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Client: Anchor QEA, LLC.

Project: 120891-01.01 City of Kenmore Sediments

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AV

Signature


November-28-2012
Date

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Signature

November-28-2012
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 12, 2012

Cindy Fields
Anchor QEA
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: Client Project: City of Kenmore Sediment, 120891-01.01
ARI Job No.: VR82

Dear Cindy:

Please find enclosed the Chain of Custody record (COC), sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro", written over a horizontal line.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile: VR82

Enclosures

Chain of Custody Documentation

ARI Job ID: VR82

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **V82** Turn-around Requested: **5TA**
 ARI Client Company: **Anchor QEA** Phone: **206 287-9130**
 Client Contact: **David Gillingham / Cindy Fields**
 Client Project Name: **City of Kenmore Sediments**
 Client Project #: **120891-01.01** Samplers: **PG R.H**

Page: **1** of **1**
 Date: **11/9/12** Ice Present? **Y**
 No. of Coolers: **5** Cooler Temps: **0.4-82.1**

Analysis Requested:
 Grain Size
 TS/VS/TOC
 metals
 SVOC
 PAH/SIM
 PCB
 Pest
 D/Fs
 TBT
 TBT
 Pore Water
 TBT Archive
 Bulk Archive

Sample ID	Date	Time	Matrix	No. Containers	Grain Size	TS/VS/TOC	metals	SVOC	PAH/SIM	PCB	Pest	D/Fs	TBT	TBT	Pore Water	TBT Archive	Bulk Archive	Notes/Comments
SG-01-S-C-1211	11/8/12		Sed	6	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-02-S-C-1211	11/8/12	0815	Sed	9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-03-S-C-1211		0848		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-04-S-C-1211		0941		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-05-S-C-1211		1028		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-06-S-C-1211		1112		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-07-S-C-1211		1218		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-07-S-C-dup-1211		1218		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-08-S-C-1211		1305		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
SG-09-S-C-1211		1347		9	X	X	X	X	X	X	X	X	X	X	X	X	X	Archive
Comments/Special Instructions	Relinquished by: David Gillingham (Signature) David Gillingham (Printed Name) Received by: Janifer M. Kepp (Signature) Janifer M. Kepp (Printed Name) Company: ARI Date & Time: 11/8/12 1520																	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Cooler Receipt Form

ARI Client: Anchor
 COC No(s): _____ (NA)
 Assigned ARI Job No: VR82

Project Name: City of Kenmore Sediments
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.4 0.6 0.5 2.1 1.9
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952
 Cooler Accepted by: JM Date: 11/8/12 Time: 1520

Complete custody forms and attach all shipping documents

Log-In Phase:



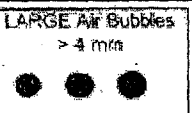
Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO
 Were all VOC vials free of air bubbles? (NA) YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI (NA)
 Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____
 Samples Logged by: JM Date: 11/9/12 Time: 821

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Subject: RE: VR82 City of Kenmore Sample Receipt and COC
From: Cindy Fields <cfields@anchorqea.com>
Date: 11/9/2012 1:37 PM
To: Cheronne Oreiro <cheronneo@arilabs.com>, Lab Data Attachments <LabDataAttachments@anchorqea.com>
CC: David Gillingham <dgillingham@anchorqea.com>

Hi Cheronne,
Could you add the day (08) to the end of all of these sample IDs?

For example, SG-01-S-C-1211 would become SG-01-S-C-121108

Thank you!

Cindy Fields
Scientist
ANCHOR QEA, LLC
cfields@anchorqea.com
D 206.903.3394

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-----Original Message-----

From: Cheronne Oreiro [<mailto:cheronneo@arilabs.com>]
Sent: Friday, November 09, 2012 10:32 AM
To: Lab Data Attachments
Subject: VR82 City of Kenmore Sample Receipt and COC

--
Cheronne Oreiro
Project Manager
Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168-3240
cheronneo@arilabs.com
(206)-695-6214

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If you have received this correspondence in error, please notify sender immediately. Thank you.

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: VR82



Case Narrative

Client: Anchor QEA

Project: City of Kenmore Sediment, 120891-01.01

ARI Job No.: VR82

Sample receipt

Nine sediment samples were received on November 8, 2012 under ARI job VR82. Select sample containers were archived upon receipt. The cooler temperatures measured by IR thermometer following ARI SOP were between 0.4 and 2.1°C. For further details regarding sample receipt, please refer to the Cooler Receipt Form.

Select samples were extracted for pore water. The pore waters were analyzed for TBT as requested. All pore water results have been reported under a separate cover.

Semivolatiles by SW8270

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial calibrations were within method requirements.

The continuing calibration fell outside the 20% control limit low for Hexachlorobutadiene, and was out high for Phenol, 4-Methylphenol, and 1,2,4-Trichlorobenzene. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

Bis(2-Ethylhexyl)phthalate was present in **MB-111412** at a level that was greater than ½ the reporting limit. All detected results for this compound have been flagged with a "B" qualifier. No further corrective action was taken.

The LCS percent recoveries were within control limits.

The matrix spike duplicate percent recovery of 2,4-Dimethylphenol fell outside advisory control limits low with a wide RPD for sample **SG-04-S-C-121108**. No corrective action is required for matrix QC.



Dioxins/Furans by 1613B

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Analysis was performed using the application specific RTX-Dioxin 2 column, which has a unique isomer separation for the 2378-TCDF, eliminating the need for second column confirmation.

Initial and continuing calibration results were within method requirements.

Both extraction and cleanup surrogates had recoveries within control limits.

The method blank contained reportable responses below the reporting limit for several compounds. "B" qualifiers were applied to associated results that were less than ten times the levels found in the method blank. No further corrective action was taken.

The OPR (Ongoing Precision and Accuracy or LCS) percent recoveries were within control limits. SRM PSR was analyzed as a reference material.

Specific results have been "EMPC"-flagged indicating a response not meeting requirements of positive identification. The EMPC values are treated as undetects under some programs and as hits under programs with more conservative protocols.

Select results have has been flagged with an "X" on the Form I's due to indication of a co-eluting PDBE.

The TEQ is presented with WHO2005 with ND=0 for undetects and ND=1/2 for undetects, with EMPCs included as hits.

Pesticides by SW8081

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial calibrations were within method requirements.

The continuing calibration (CCAL) on 11/30/12 at 16:17 was outside the 20% control limit high for 4,4'-DDD and Hexachlorobenzene on the second column, but were within the control limit on the first column. The DDT break down on 11/30/12 at 19:15 was outside the 20% control limit. The associated CCAL on 11/30/12 at 19:32 was outside the control limit high for 4,4'-DD on the first column and was out of control for several compounds on the second column. The DDT break down on 11/30/12 21:37 was outside the control limit. The associated CCAL on 11/30/12 at 22:13 was outside the control limit for several compounds on both columns. The samples were analyzed twice and both runs had similar QC failure. Only the second analysis data have been reported. No further corrective action was taken.



Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recoveries were within control limits.

Several matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits for sample **SG-08-S-C-121108**. No corrective action is required for matrix QC.

Aroclor PCBs by SW8082

The samples were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits. SRM PSR was analyzed as a reference material.

Metals and Mercury by SW6010C/6020/7471A

Samples were batched with ARI job VR58. The samples were digested and analyzed within recommended holding times.

The third continuing calibration verification (CCV) for mercury fell outside the control limits low. No sample results were associated with this CCV, no corrective action was taken.

The fourth, fifth, and sixth CCVs for antimony were outside the control limits high. No sample results were associated with these CCVs. No corrective action was taken.

The seventh and eighth CCV for chromium, nickel, and zinc were outside the control limits. No sample results were associated with these CCVs. No corrective action was taken.

The method blanks were clean at the reporting limits. The LCS percent recoveries were within control limits.



General Chemistry Parameters

The samples were prepared and analyzed within the method recommended holding times.

The method blanks were clean at the reporting limits. The LCS percent recovery was within control limits.

The SRM percent recovery was within limits.

Geotechnical Parameters

A laboratory-specific case narrative follows this page.



Client: Anchor QEA, LLC.

ARI Job No.: VR82

Client Project: City of Kenmore Sediments

Client Project No.: 120891-01.01

Case Narrative

1. Nine samples were submitted for testing on November 9, 2012 and were in good condition.
2. The samples were submitted for pore water extraction by the United States Army Corp of Engineers draft interim guidelines. One sample was chosen by the client for MS/MSD. The sediment for pore water extraction was placed in the nitrogen chamber along with centrifuge bottles, spoons and a balance. The chamber was sealed and filled with nitrogen. The centrifuge jars were opened to allow them to come to equilibrium with the chamber. The oxygen level in the chamber was less than 1%. All centrifuge bottles were decontaminated, pre-rinsed with hexane and allowed to dry completely. All spoons were decontaminated, pre-rinsed with dichloromethane and allowed to air dry completely. All samples were centrifuged in a pre-cooled centrifuge (4°C) at 3,000 x g for 30 minutes, decanted in the nitrogen chamber, and then placed in another pre-cooled centrifuge (4°C) and spun at 7,000-x g for 30 minutes. Some of the samples had "floaters," material that was floating on the top (or within the water) and could not be separated by centrifuging.
3. The samples were submitted for grain size analysis by Puget Sound Estuary Protocol (PSEP) methodology. The samples were run in a single batch and one sample, SG-06-S-C-1211, was chosen for triplicate analysis. The triplicate data is reported on the QA Summary. One sample did not contain the required 5 grams of fines for the pipette portion of the analysis. The analytical balance has a capacity of about 200 grams (by 0.0001 grams) and a sample that would yield 5 grams of fines could not be split and stay within the capacity of the balance. This sample has been qualified on the QA summary.
4. The data is provided in summary tables and plots.
5. There were no other anomalies in the samples or methods on this project.

Released by: _____
Title: _____

Guena Curtis
Geotechnical Laboratory Manager

Date: _____

11/26/12

Reviewed by: _____
Title: _____

[Signature]
Lead Technician

Date: _____

11.26.2012

Sample ID Cross Reference Report



ARI Job No: VR82
Client: Anchor QEA, LLC.
Project Event: 120891-01.01
Project Name: City of Kenmore Sediments

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SG-02-S-C-121108	VR82A	12-22479	Sediment	11/08/12 08:15	11/08/12 15:20
2. SG-03-S-C-121108	VR82B	12-22480	Sediment	11/08/12 08:48	11/08/12 15:20
3. SG-04-S-C-121108	VR82C	12-22481	Sediment	11/08/12 09:41	11/08/12 15:20
4. SG-05-S-C-121108	VR82D	12-22482	Sediment	11/08/12 10:28	11/08/12 15:20
5. SG-06-S-C-121108	VR82E	12-22483	Sediment	11/08/12 11:12	11/08/12 15:20
6. SG-07-S-C-121108	VR82F	12-22484	Sediment	11/08/12 12:18	11/08/12 15:20
7. SG-07-S-C-dup-121108	VR82G	12-22485	Sediment	11/08/12 12:18	11/08/12 15:20
8. SG-08-S-C-121108	VR82H	12-22486	Sediment	11/08/12 13:05	11/08/12 15:20
9. SG-09-S-C-121108	VR82I	12-22487	Sediment	11/08/12 13:42	11/08/12 15:20



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when **only** sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

Analyte	Full Scan Analysis			SIM Analysis			LCS,MS Control Limits (%)	RPD ²
	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)		
Phenol	8.65	10	20	2.56	5	5	30 – 160	≤ 40
bis-(2-Chloroethyl)ether	3.35	10	20	--	--	--	30 – 160	≤ 40
2-Chlorophenol	2.39	10	20	--	--	--	30 – 160	≤ 40
1,3-Dichlorobenzene	2.63	10	20	1.31	2.5	5	30 – 160	≤ 40
1,4-Dichlorobenzene	2.86	10	20	1.19	2.5	5	30 – 160	≤ 40
1,2-Dichlorobenzene	2.50	10	20	1.10	2.5	5	30 – 160	≤ 40
Benzyl alcohol	6.09	10	20	7.04	10	20 ³	30 – 160	≤ 40
2,2'-oxy-bis-(1-Chloropropane)	3.76	10	20	--	--	--	30 – 160	≤ 40
2-Methylphenol	5.25	10	20	1.81	2.5	5	30 – 160	≤ 40
Hexachloroethane	2.94	10	20	--	--	--	30 – 160	≤ 40
N-Nitroso-di-n-propylamine	3.36	10	20	9.48	10	12 ³	30 – 160	≤ 40
4-Methylphenol ⁶	6.63	10	20	2.52	5	10	30 – 160	≤ 40
Nitrobenzene	4.06	10	20	--	--	--	30 – 160	≤ 40
Isophorone	2.86	10	20	--	--	--	30 – 160	≤ 40
2-Nitrophenol	38.7	50	100	--	--	--	30 – 160	≤ 40
2,4-Dimethylphenol	3.46	20	40	2.89	10	20	30 – 160	≤ 40
bis-(2-Chloroethoxy)methane	2.00	10	20	--	--	--	30 – 160	≤ 40
2,4-Dichlorophenol	21.5	100	200	--	--	--	30 – 160	≤ 40
1,2,4-Trichlorobenzene	3.48	10	20	1.86	2.5	5	30 – 160	≤ 40
Naphthalene	2.76	10	20	--	--	--	30 – 160	≤ 40
Benzoic acid	101	200	400 ⁵	--	--	--	30 – 160	≤ 40
4-Chloroaniline	22.3	135	270 ⁴	--	--	--	30 – 160	≤ 40
Hexachlorobutadiene	4.57	10	20	0.96	2.5	5	30 – 160	≤ 40
4-Chloro-3-methylphenol	15.1	50	100	--	--	--	30 – 160	≤ 40
2-Methylnaphthalene	3.06	10	20	--	--	--	30 – 160	≤ 40
Hexachlorocyclopentadiene	66.4	200	400 ⁴	--	--	--	30 – 160	≤ 40
2,4,6-Trichlorophenol	22.4	50	100	--	--	--	30 – 160	≤ 40
2,4,5-Trichlorophenol	21.4	50	100	--	--	--	30 – 160	≤ 40
2-Chloronaphthalene	2.64	10	20	--	--	--	30 – 160	≤ 40
2-Nitroaniline	18.4	50	100	--	--	--	30 – 160	≤ 40
Acenaphthylene	5.71	10	20	--	--	--	30 – 160	≤ 40
Dimethylphthalate	2.90	10	20	1.34	2.5	5	30 – 160	≤ 40
2,6-Dinitrotoluene	30.6	50	100	--	--	--	30 – 160	≤ 40
Acenaphthene	3.28	10	20	--	--	--	30 – 160	≤ 40
3-Nitroaniline	22.5	50	100	--	--	--	30 – 160	≤ 40



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

Analyte	Full Scan Analysis			SIM Analysis			LCS,MS Control Limits (%)	RPD ²
	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)		
2,4-Dinitrophenol	111	425	850 ⁴	--	--	--	30 – 160	≤ 40
Dibenzofuran	4.10	10	20	--	--	--	30 – 160	≤ 40
4-Nitrophenol	34.7	50	100	--	--	--	30 – 160	≤ 40
2,4-Dinitrotoluene	19.5	50	100	--	--	--	30 – 160	≤ 40
Fluorene	4.35	10	20	--	--	--	30 – 160	≤ 40
4-Chlorophenyl-phenylether	5.29	10	20	--	--	--	30 – 160	≤ 40
Diethylphthalate	36.6	50	50 ³	3.26	5.0	5.0	30 – 160	≤ 40
4-Nitroaniline	37.9	50	100	--	--	--	30 – 160	≤ 40
4,6-Dinitro-2-methylphenol	21.2	100	200	--	--	--	30 – 160	≤ 40
N-Nitrosodiphenylamine	5.39	10	20	1.38	10	20	30 – 160	≤ 40
4-Bromophenyl-phenylether	5.03	10	20	--	--	--	30 – 160	≤ 40
Hexachlorobenzene	4.29	10	20	1.26	2.5	5	30 – 160	≤ 40
Pentachlorophenol	48.5	100	200 ⁴	14.3	25	50	30 – 160	≤ 40
Phenanthrene	3.64	10	20	--	--	--	30 – 160	≤ 40
Anthracene	4.50	10	20	--	--	--	30 – 160	≤ 40
Carbazole	2.69	10	20	--	--	--	30 – 160	≤ 40
Di-n-butylphthalate	8.16	10	20	--	--	--	30 – 160	≤ 40
Fluoranthene	2.91	10	20	--	--	--	30 – 160	≤ 40
Pyrene	1.94	10	20	--	--	--	30 – 160	≤ 40
Butylbenzylphthalate	6.14	10	20	2.89	5.0	5	30 – 160	≤ 40
Benzo(a)anthracene	3.29	10	20	--	--	--	30 – 160	≤ 40
3,3'-Dichlorobenzidine	17.8	75	150 ⁴	--	--	--	30 – 160	≤ 40
Chrysene	3.75	10	20	--	--	--	30 – 160	≤ 40
bis-(2-Ethylhexyl)phthalate	14.6	20	25 ³	--	--	--	30 – 160	≤ 40
Di-n-octylphthalate	5.84	10	20	--	--	--	30 – 160	≤ 40
Benzo(b)fluoranthene ⁷	3.47	10	20	--	--	--	30 – 160	≤ 40
Benzo(k)fluoranthene ⁷	4.18	10	20	--	--	--	30 – 160	≤ 40
Benzo(a)fluoranthene ⁷	6.67	20	40	--	--	--	30 – 160	≤ 40
Benzo(a)pyrene	5.45	10	20	--	--	--	30 – 160	≤ 40
Indeno(1,2,3-cd)pyrene	4.68	10	20	--	--	--	30 – 160	≤ 40
Dibenzo(a,h)anthracene	4.31	10	20	2.02	2.5	5	30 – 160	≤ 40
Benzo(g,h,i)perylene	4.40	10	20	--	--	--	30 – 160	≤ 40
N-Nitrosodimethylamine	14.1	50	100	3.15	13	25	30 – 160	≤ 40
Aniline	40.0	270	540 ⁴	--	--	--	30 – 160	≤ 40
Pyridine	32.7	75	150 ⁴	--	--	--	30 – 160	≤ 40
1-Methylnaphthalene	2.68	10	20	--	--	--	30 – 160	≤ 40



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

Analyte	Full Scan Analysis			SIM Analysis			LCS, MS Control Limits (%)	RPD ²
	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	DL (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)		
Azobenzene (1,2-DP-Hydrazine)	2.98	10	20	--	--	--	30 – 160	≤ 40
Surrogate Standards						MB / LCS	Samples	RPD
2-Fluorophenol						30 – 160	30 – 160	≤ 40
Phenol-d ₅						30 – 160	30 – 160	≤ 40
2-Chlorophenol-d ₄						30 – 160	30 – 160	≤ 40
1,2-Dichlorobenzene-d ₄						30 – 160	30 – 160	≤ 40
Nitrobenzene-d ₅						30 – 160	30 – 160	≤ 40
2-Fluorobiphenyl						30 – 160	30 – 160	≤ 40
2,4,6-Tribromophenol						30 – 160	30 – 160	≤ 40
p-Terphenyl-d ₁₄						30 – 160	30 – 160	≤ 40

(1) Detection Limit (DL), Limit of Detection (LOD), Limit of Quantitation (LOQ) are defined in ARI SOP 1018S

(2) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$

(3) Spiked at 5 ppb

(4) Spiked at 100 ppb

(5) Spiked at 200 ppb

(6) 3-Methylphenol (not calibrated) co-elutes with 4-Methylphenol (calibrated)

(7) Benzo(b)fluoranthene and Benzo(k)fluoranthene are reported as separate analytes only when the height of the valley between the isomer peaks is less than than 50% of the average of the two peak heights, otherwise total Benzofluoranthenes are reported.

(8) Benzo(b)fluoranthene + Benzo(j)fluoranthene + Benzo(k)fluoranthene (only the b & k isomers are calibrated)



DL¹, LOD¹, LOQ¹ and Control Limits Summary
Analysis of Sediment Samples for Dioxins & Furans
EPA Method 1613B

Soxhlet (EPA Method 3540C) Extraction using 10 g sample with extract concentrated to 0.02 mL final volume. ARI Bench Sheet 3083F

LOD Spike level = LOQ = 0.1 ppt (ng/kg) = 1 pg/g

Analyte	DL ¹ pg/g	LOD ¹ pg/g	LOQ ¹ pg/g	OPR Control Limit ^{2,3}	Sample Replicate RPD ^{3,4}
2,3,7,8-TCDF	0.230	0.5	1	75 – 158	≤ 25
2,3,7,8-TCDD	0.274	0.5	1	67 – 158	≤ 25
1,2,3,7,8-PeCDF	0.832	2.5	2.5	80 – 134	≤ 25
2,3,4,7,8-PeCDF	1.076	2.5	1	68 – 160	≤ 25
1,2,3,7,8-PeCDD	0.647	2.5	1	70 – 142	≤ 25
1,2,3,4,7,8-HxCDF	0.991	2.5	2.5	72 – 134	≤ 25
1,2,3,6,7,8-HxCDF	0.769	2.5	2.5	84 – 130	≤ 25
2,3,4,6,7,8-HxCDF	0.904	2.5	2.5	70 – 156	≤ 25
1,2,3,7,8,9-HxCDF	0.857	2.5	2.5	78 – 130	≤ 25
1,2,3,4,7,8-HxCDD	0.481	2.5	2.5	70 – 164	≤ 25
1,2,3,6,7,8-HxCDD	0.561	2.5	2.5	76 – 134	≤ 25
1,2,3,7,8,9-HxCDD	0.886	2.5	2.5	64 – 162	≤ 25
1,2,3,4,6,7,8-HpCDF	1.165	2.5	2.5	82 – 122	≤ 25
1,2,3,4,7,8,9-HpCDF	0.688	2.5	2.5	78 – 138	≤ 25
1,2,3,4,6,7,8-HpCDD	0.828	2.5	2.5	70 – 140	≤ 25
OCDF	2.176	5.0	5	63 – 170	≤ 25
OCDD	7.452	5.0	5	78 – 144	≤ 25

(1) Detection Limit (DL), Limit of Detection (LOD) and Limit of Quantitation (LOQ) are defined in ARI SOP 1018S

(2) Ongoing precision and recovery (OPR) analyzes as specified in the referenced method.

(3) Method specified control limits.

(4) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$



DL ¹ , LOD ¹ , LOQ ¹ and Control Limits Summary Analysis of Soil/Sediment Samples for Chlorinated Pesticides EPA Method 8081B					
Microwave (EPA Method 3546) Extraction using 12.5g (dry weight) sample with extract concentrated to 2.5 mL final volume. ARI Bench Sheet 3046F					
LOD Spike level = LOQ Concentration					
Analyte	DL ^{1,2} µg/kg	LOD ¹ µg/kg	LOQ ¹ µg/kg	LCS Control Limit ^{3,4}	Replicate RPD ⁵
alpha-BHC	0.081	0.25	0.5	68 – 115	≤ 40
beta-BHC	0.139	0.25	0.5	60 – 126	≤ 40
gamma-BHC (Lindane)	0.048	0.25	0.5	68 – 134	≤ 40
delta-BHC	0.082	0.25	0.5	71 – 154	≤ 40
Heptachlor	0.132	0.25	0.5	66 – 115	≤ 40
Aldrin	0.055	0.25	0.5	66 – 115	≤ 40
Heptachlor Epoxide	0.085	0.25	0.5	65 – 127	≤ 40
trans-Chlordane (beta-Chlordane, gamma-Chlordane)	0.077	0.25	0.5	73 – 136	≤ 40
cis-Chlordane (alpha-chlordane)	0.051	0.25	0.5	77 – 124	≤ 40
Endosulfan I	0.072	0.25	0.5	28 – 100	≤ 40
4,4'-DDE	0.124	0.5	1.0	71 – 149	≤ 40
Dieldrin	0.100	0.5	1.0	74 – 131	≤ 40
Endrin	0.215	0.5	1.0	72 – 135	≤ 40
Endosulfan II	0.116	0.5	1.0	37 – 110	≤ 40
4,4'-DDD	0.135	0.5	1.0	76 – 137	≤ 40
Endrin Aldehyde	0.218	0.5	1.0	38 – 109	≤ 40
4,4'-DDT	0.192	0.5	1.0	58 – 144	≤ 40
Endosulfan Sulfate	0.192	0.5	1.0	47 – 148	≤ 40
Endrin Ketone	0.119	0.5	1.0	29 – 165	≤ 40
Methoxychlor	0.698	2.5	5.0	65 – 123	≤ 40
Hexachlorobutadiene	0.138	0.5	1.0	43 – 104	≤ 40
Hexachlorobenzene	0.094	0.5	1.0	62 – 119	≤ 40
Surrogate Standard Recovery			MB / LCS	Samples	RPD
Tetrachloro- <i>m</i> -xylene (TCMX)			47 – 124	34 – 169	≤ 40
Decachlorobiphenyl			60 – 149	36 – 182	≤ 40

(1) Detection Limit (DL), Limit of Detection (LOD) and Limit of Quantitation as defined in ARI SOP 1018S.

(2) MDL study QZ38

(3) Highlighted control limits (**bold font**) are adjusted from the calculated values to reflect that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(4) Control limits calculated using all data from 1/1/12 through 7/31/12.

(5) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$



Quality Control Criteria for Analysis of Solid
Matrix Samples for Aroclors
(Polychlorinated Biphenyls – PCB)
EPA Method 8082B

Analysis Code	Extraction	DL ¹ (ppb)	LOD ¹ (ppb)	LOQ ¹ (ppb)	Analyte	Spike Recovery Control Limits (%) ^{2,3,8}			RPD ⁴
						LCS	MB/LCS Surrogate	Sample Surrogate	
Soil / Sediment Samples (Microwave Extraction – EPA Method 3546)									
PCBSMI 15-3067F	12g to 4 mL	9.83	17	33	Aroclor 1016	55 – 109	--	--	≤ 40
		7.06	17	33	Aroclor 1260	50 – 125	--	--	
PCBSCI 08-3025F		--	--	--	TCMX	--	53 – 108	39 – 122	
		--	--	--	DCBP	--	49 – 126	31 – 140	
PCBDMP20 05-3017F	12.5 g to 2.5 mL ⁶	9.33	10	20 ⁶	Aroclor 1016	46 – 110	--	--	≤ 40
		10.82	15	20 ⁶	Aroclor 1260	47 – 124	--	--	
PCBDMP20 06-3026F		--	--	--	TCMX	--	43 – 107	34 – 109	
		--	--	--	DCBP	--	48 – 123	24 – 127	
PCBDMP10 05-3017F	12.5 g to 2.5 mL ⁶	0.759	5	10 ⁶	Aroclor 1016	46 – 110	--	--	≤ 40
		1.066	5	10 ⁶	Aroclor 1260	47 – 124	--	--	
PCBDMP10 06-3026F		--	--	--	TCMX	--	43 – 107	34 – 109	
		--	--	--	DCBP	--	48 – 123	24 – 127	
PCBDMP4 05-3017F	12.5 g to 2.5 mL ⁶	0.577	2	4 ⁶	Aroclor 1016	46 – 110	--	--	≤ 40
		0.610	2	4 ⁶	Aroclor 1260	47 – 124	--	--	
PCBDMP4 06-3026F		--	--	--	TCMX	--	43 – 107	34 – 109	
		--	--	--	DCBP	--	48 – 123	24 – 127	
Soil / Sediment Samples Medium Level (Vortex Extraction – EPA Method 3546)									
PCBSVX 12-3019F	5 g to 40 mL	109 ⁷	400	800	Aroclor 1016	30 – 160	--	--	≤ 40
		192 ⁷	400	800	Aroclor 1260	30 – 160	--	--	
		--	--	--	TCMX	--	30 – 160	30 – 160	
		--	--	--	DCBP	--	30 – 160	30 – 160	

(1) Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) are defined in ARI SOP 1018S.

(2) Highlighted control limits (**bold font**) are adjusted from the calculated values to reflect that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(3) 30 – 160 are default limits used when there is insufficient data to calculate historic control limits

(4) Acceptance criteria for the relative percent difference (RPD) between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$

(6) LOQ determined by lowest concentration used to calibrate the GC-ECD instrument.

(7) MDL Study PC66 6/24/09

(8) Control Limits calculated using all data generated between 1/1/11 and 11/30/11



Quality Control Parameters for Metals Analysis-ICP-OES 200.7/6010C

Analyte	Aqueous Samples ²			Spike Recovery		RPD ⁵	Solids ³	Tissue ⁴
	DL ¹ µg/L	LOD ¹ µg/L	LOQ ¹ µg/L	Matrix Spike	LCS		LOQ mg/kg	LOQ mg/kg
Aluminum	7.57	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Antimony	6.28	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Arsenic	3.33	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Barium	1.33	1.5	3.0	75 – 125	80 – 120	≤ 20	0.3	0.06
Beryllium	0.16	0.5	1.0	75 – 125	80 – 120	≤ 20	0.1	0.02
Boron	7.39	10	20	75 – 125	80 – 120	≤ 20	2.0	0.4
Cadmium	0.18	0.5	2.0	75 – 125	80 – 120	≤ 20	0.2	0.04
Calcium	11.27	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Chromium	1.24	2.5	5.0	75 – 125	80 – 120	≤ 20	0.5	0.1
Cobalt	0.27	1.5	3.0	75 – 125	80 – 120	≤ 20	0.3	0.06
Copper	0.92	1.0	2.0	75 – 125	80 – 120	≤ 20	0.2	0.04
Iron	7.50	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Lead	1.55	10	20	75 – 125	80 – 120	≤ 20	2.0	0.4
Magnesium	9.61	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Manganese	0.28	0.5	1.0	75 – 125	80 – 120	≤ 20	0.1	0.02
Molybdenum	0.79	2.5	5.0	75 – 125	80 – 120	≤ 20	0.5	0.1
Nickel	3.86	5.0	10	75 – 125	80 – 120	≤ 20	1.0	0.2
Potassium	65.70	250	500	75 – 125	80 – 120	≤ 20	50	10
Selenium	4.99	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Silicon	8.17	30	60	75 – 125	80 – 120	≤ 20	(6)	(6)
Silver	0.43	1.5	3.0	75 – 125	80 – 120	≤ 20	0.3	0.06
Sodium	11.35	250	500	75 – 125	80 – 120	≤ 20	50	10
Strontium	0.09	1.0	1.0	75 – 125	80 – 120	≤ 20	0.1	0.02
Thallium	3.10	25	50	75 – 125	80 – 120	≤ 20	5.0	1.0
Tin	1.41	5.0	10	75 – 125	80 – 120	≤ 20	1.0	0.2
Titanium	2.11	2.5	5.0	75 – 125	80 – 120	≤ 20	0.5	0.01
Vanadium	0.27	1.5	3.0	75 – 125	80 – 120	≤ 20	0.3	0.06
Zinc	1.45	5.0	10	75 – 125	80 – 120	≤ 20	1.0	0.2

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 50 mL sample and 50 mL final volume

(3) Solids LOQ based on 100% solids using 1.0 g sample with 100 mL final volume.

(4) Tissue is reported on an "as received" (wet weight) basis using 2.5 g sample with 50 mL final volume.

(5) Relative Percent Difference between analytes in replicate analyzes. If C_o and C_D are the concentrations of the

original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(6) ARI does not analyze for Silicon in solids or tissue samples



Quality Control Parameters for Metals Analysis ICP-MS 200.8/6020A								
Analyte	Mass	Aqueous Samples ²			Spike Recovery		RPD ⁴	Solids ³
		DL ¹ µg/L	LOD ¹ µg/L	LOQ ¹ µg/L	Matrix Spike	LCS		LOQ ¹ mg/kg
Aluminum	27	1.601	10	20.0	75 – 125	80 – 120	≤ 20	20.0
Antimony	121	0.010	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
	123	0.011	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Arsenic #1	75	0.048	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Arsenic #2	75	0.092	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Barium	135	0.020	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
	137	0.019	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Beryllium	9	0.021	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Cadmium	111	0.010	0.05	0.1	75 – 125	80 – 120	≤ 20	0.1
	114	0.005	0.05	0.1	75 – 125	80 – 120	≤ 20	0.1
Calcium	43	3.983	25	50.0	75 – 125	80 – 120	≤ 20	50.0
Chromium	52	0.045	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
	53	0.118	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Cobalt	59	0.011	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Copper	63	0.158	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
	65	0.236	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Iron	54	5.753	10	20.0	75 – 125	80 – 120	≤ 20	20.0
	57	3.876	10	20.0	75 – 125	80 – 120	≤ 20	20.0
Lead	208	0.046	0.05	0.1	75 – 125	80 – 120	≤ 20	0.1
Magnesium	24	0.297	10	20.0	75 – 125	80 – 120	≤ 20	20.0
Manganese	55	0.022	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Molybdenum	98	0.013	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Nickel	60	0.079	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
	62	0.089	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
Potassium	39	2.944	10	20.0	75 – 125	80 – 120	≤ 20	20.0
Selenium	82	0.127	0.25	0.5	75 – 125	80 – 120	≤ 20	0.5
	78	0.324	0.25	2.0	75 – 125	80 – 120	≤ 20	2.0
Silver	107	0.008	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Sodium	23	2.833	50	100.0	75 – 125	80 – 120	≤ 20	100.0
Thorium ⁵	232	0.013	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Thallium	205	0.004	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Uranium ⁵	238	0.003	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Vanadium	51	0.043	0.1	0.2	75 – 125	80 – 120	≤ 20	0.2
Zinc	66	0.497	2	4.0	75 – 125	80 – 120	≤ 20	4.0
	67	0.531	2	4.0	75 – 125	80 – 120	≤ 20	4.0
	68	0.524	2	4.0	75 – 125	80 – 120	≤ 20	4.0

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 50 mL sample and 50 mL final volume

(3) Solids LOQ based on 100% solids using 1.0 g sample with 100 mL final volume.

(4) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the

original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$



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(5) ARI has no accreditation for these elements.



Quality Control Parameters for Mercury Analysis using CVAA						
	Aqueous Samples²			Spike Recovery		RPD⁵
	DL¹ µg/L	LOD¹ µg/L	LOQ¹ µg/L	Matrix Spike	LCS	
Mercury	0.0069	0.05	0.10²	75 – 125	80 – 120	≤ 20
Mercury (low level)	0.0026	0.01	0.02²	75 – 125	80 – 120	≤ 20
	Soil / Sediment Samples			Spike Recovery		RPD⁵
	DL¹ mg/kg	LOD¹ mg/kg	LOQ¹ mg/kg	Matrix Spike	LCS	
Mercury	0.0021	0.0125	0.025 ³	75 – 125	80 – 120	≤ 20
	Tissue Samples			Spike Recovery		RPD⁵
	DL¹ mg/kg	LOD¹ mg/kg	LOQ¹ mg/kg	Matrix Spike	LCS	
Mercury	0.0021	0.0125	0.005 ⁴	75 – 125	80 – 120	≤ 20

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 20 mL sample with 20 mL final volume

(3) 0.2 g sample with 50 mL final volume assuming 100% dry weight. Soil and sediment are reported on a dry weight basis.

(4) Tissue LOQ is 0.005 mg/kg as received (wet weight) based on 1 g sample with 50 mL final volume.

(5) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_O - C_D|}{\frac{C_O + C_D}{2}} \times 100$$



Spike Recovery Control Limits for Conventional Wet Chemistry		
Effective 5/1/09		
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip		
Sample Matrix:	ARI's Control Limits	
	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**Semivolatile Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-02-S-C-121108
SAMPLE

Lab Sample ID: VR82A
 LIMS ID: 12-22479
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 14:00
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 73.0%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.4	19	< 19 U
541-73-1	1,3-Dichlorobenzene	2.6	19	< 19 U
106-46-7	1,4-Dichlorobenzene	2.8	19	< 19 U
100-51-6	Benzyl Alcohol	5.9	19	82
95-50-1	1,2-Dichlorobenzene	2.4	19	< 19 U
95-48-7	2-Methylphenol	5.1	19	< 19 U
106-44-5	4-Methylphenol	6.4	39	74 Q
67-72-1	Hexachloroethane	2.9	19	< 19 U
105-67-9	2,4-Dimethylphenol	3.4	19	< 19 UJ
65-85-0	Benzoic Acid	98	390	960
120-82-1	1,2,4-Trichlorobenzene	3.4	19	< 19 U
91-20-3	Naphthalene	2.7	19	83
87-68-3	Hexachlorobutadiene	4.4	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	19	31
131-11-3	Dimethylphthalate	2.8	19	28
208-96-8	Acenaphthylene	5.5	19	22
83-32-9	Acenaphthene	3.2	19	320
132-64-9	Dibenzofuran	4.0	19	30
84-66-2	Diethylphthalate	36	49	< 49 U
86-73-7	Fluorene	4.2	19	98
86-30-6	N-Nitrosodiphenylamine	5.2	19	< 19 U
118-74-1	Hexachlorobenzene	4.2	19	< 19 U
87-86-5	Pentachlorophenol	47	190	< 190 U
85-01-8	Phenanthrene	3.5	19	170
120-12-7	Anthracene	4.4	19	66
84-74-2	Di-n-Butylphthalate	7.9	19	< 19 U
206-44-0	Fluoranthene	2.8	19	480
129-00-0	Pyrene	1.9	19	590
85-68-7	Butylbenzylphthalate	6.0	19	32
56-55-3	Benzo (a) anthracene	3.2	19	210
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	680 B
218-01-9	Chrysene	3.6	19	440
117-84-0	Di-n-Octyl phthalate	5.7	19	< 19 U
50-32-8	Benzo (a) pyrene	5.3	19	190
193-39-5	Indeno (1,2,3-cd) pyrene	4.5	19	140
53-70-3	Dibenz (a,h) anthracene	4.2	19	67
191-24-2	Benzo (g,h,i) perylene	4.3	19	170
90-12-0	1-Methylnaphthalene	2.6	19	21
TOTBFA	Total Benzofluoranthenes	2.7	39	530

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	69.0%
d14-p-Terphenyl	78.0%	d4-1,2-Dichlorobenzene	59.4%
d5-Phenol	67.1%	2-Fluorophenol	58.8%
2,4,6-Tribromophenol	76.9%	d4-2-Chlorophenol	65.6%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
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Sample ID: SG-03-S-C-121108
SAMPLE

Lab Sample ID: VR82B
 LIMS ID: 12-22480
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 14:36
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 75.2%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	110 Q
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	130
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.2	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	76 Q
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	1,300
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	58
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	25
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	16 J
83-32-9	Acenaphthene	3.2	20	33
132-64-9	Dibenzofuran	4.0	20	35
84-66-2	Diethylphthalate	36	49	38 J
86-73-7	Fluorene	4.3	20	46
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	190
120-12-7	Anthracene	4.4	20	68
84-74-2	Di-n-Butylphthalate	8.0	20	9.8 J
206-44-0	Fluoranthene	2.9	20	410
129-00-0	Pyrene	1.9	20	440
85-68-7	Butylbenzylphthalate	6.0	20	32
56-55-3	Benzo (a) anthracene	3.2	20	190
117-81-7	bis (2-Ethylhexyl) phthalate	14	25	510 B
218-01-9	Chrysene	3.7	20	340
117-84-0	Di-n-Octyl phthalate	5.7	20	58 M
50-32-8	Benzo (a) pyrene	5.4	20	160
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	110
53-70-3	Dibenz (a,h) anthracene	4.2	20	55
191-24-2	Benzo (g,h,i) perylene	4.3	20	130
90-12-0	1-Methylnaphthalene	2.6	20	9.8 J
TOTBFA	Total Benzofluoranthenes	2.7	39	420

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.6%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	78.4%	d4-1,2-Dichlorobenzene	61.0%
d5-Phenol	70.0%	2-Fluorophenol	66.5%
2,4,6-Tribromophenol	78.9%	d4-2-Chlorophenol	69.1%

FORM I

VR82-00028

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-04-S-C-121108
SAMPLE

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 15:13
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 15.8%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	< 20 U
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	< 20 U
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.1	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	< 39 U
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	< 390 U
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	< 20 U
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	< 20 U
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	< 20 U
83-32-9	Acenaphthene	3.2	20	14 J
132-64-9	Dibenzofuran	4.0	20	< 20 U
84-66-2	Diethylphthalate	36	49	< 49 U
86-73-7	Fluorene	4.3	20	14 J
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	140
120-12-7	Anthracene	4.4	20	26
84-74-2	Di-n-Butylphthalate	8.0	20	< 20 U
206-44-0	Fluoranthene	2.9	20	220
129-00-0	Pyrene	1.9	20	190
85-68-7	Butylbenzylphthalate	6.0	20	< 20 U
56-55-3	Benzo (a) anthracene	3.2	20	81
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	62 B
218-01-9	Chrysene	3.7	20	110
117-84-0	Di-n-Octyl phthalate	5.7	20	< 20 U
50-32-8	Benzo (a) pyrene	5.3	20	62
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	39
53-70-3	Dibenz (a, h) anthracene	4.2	20	15 J
191-24-2	Benzo (g, h, i) perylene	4.3	20	43
90-12-0	1-Methylnaphthalene	2.6	20	< 20 U
TOTBFA	Total Benzofluoranthenes	2.7	39	140

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.4%	2-Fluorobiphenyl	68.0%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	65.4%
d5-Phenol	69.3%	2-Fluorophenol	65.5%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	68.3%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
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Sample ID: SG-05-S-C-121108
SAMPLE

Lab Sample ID: VR82D
 LIMS ID: 12-22482
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 17:03
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 66.1%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	180 Q
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	160
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.1	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	74 Q
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	1,300
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	50
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	26
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	< 20 U
83-32-9	Acenaphthene	3.2	20	26
132-64-9	Dibenzofuran	4.0	20	28
84-66-2	Diethylphthalate	36	49	< 49 U
86-73-7	Fluorene	4.3	20	37
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	180
120-12-7	Anthracene	4.4	20	39
84-74-2	Di-n-Butylphthalate	8.0	20	< 20 U
206-44-0	Fluoranthene	2.9	20	310
129-00-0	Pyrene	1.9	20	300
85-68-7	Butylbenzylphthalate	6.0	20	< 20 U
56-55-3	Benzo (a) anthracene	3.2	20	110
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	260 B
218-01-9	Chrysene	3.7	20	190
117-84-0	Di-n-Octyl phthalate	5.7	20	22 M
50-32-8	Benzo (a) pyrene	5.3	20	76
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	51
53-70-3	Dibenz (a,h) anthracene	4.2	20	21
191-24-2	Benzo (g,h,i) perylene	4.3	20	63
90-12-0	1-Methylnaphthalene	2.6	20	13 J
TOTBFA	Total Benzofluoranthenes	2.7	39	220

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.0%	2-Fluorobiphenyl	65.2%
d14-p-Terphenyl	75.8%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	65.5%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	71.1%	d4-2-Chlorophenol	65.1%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-06-S-C-121108
SAMPLE

Lab Sample ID: VR82E
 LIMS ID: 12-22483
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 17:39
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 71.0%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	80 Q
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	190
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.1	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	91 Q
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	1,100
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	38
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	14 J
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	< 20 U
83-32-9	Acenaphthene	3.2	20	17 J
132-64-9	Dibenzofuran	4.0	20	< 20 U
84-66-2	Diethylphthalate	36	49	58
86-73-7	Fluorene	4.3	20	28
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	140
120-12-7	Anthracene	4.4	20	28
84-74-2	Di-n-Butylphthalate	8.0	20	< 20 U
206-44-0	Fluoranthene	2.9	20	290
129-00-0	Pyrene	1.9	20	290
85-68-7	Butylbenzylphthalate	6.0	20	57
56-55-3	Benzo (a) anthracene	3.2	20	110
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	540 B
218-01-9	Chrysene	3.7	20	190
117-84-0	Di-n-Octyl phthalate	5.7	20	41 M
50-32-8	Benzo (a) pyrene	5.3	20	120
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	81
53-70-3	Dibenz (a,h) anthracene	4.2	20	37
191-24-2	Benzo (g,h,i) perylene	4.3	20	93
90-12-0	1-Methylnaphthalene	2.6	20	< 20 U
TOTBFA	Total Benzofluoranthenes	2.7	39	300

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery


d5-Nitrobenzene	67.2%	2-Fluorobiphenyl	80.0%
d14-p-Terphenyl	86.6%	d4-1,2-Dichlorobenzene	67.4%
d5-Phenol	73.1%	2-Fluorophenol	68.9%
2,4,6-Tribromophenol	91.3%	d4-2-Chlorophenol	74.7%

FORM I

VR82: 00001

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-07-S-C-121108
SAMPLE

Lab Sample ID: VR82F
 LIMS ID: 12-22484
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 18:16
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 64.9%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	42 Q
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	120
95-50-1	1,2-Dichlorobenzene	2.4	20	< 20 U
95-48-7	2-Methylphenol	5.1	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	54 Q
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	430
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	18 J
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	< 20 U
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	< 20 U
83-32-9	Acenaphthene	3.2	20	< 20 U
132-64-9	Dibenzofuran	4.0	20	< 20 U
84-66-2	Diethylphthalate	36	49	< 49 U
86-73-7	Fluorene	4.3	20	12 J
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	72
120-12-7	Anthracene	4.4	20	18 J
84-74-2	Di-n-Butylphthalate	8.0	20	< 20 U
206-44-0	Fluoranthene	2.9	20	150
129-00-0	Pyrene	1.9	20	140
85-68-7	Butylbenzylphthalate	6.0	20	28
56-55-3	Benzo (a) anthracene	3.2	20	110
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	330 B
218-01-9	Chrysene	3.7	20	140
117-84-0	Di-n-Octyl phthalate	5.7	20	22 M
50-32-8	Benzo (a) pyrene	5.3	20	63
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	33
53-70-3	Dibenz (a,h) anthracene	4.2	20	17 J
191-24-2	Benzo (g,h,i) perylene	4.3	20	36
90-12-0	1-Methylnaphthalene	2.6	20	< 20 U
TOTBFA	Total Benzofluoranthenes	2.7	39	170

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.8%	2-Fluorobiphenyl	65.4%
d14-p-Terphenyl	74.4%	d4-1,2-Dichlorobenzene	60.2%
d5-Phenol	63.2%	2-Fluorophenol	61.5%
2,4,6-Tribromophenol	78.8%	d4-2-Chlorophenol	63.3%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-07-S-C-dup-121108
SAMPLE

Lab Sample ID: VR82G
 LIMS ID: 12-22485
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 18:53
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 63.4%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.4	19	42 Q
541-73-1	1,3-Dichlorobenzene	2.6	19	< 19 U
106-46-7	1,4-Dichlorobenzene	2.8	19	< 19 U
100-51-6	Benzyl Alcohol	5.9	19	100
95-50-1	1,2-Dichlorobenzene	2.4	19	< 19 U
95-48-7	2-Methylphenol	5.1	19	< 19 U
106-44-5	4-Methylphenol	6.4	39	31 J
67-72-1	Hexachloroethane	2.9	19	< 19 U
105-67-9	2,4-Dimethylphenol	3.4	19	< 19 UJ
65-85-0	Benzoic Acid	98	390	480
120-82-1	1,2,4-Trichlorobenzene	3.4	19	< 19 U
91-20-3	Naphthalene	2.7	19	25
87-68-3	Hexachlorobutadiene	4.4	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	19	< 19 U
131-11-3	Dimethylphthalate	2.8	19	< 19 U
208-96-8	Acenaphthylene	5.5	19	< 19 U
83-32-9	Acenaphthene	3.2	19	< 19 U
132-64-9	Dibenzofuran	4.0	19	< 19 U
84-66-2	Diethylphthalate	36	48	< 48 U
86-73-7	Fluorene	4.2	19	9.7 J
86-30-6	N-Nitrosodiphenylamine	5.2	19	< 19 U
118-74-1	Hexachlorobenzene	4.2	19	< 19 U
87-86-5	Pentachlorophenol	47	190	< 190 U
85-01-8	Phenanthrene	3.5	19	68
120-12-7	Anthracene	4.4	19	< 19 U
84-74-2	Di-n-Butylphthalate	7.9	19	12 J
206-44-0	Fluoranthene	2.8	19	140
129-00-0	Pyrene	1.9	19	130
85-68-7	Butylbenzylphthalate	6.0	19	< 19 U
56-55-3	Benzo (a) anthracene	3.2	19	52
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	300 B
218-01-9	Chrysene	3.6	19	82
117-84-0	Di-n-Octyl phthalate	5.7	19	< 19 U
50-32-8	Benzo (a) pyrene	5.3	19	55
193-39-5	Indeno (1,2,3-cd) pyrene	4.5	19	38
53-70-3	Dibenz (a,h) anthracene	4.2	19	12 J
191-24-2	Benzo (g,h,i) perylene	4.3	19	41
90-12-0	1-Methylnaphthalene	2.6	19	< 19 U
TOTBFA	Total Benzofluoranthenes	2.7	39	140

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	77.8%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	62.3%	d-Fluorophenol	59.7%
2,4,6-Tribromophenol	82.8%	d4-2-Chlorophenol	63.1%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-08-S-C-121108
SAMPLE

Lab Sample ID: VR82H
 LIMS ID: 12-22486
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 19:29
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 58.5%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.3	19	19 Q
541-73-1	1,3-Dichlorobenzene	2.5	19	< 19 U
106-46-7	1,4-Dichlorobenzene	2.8	19	< 19 U
100-51-6	Benzyl Alcohol	5.9	19	61
95-50-1	1,2-Dichlorobenzene	2.4	19	< 19 U
95-48-7	2-Methylphenol	5.0	19	< 19 U
106-44-5	4-Methylphenol	6.4	38	22 J
67-72-1	Hexachloroethane	2.8	19	< 19 U
105-67-9	2,4-Dimethylphenol	3.3	19	< 19 UJ
65-85-0	Benzoic Acid	97	380	300 J
120-82-1	1,2,4-Trichlorobenzene	3.3	19	< 19 U
91-20-3	Naphthalene	2.7	19	14 J
87-68-3	Hexachlorobutadiene	4.4	10	< 10 UJ
91-57-6	2-Methylnaphthalene	2.9	19	< 19 U
131-11-3	Dimethylphthalate	2.8	19	< 19 U
208-96-8	Acenaphthylene	5.5	19	< 19 U
83-32-9	Acenaphthene	3.2	19	< 19 U
132-64-9	Dibenzofuran	3.9	19	< 19 U
84-66-2	Diethylphthalate	35	48	< 48 U
86-73-7	Fluorene	4.2	19	< 19 U
86-30-6	N-Nitrosodiphenylamine	5.2	19	< 19 U
118-74-1	Hexachlorobenzene	4.1	19	< 19 U
87-86-5	Pentachlorophenol	47	190	< 190 U
85-01-8	Phenanthrene	3.5	19	64
120-12-7	Anthracene	4.3	19	< 19 U
84-74-2	Di-n-Butylphthalate	7.8	19	< 19 U
206-44-0	Fluoranthene	2.8	19	130
129-00-0	Pyrene	1.9	19	120
85-68-7	Butylbenzylphthalate	5.9	19	36
56-55-3	Benzo (a) anthracene	3.2	19	42
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	240 B
218-01-9	Chrysene	3.6	19	73
117-84-0	Di-n-Octyl phthalate	5.6	19	< 19 U
50-32-8	Benzo (a) pyrene	5.2	19	50
193-39-5	Indeno (1,2,3-cd) pyrene	4.5	19	36
53-70-3	Dibenz (a,h) anthracene	4.1	19	11 J
191-24-2	Benzo (g,h,i) perylene	4.2	19	41
90-12-0	1-Methylnaphthalene	2.6	19	9.6 J
TOTBFA	Total Benzofluoranthenes	2.6	38	120

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.6%	2-Fluorobiphenyl	59.0%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	57.9%	2-Fluorophenol	56.9%
2,4,6-Tribromophenol	82.1%	d4-2-Chlorophenol	61.1%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-09-S-C-121108
SAMPLE

Lab Sample ID: VR82I
 LIMS ID: 12-22487
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 20:06
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 63.7%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	39 Q
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.8	20	< 20 U
100-51-6	Benzyl Alcohol	6.0	20	110
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.2	20	< 20 U
106-44-5	4-Methylphenol	6.5	39	36 J
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.4	20	< 20 UJ
65-85-0	Benzoic Acid	99	390	510
120-82-1	1,2,4-Trichlorobenzene	3.4	20	< 20 U
91-20-3	Naphthalene	2.7	20	24
87-68-3	Hexachlorobutadiene	4.5	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.0	20	< 20 U
131-11-3	Dimethylphthalate	2.8	20	< 20 U
208-96-8	Acenaphthylene	5.6	20	< 20 U
83-32-9	Acenaphthene	3.2	20	< 20 U
132-64-9	Dibenzofuran	4.0	20	< 20 U
84-66-2	Diethylphthalate	36	49	< 49 U
86-73-7	Fluorene	4.3	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	5.3	20	< 20 U
118-74-1	Hexachlorobenzene	4.2	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	59
120-12-7	Anthracene	4.4	20	< 20 U
84-74-2	Di-n-Butylphthalate	8.0	20	< 20 U
206-44-0	Fluoranthene	2.9	20	120
129-00-0	Pyrene	1.9	20	120
85-68-7	Butylbenzylphthalate	6.0	20	29
56-55-3	Benzo (a) anthracene	3.2	20	40
117-81-7	bis (2-Ethylhexyl) phthalate	14	24	240 B
218-01-9	Chrysene	3.7	20	72
117-84-0	Di-n-Octyl phthalate	5.7	20	< 20 U
50-32-8	Benzo (a) pyrene	5.3	20	45
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	20	33
53-70-3	Dibenz (a, h) anthracene	4.2	20	13 J
191-24-2	Benzo (g, h, i) perylene	4.3	20	36
90-12-0	1-Methylnaphthalene	2.6	20	< 20 U
TOTBFA	Total Benzofluoranthenes	2.7	39	120

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	51.4%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	77.0%	d4-1,2-Dichlorobenzene	59.0%
d5-Phenol	60.5%	2-Fluorophenol	58.7%
2,4,6-Tribromophenol	80.4%	d4-2-Chlorophenol	62.4%

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT	OUT
SG-02-S-C-121108	57.6%	69.0%	78.0%	59.4%	67.1%	58.8%	76.9%	65.6%		0
SG-03-S-C-121108	62.6%	73.2%	78.4%	61.0%	70.0%	66.5%	78.9%	69.1%		0
MB-111412	59.4%	65.0%	80.4%	65.6%	65.7%	61.9%	69.1%	65.3%		0
LCS-111412	60.6%	75.0%	81.4%	64.2%	71.2%	65.7%	78.7%	68.4%		0
SG-04-S-C-121108	65.4%	68.0%	80.8%	65.4%	69.3%	65.5%	71.2%	68.3%		0
SG-04-S-C-121108 MS	61.6%	69.4%	76.6%	62.0%	67.5%	64.5%	79.2%	65.1%		0
SG-04-S-C-121108 MSD	61.2%	71.0%	80.0%	60.8%	67.1%	64.8%	80.9%	65.3%		0
SG-05-S-C-121108	58.0%	65.2%	75.8%	62.0%	65.5%	60.8%	71.1%	65.1%		0
SG-06-S-C-121108	67.2%	80.0%	86.6%	67.4%	73.1%	68.9%	91.3%	74.7%		0
SG-07-S-C-121108	57.8%	65.4%	74.4%	60.2%	63.2%	61.5%	78.8%	63.3%		0
SG-07-S-C-dup-1211	55.2%	66.4%	77.8%	61.6%	62.3%	59.7%	82.8%	63.1%		0
SG-08-S-C-121108	52.6%	59.0%	76.0%	59.6%	57.9%	56.9%	82.1%	61.1%		0
SG-09-S-C-121108	51.4%	61.2%	77.0%	59.0%	60.5%	58.7%	80.4%	62.4%		0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(30-160)	(30-160)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)
(TPH) = d14-p-Terphenyl	(30-160)	(30-160)
(DCB) = d4-1,2-Dichlorobenzene	(30-160)	(30-160)
(PHL) = d5-Phenol	(30-160)	(30-160)
(2FP) = 2-Fluorophenol	(30-160)	(30-160)
(TBP) = 2,4,6-Tribromophenol	(30-160)	(30-160)
(2CP) = d4-2-Chlorophenol	(30-160)	(30-160)

Prep Method: SW3546
Log Number Range: 12-22479 to 12-22487

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: SG-04-S-C-121108
MS/MSD

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted MS/MSD: 11/14/12

Sample Amount MS: 10.26 g-dry-wt
 MSD: 10.20 g-dry-wt

Date Analyzed MS: 12/05/12 15:50
 MSD: 12/05/12 16:26

Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL

Instrument/Analyst MS: NT10/VTS
 MSD: NT10/VTS

Dilution Factor MS: 1.00
 MSD: 1.00

GPC Cleanup: Yes

Percent Moisture: 15.8 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 20 U	327 Q	487	67.1%	308 Q	490	62.9%	6.0%
1,3-Dichlorobenzene	< 20 U	302	487	62.0%	282	490	57.6%	6.8%
1,4-Dichlorobenzene	< 20 U	313	487	64.3%	299	490	61.0%	4.6%
Benzyl Alcohol	< 20 U	340	487	69.8%	324	490	66.1%	4.8%
1,2-Dichlorobenzene	< 20 U	316	487	64.9%	301	490	61.4%	4.9%
2-Methylphenol	< 20 U	249	487	51.1%	221	490	45.1%	11.9%
4-Methylphenol	< 39 U	874 Q	975	89.6%	861 Q	980	87.9%	1.5%
Hexachloroethane	< 20 U	288	487	59.1%	268	490	54.7%	7.2%
2,4-Dimethylphenol	< 20 UJ	787	1460	53.9%	329	1470	22.4%	82.1%
Benzoic Acid	< 390 U	1730	2680	64.6%	1880	2700	69.6%	8.3%
1,2,4-Trichlorobenzene	< 20 U	554 Q	487	114%	545 Q	490	111%	1.6%
Naphthalene	< 20 U	339	487	69.6%	330	490	67.3%	2.7%
Hexachlorobutadiene	< 10 UJ	250 Q	487	51.3%	247 Q	490	50.4%	1.2%
2-Methylnaphthalene	< 20 U	327	487	67.1%	317	490	64.7%	3.1%
Dimethylphthalate	< 20 U	359	487	73.7%	355	490	72.4%	1.1%
Acenaphthylene	< 20 U	311	487	63.9%	305	490	62.2%	1.9%
Acenaphthene	14 J	352	487	69.4%	347	490	68.0%	1.4%
Dibenzofuran	< 20 U	337	487	69.2%	337	490	68.8%	0.0%
Diethylphthalate	< 49 U	344	487	70.6%	351	490	71.6%	2.0%
Fluorene	14 J	351	487	69.2%	353	490	69.2%	0.6%
N-Nitrosodiphenylamine	< 20 U	355	487	72.9%	361	490	73.7%	1.7%
Hexachlorobenzene	< 20 U	338	487	69.4%	346	490	70.6%	2.3%
Pentachlorophenol	< 200 U	956	1460	65.5%	933	1470	63.5%	2.4%
Phenanthrene	140	467	487	67.1%	496	490	72.7%	6.0%
Anthracene	26	361	487	68.8%	368	490	69.8%	1.9%
Di-n-Butylphthalate	< 20 U	411	487	84.4%	425	490	86.7%	3.3%
Fluoranthene	220	534	487	64.5%	560	490	69.4%	4.8%
Pyrene	190	496	487	62.8%	508	490	64.9%	2.4%
Butylbenzylphthalate	< 20 U	425	487	87.3%	425	490	86.7%	0.0%
Benzo(a)anthracene	81	421	487	69.8%	428	490	70.8%	1.6%
bis(2-Ethylhexyl)phthalate	62 B	412 B	487	71.9%	411 B	490	71.2%	0.2%
Chrysene	110	435	487	66.7%	472	490	73.9%	8.2%
Di-n-Octyl phthalate	< 20 U	375	487	77.0%	373	490	76.1%	0.5%
Benzo(a)pyrene	62	353	487	59.8%	355	490	59.8%	0.6%
Indeno(1,2,3-cd)pyrene	39	375	487	69.0%	374	490	68.4%	0.3%
Dibenz(a,h)anthracene	15 J	376	487	74.1%	379	490	74.3%	0.8%
Benzo(g,h,i)perylene	43	396	487	72.5%	387	490	70.2%	2.3%
1-Methylnaphthalene	< 20 U	330	487	67.8%	325	490	66.3%	1.5%
Total Benzofluoranthenes	140	824	975	70.2%	847	980	72.1%	2.8%

Reported in µg/kg (ppb)
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-04-S-C-121108
MATRIX SPIKE

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 15:50
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 15.8%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.4	20	---
541-73-1	1,3-Dichlorobenzene	2.6	20	---
106-46-7	1,4-Dichlorobenzene	2.8	20	---
100-51-6	Benzyl Alcohol	5.9	20	---
95-50-1	1,2-Dichlorobenzene	2.4	20	---
95-48-7	2-Methylphenol	5.1	20	---
106-44-5	4-Methylphenol	6.5	39	---
67-72-1	Hexachloroethane	2.9	20	---
105-67-9	2,4-Dimethylphenol	3.4	39	---
65-85-0	Benzoic Acid	98	390	---
120-82-1	1,2,4-Trichlorobenzene	3.4	20	---
91-20-3	Naphthalene	2.7	20	---
87-68-3	Hexachlorobutadiene	4.5	20	---
91-57-6	2-Methylnaphthalene	3.0	20	---
131-11-3	Dimethylphthalate	2.8	20	---
208-96-8	Acenaphthylene	5.6	20	---
83-32-9	Acenaphthene	3.2	20	---
132-64-9	Dibenzofuran	4.0	20	---
84-66-2	Diethylphthalate	36	49	---
86-73-7	Fluorene	4.2	20	---
86-30-6	N-Nitrosodiphenylamine	5.3	20	---
118-74-1	Hexachlorobenzene	4.2	20	---
87-86-5	Pentachlorophenol	47	200	---
85-01-8	Phenanthrene	3.5	20	---
120-12-7	Anthracene	4.4	20	---
84-74-2	Di-n-Butylphthalate	8.0	20	---
206-44-0	Fluoranthene	2.8	20	---
129-00-0	Pyrene	1.9	20	---
85-68-7	Butylbenzylphthalate	6.0	20	---
56-55-3	Benzo(a)anthracene	3.2	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	14	24	---
218-01-9	Chrysene	3.7	20	---
117-84-0	Di-n-Octyl phthalate	5.7	20	---
50-32-8	Benzo(a)pyrene	5.3	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	20	---
53-70-3	Dibenz(a,h)anthracene	4.2	20	---
191-24-2	Benzo(g,h,i)perylene	4.3	20	---
90-12-0	1-Methylnaphthalene	2.6	20	---
TOTBFA	Total Benzofluoranthenes	2.7	39	---


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.6%	2-Fluorobiphenyl	69.4%
d14-p-Terphenyl	76.6%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	67.5%	2-Fluorophenol	64.5%
2,4,6-Tribromophenol	79.2%	d4-2-Chlorophenol	65.1%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-04-S-C-121108
MATRIX SPIKE DUPLICATE

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 16:26
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 15.8%

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.5	20	---
541-73-1	1,3-Dichlorobenzene	2.6	20	---
106-46-7	1,4-Dichlorobenzene	2.8	20	---
100-51-6	Benzyl Alcohol	6.0	20	---
95-50-1	1,2-Dichlorobenzene	2.5	20	---
95-48-7	2-Methylphenol	5.1	20	---
106-44-5	4-Methylphenol	6.5	39	---
67-72-1	Hexachloroethane	2.9	20	---
105-67-9	2,4-Dimethylphenol	3.4	39	---
65-85-0	Benzoic Acid	99	390	---
120-82-1	1,2,4-Trichlorobenzene	3.4	20	---
91-20-3	Naphthalene	2.7	20	---
87-68-3	Hexachlorobutadiene	4.5	20	---
91-57-6	2-Methylnaphthalene	3.0	20	---
131-11-3	Dimethylphthalate	2.8	20	---
208-96-8	Acenaphthylene	5.6	20	---
83-32-9	Acenaphthene	3.2	20	---
132-64-9	Dibenzofuran	4.0	20	---
84-66-2	Diethylphthalate	36	49	---
86-73-7	Fluorene	4.3	20	---
86-30-6	N-Nitrosodiphenylamine	5.3	20	---
118-74-1	Hexachlorobenzene	4.2	20	---
87-86-5	Pentachlorophenol	48	200	---
85-01-8	Phenanthrene	3.6	20	---
120-12-7	Anthracene	4.4	20	---
84-74-2	Di-n-Butylphthalate	8.0	20	---
206-44-0	Fluoranthene	2.9	20	---
129-00-0	Pyrene	1.9	20	---
85-68-7	Butylbenzylphthalate	6.0	20	---
56-55-3	Benzo(a)anthracene	3.2	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	14	24	---
218-01-9	Chrysene	3.7	20	---
117-84-0	Di-n-Octyl phthalate	5.7	20	---
50-32-8	Benzo(a)pyrene	5.3	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	20	---
53-70-3	Dibenz(a,h)anthracene	4.2	20	---
191-24-2	Benzo(g,h,i)perylene	4.3	20	---
90-12-0	1-Methylnaphthalene	2.6	20	---
TOTBFA	Total Benzofluoranthenes	2.7	39	---


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	71.0%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	67.1%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	80.9%	d4-2-Chlorophenol	65.3%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 2

Sample ID: LCS-111412
LAB CONTROL

Lab Sample ID: LCS-111412
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 13:23
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.00 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	415 Q	500	83.0%
1,3-Dichlorobenzene	315	500	63.0%
1,4-Dichlorobenzene	340	500	68.0%
Benzyl Alcohol	366	500	73.2%
1,2-Dichlorobenzene	330	500	66.0%
2-Methylphenol	275	500	55.0%
4-Methylphenol	974 Q	1000	97.4%
Hexachloroethane	299	500	59.8%
2,4-Dimethylphenol	590	1500	39.3%
Benzoic Acid	1570	2750	57.1%
1,2,4-Trichlorobenzene	592 Q	500	118%
Naphthalene	344	500	68.8%
Hexachlorobutadiene	267 Q	500	53.4%
2-Methylnaphthalene	326	500	65.2%
Dimethylphthalate	386	500	77.2%
Acenaphthylene	321	500	64.2%
Acenaphthene	353	500	70.6%
Dibenzofuran	351	500	70.2%
Diethylphthalate	381	500	76.2%
Fluorene	353	500	70.6%
N-Nitrosodiphenylamine	375	500	75.0%
Hexachlorobenzene	335	500	67.0%
Pentachlorophenol	989	1500	65.9%
Phenanthrene	418	500	83.6%
Anthracene	362	500	72.4%
Di-n-Butylphthalate	420	500	84.0%
Fluoranthene	400	500	80.0%
Pyrene	387	500	77.4%
Butylbenzylphthalate	429	500	85.8%
Benzo(a)anthracene	381	500	76.2%
bis(2-Ethylhexyl)phthalate	400 B	500	80.0%
Chrysene	382	500	76.4%
Di-n-Octyl phthalate	427	500	85.4%
Benzo(a)pyrene	320	500	64.0%

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 2 of 2

Sample ID: LCS-111412
LAB CONTROL

Lab Sample ID: LCS-111412
 LIMS ID: 12-22481
 Matrix: Sediment
 Date Analyzed: 12/05/12 13:23

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01

Analyte	Lab Control	Spike Added	Recovery
Indeno(1,2,3-cd)pyrene	399	500	79.8%
Dibenz(a,h)anthracene	421	500	84.2%
Benzo(g,h,i)perylene	422	500	84.4%
1-Methylnaphthalene	331	500	66.2%
Total Benzofluoranthenes	774	1000	77.4%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.6%
2-Fluorobiphenyl	75.0%
d14-p-Terphenyl	81.4%
d4-1,2-Dichlorobenzene	64.2%
d5-Phenol	71.2%
2-Fluorophenol	65.7%
2,4,6-Tribromophenol	78.7%
d4-2-Chlorophenol	68.4%

Reported in µg/kg (ppb)

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

VR82MBS1

Lab Name: ANALYTICAL RESOURCES INC
 ARI Job No: VR82
 Lab File ID: VR82MB
 Instrument ID: NT10
 Matrix: SOLID

Client: ANCHOR QEA, LLC.
 Project: CITY OF KENMORE SEDI
 Date Extracted: 11/14/12
 Date Analyzed: 12/05/12
 Time Analyzed: 1246

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	VR82LCSS1	VR82LCSS1	VR82SB	12/05/12
02	SG-02-S-C-121108	VR82A	VR82A	12/05/12
03	SG-03-S-C-121108	VR82B	VR82B	12/05/12
04	SG-04-S-C-121108	VR82C	VR82C	12/05/12
05	SG-04-S-C-12110	VR82CMS	VR82CMS	12/05/12
06	SG-04-S-C-12110	VR82CMSD	VR82CMSD	12/05/12
07	SG-05-S-C-121108	VR82D	VR82D	12/05/12
08	SG-06-S-C-121108	VR82E	VR82E	12/05/12
09	SG-07-S-C-121108	VR82F	VR82F	12/05/12
10	SG-07-S-C-DUP-12	VR82G	VR82G	12/05/12
11	SG-08-S-C-121108	VR82H	VR82H	12/05/12
12	SG-09-S-C-121108	VR82I	VR82I	12/05/12
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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MB-111412
METHOD BLANK

Lab Sample ID: MB-111412
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 12/06/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 11/14/12
 Date Analyzed: 12/05/12 12:46
 Instrument/Analyst: NT10/VTS
 GPC Cleanup: Yes

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	MDL	RL	Result
108-95-2	Phenol	8.6	20	< 20 U
541-73-1	1,3-Dichlorobenzene	2.6	20	< 20 U
106-46-7	1,4-Dichlorobenzene	2.9	20	< 20 U
100-51-6	Benzyl Alcohol	6.1	20	< 20 U
95-50-1	1,2-Dichlorobenzene	2.5	20	< 20 U
95-48-7	2-Methylphenol	5.2	20	< 20 U
106-44-5	4-Methylphenol	6.6	40	< 40 U
67-72-1	Hexachloroethane	2.9	20	< 20 U
105-67-9	2,4-Dimethylphenol	3.5	20	< 20 UJ
65-85-0	Benzoic Acid	100	400	< 400 U
120-82-1	1,2,4-Trichlorobenzene	3.5	20	< 20 U
91-20-3	Naphthalene	2.8	20	< 20 U
87-68-3	Hexachlorobutadiene	4.6	10	< 10 UJ
91-57-6	2-Methylnaphthalene	3.1	20	< 20 U
131-11-3	Dimethylphthalate	2.9	20	< 20 U
208-96-8	Acenaphthylene	5.7	20	< 20 U
83-32-9	Acenaphthene	3.3	20	< 20 U
132-64-9	Dibenzofuran	4.1	20	< 20 U
84-66-2	Diethylphthalate	37	50	< 50 U
86-73-7	Fluorene	4.4	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	5.4	20	< 20 U
118-74-1	Hexachlorobenzene	4.3	20	< 20 U
87-86-5	Pentachlorophenol	48	200	< 200 U
85-01-8	Phenanthrene	3.6	20	< 20 U
120-12-7	Anthracene	4.5	20	< 20 U
84-74-2	Di-n-Butylphthalate	8.2	20	< 20 U
206-44-0	Fluoranthene	2.9	20	< 20 U
129-00-0	Pyrene	1.9	20	< 20 U
85-68-7	Butylbenzylphthalate	6.1	20	< 20 U
56-55-3	Benzo(a)anthracene	3.3	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	15	25	18 J
218-01-9	Chrysene	3.8	20	< 20 U
117-84-0	Di-n-Octyl phthalate	5.8	20	< 20 U
50-32-8	Benzo(a)pyrene	5.4	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	4.3	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	4.4	20	< 20 U
90-12-0	1-Methylnaphthalene	2.7	20	< 20 U
TOTBFA	Total Benzofluoranthenes	2.8	40	< 40 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.4%	2-Fluorobiphenyl	65.0%
d14-p-Terphenyl	80.4%	d4-1,2-Dichlorobenzene	65.6%
d5-Phenol	65.7%	2-Fluorophenol	61.9%
2,4,6-Tribromophenol	69.1%	d4-2-Chlorophenol	65.3%

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

Instrument ID: NT10

Project: CITY OF KENMORE SEDIMENTS

DFTPP Injection Date: 11/29/12

DFTPP Injection Time: 0938

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.7
68	Less than 2.0% of mass 69	0.5 (1.5)1
69	Mass 69 relative abundance	33.7
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	10.0 - 80.0% of mass 198	45.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.4
365	Greater than 1.0% of mass 198	4.10
441	0.0 - 24.0% of mass 442	16.1 (15.7)2
442	50.0 - 200.0% of mass 198	102.5
443	15.0 - 24.0% of mass 442	20.5 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		ABN 5	IC1129A	11/29/12	0954
02		ABN0.2	IC1129C	11/29/12	1110
03		ABN1	IC1129D	11/29/12	1224
04		ABN10	IC1129E	11/29/12	1302
05		ABN2.5	IC1129G	11/29/12	1416
06		ABN0.5	IC1129I	11/29/12	1530
07					
08					
09					
10					
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12					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

Instrument ID: NT10

Project: CITY OF KENMORE SEDIMENTS

DFTPP Injection Date: 12/05/12

DFTPP Injection Time: 1134

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.5
68	Less than 2.0% of mass 69	0.5 (2.0)1
69	Mass 69 relative abundance	27.0
70	Less than 2.0% of mass 69	0.1 (0.4)1
127	10.0 - 80.0% of mass 198	41.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	30.8
365	Greater than 1.0% of mass 198	5.02
441	0.0 - 24.0% of mass 442	19.1 (15.0)2
442	50.0 - 200.0% of mass 198	127.7
443	15.0 - 24.0% of mass 442	25.5 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1205	CC1205	12/05/12	1149
02	VR82MBS1	VR82MBS1	VR82MB	12/05/12	1246
03	VR82LCSS1	VR82LCSS1	VR82SB	12/05/12	1323
04	SG-02-S-C-121108	VR82A	VR82A	12/05/12	1400
05	SG-03-S-C-121108	VR82B	VR82B	12/05/12	1436
06	SG-04-S-C-121108	VR82C	VR82C	12/05/12	1513
07	SG-04-S-C-12110	VR82CMS	VR82CMS	12/05/12	1550
08	SG-04-S-C-12110	VR82CMSD	VR82CMSD	12/05/12	1626
09	SG-05-S-C-121108	VR82D	VR82D	12/05/12	1703
10	SG-06-S-C-121108	VR82E	VR82E	12/05/12	1739
11	SG-07-S-C-121108	VR82F	VR82F	12/05/12	1816
12	SG-07-S-C-DUP-12	VR82G	VR82G	12/05/12	1853
13	SG-08-S-C-121108	VR82H	VR82H	12/05/12	1929
14	SG-09-S-C-121108	VR82I	VR82I	12/05/12	2006
15					
16					
17					
18					
19					
20					
21					
22					

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENT

Instrument ID: NT10

Calibration Date: 11/29/12

LAB FILE ID:	RRF0.2=IC1129C	RRF0.5=IC1129I	RRF1 =IC1129D	RRF2.5=IC1129G	RRF5 =IC1129A	RRF10 =IC1129E	RRF20 =		
COMPOUND	RRF 0.2	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	RRF 20	RRF	%RSD /R ²
Phenol	1.825	1.894	1.881	1.752	1.430	1.226		1.668	16.5
1,3-Dichlorobenzene	1.716	1.749	1.686	1.659	1.498	1.353		1.610	9.5
1,4-Dichlorobenzene	1.638	1.616	1.568	1.581	1.426	1.234		1.510	10.2
1,2-Dichlorobenzene	1.698	1.658	1.564	1.480	1.274	1.022		1.449	17.8
Benzyl alcohol	0.754	0.730	0.843	0.789	0.906	0.709		0.788	9.4
2-Methylphenol	1.518	1.541	1.565	1.530	1.316	1.131		1.434	12.1
Hexachloroethane	0.675	0.689	0.636	0.619	0.572	0.532		0.620	9.7
4-Methylphenol	0.998	0.824	0.869	0.766	0.782	0.863		0.850	9.8
2,4-Dimethylphenol	0.407	0.421	0.413	0.376	0.330	0.336		0.380	10.5
1,2,4-Trichlorobenzene	0.230	0.230	0.226	0.210	0.222	0.217		0.222	3.5
Naphthalene	1.101	1.058	1.029	0.955	0.838	0.858		0.973	11.1
Benzoic acid	0.098	0.150	0.215	0.272	0.241	0.295		0.212	0.997
Hexachlorobutadiene	0.234	0.239	0.224	0.275	0.259	0.265		0.249	8.0
2-Methylnaphthalene	0.760	0.762	0.761	0.738	0.670	0.658		0.725	6.7
Acenaphthylene	2.059	2.056	1.934	1.873	1.698	1.724		1.891	8.3
Dimethylphthalate	1.284	1.298	1.296	1.311	1.248	1.316		1.292	1.9
Acenaphthene	1.160	1.153	1.127	1.062	0.971	1.010		1.080	7.3
Dibenzofuran	1.673	1.719	1.651	1.600	1.507	1.473		1.604	6.0
Fluorene	1.409	1.430	1.382	1.339	1.205	1.218		1.330	7.3
Diethylphthalate	1.481	1.300	1.287	1.251	1.374	1.421		1.352	6.5
N-Nitrosodiphenylamine (1)	0.511	0.532	0.530	0.506	0.463	0.406		0.491	9.9
Hexachlorobenzene	0.310	0.296	0.292	0.282	0.282	0.259		0.287	5.9
Pentachlorophenol		0.144	0.167	0.196	0.204	0.205		0.183	14.6
Phenanthrene	1.075	1.049	1.060	0.996	0.926	0.838		0.991	9.3
Anthracene	1.164	1.115	1.141	1.110	0.985	0.872		1.064	10.6
Di-n-butylphthalate	1.340	1.177	1.264	1.275	1.287	1.213		1.259	4.5
Fluoranthene	1.290	1.255	1.305	1.284	1.226	1.130		1.248	5.1
Pyrene	1.225	1.223	1.220	1.252	1.173	0.938		1.172	10.0
Butylbenzylphthalate	0.518	0.458	0.491	0.488	0.497	0.404		0.476	8.5
Benzo(a)anthracene	1.247	1.206	1.195	1.177	1.020	0.977		1.137	9.7
Chrysene	1.039	1.026	1.006	0.965	1.091	0.933		1.010	5.5
bis(2-Ethylhexyl)phthalate	0.670	0.547	0.538	0.494	0.507	0.556		0.552	11.3
Di-n-octylphthalate	0.993	0.942	0.927	0.904	0.846	0.829		0.907	6.8
Benzo(a)pyrene	1.267	1.041	1.205	1.063	1.166	1.106		1.141	7.6
Indeno(1,2,3-cd)pyrene	1.362	1.302	1.309	1.298	1.252	1.240		1.294	3.4
Dibenzo(a,h)anthracene	1.088	1.043	1.053	1.031	0.964	0.981		1.027	4.5
Benzo(g,h,i)perylene	1.158	1.134	1.104	1.097	1.090	1.061		1.107	3.1

(1) Cannot be separated from Diphenylamine

<- Outside QC limits: %RSD <20% or R² > 0.990

FORM VI SV-1

VR82: 00046

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENT

Instrument ID: NT10

Calibration Date: 11/29/12

COMPOUND	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	%RSD /R ²
	0.2	0.5	1	2.5	5	10	20		
1-methylnaphthalene	0.705	0.713	0.684	0.674	0.606	0.610		0.665	7.0
Total Benzofluoranthenes	1.311	1.188	1.184	1.156	1.088	1.136		1.177	6.4
2-Fluorophenol	1.315	1.302	1.347	1.336	1.229	1.148		1.280	6.0
Phenol-d5	1.538	1.596	1.680	1.666	1.631	1.389		1.583	6.8
2-Chlorophenol-d4	1.439	1.452	1.470	1.432	1.256	1.170		1.370	9.1
1,2-Dichlorobenzene-d4	1.107	1.115	1.061	1.022	0.913	0.775		0.999	13.2
Nitrobenzene-d5	0.370	0.396	0.381	0.385	0.353	0.363		0.375	4.2
2-Fluorobiphenyl	1.488	1.516	1.451	1.439	1.308	1.291		1.416	6.7
2,4,6-Tribromophenol	0.215	0.216	0.227	0.238	0.250	0.267		0.236	8.6
Terphenyl-d14	0.805	0.791	0.790	0.811	0.850	0.652		0.783	8.6

<- Outside QC limits: %RSD <20% or R² > 0.990

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENTS

Instrument ID: NT10

Cont. Calib. Date: 12/05/12

Init. Calib. Date: 11/29/12

Cont. Calib. Time: 1149

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
Phenol	1.668	2.077	0.800	AVRG	24.5	<-
1,3-Dichlorobenzene	1.610	1.496	0.010	AVRG	-7.1	
1,4-Dichlorobenzene	1.510	1.463	0.010	AVRG	-3.1	
1,2-Dichlorobenzene	1.449	1.409	0.010	AVRG	-2.8	
Benzyl alcohol	0.788	0.849	0.010	AVRG	7.7	
2-Methylphenol	1.434	1.504	0.700	AVRG	4.9	
Hexachloroethane	0.620	0.565	0.300	AVRG	-8.9	
4-Methylphenol	0.850	1.543	0.600	AVRG	81.5	<-
2,4-Dimethylphenol	0.380	0.324	0.200	AVRG	-14.7	
1,2,4-Trichlorobenzene	0.222	0.310	0.010	AVRG	39.6	<-
Naphthalene	0.973	1.001	0.700	AVRG	2.9	
Benzoic acid	20.00	20.35	0.010	2ORDR	1.8	
Hexachlorobutadiene	0.249	0.190	0.010	AVRG	-23.7	<-
2-Methylnaphthalene	0.725	0.690	0.400	AVRG	-4.8	
Acenaphthylene	1.891	1.788	0.900	AVRG	-5.4	
Dimethylphthalate	1.292	1.173	0.010	AVRG	-9.2	
Acenaphthene	1.080	1.053	0.900	AVRG	-2.5	
Dibenzofuran	1.604	1.488	0.800	AVRG	-7.2	
Fluorene	1.330	1.224	0.900	AVRG	-8.0	
Diethylphthalate	1.352	1.095	0.010	AVRG	-19.0	
N-Nitrosodiphenylamine (1)	0.491	0.450	0.010	AVRG	-8.4	
Hexachlorobenzene	0.287	0.232	0.100	AVRG	-19.2	
Pentachlorophenol	0.183	0.181	0.050	AVRG	-1.1	
Phenanthrene	0.991	1.011	0.700	AVRG	2.0	
Anthracene	1.064	1.057	0.700	AVRG	-0.6	
Di-n-butylphthalate	1.259	1.192	0.010	AVRG	-5.3	
Fluoranthene	1.248	1.202	0.600	AVRG	-3.7	
Pyrene	1.172	1.180	0.600	AVRG	0.7	
Butylbenzylphthalate	0.476	0.462	0.010	AVRG	-2.9	
Benzo(a)anthracene	1.137	1.072	0.800	AVRG	-5.7	
Chrysene	1.010	0.976	0.700	AVRG	-3.4	
bis(2-Ethylhexyl)phthalate	0.552	0.537	0.010	AVRG	-2.7	
Di-n-octylphthalate	0.907	0.899	0.010	AVRG	-0.9	
Benzo(a)pyrene	1.141	1.022	0.700	AVRG	-10.4	
Indeno(1,2,3-cd)pyrene	1.294	1.239	0.500	AVRG	-4.2	
Dibenzo(a,h)anthracene	1.027	0.984	0.400	AVRG	-4.2	
Benzo(g,h,i)perylene	1.107	1.060	0.500	AVRG	-4.2	

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENTS

Instrument ID: NT10

Cont. Calib. Date: 12/05/12

Init. Calib. Date: 11/29/12

Cont. Calib. Time: 1149

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
1-methylnaphthalene	0.665	0.617	0.010	AVRG	-7.2
Total Benzofluoranthenes	1.177	1.127	0.010	AVRG	-4.2
2-Fluorophenol	1.280	1.332	0.010	AVRG	4.1
Phenol-d5	1.583	1.684	0.010	AVRG	6.4
2-Chlorophenol-d4	1.370	1.340	0.010	AVRG	-2.2
1,2-Dichlorobenzene-d4	0.999	0.946	0.010	AVRG	-5.3
Nitrobenzene-d5	0.375	0.345	0.010	AVRG	-8.0
2-Fluorobiphenyl	1.416	1.471	0.010	AVRG	3.9
2,4,6-Tribromophenol	0.236	0.225	0.010	AVRG	-4.7
Terphenyl-d14	0.783	0.745	0.010	AVRG	-4.8

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENTS

Ical Midpoint ID: IC1129A

Ical Date: 11/29/12

Instrument ID: NT10

Cont. Cal Date: 12/05/12

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	81571	8.94	299399	11.59	178564	15.48
UPPER LIMIT	163142		598798		357128	
LOWER LIMIT	40786		149700		89282	
=====	=====	=====	=====	=====	=====	=====
CCAL	103035	8.81	392234	11.47	228483	15.37
UPPER LIMIT		9.31		11.97		15.87
LOWER LIMIT		8.31		10.97		14.87
01 VR82MBS1	88332	8.82	340344	11.49	199155	15.39
02 VR82LCSS1	85250	8.79	333748	11.43	193732	15.32
03 SG-02-S-C-12	102932	8.79	431981	11.44	260122	15.33
04 SG-03-S-C-12	117864	8.79	453422	11.45	253139	15.33
05 SG-04-S-C-12	111644	8.79	428605	11.44	246698	15.33
06 SG-04-S-C-12	105814	8.79	398767	11.44	236242	15.33
07 SG-04-S-C-12	103900	8.79	383920	11.44	228071	15.33
08 SG-05-S-C-12	100582	8.79	395685	11.44	244510	15.33
09 SG-06-S-C-12	96723	8.79	367009	11.44	216552	15.33
10 SG-07-S-C-12	98819	8.79	386787	11.44	232274	15.33
11 SG-07-S-C-DU	87186	8.79	345919	11.44	224624	15.33
12 SG-08-S-C-12	78871	8.79	316573	11.44	222544	15.33
13 SG-09-S-C-12	75488	8.79	309344	11.44	212175	15.33
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IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint

AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint

RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal

RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENTS

Ical Midpoint ID: IC1129A

Ical Date: 11/29/12

Instrument ID: NT10

Cont. Cal Date: 12/05/12

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	305410	18.75	323853	23.82	305316	26.26
UPPER LIMIT	610820		647706		610632	
LOWER LIMIT	152705		161926		152658	
=====	=====	=====	=====	=====	=====	=====
CCAL	397408	18.66	420761	23.77	411812	26.21
UPPER LIMIT		19.16		24.27		26.71
LOWER LIMIT		18.16		23.27		25.71
01 VR82MBS1	335355	18.67	384953	23.79	373822	26.23
02 VR82LCSS1	335600	18.59	370226	23.72	364867	26.13
03 SG-02-S-C-12	424513	18.62	474788	23.75	451840	26.19
04 SG-03-S-C-12	432994	18.62	471733	23.75	462197	26.19
05 SG-04-S-C-12	414547	18.61	443708	23.73	426125	26.16
06 SG-04-S-C-12	403337	18.61	458185	23.73	440765	26.16
07 SG-04-S-C-12	387255	18.60	446183	23.72	423286	26.15
08 SG-05-S-C-12	410498	18.61	436356	23.73	409766	26.17
09 SG-06-S-C-12	363874	18.61	408338	23.73	394922	26.18
10 SG-07-S-C-12	395582	18.60	434811	23.73	405769	26.17
11 SG-07-S-C-DU	392203	18.61	420805	23.73	387423	26.16
12 SG-08-S-C-12	392074	18.60	422254	23.73	391355	26.16
13 SG-09-S-C-12	370798	18.60	400110	23.73	370845	26.16
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IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint

AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint

RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal

RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: VR82

Project: CITY OF KENMORE SEDIMENTS

Ical Midpoint ID: IC1129A

Ical Date: 11/29/12

Instrument ID: NT10

Cont. Cal Date: 12/05/12

	IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	427845	24.92				
UPPER LIMIT	855690					
LOWER LIMIT	213922					
=====	=====	=====	=====	=====	=====	=====
CCAL	547636	24.90				
UPPER LIMIT		25.40				
LOWER LIMIT		24.40				
01 VR82MBS1	488712	24.91				
02 VR82LCSS1	480967	24.83				
03 SG-02-S-C-12	628575	24.87				
04 SG-03-S-C-12	624583	24.87				
05 SG-04-S-C-12	604196	24.85				
06 SG-04-S-C-12	623711	24.85				
07 SG-04-S-C-12	592231	24.85				
08 SG-05-S-C-12	577941	24.86				
09 SG-06-S-C-12	541756	24.86				
10 SG-07-S-C-12	584812	24.86				
11 SG-07-S-C-DU	541765	24.86				
12 SG-08-S-C-12	557173	24.85				
13 SG-09-S-C-12	520126	24.85				
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IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

**Dioxin Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: SG-02-S-C-121108

Lab Sample ID: VR82A

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22479

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *MMW*

Date Sampled: 11/08/12

Reported: 12/11/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 11/29/12 00:50

Final Extract Volume: 20 uL

Instrument/Analyst: AS1/PK

Dilution Factor: 1.00

Acid Cleanup: Yes

Silica-Florasil Cleanup: Yes

Silica-Carbon Cleanup: No

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.81	0.65-0.89		0.999	3.37	
2,3,7,8-TCDD	0.59	0.65-0.89		0.999	0.975	JEMPC
1,2,3,7,8-PeCDF	1.48	1.32-1.78		2.00	3.04	
2,3,4,7,8-PeCDF	1.48	1.32-1.78		0.999	3.27	
1,2,3,7,8-PeCDD	1.48	1.32-1.78		0.999	7.83	
1,2,3,4,7,8-HxCDF	1.16	1.05-1.43		2.00	8.04	
1,2,3,6,7,8-HxCDF	1.17	1.05-1.43		2.00	8.28	
2,3,4,6,7,8-HxCDF	1.16	1.05-1.43		2.00	11.7	
1,2,3,7,8,9-HxCDF	1.15	1.05-1.43		2.00	3.12	
1,2,3,4,7,8-HxCDD	1.26	1.05-1.43		2.00	14.5	
1,2,3,6,7,8-HxCDD	1.23	1.05-1.43		2.00	53.1	
1,2,3,7,8,9-HxCDD	1.23	1.05-1.43		2.00	29.5	
1,2,3,4,6,7,8-HpCDF	0.99	0.88-1.20		2.00	137	
1,2,3,4,7,8,9-HpCDF	0.97	0.88-1.20		2.00	7.34	
1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20		2.00	1,020	
OCDF	0.83	0.76-1.02		5.00	366	
OCDD	0.89	0.76-1.02		25.0	7,420	#

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.999	51.0	55.5
Total TCDD		0.999	13.9	14.9
Total PeCDF		2.00	119	
Total PeCDD		0.999	43.9	
Total HxCDF		2.00	240	
Total HxCDD		2.00	334	
Total HpCDF		2.00	404	
Total HpCDD		2.00	2,260	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 37.0

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 37.0

#-Result from diluted secondary analysis.

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: SG-02-S-C-121108

Lab Sample ID: VR82A

LIMS ID: 12-22479

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Date Analyzed: 11/29/12 00:50

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.77	0.65-0.89	63.1	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	71.0	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	72.0	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	74.2	21-178	
13C-1,2,3,7,8-PeCDD	1.58	1.32-1.78	73.1	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	66.5	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	66.2	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	64.4	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	76.8	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	69.4	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	70.1	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	63.4	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	66.1	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	71.9	23-140	
13C-OCDD	0.90	0.76-1.02	62.7	17-157	
37C14-2,3,7,8-TCDD			93.9	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
 Page 1 of 1

Sample ID: SG-02-S-C-121108
DILUTION

Lab Sample ID: VR82A
 LIMS ID: 12-22479
 Matrix: Sediment
 Data Release Authorized: *WW*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 14:35
 Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 5.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-OCDD	0.90	0.76-1.02	57.5	17-157	
37Cl4-2,3,7,8-TCDD			94.2	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
 Page 1 of 1

Sample ID: SG-03-S-C-121108

Lab Sample ID: VR82B
 LIMS ID: 12-22480
 Matrix: Sediment
 Data Release Authorized: *mw*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 01:43
 Instrument/Analyst: AS1/PK
 Acid Cleanup: Yes
 Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00
 Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.68	0.65-0.89		0.999	2.13	
2,3,7,8-TCDD	0.47	0.65-0.89		0.999	0.599	JEMPC
1,2,3,7,8-PeCDF	1.50	1.32-1.78		2.00	1.71	J
2,3,4,7,8-PeCDF	1.42	1.32-1.78		0.999	1.86	
1,2,3,7,8-PeCDD	1.55	1.32-1.78		0.999	3.75	
1,2,3,4,7,8-HxCDF	1.17	1.05-1.43		2.00	4.83	
1,2,3,6,7,8-HxCDF	1.18	1.05-1.43		2.00	4.02	
2,3,4,6,7,8-HxCDF	1.14	1.05-1.43		2.00	6.21	
1,2,3,7,8,9-HxCDF	1.03	1.05-1.43		2.00	1.80	JEMPC
1,2,3,4,7,8-HxCDD	1.19	1.05-1.43		2.00	6.97	
1,2,3,6,7,8-HxCDD	1.27	1.05-1.43		2.00	28.0	
1,2,3,7,8,9-HxCDD	1.19	1.05-1.43		2.00	14.5	
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20		2.00	84.1	
1,2,3,4,7,8,9-HpCDF	0.95	0.88-1.20		2.00	4.63	
1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20		2.00	610	
OCDF	0.84	0.76-1.02		5.00	272	
OCDD	0.89	0.76-1.02		5.00	4,760	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.999	29.2	32.2
Total TCDD		0.999	8.62	9.77
Total PeCDF		2.00	55.6	59.4
Total PeCDD		0.999	26.5	
Total HxCDF		2.00	134	136
Total HxCDD		2.00	206	
Total HpCDF		2.00	273	
Total HpCDD		2.00	1,620	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 20.3

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 20.3

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-03-S-C-121108

Lab Sample ID: VR82B
 LIMS ID: 12-22480
 Matrix: Sediment
 Data Release Authorized: *mw*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 01:43
 Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	52.1	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	59.7	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	57.8	24-185	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	62.6	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	60.9	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	56.5	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	55.1	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	52.5	28-136	
13C-1,2,3,7,8,9-HxCDF	0.51	0.43-0.59	59.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	55.1	32-141	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	55.5	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	49.7	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	50.8	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	54.7	23-140	
13C-OCDD	0.89	0.76-1.02	44.2	17-157	
37Cl4-2,3,7,8-TCDD			91.7	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-04-S-C-121108

Lab Sample ID: VR82C
LIMS ID: 12-22481
Matrix: Sediment
Data Release Authorized: *TW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 03:35
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.52	0.65-0.89		0.997	0.173	BJEMPC
2,3,7,8-TCDD	0.30	0.65-0.89		0.997	0.150	JEMPC
1,2,3,7,8-PeCDF	1.49	1.32-1.78		1.99	0.164	JX
2,3,4,7,8-PeCDF	1.21	1.32-1.78		0.997	0.128	JEMPC
1,2,3,7,8-PeCDD	1.44	1.32-1.78		0.997	0.381	J
1,2,3,4,7,8-HxCDF	1.27	1.05-1.43		1.99	0.289	J
1,2,3,6,7,8-HxCDF	1.23	1.05-1.43		1.99	0.261	J
2,3,4,6,7,8-HxCDF	0.87	1.05-1.43		1.99	0.361	JEMPC
1,2,3,7,8,9-HxCDF	0.98	1.05-1.43		1.99	0.185	BJEMPC
1,2,3,4,7,8-HxCDD	1.07	1.05-1.43		1.99	0.491	J
1,2,3,6,7,8-HxCDD	1.36	1.05-1.43		1.99	1.62	J
1,2,3,7,8,9-HxCDD	1.22	1.05-1.43		1.99	0.897	J
1,2,3,4,6,7,8-HpCDF	0.94	0.88-1.20		1.99	4.39	
1,2,3,4,7,8,9-HpCDF	0.90	0.88-1.20		1.99	0.315	J
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20		1.99	40.5	
OCDF	0.84	0.76-1.02		4.99	10.8	
OCDD	0.89	0.76-1.02		4.99	307	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.997	0.895	2.12
Total TCDD		0.997	0.217	1.13
Total PeCDF		1.99	2.92	3.51
Total PeCDD		0.997	2.01	2.51
Total HxCDF		1.99	6.78	7.38
Total HxCDD		1.99	16.1	
Total HpCDF		1.99	13.0	13.1
Total HpCDD		1.99	134	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.55

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.55

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-04-S-C-121108

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *Ymw*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 03:35
 Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	74.2	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	85.1	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	88.0	24-185	
13C-2,3,4,7,8-PeCDF	1.58	1.32-1.78	88.3	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	88.0	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	82.9	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	83.5	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	77.9	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	96.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	84.3	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	85.5	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	78.2	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	80.6	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	84.1	23-140	
13C-OCDD	0.90	0.76-1.02	67.9	17-157	
37Cl4-2,3,7,8-TCDD			88.8	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-04-S-C-121108
DUPLICATE

Lab Sample ID: VR82CDUP
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *TW*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 04:31
 Instrument/Analyst: AS1/PK
 Acid Cleanup: Yes
 Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00
 Silica-Florisol Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.67	0.65-0.89		0.995	0.101	BJ
2,3,7,8-TCDD	0.23	0.65-0.89		0.995	0.0995	JEMPC
1,2,3,7,8-PeCDF	1.46	1.32-1.78		1.99	0.121	J
2,3,4,7,8-PeCDF	1.25	1.32-1.78		0.995	0.107	JEMPC
1,2,3,7,8-PeCDD	1.40	1.32-1.78		0.995	0.173	J
1,2,3,4,7,8-HxCDF	1.41	1.05-1.43		1.99	0.281	J
1,2,3,6,7,8-HxCDF	1.38	1.05-1.43		1.99	0.219	J
2,3,4,6,7,8-HxCDF	1.23	1.05-1.43		1.99	0.354	J
1,2,3,7,8,9-HxCDF	0.80	1.05-1.43		1.99	0.0975	BJEMPC
1,2,3,4,7,8-HxCDD	1.40	1.05-1.43		1.99	0.318	J
1,2,3,6,7,8-HxCDD	1.18	1.05-1.43		1.99	1.18	J
1,2,3,7,8,9-HxCDD	1.29	1.05-1.43		1.99	0.706	J
1,2,3,4,6,7,8-HpCDF	0.97	0.88-1.20		1.99	3.54	
1,2,3,4,7,8,9-HpCDF	1.14	0.88-1.20		1.99	0.215	J
1,2,3,4,6,7,8-HpCDD	1.00	0.88-1.20		1.99	28.0	
OCDF	0.83	0.76-1.02		4.98	9.77	
OCDD	0.87	0.76-1.02		4.98	231	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.995	0.981	1.51
Total TCDD		0.995	0.253	0.498
Total PeCDF		1.99	1.69	2.57
Total PeCDD		0.995	0.812	1.33
Total HxCDF		1.99	5.62	5.79
Total HxCDD		1.99	6.19	10.0
Total HpCDF		1.99	10.7	10.8
Total HpCDD		1.99	80.3	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.02

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.02

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-04-S-C-121108

DUPLICATE

Lab Sample ID: VR82CDUP
LIMS ID: 12-22481
Matrix: Sediment
Data Release Authorized: *mw*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 04:31
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisil Cleanup: Yes

Analyte	Sample	Duplicate	RPD
2,3,7,8-TCDF	0.173	0.101	52.6
2,3,7,8-TCDD	0.150	0.0995	40.5
1,2,3,7,8-PeCDF	0.164	0.121	30.2
2,3,4,7,8-PeCDF	0.128	0.107	17.9
1,2,3,7,8-PeCDD	0.381	0.173	75.1
1,2,3,4,7,8-HxCDF	0.289	0.281	2.8
1,2,3,6,7,8-HxCDF	0.261	0.219	17.5
2,3,4,6,7,8-HxCDF	0.361	0.354	2.0
1,2,3,7,8,9-HxCDF	0.185	0.0975	61.9
1,2,3,4,7,8-HxCDD	0.491	0.318	42.8
1,2,3,6,7,8-HxCDD	1.62	1.18	31.4
1,2,3,7,8,9-HxCDD	0.897	0.706	23.8
1,2,3,4,6,7,8-HpCDF	4.39	3.54	21.4
1,2,3,4,7,8,9-HpCDF	0.315	0.215	37.7
1,2,3,4,6,7,8-HpCDD	40.5	28.0	36.5
OCDF	10.8	9.77	10.0
OCDD	307	231	28.3

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-04-S-C-121108
DUPLICATE

Lab Sample ID: VR82CDUP
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *mw*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 04:31
 Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.77	0.65-0.89	75.5	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	82.3	25-164	
13C-1,2,3,7,8-PeCDF	1.56	1.32-1.78	85.4	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	84.7	21-178	
13C-1,2,3,7,8-PeCDD	1.59	1.32-1.78	85.3	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	81.8	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	82.9	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	76.5	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	100	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	82.8	32-141	
13C-1,2,3,6,7,8-HxCDD	1.26	1.05-1.43	84.6	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	78.4	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	81.9	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	85.9	23-140	
13C-OCDD	0.89	0.76-1.02	72.5	17-157	
37C14-2,3,7,8-TCDD			87.5	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-05-S-C-121108

Lab Sample ID: VR82D

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22482

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *MW*

Date Sampled: 11/08/12

Reported: 12/11/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 11/29/12 05:23

Final Extract Volume: 20 uL

Instrument/Analyst: AS1/PK

Dilution Factor: 1.00

Acid Cleanup: Yes

Silica-Florasil Cleanup: Yes

Silica-Carbon Cleanup: No

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.76	0.65-0.89		0.994	0.841	J
2,3,7,8-TCDD	0.36	0.65-0.89		0.994	0.322	JEMPC
1,2,3,7,8-PeCDF	1.41	1.32-1.78		1.99	0.684	J
2,3,4,7,8-PeCDF	1.30	1.32-1.78		0.994	0.785	JEMPC
1,2,3,7,8-PeCDD	1.50	1.32-1.78		0.994	1.33	
1,2,3,4,7,8-HxCDF	1.15	1.05-1.43		1.99	1.74	J
1,2,3,6,7,8-HxCDF	1.25	1.05-1.43		1.99	1.45	J
2,3,4,6,7,8-HxCDF	1.19	1.05-1.43		1.99	2.14	
1,2,3,7,8,9-HxCDF	1.26	1.05-1.43		1.99	0.751	J
1,2,3,4,7,8-HxCDD	1.20	1.05-1.43		1.99	2.18	
1,2,3,6,7,8-HxCDD	1.16	1.05-1.43		1.99	8.58	
1,2,3,7,8,9-HxCDD	1.30	1.05-1.43		1.99	4.84	
1,2,3,4,6,7,8-HpCDF	0.97	0.88-1.20		1.99	25.4	
1,2,3,4,7,8,9-HpCDF	0.92	0.88-1.20		1.99	1.63	J
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20		1.99	184	
OCDF	0.83	0.76-1.02		4.97	71.9	
OCDD	0.90	0.76-1.02		4.97	1,540	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.994	11.6	13.8
Total TCDD		0.994	3.13	4.22
Total PeCDF		1.99	18.7	22.5
Total PeCDD		0.994	6.26	9.38
Total HxCDF		1.99	45.2	
Total HxCDD		1.99	60.4	
Total HpCDF		1.99	79.2	
Total HpCDD		1.99	473	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 6.75

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 6.75

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-05-S-C-121108

Lab Sample ID: VR82D

LIMS ID: 12-22482

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Date Analyzed: 11/29/12 05:23

Instrument/Analyst: AS1/PK

Sample Amount: 10.1 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	71.2	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	74.8	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	71.7	24-185	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	72.6	21-178	
13C-1,2,3,7,8-PeCDD	1.58	1.32-1.78	72.0	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	71.4	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	71.3	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	67.2	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	82.1	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	71.0	32-141	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	73.7	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	66.6	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	67.6	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20	71.4	23-140	
13C-OCDD	0.89	0.76-1.02	58.4	17-157	
37C14-2,3,7,8-TCDD			92.6	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-06-S-C-121108

Lab Sample ID: VR82E
LIMS ID: 12-22483
Matrix: Sediment
Data Release Authorized: *YWW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 06:15
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.68	0.65-0.89		0.995	0.967	J
2,3,7,8-TCDD	0.42	0.65-0.89		0.995	0.478	JEMPC
1,2,3,7,8-PeCDF	1.38	1.32-1.78		1.99	0.746	J
2,3,4,7,8-PeCDF	1.31	1.32-1.78		0.995	0.826	JEMPC
1,2,3,7,8-PeCDD	1.33	1.32-1.78		0.995	1.58	
1,2,3,4,7,8-HxCDF	1.24	1.05-1.43		1.99	1.90	J
1,2,3,6,7,8-HxCDF	1.09	1.05-1.43		1.99	1.64	J
2,3,4,6,7,8-HxCDF	1.17	1.05-1.43		1.99	2.55	
1,2,3,7,8,9-HxCDF	1.22	1.05-1.43		1.99	0.846	J
1,2,3,4,7,8-HxCDD	1.14	1.05-1.43		1.99	2.65	
1,2,3,6,7,8-HxCDD	1.24	1.05-1.43		1.99	9.51	
1,2,3,7,8,9-HxCDD	1.22	1.05-1.43		1.99	5.68	
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20		1.99	31.3	
1,2,3,4,7,8,9-HpCDF	0.90	0.88-1.20		1.99	1.98	J
1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20		1.99	237	
OCDF	0.83	0.76-1.02		4.98	108	
OCDD	0.89	0.76-1.02		4.98	2,520	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.995	10.6	15.5
Total TCDD		0.995	4.01	4.89
Total PeCDF		1.99	21.0	24.5
Total PeCDD		0.995	5.17	9.24
Total HxCDF		1.99	50.6	51.1
Total HxCDD		1.99	70.1	
Total HpCDF		1.99	104	
Total HpCDD		1.99	803	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 8.39

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 8.39

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-06-S-C-121108

Lab Sample ID: VR82E

LIMS ID: 12-22483

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Date Analyzed: 11/29/12 06:15

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.77	0.65-0.89	48.8	24-169	
13C-2,3,7,8-TCDD	0.79	0.65-0.89	52.1	25-164	
13C-1,2,3,7,8-PeCDF	1.56	1.32-1.78	49.8	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	51.9	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	51.4	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	49.9	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	49.3	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	46.2	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	54.4	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	47.9	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	49.8	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	44.0	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	44.9	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	47.4	23-140	
13C-OCDD	0.90	0.76-1.02	38.9	17-157	
37C14-2,3,7,8-TCDD			91.5	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-07-S-C-121108

Lab Sample ID: VR82F
LIMS ID: 12-22484
Matrix: Sediment
Data Release Authorized: *MMW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 07:07
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisol Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.67	0.65-0.89		0.995	0.643 J
2,3,7,8-TCDD	0.40	0.65-0.89		0.995	0.306 JEMPC
1,2,3,7,8-PeCDF	1.61	1.32-1.78		1.99	0.442 J
2,3,4,7,8-PeCDF	1.25	1.32-1.78		0.995	0.452 JEMPC
1,2,3,7,8-PeCDD	1.37	1.32-1.78		0.995	1.18
1,2,3,4,7,8-HxCDF	1.11	1.05-1.43		1.99	1.20 J
1,2,3,6,7,8-HxCDF	1.07	1.05-1.43		1.99	0.989 J
2,3,4,6,7,8-HxCDF	1.26	1.05-1.43		1.99	1.40 J
1,2,3,7,8,9-HxCDF	1.34	1.05-1.43		1.99	0.386 J
1,2,3,4,7,8-HxCDD	1.23	1.05-1.43		1.99	1.42 J
1,2,3,6,7,8-HxCDD	1.27	1.05-1.43		1.99	4.38
1,2,3,7,8,9-HxCDD	1.17	1.05-1.43		1.99	2.85
1,2,3,4,6,7,8-HpCDF	0.96	0.88-1.20		1.99	14.6
1,2,3,4,7,8,9-HpCDF	0.99	0.88-1.20		1.99	1.06 J
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20		1.99	85.5
OCDF	0.85	0.76-1.02		4.98	40.9
OCDD	0.89	0.76-1.02		4.98	652

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.995	9.29	11.1
Total TCDD		0.995	2.82	4.25
Total PeCDF		1.99	14.1	14.8
Total PeCDD		0.995	8.05	8.33
Total HxCDF		1.99	25.2	25.8
Total HxCDD		1.99	31.3	31.4
Total HpCDF		1.99	43.8	
Total HpCDD		1.99	167	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.18

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.18

Reported in pg/g

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Dioxins/Furans by EPA 1613B
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Sample ID: SG-07-S-C-121108

Lab Sample ID: VR82F
LIMS ID: 12-22484
Matrix: Sediment
Data Release Authorized: *WVW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 07:07
Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	71.2	24-169	
13C-2,3,7,8-TCDD	0.77	0.65-0.89	74.8	25-164	
13C-1,2,3,7,8-PeCDF	1.58	1.32-1.78	72.9	24-185	
13C-2,3,4,7,8-PeCDF	1.58	1.32-1.78	75.1	21-178	
13C-1,2,3,7,8-PeCDD	1.58	1.32-1.78	74.1	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	70.5	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	69.6	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	68.8	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	76.3	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	72.3	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	73.7	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	66.8	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	69.6	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	72.4	23-140	
13C-OCDD	0.88	0.76-1.02	56.9	17-157	
37Cl4-2,3,7,8-TCDD			90.8	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-07-S-C-dup-121108

Lab Sample ID: VR82G
LIMS ID: 12-22485
Matrix: Sediment
Data Release Authorized: *mw*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 08:00
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisol Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.65	0.65-0.89		0.992	0.579	JEMPC
2,3,7,8-TCDD	0.30	0.65-0.89		0.992	0.341	JEMPC
1,2,3,7,8-PeCDF	1.70	1.32-1.78		1.98	0.466	J
2,3,4,7,8-PeCDF	1.46	1.32-1.78		0.992	0.556	J
1,2,3,7,8-PeCDD	1.40	1.32-1.78		0.992	1.03	
1,2,3,4,7,8-HxCDF	1.15	1.05-1.43		1.98	1.05	J
1,2,3,6,7,8-HxCDF	1.17	1.05-1.43		1.98	0.958	J
2,3,4,6,7,8-HxCDF	1.17	1.05-1.43		1.98	1.34	J
1,2,3,7,8,9-HxCDF	1.34	1.05-1.43		1.98	0.411	J
1,2,3,4,7,8-HxCDD	1.25	1.05-1.43		1.98	1.38	J
1,2,3,6,7,8-HxCDD	1.23	1.05-1.43		1.98	4.21	
1,2,3,7,8,9-HxCDD	1.34	1.05-1.43		1.98	2.95	
1,2,3,4,6,7,8-HpCDF	1.01	0.88-1.20		1.98	14.6	
1,2,3,4,7,8,9-HpCDF	0.99	0.88-1.20		1.98	1.14	J
1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20		1.98	82.7	
OCDF	0.85	0.76-1.02		4.96	39.5	
OCDD	0.88	0.76-1.02		4.96	613	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.992	6.77	10.3
Total TCDD		0.992	2.36	3.82
Total PeCDF		1.98	11.8	14.2
Total PeCDD		0.992	6.17	7.29
Total HxCDF		1.98	25.6	
Total HxCDD		1.98	29.6	30.2
Total HpCDF		1.98	43.3	
Total HpCDD		1.98	155	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.02

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.02

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-07-S-C-dup-121108

Lab Sample ID: VR82G
 LIMS ID: 12-22485
 Matrix: Sediment
 Data Release Authorized: *YWW*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 08:00
 Instrument/Analyst: AS1/PK

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	58.5	24-169	
13C-2,3,7,8-TCDD	0.79	0.65-0.89	63.5	25-164	
13C-1,2,3,7,8-PeCDF	1.58	1.32-1.78	59.8	24-185	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	60.5	21-178	
13C-1,2,3,7,8-PeCDD	1.58	1.32-1.78	60.0	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	57.5	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	57.2	26-123	
13C-2,3,4,6,7,8-HxCDF	0.53	0.43-0.59	54.3	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	66.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.28	1.05-1.43	57.6	32-141	
13C-1,2,3,6,7,8-HxCDD	1.23	1.05-1.43	59.2	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	54.4	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	55.0	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	58.7	23-140	
13C-OCDD	0.89	0.76-1.02	45.5	17-157	
37Cl4-2,3,7,8-TCDD			96.3	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-08-S-C-121108

Lab Sample ID: VR82H

LIMS ID: 12-22486

Matrix: Sediment

Data Release Authorized: *mmw*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Date Analyzed: 11/29/12 08:52

Instrument/Analyst: AS1/PK

Acid Cleanup: Yes

Silica-Carbon Cleanup: No

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.83	0.65-0.89		0.978	0.553 J
2,3,7,8-TCDD	0.23	0.65-0.89		0.978	0.293 JEMPC
1,2,3,7,8-PeCDF	1.14	1.32-1.78		1.96	0.409 JEMPC
2,3,4,7,8-PeCDF	1.41	1.32-1.78		0.978	0.540 J
1,2,3,7,8-PeCDD	1.56	1.32-1.78		0.978	0.870 J
1,2,3,4,7,8-HxCDF	1.07	1.05-1.43		1.96	1.30 J
1,2,3,6,7,8-HxCDF	1.23	1.05-1.43		1.96	0.964 J
2,3,4,6,7,8-HxCDF	1.28	1.05-1.43		1.96	1.37 J
1,2,3,7,8,9-HxCDF	0.96	1.05-1.43		1.96	0.366 JEMPC
1,2,3,4,7,8-HxCDD	1.30	1.05-1.43		1.96	1.36 J
1,2,3,6,7,8-HxCDD	1.30	1.05-1.43		1.96	3.85
1,2,3,7,8,9-HxCDD	1.39	1.05-1.43		1.96	2.99
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20		1.96	18.7
1,2,3,4,7,8,9-HpCDF	0.80	0.88-1.20		1.96	1.83 JEMPC
1,2,3,4,6,7,8-HpCDD	1.06	0.88-1.20		1.96	88.5
OCDF	0.83	0.76-1.02		4.89	66.0
OCDD	0.90	0.76-1.02		4.89	684

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.978	7.13	9.21
Total TCDD		0.978	1.78	3.33
Total PeCDF		1.96	9.25	12.8
Total PeCDD		0.978	5.73	6.12
Total HxCDF		1.96	25.2	25.7
Total HxCDD		1.96	26.8	27.2
Total HpCDF		1.96	55.1	57.2
Total HpCDD		1.96	160	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 3.93

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.93

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

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Sample ID: SG-08-S-C-121108

Lab Sample ID: VR82H

LIMS ID: 12-22486

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/14/12

Date Analyzed: 11/29/12 08:52

Instrument/Analyst: AS1/PK

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.77	0.65-0.89	62.2	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	66.4	25-164	
13C-1,2,3,7,8-PeCDF	1.56	1.32-1.78	65.4	24-185	
13C-2,3,4,7,8-PeCDF	1.58	1.32-1.78	64.2	21-178	
13C-1,2,3,7,8-PeCDD	1.58	1.32-1.78	64.9	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	60.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	60.2	26-123	
13C-2,3,4,6,7,8-HxCDF	0.53	0.43-0.59	57.2	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	69.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.28	1.05-1.43	61.4	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	62.7	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	56.9	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	58.6	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	61.0	23-140	
13C-OCDD	0.89	0.76-1.02	48.3	17-157	
37C14-2,3,7,8-TCDD			89.3	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
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Sample ID: SG-09-S-C-121108

Lab Sample ID: VR82I
LIMS ID: 12-22487
Matrix: Sediment
Data Release Authorized: *MW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted: 11/14/12
Date Analyzed: 11/29/12 09:44
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.72	0.65-0.89		0.985	0.784 J
2,3,7,8-TCDD	0.39	0.65-0.89		0.985	0.372 JEMPC
1,2,3,7,8-PeCDF	1.79	1.32-1.78		1.97	0.577 JEMPC
2,3,4,7,8-PeCDF	1.39	1.32-1.78		0.985	0.573 J
1,2,3,7,8-PeCDD	1.62	1.32-1.78		0.985	1.24
1,2,3,4,7,8-HxCDF	1.10	1.05-1.43		1.97	1.43 J
1,2,3,6,7,8-HxCDF	1.16	1.05-1.43		1.97	1.23 J
2,3,4,6,7,8-HxCDF	1.15	1.05-1.43		1.97	1.74 J
1,2,3,7,8,9-HxCDF	1.16	1.05-1.43		1.97	0.497 J
1,2,3,4,7,8-HxCDD	1.28	1.05-1.43		1.97	1.71 J
1,2,3,6,7,8-HxCDD	1.27	1.05-1.43		1.97	5.03
1,2,3,7,8,9-HxCDD	1.23	1.05-1.43		1.97	3.54
1,2,3,4,6,7,8-HpCDF	0.95	0.88-1.20		1.97	17.7
1,2,3,4,7,8,9-HpCDF	0.81	0.88-1.20		1.97	1.33 JEMPC
1,2,3,4,6,7,8-HpCDD	1.02	0.88-1.20		1.97	103
OCDF	0.84	0.76-1.02		4.93	46.6
OCDD	0.89	0.76-1.02		4.93	798

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.985	7.77	12.2
Total TCDD		0.985	2.61	4.12
Total PeCDF		1.97	12.3	17.1
Total PeCDD		0.985	4.37	7.92
Total HxCDF		1.97	30.5	30.6
Total HxCDD		1.97	34.4	35.0
Total HpCDF		1.97	51.1	52.8
Total HpCDD		1.97	191	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.87

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.87

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
 Page 1 of 1

Sample ID: SG-09-S-C-121108

Lab Sample ID: VR82I
 LIMS ID: 12-22487
 Matrix: Sediment
 Data Release Authorized: *MW*
 Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/14/12
 Date Analyzed: 11/29/12 09:44
 Instrument/Analyst: AS1/PK

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 20 uL
 Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	51.1	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	54.7	25-164	
13C-1,2,3,7,8-PeCDF	1.58	1.32-1.78	50.5	24-185	
13C-2,3,4,7,8-PeCDF	1.58	1.32-1.78	51.0	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	51.9	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	49.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	49.5	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	46.8	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	58.0	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	49.4	32-141	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	51.7	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	45.5	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	47.6	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20	49.9	23-140	
13C-OCDD	0.91	0.76-1.02	39.2	17-157	
37Cl4-2,3,7,8-TCDD			84.3	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: SRM-111412

PSR

Lab Sample ID: SRM-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *mw*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 13:49

Instrument/Analyst: AS1/PK

Acid Cleanup: Yes

Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.73	0.65-0.89		0.998	0.918	J
2,3,7,8-TCDD	0.72	0.65-0.89		0.998	1.08	
1,2,3,7,8-PeCDF	1.23	1.32-1.78		2.00	1.05	JEMPC
2,3,4,7,8-PeCDF	1.34	1.32-1.78		0.998	0.898	J
1,2,3,7,8-PeCDD	1.49	1.32-1.78		0.998	1.22	
1,2,3,4,7,8-HxCDF	1.22	1.05-1.43		2.00	3.27	
1,2,3,6,7,8-HxCDF	1.27	1.05-1.43		2.00	1.12	J
2,3,4,6,7,8-HxCDF	1.29	1.05-1.43		2.00	2.12	
1,2,3,7,8,9-HxCDF	1.14	1.05-1.43		2.00	0.667	J
1,2,3,4,7,8-HxCDD	1.18	1.05-1.43		2.00	1.53	J
1,2,3,6,7,8-HxCDD	1.27	1.05-1.43		2.00	4.15	
1,2,3,7,8,9-HxCDD	1.19	1.05-1.43		2.00	2.96	
1,2,3,4,6,7,8-HpCDF	0.95	0.88-1.20		2.00	20.0	
1,2,3,4,7,8,9-HpCDF	0.92	0.88-1.20		2.00	1.87	J
1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20		2.00	106	
OCDF	0.83	0.76-1.02		4.99	58.3	
OCDD	0.88	0.76-1.02		4.99	892	

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		0.998	10.9	13.3
Total TCDD		0.998	4.60	5.78
Total PeCDF		2.00	15.0	17.1
Total PeCDD		0.998	5.44	7.38
Total HxCDF		2.00	32.9	33.0
Total HxCDD		2.00	36.2	
Total HpCDF		2.00	67.3	
Total HpCDD		2.00	266	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 5.84

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 5.84

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: SRM-111412

PSR

Lab Sample ID: SRM-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *mmw*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 13:49

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	78.4	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	85.0	25-164	
13C-1,2,3,7,8-PeCDF	1.56	1.32-1.78	81.8	24-185	
13C-2,3,4,7,8-PeCDF	1.55	1.32-1.78	83.2	21-178	
13C-1,2,3,7,8-PeCDD	1.59	1.32-1.78	81.6	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	81.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	81.5	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	76.8	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	99.8	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	84.7	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	83.6	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	73.8	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	78.2	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	78.4	23-140	
13C-OCDD	0.89	0.76-1.02	61.6	17-157	
37C14-2,3,7,8-TCDD			90.6	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: OPR-111412

Lab Sample ID: OPR-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *WW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 12:58

Instrument/Analyst: AS1/PK

Acid Cleanup: Yes

Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	RL	Result
2,3,7,8-TCDF	0.71	0.65-0.89	1.00	22.1
2,3,7,8-TCDD	0.79	0.65-0.89	1.00	21.2
1,2,3,7,8-PeCDF	1.46	1.32-1.78	2.00	109
2,3,4,7,8-PeCDF	1.44	1.32-1.78	1.00	108
1,2,3,7,8-PeCDD	1.56	1.32-1.78	1.00	107
1,2,3,4,7,8-HxCDF	1.18	1.05-1.43	2.00	108
1,2,3,6,7,8-HxCDF	1.16	1.05-1.43	2.00	109
2,3,4,6,7,8-HxCDF	1.18	1.05-1.43	2.00	119
1,2,3,7,8,9-HxCDF	1.18	1.05-1.43	2.00	109
1,2,3,4,7,8-HxCDD	1.25	1.05-1.43	2.00	111
1,2,3,6,7,8-HxCDD	1.26	1.05-1.43	2.00	107
1,2,3,7,8,9-HxCDD	1.22	1.05-1.43	2.00	107
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20	2.00	118
1,2,3,4,7,8,9-HpCDF	0.98	0.88-1.20	2.00	110
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	2.00	105
OCDF	0.85	0.76-1.02	5.00	209
OCDD	0.89	0.76-1.02	5.00	213

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC
Total TCDF		1.00	22.8	23.4
Total TCDD		1.00	21.7	21.9
Total PeCDF		2.00	222	223
Total PeCDD		1.00	108	
Total HxCDF		2.00	446	
Total HxCDD		2.00	326	
Total HpCDF		2.00	229	
Total HpCDD		2.00	107	

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: OPR-111412

Lab Sample ID: OPR-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *YWW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 12:58

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.78	0.65-0.89	80.3	22-152	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	85.2	20-175	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	84.2	21-192	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	81.2	13-328	
13C-1,2,3,7,8-PeCDD	1.59	1.32-1.78	83.4	21-227	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	85.2	19-202	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	88.5	21-159	
13C-2,3,4,6,7,8-HxCDF	0.53	0.43-0.59	78.8	22-176	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	82.7	17-205	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	85.6	21-193	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	90.0	25-163	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	76.6	21-158	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	79.0	20-186	
13C-1,2,3,4,6,7,8-HpCDD	1.06	0.88-1.20	83.8	26-166	
13C-OCDD	0.90	0.76-1.02	69.2	13-198	
37C14-2,3,7,8-TCDD			90.4	31-191	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: OPR-111412

Lab Sample ID: OPR-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *mm*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 12:58

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	OPR	Spiked	Recovery	Limits
2,3,7,8-TCDF	22.1	20.0	110	75-158
2,3,7,8-TCDD	21.2	20.0	106	67-158
1,2,3,7,8-PeCDF	109	100	109	80-134
2,3,4,7,8-PeCDF	108	100	108	68-160
1,2,3,7,8-PeCDD	107	100	107	70-142
1,2,3,4,7,8-HxCDF	108	100	108	72-134
1,2,3,6,7,8-HxCDF	109	100	109	84-130
2,3,4,6,7,8-HxCDF	119	100	119	70-156
1,2,3,7,8,9-HxCDF	109	100	109	78-130
1,2,3,4,7,8-HxCDD	111	100	111	70-164
1,2,3,6,7,8-HxCDD	107	100	107	76-134
1,2,3,7,8,9-HxCDD	107	100	107	64-162
1,2,3,4,6,7,8-HpCDF	118	100	118	82-132
1,2,3,4,7,8,9-HpCDF	110	100	110	78-138
1,2,3,4,6,7,8-HpCDD	105	100	105	70-140
OCDF	209	200	104	63-170
OCDD	213	200	106	78-144

Reported in pg/g

4DF - FORM IV-HR CDD
 CDD/CDF METHOD BLANK SUMMARY
 HIGH RESOLUTION

Blank No.

VR58MB

Lab Name: ANALYTICAL RESOURCES, INC.

Contract: ANCHOR

Lab Code: VR58

Project: CITY OF KENMORE

Matrix: (Soil/Water/Ash/Tissue/Oil) SOIL

Lab Sample ID: VR58MBS

Sample wt/vol: 10 (g/ml) g

Lab File ID: 12112804

Water Sample Prep: (sep/spe)

Date Received: 08-NOV-12

GC Column: RTX-DIOXIN2 ID: 0.25 mm

Date Extracted: 14-NOV-12

Instrument ID: AUTOSPEC1

Date Analyzed: 28-NOV-12

Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
VR58OPR	VR58OPR	12112805	11/28/12
VR58SRM	VR58SRM	12112806	11/28/12
SG-10-S-E-121107	VR58A	12112807	11/28/12
SG-11-S-E-121107	VR58B	12112808	11/28/12
SG-12-S-E-121107	VR58C	12112809	11/28/12
SG-13-S-E-121107	VR58D	12112810	11/28/12
SG-13-S-E-DUP-121107	VR58E	12112812	11/28/12
SG-14-S-E-121107	VR58F	12112813	11/28/12
SG-15-S-E-121107	VR58G	12112814	11/28/12
SG-16-S-E-121107	VR58H	12112815	11/28/12
SG-17-S-E-121107	VR58I	12112816	11/28/12
SG-01-S-C-121107	VR58J	12112817	11/28/12
SG-02-S-C-1211	VR82A	12112818	11/29/12
SG-03-S-C-1211	VR82B	12112819	11/29/12
SG-04-S-C-1211	VR82C	12112821	11/29/12
SG-04-S-C-1211	VR82CDUP	12112822	11/29/12
SG-05-S-C-1211	VR82D	12112823	11/29/12
SG-06-S-C-1211	VR82E	12112824	11/29/12
SG-07-S-C-1211	VR82F	12112825	11/29/12
SG-07-S-C-DUP-1211	VR82G	12112826	11/29/12
SG-08-S-C-1211	VR82H	12112827	11/29/12
SG-09-S-C-1211	VR82I	12112828	11/29/12
SG-11-S-E-121107	VR58B 5X	12112830	11/29/12
SG-12-S-E-121107	VR58C 5X	12112831	11/29/12
SG-13-S-E-121107	VR58D 5X	12112832	11/29/12
SG-02-S-C-1211	VR82A 5X	12112833	11/29/12

ORGANICS ANALYSIS DATA SHEET
Dioxins/Furans by EPA 1613B
Page 1 of 1

Sample ID: MB-111412

Lab Sample ID: MB-111412
LIMS ID: 12-22481
Matrix: Sediment
Data Release Authorized: *MW*
Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: NA
Date Received: NA

Date Extracted: 11/14/12
Date Analyzed: 11/28/12 12:05
Instrument/Analyst: AS1/PK
Acid Cleanup: Yes
Silica-Carbon Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 20 uL
Dilution Factor: 1.00
Silica-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.71	0.65-0.89		1.00	0.0320	J
2,3,7,8-TCDD		0.65-0.89	0.164	1.00	< 0.164	U
1,2,3,7,8-PeCDF		1.32-1.78	0.0340	2.00	< 0.0340	U
2,3,4,7,8-PeCDF		1.32-1.78	0.0340	1.00	< 0.0340	U
1,2,3,7,8-PeCDD		1.32-1.78	0.0300	1.00	< 0.0300	U
1,2,3,4,7,8-HxCDF		1.05-1.43	0.0260	2.00	< 0.0260	U
1,2,3,6,7,8-HxCDF		1.05-1.43	0.0240	2.00	< 0.0240	U
2,3,4,6,7,8-HxCDF		1.05-1.43	0.0280	2.00	< 0.0280	U
1,2,3,7,8,9-HxCDF	1.14	1.05-1.43		2.00	0.0260	J
1,2,3,4,7,8-HxCDD		1.05-1.43	0.0300	2.00	< 0.0300	U
1,2,3,6,7,8-HxCDD		1.05-1.43	0.0300	2.00	< 0.0300	U
1,2,3,7,8,9-HxCDD		1.05-1.43	0.0300	2.00	< 0.0300	U
1,2,3,4,6,7,8-HpCDF	0.51	0.88-1.20		2.00	0.0640	JEMPC
1,2,3,4,7,8,9-HpCDF		0.88-1.20	0.0200	2.00	< 0.0200	U
1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20		2.00	0.248	J
OCDF	0.52	0.76-1.02		5.00	0.0560	JEMPC
OCDD	0.86	0.76-1.02		5.00	1.50	J

Homologue Group	EDL	RL	W/O EMPC	WITH EMPC	
Total TCDF		1.00	0.0320	0.0440	
Total TCDD	0.164	1.00	< 0.164	0.0340	U
Total PeCDF	0.0340	2.00	< 0.0340		U
Total PeCDD	0.0300	1.00	< 0.0300		U
Total HxCDF		2.00	0.0260		
Total HxCDD	0.0300	2.00	0.0340	0.0880	
Total HpCDF		2.00	< 0.0200	0.0580	U
Total HpCDD		2.00	0.550		

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.01

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.12

Reported in pg/g

ORGANICS ANALYSIS DATA SHEET

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: MB-111412

Lab Sample ID: MB-111412

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/11/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/14/12

Date Analyzed: 11/28/12 12:05

Instrument/Analyst: AS1/PK

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 20 uL

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.77	0.65-0.89	89.8	24-169	
13C-2,3,7,8-TCDD	0.79	0.65-0.89	96.4	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	93.9	24-185	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	89.8	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	91.6	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	94.3	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	101	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	89.8	28-136	
13C-1,2,3,7,8,9-HxCDF	0.51	0.43-0.59	91.8	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	98.0	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	103	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	85.3	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	86.5	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	93.8	23-140	
13C-OCDD	0.88	0.76-1.02	80.6	17-157	
37C14-2,3,7,8-TCDD			103	35-197	

Reported in Percent Recovery

5DFA - FORM V-HR CDD-1
CDD/CDF WINDOW DEFINING MIX (WDM) SUMMARY
HIGH RESOLUTION

Standard No.

CS3

Lab Name: ANALYTICAL RESOURCES, INC. Contract: ANCHOR
Lab Code: VR58 Project: CITY OF KENMORE
GC Column: RTX-DIOXIN2 ID: 0.25 mm Lab File ID: 12112802
Instrument ID: AUTOSPEC1 Date Analyzed: 28-NOV-12
Time Analyzed: 10:02

CDD/CDF	RT First Eluting	RT Last Eluting
TCDD	23.88	27.32
TCDF	22.60	27.57
PeCDD	29.10	32.22
PeCDF	27.44	32.60
HxCDD	34.31	37.03
HxCDF	33.52	37.48
HpCDD	40.09	41.36
HpCDF	39.54	42.24

5DFB - FORM V-HR CDD-2
CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY
HIGH RESOLUTION

Standard No.

TETRA ISC

Lab Name: ANALYTICAL RESOURCES, INC.
Lab Code: VR58
GC Column: RTX-DIOXIN2 ID: .25 mm
Instrument ID:
AUTOSPEC1

Contract: ANCHOR
Project: CITY OF KENMORE
Lab File ID: 12112803
Date Analyzed: 28-NOV-12
Time Analyzed: 10:52

Percent Valley determination for RTX-DIOXIN2 column -
For the column performance solution beginning 12-hour period:

1278-TCDD/2378-TCDD: 8.5

Quality Control (QC) Limits:

Percent Valley between the TCDD isomers must be less than or equal to 25%

Percent Valley determination for RTX-DIOXIN2 column -
For the column performance solution beginning 12-hour period:

3467-TCDF/2378-TCDF: 8.2

QC Limits:

Percent Valley between the TCDD/TCDF isomers must be less than or equal to 25%

5DFB - FORM V-HR CDD-3
CDD/CDF ANALYTICAL SEQUENCE SUMMARY
HIGH RESOLUTION

Lab Name: ANALYTICAL RESOURCES, INC.

Contract: ANCHOR

Lab Code: VR58

Project: CITY OF KENMORE

GC Column: RTX-DIOXIN2 ID: 0.25 mm

Instrument ID: AUTOSPEC1

Init. Calib. Date(s): 23-NOV-12

Init: Calib. Times: 14:07 to 18:30

The Analytical Sequence of standards, samples, blanks, and Laboratory Control Samples (LCS) is as follows:

Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
I7214	CS3	12112802	11/23/12	1002
1997-2	TETRA ISC	12112803	11/23/12	1052
VR58MB	VR58MBS	12112804	11/23/12	1206
VR58OPR	VR58OPR	12112805	11/28/12	1258
VR58SRM	VR58SRM	12112806	11/28/12	1349
SG-10-S-E-121107	VR58A	12112807	11/28/12	1506
SG-11-S-E-121107	VR58B	12112808	11/28/12	1556
SG-12-S-E-121107	VR58C	12112809	11/28/12	1648
SG-13-S-E-121107	VR58D	12112810	11/28/12	1741
I7214	CS3	12112811	11/28/12	1833
SG-13-S-E-DUP-121107	VR58E	12112812	11/28/12	1933
SG-14-S-E-121107	VR58F	12112813	11/28/12	2029
SG-15-S-E-121107	VR58G	12112814	11/28/12	2121
SG-16-S-E-121107	VR58H	12112815	11/28/12	2213
SG-17-S-E-121107	VR58I	12112816	11/28/12	2306
SG-01-S-C-121107	VR58J	12112817	11/28/12	2358
SG-02-S-C-1211	VR82A	12112818	11/29/12	0050
SG-03-S-C-1211	VR82B	12112819	11/29/12	0143
I7214	CS3	12112820	11/28/12	0236
SG-04-S-C-1211	VR82C	12112821	11/29/12	0335
SG-04-S-C-1211	VR82CDUP	12112822	11/29/12	0431
SG-05-S-C-1211	VR82D	12112823	11/29/12	0523
SG-06-S-C-1211	VR82E	12112824	11/29/12	0615
SG-07-S-C-1211	VR82F	12112825	11/29/12	0707
SG-07-S-C-DUP-1211	VR82G	12112826	11/29/12	0800
SG-08-S-C-1211	VR82H	12112827	11/29/12	0852
SG-09-S-C-1211	VR82I	12112828	11/29/12	0944

5DFB - FORM V-HR CDD-3
 CDD/CDF ANALYTICAL SEQUENCE SUMMARY
 HIGH RESOLUTION

Lab Name: ANALYTICAL RESOURCES, INC.

Contract: ANCHOR

Lab Code: VR58

Project: CITY OF KENMORE

GC Column: RTX-DIOXIN2 ID: 0.25 mm

Instrument ID: AUTOSPEC1

Init. Calib. Date(s): 23-NOV-12

Init: Calib. Times: 14:07 to 18:30

The Analytical Sequence of standards, samples, blanks, and Laboratory Control Samples (LCS) is as follows:

Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
I7214	CS3	12112829	11/29/12	1037
SG-11-S-E-121107	VR58B 5X	12112830	11/29/12	1200
SG-12-S-E-121107	VR58C 5X	12112831	11/29/12	1251
SG-13-S-E-121107	VR58D 5X	12112832	11/29/12	1343
SG-02-S-C-1211	VR82A 5X	12112833	11/29/12	1435
I7214	CS3	12112835	11/29/12	1620

6DFA - Form VI-HR CDD-1
CDD/CDF INITIAL CALIBRATION RESPONSE FACTOR SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1		
Init. Calib. Date CSL:	23-Nov-12	Init. Calib. Time CSL:	14:07:24
Init. Calib. Date CS1:	23-Nov-12	Init. Calib. Time CS1:	15:02:34
Init. Calib. Date CS2:	23-Nov-12	Init. Calib. Time CS2:	15:55:02
Init. Calib. Date CS3:	23-Nov-12	Init. Calib. Time CS3:	16:45:35
Init. Calib. Date CS4:	23-Nov-12	Init. Calib. Time CS4:	17:37:45
Init. Calib. Date CS5:	23-Nov-12	Init. Calib. Time CS5:	18:30:06

Target Analytes	RR/RRF						Mean RR/RRF	% RSD	Limits (% +/-)
	CSL	CS1	CS2	CS3	CS4	CS5			
2378-TCDD	1.14	1.03	1.01	1.03	1.04	1.05	1.05	4.5	20.0
2378-TCDF	0.97	0.80	0.86	0.86	0.88	0.89	0.88	6.3	20.0
12378-PeCDF	0.90	0.89	0.87	0.89	0.91	0.91	0.90	1.6	20.0
12378-PeCDD	0.99	0.98	0.99	0.99	1.01	1.03	1.00	1.7	20.0
23478-PeCDF	0.97	0.89	0.90	0.92	0.94	0.94	0.93	3.2	20.0
123478-HxCDF	1.06	1.05	1.05	1.05	1.09	1.11	1.07	2.1	20.0
123678-HxCDF	1.02	1.01	1.01	1.04	1.06	1.07	1.03	2.4	20.0
123478-HxCDD	0.91	0.96	0.97	0.98	1.00	1.00	0.97	3.4	20.0
123678-HxCDD	0.89	0.92	0.90	0.92	0.92	0.95	0.92	2.0	20.0
123789-HxCDD ²	0.95	0.91	0.92	0.95	0.91	0.95	0.93	2.2	20.0
234678-HxCDF	1.02	1.01	1.03	1.03	1.06	1.07	1.04	2.1	20.0
123789-HxCDF	0.97	0.96	0.99	0.98	1.01	1.02	0.99	2.3	20.0
1234678-HpCDF	1.25	1.21	1.20	1.22	1.25	1.25	1.23	1.9	20.0
1234678-HpCDD	1.08	0.98	0.99	1.00	1.02	1.03	1.02	3.4	20.0
1234789-HpCDF	1.19	1.20	1.20	1.21	1.25	1.25	1.22	2.2	20.0
OCDD	1.04	1.01	0.98	0.99	1.01	1.02	1.01	2.3	20.0
OCDF ¹	1.11	1.10	1.12	1.15	1.16	1.18	1.14	2.7	20.0

(1) The Relative Response (RR) is calculated based on the labeled analogs of the other two HxCDDs.
(2) The RR is calculated based on the labeled analog of OCDD.

Labeled Compounds	RR/RRF						Mean RR/RRF	% RSD	Limits (% +/-)
	CSL	CS1	CS2	CS3	CS4	CS5			
13C-2378-TCDD	0.95	0.91	0.97	0.94	0.89	1.00	0.95	4.1	35.0
13C-12378-PeCDD	0.72	0.68	0.72	0.68	0.67	0.86	0.72	9.7	35.0
13C-123478-HxCDD	0.97	0.99	0.97	0.98	1.02	1.00	0.99	2.0	35.0
13C-123678-HxCDD	1.00	1.02	1.02	1.01	1.06	1.03	1.02	2.0	35.0
13C-1234678-HpCDD	0.85	0.85	0.89	0.86	0.87	0.88	0.87	2.0	35.0
13C-OCDD	0.73	0.73	0.80	0.72	0.80	0.84	0.77	6.4	35.0
13C-2378-TCDF	1.48	1.43	1.54	1.47	1.40	1.52	1.47	3.5	35.0
13C-12378-PeCDF	1.13	1.09	1.15	1.09	1.09	1.33	1.15	8.2	35.0
13C-23478-PeCDF	1.11	1.05	1.13	1.05	1.04	1.30	1.11	8.7	35.0
13C-123478-HxCDF	1.16	1.24	1.20	1.22	1.25	1.18	1.21	3.0	35.0
13C-123678-HxCDF	1.22	1.29	1.25	1.27	1.33	1.25	1.27	3.1	35.0
13C-234678-HxCDF	1.21	1.24	1.23	1.24	1.27	1.22	1.24	1.8	35.0
13C-123789-HxCDF	1.11	1.10	1.13	1.11	1.09	1.10	1.11	1.0	35.0
13C-1234678-HpCDF	1.03	1.04	1.06	1.04	1.08	1.06	1.05	1.7	35.0
13C-1234789-HpCDF	0.80	0.79	0.86	0.81	0.81	0.83	0.81	3.0	35.0

6DFB - Form VI-HR CDD-2

CDD/CDF INITIAL CALIBRATION ION ABUNDANCE RATIO SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1		
Init. Calib. Date CSL:	23-Nov-12	Init. Calib. Time CSL:	14:07:24
Init. Calib. Date CS1:	23-Nov-12	Init. Calib. Time CS1:	15:02:34
Init. Calib. Date CS2:	23-Nov-12	Init. Calib. Time CS2:	15:55:02
Init. Calib. Date CS3:	23-Nov-12	Init. Calib. Time CS3:	16:45:35
Init. Calib. Date CS4:	23-Nov-12	Init. Calib. Time CS4:	17:37:45
Init. Calib. Date CS5:	23-Nov-12	Init. Calib. Time CS5:	18:30:06

Target Analytes	Selected Ions	Ion Abundance Ratio						Ratio Flag	Ratio QC Limits [#]
		CSL	CS1	CS2	CS3	CS4	CS5		
2378-TCDD	320/322	0.77	0.78	0.75	0.77	0.78	0.77		0.65 - 0.89
2378-TCDF	304/306	0.76	0.74	0.72	0.74	0.75	0.75		0.65 - 0.89
12378-PeCDF	340/342	1.47	1.50	1.46	1.48	1.49	1.46		1.32 - 1.78
12378-PeCDD	356/358	1.48	1.57	1.54	1.56	1.55	1.55		1.32 - 1.78
23478-PeCDF	340/342	1.49	1.43	1.45	1.47	1.48	1.45		1.32 - 1.78
123478-HxCDF	374/376	1.23	1.16	1.19	1.19	1.19	1.19		1.05 - 1.43
123678-HxCDF	374/376	1.18	1.15	1.20	1.18	1.19	1.18		1.05 - 1.43
123478-HxCDD	390/392	1.31	1.26	1.26	1.22	1.25	1.25		1.05 - 1.43
123678-HxCDD	390/392	1.37	1.26	1.23	1.24	1.24	1.24		1.05 - 1.43
123789-HxCDD	390/392	1.13	1.21	1.18	1.25	1.24	1.24		1.05 - 1.43
234678-HxCDF	374/376	1.15	1.13	1.19	1.19	1.18	1.19		1.05 - 1.43
123789-HxCDF	374/376	1.24	1.20	1.20	1.20	1.18	1.19		1.05 - 1.43
1234678-HpCDF	408/410	1.05	0.99	0.97	0.98	0.99	1.00		0.89 - 1.21
1234678-HpCDD	424/426	0.90	0.98	1.05	1.04	1.04	1.04		0.89 - 1.21
1234789-HpCDF	408/410	0.96	0.96	0.98	0.98	0.99	1.00		0.89 - 1.21
OCDD	458/460	0.92	0.92	0.89	0.89	0.88	0.89		0.76 - 1.02
OCDF	442/444	0.81	0.88	0.86	0.87	0.87	0.88		0.76 - 1.02

Labeled Compounds	Selected Ions	Ion Abundance Ratio						Ratio Flag	Ratio QC Limits
		CSL	CS1	CS2	CS3	CS4	CS5		
13C-2378-TCDD	332/334	0.78	0.78	0.78	0.76	0.78	0.77		0.65 - 0.89
13C-12378-PeCDD	368/370	1.59	1.57	1.57	1.58	1.57	1.57		1.32 - 1.78
13C-123478-HxCDD	402/404	1.27	1.26	1.27	1.28	1.26	1.26		1.05 - 1.43
13C-123678-HxCDD	402/404	1.24	1.24	1.25	1.24	1.25	1.25		1.05 - 1.43
13C-1234678-HpCDD	436/438	1.06	1.05	1.06	1.05	1.03	1.05		0.89 - 1.21
13C-OCDD	470/472	0.89	0.90	0.89	0.89	0.89	0.89		0.76 - 1.02
13C-2378-TCDF	316/318	0.78	0.78	0.79	0.78	0.79	0.78		0.65 - 0.89
13C-12378-PeCDF	352/354	1.55	1.56	1.57	1.57	1.55	1.56		1.32 - 1.78
13C-23478-PeCDF	352/354	1.56	1.56	1.56	1.55	1.56	1.56		1.32 - 1.78
13C-123478-HxCDF	384/386	0.52	0.52	0.52	0.52	0.51	0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	0.53	0.52	0.52	0.52	0.52	0.52		0.43 - 0.59
13C-234678-HxCDF	384/386	0.52	0.52	0.52	0.52	0.52	0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	0.52	0.52	0.52	0.52	0.53	0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	0.45	0.45	0.44	0.45	0.45	0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.45	0.45	0.44	0.44	0.45	0.45		0.37 - 0.51

Internal Standards	Selected Ions	Ion Abundance Ratio						Ratio Flag	Ion Ratio QC Limits
		CSL	CS1	CS2	CS3	CS4	CS5		
13C-1234-TCDD	332/334	0.79	0.79	0.79	0.79	0.79	0.78		0.65 - 0.89
13C-123789-HxCDD	402/404	1.26	1.25	1.25	1.25	1.23	1.25		1.05 - 1.43

(#) Quality Control (QC) limits represent $\pm 15\%$ window around the theoretical ion abundance ratio. The laboratory must flag any analyte in any calibration solution which does not meet the ion abundance ratio QC limit by placing an asterisk in the flag column.

7DFA - Form VII-HR CDD-1
CDD/CDF CONTINUING CALIBRATION SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112802
Date Analysed	28-Nov-12	Time Analysed	10:02:21
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
2378-TCDD	320/322	1.00	1.05	-4.9		0.78		0.65 - 0.89
2378-TCDF	304/306	0.86	0.88	-1.8		0.73		0.65 - 0.89
12378-PeCDF	340/342	0.89	0.90	-1.2		1.46		1.32 - 1.78
12378-PeCDD	356/358	0.98	1.00	-1.3		1.55		1.32 - 1.78
23478-PeCDF	340/342	0.92	0.93	-1.0		1.49		1.32 - 1.78
123478-HxCDF	374/376	1.06	1.07	-0.5		1.19		1.05 - 1.43
123678-HxCDF	374/376	1.05	1.03	1.2		1.20		1.05 - 1.43
123478-HxCDD	390/392	0.96	0.97	-1.1		1.24		1.05 - 1.43
123678-HxCDD	390/392	0.93	0.92	1.1		1.23		1.05 - 1.43
123789-HxCDD	390/392	0.94	0.93	1.2		1.24		1.05 - 1.43
234678-HxCDF	374/376	1.05	1.04	0.9		1.19		1.05 - 1.43
123789-HxCDF	374/376	0.99	0.99	0.6		1.20		1.05 - 1.43
1234678-HpCDF	408/410	1.21	1.23	-2.1		0.99		0.89 - 1.21
1234678-HpCDD	424/426	1.01	1.02	-0.7		1.03		0.89 - 1.21
1234789-HpCDF	408/410	1.24	1.22	1.6		0.97		0.89 - 1.21
OCDD	458/460	0.99	1.01	-1.8		0.89		0.76 - 1.02
OCDF	442/444	1.15	1.14	0.9		0.85		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
13C-2378-TCDD	332/334	0.95	0.95	0.7		0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	0.69	0.72	-4.6		1.58		1.32 - 1.78
13C-123478-HxCDD	402/404	0.97	0.99	-1.9		1.26		1.05 - 1.43
13C-123678-HxCDD	402/404	1.02	1.02	-0.8		1.25		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.86	0.87	-0.4		1.05		0.89 - 1.21
13C-OCDD	470/472	0.74	0.77	-3.8		0.90		0.76 - 1.02
13C-2378-TCDF	316/318	1.50	1.47	1.6		0.78		0.65 - 0.89
13C-12378-PeCDF	352/354	1.11	1.15	-3.4		1.57		1.32 - 1.78
13C-23478-PeCDF	352/354	1.07	1.11	-3.5		1.57		1.32 - 1.78
13C-123478-HxCDF	384/386	1.17	1.21	-3.2		0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	1.25	1.27	-1.2		0.51		0.43 - 0.59
13C-234678-HxCDF	384/386	1.21	1.24	-1.8		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.11	1.11	0.2		0.53		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.04	1.05	-1.1		0.44		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.82	0.81	0.5		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
37CL-2378-TCDD	328	1.04	1.04	-0.2		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ion Ratio Flag*	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.79		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.25		1.05 - 1.43

(*) The laboratory must flag any analyte which does not meet the criteria for Percentage Difference (%D) or ion abundance ratio by placing an asterisk in the appropriate flag column.

7DFB - Form VII-HR CDD-2
CDD/CDF CONTINUING CALIBRATION RETENTION TIME SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112802
Date Analysed:	28-Nov-12	Time Analysed:	10:02:21
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	RRT [#]	RT
2378-TCDD	1.00	26.74
2378-TCDF	1.00	26.09
12378-PeCDF	1.00	30.23
12378-PeCDD	1.00	31.83
23478-PeCDF	1.00	31.57
123478-HxCDF	1.00	35.24
123678-HxCDF	1.00	35.40
123478-HxCDD	1.00	36.47
123678-HxCDD	1.00	36.60
123789-HxCDD	1.01	37.03
234678-HxCDF	1.00	36.34
123789-HxCDF	1.00	37.48
1234678-HpCDF	1.00	39.54
1234678-HpCDD	1.00	41.36
1234789-HpCDF	1.00	42.24
OCDD	1.00	47.28
OCDF	1.01	47.55

Labeled Compounds	RRT [#]	RT
13C-2378-TCDD	1.03	26.71
13C-12378-PeCDD	1.23	31.81
13C-123478-HxCDD	0.98	36.46
13C-123678-HxCDD	0.99	36.59
13C-1234678-HpCDD	1.12	41.34
13C-OCDD	1.28	47.25
13C-2378-TCDF	1.01	26.08
13C-12378-PeCDF	1.17	30.21
13C-23478-PeCDF	1.22	31.56
13C-123478-HxCDF	0.95	35.23
13C-123678-HxCDF	0.96	35.38
13C-234678-HxCDF	0.98	36.32
13C-123789-HxCDF	1.01	37.46
13C-1234678-HpCDF	1.07	39.53
13C-1234789-HpCDF	1.14	42.23

Clean up Standard	RRT [#]	RT
37CL-2378-TCDD	1.03	26.74

Internal Standards	RRT [#]	RT
13C-1234-TCDD	0.00	25.90
13C-123789-HxCDD	0.00	37.02

(#) RRT = (RT of Analyte)/(RT of appropriate labeled compound).

7DFA - Form VII-HR CDD-1
CDD/CDF CONTINUING CALIBRATION SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112811
Date Analysed:	28-Nov-12	Time Analysed:	18:33:14
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
2378-TCDD	320/322	1.01	1.05	-4.1		0.77		0.65 - 0.89
2378-TCDF	304/306	0.86	0.88	-1.6		0.72		0.65 - 0.89
12378-PeCDF	340/342	0.90	0.90	0.2		1.49		1.32 - 1.78
12378-PeCDD	356/358	0.98	1.00	-2.0		1.57		1.32 - 1.78
23478-PeCDF	340/342	0.91	0.93	-1.6		1.47		1.32 - 1.78
123478-HxCDF	374/376	1.07	1.07	-0.1		1.18		1.05 - 1.43
123678-HxCDF	374/376	1.03	1.03	-0.2		1.17		1.05 - 1.43
123478-HxCDD	390/392	0.97	0.97	-0.3		1.25		1.05 - 1.43
123678-HxCDD	390/392	0.93	0.92	1.7		1.23		1.05 - 1.43
123789-HxCDD	390/392	0.98	0.93	5.6		1.23		1.05 - 1.43
234678-HxCDF	374/376	1.05	1.04	1.2		1.18		1.05 - 1.43
123789-HxCDF	374/376	0.99	0.99	0.2		1.18		1.05 - 1.43
1234678-HpCDF	408/410	1.21	1.23	-1.7		0.99		0.89 - 1.21
1234678-HpCDD	424/426	1.01	1.02	-1.1		1.05		0.89 - 1.21
1234789-HpCDF	408/410	1.22	1.22	0.2		0.97		0.89 - 1.21
OCDD	458/460	1.00	1.01	-1.1		0.90		0.76 - 1.02
OCDF	442/444	1.12	1.14	-1.2		0.86		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
13C-2378-TCDD	332/334	1.00	0.95	5.4		0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	0.81	0.72	12.9		1.57		1.32 - 1.78
13C-123478-HxCDD	402/404	0.95	0.99	-3.8		1.26		1.05 - 1.43
13C-123678-HxCDD	402/404	0.97	1.02	-5.2		1.24		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.86	0.87	-1.2		1.04		0.89 - 1.21
13C-OCDD	470/472	0.72	0.77	-6.9		0.90		0.76 - 1.02
13C-2378-TCDF	316/318	1.55	1.47	5.1		0.79		0.65 - 0.89
13C-12378-PeCDF	352/354	1.24	1.15	7.8		1.57		1.32 - 1.78
13C-23478-PeCDF	352/354	1.22	1.11	9.8		1.57		1.32 - 1.78
13C-123478-HxCDF	384/386	1.15	1.21	-4.8		0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	1.20	1.27	-5.5		0.52		0.43 - 0.59
13C-234678-HxCDF	384/386	1.18	1.24	-4.9		0.53		0.43 - 0.59
13C-123789-HxCDF	384/386	1.11	1.11	-0.1		0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.00	1.05	-4.5		0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.81	0.81	-0.5		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ratio Flag*	Ratio QC Limits
37CL-2378-TCDD	328	1.11	1.04	6.6		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag*	Ion Ratio	Ion Ratio Flag*	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.79		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.25		1.05 - 1.43

(#) The laboratory must flag any analyte which does not meet the criteria for Percentage Difference (%D) or ion abundance ratio by placing an asterisk in the appropriate flag column.

7DFB - Form VII-HR CDD-2
CDD/CDF CONTINUING CALIBRATION RETENTION TIME SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112811
Date Analysed:	28-Nov-12	Time Analysed:	18:33:14
Init.Calib.Date:	23-NOV-12	Init.Calib.Time:	

Target Analytes	RRT [#]	RT
2378-TCDD	1.00	26.71
2378-TCDF	1.00	26.06
12378-PeCDF	1.00	30.21
12378-PeCDD	1.00	31.81
23478-PeCDF	1.00	31.56
123478-HxCDF	1.00	35.23
123678-HxCDF	1.00	35.39
123478-HxCDD	1.00	36.46
123678-HxCDD	1.00	36.59
123789-HxCDD	1.01	37.02
234678-HxCDF	1.00	36.33
123789-HxCDF	1.00	37.47
1234678-HpCDF	1.00	39.53
1234678-HpCDD	1.00	41.35
1234789-HpCDF	1.00	42.23
OCDD	1.00	47.26
OCDF	1.01	47.53

Labeled Compounds	RRT [#]	RT
13C-2378-TCDD	1.03	26.69
13C-12378-PeCDD	1.23	31.79
13C-123478-HxCDD	0.99	36.45
13C-123678-HxCDD	0.99	36.58
13C-1234678-HpCDD	1.12	41.33
13C-OCDD	1.28	47.24
13C-2378-TCDF	1.01	26.05
13C-12378-PeCDF	1.17	30.19
13C-23478-PeCDF	1.22	31.54
13C-123478-HxCDF	0.95	35.21
13C-123678-HxCDF	0.96	35.36
13C-234678-HxCDF	0.98	36.31
13C-123789-HxCDF	1.01	37.45
13C-1234678-HpCDF	1.07	39.52
13C-1234789-HpCDF	1.14	42.21

Clean up Standard	RRT [#]	RT
37CL-2378-TCDD	1.03	26.71

Internal Standards	RRT [#]	RT
13C-1234-TCDD	0.00	25.88
13C-123789-HxCDD	0.00	37.00

(#) RRT = (RT of Analyte)/(RT of appropriate labeled compound).

7DFA - Form VII-HR CDD-1
CDD/CDF CONTINUING CALIBRATION SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112820
Date Analysed	29-Nov-12	Time Analysed	02:35:10
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
2378-TCDD	320/322	1.03	1.05	-1.5		0.78		0.65 - 0.89
2378-TCDF	304/306	0.86	0.88	-2.1		0.73		0.65 - 0.89
12378-PeCDF	340/342	0.89	0.90	-0.4		1.49		1.32 - 1.78
12378-PeCDD	356/358	0.99	1.00	-0.9		1.55		1.32 - 1.78
23478-PeCDF	340/342	0.91	0.93	-1.6		1.47		1.32 - 1.78
123478-HxCDF	374/376	1.07	1.07	-0.3		1.19		1.05 - 1.43
123678-HxCDF	374/376	1.04	1.03	0.1		1.17		1.05 - 1.43
123478-HxCDD	390/392	0.98	0.97	1.3		1.25		1.05 - 1.43
123678-HxCDD	390/392	0.91	0.92	-0.5		1.24		1.05 - 1.43
123789-HxCDD	390/392	0.94	0.93	1.1		1.24		1.05 - 1.43
234678-HxCDF	374/376	1.04	1.04	0.0		1.19		1.05 - 1.43
123789-HxCDF	374/376	1.00	0.99	1.2		1.20		1.05 - 1.43
1234678-HpCDF	408/410	1.20	1.23	-2.3		0.99		0.89 - 1.21
1234678-HpCDD	424/426	0.99	1.02	-2.3		1.04		0.89 - 1.21
1234789-HpCDF	408/410	1.21	1.22	-0.6		0.99		0.89 - 1.21
OCDD	458/460	1.00	1.01	-0.8		0.89		0.76 - 1.02
OCDF	442/444	1.12	1.14	-1.3		0.86		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
13C-2378-TCDD	332/334	0.97	0.95	2.6		0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	0.77	0.72	6.4		1.57		1.32 - 1.78
13C-123478-HxCDD	402/404	0.98	0.99	-1.2		1.25		1.05 - 1.43
13C-123678-HxCDD	402/404	1.02	1.02	-0.9		1.24		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.84	0.87	-3.1		1.03		0.89 - 1.21
13C-OCDD	470/472	0.71	0.77	-8.3		0.89		0.76 - 1.02
13C-2378-TCDF	316/318	1.55	1.47	5.6		0.78		0.65 - 0.89
13C-12378-PeCDF	352/354	1.17	1.15	2.3		1.57		1.32 - 1.78
13C-23478-PeCDF	352/354	1.17	1.11	5.3		1.56		1.32 - 1.78
13C-123478-HxCDF	384/386	1.20	1.21	-0.6		0.51		0.43 - 0.59
13C-123678-HxCDF	384/386	1.25	1.27	-1.4		0.52		0.43 - 0.59
13C-234678-HxCDF	384/386	1.23	1.24	-0.3		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.09	1.11	-1.1		0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.00	1.05	-5.2		0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.80	0.81	-2.3		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
37CL-2378-TCDD	328	1.07	1.04	3.0		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ion Ratio Flag [#]	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.78		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.24		1.05 - 1.43

(#) The laboratory must flag any analyte which does not meet the criteria for Percentage Difference (%D) or ion abundance ratio by placing an asterisk in the appropriate flag column.

7DFB - Form VII-HR CDD-2
CDD/CDF CONTINUING CALIBRATION RETENTION TIME SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112820
Date Analysed:	29-Nov-12	Time Analysed:	02:35:10
Init.Calib.Date:	23-NOV-12	Init.Calib.Time:	

Target Analytes	RRT [#]	RT
2378-TCDD	1.00	26.71
2378-TCDF	1.00	26.06
12378-PeCDF	1.00	30.21
12378-PeCDD	1.00	31.81
23478-PeCDF	1.00	31.55
123478-HxCDF	1.00	35.23
123678-HxCDF	1.00	35.38
123478-HxCDD	1.00	36.46
123678-HxCDD	1.00	36.59
123789-HxCDD	1.01	37.02
234678-HxCDF	1.00	36.32
123789-HxCDF	1.00	37.47
1234678-HpCDF	1.00	39.53
1234678-HpCDD	1.00	41.34
1234789-HpCDF	1.00	42.23
OCDD	1.00	47.25
OCDF	1.01	47.52

Labeled Compounds	RRT [#]	RT
13C-2378-TCDD	1.03	26.69
13C-12378-PeCDD	1.23	31.79
13C-123478-HxCDD	0.98	36.44
13C-123678-HxCDD	0.99	36.57
13C-1234678-HpCDD	1.12	41.33
13C-OCDD	1.28	47.23
13C-2378-TCDF	1.01	26.05
13C-12378-PeCDF	1.17	30.19
13C-23478-PeCDF	1.22	31.54
13C-123478-HxCDF	0.95	35.21
13C-123678-HxCDF	0.96	35.36
13C-234678-HxCDF	0.98	36.31
13C-123789-HxCDF	1.01	37.45
13C-1234678-HpCDF	1.07	39.51
13C-1234789-HpCDF	1.14	42.20

Clean up Standard	RRT [#]	RT
37CL-2378-TCDD	1.03	26.71

Internal Standards	RRT [#]	RT
13C-1234-TCDD	0.00	25.88
13C-123789-HxCDD	0.00	37.00

(#) RRT = (RT of Analyte)/(RT of appropriate labeled compound).

7DFA - Form VII-HR CDD-1
CDD/CDF CONTINUING CALIBRATION SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112829
Date Analysed:	29-Nov-12	Time Analysed:	10:37:05
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
2378-TCDD	320/322	1.03	1.05	-1.8		0.78		0.65 - 0.89
2378-TCDF	304/306	0.85	0.88	-2.7		0.71		0.65 - 0.89
12378-PeCDF	340/342	0.89	0.90	-1.0		1.47		1.32 - 1.78
12378-PeCDD	356/358	0.97	1.00	-2.5		1.55		1.32 - 1.78
23478-PeCDF	340/342	0.91	0.93	-1.6		1.47		1.32 - 1.78
123478-HxCDF	374/376	1.05	1.07	-1.4		1.17		1.05 - 1.43
123678-HxCDF	374/376	1.03	1.03	-0.1		1.20		1.05 - 1.43
123478-HxCDD	390/392	0.98	0.97	1.4		1.25		1.05 - 1.43
123678-HxCDD	390/392	0.92	0.92	0.3		1.24		1.05 - 1.43
123789-HxCDD	390/392	0.93	0.93	0.0		1.21		1.05 - 1.43
234678-HxCDF	374/376	1.03	1.04	-0.5		1.17		1.05 - 1.43
123789-HxCDF	374/376	0.98	0.99	-0.2		1.17		1.05 - 1.43
1234678-HpCDF	408/410	1.22	1.23	-0.8		0.99		0.89 - 1.21
1234678-HpCDD	424/426	1.00	1.02	-1.2		1.05		0.89 - 1.21
1234789-HpCDF	408/410	1.21	1.22	-0.2		0.95		0.89 - 1.21
OCDD	458/460	1.00	1.01	-1.3		0.90		0.76 - 1.02
OCDF	442/444	1.12	1.14	-1.2		0.87		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
13C-2378-TCDD	332/334	0.98	0.95	3.3		0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	0.74	0.72	2.4		1.57		1.32 - 1.78
13C-123478-HxCDD	402/404	0.99	0.99	-0.5		1.28		1.05 - 1.43
13C-123678-HxCDD	402/404	1.02	1.02	-0.1		1.23		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.84	0.87	-3.1		1.05		0.89 - 1.21
13C-OCDD	470/472	0.68	0.77	-11.3		0.89		0.76 - 1.02
13C-2378-TCDF	316/318	1.56	1.47	6.1		0.78		0.65 - 0.89
13C-12378-PeCDF	352/354	1.15	1.15	-0.2		1.56		1.32 - 1.78
13C-23478-PeCDF	352/354	1.13	1.11	1.6		1.59		1.32 - 1.78
13C-123478-HxCDF	384/386	1.23	1.21	1.8		0.51		0.43 - 0.59
13C-123678-HxCDF	384/386	1.29	1.27	1.7		0.53		0.43 - 0.59
13C-234678-HxCDF	384/386	1.24	1.24	0.7		0.51		0.43 - 0.59
13C-123789-HxCDF	384/386	1.10	1.11	-0.3		0.53		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.01	1.05	-4.1		0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.79	0.81	-3.2		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
37CL-2378-TCDD	328	1.09	1.04	4.6		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ion Ratio Flag [#]	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.79		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.25		1.05 - 1.43

(#) The laboratory must flag any analyte which does not meet the criteria for Percentage Difference (%D) or ion abundance ratio by placing an asterisk in the appropriate flag column.

7DFB - Form VII-HR CDD-2
CDD/CDF CONTINUING CALIBRATION RETENTION TIME SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112829
Date Analysed	29-Nov-12	Time Analysed	10:37:05
Init.Calib.Date:	23-NOV-12	Init.Calib.Time:	

Target Analytes	RRT [#]	RT
2378-TCDD	1.00	26.71
2378-TCDF	1.00	26.08
12378-PeCDF	1.00	30.21
12378-PeCDD	1.00	31.81
23478-PeCDF	1.00	31.56
123478-HxCDF	1.00	35.23
123678-HxCDF	1.00	35.37
123478-HxCDD	1.00	36.46
123678-HxCDD	1.00	36.59
123789-HxCDD	1.01	37.02
234678-HxCDF	1.00	36.32
123789-HxCDF	1.00	37.47
1234678-HpCDF	1.00	39.53
1234678-HpCDD	1.00	41.34
1234789-HpCDF	1.00	42.23
OCDD	1.00	47.25
OCDF	1.01	47.53

Labeled Compounds	RRT [#]	RT
13C-2378-TCDD	1.03	26.69
13C-12378-PeCDD	1.23	31.79
13C-123478-HxCDD	0.99	36.45
13C-123678-HxCDD	0.99	36.57
13C-1234678-HpCDD	1.12	41.33
13C-OCDD	1.28	47.23
13C-2378-TCDF	1.01	26.05
13C-12378-PeCDF	1.17	30.20
13C-23478-PeCDF	1.22	31.54
13C-123478-HxCDF	0.95	35.21
13C-123678-HxCDF	0.96	35.36
13C-234678-HxCDF	0.98	36.31
13C-123789-HxCDF	1.01	37.45
13C-1234678-HpCDF	1.07	39.52
13C-1234789-HpCDF	1.14	42.21

Clean up Standard	RRT [#]	RT
37CL-2378-TCDD	1.03	26.71

Internal Standards	RRT [#]	RT
13C-1234-TCDD	0.00	25.88
13C-123789-HxCDD	0.00	37.00

(#) RRT = (RT of Analyte)/(RT of appropriate labeled compound).

7DFA - Form VII-HR CDD-1
CDD/CDF CONTINUING CALIBRATION SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112835
Date Analysed:	29-Nov-12	Time Analysed:	16:20:15
Init. Calib. Date:	23-NOV-12	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
2378-TCDD	320/322	1.02	1.05	-3.2		0.79		0.65 - 0.89
2378-TCDF	304/306	0.86	0.88	-2.1		0.76		0.65 - 0.89
12378-PeCDF	340/342	0.89	0.90	-0.2		1.48		1.32 - 1.78
12378-PeCDD	356/358	0.99	1.00	-1.0		1.56		1.32 - 1.78
23478-PeCDF	340/342	0.92	0.93	-0.9		1.45		1.32 - 1.78
123478-HxCDF	374/376	1.07	1.07	0.3		1.18		1.05 - 1.43
123678-HxCDF	374/376	1.05	1.03	1.8		1.20		1.05 - 1.43
123478-HxCDD	390/392	0.96	0.97	-0.9		1.22		1.05 - 1.43
123678-HxCDD	390/392	0.92	0.92	0.4		1.23		1.05 - 1.43
123789-HxCDD	390/392	0.93	0.93	-0.6		1.22		1.05 - 1.43
234678-HxCDF	374/376	1.05	1.04	1.2		1.17		1.05 - 1.43
123789-HxCDF	374/376	0.99	0.99	0.5		1.19		1.05 - 1.43
1234678-HpCDF	408/410	1.22	1.23	-1.2		0.99		0.89 - 1.21
1234678-HpCDD	424/426	1.00	1.02	-1.3		1.04		0.89 - 1.21
1234789-HpCDF	408/410	1.21	1.22	-0.3		0.97		0.89 - 1.21
OCDD	458/460	1.00	1.01	-1.1		0.90		0.76 - 1.02
OCDF	442/444	1.12	1.14	-1.2		0.85		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
13C-2378-TCDD	332/334	0.98	0.95	3.2		0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	0.72	0.72	-0.4		1.58		1.32 - 1.78
13C-123478-HxCDD	402/404	0.98	0.99	-0.7		1.26		1.05 - 1.43
13C-123678-HxCDD	402/404	1.02	1.02	-0.4		1.26		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.83	0.87	-4.3		1.06		0.89 - 1.21
13C-OCDD	470/472	0.69	0.77	-10.3		0.89		0.76 - 1.02
13C-2378-TCDF	316/318	1.55	1.47	5.0		0.77		0.65 - 0.89
13C-12378-PeCDF	352/354	1.14	1.15	-0.8		1.57		1.32 - 1.78
13C-23478-PeCDF	352/354	1.11	1.11	-0.3		1.56		1.32 - 1.78
13C-123478-HxCDF	384/386	1.19	1.21	-1.5		0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	1.27	1.27	0.0		0.52		0.43 - 0.59
13C-234678-HxCDF	384/386	1.22	1.24	-1.2		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.10	1.11	-0.4		0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.01	1.05	-4.2		0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.79	0.81	-3.5		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ratio Flag [#]	Ratio QC Limits
37CL-2378-TCDD	328	1.08	1.04	3.9		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag [#]	Ion Ratio	Ion Ratio Flag [#]	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.79		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.24		1.05 - 1.43

(#) The laboratory must flag any analyte which does not meet the criteria for Percentage Difference (%D) or ion abundance ratio by placing an asterisk in the appropriate flag column.

7DFB - Form VII-HR CDD-2

CDD/CDF CONTINUING CALIBRATION RETENTION TIME SUMMARY
HIGH RESOLUTION

Lab Name:	ARI	Contract:	ANCHOR
Lab Code:	VR58	Case No.:	CITY OF KENMORE
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	12112835
Date Analysed:	29-Nov-12	Time Analysed:	16:20:15
Init.Calib.Date:	23-NOV-12	Init.Calib.Time:	

Target Analytes	RRT [#]	RT
2378-TCDD	1.00	26.72
2378-TCDF	1.00	26.08
12378-PeCDF	1.00	30.21
12378-PeCDD	1.00	31.81
23478-PeCDF	1.00	31.56
123478-HxCDF	1.00	35.23
123678-HxCDF	1.00	35.38
123478-HxCDD	1.00	36.46
123678-HxCDD	1.00	36.59
123789-HxCDD	1.01	37.02
234678-HxCDF	1.00	36.33
123789-HxCDF	1.00	37.47
1234678-HpCDF	1.00	39.53
1234678-HpCDD	1.00	41.35
1234789-HpCDF	1.00	42.22
OCDD	1.00	47.26
OCDF	1.01	47.53

Labeled Compounds	RRT [#]	RT
13C-2378-TCDD	1.03	26.69
13C-12378-PeCDD	1.23	31.79
13C-123478-HxCDD	0.99	36.45
13C-123678-HxCDD	0.99	36.58
13C-1234678-HpCDD	1.12	41.33
13C-OCDD	1.28	47.23
13C-2378-TCDF	1.01	26.05
13C-12378-PeCDF	1.17	30.20
13C-23478-PeCDF	1.22	31.54
13C-123478-HxCDF	0.95	35.21
13C-123678-HxCDF	0.96	35.36
13C-234678-HxCDF	0.98	36.31
13C-123789-HxCDF	1.01	37.46
13C-1234678-HpCDF	1.07	39.52
13C-1234789-HpCDF	1.14	42.21

Clean up Standard	RRT [#]	RT
37CL-2378-TCDD	1.03	26.71

Internal Standards	RRT [#]	RT
13C-1234-TCDD	0.00	25.88
13C-123789-HxCDD	0.00	37.00

(#) RRT = (RT of Analyte)/(RT of appropriate labeled compound).

**Pesticide Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-02-S-C-121108
SAMPLE

Lab Sample ID: VR82A
 LIMS ID: 12-22479
 Matrix: Sediment
 Data Release Authorized: *MW*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 17:28
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.7 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 73.0%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.64	4.9	< 4.9 U
309-00-2	Aldrin	0.64	4.9	< 4.9 U
60-57-1	Dieldrin	1.7	9.8	< 9.8 U
72-55-9	4,4'-DDE	1.7	9.8	< 9.8 U
72-54-8	4,4'-DDD	1.7	9.8	< 9.8 U
50-29-3	4,4'-DDT	1.7	9.8	< 9.8 U
5103-74-2	trans-Chlordane	0.78	4.9	< 4.9 U
5103-71-9	cis-Chlordane	0.83	4.9	< 4.9 U
118-74-1	Hexachlorobenzene	1.8	4.9	< 4.9 U
87-68-3	Hexachlorobutadiene	2.4	4.9	< 4.9 U
27304-13-8	oxy Chlordane	2.3	9.8	< 9.8 U
5103-73-1	cis-Nonachlor	1.6	9.8	< 9.8 U
39765-80-5	trans-Nonachlor	4.7	9.8	< 9.8 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	75.6%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

§ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-03-S-C-121108
SAMPLE

Lab Sample ID: VR82B
 LIMS ID: 12-22480
 Matrix: Sediment
 Data Release Authorized: *hwr*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 17:46
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.7 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 75.2%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.64	4.9	< 4.9 U
309-00-2	Aldrin	0.64	4.9	< 4.9 U
60-57-1	Dieldrin	1.7	9.8	< 9.8 U
72-55-9	4,4'-DDE	1.7	9.8	< 9.8 U
72-54-8	4,4'-DDD	1.7	9.8	< 9.8 U
50-29-3	4,4'-DDT	1.7	9.8	< 9.8 U
5103-74-2	trans-Chlordane	0.78	4.9	< 4.9 U
5103-71-9	cis-Chlordane	0.83	4.9	< 4.9 U
118-74-1	Hexachlorobenzene	1.8	4.9	< 4.9 U
87-68-3	Hexachlorobutadiene	2.4	4.9	< 4.9 U
27304-13-8	oxy Chlordane	2.3	9.8	< 9.8 U
5103-73-1	cis-Nonachlor	1.6	9.8	< 9.8 U
39765-80-5	trans-Nonachlor	4.7	9.8	< 9.8 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	87.2%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

\$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-04-S-C-121108
SAMPLE

Lab Sample ID: VR82C
 LIMS ID: 12-22481
 Matrix: Sediment
 Data Release Authorized: *WVW*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 18:03
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 15.8%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.64	4.9	< 4.9 U
309-00-2	Aldrin	0.64	4.9	< 4.9 U
60-57-1	Dieldrin	1.7	9.8	< 9.8 U
72-55-9	4,4'-DDE	1.7	9.8	< 9.8 U
72-54-8	4,4'-DDD	1.7	9.8	< 9.8 U
50-29-3	4,4'-DDT	1.7	9.8	< 9.8 U
5103-74-2	trans-Chlordane	0.77	4.9	< 4.9 U
5103-71-9	cis-Chlordane	0.83	4.9	< 4.9 U
118-74-1	Hexachlorobenzene	1.8	4.9	< 4.9 U
87-68-3	Hexachlorobutadiene	2.4	4.9	< 4.9 U
27304-13-8	oxy Chlordane	2.3	9.8	< 9.8 U
5103-73-1	cis-Nonachlor	1.6	9.8	< 9.8 U
39765-80-5	trans-Nonachlor	4.7	9.8	< 9.8 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	74.4%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

§ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-05-S-C-121108

SAMPLE

Lab Sample ID: VR82D

LIMS ID: 12-22482

Matrix: Sediment

Data Release Authorized: *WNN*

Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/15/12

Date Analyzed: 11/30/12 18:21

Instrument/Analyst: ECD6/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt

Final Extract Volume: 2.5 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 66.1%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.65	5.0	< 5.0 U
309-00-2	Aldrin	0.65	5.0	< 5.0 U
60-57-1	Dieldrin	1.7	10	< 10 U
72-55-9	4,4'-DDE	1.7	10	< 10 U
72-54-8	4,4'-DDD	1.7	10	< 10 U
50-29-3	4,4'-DDT	1.7	10	< 10 U
5103-74-2	trans-Chlordane	0.79	5.0	< 5.0 U
5103-71-9	cis-Chlordane	0.84	5.0	< 5.0 U
118-74-1	Hexachlorobenzene	1.8	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	2.4	5.0	< 5.0 U
27304-13-8	oxy Chlordane	2.3	10	< 10 U
5103-73-1	cis-Nonachlor	1.7	10	< 10 U
39765-80-5	trans-Nonachlor	4.8	10	< 10 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	95.6%
Tetrachlorometaxylene	87.1%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

\$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-06-S-C-121108

SAMPLE

Lab Sample ID: VR82E

LIMS ID: 12-22483

Matrix: Sediment

Data Release Authorized: *WJW*

Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/15/12

Date Analyzed: 11/30/12 18:39

Instrument/Analyst: ECD6/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt

Final Extract Volume: 2.5 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 71.0%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	< 4.8 U
309-00-2	Aldrin	0.63	4.8	< 4.8 U
60-57-1	Dieldrin	1.6	9.7	< 9.7 U
72-55-9	4,4'-DDE	1.6	9.7	< 9.7 U
72-54-8	4,4'-DDD	1.7	9.7	< 9.7 U
50-29-3	4,4'-DDT	1.7	9.7	< 9.7 U
5103-74-2	trans-Chlordane	0.77	4.8	< 4.8 U
5103-71-9	cis-Chlordane	0.82	4.8	< 4.8 U
118-74-1	Hexachlorobenzene	1.8	4.8	< 4.8 U
87-68-3	Hexachlorobutadiene	2.4	4.8	< 4.8 U
27304-13-8	oxy Chlordane	2.3	9.7	< 9.7 U
5103-73-1	cis-Nonachlor	1.6	9.7	< 9.7 U
39765-80-5	trans-Nonachlor	4.7	9.7	< 9.7 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	66.4%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

§ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-07-S-C-121108
SAMPLE

Lab Sample ID: VR82F
 LIMS ID: 12-22484
 Matrix: Sediment
 Data Release Authorized: *WVW*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 18:57
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.7 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 64.9%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.64	4.9	< 4.9 U
309-00-2	Aldrin	0.64	4.9	< 4.9 U
60-57-1	Dieldrin	1.7	9.8	< 9.8 U
72-55-9	4,4'-DDE	1.7	9.8	< 9.8 U
72-54-8	4,4'-DDD	1.7	9.8	< 9.8 U
50-29-3	4,4'-DDT	1.7	9.8	< 9.8 U
5103-74-2	trans-Chlordane	0.78	4.9	< 4.9 U
5103-71-9	cis-Chlordane	0.83	4.9	< 4.9 U
118-74-1	Hexachlorobenzene	1.8	4.9	< 4.9 U
87-68-3	Hexachlorobutadiene	2.4	4.9	< 4.9 U
27304-13-8	oxy Chlordane	2.3	9.8	< 9.8 U
5103-73-1	cis-Nonachlor	1.6	9.8	< 9.8 U
39765-80-5	trans-Nonachlor	4.7	9.8	< 9.8 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	74.2%
Tetrachlorometaxylene	74.5%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

§ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-07-S-C-dup-121108
SAMPLE

Lab Sample ID: VR82G
 LIMS ID: 12-22485
 Matrix: Sediment
 Data Release Authorized: *MM*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 20:08
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 63.4%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	< 4.8 U
309-00-2	Aldrin	0.63	4.8	< 4.8 U
60-57-1	Dieldrin	1.6	9.6	< 9.6 U
72-55-9	4,4'-DDE	1.6	9.6	< 9.6 U
72-54-8	4,4'-DDD	1.7	9.6	< 9.6 U
50-29-3	4,4'-DDT	1.7	9.6	< 9.6 U
5103-74-2	trans-Chlordane	0.76	4.8	< 4.8 U
5103-71-9	cis-Chlordane	0.81	4.8	< 4.8 U
118-74-1	Hexachlorobenzene	1.8	4.8	< 4.8 U
87-68-3	Hexachlorobutadiene	2.3	4.8	< 4.8 U
27304-13-8	oxy Chlordane	2.2	9.6	< 9.6 U
5103-73-1	cis-Nonachlor	1.6	9.6	< 9.6 U
39765-80-5	trans-Nonachlor	4.6	9.6	< 9.6 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	92.9%
Tetrachlorometaxylene	85.5%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

\$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-08-S-C-121108
SAMPLE

Lab Sample ID: VR82H
 LIMS ID: 12-22486
 Matrix: Sediment
 Data Release Authorized: *YHW*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 20:26
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 58.5%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	< 4.8 U
309-00-2	Aldrin	0.63	4.8	< 4.8 U
60-57-1	Dieldrin	1.6	9.6	< 9.6 U
72-55-9	4,4'-DDE	1.6	9.6	< 9.6 U
72-54-8	4,4'-DDD	1.7	9.6	< 9.6 U
50-29-3	4,4'-DDT	1.7	9.6	< 9.6 U
5103-74-2	trans-Chlordane	0.76	4.8	< 4.8 U
5103-71-9	cis-Chlordane	0.81	4.8	< 4.8 U
118-74-1	Hexachlorobenzene	1.8	4.8	< 4.8 U
87-68-3	Hexachlorobutadiene	2.3	4.8	< 4.8 U
27304-13-8	oxy Chlordane	2.2	9.6	< 9.6 U
5103-73-1	cis-Nonachlor	1.6	9.6	< 9.6 U
39765-80-5	trans-Nonachlor	4.6	9.6	< 9.6 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	89.8%
Tetrachlorometaxylene	72.6%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

\$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-09-S-C-121108
SAMPLE

Lab Sample ID: VR82I
 LIMS ID: 12-22487
 Matrix: Sediment
 Data Release Authorized: *mmw*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 21:19
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 63.7%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	< 4.8 U
309-00-2	Aldrin	0.63	4.8	< 4.8 U
60-57-1	Dieldrin	1.6	9.6	< 9.6 U
72-55-9	4,4'-DDE	1.6	9.6	< 9.6 U
72-54-8	4,4'-DDD	1.6	9.6	< 9.6 U
50-29-3	4,4'-DDT	1.6	9.6	< 9.6 U
5103-74-2	trans-Chlordane	0.76	4.8	< 4.8 U
5103-71-9	cis-Chlordane	0.81	4.8	< 4.8 U
118-74-1	Hexachlorobenzene	1.8	4.8	< 4.8 U
87-68-3	Hexachlorobutadiene	2.3	4.8	< 4.8 U
27304-13-8	oxy Chlordane	2.2	9.6	< 9.6 U
5103-73-1	cis-Nonachlor	1.6	9.6	< 9.6 U
39765-80-5	trans-Nonachlor	4.6	9.6	< 9.6 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	83.9%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named gamma-Chlordane and beta-Chlordane.

\$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

SW8081 PESTICIDE SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
SG-02-S-C-121108	106%	75.6%	0
SG-03-S-C-121108	105%	87.2%	0
SG-04-S-C-121108	100%	74.4%	0
SG-05-S-C-121108	95.6%	87.1%	0
SG-06-S-C-121108	110%	66.4%	0
SG-07-S-C-121108	74.2%	74.5%	0
SG-07-S-C-dup-121108	92.9%	85.5%	0
MB-111512	85.5%	69.5%	0
LCS-111512	86.2%	68.5%	0
SG-08-S-C-121108	89.8%	72.6%	0
SG-08-S-C-121108 MS	122%	79.2%	0
SG-08-S-C-121108 MSD	80.9%	67.4%	0
SG-09-S-C-121108	106%	83.9%	0

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (60-149) (36-182)
(TCMX) = Tetrachlorometaxylene (47-124) (34-169)

Prep Method: SW3546
Log Number Range: 12-22479 to 12-22487

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: SG-08-S-C-121108

MS/MSD

Lab Sample ID: VR82H
LIMS ID: 12-22486
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Date Extracted MS/MSD: 11/15/12

Sample Amount MS: 13.0 g-dry-wt

MSD: 12.9 g-dry-wt

Date Analyzed MS: 11/30/12 20:44

Final Extract Volume MS: 2.5 mL

MSD: 11/30/12 21:01

MSD: 2.5 mL

Instrument/Analyst MS: ECD6/YZ

Dilution Factor MS: 5.00

MSD: ECD6/YZ

MSD: 5.00

GPC Cleanup: No

Silica Gel: Yes

Sulfur Cleanup: Yes

Percent Moisture: 58.5%

Florisil Cleanup: No

Acid Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Heptachlor	< 4.81	2.22 J	3.84	57.8%	1.64 J	3.87	42.4%	30.1%
Aldrin	< 4.81	3.70 J	3.84	96.4%	3.12 J	3.87	80.6%	17.0%
Dieldrin	< 9.62	6.01 J	7.67	78.4%	6.67 J	7.74	86.2%	10.4%
4,4'-DDE	< 9.62	8.17 J	7.67	107%	7.44 J	7.74	96.1%	9.4%
4,4'-DDD	< 9.62	9.69	7.67	126%	10.7 J	7.74	138%	9.9%
4,4'-DDT	< 9.62	5.76 JP	7.67	75.1%	< 9.67 U	7.74	NA	NA
trans-Chlordane	< 4.81	4.15 J	3.84	108%	3.03 J	3.87	78.3%	31.2%
cis-Chlordane	< 4.81	4.73 J	3.84	123%	4.50 J	3.87	116%	5.0%
Hexachlorobenzene	< 4.81	3.75 J	3.84	97.7%	3.41 J	3.87	88.1%	9.5%
Hexachlorobutadiene	< 4.81	2.84 J	3.84	74.0%	2.54 J	3.87	65.6%	11.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-08-S-C-121108

MATRIX SPIKE

Lab Sample ID: VR82H

LIMS ID: 12-22486

Matrix: Sediment

Data Release Authorized: *MW*

Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/15/12

Date Analyzed: 11/30/12 20:44

Instrument/Analyst: ECD6/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt

Final Extract Volume: 2.5 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 58.5%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	---
309-00-2	Aldrin	0.63	4.8	---
60-57-1	Dieldrin	1.6	9.6	---
72-55-9	4,4'-DDE	1.6	9.6	---
72-54-8	4,4'-DDD	1.7	9.6	---
50-29-3	4,4'-DDT	1.7	9.6	---
5103-74-2	trans-Chlordane	0.76	4.8	---
5103-71-9	cis-Chlordane	0.81	4.8	---
118-74-1	Hexachlorobenzene	1.8	4.8	---
87-68-3	Hexachlorobutadiene	2.3	4.8	---
27304-13-8	oxy Chlordane	2.2	9.6	< 9.6 U
5103-73-1	cis-Nonachlor	1.6	9.6	< 9.6 U
39765-80-5	trans-Nonachlor	4.6	9.6	< 9.6 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	122%
Tetrachlorometaxylene	79.2%

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-08-S-C-121108
MATRIX SPIKE DUP

Lab Sample ID: VR82H
 LIMS ID: 12-22486
 Matrix: Sediment
 Data Release Authorized: *MM*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 21:01
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5.00
 Silica Gel: Yes
 Percent Moisture: 58.5%

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.63	4.8	---
309-00-2	Aldrin	0.63	4.8	---
60-57-1	Dieldrin	1.6	9.7	---
72-55-9	4,4'-DDE	1.6	9.7	---
72-54-8	4,4'-DDD	1.7	9.7	---
50-29-3	4,4'-DDT	1.7	9.7	---
5103-74-2	trans-Chlordane	0.77	4.8	---
5103-71-9	cis-Chlordane	0.82	4.8	---
118-74-1	Hexachlorobenzene	1.8	4.8	---
87-68-3	Hexachlorobutadiene	2.4	4.8	---
27304-13-8	oxy Chlordane	2.2	9.7	< 9.7 U
5103-73-1	cis-Nonachlor	1.6	9.7	< 9.7 U
39765-80-5	trans-Nonachlor	4.7	9.7	< 9.7 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	80.9%
Tetrachlorometaxylene	67.4%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: LCS-111512

LAB CONTROL

Lab Sample ID: LCS-111512

LIMS ID: 12-22486

Matrix: Sediment

Data Release Authorized: *mm*

Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/15/12

Date Analyzed: 11/30/12 17:10

Instrument/Analyst: ECD6/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt

Final Extract Volume: 2.5 mL

Dilution Factor: 1.00

Silica Gel: Yes

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Heptachlor	3.78	4.00	94.5%
Aldrin	3.68	4.00	92.0%
Dieldrin	8.44	8.00	106%
4,4'-DDE	8.58	8.00	107%
4,4'-DDD	8.58	8.00	107%
4,4'-DDT	8.14	8.00	102%
trans-Chlordane	4.04	4.00	101%
cis-Chlordane	4.00	4.00	100%
Hexachlorobenzene	3.34	4.00	83.5%
Hexachlorobutadiene	2.74	4.00	68.5%

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	68.5%

Reported in µg/kg (ppb)

FORM 4
 PESTICIDE METHOD BLANK SUMMARY

BLANK NO.

VR82MBS1

Lab Name: ANALYTICAL RESOURCES INC Client: ANCHOR QEA, LLC.
 ARI Job No.: VR82 Project: CITY OF KENMORE SEDI
 Lab Sample ID: VR82MBS1 Lab File ID: 1130A010
 Date Extracted: 11/15/12 Matrix: SOLID
 Date Analyzed: 11/30/12 Instrument ID: ECD6
 Time Analyzed: 1652 GC Columns: STX-CLP1/STX-CLP2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	VR82LCSS1	VR82LCSS1	11/30/12
02	SG-02-S-C-121108	VR82A	11/30/12
03	SG-03-S-C-121108	VR82B	11/30/12
04	SG-04-S-C-121108	VR82C	11/30/12
05	SG-05-S-C-121108	VR82D	11/30/12
06	SG-06-S-C-121108	VR82E	11/30/12
07	SG-07-S-C-121108	VR82F	11/30/12
08	SG-07-S-C-DUP-12110	VR82G	11/30/12
09	SG-08-S-C-121108	VR82H	11/30/12
10	SG-08-S-C-12110 MS	VR82HMS	11/30/12
11	SG-08-S-C-12110 MSD	VR82HMSD	11/30/12
12	SG-09-S-C-121108	VR82I	11/30/12

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method SW8081B
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MB-111512
METHOD BLANK

Lab Sample ID: MB-111512
 LIMS ID: 12-22486
 Matrix: Sediment
 Data Release Authorized: *MW*
 Reported: 12/03/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 11/15/12
 Date Analyzed: 11/30/12 16:52
 Instrument/Analyst: ECD6/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.5 g
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: NA

CAS Number	Analyte	MDL	RL	Result
76-44-8	Heptachlor	0.13	1.0	< 1.0 U
309-00-2	Aldrin	0.13	1.0	< 1.0 U
60-57-1	Dieldrin	0.34	2.0	< 2.0 U
72-55-9	4,4'-DDE	0.34	2.0	< 2.0 U
72-54-8	4,4'-DDD	0.34	2.0	< 2.0 U
50-29-3	4,4'-DDT	0.34	2.0	< 2.0 U
5103-74-2	trans-Chlordane	0.16	1.0	< 1.0 U
5103-71-9	cis-Chlordane	0.17	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	0.37	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	0.49	1.0	< 1.0 U
27304-13-8	oxy Chlordane	0.46	2.0	< 2.0 U
5103-73-1	cis-Nonachlor	0.33	2.0	< 2.0 U
39765-80-5	trans-Nonachlor	0.96	2.0	< 2.0 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	69.5%

8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	RT OF STANDARDS							MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		FROM	TO
alpha-BHC	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.10	4.20
beta-BHC	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.45	4.55
delta-BHC	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.61	4.71
gamma-BHC (Lindane)	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.37	4.47
Heptachlor	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.81	4.91
Aldrin	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.10	5.20
Heptachlor epoxide b	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.67	5.77
Endosulfan I	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.05	6.15
Dieldrin	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.27	6.37
4,4'-DDE	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	5.98	6.08
Endrin	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.49	6.59
Endosulfan II	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.70	6.80
4,4'-DDD	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.53	6.63
Endosulfan sulfate	7.51	7.51	7.51	7.51	7.51	7.51	7.51	7.51	7.46	7.56
4,4'-DDT	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.79	6.89
Methoxychlor	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.22	7.32
Endrin ketone	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.72	7.82
Endrin aldehyde	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.07	7.17
gamma-Chlordane	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.79	5.89
alpha-Chlordane	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.92	6.02
Hexachlorobutadiene	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.16	2.26
Hexachlorobenzene	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.95	4.05
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.62	3.72
Decachlorobiphenyl	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.56	8.66

8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	RT OF STANDARDS							MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		FROM	TO
alpha-BHC	4.58	4.58	4.58	4.58	4.58	4.58	4.59	4.58	4.54	4.64
beta-BHC	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	4.96	5.06
delta-BHC	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.26	5.36
gamma-BHC (Lindane)	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.89	4.99
Heptachlor	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.35	5.45
Aldrin	5.73	5.73	5.73	5.73	5.74	5.74	5.74	5.73	5.69	5.79
Heptachlor epoxide b	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.24	6.34
Endosulfan I	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.63	6.73
Dieldrin	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.89	6.99
4,4'-DDE	6.74	6.74	6.74	6.74	6.74	6.74	6.75	6.74	6.70	6.80
Endrin	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.18	7.28
Endosulfan II	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.37	7.47
4,4'-DDD	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.23	7.33
Endosulfan sulfate	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.91	8.01
4,4'-DDT	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.52	7.62
Methoxychlor	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.11	8.21
Endrin ketone	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.40	8.50
Endrin aldehyde	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.66	7.76
gamma-Chlordane	6.47	6.47	6.47	6.47	6.47	6.47	6.48	6.47	6.43	6.53
alpha-Chlordane	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.56	6.66
Hexachlorobutadiene	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.33	2.43
Hexachlorobenzene	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.41	4.51
Tetrachloro-m-xylene	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	3.96	4.06
Decachlorobiphenyl	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.52	9.62

8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	CALIBRATION FACTORS							MEAN	R ²
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		
alpha-BHC	1.4836	1.4616	1.4938	1.4882	1.4985	1.4906	1.5199	1.4909	1.2
beta-BHC	0.7515	0.6928	0.6569	0.6074	0.5837	0.5625	0.5568	0.6302	11.6
delta-BHC	1.2027	1.1705	1.1786	1.1878	1.2088	1.2162	1.2478	1.2018	2.2
gamma-BHC (Lindane)	1.4203	1.3736	1.3766	1.3565	1.3552	1.3431	1.3628	1.3697	1.8
Heptachlor	1.3710	1.2938	1.2653	1.2234	1.2040	1.1717	1.1640	1.2419	5.9
Aldrin	1.3883	1.3094	1.2895	1.2509	1.2369	1.2047	1.1979	1.2682	5.3
Heptachlor epoxide b	1.4111	1.3113	1.2616	1.1995	1.1708	1.1149	1.0884	1.2225	9.3
Endosulfan I	1.3006	1.2127	1.1670	1.1114	1.0773	1.0349	1.0155	1.1313	9.0
Dieldrin	1.2696	1.2204	1.2149	1.1719	1.1402	1.0940	1.0752	1.1694	6.1
4,4'-DDE	1.1509	1.1089	1.1091	1.0833	1.0630	1.0274	1.0156	1.0797	4.5
Endrin	1.1855	1.1373	1.1231	1.0879	1.0757	1.0200	1.0221	1.0931	5.6
Endosulfan II	1.1881	1.1269	1.0957	1.0423	1.0170	0.9634	0.9552	1.0555	8.2
4,4'-DDD	1.0319	0.9916	0.9750	0.9474	0.9355	0.8986	0.9012	0.9544	5.1
Endosulfan sulfate	0.9858	0.9374	0.9084	0.8788	0.8558	0.8264	0.8267	0.8885	6.7
4,4'-DDT	1.0119	0.9801	0.9720	0.9504	0.9467	0.9240	0.9327	0.9597	3.2
Methoxychlor	0.5578	0.5238	0.4924	0.4554	0.4308	0.4096	0.4145	0.4692	12.2
Endrin ketone	1.2244	1.1156	1.0606	1.0086	0.9677	0.9416	0.9544	1.0390	9.9
Endrin aldehyde	0.9849	0.9225	0.8807	0.8346	0.8072	0.7659	0.7630	0.8512	9.7
gamma-Chlordane	1.3792	1.2811	1.2367	1.1861	1.1606	1.1322	1.1335	1.2156	7.4
alpha-Chlordane	1.3429	1.2457	1.2000	1.1461	1.1150	1.0849	1.0777	1.1732	8.2
Hexachlorobutadiene	2.0812	1.9402	1.8804	1.7634	1.7036	1.6425	1.6366	1.8068	9.2
Hexachlorobenzene	1.5903	1.4533	1.3696	1.2635	1.1969	1.1324	1.1201	1.3037	13.5
Tetrachloro-m-xylene	1.3460	1.2798	1.2458	1.1734	1.1286	1.0704	1.0536	1.1854	9.3
Decachlorobiphenyl	1.3890	1.2243	1.1239	1.0205	0.9531	0.8948	0.8784	1.0691	17.6

8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	CALIBRATION FACTORS							MEAN	R ² %RSD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		
alpha-BHC	1.7068	1.7328	1.8043	1.7772	1.7612	1.7241	1.7099	1.7452	2.1
beta-BHC	0.7886	0.7507	0.7499	0.7007	0.6746	0.6525	0.6274	0.7063	8.3
delta-BHC	1.3355	1.3664	1.4106	1.3838	1.4129	1.3944	1.3874	1.3844	1.9
gamma-BHC (Lindane)	1.6094	1.6044	1.6375	1.5988	1.5712	1.5315	1.4910	1.5777	3.2
Heptachlor	1.5856	1.5485	1.5510	1.4820	1.4155	1.3165	1.2123	1.4445	9.6
Aldrin	1.5160	1.4979	1.5123	1.4628	1.4083	1.3241	1.2212	1.4204	7.8
Heptachlor epoxide b	1.4476	1.4003	1.3792	1.3046	1.2384	1.1438	1.0491	1.2804	11.3
Endosulfan I	1.2698	1.2439	1.2336	1.1730	1.1176	1.0464	0.9643	1.1498	9.9
Dieldrin	1.3591	1.3384	1.3315	1.2542	1.1663	1.0710	0.9940	1.2164	11.8
4,4'-DDE	1.2998	1.2792	1.2771	1.2008	1.1147	1.0160	0.9308	1.1598	12.4
Endrin	1.5909	1.5373	1.4937	1.4092	1.3284	1.1857	1.1161	1.3802	13.0
Endosulfan II	1.5871	1.5228	1.4855	1.3975	1.3177	1.2030	1.1435	1.3796	12.1
4,4'-DDD	1.4343	1.4084	1.3921	1.3338	1.2712	1.1686	1.1160	1.3035	9.5
Endosulfan sulfate	1.2785	1.2434	1.2172	1.1779	1.1320	1.0535	1.0179	1.1600	8.4
4,4'-DDT	1.3464	1.3100	1.3003	1.2588	1.2128	1.1433	1.1114	1.2404	7.1
Methoxychlor	0.6592	0.6042	0.5527	0.4972	0.4495	0.4126	0.3783	0.5077	17.7
Endrin ketone	1.3456	1.2690	1.2127	1.1525	1.0924	1.0274	1.0120	1.1588	10.8
Endrin aldehyde	1.2587	1.1952	1.1528	1.0937	1.0369	0.9549	0.9102	1.0860	11.7
gamma-Chlordane	1.4955	1.4315	1.4100	1.3398	1.2967	1.2245	1.1522	1.3357	9.1
alpha-Chlordane	1.3740	1.3339	1.3210	1.2563	1.2048	1.1471	1.0808	1.2454	8.6
Hexachlorobutadiene	1.9645	1.8894	1.8576	1.7256	1.6592	1.5549	1.5070	1.7369	10.0
Hexachlorobenzene	1.7774	1.6637	1.6110	1.4932	1.4081	1.3179	1.2412	1.5018	12.9
Tetrachloro-m-xylene	1.6512	1.5834	1.5355	1.4058	1.2945	1.1692	1.0938	1.3905	15.3
Decachlorobiphenyl	1.5427	1.4016	1.2929	1.1902	1.1187	1.0455	1.0196	1.2302	15.7

8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	RT OF STANDARDS							MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		FROM	TO
Oxychlorane	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.58	5.68
2,4-DDE	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.65	5.75
trans-Nonachlor	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.90	6.00
2,4-DDD	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.14	6.24
2,4-DDT	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.38	6.48
cis-Nonachlor	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.52	6.62
Mirex	7.44	7.44	7.44	7.44	7.44	7.44	7.44	7.44	7.39	7.49
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.62	3.72
Decachlorobiphenyl	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.56	8.66

FORM VI PEST-1

VR82:00121

6D
8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	RT OF STANDARDS							MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		FROM	TO
Oxychlorane	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.15	6.25
2,4-DDE	6.45	6.45	6.45	6.45	6.45	6.45	6.45	6.45	6.40	6.50
trans-Nonachlor	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.51	6.61
2,4-DDD	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.89	6.99
2,4-DDT	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.18	7.28
cis-Nonachlor	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.24	7.34
Mirex	8.43	8.43	8.43	8.43	8.43	8.43	8.43	8.43	8.38	8.48
Tetrachloro-m-xylene	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	3.96	4.06
Decachlorobiphenyl	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.52	9.62

FORM VI PEST-1

VR82:00122

8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	CALIBRATION FACTORS							MEAN	R ²
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		
Oxychlorane	1.2075	1.0390	1.0107	0.9691	0.9497	0.9191	0.8679	0.9947	11.0
2,4-DDE	0.8809	0.7598	0.7410	0.7297	0.7047	0.6744	0.6274	0.7311	10.9
trans-Nonachlor	1.3975	1.2236	1.1955	1.1584	1.1389	1.1150	1.0643	1.1847	9.1
2,4-DDD	0.8017	0.6924	0.6634	0.6359	0.6204	0.6009	0.5700	0.6550	11.6
2,4-DDT	0.8939	0.7774	0.7494	0.7225	0.7039	0.6924	0.6502	0.7414	10.6
cis-Nonachlor	1.4493	1.2717	1.2594	1.2276	1.2192	1.2034	1.1538	1.2549	7.5
Mirex	1.0931	0.9043	0.8544	0.7952	0.7622	0.7376	0.7004	0.8353	15.9
Tetrachloro-m-xylene	1.3460	1.2798	1.2458	1.1734	1.1286	1.0704	1.0536	1.1854	9.3
Decachlorobiphenyl	1.3890	1.2243	1.1239	1.0205	0.9531	0.8948	0.8784	1.0691	17.6

FORM VI PEST-2

VR82: 00123

6E
8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 10/03/12

COMPOUND	CALIBRATION FACTORS							MEAN	R ²
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7		
Oxychlorane	1.2276	1.0951	1.0852	1.0203	0.9700	0.9037	0.8394	1.0202	12.8
2,4-DDE	0.9795	0.8349	0.7999	0.7348	0.6762	0.6053	0.5337	0.7378	20.3
trans-Nonachlor	2.0049	1.7706	1.7565	1.6845	1.5851	1.4861	1.3560	1.6634	12.7
2,4-DDD	1.1355	0.9797	0.9448	0.8995	0.8441	0.7771	0.6914	0.8960	16.1
2,4-DDT	1.2121	1.0533	1.0307	0.9841	0.9224	0.8676	0.7723	0.9775	14.5
cis-Nonachlor	2.0973	1.8438	1.8172	1.7490	1.6479	1.5661	1.4532	1.7392	12.1
Mirex	1.2745	1.0584	1.0014	0.9248	0.8611	0.8279	0.7832	0.9616	17.5
Tetrachloro-m-xylene	1.6512	1.5834	1.5355	1.4058	1.2945	1.1692	1.0938	1.3905	15.3
Decachlorobiphenyl	1.5427	1.4016	1.2929	1.1902	1.1187	1.0455	1.0196	1.2302	15.7

FORM VI PEST-2

VR82: 00124

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

YZ 12/01/12

Lab ID: DS

ARI Job No.: VR82

Analysis Date: 30-NOV-2012 15:59

Init. Calib. Date: 03-OCT-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	6.009	143709
Endrin	6.513	7486618
4,4'-DDD	6.564	664211
4,4'-DDT	6.820	6783814
Endrin ketone	7.738	587381
Endrin aldehyde	7.096	100309

DDT Percent Breakdown = 10.6 %
 $((143709+664211) * 100) / (143709+664211+6783814)$

Endrin Percent Breakdown = 8.4 %
 $((100309+587381) * 100) / (100309+587381+7486618)$

GC Column: STX-CLP2 ID: 0.53 (mm)

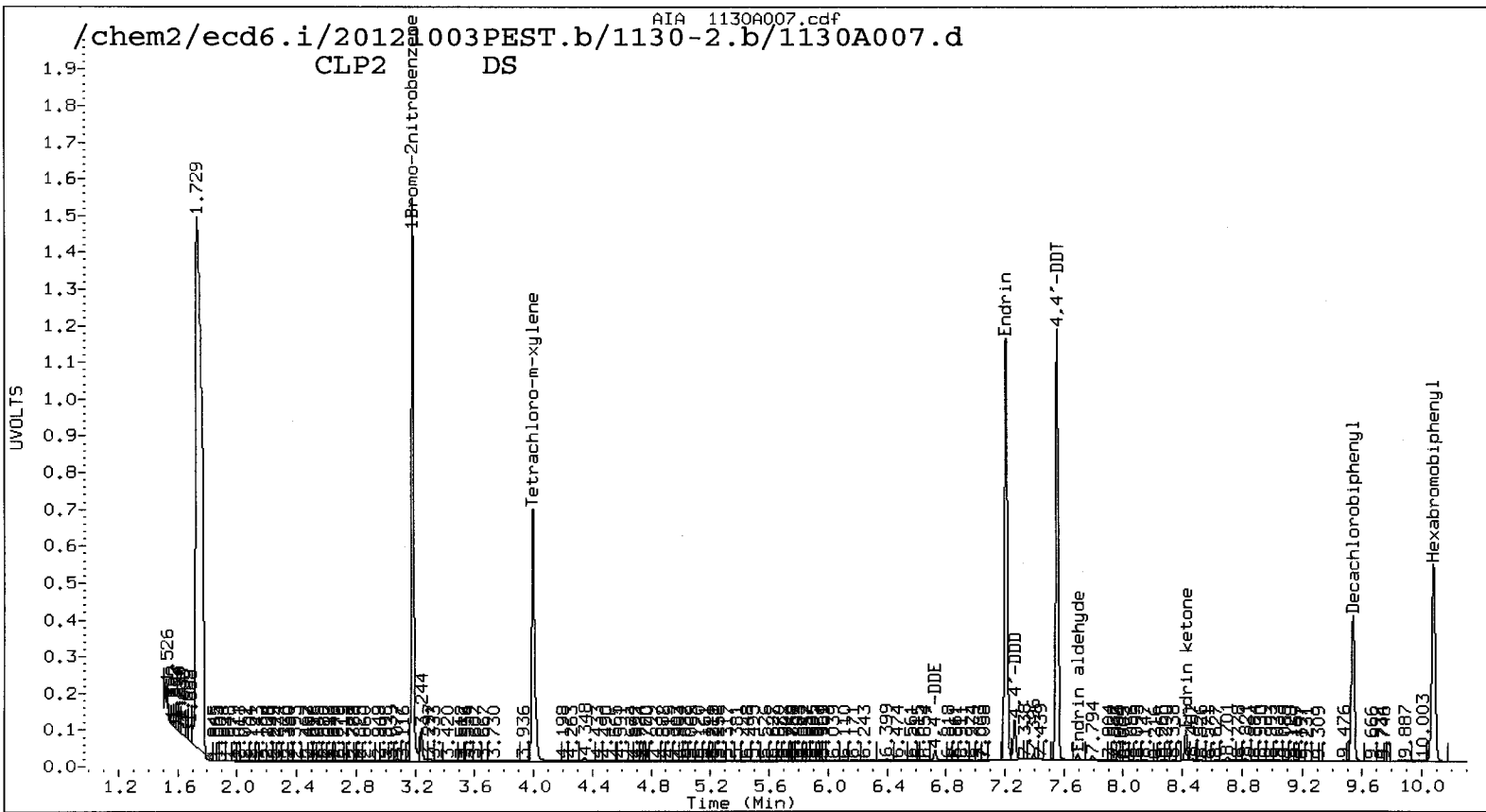
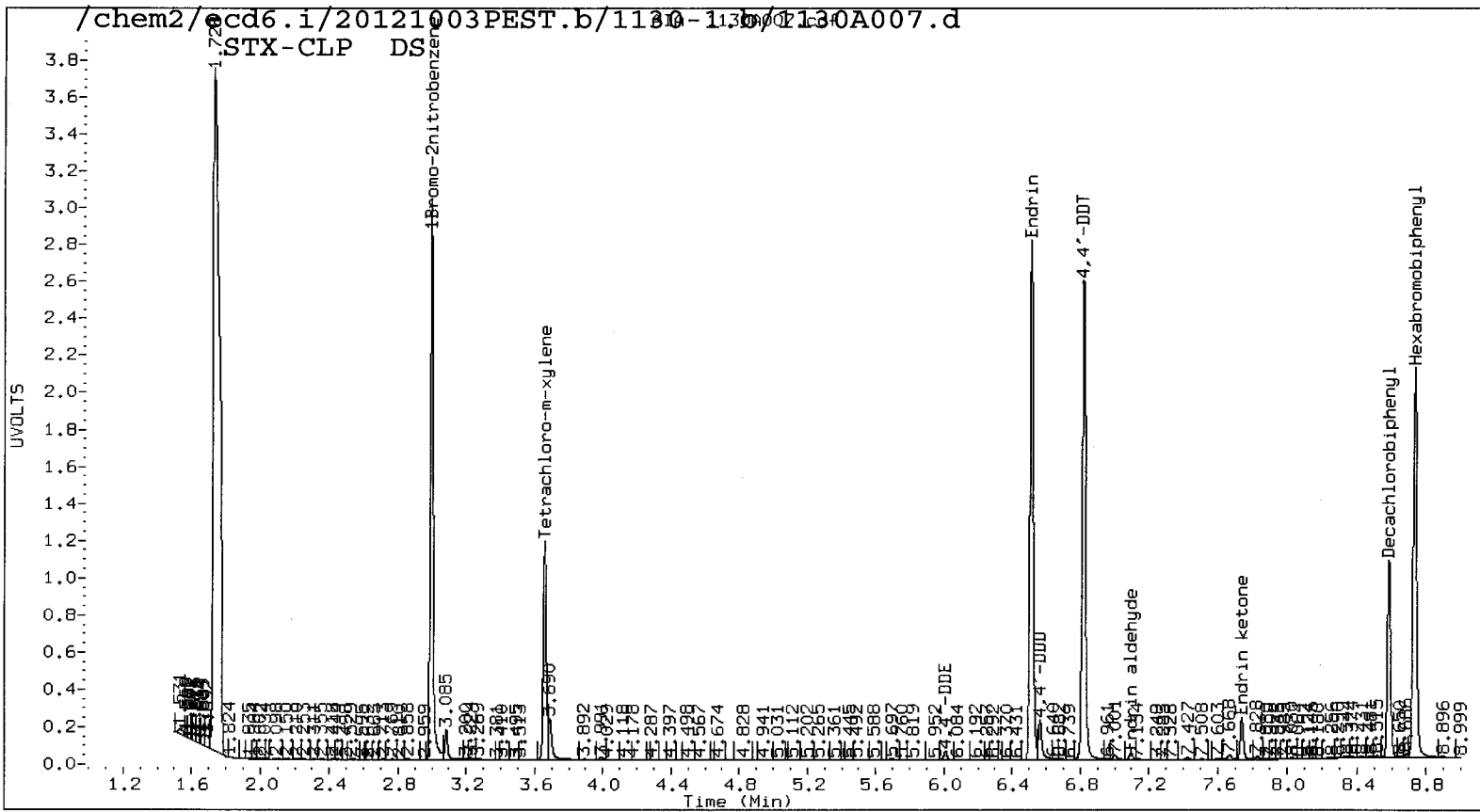
COMPOUND	RT	AREA
4,4'-DDE	6.725	922185
Endrin	7.204	29951505
4,4'-DDD	7.263	2759526
4,4'-DDT	7.551	27765288
Endrin ketone	8.424	1973869
Endrin aldehyde	7.692	380290

DDT Percent Breakdown = 11.7 %
 $((922185+2759526) * 100) / (922185+2759526+27765288)$

Endrin Percent Breakdown = 7.3 %
 $((380290+1973869) * 100) / (380290+1973869+29951505)$

Form VII Pest-1

VR82: 00125



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,1617

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.13	4.10	4.20	21.6	20.0	8.1
beta-BHC	4.50	4.45	4.55	20.4	20.0	2.1
delta-BHC	4.66	4.61	4.71	21.4	20.0	6.8
gamma-BHC (Lindane)	4.41	4.37	4.47	20.4	20.0	2.2
Heptachlor	4.84	4.81	4.91	20.8	20.0	4.1
Aldrin	5.12	5.10	5.20	20.8	20.0	4.1
Heptachlor epoxide b	5.70	5.67	5.77	20.1	20.0	0.6
Endosulfan I	6.07	6.05	6.15	21.6	20.0	7.9
Dieldrin	6.30	6.27	6.37	42.1	40.0	5.2
4,4'-DDE	6.01	5.98	6.08	42.1	40.0	5.3
Endrin	6.51	6.49	6.59	41.4	40.0	3.5
Endosulfan II	6.72	6.70	6.80	40.0	40.0	0.0
4,4'-DDD	6.57	6.53	6.63	47.7	40.0	19.3
Endosulfan sulfate	7.49	7.46	7.56	41.1	40.0	2.7
4,4'-DDT	6.82	6.79	6.89	41.5	40.0	3.8
Methoxychlor	7.25	7.22	7.32	192.1	200.0	-4.0
Endrin ketone	7.74	7.72	7.82	42.2	40.0	5.4
Endrin aldehyde	7.10	7.07	7.17	40.3	40.0	0.8
gamma-Chlordane	5.82	5.79	5.89	20.6	20.0	2.9
alpha-Chlordane	5.94	5.92	6.02	20.0	20.0	-0.2
Hexachlorobutadiene	2.19	2.16	2.26	20.0	20.0	0.1
Hexachlorobenzene	4.00	3.95	4.05	21.1	20.0	5.5
Tetrachloro-m-xylene	3.66	3.62	3.72	36.7	40.0	-8.3
Decachlorobiphenyl	8.59	8.56	8.66	39.3	40.0	-1.7

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,1617

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.57	4.54	4.64	21.2	20.0	5.8
beta-BHC	5.00	4.96	5.06	20.5	20.0	2.4
delta-BHC	5.30	5.26	5.36	19.0	20.0	-4.9
gamma-BHC (Lindane)	4.92	4.89	4.99	20.4	20.0	1.8
Heptachlor	5.37	5.35	5.45	20.8	20.0	3.8
Aldrin	5.71	5.69	5.79	21.1	20.0	5.3
Heptachlor epoxide b	6.27	6.24	6.34	20.4	20.0	2.0
Endosulfan I	6.66	6.63	6.73	20.2	20.0	1.2
Dieldrin	6.91	6.89	6.99	39.8	40.0	-0.5
4,4'-DDE	6.73	6.70	6.80	41.3	40.0	3.3
Endrin	7.20	7.18	7.28	46.2	40.0	15.5
Endosulfan II	7.39	7.37	7.47	46.8	40.0	17.1
4,4'-DDD	7.27	7.23	7.33	50.7	40.0	26.7 <-
Endosulfan sulfate	7.94	7.91	8.01	43.4	40.0	8.6
4,4'-DDT	7.55	7.52	7.62	41.4	40.0	3.5
Methoxychlor	8.14	8.11	8.21	192.6	200.0	-3.7
Endrin ketone	8.42	8.40	8.50	44.4	40.0	11.0
Endrin aldehyde	7.69	7.66	7.76	44.4	40.0	11.1
gamma-Chlordane	6.45	6.43	6.53	19.7	20.0	-1.6
alpha-Chlordane	6.59	6.56	6.66	19.2	20.0	-3.8
Hexachlorobutadiene	2.36	2.33	2.43	16.5	20.0	-17.4
Hexachlorobenzene	4.45	4.41	4.51	26.4	20.0	32.0 <-
Tetrachloro-m-xylene	4.00	3.96	4.06	40.8	40.0	2.1
Decachlorobiphenyl	9.54	9.52	9.62	49.6	40.0	23.9 <-

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: VR82

Analysis Date: 30-NOV-2012 19:15

Init. Calib. Date: 03-OCT-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	6.008	64274
Endrin	6.513	6375782
4,4'-DDD	6.564	1277833
4,4'-DDT	6.820	4087732
Endrin ketone	7.738	557586
Endrin aldehyde	7.096	60442

DDT Percent Breakdown = 24.7 %
 $((64274+1277833) * 100) / (64274+1277833+4087732)$

Endrin Percent Breakdown = 8.8 %
 $((60442+557586) * 100) / (60442+557586+6375782)$

GC Column: STX-CLP2 ID: 0.53 (mm)

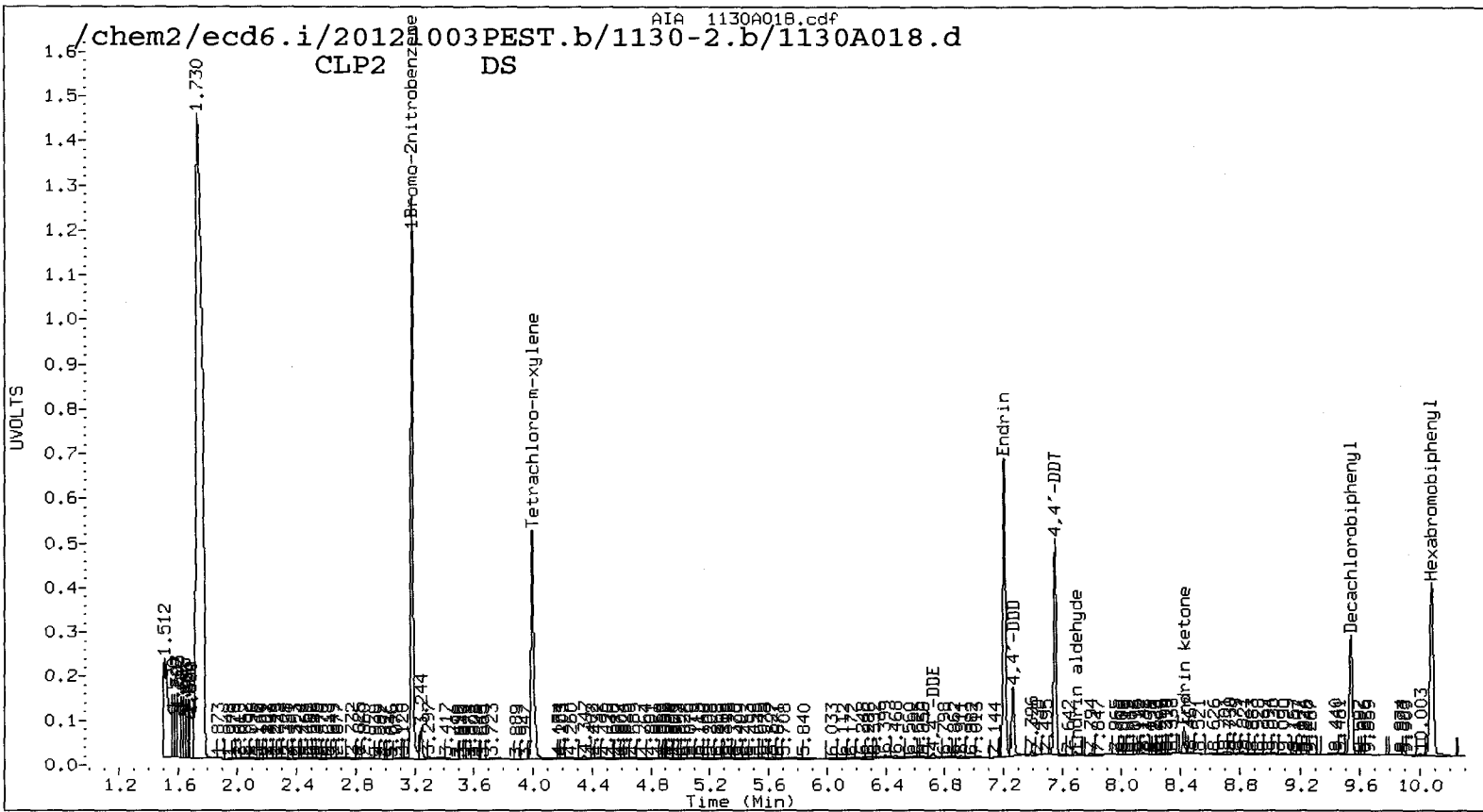
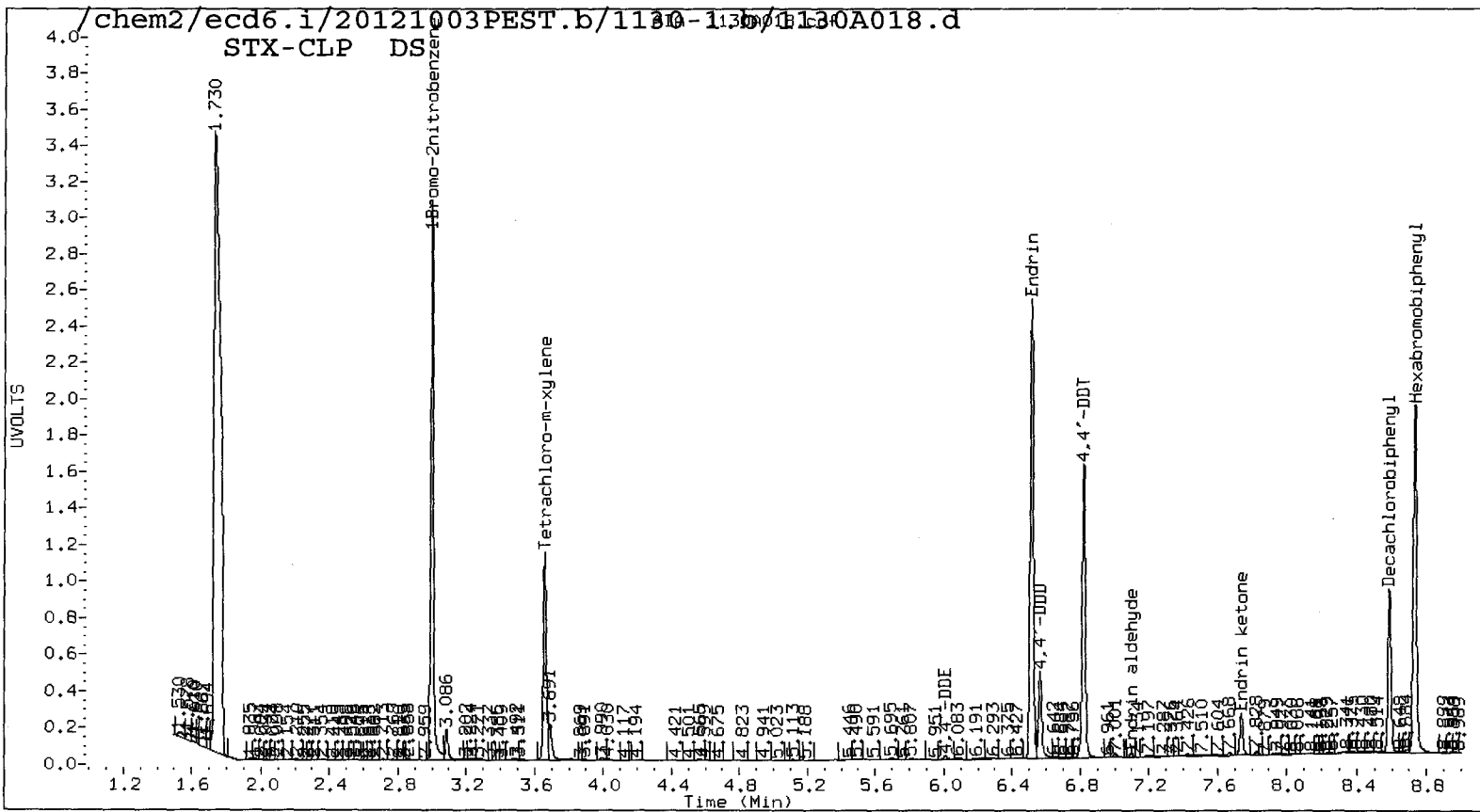
COMPOUND	RT	AREA
4,4'-DDE	6.725	527027
Endrin	7.204	16074487
4,4'-DDD	7.264	3849955
4,4'-DDT	7.550	11157304
Endrin ketone	8.424	1408158
Endrin aldehyde	7.692	183946

DDT Percent Breakdown = 28.2 %
 $((527027+3849955) * 100) / (527027+3849955+11157304)$

Endrin Percent Breakdown = 9.0 %
 $((183946+1408158) * 100) / (183946+1408158+16074487)$

Form VII Pest-1

VR82: 00131



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,1932

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.13	4.10	4.20	21.0	20.0	5.1
beta-BHC	4.49	4.45	4.55	19.4	20.0	-2.9
delta-BHC	4.66	4.61	4.71	21.0	20.0	5.1
gamma-BHC (Lindane)	4.41	4.37	4.47	19.8	20.0	-1.2
Heptachlor	4.84	4.81	4.91	19.5	20.0	-2.6
Aldrin	5.12	5.10	5.20	19.8	20.0	-0.9
Heptachlor epoxide b	5.70	5.67	5.77	18.7	20.0	-6.3
Endosulfan I	6.07	6.05	6.15	19.7	20.0	-1.7
Dieldrin	6.30	6.27	6.37	38.8	40.0	-3.0
4,4'-DDE	6.01	5.98	6.08	39.0	40.0	-2.6
Endrin	6.51	6.49	6.59	40.4	40.0	1.0
Endosulfan II	6.72	6.70	6.80	39.6	40.0	-1.0
4,4'-DDD	6.57	6.53	6.63	49.9	40.0	24.8
Endosulfan sulfate	7.49	7.46	7.56	40.5	40.0	1.3
4,4'-DDT	6.82	6.79	6.89	33.3	40.0	-16.8
Methoxychlor	7.25	7.22	7.32	162.4	200.0	-18.8
Endrin ketone	7.74	7.72	7.82	42.4	40.0	6.0
Endrin aldehyde	7.10	7.07	7.17	39.3	40.0	-1.7
gamma-Chlordane	5.82	5.79	5.89	19.0	20.0	-5.0
alpha-Chlordane	5.94	5.92	6.02	18.4	20.0	-8.2
Hexachlorobutadiene	2.20	2.16	2.26	19.4	20.0	-3.0
Hexachlorobenzene	4.00	3.95	4.05	20.3	20.0	1.6
Tetrachloro-m-xylene	3.66	3.62	3.72	35.5	40.0	-11.4
Decachlorobiphenyl	8.59	8.56	8.66	38.0	40.0	-5.1

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,1932

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.57	4.54	4.64	19.2	20.0	-4.1
beta-BHC	5.00	4.96	5.06	17.5	20.0	-12.7
delta-BHC	5.30	5.26	5.36	16.8	20.0	-16.2
gamma-BHC (Lindane)	4.92	4.89	4.99	17.8	20.0	-10.9
Heptachlor	5.37	5.35	5.45	17.0	20.0	-14.9
Aldrin	5.71	5.69	5.79	17.0	20.0	-15.1
Heptachlor epoxide b	6.27	6.24	6.34	15.5	20.0	-22.3 <-
Endosulfan I	6.66	6.63	6.73	15.3	20.0	-23.7 <-
Dieldrin	6.91	6.89	6.99	29.3	40.0	-26.9 <-
4,4'-DDE	6.73	6.70	6.80	30.3	40.0	-24.2 <-
Endrin	7.20	7.18	7.28	40.8	40.0	2.1
Endosulfan II	7.39	7.37	7.47	41.6	40.0	4.1
4,4'-DDD	7.26	7.23	7.33	48.2	40.0	20.4 <-
Endosulfan sulfate	7.94	7.91	8.01	38.3	40.0	-4.3
4,4'-DDT	7.55	7.52	7.62	28.5	40.0	-28.8 <-
Methoxychlor	8.14	8.11	8.21	160.4	200.0	-19.8
Endrin ketone	8.42	8.40	8.50	39.3	40.0	-1.7
Endrin aldehyde	7.69	7.66	7.76	38.3	40.0	-4.3
gamma-Chlordane	6.45	6.43	6.53	14.9	20.0	-25.4 <-
alpha-Chlordane	6.59	6.56	6.66	14.4	20.0	-28.2 <-
Hexachlorobutadiene	2.36	2.33	2.43	16.0	20.0	-20.2 <-
Hexachlorobenzene	4.45	4.41	4.51	23.9	20.0	19.4
Tetrachloro-m-xylene	3.99	3.96	4.06	38.2	40.0	-4.6
Decachlorobiphenyl	9.54	9.52	9.62	46.1	40.0	15.4

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: WNDE

Date/Time Analyzed: 11/30/12,1950

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Hexachloroethane	1.73	1.69	1.79	0.0	20.0	-100.0
Oxychlorthane	5.60	5.58	5.68	40.4	40.0	0.9
2,4-DDE	5.69	5.65	5.75	44.0	40.0	10.0
trans-Nonachlor	5.93	5.90	6.00	42.1	40.0	5.1
2,4-DDD	6.18	6.14	6.24	48.4	40.0	21.1
2,4-DDT	6.41	6.38	6.48	33.2	40.0	-16.9
cis-Nonachlor	6.54	6.52	6.62	42.6	40.0	6.5
Mirex	7.41	7.39	7.49	37.0	40.0	-7.5

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: WNDE

Date/Time Analyzed: 11/30/12,1950

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Hexachloroethane	1.73	1.68	1.78	0.0	40.0	-100.0 <-
Oxychlorane	6.18	6.15	6.25	33.5	40.0	-16.3
2,4-DDE	6.44	6.40	6.50	35.3	40.0	-11.8
trans-Nonachlor	6.54	6.51	6.61	44.1	40.0	10.1
2,4-DDD	6.92	6.89	6.99	52.6	40.0	31.6 <-
2,4-DDT	7.21	7.18	7.28	33.9	40.0	-15.2
cis-Nonachlor	7.26	7.24	7.34	41.9	40.0	4.8
Mirex	8.41	8.38	8.48	34.2	40.0	-14.4

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: VR82

Analysis Date: 30-NOV-2012 21:37

Init. Calib. Date: 03-OCT-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	6.006	51793
Endrin	6.512	6130354
4,4'-DDD	6.563	1824927
4,4'-DDT	6.819	2976927
Endrin ketone	7.738	648519
Endrin aldehyde	7.096	57812

DDT Percent Breakdown = 38.7 %
((51793+1824927) * 100) / (51793+1824927+2976927)

Endrin Percent Breakdown = 10.3 %
((57812+648519) * 100) / (57812+648519+6130354)

GC Column: STX-CLP2 ID: 0.53 (mm)

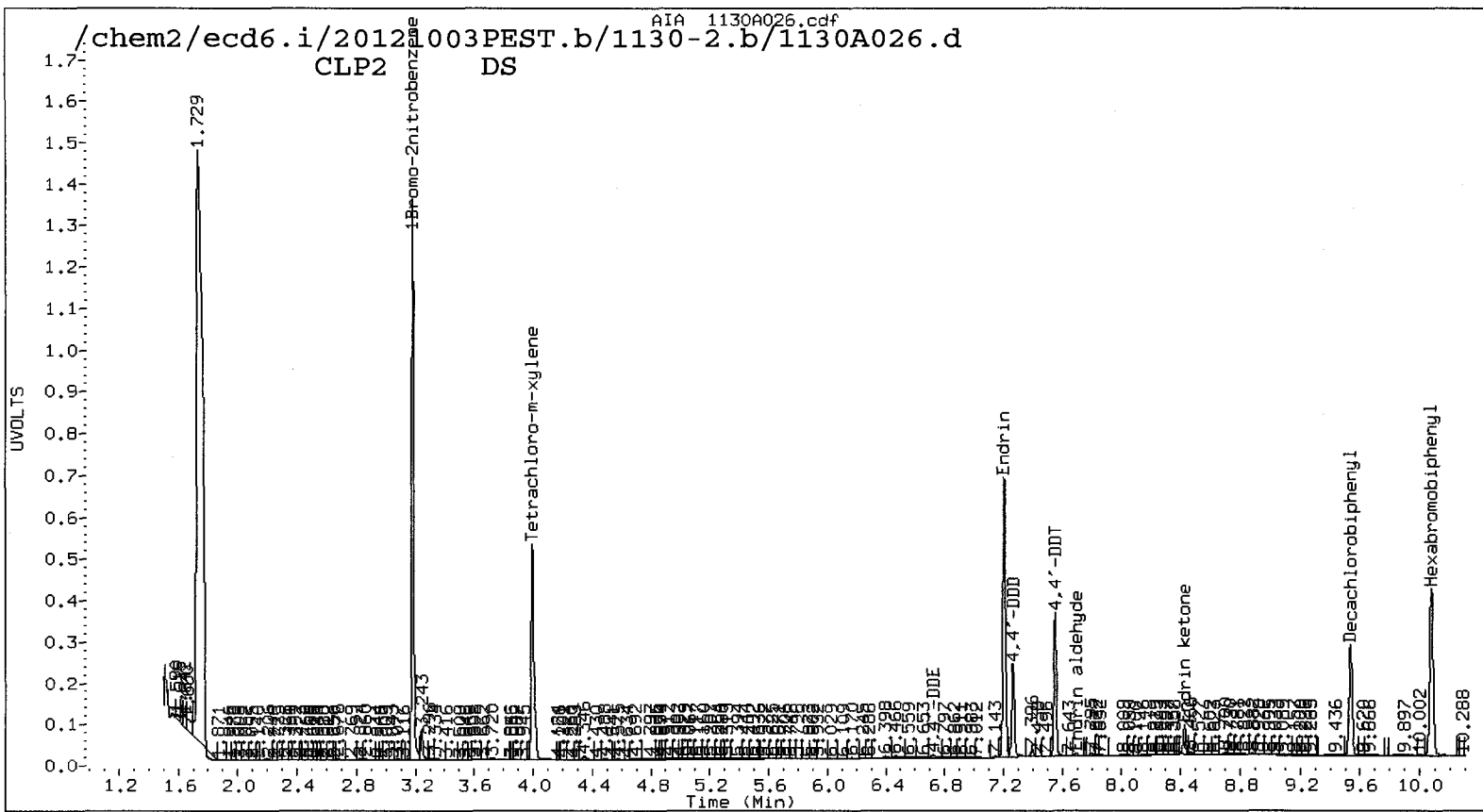
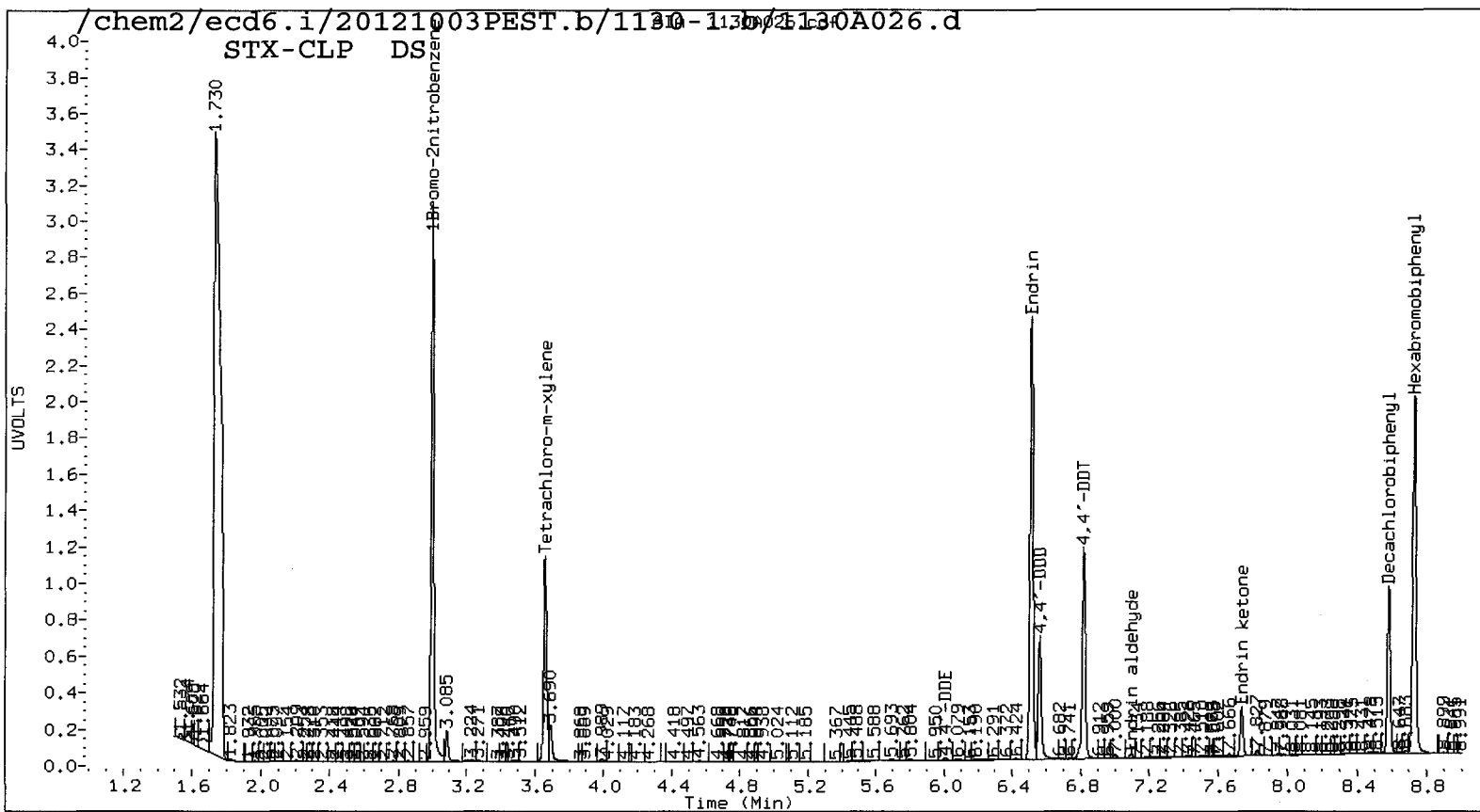
COMPOUND	RT	AREA
4,4'-DDE	6.723	414338
Endrin	7.204	16344733
4,4'-DDD	7.263	5505098
4,4'-DDT	7.550	7934671
Endrin ketone	8.424	1687890
Endrin aldehyde	7.691	177128

DDT Percent Breakdown = 42.7 %
((414338+5505098) * 100) / (414338+5505098+7934671)

Endrin Percent Breakdown = 10.2 %
((177128+1687890) * 100) / (177128+1687890+16344733)

Form VII Pest-1

VR82: 00137



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,2155

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.13	4.10	4.20	21.0	20.0	4.9
beta-BHC	4.49	4.45	4.55	19.2	20.0	-3.9
delta-BHC	4.66	4.61	4.71	21.0	20.0	5.0
gamma-BHC (Lindane)	4.41	4.37	4.47	19.5	20.0	-2.7
Heptachlor	4.84	4.81	4.91	18.4	20.0	-8.2
Aldrin	5.12	5.10	5.20	19.8	20.0	-0.9
Heptachlor epoxide b	5.70	5.67	5.77	18.8	20.0	-6.2
Endosulfan I	6.07	6.05	6.15	19.8	20.0	-1.2
Dieldrin	6.29	6.27	6.37	39.1	40.0	-2.3
4,4'-DDE	6.01	5.98	6.08	39.1	40.0	-2.1
Endrin	6.51	6.49	6.59	39.0	40.0	-2.6
Endosulfan II	6.72	6.70	6.80	38.8	40.0	-2.9
4,4'-DDD	6.56	6.53	6.63	53.1	40.0	32.7 <-
Endosulfan sulfate	7.48	7.46	7.56	39.9	40.0	-0.3
4,4'-DDT	6.82	6.79	6.89	27.0	40.0	-32.6 <-
Methoxychlor	7.25	7.22	7.32	125.9	200.0	-37.0 <-
Endrin ketone	7.74	7.72	7.82	39.5	40.0	-1.2
Endrin aldehyde	7.10	7.07	7.17	38.7	40.0	-3.2
gamma-Chlordane	5.82	5.79	5.89	19.1	20.0	-4.4
alpha-Chlordane	5.94	5.92	6.02	18.4	20.0	-7.9
Hexachlorobutadiene	2.20	2.16	2.26	19.5	20.0	-2.6
Hexachlorobenzene	3.99	3.95	4.05	20.3	20.0	1.6
Tetrachloro-m-xylene	3.66	3.62	3.72	35.2	40.0	-12.1
Decachlorobiphenyl	8.59	8.56	8.66	37.8	40.0	-5.5

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 11/30/12,2155

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.57	4.54	4.64	19.3	20.0	-3.6
beta-BHC	5.00	4.96	5.06	17.5	20.0	-12.6
delta-BHC	5.30	5.26	5.36	17.0	20.0	-15.0
gamma-BHC (Lindane)	4.92	4.89	4.99	17.6	20.0	-12.0
Heptachlor	5.37	5.35	5.45	16.3	20.0	-18.6
Aldrin	5.71	5.69	5.79	17.4	20.0	-12.9
Heptachlor epoxide b	6.27	6.24	6.34	15.8	20.0	-21.0 <-
Endosulfan I	6.66	6.63	6.73	15.5	20.0	-22.5 <-
Dieldrin	6.91	6.89	6.99	29.9	40.0	-25.3 <-
4,4'-DDE	6.72	6.70	6.80	30.9	40.0	-22.7 <-
Endrin	7.20	7.18	7.28	39.4	40.0	-1.5
Endosulfan II	7.39	7.37	7.47	43.1	40.0	7.8
4,4'-DDD	7.26	7.23	7.33	51.6	40.0	29.0 <-
Endosulfan sulfate	7.94	7.91	8.01	38.0	40.0	-5.0
4,4'-DDT	7.55	7.52	7.62	21.2	40.0	-46.9 <-
Methoxychlor	8.13	8.11	8.21	124.2	200.0	-37.9 <-
Endrin ketone	8.42	8.40	8.50	37.2	40.0	-7.0
Endrin aldehyde	7.69	7.66	7.76	38.0	40.0	-5.1
gamma-Chlordane	6.45	6.43	6.53	15.2	20.0	-23.8 <-
alpha-Chlordane	6.59	6.56	6.66	14.6	20.0	-27.0 <-
Hexachlorobutadiene	2.36	2.33	2.43	16.0	20.0	-20.1 <-
Hexachlorobenzene	4.45	4.41	4.51	24.0	20.0	20.2 <-
Tetrachloro-m-xylene	3.99	3.96	4.06	38.4	40.0	-4.0
Decachlorobiphenyl	9.54	9.52	9.62	46.6	40.0	16.5

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 10/03/12

Lab Ccal ID: WNDE

Date/Time Analyzed: 11/30/12,2213

PEST MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Hexachloroethane	1.73	1.68	1.78	0.0	40.0	-100.0 <-
Oxychlorane	6.18	6.15	6.25	34.1	40.0	-14.8
2,4-DDE	6.43	6.40	6.50	36.3	40.0	-9.3
trans-Nonachlor	6.54	6.51	6.61	44.5	40.0	11.3
2,4-DDD	6.92	6.89	6.99	56.6	40.0	41.5 <-
2,4-DDT	7.21	7.18	7.28	28.9	40.0	-27.7 <-
cis-Nonachlor	7.26	7.24	7.34	42.0	40.0	5.0
Mirex	8.41	8.38	8.48	33.6	40.0	-16.1

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR OEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53(mm)

Instrument ID: ECD6

Init. Calib. Date: 10/03/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1	RT	IS2	RT	
				AREA		AREA		
=====				=====	=====	=====	=====	
				ICAL MIDPT	3.015	3748709	8.750	
				UPPER LIMIT	3.065	7497418	8.800	
				LOWER LIMIT	2.965	1874354	8.700	
				=====	=====	=====	=====	
CLIENT	LAB	DATE	TIME	IS1	RT	IS2	RT	
SAMPLE NO.	SAMPLE ID	ANALYZED		AREA		AREA		
=====	=====	=====	=====	=====	=====	=====	=====	
01		INDAE	10/03/12	1639	4060064	3.015	3748709	8.750
02		INDAA	10/03/12	1656	4049993	3.015	3734455	8.750
03		INDAB	10/03/12	1714	4090558	3.015	3771845	8.750
04		INDAC	10/03/12	1732	4021073	3.015	3724289	8.750
05		INDAD	10/03/12	1750	4048036	3.015	3782157	8.750
06		INDAF	10/03/12	1808	4083237	3.015	3825703	8.750
07		INDAG	10/03/12	1826	4094375	3.015	3786416	8.750
08		WNDE	10/03/12	1919	4208844	3.015	3949210	8.750
09		WNDA	10/03/12	1937	3929689	3.015	3679733	8.750
10		WNDB	10/03/12	1955	4316718	3.015	4014283	8.750
11		WNDC	10/03/12	2012	4166737	3.015	3931640	8.750
12		WNDD	10/03/12	2030	4291231	3.015	4014232	8.750
13		WNDF	10/03/12	2048	4252342	3.015	3949109	8.750
14		WNDG	10/03/12	2106	4304026	3.015	4056513	8.750
15		DS	11/30/12	1559	6552003	2.998	5994720	8.733
16		INDAE	11/30/12	1617	5538796	2.998	4994655	8.736
17		WNDE	11/30/12	1634	4658075	2.999	4262697	8.739
18	VR82MBS1	VR82MBS1	11/30/12	1652	4655011	2.996	4472579	8.728
19	VR82LCSS1	VR82LCSS1	11/30/12	1710	4743386	2.996	4566501	8.728
20	SG-02-S-C-12	VR82A	11/30/12	1728	5025180	2.996	4116354	8.729
21	SG-03-S-C-12	VR82B	11/30/12	1746	4364217	2.996	3521090	8.728
22	SG-04-S-C-12	VR82C	11/30/12	1803	4991431	2.996	3987403	8.726
23	SG-05-S-C-12	VR82D	11/30/12	1821	4818497	2.996	4018942	8.728
24	SG-06-S-C-12	VR82E	11/30/12	1839	4628226	2.996	3707737	8.728
25	SG-07-S-C-12	VR82F	11/30/12	1857	4818273	2.997	3949148	8.728
26		DS	11/30/12	1915	6515905	2.998	5205413	8.730
27		INDAE	11/30/12	1932	5410463	2.999	4566810	8.732
28		WNDE	11/30/12	1950	4614328	3.000	4075132	8.734
29	SG-07-S-C-DU	VR82G	11/30/12	2008	4443827	2.996	3737867	8.729
30	SG-08-S-C-12	VR82H	11/30/12	2026	4782574	2.996	4000713	8.728
31	SG-08-S-C-12	VR82HMS	11/30/12	2044	4621447	2.997	3985312	8.728
32	SG-08-S-C-12	VR82HMSD	11/30/12	2101	4954083	2.997	4026461	8.728
33	SG-09-S-C-12	VR82I	11/30/12	2119	4793017	2.997	3887602	8.729
34		DS	11/30/12	2137	6489557	2.997	5323344	8.729
35		INDAE	11/30/12	2155	5436151	2.999	4681680	8.731

IS1 = 1-Bromo-2-Nitrobenzene

RT Window = RT +/- .05 min

VR82: 00143

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 10/03/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
ICAL MIDPT				4060064	3.015	3748709	8.750
UPPER LIMIT				8120128	3.065	7497418	8.800
LOWER LIMIT				2030032	2.965	1874354	8.700
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
=====	=====	=====	=====	=====	=====	=====	=====
36	WNDE	11/30/12	2213	4619814	2.999	4127168	8.733

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR OEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 10/03/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
			ICAL MIDPT	21032891	3.195	14864285	10.105
			UPPER LIMIT	42065782	3.245	29728570	10.155
			LOWER LIMIT	10516446	3.145	7432142	10.055
=====				=====	=====	=====	=====
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
=====	=====	=====	=====	=====	=====	=====	=====
01		10/03/12	1639	21032891	3.195	14864285	10.105
02		10/03/12	1656	21107593	3.195	14677423	10.106
03		10/03/12	1714	21416427	3.195	15039648	10.106
04		10/03/12	1732	21029129	3.195	15016060	10.106
05		10/03/12	1750	21297295	3.195	15199043	10.107
06		10/03/12	1808	21266311	3.195	15407292	10.106
07		10/03/12	1826	21395806	3.195	15257890	10.107
08		10/03/12	1919	22225166	3.195	15958085	10.105
09		10/03/12	1937	20878006	3.195	14804646	10.106
10		10/03/12	1955	22757667	3.195	16320408	10.106
11		10/03/12	2012	22095258	3.195	16032237	10.106
12		10/03/12	2030	22892989	3.195	16280005	10.106
13		10/03/12	2048	22617896	3.195	16310554	10.106
14		10/03/12	2106	22734029	3.195	16771085	10.106
15		11/30/12	1559	30614276	3.181	17806580	10.076
16		11/30/12	1617	26418809	3.180	15369595	10.077
17		11/30/12	1634	22815103	3.181	13620753	10.080
18	VR82MBS1	11/30/12	1652	20895374	3.179	13086270	10.074
19	VR82LCSS1	11/30/12	1710	20350750	3.179	12968178	10.074
20	SG-02-S-C-12	11/30/12	1728	19748692	3.179	9160171	10.075
21	SG-03-S-C-12	11/30/12	1746	14815254	3.179	7758504	10.074
22	SG-04-S-C-12	11/30/12	1803	18301355	3.179	9727599	10.074
23	SG-05-S-C-12	11/30/12	1821	19244194	3.178	8808986	10.074
24	SG-06-S-C-12	11/30/12	1839	16671388	3.179	8151614	10.075
25	SG-07-S-C-12	11/30/12	1857	17126083	3.179	8884012	10.075
26		11/30/12	1915	24328938	3.181	13107741	10.075
27		11/30/12	1932	26766948	3.181	12115436	10.076
28		11/30/12	1950	23604181	3.182	11680392	10.076
29	SG-07-S-C-DU	11/30/12	2008	19254937	3.179	8550885	10.076
30	SG-08-S-C-12	11/30/12	2026	17313292	3.179	9531542	10.075
31	SG-08-S-C-12	11/30/12	2044	17703402	3.179	8892720	10.075
32	SG-08-S-C-12	11/30/12	2101	18715738	3.179	9267814	10.075
33	SG-09-S-C-12	11/30/12	2119	18085432	3.179	8764959	10.075
34		11/30/12	2137	26173440	3.179	13590503	10.075
35		11/30/12	2155	26790623	3.181	12496605	10.075

IS1 = 1-Bromo-2-Nitrobenzene

RT Window = RT +/- .05 min

VR82 : 00145

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR82

Project: CITY OF KENMORE SEDIMENTS

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 10/03/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT
=====				=====	=====	=====	=====
ICAL MIDPT				21032891	3.195	14864285	10.105
UPPER LIMIT				42065782	3.245	29728570	10.155
LOWER LIMIT				10516446	3.145	7432142	10.055
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
=====	=====	=====	=====	=====	=====	=====	=====
36	WNDE	11/30/12	2213	23543252	3.181	11832818	10.076

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

**PCB Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-02-S-C-121108

SAMPLE

Lab Sample ID: VR82A

LIMS ID: 12-22479

Matrix: Sediment

Data Release Authorized: *B*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/24/12 23:29

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.18 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 73.0%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.9	19	< 19 U
53469-21-9	Aroclor 1242	6.6	19	< 19 U
12672-29-6	Aroclor 1248	6.6	58	< 58 Y
11097-69-1	Aroclor 1254	6.6	19	88
11096-82-5	Aroclor 1260	6.6	19	33
11104-28-2	Aroclor 1221	6.6	19	< 19 U
11141-16-5	Aroclor 1232	6.6	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.5%
Tetrachlorometaxylene	77.8%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-03-S-C-121108

SAMPLE

Lab Sample ID: VR82B

LIMS ID: 12-22480

Matrix: Sediment

Data Release Authorized: *B*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/24/12 23:50

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.22 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 75.2%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.9	19	< 19 U
53469-21-9	Aroclor 1242	6.5	19	< 19 U
12672-29-6	Aroclor 1248	6.5	38	< 38 Y
11097-69-1	Aroclor 1254	6.5	48	< 48 Y
11096-82-5	Aroclor 1260	6.5	19	22
11104-28-2	Aroclor 1221	6.5	19	< 19 U
11141-16-5	Aroclor 1232	6.5	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.5%
Tetrachlorometaxylene	77.5%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-04-S-C-121108

SAMPLE

Lab Sample ID: VR82C

LIMS ID: 12-22481

Matrix: Sediment

Data Release Authorized: *AS*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/25/12 00:10

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.14 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 15.8%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	5.0	20	< 20 U
53469-21-9	Aroclor 1242	6.6	20	< 20 U
12672-29-6	Aroclor 1248	6.6	20	< 20 U
11097-69-1	Aroclor 1254	6.6	20	< 20 U
11096-82-5	Aroclor 1260	6.6	20	< 20 U
11104-28-2	Aroclor 1221	6.6	20	< 20 U
11141-16-5	Aroclor 1232	6.6	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.0%
Tetrachlorometaxylene	80.5%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-05-S-C-121108
SAMPLE

Lab Sample ID: VR82D
 LIMS ID: 12-22482
 Matrix: Sediment
 Data Release Authorized:
 Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/16/12
 Date Analyzed: 11/25/12 01:11
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 5.15 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 66.1%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.9	19	< 19 U
53469-21-9	Aroclor 1242	6.6	19	< 19 U
12672-29-6	Aroclor 1248	6.6	19	< 19 U
11097-69-1	Aroclor 1254	6.6	29	< 29 Y
11096-82-5	Aroclor 1260	6.6	19	< 19 U
11104-28-2	Aroclor 1221	6.6	19	< 19 U
11141-16-5	Aroclor 1232	6.6	29	< 29 Y

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.5%
Tetrachlorometaxylene	82.0%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-06-S-C-121108

SAMPLE

Lab Sample ID: VR82E

LIMS ID: 12-22483

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/25/12 01:31

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.28 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 71.0%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.8	19	< 19 U
53469-21-9	Aroclor 1242	6.4	19	< 19 U
12672-29-6	Aroclor 1248	6.4	19	< 19 U
11097-69-1	Aroclor 1254	6.4	28	< 28 Y
11096-82-5	Aroclor 1260	6.4	19	< 19 U
11104-28-2	Aroclor 1221	6.4	19	< 19 U
11141-16-5	Aroclor 1232	6.4	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	87.0%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1


Sample ID: SG-07-S-C-121108

SAMPLE

Lab Sample ID: VR82F

LIMS ID: 12-22484

Matrix: Sediment

Data Release Authorized: 

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/25/12 01:52

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.30 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 64.9%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.8	19	< 19 U
53469-21-9	Aroclor 1242	6.4	19	< 19 U
12672-29-6	Aroclor 1248	6.4	19	< 19 U
11097-69-1	Aroclor 1254	6.4	19	< 19 U
11096-82-5	Aroclor 1260	6.4	19	< 19 U
11104-28-2	Aroclor 1221	6.4	19	< 19 U
11141-16-5	Aroclor 1232	6.4	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	85.0%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

**Sample ID: SG-07-S-C-dup-121108
SAMPLE**

Lab Sample ID: VR82G

LIMS ID: 12-22485

Matrix: Sediment

Data Release Authorized: *B*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments
120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/25/12 02:12

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.16 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 63.4%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.9	19	< 19 U
53469-21-9	Aroclor 1242	6.6	19	< 19 U
12672-29-6	Aroclor 1248	6.6	19	< 19 U
11097-69-1	Aroclor 1254	6.6	19	22
11096-82-5	Aroclor 1260	6.6	19	< 19 U
11104-28-2	Aroclor 1221	6.6	19	< 19 U
11141-16-5	Aroclor 1232	6.6	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.8%
Tetrachlorometaxylene	87.0%

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SG-08-S-C-121108
SAMPLE

Lab Sample ID: VR82H
 LIMS ID: 12-22486
 Matrix: Sediment
 Data Release Authorized: *B*
 Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: 11/08/12
 Date Received: 11/08/12

Date Extracted: 11/16/12
 Date Analyzed: 11/25/12 02:33
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 5.44 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 58.5%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	4.7	18	< 18 U
53469-21-9	Aroclor 1242	6.2	18	< 18 U
12672-29-6	Aroclor 1248	6.2	18	< 18 U
11097-69-1	Aroclor 1254	6.2	18	< 18 U
11096-82-5	Aroclor 1260	6.2	18	< 18 U
11104-28-2	Aroclor 1221	6.2	18	< 18 U
11141-16-5	Aroclor 1232	6.2	18	< 18 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	84.0%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: SG-09-S-C-121108

SAMPLE

Lab Sample ID: VR82I

LIMS ID: 12-22487

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments

120891-01.01

Date Sampled: 11/08/12

Date Received: 11/08/12

Date Extracted: 11/16/12

Date Analyzed: 11/25/12 02:53

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.12 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 63.7%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	5.0	20	< 20 U
53469-21-9	Aroclor 1242	6.6	20	< 20 U
12672-29-6	Aroclor 1248	6.6	20	< 20 U
11097-69-1	Aroclor 1254	6.6	20	< 20 U
11096-82-5	Aroclor 1260	6.6	20	< 20 U
11104-28-2	Aroclor 1221	6.6	20	< 20 U
11141-16-5	Aroclor 1232	6.6	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.5%
Tetrachlorometaxylene	83.8%

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01

<u>Client ID</u>	<u>DCBP % REC</u>	<u>DCBP LCL-UCL</u>	<u>TCMX % REC</u>	<u>TCMX LCL-UCL</u>	<u>TOT</u>	<u>OUT</u>
MB-111612	104%	48-123	106%	43-107	0	
LCS-111612	99.8%	48-123	98.0%	43-107	0	
SRM PSR	92.0%	24-127	96.5%	34-109	0	
SG-02-S-C-121108	78.5%	24-127	77.8%	34-109	0	
SG-03-S-C-121108	78.5%	24-127	77.5%	34-109	0	
SG-04-S-C-121108	86.0%	24-127	80.5%	34-109	0	
SG-05-S-C-121108	86.5%	24-127	82.0%	34-109	0	
SG-06-S-C-121108	89.0%	24-127	87.0%	34-109	0	
SG-07-S-C-121108	86.2%	24-127	85.0%	34-109	0	
SG-07-S-C-dup-121108	90.8%	24-127	87.0%	34-109	0	
SG-08-S-C-121108	85.5%	24-127	84.0%	34-109	0	
SG-09-S-C-121108	82.5%	24-127	83.8%	34-109	0	

Microwave (MARS) Control Limits PCBSMM
Prep Method: SW3546
Log Number Range: 12-22479 to 12-22487

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: SRM PSR
STANDARD REFERENCE

Lab Sample ID: SRM PSR
 LIMS ID: 12-22479
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.
 Project: City of Kenmore Sediments
 120891-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 11/16/12
 Date Analyzed: 11/24/12 18:24
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 5.00 g-dry-wt
 Final Extract Volume: 5.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 0.0%

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	5.1	20	< 20 U
53469-21-9	Aroclor 1242	6.8	20	< 20 U
12672-29-6	Aroclor 1248	6.8	50	< 50 Y
11097-69-1	Aroclor 1254	6.8	20	100
11096-82-5	Aroclor 1260	6.8	20	150
11104-28-2	Aroclor 1221	6.8	20	< 20 U
11141-16-5	Aroclor 1232	6.8	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.0%
Tetrachlorometaxylene	96.5%

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: LCS-111612

LAB CONTROL

Lab Sample ID: LCS-111612

LIMS ID: 12-22479

Matrix: Sediment

Data Release Authorized: *B*

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments
120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/16/12

Date Analyzed: 11/24/12 18:04

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 5.00 g-dry-wt

Final Extract Volume: 5.00 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	480	500	96.0%
Aroclor 1260	549	500	110%

PCB Surrogate Recovery

Decachlorobiphenyl	99.8%
Tetrachlorometaxylene	98.0%

Results reported in µg/kg (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

VR58MBS1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: VR58

Project: CITY OF KENMORE SEDI

Lab Sample ID: VR58MBS1

Lab File ID: 1124A004

Date Extracted: 11/16/12

Matrix: SOLID

Date Analyzed: 11/24/12

Instrument ID: ECD5

Time Analyzed: 1744

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01 VR58LCSS1	VR58LCSS1	11/24/12
02 PSR	VR58SRM1	11/24/12
03 SG-10-S-E-121107	VR58A	11/24/12
04 SG-11-S-E-121107	VR58B	11/24/12
05 SG-12-S-E-121107	VR58C	11/24/12
06 SG-13-S-E-121107	VR58D	11/24/12
07 SG-13-S-E-DUP-12110	VR58E	11/24/12
08 SG-14-S-E-121107	VR58F	11/24/12
09 SG-15-S-E-121107	VR58G	11/24/12
10 SG-16-S-E-121107	VR58H	11/24/12
11 SG-17-S-E-121107	VR58I	11/24/12
12 SG-01-S-C-121107	VR58J	11/24/12
13 SG-01-S-C-12110 MS	VR58JMS	11/24/12
14 SG-01-S-C-12110 MSD	VR58JMSD	11/24/12
15 SG-02-S-C-121108	VR82A	11/24/12
16 SG-03-S-C-121108	VR82B	11/24/12
17 SG-04-S-C-121108	VR82C	11/25/12
18 SG-05-S-C-121108	VR82D	11/25/12
19 SG-06-S-C-121108	VR82E	11/25/12
20 SG-07-S-C-121108	VR82F	11/25/12
21 SG-07-S-C-DUP-12110	VR82G	11/25/12
22 SG-08-S-C-121108	VR82H	11/25/12
23 SG-09-S-C-121108	VR82I	11/25/12

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Extraction Method: SW3546

Page 1 of 1

Sample ID: MB-111612

METHOD BLANK

Lab Sample ID: MB-111612

LIMS ID: 12-22479

Matrix: Sediment

Data Release Authorized:

Reported: 11/26/12

QC Report No: VR82-Anchor QEA, LLC.

Project: City of Kenmore Sediments
120891-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 11/16/12

Date Analyzed: 11/24/12 17:44

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Sample Amount: 5.00 g

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	MDL	RL	Result
12674-11-2	Aroclor 1016	5.1	20	< 20 U
53469-21-9	Aroclor 1242	6.8	20	< 20 U
12672-29-6	Aroclor 1248	6.8	20	< 20 U
11097-69-1	Aroclor 1254	6.8	20	< 20 U
11096-82-5	Aroclor 1260	6.8	20	< 20 U
11104-28-2	Aroclor 1221	6.8	20	< 20 U
11141-16-5	Aroclor 1232	6.8	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	106%

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 11/02/12

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
TCX	4.35- 4.55	1.7463	1.7366	1.7919	1.6885	1.5990	1.4618	1.6707	7.3
DCB	12.76-12.96	1.4419	1.3542	1.3255	1.1568	1.0372	0.9164	1.2053	16.9

Aroclor-1016		LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
Peak	RT WIN	.02	0.05	0.1	.25	0.5	1.0		R ²
1	6.00- 6.20	0.0526	0.0492	0.0480	0.0431	0.0399	0.0355	0.0447	14.3
2	6.40- 6.60	0.1677	0.1545	0.1513	0.1334	0.1220	0.1073	0.1394	16.2
3	6.55- 6.75	0.0718	0.0670	0.0652	0.0578	0.0527	0.0464	0.0601	15.9
4	6.66- 6.86	0.0505	0.0471	0.0462	0.0417	0.0385	0.0340	0.0430	14.2

AROCLOR AVERAGE %RSD = 15.1

Aroclor-1260		LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
Peak	RT WIN	.02	0.05	0.1	.25	0.5	1.0		R ²
1	9.90-10.10	0.0536	0.0493	0.0479	0.0428	0.0388	0.0345	0.0445	12.5
2	10.21-10.41	0.0532	0.0494	0.0483	0.0433	0.0394	0.0351	0.0448	11.6
3	10.59-10.79	0.1298	0.1173	0.1141	0.1011	0.0918	0.0821	0.1060	13.3
4	10.99-11.19	0.0754	0.0665	0.0648	0.0581	0.0527	0.0471	0.0608	13.6
5	11.18-11.38	0.0346	0.0319	0.0317	0.0292	0.0269	0.0244	0.0298	9.5

AROCLOR AVERAGE %RSD = 12.1

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 11/02/12

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
TCX	4.36- 4.56	1.1947	1.1506	1.1889	1.1588	1.1066	1.0428	1.1404	5.0
DCB	13.15-13.35	1.2887	1.1842	1.1439	1.0432	0.9699	0.8923	1.0871	13.5

Aroclor-1016	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD	
Peak RT WIN	.02	0.05	0.1	.25	0.5	1.0		R^2	
1	6.11- 6.31	0.0541	0.0496	0.0481	0.0428	0.0390	0.0352	0.0448	15.8
2	6.74- 6.94	0.1119	0.1025	0.1010	0.0916	0.0847	0.0773	0.0948	13.4
3	7.13- 7.33	0.0277	0.0264	0.0263	0.0242	0.0226	0.0209	0.0247	10.6
4	7.24- 7.44	0.0325	0.0303	0.0296	0.0268	0.0247	0.0226	0.0277	13.5

AROCLOR AVERAGE %RSD = 13.3

Aroclor-1260	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD	
Peak RT WIN	.02	0.05	0.1	.25	0.5	1.0		R^2	
1	10.20-10.40	0.0510	0.0463	0.0455	0.0410	0.0379	0.0345	0.0427	14.1
2	10.65-10.85	0.0605	0.0575	0.0561	0.0509	0.0468	0.0427	0.0524	13.0
3	10.93-11.13	0.1180	0.1138	0.1111	0.1016	0.0945	0.0868	0.1043	11.6
4	11.45-11.65	0.0395	0.0332	0.0327	0.0299	0.0279	0.0254	0.0314	15.7

AROCLOR AVERAGE %RSD = 13.6

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 11/03/12

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	4.817	4.72- 4.92	0.01953
2	4.995	4.89- 5.09	0.01337
3	5.101	5.00- 5.20	0.04356
Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	6.094	5.99- 6.19	0.01822
2	6.497	6.40- 6.60	0.05697
3	6.647	6.55- 6.75	0.02485
4	7.901	7.80- 8.00	0.03114
Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	6.096	6.00- 6.20	0.03480
2	6.500	6.40- 6.60	0.10781
3	6.650	6.55- 6.75	0.04681
4	7.902	7.80- 8.00	0.05490
Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	6.497	6.40- 6.60	0.07048
2	7.473	7.37- 7.57	0.07420
3	7.902	7.80- 8.00	0.09369
4	8.137	8.04- 8.24	0.07222

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 11/03/12

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	8.225	8.12- 8.32	0.09552
2	8.597	8.50- 8.70	0.06279
3	8.731	8.63- 8.83	0.12204
4	9.080	8.98- 9.18	0.13358
5	9.441	9.34- 9.54	0.08400

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.996	9.90-10.10	0.06957
2	10.312	10.21-10.41	0.05282
3	10.687	10.59-10.79	0.13695
4	11.202	11.10-11.30	0.05159
5	11.275	11.18-11.38	0.05664

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	11.203	11.10-11.30	0.13880
2	11.275	11.17-11.37	0.13349
3	11.661	11.56-11.76	0.11731
4	12.449	12.35-12.55	0.33525

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 11/03/12

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	5.141	5.04- 5.24	0.01355
2	5.393	5.29- 5.49	0.00798
3	5.507	5.41- 5.61	0.02510
4	5.576	5.48- 5.68	0.00433
Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	6.210	6.11- 6.31	0.01985
2	6.841	6.74- 6.94	0.03912
3	7.050	6.95- 7.15	0.01635
4	8.276	8.18- 8.38	0.01389
Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	6.210	6.11- 6.31	0.03416
2	6.842	6.74- 6.94	0.07272
3	7.052	6.95- 7.15	0.03022
4	8.276	8.18- 8.38	0.02545
Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	6.840	6.74- 6.94	0.04749
2	7.746	7.65- 7.85	0.03939
3	8.276	8.18- 8.38	0.04070
4	8.622	8.52- 8.72	0.05034

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 11/03/12

Aroclor-1254			Cal
Peak	RT	RT WIN	Factor
1	8.342	8.24- 8.44	0.03474
2	8.516	8.42- 8.62	0.04387
3	9.039	8.94- 9.14	0.03370
4	9.188	9.09- 9.29	0.07393
5	9.972	9.87-10.07	0.04454
Aroclor-1262			Cal
Peak	RT	RT WIN	Factor
1	10.302	10.20-10.40	0.06977
2	10.752	10.65-10.85	0.06199
3	11.025	10.92-11.12	0.13603
4	11.547	11.45-11.65	0.05505
5	12.347	12.25-12.45	0.05291
Aroclor-1268			Cal
Peak	RT	RT WIN	Factor
1	11.547	11.45-11.65	0.13895
2	11.613	11.51-11.71	0.13513
3	12.011	11.91-12.11	0.11296
4	12.834	12.73-12.93	0.33487

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Instrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1254

Time Analyzed :1703

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1254-1	8.23	8.12	8.32	246.8	250.0	-1.3
Aroclor-1254-2	8.60	8.50	8.70	217.0	250.0	-13.2
Aroclor-1254-3	8.73	8.63	8.83	244.8	250.0	-2.1
Aroclor-1254-4	9.08	8.98	9.18	243.5	250.0	-2.6
Aroclor-1254-5	9.44	9.34	9.54	239.7	250.0	-4.1

AVERAGE %D = 4.7

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Instrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1254

Time Analyzed :1703

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1254-1	8.34	8.24	8.44	261.5	250.0	4.6
Aroclor-1254-2	8.52	8.42	8.62	261.1	250.0	4.4
Aroclor-1254-3	9.04	8.94	9.14	274.0	250.0	9.6
Aroclor-1254-4	9.19	9.09	9.29	252.6	250.0	1.0
Aroclor-1254-5	9.97	9.87	10.07	259.6	250.0	3.8

AVERAGE %D = 4.7

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :1723

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.10	6.00	6.20	249.9	250.0	-0.0
Aroclor-1016-2	6.50	6.40	6.60	250.8	250.0	0.3
Aroclor-1016-3	6.65	6.55	6.75	248.5	250.0	-0.6
Aroclor-1016-4	6.76	6.66	6.86	256.6	250.0	2.6

AVERAGE %D = 0.9

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :1723

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.00	9.90	10.10	248.7	250.0	-0.5
Aroclor-1260-2	10.31	10.21	10.41	251.4	250.0	0.6
Aroclor-1260-3	10.69	10.59	10.79	254.9	250.0	2.0
Aroclor-1260-4	11.09	10.99	11.19	251.2	250.0	0.5
Aroclor-1260-5	11.28	11.18	11.38	251.5	250.0	0.6

AVERAGE %D = 0.8

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :1723

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.21	6.11	6.31	244.5	250.0	-2.2
Aroclor-1016-2	6.84	6.74	6.94	245.9	250.0	-1.6
Aroclor-1016-3	7.23	7.13	7.33	254.4	250.0	1.8
Aroclor-1016-4	7.33	7.24	7.44	249.4	250.0	-0.2

AVERAGE %D = 1.5

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :1723

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.30	10.20	10.40	269.8	250.0	7.9
Aroclor-1260-2	10.75	10.65	10.85	270.9	250.0	8.4
Aroclor-1260-3	11.03	10.93	11.13	271.2	250.0	8.5
Aroclor-1260-4	11.55	11.45	11.65	262.0	250.0	4.8

AVERAGE %D = 7.4

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1248

Time Analyzed :2047

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1248-1	6.50	6.40	6.60	240.7	250.0	-3.7
Aroclor-1248-2	7.47	7.37	7.57	238.2	250.0	-4.7
Aroclor-1248-3	7.90	7.80	8.00	237.1	250.0	-5.2
Aroclor-1248-4	8.14	8.04	8.24	238.4	250.0	-4.6

AVERAGE %D = 4.6

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1248

Time Analyzed :2047

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1248-1	6.84	6.74	6.94	237.8	250.0	-4.9
Aroclor-1248-2	7.75	7.65	7.85	261.4	250.0	4.6
Aroclor-1248-3	8.28	8.18	8.38	259.1	250.0	3.6
Aroclor-1248-4	8.62	8.52	8.72	258.7	250.0	3.5

AVERAGE %D = 4.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :2107

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016-1	6.10	6.00	6.20	228.0	250.0	-8.8
Aroclor-1016-2	6.50	6.40	6.60	237.0	250.0	-5.2
Aroclor-1016-3	6.65	6.55	6.75	233.6	250.0	-6.6
Aroclor-1016-4	6.76	6.66	6.86	244.0	250.0	-2.4

AVERAGE %D = 5.8

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :2107

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1260-1	10.00	9.90	10.10	255.7	250.0	2.3
Aroclor-1260-2	10.31	10.21	10.41	250.7	250.0	0.3
Aroclor-1260-3	10.69	10.59	10.79	254.1	250.0	1.6
Aroclor-1260-4	11.09	10.99	11.19	237.9	250.0	-4.8
Aroclor-1260-5	11.28	11.18	11.38	244.7	250.0	-2.1

AVERAGE %D = 2.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :2107

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.21	6.11	6.31	243.9	250.0	-2.4
Aroclor-1016-2	6.84	6.74	6.94	245.9	250.0	-1.6
Aroclor-1016-3	7.23	7.13	7.33	251.6	250.0	0.6
Aroclor-1016-4	7.33	7.24	7.44	246.5	250.0	-1.4

AVERAGE %D = 1.5

Date Analyzed :11/24/12

Lab Standard ID: AR1660

Time Analyzed :2107

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.30	10.20	10.40	266.6	250.0	6.6
Aroclor-1260-2	10.75	10.65	10.85	270.6	250.0	8.2
Aroclor-1260-3	11.03	10.93	11.13	274.3	250.0	9.7
Aroclor-1260-4	11.55	11.45	11.65	263.3	250.0	5.3

AVERAGE %D = 7.5

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1242

Time Analyzed :0030

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1242-1	6.10	6.00	6.20	205.1	250.0	-17.9
Aroclor-1242-2	6.50	6.40	6.60	214.3	250.0	-14.3
Aroclor-1242-3	6.65	6.55	6.75	208.5	250.0	-16.6
Aroclor-1242-4	7.90	7.80	8.00	212.5	250.0	-15.0

AVERAGE %D = 16.0

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1242

Time Analyzed :0030

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Aroclor-1242-1	6.21	6.11	6.31	249.1	250.0	-0.4
Aroclor-1242-2	6.84	6.74	6.94	253.1	250.0	1.2
Aroclor-1242-3	7.05	6.95	7.15	250.3	250.0	0.1
Aroclor-1242-4	8.28	8.18	8.38	255.8	250.0	2.3

AVERAGE %D = 1.0

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1660

Time Analyzed :0051

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.10	6.00	6.20	226.5	250.0	-9.4
Aroclor-1016-2	6.50	6.40	6.60	232.5	250.0	-7.0
Aroclor-1016-3	6.65	6.55	6.75	231.0	250.0	-7.6
Aroclor-1016-4	6.76	6.66	6.86	240.8	250.0	-3.7

AVERAGE %D = 6.9

Date Analyzed :11/25/12

Lab Standard ID: AR1660

Time Analyzed :0051

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.00	9.90	10.10	261.3	250.0	4.5
Aroclor-1260-2	10.31	10.21	10.41	257.0	250.0	2.8
Aroclor-1260-3	10.69	10.59	10.79	271.4	250.0	8.5
Aroclor-1260-4	11.09	10.99	11.19	246.0	250.0	-1.6
Aroclor-1260-5	11.28	11.18	11.38	259.0	250.0	3.6

AVERAGE %D = 4.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1660

Time Analyzed :0051

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1016-1	6.21	6.11	6.31	242.1	250.0	-3.1
Aroclor-1016-2	6.84	6.74	6.94	242.6	250.0	-3.0
Aroclor-1016-3	7.23	7.13	7.33	249.6	250.0	-0.1
Aroclor-1016-4	7.34	7.24	7.44	244.7	250.0	-2.1

AVERAGE %D = 2.1

Date Analyzed :11/25/12

Lab Standard ID: AR1660

Time Analyzed :0051

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1260-1	10.30	10.20	10.40	275.7	250.0	10.3
Aroclor-1260-2	10.75	10.65	10.85	281.7	250.0	12.7
Aroclor-1260-3	11.03	10.93	11.13	283.7	250.0	13.5
Aroclor-1260-4	11.55	11.45	11.65	273.4	250.0	9.3

AVERAGE %D = 11.4

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1254

Time Analyzed :0354

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
-----	-----	-----	-----	-----	-----	-----
Aroclor-1254-1	8.22	8.12	8.32	210.6	250.0	-15.8
Aroclor-1254-2	8.60	8.50	8.70	188.3	250.0	-24.7
Aroclor-1254-3	8.73	8.63	8.83	222.3	250.0	-11.1
Aroclor-1254-4	9.08	8.98	9.18	219.5	250.0	-12.2
Aroclor-1254-5	9.44	9.34	9.54	221.3	250.0	-11.5

AVERAGE %D = 15.1

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 11/02/12

Date Analyzed :11/25/12

Lab Standard ID: AR1254

Time Analyzed :0354

COMPOUND/PEAK NO.	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Aroclor-1254-1	8.34	8.24	8.44	252.2	250.0	0.9
Aroclor-1254-2	8.52	8.42	8.62	254.5	250.0	1.8
Aroclor-1254-3	9.04	8.94	9.14	275.3	250.0	10.1
Aroclor-1254-4	9.19	9.09	9.29	243.9	250.0	-2.4
Aroclor-1254-5	9.97	9.87	10.07	250.1	250.0	0.0

AVERAGE %D = 3.0

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB5

ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 11/02/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

					IS1		IS2	
					AREA	RT	AREA	RT
=====					=====	=====	=====	=====
ICAL MIDPT					31244918	2.274	64198300	13.214
UPPER LIMIT					62489836	2.374	128396600	13.314
LOWER LIMIT					15622459	2.174	32099150	13.114
=====					=====	=====	=====	=====
CLIENT	LAB	DATE	TIME	IS1		IS2		
SAMPLE NO.	SAMPLE ID	ANALYZED		AREA	RT	AREA	RT	
=====	=====	=====	=====	=====	=====	=====	=====	
01	ZZZZZ	ZZZZZ	11/02/12	2017	32121330	2.277	65627042	13.214
02		0.25PPMAR166	11/02/12	2037	31244918	2.274	64198300	13.214
03		0.02PPMAR166	11/02/12	2058	31736267	2.277	66012881	13.214
04		0.05PPMAR166	11/02/12	2118	31079093	2.275	64685135	13.214
05		1PPMAR1660	11/02/12	2138	32560778	2.275	67466235	13.214
06		0.1PPMAR1660	11/02/12	2158	31562437	2.274	66063497	13.214
07		0.5PPMAR1660	11/02/12	2218	32469455	2.273	67388285	13.214
08		AR1242	11/02/12	2238	32779971	2.273	67800793	13.214
09		AR1248	11/02/12	2259	33486089	2.279	68805737	13.214
10		AR1254	11/02/12	2319	32866846	2.276	67839772	13.214
11		AR2162	11/02/12	2340	32037907	2.280	66658077	13.215
12		AR3268	11/03/12	0000	33288564	2.280	69153536	13.215
13	ZZZZZ	ZZZZZ	11/03/12	0020	32275358	2.276	69016020	13.215
14	ZZZZZ	ZZZZZ	11/03/12	0041	34992364	2.279	71027100	13.215
15	ZZZZZ	ZZZZZ	11/03/12	0101	33719935	2.275	69100267	13.214
16	ZZZZZ	ZZZZZ	11/03/12	0121	34274216	2.277	70290566	13.215
17	ZZZZZ	ZZZZZ	11/03/12	0142	33531129	2.274	69260863	13.214
18	ZZZZZ	ZZZZZ	11/03/12	0202	33384825	2.277	69841459	13.214
19	ZZZZZ	ZZZZZ	11/24/12	1643	29390798	2.291	54477555	13.228
20		AR1254	11/24/12	1703	45463451	2.281	80484425	13.219
21		AR1660	11/24/12	1723	32837024	2.280	60613002	13.218
22	VR58MBS1	VR58MBS1	11/24/12	1744	28148612	2.279	56257900	13.217
23	VR58LCSS1	VR58LCSS1	11/24/12	1804	30967556	2.277	58108697	13.216
24	PSR	VR58SRM1	11/24/12	1824	31528912	2.278	58199791	13.216
25	SG-10-S-E-12	VR58A	11/24/12	1845	32305335	2.279	57343458	13.215
26	SG-11-S-E-12	VR58B	11/24/12	1905	31692925	2.279	57970825	13.216
27	SG-12-S-E-12	VR58C	11/24/12	1925	32355475	2.278	56395505	13.216
28	SG-13-S-E-12	VR58D	11/24/12	1946	32098055	2.279	57268908	13.216
29	SG-13-S-E-DU	VR58E	11/24/12	2006	32438437	2.279	57844569	13.217
30	SG-14-S-E-12	VR58F	11/24/12	2026	33468339	2.279	55373451	13.215
31		AR1248	11/24/12	2047	45534261	2.279	74975377	13.215
32		AR1660	11/24/12	2107	35866199	2.279	61427637	13.216

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC Client: ANCHOR QEA
ARI Job No.: VR58 Project: CITY OF KENMORE
GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD5
Init. Calib. Date: 11/02/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT	
=====				=====	=====	=====	=====	
ICAL MIDPT				31244918	2.274	64198300	13.214	
UPPER LIMIT				62489836	2.374	128396600	13.314	
LOWER LIMIT				15622459	2.174	32099150	13.114	
=====				=====	=====	=====	=====	
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT	
=====								
33	SG-15-S-E-12	VR58G	11/24/12	2127	35265301	2.278	62207942	13.215
34	SG-16-S-E-12	VR58H	11/24/12	2148	37175336	2.279	66877600	13.215
35	SG-17-S-E-12	VR58I	11/24/12	2208	35966133	2.279	60650954	13.216
36	SG-01-S-C-12	VR58J	11/24/12	2228	36292769	2.277	65416983	13.215
37	SG-01-S-C-12	VR58JMS	11/24/12	2249	36706902	2.278	67566631	13.217
38	SG-01-S-C-12	VR58JMDS	11/24/12	2309	37419688	2.278	69484798	13.216
39	SG-02-S-C-12	VR82A	11/24/12	2329	36443218	2.279	61884515	13.217
40	SG-03-S-C-12	VR82B	11/24/12	2350	35781846	2.279	60235830	13.217
41	SG-04-S-C-12	VR82C	11/25/12	0010	36676802	2.280	63321858	13.216
42		AR1242	11/25/12	0030	38319146	2.278	59353496	13.216
43		AR1660	11/25/12	0051	38570575	2.278	64670405	13.216
44	SG-05-S-C-12	VR82D	11/25/12	0111	36843937	2.278	63064682	13.217
45	SG-06-S-C-12	VR82E	11/25/12	0131	36106017	2.279	59234913	13.217
46	SG-07-S-C-12	VR82F	11/25/12	0152	36832755	2.279	61317779	13.217
47	SG-07-S-C-DU	VR82G	11/25/12	0212	36516007	2.280	59044653	13.217
48	SG-08-S-C-12	VR82H	11/25/12	0233	36262947	2.277	60139329	13.217
49	SG-09-S-C-12	VR82I	11/25/12	0253	35818713	2.279	60086970	13.217
50		AR1254	11/25/12	0354	62493583*	2.279	100245162	13.217
51	ZZZZZ	ZZZZZ	11/25/12	0414	39750643	2.279	66236820	13.217
52	ZZZZZ	ZZZZZ	11/25/12	0435	54920105	2.279	88742277	13.217
53	ZZZZZ	ZZZZZ	11/25/12	0455	47490025	2.279	76439200	13.217

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 11/02/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	14536489	2.761	15789428	14.115
UPPER LIMIT	29072978	2.861	31578856	14.215
LOWER LIMIT	7268244	2.661	7894714	14.015

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01	ZZZZZ	ZZZZZ	11/02/12	2017	14713535	2.764	16088294	14.115
02		0.25PPMAR166	11/02/12	2037	14536489	2.761	15789428	14.115
03		0.02PPMAR166	11/02/12	2058	14662512	2.763	16195930	14.116
04		0.05PPMAR166	11/02/12	2118	14425871	2.761	15804667	14.115
05		1PPMAR1660	11/02/12	2138	14668819	2.761	16259905	14.115
06		0.1PPMAR1660	11/02/12	2158	14552241	2.763	15974909	14.115
07		0.5PPMAR1660	11/02/12	2218	14811515	2.761	16169446	14.114
08		AR1242	11/02/12	2238	14876946	2.761	16149950	14.115
09		AR1248	11/02/12	2259	15137931	2.765	16358718	14.115
10		AR1254	11/02/12	2319	14737446	2.762	15955858	14.116
11		AR2162	11/02/12	2340	14169986	2.766	15683025	14.116
12		AR3268	11/03/12	0000	14704019	2.765	16219252	14.116
13	ZZZZZ	ZZZZZ	11/03/12	0020	14465214	2.762	15841317	14.116
14	ZZZZZ	ZZZZZ	11/03/12	0041	15000485	2.765	16204591	14.116
15	ZZZZZ	ZZZZZ	11/03/12	0101	14278309	2.762	15675954	14.116
16	ZZZZZ	ZZZZZ	11/03/12	0121	14593306	2.764	15921593	14.117
17	ZZZZZ	ZZZZZ	11/03/12	0142	14012549	2.762	15630049	14.116
18	ZZZZZ	ZZZZZ	11/03/12	0202	13930274	2.762	15765289	14.115
19	ZZZZZ	ZZZZZ	11/24/12	1643	12715201	2.752	12257616	14.115
20		AR1254	11/24/12	1703	18490011	2.763	18053345	14.115
21		AR1660	11/24/12	1723	12977204	2.764	13302157	14.115
22	VR58MBS1	VR58MBS1	11/24/12	1744	11838370	2.763	11948908	14.115
23	VR58LCSS1	VR58LCSS1	11/24/12	1804	12766259	2.761	12268470	14.114
24	PSR	VR58SRM1	11/24/12	1824	12656028	2.762	12912350	14.114
25	SG-10-S-E-12	VR58A	11/24/12	1845	12488984	2.763	12758907	14.115
26	SG-11-S-E-12	VR58B	11/24/12	1905	12197488	2.763	12249194	14.115
27	SG-12-S-E-12	VR58C	11/24/12	1925	12389319	2.762	12283962	14.116
28	SG-13-S-E-12	VR58D	11/24/12	1946	12659152	2.762	12089064	14.117
29	SG-13-S-E-DU	VR58E	11/24/12	2006	12514514	2.763	12209536	14.116
30	SG-14-S-E-12	VR58F	11/24/12	2026	12402171	2.762	12443760	14.114
31		AR1248	11/24/12	2047	16671907	2.762	16359032	14.115
32		AR1660	11/24/12	2107	12941087	2.763	13112388	14.115

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: VR58

Project: CITY OF KENMORE

GC Column: ZB35 ID: 0.53(mm)

Instrument ID: ECD5

Init. Calib. Date: 11/02/12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

				IS1 AREA	RT	IS2 AREA	RT	
=====				=====	=====	=====	=====	
ICAL MIDPT				14536489	2.761	15789428	14.115	
UPPER LIMIT				29072978	2.861	31578856	14.215	
LOWER LIMIT				7268244	2.661	7894714	14.015	
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT	
=====	=====	=====	=====	=====	=====	=====	=====	
33	SG-15-S-E-12	VR58G	11/24/12	2127	13409482	2.761	12978594	14.114
34	SG-16-S-E-12	VR58H	11/24/12	2148	14213105	2.763	13779894	14.115
35	SG-17-S-E-12	VR58I	11/24/12	2208	13194988	2.763	12764772	14.116
36	SG-01-S-C-12	VR58J	11/24/12	2228	13227066	2.762	13546685	14.115
37	SG-01-S-C-12	VR58JMS	11/24/12	2249	13803988	2.762	13832386	14.115
38	SG-01-S-C-12	VR58JMSD	11/24/12	2309	13916028	2.762	14152051	14.117
39	SG-02-S-C-12	VR82A	11/24/12	2329	12824160	2.764	13088622	14.116
40	SG-03-S-C-12	VR82B	11/24/12	2350	12586216	2.762	12867378	14.116
41	SG-04-S-C-12	VR82C	11/25/12	0010	13303582	2.763	13118645	14.115
42		AR1242	11/25/12	0030	12454774	2.761	11955012	14.115
43		AR1660	11/25/12	0051	13458196	2.762	13291576	14.115
44	SG-05-S-C-12	VR82D	11/25/12	0111	13217344	2.763	13442013	14.115
45	SG-06-S-C-12	VR82E	11/25/12	0131	12565471	2.762	12461711	14.116
46	SG-07-S-C-12	VR82F	11/25/12	0152	12807462	2.762	12587430	14.118
47	SG-07-S-C-DU	VR82G	11/25/12	0212	12681890	2.762	12133512	14.116
48	SG-08-S-C-12	VR82H	11/25/12	0233	12842035	2.761	12447395	14.116
49	SG-09-S-C-12	VR82I	11/25/12	0253	12470537	2.763	12703058	14.116
50		AR1254	11/25/12	0354	21438781	2.762	20870192	14.116
51		AR1660	11/25/12	0414	13556875	2.763	13546910	14.117
52	ZZZZZ	ZZZZZ	11/25/12	0435	17798852	2.762	17792115	14.116
53	ZZZZZ	ZZZZZ	11/25/12	0455	15498883	2.763	15269993	14.116

IS1 = 1-Bromo-2-Nitrobenzene

RT Window = RT +/- 0.1 min

IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

**Metals Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
SG-10-S-E-121107	VR58A	12-22329	
SG-10-S-E-121107D	VR58ADUP	12-22329	
SG-10-S-E-121107S	VR58ASPK	12-22329	
SG-11-S-E-121107	VR58B	12-22330	
PBS	VR58MB1	12-22330	
LCSS	VR58MB1SPK	12-22330	
SG-12-S-E-121107	VR58C	12-22331	
SG-13-S-E-121107	VR58D	12-22332	
SG-13-S-E-dup-1211	VR58E	12-22333	
SG-14-S-E-121107	VR58F	12-22334	
SG-15-S-E-121107	VR58G	12-22335	
SG-16-S-E-121107	VR58H	12-22336	
SG-17-S-E-121107	VR58I	12-22337	
SG-01-S-C-121107	VR58J	12-22338	
SG-02-S-C-121108	VR82A	12-22479	
SG-03-S-C-121108	VR82B	12-22480	
SG-04-S-C-121108	VR82C	12-22481	
SG-05-S-C-121108	VR82D	12-22482	
SG-06-S-C-121108	VR82E	12-22483	
SG-07-S-C-121108	VR82F	12-22484	
SG-07-S-C-dup-1211	VR82G	12-22485	

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: Jay Kuhn Name: Jay Kuhn

Date: 12/4/12 Title: Inorganics Director

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
SG-08-S-C-121108	VR82H	12-22486	
SG-09-S-C-121108	VR82I	12-22487	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn
Date: _____ Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-02-S-C-121108

SAMPLE

Lab Sample ID: VR82A

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22479

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 23.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	1.3	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	1.9	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.44	0.8	1.3	
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	1.1	2	56	
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.20	0.8	92.4	
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.52	8	62	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0042	0.08	0.18	
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	1.2	4	48	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.40	2	2	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.12	1	1	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.48	4	231	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-03-S-C-121108
SAMPLE

Lab Sample ID: VR82B

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22480

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 22.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	1.4	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	2.0	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.47	0.9	1.2	
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	1.2	2	55	
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.21	0.9	88.1	
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.56	9	42	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0053	0.1	0.1	
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	1.3	4	45	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.41	2	2	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.13	1	1	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.51	4	267	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-04-S-C-121108
SAMPLE

Lab Sample ID: VR82C

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22481

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 80.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	0.38	6	6	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	0.55	6	6	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.13	0.2	0.3	
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	0.32	0.6	35.0	
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.060	0.2	14.6	
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.16	2	5	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0012	0.02	0.02	U
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	0.36	1	30	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.11	0.6	0.6	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.036	0.4	0.4	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.14	1	49	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-05-S-C-121108
SAMPLE

Lab Sample ID: VR82D

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22482

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 31.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	0.93	10	10	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	1.3	10	10	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.32	0.6	0.7	
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	0.78	1	43	
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.15	0.6	35.6	
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.38	6	28	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0036	0.07	0.08	
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	0.87	3	39	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.29	1	1	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.087	0.9	0.9	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.35	3	143	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL


RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-06-S-C-121108
SAMPLE

Lab Sample ID: VR82E 
LIMS ID: 12-22483
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/12

QC Report No: VR82-Anchor QEA, LLC.
Project: City of Kenmore Sediments
120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Percent Total Solids: 28.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	1.1	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	1.5	20	20	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.37	0.7	0.8	
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	0.90	2	57	
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.17	0.7	43.6	
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.43	7	31	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0034	0.07	0.10	
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	1.0	3	46	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.34	2	2	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.10	1	1	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.40	3	164	

Reported in mg/kg-dry (ppm).
U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: **SG-07-S-C-121108**
SAMPLE

Lab Sample ID: VR82F

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22484

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 33.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/29/12	7440-36-0	Antimony	0.92	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-38-2	Arsenic	1.3	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-43-9	Cadmium	0.32	0.6	0.6	
3050B	11/16/12	6010C	11/29/12	7440-47-3	Chromium	0.78	1	41	
3050B	11/16/12	6010C	11/29/12	7440-50-8	Copper	0.14	0.6	30.0	
3050B	11/16/12	6010C	11/29/12	7439-92-1	Lead	0.37	6	21	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0036	0.07	0.11	
3050B	11/16/12	6010C	11/29/12	7440-02-0	Nickel	0.86	3	41	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.27	1	1	U
3050B	11/16/12	6010C	11/29/12	7440-22-4	Silver	0.086	0.9	0.9	U
3050B	11/16/12	6010C	11/29/12	7440-66-6	Zinc	0.35	3	126	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-07-S-C-dup-121108
SAMPLE

Lab Sample ID: VR82G


QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22485

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: 

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 34.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/29/12	7440-36-0	Antimony	0.90	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-38-2	Arsenic	1.3	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-43-9	Cadmium	0.31	0.6	0.6	
3050B	11/16/12	6010C	11/29/12	7440-47-3	Chromium	0.76	1	44	
3050B	11/16/12	6010C	11/29/12	7440-50-8	Copper	0.14	0.6	28.7	
3050B	11/16/12	6010C	11/29/12	7439-92-1	Lead	0.37	6	21	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0032	0.06	0.08	
3050B	11/16/12	6010C	11/29/12	7440-02-0	Nickel	0.85	3	42	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.28	1	1	U
3050B	11/16/12	6010C	11/29/12	7440-22-4	Silver	0.085	0.8	0.8	U
3050B	11/16/12	6010C	11/29/12	7440-66-6	Zinc	0.34	3	123	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-08-S-C-121108
SAMPLE

Lab Sample ID: VR82H


QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22486

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: 

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 39.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/29/12	7440-36-0	Antimony	0.77	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-38-2	Arsenic	1.1	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-43-9	Cadmium	0.26	0.5	0.6	
3050B	11/16/12	6010C	11/29/12	7440-47-3	Chromium	0.65	1	44	
3050B	11/16/12	6010C	11/29/12	7440-50-8	Copper	0.12	0.5	28.0	
3050B	11/16/12	6010C	11/29/12	7439-92-1	Lead	0.31	5	21	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0030	0.06	0.07	
3050B	11/16/12	6010C	11/29/12	7440-02-0	Nickel	0.72	2	40	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.24	1	1	U
3050B	11/16/12	6010C	11/29/12	7440-22-4	Silver	0.072	0.7	0.7	U
3050B	11/16/12	6010C	11/29/12	7440-66-6	Zinc	0.29	2	113	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SG-09-S-C-121108
SAMPLE

Lab Sample ID: VR82I

QC Report No: VR82-Anchor QEA, LLC.

LIMS ID: 12-22487

Project: City of Kenmore Sediments

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: 11/08/12

Reported: 12/12/12

Date Received: 11/08/12

Percent Total Solids: 33.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/29/12	7440-36-0	Antimony	0.94	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-38-2	Arsenic	1.4	10	10	U
3050B	11/16/12	6010C	11/29/12	7440-43-9	Cadmium	0.32	0.6	0.6	
3050B	11/16/12	6010C	11/29/12	7440-47-3	Chromium	0.79	1	48	
3050B	11/16/12	6010C	11/29/12	7440-50-8	Copper	0.15	0.6	31.1	
3050B	11/16/12	6010C	11/29/12	7439-92-1	Lead	0.38	6	24	
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0036	0.07	0.08	
3050B	11/16/12	6010C	11/29/12	7440-02-0	Nickel	0.88	3	43	
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.29	1	1	U
3050B	11/16/12	6010C	11/29/12	7440-22-4	Silver	0.088	0.9	0.9	U
3050B	11/16/12	6010C	11/29/12	7440-66-6	Zinc	0.35	3	130	

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: VR58LCS

QC Report No: VR58-Anchor QEA, LLC.

LIMS ID: 12-22330

Project: City of Kenmore Sediment

Matrix: Sediment

120891-01.01

Data Release Authorized: *00*

Date Sampled: NA

Reported: 12/12/12

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010C	214	200	107%	
Arsenic	6010C	205	200	102%	
Cadmium	6010C	52.0	50.0	104%	
Chromium	6010C	51.2	50.0	102%	
Copper	6010C	49.3	50.0	98.6%	
Lead	6010C	199	200	99.5%	
Mercury	7471A	0.45	0.50	90.0%	
Nickel	6010C	49	50	98.0%	
Selenium	6020A	89.7	80.0	112%	
Silver	6010C	53.2	50.0	106%	
Zinc	6010C	50	50	100%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: VR58MB

QC Report No: VR58-Anchor QEA, LLC.

LIMS ID: 12-22330

Project: City of Kenmore Sediment

Matrix: Sediment

120891-01.01

Data Release Authorized: *W*

Date Sampled: NA

Reported: 12/12/12

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	MDL	RL	Result	Q
3050B	11/16/12	6010C	11/27/12	7440-36-0	Antimony	0.32	5	5	U
3050B	11/16/12	6010C	11/27/12	7440-38-2	Arsenic	0.46	5	5	U
3050B	11/16/12	6010C	11/27/12	7440-43-9	Cadmium	0.11	0.2	0.2	U
3050B	11/16/12	6010C	11/27/12	7440-47-3	Chromium	0.27	0.5	0.5	U
3050B	11/16/12	6010C	11/27/12	7440-50-8	Copper	0.050	0.2	0.2	U
3050B	11/16/12	6010C	11/27/12	7439-92-1	Lead	0.13	2	2	U
CLP	11/16/12	7471A	11/17/12	7439-97-6	Mercury	0.0013	0.02	0.02	U
3050B	11/16/12	6010C	11/27/12	7440-02-0	Nickel	0.30	1	1	U
3050B	11/16/12	6020A	11/27/12	7782-49-2	Selenium	0.099	0.5	0.5	U
3050B	11/16/12	6010C	11/27/12	7440-22-4	Silver	0.030	0.3	0.3	U
3050B	11/16/12	6010C	11/27/12	7440-66-6	Zinc	0.12	1	1	U

Reported in mg/kg (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Antimony	SB	ICP	IP112771	2000.0	2181.15	109.1	2000.0	2158.55	107.9	2157.47	107.9	2184.48	109.2	2249.12	112.5	2239.19	112.0
Arsenic	AS	ICP	IP112771	2000.0	2050.10	102.5	2000.0	2038.51	101.9	2026.76	101.3	2070.16	103.5	2124.72	106.2	2119.84	106.0
Cadmium	CD	ICP	IP112771	1000.0	1022.44	102.2	1000.0	1019.00	101.9	1007.28	100.7	1027.29	102.7	1054.61	105.5	1054.74	105.5
Chromium	CR	ICP	IP112771	1000.0	1000.15	100.0	1000.0	1033.81	103.4	1001.72	100.2	1017.63	101.8	1055.89	105.6	1046.95	104.7
Copper	CU	ICP	IP112771	1000.0	1030.11	103.0	1000.0	1014.85	101.5	1007.78	100.8	1017.90	101.8	1048.58	104.9	1044.31	104.4
Lead	PB	ICP	IP112771	2000.0	1977.76	98.9	2000.0	1983.52	99.2	1956.56	97.8	2007.28	100.4	2055.29	102.8	2052.66	102.6
Mercury	HG	CVA	HG111701	8.0	7.26	90.8	4.0	3.69	92.3	3.65	91.3	1.76	44.0	3.63	90.8	3.59	89.8
Nickel	NI	ICP	IP112771	1000.0	969.45	96.9	1000.0	1004.91	100.5	968.61	96.9	985.13	98.5	1022.56	102.3	1010.29	101.0
Selenium	SE	PMS	MS112711	80.0	78.06	97.6	50.0	50.51	101.0	49.04	98.1	50.09	100.2	51.02	102.0	52.39	104.8
Silver	AG	ICP	IP112771	1000.0	1049.26	104.9	1000.0	1036.76	103.7	1026.29	102.6	1036.26	103.6	1063.28	106.3	1059.96	106.0
Zinc	ZN	ICP	IP112771	1000.0	1002.88	100.3	1000.0	1044.66	104.5	1004.19	100.4	1036.55	103.7	1067.11	106.7	1062.32	106.2

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Antimony	SB	ICP	IP112771	2000.0	2214.49	110.7	2131.43	106.6	2070.03	103.5	2130.57	106.5	2119.95	106.0	2118.12	105.9
Arsenic	AS	ICP	IP112771	2000.0	2117.60	105.9	2017.80	100.9	1997.61	99.9	2076.31	103.8	2067.41	103.4	2063.17	103.2
Cadmium	CD	ICP	IP112771	1000.0	1050.23	105.0	1002.20	100.2	1008.81	100.9	1023.76	102.4	1024.57	102.5	1015.44	101.5
Chromium	CR	ICP	IP112771	1000.0	1044.19	104.4	447.32	44.7	4094.48	409.4	1015.74	101.6	1006.32	100.6	1011.00	101.1
Copper	CU	ICP	IP112771	1000.0	1016.80	101.7	989.76	99.0	990.96	99.1	1007.91	100.8	1005.85	100.6	992.31	99.2
Lead	PB	ICP	IP112771	2000.0	2107.93	105.4	1959.18	98.0	1965.94	98.3	1993.07	99.7	2001.40	100.1	1982.95	99.1
Mercury	HG	CVA	HG111701	4.0	3.60	90.0	3.64	91.0	3.61	90.3	3.56	89.0				
Nickel	NI	ICP	IP112771	1000.0	1008.90	100.9	2143.46	214.3	5050.04	505.0	975.29	97.5	970.88	97.1	976.43	97.6
Selenium	SE	PMS	MS112711	50.0	54.89	109.8	54.35	108.7	54.86	109.7	53.95	107.9	53.72	107.4	54.49	109.0
Silver	AG	ICP	IP112771	1000.0	1020.82	102.1	1004.22	100.4	1003.43	100.3	1029.10	102.9	1028.59	102.9	1021.08	102.1
Zinc	ZN	ICP	IP112771	1000.0	1061.03	106.1	3419.81	342.0	6433.90	643.4	1031.63	103.2	1026.54	102.7	1029.09	102.9

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV12	CCV13	CCV14	CCV15	CCV16	CCV17
				%R	%R	%R	%R	%R	%R	%R
Antimony	SB	ICP	IP112771	2000.0	2096.98	104.8	2095.51	104.8	2117.54	105.9
Arsenic	AS	ICP	IP112771	2000.0	2030.01	101.5	2028.93	101.4	2055.87	102.8
Cadmium	CD	ICP	IP112771	1000.0	1014.08	101.4	1015.93	101.6	1023.64	102.4
Chromium	CR	ICP	IP112771	1000.0	1001.06	100.1	1013.93	101.4	1011.85	101.2
Copper	CU	ICP	IP112771	1000.0	1001.30	100.1	999.40	99.9	1007.92	100.8
Lead	PB	ICP	IP112771	2000.0	1971.34	98.6	1978.43	98.9	1989.58	99.5
Mercury	HG	CVA	HG111701	4.0						
Nickel	NI	ICP	IP112771	1000.0	964.18	96.4	977.40	97.7	977.93	97.8
Selenium	SE	PMS	MS112711	50.0	54.52	109.0				
Silver	AG	ICP	IP112771	1000.0	1030.59	103.1	1027.89	102.8	1036.08	103.6
Zinc	ZN	ICP	IP112771	1000.0	1006.12	100.6	1028.89	102.9	1024.11	102.4

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Antimony	SB	ICP	IP112871	2000.0	2138.21	106.9	2000.0	2137.44	106.9	2142.11	107.1	2163.84	108.2	2175.00	108.8	2177.81	108.9
Arsenic	AS	ICP	IP112871	2000.0	2016.39	100.8	2000.0	2016.50	100.8	2022.15	101.1	2050.72	102.5	2055.30	102.8	2067.86	103.4
Cadmium	CD	ICP	IP112871	1000.0	1015.77	101.6	1000.0	1021.32	102.1	1018.84	101.9	1027.95	102.8	1034.20	103.4	1034.27	103.4
Chromium	CR	ICP	IP112871	1000.0	1005.83	100.6	1000.0	1015.42	101.5	1009.15	100.9	1024.92	102.5	1032.94	103.3	1028.43	102.8
Copper	CU	ICP	IP112871	1000.0	1019.94	102.0	1000.0	1021.93	102.2	1029.27	102.9	1025.01	102.5	1039.22	103.9	1030.55	103.1
Lead	PB	ICP	IP112871	2000.0	2068.56	103.4	2000.0	2071.02	103.6	2073.99	103.7	2104.00	105.2	2105.98	105.3	2119.85	106.0
Nickel	NI	ICP	IP112871	1000.0	1012.61	101.3	1000.0	1025.59	102.6	1016.46	101.6	1030.90	103.1	1030.10	103.0	1039.37	103.9
Silver	AG	ICP	IP112871	1000.0	1033.70	103.4	1000.0	1034.67	103.5	1041.82	104.2	1039.63	104.0	1048.90	104.9	1044.82	104.5
Zinc	ZN	ICP	IP112871	1000.0	1048.52	104.9	1000.0	1065.21	106.5	1048.34	104.8	1073.38	107.3	1064.05	106.4	1080.97	108.1

Control Limits: Mercury 80-120; Other Metals 90-110



Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	CCV7	CCV8	CCV9	CCV10	CCV11
					%R	%R	%R	%R	%R	%R
Antimony	SB	ICP	IP112871	2000.0	2175.81	108.8	2122.98	106.1	2156.66	107.8
Arsenic	AS	ICP	IP112871	2000.0	2060.02	103.0	2014.06	100.7	2047.33	102.4
Cadmium	CD	ICP	IP112871	1000.0	1030.72	103.1	1004.41	100.4	1024.54	102.5
Chromium	CR	ICP	IP112871	1000.0	1021.05	102.1	996.69	99.7	1013.66	101.4
Copper	CU	ICP	IP112871	1000.0	1030.07	103.0	1004.08	100.4	1020.56	102.1
Lead	PB	ICP	IP112871	2000.0	2117.12	105.9	2064.89	103.2	2097.91	104.9
Nickel	NI	ICP	IP112871	1000.0	1027.66	102.8	1000.33	100.0	1013.68	101.4
Silver	AG	ICP	IP112871	1000.0	1043.88	104.4	1017.17	101.7	1030.30	103.0
Zinc	ZN	ICP	IP112871	1000.0	1072.25	107.2	1043.31	104.3	1066.29	106.6

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Antimony	SB	ICP	IP112971	2000.0	2114.39	105.7	2000.0	2097.27	104.9	2126.51	106.3						
Arsenic	AS	ICP	IP112971	2000.0	2021.19	101.1	2000.0	2011.69	100.6	2044.37	102.2						
Cadmium	CD	ICP	IP112971	1000.0	1021.55	102.2	1000.0	1010.38	101.0	1025.78	102.6						
Chromium	CR	ICP	IP112971	1000.0	1010.46	101.0	1000.0	1009.73	101.0	1014.04	101.4						
Copper	CU	ICP	IP112971	1000.0	1027.30	102.7	1000.0	1012.23	101.2	1029.21	102.9						
Lead	PB	ICP	IP112971	2000.0	2075.69	103.8	2000.0	2067.84	103.4	2092.60	104.6						
Nickel	NI	ICP	IP112971	1000.0	1011.55	101.2	1000.0	1016.37	101.6	1015.83	101.6						
Silver	AG	ICP	IP112971	1000.0	1041.43	104.1	1000.0	1027.93	102.8	1046.10	104.6						
Zinc	ZN	ICP	IP112971	1000.0	1044.93	104.5	1000.0	1048.35	104.8	1051.14	105.1						

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Antimony	SB	ICP	IP112771	50.0		52.60	105.2	49.21	98.4	50.74	101.5						
Arsenic	AS	ICP	IP112771	50.0		49.42	98.8	50.39	100.8	48.77	97.5						
Cadmium	CD	ICP	IP112771	2.0		1.92	96.0	1.83	91.5	1.85	92.5						
Chromium	CR	ICP	IP112771	5.0		5.26	105.2	5.65	113.0	5.94	118.8						
Copper	CU	ICP	IP112771	2.0		1.63	81.5	-1.63	-81.5	-1.52	-76.0						
Lead	PB	ICP	IP112771	20.0		20.65	103.3	20.71	103.6	20.74	103.7						
Mercury	HG	CVA	HG111701	0.1		0.10	100.0										
Nickel	NI	ICP	IP112771	10.0		11.13	111.3	10.26	102.6	10.90	109.0						
Selenium	SE	PMS	MS112711	0.5		0.51	102.0										
Silver	AG	ICP	IP112771	3.0		2.95	98.3	2.97	99.0	2.97	99.0						
Zinc	ZN	ICP	IP112771	10.0		9.82	98.2	9.73	97.3	9.18	91.8						
Antimony	SB	ICP	IP112871	50.0		53.84	107.7	52.11	104.2	54.28	108.6	51.72	103.4				
Arsenic	AS	ICP	IP112871	50.0		47.88	95.8	49.74	99.5	48.81	97.6	49.76	99.5				
Cadmium	CD	ICP	IP112871	2.0		2.22	111.0	2.21	110.5	2.11	105.5	2.00	100.0				
Chromium	CR	ICP	IP112871	5.0		4.65	93.0	4.69	93.8	5.23	104.6	5.27	105.4				
Copper	CU	ICP	IP112871	2.0		2.03	101.5	2.21	110.5	2.17	108.5	1.86	93.0				
Lead	PB	ICP	IP112871	20.0		20.90	104.5	20.26	101.3	20.81	104.1	19.99	100.0				
Nickel	NI	ICP	IP112871	10.0		9.52	95.2	8.97	89.7	9.23	92.3	9.58	95.8				
Silver	AG	ICP	IP112871	3.0		3.06	102.0	2.91	97.0	3.25	108.3	3.05	101.7				
Zinc	ZN	ICP	IP112871	10.0		9.82	98.2	9.69	96.9	10.02	100.2	9.86	98.6				

Control Limits: no control limits have been established by the EPA at this time.

CRDL Standard

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Antimony	SB	ICP	IP112971	50.0		51.51	103.0										
Arsenic	AS	ICP	IP112971	50.0		48.83	97.7										
Cadmium	CD	ICP	IP112971	2.0		2.19	109.5										
Chromium	CR	ICP	IP112971	5.0		5.51	110.2										
Copper	CU	ICP	IP112971	2.0		2.11	105.5										
Lead	PB	ICP	IP112971	20.0		19.99	100.0										
Nickel	NI	ICP	IP112971	10.0		9.76	97.6										
Silver	AG	ICP	IP112971	3.0		3.15	105.0										
Zinc	ZN	ICP	IP112971	10.0		10.49	104.9										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Antimony	SB	ICP	IP112771	60.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Arsenic	AS	ICP	IP112771	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Cadmium	CD	ICP	IP112771	5.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chromium	CR	ICP	IP112771	10.0	5.0	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Copper	CU	ICP	IP112771	25.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Lead	PB	ICP	IP112771	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Mercury	HG	CVA	HG111701	0.2	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Nickel	NI	ICP	IP112771	40.0	10.0	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Selenium	SE	PMS	MS112711	5.0	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver	AG	ICP	IP112771	10.0	3.0	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
Zinc	ZN	ICP	IP112771	20.0	10.0	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Antimony	SB	ICP	IP112771	60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	U
Arsenic	AS	ICP	IP112771	10.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	U
Cadmium	CD	ICP	IP112771	5.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	U
Chromium	CR	ICP	IP112771	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	U
Copper	CU	ICP	IP112771	25.0	2.0	-3.5	-3.6	-3.3	-3.4	-3.3	-3.4	B
Lead	PB	ICP	IP112771	3.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	U
Mercury	HG	CVA	HG111701	0.2	0.1	0.1	0.1	0.1				U
Nickel	NI	ICP	IP112771	40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	U
Selenium	SE	PMS	MS112711	5.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	U
Silver	AG	ICP	IP112771	10.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	U
Zinc	ZN	ICP	IP112771	20.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	U

Calibration Blanks



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB12	CCB13	CCB14	CCB15	CCB16	CCB17	C
Antimony	SB	ICP	IP112771	60.0	50.0							
Arsenic	AS	ICP	IP112771	10.0	50.0							
Cadmium	CD	ICP	IP112771	5.0	2.0							
Chromium	CR	ICP	IP112771	10.0	5.0							
Copper	CU	ICP	IP112771	25.0	2.0							
Lead	PB	ICP	IP112771	3.0	20.0							
Mercury	HG	CVA	HG111701	0.2	0.1							
Nickel	NI	ICP	IP112771	40.0	10.0							
Selenium	SE	PMS	MS112711	5.0	0.5	0.5	U					
Silver	AG	ICP	IP112771	10.0	3.0							
Zinc	ZN	ICP	IP112771	20.0	10.0							

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5
Antimony	SB ICP	IP112871	60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Arsenic	AS ICP	IP112871	10.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Cadmium	CD ICP	IP112871	5.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Chromium	CR ICP	IP112871	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Copper	CU ICP	IP112871	25.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lead	PB ICP	IP112871	3.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Nickel	NI ICP	IP112871	40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Silver	AG ICP	IP112871	10.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Zinc	ZN ICP	IP112871	20.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Antimony	SB	ICP	IP112871	60.0	50.0	50.0	50.0	50.0	U	U	U	U
Arsenic	AS	ICP	IP112871	10.0	50.0	50.0	50.0	50.0	U	U	U	U
Cadmium	CD	ICP	IP112871	5.0	2.0	2.0	2.0	2.0	U	U	U	U
Chromium	CR	ICP	IP112871	10.0	5.0	5.0	5.0	5.0	U	U	U	U
Copper	CU	ICP	IP112871	25.0	2.0	2.0	2.0	2.0	U	U	U	U
Lead	PB	ICP	IP112871	3.0	20.0	20.0	20.0	20.0	U	U	U	U
Nickel	NI	ICP	IP112871	40.0	10.0	10.0	10.0	10.0	U	U	U	U
Silver	AG	ICP	IP112871	10.0	3.0	3.0	3.0	3.0	U	U	U	U
Zinc	ZN	ICP	IP112871	20.0	10.0	10.0	10.0	10.0	U	U	U	U

VR02: 00212

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58



UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	CCB1	CCB2	CCB3	CCB4	CCB5
Antimony	SB ICP	IP112971	60.0	50.0	50.0	50.0	50.0	U	U	U
Arsenic	AS ICP	IP112971	10.0	50.0	50.0	50.0	50.0	U	U	U
Cadmium	CD ICP	IP112971	5.0	2.0	2.0	2.0	2.0	U	U	U
Chromium	CR ICP	IP112971	10.0	5.0	5.0	5.0	5.0	U	U	U
Copper	CU ICP	IP112971	25.0	2.0	2.0	2.0	2.0	U	U	U
Lead	PB ICP	IP112971	3.0	20.0	20.0	20.0	20.0	U	U	U
Nickel	NI ICP	IP112971	40.0	10.0	10.0	10.0	10.0	U	U	U
Silver	AG ICP	IP112971	10.0	3.0	3.0	3.0	3.0	U	U	U
Zinc	ZN ICP	IP112971	20.0	10.0	10.0	10.0	10.0	U	U	U

ICP Interference Check Sample

CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58



ICS SOURCE: I.V.

RUNID: IP112771

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSAI	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	208789.5	201792.0	100.9	195582.1	193989.2	97.0	196310.4	194599.3	97.3
Antimony	1000	1000	13.1	1029.3	102.9	10.2	1001.8	100.2	7.4	1003.5	100.4
Arsenic	1000	1000	15.1	1013.6	101.4	13.9	1022.4	102.2	20.2	1024.2	102.4
Barium	1000	1000	-3.9	1004.1	100.4	-3.4	982.1	98.2	-3.6	981.9	98.2
Beryllium	1000	1000	0.1	971.9	97.2	0.0	985.1	98.5	0.0	981.4	98.1
Boron			-4.7	-2.9		-5.1	-3.3		-2.6	-4.1	
Cadmium	1000	1000	0.2	1000.0	100.0	-0.3	1000.9	100.1	-0.3	1001.2	100.1
Calcium	100000	100000	105151.8	103470.9	103.5	98518.0	98407.1	98.4	98161.0	98765.2	98.8
Chromium	1000	1000	-0.7	1008.7	100.9	0.3	1010.5	101.1	-0.1	1006.4	100.6
Cobalt	1000	1000	-0.9	968.2	96.8	-0.5	940.3	94.0	-0.8	968.7	96.9
Copper	1000	1000	-0.2	1001.7	100.2	-3.9	979.7	98.0	-3.7	975.2	97.5
Iron	200000	200000	206607.2	202956.4	101.5	195551.8	195135.7	97.6	194485.6	194792.0	97.4
Lead	1000	1000	-0.7	966.0	96.6	-4.1	963.8	96.4	-2.8	971.1	97.1
Magnesium	100000	100000	109030.3	102361.5	102.4	101820.0	97376.2	97.4	101628.7	97715.1	97.7
Manganese	1000	1000	1.5	959.6	96.0	1.2	972.2	97.2	1.2	969.6	97.0
Molybdenum			3.2	2.8		1.8	1.6		2.3	2.2	
Nickel	1000	1000	0.3	952.8	95.3	1.2	942.0	94.2	0.5	940.6	94.1
Potassium			19.1	-48.0		-12.9	-66.9		-8.1	-43.7	
Selenium	1000	1000	4.6	990.3	99.0	7.7	976.7	97.7	2.4	982.3	98.2
Silicon			-0.2	-1.8		-1.4	-4.8		-4.3	-2.3	
Silver	1000	1000	-1.2	1009.0	100.9	-1.2	996.7	99.7	-1.3	996.1	99.6
Sodium			12.0	23.1		13.6	26.3		15.5	26.5	
Strontium			4.1	3.9		3.9	3.9		4.0	3.9	
Thallium	1000	1000	3.3	937.3	93.7	5.9	917.2	91.7	4.3	924.1	92.4
Tin			-8.6	-8.0		-7.6	-8.3		-6.6	-6.6	
Titanium			1.1	0.7		0.4	0.7		1.2	1.1	
Vanadium	1000	1000	3.8	961.6	96.2	4.9	934.4	93.4	4.4	934.9	93.5
Zinc	1000	1000	3.0	954.0	95.4	2.7	958.0	95.8	1.8	955.2	95.5

ICP Interference Check Sample

CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58



ICS SOURCE: I.V.
RUNID: MS112711
INSTRUMENT ID: NEXION 300D

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Arsenic		20	0.1	19.9	99.5						
Cadmium		20	0.1	20.0	100.0						
Chromium		20	0.5	20.4	102.0						
Cobalt		20	0.0	19.6	98.0						
Copper		20	0.9	20.8	104.0						
Manganese		20	0.1	20.0	100.0						
Molybdenum	400	400	425.6	444.6	111.2						
Nickel		20	0.3	20.6	103.0						
Selenium			-0.2	-0.2							
Silver		20	0.0	21.1	105.5						
Zinc		20	0.9	20.1	100.5						

VR82 : 00215

ICP Interference Check Sample



CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: City of Kenmore Sedi

RUNID: IP112871

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	200611.9	199598.5	99.8	202877.0	201105.3	100.6	204309.7	204056.0	102.0
Antimony	1000	1000	12.3	1030.6	103.1	11.1	1044.6	104.5	12.9	1059.8	106.0
Arsenic	1000	1000	11.6	1009.9	101.0	13.3	1025.3	102.5	12.1	1036.8	103.7
Barium	1000	1000	-2.6	1011.0	101.1	-3.9	1020.4	102.0	-3.8	1030.8	103.1
Beryllium	1000	1000	0.1	1000.3	100.0	0.1	1009.3	100.9	0.1	1029.1	102.9
Boron			-5.0	-3.7		-5.8	-3.8		-5.1	-4.9	
Cadmium	1000	1000	0.0	1009.5	101.0	0.0	1020.5	102.1	-0.2	1027.6	102.8
Calcium	100000	100000	100626.5	100815.7	100.8	101973.8	101811.2	101.8	102827.9	103446.8	103.4
Chromium	1000	1000	-1.6	1009.9	101.0	-2.2	1017.2	101.7	-1.4	1034.5	103.5
Cobalt	1000	1000	-1.1	939.3	93.9	-0.9	951.5	95.2	-1.0	960.5	96.1
Copper	1000	1000	0.0	1030.0	103.0	0.1	1044.8	104.5	0.1	1050.6	105.1
Iron	200000	200000	198126.1	197483.0	98.7	199699.4	199139.0	99.6	202596.4	203343.7	101.7
Lead	1000	1000	-4.8	988.4	98.8	-4.9	1001.6	100.2	-4.8	1011.1	101.1
Magnesium	100000	100000	99876.0	100211.6	100.2	101185.5	101145.1	101.1	102016.8	102772.8	102.8
Manganese	1000	1000	1.5	955.2	95.5	1.4	963.3	96.3	1.3	982.0	98.2
Molybdenum			2.2	1.8		2.4	2.2		2.2	2.2	
Nickel	1000	1000	-2.7	981.7	98.2	-1.3	989.4	98.9	-1.7	1004.5	100.5
Potassium			10.1	-43.4		-0.8	-31.4		18.5	-24.0	
Selenium	1000	1000	14.4	1001.5	100.2	15.7	1012.0	101.2	11.7	1023.8	102.4
Silicon			-1.7	1.0		-0.2	0.3		0.8	3.4	
Silver	1000	1000	-1.3	1048.1	104.8	-1.4	1062.0	106.2	-1.2	1067.9	106.8
Sodium			13.3	30.0		17.1	29.1		16.5	31.2	
Strontium			4.1	4.1		4.1	4.1		4.2	4.2	
Thallium	1000	1000	-2.3	925.8	92.6	-4.5	939.8	94.0	0.4	949.3	94.9
Tin			-5.5	-6.8		-7.4	-6.5		-6.2	-7.4	
Titanium			1.6	1.1		1.6	1.3		1.1	1.4	
Vanadium	1000	1000	4.9	997.8	99.8	4.7	1011.5	101.2	4.9	1018.6	101.9
Zinc	1000	1000	2.6	979.1	97.9	1.9	987.5	98.8	1.9	1003.7	100.4

ICP Interference Check Sample



CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: City of Kenmore Sedi

RUNID: IP112971

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	197071.5	196571.7	98.3						
Antimony	1000	1000	11.4	1013.1	101.3						
Arsenic	1000	1000	14.8	1009.1	100.9						
Barium	1000	1000	-4.0	990.1	99.0						
Beryllium	1000	1000	0.1	1002.8	100.3						
Boron			-7.1	-3.6							
Cadmium	1000	1000	-0.1	1005.7	100.6						
Calcium	100000	100000	99287.4	99457.6	99.5						
Chromium	1000	1000	-0.9	998.0	99.8						
Cobalt	1000	1000	-0.8	934.7	93.5						
Copper	1000	1000	0.1	1030.4	103.0						
Iron	200000	200000	196614.9	196396.7	98.2						
Lead	1000	1000	-5.0	982.8	98.3						
Magnesium	100000	100000	97792.7	98140.1	98.1						
Manganese	1000	1000	1.2	949.9	95.0						
Molybdenum			2.2	2.1							
Nickel	1000	1000	-0.4	961.9	96.2						
Potassium			3.6	-43.6							
Selenium	1000	1000	10.5	996.9	99.7						
Silicon			-3.4	-2.0							
Silver	1000	1000	-1.1	1048.5	104.9						
Sodium			18.4	29.9							
Strontium			4.0	4.0							
Thallium	1000	1000	0.7	921.2	92.1						
Tin			-5.2	-5.7							
Titanium			2.4	2.1							
Vanadium	1000	1000	4.0	992.0	99.2						
Zinc	1000	1000	11.8	956.8	95.7						

IP112971

Post Digest Spike Sample Recovery

ANALYTICAL
RESOURCES 
INCORPORATED

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

ANALYSIS METHOD: ICP

SDG: VR58

UNITS: ug/L

ANALYTE	CLIENT ID	ARI ID	RUNID	SPIKED SAMPLE RESULT C	SAMPLE RESULT C	SPIKE ADDED	MATRIX	%R
Antimony	SG-10-S-E-121107A	VR58APOST	IP112771	4348.16	100.00U	4000	Sediment	108.7

FORM V

VR82:00218

IDLs and ICP Linear Ranges



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Antimony	SB	ICP	OPTIMA ICP 2	206.84		60	50.0	4/1/2012	30000.0	7/30/2012
Arsenic	AS	ICP	OPTIMA ICP 2	197.20		10	50.0	4/1/2012	30000.0	7/30/2012
Cadmium	CD	ICP	OPTIMA ICP 2	228.80		5	2.0	4/1/2012	20000.0	7/30/2012
Chromium	CR	ICP	OPTIMA ICP 2	267.72		10	5.0	4/1/2012	100000.0	7/30/2012
Copper	CU	ICP	OPTIMA ICP 2	324.75		25	2.0	4/1/2012	40000.0	7/30/2012
Lead	PB	ICP	OPTIMA ICP 2	220.35		3	20.0	4/1/2012	300000.0	7/30/2012
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	4/1/2012		
Nickel	NI	ICP	OPTIMA ICP 2	231.60		40	10.0	4/1/2012	100000.0	7/30/2012
Selenium	SE	PMS	NEXION 300D MS	0.00		5	0.5	4/1/2012		
Silver	AG	ICP	OPTIMA ICP 2	328.07		10	3.0	4/1/2012	5000.0	7/30/2012
Zinc	ZN	ICP	OPTIMA ICP 2	213.86		20	10.0	4/1/2012	100000.0	7/30/2012



ICP Interement Correction Factors

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

IEC DATE: 11/12/2012

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Antimony	206.84	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	9.1050360	0.000000	0.000000
Arsenic	188.98	0.000000	0.000000	0.000000	0.000000	0.0581760	0.000000	-0.8953680	1.5607750	0.000000	0.000000
Barium	233.53	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1763230	0.000000	0.000000	0.1637240
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Cadmium	228.80	0.000000	6.5458340	0.000000	0.000000	0.000000	0.000000	0.1152580	0.000000	0.000000	0.0095100
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chromium	267.72	0.000000	0.000000	0.0295099	0.000000	0.0091790	0.000000	-0.0348880	0.000000	0.000000	0.0392710
Cobalt	228.62	0.000000	0.000000	0.0788170	0.000000	0.000000	0.000000	0.000000	-0.0346500	0.000000	0.0130090
Copper	324.75	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1608400	0.000000	0.000000	-0.0442360
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-1.4437390	0.000000	0.000000
Lead	220.35	-0.2393490	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1467250	-1.7804540	1.4264890	0.0412430
Magnesium	279.08	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-1.4396410	-1.1694080	0.000000	0.5321920
Manganese	257.61	0.0046450	0.000000	0.000000	0.000000	0.0019080	0.000000	0.000000	0.000000	0.000000	-0.0054280
Molybdenum	202.03	0.000000	0.000000	0.000000	0.000000	0.0108090	0.000000	0.000000	0.0540880	0.000000	0.000000
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium	196.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.4883700	0.000000	0.000000	0.000000
Silicon	288.16	0.000000	0.000000	0.000000	0.000000	0.000000	-3.5902270	0.000000	0.000000	0.000000	0.000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Thallium	190.80	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.5577350	0.3891400	0.000000	-0.1069480
Tin	189.93	0.000000	0.000000	0.000000	0.000000	-0.1236770	0.000000	0.000000	0.000000	0.000000	0.000000
Titanium	334.90	0.000000	0.000000	0.000000	0.000000	0.0477260	0.000000	0.000000	0.1988470	0.000000	0.000000
Vanadium	292.40	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-4.2880510	0.000000	0.0349450
Zinc	206.20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0645950	0.000000	0.000000

ICP Interelement Correction Factors



CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58

IEC DATE: 11/12/2012
INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.000000	0.000000	17.2648390	0.000000	0.000000	0.000000	2.1534780	0.000000	14.6676620	0.0000000
Antimony	206.84	0.000000	0.000000	0.000000	-0.3171320	0.000000	0.000000	-1.6488050	0.000000	-2.7828430	0.0000000
Arsenic	188.98	0.000000	0.000000	3.5824010	0.000000	0.000000	0.000000	-28.6279570	0.000000	0.0000000	0.0000000
Barium	233.53	0.000000	0.000000	0.000000	0.1006020	0.000000	0.000000	0.000000	0.000000	0.2160840	0.0000000
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0120420	0.000000	0.1997240	0.0000000
Cadmium	228.80	0.000000	0.000000	0.000000	-0.9709640	0.000000	0.000000	0.000000	0.000000	0.6837900	0.0000000
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Chromium	267.72	0.0863140	0.0880780	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.3314250	0.0362000
Cobalt	228.62	0.000000	0.000000	-0.1203920	0.1624660	0.000000	0.000000	1.9337740	0.000000	0.0000000	0.0000000
Copper	324.75	0.0084630	0.000000	0.4010840	0.000000	0.000000	0.000000	0.2064430	0.000000	0.0000000	0.0000000
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	8.4794020	0.0000000
Lead	220.35	0.000000	0.000000	-0.4099510	-0.1101090	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Magnesium	279.08	0.000000	0.000000	-5.5537550	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Manganese	257.61	0.000000	0.000000	0.000000	0.000000	-0.2086980	0.000000	0.000000	0.000000	-0.0242310	0.0000000
Molybdenum	202.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	-0.5468870	0.000000	0.4309940	0.0000000	0.0000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Selenium	196.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.5703720	0.0000000
Silicon	288.16	-0.1197150	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.0400098	0.000000	-2.8848200	0.0000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Thallium	190.80	0.000000	-0.8464030	-0.9915990	0.000000	0.000000	0.000000	0.000000	0.000000	3.4340400	0.0000000
Tin	189.93	0.000000	0.000000	0.8648230	0.000000	-0.0322750	-0.4551870	-0.1436590	0.000000	0.0000000	0.0000000
Titanium	334.90	0.000000	0.000000	0.8648230	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000	0.0000000
Vanadium	292.40	0.000000	-0.1521530	0.5765370	0.000000	0.000000	0.000000	0.5629710	0.000000	0.0000000	0.0000000
Zinc	206.20	0.000000	0.000000	0.2677330	0.000000	-0.0519400	0.000000	0.000000	0.000000	0.0000000	0.0000000

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: CVA

PROJECT: City of Kenmore Sedi

ARI PREP CODE: SMM

SDG: VR58

PREPDATE: 11/16/2012

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
SG-10-S-E-121107	VR58A	0.284	0.0	50.0
SG-10-S-E-121107D	VR58ADUP	0.282	0.0	50.0
SG-10-S-E-121107S	VR58ASPK	0.288	0.0	50.0
SG-11-S-E-121107	VR58B	0.271	0.0	50.0
SG-12-S-E-121107	VR58C	0.217	0.0	50.0
SG-13-S-E-121107	VR58D	0.221	0.0	50.0
SG-13-S-E-dup-1211	VR58E	0.231	0.0	50.0
SG-14-S-E-121107	VR58F	0.206	0.0	50.0
SG-15-S-E-121107	VR58G	0.260	0.0	50.0
SG-16-S-E-121107	VR58H	0.238	0.0	50.0
SG-17-S-E-121107	VR58I	0.247	0.0	50.0
SG-01-S-C-121107	VR58J	0.219	0.0	50.0
PBS	VR58MB1	0.200	0.0	50.0
LCSW	VR58MB1SPK	0.200	0.0	50.0
SG-02-S-C-121108	VR82A	0.262	0.0	50.0
SG-03-S-C-121108	VR82B	0.215	0.0	50.0
SG-04-S-C-121108	VR82C	0.271	0.0	50.0
SG-05-S-C-121108	VR82D	0.225	0.0	50.0
SG-06-S-C-121108	VR82E	0.268	0.0	50.0
SG-07-S-C-121108	VR82F	0.218	0.0	50.0
SG-07-S-C-dup-1211	VR82G	0.236	0.0	50.0
SG-08-S-C-121108	VR82H	0.219	0.0	50.0
SG-09-S-C-121108	VR82I	0.217	0.0	50.0

Preparation Log



CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58

ANALYSIS METHOD: ICP
ARI PREP CODE: SWC
PREPDATE: 11/16/2012

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
SG-10-S-E-121107	VR58A	1.071	0.0	50.0
SG-10-S-E-121107D	VR58ADUP	1.070	0.0	50.0
SG-10-S-E-121107S	VR58ASPK	1.073	0.0	50.0
SG-11-S-E-121107	VR58B	1.032	0.0	50.0
SG-12-S-E-121107	VR58C	1.043	0.0	50.0
SG-13-S-E-121107	VR58D	1.019	0.0	50.0
SG-13-S-E-dup-1211	VR58E	1.007	0.0	50.0
SG-14-S-E-121107	VR58F	1.043	0.0	50.0
SG-15-S-E-121107	VR58G	1.080	0.0	50.0
SG-16-S-E-121107	VR58H	1.068	0.0	50.0
SG-17-S-E-121107	VR58I	1.034	0.0	50.0
SG-01-S-C-121107	VR58J	1.073	0.0	50.0
PBS	VR58MB1	1.000	0.0	50.0
LCSS	VR58MB1SPK	1.000	0.0	50.0
SG-02-S-C-121108	VR82A	1.044	0.0	50.0
SG-03-S-C-121108	VR82B	1.021	0.0	50.0
SG-04-S-C-121108	VR82C	1.035	0.0	50.0
SG-05-S-C-121108	VR82D	1.082	0.0	50.0
SG-06-S-C-121108	VR82E	1.048	0.0	50.0
SG-07-S-C-121108	VR82F	1.038	0.0	50.0
SG-07-S-C-dup-1211	VR82G	1.042	0.0	50.0
SG-08-S-C-121108	VR82H	1.044	0.0	50.0
SG-09-S-C-121108	VR82I	1.013	0.0	50.0

Preparation Log



CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58

ANALYSIS METHOD: PMS
ARI PREP CODE: SWN
PREPDATE: 11/16/2012

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
SG-10-S-E-121107	VR58A	1.068	0.0	50.0
SG-10-S-E-121107D	VR58ADUP	1.072	0.0	50.0
SG-10-S-E-121107S	VR58ASPK	1.063	0.0	50.0
SG-11-S-E-121107	VR58B	1.071	0.0	50.0
SG-12-S-E-121107	VR58C	1.077	0.0	50.0
SG-13-S-E-121107	VR58D	1.048	0.0	50.0
SG-13-S-E-dup-1211	VR58E	1.055	0.0	50.0
SG-14-S-E-121107	VR58F	1.013	0.0	50.0
SG-15-S-E-121107	VR58G	1.048	0.0	50.0
SG-16-S-E-121107	VR58H	1.077	0.0	50.0
SG-17-S-E-121107	VR58I	1.015	0.0	50.0
SG-01-S-C-121107	VR58J	1.081	0.0	50.0
PBS	VR58MB1	1.000	0.0	50.0
LCSS	VR58MB1SPK	1.000	0.0	50.0
SG-02-S-C-121108	VR82A	1.032	0.0	50.0
SG-03-S-C-121108	VR82B	1.063	0.0	50.0
SG-04-S-C-121108	VR82C	1.076	0.0	50.0
SG-05-S-C-121108	VR82D	1.078	0.0	50.0
SG-06-S-C-121108	VR82E	1.017	0.0	50.0
SG-07-S-C-121108	VR82F	1.096	0.0	50.0
SG-07-S-C-dup-1211	VR82G	1.059	0.0	50.0
SG-08-S-C-121108	VR82H	1.028	0.0	50.0
SG-09-S-C-121108	VR82I	1.030	0.0	50.0

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2

RUNID: IP112771 METHOD: ICP

START DATE: 11/27/2012

END DATE: 11/27/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	FG	HC	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
S0			1.00 10210																																X
S2			1.00 10251																																X
S3			1.00 10270		X																														X
S4			1.00 10291																																X
S5			1.00 10313																																X
ICV			1.00 10343		X																														X
ICB			1.00 10383		X																														X
CRI			1.00 10425		X																														X
ICSAI			1.00 10471		X																														X
ICSABI			1.00 10512		X																														X
CCV1			1.00 10561		X																														X
CCB1			1.00 11012		X																														X
PBS			2.00 11081		X																														X
SG-11-S-E-121107			2.00 11123		X																														X
SG-12-S-E-121107			2.00 11163		X																														X
SG-13-S-E-121107			2.00 11202		X																														X
SG-13-S-E-dup-1211			2.00 11242		X																														X
SG-10-S-E-121107D			2.00 11282		X																														X
SG-10-S-E-121107			2.00 11322		X																														X
SG-10-S-E-121107S			2.00 11362		X																														X
SG-10-S-E-121107A			2.00 11392		X																														X
ICSS			2.00 11422		X																														X
CCV			1.00 11462		X																														X
CCB			1.00 11513		X																														X
SG-14-S-E-121107			2.00 11554		X																														X
SG-15-S-E-121107			2.00 11594		X																														X
SG-16-S-E-121107			2.00 12034		X																														X
SG-17-S-E-121107			2.00 12074		X																														X
SG-01-S-C-121107			2.00 12114		X																														X
SG-02-S-C-121108			2.00 12154		X																														X
SG-03-S-C-121108			2.00 12194		X																														X
SG-04-S-C-121108			2.00 12234		X																														X
SG-05-S-C-121108			2.00 12272		X																														X
SG-06-S-C-121108			2.00 12312		X																														X
CCV			1.00 12352		X																														X

VR02 : 00225

Analysis Run Log



CLIENT: Anchor QEA, LLC.
 PROJECT: City of Kenmore Sedi
 INSTRUMENT ID: OPTIMA ICP 2
 METHOD: ICP
 SDG: VR58
 RUNID: IP112771
 START DATE: 11/27/2012
 END DATE: 11/27/2012

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	EA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
CCB	CCB3		1.00 12402																															X
SG-07-S-C-121108	VR82F		2.00 12444																															X
SG-07-S-C-dup-1211	VR82G		2.00 12484																															X
SG-08-S-C-121108	VR82H		2.00 12524																															X
SG-09-S-C-121108	VR82I		2.00 12564																															X
CCV	CCV4		1.00 13003		X																													X
CCV	CCV5		1.00 13070		X																													X
CCB	CCB4		1.00 13121		X																													X
S4	S4		1.00 13224																															X
S5	S5		1.00 13250																															X
CCV	CCV6		1.00 13290		X																													X
CCB	CCB5		1.00 13335		X																													X
ZZZZZ	VS22MB1		2.00 13382																															X
ZZZZZ	VS22B		5.00 13424																															X
ZZZZZ	VS22C		5.00 13464																															X
ZZZZZ	VS22D		5.00 13503																															X
ZZZZZ	ZZZZZ		25.00 13544																															X
ZZZZZ	VS22A		5.00 13583																															X
ZZZZZ	VS22ADUP		5.00 14023																															X
ZZZZZ	VS22ASPK		5.00 14063																															X
ZZZZZ	ZZZZZ		5.00 14103																															X
ZZZZZ	VS22MB1SPK		2.00 14142																															X
CCV	CCV7		1.00 14182		X																													X
CCV	CCV8		1.00 14270		X																													X
CCV	CCV9		1.00 14375		X																													X
CCB	CCB6		1.00 14425		X																													X
ZZZZZ	VS22E		5.00 14470																															X
ZZZZZ	VS22F		5.00 14510																															X
ZZZZZ	VS22G		5.00 14550																															X
ZZZZZ	VS22H		5.00 14590																															X
ZZZZZ	VS22I		5.00 15030																															X
ZZZZZ	VS22J		5.00 15070																															X
ZZZZZ	VS22K		5.00 15110																															X
ZZZZZ	VS22L		5.00 15150																															X
CCV	CCV10		1.00 15191		X																													X

5002 : 00220

Analysis Run Log



CLIENT: Anchor QEA, LLC.
 PROJECT: City of Kenmore Sedi
 INSTRUMENT ID: OPTIMA ICP 2
 START DATE: 11/27/2012
 SDG: VR58
 RUNID: IP112771
 METHOD: ICP
 END DATE: 11/27/2012

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
CCB	CCB7		1.00	15233																															X	
CRI	CRIF		1.00	15275	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSA	ICSAF		1.00	15320	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSAB	ICSABF		1.00	15362	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV	CCV11		1.00	15401	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	CCB8		1.00	15451	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ	VS22MB1		2.00	15493																																
ZZZZZZ	VS22B		5.00	15534																																
ZZZZZZ	VS22C		5.00	15574																																
ZZZZZZ	VS22D		5.00	16014																																
ZZZZZZ	VS22A-L		25.00	16054																																
ZZZZZZ	VS22A		5.00	16094																																
ZZZZZZ	VS22ADUP		5.00	16134																																
ZZZZZZ	VS22ASEK		5.00	16174																																
ZZZZZZ	VS22APOST		5.00	16214																																
ZZZZZZ	VS22MB1SPK		2.00	16252																																
CCV	CCV12		1.00	16292	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	CCB9		1.00	16343	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CRI	CRIF1		1.00	16384	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSA	ICSAF1		1.00	16425	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSAB	ICSABF1		1.00	16471	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV	CCV13		1.00	16510	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	CCB10		1.00	16560	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ	VR80C		1.00	17002																																
SG-07-S-C-121108	VR82F		2.00	17043																																
SG-07-S-C-dup-1211	VR82G		2.00	17083																																
SG-08-S-C-121108	VR82H		2.00	17123																																
SG-09-S-C-121108	VR82I		2.00	17163																																
CCV	CCV14		1.00	17203	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	CCB11		1.00	17254	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2
 RUNID: IP112871 METHOD: ICP

START DATE: 11/28/2012
 END DATE: 11/28/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
S0	S0	1.00	09271		X																												X			
S2	S2	1.00	09312																															X		
S3	S3	1.00	09331		X																													X		
S4	S4	1.00	09354																																X	
S5	S5	1.00	09380																																X	
ICV	ICV	1.00	09414		X																													X		
ICB	ICB	1.00	09450		X																														X	
CRI	CRI	1.00	09492		X																														X	
ICSA	ICSAI	1.00	09533		X																														X	
ICSAB	ICSABI	1.00	09574		X																														X	
CCV	CCV1	1.00	10024		X																														X	
CCB	CCB1	1.00	10070		X																														X	
ZZZZZ	VS61MB1	1.00	10112																																X	
ZZZZZ	VS61B	1.00	10154																																	X
ZZZZZ	VS61C	1.00	10195																																	X
ZZZZZ	VS61A-L	5.00	10241																																	X
ZZZZZ	VS61A	1.00	10283																																	X
ZZZZZ	VS61ADUP	1.00	10324																																	X
ZZZZZ	VS61ASPK	1.00	10370																																	X
ZZZZZ	ZZZZZ	1.00	10410																																	X
ZZZZZ	VS61MB1SPK	1.00	10451																																	X
CCV	CCV2	1.00	10491		X																														X	
CCB	CCB2	1.00	10533		X																															X
CRI	CRI1	1.00	10575		X																															X
ICSA	ICSAF	1.00	11020		X																															X
ICSAB	ICSABF	1.00	11061		X																															X
CCV	CCV3	1.00	11101		X																															X
CCB	CCB3	1.00	11143		X																															X
ZZZZZ	VS80MB1	1.00	11185																																	X
ZZZZZ	VS80B	1.00	11230																																	X
ZZZZZ	VS80C	1.00	11272																																	X
ZZZZZ	VS80A-L	5.00	11314																																	X
ZZZZZ	VS80A	1.00	11355																																	X
ZZZZZ	VS80ADUP	1.00	11401																																	X
ZZZZZ	VS80ASPK	1.00	11443																																	X

11/28/2012 11:00:00 AM

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2

RUNID: IP112871

START DATE: 11/28/2012

END DATE: 11/28/2012

METHOD: ICP

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
ZZZZZZ	ZZZZZZ		1.00	11485																													X	
ZZZZZZ	VS80MB1SPK		1.00	11531																													X	
CCV	CCV4		1.00	11571		X																										X		
CCB	CCB4		1.00	12013		X																											X	
CRI	CRIF1		1.00	12055		X																											X	
ICSA	ICSAF1		1.00	12100		X																											X	
ICSAB	ICSABF1		1.00	12141		X																											X	
CCV	CCV5		1.00	12181		X																											X	
CCB	CCB5		1.00	12223		X																											X	
ZZZZZZ	VS82MB1		2.00	12265																													X	
ZZZZZZ	VS82A		2.00	12311																													X	
ZZZZZZ	VS82B		2.00	12354																													X	
ZZZZZZ	VS82D		2.00	12401																													X	
ZZZZZZ	ZZZZZZ		10.00	12444																													X	
ZZZZZZ	VS82C		2.00	12490																													X	
ZZZZZZ	VS82CDUP		2.00	12534																													X	
ZZZZZZ	VS82CSPK		2.00	12580																													X	
ZZZZZZ	ZZZZZZ		2.00	13023																													X	
ZZZZZZ	VS82MB1SPK		2.00	13070																													X	
CCV	CCV6		1.00	13111		X																											X	
CCB	CCB6		1.00	13153		X																											X	
ZZZZZZ	VS82A		10.00	13441																														X
ZZZZZZ	VS82B		10.00	13483																														X
ZZZZZZ	VS82D		10.00	13525																														X
ZZZZZZ	VS82E		10.00	13571																														X
ZZZZZZ	VS82F		10.00	14013																														X
ZZZZZZ	VS82C-L		50.00	14055																														X
ZZZZZZ	VS82C		10.00	14100																														X
ZZZZZZ	VS82CDUP		10.00	14142																														X
ZZZZZZ	VS82CSPK		10.00	14184																														X
ZZZZZZ	ZZZZZZ		10.00	14230																														X
CCV	CCV7		1.00	14272		X																											X	
CCB	CCB7		1.00	14314		X																											X	
ZZZZZZ	VS82G		10.00	14360																													X	
ZZZZZZ	VS82H		10.00	14402																														X

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: OPTIMA ICP 2

START DATE: 11/28/2012

RUNID: IP112871

END DATE: 11/28/2012

METHOD: ICP

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
ZZZZZZ	VS82I	10.00	14444																																	
ZZZZZZ	VS82J	10.00	14485																																	
ZZZZZZ	VS82K	10.00	14531																																	
ZZZZZZ	VS82L	10.00	14573																																	
ZZZZZZ	VS82M	10.00	15015																																	
ZZZZZZ	VS82E	5.00	15061																																	
ZZZZZZ	VS82F	5.00	15102																																	
SG-10-S-E-121107D	VR58ADUP	2.00	15144	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV	CCV8	1.00	15185	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB	CCB8	1.00	15231	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Analysis Run Log

CLIENT: Anchor QEA, LLC.
 PROJECT: City of Kenmore Sedi
 INSTRUMENT ID: OPTIMA ICP 2
 START DATE: 11/29/2012
 END DATE: 11/29/2012
 SDG: VR58
 RUNID: IPI12971
 METHOD: ICP

CLIENT ID	ARI ID	DIL.	TIME	VR	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
S0			1.00	10134	X																												X		
S2			1.00	10180																														X	
S3			1.00	10195	X																													X	
S4			1.00	10222																															X
S5			1.00	10244																															X
ICV			1.00	10275	X																													X	
ICB			1.00	10311	X																													X	
CRI			1.00	10353	X																													X	
ICSA			1.00	10394	X																													X	
ICSAB			1.00	10434	X																													X	
CCV			1.00	10485	X																													X	
CCB			1.00	10531	X																													X	
ZZZZZ			2.00	10573																														X	
SG-07-S-C-121108			2.00	11014	X																													X	
SG-07-S-C-dup-1211			2.00	11054	X																													X	
SG-08-S-C-121108			2.00	11094	X																													X	
SG-09-S-C-121108			2.00	11134	X																													X	
ZZZZZ			5.00	11174																															X
VT85ADUP			5.00	11174																															X
VT85A			5.00	11214																															X
VT85ASPK			5.00	11254																															X
VT85MBSPK			2.00	11294																															X
CCV			1.00	11334	X																													X	
CCB			1.00	11380	X																													X	

VR82 : 00291



Analysis Run Log

CLIENT: Anchor QEA, LLC.
 PROJECT: City of Kenmore Sedi
 SDG: VR58

INSTRUMENT ID: NEXION 300D MS
 RUNID: MS112711 METHOD: PMS

START DATE: 11/27/2012
 END DATE: 11/27/2012

CLIENT ID	API ID	DIL.	TIME	%R	AG	AL	AS	B	EA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
S0			1.00																																X	
S1			1.00																																X	
S2			1.00																																X	
S3			1.00																																X	
S4			1.00																																X	
S5			1.00																																X	
zzzzzz			1.00																																X	
S0			1.00																																X	
ICV			1.00																																X	
ICB			1.00																																X	
CCV			1.00																																X	
CCB			1.00																																X	
zzzzzz			1.00																																X	
ICSA			1.00																																X	
ICSAB			1.00																																X	
zzzzzz			1.00																																X	
LR200			1.00																																X	
LR300			1.00																																X	
B1			1.00																																X	
B2			1.00																																	X
B3			1.00																																	X
MCCV2			1.00																																X	
CCB2			1.00																																X	
S0			1.00																																X	
MCCV3			1.00																																	X
CCB3			1.00																																	X
MCR1			1.00																																	X
VS17MB1			2.00																																X	
VS17MB1SPK			2.00																																X	
VS17MB2SPK			2.00																																	X
VS17ADUP			2.00																																	X
VS17A			2.00																																	X
VS17ASPK			2.00																																	X
VS17EDUP			2.00																																	X
VS17E			2.00																																	X
VS17ESPK			2.00																																	X

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: NEXION 300D MS

RUNID: MS112711

METHOD: PMS

START DATE: 11/27/2012

END DATE: 11/27/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	EA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
CCV	MCCV4		1.00	14470																													X		
CCB	CCB4		1.00	14540																													X		
ZZZZZZ	VS17MB2		2.00	15060																															
ZZZZZZ	VS17B		2.00	15100																															
ZZZZZZ	VS17C		2.00	15140																															
ZZZZZZ	VS17D		2.00	15180																															
ZZZZZZ	VS17F		2.00	15220																															
ZZZZZZ	VS17G		2.00	15260																															
ZZZZZZ	VS17H		2.00	15320																															
ZZZZZZ	VT58D		100.00	15360																															
ZZZZZZ	VT58E		100.00	15400																															
ZZZZZZ	VT58F		100.00	15440																															
CCV	MCCV5		1.00	15480																														X	
CCB	CCB5		1.00	15550																														X	
ZZZZZZ	VS20MB1		20.00	16020																															
ZZZZZZ	VS20MB1SEK		20.00	16070																															
ZZZZZZ	VS20B		20.00	16110																															
ZZZZZZ	VS20C		20.00	16150																															
ZZZZZZ	VS20D		20.00	16190																															
ZZZZZZ	VS20E		500.00	16230																															
ZZZZZZ	VS20G		20.00	16270																															
ZZZZZZ	VS20H		20.00	16310																															
ZZZZZZ	VS20I		20.00	16360																															
ZZZZZZ	VS20J		20.00	16410																															
CCV	MCCV6		1.00	16450																															X
CCB	CCB6		1.00	16520																															X
ZZZZZZ	VS21A-L		500.00	17090																															
ZZZZZZ	VS21A		100.00	17130																															
ZZZZZZ	VS21ADUP		100.00	17170																															
ZZZZZZ	VS21ASPK		100.00	17210																															
ZZZZZZ	ZZZZZZ		100.00	17250																															
ZZZZZZ	VS21B		200.00	17290																															
ZZZZZZ	VS21D		100.00	17330																															
ZZZZZZ	VS21E		100.00	17370																															
ZZZZZZ	VS21G		50.00	17430																															

VR02 : 00200

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: NEXION 300D MS

RUNID: MS112711

METHOD: PMS

START DATE: 11/27/2012

END DATE: 11/27/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
ZZZZZZ	VS21H		50.00	17470																														
CCV	MCCV7		1.00	17510																														X
CCB	CCB7		1.00	17580																														X
ZZZZZZ	VS21I		100.00	18020																														
ZZZZZZ	VS21J		50.00	18060																														
ZZZZZZ	VS21J		100.00	18100																														
SG-04-S-C-121108	VR82C		20.00	18140																														X
SG-05-S-C-121108	VR82D		20.00	18180																														X
SG-06-S-C-121108	VR82E		20.00	18220																														X
SG-07-S-C-121108	VR82F		20.00	18270																														X
SG-07-S-C-dup-1211	VR82G		20.00	18310																														X
SG-08-S-C-121108	VR82H		20.00	18360																														X
SG-09-S-C-121108	VR82I		20.00	18400																														X
CCV	MCCV8		1.00	18440																														X
CCB	CCB8		1.00	18510																														X
ZZZZZZ	VS21MB1		20.00	18550																														
ZZZZZZ	VS21MB1SPK		20.00	18590																														
ZZZZZZ	VS21A-L		100.00	19030																														
ZZZZZZ	VS21A		20.00	19080																														
ZZZZZZ	VS21ADUP		20.00	19120																														
ZZZZZZ	VS21ASPK		20.00	19160																														
ZZZZZZ	VS21APOST		20.00	19200																														
ZZZZZZ	VS21B		20.00	19240																														
ZZZZZZ	VS21C		20.00	19290																														
ZZZZZZ	VS21D		20.00	19330																														
CCV	MCCV9		1.00	19380																														X
CCB	CCB9		1.00	19440																														X
ZZZZZZ	VR88MB2SPK		2.00	19490																														
ZZZZZZ	VR88J		5.00	19530																														
ZZZZZZ	VS21E		20.00	19570																														
ZZZZZZ	VS21F		20.00	20010																														
ZZZZZZ	VS21G		20.00	20050																														
ZZZZZZ	VS21H		20.00	20090																														
ZZZZZZ	VS21I		20.00	20130																														
ZZZZZZ	VS21J		20.00	20170																														

VR82 : 00204

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: CETAC MERCURY

RUNID: HG111701

METHOD: CVA

START DATE: 11/17/2012

END DATE: 11/17/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN					
S0			1.00	06462													X																					
S0.1			1.00	06475													X																					
S0.5			1.00	06493													X																					
S1			1.00	06511													X																					
S2			1.00	06524													X																					
S5			1.00	06542													X																					
S10			1.00	06560													X																					
ICV			1.00	07050													X																					
ICB			1.00	07063													X																					
CCV			1.00	07081													X																					
CCB			1.00	07095													X																					
CRA			1.00	07113													X																					
ZZZZZZ			1.00	07130													X																					
ZZZZZZ			1.00	07144													X																					
ZZZZZZ			1.00	07161													X																					
ZZZZZZ			1.00	07175													X																					
ZZZZZZ			1.00	07193													X																					
ZZZZZZ			1.00	07210													X																					
ZZZZZZ			1.00	07224													X																					
ZZZZZZ			1.00	07242													X																					
ZZZZZZ			1.00	07260													X																					
CCV			1.00	07274													X																					
CCB			1.00	07292													X																					
ZZZZZZ			1.00	07310													X																					
ZZZZZZ			1.00	07323													X																					
ZZZZZZ			1.00	07341													X																					
ZZZZZZ			1.00	07354													X																					
ZZZZZZ			1.00	07372													X																					
ZZZZZZ			1.00	07385													X																					
ZZZZZZ			1.00	07403													X																					
ZZZZZZ			1.00	07421													X																					
ZZZZZZ			1.00	07434													X																					
ZZZZZZ			1.00	07452													X																					
CCV			1.00	07470													X																					
CCV			1.00	07584													X																					

Analysis Run Log

CLIENT: Anchor QEA, LLC.
PROJECT: City of Kenmore Sedi
SDG: VR58

INSTRUMENT ID: CETAC MERCURY
RUNID: HG1111701 METHOD: CVA

START DATE: 11/17/2012
END DATE: 11/17/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
CCB	CCB3		1.00	08002																														
ZZZZZZ	VS18F		1.00	08020																														
ZZZZZZ	VS18G		1.00	08033																														
ZZZZZZ	VS18H		1.00	08051																														
ZZZZZZ	VS18I		1.00	08064																														
ZZZZZZ	VS18J		1.00	08082																														
ZZZZZZ	VS18K		1.00	08095																														
ZZZZZZ	VS18L		1.00	08113																														
ZZZZZZ	VR37MB1		1.00	08131																														
ZZZZZZ	VR37MB1SPK		1.00	08144																														
ZZZZZZ	VR37A		1.00	08162																														
CCV	ACCV5		1.00	08180																														
CCB	CCB4		1.00	08194																														
ZZZZZZ	VR37ADUP		1.00	08212																														
ZZZZZZ	VR37ASPK		1.00	08230																														
ZZZZZZ	VR37B		1.00	08243																														
ZZZZZZ	VR37C		1.00	08261																														
ZZZZZZ	VR37D		1.00	08274																														
ZZZZZZ	VR37E		1.00	08292																														
ZZZZZZ	VR37F		1.00	08310																														
ZZZZZZ	VR37G		1.00	08323																														
ZZZZZZ	VR37H		1.00	08341																														
ZZZZZZ	VR37I		1.00	08355																														
CCV	ACCV6		1.00	08373																														
CCB	CCB5		1.00	08391																														
ZZZZZZ	VR37J		1.00	08404																														
ZZZZZZ	VR37K		1.00	08422																														
ZZZZZZ	VR37L		1.00	08440																														
ZZZZZZ	VR37M		1.00	08454																														
ZZZZZZ	VR37N		1.00	08472																														
ZZZZZZ	VR37O		1.00	08485																														
PBW	VR58MB1		1.00	08503																														
LCSW	VR58MB1SPK		1.00	08520																														
SG-10-S-E-	VR58A		1.00	08534																														
SG-10-S-E-	VR58ADUP		1.00	08552																														

VR58 : 08207

Analysis Run Log

CLIENT: Anchor QEA, LLC.

PROJECT: City of Kenmore Sedi

SDG: VR58

INSTRUMENT ID: CETAC MERCURY

RUNID: HG111701 METHOD: CVA

START DATE: 11/17/2012

END DATE: 11/17/2012



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
CCV	ACC7	1.00	08565														X																			
CCB	CCB6	1.00	08584														X																			
SG-10-S-E-121107S	VR58ASPK	1.00	09001														X																			
SG-11-S-E-121107	VR58B	1.00	09015														X																			
SG-12-S-E-121107	VR58C	1.00	09033														X																			
SG-13-S-E-121107	VR58D	1.00	09051														X																			
SG-13-S-E-dup-1211	VR58E	1.00	09065														X																			
SG-14-S-E-121107	VR58F	1.00	09082														X																			
SG-15-S-E-121107	VR58G	1.00	09100														X																			
SG-16-S-E-121107	VR58H	1.00	09114														X																			
SG-17-S-E-121107	VR58I	1.00	09131														X																			
SG-01-S-C-121107	VR58J	1.00	09145														X																			
CCV	ACC7	1.00	09163														X																			
CCB	CCB7	1.00	09181														X																			
SG-02-S-C-121108	VR82A	1.00	09195														X																			
SG-03-S-C-121108	VR82B	1.00	09213														X																			
SG-04-S-C-121108	VR82C	1.00	09230														X																			
SG-05-S-C-121108	VR82D	1.00	09244														X																			
SG-06-S-C-121108	VR82E	1.00	09262														X																			
SG-07-S-C-121108	VR82F	1.00	09280														X																			
SG-07-S-C-dup-1211	VR82G	1.00	09294														X																			
SG-08-S-C-121108	VR82H	1.00	09311														X																			
SG-09-S-C-121108	VR82I	1.00	09325														X																			
CCV	ACC7	1.00	09343														X																			
CCB	CCB8	1.00	09361														X																			


VR02 : 00200

**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 11/28/12

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-02-S-C-121108
ARI ID: 12-22479 VR82A

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	25.70
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	13.51
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	7.12

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-03-S-C-121108
ARI ID: 12-22480 VR82B

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	25.60
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	15.15
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	6.60

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized 'J' or 'K' followed by a flourish.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-04-S-C-121108
ARI ID: 12-22481 VR82C

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	80.80
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	1.72
Total Organic Carbon	11/27/12 112712#1	Plumb,1981	Percent	0.020	2.73

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-05-S-C-121108
ARI ID: 12-22482 VR82D

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	35.00
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	11.13
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	5.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-06-S-C-121108
ARI ID: 12-22483 VR82E

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	29.90
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	13.89
Total Organic Carbon	11/27/12 112712#1	Plumb,1981	Percent	0.020	4.89

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized
Reported: 11/28/12

A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' text.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-07-S-C-121108
ARI ID: 12-22484 VR82F

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	33.70
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	13.40
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	4.95

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

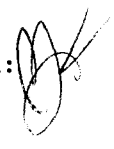
Client ID: SG-07-S-C-dup-121108
ARI ID: 12-22485 VR82G

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	34.30
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	14.11
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	7.07

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 11/28/12

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-08-S-C-121108
ARI ID: 12-22486 VR82H

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	42.00
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	9.10
Total Organic Carbon	11/27/12 112712#1	Plumb, 1981	Percent	0.020	3.30

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12

A handwritten signature in black ink, appearing to be 'M. J. ...', located between the matrix information and the project details.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: 11/08/12
Date Received: 11/08/12

Client ID: SG-09-S-C-121108
ARI ID: 12-22487 VR82I

Analyte	Date	Method	Units	RL	Sample
Total Solids	11/19/12 111912#1	SM2540B	Percent	0.01	35.70
Total Volatile Solids	11/19/12 111912#1	SM2540E	Percent	0.01	10.58
Total Organic Carbon	11/27/12 112712#1	Plumb,1981	Percent	0.020	5.22

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12


A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon Plumb, 1981	ICVL	11/27/12	Percent	0.095	0.100	95.0%

METHOD BLANK RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 11/28/12

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	11/19/12	Percent	< 0.01 U
Total Volatile Solids	11/19/12	Percent	< 0.01 U
Total Organic Carbon	11/27/12	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
VR82-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 11/28/12

A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: City of Kenmore Sediments
Event: 120891-01.01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST 1941B	11/27/12	Percent	2.81	2.99	94.0%

**Geotechnical Analysis
Report and Summary QC Forms**

ARI Job ID: VR82

Anchor QEA, LLC.
 City of Kenmore Sediments
 120891-01.01

Apparent Grain Size Distribution Summary
 Percent Finer Than Indicated Size

Sample No.	Gravel			Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt				Clay	
	-3 3/8"	-2 #4 (4750)	-1 #10 (2000)						5	6	7	8	9	10
Phi Size				0	1	2	3	4	5	6	7	8	9	10
Sieve Size (microns)				#18 (1000)	#35 (500)	#60 (250)	#120 (125)	#230 (63)	31.00	15.60	7.80	3.90	2.00	1.00
SG-06-S-C-121108	100.0	100.0	100.0	92.6	86.0	79.8	71.1	55.2	46.6	31.0	18.9	11.2	4.8	1.6
	100.0	100.0	99.8	92.8	86.5	81.7	72.7	56.9	46.4	30.6	18.3	9.5	4.2	1.4
	100.0	100.0	100.0	92.0	85.9	80.5	71.8	56.0	45.4	30.5	18.5	9.7	4.3	1.4
SG-02-S-C-121108	100.0	100.0	99.6	93.2	87.6	82.1	74.9	65.8	55.9	36.6	21.4	10.2	4.6	1.4
SG-03-S-C-121108	100.0	88.2	88.2	79.0	71.8	64.7	56.8	46.7	33.6	25.3	14.4	7.4	2.9	1.1
SG-04-S-C-121108	100.0	49.7	28.6	21.0	14.0	6.4	3.5	2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SG-05-S-C-121108	100.0	97.3	96.9	94.0	88.7	77.6	63.3	48.1	40.4	24.5	14.6	7.5	3.2	1.3
SG-07-S-C-121108	100.0	100.0	99.5	96.8	93.7	87.4	63.0	44.1	33.1	21.0	13.1	7.2	3.4	0.9
SG-07-S-C-dup-121108	100.0	98.6	97.4	94.7	91.9	85.9	64.0	45.4	31.7	20.7	13.1	7.0	3.1	0.9
SG-08-S-C-121108	100.0	100.0	99.7	98.2	96.7	92.8	70.5	49.3	36.3	22.6	14.2	7.9	4.0	1.4
SG-09-S-C-121108	100.0	100.0	99.9	97.7	96.0	89.1	73.2	59.7	40.0	27.1	16.2	8.6	3.9	1.3

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

Anchor QEA, LLC.
City of Kenmore Sediments
120891-01.01

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
											8 to 9	9 to 10	> 10	
Phi Size	< -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	> 10	> 4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-10000)	18-35 (1000-5000)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<200 (<62)
SG-06-S-C-121108	0.0	7.4	6.6	6.2	8.6	15.9	8.6	15.5	12.1	7.8	6.3	3.2	1.6	55.2
	0.2	6.9	6.3	4.8	9.0	15.7	10.5	15.8	12.3	8.8	5.3	2.8	1.4	56.9
	0.0	8.0	6.1	5.5	8.7	15.7	10.7	14.9	12.0	8.9	5.4	3.0	1.4	56.0
SG-02-S-C-121108	0.4	6.5	5.5	5.5	7.2	9.1	10.0	19.3	15.2	11.1	5.6	3.2	1.4	65.8
SG-03-S-C-121108	11.8	9.2	7.2	7.2	7.8	10.1	13.1	8.4	10.9	7.0	4.5	1.8	1.1	46.7
SG-04-S-C-121108	71.4	7.6	6.9	7.6	2.9	1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	2.5
SG-05-S-C-121108	3.1	2.9	5.3	11.1	14.3	15.2	7.7	16.0	9.9	7.1	4.3	1.9	1.3	48.1
SG-07-S-C-121108	0.5	2.7	3.1	6.3	24.4	18.9	11.0	12.1	7.9	5.9	3.8	2.5	0.9	44.1
SG-07-S-C-dup-121108	2.6	2.7	2.8	6.0	21.9	18.6	13.7	11.0	7.6	6.1	3.9	2.1	0.9	45.4
SG-08-S-C-121108	0.3	1.5	1.5	3.9	22.2	21.2	13.0	13.7	8.4	6.3	3.9	2.6	1.4	49.3
SG-09-S-C-121108	0.1	2.1	1.7	6.9	15.9	13.4	19.7	12.9	10.9	7.6	4.7	2.6	1.3	59.7

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

VR82

QA SUMMARY

Client:	Anchor GEA, LLC.	Client Project:	City of Kenmore Sediments
ARI Trip Sample ID:	VR82 E	Client Project No.:	120891-01.01
Client Trip Sample ID:	SG-06-S-C-121108	Batch No.:	VR82-1

Sample ID	Relative Standard Deviation, By Phi Size													
	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
SG-06-S-C-121108	100.0	100.0	100.0	92.6	86.0	79.8	71.1	55.2	46.6	31.0	18.9	11.2	4.8	1.6
AVE	100.0	100.0	99.8	92.8	86.5	81.7	72.7	56.9	46.4	30.6	18.3	9.5	4.2	1.4
STDEV	NA	100.0	100.0	92.0	85.9	80.5	71.8	56.0	45.4	30.5	18.5	9.7	4.3	1.4
%RSD	NA	0.00	0.14	0.43	0.31	0.97	0.77	0.87	0.64	0.28	0.32	0.92	0.33	0.13
		0.00	0.14	0.46	0.36	1.21	1.08	1.55	1.39	0.91	1.72	9.13	7.43	9.29

The Triplicate Applies To The Following Samples

Client ID	Date Sampled	Date Extracted	Date Complete	QA Ratio (95-105)	Data Qualifiers	Pipette Portion (5.0-25.0g)
SG-06-S-C-121108	11/8/2012	11/16/2012	11/24/2012	97.8		6.4
	11/8/2012	11/16/2012	11/24/2012	102.4		6.6
	11/8/2012	11/16/2012	11/24/2012	101.3		6.5
SG-02-S-C-121108	11/8/2012	11/16/2012	11/24/2012	100.9		7.1
SG-03-S-C-121108	11/8/2012	11/16/2012	11/24/2012	98.9		5.2
SG-04-S-C-121108	11/8/2012	11/16/2012	11/24/2012	99.5	SS	3.1
SG-05-S-C-121108	11/8/2012	11/16/2012	11/24/2012	101.4		7.4
SG-07-S-C-121108	11/8/2012	11/16/2012	11/24/2012	100.4		6.8
SG-07-S-C-dup-121108	11/8/2012	11/16/2012	11/24/2012	103.2		7.0
SG-08-S-C-121108	11/8/2012	11/16/2012	11/24/2012	102.4		8.4
SG-09-S-C-121108	11/8/2012	11/16/2012	11/24/2012	102.3		9.5

* ARI Internal QA limits = 95-105%

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

Analytical Resources, Inc.

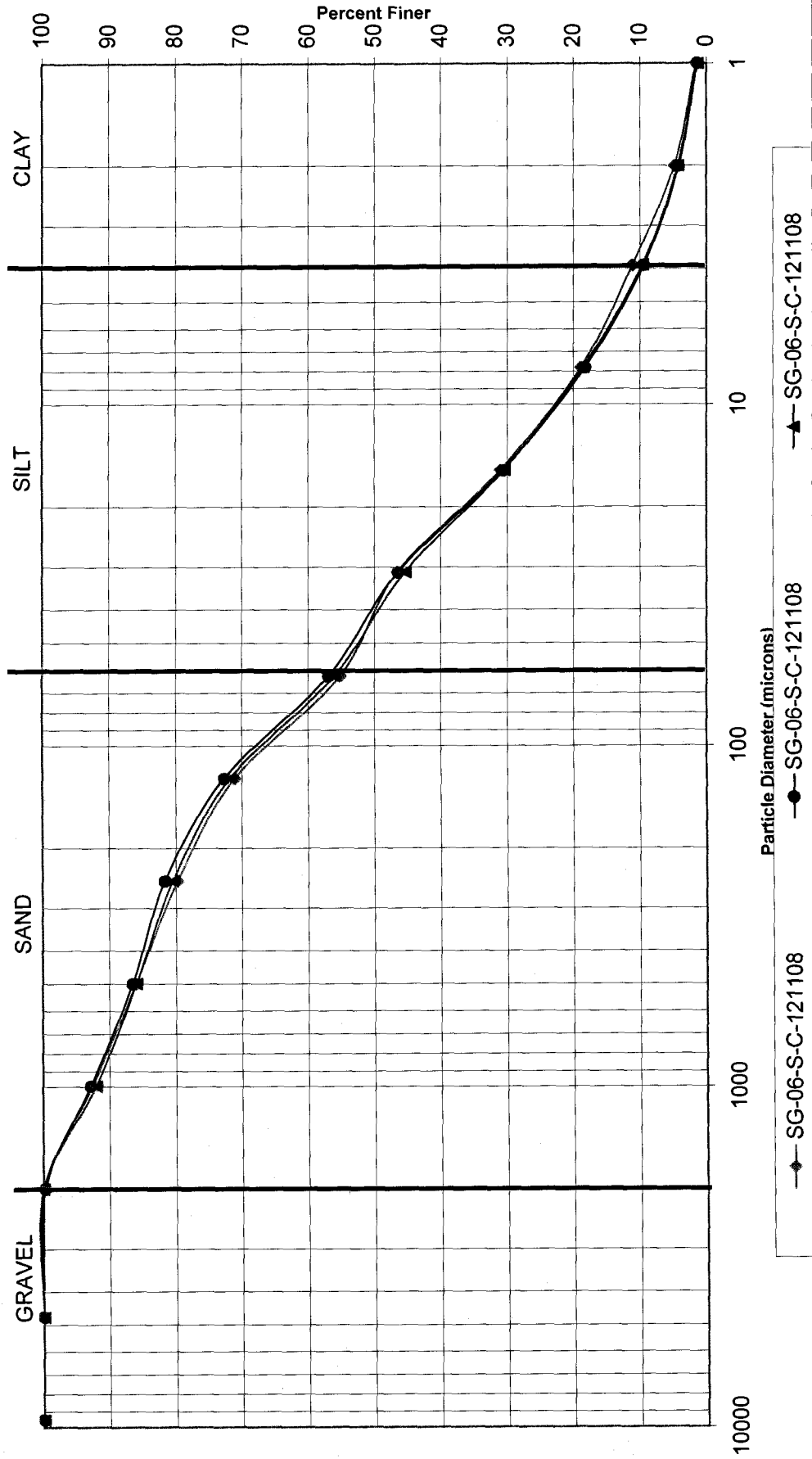
Geotechnical Data Qualifiers

PSEP Grain Size Analysis

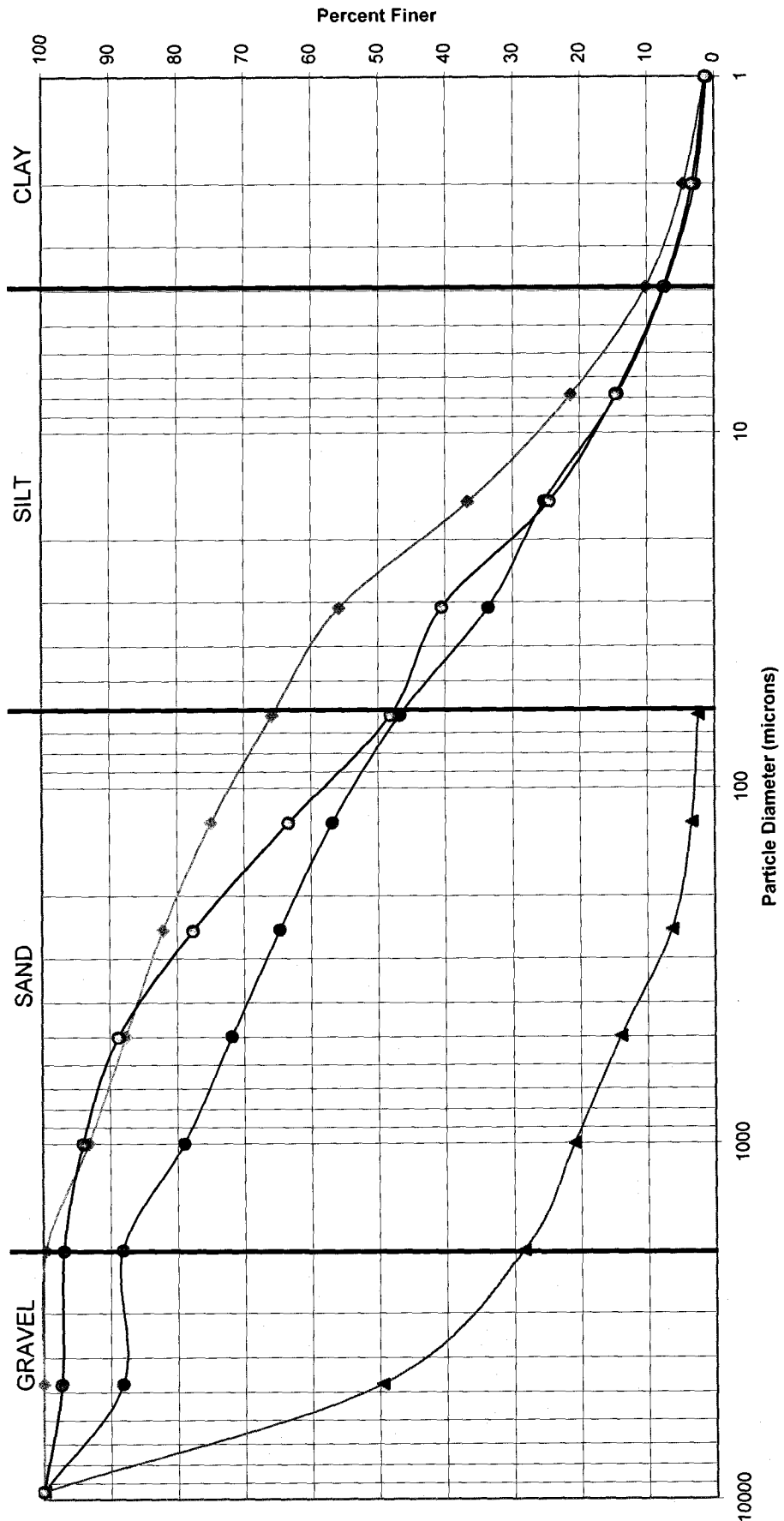
- SM** - The sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations.
- SS** - The sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis.
- W** - The weight of the sample in some pipette aliquots was below the level required for accurate weighing.
- F** - The samples were frozen prior to particle size determination.

PSEP Grain Size Distribution

Triplicate Sample Plot

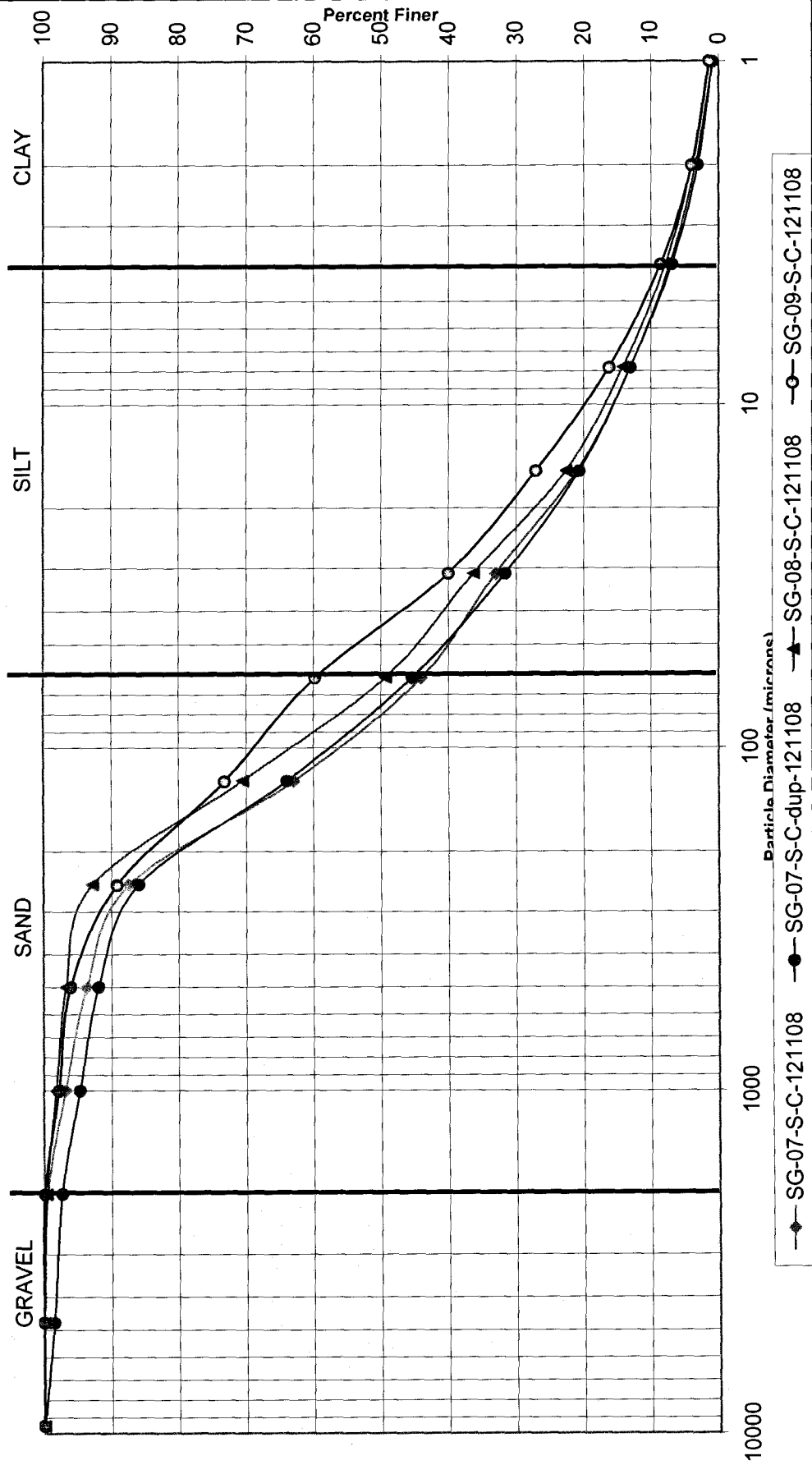


PSEP Grain Size Distribution



◆ SG-02-S-C-121108 ● SG-03-S-C-121108 ▲ SG-04-S-C-121108 ○ SG-05-S-C-121108

PSEP Grain Size Distribution



Total Solids

ARI Job ID: VR82

Extractions Total Solids-extts
Data By: Coung Truong
Created: 11/ 9/12

Worklist: 2934
Analyst: ALR
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. VR82A 12-22479 SG-02-S-C-121108	1.16	12.44	4.20	27.0	NR
2. VR82B 12-22480 SG-03-S-C-121108	1.16	12.16	3.89	24.8	NR
3. VR82C 12-22481 SG-04-S-C-121108	1.16	12.95	11.09	84.2	NR
4. VR82D 12-22482 SG-05-S-C-121108	1.16	12.59	5.03	33.9	NR
5. VR82E 12-22483 SG-06-S-C-121108	1.16	12.42	4.42	29.0	NR
6. VR82F 12-22484 SG-07-S-C-121108	1.17	12.59	5.18	35.1	NR
7. VR82G 12-22485 SG-07-S-C-dup-121108	1.17	12.53	5.33	36.6	NR
8. VR82H 12-22486 SG-08-S-C-121108	1.16	12.43	5.84	41.5	NR
9. VR82I 12-22487 SG-09-S-C-121108	1.15	12.75	5.36	36.3	NR

Extractions Total Solids-extts

Worklist: 2934

Data By: Coung Truong

Analyst: CT

Created: 11/ 9/12

Comments:

Oven ID: 015

Balance ID: B14642614

Samples In: Date: 11/9/12 Time: 12:00 Temp: 107 Analyst: CT

Samples Out: Date: 11/12/12 Time: 07:30 Temp: 106 Analyst: AL

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. VR82A 12-22479 SG-02-S-C-1211	1.16	12.44	4.20		NR
2. VR82B 12-22480 SG-03-S-C-1211	1.16	12.16	3.89		NR
3. VR82C 12-22481 SG-04-S-C-1211	1.16	12.95	11.09		NR
4. VR82D 12-22482 SG-05-S-C-1211	1.16	12.59	5.03		NR
5. VR82E 12-22483 SG-06-S-C-1211	1.16	12.42	4.42		NR
6. VR82F 12-22484 SG-07-S-C-1211	1.17	12.59	5.18		NR
7. VR82G 12-22485 SG-07-S-C-dup-1211	1.17	12.53	5.33		NR
8. VR82H 12-22486 SG-08-S-C-1211	1.16	12.43	5.84		NR
9. VR82I 12-22487 SG-09-S-C-1211	1.15	12.75	5.36		NR

Solids Data Entry Report
Date: 11/17/12

Checked by: CB Date: 11/17/12
Data Analyst: DM

Solids Determination performed on 11/16/12 by NB

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
VR82	A	SG-02-S-C-121108	0.964	10.220	3.167	23.80
VR82	B	SG-02-S-C-121108	0.948	10.565	3.149	22.89
VR82	C	SG-02-S-C-121108	0.988	10.771	8.887	80.74
VR82	D	SG-02-S-C-121108	0.985	10.790	4.108	31.85
VR82	E	SG-02-S-C-121108	0.998	10.594	3.735	28.52
VR82	F	SG-02-S-C-121108	1.010	10.425	4.161	33.47
VR82	G	SG-02-S-C-121108	0.952	10.018	4.033	33.98
VR82	H	SG-02-S-C-121108	0.988	10.699	4.860	39.87
VR82	I	SG-02-S-C-121108	0.954	10.322	4.096	33.54



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Total Solids Bench Sheet

Laboratory Section METALS

Oven Identification: 07

Balance ID: 8116132369

Samples in Oven: Date: 11-16-12 Time: 1532 Temp: 108°C Analyst: NB

Removed from Oven: Date: 11-17-12 Time: 0815 Temp: 103°C Analyst: DM

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Date & Time Last Weight	Final Weighting >12 hrs ¹
VR58 A	0.988	10.806	6.354	—	✓
" B	1.011	10.524	2.538	—	✓
" C	1.003	10.046	3.415	—	✓
" D	0.983	10.092	2.942	—	✓
" E	0.989	10.124	2.992	—	✓
" F	0.986	10.548	5.026	—	✓
" G	0.971	10.471	7.781	—	✓
" H	0.971	10.249	8.190	—	✓
" I	1.006	10.309	5.193	—	✓
" J	0.996	10.179	7.928	—	✓
VR82 A	0.964	10.220	3.167	—	✓
" B	0.948	10.565	3.149	—	✓
" C	0.988	10.771	8.887	—	✓
" D	0.985	10.790	4.108	—	✓
" E	0.998	10.594	3.735	—	✓
" F	1.010	10.425	4.161	—	✓
" G	0.952	10.018	4.093	—	✓
" H	0.988	10.699	4.860	—	✓
" I	0.954	10.322	4.096	—	✓
		NB			
		11-16-12			

1) Place a check mark in this column if samples have dried > 12 but < 24 hours. When samples have been at 104°C < 12 hours, constant weight must be verified as described in SOP 10023S. Use a 2nd bench sheet for additional weightings.

Total Solids Targets-Extractions
Data By: Steve Potter
Created: 11/13/12

Worklist: 3897
Analyst: SDP
Comments:

ARI ID	Target Dry Wt (g)	Total Solids	Min Wet Wt (g)
1. VR82A	10.00	27.0	37.04
2. VR82B	10.00	24.8	40.32
3. VR82C	10.00	84.2	11.88
4. VR82D	10.00	33.9	29.50
5. VR82E	10.00	29.0	34.48
6. VR82F	10.00	35.1	28.49
7. VR82G	10.00	36.6	27.32
8. VR82H	10.00	41.5	24.10
9. VR82I	10.00	36.3	27.55

**Semivolatile Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: VR82



Preparation Test BAN PSDDA # 6 (BANSNDMP)

PSDDA (20ppb)

ARI Job No(s) VR82

Page 1 of 1

Batch set up by: P

Bottle #	Extraction Requirements	Weight Extracted (eq. to 10g dry wt)	(Opt/REQ) GPC (1:1) 1 or 2 Y/N	Final Effective Volume	Volume to Lab	Comments	Verify Client ID Analyst/Date
	VR82 MBS	10g	(1:1) Y/N	1mL	1mL	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks)	NQ 11/14/12 Microwave
	↓ SBS	10g	(1:1) Y/N	1mL	1mL	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks)	NG 11/14/12
	SBS Dup.	10g	(1:1) Y/N	1mL	1mL	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks)	
4	VR82 A ^{ets}	10g 38.12	(1:1) Y/N	1mL	1mL	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks)	KD 80-85°C
4	B	41.06	(1:1) Y/N	1mL	1mL		RR 11/26/12
4	C	12.11	(1:1) Y/N	1mL	1mL		Analyst/Date
4	CMS	12.19	(1:1) Y/N	1mL	1mL		TurboVap 123
4	CMSD	12.11	(1:1) Y/N	1mL	1mL		CSZ 11/27/12 Analyst/Date
4	D	30.10	(1:1) Y/N	1mL	1mL		GPC Prep Filter (1:1)
4	E	35.18	(1:1) Y/N	1mL	1mL		CSZ 11/27/12 Analyst/Date
4	F	29.89	(1:1) Y/N	1mL	1mL		Post GPC KD 80-85°C
4	G	28.13	(1:1) Y/N	1mL	1mL		RR 11/28/12 Analyst/Date
4	H	25.06	(1:1) Y/N	1mL	1mL		
4	↓ I	28.06	(1:1) Y/N	1mL	1mL		TurboVap 123
Analyst/Date			CSZ	11-28-12	11-28-12		11-28-12 Analyst/Date

Standard	Standard ID	Concentration	Volume	Expiration Date	Analyst	Witness
Surrogate	A (2032-1)	100/150µg/mL	50µL	7/2/13	NG	JH
Full List Spike (Freezer)	7 (2017-2)	100µg/mL	50µL	3/14/13	NG	JH
Base Spike 2029-4	56 (1978-2)	200µg/mL	50µL	11/17/12 2/4/13	NG	JH
Benzidine Spike	39 ()	500µg/mL	50µL			
Acid Spike	38 (2024-3)	100/200µg/mL	50µL	4/11/13	NG	JH
QLS Spike (14 in freezer)	14 ()	10-100µg/mL	20µL			

Extraction Time: 11:45

Balance ID: B139298002

- SPECIAL INSTRUCTIONS: Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. Note: do not fill vessel more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 DCM/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in cold water. 7. Decant 1:1 DCM/ACE into Erlenmeyer flask with sodium sulfate in the bottom and funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using DCM only (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD (small/large drying column with pre-deactivated glasswool-Blanks=5g of sulfate) to 5mL at 80- 85°C. 12. GPC Optional. 13. TurboVap. 14. IF NO GPC: TurboVap to 3mL add 2mL Hexane. TurboVap to Final Volume and vial in DCM. 15. (After GPC): KD at 80-85°. 16. TurboVap. 17. Vial in DCM.

A. Need Total Solids Y/N

B. Archive/Freeze Y/N

22487

VR82 : 00257



ARI Job No.: VR 82

Client ID: Ancher OEA, LLC

Parameter: BAN PSDDA

Client Project: City of Kenmore Sediments

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>ABCDEFGHIJ</u>	<u>ET 11/1/12</u>
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>ABCDEFGHIJ</u>	<u>CT 11/9/12</u>
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>Small rocks 10% c.</u>	<u>CT 11/9/12</u>
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). (Centrifuge#1 used for all Centrifugations)	

**Semivolatile Raw Data
Initial Calibration**

ARI Job ID: VR82



GC/MS, SVOA Initial Calibration Notes

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Instrument: NT-4 NT-6 NT-8 NT-10 NT11 NT12

Curve Date(s): 11/29/12 Internal Standard ID 1998-2 Expiration 7/03/13

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Minimum Response Factors Met/	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO	ICV Exceeding ±20%?	YES / NO
Peak Tailing Factor ≤2?	<u>YES</u> / NO	ICV Exceeding ±30%?	<u>YES</u> / NO
ICal Meets %RSD & r ² Criteria?	<u>YES</u> / NO	Linear Fits Used?	<u>YES</u> / NO
Q flag applied?	<u>YES</u> / NO	Quadratic Fits Used?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Calibration Points Dropped?	<u>YES</u> / NO
Spectral Library Updated?	<u>YES</u> / NO		

Primary Source	Standard #	Expiration	Secondary Source	Standard #	Expiration
<u>Supelco</u>	1948-2 <u>1950-1</u>	<u>12/19/12</u>	<u>UHS</u>	<u>2001-1</u>	<u>09/05/13</u>
	<u>1996-2</u>	<u>01/26/13</u>		<u>2002-1</u>	<u>01/10/13</u>
	<u>1998-4</u>	<u>01/02/13</u>		<u>2003-1</u>	<u>01/10/13</u>
	<u>2036-2</u>	<u>02/07/13</u>			

Detail problems, corrective actions and/or other pertinent information below:

*Curve cannot use for Benzidine
6 points curve: 0.2, 0.5, 1.0, 2.5, 5.0, 10.0.*

Benzoic Acid, 2,4 Dinitrophenol - quadratic fit.

ICV - Benzyl AC, 2,2-oxybis, 4-Methylphenol, 2-Nitroanisole, 3-Nitroaniline, 3,3-Dimethylbenzidine, Pyridine, Picric acid exceeding ± 80% D

Analyst: YB Date: 12/01/12

Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 11/29/12 Analysis: APN Analyst: YZ
 GC Program: APN2 Column No: 247357 Column Type: 205ms
 Instrument Tune (.U or .CT.): H1216-12.1128 EM Voltage: 1729
 Calibration File: DE 1129 Curve Date: 11/29/12 Injection Vol.: 1.0

IS/SS	Ical/Ccal	LCS/ICV
1998-2	1998-2	
	1986-2	
	1998-4	
	2006-2	

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20121129.b

Time	Filename	LabID	ClientID	DF
1 0938	df1129.d	DFTPP	DFTPP	1 NO ISTDs FOUND
2 0954	ic1129a.d	APN 5		1 0.94 81571 11.59 299399 15.48 178564 18.75 309410 23.82 323853 26.26 305316 24.92 427848
3 1110	ic1129c.d	APN0 2		1 0.95 83249 11.60 309486 15.49 189575 18.76 219035 23.82 350482 26.26 333861 24.92 447487
4 1224	ic1129d.d	APN1		1 0.95 80400 11.60 298996 15.49 185582 18.76 311338 23.83 347341 26.26 340415 24.92 441093
5 1302	ic1129e.d	APN10		1 0.95 81024 11.60 289550 15.49 161271 18.76 316450 23.83 375349 26.26 320675 24.92 450766
6 1416	ic1129g.d	APN2.5		1 0.95 78814 11.60 290366 15.49 180347 18.76 305764 23.84 327280 26.28 330902 24.93 429286
7 1530	ic1129i.d	APN0.5		1 0.95 81366 11.60 295539 15.49 182776 18.76 317404 23.84 347450 26.28 340912 24.93 421593
8 1607	icv1129.d	ICV1129		1 0.95 77158 11.60 295164 15.49 179902 18.76 312760 23.84 331330 26.28 333901 24.94 438545
9 1644	vs96r.d	VS96R	IM-04-AG1?	1 0.95 76110 11.59 292597 15.49 173837 18.76 292542 23.84 322420 26.28 305076 24.94 400844
10 1721	vs96s.d	VS96S	IM-04-AG02	1 0.95 80749 11.59 300258 15.49 181859 20.76 300193 23.84 334490 26.28 320928 24.94 413105
11 1758	vs96t.d	VS96T	IM-04-AG01	1 0.95 74380 11.60 281369 15.49 166716 18.76 276728 23.84 295189 26.28 284504 24.94 377323
12 1835	vs96tms.d	VS96TMS	IM-04-AG01 M	1 0.95 75978 11.60 293611 15.50 169495 18.77 276478 23.84 308022 26.28 297026 24.94 396738
13 1912	vs96tmsd.d	VS96TMSD	IM-04-AG01 M	1 0.95 69512 11.60 269327 15.50 158020 18.76 252330 23.84 283645 26.28 268063 24.94 354417
14 1949	vs96d1.d	VS96D	IM-01-CH	3 0.95 75830 11.60 288021 15.50 188448 18.78 200846 23.89 151135 26.34 147470 24.98 176503
15 2026	vs96k3.d	VS96K	IM-03-CH	3 0.95 34864 11.60 144281 15.50 156947 18.79 146765 23.89 180028 26.43 152585 28.03 183247
16 2103	vs96l3.d	VS96L	IM-03-TSTA	3 0.95 25149 11.60 84874 15.50 51659 18.78 120556 23.87 176698 24.97 212506 26.33 187705
17 2140	vs96q3.d	VS96Q	IM-04-CH	3 0.95 23728 11.60 96898 15.50 79292 18.79 110745 23.88 160210 24.97 188865 26.35 175993

YZ 0/04/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: ic1129a ic1129b ic1129c ic1129d ic1129e ic1129f
INJ.DATE: 29-NOV-2012 29-NOV-2012 29-NOV-2012 29-NOV-2012 29-NOV-2012 29-NOV-2012
INJ.TIME: 09:54 11:10 12:24 13:02 14:16 15:30

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2-Fluorophenol	6.613	6.621	6.621	6.621	6.621	6.621	6.613	3.613-9.613	6.619	0.003
186 Carbaryl	++++	++++	++++	++++	++++	++++	18.785	15.785-21.785	++++	++++
179 n-Decane	++++	++++	++++	++++	++++	++++	8.645	5.645-11.645	++++	++++
180 n-Octadecane	++++	++++	++++	++++	++++	++++	17.455	14.455-20.455	++++	++++
169 4-tert-Butylphenol	++++	++++	++++	++++	++++	++++	20.696	17.696-23.696	++++	++++
170 N,N-Dimethylaniline	++++	++++	++++	++++	++++	++++	19.219	16.219-22.219	++++	++++
171 2,3-Dimethylaniline	++++	++++	++++	++++	++++	++++	19.559	16.559-22.559	++++	++++
172 2,4-Dimethylaniline	++++	++++	++++	++++	++++	++++	19.559	16.559-22.559	++++	++++
173 2,5-Dimethylaniline	++++	++++	++++	++++	++++	++++	22.949	19.949-25.949	++++	++++
174 2,6-Dimethylaniline	++++	++++	++++	++++	++++	++++	19.195	16.195-22.195	++++	++++
175 3,4-Dimethylaniline	++++	++++	++++	++++	++++	++++	19.559	16.559-22.559	++++	++++
176 3,5-Dimethylaniline	++++	++++	++++	++++	++++	++++	20.503	17.503-23.503	++++	++++
177 p-Benzquinone	++++	++++	++++	++++	++++	++++	7.827	4.827-10.827	++++	++++
168 Pentachlorobenzene	++++	++++	++++	++++	++++	++++	15.842	12.842-18.842	++++	++++
145 4,4'-DDE	++++	++++	++++	++++	++++	++++	47.212	44.212-50.212	++++	++++
146 4,4'-DDD	++++	++++	++++	++++	++++	++++	47.746	44.746-50.746	++++	++++
147 4,4'-DDT	++++	++++	++++	++++	++++	++++	48.216	45.216-51.216	++++	++++

Reviewer 1 YZ Date: 12/01/12
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	++++	++++	++++	++++	++++	++++	47.281	44.281-50.281	++++	++++
149 TCMX	++++	++++	++++	++++	++++	++++	43.387	40.387-46.387	++++	++++
150 DCBP	++++	++++	++++	++++	++++	++++	50.989	47.989-53.989	++++	++++
138 Chlorobenzilate	++++	++++	++++	++++	++++	++++	67.733	64.733-70.733	++++	++++
139 Isodrin	++++	++++	++++	++++	++++	++++	65.067	62.067-68.067	++++	++++
140 Diallate A	++++	++++	++++	++++	++++	++++	65.487	62.487-68.487	++++	++++
141 Diallate B	++++	++++	++++	++++	++++	++++	65.487	62.487-68.487	++++	++++
142 1,2-Dibromo-3-Chloropr	++++	++++	++++	++++	++++	++++	49.917	46.917-52.917	++++	++++
135 2,3,5,6-Tetrachlorophe	++++	++++	++++	++++	++++	++++	16.383	13.383-19.383	++++	++++
136 2,3,4,5-tetrachlorophe	++++	++++	++++	++++	++++	++++	39.317	36.317-42.317	++++	++++
§ 137 d8-1,4-Dioxane	++++	++++	++++	++++	++++	++++	2.445	0.000-5.445	++++	++++
* 134 Di-n-octylphthalate-d4	24.917	24.917	24.917	24.924	24.932	24.932	24.917	21.917-27.917	24.923	0.008
133 Butylatedhydroxytoluen	++++	++++	++++	++++	++++	++++	15.571	12.571-18.571	++++	++++
132 3,6-Dimethylphenanthre	++++	++++	++++	++++	++++	++++	65.450	62.450-68.450	++++	++++
131 1-Methylphenanthrene	++++	++++	++++	++++	++++	++++	64.400	61.400-67.400	++++	++++
130 Dibenzothiophene	++++	++++	++++	++++	++++	++++	62.100	59.100-65.100	++++	++++
129 1-Methylfluorene	++++	++++	++++	++++	++++	++++	54.912	51.912-57.912	++++	++++
128 N-Hexadecane	++++	++++	++++	++++	++++	++++	54.212	51.212-57.212	++++	++++
127 2-Isopropynaphthalene	++++	++++	++++	++++	++++	++++	57.650	54.650-60.650	++++	++++
126 N-Tetradecane	++++	++++	++++	++++	++++	++++	56.750	53.750-59.750	++++	++++
144 alpha-Terpineol	++++	++++	++++	++++	++++	++++	11.447	8.447-14.447	++++	++++
125 Safrole	++++	++++	++++	++++	++++	++++	52.166	49.166-55.166	++++	++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	++++	++++	++++	++++	++++	++++	50.617	47.617-53.617	++++	++++
123 Acetophenone	++++	++++	++++	++++	++++	++++	10.252	7.252-13.252	++++	++++
122 Furfuraldehyde	++++	++++	++++	++++	++++	++++	43.467	40.467-46.467	++++	++++
143 1,4-Dioxane	++++	++++	++++	++++	++++	++++	2.697	0.000-5.697	++++	++++
121 Quinoline	++++	++++	++++	++++	++++	++++	54.500	51.500-57.500	++++	++++
120 2,3,4,6-Tetrachlorophe	16.284	++++	++++	16.307	++++	++++	16.284	13.284-19.284	16.295	0.016
178 2-Benzyl-4-Chloropheno	++++	++++	++++	++++	++++	++++	18.963	15.963-21.963	++++	++++
119 7,12-Dimethylbenz (a) an	++++	++++	++++	++++	++++	++++	47.069	44.069-50.069	++++	++++
118 Triphenyl Phosphate	++++	++++	++++	++++	++++	++++	21.215	18.215-24.215	++++	++++
117 Butyl Diphenyl Phospha	++++	++++	++++	++++	++++	++++	16.761	13.761-19.761	++++	++++
116 Dibutyl Phenyl Phospha	++++	++++	++++	++++	++++	++++	18.747	15.747-21.747	++++	++++
115 Tributyl Phosphate	++++	++++	++++	++++	++++	++++	16.923	13.923-19.923	++++	++++
114 Beta-Pinene	++++	++++	++++	++++	++++	++++	48.950	45.950-51.950	++++	++++
113 Diphenyl Oxide	++++	++++	++++	++++	++++	++++	14.341	11.341-17.341	++++	++++
112 Biphenyl	++++	++++	++++	++++	++++	++++	14.085	11.085-17.085	++++	++++
111 Azobenzene (1,2-DP-Hyd	17.041	17.041	17.041	17.056	17.049	17.049	17.049	14.049-20.049	17.046	0.006
110 Tetrachloroguaiacol	++++	++++	++++	++++	++++	++++	16.576	13.576-19.576	++++	++++
109 3,4,5-Trichloroguaiaco	++++	++++	++++	++++	++++	++++	14.525	11.525-17.525	++++	++++
181 3,4,6-Trichloroguaiaco	++++	++++	++++	++++	++++	++++	14.852	11.852-17.852	++++	++++
108 4,5,6-Trichloroguaiaco	++++	++++	++++	++++	++++	++++	16.661	13.661-19.661	++++	++++
184 3,4-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	12.870	9.870-15.870	++++	++++
107 4,5-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	13.691	10.691-16.691	++++	++++
182 4,6-Dichloroguaiacol	++++	++++	++++	++++	++++	++++	13.691	10.691-16.691	++++	++++
185 4-Chloroguaiacol	++++	++++	++++	++++	++++	++++	11.093	8.093-14.093	++++	++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	++++	++++	++++	++++	++++	++++	9.243	6.243-12.243	++++	++++
105 1-methylnaphthalene	13.375	13.382	13.383	13.382	13.383	13.383	13.375	10.375-16.375	13.381	0.003
151 1,2,4,5-Tetrachloroben	++++	++++	++++	++++	++++	++++	11.499	8.499-14.499	++++	++++
152 Benzo(e)pyrene	++++	++++	++++	++++	++++	++++	30.943	27.943-33.943	++++	++++
153 Chlorpyrifos	++++	++++	++++	++++	++++	++++	27.642	24.642-30.642	++++	++++
154 Diazinon	++++	++++	++++	++++	++++	++++	25.953	22.953-28.953	++++	++++
155 Kelthane	++++	++++	++++	++++	++++	++++	27.750	24.750-30.750	++++	++++
156 Methyl Parathion	++++	++++	++++	++++	++++	++++	26.464	23.464-29.464	++++	++++
157 Ethyl Parathion	++++	++++	++++	++++	++++	++++	27.099	24.099-30.099	++++	++++
158 Ethion	++++	++++	++++	++++	++++	++++	24.513	21.513-27.513	++++	++++
159 4-Nonylphenol	++++	++++	++++	++++	++++	++++	25.132	22.132-28.132	++++	++++
160 Tetraethyl Tin	++++	++++	++++	++++	++++	++++	19.528	16.528-22.528	++++	++++
161 1,2,3-Trichloronaphtha	++++	++++	++++	++++	++++	++++	36.246	33.246-39.246	++++	++++
162 1,2,3,4-Tetrachloronap	++++	++++	++++	++++	++++	++++	37.506	34.506-40.506	++++	++++
163 1,2,3,5,8-Pentachloron	++++	++++	++++	++++	++++	++++	38.893	35.893-41.893	++++	++++
164 1,2,3,4,6,7-Hexachloro	++++	++++	++++	++++	++++	++++	39.681	36.681-42.681	++++	++++
165 1,2,3,4,5,6,7-Heptachl	++++	++++	++++	++++	++++	++++	41.123	38.123-44.123	++++	++++
166 Octachloronaphthalene	++++	++++	++++	++++	++++	++++	42.253	39.253-45.253	++++	++++
167 2,2',4,4',5-Pentabromo	++++	++++	++++	++++	++++	++++	42.033	39.033-45.033	++++	++++
\$ 2 Phenol-d5	8.305	8.313	8.313	8.321	8.313	8.313	8.305	5.305-11.305	8.313	0.005
3 Phenol	8.328	8.336	8.336	8.344	8.336	8.336	8.328	5.328-11.328	8.336	0.005
4 Bis(2-Chloroethyl)ethe	8.475	8.491	8.491	8.491	8.491	8.483	8.483	5.483-11.483	8.487	0.006
\$ 5 2-Chlorophenol-d4	8.560	8.568	8.568	8.576	8.568	8.568	8.560	5.560-11.560	8.568	0.005

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
6 2-Chlorophenol	8.591	8.599	8.599	8.599	8.599	8.591	8.591	5.591-11.591	8.596	0.004
7 1,3-Dichlorobenzene	8.869	8.877	8.877	8.877	8.877	8.877	8.869	5.869-11.869	8.876	0.003
* 8 1,4-Dichlorobenzene-d4	8.939	8.947	8.947	8.947	8.947	8.947	8.939	5.939-11.939	8.946	0.003
9 1,4-Dichlorobenzene	8.970	8.978	8.978	8.986	8.978	8.978	8.970	5.970-11.970	8.978	0.005
\$ 10 1,2-Dichlorobenzene-d4	9.319	9.327	9.327	9.335	9.327	9.327	9.319	6.319-12.319	9.327	0.005
11 Benzyl alcohol	9.249	9.257	9.257	9.265	9.257	9.257	9.249	6.249-12.249	9.257	0.005
12 1,2-Dichlorobenzene	9.343	9.358	9.358	9.358	9.358	9.351	9.343	6.343-12.343	9.354	0.007
13 2-Methylphenol	9.506	9.521	9.514	9.521	9.514	9.514	9.506	6.506-12.506	9.515	0.006
14 2,2'-oxybis(1-Chloropr	10.910	10.925	10.925	10.933	10.918	10.918	10.918	7.918-13.918	10.921	0.008
15 4-Methylphenol	9.793	9.816	9.816	9.816	9.816	9.816	9.793	6.793-12.793	9.812	0.010
16 N-Nitroso-di-n-propyla	9.847	9.855	9.855	9.863	9.855	9.855	9.855	6.855-12.855	9.855	0.005
17 Hexachloroethane	9.971	9.979	9.987	9.987	9.979	9.979	9.971	6.971-12.971	9.981	0.006
\$ 18 Nitrobenzene-d5	10.103	10.119	10.119	10.119	10.111	10.111	10.103	7.103-13.103	10.114	0.006
19 Nitrobenzene	10.142	10.158	10.150	10.158	10.150	10.150	10.150	7.150-13.150	10.151	0.006
20 Isophorone	10.631	10.647	10.647	10.654	10.639	10.639	10.639	7.639-13.639	10.643	0.008
21 2-Nitrophenol	10.817	10.833	10.825	10.833	10.825	10.825	10.825	7.825-13.825	10.826	0.006
22 2,4-Dimethylphenol	10.910	10.925	10.918	10.933	10.918	10.918	10.910	7.910-13.910	10.920	0.008
23 Bis(2-Chloroethoxy)met	11.118	11.126	11.126	11.133	11.126	11.118	11.118	8.118-14.118	11.124	0.006
24 Benzoic acid	11.187	11.041	11.087	11.280	11.133	11.056	11.187	8.187-14.187	11.131	0.090
25 2,4-Dichlorophenol	11.310	11.326	11.326	11.326	11.318	11.318	11.318	8.318-14.318	11.321	0.006
26 1,2,4-Trichlorobenzene	11.495	11.519	11.519	11.519	11.519	11.519	11.495	8.495-14.495	11.515	0.009
* 27 Naphthalene-d8	11.588	11.596	11.596	11.596	11.596	11.596	11.588	8.588-14.588	11.595	0.003
28 Naphthalene	11.627	11.642	11.642	11.642	11.634	11.634	11.627	8.627-14.627	11.637	0.006
29 4-Chloroaniline	11.789	11.804	11.804	11.812	11.797	11.797	11.797	8.797-14.797	11.800	0.008

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
30 Hexachlorobutadiene	12.036	12.044	12.044	12.051	12.044	12.044	12.036	9.036-15.036	12.044	0.005
31 4-Chloro-3-methylpheno	12.864	12.872	12.872	12.879	12.872	12.872	12.872	9.872-15.872	12.872	0.005
32 2-Methylnaphthalene	13.135	13.142	13.143	13.150	13.143	13.143	13.135	10.135-16.135	13.143	0.005
33 Hexachlorocyclopentadi	13.646	13.661	13.661	13.661	13.661	13.661	13.661	10.661-16.661	13.658	0.006
34 2,4,6-Trichlorophenol	13.824	13.831	13.831	13.839	13.831	13.831	13.831	10.831-16.831	13.831	0.005
35 2,4,5-Trichlorophenol	13.901	13.909	13.909	13.916	13.909	13.917	13.917	10.917-16.917	13.910	0.006
36 2-Fluorobiphenyl	13.994	14.002	14.002	14.009	14.002	14.009	13.994	10.994-16.994	14.003	0.006
37 2-Chloronaphthalene	14.203	14.210	14.211	14.218	14.211	14.211	14.211	11.211-17.211	14.211	0.005
38 2-Nitroaniline	14.505	14.512	14.505	14.520	14.512	14.512	14.512	11.512-17.512	14.511	0.006
39 Dimethylphthalate	14.992	15.000	15.000	15.008	15.000	15.000	14.992	11.992-17.992	15.000	0.005
40 Acenaphthylene	15.131	15.139	15.139	15.147	15.147	15.147	15.131	12.131-18.131	15.142	0.006
41 2,6-Dinitrotoluene	15.124	15.131	15.132	15.139	15.139	15.139	15.139	12.139-18.139	15.134	0.006
* 42 Acenaphthene-d10	15.480	15.488	15.488	15.488	15.488	15.488	15.480	12.480-18.480	15.486	0.003
43 3-Nitroaniline	15.426	15.433	15.434	15.449	15.434	15.434	15.434	12.434-18.434	15.435	0.008
44 Acenaphthene	15.549	15.557	15.557	15.565	15.557	15.557	15.549	12.549-18.549	15.557	0.005
45 2,4-Dinitrophenol	15.658	15.665	15.658	15.681	15.665	15.665	15.665	12.665-18.665	15.665	0.008
46 Dibenzofuran	15.905	15.913	15.913	15.920	15.921	15.913	15.905	12.905-18.905	15.914	0.006
47 4-Nitrophenol	15.828	15.843	15.828	15.843	15.835	15.836	15.836	12.836-18.836	15.835	0.007
48 2,4-Dinitrotoluene	15.998	15.998	16.006	16.013	16.006	16.006	16.006	13.006-19.006	16.004	0.006
49 Fluorene	16.670	16.678	16.678	16.686	16.686	16.686	16.670	13.670-19.670	16.681	0.006
50 Diethylphthalate	16.577	16.585	16.585	16.601	16.593	16.585	16.577	13.577-19.577	16.588	0.008
51 4-Chlorophenyl-phenyle	16.694	16.701	16.694	16.701	16.701	16.701	16.701	13.701-19.701	16.699	0.004
52 4-Nitroaniline	16.802	16.802	16.802	16.825	16.810	16.802	16.802	13.802-19.802	16.807	0.009
53 4,6-Dinitro-2-methylph	16.902	16.902	16.902	16.925	16.910	16.910	16.910	13.910-19.910	16.909	0.009

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
54 N-Nitrosodiphenylamine	16.964	16.972	16.972	16.987	16.979	16.979	16.964	13.964-19.964	16.975	0.008
55 2,4,6-Tribromophenol	17.257	17.265	17.257	17.272	17.265	17.265	17.257	14.257-20.257	17.263	0.006
56 4-Bromophenyl-phenylet	17.773	17.781	17.774	17.781	17.781	17.789	17.789	14.789-20.789	17.780	0.006
57 Hexachlorobenzene	18.090	18.098	18.098	18.106	18.106	18.106	18.090	15.090-21.090	18.100	0.006
58 Pentachlorophenol	18.493	18.501	18.501	18.508	18.508	18.508	18.493	15.493-21.493	18.503	0.006
* 59 Phenanthrene-d10	18.748	18.756	18.756	18.764	18.764	18.764	18.748	15.748-21.748	18.759	0.006
60 Phenanthrene	18.802	18.802	18.802	18.810	18.810	18.810	18.802	15.802-21.802	18.808	0.006
61 Anthracene	18.895	18.903	18.903	18.911	18.911	18.911	18.895	15.895-21.895	18.906	0.006
62 Carbazole	19.259	19.266	19.259	19.267	19.274	19.274	19.274	16.274-22.274	19.267	0.007
63 Di-n-butylphthalate	20.118	20.125	20.125	20.125	20.133	20.133	20.118	17.118-23.118	20.127	0.006
64 Fluoranthene	21.216	21.216	21.216	21.224	21.224	21.232	21.216	18.216-24.216	21.221	0.006
65 Pyrene	21.634	21.634	21.634	21.642	21.650	21.650	21.634	18.634-24.634	21.641	0.008
\$ 66 Terphenyl-d14	21.951	21.959	21.959	21.959	21.967	21.967	21.951	18.951-24.951	21.960	0.006
67 Butylbenzylphthalate	22.896	22.903	22.904	22.903	22.911	22.919	22.896	19.896-25.896	22.906	0.008
68 Benzo(a)anthracene	23.794	23.794	23.794	23.809	23.810	23.810	23.794	20.794-26.794	23.802	0.009
* 69 Chrysene-d12	23.825	23.825	23.825	23.833	23.841	23.841	23.825	20.825-26.825	23.832	0.008
70 3,3'-Dichlorobenzidine	23.771	23.771	23.771	23.779	23.786	23.786	23.786	20.786-26.786	23.777	0.008
71 Chrysene	23.864	23.864	23.864	23.879	23.879	23.879	23.864	20.864-26.864	23.872	0.009
72 bis(2-Ethylhexyl)phtha	23.941	23.941	23.941	23.941	23.957	23.957	23.941	20.941-26.941	23.946	0.008
73 Di-n-octylphthalate	24.924	24.924	24.924	24.932	24.940	24.940	24.924	21.924-27.924	24.931	0.008
74 Benzo(b)fluoranthene	25.582	25.582	25.582	25.590	25.598	25.598	25.598	22.598-28.598	25.589	0.008
75 Benzo(k)fluoranthene	25.621	25.621	25.621	25.629	25.637	25.637	25.637	22.637-28.637	25.628	0.008
187 Total Benzo(a)fluoranthene	25.621	25.582	25.621	25.629	25.637	25.637	25.621	22.621-28.621	25.621	0.020
76 Benzo(a)pyrene	26.155	26.155	26.155	26.163	26.171	26.171	26.155	23.155-29.155	26.162	0.008

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20121129.b/ABN.m
Batch File: /chem1/nt10.i/20121129.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 77 Perylene-d12	26.256	26.256	26.256	26.264	26.279	26.279	26.256	23.256-29.256	26.265	0.011
78 Indeno(1,2,3-cd)pyrene	28.573	28.573	28.573	28.589	28.605	28.605	28.573	25.573-31.573	28.586	0.015
79 Dibenzo(a,h)anthracene	28.597	28.597	28.589	28.620	28.636	28.636	28.597	25.597-31.597	28.612	0.021
80 Benzo(g,h,i)perylene	29.257	29.249	29.249	29.272	29.288	29.280	29.257	26.257-32.257	29.266	0.017
\$ 85 p-Cresol-d4	++++	++++	++++	++++	++++	++++	51.633	48.633-54.633	++++	++++
\$ 86 Anthracene-d10	++++	++++	++++	++++	++++	++++	63.533	60.533-66.533	++++	++++
\$ 87 Fluoranthene-d10	++++	++++	++++	++++	++++	++++	60.273	57.273-63.273	++++	++++
\$ 88 Dibenz(a,h)anthracene-	++++	++++	++++	++++	++++	++++	78.600	75.600-81.600	++++	++++
\$ 89 Diphenyl-d10	++++	++++	++++	++++	++++	++++	50.841	47.841-53.841	++++	++++
90 N-Nitrosodimethylamine	4.358	4.366	4.366	4.373	4.366	4.374	4.374	1.374-7.374	4.367	0.006
91 Aniline	8.367	8.383	8.383	8.383	8.375	8.375	8.375	5.375-11.375	8.377	0.006
92 1,2-Diphenylhydrazine	++++	++++	++++	++++	++++	++++	56.160	53.160-59.160	++++	++++
93 Benzidine	21.479	21.487	21.479	21.487	21.495	21.495	21.495	18.495-24.495	21.487	0.007
\$ 95 D10-1-methylnaphthalen	++++	++++	++++	++++	++++	++++	52.075	49.075-55.075	++++	++++
96 p-Cymene	++++	++++	++++	++++	++++	++++	49.250	46.250-52.250	++++	++++
97 Caffeine	++++	++++	++++	++++	++++	++++	61.202	58.202-64.202	++++	++++
98 Retene	++++	++++	++++	++++	++++	++++	22.044	19.044-25.044	++++	++++
99 Perylene	26.310	26.302	26.303	26.318	26.326	26.326	26.326	23.326-29.326	26.314	0.011
100 3-beta-Coprostanol	++++	++++	++++	++++	++++	++++	25.411	22.411-28.411	++++	++++
101 Cholesterol	++++	++++	++++	++++	++++	++++	26.023	23.023-29.023	++++	++++
102 beta-Sitosterol	++++	++++	++++	++++	++++	++++	79.550	76.550-82.550	++++	++++
103 Pyridine	4.381	4.420	4.397	4.381	4.389	4.405	4.405	1.405-7.405	4.395	0.015

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Averaged

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.500	5.000	10.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
3 Phenol	1.82497	1.89376	1.88119	1.75167	1.42981	1.22632	1.66795	16.525
4 Bis(2-Chloroethyl)ether	1.36921	1.46194	1.29786	1.28203	0.91470	0.94459	1.21173	18.796
6 2-Chlorophenol	1.70365	1.71295	1.70960	1.61650	1.33635	1.35352	1.57211	11.428
7 1,3-Dichlorobenzene	1.71566	1.74913	1.68602	1.65873	1.49770	1.35322	1.61009	9.510
9 1,4-Dichlorobenzene	1.63758	1.61561	1.56761	1.58124	1.42625	1.23442	1.51045	10.204
11 Benzyl alcohol	0.75416	0.73033	0.84264	0.78946	0.90641	0.70926	0.78872	9.432
12 1,2-Dichlorobenzene	1.69788	1.65838	1.56378	1.48022	1.27449	1.02188	1.44945	17.800
13 2-Methylphenol	1.51793	1.54079	1.56488	1.53055	1.31552	1.13062	1.43339	12.123
14 2,2'-oxybis(1-Chloropropane)	1.62436	1.61021	1.61841	1.44015	1.25122	1.15734	1.45029	14.121
15 4-Methylphenol	0.99778	0.82354	0.86910	0.76640	0.78166	0.86342	0.85032	9.803
16 N-Nitroso-di-n-propylamine	0.89014	0.87909	0.89204	0.82692	0.79244	0.50144	0.79702	18.839
17 Hexachloroethane	0.67488	0.68913	0.63587	0.61910	0.57232	0.53229	0.62060	9.672
19 Nitrobenzene	0.35220	0.36598	0.36576	0.34869	0.30528	0.28530	0.33720	10.025
20 Isophorone	0.68455	0.66674	0.67371	0.66636	0.60453	0.60685	0.65046	5.428
21 2-Nitrophenol	0.28525	0.26882	0.28740	0.28145	0.20912	0.30678	0.27314	12.326
22 2,4-Dimethylphenol	0.40706	0.42147	0.41339	0.37571	0.32989	0.33618	0.38062	10.519
23 Bis(2-Chloroethoxy)methane	0.42651	0.42493	0.40877	0.37847	0.34720	0.32459	0.38508	11.020
24 Benzoic acid	0.09758	0.14960	0.21543	0.27199	0.24138	0.29502	0.21183	35.548
25 2,4-Dichlorophenol	0.34166	0.38467	0.37714	0.37140	0.33121	0.37652	0.36377	6.004
26 1,2,4-Trichlorobenzene	0.22980	0.22957	0.22602	0.20987	0.22191	0.21733	0.22242	3.497
28 Naphthalene	1.10092	1.05789	1.02912	0.95510	0.83824	0.85768	0.97316	11.115
29 4-Chloroaniline	0.41892	0.43557	0.43412	0.42784	0.37330	0.36500	0.40913	7.729
30 Hexachlorobutadiene	0.23355	0.23935	0.22419	0.27502	0.25893	0.26485	0.24932	7.970
31 4-Chloro-3-methylphenol	0.32854	0.34699	0.35544	0.34669	0.31403	0.32955	0.33687	4.576
32 2-Methylnaphthalene	0.76049	0.76246	0.76121	0.73809	0.66985	0.65817	0.72505	6.659
33 Hexachlorocyclopentadiene	++++	0.41811	0.42637	0.45357	0.46166	0.51411	0.45476	8.316
34 2,4,6-Trichlorophenol	0.43835	0.45214	0.46781	0.48759	0.48837	0.50549	0.47330	5.317
35 2,4,5-Trichlorophenol	0.46066	0.48195	0.51780	0.53552	0.52185	0.52069	0.50641	5.662
37 2-Chloronaphthalene	1.15648	1.24099	1.16910	1.17290	1.11167	1.12146	1.16210	3.966

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
38 2-Nitroaniline	0.24940	0.24929	0.27005	0.27492	0.26693	0.27165	0.26371	4.330
39 Dimethylphthalate	1.28382	1.29772	1.29659	1.31098	1.24825	1.31623	1.29227	1.890
40 Acenaphthylene	2.05903	2.05598	1.93407	1.87291	1.69765	1.72390	1.89060	8.294
41 2,6-Dinitrotoluene	0.28195	0.28910	0.29921	0.29859	0.28605	0.28938	0.29071	2.369
43 3-Nitroaniline	0.31571	0.33232	0.34684	0.32239	0.27450	0.34999	0.32363	8.504
44 Acenaphthene	1.16028	1.15324	1.12690	1.06212	0.97110	1.01026	1.08066	7.293
45 2,4-Dinitrophenol	0.03468	0.09590	0.13870	0.20943	0.22606	0.25849	0.16054	53.416 <-
46 Dibenzofuran	1.67290	1.71883	1.65079	1.60028	1.50688	1.47312	1.60380	6.026
47 4-Nitrophenol	0.10144	0.13404	0.15739	0.15762	0.17292	0.18626	0.15161	19.896
48 2,4-Dinitrotoluene	0.33512	0.37003	0.39539	0.40150	0.39076	0.39380	0.38110	6.546
49 Fluorene	1.40894	1.43034	1.38216	1.33911	1.20490	1.21776	1.33054	7.314
50 Diethylphthalate	1.48110	1.30056	1.28717	1.25122	1.37415	1.42108	1.35255	6.524
51 4-Chlorophenyl-phenylether	0.66127	0.67396	0.64129	0.60844	0.52495	0.59181	0.61696	8.871
52 4-Nitroaniline	0.26238	0.28892	0.32810	0.25678	0.24329	0.22771	0.26787	13.399
53 4,6-Dinitro-2-methylphenol	+++++	0.13835	0.16747	0.19285	0.19333	0.19074	0.17655	13.553
54 N-Nitrosodiphenylamine	0.51110	0.53151	0.52977	0.50624	0.46293	0.40565	0.49120	9.912
56 4-Bromophenyl-phenylether	0.22882	0.22757	0.23497	0.23232	0.23113	0.21372	0.22809	3.291
57 Hexachlorobenzene	0.30981	0.29560	0.29215	0.28192	0.28209	0.25922	0.28680	5.922
58 Pentachlorophenol	+++++	0.14406	0.16750	0.19657	0.20406	0.20499	0.18344	14.595
60 Phenanthrene	1.07480	1.04883	1.05954	0.99555	0.92585	0.83774	0.99039	9.344
61 Anthracene	1.16370	1.11530	1.14097	1.11007	0.98548	0.87173	1.06454	10.607
62 Carbazole	0.94253	0.96263	0.95929	0.79905	0.59848	0.66999	0.82200	19.370
63 Di-n-butylphthalate	1.33985	1.17738	1.26371	1.27514	1.28699	1.21346	1.25942	4.538
64 Fluoranthene	1.28976	1.25468	1.30494	1.28367	1.22650	1.13047	1.24834	5.139
65 Pyrene	1.22506	1.22267	1.21954	1.25224	1.17319	0.93829	1.17183	10.003
67 Butylbenzylphthalate	0.51815	0.45815	0.49087	0.48844	0.49672	0.40378	0.47602	8.464
68 Benzo (a) anthracene	1.24697	1.20554	1.19483	1.17718	1.01992	0.97685	1.13688	9.724
70 3,3'-Dichlorobenzidine	0.65464	0.63742	0.66129	0.49015	0.43662	0.37602	0.54269	22.921 <-
71 Chrysene	1.03886	1.02564	1.00616	0.96488	1.09144	0.93296	1.00999	5.547

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
72 bis(2-Ethylhexyl)phthalate	0.66992	0.54701	0.53795	0.49402	0.50705	0.55553	0.55191	11.322
73 Di-n-octylphthalate	0.99328	0.94170	0.92680	0.90358	0.84574	0.82936	0.90675	6.769
74 Benzo(b)fluoranthene	1.29182	1.14779	1.19909	1.13002	1.13702	1.09576	1.16692	5.977
75 Benzo(k)fluoranthene	1.37312	1.37957	1.31602	1.36210	1.17342	1.31900	1.32054	5.831
187 Total Benzofluoranthenes	1.31073	1.18763	1.18403	1.15628	1.08782	1.13618	1.17711	6.368
76 Benzo(a)pyrene	1.26747	1.04123	1.20520	1.06260	1.16645	1.10639	1.14156	7.643
78 Indeno(1,2,3-cd)pyrene	1.36203	1.30157	1.30871	1.29776	1.25209	1.24033	1.29375	3.378
79 Dibenzo(a,h)anthracene	1.08832	1.04264	1.05289	1.03133	0.96404	0.98109	1.02672	4.519
80 Benzo(g,h,i)perylene	1.15757	1.13388	1.10426	1.09720	1.08963	1.06085	1.10723	3.080
90 N-Nitrosodimethylamine	0.86287	0.93636	0.91366	0.91833	1.08772	0.76285	0.91363	11.600
91 Aniline	3.91231	3.98653	3.70925	3.20394	2.36898	2.89737	3.34640	19.083
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.53501	0.46963	0.45515	0.23905	0.16930	0.30265	0.36180	40.238 <-
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
99 Perylene	1.21207	1.12724	1.11597	1.08879	1.03498	1.05745	1.10608	5.646
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	0.77626	0.80618	0.79940	0.73961	0.68148	0.50528	0.71804	15.861
=====								
\$ 1 2-Fluorophenol	1.31467	1.30236	1.34687	1.33649	1.22882	1.14819	1.27957	5.988
\$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
\$ 2 Phenol-d5	1.53811	1.59634	1.67995	1.66600	1.63091	1.38865	1.58333	6.834
\$ 5 2-Chlorophenol-d4	1.43889	1.45230	1.46985	1.43209	1.25657	1.16995	1.36995	9.131
\$ 10 1,2-Dichlorobenzene-d4	1.10733	1.11477	1.06080	1.02228	0.91305	0.77535	0.99893	13.198
\$ 18 Nitrobenzene-d5	0.37029	0.39629	0.38118	0.38508	0.35330	0.36272	0.37481	4.197
\$ 36 2-Fluorobiphenyl	1.48817	1.51648	1.45130	1.43931	1.30792	1.29125	1.41574	6.652

Analytical Resources, Inc.

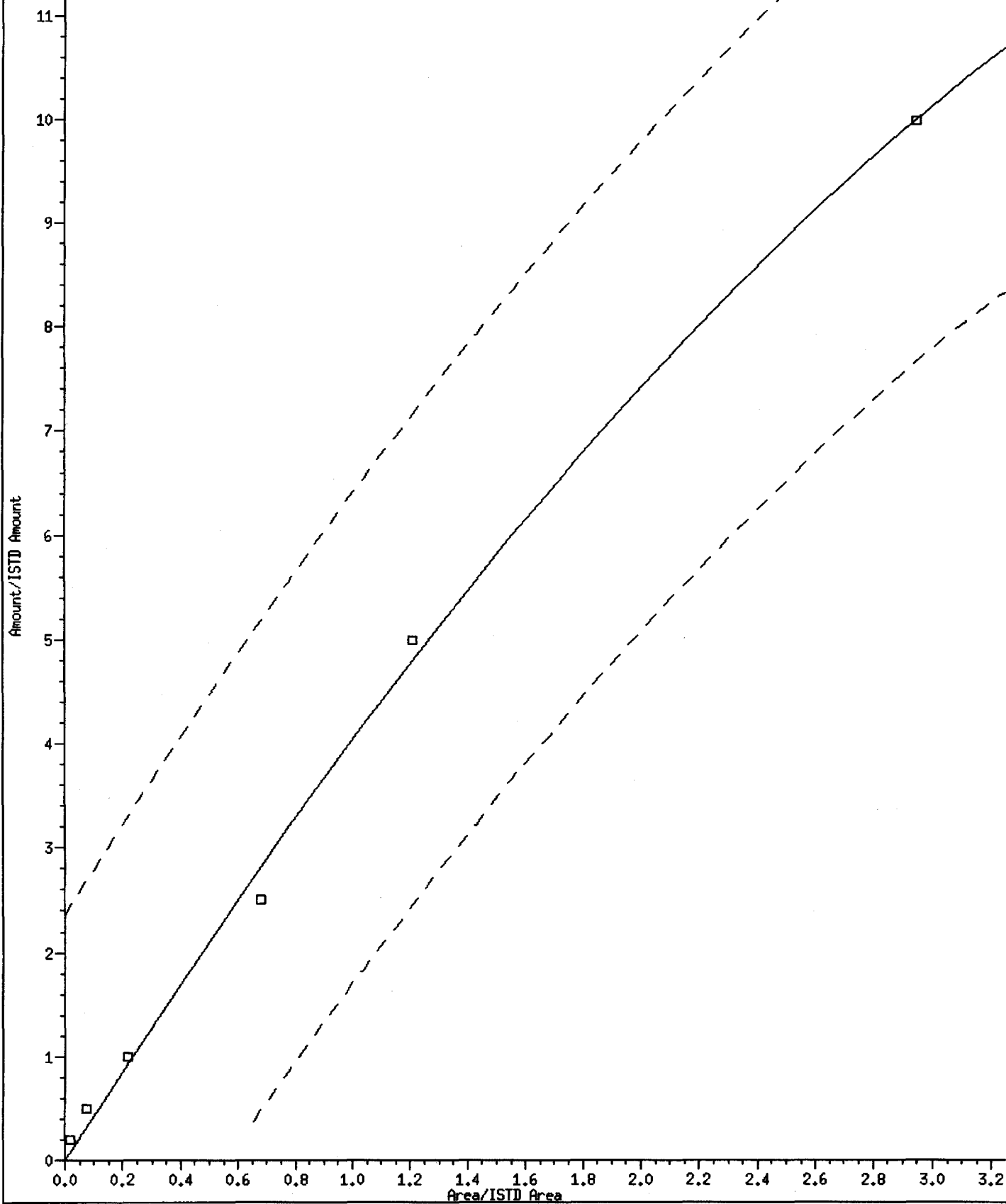
INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
\$ 55 2,4,6-Tribromophenol	0.21543	0.21648	0.22677	0.23790	0.24988	0.26726	0.23562	8.618
\$ 66 Terphenyl-d14	0.80524	0.79132	0.79028	0.81105	0.84958	0.65235	0.78331	8.641
\$ 85 p-Cresol-d4	++++	++++	++++	++++	++++	++++	++++	++++
\$ 86 Anthracene-d10	++++	++++	++++	++++	++++	++++	++++	++++
\$ 87 Fluoranthene-d10	++++	++++	++++	++++	++++	++++	++++	++++
\$ 88 Dibenz(a,h)anthracene-d14	++++	++++	++++	++++	++++	++++	++++	++++
\$ 89 Diphenyl-d10	++++	++++	++++	++++	++++	++++	++++	++++
\$ 95 D10-1-methylnaphthalene	++++	++++	++++	++++	++++	++++	++++	++++

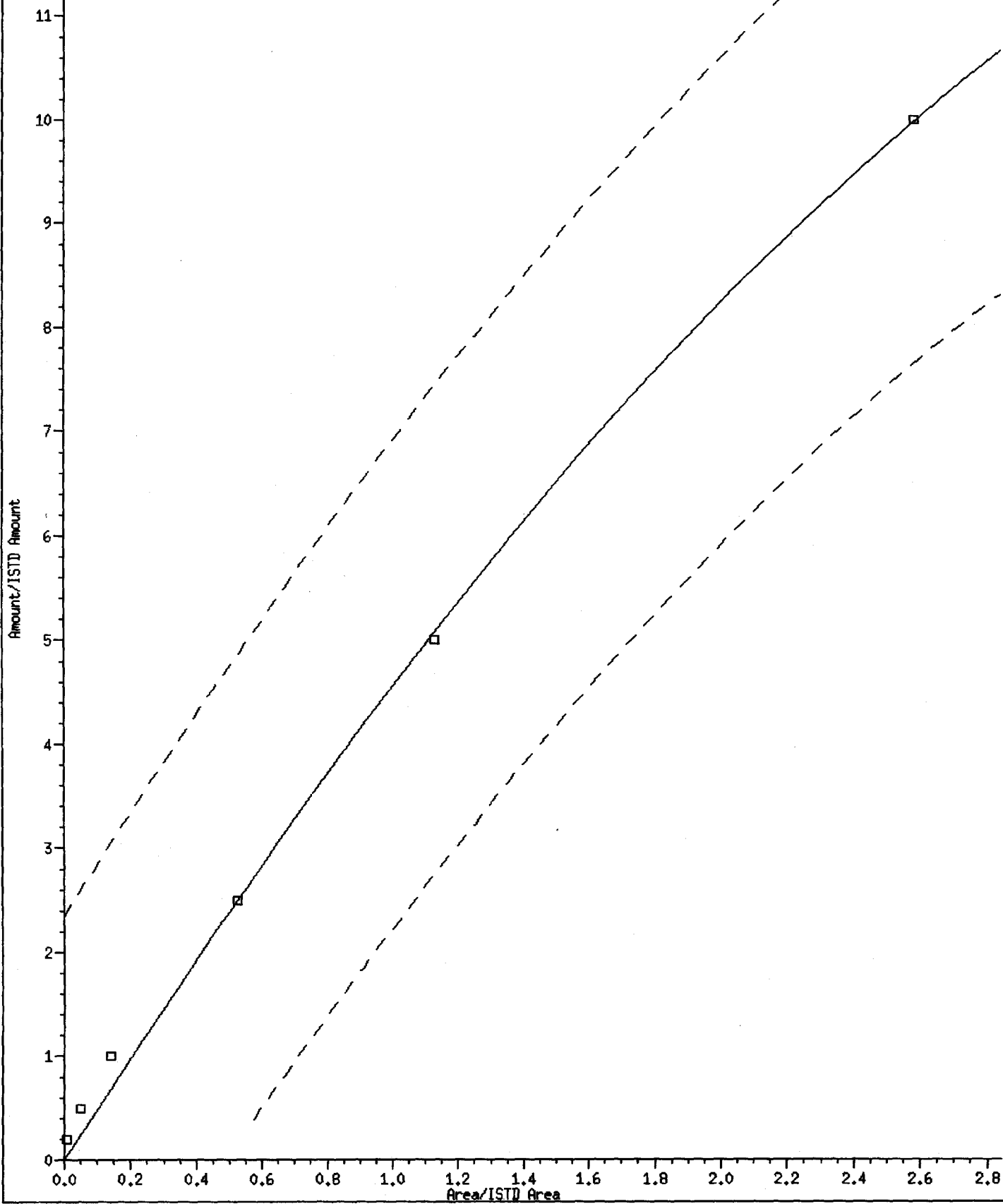
24 Benzoic acid

Curve Type: Quadratic By-Response
Amt = 0 + 4.382932 * Rsp + -0.3348146 * Rsp^2
R^2: 0.9974728

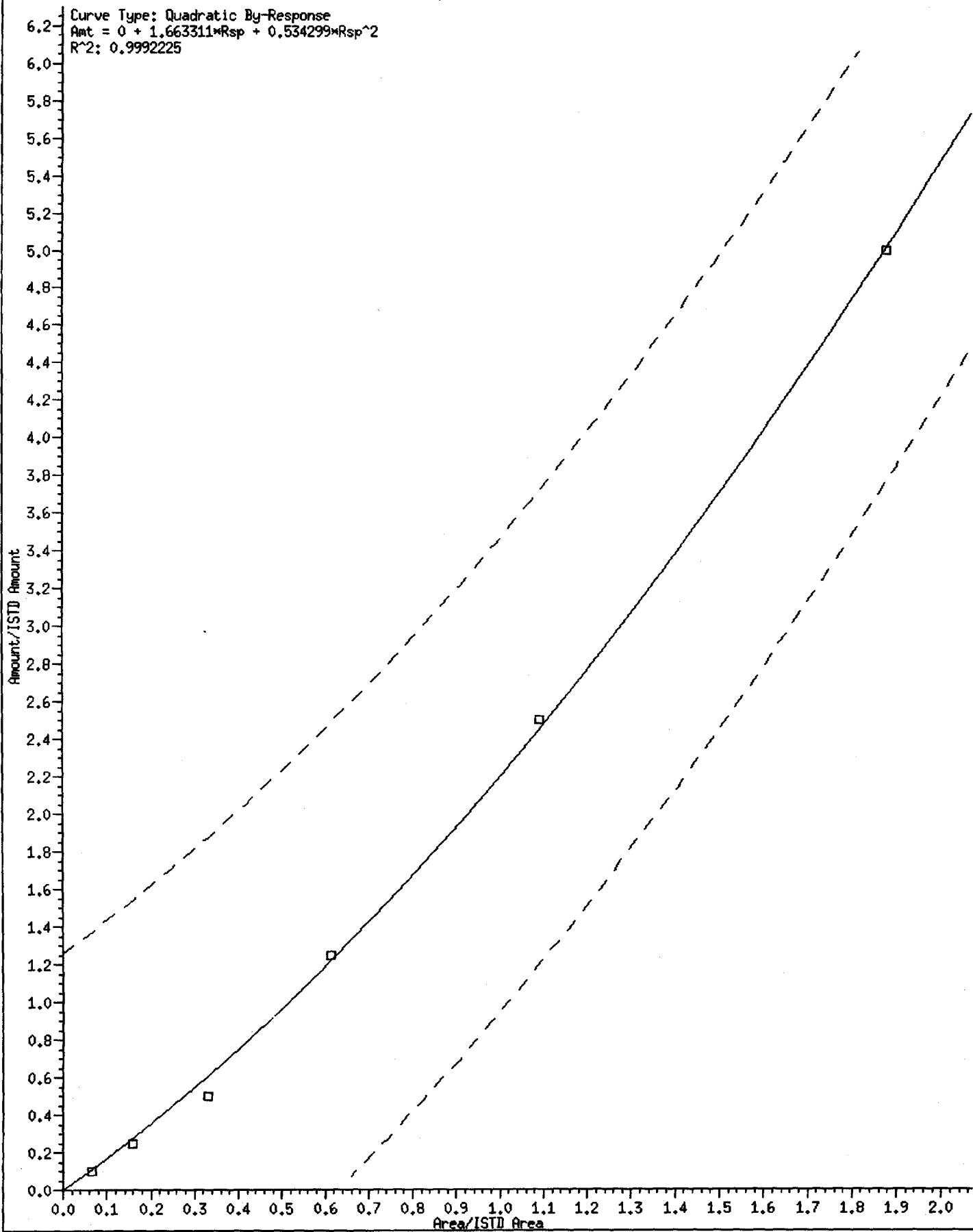


45 2,4-Dinitrophenol

Curve Type: Quadratic By-Response
Amt = 0 + 4.998597*Resp + -0.4394991*Resp^2
R^2: 0.9990124



70 3,3'-Dichlorobenzidine



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-Nov-2012 10:49 yev

Calibration File Names:

- Level 1: /chem1/nt10.i/20121129.b/ic1129c.d
- Level 2: /chem1/nt10.i/20121129.b/ic1129i.d
- Level 3: /chem1/nt10.i/20121129.b/ic1129d.d
- Level 4: /chem1/nt10.i/20121129.b/ic1129g.d
- Level 5: /chem1/nt10.i/20121129.b/ic1129a.d
- Level 6: /chem1/nt10.i/20121129.b/ic1129e.d

Compound	0.2000		0.5000		1		2		5		10		Coefficients		RSD or R^2
	Level 1	Level 2	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	ml	m2	
3 Phenol	1.82497	1.89376	1.88119	1.75167	1.42981	1.22632	AVRG	1.66795				16.52518			
4 Bis(2-Chloroethyl)ether	1.36921	1.46194	1.29786	1.28203	0.91470	0.94459	AVRG	1.21173				18.79634			
6 2-Chlorophenol	1.70365	1.71295	1.70960	1.61650	1.33635	1.35352	AVRG	1.57211				11.42832			
7 1,3-Dichlorobenzene	1.71566	1.74913	1.68602	1.65873	1.49770	1.35322	AVRG	1.61009				9.51042			
9 1,4-Dichlorobenzene	1.63758	1.61561	1.56761	1.58124	1.42625	1.23442	AVRG	1.51045				10.20438			
12 1,2-Dichlorobenzene	1.69788	1.65838	1.56378	1.48022	1.27449	1.02188	AVRG	1.44945				17.80002			
11 Benzyl alcohol	0.75416	0.73033	0.84264	0.78946	0.90641	0.70926	AVRG	0.78872				9.43152			
14 2,2'-oxybis(1-Chloropropane)	1.62436	1.61023	1.61841	1.44015	1.25122	1.15734	AVRG	1.45029				14.12111			
13 2-Methylphenol	1.51793	1.54079	1.56488	1.53055	1.31552	1.13062	AVRG	1.43339				12.12332			
17 Hexachloroethane	0.67488	0.68913	0.63587	0.61910	0.57232	0.53229	AVRG	0.62060				9.67177			
16 N-Nitroso-di-n-propylamine	0.89014	0.87909	0.89204	0.82692	0.79244	0.50144	AVRG	0.79702				18.83878			
15 4-Methylphenol	0.99778	0.82354	0.76640	0.76640	0.78166	0.86342	AVRG	0.85032				9.80310			
19 Nitrobenzene	0.35220	0.36598	0.36576	0.34869	0.30528	0.28530	AVRG	0.33720				10.02538			
20 Isophorone	0.68455	0.66674	0.67371	0.66636	0.60453	0.60685	AVRG	0.65046				5.42789			

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-Nov-2012 10:49 yev

Compound	0.2000		0.5000		1		2		5		10		Coefficients		WRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or	R ²			
21 2-Nitrophenol	0.28525	0.28882	0.28740	0.28145	0.20912	0.30678	AVRG	0.27314	0.27314			12.32568			
22 2,4-Dimethylphenol	0.40706	0.42147	0.41339	0.37571	0.32989	0.33618	AVRG	0.38062	0.38062			10.51931			
23 Bis(2-Chloroethoxy)methane	0.42651	0.42493	0.40877	0.37847	0.34720	0.32459	AVRG	0.38508	0.38508			11.02009			
24 Benzoic acid	6040	22106	64413	197445	361342	792268	QUAD	0.000e+00	4.38293	-0.33481		0.99747			
25 2,4-Dichlorophenol	0.34166	0.38467	0.37714	0.37140	0.33121	0.37652	AVRG	0.36377	0.36377			6.00362			
26 1,2,4-Trichlorobenzene	0.22980	0.22957	0.22602	0.20987	0.22191	0.21733	AVRG	0.22242	0.22242			3.49692			
28 Naphthalene	1.10092	1.05789	1.02912	0.95510	0.83824	0.85768	AVRG	0.97316	0.97316			11.11529			
29 4-Chloroaniline	0.41892	0.43557	0.43412	0.42784	0.37330	0.36500	AVRG	0.40913	0.40913			7.72947			
30 Hexachlorobutadiene	0.23355	0.23935	0.22419	0.27502	0.25893	0.26485	AVRG	0.24932	0.24932			7.96951			
31 4-Chloro-3-methylphenol	0.32854	0.34699	0.35544	0.34669	0.31403	0.32955	AVRG	0.33687	0.33687			4.57605			
32 2-Methylnaphthalene	0.76049	0.76246	0.76121	0.73809	0.66985	0.65817	AVRG	0.72505	0.72505			6.65904			
33 Hexachlorocyclopentadiene	++++	0.41811	0.42637	0.45357	0.46166	0.51411	AVRG	0.45476	0.45476			8.31556			
34 2,4,6-Trichlorophenol	0.43835	0.45214	0.46781	0.48759	0.48837	0.50549	AVRG	0.47330	0.47330			5.31737			
35 2,4,5-Trichlorophenol	0.46066	0.48195	0.51780	0.53552	0.52185	0.52069	AVRG	0.50641	0.50641			5.66187			
37 2-Chloronaphthalene	1.15648	1.24099	1.16910	1.17230	1.11167	1.12146	AVRG	1.16210	1.16210			3.96573			
38 2-Nitroaniline	0.24940	0.24929	0.27005	0.27492	0.26693	0.27165	AVRG	0.26371	0.26371			4.33040			
39 Dimethylphthalate	1.28382	1.29772	1.29659	1.31098	1.24825	1.31623	AVRG	1.29227	1.29227			1.88977			
40 Acenaphthylene	2.05903	2.05598	1.93407	1.87291	1.69765	1.72390	AVRG	1.89060	1.89060			8.29438			
41 2,6-Dinitrotoluene	0.28195	0.28910	0.29921	0.29859	0.28605	0.28938	AVRG	0.29071	0.29071			2.36912			
43 3-Nitroaniline	0.31571	0.33232	0.34684	0.32239	0.27450	0.34999	AVRG	0.32363	0.32363			8.50439			
44 Acenaphthene	1.16028	1.15324	1.12690	1.06212	0.97110	1.01026	AVRG	1.08066	1.08066			7.29273			
45 2,4-Dinitrophenol	1315	8764	25740	94427	201827	416868	QUAD	0.000e+00	4.99860	-0.43950		0.99901			

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-NOV-2012 10:49 yev

Compound	0.2000		0.5000		1		2		5		10		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
46 Dibenzofuran	1.67290	1.71883	1.65079	1.60028	1.50688	1.47312	AVRG	1.60380	1.60380			6.02603			
47 4-Nitrophenol	0.10144	0.13404	0.15739	0.15762	0.17292	0.18626	AVRG	0.15161	0.15161			19.89571			
48 2,4-Dinitrotoluene	0.33512	0.37003	0.39539	0.40150	0.39076	0.39380	AVRG	0.38110	0.38110			6.54640			
50 Diethylphthalate	1.48110	1.30056	1.28717	1.25122	1.37415	1.42108	AVRG	1.35255	1.35255			6.52395			
49 Fluorene	1.40894	1.43034	1.38216	1.33911	1.20490	1.21776	AVRG	1.33054	1.33054			7.31395			
51 4-Chlorophenyl-phenylether	0.66127	0.67396	0.64129	0.60844	0.52495	0.59181	AVRG	0.61696	0.61696			8.87109			
52 4-Nitroaniline	0.26238	0.28892	0.32810	0.25678	0.24329	0.22771	AVRG	0.26787	0.26787			13.39899			
53 4,6-Dinitro-2-methylphenol	+++++	0.13835	0.16747	0.19285	0.19333	0.19074	AVRG	0.17655	0.17655			13.55286			
54 N-Nitrosodiphenylamine	0.51110	0.53151	0.52977	0.50624	0.46293	0.40565	AVRG	0.49120	0.49120			9.91204			
56 4-Bromophenyl-phenylether	0.22882	0.22757	0.23497	0.23232	0.23113	0.21372	AVRG	0.22809	0.22809			3.29091			
57 Hexachlorobenzene	0.30981	0.29560	0.29215	0.28192	0.28209	0.25922	AVRG	0.28680	0.28680			5.92235			
58 Pentachlorophenol	+++++	0.14406	0.16750	0.19657	0.20406	0.20499	AVRG	0.18344	0.18344			14.59492			
60 Phenanthrene	1.07480	1.04883	1.05954	0.99555	0.92585	0.83774	AVRG	0.99039	0.99039			9.34381			
61 Anthracene	1.16370	1.11530	1.14097	1.11007	0.98548	0.87173	AVRG	1.06454	1.06454			10.60730			
62 Carbazole	0.94253	0.96263	0.95929	0.79905	0.59848	0.66999	AVRG	0.82200	0.82200			19.36952			
63 Di-n-butylphthalate	1.33985	1.17738	1.26371	1.27514	1.28699	1.21346	AVRG	1.25942	1.25942			4.53838			
64 Fluoranthene	1.28976	1.25468	1.30494	1.28367	1.22650	1.13047	AVRG	1.24834	1.24834			5.13894			
65 Pyrene	1.22506	1.22267	1.21954	1.25224	1.17319	0.93829	AVRG	1.17183	1.17183			10.00342			
67 Butylbenzylphthalate	0.51815	0.45815	0.49087	0.48844	0.49672	0.40378	AVRG	0.47602	0.47602			8.46357			
68 Benzo(a)anthracene	1.24697	1.20554	1.19483	1.17718	1.01992	0.97685	AVRG	1.13688	1.13688			9.72410			
70 3,3'-Dichlorobenzidine	22944	55368	114847	200521	353502	705688	QUAD	0.000e+00	1.66331	0.53430		0.99922			
71 Chrysene	1.03886	1.02564	1.00616	0.96488	1.09144	0.93296	AVRG	1.00999	1.00999			5.54738			

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-Nov-2012 10:49 yev

Compound	0.2000		0.5000		1		2		5		10		Coefficients		WRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2				
72 bis(2-Ethylhexyl)phthalate	0.6692	0.54701	0.53795	0.49402	0.50705	0.55553	AVRG		0.55191		11.32167				
73 Di-n-octylphthalate	0.99328	0.94170	0.92680	0.90358	0.84574	0.82936	AVRG		0.90675		6.76863				
74 Benzo(b)fluoranthene	1.29182	1.14779	1.19909	1.13002	1.13702	1.09576	AVRG		1.16692		5.97652				
75 Benzo(k)fluoranthene	1.37312	1.37957	1.31602	1.36210	1.17342	1.31900	AVRG		1.32054		5.83104				
76 Benzo(a)pyrene	1.26747	1.04123	1.20520	1.06260	1.16645	1.10639	AVRG		1.14156		7.64282				
78 Indeno(1,2,3-cd)pyrene	1.36203	1.30157	1.30871	1.29776	1.25209	1.24033	AVRG		1.29375		3.37846				
79 Dibenzo(a,h)anthracene	1.08832	1.04264	1.05289	1.03133	0.96404	0.98109	AVRG		1.02672		4.51944				
80 Benzo(g,h,i)perylene	1.15757	1.13388	1.10426	1.09720	1.08963	1.06085	AVRG		1.10723		3.07979				
90 N-Nitrosodimethylamine	0.86287	0.93636	0.91366	0.91833	1.08772	0.76285	AVRG		0.91363		11.59966				
91 Aniline	3.91231	3.98653	3.70925	3.20394	2.36898	2.89737	AVRG		3.34640		19.08286				
93 Benzidine	0.53501	0.46963	0.45515	0.23905	0.16930	0.30265	AVRG		0.32715		40.42474				
103 Pyridine	0.77626	0.80618	0.79940	0.73961	0.68148	0.50528	AVRG		0.71804		15.86107				
105 1-methylnaphthalene	0.70549	0.71349	0.68385	0.67380	0.60560	0.61048	AVRG		0.66545		7.02449				
111 Azobenzene (1,2-DP-Hydrazine)	1.24647	1.25189	1.20249	1.11370	0.94431	1.08874	AVRG		1.14127		10.32065				
187 Total Benzofluoranthenes	1.31073	1.18763	1.18403	1.15628	1.08782	1.13618	AVRG		1.17711		6.36821				
99 Perylene	1.21207	1.12724	1.11597	1.08879	1.03498	1.05745	AVRG		1.10608		5.64599				
98 Retene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00				
120 2,3,4,6-Tetrachlorophenol	++++	++++	++++	++++	0.00104	++++	AVRG		0.00104		0.000e+00				
\$ 1 2-Fluorophenol	1.31467	1.30236	1.34687	1.33649	1.22882	1.14819	AVRG		1.27957		5.98841				
\$ 2 Phenol-d5	1.53811	1.59634	1.67995	1.66600	1.63091	1.38865	AVRG		1.58333		6.83443				
\$ 5 2-Chlorophenol-d4	1.43889	1.45230	1.46985	1.43209	1.25657	1.16995	AVRG		1.36995		9.13077				

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-Nov-2012 10:49 yev

Compound	0.2000		0.5000		1		2		5		10		Coefficients		RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
\$ 10 1,2-Dichlorobenzene-d4	1.10733	1.11477	1.06080	1.02228	0.91305	0.77535	AVRG	0.99893						13.19815	
\$ 18 Nitrobenzene-d5	0.37029	0.39629	0.38118	0.38508	0.35330	0.36272	AVRG	0.37481						4.19712	
\$ 36 2-Fluorobiphenyl	1.48817	1.51648	1.45130	1.43931	1.30792	1.29125	AVRG	1.41574						6.65217	
\$ 55 2,4,6-Tribromophenol	0.21543	0.21648	0.22577	0.23790	0.24988	0.26726	AVRG	0.23562						8.61798	
\$ 66 Terphenyl-d14	0.80524	0.79132	0.79028	0.81105	0.84958	0.65235	AVRG	0.78331						8.64102	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 30-Nov-2012 10:49 yev

Curve	Formula	Units
Averaged	Ant = Rep/ml	Response
Quad	Ant = b + ml*Rep + m2*Rep^2	Response

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121129.b/ic1129a.d
 Lab Smp Id: ABN 5
 Inj Date : 29-NOV-2012 09:54
 Operator : VTS/YZ
 Smp Info : ABN 5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121129.b/ABN.m
 Meth Date : 30-Nov-2012 10:49 yev
 Cal Date : 29-NOV-2012 15:30
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Y2 B/a/p

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129i.d
 Calibration Sample, Level: 5
 Compound Sublist: PSDDAICAL.sub

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
\$ 1 2-Fluorophenol	112		6.613	6.613	(0.740)	125295	5.00000	4.802
\$ 2 Phenol-d5	99		8.305	8.305	(0.929)	166294	5.00000	5.150
3 Phenol	94		8.328	8.328	(0.932)	145789	5.00000	4.286
\$ 5 2-Chlorophenol-d4	132		8.560	8.560	(0.958)	128125	5.00000	4.586
4 Bis(2-Chloroethyl)ether	93		8.475	8.483	(0.948)	93266	5.00000	3.774
6 2-Chlorophenol	128		8.591	8.591	(0.961)	136259	5.00000	4.250
7 1,3-Dichlorobenzene	146		8.869	8.869	(0.992)	152711	5.00000	4.651
* 8 1,4-Dichlorobenzene-d4	152		8.939	8.939	(1.000)	81571	4.00000	
9 1,4-Dichlorobenzene	146		8.970	8.970	(1.003)	145426	5.00000	4.721
\$ 10 1,2-Dichlorobenzene-d4	152		9.319	9.319	(1.043)	93098	5.00000	4.570
12 1,2-Dichlorobenzene	146		9.343	9.343	(1.045)	129952	5.00000	4.396
11 Benzyl alcohol	108		9.249	9.249	(1.035)	92421	5.00000	5.746
14 2,2'-oxybis(1-Chloropropane)	121		10.910	10.918	(1.220)	127579	5.00000	4.314
13 2-Methylphenol	108		9.506	9.506	(1.063)	134135	5.00000	4.589
17 Hexachloroethane	117		9.971	9.971	(1.115)	58356	5.00000	4.611
16 N-Nitroso-di-n-propylamine	70		9.847	9.855	(1.102)	80800	5.00000	4.971
15 4-Methylphenol	108		9.793	9.793	(1.095)	79701	5.00000	4.596
\$ 18 Nitrobenzene-d5	82		10.103	10.103	(0.872)	132223	5.00000	4.713
19 Nitrobenzene	77		10.142	10.150	(0.875)	114252	5.00000	4.527
20 Isophorone	82		10.631	10.639	(0.917)	226244	5.00000	4.647
21 2-Nitrophenol	139		10.817	10.825	(0.933)	78264	5.00000	3.828
22 2,4-Dimethylphenol	107		10.910	10.910	(0.941)	246919	10.00000	8.667
23 Bis(2-Chloroethoxy)methane	93		11.118	11.118	(0.959)	129940	5.00000	4.508
24 Benzoic acid	105		11.187	11.187	(0.965)	361342	20.00000	19.21
25 2,4-Dichlorophenol	162		11.310	11.318	(0.976)	247912	10.00000	9.105
26 1,2,4-Trichlorobenzene	180		11.495	11.495	(0.992)	83051	5.00000	4.989
* 27 Naphthalene-d8	136		11.588	11.588	(1.000)	299399	4.00000	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	----	--	-----	-----	-----	-----	-----
28 Naphthalene	128	11.627	11.627	(1.003)	313711	5.00000	4.307
29 4-Chloroaniline	127	11.789	11.797	(1.017)	279416	10.0000	9.124
30 Hexachlorobutadiene	225	12.036	12.036	(1.039)	96905	5.00000	5.193
31 4-Chloro-3-methylphenol	107	12.864	12.872	(1.110)	235050	10.0000	9.322
32 2-Methylnaphthalene	142	13.135	13.135	(1.133)	250689	5.00000	4.619
33 Hexachlorocyclopentadiene	237	13.646	13.661	(0.882)	206089	10.0000	10.15
34 2,4,6-Trichlorophenol	196	13.824	13.831	(0.893)	218015	10.0000	10.32
35 2,4,5-Trichlorophenol	196	13.901	13.917	(0.898)	232960	10.0000	10.30
\$ 36 2-Fluorobiphenyl	172	13.994	13.994	(0.904)	291934	5.00000	4.619
37 2-Chloronaphthalene	162	14.203	14.211	(0.918)	248130	5.00000	4.783
38 2-Nitroaniline	65	14.505	14.512	(0.937)	119160	10.0000	10.12
39 Dimethylphthalate	163	14.992	14.992	(0.968)	278616	5.00000	4.830
40 Acenaphthylene	152	15.131	15.131	(0.977)	378925	5.00000	4.490
41 2,6-Dinitrotoluene	165	15.124	15.139	(0.977)	127696	10.0000	9.840
* 42 Acenaphthene-d10	164	15.480	15.480	(1.000)	178564	4.00000	
43 3-Nitroaniline	138	15.426	15.434	(0.996)	122539	10.0000	8.482
44 Acenaphthene	153	15.549	15.549	(1.004)	216754	5.00000	4.493
45 2,4-Dinitrophenol	184	15.658	15.665	(1.011)	201827	20.0000	20.35
46 Dibenzofuran	168	15.905	15.905	(1.027)	336343	5.00000	4.698
47 4-Nitrophenol	109	15.828	15.836	(1.022)	77195	10.0000	11.41
48 2,4-Dinitrotoluene	165	15.998	16.006	(1.033)	174441	10.0000	10.25
50 Diethylphthalate	149	16.577	16.577	(1.071)	306718	5.00000	5.080
49 Fluorene	166	16.670	16.670	(1.077)	268940	5.00000	4.528
51 4-Chlorophenyl-phenylether	204	16.694	16.701	(1.078)	117171	5.00000	4.254
52 4-Nitroaniline	138	16.802	16.802	(1.085)	108609	10.0000	9.083
53 4,6-Dinitro-2-methylphenol	198	16.902	16.910	(0.902)	295225	20.0000	21.90
54 N-Nitrosodiphenylamine	169	16.964	16.964	(0.905)	176731	5.00000	4.712
\$ 55 2,4,6-Tribromophenol	330	17.257	17.257	(1.115)	55774	5.00000	5.303
56 4-Bromophenyl-phenylether	248	17.773	17.789	(0.948)	88235	5.00000	5.067
57 Hexachlorobenzene	284	18.090	18.090	(0.965)	107691	5.00000	4.918
58 Pentachlorophenol	266	18.493	18.493	(0.986)	155807	10.0000	11.12
* 59 Phenanthrene-d10	188	18.748	18.748	(1.000)	305410	4.00000	
60 Phenanthrene	178	18.802	18.802	(1.003)	353455	5.00000	4.674
61 Anthracene	178	18.895	18.895	(1.008)	376218	5.00000	4.629
62 Carbazole	167	19.259	19.274	(1.027)	228477	5.00000	3.640
63 Di-n-butylphthalate	149	20.118	20.118	(1.073)	491323	5.00000	5.109
64 Fluoranthene	202	21.216	21.216	(1.132)	468233	5.00000	4.913
65 Pyrene	202	21.634	21.634	(0.908)	474927	5.00000	5.006
\$ 66 Terphenyl-d14	244	21.951	21.951	(0.921)	343924	5.00000	5.423
67 Butylbenzylphthalate	149	22.896	22.896	(0.961)	201080	5.00000	5.217
68 Benzo(a)anthracene	228	23.794	23.794	(0.999)	412879	5.00000	4.486
* 69 Chrysene-d12	240	23.825	23.825	(1.000)	323853	4.00000	
70 3,3'-Dichlorobenzidine	252	23.771	23.786	(0.998)	353502	10.0000	9.809
71 Chrysene	228	23.864	23.864	(1.002)	441832	5.00000	5.403
72 bis(2-Ethylhexyl)phthalate	149	23.941	23.941	(0.961)	271172	5.00000	4.594
* 134 Di-n-octylphthalate-d4	153	24.917	24.917	(1.000)	427845	4.00000	
73 Di-n-octylphthalate	149	24.924	24.924	(1.000)	452306	5.00000	4.664

Compounds	QUANT SIG		AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
74 Benzo(b)fluoranthene	252	25.582	25.598	(0.974)	433937	5.00000	4.872	
75 Benzo(k)fluoranthene	252	25.621	25.637	(0.976)	447828	5.00000	4.443	
76 Benzo(a)pyrene	252	26.155	26.155	(0.996)	445171	5.00000	5.109	
* 77 Perylene-d12	264	26.256	26.256	(1.000)	305316	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.573	28.573	(1.088)	477855	5.00000	4.839	
79 Dibenzo(a,h)anthracene	278	28.597	28.597	(1.089)	367920	5.00000	4.695	
80 Benzo(g,h,i)perylene	276	29.257	29.257	(1.114)	415852	5.00000	4.921	
90 N-Nitrosodimethylamine	74	4.358	4.374	(0.488)	221816	10.0000	11.91	
91 Aniline	93	8.367	8.375	(0.936)	241550	5.00000	3.540	
93 Benzidine	184	21.479	21.495	(0.902)	137073	10.0000	5.175	
103 Pyridine	79	4.381	4.405	(0.490)	138972	10.0000	9.491	
105 1-methylnaphthalene	142	13.375	13.375	(1.154)	226644	5.00000	4.550	
111 Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.049	(1.101)	210774	5.00000	4.137	
187 Total Benzofluoranthenes	252	25.621	25.621	(0.976)	830324	10.0000	9.241	
99 Perylene	252	26.310	26.326	(1.002)	394994	5.00000	4.679	
98 Retene	219	Compound Not Detected.						
120 2,3,4,6-Tetrachlorophenol	232	16.284	16.284	(1.052)	233	5.00000	5.000	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129a.d
 Lab Smp Id: ABN 5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

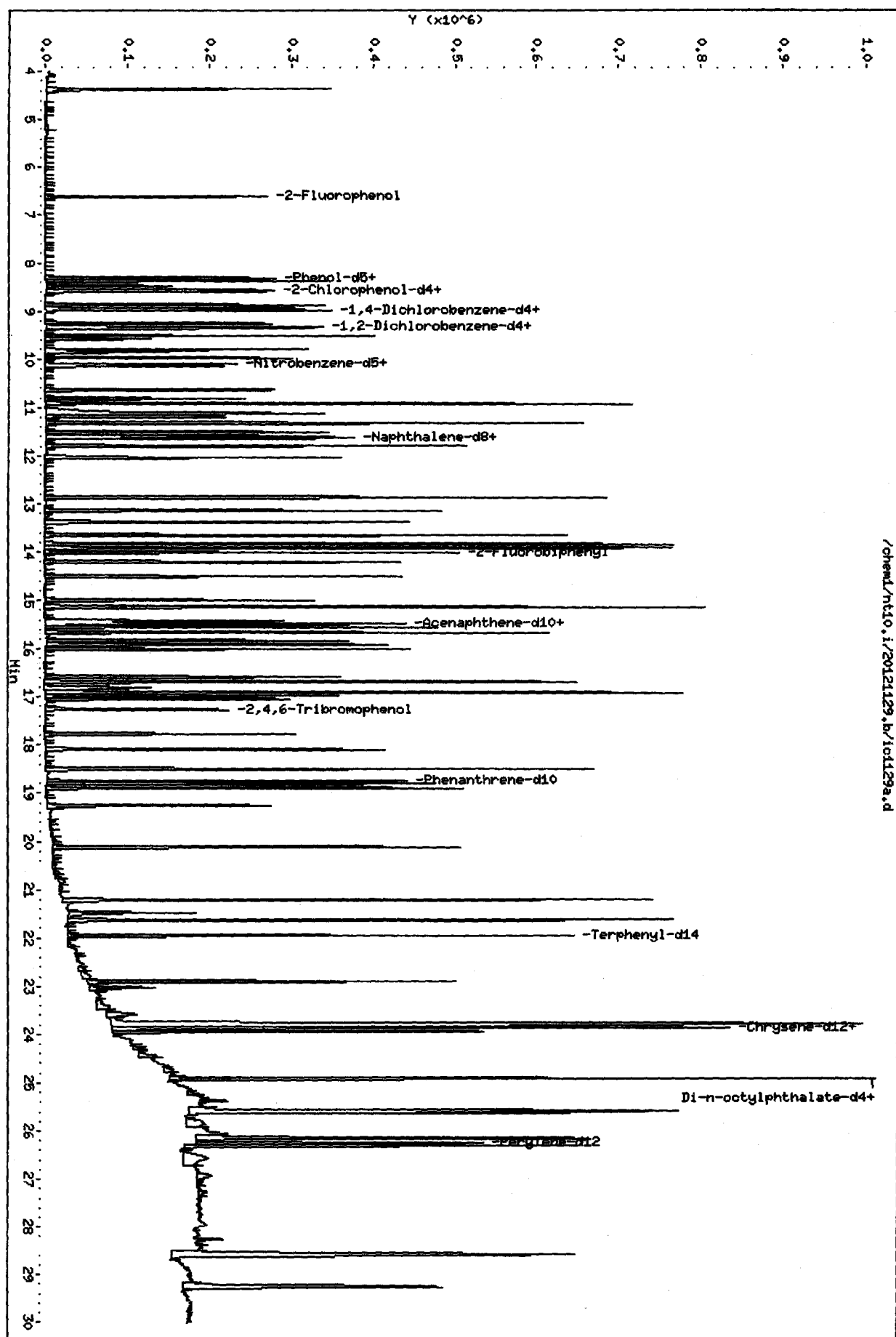
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	81571	0.00
27 Naphthalene-d8	299399	149700	598798	299399	0.00
42 Acenaphthene-d10	178564	89282	357128	178564	0.00
59 Phenanthrene-d10	305410	152705	610820	305410	0.00
69 Chrysene-d12	323853	161926	647706	323853	0.00
134 Di-n-octylphthala	427845	213922	855690	427845	0.00
77 Perylene-d12	305316	152658	610632	305316	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.94	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.48	14.98	15.98	15.48	0.00
59 Phenanthrene-d10	18.75	18.25	19.25	18.75	0.00
69 Chrysene-d12	23.82	23.32	24.32	23.82	0.00
134 Di-n-octylphthala	24.92	24.42	25.42	24.92	0.00
77 Perylene-d12	26.26	25.76	26.76	26.26	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.



CO-ELUTION SUMMARY FOR FILE - ic1129a.d

Lab ID: ABN 5, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YZ 12/01/12

Data file : /chem1/nt10.i/20121129.b/ic1129c.d
 Lab Smp Id: ABN0.2
 Inj Date : 29-NOV-2012 11:10
 Operator : VTS/YZ
 Smp Info : ABN0.2
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121129.b/ABN.m
 Meth Date : 30-Nov-2012 10:49 yev
 Cal Date : 29-NOV-2012 11:10
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129c.d
 Calibration Sample, Level: 1
 Compound Sublist: PSDDAICAL.sub

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.621	6.613	(0.740)	5472	0.20000	0.2068	
\$ 2 Phenol-d5	99	8.313	8.305	(0.929)	6402	0.20000	0.1941	
3 Phenol	94	8.336	8.328	(0.932)	7596	0.20000	0.2243	
\$ 5 2-Chlorophenol-d4	132	8.568	8.560	(0.958)	5989	0.20000	0.2135	
4 Bis(2-Chloroethyl) ether	93	8.491	8.483	(0.949)	5699	0.20000	0.2398	
6 2-Chlorophenol	128	8.599	8.591	(0.961)	7091	0.20000	0.2242	
7 1,3-Dichlorobenzene	146	8.877	8.869	(0.992)	7141	0.20000	0.2136	
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939	(1.000)	83245	4.00000		
9 1,4-Dichlorobenzene	146	8.978	8.970	(1.003)	6816	0.20000	0.2138	
\$ 10 1,2-Dichlorobenzene-d4	152	9.327	9.319	(1.042)	4609	0.20000	0.2192	
12 1,2-Dichlorobenzene	146	9.358	9.343	(1.046)	7067	0.20000	0.2285	
11 Benzyl alcohol	108	9.257	9.249	(1.035)	3139	0.20000	0.1817	
14 2,2'-oxybis(1-Chloropropane)	121	10.925	10.918	(1.221)	6761	0.20000	0.2260	
13 2-Methylphenol	108	9.521	9.506	(1.064)	6318	0.20000	0.2143	
17 Hexachloroethane	117	9.979	9.971	(1.115)	2809	0.20000	0.2164	
16 N-Nitroso-di-n-propylamine	70	9.855	9.855	(1.101)	3705	0.20000	0.2116	
15 4-Methylphenol	108	9.816	9.793	(1.097)	4153	0.20000	0.2243	
\$ 18 Nitrobenzene-d5	82	10.119	10.103	(0.873)	5730	0.20000	0.2047	
19 Nitrobenzene	77	10.158	10.150	(0.876)	5450	0.20000	0.2143	
20 Isophorone	82	10.647	10.639	(0.918)	10593	0.20000	0.2124	
21 2-Nitrophenol	139	10.833	10.825	(0.934)	4414	0.20000	0.2308	
22 2,4-Dimethylphenol	107	10.925	10.910	(0.942)	12598	0.40000	0.4419	
23 Bis(2-Chloroethoxy)methane	93	11.126	11.118	(0.959)	6600	0.20000	0.2205	
24 Benzoic acid	105	11.041	11.187	(0.952)	6040	0.80000	0.4606 (M)	
25 2,4-Dichlorophenol	162	11.326	11.318	(0.977)	10574	0.40000	0.4062	
26 1,2,4-Trichlorobenzene	180	11.519	11.495	(0.993)	3556	0.20000	0.2035	
* 27 Naphthalene-d8	136	11.596	11.588	(1.000)	309486	4.00000		

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
28 Naphthalene	128	11.642	11.627	(1.004)	17036	0.20000	0.2271
29 4-Chloroaniline	127	11.804	11.797	(1.018)	12965	0.40000	0.4230
30 Hexachlorobutadiene	225	12.044	12.036	(1.039)	3614	0.20000	0.1897
31 4-Chloro-3-methylphenol	107	12.872	12.872	(1.110)	10168	0.40000	0.4090
32 2-Methylnaphthalene	142	13.142	13.135	(1.133)	11768	0.20000	0.2127
33 Hexachlorocyclopentadiene	237	13.661	13.661	(0.882)	7208	0.40000	0.3294
34 2,4,6-Trichlorophenol	196	13.831	13.831	(0.893)	8310	0.40000	0.3784
35 2,4,5-Trichlorophenol	196	13.909	13.917	(0.898)	8733	0.40000	0.3751
\$ 36 2-Fluorobiphenyl	172	14.002	13.994	(0.904)	14106	0.20000	0.2129
37 2-Chloronaphthalene	162	14.210	14.211	(0.918)	10962	0.20000	0.2040
38 2-Nitroaniline	65	14.512	14.512	(0.937)	4728	0.40000	0.3864
39 Dimethylphthalate	163	15.000	14.992	(0.968)	12169	0.20000	0.2028
40 Acenaphthylene	152	15.139	15.131	(0.978)	19517	0.20000	0.2192
41 2,6-Dinitrotoluene	165	15.131	15.139	(0.977)	5345	0.40000	0.3971
* 42 Acenaphthene-d10	164	15.488	15.480	(1.000)	189575	4.00000	
43 3-Nitroaniline	138	15.433	15.434	(0.996)	5985	0.40000	0.4279
44 Acenaphthene	153	15.557	15.549	(1.004)	10998	0.20000	0.2178
45 2,4-Dinitrophenol	184	15.665	15.665	(1.011)	1315	0.80000	0.1227
46 Dibenzofuran	168	15.913	15.905	(1.027)	15857	0.20000	0.2104
47 4-Nitrophenol	109	15.843	15.836	(1.023)	1923	0.40000	0.2958
48 2,4-Dinitrotoluene	165	15.998	16.006	(1.033)	6353	0.40000	0.3693
50 Diethylphthalate	149	16.585	16.577	(1.071)	14039	0.20000	0.2075
49 Fluorene	166	16.678	16.670	(1.077)	13355	0.20000	0.2156
51 4-Chlorophenyl-phenylether	204	16.701	16.701	(1.078)	6268	0.20000	0.2230
52 4-Nitroaniline	138	16.802	16.802	(1.085)	4974	0.40000	0.4151
53 4,6-Dinitro-2-methylphenol	198	16.902	16.910	(0.901)	5036	0.80000	0.3266
54 N-Nitrosodiphenylamine	169	16.972	16.964	(0.905)	8153	0.20000	0.2099
\$ 55 2,4,6-Tribromophenol	330	17.265	17.257	(1.115)	2042	0.20000	0.1852
56 4-Bromophenyl-phenylether	248	17.781	17.789	(0.948)	3650	0.20000	0.1990
57 Hexachlorobenzene	284	18.098	18.090	(0.965)	4942	0.20000	0.2094
58 Pentachlorophenol	266	18.501	18.493	(0.986)	3173	0.40000	0.1950
* 59 Phenanthrene-d10	188	18.756	18.748	(1.000)	319035	4.00000	
60 Phenanthrene	178	18.802	18.802	(1.002)	17145	0.20000	0.2149
61 Anthracene	178	18.903	18.895	(1.008)	18563	0.20000	0.2166
62 Carbazole	167	19.266	19.274	(1.027)	15035	0.20000	0.2447
63 Di-n-butylphthalate	149	20.125	20.118	(1.073)	21373	0.20000	0.2040
64 Fluoranthene	202	21.216	21.216	(1.131)	20574	0.20000	0.2050
65 Pyrene	202	21.634	21.634	(0.908)	21468	0.20000	0.2043
\$ 66 Terphenyl-d14	244	21.959	21.951	(0.922)	14111	0.20000	0.1946
67 Butylbenzylphthalate	149	22.903	22.896	(0.961)	9080	0.20000	0.2042
68 Benzo(a)anthracene	228	23.794	23.794	(0.999)	21852	0.20000	0.2200
* 69 Chrysene-d12	240	23.825	23.825	(1.000)	350481	4.00000	
70 3,3'-Dichlorobenzidine	252	23.771	23.786	(0.998)	22944	0.40000	0.5997
71 Chrysene	228	23.864	23.864	(1.002)	18205	0.20000	0.1951
72 bis(2-Ethylhexyl)phthalate	149	23.941	23.941	(0.961)	14989	0.20000	0.2277
* 134 Di-n-octylphthalate-d4	153	24.917	24.917	(1.000)	447487	4.00000	
73 Di-n-octylphthalate	149	24.924	24.924	(1.000)	22224	0.20000	0.2160

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	25.582	25.598	(0.974)	21545	0.20000	0.2127
75 Benzo(k)fluoranthene	252	25.621	25.637	(0.976)	22901	0.20000	0.2157
76 Benzo(a)pyrene	252	26.155	26.155	(0.996)	21139	0.20000	0.2083
* 77 Perylene-d12	264	26.256	26.256	(1.000)	333561	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.573	28.573	(1.088)	22716	0.20000	0.2084
79 Dibenzo(a,h)anthracene	278	28.597	28.597	(1.089)	18151	0.20000	0.2121
80 Benzo(g,h,i)perylene	276	29.249	29.257	(1.114)	19306	0.20000	0.2060
90 N-Nitrosodimethylamine	74	4.366	4.374	(0.488)	7183	0.40000	0.3539
91 Aniline	93	8.383	8.375	(0.937)	16284	0.20000	0.2491
93 Benzidine	184	21.487	21.495	(0.902)	18751	0.40000	0.6077
103 Pyridine	79	4.420	4.405	(0.494)	6462	0.40000	0.4260
105 1-methylnaphthalene	142	13.382	13.375	(1.154)	10917	0.20000	0.2152
111 Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.049	(1.100)	11815	0.20000	0.2276
187 Total Benzofluoranthenes	252	25.582	25.621	(0.974)	43721	0.40000	0.4372
99 Perylene	252	26.302	26.326	(1.002)	20215	0.20000	0.2158
98 Retene	219	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129c.d
 Lab Smp Id: ABN0.2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	83245	2.05
27 Naphthalene-d8	299399	149700	598798	309486	3.37
42 Acenaphthene-d10	178564	89282	357128	189575	6.17
59 Phenanthrene-d10	305410	152705	610820	319035	4.46
69 Chrysene-d12	323853	161926	647706	350481	8.22
134 Di-n-octylphthala	427845	213922	855690	447487	4.59
77 Perylene-d12	305316	152658	610632	333561	9.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.04
69 Chrysene-d12	23.82	23.32	24.32	23.82	0.00
134 Di-n-octylphthala	24.92	24.42	25.42	24.92	0.00
77 Perylene-d12	26.26	25.76	26.76	26.26	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: /chem1/nt10.1/20121129.bv/1c1129c.d

Date: 29-NOV-2012 11:10

Client ID:

Sample Info: ABNO.2

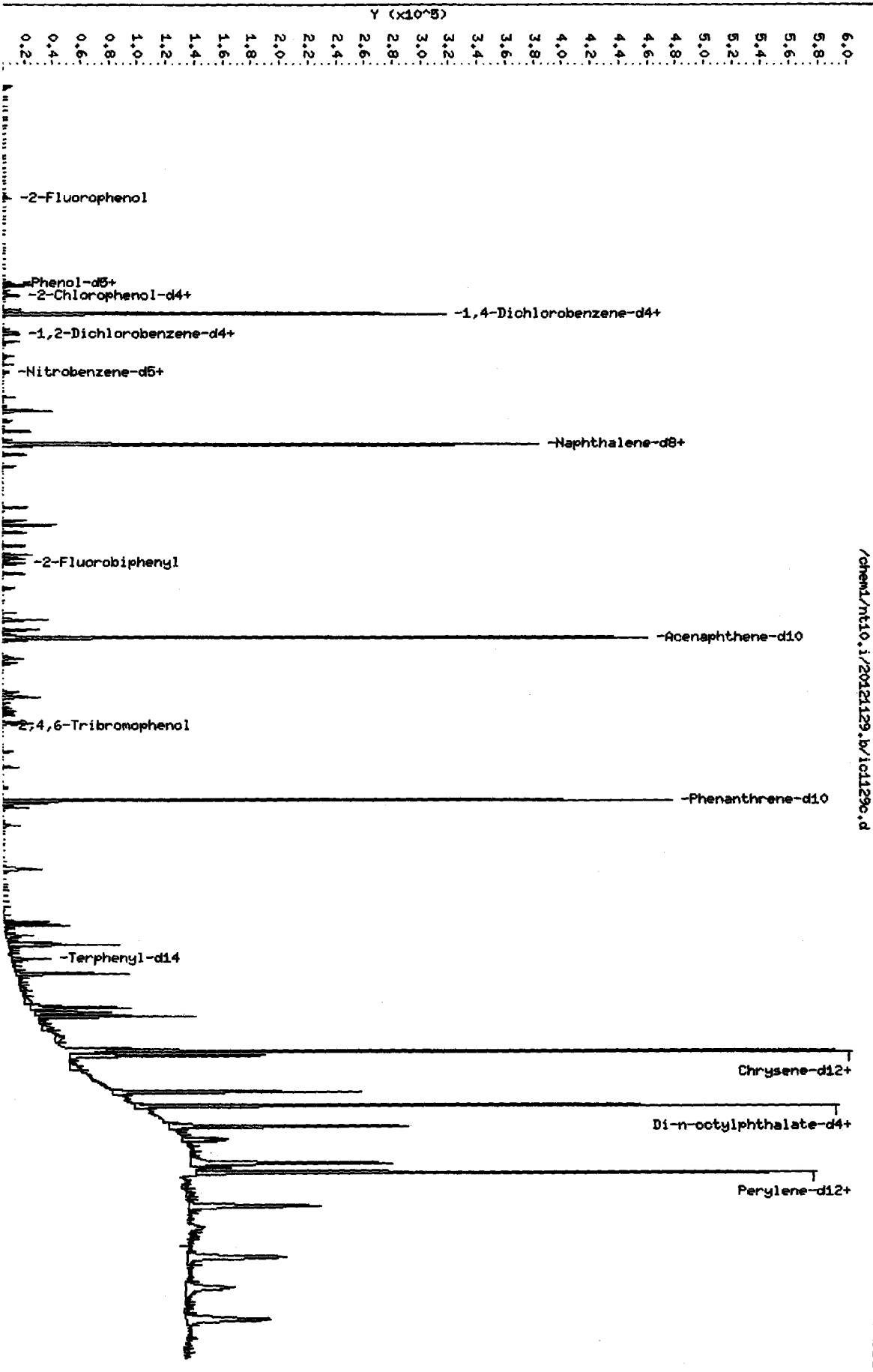
Column phase: ZB-5ms1

Instrument: nt10.1

Operator: VTS/YZ

Column diameter: 0.25

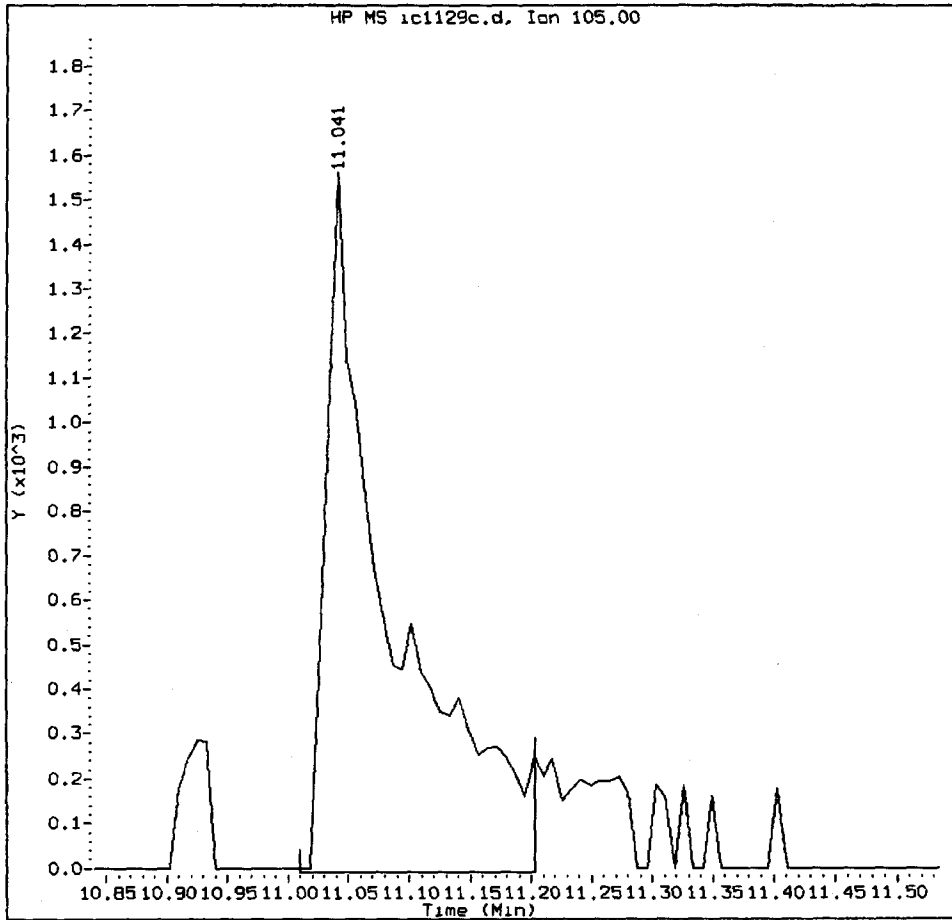
Page 11



/chem1/nt10.1/20121129.bv/1c1129c.d

ABN0.2, /chem1/nt10.i/20121129.b/ic1129c.d

Benzoic acid Amount: 0.46 Area: 6040



MANUAL INTEGRATION for Benzoic acid

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation
- 5. Other _____

Analyst: yz

Date: 12/29/12

CO-ELUTION SUMMARY FOR FILE - ic1129c.d

Lab ID: ABN0.2, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121129.b/ic1129d.d
 Lab Smp Id: ABN1
 Inj Date : 29-NOV-2012 12:24
 Operator : VTS/YZ
 Smp Info : ABN1
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121129.b/ABN.m
 Meth Date : 30-Nov-2012 10:49 yev
 Cal Date : 29-NOV-2012 12:24
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

YZ 12/04/12

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129d.d
 Calibration Sample, Level: 3
 Compound Sublist: PSDDAICAL.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.621	6.613	(0.740)	27072	1.00000	1.039
\$ 2 Phenol-d5	99	8.313	8.305	(0.929)	33767	1.00000	1.039
3 Phenol	94	8.336	8.328	(0.932)	37812	1.00000	1.099
\$ 5 2-Chlorophenol-d4	132	8.568	8.560	(0.958)	29544	1.00000	1.059
4 Bis(2-Chloroethyl)ether	93	8.491	8.483	(0.949)	26087	1.00000	1.087
6 2-Chlorophenol	128	8.599	8.591	(0.961)	34363	1.00000	1.080
7 1,3-Dichlorobenzene	146	8.877	8.869	(0.992)	33889	1.00000	1.032
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939	(1.000)	80400	4.00000	
9 1,4-Dichlorobenzene	146	8.978	8.970	(1.003)	31509	1.00000	1.015
\$ 10 1,2-Dichlorobenzene-d4	152	9.327	9.319	(1.042)	21322	1.00000	1.033
12 1,2-Dichlorobenzene	146	9.358	9.343	(1.046)	31432	1.00000	1.034
11 Benzyl alcohol	108	9.257	9.249	(1.035)	16937	1.00000	1.010
14 2,2'-oxybis(1-Chloropropane)	121	10.925	10.918	(1.221)	32530	1.00000	1.080
13 2-Methylphenol	108	9.514	9.506	(1.063)	31454	1.00000	1.067
17 Hexachloroethane	117	9.987	9.971	(1.116)	12781	1.00000	1.013
16 N-Nitroso-di-n-propylamine	70	9.855	9.855	(1.101)	17930	1.00000	1.039
15 4-Methylphenol	108	9.816	9.793	(1.097)	17469	1.00000	0.9844
\$ 18 Nitrobenzene-d5	82	10.119	10.103	(0.873)	28493	1.00000	1.035
19 Nitrobenzene	77	10.150	10.150	(0.875)	27340	1.00000	1.072
20 Isophorone	82	10.647	10.639	(0.918)	50359	1.00000	1.030
21 2-Nitrophenol	139	10.825	10.825	(0.934)	21483	1.00000	1.103
22 2,4-Dimethylphenol	107	10.918	10.910	(0.942)	61801	2.00000	2.156
23 Bis(2-Chloroethoxy)methane	93	11.126	11.118	(0.959)	30555	1.00000	1.037
24 Benzoic acid	105	11.087	11.187	(0.956)	64413	4.00000	4.663
25 2,4-Dichlorophenol	162	11.326	11.318	(0.977)	56381	2.00000	2.155
26 1,2,4-Trichlorobenzene	180	11.519	11.495	(0.993)	16895	1.00000	1.000
* 27 Naphthalene-d8	136	11.596	11.588	(1.000)	298996	4.00000	

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	--	-----	-----	-----	-----	-----
28 Naphthalene	128	11.642	11.627	(1.004)	76926	1.00000	1.040
29 4-Chloroaniline	127	11.804	11.797	(1.018)	64900	2.00000	2.124
30 Hexachlorobutadiene	225	12.044	12.036	(1.039)	16758	1.00000	0.9385
31 4-Chloro-3-methylphenol	107	12.872	12.872	(1.110)	53137	2.00000	2.137
32 2-Methylnaphthalene	142	13.143	13.135	(1.133)	56900	1.00000	1.042
33 Hexachlorocyclopentadiene	237	13.661	13.661	(0.882)	39563	2.00000	1.921
34 2,4,6-Trichlorophenol	196	13.831	13.831	(0.893)	43409	2.00000	2.013
35 2,4,5-Trichlorophenol	196	13.909	13.917	(0.898)	48047	2.00000	2.071
\$ 36 2-Fluorobiphenyl	172	14.002	13.994	(0.904)	67334	1.00000	1.025
37 2-Chloronaphthalene	162	14.211	14.211	(0.918)	54241	1.00000	1.020
38 2-Nitroaniline	65	14.505	14.512	(0.937)	25058	2.00000	2.060
39 Dimethylphthalate	163	15.000	14.992	(0.968)	60156	1.00000	1.016
40 Acenaphthylene	152	15.139	15.131	(0.978)	89732	1.00000	1.020
41 2,6-Dinitrotoluene	165	15.132	15.139	(0.977)	27764	2.00000	2.070
* 42 Acenaphthene-d10	164	15.488	15.480	(1.000)	185582	4.00000	
43 3-Nitroaniline	138	15.434	15.434	(0.996)	32184	2.00000	2.221
44 Acenaphthene	153	15.557	15.549	(1.004)	52283	1.00000	1.038
45 2,4-Dinitrophenol	184	15.658	15.665	(1.011)	25740	4.00000	3.042
46 Dibenzofuran	168	15.913	15.905	(1.027)	76589	1.00000	1.025
47 4-Nitrophenol	109	15.828	15.836	(1.022)	14604	2.00000	2.187
48 2,4-Dinitrotoluene	165	16.006	16.006	(1.033)	36689	2.00000	2.116
50 Diethylphthalate	149	16.585	16.577	(1.071)	59719	1.00000	0.9322
49 Fluorene	166	16.678	16.670	(1.077)	64126	1.00000	1.038
51 4-Chlorophenyl-phenylether	204	16.694	16.701	(1.078)	29753	1.00000	1.053
52 4-Nitroaniline	138	16.802	16.802	(1.085)	30445	2.00000	2.361
53 4,6-Dinitro-2-methylphenol	198	16.902	16.910	(0.901)	52140	4.00000	3.713
54 N-Nitrosodiphenylamine	169	16.972	16.964	(0.905)	41234	1.00000	1.057
\$ 55 2,4,6-Tribromophenol	330	17.257	17.257	(1.114)	10521	1.00000	0.9830
56 4-Bromophenyl-phenylether	248	17.774	17.789	(0.948)	18289	1.00000	1.014
57 Hexachlorobenzene	284	18.098	18.090	(0.965)	22739	1.00000	0.9914
58 Pentachlorophenol	266	18.501	18.493	(0.986)	26074	2.00000	1.803
* 59 Phenanthrene-d10	188	18.756	18.748	(1.000)	311338	4.00000	
60 Phenanthrene	178	18.802	18.802	(1.002)	82469	1.00000	1.039
61 Anthracene	178	18.903	18.895	(1.008)	88807	1.00000	1.040
62 Carbazole	167	19.259	19.274	(1.027)	74666	1.00000	1.151
63 Di-n-butylphthalate	149	20.125	20.118	(1.073)	98360	1.00000	0.9744
64 Fluoranthene	202	21.216	21.216	(1.131)	101569	1.00000	1.024
65 Pyrene	202	21.634	21.634	(0.908)	105899	1.00000	1.011
\$ 66 Terphenyl-d14	244	21.959	21.951	(0.922)	68624	1.00000	0.9696
67 Butylbenzylphthalate	149	22.904	22.896	(0.961)	42625	1.00000	0.9780
68 Benzo(a)anthracene	228	23.794	23.794	(0.999)	103753	1.00000	1.035
* 69 Chrysene-d12	240	23.825	23.825	(1.000)	347341	4.00000	
70 3,3'-Dichlorobenzidine	252	23.771	23.786	(0.998)	114847	2.00000	2.409
71 Chrysene	228	23.864	23.864	(1.002)	87370	1.00000	0.9624
72 bis(2-Ethylhexyl)phthalate	149	23.941	23.941	(0.961)	59321	1.00000	0.9411
* 134 Di-n-octylphthalate-d4	153	24.917	24.917	(1.000)	441093	4.00000	
73 Di-n-octylphthalate	149	24.924	24.924	(1.000)	102201	1.00000	1.005

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	25.582	25.598	(0.974)	102047	1.00000	0.9915
75 Benzo(k)fluoranthene	252	25.621	25.637	(0.976)	111998	1.00000	1.022
76 Benzo(a)pyrene	252	26.155	26.155	(0.996)	102567	1.00000	0.9935
* 77 Perylene-d12	264	26.256	26.256	(1.000)	340415	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.573	28.573	(1.088)	111376	1.00000	1.001
79 Dibenzo(a,h)anthracene	278	28.589	28.597	(1.089)	89605	1.00000	1.017
80 Benzo(g,h,i)perylene	276	29.249	29.257	(1.114)	93977	1.00000	0.9885
90 N-Nitrosodimethylamine	74	4.366	4.374	(0.488)	36729	2.00000	1.914
91 Aniline	93	8.383	8.375	(0.937)	74556	1.00000	1.114
93 Benzidine	184	21.479	21.495	(0.902)	79046	2.00000	2.355
103 Pyridine	79	4.397	4.405	(0.491)	32136	2.00000	2.125
105 1-methylnaphthalene	142	13.383	13.375	(1.154)	51117	1.00000	1.028
111 Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.049	(1.100)	55790	1.00000	1.063
187 Total Benzofluoranthenes	252	25.621	25.621	(0.976)	201530	2.00000	1.983
99 Perylene	252	26.303	26.326	(1.002)	94973	1.00000	0.9955
98 Retene	219	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129d.d
 Lab Smp Id: ABN1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

Level:
 Sample Type:

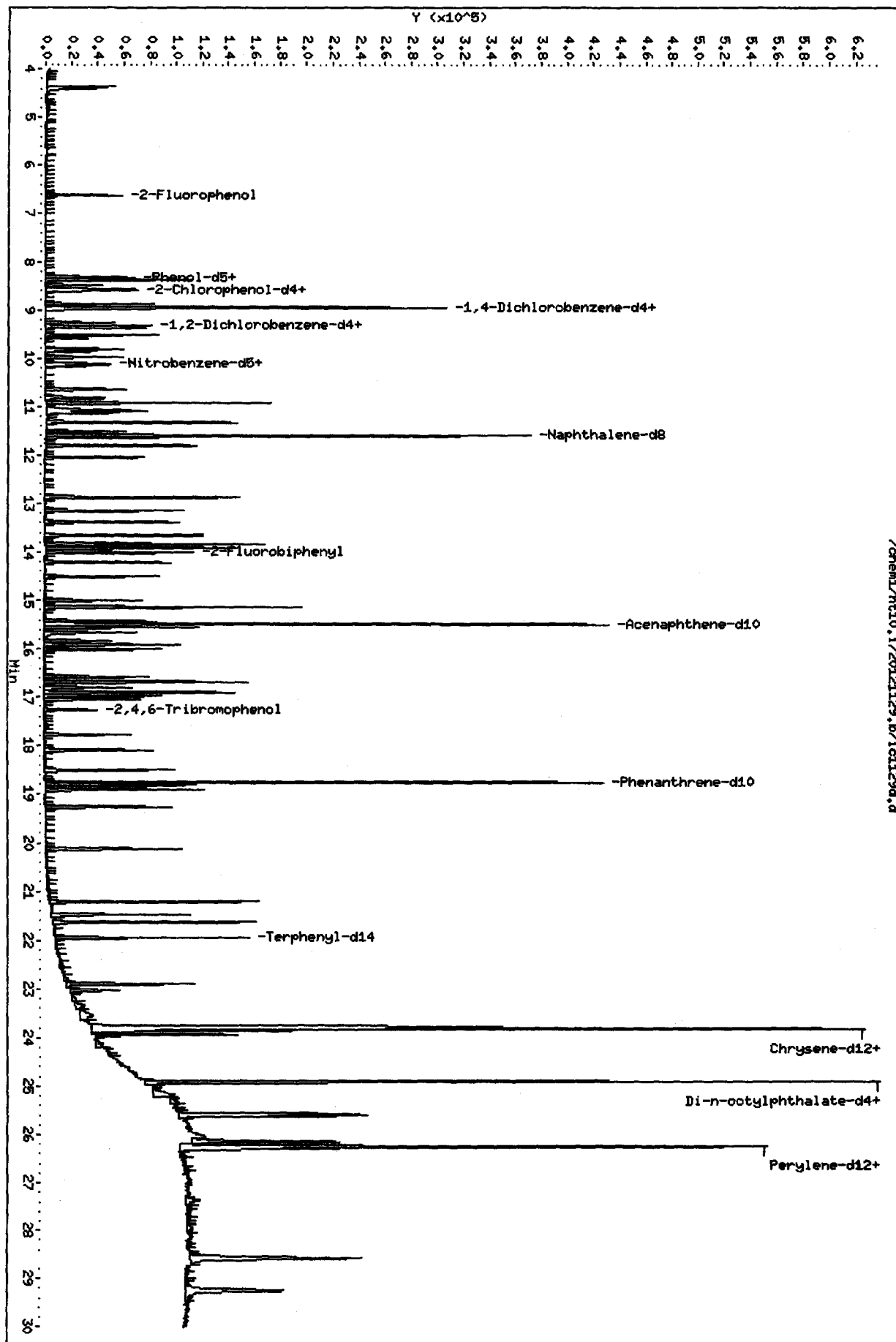
Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	80400	-1.44
27 Naphthalene-d8	299399	149700	598798	298996	-0.13
42 Acenaphthene-d10	178564	89282	357128	185582	3.93
59 Phenanthrene-d10	305410	152705	610820	311338	1.94
69 Chrysene-d12	323853	161926	647706	347341	7.25
134 Di-n-octylphthala	427845	213922	855690	441093	3.10
77 Perylene-d12	305316	152658	610632	340415	11.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.04
69 Chrysene-d12	23.82	23.32	24.32	23.83	0.00
134 Di-n-octylphthala	24.92	24.42	25.42	24.92	0.00
77 Perylene-d12	26.26	25.76	26.76	26.26	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.

/chem/nt10.i/20121129.b/1c1129d.d



CO-ELUTION SUMMARY FOR FILE - ic1129d.d

Lab ID: ABN1, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121129.b/ic1129e.d
 Lab Smp Id: ABN10
 Inj Date : 29-NOV-2012 13:02
 Operator : VTS/YZ
 Smp Info : ABN10
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121129.b/ABN.m
 Meth Date : 30-Nov-2012 10:49 yev
 Cal Date : 29-NOV-2012 13:02
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129e.d
 Calibration Sample, Level: 6
 Compound Sublist: PSDDAICAL.sub

YZ 12/1/12

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.621	6.613 (0.740)	232577	10.0000	9.115
\$ 2 Phenol-d5	99	8.321	8.305 (0.930)	281285	10.0000	8.905
3 Phenol	94	8.344	8.328 (0.933)	248404	10.0000	7.710
\$ 5 2-Chlorophenol-d4	132	8.576	8.560 (0.958)	236986	10.0000	8.771
4 Bis(2-Chloroethyl)ether	93	8.491	8.483 (0.949)	191337	10.0000	8.347
6 2-Chlorophenol	128	8.599	8.591 (0.961)	274169	10.0000	8.871
7 1,3-Dichlorobenzene	146	8.877	8.869 (0.992)	274109	10.0000	8.657
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939 (1.000)	81024	4.00000	
9 1,4-Dichlorobenzene	146	8.986	8.970 (1.004)	250044	10.0000	8.418
\$ 10 1,2-Dichlorobenzene-d4	152	9.335	9.319 (1.043)	157055	10.0000	8.042
12 1,2-Dichlorobenzene	146	9.358	9.343 (1.046)	206993	10.0000	7.354
11 Benzyl alcohol	108	9.265	9.249 (1.036)	143668	10.0000	8.831
14 2,2'-oxybis(1-Chloropropane)	121	10.933	10.918 (1.222)	234431	10.0000	8.192
13 2-Methylphenol	108	9.521	9.506 (1.064)	229019	10.0000	8.180
17 Hexachloroethane	117	9.987	9.971 (1.116)	107820	10.0000	8.815
16 N-Nitroso-di-n-propylamine	70	9.863	9.855 (1.102)	101572	10.0000	6.521
15 4-Methylphenol	108	9.816	9.793 (1.097)	174894	10.0000	9.834
\$ 18 Nitrobenzene-d5	82	10.119	10.103 (0.873)	243518	10.0000	9.887
19 Nitrobenzene	77	10.158	10.150 (0.876)	191540	10.0000	8.721
20 Isophorone	82	10.654	10.639 (0.919)	407425	10.0000	9.446
21 2-Nitrophenol	139	10.833	10.825 (0.934)	205962	10.0000	11.27
22 2,4-Dimethylphenol	107	10.933	10.910 (0.943)	451403	20.0000	18.09
23 Bis(2-Chloroethoxy)methane	93	11.133	11.118 (0.960)	217923	10.0000	8.615
24 Benzoic acid	105	11.280	11.187 (0.973)	792268	40.0000	55.57
25 2,4-Dichlorophenol	162	11.326	11.318 (0.977)	505574	20.0000	21.12
26 1,2,4-Trichlorobenzene	180	11.519	11.495 (0.993)	145909	10.0000	9.712
* 27 Naphthalene-d8	136	11.596	11.588 (1.000)	268550	4.00000	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	--	-----	-----	-----	-----	-----
28 Naphthalene	128	11.642	11.627 (1.004)		575823	10.0000	8.967
29 4-Chloroaniline	127	11.812	11.797 (1.019)		490108	20.0000	18.35
30 Hexachlorobutadiene	225	12.051	12.036 (1.039)		177814	10.0000	10.79
31 4-Chloro-3-methylphenol	107	12.879	12.872 (1.111)		442499	20.0000	19.86
32 2-Methylnaphthalene	142	13.150	13.135 (1.134)		441877	10.0000	9.238
33 Hexachlorocyclopentadiene	237	13.661	13.661 (0.882)		414555	20.0000	22.00
34 2,4,6-Trichlorophenol	196	13.839	13.831 (0.894)		407608	20.0000	21.28
35 2,4,5-Trichlorophenol	196	13.916	13.917 (0.899)		419858	20.0000	20.61
\$ 36 2-Fluorobiphenyl	172	14.009	13.994 (0.905)		520601	10.0000	9.325
37 2-Chloronaphthalene	162	14.218	14.211 (0.918)		452146	10.0000	9.840
38 2-Nitroaniline	65	14.520	14.512 (0.938)		219049	20.0000	20.54
39 Dimethylphthalate	163	15.008	14.992 (0.969)		530675	10.0000	10.23
40 Acenaphthylene	152	15.147	15.131 (0.978)		695037	10.0000	9.300
41 2,6-Dinitrotoluene	165	15.139	15.139 (0.978)		233343	20.0000	20.02
* 42 Acenaphthene-d10	164	15.488	15.480 (1.000)		161271	4.00000	
43 3-Nitroaniline	138	15.449	15.434 (0.998)		282213	20.0000	21.75
44 Acenaphthene	153	15.565	15.549 (1.005)		407313	10.0000	9.467
45 2,4-Dinitrophenol	184	15.681	15.665 (1.012)		416868	40.0000	49.77
46 Dibenzofuran	168	15.920	15.905 (1.028)		593929	10.0000	9.348
47 4-Nitrophenol	109	15.843	15.836 (1.023)		150190	20.0000	24.11
48 2,4-Dinitrotoluene	165	16.013	16.006 (1.034)		317542	20.0000	20.79
50 Diethylphthalate	149	16.601	16.577 (1.072)		572948	10.0000	10.22
49 Fluorene	166	16.686	16.670 (1.077)		490974	10.0000	9.343
51 4-Chlorophenyl-phenylether	204	16.701	16.701 (1.078)		238606	10.0000	9.785
52 4-Nitroaniline	138	16.825	16.802 (1.086)		183618	20.0000	17.16
53 4,6-Dinitro-2-methylphenol	198	16.925	16.910 (0.902)		603603	40.0000	41.50
54 N-Nitrosodiphenylamine	169	16.987	16.964 (0.905)		320921	10.0000	8.498
\$ 55 2,4,6-Tribromophenol	330	17.272	17.257 (1.115)		107755	10.0000	11.14
56 4-Bromophenyl-phenylether	248	17.781	17.789 (0.948)		169079	10.0000	9.408
57 Hexachlorobenzene	284	18.106	18.090 (0.965)		205074	10.0000	9.069
58 Pentachlorophenol	266	18.508	18.493 (0.986)		324348	20.0000	21.33
* 59 Phenanthrene-d10	188	18.764	18.748 (1.000)		316450	4.00000	
60 Phenanthrene	178	18.810	18.802 (1.002)		662755	10.0000	8.597
61 Anthracene	178	18.911	18.895 (1.008)		689644	10.0000	8.378
62 Carbazole	167	19.267	19.274 (1.027)		530049	10.0000	8.453
63 Di-n-butylphthalate	149	20.125	20.118 (1.073)		960002	10.0000	9.510
64 Fluoranthene	202	21.224	21.216 (1.131)		894345	10.0000	9.132
65 Pyrene	202	21.642	21.634 (0.908)		880462	10.0000	8.238
\$ 66 Terphenyl-d14	244	21.959	21.951 (0.921)		612144	10.0000	8.424
67 Butylbenzylphthalate	149	22.903	22.896 (0.961)		378896	10.0000	8.458
68 Benzo(a)anthracene	228	23.809	23.794 (0.999)		916647	10.0000	8.803
* 69 Chrysene-d12	240	23.833	23.825 (1.000)		375349	4.00000	
70 3,3'-Dichlorobenzidine	252	23.779	23.786 (0.998)		705688	20.0000	15.31
71 Chrysene	228	23.879	23.864 (1.002)		875465	10.0000	9.170
72 bis(2-Ethylhexyl)phthalate	149	23.941	23.941 (0.961)		626035	10.0000	9.787
* 134 Di-n-octylphthalate-d4	153	24.924	24.917 (1.000)		450764	4.00000	
73 Di-n-octylphthalate	149	24.932	24.924 (1.000)		934613	10.0000	9.227

Compounds	QUANT SIG		AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
74 Benzo(b)fluoranthene	252	25.590	25.598	(0.974)	878456	10.0000	9.279	
75 Benzo(k)fluoranthene	252	25.629	25.637	(0.976)	1057427	10.0000	10.18	
76 Benzo(a)pyrene	252	26.163	26.155	(0.996)	886981	10.0000	9.326	
* 77 Perylene-d12	264	26.264	26.256	(1.000)	320675	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.589	28.573	(1.089)	994357	10.0000	9.609	
79 Dibenzo(a,h)anthracene	278	28.620	28.597	(1.090)	786525	10.0000	9.604	
80 Benzo(g,h,i)perylene	276	29.272	29.257	(1.115)	850474	10.0000	9.617	
90 N-Nitrosodimethylamine	74	4.373	4.374	(0.489)	309046	20.0000	16.83	
91 Aniline	93	8.383	8.375	(0.937)	586891	10.0000	8.993	
93 Benzidine	184	21.487	21.495	(0.902)	567994	20.0000	16.56	
103 Pyridine	79	4.381	4.405	(0.490)	204698	20.0000	14.63	
105 1-methylnaphthalene	142	13.382	13.375	(1.154)	409862	10.0000	9.372	
111 Azobenzene (1,2-DP-Hydrazine)	77	17.056	17.049	(1.101)	438954	10.0000	9.717	
187 Total Benzofluoranthenes	252	25.629	25.621	(0.976)	1821720	20.0000	19.26	
99 Perylene	252	26.318	26.326	(1.002)	847744	10.0000	9.569	
98 Retene	219	Compound Not Detected.						
120 2,3,4,6-Tetrachlorophenol	232	16.307	16.284	(1.053)	793	10.0000	18.84	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129e.d
 Lab Smp Id: ABN10
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

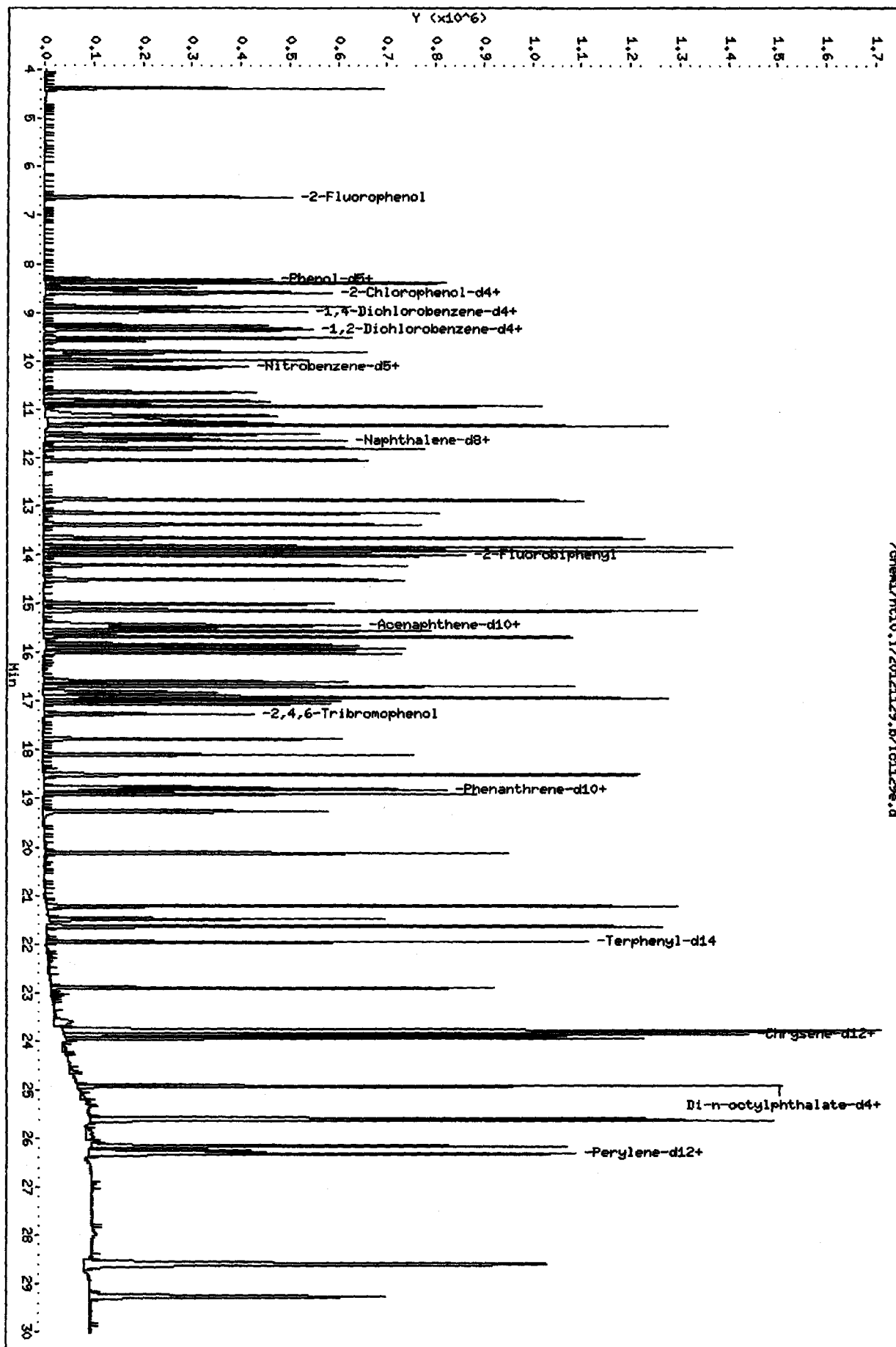
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	81024	-0.67
27 Naphthalene-d8	299399	149700	598798	268550	-10.30
42 Acenaphthene-d10	178564	89282	357128	161271	-9.68
59 Phenanthrene-d10	305410	152705	610820	316450	3.61
69 Chrysene-d12	323853	161926	647706	375349	15.90
134 Di-n-octylphthala	427845	213922	855690	450764	5.36
77 Perylene-d12	305316	152658	610632	320675	5.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.08
69 Chrysene-d12	23.82	23.32	24.32	23.83	0.03
134 Di-n-octylphthala	24.92	24.42	25.42	24.92	0.03
77 Perylene-d12	26.26	25.76	26.76	26.26	0.03

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.



CO-ELUTION SUMMARY FOR FILE - ic1129e.d

Lab ID: ABN10, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121129.b/ic1129g.d

Lab Smp Id: ABN2.5

Inj Date : 29-NOV-2012 14:16

Operator : VTS/YZ

Smp Info : ABN2.5

Misc Info :

Comment : 1ul Injection

Method : /chem1/nt10.i/20121129.b/ABN.m

Meth Date : 30-Nov-2012 10:49 yev

Cal Date : 29-NOV-2012 14:16

Als bottle: 8

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 3.50

Inst ID: nt10.i

Quant Type: ISTD

Cal File: ic1129g.d

Calibration Sample, Level: 4

Compound Sublist: PSSDAICAL.sub

Y2 12/01/12

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
\$ 1 2-Fluorophenol	112	6.621	6.613	(0.740)	65834	2.50000	2.621
\$ 2 Phenol-d5	99	8.313	8.305	(0.929)	82065	2.50000	2.635
3 Phenol	94	8.336	8.328	(0.932)	86285	2.50000	2.699
\$ 5 2-Chlorophenol-d4	132	8.568	8.560	(0.958)	70543	2.50000	2.645
4 Bis(2-Chloroethyl) ether	93	8.491	8.483	(0.949)	63151	2.50000	2.759
6 2-Chlorophenol	128	8.599	8.591	(0.961)	79627	2.50000	2.618
7 1,3-Dichlorobenzene	146	8.877	8.869	(0.992)	81707	2.50000	2.621
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939	(1.000)	78814	4.00000	
9 1,4-Dichlorobenzene	146	8.978	8.970	(1.003)	77890	2.50000	2.654
\$ 10 1,2-Dichlorobenzene-d4	152	9.327	9.319	(1.042)	50356	2.50000	2.619
12 1,2-Dichlorobenzene	146	9.358	9.343	(1.046)	72914	2.50000	2.629
11 Benzyl alcohol	108	9.257	9.249	(1.035)	38888	2.50000	2.466
14 2,2'-oxybis(1-Chloropropane)	121	10.918	10.918	(1.220)	70940	2.50000	2.539
13 2-Methylphenol	108	9.514	9.506	(1.063)	75393	2.50000	2.710
17 Hexachloroethane	117	9.979	9.971	(1.115)	30496	2.50000	2.550
16 N-Nitroso-di-n-propylamine	70	9.855	9.855	(1.101)	40733	2.50000	2.648
15 4-Methylphenol	108	9.816	9.793	(1.097)	37752	2.50000	2.239
\$ 18 Nitrobenzene-d5	82	10.111	10.103	(0.872)	69883	2.50000	2.598
19 Nitrobenzene	77	10.150	10.150	(0.875)	63279	2.50000	2.630
20 Isophorone	82	10.639	10.639	(0.917)	120930	2.50000	2.574
21 2-Nitrophenol	139	10.825	10.825	(0.934)	51078	2.50000	2.568
22 2,4-Dimethylphenol	107	10.918	10.910	(0.942)	136365	5.00000	5.044
23 Bis(2-Chloroethoxy)methane	93	11.126	11.118	(0.959)	68685	2.50000	2.509
24 Benzoic acid	105	11.133	11.187	(0.960)	197445	10.00000	12.113
25 2,4-Dichlorophenol	162	11.318	11.318	(0.976)	134801	5.00000	5.164
26 1,2,4-Trichlorobenzene	180	11.519	11.495	(0.993)	38087	2.50000	2.374
* 27 Naphthalene-d8	136	11.596	11.588	(1.000)	290366	4.00000	

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
28 Naphthalene	128	11.634	11.627	(1.003)	173330	2.50000	2.497
29 4-Chloroaniline	127	11.797	11.797	(1.017)	155287	5.00000	5.297
30 Hexachlorobutadiene	225	12.044	12.036	(1.039)	49911	2.50000	2.736
31 4-Chloro-3-methylphenol	107	12.872	12.872	(1.110)	125834	5.00000	5.177
32 2-Methylnaphthalene	142	13.143	13.135	(1.133)	133948	2.50000	2.572
33 Hexachlorocyclopentadiene	237	13.661	13.661	(0.882)	102250	5.00000	4.888
34 2,4,6-Trichlorophenol	196	13.831	13.831	(0.893)	109920	5.00000	5.105
35 2,4,5-Trichlorophenol	196	13.909	13.917	(0.898)	120725	5.00000	5.237
\$ 36 2-Fluorobiphenyl	172	14.002	13.994	(0.904)	162234	2.50000	2.578
37 2-Chloronaphthalene	162	14.211	14.211	(0.918)	132206	2.50000	2.558
38 2-Nitroaniline	65	14.512	14.512	(0.937)	61977	5.00000	5.156
39 Dimethylphthalate	163	15.000	14.992	(0.968)	147770	2.50000	2.538
40 Acenaphthylene	152	15.147	15.131	(0.978)	211108	2.50000	2.521
41 2,6-Dinitrotoluene	165	15.139	15.139	(0.978)	67312	5.00000	5.130
* 42 Acenaphthene-d10	164	15.488	15.480	(1.000)	180347	4.00000	
43 3-Nitroaniline	138	15.434	15.434	(0.996)	72677	5.00000	5.008
44 Acenaphthene	153	15.557	15.549	(1.004)	119719	2.50000	2.491
45 2,4-Dinitrophenol	184	15.665	15.665	(1.011)	94427	10.00000	10.06
46 Dibenzofuran	168	15.921	15.905	(1.028)	180378	2.50000	2.531
47 4-Nitrophenol	109	15.835	15.836	(1.022)	35532	5.00000	5.080
48 2,4-Dinitrotoluene	165	16.006	16.006	(1.033)	90512	5.00000	5.237
50 Diethylphthalate	149	16.593	16.577	(1.071)	141034	2.50000	2.295
49 Fluorene	166	16.686	16.670	(1.077)	150940	2.50000	2.554
51 4-Chlorophenyl-phenylether	204	16.701	16.701	(1.078)	68582	2.50000	2.512
52 4-Nitroaniline	138	16.810	16.802	(1.085)	57888	5.00000	4.870
53 4,6-Dinitro-2-methylphenol	198	16.910	16.910	(0.901)	147413	10.00000	10.36
54 N-Nitrosodiphenylamine	169	16.979	16.964	(0.905)	96743	2.50000	2.620
\$ 55 2,4,6-Tribromophenol	330	17.265	17.257	(1.115)	26815	2.50000	2.484
56 4-Bromophenyl-phenylether	248	17.781	17.789	(0.948)	44396	2.50000	2.545
57 Hexachlorobenzene	284	18.106	18.090	(0.965)	53875	2.50000	2.473
58 Pentachlorophenol	266	18.508	18.493	(0.986)	75129	5.00000	5.085
* 59 Phenanthrene-d10	188	18.764	18.748	(1.000)	305764	4.00000	
60 Phenanthrene	178	18.818	18.802	(1.003)	190253	2.50000	2.543
61 Anthracene	178	18.911	18.895	(1.008)	212138	2.50000	2.632
62 Carbazole	167	19.274	19.274	(1.027)	152701	2.50000	2.516
63 Di-n-butylphthalate	149	20.133	20.118	(1.073)	243682	2.50000	2.499
64 Fluoranthene	202	21.224	21.216	(1.131)	245312	2.50000	2.573
65 Pyrene	202	21.650	21.634	(0.908)	256146	2.50000	2.695
\$ 66 Terphenyl-d14	244	21.967	21.951	(0.921)	165901	2.50000	2.594
67 Butylbenzylphthalate	149	22.911	22.896	(0.961)	99911	2.50000	2.546
68 Benzo(a)anthracene	228	23.810	23.794	(0.999)	240793	2.50000	2.620
* 69 Chrysene-d12	240	23.841	23.825	(1.000)	327280	4.00000	
70 3,3'-Dichlorobenzidine	252	23.786	23.786	(0.998)	200521	5.00000	4.991
71 Chrysene	228	23.879	23.864	(1.002)	197366	2.50000	2.396
72 bis(2-Ethylhexyl)phthalate	149	23.957	23.941	(0.961)	132547	2.50000	2.234
* 134 Di-n-octylphthalate-d4	153	24.932	24.917	(1.000)	429286	4.00000	
73 Di-n-octylphthalate	149	24.940	24.924	(1.000)	242435	2.50000	2.511

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	25.598	25.598	(0.974)	233704	2.50000	2.413
75 Benzo(k)fluoranthene	252	25.637	25.637	(0.976)	281700	2.50000	2.602
76 Benzo(a)pyrene	252	26.171	26.155	(0.996)	219761	2.50000	2.287
* 77 Perylene-d12	264	26.279	26.256	(1.000)	330902	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.605	28.573	(1.088)	268395	2.50000	2.511
79 Dibenzo(a,h)anthracene	278	28.636	28.597	(1.090)	213294	2.50000	2.519
80 Benzo(g,h,i)perylene	276	29.288	29.257	(1.114)	226917	2.50000	2.489
90 N-Nitrosodimethylamine	74	4.366	4.374	(0.488)	90472	5.00000	5.051
91 Aniline	93	8.375	8.375	(0.936)	157822	2.50000	2.489
93 Benzidine	184	21.495	21.495	(0.902)	97794	5.00000	3.513
103 Pyridine	79	4.389	4.405	(0.491)	72865	5.00000	5.280
105 1-methylnaphthalene	142	13.383	13.375	(1.154)	122280	2.50000	2.568
111 Azobenzene (1,2-DP-Hydrazine)	77	17.049	17.049	(1.101)	125533	2.50000	2.488
187 Total Benzofluoranthenes	252	25.637	25.621	(0.976)	478269	5.00000	4.920
99 Perylene	252	26.326	26.326	(1.002)	225177	2.50000	2.470
98 Retene	219						Compound Not Detected.
120 2,3,4,6-Tetrachlorophenol	232						Compound Not Detected.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129g.d
 Lab Smp Id: ABN2.5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

Level:
 Sample Type:

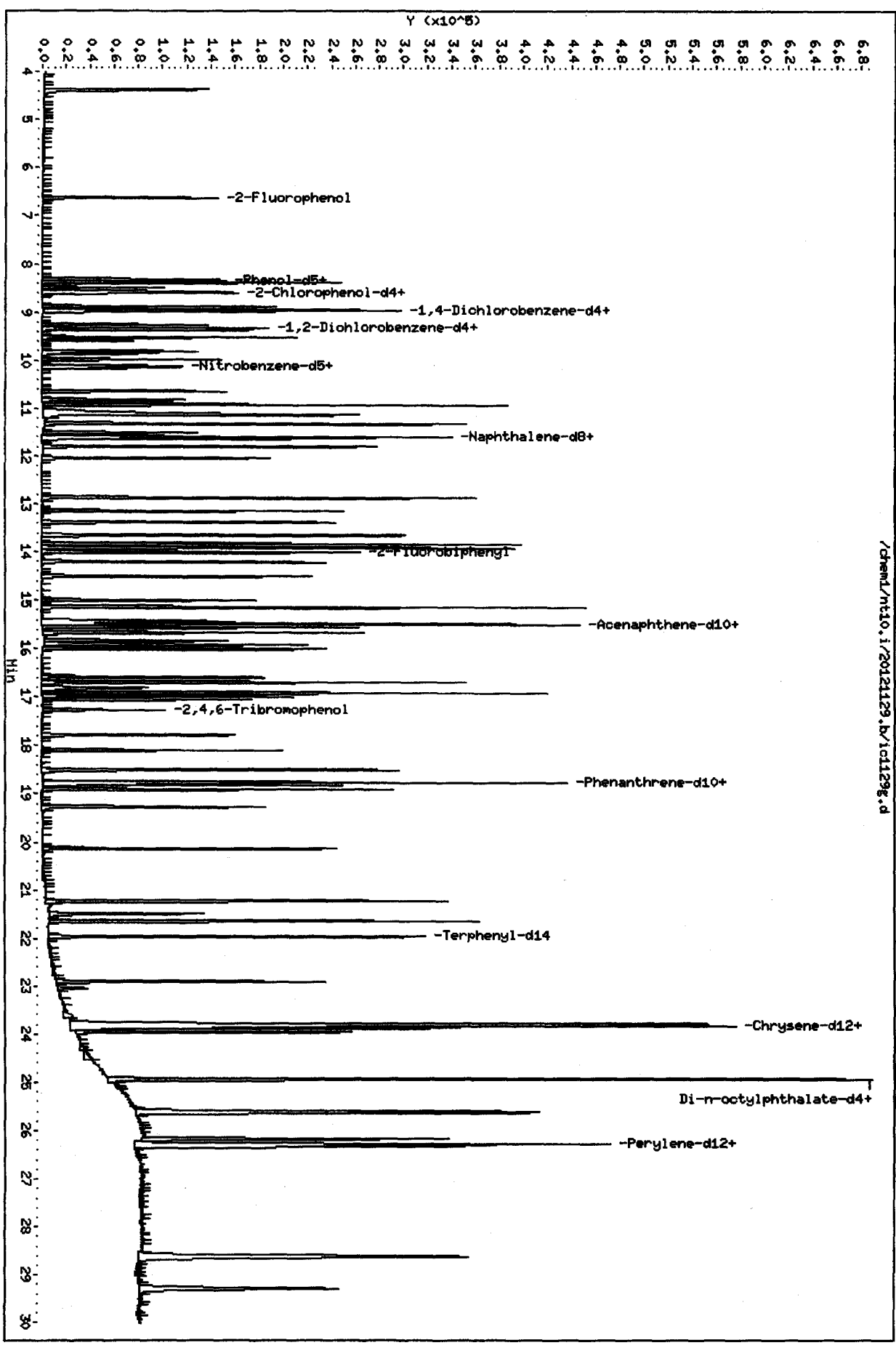
Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	78814	-3.38
27 Naphthalene-d8	299399	149700	598798	290366	-3.02
42 Acenaphthene-d10	178564	89282	357128	180347	1.00
59 Phenanthrene-d10	305410	152705	610820	305764	0.12
69 Chrysene-d12	323853	161926	647706	327280	1.06
134 Di-n-octylphthala	427845	213922	855690	429286	0.34
77 Perylene-d12	305316	152658	610632	330902	8.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.08
69 Chrysene-d12	23.82	23.32	24.32	23.84	0.07
134 Di-n-octylphthala	24.92	24.42	25.42	24.93	0.06
77 Perylene-d12	26.26	25.76	26.76	26.28	0.09

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.

/chem1/n10.1/20121129.1.b/1c1129g.d



CO-ELUTION SUMMARY FOR FILE - ic1129g.d

Lab ID: ABN2.5, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D *Y2 12/21/12*
Data file : /chem1/nt10.i/20121129.b/ic1129i.d
Lab Smp Id: ABN0.5
Inj Date : 29-NOV-2012 15:30
Operator : VTS/YZ
Smp Info : ABN0.5
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt10.i/20121129.b/ABN.m
Meth Date : 30-Nov-2012 10:49 yev
Cal Date : 29-NOV-2012 15:30
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: ic1129i.d
Calibration Sample, Level: 2
Compound Sublist: PSDDAICAL.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	-----	-----	-----	-----	-----
\$ 1 2-Fluorophenol	112	6.621	6.613	(0.740)	13246	0.50000	0.5089
\$ 2 Phenol-d5	99	8.313	8.305	(0.929)	16236	0.50000	0.5041
3 Phenol	94	8.336	8.328	(0.932)	19261	0.50000	0.5677
\$ 5 2-Chlorophenol-d4	132	8.568	8.560	(0.958)	14771	0.50000	0.5301
4 Bis(2-Chloroethyl)ether	93	8.483	8.483	(0.948)	14869	0.50000	0.6033
6 2-Chlorophenol	128	8.591	8.591	(0.960)	17422	0.50000	0.5448
7 1,3-Dichlorobenzene	146	8.877	8.869	(0.992)	17790	0.50000	0.5432
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939	(1.000)	81366	4.00000	
9 1,4-Dichlorobenzene	146	8.978	8.970	(1.003)	16432	0.50000	0.5348
\$ 10 1,2-Dichlorobenzene-d4	152	9.327	9.319	(1.042)	11338	0.50000	0.5580
12 1,2-Dichlorobenzene	146	9.351	9.343	(1.045)	16867	0.50000	0.5721
11 Benzyl alcohol	108	9.257	9.249	(1.035)	7428	0.50000	0.4630
14 2,2'-oxybis(1-Chloropropane)	121	10.918	10.918	(1.220)	16377	0.50000	0.5552
13 2-Methylphenol	108	9.514	9.506	(1.063)	15671	0.50000	0.5375
17 Hexachloroethane	117	9.979	9.971	(1.115)	7009	0.50000	0.5552
16 N-Nitroso-di-n-propylamine	70	9.855	9.855	(1.101)	8941	0.50000	0.5515
15 4-Methylphenol	108	9.816	9.793	(1.097)	8376	0.50000	0.4843
\$ 18 Nitrobenzene-d5	82	10.111	10.103	(0.872)	14640	0.50000	0.5287
19 Nitrobenzene	77	10.150	10.150	(0.875)	13520	0.50000	0.5427
20 Isophorone	82	10.639	10.639	(0.917)	24631	0.50000	0.5125
21 2-Nitrophenol	139	10.825	10.825	(0.934)	9931	0.50000	0.4921
22 2,4-Dimethylphenol	107	10.918	10.910	(0.942)	31140	1.00000	1.107
23 Bis(2-Chloroethoxy)methane	93	11.118	11.118	(0.959)	15698	0.50000	0.5518
24 Benzoic acid	105	11.056	11.187	(0.953)	22106	2.00000	1.412
25 2,4-Dichlorophenol	162	11.318	11.318	(0.976)	28421	1.00000	1.057
26 1,2,4-Trichlorobenzene	180	11.519	11.495	(0.993)	8481	0.50000	0.5161
* 27 Naphthalene-d8	136	11.596	11.588	(1.000)	295539	4.00000	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	=====	=====	-----	-----	
28 Naphthalene	128	11.634	11.627	(1.003)	39081	0.50000	0.5435
29 4-Chloroaniline	127	11.797	11.797	(1.017)	32182	1.00000	1.065
30 Hexachlorobutadiene	225	12.044	12.036	(1.039)	8842	0.50000	0.4800
31 4-Chloro-3-methylphenol	107	12.872	12.872	(1.110)	25637	1.00000	1.030
32 2-Methylnaphthalene	142	13.143	13.135	(1.133)	28167	0.50000	0.5258
33 Hexachlorocyclopentadiene	237	13.661	13.661	(0.882)	19105	1.00000	0.9194
34 2,4,6-Trichlorophenol	196	13.831	13.831	(0.893)	20660	1.00000	0.9553
35 2,4,5-Trichlorophenol	196	13.917	13.917	(0.899)	22022	1.00000	0.9517
\$ 36 2-Fluorobiphenyl	172	14.009	13.994	(0.905)	34647	0.50000	0.5356
37 2-Chloronaphthalene	162	14.211	14.211	(0.918)	28353	0.50000	0.5340
38 2-Nitroaniline	65	14.512	14.512	(0.937)	11391	1.00000	0.9453
39 Dimethylphthalate	163	15.000	14.992	(0.968)	29649	0.50000	0.5021
40 Acenaphthylene	152	15.147	15.131	(0.978)	46973	0.50000	0.5437
41 2,6-Dinitrotoluene	165	15.139	15.139	(0.978)	13210	1.00000	0.9945
* 42 Acenaphthene-d10	164	15.488	15.480	(1.000)	182776	4.00000	
43 3-Nitroaniline	138	15.434	15.434	(0.996)	15185	1.00000	1.027
44 Acenaphthene	153	15.557	15.549	(1.004)	26348	0.50000	0.5336
45 2,4-Dinitrophenol	184	15.665	15.665	(1.011)	8764	2.00000	1.195
46 Dibenzofuran	168	15.913	15.905	(1.027)	39270	0.50000	0.5359
47 4-Nitrophenol	109	15.836	15.836	(1.022)	6125	1.00000	0.8842
48 2,4-Dinitrotoluene	165	16.006	16.006	(1.033)	16908	1.00000	0.9709
50 Diethylphthalate	149	16.585	16.577	(1.071)	29714	0.50000	0.4808
49 Fluorene	166	16.686	16.670	(1.077)	32679	0.50000	0.5375
51 4-Chlorophenyl-phenylether	204	16.701	16.701	(1.078)	15398	0.50000	0.5462
52 4-Nitroaniline	138	16.802	16.802	(1.085)	13202	1.00000	1.079
53 4,6-Dinitro-2-methylphenol	198	16.910	16.910	(0.901)	21956	2.00000	1.567
54 N-Nitrosodiphenylamine	169	16.979	16.964	(0.905)	21088	0.50000	0.5410
\$ 55 2,4,6-Tribromophenol	330	17.265	17.257	(1.115)	4946	0.50000	0.4594
56 4-Bromophenyl-phenylether	248	17.789	17.789	(0.948)	9029	0.50000	0.4989
57 Hexachlorobenzene	284	18.106	18.090	(0.965)	11728	0.50000	0.5154
58 Pentachlorophenol	266	18.508	18.493	(0.986)	11431	1.00000	0.7853
* 59 Phenanthrene-d10	188	18.764	18.748	(1.000)	317404	4.00000	
60 Phenanthrene	178	18.810	18.802	(1.002)	41613	0.50000	0.5295
61 Anthracene	178	18.911	18.895	(1.008)	44250	0.50000	0.5238
62 Carbazole	167	19.274	19.274	(1.027)	38193	0.50000	0.5855
63 Di-n-butylphthalate	149	20.133	20.118	(1.073)	46713	0.50000	0.4674
64 Fluoranthene	202	21.232	21.216	(1.132)	49780	0.50000	0.5025
65 Pyrene	202	21.650	21.634	(0.908)	53102	0.50000	0.5217
\$ 66 Terphenyl-d14	244	21.967	21.951	(0.921)	34368	0.50000	0.5051
67 Butylbenzylphthalate	149	22.919	22.896	(0.961)	19898	0.50000	0.4812
68 Benzo(a)anthracene	228	23.810	23.794	(0.999)	52358	0.50000	0.5302
* 69 Chrysene-d12	240	23.841	23.825	(1.000)	347450	4.00000	
70 3,3'-Dichlorobenzidine	252	23.786	23.786	(0.998)	55368	1.00000	1.175
71 Chrysene	228	23.879	23.864	(1.002)	44545	0.50000	0.5078
72 bis(2-Ethylhexyl)phthalate	149	23.957	23.941	(0.961)	28827	0.50000	0.4956
* 134 Di-n-octylphthalate-d4	153	24.932	24.917	(1.000)	421593	4.00000	
73 Di-n-octylphthalate	149	24.940	24.924	(1.000)	49627	0.50000	0.5193

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ug/mL)	ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	25.598	25.598	(0.974)	48912	0.50000	0.4918
75 Benzo(k)fluoranthene	252	25.637	25.637	(0.976)	58789	0.50000	0.5224
76 Benzo(a)pyrene	252	26.171	26.155	(0.996)	44371	0.50000	0.4561
* 77 Perylene-d12	264	26.279	26.256	(1.000)	340912	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.605	28.573	(1.088)	55465	0.50000	0.5030
79 Dibenzo(a,h)anthracene	278	28.636	28.597	(1.090)	44431	0.50000	0.5078
80 Benzo(g,h,i)perylene	276	29.280	29.257	(1.114)	48319	0.50000	0.5120
90 N-Nitrosodimethylamine	74	4.374	4.374	(0.489)	19047	1.00000	1.025
91 Aniline	93	8.375	8.375	(0.936)	40546	0.50000	0.5956
93 Benzidine	184	21.495	21.495	(0.902)	40793	1.00000	1.298
103 Pyridine	79	4.405	4.405	(0.492)	16399	1.00000	1.123
105 1-methylnaphthalene	142	13.383	13.375	(1.154)	26358	0.50000	0.5361
111 Azobenzene (1,2-DP-Hydrazine)	77	17.049	17.049	(1.101)	28602	0.50000	0.5485
187 Total Benzofluoranthenes	252	25.637	25.621	(0.976)	101219	1.00000	1.009
99 Perylene	252	26.326	26.326	(1.002)	48036	0.50000	0.5096
98 Retene	219	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic1129i.d
 Lab Smp Id: ABN0.5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54

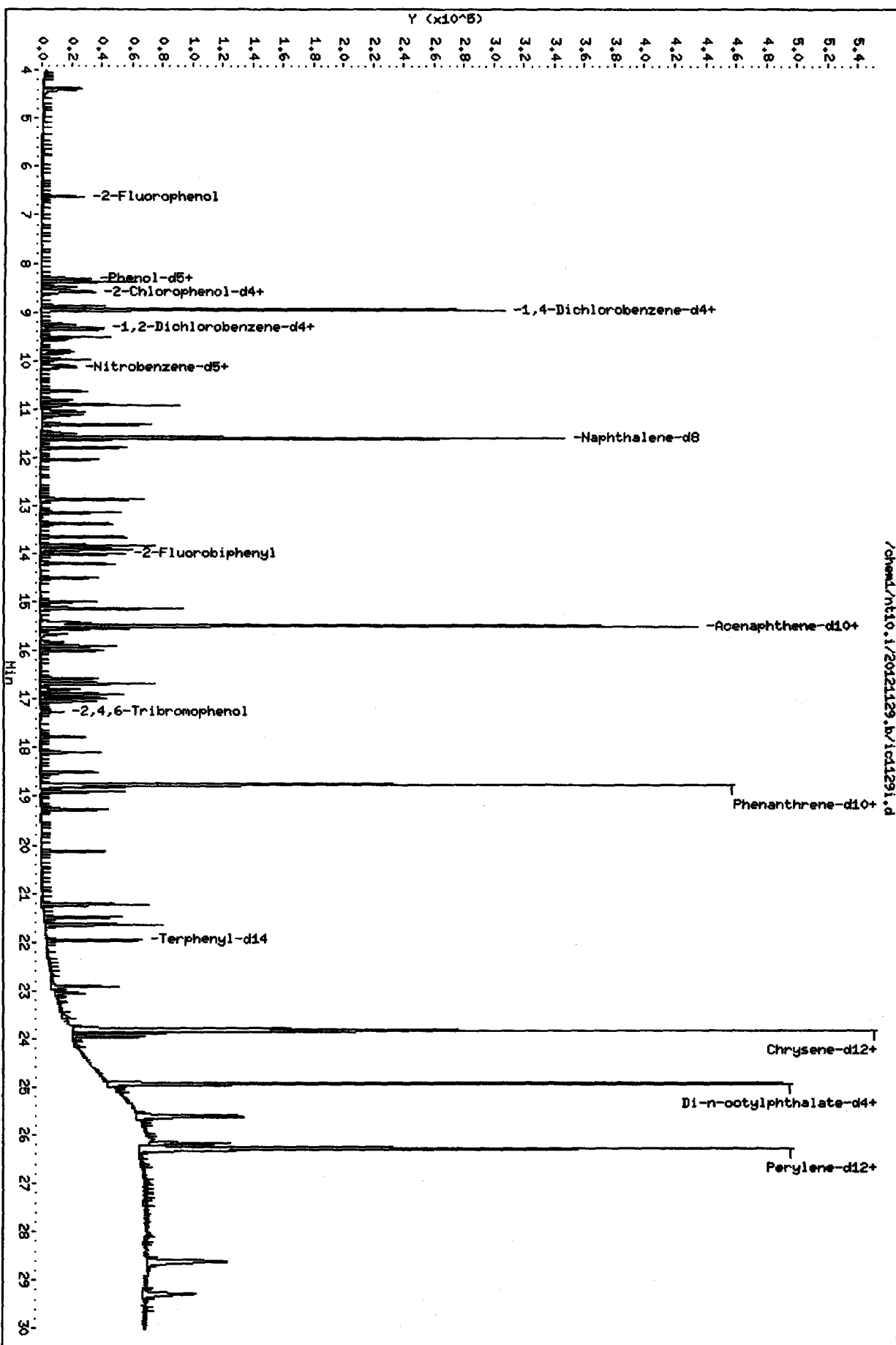
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	81366	-0.25
27 Naphthalene-d8	299399	149700	598798	295539	-1.29
42 Acenaphthene-d10	178564	89282	357128	182776	2.36
59 Phenanthrene-d10	305410	152705	610820	317404	3.93
69 Chrysene-d12	323853	161926	647706	347450	7.29
134 Di-n-octylphthala	427845	213922	855690	421593	-1.46
77 Perylene-d12	305316	152658	610632	340912	11.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.08
69 Chrysene-d12	23.82	23.32	24.32	23.84	0.07
134 Di-n-octylphthala	24.92	24.42	25.42	24.93	0.06
77 Perylene-d12	26.26	25.76	26.76	26.28	0.09

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.



CO-ELUTION SUMMARY FOR FILE - ic1129i.d

Lab ID: ABN0.5, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Data File: /chem1/nt10.i/20121129.b/df1129.d

Page 1

Date : 29-NOV-2012 09:38

Client ID: DFTPP

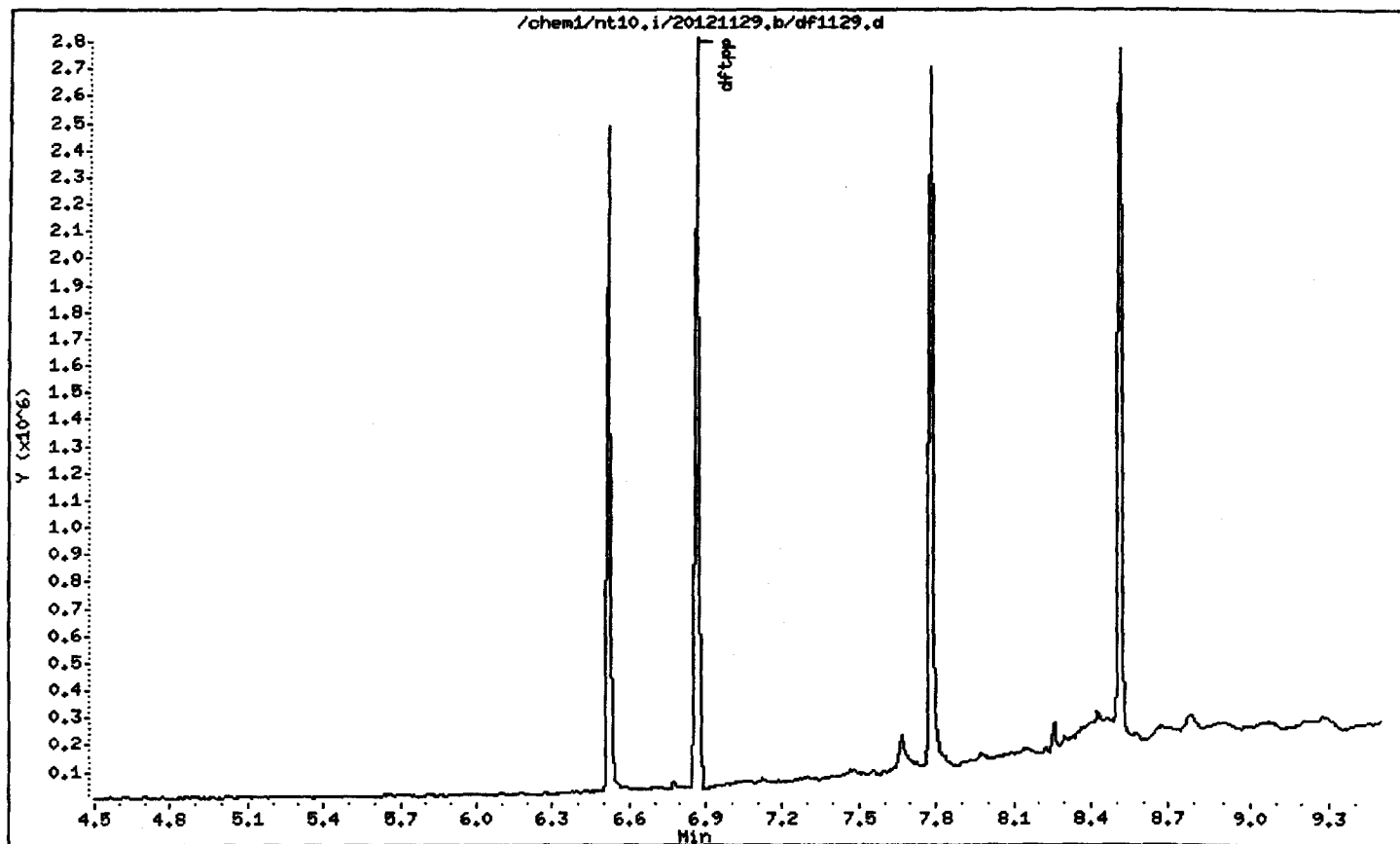
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



Date : 29-NOV-2012 09:38

Client ID: DFTPP

Instrument: nt10.i

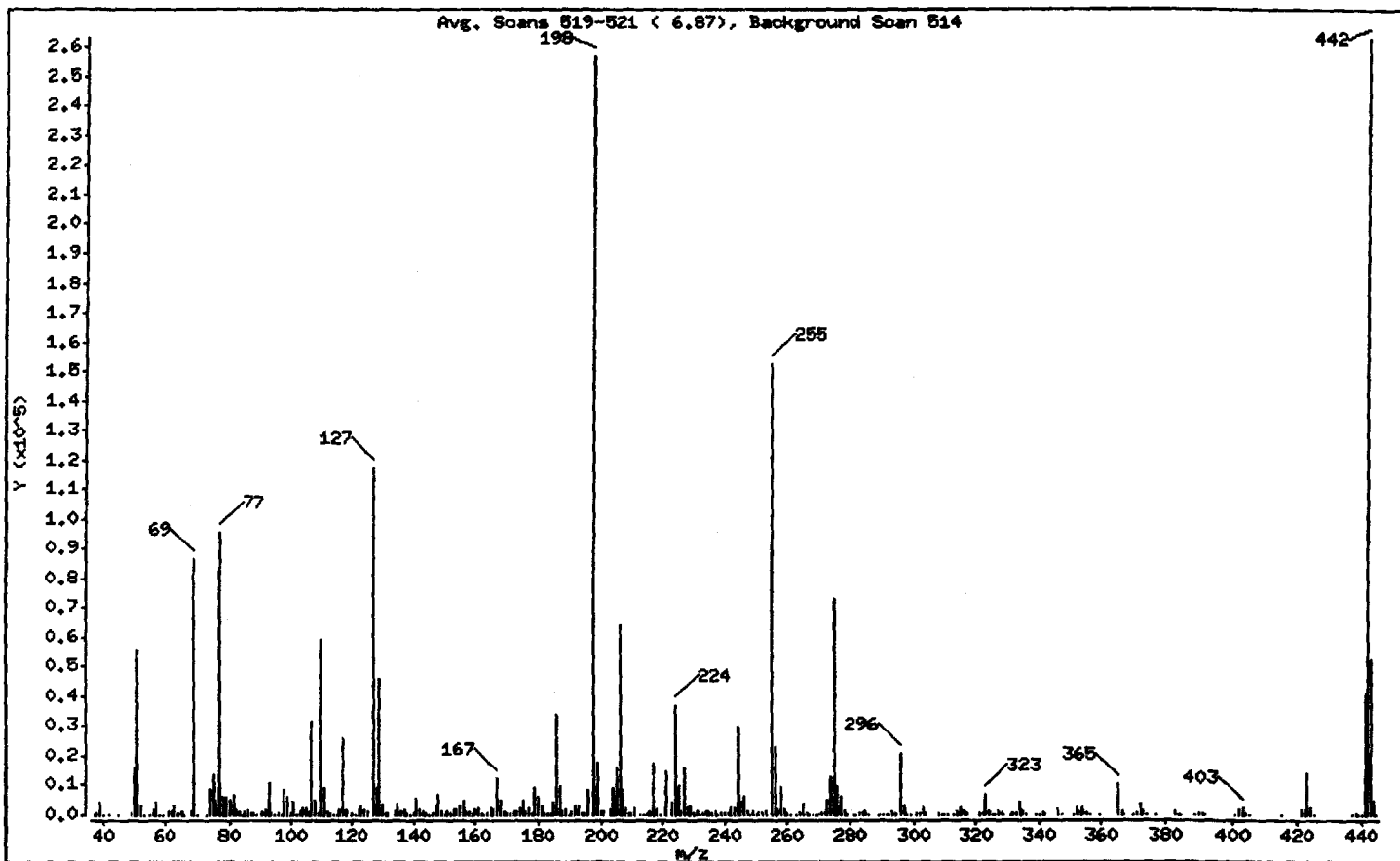
Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	21.74
68	Less than 2.00% of mass 69	0.52 (1.54)
69	Mass 69 relative abundance	33.66
70	Less than 2.00% of mass 69	0.09 (0.27)
127	10.00 - 80.00% of mass 198	45.71
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 60.00% of mass 198	28.39
365	Greater than 1.00% of mass 198	4.10
441	0.01 - 24.00% of mass 442	16.07 (15.69)
442	50.00 - 200.00% of mass 198	102.47
443	15.00 - 24.00% of mass 442	20.48 (19.99)

Date : 29-NOV-2012 09:38

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1129.d
 Spectrum: Avg. Scans 519-521 (6.87), Background Scan 514
 Location of Maximum: 442.00
 Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	271	130.00	3791	213.00	208	301.00	326
38.00	786	131.00	690	214.00	73	302.00	458
39.00	4128	132.00	485	215.00	816	303.00	2441
40.00	164	134.00	1296	216.00	1461	304.00	606
42.00	60	135.00	3677	217.00	17496	308.00	368
45.00	219	136.00	1439	218.00	2020	309.00	212
49.00	523	137.00	1736	219.00	119	310.00	258
50.00	15520	138.00	479	221.00	14738	311.00	103
51.00	55840	139.00	206	223.00	4145	313.00	216
52.00	2899	140.00	585	224.00	36688	314.00	1138
53.00	200	141.00	5740	225.00	9428	315.00	2395
55.00	113	142.00	2001	226.00	1044	316.00	1460
56.00	1803	143.00	1276	227.00	15654	317.00	315
57.00	4321	144.00	410	228.00	2225	321.00	719
58.00	279	145.00	137	229.00	3281	322.00	368
59.00	195	146.00	907	230.00	477	323.00	6822
61.00	944	147.00	2776	231.00	1400	324.00	1215
62.00	1051	148.00	6529	232.00	258	325.00	151
63.00	2987	149.00	1212	233.00	342	326.00	74
64.00	440	150.00	253	234.00	1013	327.00	1359
65.00	1436	151.00	1014	235.00	1236	328.00	753
66.00	50	152.00	384	236.00	793	329.00	111
68.00	1329	153.00	1804	237.00	1361	331.00	130
69.00	86472	154.00	1597	238.00	184	332.00	610
70.00	236	155.00	3317	239.00	615	333.00	740
73.00	298	156.00	4896	240.00	599	334.00	4504
74.00	8401	157.00	960	241.00	855	335.00	1118
75.00	13500	158.00	1230	242.00	2270	336.00	112
76.00	4610	159.00	538	243.00	2291	339.00	54
77.00	95384	160.00	1857	244.00	29568	340.00	125
78.00	6300	161.00	2618	245.00	4095	341.00	874
79.00	5910	162.00	875	246.00	5806	342.00	242
80.00	5021	163.00	95	247.00	1196	346.00	1563
81.00	6740	164.00	404	248.00	299	347.00	270
82.00	1725	165.00	2184	249.00	1269	351.00	152

Date : 29-NOV-2012 09:38

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1129.d
 Spectrum: Avg. Scans 519-521 (6.87), Background Scan 514
 Location of Maximum: 442.00
 Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1380	166.00	1799	250.00	272	352.00	2209
84.00	107	167.00	12065	251.00	394	353.00	1500
85.00	1117	168.00	4955	252.00	394	354.00	2151
86.00	1913	169.00	1080	253.00	954	355.00	479
87.00	833	170.00	403	255.00	152576	356.00	50
88.00	357	171.00	725	256.00	22872	359.00	156
89.00	290	172.00	1050	257.00	1765	365.00	10532
91.00	1435	173.00	1278	258.00	9127	366.00	1424
92.00	1626	174.00	2594	259.00	1662	367.00	53
93.00	10982	175.00	4634	260.00	316	370.00	199
94.00	695	176.00	1442	261.00	232	371.00	600
95.00	25	177.00	2159	263.00	57	372.00	3692
96.00	317	178.00	860	264.00	375	373.00	1038
97.00	126	179.00	8839	265.00	3914	374.00	63
98.00	8623	180.00	6058	266.00	472	377.00	156
99.00	6347	181.00	2946	267.00	110	383.00	1027
100.00	562	182.00	509	268.00	41	384.00	261
101.00	4092	183.00	370	269.00	43	385.00	56
102.00	239	184.00	739	270.00	166	389.00	54
103.00	1434	185.00	4235	271.00	433	390.00	533
104.00	2556	186.00	33632	272.00	545	391.00	378
105.00	2197	187.00	9498	273.00	4988	392.00	282
106.00	962	188.00	1013	274.00	12919	401.00	215
107.00	31208	189.00	2007	275.00	72944	402.00	1572
108.00	4825	190.00	287	276.00	9779	403.00	2222
109.00	691	191.00	1108	277.00	6019	404.00	791
110.00	59400	192.00	2913	278.00	1065	405.00	132
111.00	8815	193.00	3166	279.00	263	415.00	115
112.00	1140	194.00	549	281.00	10	421.00	2048
113.00	450	195.00	484	282.00	90	422.00	1839
114.00	54	196.00	8220	283.00	875	423.00	14030
115.00	115	198.00	256896	284.00	573	424.00	2663
116.00	1861	199.00	17520	285.00	1248	425.00	203
117.00	25784	200.00	1363	286.00	249	437.00	62
118.00	1774	201.00	1171	289.00	221	438.00	326

Data File: /chem1/nt10.i/20121129.b/df1129.d

Page 5

Date : 29-NOV-2012 09:38

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0,25

Data File: df1129.d

Spectrum: Avg. Scans 519-521 (6.87), Background Scan 514

Location of Maximum: 442.00

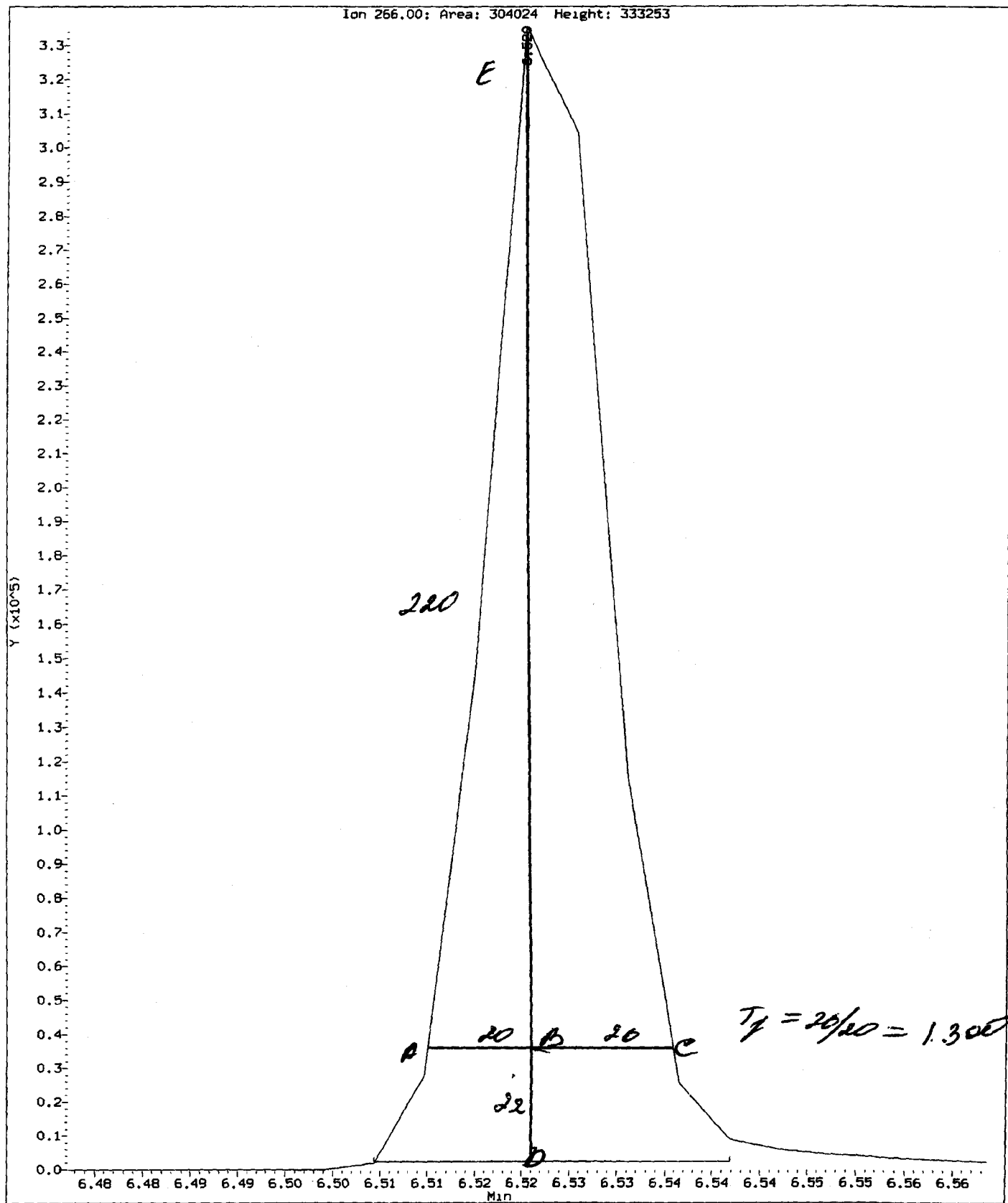
Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	311	203.00	1678	290.00	196	439.00	183
121.00	23	204.00	9267	291.00	134	440.00	286
122.00	2018	205.00	15828	292.00	278	441.00	41288
123.00	3284	206.00	64384	293.00	1428	442.00	263232
124.00	1565	207.00	8350	294.00	344	443.00	52608
125.00	1398	208.00	2248	296.00	20784	444.00	4700
127.00	117424	209.00	657	297.00	3037	445.00	234
128.00	8930	210.00	781	298.00	201		
129.00	45776	211.00	2601	299.00	51		

VR02: 00334

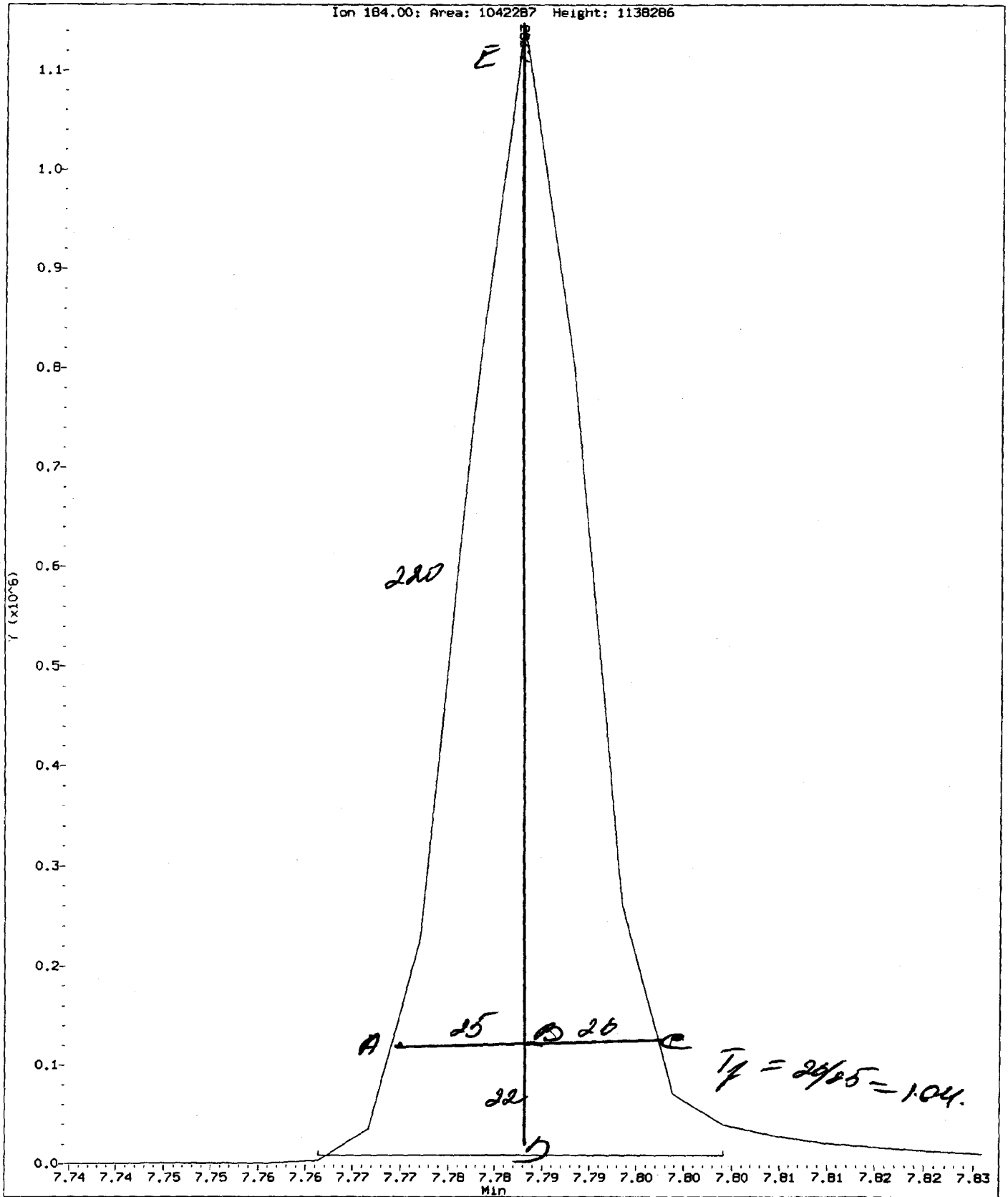
Data File: /chem1/nt10.1/20121129.b/ddt.b/df1129.d
Injection Date: 29-NOV-2012 09:38
Instrument: nt10.1
Client Sample ID: DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /Chem1/nt10.1/20121129.b/ddt.b/df1129.d
Injection Date: 29-NOV-2012 09:38
Instrument: nt10.1
Client Sample ID: DFTPP

Compound: Benzidine
CAS Number:



VR82 : 00335

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20121129.b/ddt.b/df1129.d ARI ID: DFTPP
Method: /chem1/nt10.i/20121129.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 29-NOV-2012 09:38 Instrument: nt10.i

COMPOUND	RT	AREA
Pentachlorophenol	6.520	304023
Benzidine	7.783	1042286
4,4'-DDE	7.970	2896
4,4'-DDD	8.259	21339
4,4'-DDT	8.515	511497

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(2896 + 21339) * 100}{(2896 + 21339 + 511497)}$$

$$\text{DDT Percent Breakdown} = 4.5 \%$$

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/nt10.i/20121129.b/ic1129c.d
 Level 2: /chem1/nt10.i/20121129.b/ic1129i.d
 Level 3: /chem1/nt10.i/20121129.b/ic1129d.d
 Level 4: /chem1/nt10.i/20121129.b/ic1129g.d
 Level 5: /chem1/nt10.i/20121129.b/ic1129a.d
 Level 6: /chem1/nt10.i/20121129.b/ic1129e.d

Compound	0.20000	0.50000	1.000	2.500	5.000	10.000	RRF	% RSD	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
186 Carbaryl	++++	++++	++++	++++	++++	++++	++++	++++	<-
179 n-Decane	++++	++++	++++	++++	++++	++++	++++	++++	<-
180 n-Octadecane	++++	++++	++++	++++	++++	++++	++++	++++	<-
169 4-tert-Butylphenol	++++	++++	++++	++++	++++	++++	++++	++++	
170 N,N-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
171 2,3-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
172 2,4-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
173 2,5-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
174 2,6-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
175 3,4-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
176 3,5-Dimethylaniline	++++	++++	++++	++++	++++	++++	++++	++++	
177 p-Benzoquinone	++++	++++	++++	++++	++++	++++	++++	++++	<-
168 Pentachlorobenzene	++++	++++	++++	++++	++++	++++	++++	++++	<-
145 4,4'-DDE	++++	++++	++++	++++	++++	++++	++++	++++	
146 4,4'-DDD	++++	++++	++++	++++	++++	++++	++++	++++	
147 4,4'-DDT	++++	++++	++++	++++	++++	++++	++++	++++	
148 Dieldrin	++++	++++	++++	++++	++++	++++	++++	++++	
149 TCMX	++++	++++	++++	++++	++++	++++	++++	++++	
150 DCBP	++++	++++	++++	++++	++++	++++	++++	++++	
138 Chlorobenzilate	++++	++++	++++	++++	++++	++++	++++	++++	
139 Isodrin	++++	++++	++++	++++	++++	++++	++++	++++	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
140 Diallate A	++++	++++	++++	++++	++++	++++	++++	++++
141 Diallate B	++++	++++	++++	++++	++++	++++	++++	++++
142 1,2-Dibromo-3-Chloropropane	++++	++++	++++	++++	++++	++++	++++	++++
135 2,3,5,6-Tetrachlorophenol	++++	++++	++++	++++	++++	++++	++++	++++
136 2,3,4,5-tetrachlorophenol	++++	++++	++++	++++	++++	++++	++++	++++
133 Butylatedhydroxytoluene	++++	++++	++++	++++	++++	++++	++++	++++
132 3,6-Dimethylphenanthrene	++++	++++	++++	++++	++++	++++	++++	++++
131 1-Methylphenanthrene	++++	++++	++++	++++	++++	++++	++++	++++
130 Dibenzothiophene	++++	++++	++++	++++	++++	++++	++++	++++
129 1-Methylfluorene	++++	++++	++++	++++	++++	++++	++++	++++
128 N-Hexadecane	++++	++++	++++	++++	++++	++++	++++	++++
127 2-Isopropyl-naphthalene	++++	++++	++++	++++	++++	++++	++++	++++
126 N-Tetradecane	++++	++++	++++	++++	++++	++++	++++	++++
144 alpha-Terpineol	++++	++++	++++	++++	++++	++++	++++	++++
125 Safrole	++++	++++	++++	++++	++++	++++	++++	++++
124 3,4-Dimethylphenol	++++	++++	++++	++++	++++	++++	++++	++++
123 Acetophenone	++++	++++	++++	++++	++++	++++	++++	++++
122 Furfuraldehyde	++++	++++	++++	++++	++++	++++	++++	++++
143 1,4-Dioxane	++++	++++	++++	++++	++++	++++	++++	++++
121 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++
120 2,3,4,6-Tetrachlorophenol	++++	++++	++++	++++	0.00104	++++	0.00104	0.000
178 2-Benzyl-4-Chlorophenol	++++	++++	++++	++++	++++	++++	++++	++++
119 7,12-Dimethylbenz(a)anthracen	++++	++++	++++	++++	++++	++++	++++	++++
118 Triphenyl Phosphate	++++	++++	++++	++++	++++	++++	++++	++++
117 Butyl Diphenyl Phosphate	++++	++++	++++	++++	++++	++++	++++	++++
116 Dibutyl Phenyl Phosphate	++++	++++	++++	++++	++++	++++	++++	++++
115 Tributyl Phosphate	++++	++++	++++	++++	++++	++++	++++	++++
114 Beta-Pinene	++++	++++	++++	++++	++++	++++	++++	++++
113 Diphenyl Oxide	++++	++++	++++	++++	++++	++++	++++	++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2012 09:54
 End Cal Date : 29-NOV-2012 15:30
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20121129.b/ABN.m
 Cal Date : 29-Nov-2012 16:14 yev
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Azobenzene (1,2-DP-Hydrazine)	1.24647	1.25189	1.20249	1.11370	0.94431	1.08874	1.14127	10.321
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 1-methylnaphthalene	0.70549	0.71349	0.68385	0.67380	0.60560	0.61048	0.66545	7.024
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1,2,3,4-Tetrachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121129.b/icv1129.d
 Lab Smp Id: ICV1129
 Inj Date : 29-NOV-2012 16:07
 Operator : VTS/YZ
 Smp Info : ICV1129
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121129.b/ABN.m
 Meth Date : 01-Dec-2012 13:47 yev
 Cal Date : 29-NOV-2012 15:30
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129i.d
 QC Sample: LCS
 Compound Sublist: PSDDAICAL.sub

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
\$ 1 2-Fluorophenol	112						
\$ 2 Phenol-d5	99						
3 Phenol	94	8.336	8.328	(0.932)	153337	4.76588	476.6
\$ 5 2-Chlorophenol-d4	132						
4 Bis(2-Chloroethyl)ether	93	8.491	8.483	(0.949)	122179	5.22720	522.7
6 2-Chlorophenol	128	8.599	8.591	(0.961)	135603	4.47165	447.2
7 1,3-Dichlorobenzene	146	8.877	8.869	(0.992)	163452	5.26284	526.3
* 8 1,4-Dichlorobenzene-d4	152	8.947	8.939	(1.000)	77158	4.00000	
9 1,4-Dichlorobenzene	146	8.978	8.970	(1.003)	144976	4.97587	497.6
\$ 10 1,2-Dichlorobenzene-d4	152						
12 1,2-Dichlorobenzene	146	9.358	9.343	(1.046)	145725	5.21206	521.2
11 Benzyl alcohol	108	9.257	9.249	(1.035)	101100	6.64516	664.5(R)
14 2,2'-oxybis(1-Chloropropane)	121	10.918	10.918	(1.220)	61830	2.21015	221.0(R)
13 2-Methylphenol	108	9.514	9.506	(1.063)	112501	4.06885	406.9
17 Hexachloroethane	117	9.979	9.971	(1.115)	59529	4.97271	497.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
16 N-Nitroso-di-n-propylamine	70	9.855	9.855	(1.101)	61212	3.98151	398.2
15 4-Methylphenol	108	9.816	9.793	(1.097)	48661	2.96679	296.7(R)
\$ 18 Nitrobenzene-d5	82	Compound Not Detected.					
19 Nitrobenzene	77	10.150	10.150	(0.875)	130896	5.26060	526.1
20 Isophorone	82	10.639	10.639	(0.917)	218337	4.54888	454.9
21 2-Nitrophenol	139	10.825	10.825	(0.934)	90737	4.50188	450.2
22 2,4-Dimethylphenol	107	10.918	10.910	(0.942)	117296	4.17633	417.6
23 Bis(2-Chloroethoxy)methane	93	11.126	11.118	(0.959)	155058	5.45679	545.7
24 Benzoic acid	105	11.126	11.187	(0.959)	160918	9.15992	916.0
25 2,4-Dichlorophenol	162	11.318	11.318	(0.976)	118711	4.42249	442.2
26 1,2,4-Trichlorobenzene	180	11.519	11.495	(0.993)	79763	4.85989	486.0
* 27 Naphthalene-d8	136	11.596	11.588	(1.000)	295164	4.00000	
28 Naphthalene	128	11.634	11.627	(1.003)	321273	4.47389	447.4
29 4-Chloroaniline	127	11.804	11.797	(1.018)	189165	6.26588	626.6
30 Hexachlorobutadiene	225	12.044	12.036	(1.039)	101695	5.52777	552.8
31 4-Chloro-3-methylphenol	107	12.872	12.872	(1.110)	111248	4.47533	447.5
32 2-Methylnaphthalene	142	13.143	13.135	(1.133)	324287	6.06122	606.1
33 Hexachlorocyclopentadiene	237	13.661	13.661	(0.882)	104476	5.10803	510.8
34 2,4,6-Trichlorophenol	196	13.831	13.831	(0.893)	96978	4.55582	455.6
35 2,4,5-Trichlorophenol	196	13.917	13.917	(0.899)	103342	4.53732	453.7
\$ 36 2-Fluorobiphenyl	172	Compound Not Detected.					
37 2-Chloronaphthalene	162	14.211	14.211	(0.918)	235704	4.50969	451.0
38 2-Nitroaniline	65	14.512	14.512	(0.937)	81731	6.89111	689.1(R)
39 Dimethylphthalate	163	15.008	14.992	(0.969)	308696	5.31131	531.1
40 Acenaphthylene	152	15.147	15.131	(0.978)	426882	5.02033	502.0
41 2,6-Dinitrotoluene	165	15.139	15.139	(0.978)	68291	5.22303	522.3
* 42 Acenaphthene-d10	164	15.488	15.480	(1.000)	179902	4.00000	
43 3-Nitroaniline	138	15.441	15.434	(0.997)	99792	6.85611	685.6(R)
44 Acenaphthene	153	15.557	15.549	(1.004)	244539	5.03136	503.1
45 2,4-Dinitrophenol	184	15.665	15.665	(1.011)	69963	7.50985	751.0
46 Dibenzofuran	168	15.921	15.905	(1.028)	448263	6.21448	621.4
47 4-Nitrophenol	109	15.835	15.836	(1.022)	30798	4.51656	451.7
48 2,4-Dinitrotoluene	165	16.013	16.006	(1.034)	88164	5.14372	514.4
50 Diethylphthalate	149	16.593	16.577	(1.071)	294739	4.84515	484.5
49 Fluorene	166	16.686	16.670	(1.077)	305052	5.09765	509.8
51 4-Chlorophenyl-phenylether	204	16.709	16.701	(1.079)	133566	4.81356	481.4
52 4-Nitroaniline	138	16.810	16.802	(1.085)	69277	5.75041	575.0
53 4,6-Dinitro-2-methylphenol	198	16.918	16.910	(0.902)	117954	8.54478	854.5
54 N-Nitrosodiphenylamine	169	16.979	16.964	(0.905)	204685	5.32935	532.9
\$ 55 2,4,6-Tribromophenol	330	Compound Not Detected.					
56 4-Bromophenyl-phenylether	248	17.789	17.789	(0.948)	99012	5.55175	555.2
57 Hexachlorobenzene	284	18.106	18.090	(0.965)	115235	5.13876	513.9
58 Pentachlorophenol	266	18.508	18.493	(0.986)	62454	4.35443	435.4
* 59 Phenanthrene-d10	188	18.764	18.748	(1.000)	312760	4.00000	
60 Phenanthrene	178	18.818	18.802	(1.003)	404188	5.21948	521.9
61 Anthracene	178	18.911	18.895	(1.008)	413304	4.96541	496.5
62 Carbazole	167	19.274	19.274	(1.027)	336218	5.23117	523.1

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/Kg)	
63 Di-n-butylphthalate	====	149	20.141	20.118	(1.073)	545902	5.54360	554.4	
64 Fluoranthene		202	21.232	21.216	(1.132)	534700	5.47805	547.8	
65 Pyrene		202	21.650	21.634	(0.908)	546466	5.62984	563.0	
* 66 Terphenyl-d14		244	Compound Not Detected.						
67 Butylbenzylphthalate		149	22.919	22.896	(0.961)	222857	5.65200	565.2	
68 Benzo(a)anthracene		228	23.817	23.794	(0.999)	523913	5.56343	556.3	
* 69 Chrysene-d12		240	23.841	23.825	(1.000)	331330	4.00000		
70 3,3'-Dichlorobenzidine		252	23.794	23.786	(0.998)	136811	3.11163	311.2 (R)	
71 Chrysene		228	23.887	23.864	(1.002)	446310	5.33480	533.5	
72 bis(2-Ethylhexyl)phthalate		149	23.964	23.941	(0.961)	264503	4.37127	437.1	
* 134 Di-n-octylphthalate-d4		153	24.940	24.917	(1.000)	438545	4.00000		
73 Di-n-octylphthalate		149	24.948	24.924	(1.000)	548950	5.52196	552.2	
74 Benzo(b)fluoranthene		252	25.644	25.598	(0.976)	576583	5.91920	591.9	
75 Benzo(k)fluoranthene		252	25.644	25.637	(0.976)	576583	5.23061	523.1	
76 Benzo(a)pyrene		252	26.179	26.155	(0.996)	477464	5.01054	501.1	
* 77 Perylene-d12		264	26.287	26.256	(1.000)	333901	4.00000		
78 Indeno(1,2,3-cd)pyrene		276	28.620	28.573	(1.089)	596567	5.52396	552.4	
79 Dibenzo(a,h)anthracene		278	28.651	28.597	(1.090)	465150	5.42729	542.7	
80 Benzo(g,h,i)perylene		276	29.304	29.257	(1.115)	510519	5.52350	552.3	
90 N-Nitrosodimethylamine		74	4.366	4.374	(0.488)	93149	5.28549	528.5	
91 Aniline		93	8.375	8.375	(0.936)	177549	2.75054	275.1 (R)	
93 Benzidine		184	21.495	21.495	(0.902)	40545	1.49620	149.6 (R)	
103 Pyridine		79	4.389	4.405	(0.491)	141293	10.2012	1020	
105 1-methylnaphthalene		142	13.383	13.375	(1.154)	222060	4.52218	452.2	
111 Azobenzene (1,2-DP-Hydrazine)		77	17.057	17.049	(1.101)	223367	4.35167	435.2	
187 Total Benzofluoranthenes		252	25.606	25.621	(0.974)	1036649	10.5501	1055	
99 Perylene		252	26.179	26.326	(0.996)	477464	5.17124	517.1	
98 Retene		219	Compound Not Detected.						
120 2,3,4,6-Tetrachlorophenol		232	16.299	16.284	(1.052)	85553	1822.24	182200 (R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: icv1129.d
 Lab Smp Id: ICV1129
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

Calibration Date: 29-NOV-2012
 Calibration Time: 09:54
 Level: LOW
 Sample Type: SOIL

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	77158	-5.41
27 Naphthalene-d8	299399	149700	598798	295164	-1.41
42 Acenaphthene-d10	178564	89282	357128	179902	0.75
59 Phenanthrene-d10	305410	152705	610820	312760	2.41
69 Chrysene-d12	323853	161926	647706	331330	2.31
134 Di-n-octylphthala	427845	213922	855690	438545	2.50
77 Perylene-d12	305316	152658	610632	333901	9.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.94	8.44	9.44	8.95	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.48	14.98	15.98	15.49	0.05
59 Phenanthrene-d10	18.75	18.25	19.25	18.76	0.08
69 Chrysene-d12	23.82	23.32	24.32	23.84	0.07
134 Di-n-octylphthala	24.92	24.42	25.42	24.94	0.09
77 Perylene-d12	26.26	25.76	26.76	26.29	0.12

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG:
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: ICV1129
 Level: LOW Operator: VTS/YZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: ICV.spk Quant Type: ISTD
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20121129.b/ABN.m
 Misc Info:

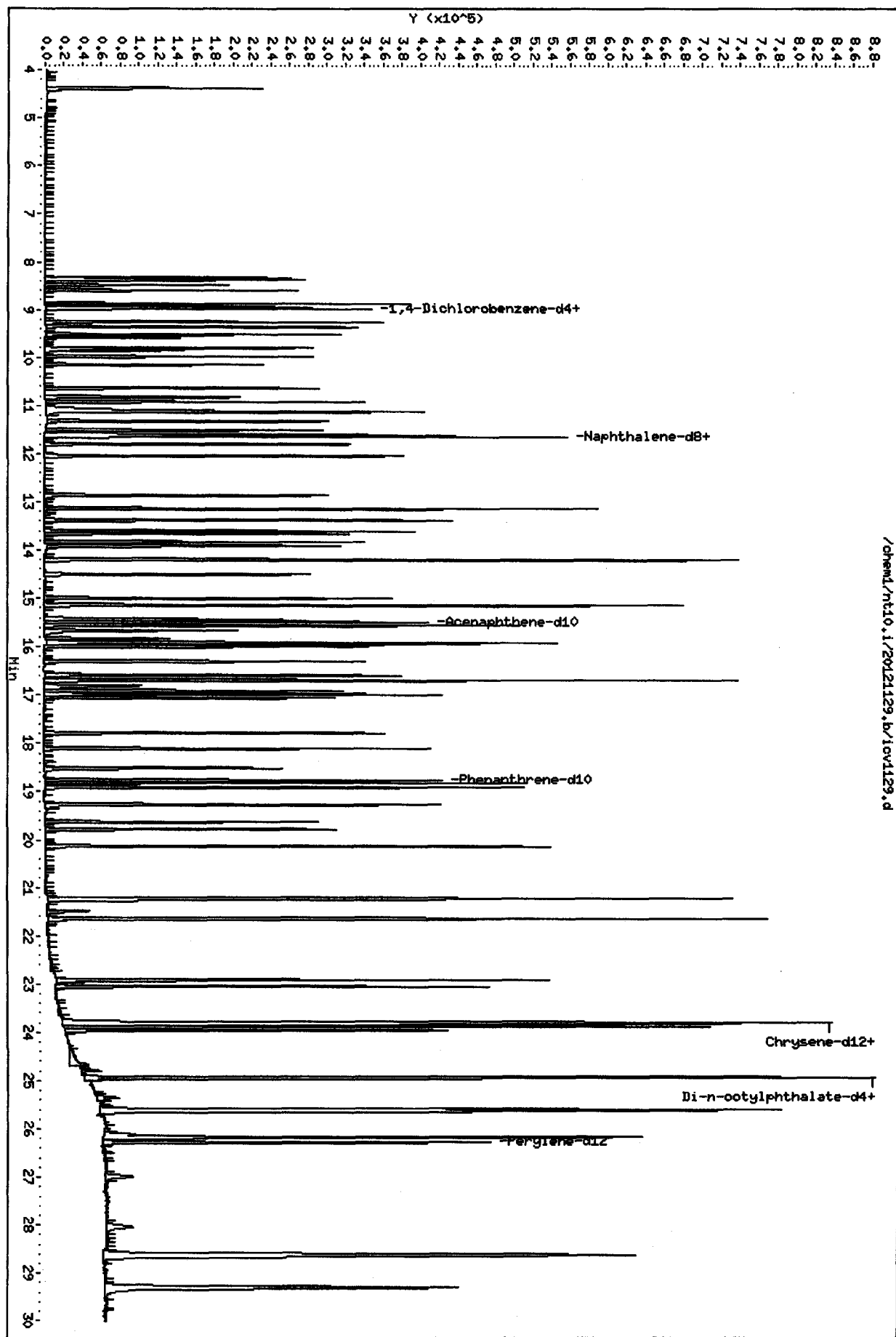
SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
3 Phenol	500.0	476.6	95.32	70-130
4 Bis(2-Chloroethyl)	500.0	522.7	104.54	70-130
6 2-Chlorophenol	500.0	447.2	89.43	70-130
7 1,3-Dichlorobenzen	500.0	526.3	105.26	70-130
9 1,4-Dichlorobenzen	500.0	497.6	99.52	70-130
11 Benzyl alcohol	500.0	664.5	132.90*	70-130
12 1,2-Dichlorobenzen	500.0	521.2	104.24	70-130
13 2-Methylphenol	500.0	406.9	81.38	70-130
14 2,2'-oxybis(1-Chlo	500.0	221.0	44.20*	70-130
15 4-Methylphenol	500.0	296.7	59.34*	70-130
16 N-Nitroso-di-n-pro	500.0	398.2	79.63	70-130
17 Hexachloroethane	500.0	497.3	99.45	70-130
19 Nitrobenzene	500.0	526.1	105.21	70-130
20 Isophorone	500.0	454.9	90.98	70-130
21 2-Nitrophenol	500.0	450.2	90.04	70-130
22 2,4-Dimethylphenol	500.0	417.6	83.53	70-130
23 Bis(2-Chloroethoxy	500.0	545.7	109.14	70-130
24 Benzoic acid	1000	916.0	91.60	70-130
25 2,4-Dichlorophenol	500.0	442.2	88.45	70-130
26 1,2,4-Trichloroben	500.0	486.0	97.20	70-130
28 Naphthalene	500.0	447.4	89.48	70-130
29 4-Chloroaniline	500.0	626.6	125.32	70-130
30 Hexachlorobutadien	500.0	552.8	110.56	70-130
31 4-Chloro-3-methylp	500.0	447.5	89.51	70-130
32 2-Methylnaphthalen	500.0	606.1	121.22	70-130
33 Hexachlorocyclopen	500.0	510.8	102.16	70-130
34 2,4,6-Trichlorophe	500.0	455.6	91.12	70-130
35 2,4,5-Trichlorophe	500.0	453.7	90.75	70-130
37 2-Chloronaphthalen	500.0	451.0	90.19	70-130
38 2-Nitroaniline	500.0	689.1	137.82*	70-130
39 Dimethylphthalate	500.0	531.1	106.23	70-130
40 Acenaphthylene	500.0	502.0	100.41	70-130
41 2,6-Dinitrotoluene	500.0	522.3	104.46	70-130

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
43 3-Nitroaniline	500.0	685.6	137.12*	70-130
44 Acenaphthene	500.0	503.1	100.63	70-130
45 2,4-Dinitrophenol	1000	751.0	75.10	70-130
46 Dibenzofuran	500.0	621.4	124.29	70-130
47 4-Nitrophenol	500.0	451.7	90.33	70-130
48 2,4-Dinitrotoluene	500.0	514.4	102.87	70-130
49 Fluorene	500.0	509.8	101.95	70-130
50 Diethylphthalate	500.0	484.5	96.90	70-130
51 4-Chlorophenyl-phe	500.0	481.4	96.27	70-130
52 4-Nitroaniline	500.0	575.0	115.01	70-130
53 4,6-Dinitro-2-meth	1000	854.5	85.45	70-130
54 N-Nitrosodiphenyla	500.0	532.9	106.59	70-130
56 4-Bromophenyl-phen	500.0	555.2	111.03	70-130
57 Hexachlorobenzene	500.0	513.9	102.78	70-130
58 Pentachlorophenol	500.0	435.4	87.09	70-130
60 Phenanthrene	500.0	521.9	104.39	70-130
61 Anthracene	500.0	496.5	99.31	70-130
62 Carbazole	500.0	523.1	104.62	70-130
63 Di-n-butylphthalat	500.0	554.4	110.87	70-130
64 Fluoranthene	500.0	547.8	109.56	70-130
65 Pyrene	500.0	563.0	112.60	70-130
67 Butylbenzylphthala	500.0	565.2	113.04	70-130
68 Benzo(a)anthracene	500.0	556.3	111.27	70-130
70 3,3'-Dichlorobenzi	500.0	311.2	62.23*	70-130
71 Chrysene	500.0	533.5	106.70	70-130
72 bis(2-Ethylhexyl)p	500.0	437.1	87.43	70-130
73 Di-n-octylphthalat	500.0	552.2	110.44	70-130
74 Benzo(b)fluoranthe	500.0	591.9	118.38	70-130
75 Benzo(k)fluoranthe	500.0	523.1	104.61	70-130
187 Total Benzofluoran	1000	1055	105.50	70-130
76 Benzo(a)pyrene	500.0	501.1	100.21	70-130
78 Indeno(1,2,3-cd)py	500.0	552.4	110.48	70-130
79 Dibenzo(a,h)anthra	500.0	542.7	108.55	70-130
80 Benzo(g,h,i)peryle	500.0	552.3	110.47	70-130
90 N-Nitrosodimethyla	500.0	528.5	105.71	70-130
103 Pyridine	1000	1020	102.01	70-130
91 Aniline	500.0	275.1	55.01*	70-130
105 1-methylnaphthalen	500.0	452.2	90.44	70-130
93 Benzidine	500.0	149.6	29.92*	70-130
111 Azobenzene (1,2-DP	500.0	435.2	87.03	70-130
143 1,4-Dioxane	500.0	0.000	*	70-130
144 alpha-Terpineol	500.0	0.000	*	70-130
177 p-Benzoquinone	500.0	0.000	*	70-130
98 Retene	500.0	0.000	*	70-130
133 Butylatedhydroxyt	500.0	0.000	*	70-130
115 Tributyl Phosphate	500.0	0.000	*	70-130
116 Dibutyl Phenyl Ph	500.0	0.000	*	70-130

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
117 Butyl Diphenyl Ph	500.0	0.000	*	70-130
118 Triphenyl Phospha	500.0	0.000	*	70-130
123 Acetophenone	500.0	0.000	*	70-130
179 n-Decane	500.0	0.000	*	70-130
180 n-Octadecane	500.0	0.000	*	70-130
168 Pentachlorobenzene	500.0	0.000	*	70-130
113 Diphenyl Oxide	500.0	0.000	*	70-130
112 Biphenyl	500.0	0.000	*	70-130
120 2,3,4,6-Tetrachlor	500.0	182200	36444.84*	70-130
151 1,2,4,5-Tetrachlo	500.0	0.000	*	70-130
110 Tetrachloroguaiac	500.0	0.000	*	70-130
109 3,4,5-Trichlorogu	500.0	0.000	*	70-130
181 3,4,6-Trichlorogu	500.0	0.000	*	70-130
108 4,5,6-Trichlorogu	500.0	0.000	*	70-130
184 3,4-Dichloroguaia	500.0	0.000	*	70-130
107 4,5-Dichloroguaia	500.0	0.000	*	70-130
182 4,6-Dichloroguaia	500.0	0.000	*	70-130
185 4-Chloroguaiacol	500.0	0.000	*	70-130
106 Guaiacol	500.0	0.000	*	70-130
186 Carbaryl	500.0	0.000	*	70-130
178 2-Benzyl-4-Chloro	500.0	0.000	*	70-130
99 Perylene	500.0	517.1	103.42	70-130
100 3-beta-Coprostanol	500.0	0.000	*	70-130
101 Cholesterol	500.0	0.000	*	70-130

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	750.0	0.000	*	30-160
\$ 2 Phenol-d5	750.0	0.000	*	30-160
\$ 5 2-Chlorophenol-d4	750.0	0.000	*	30-160
\$ 10 1,2-Dichlorobenze	500.0	0.000	*	30-160
\$ 18 Nitrobenzene-d5	500.0	0.000	*	30-160
\$ 36 2-Fluorobiphenyl	500.0	0.000	*	30-160
\$ 55 2,4,6-Tribromophe	750.0	0.000	*	30-160
\$ 66 Terphenyl-d14	500.0	0.000	*	30-160

/chemd/nt10.1/20121129.b/cv1129.d



CO-ELUTION SUMMARY FOR FILE - icv1129.d

Lab ID: ICV1129, Method: ABN.m, Instrument: nt10.i, Date: 29-NOV-2012

RT	CO-ELUTION COMPOUNDS
25.644	Benzo(k)fluoranthene and Benzo(b)fluoranthene
26.179	Perylene and Benzo(a)pyrene

**Semivolatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: VR82



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: VR82 Client ID: Anchor QEA

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): psdda ABN's

Instrument: NT-4 NT-6 NT-8 **NT-10** NT11 NT12

Curve Date: 11.29.12 Analysis Start Date: 12.5.12

DFTPP Tune Meets Criteria?	<input checked="" type="radio"/> YES / NO	Internal Standard Meets Criteria?	<input checked="" type="radio"/> YES / NO
DDT Breakdown <20%?	<input checked="" type="radio"/> YES / NO / NA	Method Blank In Control?	<input checked="" type="radio"/> YES / NO
Peak Tailing Factor ≤2?	<input checked="" type="radio"/> YES / NO / NA	<input checked="" type="radio"/> LCS / LCSD Recovery In Control?	<input checked="" type="radio"/> YES / NO
ICal acceptable?	<input checked="" type="radio"/> YES / NO	CCal acceptable?	<input checked="" type="radio"/> YES / NO
Q flag applied?	YES / <input checked="" type="radio"/> NO	Q flag applied?	<input checked="" type="radio"/> YES / NO
Surrogate Recovery in Control?	<input checked="" type="radio"/> YES / NO	Special Analysis Criteria Met?	<input checked="" type="radio"/> YES / NO / NA
Manual Integrations for ICal?	<input checked="" type="radio"/> YES / NO	Manual Integrations for Samples?	<input checked="" type="radio"/> Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- level IV package, samples A-I.
- Didn't report di-n-octyl phthalate to 3 level due to poor spectral matches.

Additional Details on Reverse: Yes / No

Analyst: VT Date: 12.6.12

Reviewer: [Signature] Date: 12/6/12

Analytical Resources Inc.: Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 12.5.12 Analysis: psdpp ABN'S Analyst: VP
 GC Program: ABN2 Column No: 247357 Column Type: ZB-Sms
 Instrument Tune (.U or .CT.): 12.1204.U EM Voltage: 1600
 Calibration File: AF1205 Curve Date: 11.29.12 Injection Vol.: 1 ul

IS/SS	Ical/Ccal	LCS/ICV
<u>1998-2</u>	<u>1949-2</u> <u>2036-2</u>	
	<u>1986-2</u>	
	<u>1998-4</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20121205.b

Time	Filename	LabID	ClientId	DF	NO ISTDS FOUND																
1	1134	df1205.d	DFTPP	DFTPP	1	NO ISTDS FOUND															
2	1149	cc1205.d	CC1205		1	8.81	103035	11.47	392234	15.37	228483	18.66	397408	23.77	420761	24.90	547636	26.21	411812		
3	1246	vr82mb.d	VR82MBS1	VR82MBS1	1	8.82	88332	11.49	340344	15.39	199155	18.67	335355	23.79	384953	24.91	488712	26.23	373822		
4	1323	vr82sb.d	VR82LCSS1	VR82LCSS1	1	8.79	85250	11.43	333748	15.32	193732	18.59	335600	23.72	370226	24.83	480967	26.13	364867		
5	1400	vr82a.d	VR82A	SG-02-S-C-12	1	8.79	102932	11.44	431981	15.33	260122	18.62	424513	23.75	474788	24.87	628575	26.19	451840		
6	1436	vr82b.d	VR82B	SG-03-S-C-12	1	8.79	117864	11.45	453422	15.33	253139	18.62	432994	23.75	471733	24.87	624583	26.19	462197		
7	1513	vr82c.d	VR82C	SG-04-S-C-12	1	8.79	111644	11.44	428605	15.33	246698	18.61	414547	23.73	443708	24.85	604196	26.16	426125		
8	1550	vr82cms.d	VR82CMS	SG-04-S-C-12	1	8.79	105814	11.44	398767	15.33	236242	18.61	403337	23.73	458185	24.85	623711	26.16	440765		
9	1626	vr82cmsd.d	VR82CMSD	SG-04-S-C-12	1	8.79	103900	11.44	383920	15.33	228071	18.60	387255	23.72	446183	24.85	592231	26.15	423286		
10	1703	vr82d.d	VR82D	SG-05-S-C-12	1	8.79	100582	11.44	395685	15.33	244510	18.61	410498	23.73	436356	24.86	577941	26.17	409766		
11	1739	vr82e.d	VR82E	SG-06-S-C-12	1	8.79	96723	11.44	367009	15.33	216552	18.61	363874	23.73	408338	24.86	541756	26.18	394922		
12	1816	vr82f.d	VR82F	SG-07-S-C-12	1	8.79	98819	11.44	386787	15.33	232274	18.60	395582	23.73	434811	24.86	584812	26.17	405769		
13	1853	vr82g.d	VR82G	SG-07-S-C-du	1	8.79	87186	11.44	345919	15.33	224624	18.61	392203	23.73	420805	24.86	541765	26.16	387423		
14	1929	vr82h.d	VR82H	SG-08-S-C-12	1	8.79	78871	11.44	316573	15.33	222544	18.60	392074	23.73	422254	24.85	557173	26.16	391355		
15	2006	vr82i.d	VR82I	SG-09-S-C-12	1	8.79	75488	11.44	309344	15.33	212175	18.60	370798	23.73	400110	24.85	520126	26.16	370845		
16	2042	vr58a3.d	VR58A	SG-10-S-E-12	3	8.79	75190	11.44	284847	15.33	198575	18.60	394579	23.73	414183	26.16	386803	24.84	545234		
17	2119	vr58b3.d	VR58B	SG-11-S-E-12	3	8.79	74673	11.44	303062	15.33	211481	18.61	387113	23.73	400002	26.16	365130	24.85	529472		

VP
12.5.12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt10.i/20121205.b

ARI Job No.: CC12 Method: ABN.m Instrument: nt10.i Date: 05-DEC-2012

Time Filename LabID ClientID DF Manually Integrated Compounds

1149 cc1205.d CC1205 1 NO MANUAL INTEGRATION

1134 df1205.d DF1205 1 NO MANUAL INTEGRATION

1400 vr82a.d VR82A SG-02-S-C 1 Benzoic acid, Acenaphthylene, Dibenzo(a,h)anthracene,

1436 vr82b.d VR82B SG-03-S-C 1 Benzoic acid, Acenaphthylene, Dibenzo(a,h)anthracene,

1513 vr82c.d VR82C SG-04-S-C 1 NO MANUAL INTEGRATION

1550 vr82cms.d VR82CMS SG-04-S-C 1 NO MANUAL INTEGRATION

1626 vr82cmsd.d VR82CMSD SG-04-S-C 1 NO MANUAL INTEGRATION

1703 vr82d.d VR82D SG-05-S-C 1 Benzoic acid, Dibenzo(a,h)anthracene,

1739 vr82e.d VR82E SG-06-S-C 1 Benzoic acid, Di-n-octylphthalate, Dibenzo(a,h)anthracene,

1816 vr82f.d VR82F SG-07-S-C 1 Di-n-octylphthalate, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene,

1853 vr82g.d VR82G SG-07-S-C 1 Di-n-octylphthalate,

1929 vr82h.d VR82H SG-08-S-C 1 NO MANUAL INTEGRATION

2006 vr82i.d VR82I SG-09-S-C 1 NO MANUAL INTEGRATION

1246 vr82mb.d VR82MBS1 VR82MBS1 1 NO MANUAL INTEGRATION

1323 vr82sb.d VR82LCSS1 VR82LCSS1 1 NO MANUAL INTEGRATION

VR82 : 00050

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt10.i/20121205.b

Instrument: nt10.i Date: 05-DEC-2012 Method: ABN.m

INITIAL CAL: 29-NOV-2012

Compound	%RSD or R ²

NO Q-FLAGS	

CONTINUING CAL: 05-DEC-2012

Compound	%D

Phenol	24.5
4-Methylphenol	81.5
1,2,4-Trichlorobenzene	39.5
Hexachlorobutadiene	-23.9

Date : 05-DEC-2012 11:34

Client ID: DF1PP

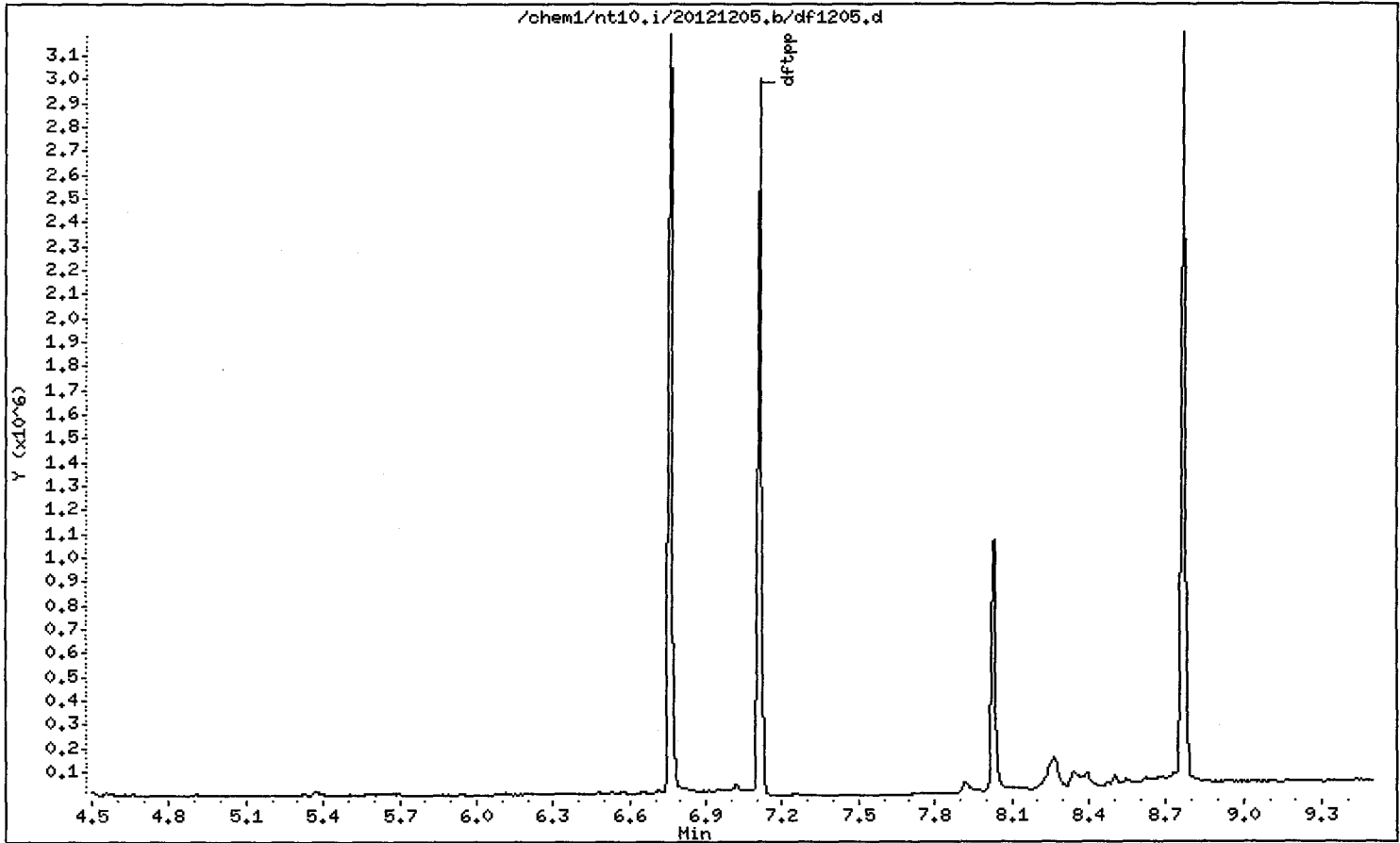
Instrument: nt10.i

Sample Info: DF1PP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



Date : 05-DEC-2012 11:34

Client ID: DFTPP

Instrument: nt10.i

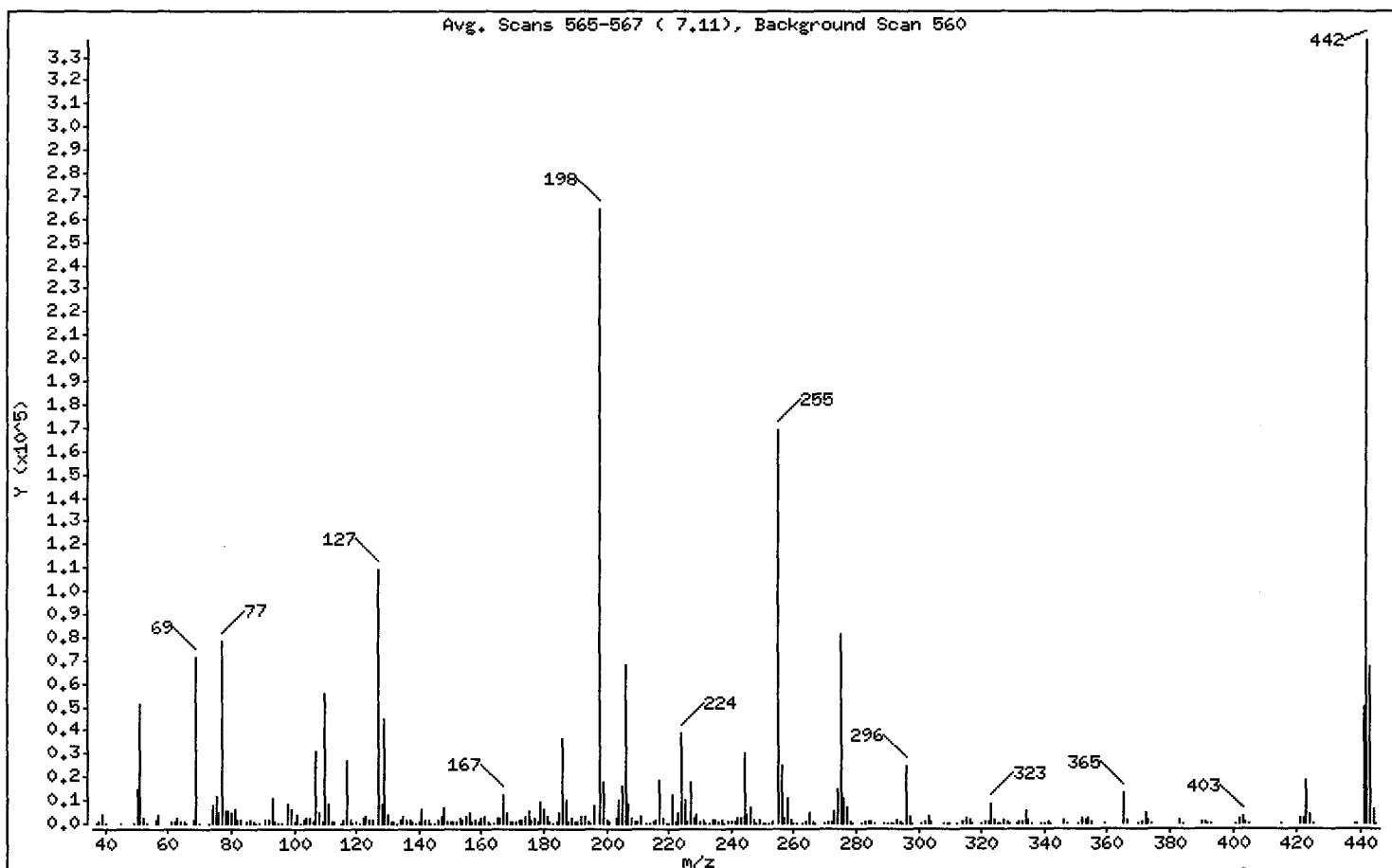
Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	19.47
68	Less than 2.00% of mass 69	0.53 (1.96)
69	Mass 69 relative abundance	26.99
70	Less than 2.00% of mass 69	0.11 (0.40)
127	10.00 - 80.00% of mass 198	41.47
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 60.00% of mass 198	30.80
365	Greater than 1.00% of mass 198	5.02
441	0.01 - 24.00% of mass 442	19.09 (14.95)
442	50.00 - 200.00% of mass 198	127.64
443	15.00 - 24.00% of mass 442	25.50 (19.98)

Date : 05-DEC-2012 11:34

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1205.d

Spectrum: Avg. Scans 565-567 (7.11), Background Scan 560

Location of Maximum: 442.00

Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37,00	231	133,00	102	211,00	2847	296,00	24808
38,00	764	134,00	1460	213,00	263	297,00	3484
39,00	3694	135,00	3396	214,00	55	298,00	269
40,00	138	136,00	1579	215,00	862	301,00	375
45,00	58	137,00	1583	216,00	1641	302,00	480
49,00	152	138,00	458	217,00	18976	303,00	3002
50,00	14532	139,00	278	218,00	2362	304,00	780
51,00	51472	140,00	634	219,00	255	308,00	362
52,00	2640	141,00	6195	220,00	91	309,00	282
53,00	147	142,00	1747	221,00	12545	310,00	301
56,00	1816	143,00	1372	222,00	1115	312,00	60
57,00	3661	144,00	387	223,00	4289	314,00	730
61,00	829	145,00	240	224,00	38864	315,00	2693
62,00	980	146,00	1188	225,00	10350	316,00	1477
63,00	2658	147,00	2864	226,00	1140	317,00	321
64,00	402	148,00	6976	227,00	17536	320,00	54
65,00	1140	149,00	1126	228,00	2585	321,00	792
66,00	116	150,00	409	229,00	3585	322,00	437
68,00	1397	151,00	805	230,00	512	323,00	8265
69,00	71344	152,00	519	231,00	1470	324,00	1527
70,00	285	153,00	2074	232,00	247	325,00	168
73,00	194	154,00	1555	233,00	360	326,00	214
74,00	7785	155,00	3473	234,00	1172	327,00	1478
75,00	11715	156,00	4844	235,00	1258	328,00	852
76,00	4269	157,00	1015	236,00	863	329,00	245
77,00	77976	158,00	1208	237,00	1499	331,00	51
78,00	5332	159,00	898	238,00	212	332,00	641
79,00	5687	160,00	2024	239,00	569	333,00	914
80,00	4417	161,00	3063	240,00	614	334,00	5545
81,00	6171	162,00	807	241,00	809	335,00	1399
82,00	1389	163,00	123	242,00	2145	336,00	139
83,00	1185	164,00	368	243,00	2309	339,00	120
85,00	930	165,00	2315	244,00	30568	340,00	112
86,00	1883	166,00	2083	245,00	4218	341,00	1050
87,00	854	167,00	12545	246,00	6959	342,00	290

Date : 05-DEC-2012 11:34

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1205.d
 Spectrum: Avg. Scans 565-567 (7.11), Background Scan 560
 Location of Maximum: 442.00
 Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	335	168.00	4990	247.00	1360	346.00	1809
89.00	219	169.00	1063	248.00	296	347.00	337
91.00	1289	170.00	488	249.00	1175	351.00	62
92.00	1661	171.00	644	250.00	253	352.00	2705
93.00	10715	172.00	1170	251.00	387	353.00	1847
94.00	798	173.00	1475	252.00	380	354.00	2656
95.00	19	174.00	2790	253.00	435	355.00	456
96.00	141	175.00	5104	255.00	169344	359.00	176
98.00	8569	176.00	1552	256.00	24904	365.00	13270
99.00	6333	177.00	2382	257.00	2057	366.00	1729
100.00	571	178.00	949	258.00	10793	370.00	335
101.00	3811	179.00	9568	259.00	1731	371.00	809
102.00	173	180.00	6533	260.00	281	372.00	4908
103.00	1222	181.00	3087	261.00	276	373.00	1254
104.00	2678	182.00	458	263.00	55	374.00	142
105.00	2255	183.00	355	264.00	406	383.00	1346
106.00	893	184.00	826	265.00	4328	384.00	358
107.00	31008	185.00	4832	266.00	515	390.00	714
108.00	4724	186.00	36320	267.00	28	391.00	474
109.00	893	187.00	10351	270.00	279	392.00	347
110.00	56048	188.00	1130	271.00	428	393.00	56
111.00	8160	189.00	2426	272.00	591	401.00	354
112.00	1073	190.00	474	273.00	5275	402.00	2171
113.00	400	191.00	1052	274.00	14445	403.00	3038
115.00	36	192.00	3119	275.00	81432	404.00	972
116.00	1892	193.00	3295	276.00	10770	405.00	133
117.00	26768	194.00	765	277.00	7220	415.00	78
118.00	1929	195.00	91	278.00	1159	421.00	2590
119.00	44	196.00	7767	279.00	275	422.00	2302
120.00	407	198.00	264320	282.00	139	423.00	18880
121.00	75	199.00	18176	283.00	680	424.00	3858
122.00	2222	200.00	1387	284.00	561	425.00	368
123.00	3397	201.00	1055	285.00	1137	438.00	115
124.00	1469	203.00	1968	286.00	250	439.00	75
125.00	1428	204.00	9887	289.00	305	441.00	50456

Date : 05-DEC-2012 11:34

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1205.d

Spectrum: Avg. Scans 565-567 (7.11), Background Scan 560

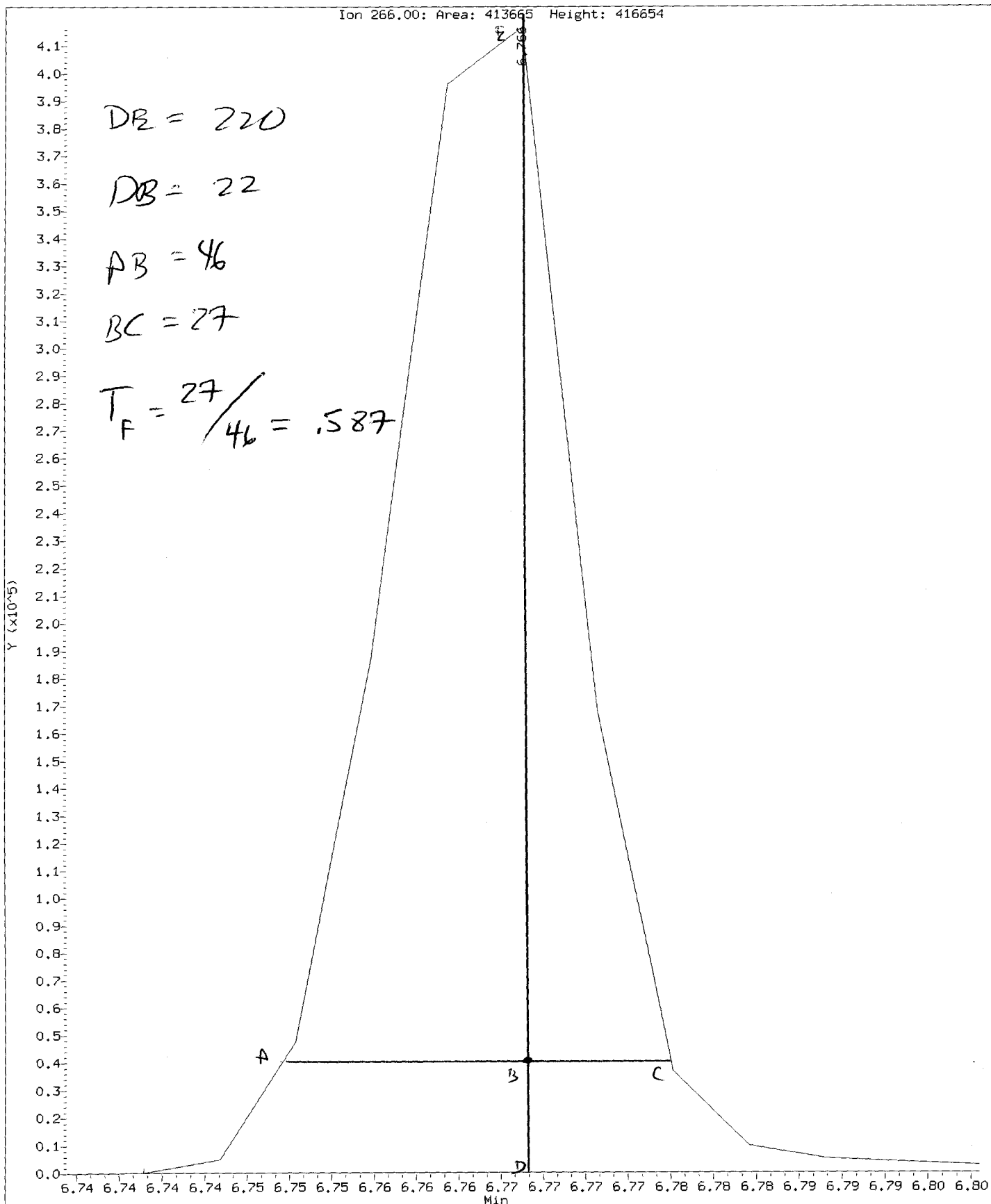
Location of Maximum: 442.00

Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
127.00	109632	205.00	16464	290.00	160	442.00	337408
128.00	8418	206.00	68288	291.00	183	443.00	67400
129.00	44784	207.00	8279	292.00	351	444.00	6285
130.00	3816	208.00	2392	293.00	1569	445.00	338
131.00	763	209.00	676	294.00	397		
132.00	422	210.00	1147	295.00	252		

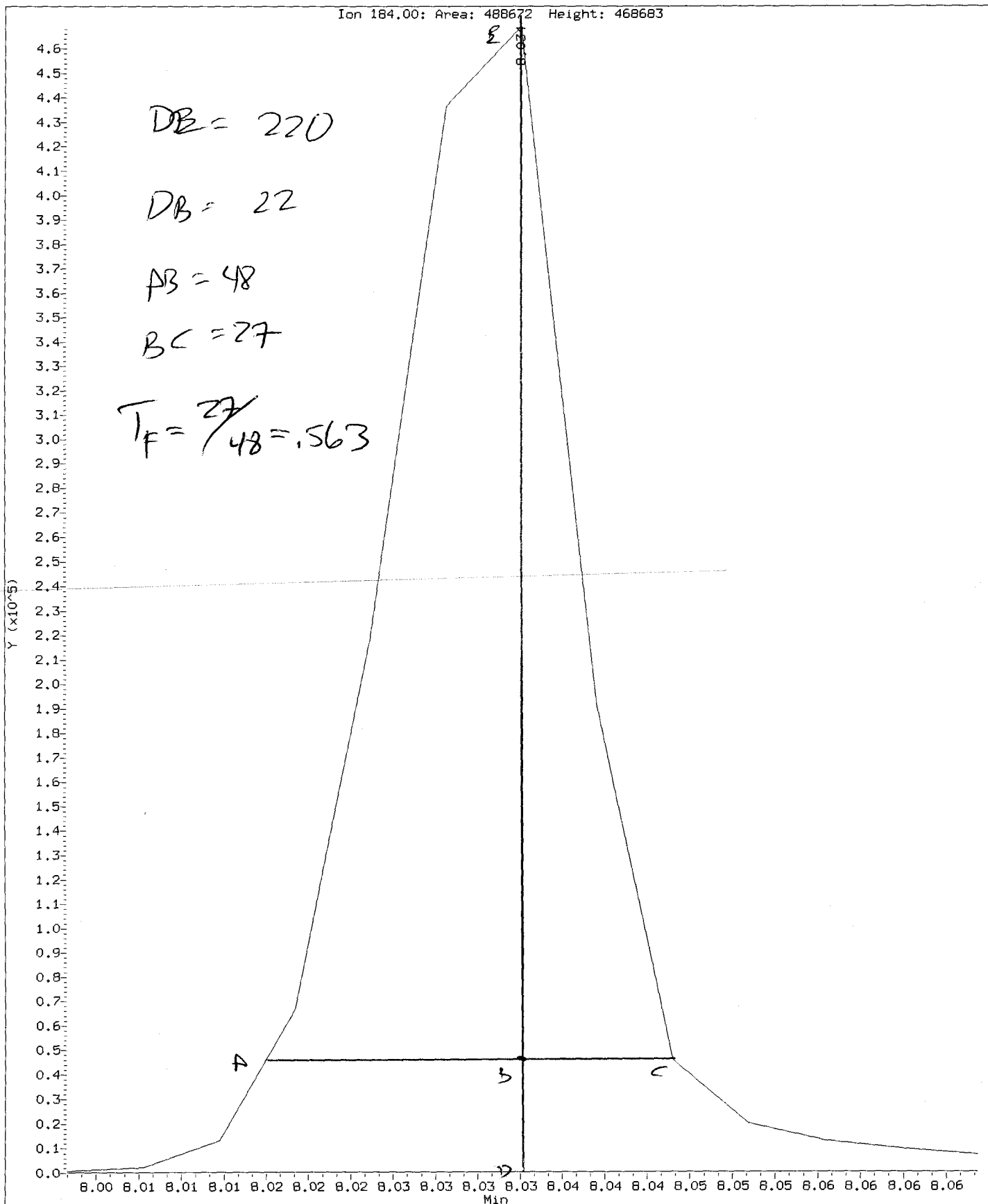
Data File: /chem1/nt10.1/20121205.b/ddt.b/df1205.d
Injection Date: 05-DEC-2012 11:34
Instrument: nt10.1
Client Sample ID: DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt10.1/20121205.b/ddt.b/df1205.d
Injection Date: 05-DEC-2012 11:34
Instrument: nt10.1
Client Sample ID: DFTPP

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20121205.b/ddt.b/df1205.d ARI ID: DFTPP
Method: /chem1/nt10.i/20121205.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 05-DEC-2012 11:34 Instrument: nt10.i

COMPOUND	RT	AREA
Pentachlorophenol	6.766	413664
Benzidine	8.034	488672
4,4'-DDE	8.211	1456
4,4'-DDD	8.505	10443
4,4'-DDT	8.772	618974

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(1456 + 10443) * 100}{(1456 + 10443 + 618974)}$$

$$\text{DDT Percent Breakdown} = 1.9 \%$$

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/cc1205.d
 Lab Smp Id: CC1205
 Inj Date : 05-DEC-2012 11:49
 Operator : VTS/YZ
 Smp Info : CC1205
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 05-Dec-2012 12:41 van
 Cal Date : 29-NOV-2012 15:30
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic1129i.d
 Continuing Calibration Sample
 Compound Sublist: SHORTPSDDA.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.474	6.474	(0.735)	171568	5.00000	5.205
\$ 2 Phenol-d5	99	8.205	8.205	(0.932)	216853	5.00000	5.317
3 Phenol	94	8.228	8.228	(0.934)	267458	5.00000	6.225
\$ 5 2-Chlorophenol-d4	132	8.429	8.429	(0.957)	172586	5.00000	4.891
7 1,3-Dichlorobenzene	146	8.731	8.731	(0.991)	192735	5.00000	4.647
* 8 1,4-Dichlorobenzene-d4	152	8.808	8.808	(1.000)	103035	4.00000	
9 1,4-Dichlorobenzene	146	8.839	8.839	(1.004)	188453	5.00000	4.844
\$ 10 1,2-Dichlorobenzene-d4	152	9.189	9.189	(1.043)	121837	5.00000	4.735
12 1,2-Dichlorobenzene	146	9.212	9.212	(1.046)	181440	5.00000	4.860
11 Benzyl alcohol	108	9.134	9.134	(1.037)	109308	5.00000	5.380
13 2-Methylphenol	108	9.414	9.414	(1.069)	193764	5.00000	5.248
17 Hexachloroethane	117	9.841	9.841	(1.117)	72718	5.00000	4.549
15 4-Methylphenol	108	9.709	9.709	(1.102)	198756	5.00000	9.074
\$ 18 Nitrobenzene-d5	82	9.988	9.988	(0.871)	169104	5.00000	4.601
22 2,4-Dimethylphenol	107	10.825	10.825	(0.944)	317709	10.00000	8.513
24 Benzoic acid	105	11.118	11.118	(0.969)	504845	20.00000	20.35
26 1,2,4-Trichlorobenzene	180	11.395	11.395	(0.993)	152124	5.00000	6.975
* 27 Naphthalene-d8	136	11.472	11.472	(1.000)	392234	4.00000	
28 Naphthalene	128	11.519	11.519	(1.004)	490774	5.00000	5.143
30 Hexachlorobutadiene	225	11.928	11.928	(1.040)	92995	5.00000	3.804
32 2-Methylnaphthalene	142	13.027	13.027	(1.135)	338100	5.00000	4.755
\$ 36 2-Fluorobiphenyl	172	13.894	13.894	(0.904)	420046	5.00000	5.194
39 Dimethylphthalate	163	14.892	14.892	(0.969)	335092	5.00000	4.540
40 Acenaphthylene	152	15.024	15.024	(0.977)	510702	5.00000	4.729
* 42 Acenaphthene-d10	164	15.372	15.372	(1.000)	228483	4.00000	
44 Acenaphthene	153	15.441	15.441	(1.005)	300880	5.00000	4.874
46 Dibenzofuran	168	15.797	15.797	(1.028)	424928	5.00000	4.638

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
50 Diethylphthalate	149	16.493	16.493	(1.073)	312665	5.00000	4.047
49 Fluorene	166	16.570	16.570	(1.078)	349448	5.00000	4.598
54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.904)	223383	5.00000	4.577
\$ 55 2,4,6-Tribromophenol	330	17.156	17.156	(1.116)	64316	5.00000	4.779
57 Hexachlorobenzene	284	17.990	17.990	(0.964)	115085	5.00000	4.039
58 Pentachlorophenol	266	18.400	18.400	(0.986)	179552	10.0000	9.852
* 59 Phenanthrene-d10	188	18.656	18.656	(1.000)	397408	4.00000	
60 Phenanthrene	178	18.702	18.702	(1.002)	502209	5.00000	5.104
61 Anthracene	178	18.803	18.803	(1.008)	524937	5.00000	4.963
63 Di-n-butylphthalate	149	20.056	20.056	(1.075)	592387	5.00000	4.734
64 Fluoranthene	202	21.139	21.139	(1.133)	597339	5.00000	4.816
65 Pyrene	202	21.565	21.565	(0.907)	620526	5.00000	5.034
\$ 66 Terphenyl-d14	244	21.898	21.898	(0.921)	391980	5.00000	4.757
67 Butylbenzylphthalate	149	22.858	22.858	(0.962)	242918	5.00000	4.851
68 Benzo(a)anthracene	228	23.748	23.748	(0.999)	563598	5.00000	4.713
* 69 Chrysene-d12	240	23.771	23.771	(1.000)	420761	4.00000	
71 Chrysene	228	23.818	23.818	(1.002)	513383	5.00000	4.832
72 bis(2-Ethylhexyl)phthalate	149	23.918	23.918	(0.961)	367441	5.00000	4.863
* 134 Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	547636	4.00000	
73 Di-n-octylphthalate	149	24.909	24.909	(1.000)	615615	5.00000	4.959
76 Benzo(a)pyrene	252	26.102	26.102	(0.996)	525974	5.00000	4.475
* 77 Perylene-d12	264	26.210	26.210	(1.000)	411812	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.489	28.489	(1.087)	637650	5.00000	4.787
79 Dibenzo(a,h)anthracene	278	28.512	28.512	(1.088)	506674	5.00000	4.793
80 Benzo(g,h,i)perylene	276	29.149	29.149	(1.112)	545897	5.00000	4.789
105 1-methylnaphthalene	142	13.259	13.259	(1.156)	302374	5.00000	4.634
187 Total Benzofluoranthenes	252	25.575	25.575	(0.976)	1160420	10.0000	9.575
98 Retene	219				Compound Not Detected.		
120 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		

W
 R-6.12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: cc1205.d
 Lab Smp Id: CC1205
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info:

Calibration Date: 05-DEC-2012
 Calibration Time: 10:24
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	103035	26.31
27 Naphthalene-d8	299399	149700	598798	392234	31.01
42 Acenaphthene-d10	178564	89282	357128	228483	27.96
59 Phenanthrene-d10	305410	152705	610820	397408	30.12
69 Chrysene-d12	323853	161926	647706	420761	29.92
134 Di-n-octylphthala	427845	213922	855690	547636	28.00
77 Perylene-d12	305316	152658	610632	411812	34.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.81	0.00
27 Naphthalene-d8	11.47	10.97	11.97	11.47	0.00
42 Acenaphthene-d10	15.37	14.87	15.87	15.37	0.00
59 Phenanthrene-d10	18.66	18.16	19.16	18.66	0.00
69 Chrysene-d12	23.77	23.27	24.27	23.77	0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	0.00
77 Perylene-d12	26.21	25.71	26.71	26.21	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.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 05-DEC-2012 11:49
 Lab File ID: cc1205.d Init. Cal. Date(s): 29-NOV-2012 29-NOV-2012
 Analysis Type: Init. Cal. Times: 09:54 15:30
 Lab Sample ID: CC1205 Quant Type: ISTD
 Method: /chem1/nt10.i/20121205.b/ABN.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 1 2-Fluorophenol	1.27957	1.33211	1.33211	0.010	4.10668	20.00000	Averaged
\$ 2 Phenol-d5	1.58333	1.68372	1.68372	0.010	6.34033	20.00000	Averaged
3 Phenol	1.66795	2.07664	2.07664	0.100	24.50221	20.00000	Averaged <-
\$ 5 2-Chlorophenol-d4	1.36995	1.34002	1.34002	0.010	-2.18478	20.00000	Averaged
7 1,3-Dichlorobenzene	1.61009	1.49646	1.49646	0.010	-7.05709	20.00000	Averaged
9 1,4-Dichlorobenzene	1.51045	1.46322	1.46322	0.010	-3.12748	20.00000	Averaged
\$ 10 1,2-Dichlorobenzene-d4	0.99893	0.94599	0.94599	0.010	-5.30032	20.00000	Averaged
12 1,2-Dichlorobenzene	1.44945	1.40876	1.40876	0.010	-2.80673	20.00000	Averaged
11 Benzyl alcohol	0.78872	0.84871	0.84871	0.010	7.60524	20.00000	Averaged
13 2-Methylphenol	1.43339	1.50445	1.50445	0.700	4.95735	20.00000	Averaged
17 Hexachloroethane	0.62060	0.56461	0.56461	0.300	-9.02290	20.00000	Averaged
15 4-Methylphenol	0.85032	1.54321	1.54321	0.600	81.48690	20.00000	Averaged <-
\$ 18 Nitrobenzene-d5	0.37481	0.34490	0.34490	0.010	-7.97946	20.00000	Averaged
22 2,4-Dimethylphenol	0.38062	0.32400	0.32400	0.200	-14.87496	20.00000	Averaged
24 Benzoic acid	20.34646	20.00000	0.25742	0.010	1.73230	20.00000	Quadratic
26 1,2,4-Trichlorobenzene	0.22242	0.31027	0.31027	0.010	39.49799	20.00000	Averaged <-
28 Naphthalene	0.97316	1.00098	1.00098	0.100	2.85865	20.00000	Averaged
30 Hexachlorobutadiene	0.24932	0.18967	0.18967	0.010	-23.92280	20.00000	Averaged <-
32 2-Methylnaphthalene	0.72505	0.68959	0.68959	0.300	-4.89058	20.00000	Averaged
\$ 36 2-Fluorobiphenyl	1.41574	1.47073	1.47073	0.010	3.88390	20.00000	Averaged
39 Dimethylphthalate	1.29227	1.17328	1.17328	0.010	-9.20799	20.00000	Averaged
40 Acenaphthylene	1.89060	1.78815	1.78815	0.900	-5.41876	20.00000	Averaged
44 Acenaphthene	1.08066	1.05349	1.05349	0.100	-2.51401	20.00000	Averaged
46 Dibenzofuran	1.60380	1.48782	1.48782	0.800	-7.23143	20.00000	Averaged
50 Diethylphthalate	1.35255	1.09475	1.09475	0.010	-19.06033	20.00000	Averaged
49 Fluorene	1.33054	1.22354	1.22354	0.100	-8.04152	20.00000	Averaged
54 N-Nitrosodiphenylamine	0.49120	0.44968	0.44968	0.010	-8.45311	20.00000	Averaged
\$ 55 2,4,6-Tribromophenol	0.23562	0.22519	0.22519	0.010	-4.42605	20.00000	Averaged
57 Hexachlorobenzene	0.28680	0.23167	0.23167	0.100	-19.22171	20.00000	Averaged
58 Pentachlorophenol	0.18344	0.18072	0.18072	0.010	-1.47881	20.00000	Averaged
60 Phenanthrene	0.99039	1.01097	1.01097	0.700	2.07819	20.00000	Averaged
61 Anthracene	1.06454	1.05672	1.05672	0.700	-0.73477	20.00000	Averaged
63 Di-n-butylphthalate	1.25942	1.19250	1.19250	0.010	-5.31373	20.00000	Averaged
64 Fluoranthene	1.24834	1.20247	1.20247	0.600	-3.67443	20.00000	Averaged
65 Pyrene	1.17183	1.17982	1.17982	0.600	0.68115	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

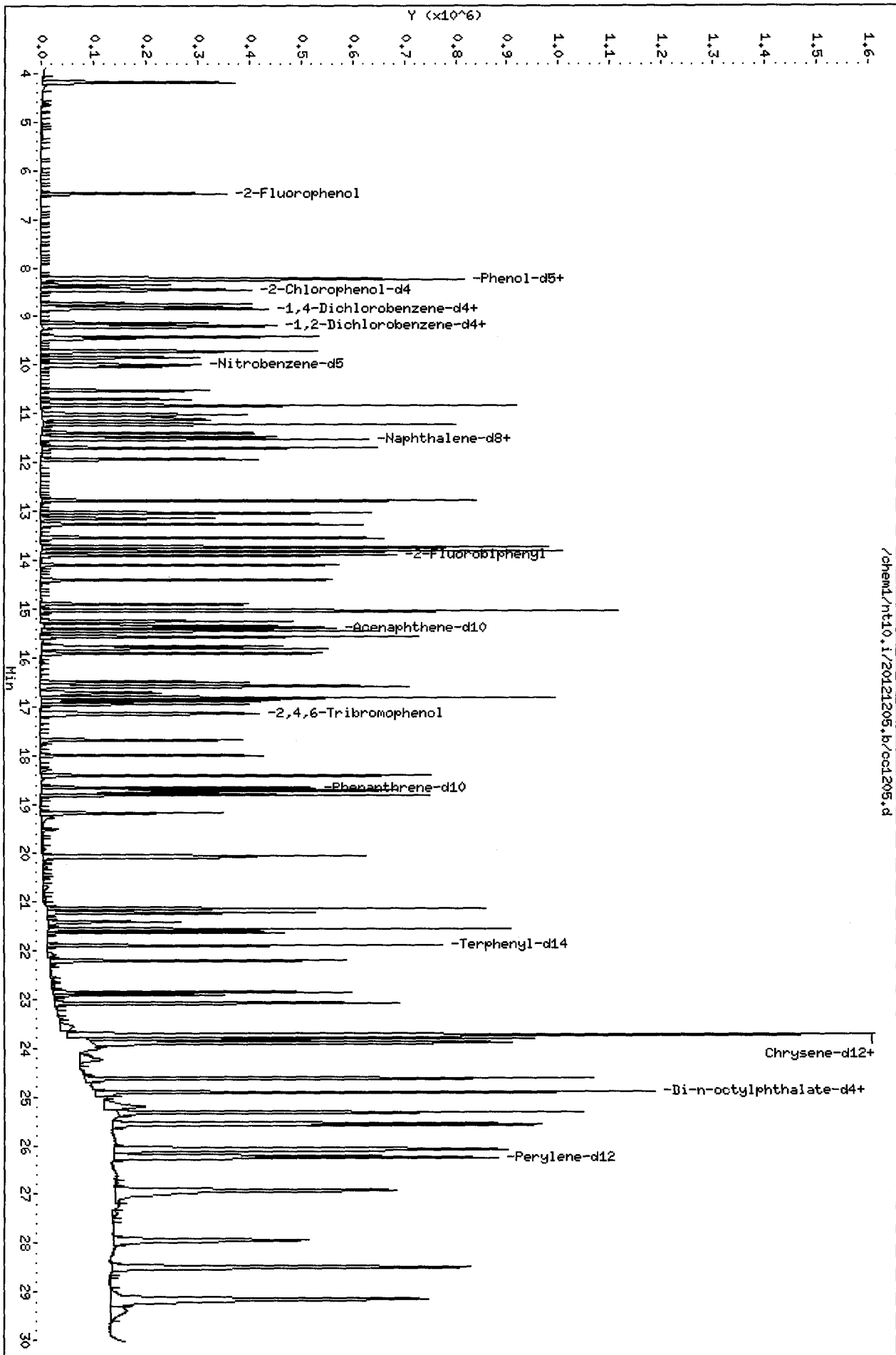
Instrument ID: nt10.i Injection Date: 05-DEC-2012 11:49
 Lab File ID: cc1205.d Init. Cal. Date(s): 29-NOV-2012 29-NOV-2012
 Analysis Type: Init. Cal. Times: 09:54 15:30
 Lab Sample ID: CC1205 Quant Type: ISTD
 Method: /chem1/nt10.i/20121205.b/ABN.m

COMPOUND	CCAL		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF5	RRF5	RRF	%D / %DRIFT	%D / %DRIFT	
66 Terphenyl-d14	0.78331	0.74528	0.74528	0.010	-4.85472	20.00000	Averaged
67 Butylbenzylphthalate	0.47602	0.46186	0.46186	0.010	-2.97359	20.00000	Averaged
68 Benzo(a)anthracene	1.13688	1.07158	1.07158	0.700	-5.74412	20.00000	Averaged
71 Chrysene	1.00999	0.97610	0.97610	0.700	-3.35527	20.00000	Averaged
72 bis(2-Ethylhexyl)phthalate	0.55191	0.53677	0.53677	0.010	-2.74423	20.00000	Averaged
73 Di-n-octylphthalate	0.90675	0.89931	0.89931	0.010	-0.82061	20.00000	Averaged
76 Benzo(a)pyrene	1.14156	1.02177	1.02177	0.700	-10.49304	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.29375	1.23872	1.23872	0.500	-4.25355	20.00000	Averaged
79 Dibenzo(a,h)anthracene	1.02672	0.98428	0.98428	0.400	-4.13329	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.10723	1.06048	1.06048	0.500	-4.22281	20.00000	Averaged
105 1-methylnaphthalene	0.66545	0.61672	0.61672	0.010	-7.32329	20.00000	Averaged
187 Total Benzofluoranthenes	1.17711	1.12714	1.12714	0.010	-4.24573	20.00000	Averaged
98 Retene	++++	0.00208	0.00208	0.010	++++	20.00000	Averaged <-
120 2,3,4,6-Tetrachlorophenol	0.00104	0.00112	0.00112	0.010	7.33320	20.00000	Averaged <-

Column phase: ZB-5msi

Instrument: nt10.i
Operator: VTS/VZ
Column diameter: 0.25

/chem1/nt10.i/20121205.b/ccl205.d



CO-ELUTION SUMMARY FOR FILE - cc1205.d

Lab ID: CC1205, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82mb.d
 Lab Smp Id: VR82MBS1 Client Smp ID: VR82MBS1
 Inj Date : 05-DEC-2012 12:46
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82MBS1
 Misc Info : 12-22481
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 3 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.513	6.474	(0.738)	131032	4.63721	463.7	
\$ 2 Phenol-d5	99	8.221	8.205	(0.932)	172245	4.92624	492.6	
3 Phenol	94	Compound Not Detected.						
\$ 5 2-Chlorophenol-d4	132	8.453	8.429	(0.958)	148271	4.90110	490.1	
7 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 8 1,4-Dichlorobenzene-d4	152	8.824	8.808	(1.000)	88332	4.00000		
9 1,4-Dichlorobenzene	146	Compound Not Detected.						
\$ 10 1,2-Dichlorobenzene-d4	152	9.204	9.189	(1.043)	72289	3.27701	327.7	
12 1,2-Dichlorobenzene	146	Compound Not Detected.						
11 Benzyl alcohol	108	Compound Not Detected.						
13 2-Methylphenol	108	Compound Not Detected.						
17 Hexachloroethane	117	Compound Not Detected.						
15 4-Methylphenol	108	Compound Not Detected.						
\$ 18 Nitrobenzene-d5	82	9.996	9.988	(0.870)	94823	2.97332	297.3	
22 2,4-Dimethylphenol	107	Compound Not Detected.						

Compounds	QUANT	SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
									ON-COLUMN	FINAL
	MASS								(ug/mL)	(ug/kg)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====	=====
24 Benzoic acid	105							Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180							Compound Not Detected.		
* 27 Naphthalene-d8	136		11.488	11.472	(1.000)		340344	4.00000		
28 Naphthalene	128							Compound Not Detected.		
30 Hexachlorobutadiene	225							Compound Not Detected.		
32 2-Methylnaphthalene	142							Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.910	13.894	(0.904)		228829	3.24635	324.6	
39 Dimethylphthalate	163							Compound Not Detected.		
40 Acenaphthylene	152							Compound Not Detected.		
* 42 Acenaphthene-d10	164		15.388	15.372	(1.000)		199155	4.00000		
44 Acenaphthene	153							Compound Not Detected.		
46 Dibenzofuran	168							Compound Not Detected.		
50 Diethylphthalate	149							Compound Not Detected.		
49 Fluorene	166							Compound Not Detected.		
54 N-Nitrosodiphenylamine	169							Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		17.172	17.156	(1.116)		60732	5.17691	517.7	
57 Hexachlorobenzene	284							Compound Not Detected.		
58 Pentachlorophenol	266							Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.672	18.656	(1.000)		335355	4.00000		
60 Phenanthrene	178							Compound Not Detected.		
61 Anthracene	178							Compound Not Detected.		
63 Di-n-butylphthalate	149							Compound Not Detected.		
64 Fluoranthene	202							Compound Not Detected.		
65 Pyrene	202							Compound Not Detected.		
\$ 66 Terphenyl-d14	244		21.913	21.898	(0.921)		302816	4.01698	401.7	
67 Butylbenzylphthalate	149							Compound Not Detected.		
68 Benzo (a) anthracene	228							Compound Not Detected.		
* 69 Chrysene-d12	240		23.787	23.771	(1.000)		384953	4.00000		
71 Chrysene	228							Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149		23.934	23.918	(0.961)		11993	0.17785	17.79	
* 134 Di-n-octylphthalate-d4	153		24.910	24.902	(1.000)		488712	4.00000		
73 Di-n-octylphthalate	149							Compound Not Detected.		
76 Benzo (a) pyrene	252							Compound Not Detected.		
* 77 Perylene-d12	264		26.226	26.210	(1.000)		373822	4.00000		
78 Indeno (1,2,3-cd) pyrene	276							Compound Not Detected.		
79 Dibenzo (a,h) anthracene	278							Compound Not Detected.		
80 Benzo (g,h,i) perylene	276							Compound Not Detected.		
105 1-methylnaphthalene	142							Compound Not Detected.		
187 Total Benzofluoranthenes	252							Compound Not Detected.		
98 Retene	219							Compound Not Detected.		
120 2,3,4,6-Tetrachlorophenol	232							Compound Not Detected.		

12.6.12


Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82mb.d
 Lab Smp Id: VR82MBS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: VR82MBS1
 Level: LOW
 Sample Type: Solid

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	88332	8.29
27 Naphthalene-d8	299399	149700	598798	340344	13.68
42 Acenaphthene-d10	178564	89282	357128	199155	11.53
59 Phenanthrene-d10	305410	152705	610820	335355	9.80
69 Chrysene-d12	323853	161926	647706	384953	18.87
134 Di-n-octylphthala	427845	213922	855690	488712	14.23
77 Perylene-d12	305316	152658	610632	373822	22.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.82	0.18
27 Naphthalene-d8	11.47	10.97	11.97	11.49	0.14
42 Acenaphthene-d10	15.37	14.87	15.87	15.39	0.10
59 Phenanthrene-d10	18.66	18.16	19.16	18.67	0.08
69 Chrysene-d12	23.77	23.27	24.27	23.79	0.07
134 Di-n-octylphthala	24.90	24.40	25.40	24.91	0.03
77 Perylene-d12	26.21	25.71	26.71	26.23	0.06

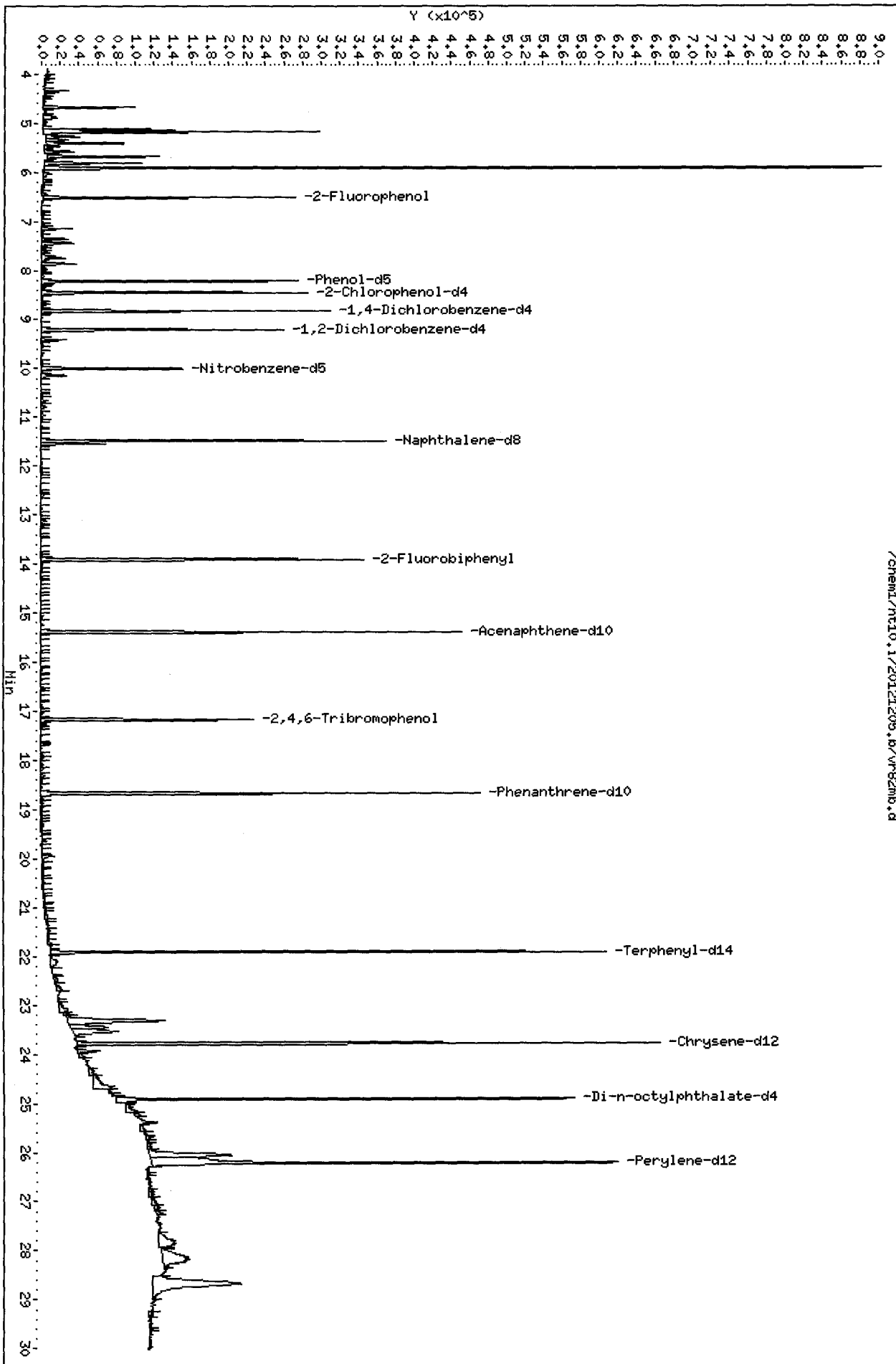
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 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82MBS1	Client Smp ID: VR82MBS1
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: BLANK
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22481	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	750.0	463.7	61.83	30-160
\$ 2 Phenol-d5	750.0	492.6	65.68	30-160
\$ 5 2-Chlorophenol-d4	750.0	490.1	65.35	30-160
\$ 10 1,2-Dichlorobenzen	500.0	327.7	65.54	30-160
\$ 18 Nitrobenzene-d5	500.0	297.3	59.47	30-160
\$ 36 2-Fluorobiphenyl	500.0	324.6	64.93	30-160
\$ 55 2,4,6-Tribromophen	750.0	517.7	69.03	30-160
\$ 66 Terphenyl-d14	500.0	401.7	80.34	30-160



Date : 05-DEC-2012 12:46

Client ID: VR82MBS1

Instrument: nt10.i

Sample Info: VR82MBS1

Volume Injected (uL): 1.0

Operator: VTS/YZ

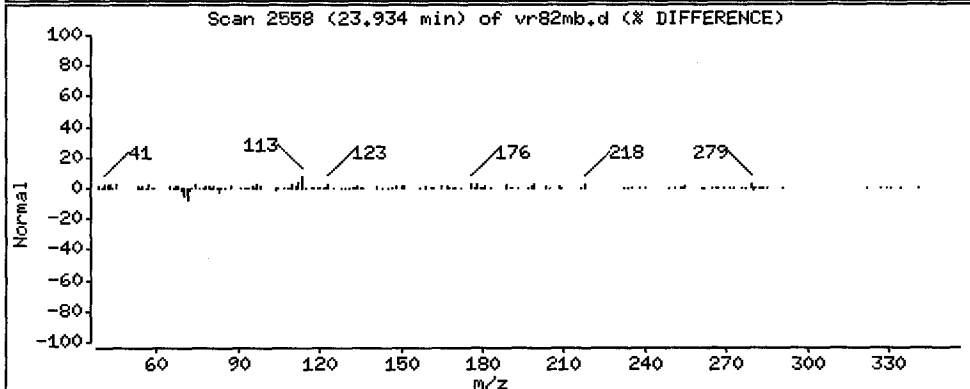
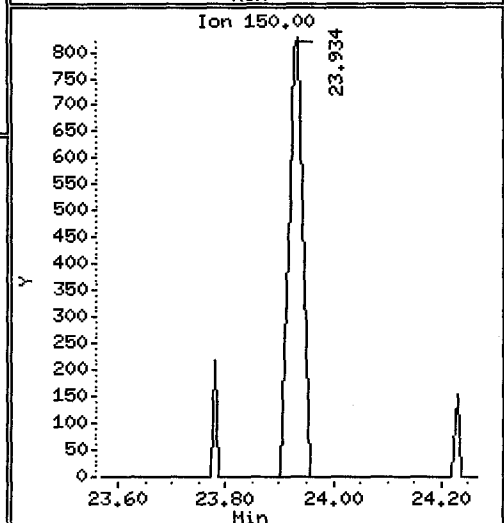
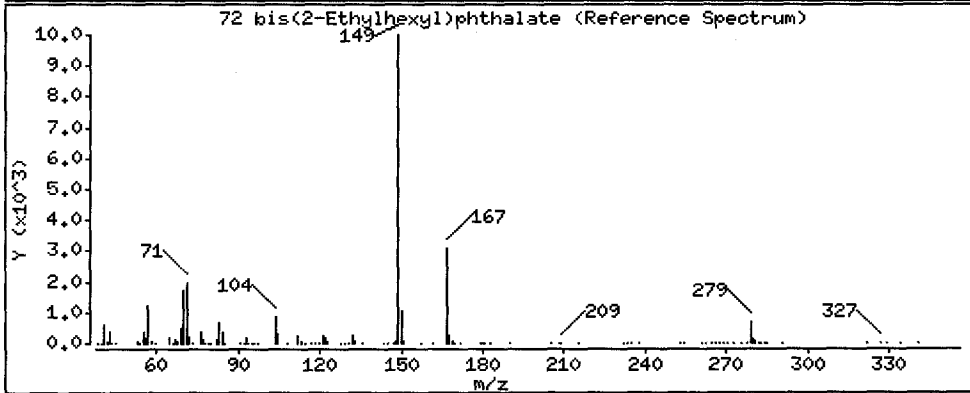
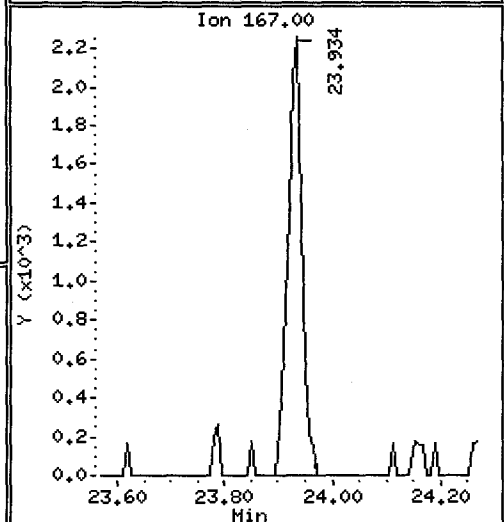
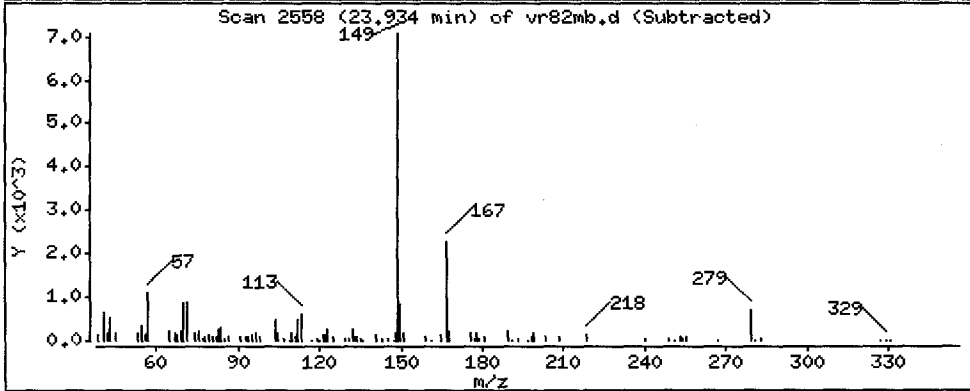
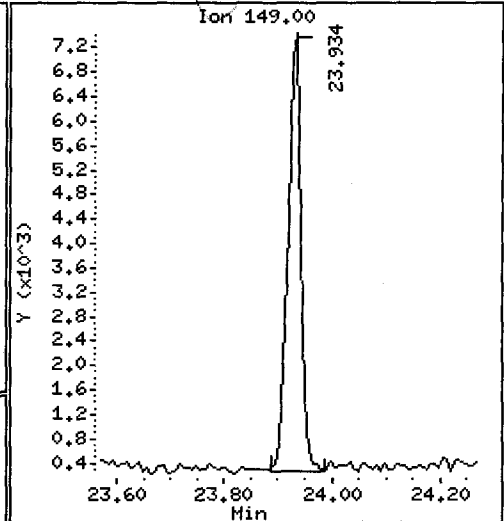
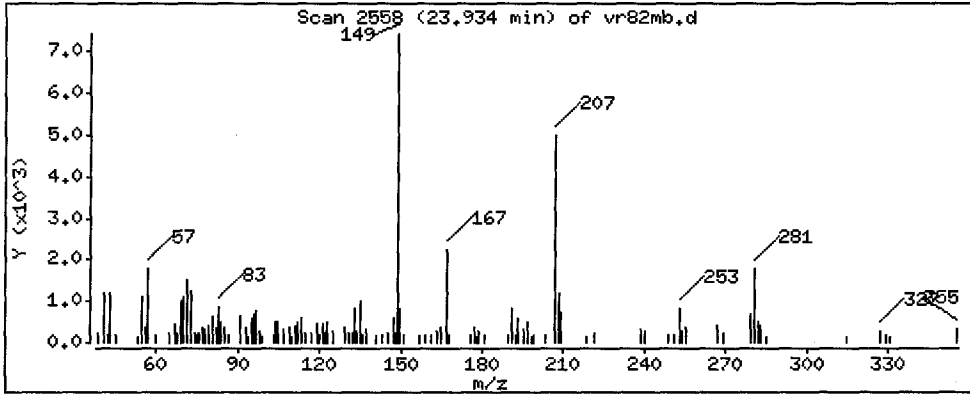
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 17.79 ug/kg

Handwritten signature



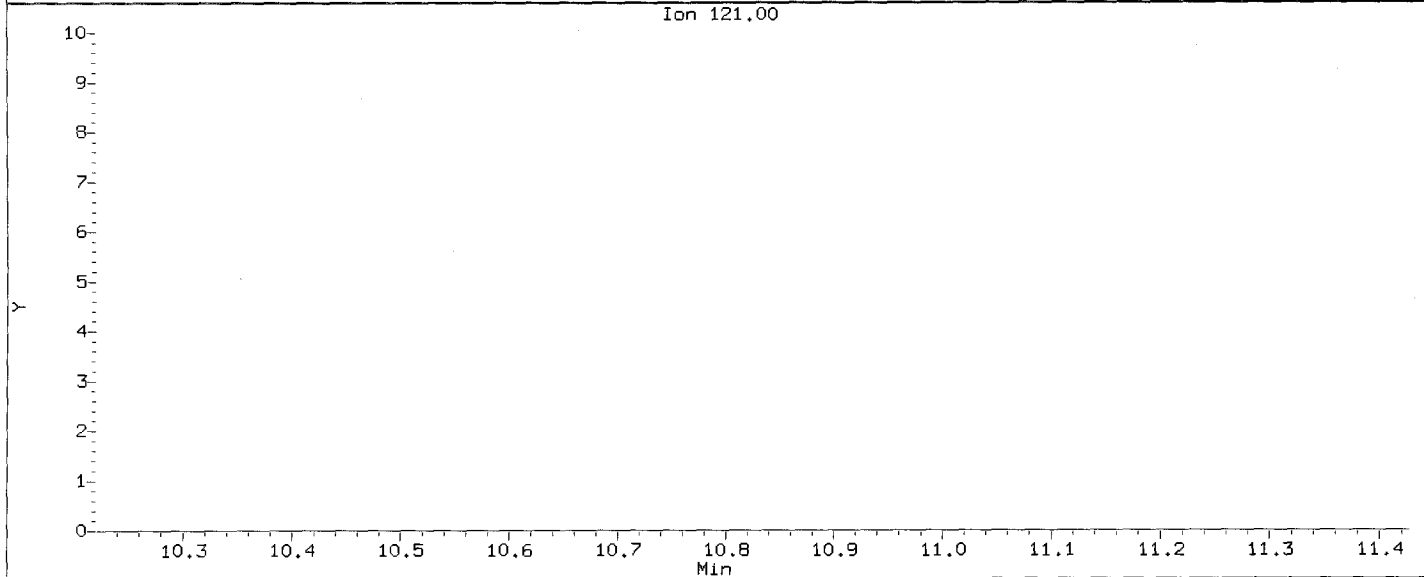
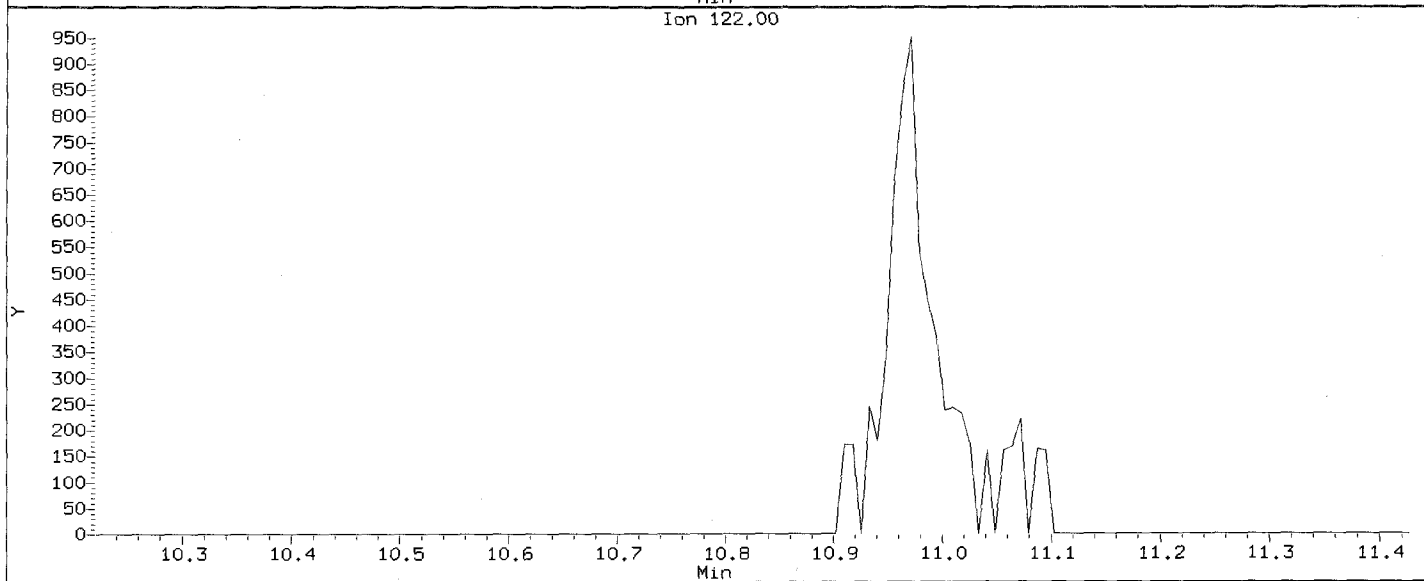
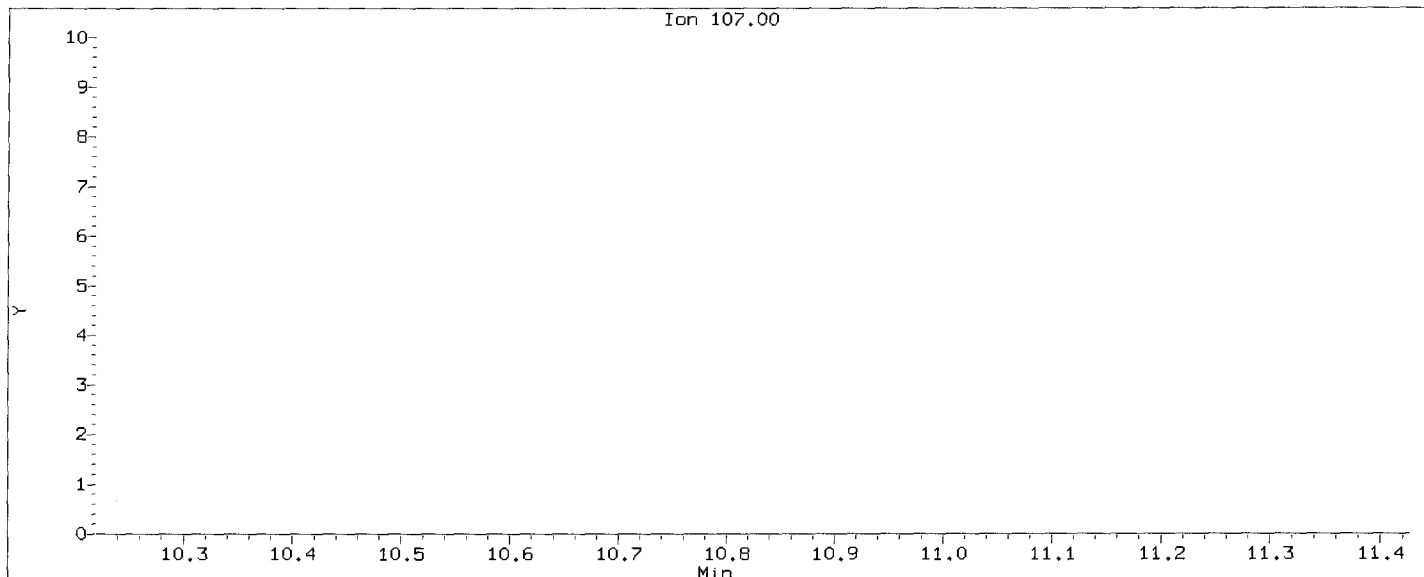
CO-ELUTION SUMMARY FOR FILE - vr82mb.d

Lab ID: VR82MBS1, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82mb.d
Injection Date: 05-DEC-2012 12:46
Instrument: nt10.i
Client Sample ID: VR82MBS1

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82sb.d
 Lab Smp Id: VR82LCSS1 Client Smp ID: VR82LCSS1
 Inj Date : 05-DEC-2012 13:23
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82LCSS1
 Misc Info : 12-22481
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.474	6.474	(0.737)	134500	4.93202	493.2	
\$ 2 Phenol-d5	99	8.182	8.205	(0.931)	180151	5.33863	533.9	
3 Phenol	94	8.205	8.228	(0.934)	147553	4.15078	415.1	
\$ 5 2-Chlorophenol-d4	132	8.406	8.429	(0.957)	149730	5.12826	512.8	
7 1,3-Dichlorobenzene	146	8.715	8.731	(0.992)	108013	3.14769	314.8	
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	85250	4.00000		
9 1,4-Dichlorobenzene	146	8.816	8.839	(1.004)	109384	3.39791	339.8	
\$ 10 1,2-Dichlorobenzene-d4	152	9.165	9.189	(1.043)	68415	3.21352	321.4	
12 1,2-Dichlorobenzene	146	9.189	9.212	(1.046)	102059	3.30381	330.4	
11 Benzyl alcohol	108	9.111	9.134	(1.037)	61559	3.66213	366.2	
13 2-Methylphenol	108	9.383	9.414	(1.068)	84158	2.75483	275.5	
17 Hexachloroethane	117	9.817	9.841	(1.117)	39492	2.98579	298.6	
15 4-Methylphenol	108	9.685	9.709	(1.102)	176473	9.73786	973.8	
\$ 18 Nitrobenzene-d5	82	9.957	9.988	(0.871)	94674	3.02732	302.7	

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/mL)	FINAL (ug/kg)
22 2,4-Dimethylphenol	107	10.786	10.825	(0.943)	187372	5.90010	590.0
24 Benzoic acid	105	11.056	11.118	(0.967)	322078	15.6715	1567
26 1,2,4-Trichlorobenzene	180	11.356	11.395	(0.993)	109838	5.91861	591.9
* 27 Naphthalene-d8	136	11.434	11.472	(1.000)	333748	4.00000	
28 Naphthalene	128	11.480	11.519	(1.004)	279043	3.43658	343.7
30 Hexachlorobutadiene	225	11.889	11.928	(1.040)	55451	2.66564	266.6
32 2-Methylnaphthalene	142	12.980	13.027	(1.135)	197266	3.26082	326.1
\$ 36 2-Fluorobiphenyl	172	13.839	13.894	(0.904)	257234	3.75148	375.1
39 Dimethylphthalate	163	14.846	14.892	(0.969)	241431	3.85744	385.7
40 Acenaphthylene	152	14.970	15.024	(0.977)	293626	3.20667	320.7
* 42 Acenaphthene-d10	164	15.318	15.372	(1.000)	193732	4.00000	
44 Acenaphthene	153	15.387	15.441	(1.005)	184682	3.52855	352.9
46 Dibenzofuran	168	15.743	15.797	(1.028)	272417	3.50705	350.7
50 Diethylphthalate	149	16.431	16.493	(1.073)	249877	3.81444	381.4
49 Fluorene	166	16.516	16.570	(1.078)	227330	3.52767	352.8
54 N-Nitrosodiphenylamine	169	16.817	16.871	(0.904)	154729	3.75448	375.4
\$ 55 2,4,6-Tribromophenol	330	17.102	17.156	(1.117)	67290	5.89649	589.6
57 Hexachlorobenzene	284	17.928	17.990	(0.964)	80553	3.34767	334.8
58 Pentachlorophenol	266	18.338	18.400	(0.986)	152172	9.88755	988.8
* 59 Phenanthrene-d10	188	18.594	18.656	(1.000)	335600	4.00000	
60 Phenanthrene	178	18.640	18.702	(1.002)	347307	4.17972	418.0
61 Anthracene	178	18.741	18.803	(1.008)	323080	3.61730	361.7
63 Di-n-butylphthalate	149	19.994	20.056	(1.075)	443291	4.19522	419.5
64 Fluoranthene	202	21.085	21.139	(1.134)	418824	3.99887	399.9
65 Pyrene	202	21.511	21.565	(0.907)	419486	3.86762	386.8
\$ 66 Terphenyl-d14	244	21.836	21.898	(0.921)	295220	4.07200	407.2
67 Butylbenzylphthalate	149	22.796	22.858	(0.961)	189138	4.29287	429.3
68 Benzo(a)anthracene	228	23.686	23.748	(0.999)	400410	3.80524	380.5
* 69 Chrysene-d12	240	23.717	23.771	(1.000)	370226	4.00000	
71 Chrysene	228	23.756	23.818	(1.002)	357493	3.82422	382.4
72 bis(2-Ethylhexyl)phthalate	149	23.849	23.918	(0.960)	265573	4.00183	400.2
* 134 Di-n-octylphthalate-d4	153	24.832	24.902	(1.000)	480967	4.00000	
73 Di-n-octylphthalate	149	24.847	24.909	(1.001)	466030	4.27438	427.4
76 Benzo(a)pyrene	252	26.024	26.102	(0.996)	333456	3.20233	320.2
* 77 Perylene-d12	264	26.133	26.210	(1.000)	364867	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.380	28.489	(1.086)	470471	3.98665	398.7
79 Dibenzo(a,h)anthracene	278	28.395	28.512	(1.087)	394448	4.21176	421.2
80 Benzo(g,h,i)perylene	276	29.024	29.149	(1.111)	426343	4.22129	422.1
105 1-methylnaphthalene	142	13.213	13.259	(1.156)	184015	3.31418	331.4
187 Total Benzofluoranthenes	252	25.513	25.575	(0.976)	831287	7.74209	774.2
98 Retene	219	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	16.129	16.183	(1.053)	63278	1251.58	125200

12-6-12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82sb.d
 Lab Smp Id: VR82LCSS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: VR82LCSS1
 Level: LOW
 Sample Type: Solid

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	85250	4.51
27 Naphthalene-d8	299399	149700	598798	333748	11.47
42 Acenaphthene-d10	178564	89282	357128	193732	8.49
59 Phenanthrene-d10	305410	152705	610820	335600	9.89
69 Chrysene-d12	323853	161926	647706	370226	14.32
134 Di-n-octylphthala	427845	213922	855690	480967	12.42
77 Perylene-d12	305316	152658	610632	364867	19.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.27
27 Naphthalene-d8	11.47	10.97	11.97	11.43	-0.34
42 Acenaphthene-d10	15.37	14.87	15.87	15.32	-0.35
59 Phenanthrene-d10	18.66	18.16	19.16	18.59	-0.33
69 Chrysene-d12	23.77	23.27	24.27	23.72	-0.23
134 Di-n-octylphthala	24.90	24.40	25.40	24.83	-0.28
77 Perylene-d12	26.21	25.71	26.71	26.13	-0.30

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC. Client SDG: VR82
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: VR82LCSS1 Client Smp ID: VR82LCSS1
 Level: LOW Operator: VTS/YZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: SHORTPSDDA.spk Quant Type: ISTD
 Sublist File: SHORTPSDDA.sub
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	415.1	83.02	30-160
7 1,3-Dichlorobenzen	500.0	314.8	62.95	30-160
9 1,4-Dichlorobenzen	500.0	339.8	67.96	30-160
11 Benzyl alcohol	500.0	366.2	73.24	30-160
12 1,2-Dichlorobenzen	500.0	330.4	66.08	30-160
13 2-Methylphenol	500.0	275.5	55.10	30-160
15 4-Methylphenol	1000	973.8	97.38	30-160
17 Hexachloroethane	500.0	298.6	59.72	30-160
22 2,4-Dimethylphenol	1500	590.0	39.33	30-160
24 Benzoic acid	2750	1567	56.99	30-160
26 1,2,4-Trichloroben	500.0	591.9	118.37	30-160
28 Naphthalene	500.0	343.7	68.73	30-160
30 Hexachlorobutadien	500.0	266.6	53.31	30-160
32 2-Methylnaphthalen	500.0	326.1	65.22	30-160
39 Dimethylphthalate	500.0	385.7	77.15	30-160
40 Acenaphthylene	500.0	320.7	64.13	30-160
44 Acenaphthene	500.0	352.9	70.57	30-160
46 Dibenzofuran	500.0	350.7	70.14	30-160
49 Fluorene	500.0	352.8	70.55	30-160
50 Diethylphthalate	500.0	381.4	76.29	30-160
54 N-Nitrosodiphenyla	500.0	375.4	75.09	30-160
57 Hexachlorobenzene	500.0	334.8	66.95	30-160
58 Pentachlorophenol	1500	988.8	65.92	30-160
60 Phenanthrene	500.0	418.0	83.59	30-160
61 Anthracene	500.0	361.7	72.35	30-160
63 Di-n-butylphthalat	500.0	419.5	83.90	30-160
64 Fluoranthene	500.0	399.9	79.98	30-160
65 Pyrene	500.0	386.8	77.35	30-160
67 Butylbenzylphthala	500.0	429.3	85.86	30-160
68 Benzo(a)anthracene	500.0	380.5	76.10	30-160
71 Chrysene	500.0	382.4	76.48	30-160
72 bis(2-Ethylhexyl)p	500.0	400.2	80.04	30-160
73 Di-n-octylphthalat	500.0	427.4	85.49	30-160

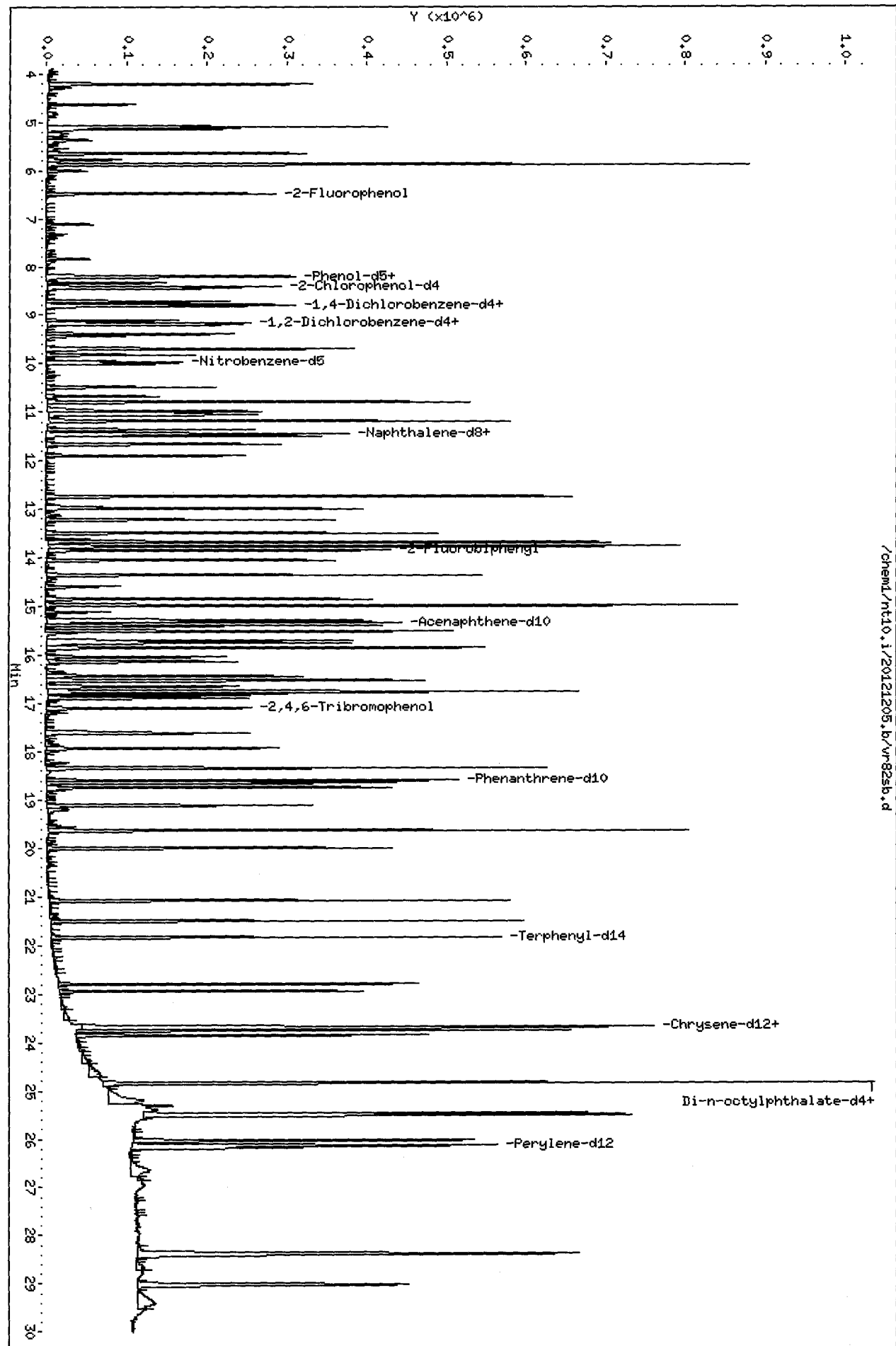
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
76 Benzo(a)pyrene	500.0	320.2	64.05	30-160
78 Indeno(1,2,3-cd)py	500.0	398.7	79.73	30-160
79 Dibenzo(a,h)anthra	500.0	421.2	84.24	30-160
80 Benzo(g,h,i)peryle	500.0	422.1	84.43	30-160
105 1-methylnaphthalen	500.0	331.4	66.28	30-160
187 Total Benzofluoran	1000	774.2	77.42	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	750.0	493.2	65.76	30-160
\$ 2 Phenol-d5	750.0	533.9	71.18	30-160
\$ 5 2-Chlorophenol-d4	750.0	512.8	68.38	30-160
\$ 10 1,2-Dichlorobenzen	500.0	321.4	64.27	30-160
\$ 18 Nitrobenzene-d5	500.0	302.7	60.55	30-160
\$ 36 2-Fluorobiphenyl	500.0	375.1	75.03	30-160
\$ 55 2,4,6-Tribromophen	750.0	589.6	78.62	30-160
\$ 66 Terphenyl-d14	500.0	407.2	81.44	30-160

Data File: /chem1/nt10.i/20121205.b/vr82sb.d
Date: 05-DEC-2012 13:23
Client ID: VR82LCSS1
Sample Info: VR82LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: VTS/YZ
Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82sb.d



CO-ELUTION SUMMARY FOR FILE - vr82sb.d

Lab ID: VR82LCSS1, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82a.d
 Lab Smp Id: VR82A Client Smp ID: SG-02-S-C-121108
 Inj Date : 05-DEC-2012 14:00
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82A
 Misc Info : 12-22479
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	38.10000	Weight of sample extracted (g)
M	73.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.513	6.474	(0.741)	145158	4.40847	428.5
\$ 2 Phenol-d5	99	8.213	8.205	(0.934)	204763	5.02561	488.5
3 Phenol	94	Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132	8.429	8.429	(0.959)	173352	4.91738	478.0
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	8.793	8.808	(1.000)	102932	4.00000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152	9.166	9.189	(1.042)	76303	2.96835	288.6
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	9.135	9.134	(1.039)	16972	0.83622	81.29
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					
15 4-Methylphenol	108	9.701	9.709	(1.103)	16594	0.75837	73.72
\$ 18 Nitrobenzene-d5	82	9.965	9.988	(0.871)	116551	2.87937	279.9
22 2,4-Dimethylphenol	107	Compound Not Detected.					

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
24 Benzoic acid	105	11.064	11.118	(0.967)	256230	9.92778	965.1 (MH)
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27 Naphthalene-d8	136	11.442	11.472	(1.000)	431981	4.00000	
28 Naphthalene	128	11.488	11.519	(1.004)	89712	0.85361	82.98
30 Hexachlorobutadiene	225	Compound Not Detected.					
32 2-Methylnaphthalene	142	12.989	13.027	(1.135)	24946	0.31859	30.97
\$ 36 2-Fluorobiphenyl	172	13.855	13.894	(0.904)	317488	3.44846	335.2
39 Dimethylphthalate	163	14.862	14.892	(0.969)	23994	0.28552	27.76
40 Acenaphthylene	152	14.985	15.024	(0.977)	28737	0.23374	22.72 (M)
* 42 Acenaphthene-d10	164	15.333	15.372	(1.000)	260122	4.00000	
44 Acenaphthene	153	15.403	15.441	(1.005)	227804	3.24158	315.1
46 Dibenzofuran	168	15.759	15.797	(1.028)	32435	0.31099	30.23
50 Diethylphthalate	149	Compound Not Detected.					
49 Fluorene	166	16.532	16.570	(1.078)	87186	1.00763	97.95
54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
\$ 55 2,4,6-Tribromophenol	330	17.118	17.156	(1.116)	88339	5.76527	560.4
57 Hexachlorobenzene	284	Compound Not Detected.					
58 Pentachlorophenol	266	18.362	18.400	(0.986)	4793	0.24620	23.93
* 59 Phenanthrene-d10	188	18.617	18.656	(1.000)	424513	4.00000	
60 Phenanthrene	178	18.664	18.702	(1.002)	185875	1.76842	171.9
61 Anthracene	178	18.764	18.803	(1.008)	76616	0.67815	65.92
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	21.124	21.139	(1.135)	654449	4.93983	480.2
65 Pyrene	202	21.534	21.565	(0.907)	840982	6.04617	587.7
\$ 66 Terphenyl-d14	244	21.867	21.898	(0.921)	363063	3.90491	379.6
67 Butylbenzylphthalate	149	22.827	22.858	(0.961)	18613	0.32942	32.02
68 Benzo(a)anthracene	228	23.717	23.748	(0.999)	294590	2.18305	212.2
* 69 Chrysene-d12	240	23.748	23.771	(1.000)	474788	4.00000	
71 Chrysene	228	23.787	23.818	(1.002)	545606	4.55115	442.4
72 bis(2-Ethylhexyl)phthalate	149	23.888	23.918	(0.960)	602763	6.94991	675.6
* 134 Di-n-octylphthalate-d4	153	24.871	24.902	(1.000)	628575	4.00000	
73 Di-n-octylphthalate	149	24.879	24.909	(1.000)	27713	0.19449	18.91
76 Benzo(a)pyrene	252	26.087	26.102	(0.996)	251968	1.95399	189.9
* 77 Perylene-d12	264	26.187	26.210	(1.000)	451840	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.466	28.489	(1.087)	206914	1.41584	137.6
79 Dibenzo(a,h)anthracene	278	28.489	28.512	(1.088)	79529	0.68572	66.66 (M)
80 Benzo(g,h,i)perylene	276	29.134	29.149	(1.113)	213738	1.70890	166.1
105 1-methylnaphthalene	142	13.229	13.259	(1.156)	15625	0.21742	21.14
187 Total Benzofluoranthenes	252	25.521	25.575	(0.975)	720132	5.41588	526.5
98 Retene	219	22.153	22.215	(0.933)	33549		
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

(VI)
 12.6.12

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82a.d
 Lab Smp Id: VR82A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22479

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-02-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	102932	26.19
27 Naphthalene-d8	299399	149700	598798	431981	44.28
42 Acenaphthene-d10	178564	89282	357128	260122	45.67
59 Phenanthrene-d10	305410	152705	610820	424513	39.00
69 Chrysene-d12	323853	161926	647706	474788	46.61
134 Di-n-octylphthala	427845	213922	855690	628575	46.92
77 Perylene-d12	305316	152658	610632	451840	47.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.17
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.25
59 Phenanthrene-d10	18.66	18.16	19.16	18.62	-0.21
69 Chrysene-d12	23.77	23.27	24.27	23.75	-0.10
134 Di-n-octylphthala	24.90	24.40	25.40	24.87	-0.12
77 Perylene-d12	26.21	25.71	26.71	26.19	-0.09

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.

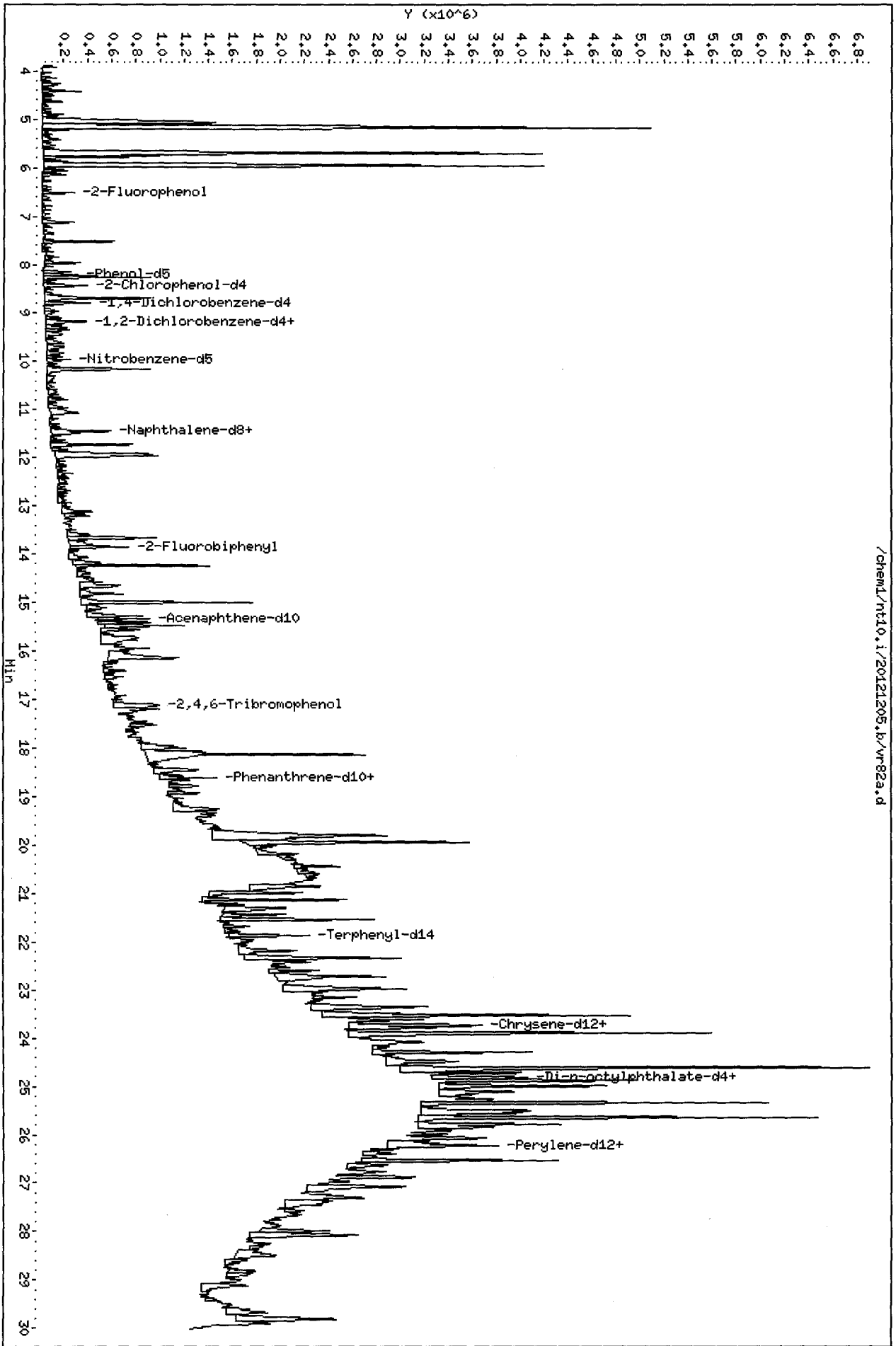
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.
Sample Matrix: SOLID
Lab Smp Id: VR82A
Level: LOW
Data Type: MS DATA
SpikeList File: SHORTPSDDA.spk
Sublist File: SHORTPSDDA.sub
Method File: /chem1/nt10.i/20121205.b/ABN.m
Misc Info: 12-22479

Client SDG: VR82
Fraction: SV
Client Smp ID: SG-02-S-C-121108
Operator: VTS/YZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	729.1	428.5	58.78	30-160
\$ 2 Phenol-d5	729.1	488.5	67.01	30-160
\$ 5 2-Chlorophenol-d4	729.1	478.0	65.57	30-160
\$ 10 1,2-Dichlorobenzen	486.1	288.6	59.37	30-160
\$ 18 Nitrobenzene-d5	486.1	279.9	57.59	30-160
\$ 36 2-Fluorobiphenyl	486.1	335.2	68.97	30-160
\$ 55 2,4,6-Tribromophen	729.1	560.4	76.87	30-160
\$ 66 Terphenyl-d14	486.1	379.6	78.10	30-160



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

Operator: VTS/YZ

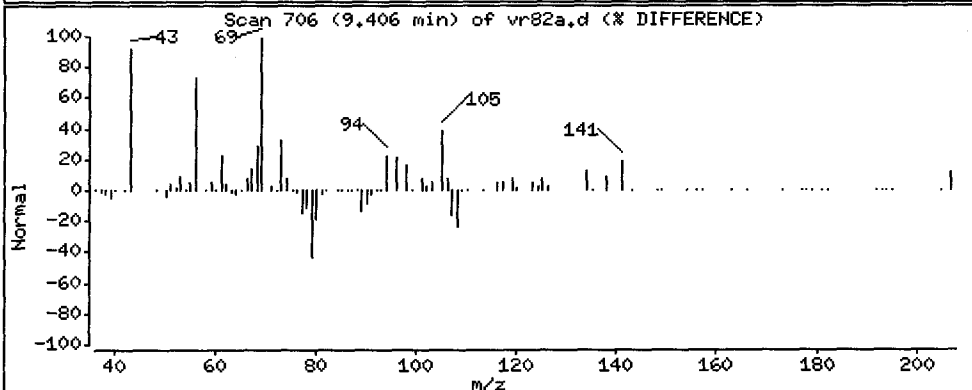
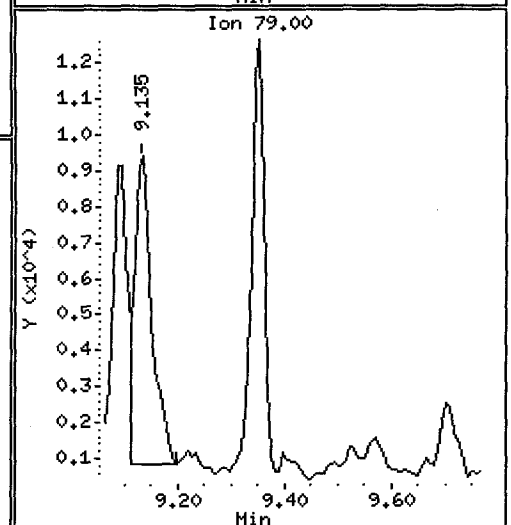
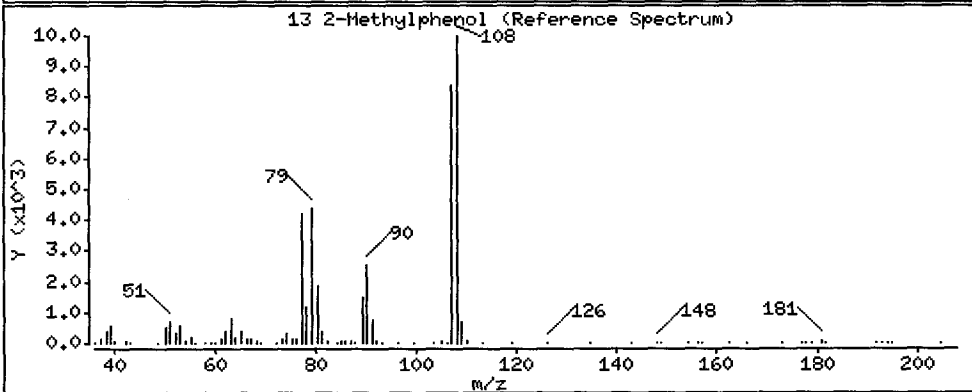
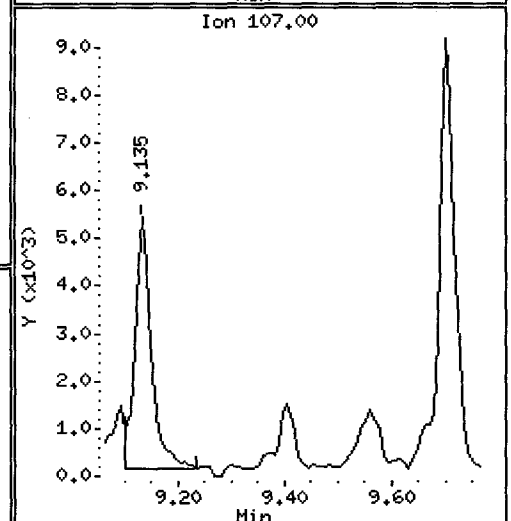
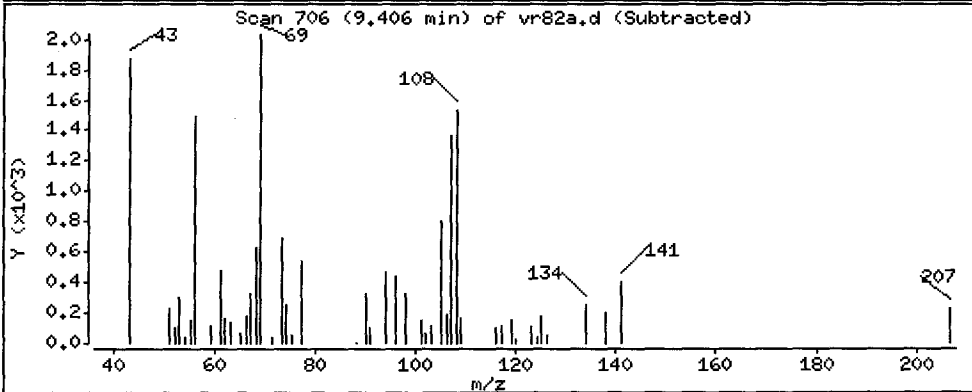
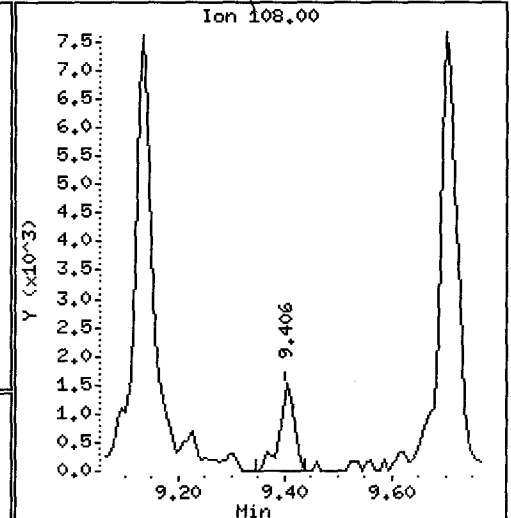
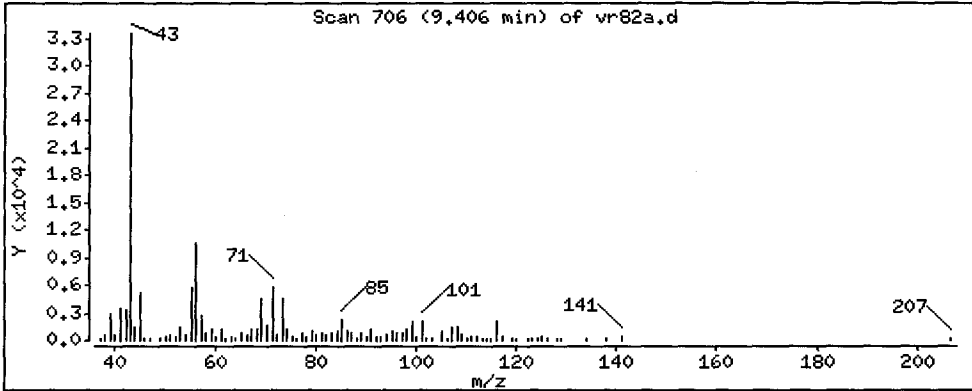
Column phase: ZB-5msi

Column diameter: 0.25

Handwritten: LMC
12/5/12

13 2-Methylphenol

Concentration: 7.572 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

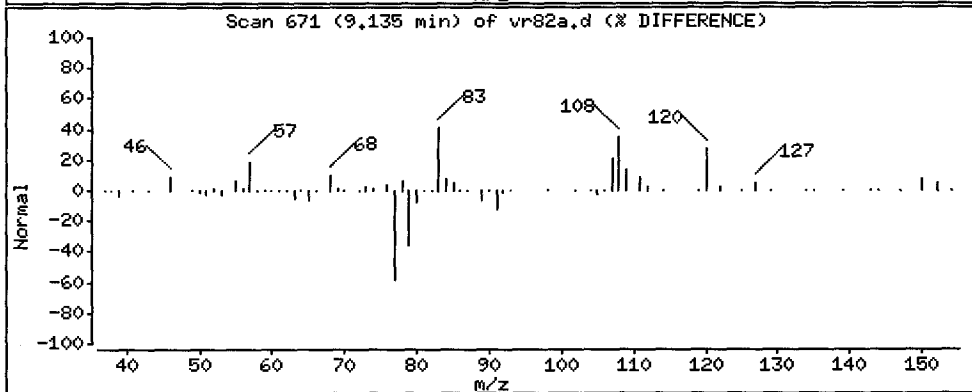
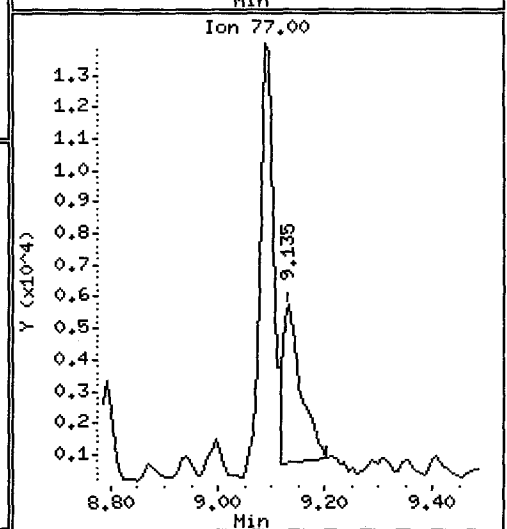
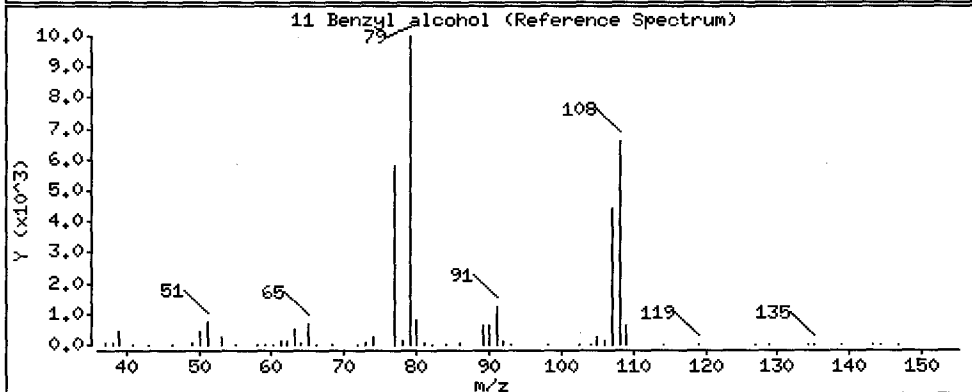
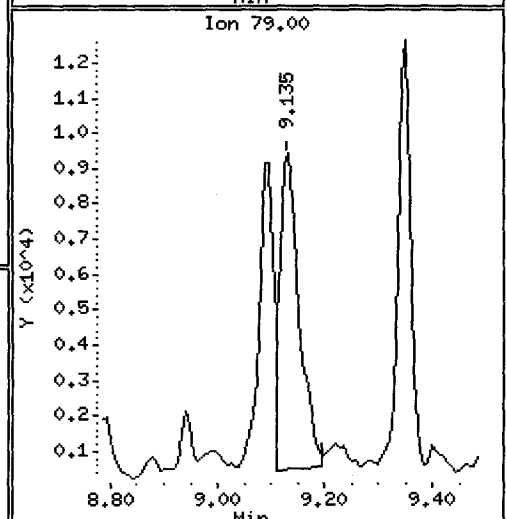
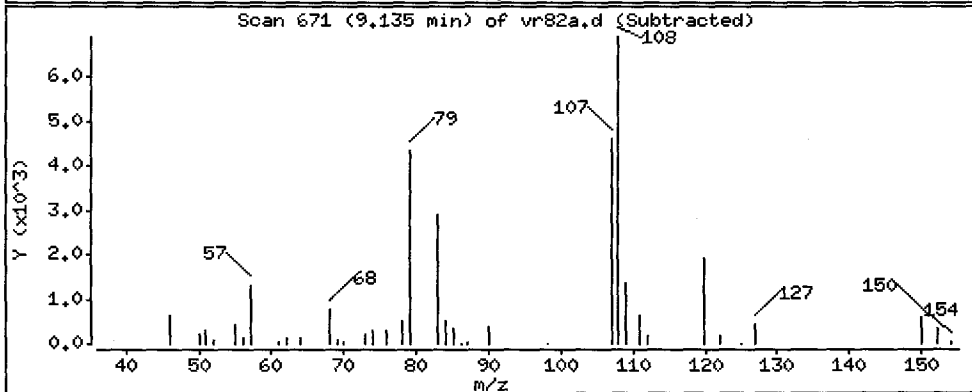
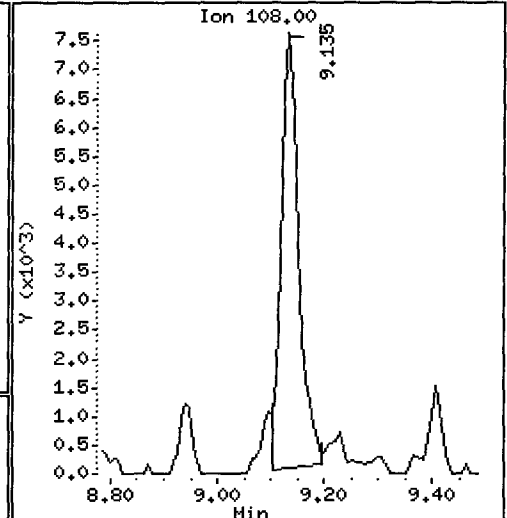
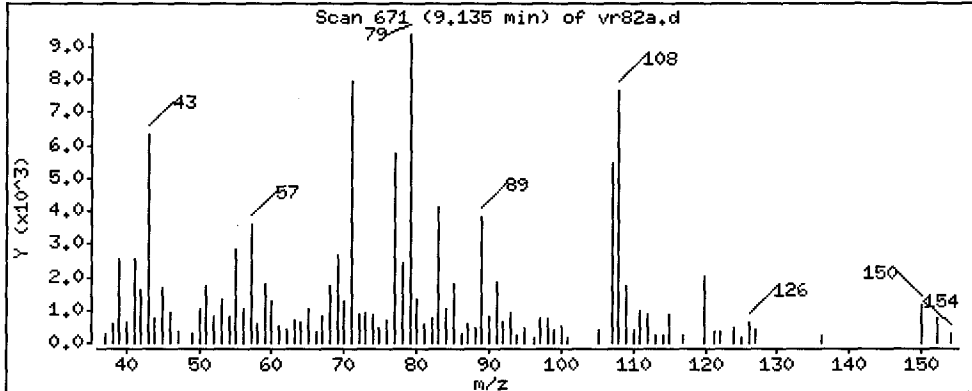
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 81.29 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

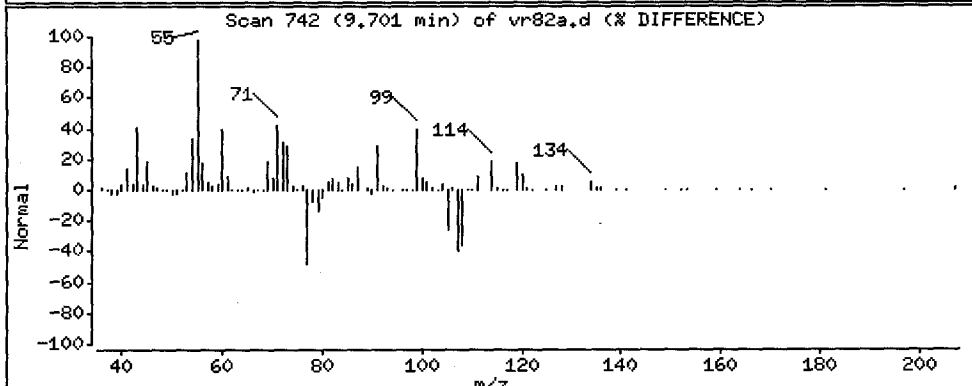
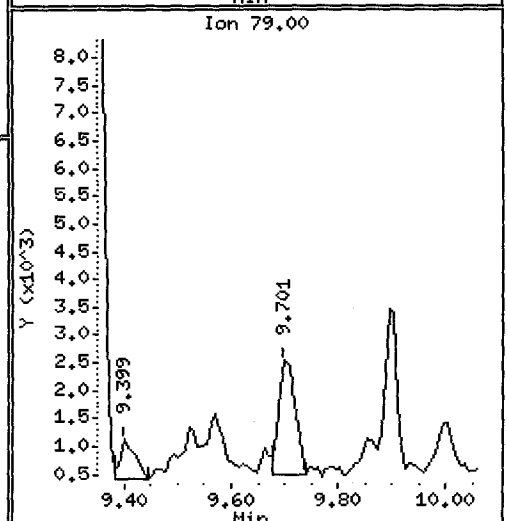
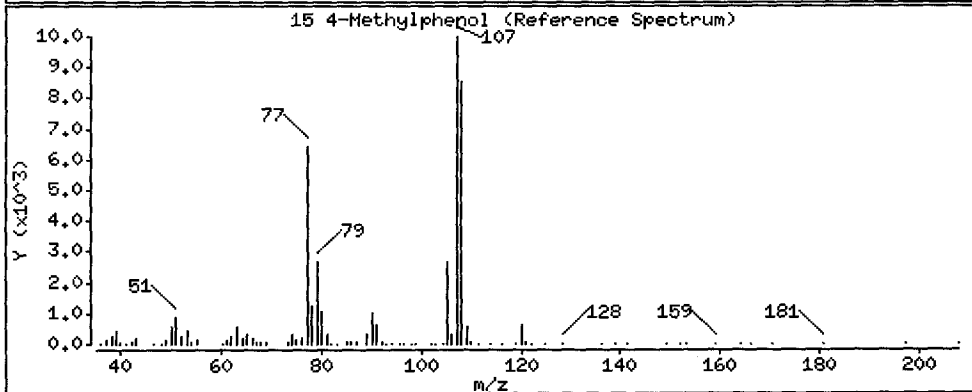
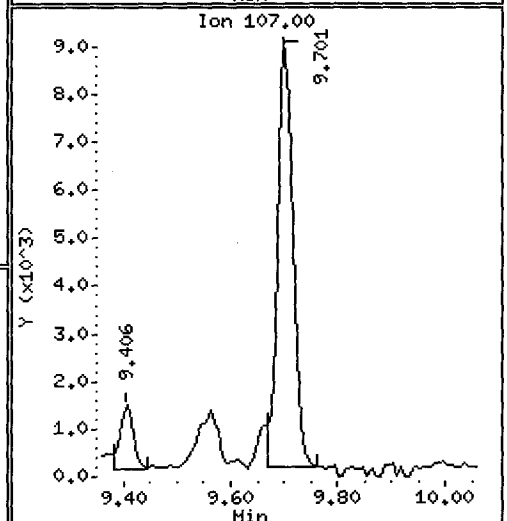
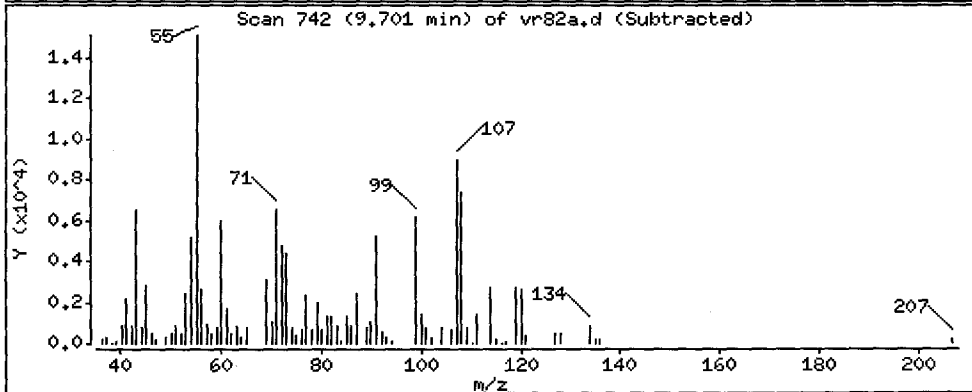
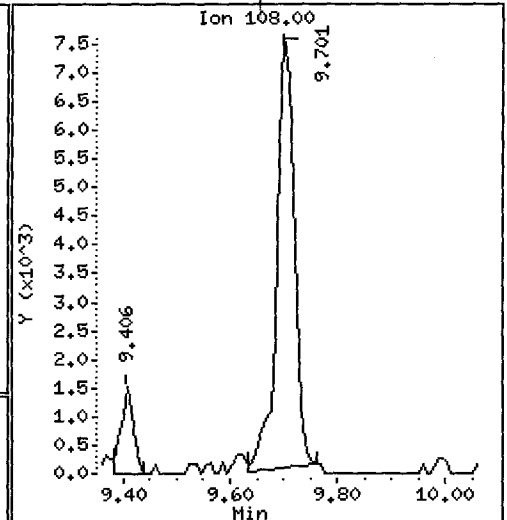
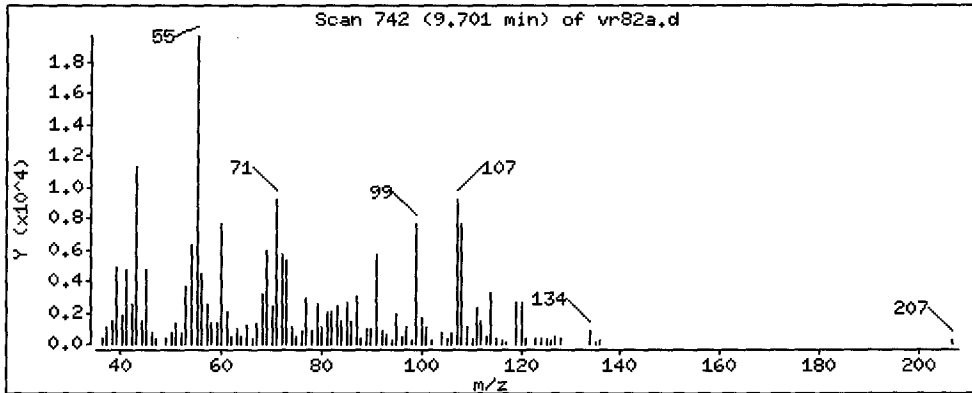
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 73.72 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

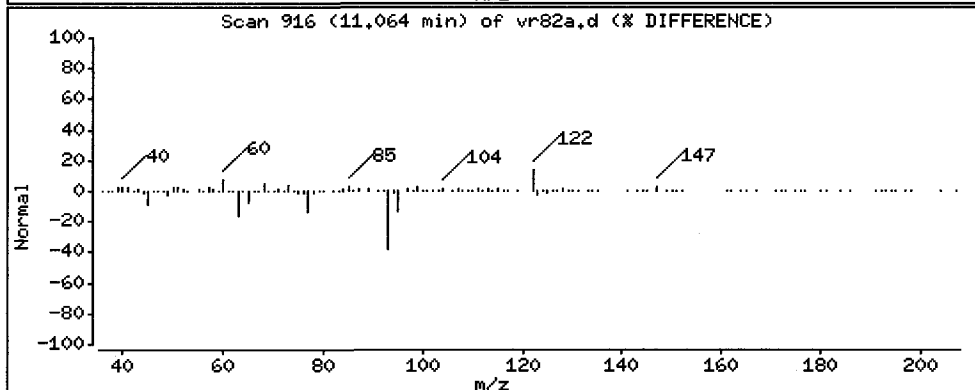
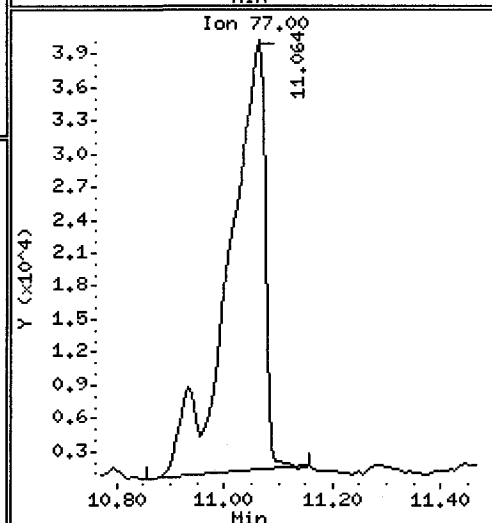
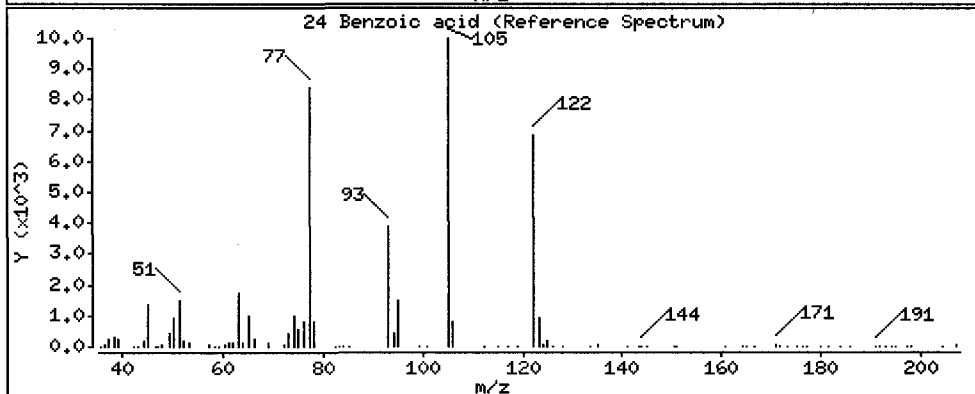
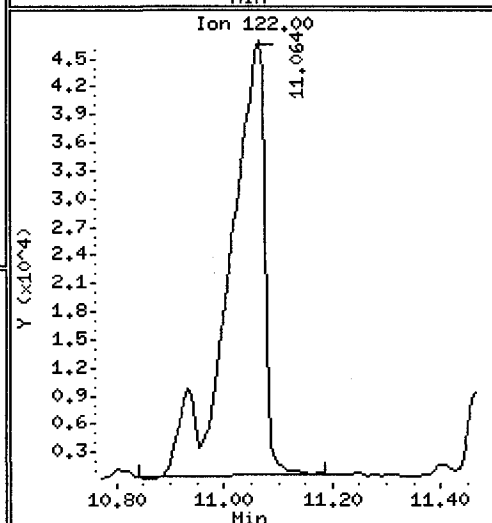
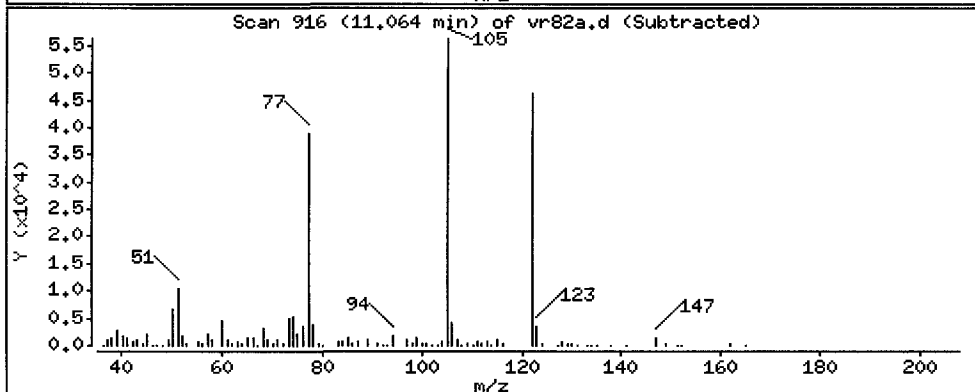
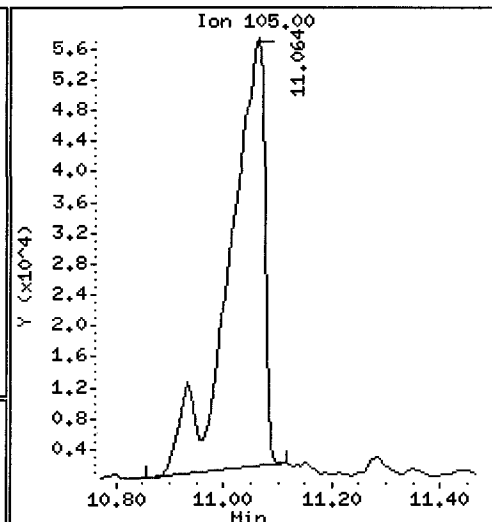
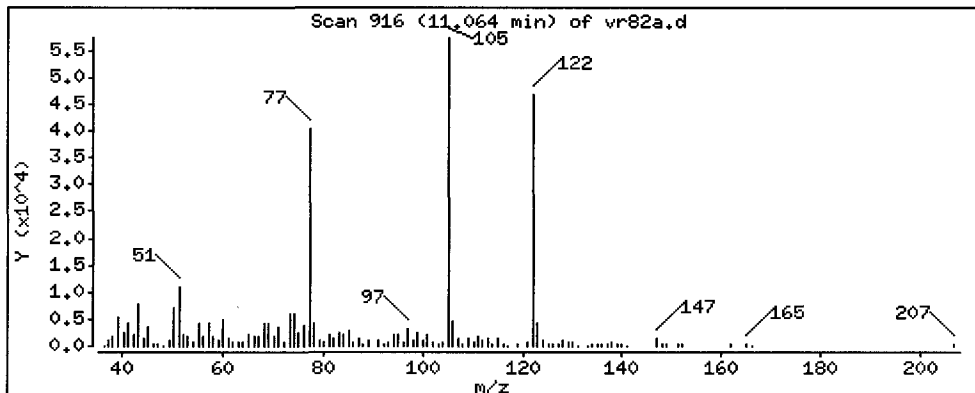
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 965.1 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

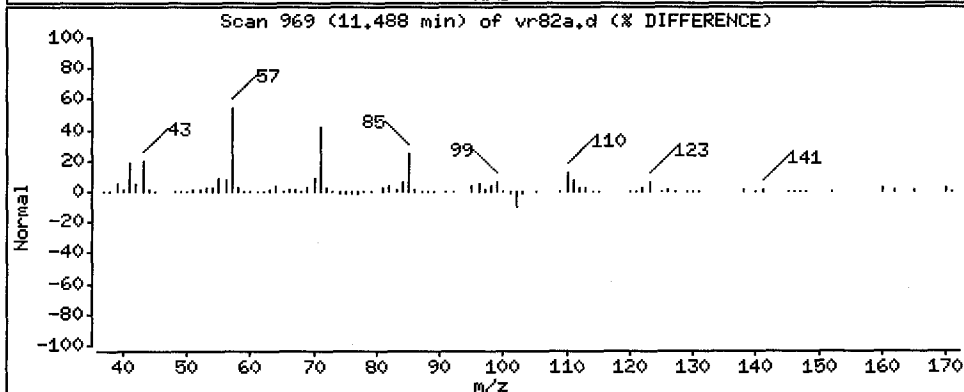
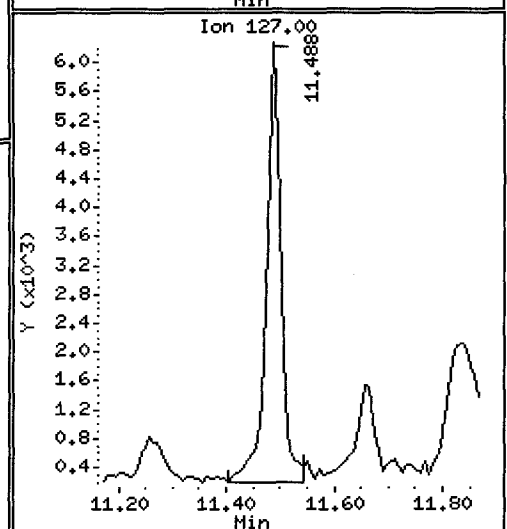
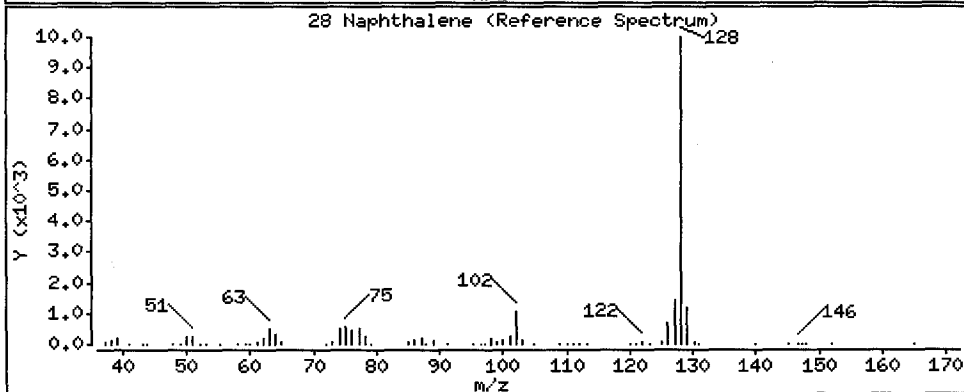
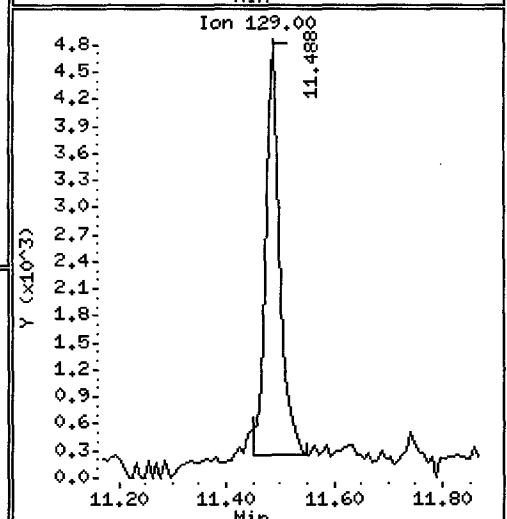
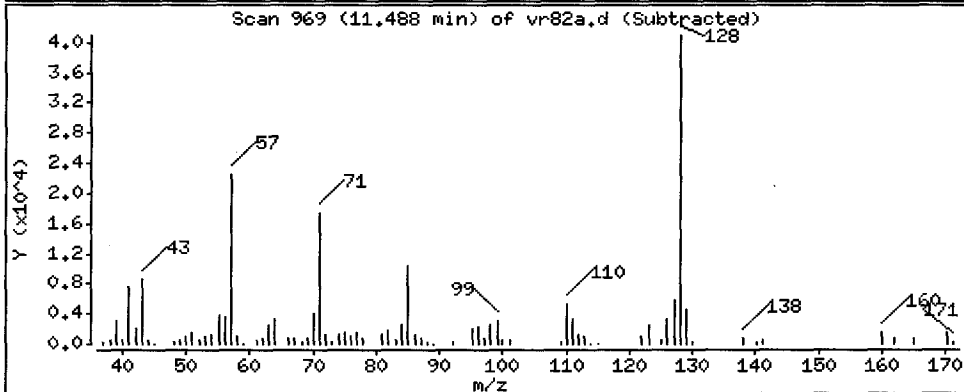
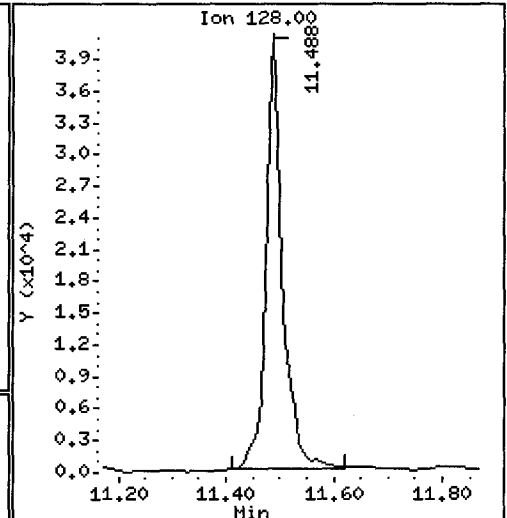
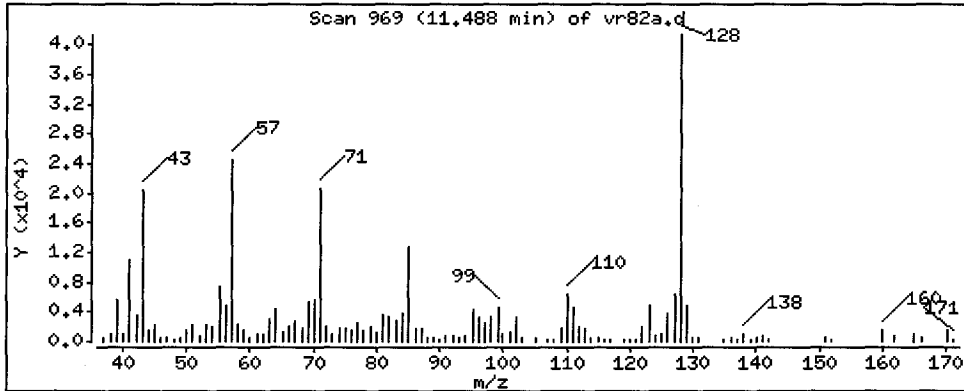
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 82.98 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

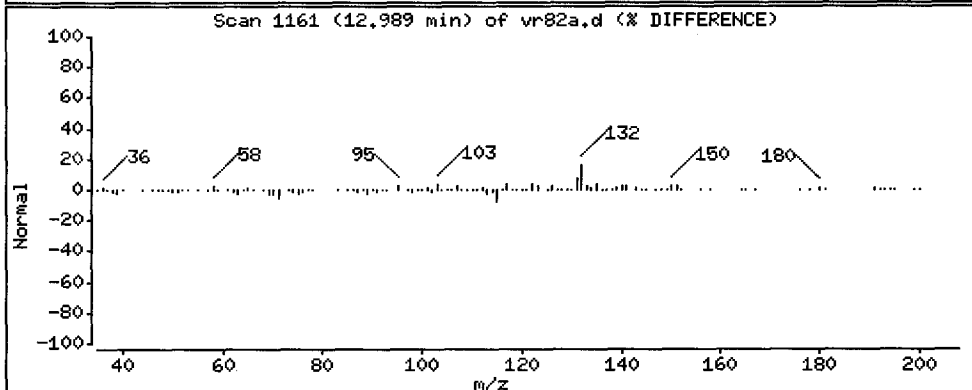
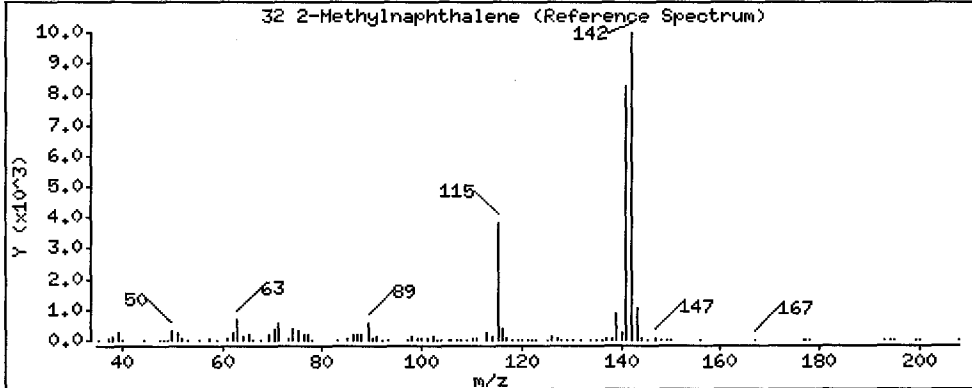
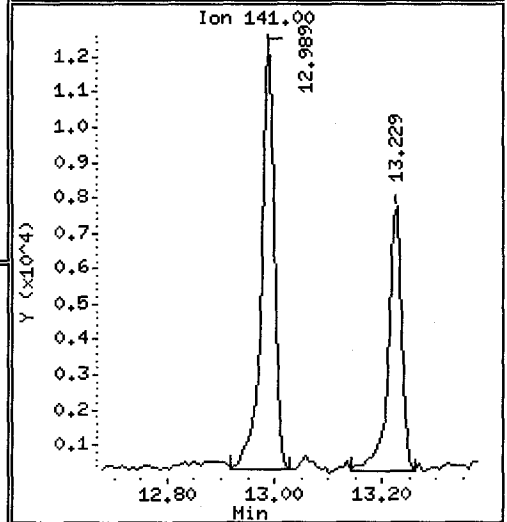
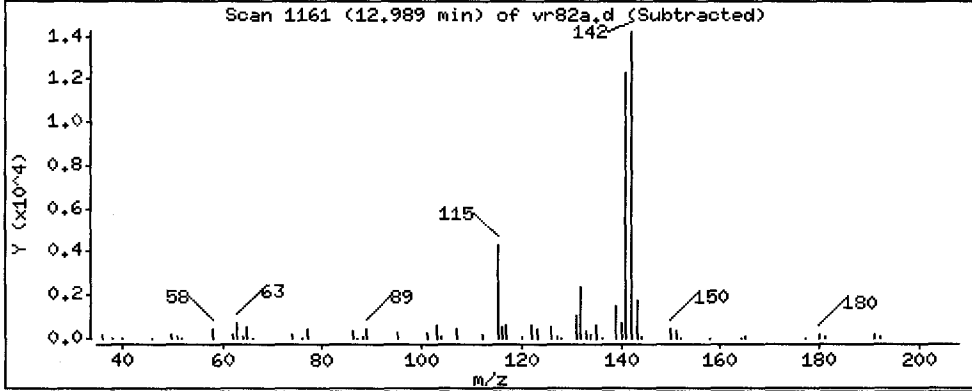
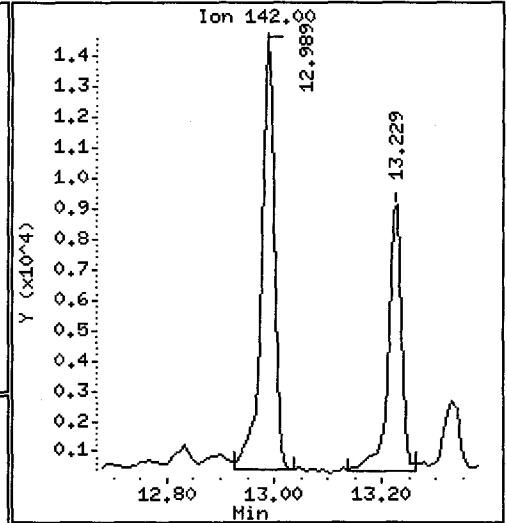
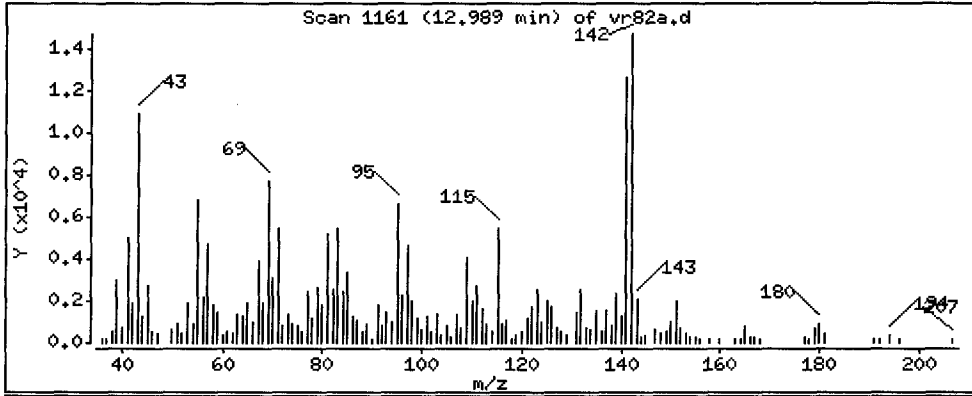
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 30.97 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

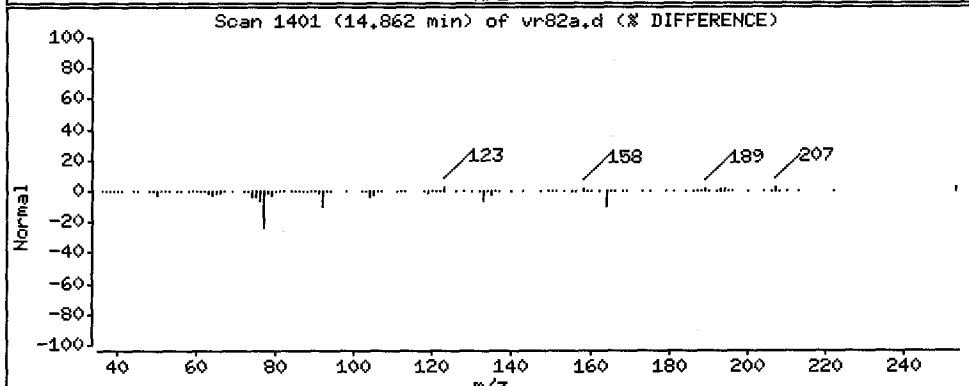
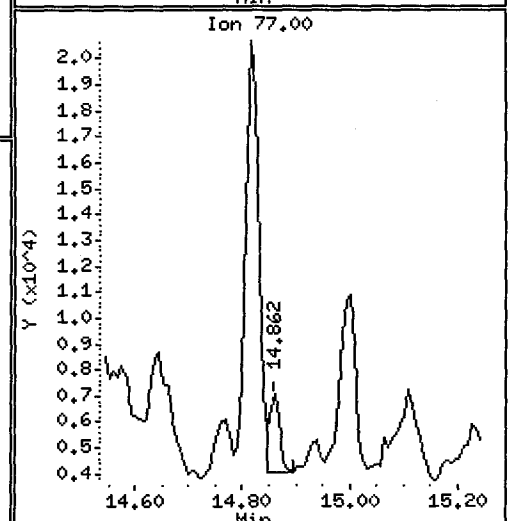
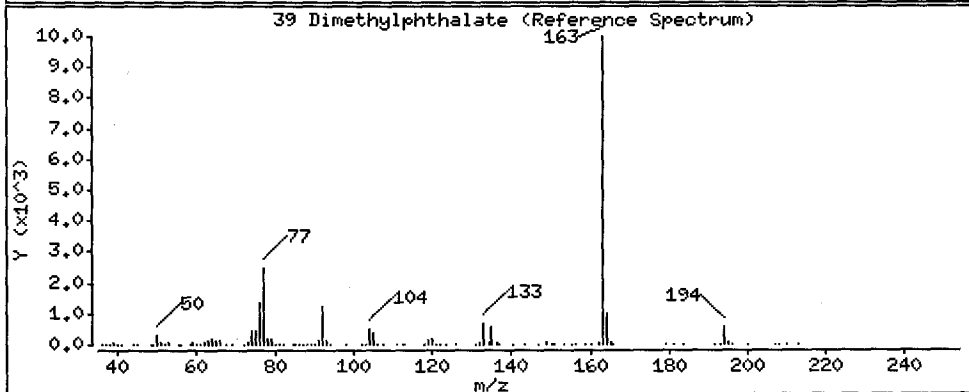
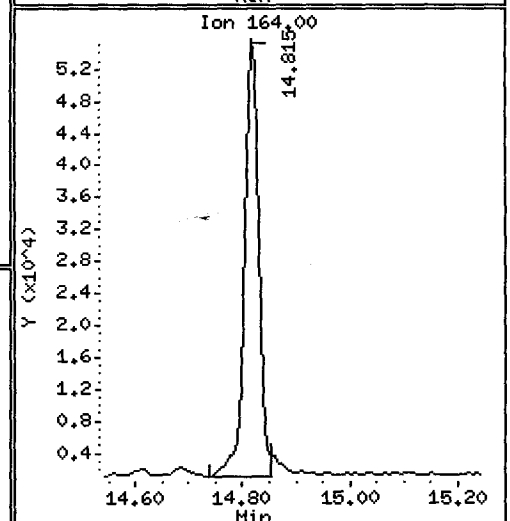
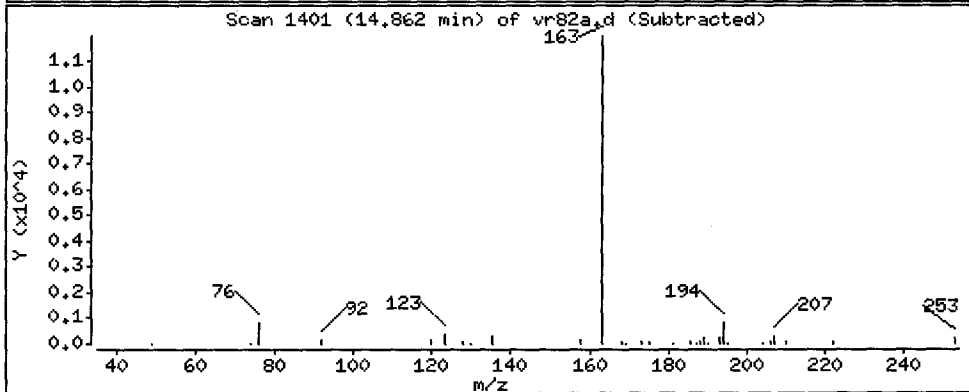
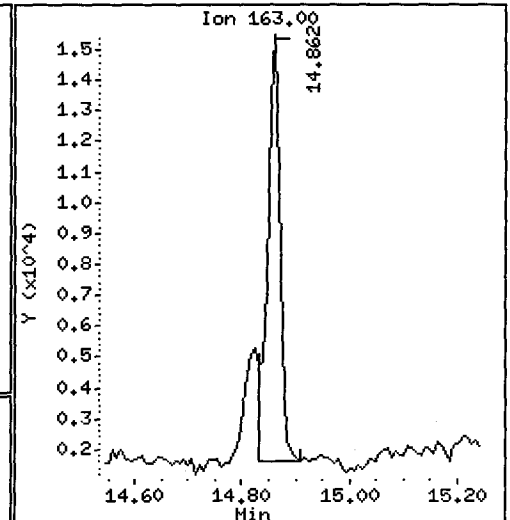
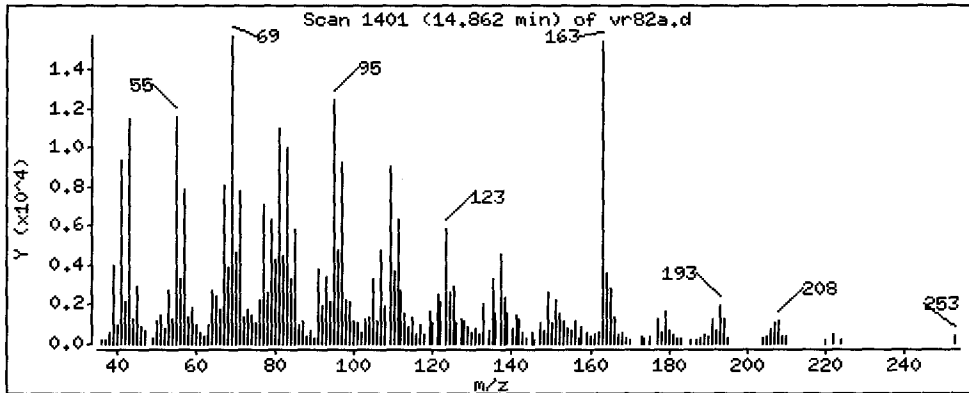
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 27.76 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

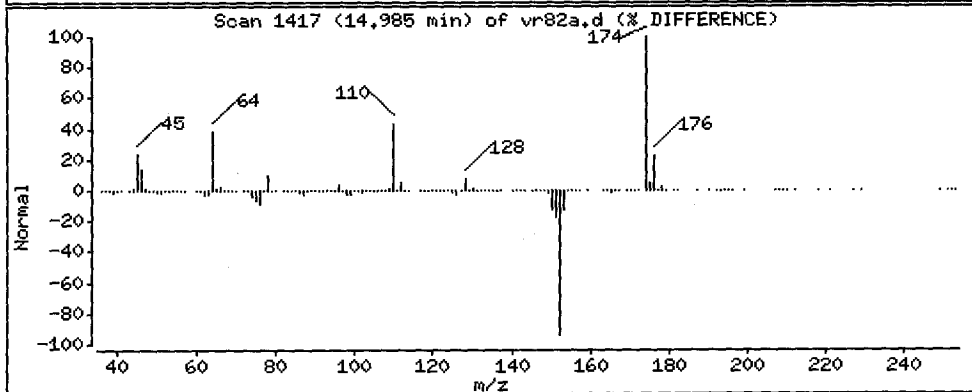
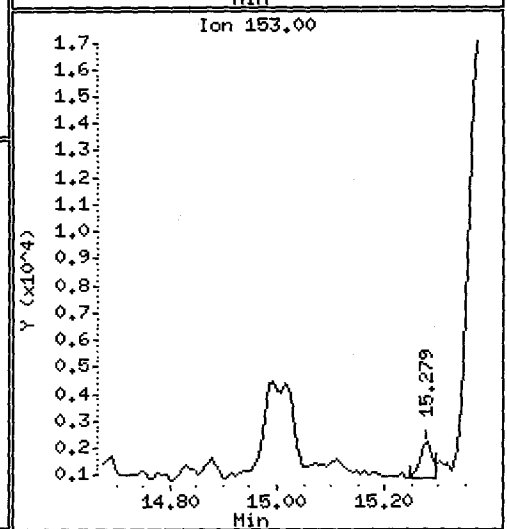
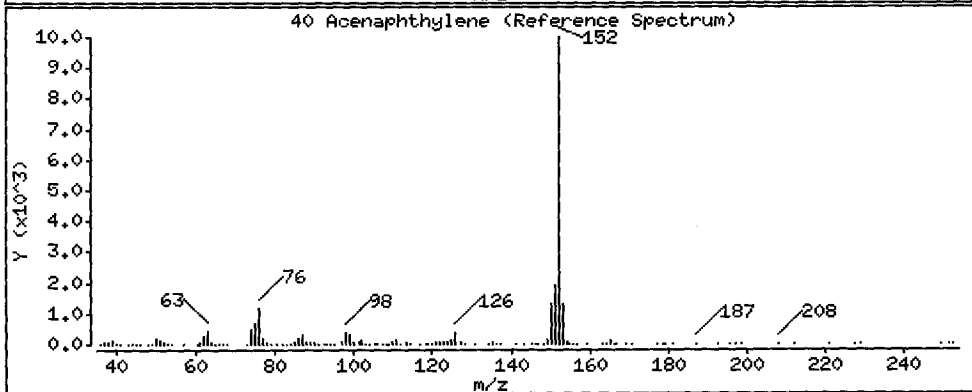
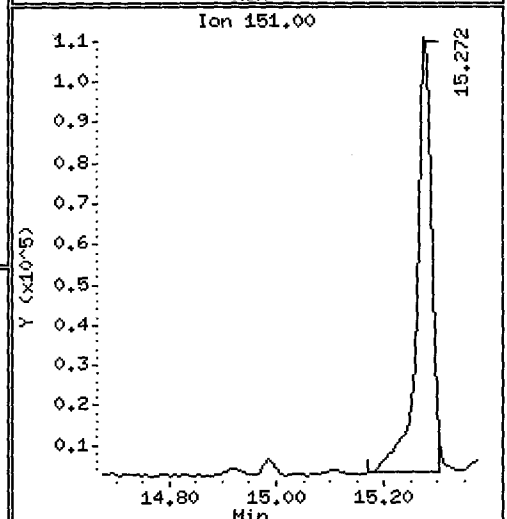
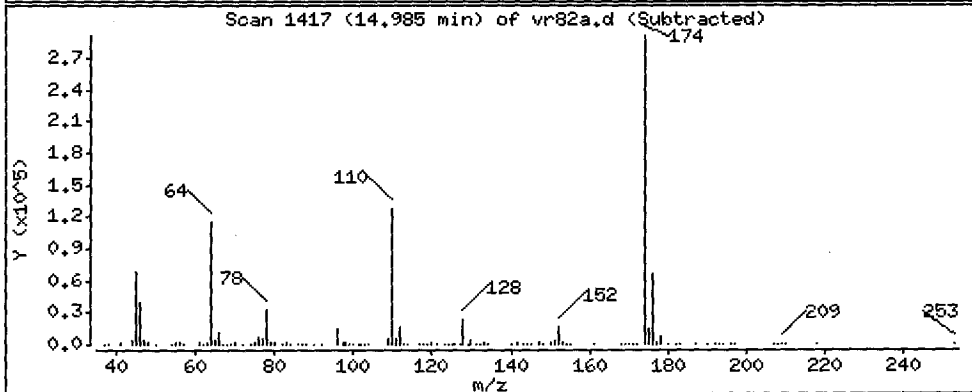
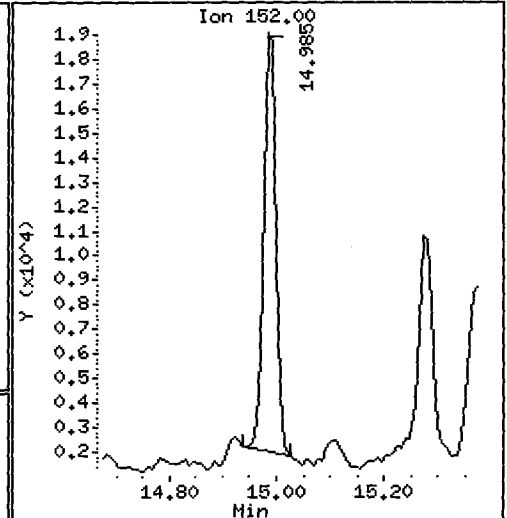
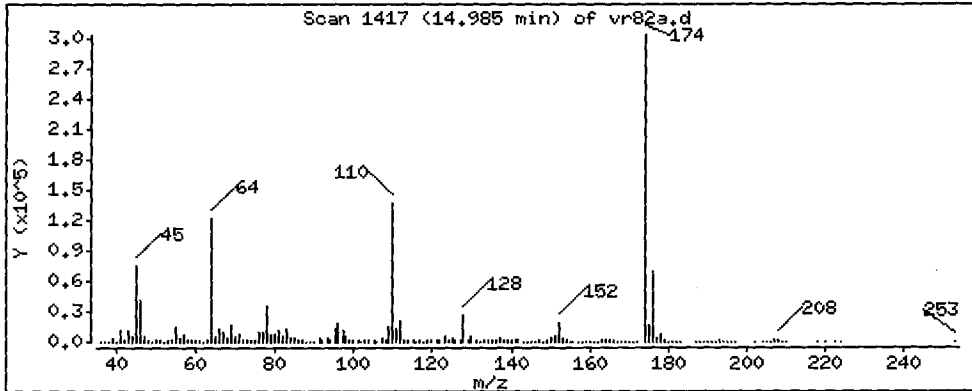
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 22.72 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

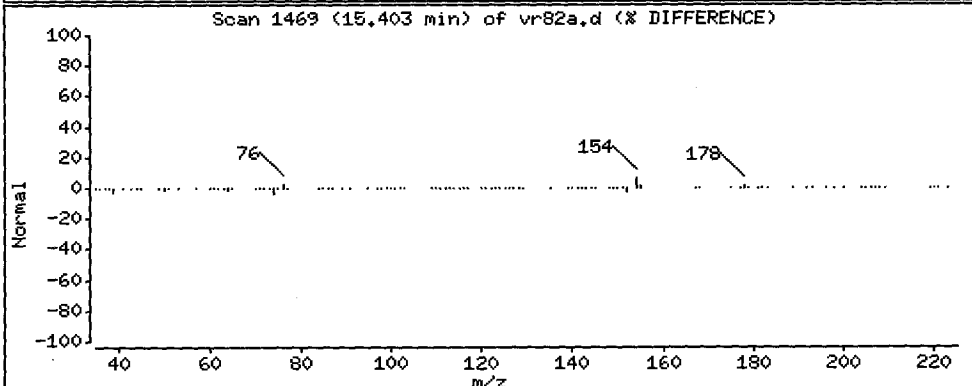
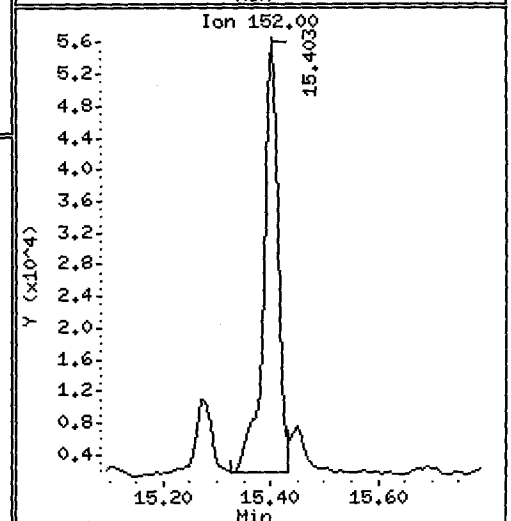
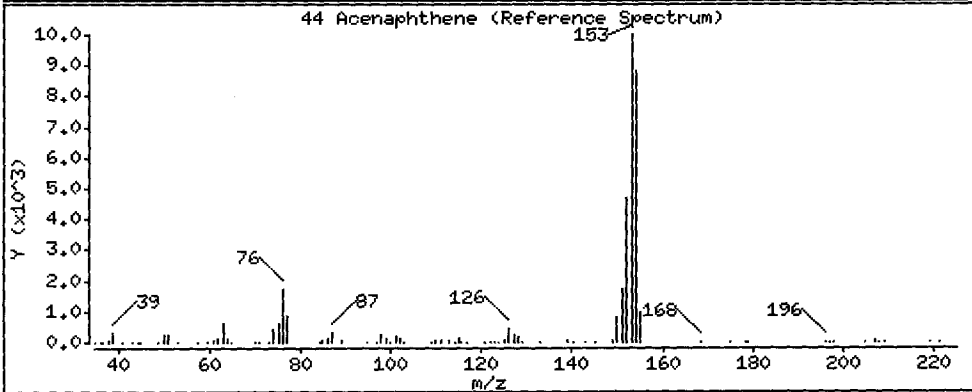
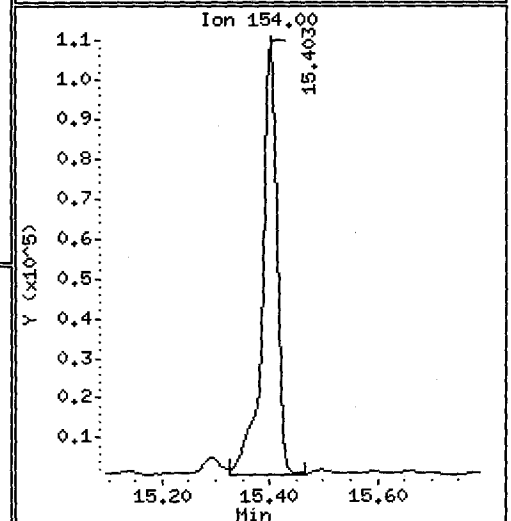
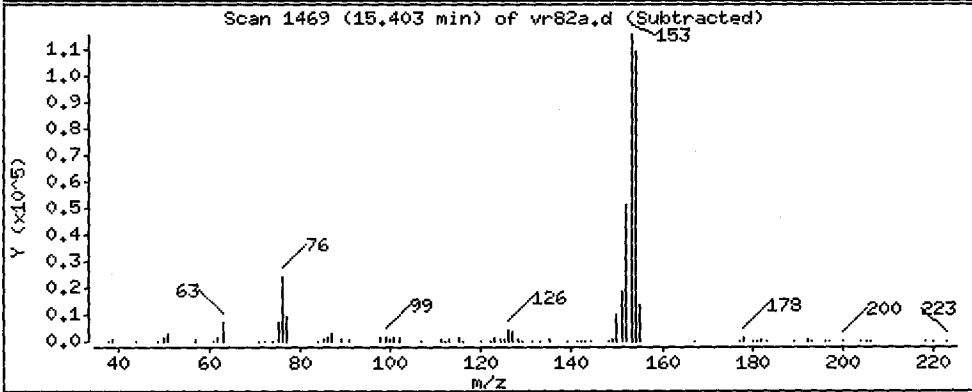
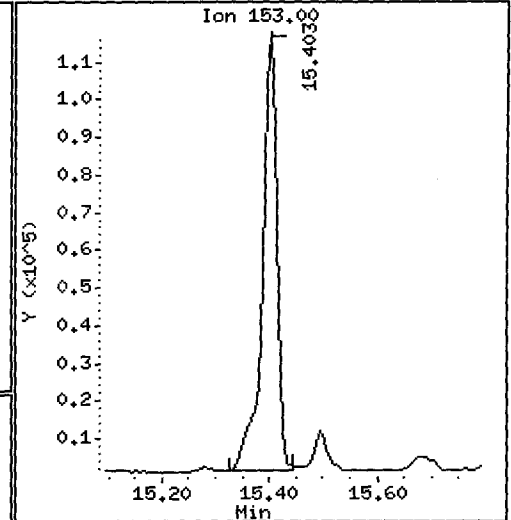
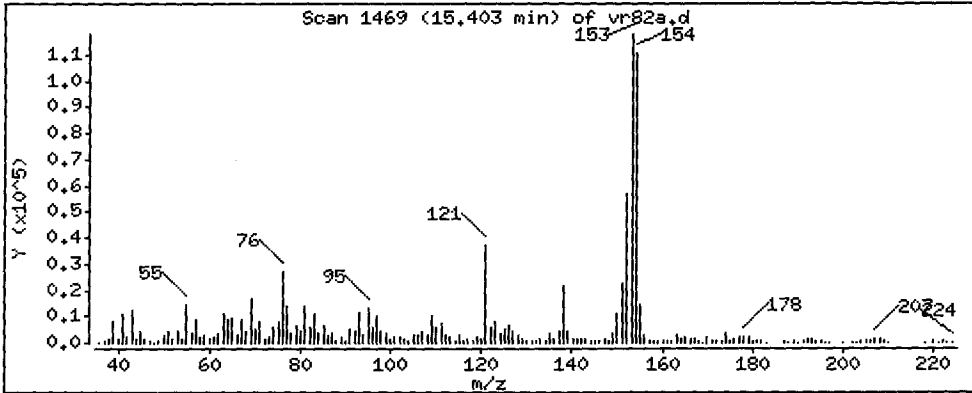
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 315.1 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

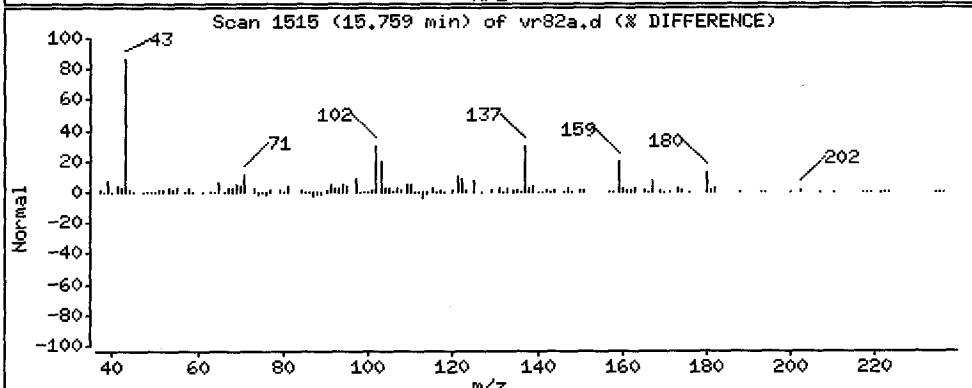
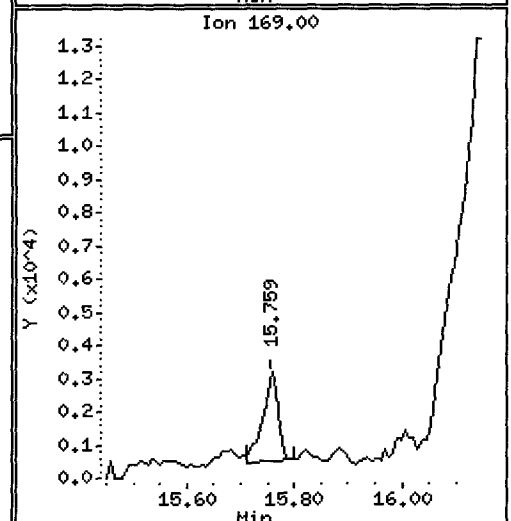
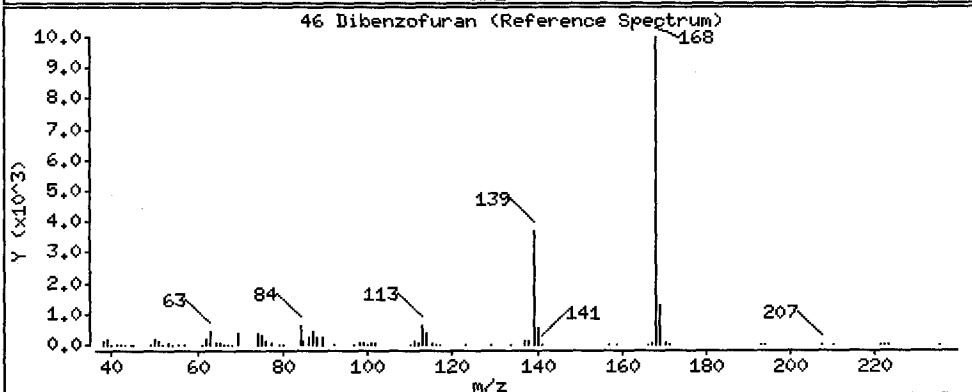
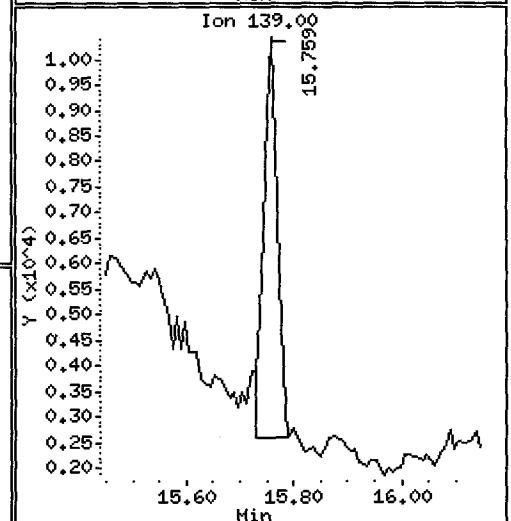
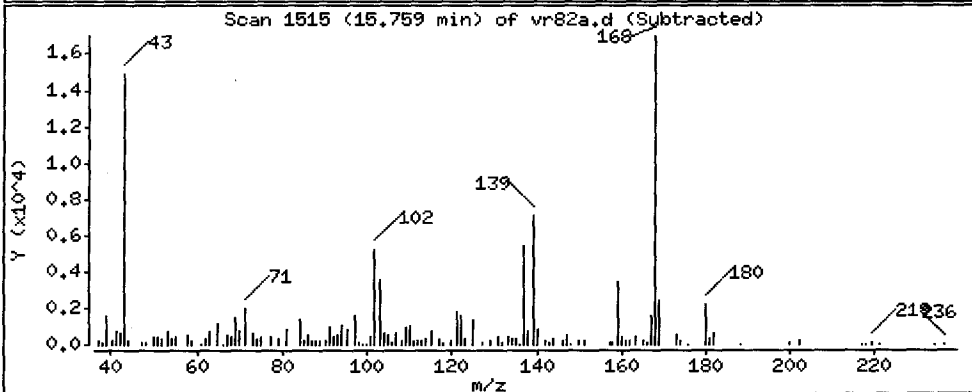
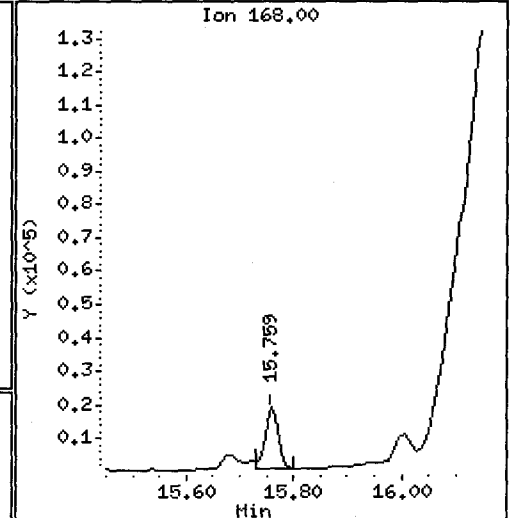
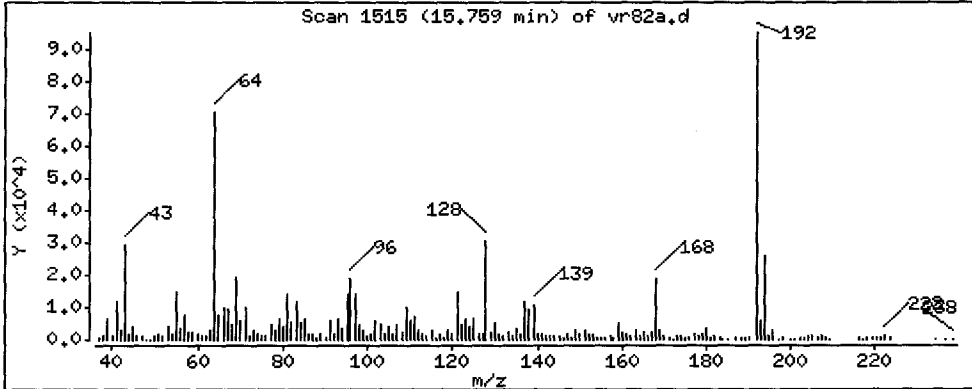
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 30.23 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

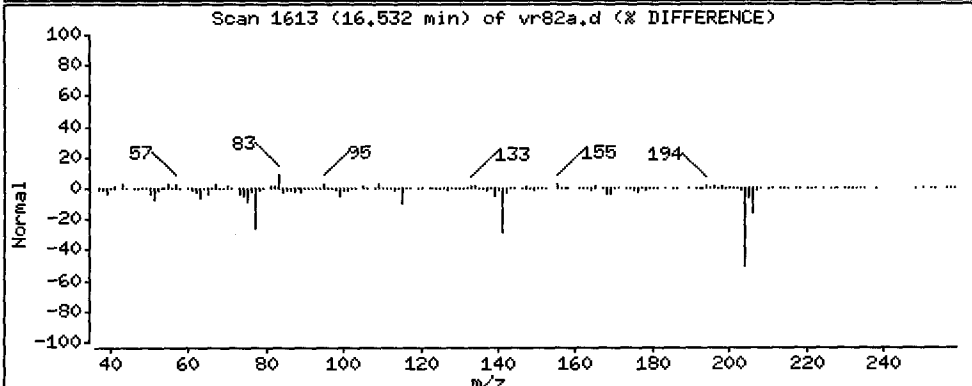
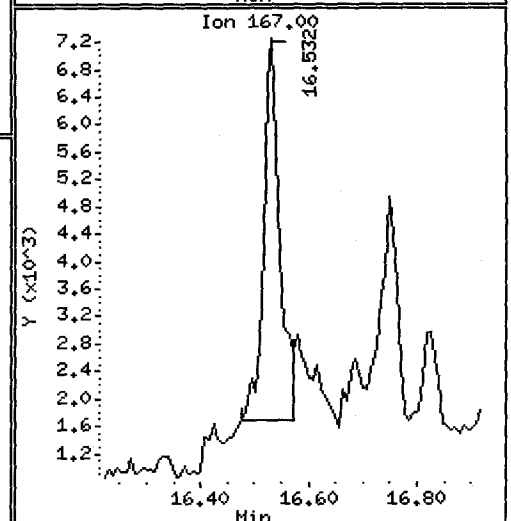
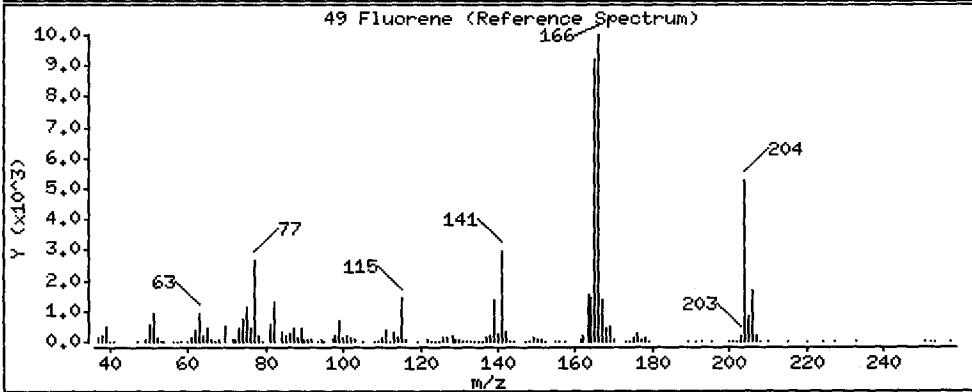
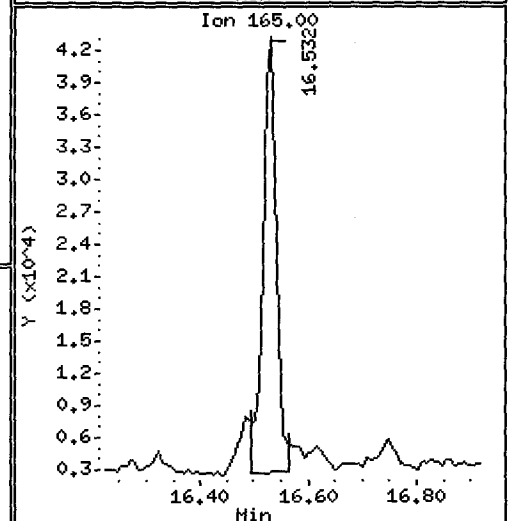
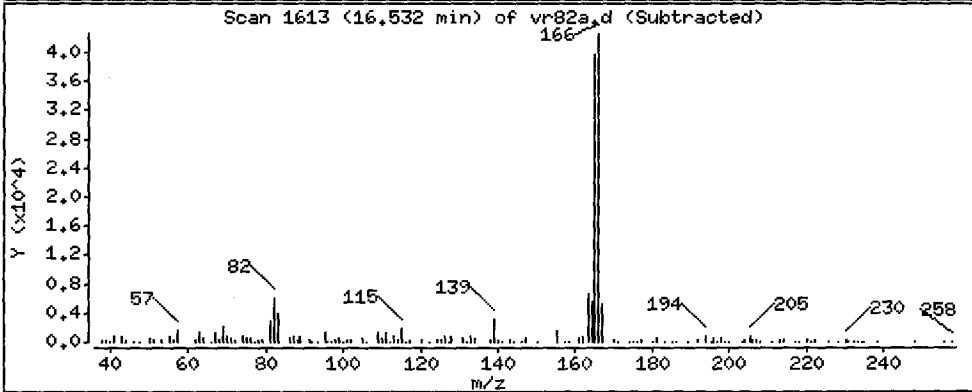
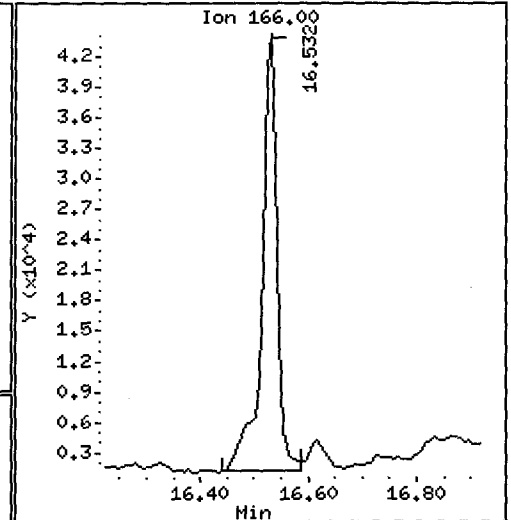
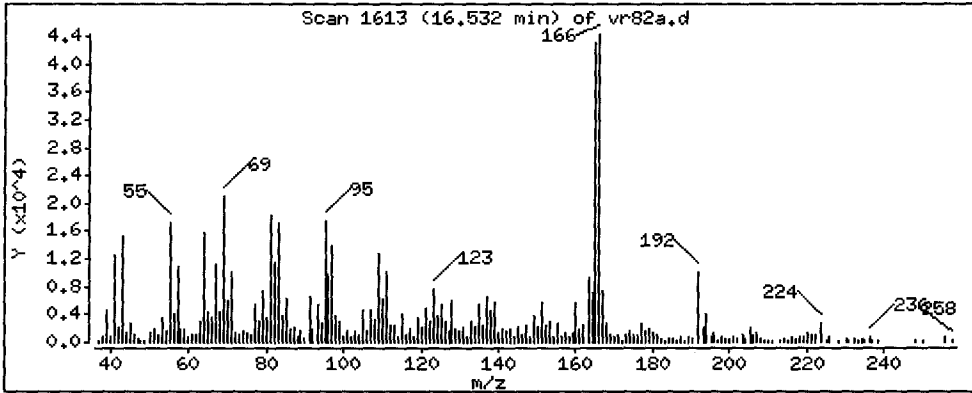
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 97.95 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

Operator: VTS/YZ

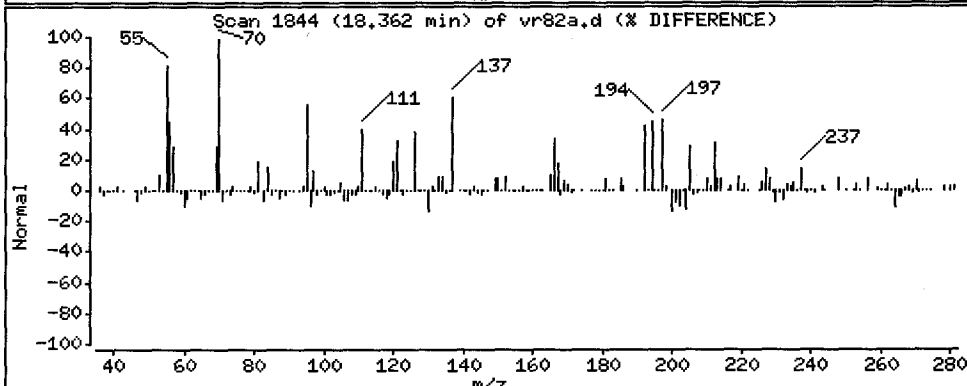
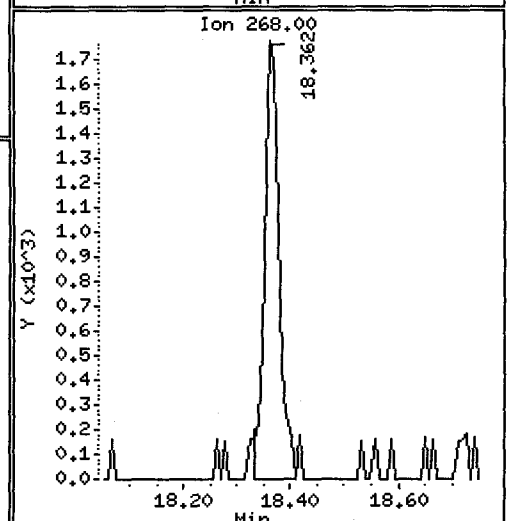
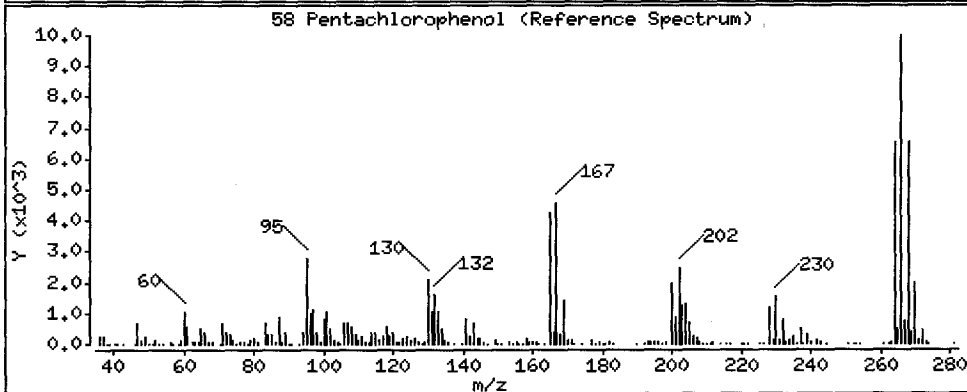
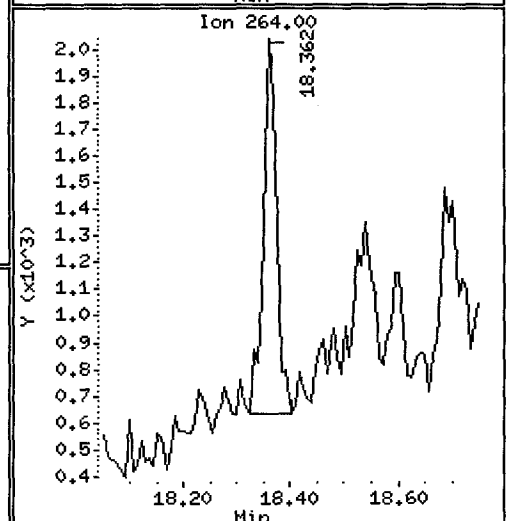
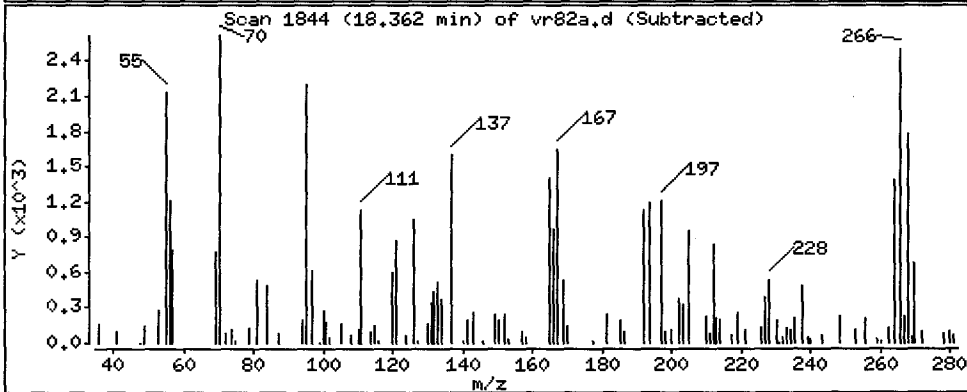
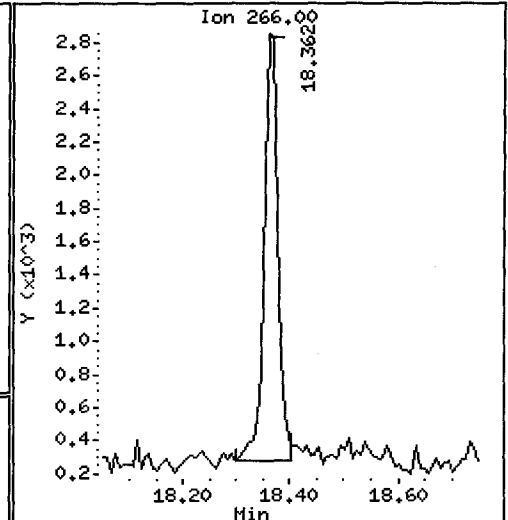
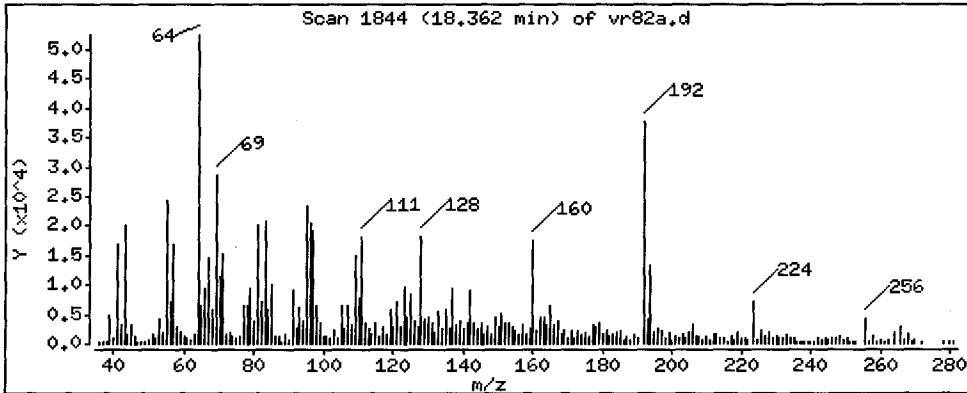
Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 23.93 ug/kg

mm



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

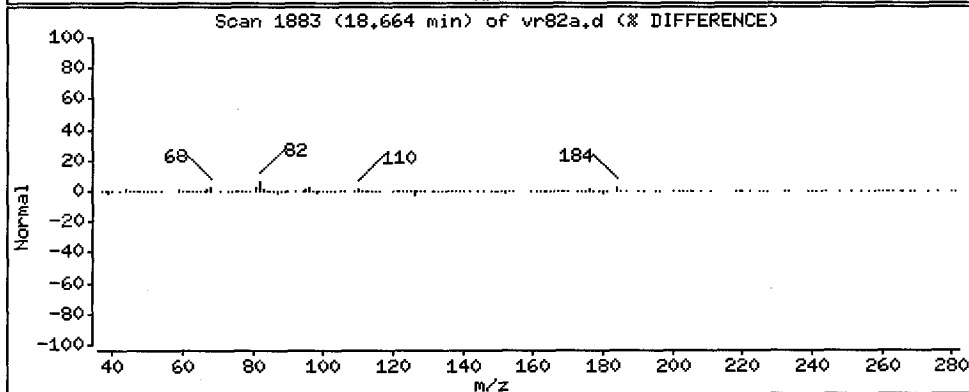
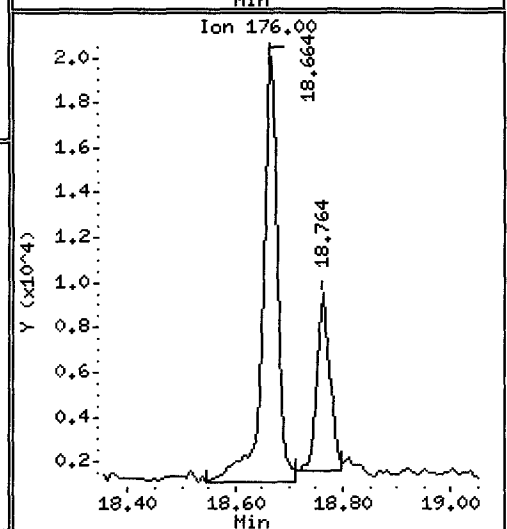
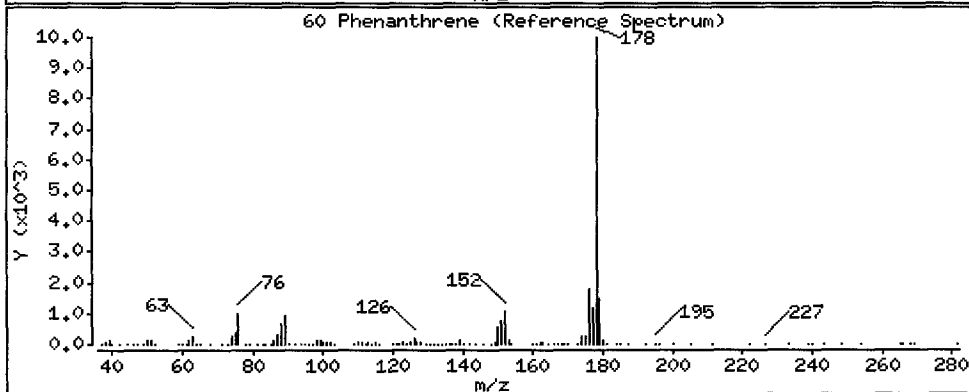
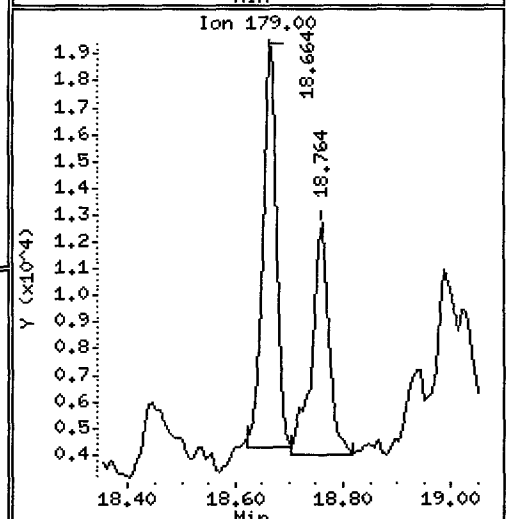
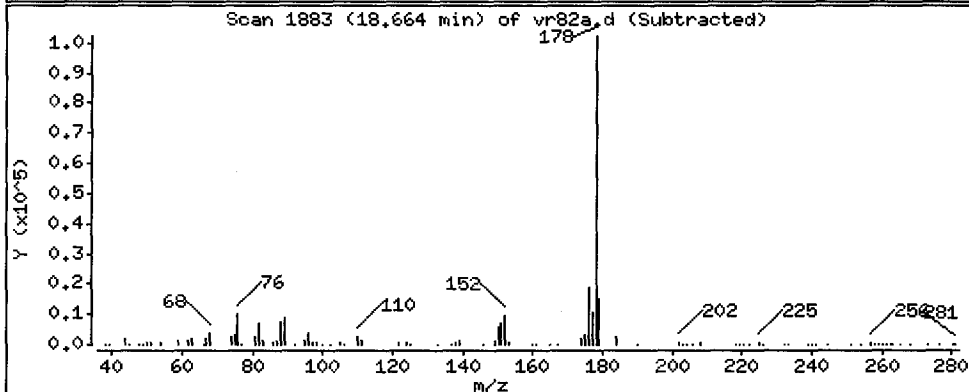
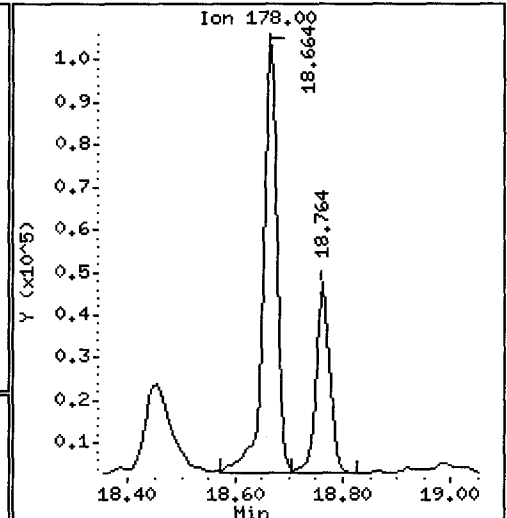
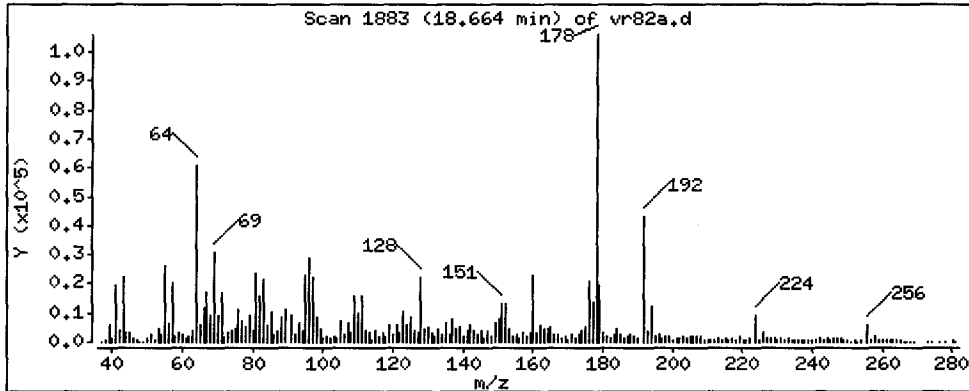
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 171.9 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

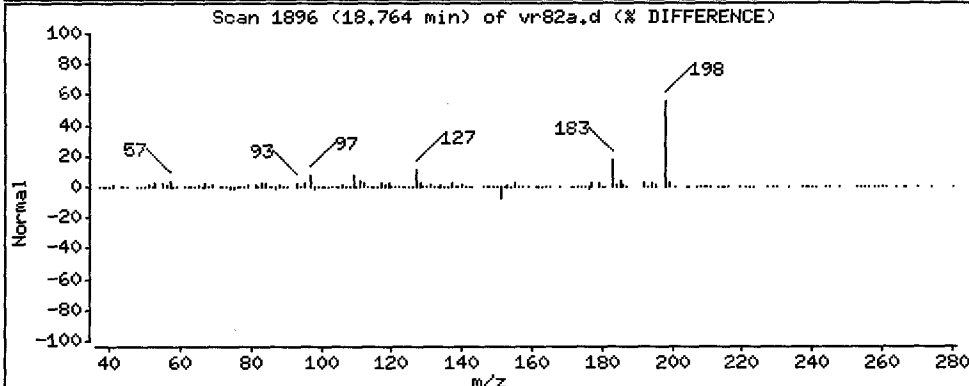
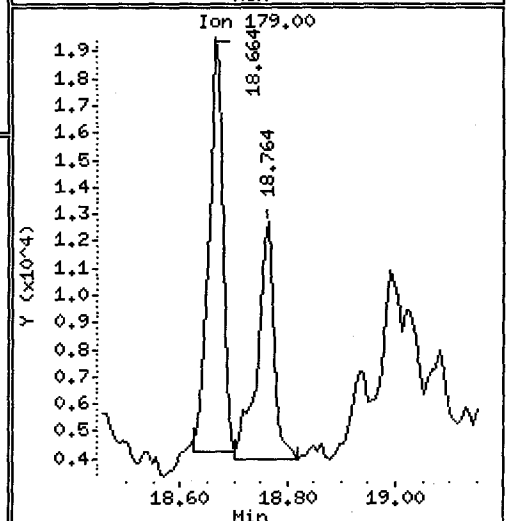
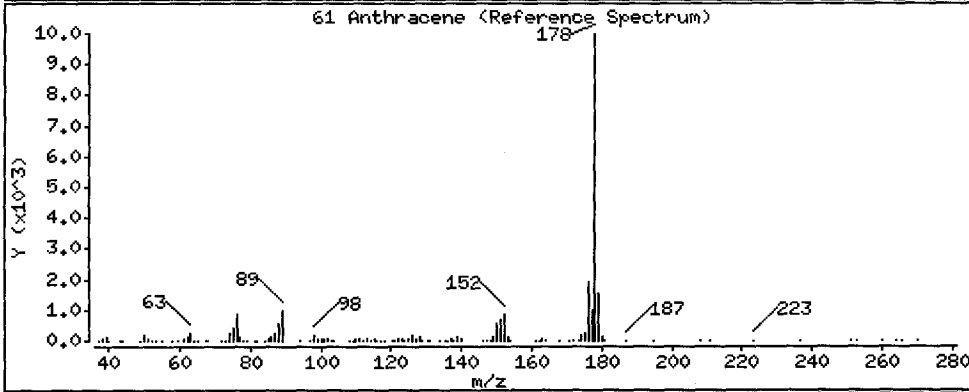
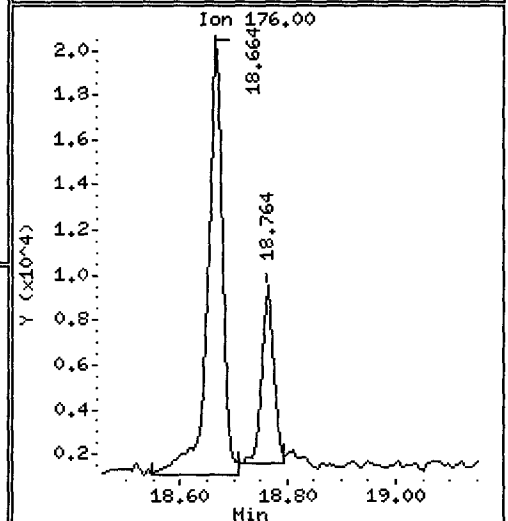
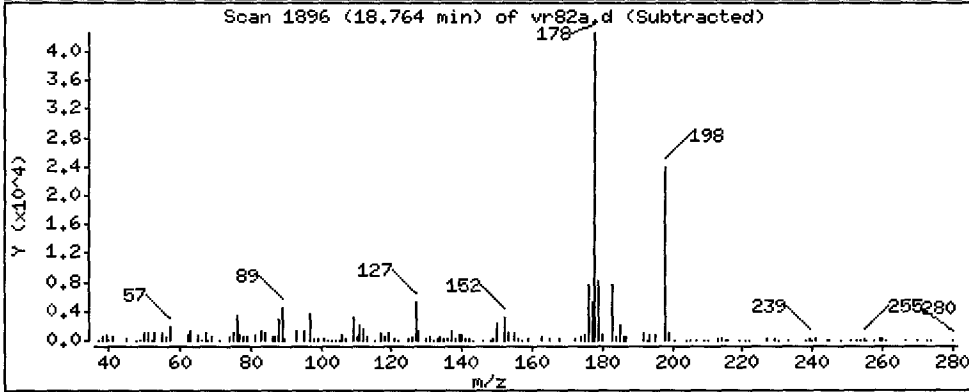
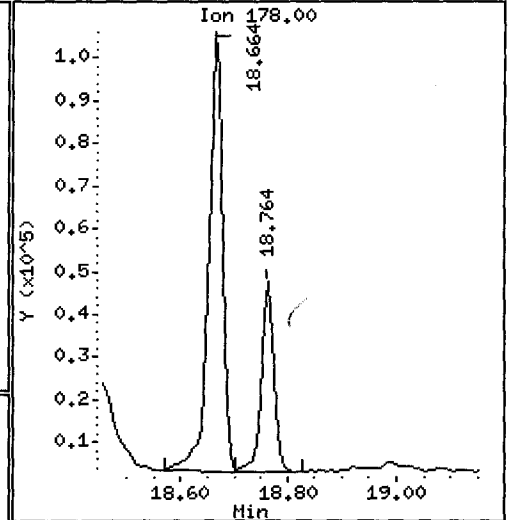
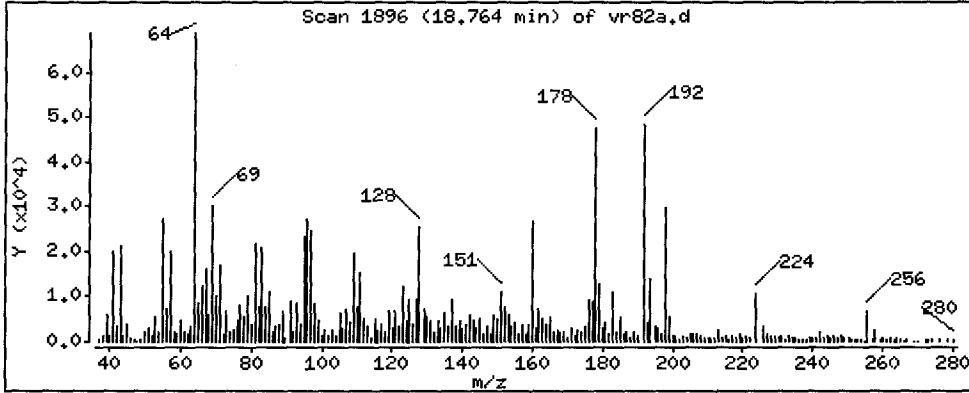
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 65.92 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

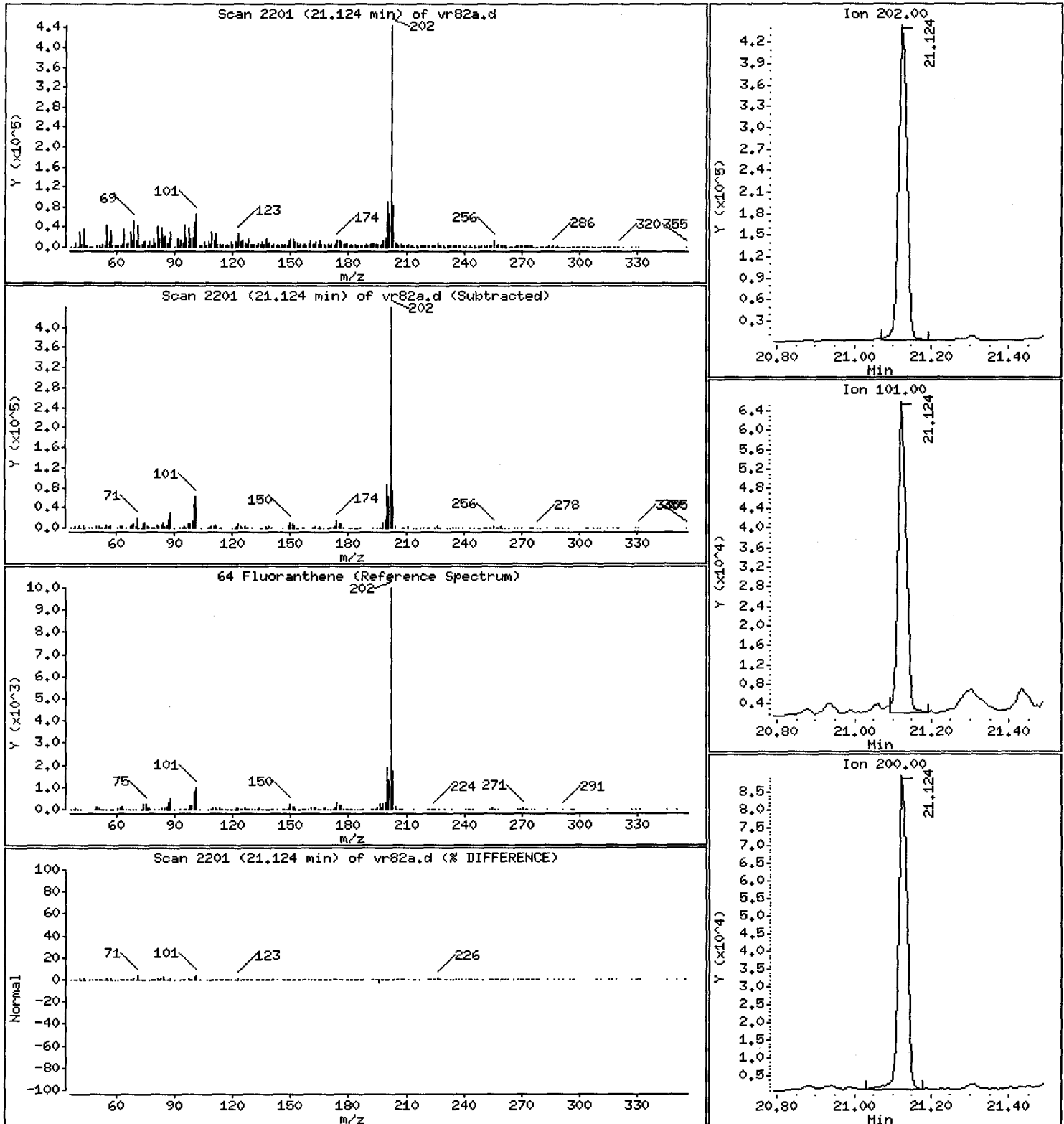
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 480.2 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

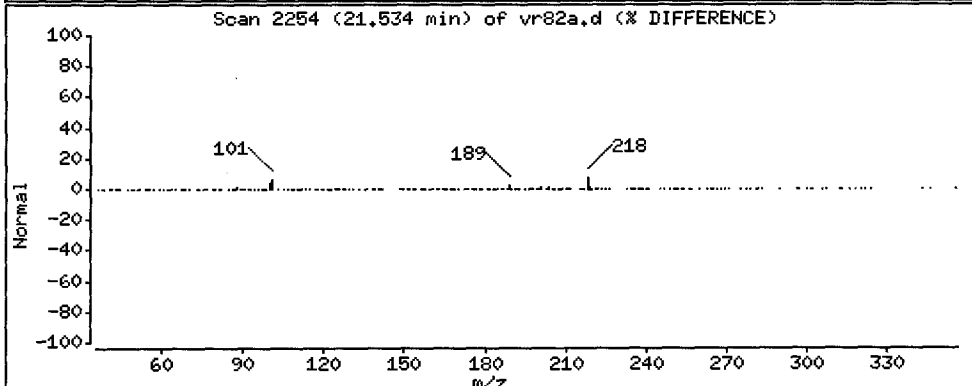
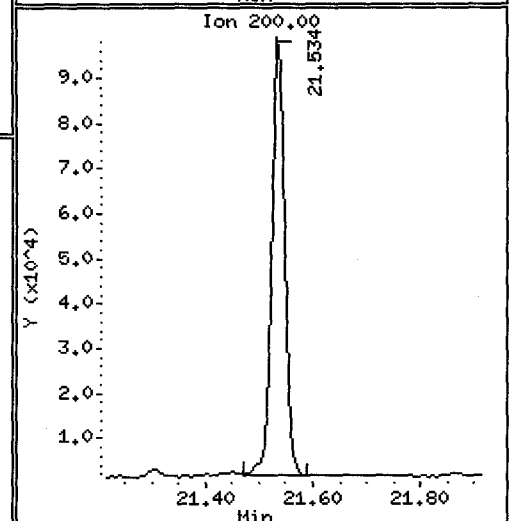
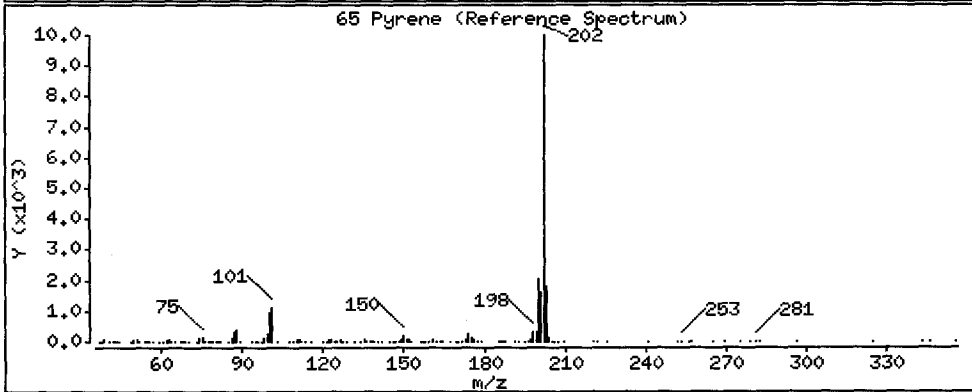
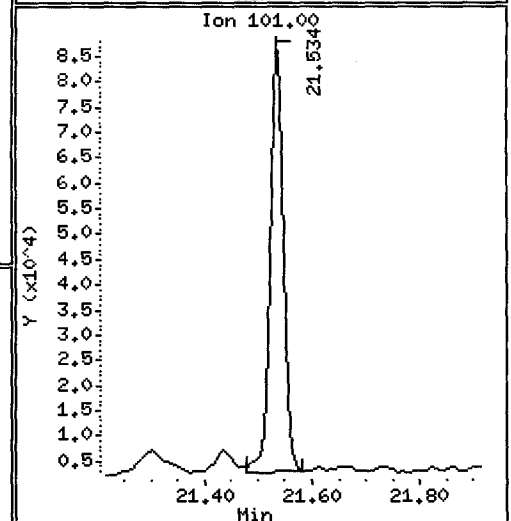
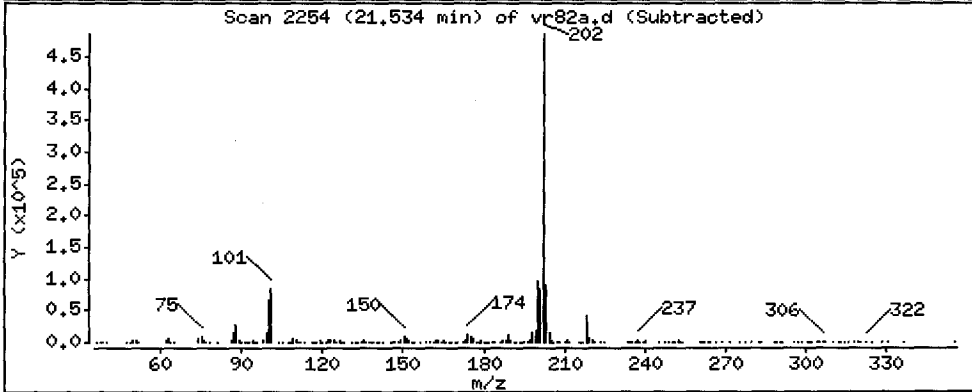
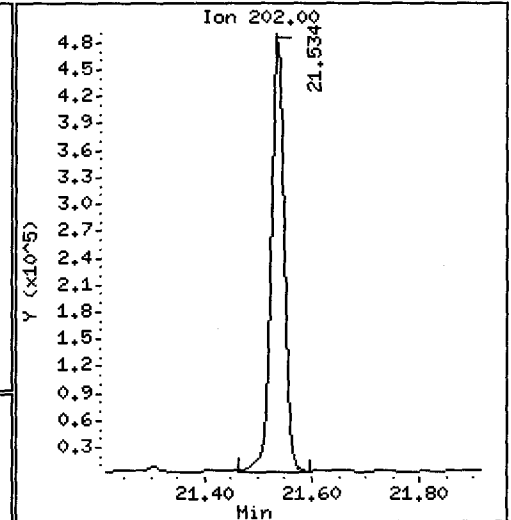
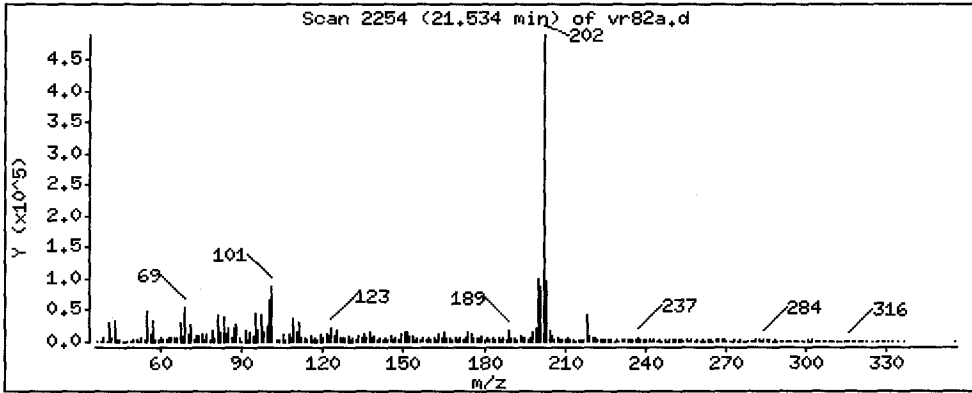
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 587.7 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

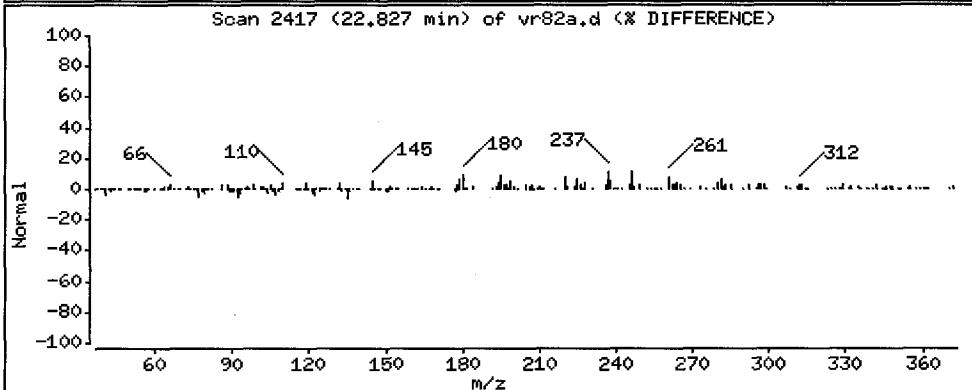
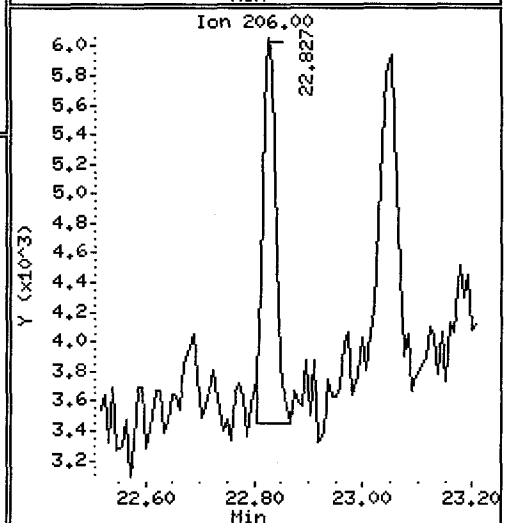
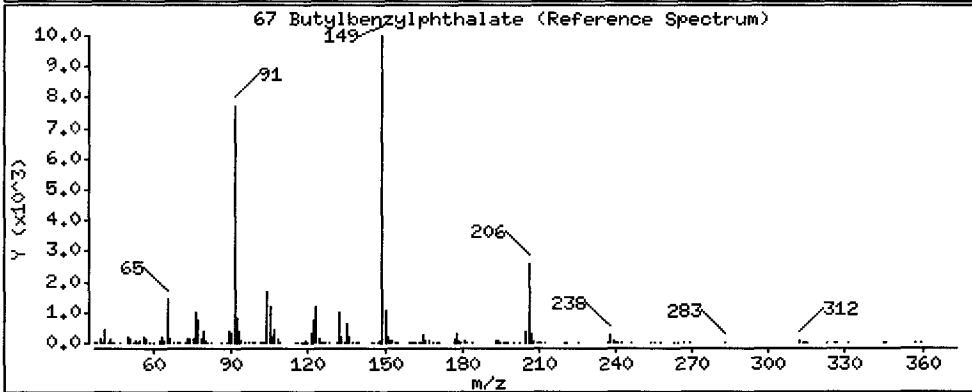
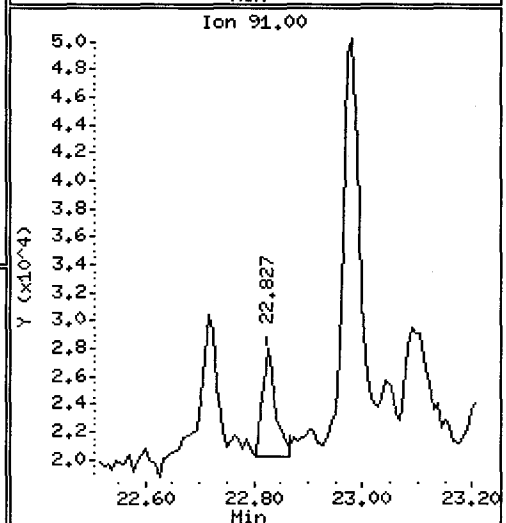
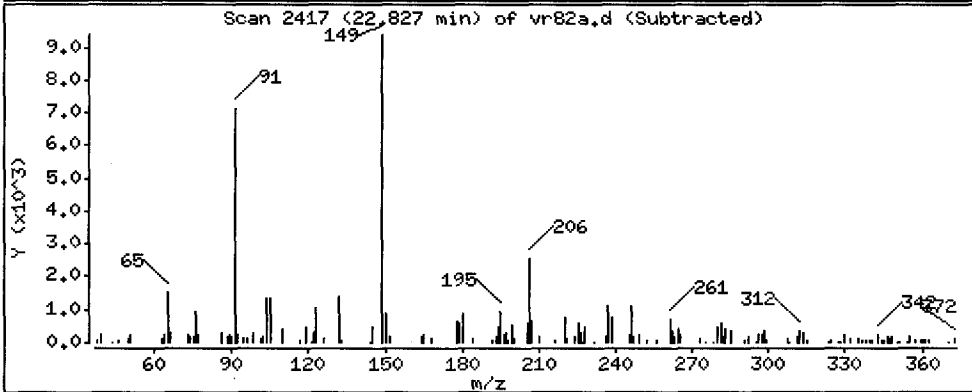
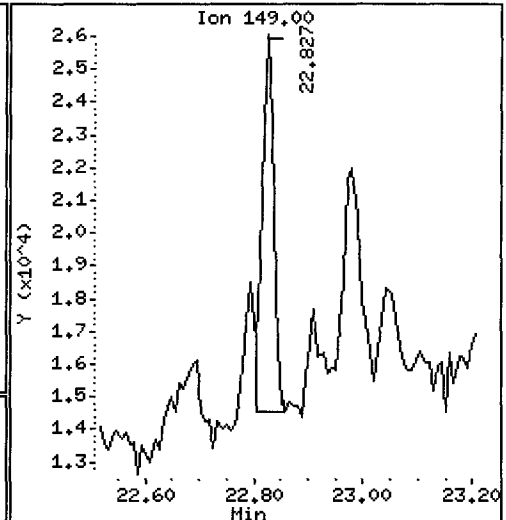
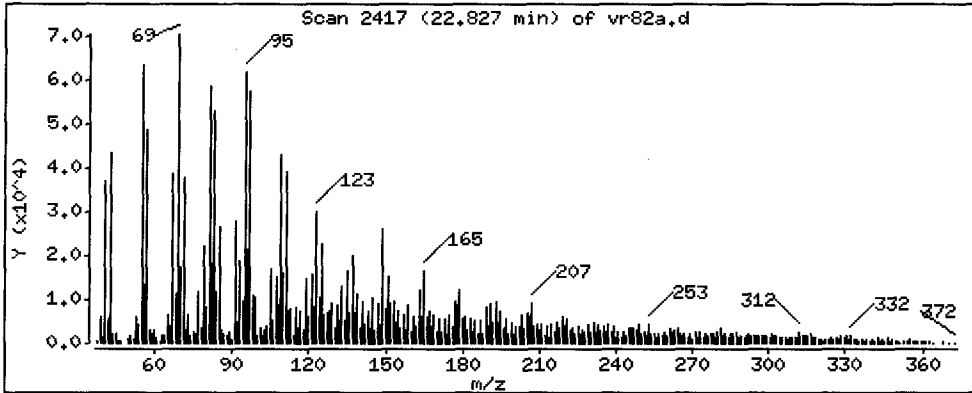
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 32.02 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

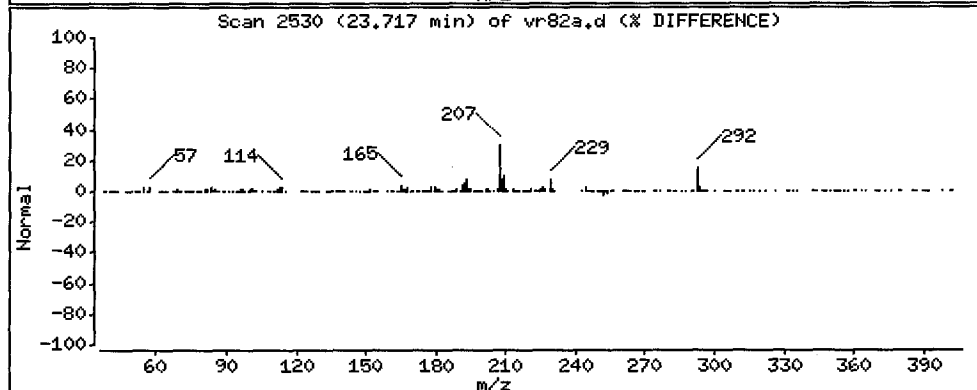
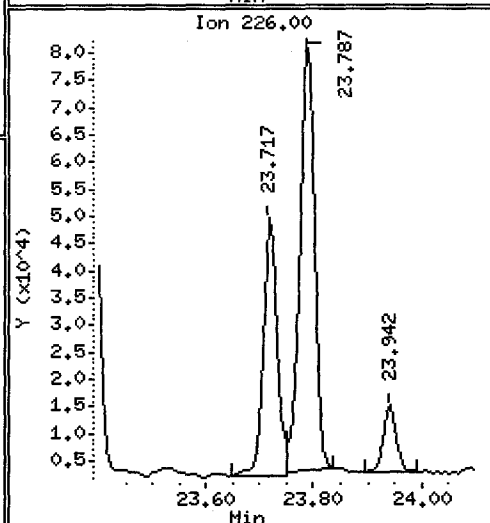
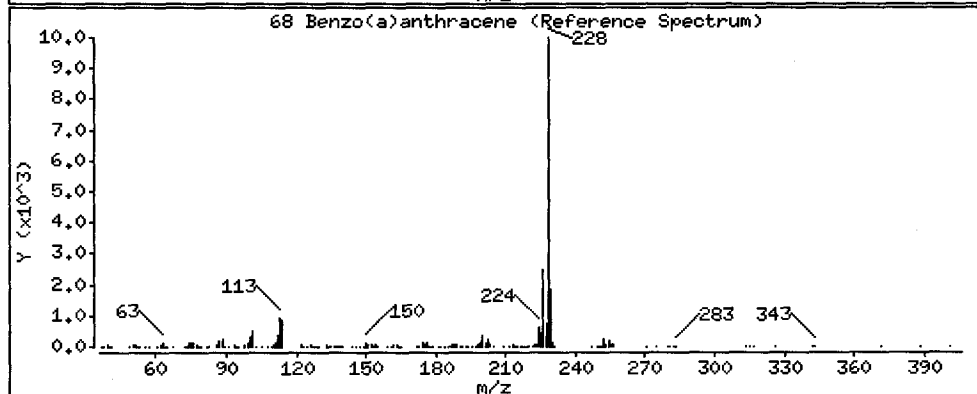
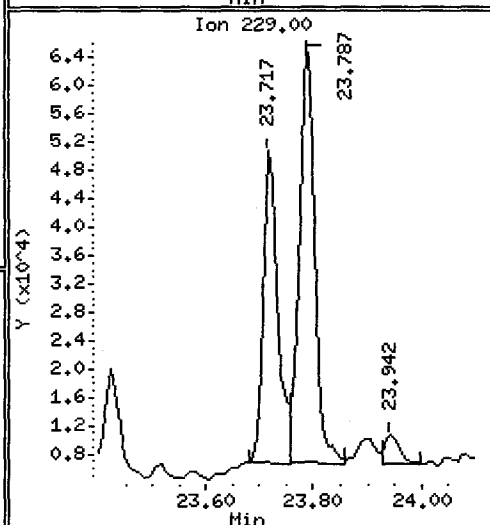
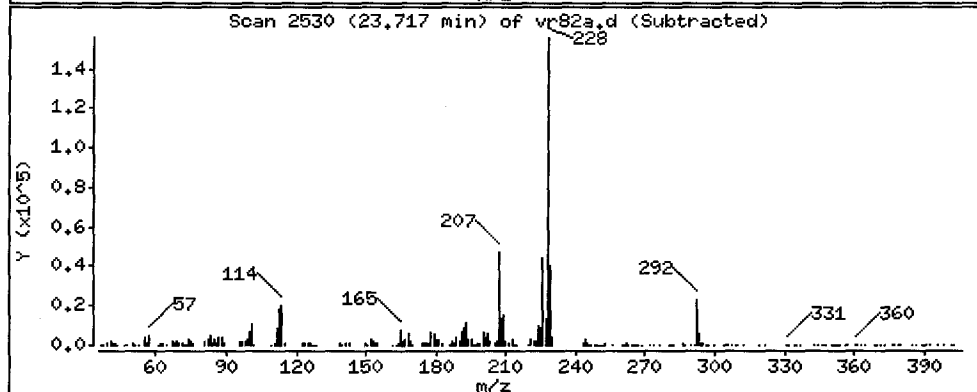
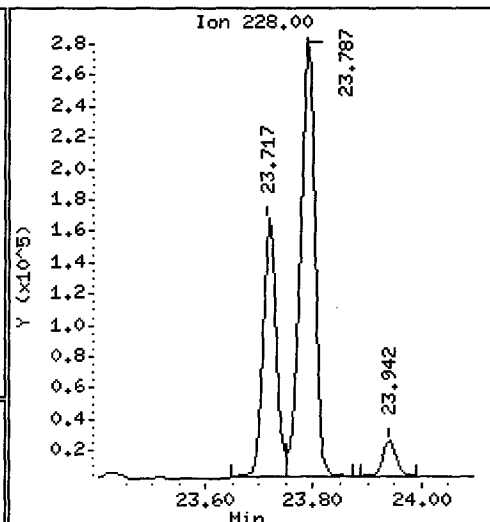
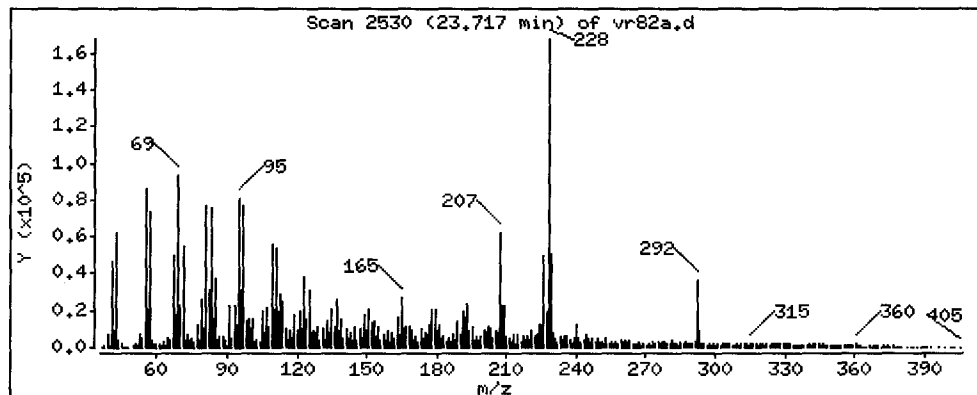
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 212.2 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SC-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

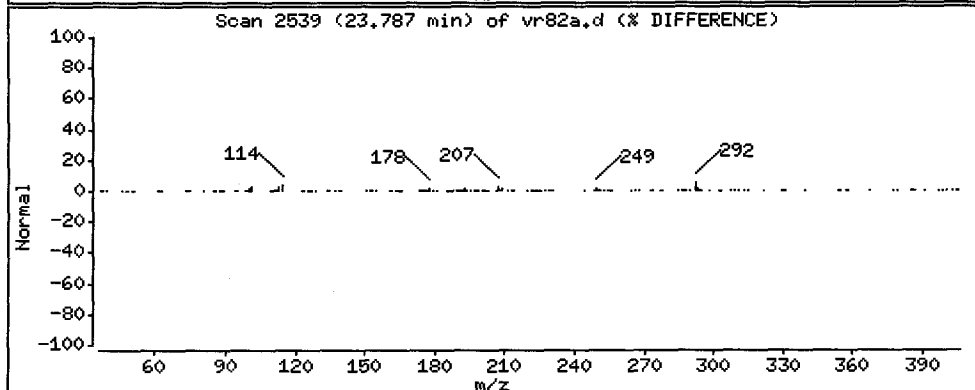
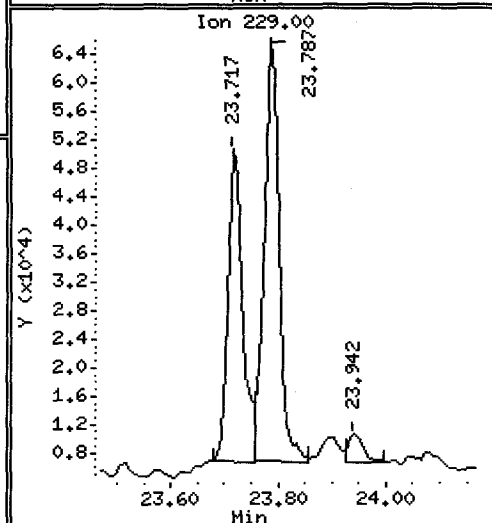
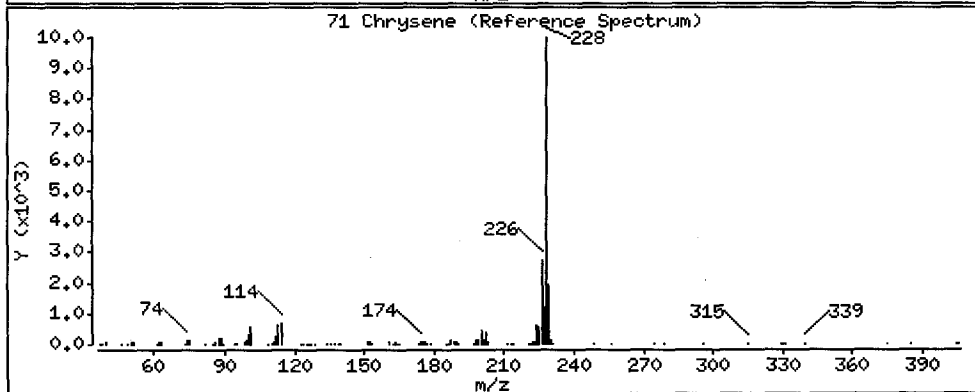
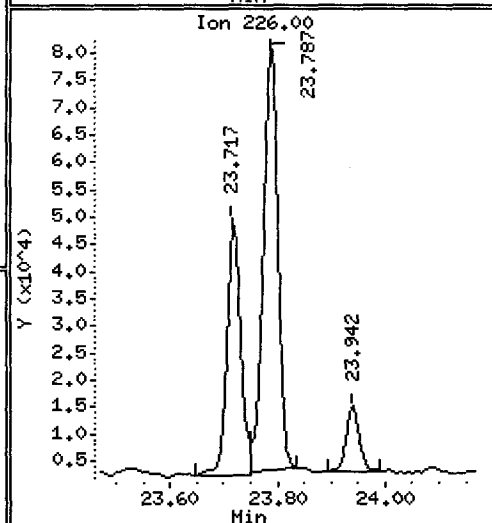
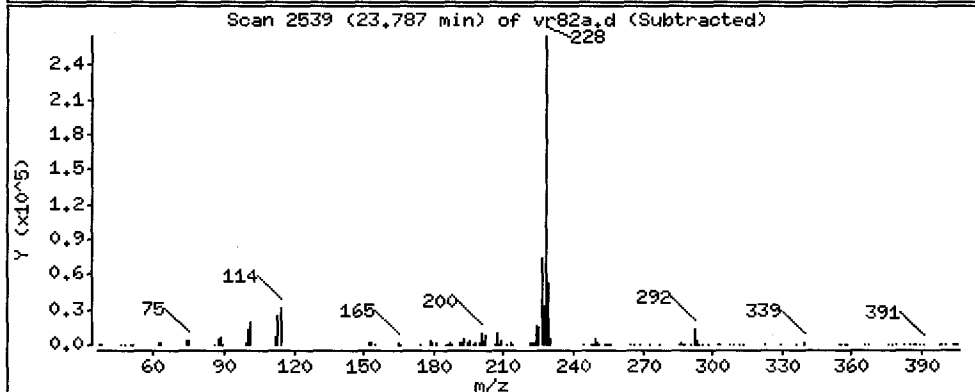
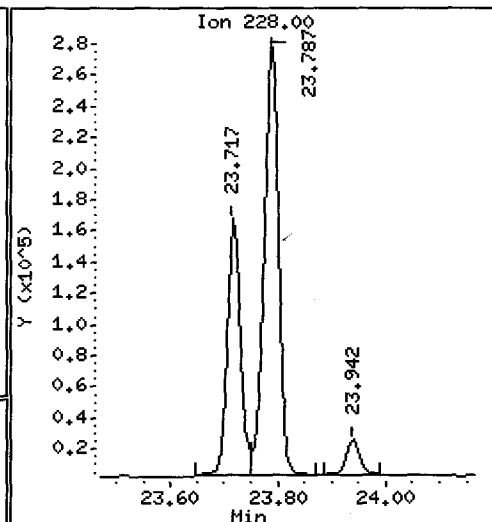
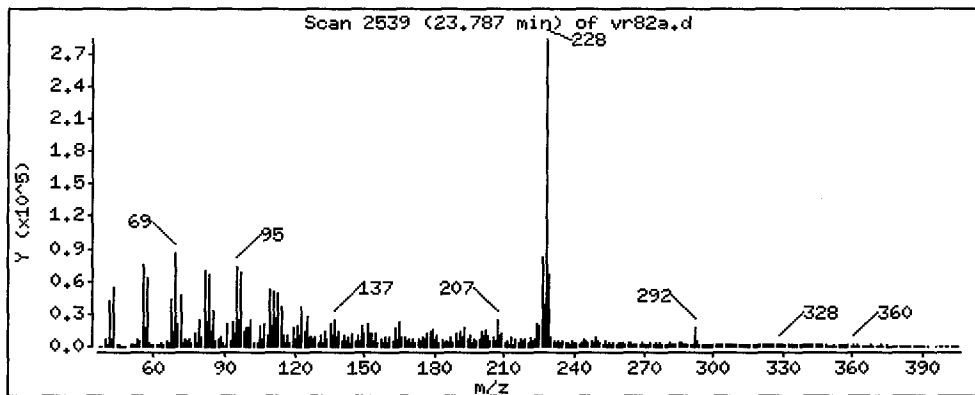
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 442.4 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

Operator: VTS/YZ

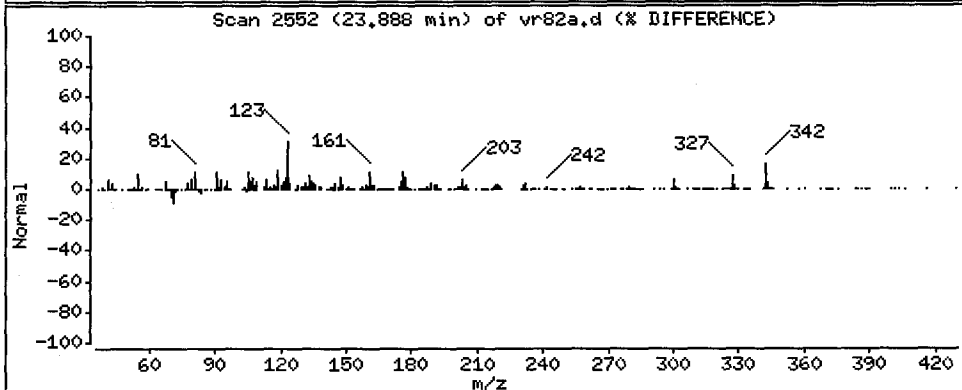
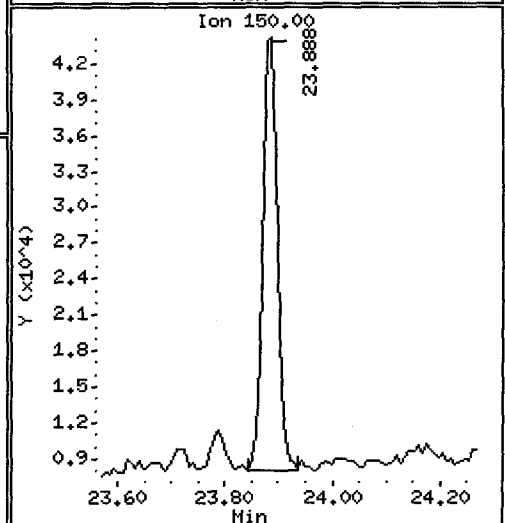
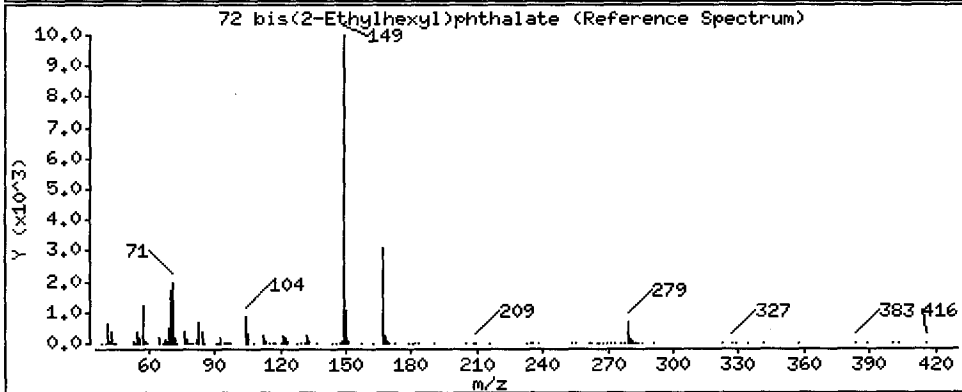
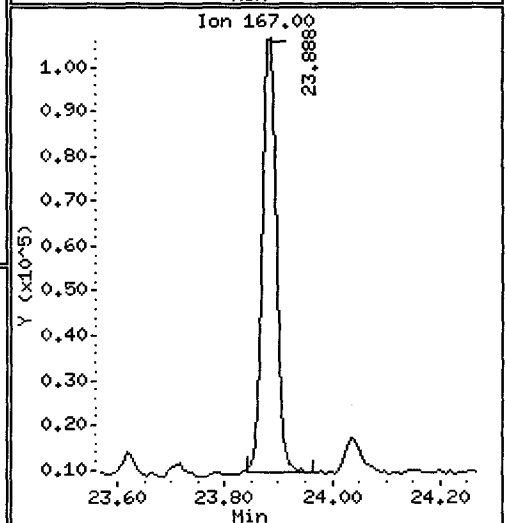
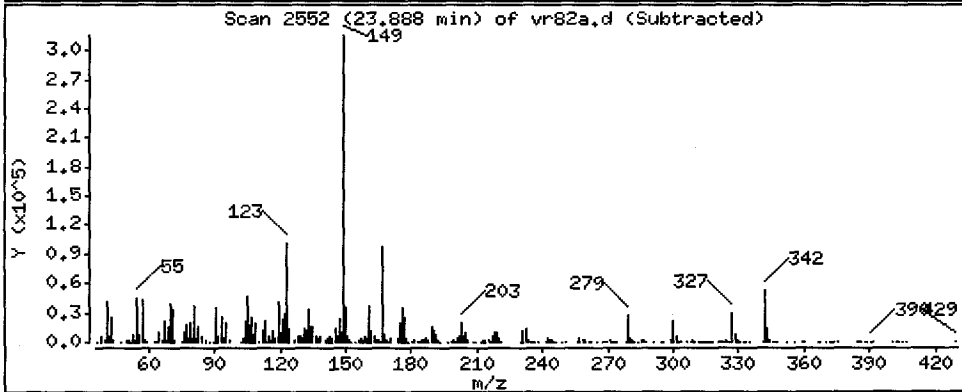
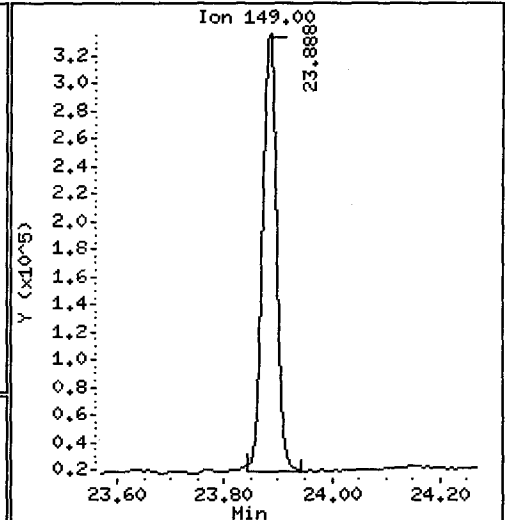
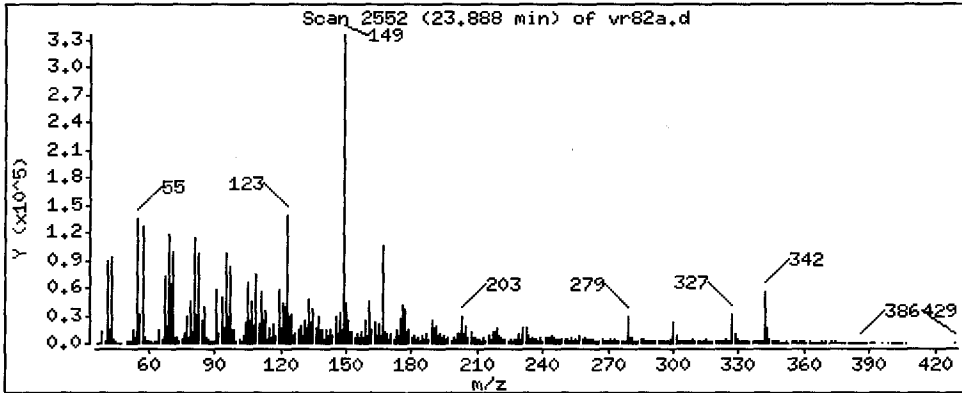
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 675.6 ug/kg

5



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

Operator: VTS/YZ

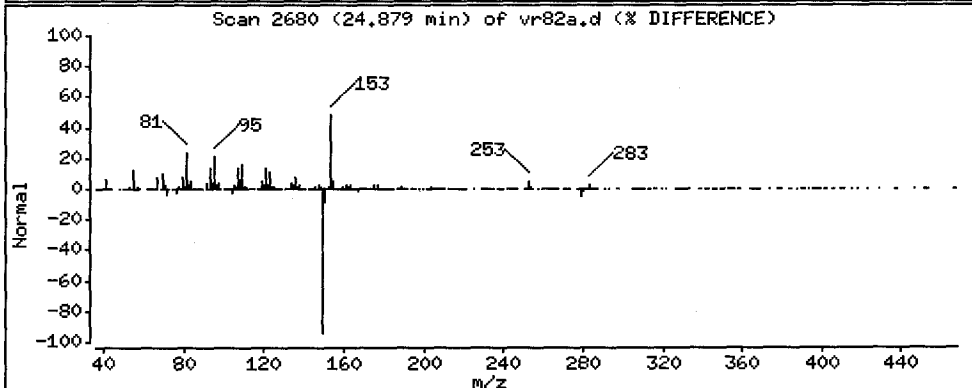
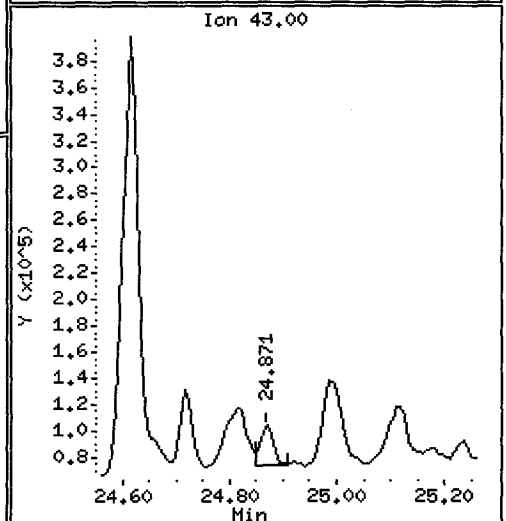
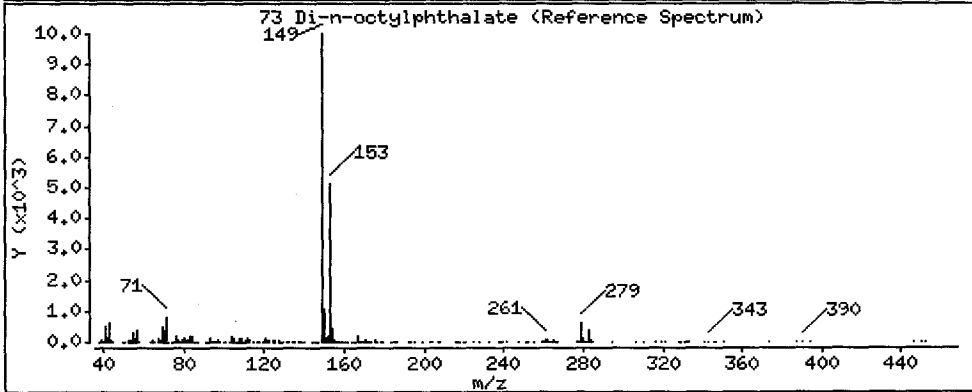
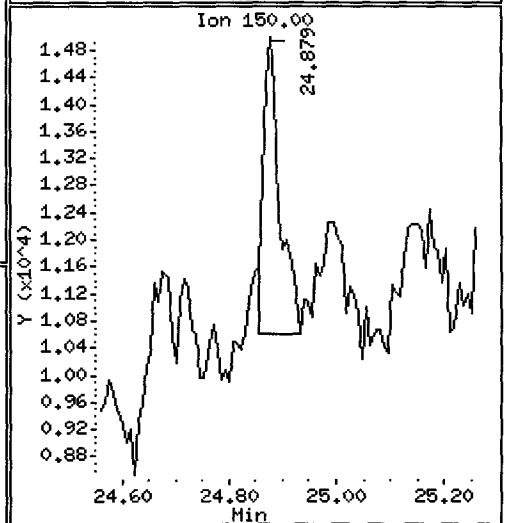
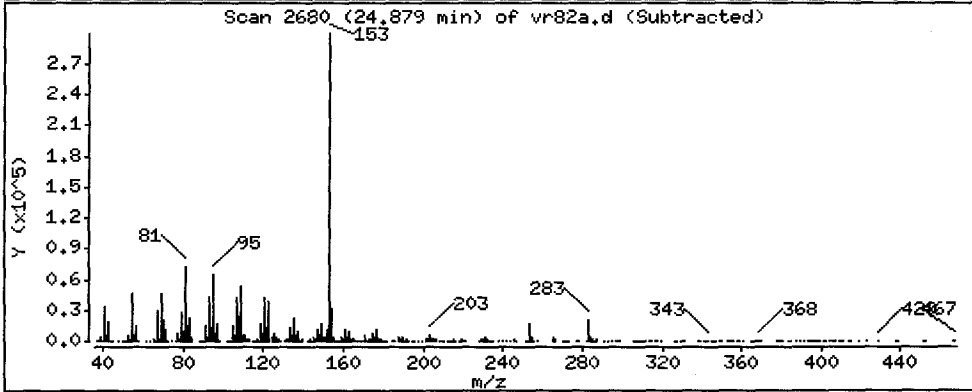
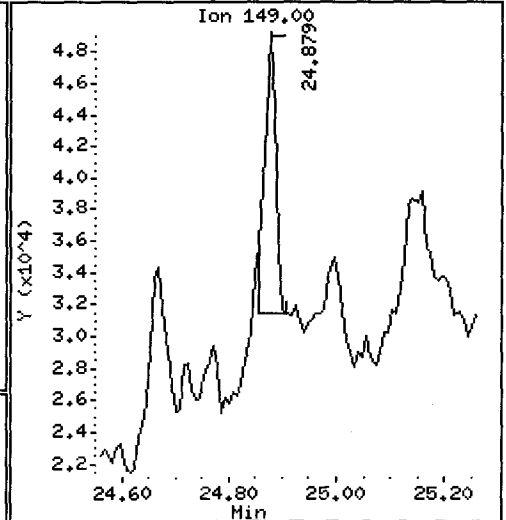
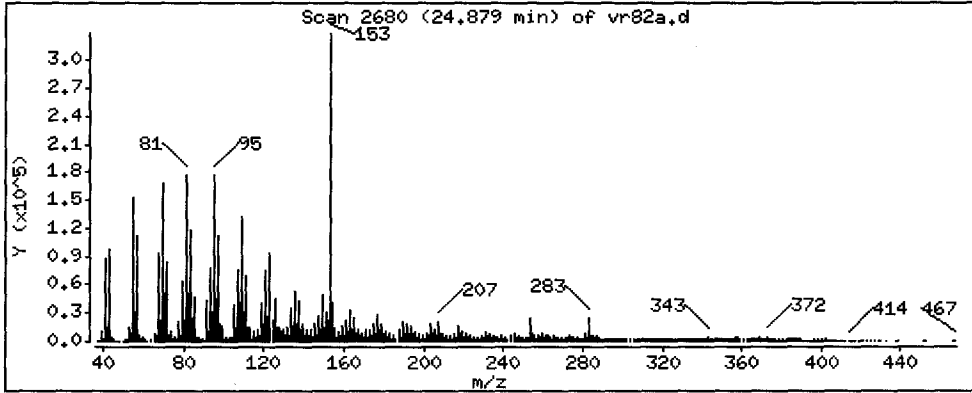
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 18.91 ug/kg

NOT
REPORT
C. H. H. Y.
12/6/12



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

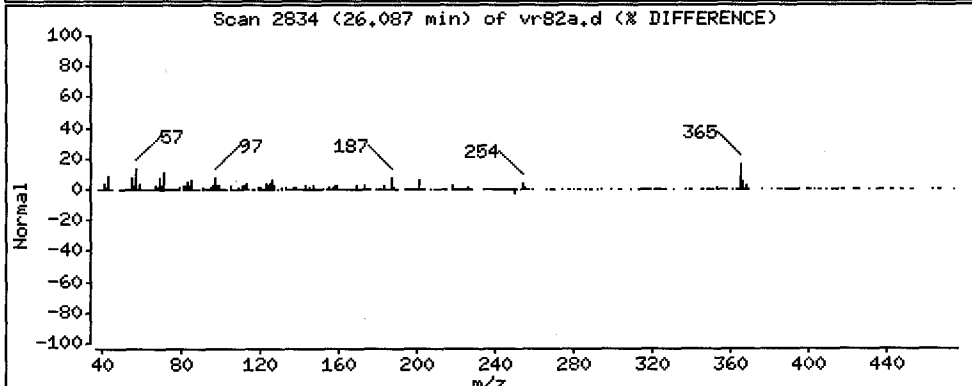
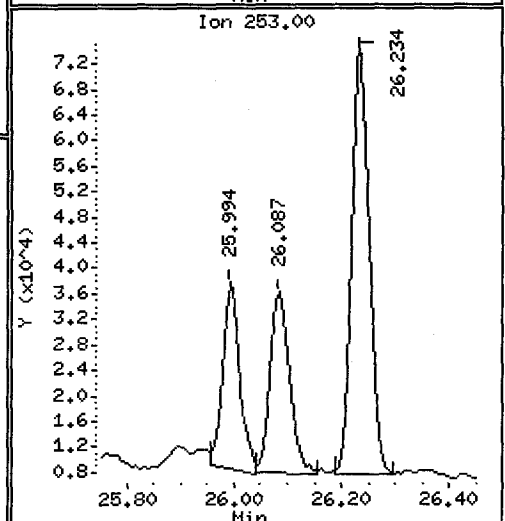
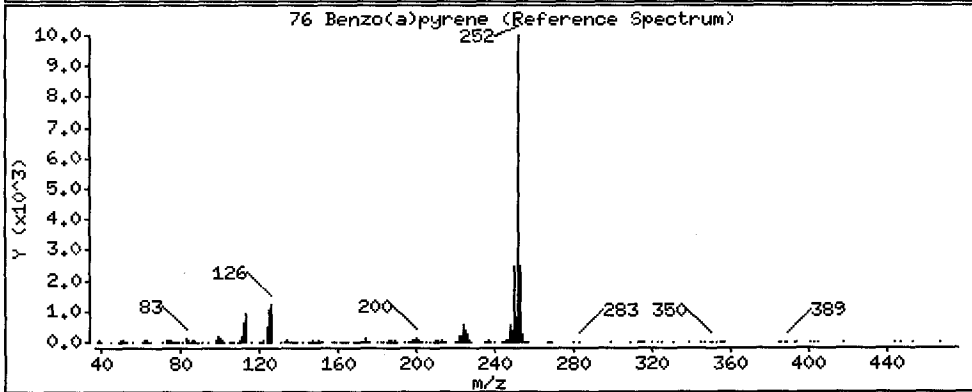
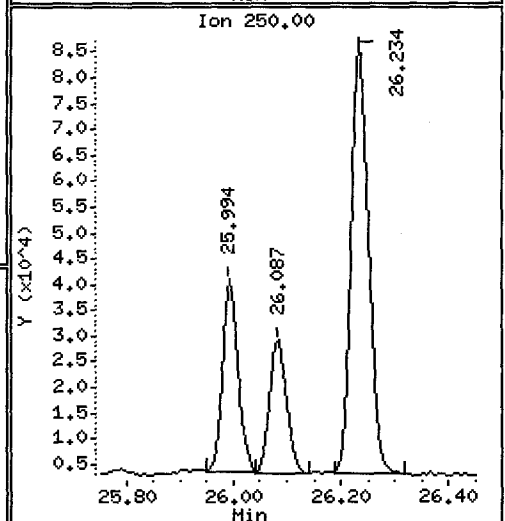
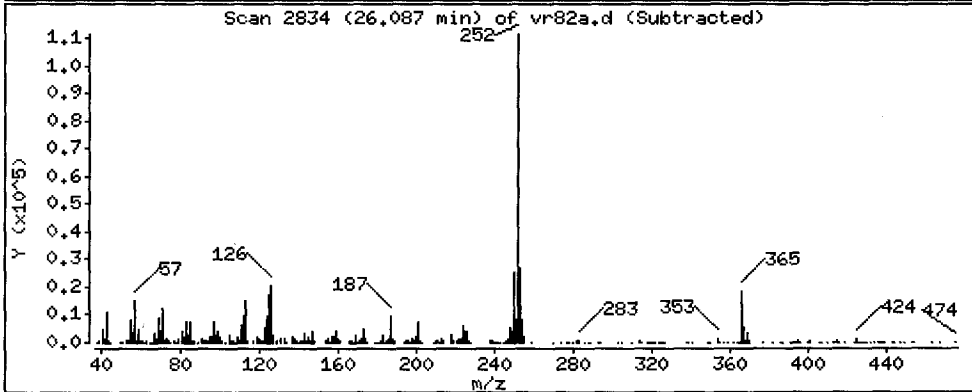
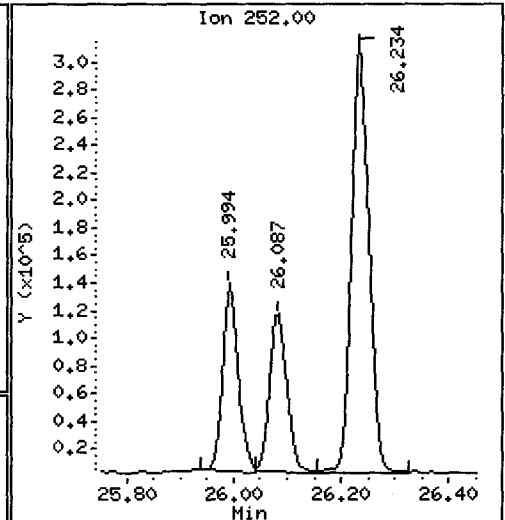
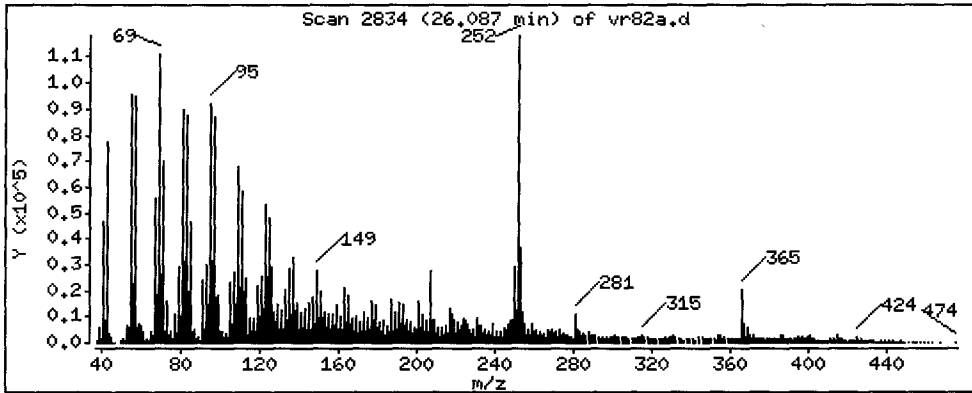
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 189.9 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

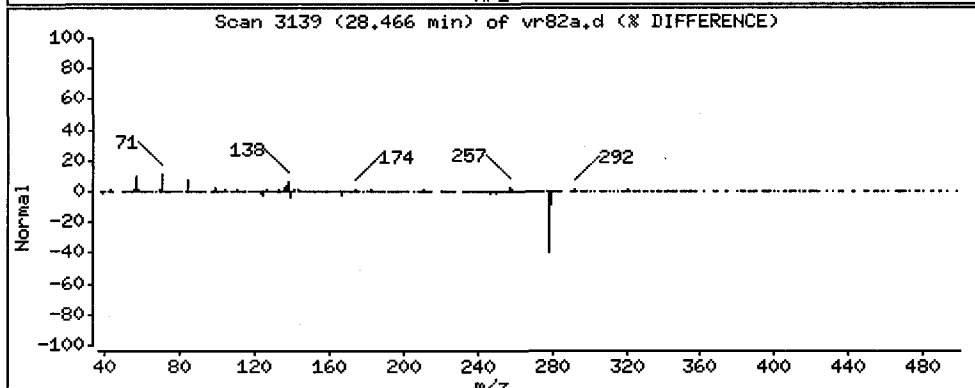
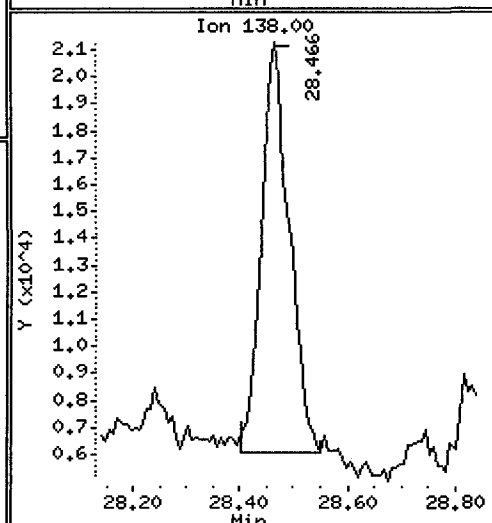
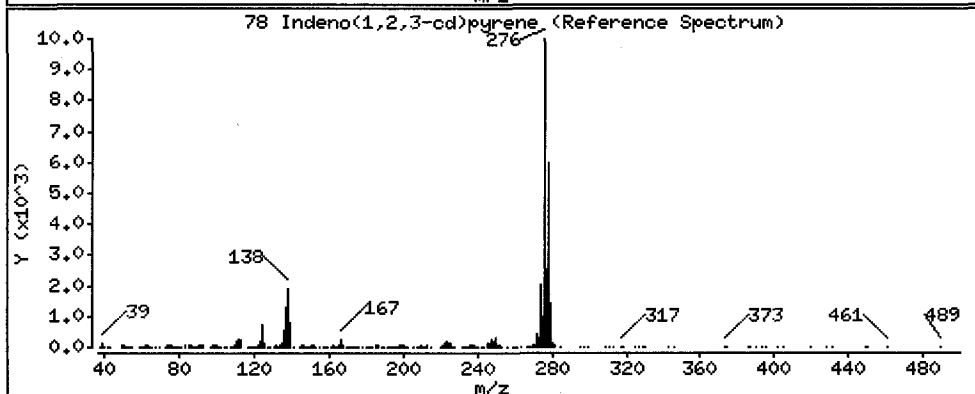
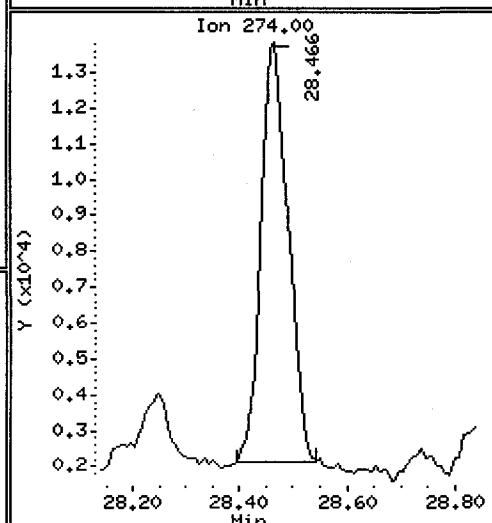
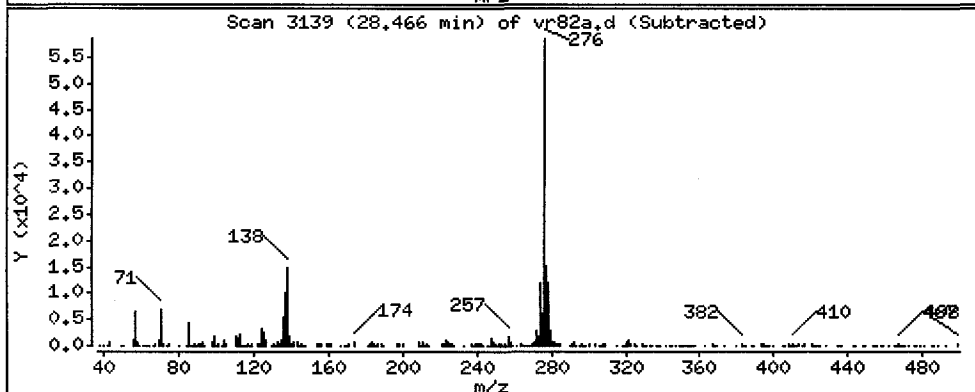
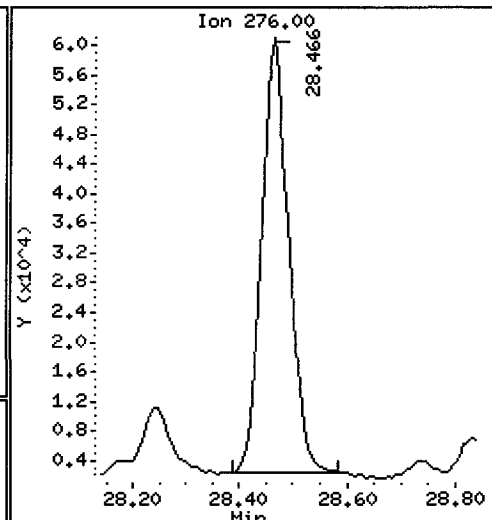
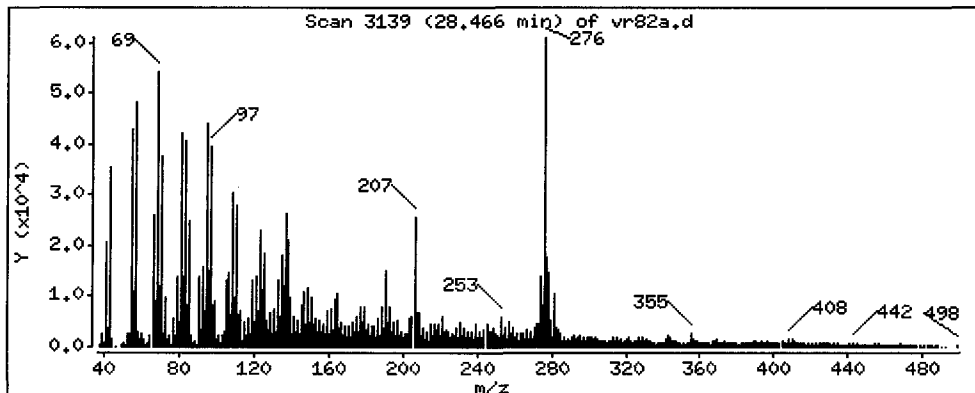
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 137.6 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

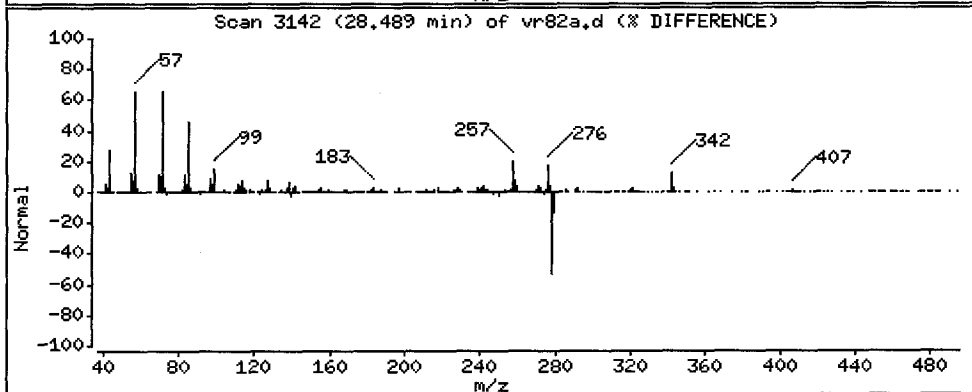
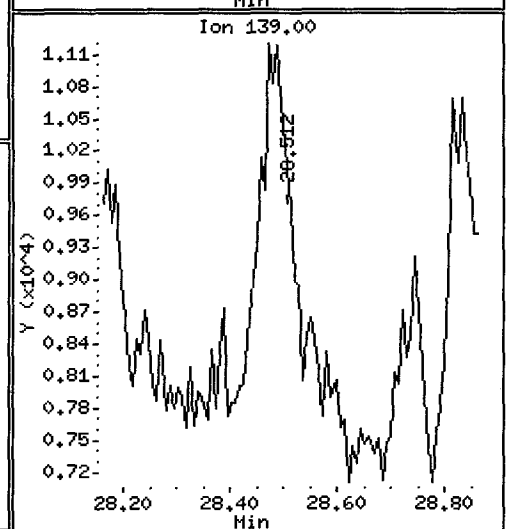
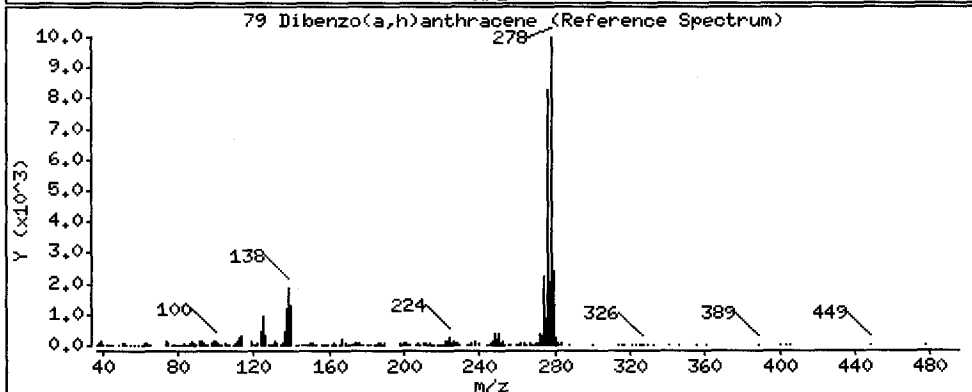
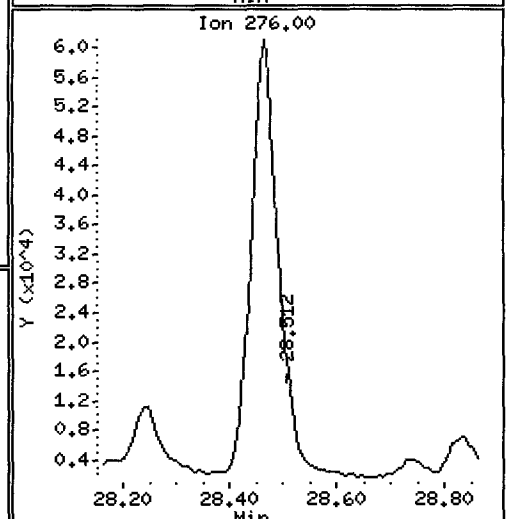
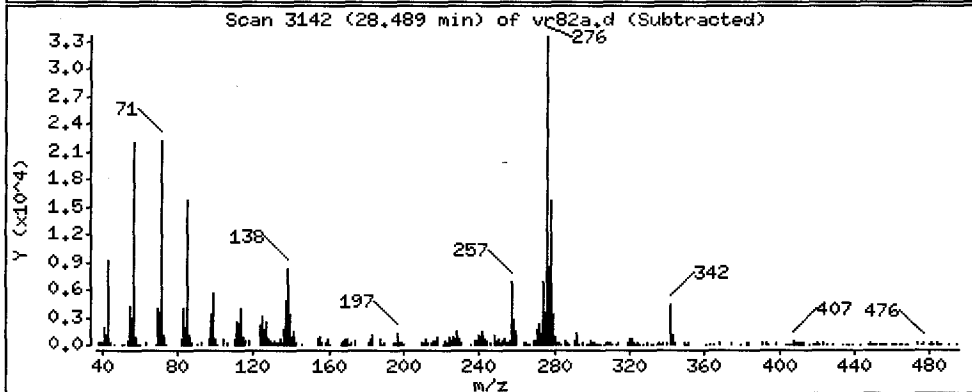
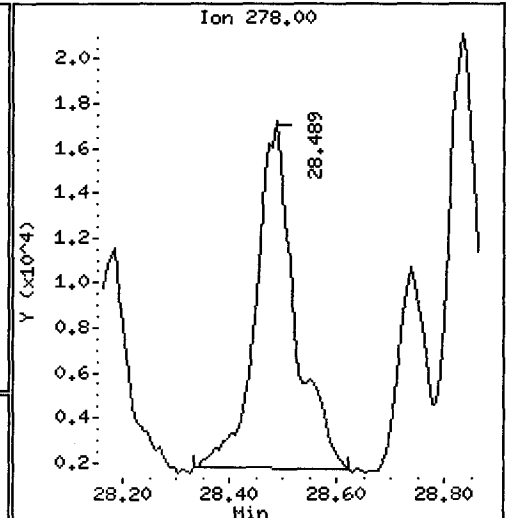
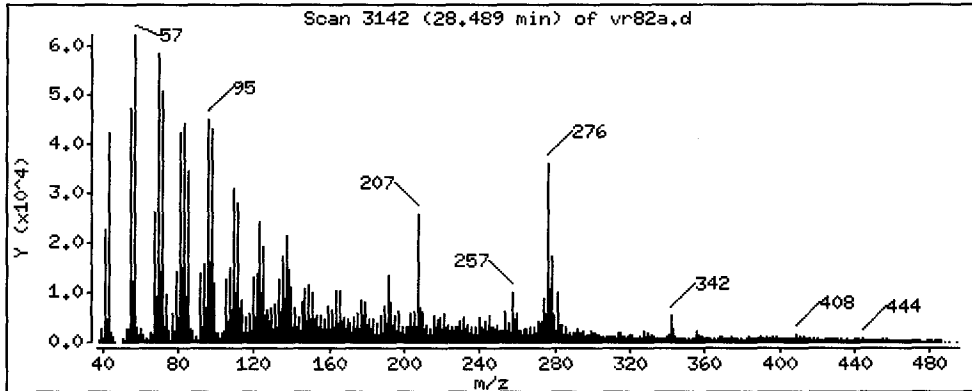
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 66.66 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

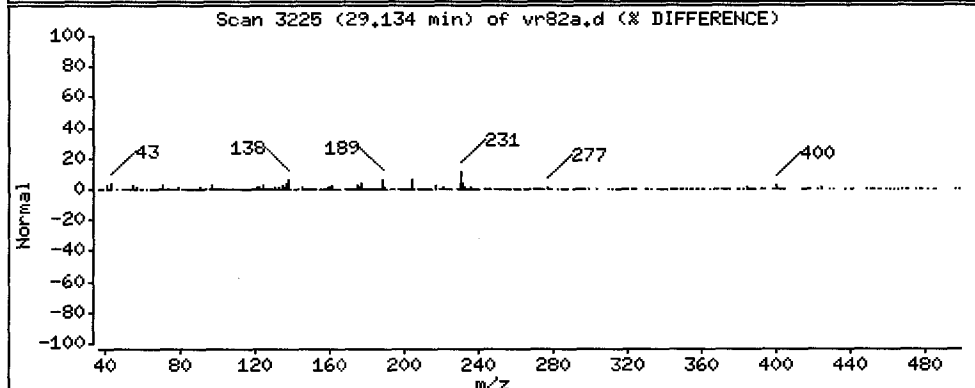
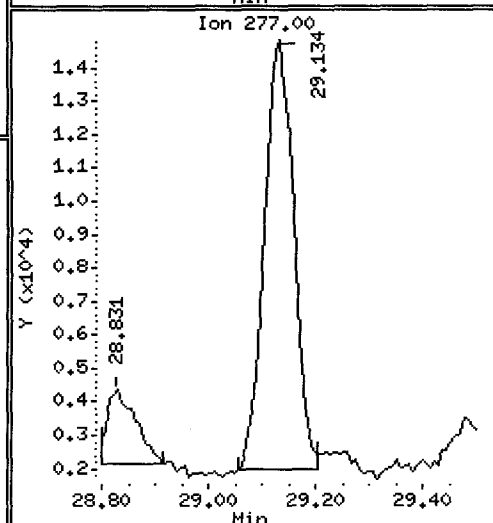
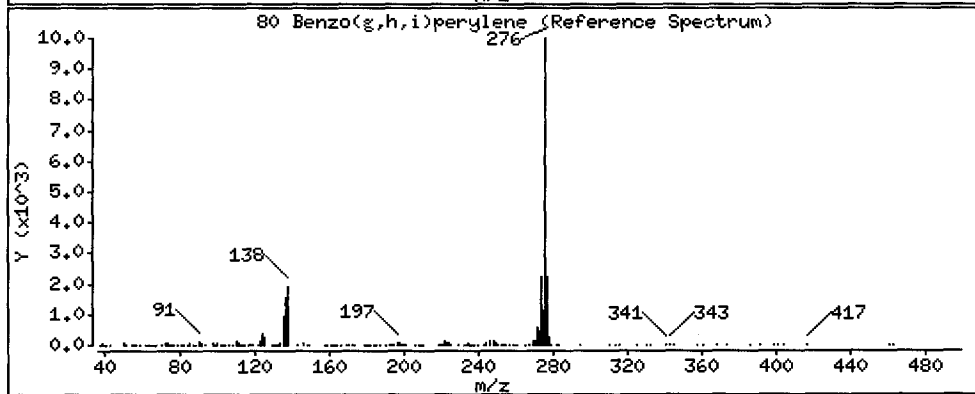
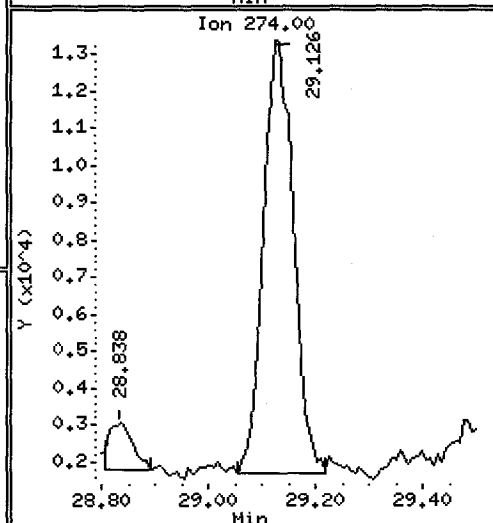
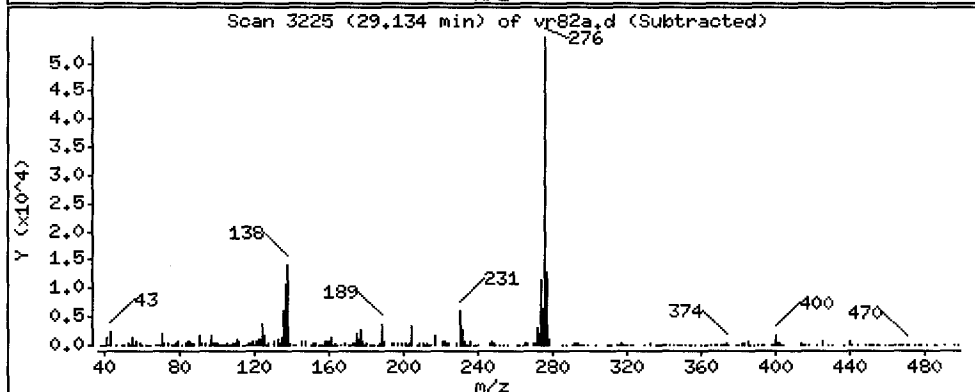
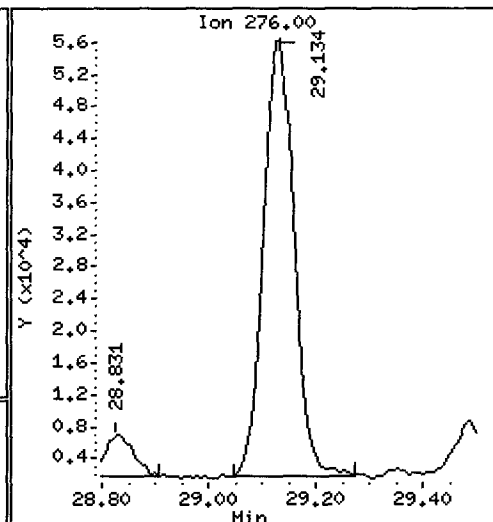
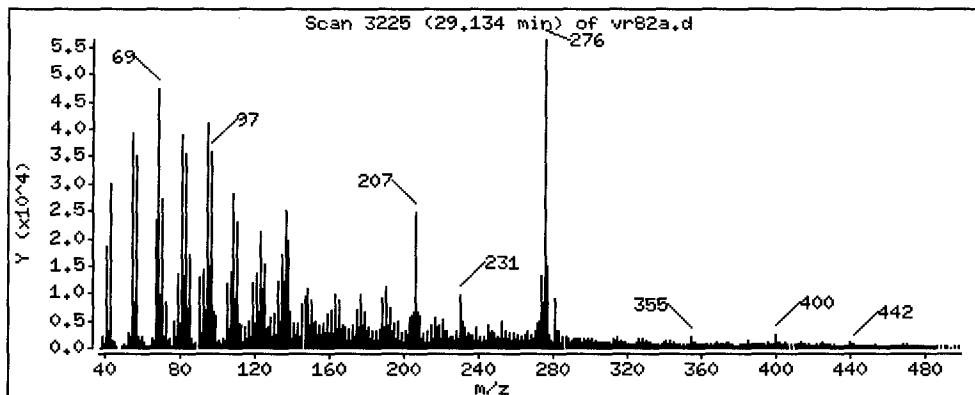
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 166.1 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

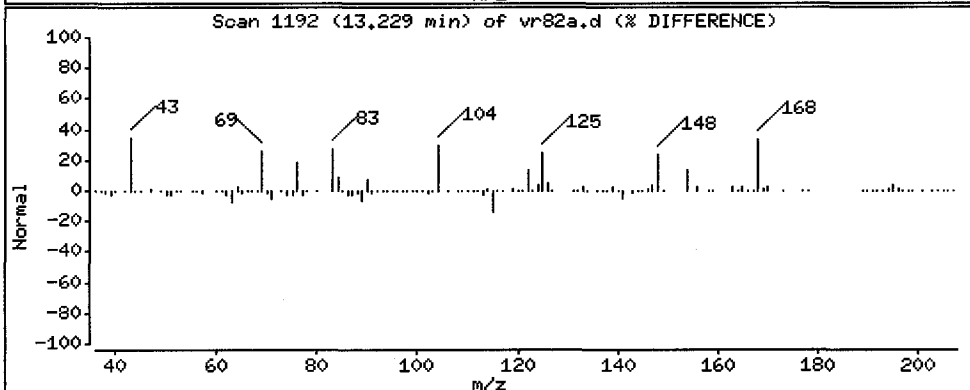
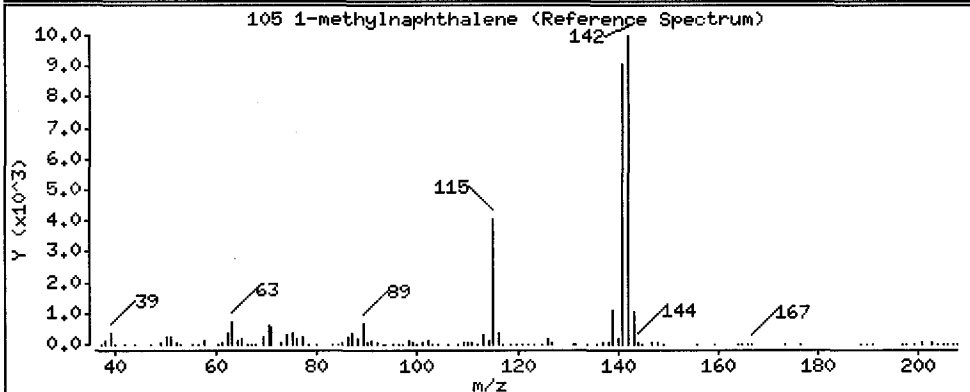
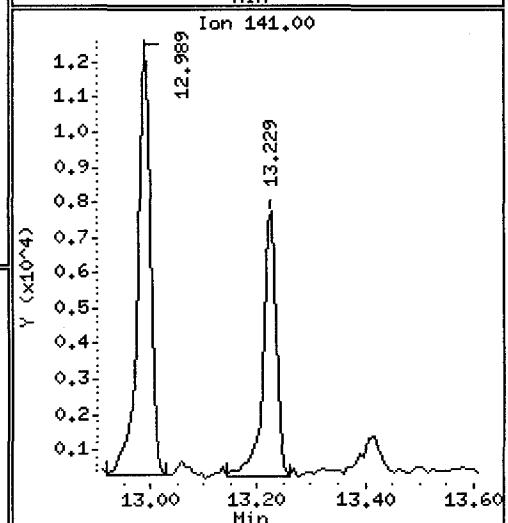
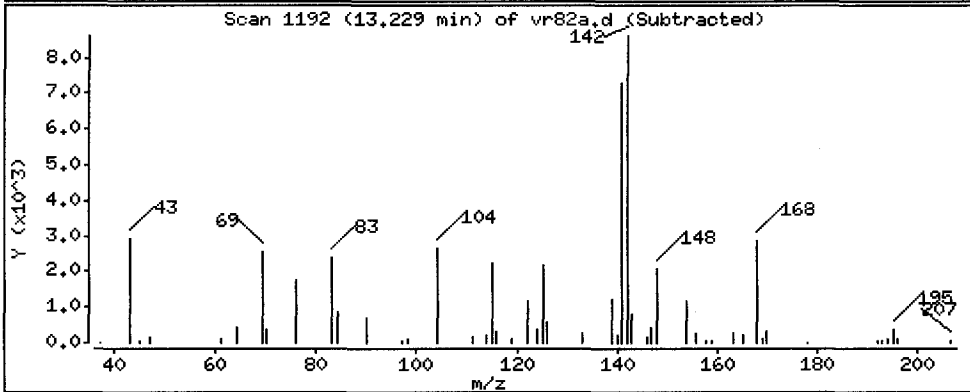
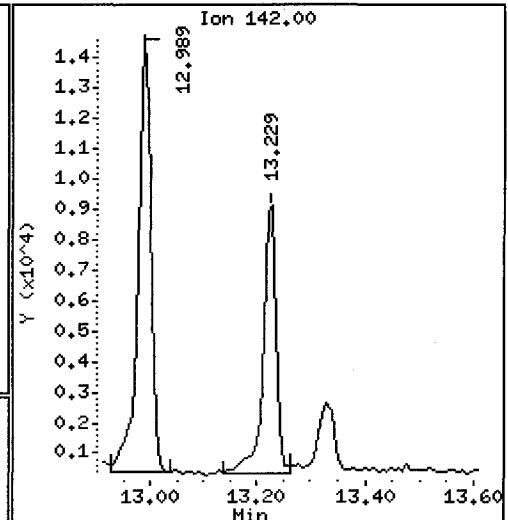
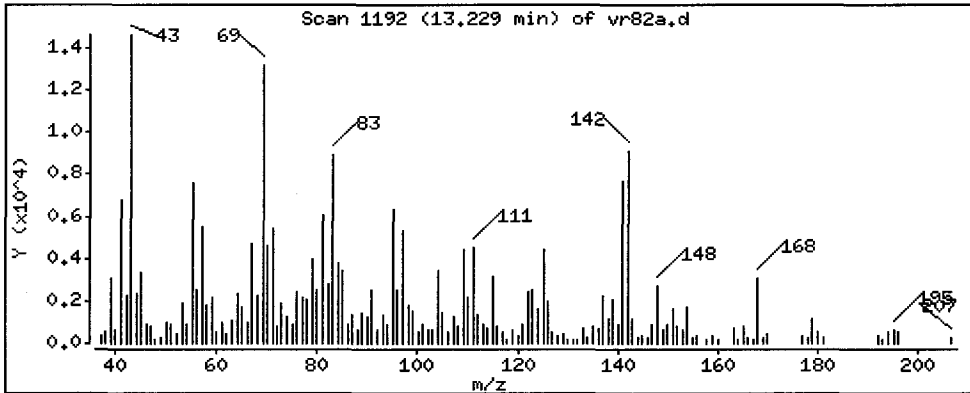
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 21.14 ug/kg



Date : 05-DEC-2012 14:00

Client ID: SG-02-S-C-121108

Instrument: nt10.i

Sample Info: VR82A

Volume Injected (uL): 1.0

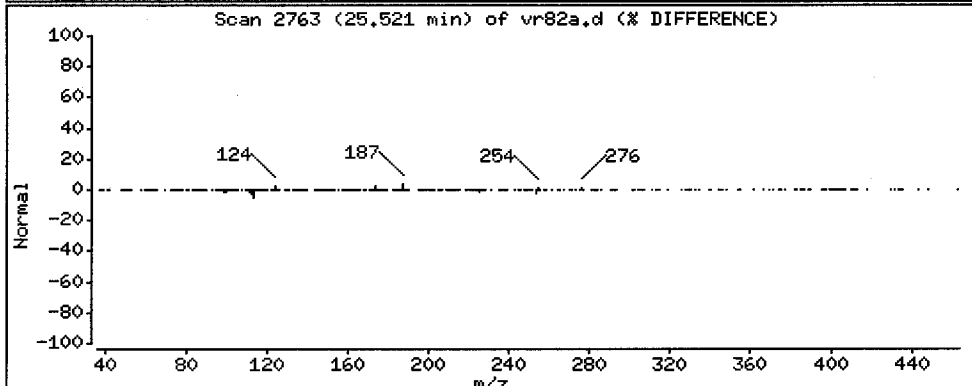
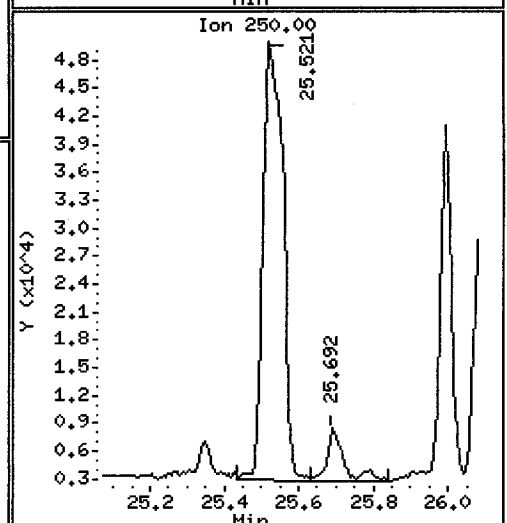
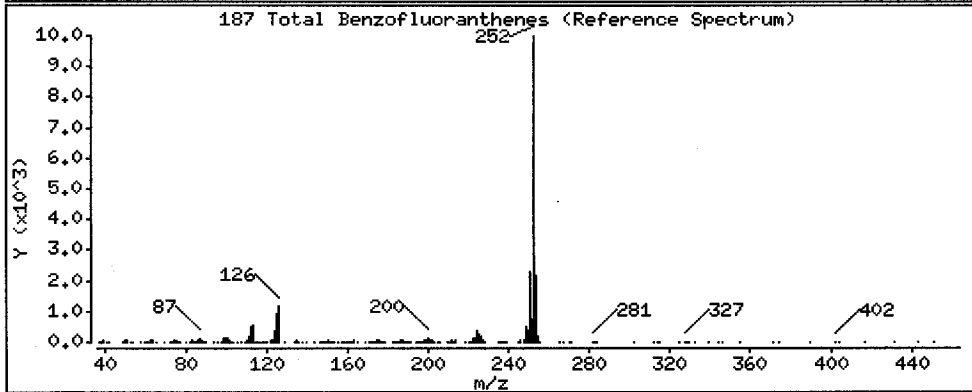
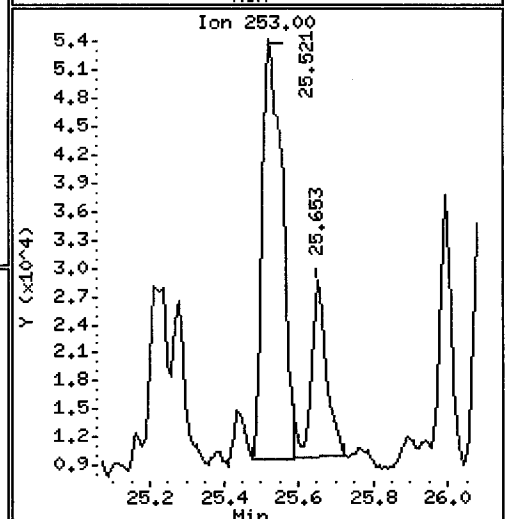
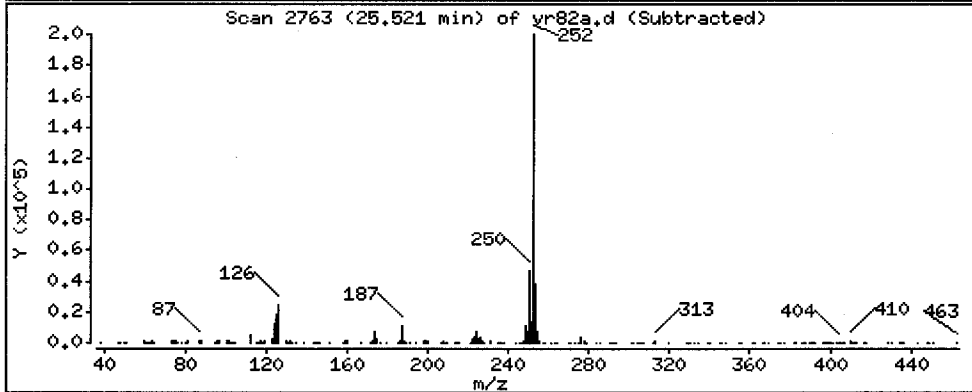
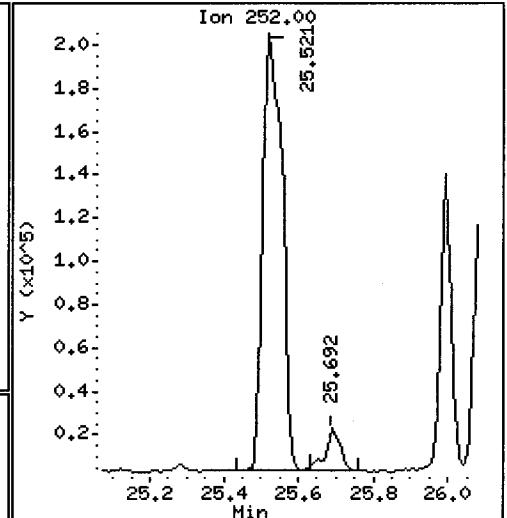
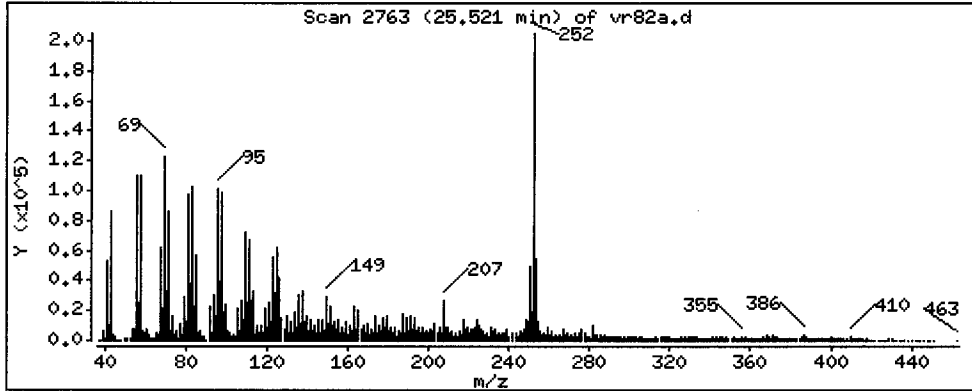
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

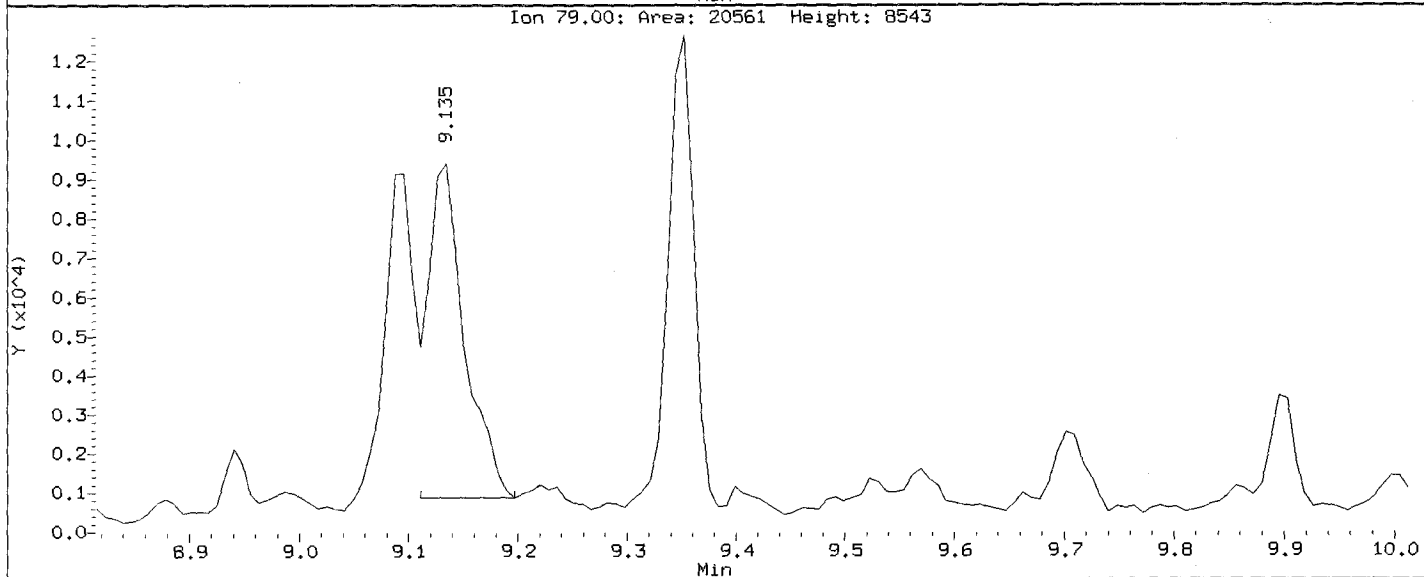
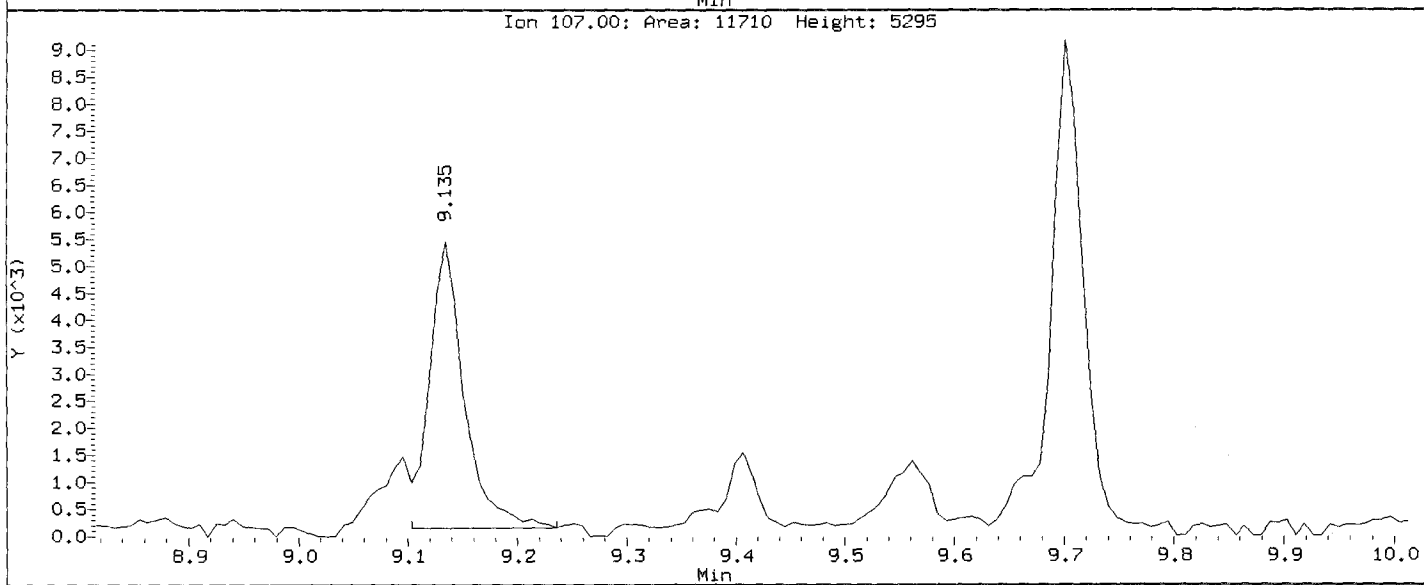
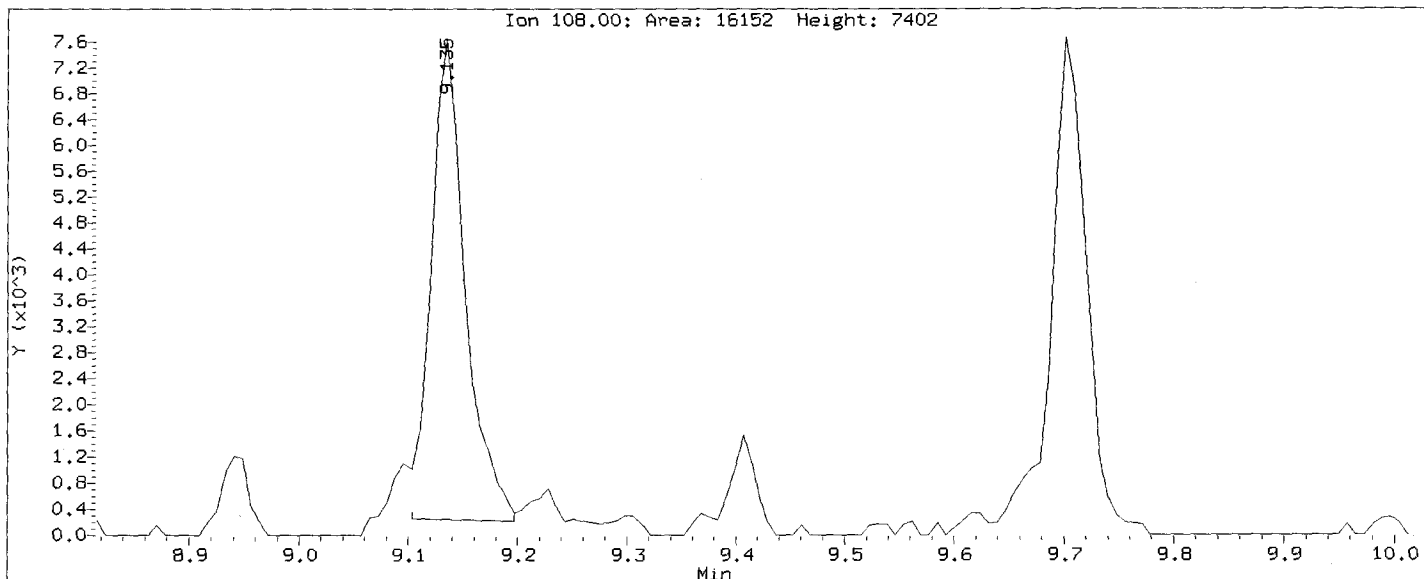
Concentration: 526.5 ug/kg



Data File: /chem1/nt10.1/20121205.b/vr82a.d
Injection Date: 05-DEC-2012 14:00
Instrument: nt10.i
Client Sample ID: SG-02-S-C-121108

VD
12-6-12

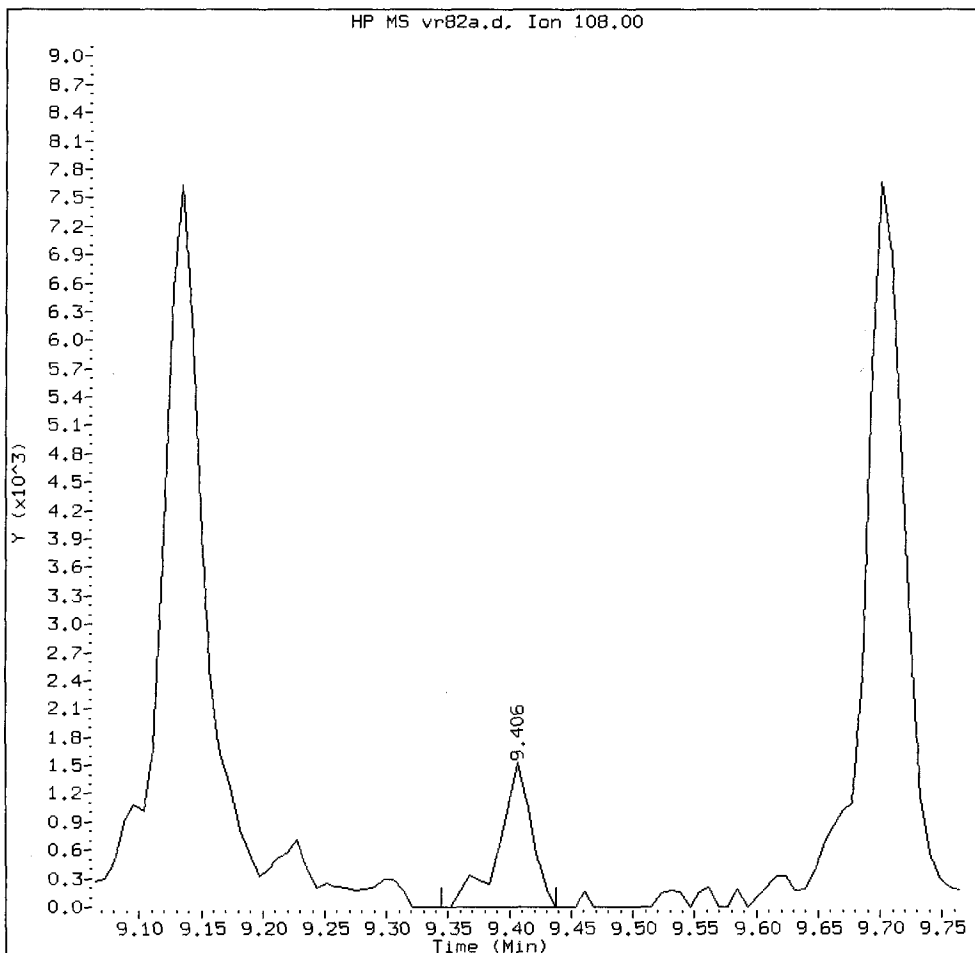
Compound: 2-Methylphenol
CAS Number: 95-48-7



VR82: 00417

VR82A, /chem1/nt10.i/20121205.b/vr82a.d

2-Methylphenol Amount: 0.08 Area: 2873



MANUAL INTEGRATION for 2-Methylphenol

1. Baseline correction
2. Poor chromatography
- ③ Peak not found
4. Totals calculation

5. Other _____

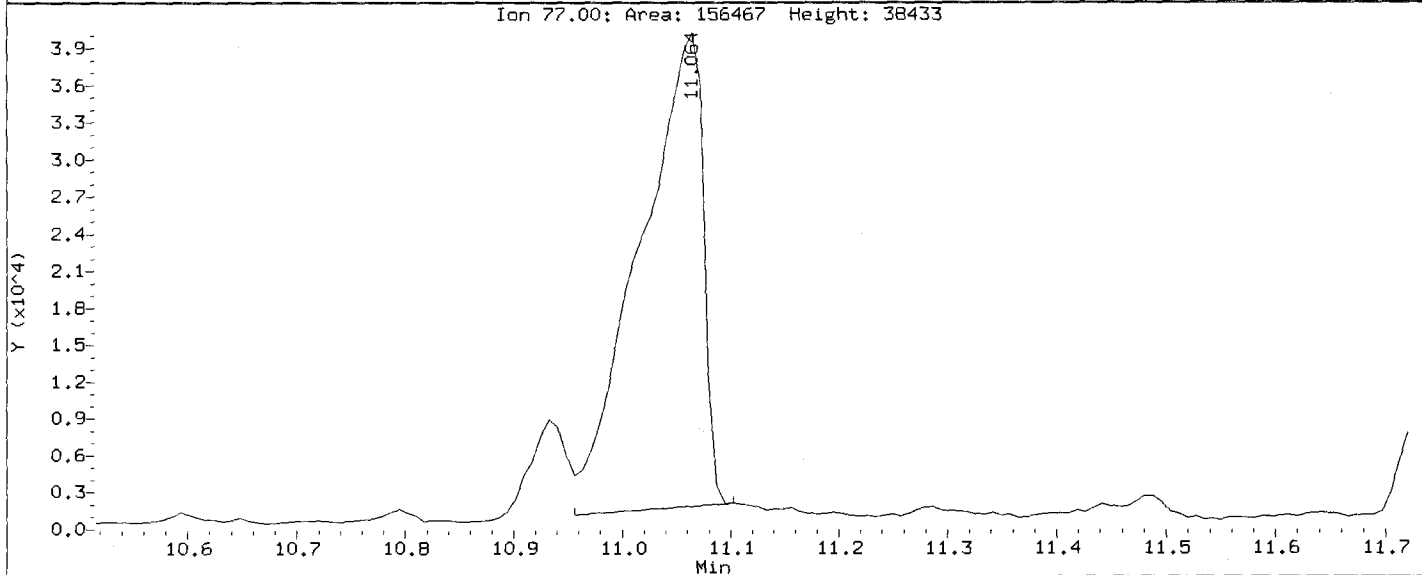
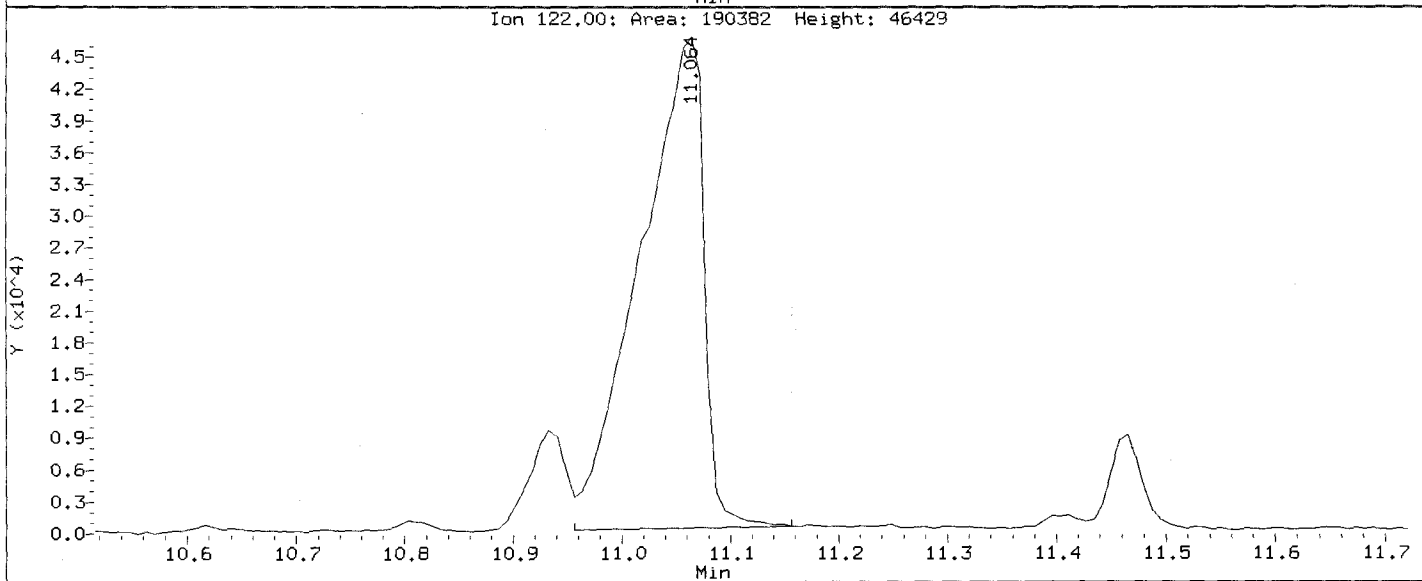
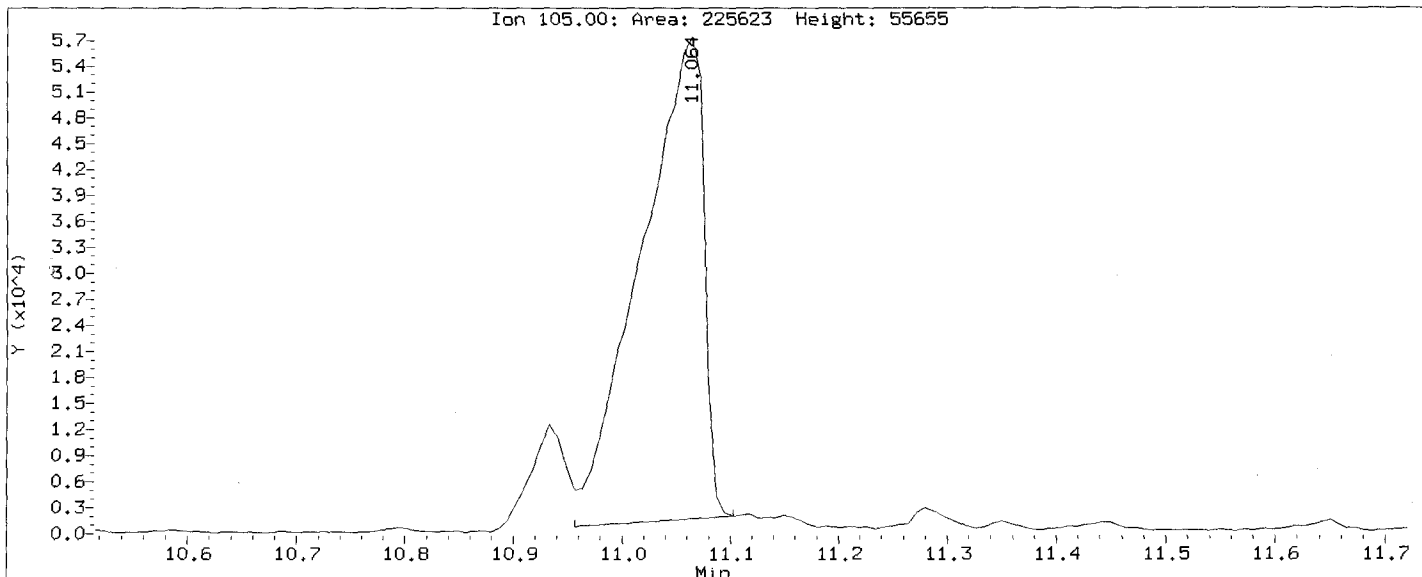
Analyst: VD

Date: 12-6-12

VD
12.6.12

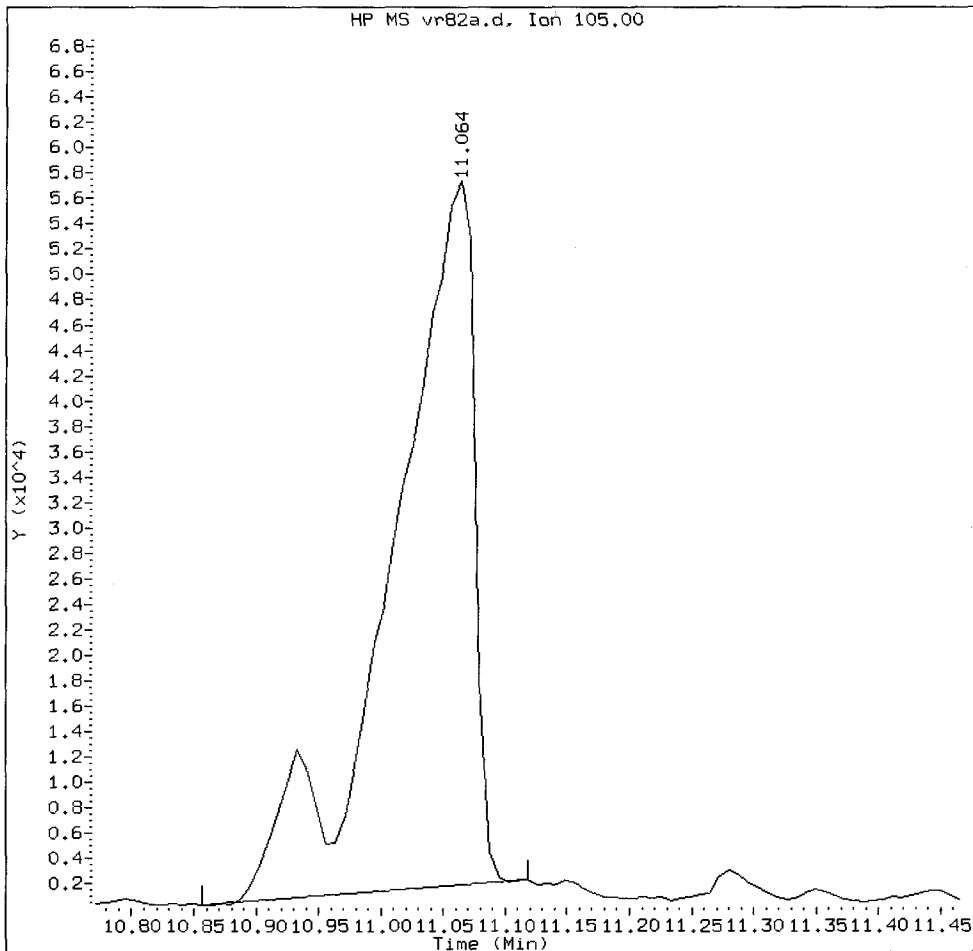
Data File: /chem1/nt10.1/20121205.b/vr82a.d
Injection Date: 05-DEC-2012 14:00
Instrument: nt10.1
Client Sample ID: S6-02-S-C-121108

Compound: Benzoic acid
CAS Number: 65-85-0



VR82A, /chem1/nt10.i/20121205.b/vr82a.d

Benzoic acid Amount: 9.93 Area: 256230



MANUAL INTEGRATION for Benzoic acid

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

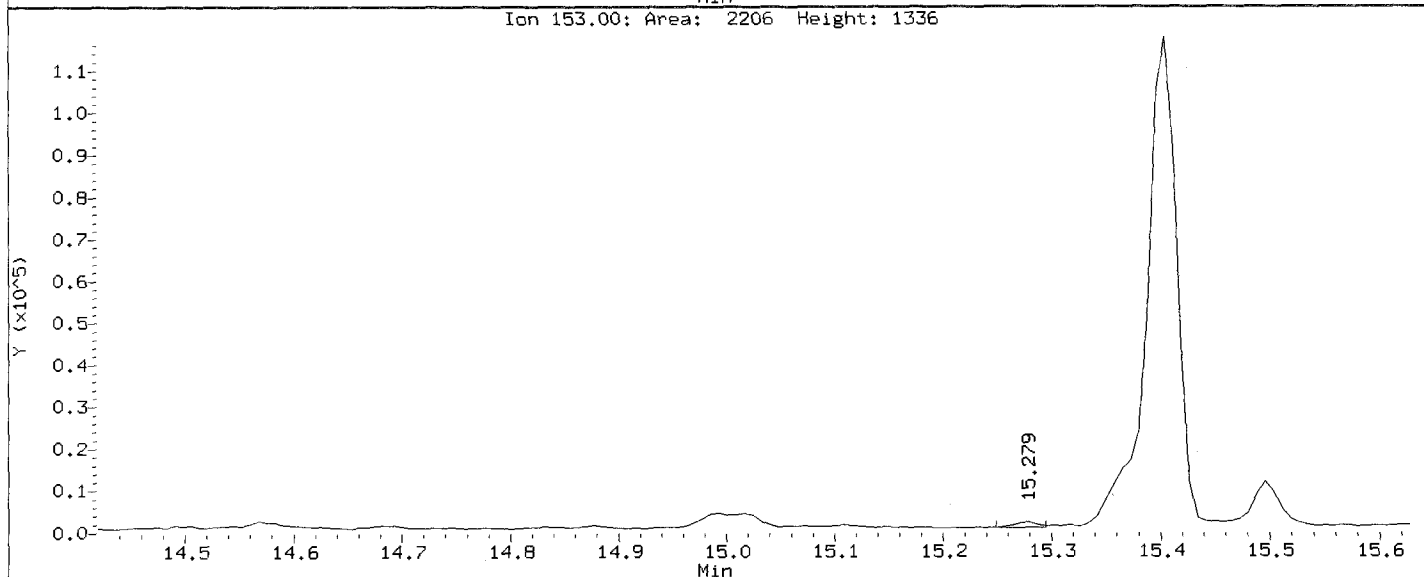
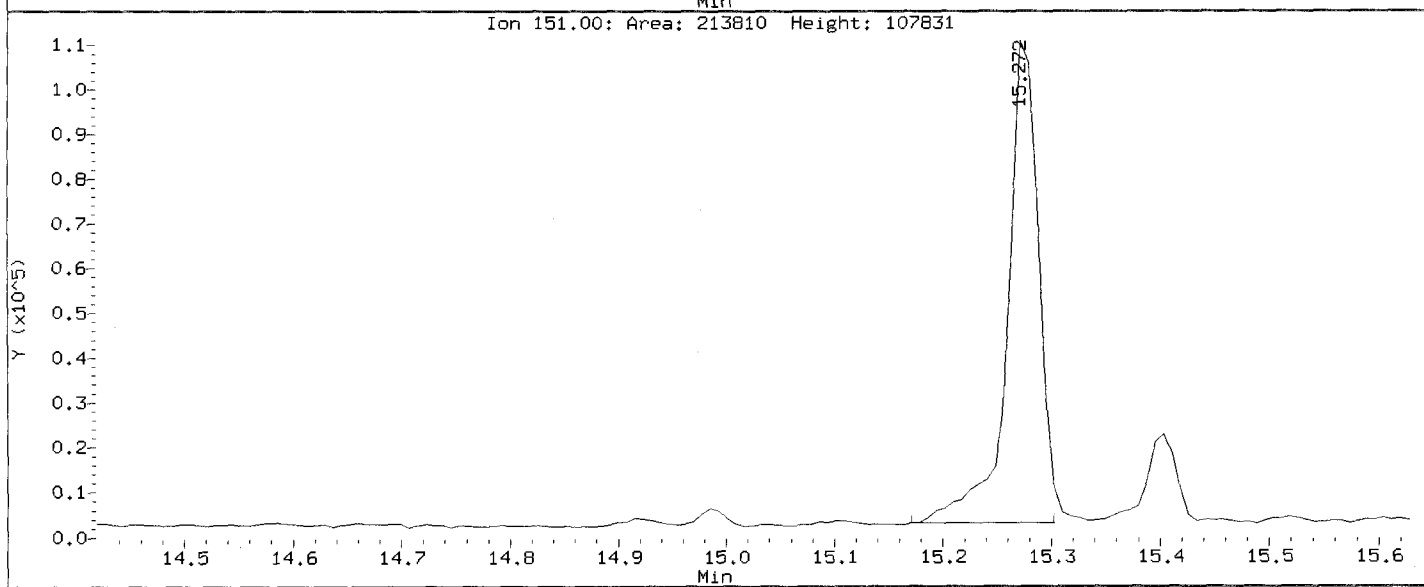
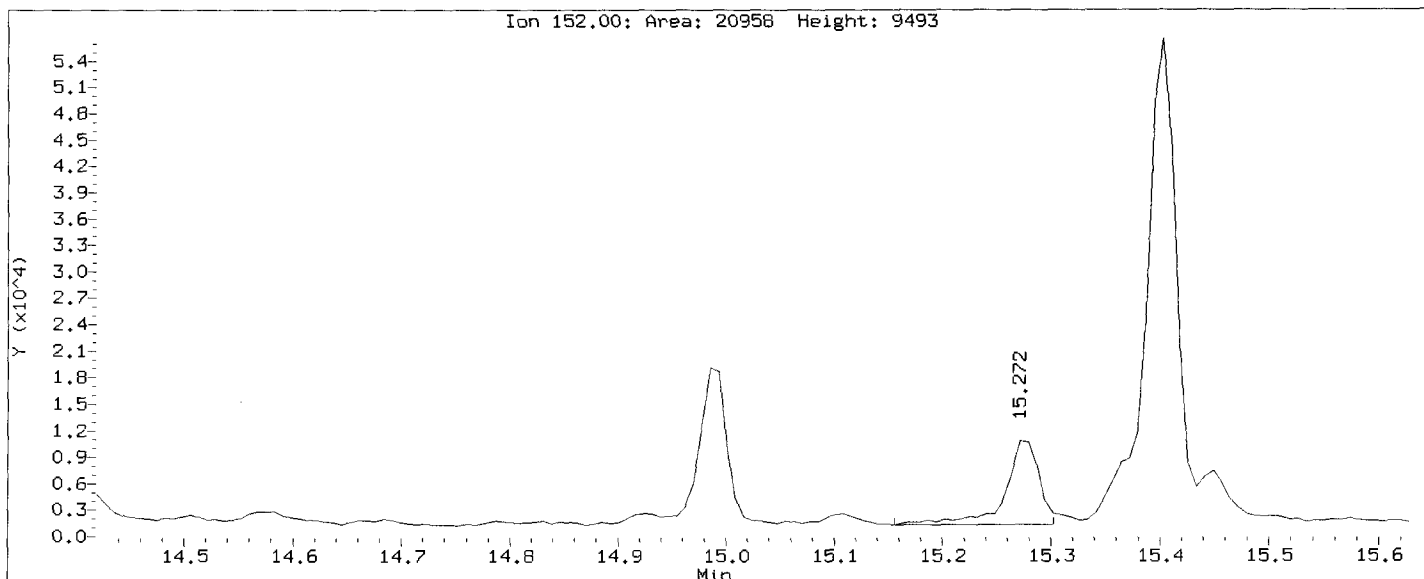
Analyst: VID

Date: 12.6.12

VD
12.6.11

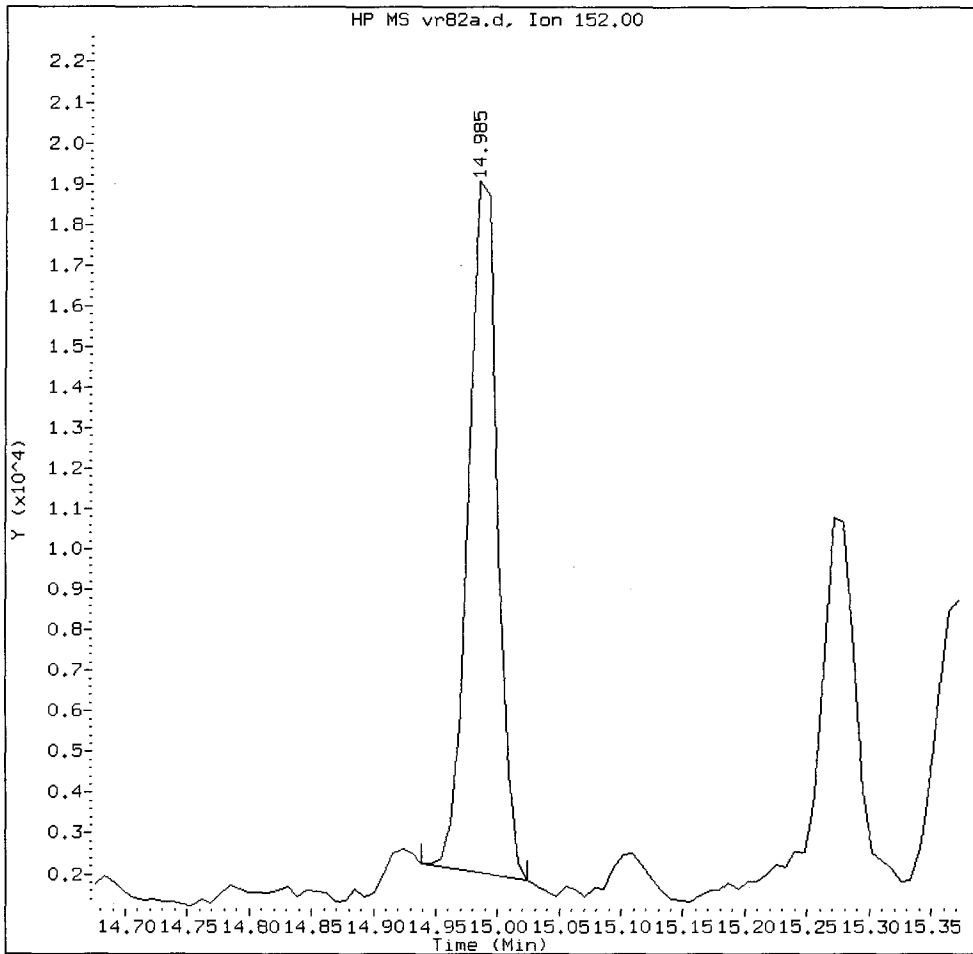
Data File: /chem1/nt10.i/20121205.b/vr82a.d
Injection Date: 05-DEC-2012 14:00
Instrument: nt10.i
Client Sample ID: 56-02-S-C-121108

Compound: Acenaphthylene
CAS Number: 208-96-8



VR82A, /chem1/nt10.i/20121205.b/vr82a.d

Acenaphthylene Amount: 0.23 Area: 28737



MANUAL INTEGRATION for Acenaphthylene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

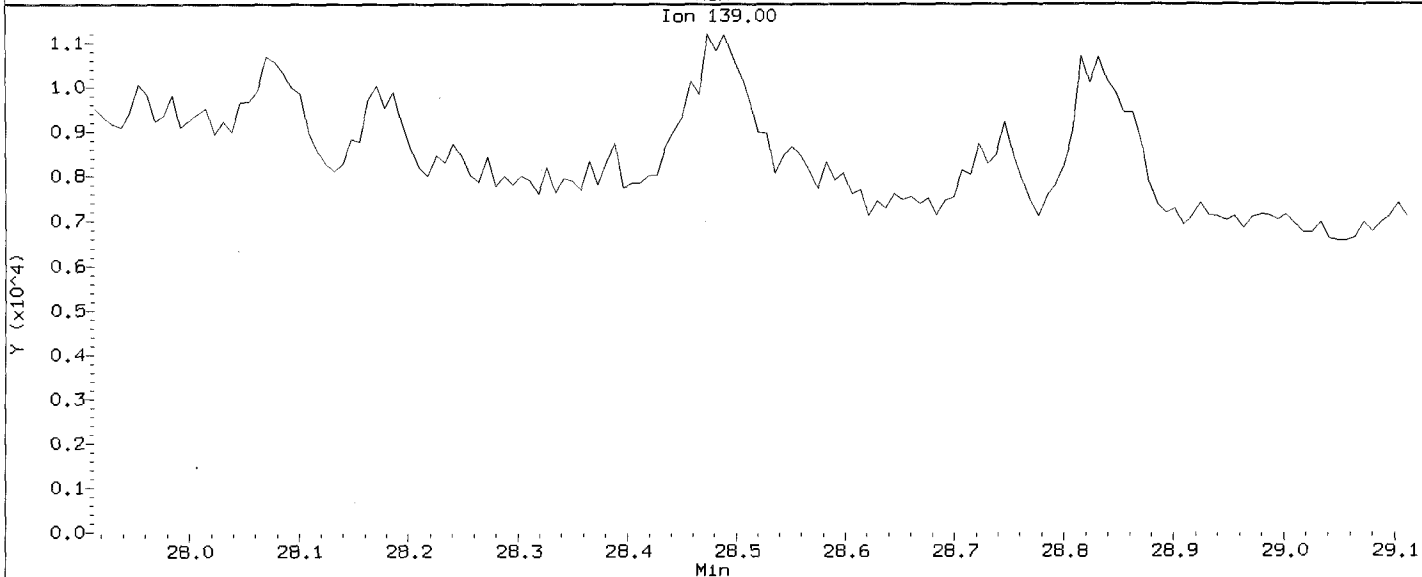
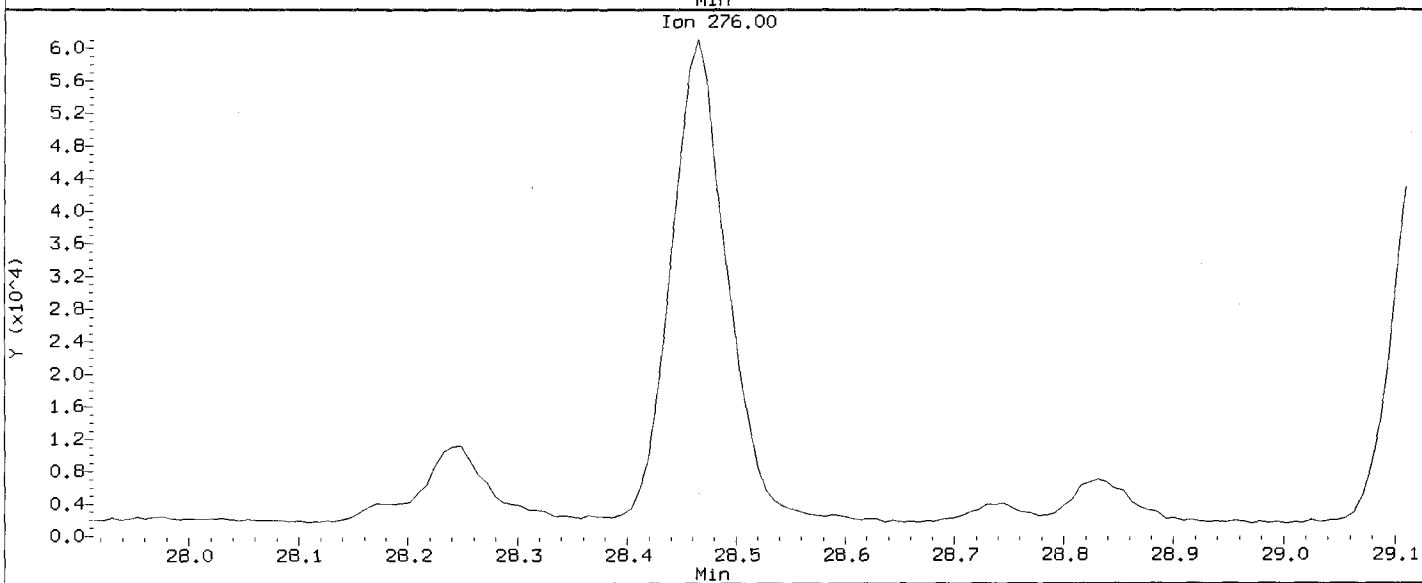
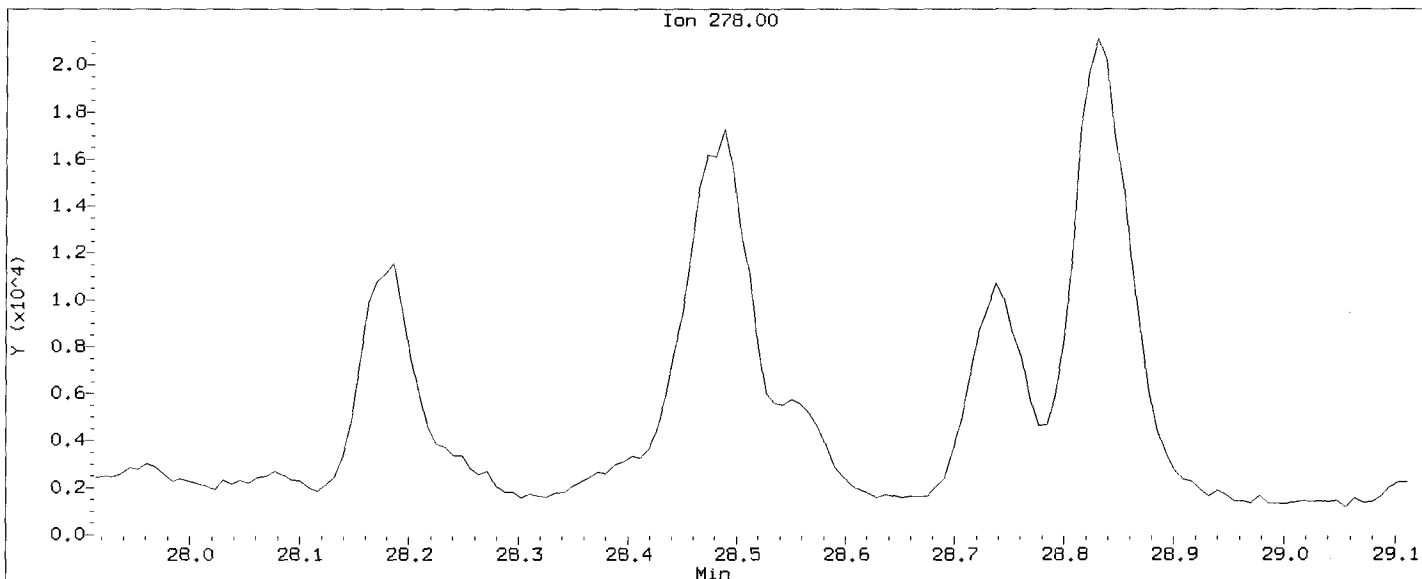
Analyst: VD

Date: 12.6.12

VP
12-6-12

Data File: /chem1/nt10.1/20121205.b/vr82a.d
Injection Date: 05-DEC-2012 14:00
Instrument: nt10.1
Client Sample ID: SG-02-S-C-121108

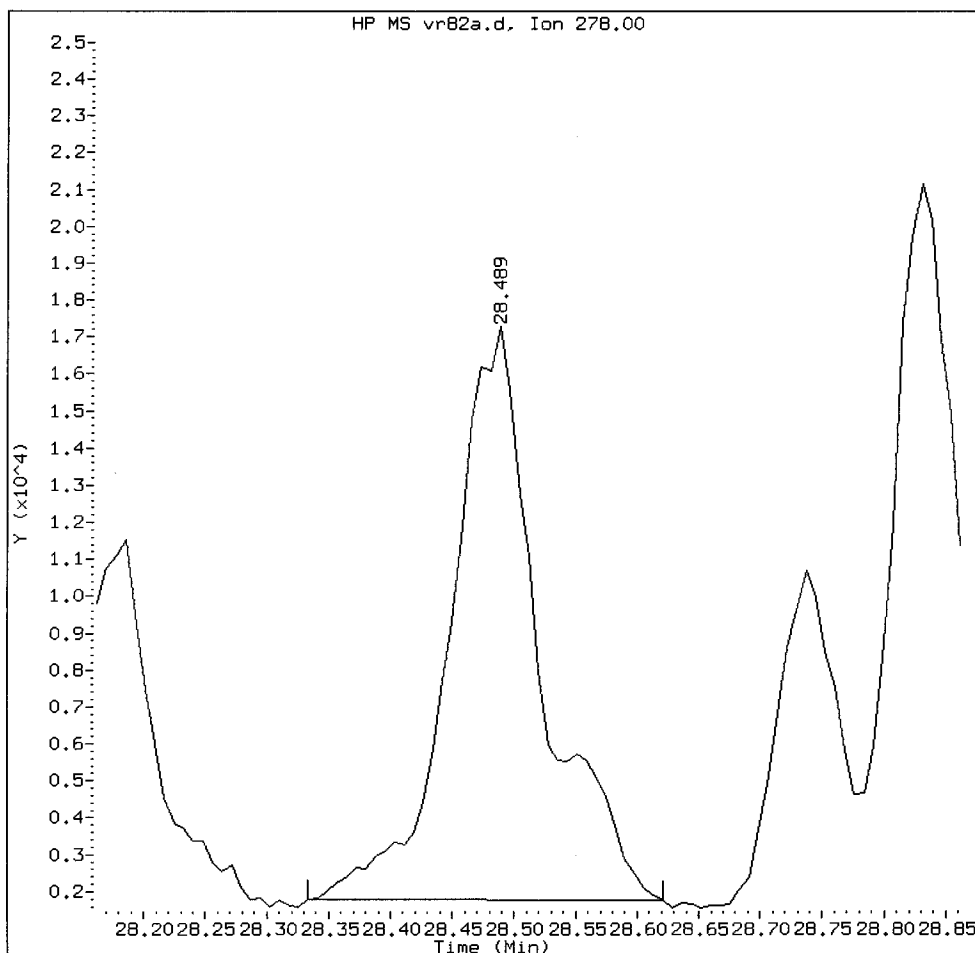
Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



VR82: 00423

VR82A, /chem1/nt10.i/20121205.b/vr82a.d

Dibenzo(a,h)anthracene Amount: 0.69 Area: 79529



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- ③ Peak not found
- 4. Totals calculation

5. Other _____

Analyst: VT

Date: 12.6.12

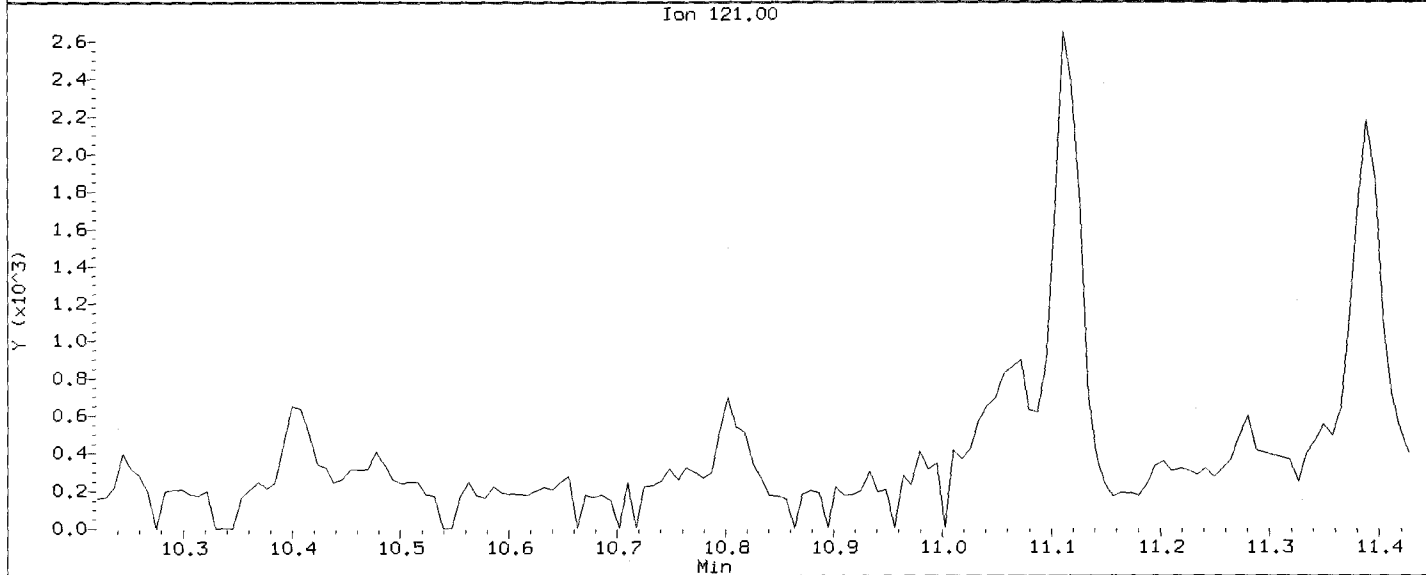
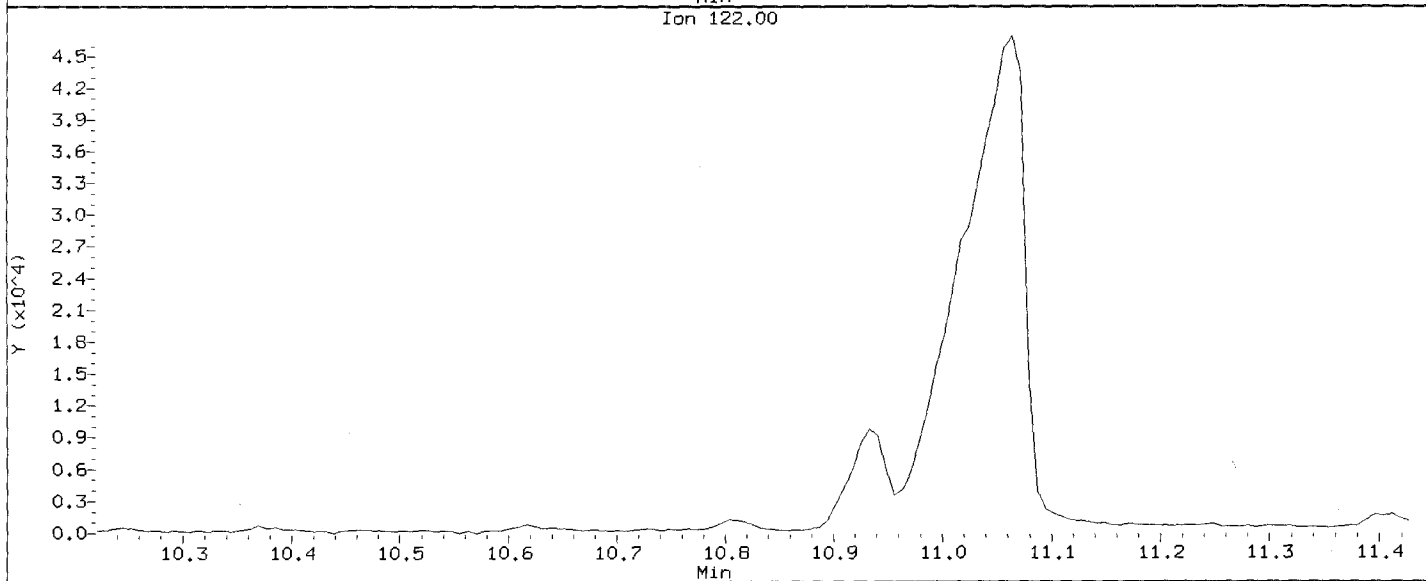
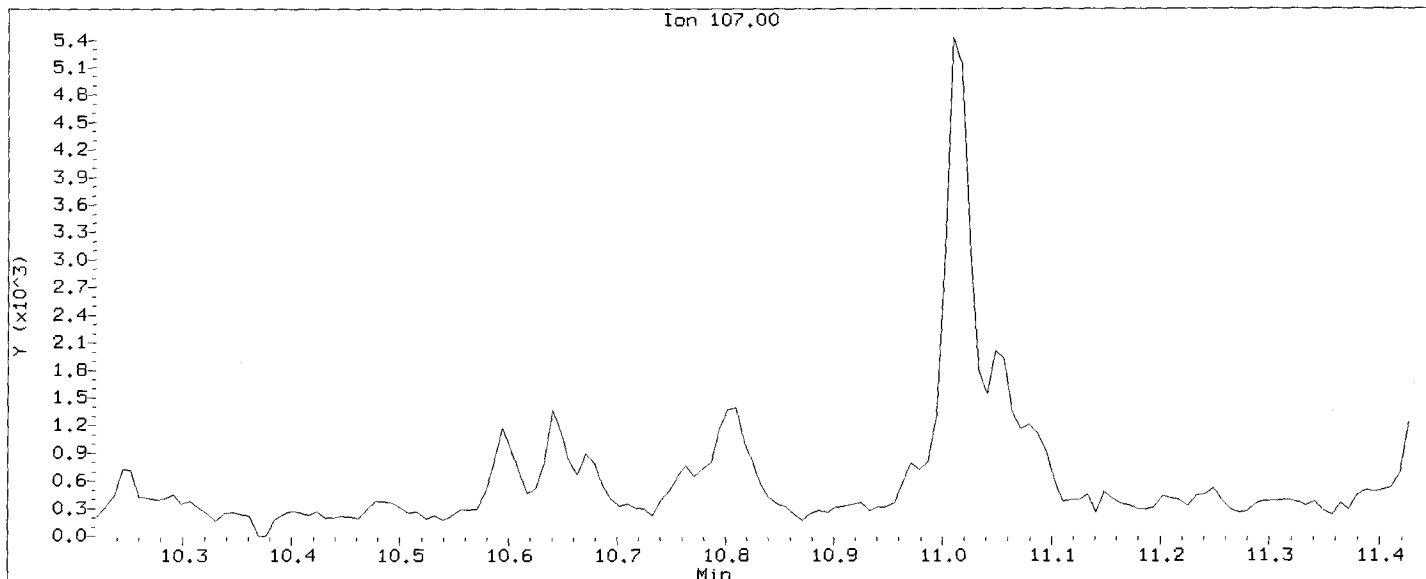
CO-ELUTION SUMMARY FOR FILE - vr82a.d

Lab ID: VR82A, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82a.d
Injection Date: 05-DEC-2012 14:00
Instrument: nt10.i
Client Sample ID: SG-02-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82b.d
 Lab Smp Id: VR82B Client Smp ID: SG-03-S-C-121108
 Inj Date : 05-DEC-2012 14:36
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82B
 Misc Info : 12-22480
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	41.00000	Weight of sample extracted (g)
M	75.20000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.536	6.474	(0.743)	188041	4.98733	490.5	
\$ 2 Phenol-d5	99	8.228	8.205	(0.936)	244885	5.24890	516.2	
3 Phenol	94	8.251	8.228	(0.938)	56052	1.14048	112.2	
\$ 5 2-Chlorophenol-d4	132	8.437	8.429	(0.960)	209074	5.17934	509.4	
7 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 8 1,4-Dichlorobenzene-d4	152	8.793	8.808	(1.000)	117864	4.00000		
9 1,4-Dichlorobenzene	146	Compound Not Detected.						
\$ 10 1,2-Dichlorobenzene-d4	152	9.173	9.189	(1.043)	89723	3.04822	299.8	
12 1,2-Dichlorobenzene	146	Compound Not Detected.						
11 Benzyl alcohol	108	9.142	9.134	(1.040)	30978	1.33293	131.1	
13 2-Methylphenol	108	Compound Not Detected.						
17 Hexachloroethane	117	Compound Not Detected.						
15 4-Methylphenol	108	9.716	9.709	(1.105)	19270	0.76910	75.64	
\$ 18 Nitrobenzene-d5	82	9.972	9.988	(0.871)	133193	3.13491	308.3	
22 2,4-Dimethylphenol	107	Compound Not Detected.						

Compounds	QUANT SIG			CONCENTRATIONS		
	MASS	RT	EXP RT REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
24 Benzoic acid	105	11.102	11.118 (0.970)	364744	13.2364	1302 (M)
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.				
* 27 Naphthalene-d8	136	11.449	11.472 (1.000)	453422	4.00000	
28 Naphthalene	128	11.488	11.519 (1.003)	65226	0.59128	58.15
30 Hexachlorobutadiene	225	Compound Not Detected.				
32 2-Methylnaphthalene	142	12.988	13.027 (1.134)	20664	0.25142	24.73
\$ 36 2-Fluorobiphenyl	172	13.855	13.894 (0.904)	327810	3.65880	359.8
39 Dimethylphthalate	163	Compound Not Detected.				
40 Acenaphthylene	152	14.993	15.024 (0.978)	19018	0.15895	15.63 (M)
* 42 Acenaphthene-d10	164	15.333	15.372 (1.000)	253139	4.00000	
44 Acenaphthene	153	15.403	15.441 (1.005)	23410	0.34231	33.67
46 Dibenzofuran	168	15.758	15.797 (1.028)	36801	0.36259	35.66
50 Diethylphthalate	149	16.446	16.493 (1.073)	33166	0.38747	38.11
49 Fluorene	166	16.531	16.570 (1.078)	39291	0.46662	45.89
54 N-Nitrosodiphenylamine	169	Compound Not Detected.				
\$ 55 2,4,6-Tribromophenol	330	17.118	17.156 (1.116)	88286	5.92076	582.3
57 Hexachlorobenzene	284	Compound Not Detected.				
58 Pentachlorophenol	266	Compound Not Detected.				
* 59 Phenanthrene-d10	188	18.617	18.656 (1.000)	432994	4.00000	
60 Phenanthrene	178	18.663	18.702 (1.002)	208566	1.94543	191.3
61 Anthracene	178	18.764	18.803 (1.008)	79096	0.68639	67.50
63 Di-n-butylphthalate	149	20.025	20.056 (1.076)	14279	0.10474	10.30
64 Fluoranthene	202	21.147	21.139 (1.136)	569169	4.21198	414.2
65 Pyrene	202	21.549	21.565 (0.907)	617178	4.46589	439.2
\$ 66 Terphenyl-d14	244	21.866	21.898 (0.921)	362051	3.91924	385.4
67 Butylbenzylphthalate	149	22.827	22.858 (0.961)	18306	0.32609	32.07
68 Benzo(a)anthracene	228	23.717	23.748 (0.999)	260201	1.94069	190.9
* 69 Chrysene-d12	240	23.748	23.771 (1.000)	471733	4.00000	
71 Chrysene	228	23.794	23.818 (1.002)	409181	3.43527	337.9
72 bis(2-Ethylhexyl)phthalate	149	23.880	23.918 (0.960)	445229	5.16634	508.1
* 134 Di-n-octylphthalate-d4	153	24.870	24.902 (1.000)	624583	4.00000	
73 Di-n-octylphthalate	149	24.878	24.909 (1.000)	83769	0.59165	58.19 M
76 Benzo(a)pyrene	252	26.086	26.102 (0.996)	208905	1.58374	155.8
* 77 Perylene-d12	264	26.187	26.210 (1.000)	462197	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.473	28.489 (1.087)	167741	1.12207	110.4
79 Dibenzo(a,h)anthracene	278	28.488	28.512 (1.088)	66451	0.56013	55.09 (M)
80 Benzo(g,h,i)perylene	276	29.133	29.149 (1.113)	172944	1.35176	132.9
105 1-methylnaphthalene	142	13.228	13.259 (1.155)	7901	0.10474	10.30
187 Total Benzofluoranthenes	252	25.521	25.575 (0.975)	589502	4.33411	426.3
98 Retene	219	22.161	22.215 (0.933)	52445		
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.				

QC Flag Legend

M - Compound response manually integrated.

Handwritten: 12-6-12

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82b.d
 Lab Smp Id: VR82B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22480

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-03-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	117864	44.49
27 Naphthalene-d8	299399	149700	598798	453422	51.44
42 Acenaphthene-d10	178564	89282	357128	253139	41.76
59 Phenanthrene-d10	305410	152705	610820	432994	41.77
69 Chrysene-d12	323853	161926	647706	471733	45.66
134 Di-n-octylphthala	427845	213922	855690	624583	45.98
77 Perylene-d12	305316	152658	610632	462197	51.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.18
27 Naphthalene-d8	11.47	10.97	11.97	11.45	-0.20
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.25
59 Phenanthrene-d10	18.66	18.16	19.16	18.62	-0.21
69 Chrysene-d12	23.77	23.27	24.27	23.75	-0.10
134 Di-n-octylphthala	24.90	24.40	25.40	24.87	-0.13
77 Perylene-d12	26.21	25.71	26.71	26.19	-0.09

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.
Sample Matrix: SOLID
Lab Smp Id: VR82B
Level: LOW
Data Type: MS DATA
SpikeList File: SHORTPSDDA.spk
Sublist File: SHORTPSDDA.sub
Method File: /chem1/nt10.i/20121205.b/ABN.m
Misc Info: 12-22480

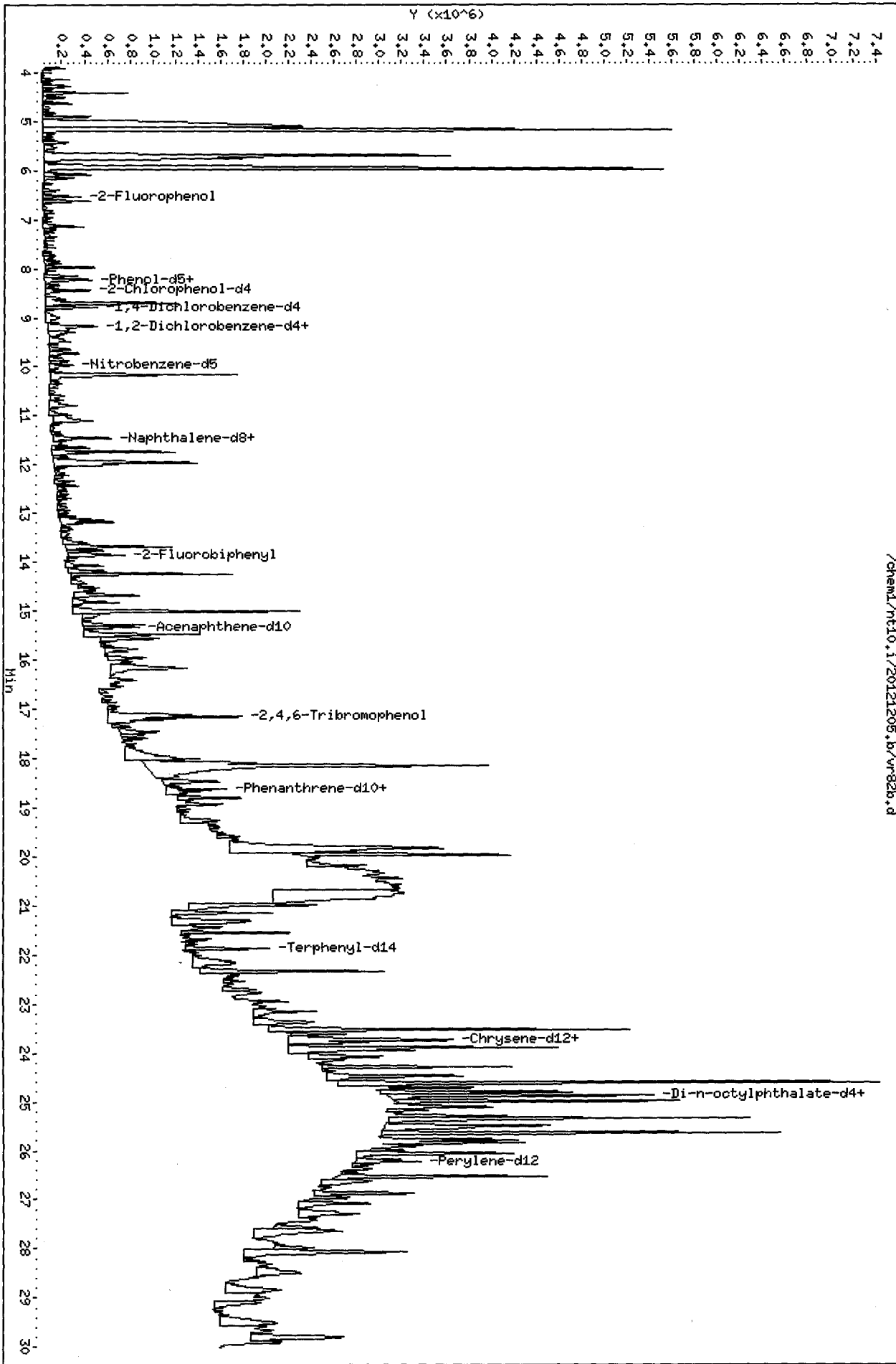
Client SDG: VR82
Fraction: SV
Client Smp ID: SG-03-S-C-121108
Operator: VTS/YZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	737.6	490.5	66.50	30-160
\$ 2 Phenol-d5	737.6	516.2	69.99	30-160
\$ 5 2-Chlorophenol-d4	737.6	509.4	69.06	30-160
\$ 10 1,2-Dichlorobenzen	491.7	299.8	60.96	30-160
\$ 18 Nitrobenzene-d5	491.7	308.3	62.70	30-160
\$ 36 2-Fluorobiphenyl	491.7	359.8	73.18	30-160
\$ 55 2,4,6-Tribromophen	737.6	582.3	78.94	30-160
\$ 66 Terphenyl-d14	491.7	385.4	78.38	30-160

Date : 05-DEC-2012 14:36
Client ID: SG-03-S-C-121108
Sample Info: VR82B
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: n110.i
Operator: VTS/YZ
Column diameter: 0.25

/chem1/n110.i/20121205.b/vr82b.d



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

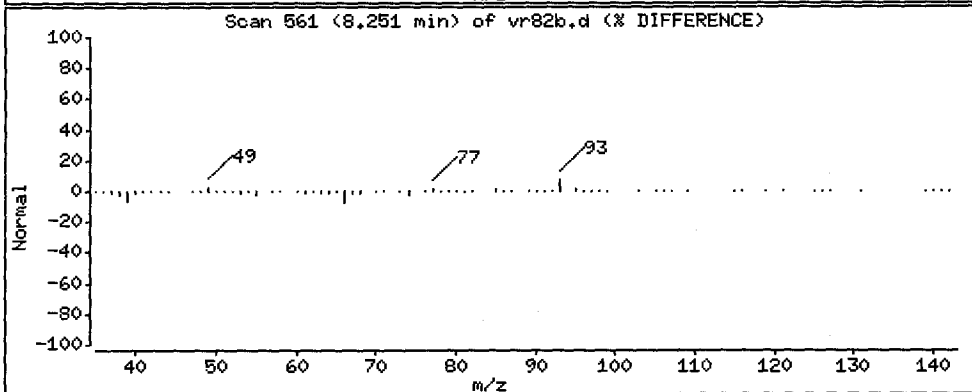
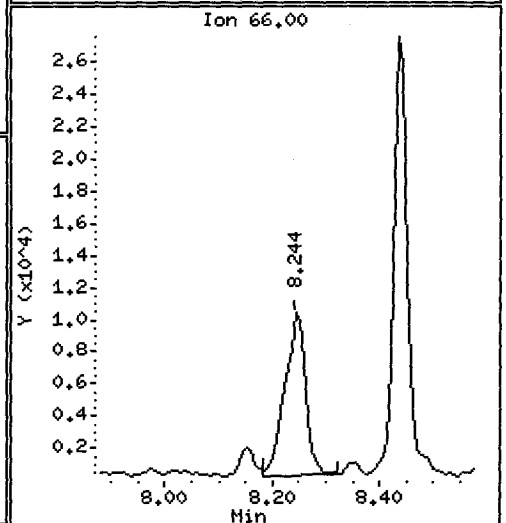
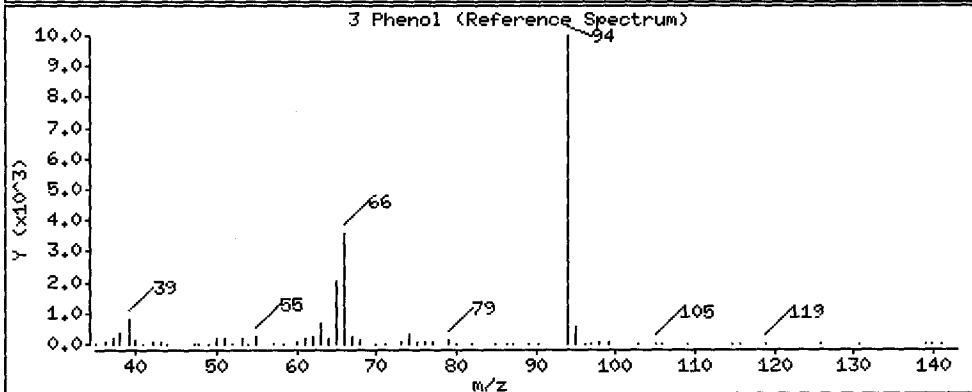
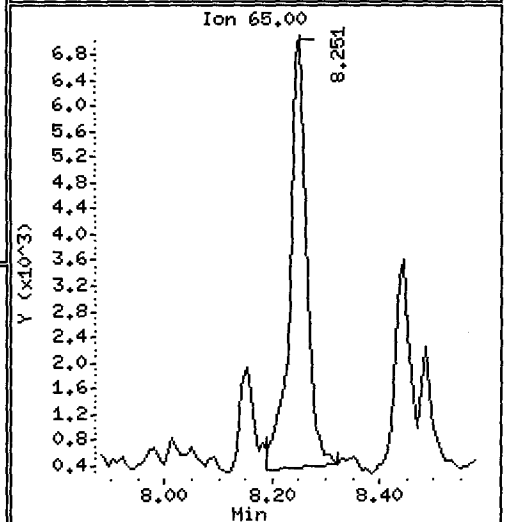
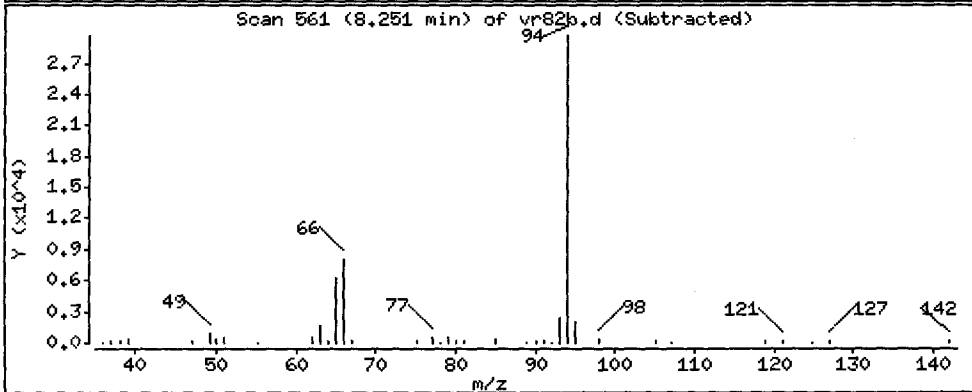
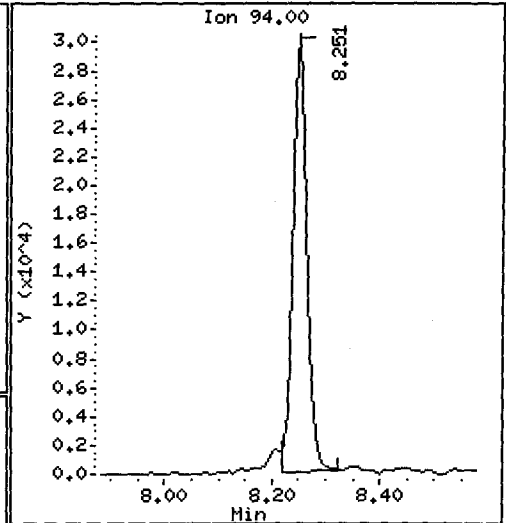
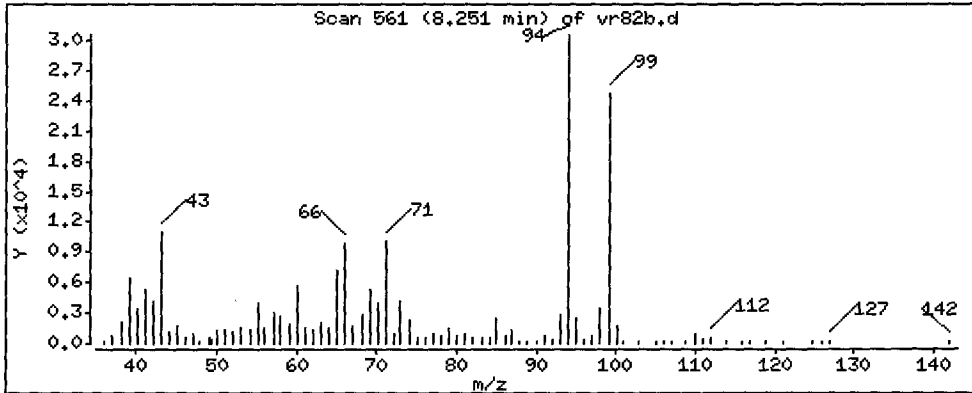
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 112.2 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

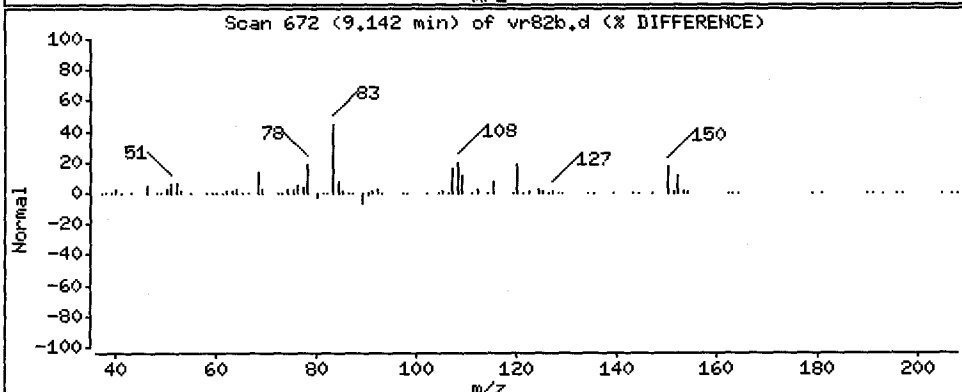
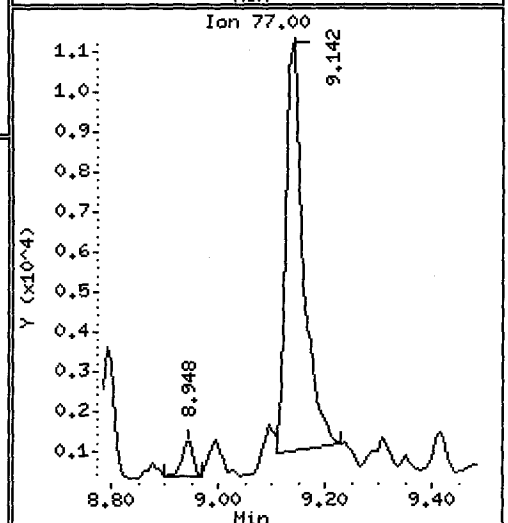
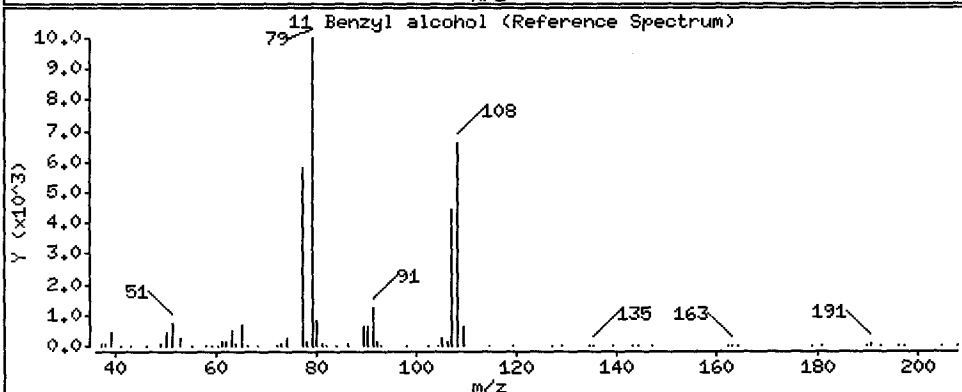
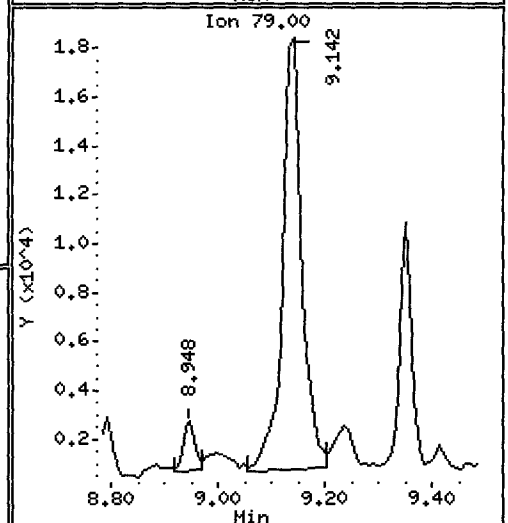
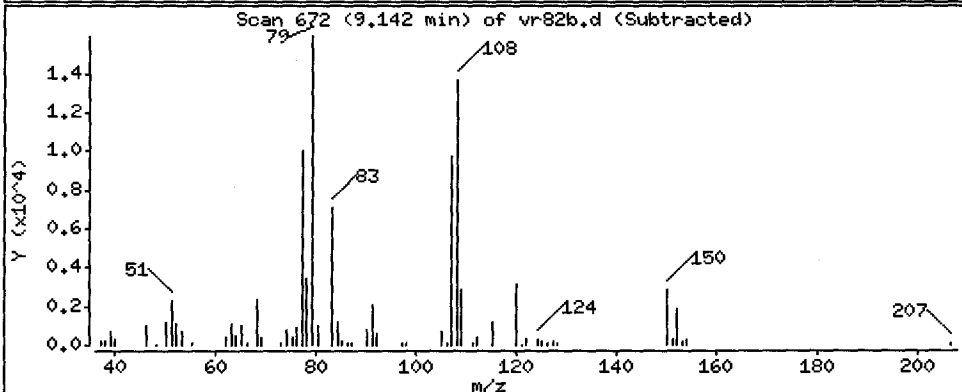
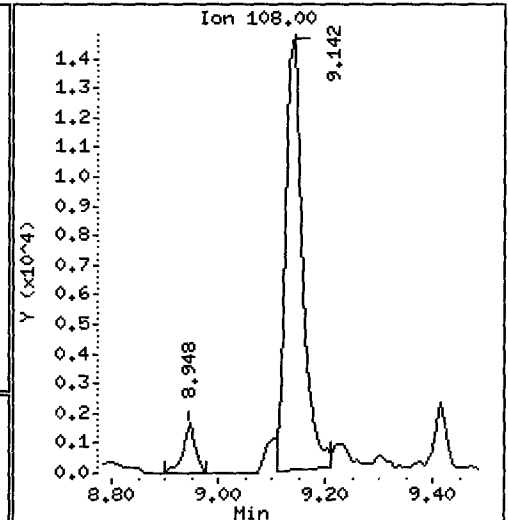
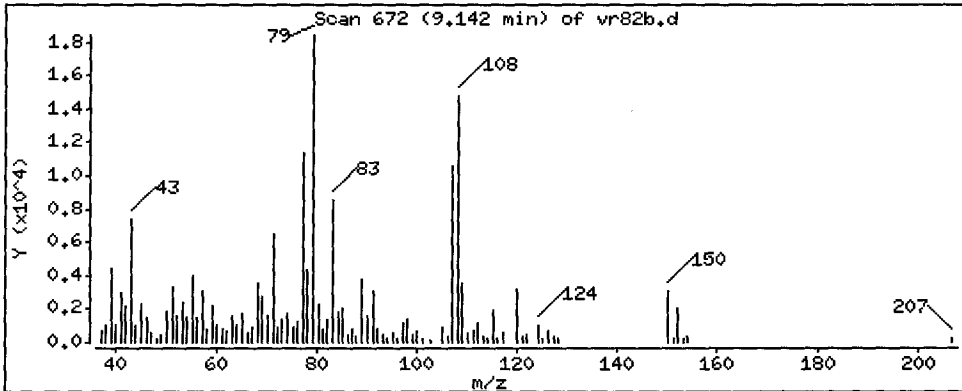
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 131.1 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

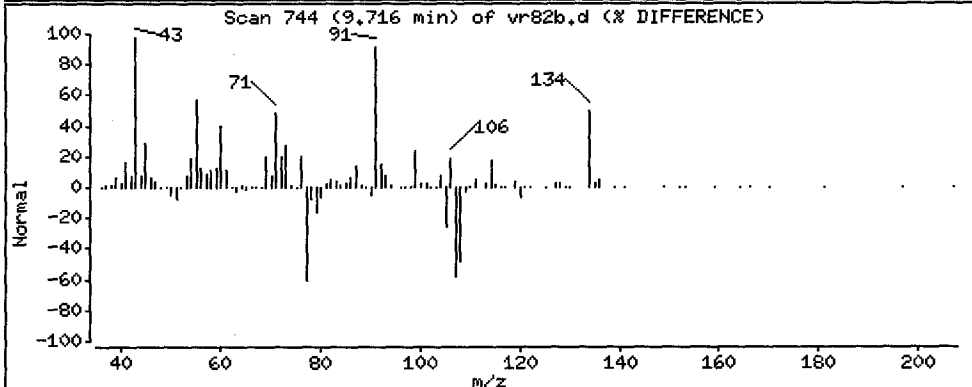
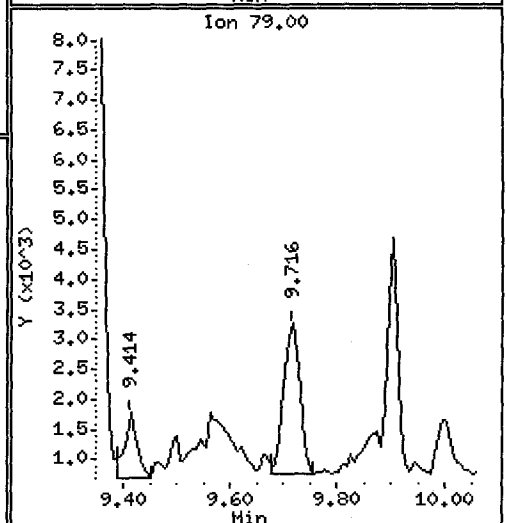
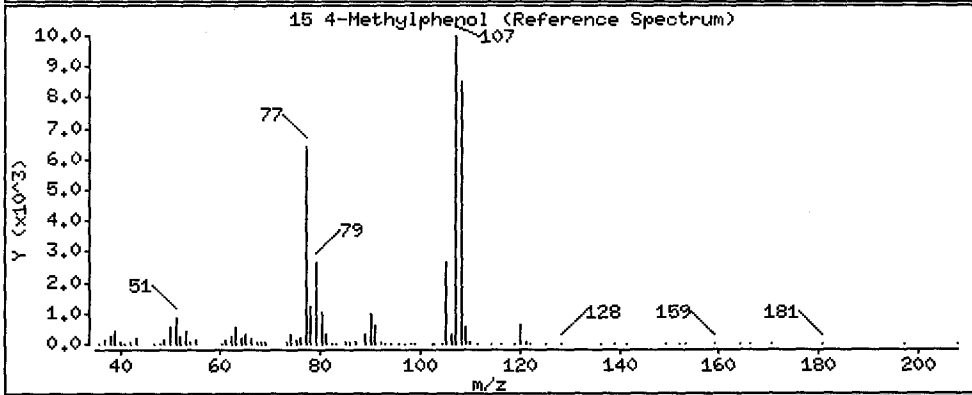
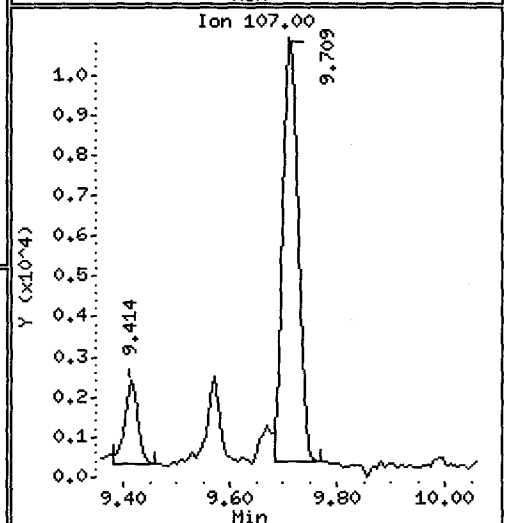
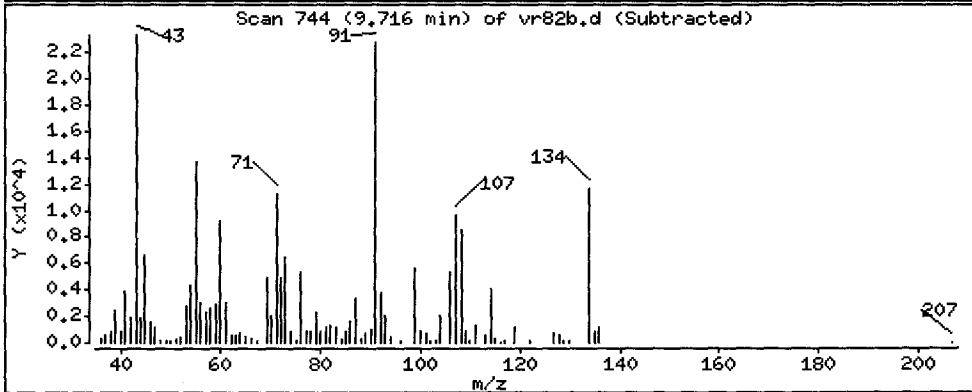
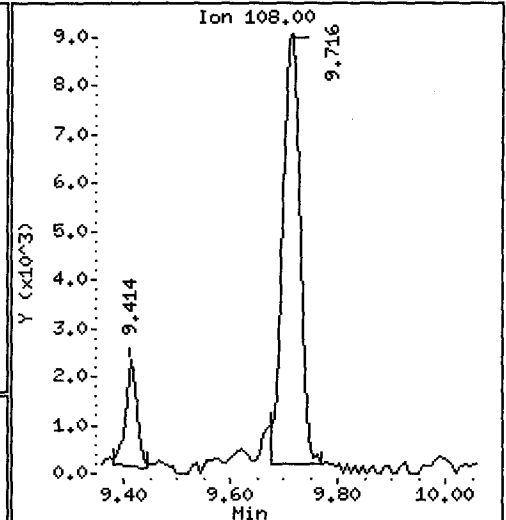
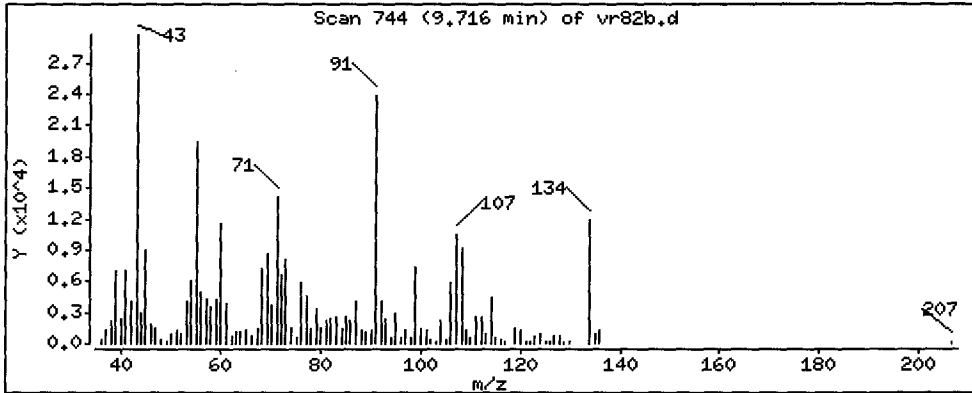
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 75.64 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

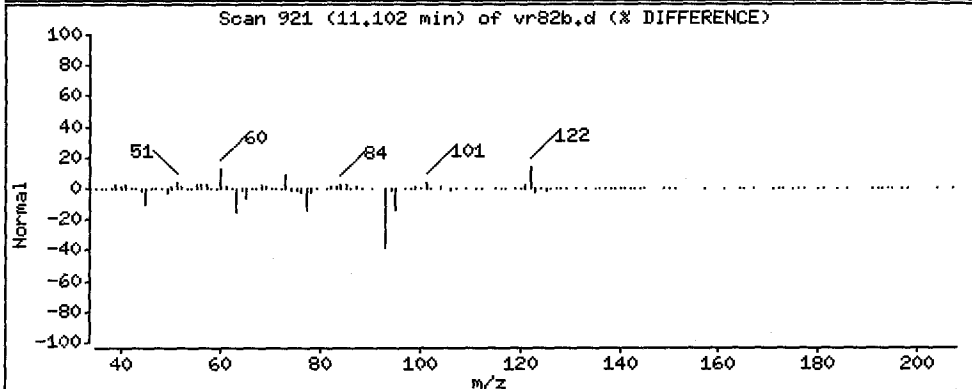
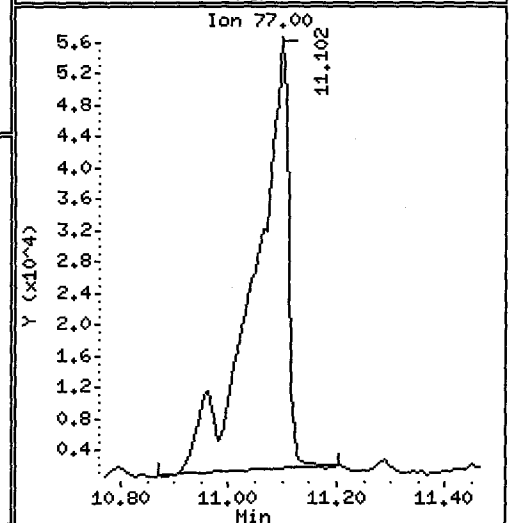
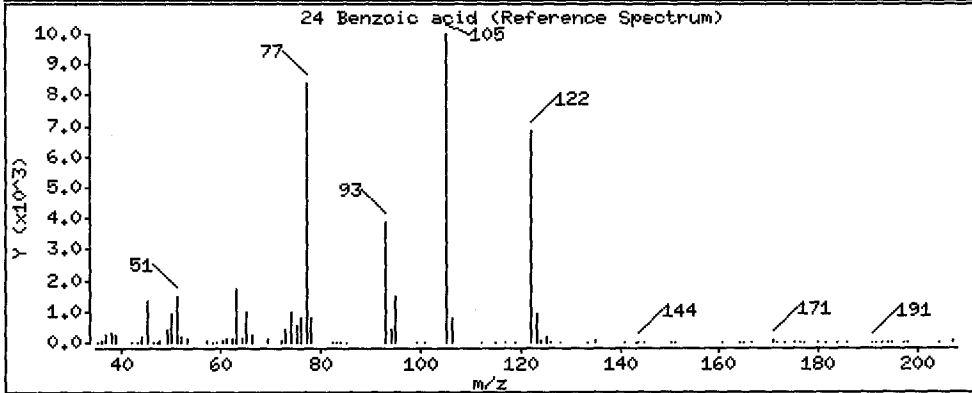
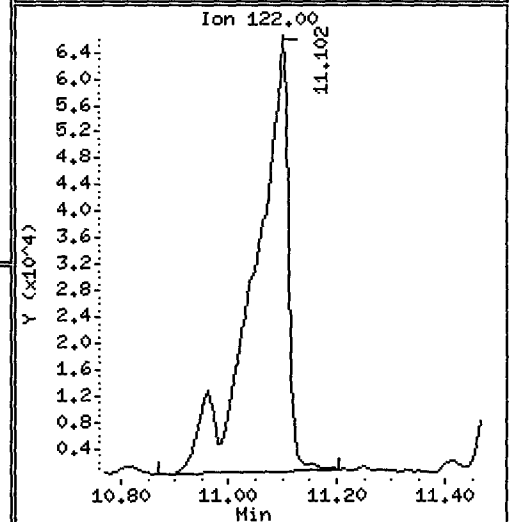
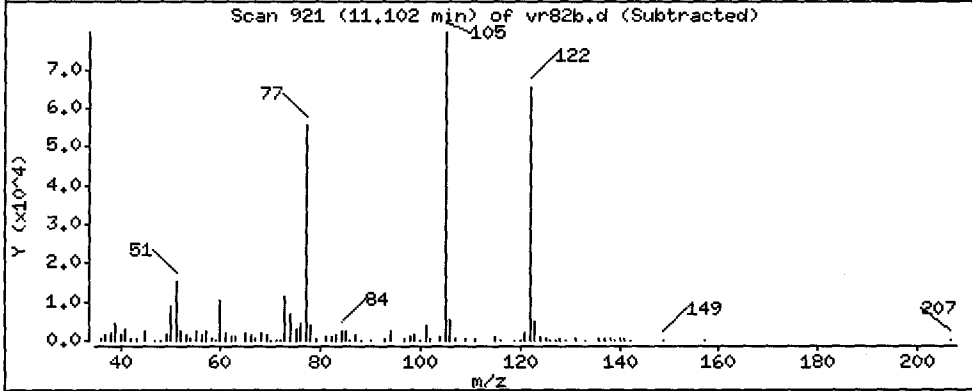
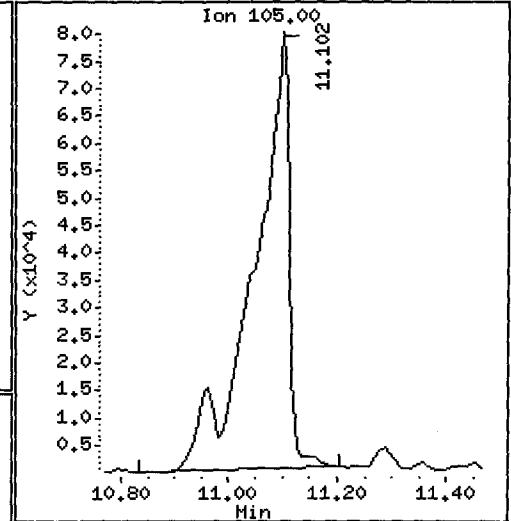
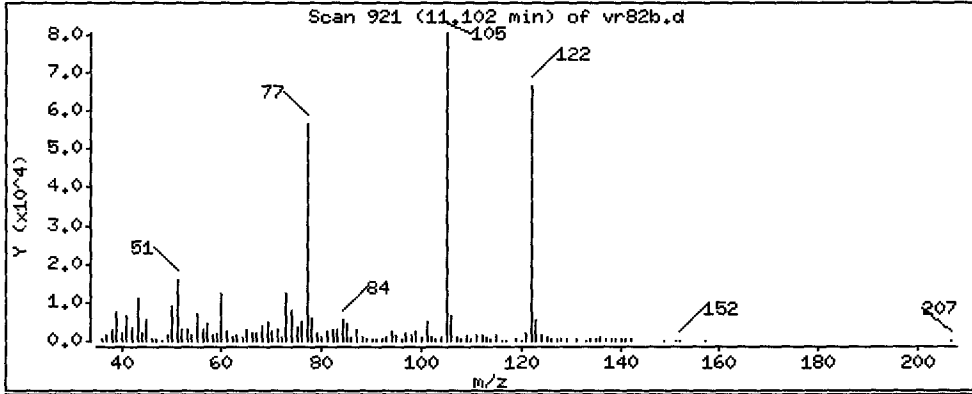
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1302 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

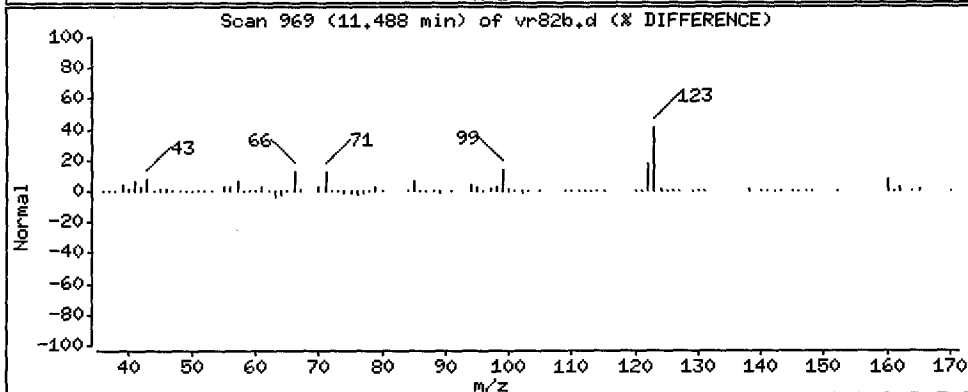
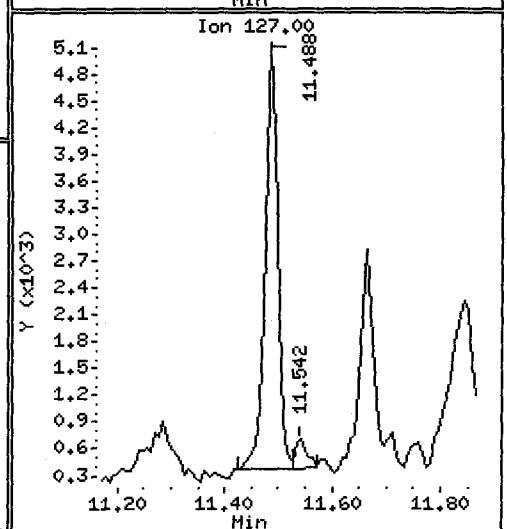
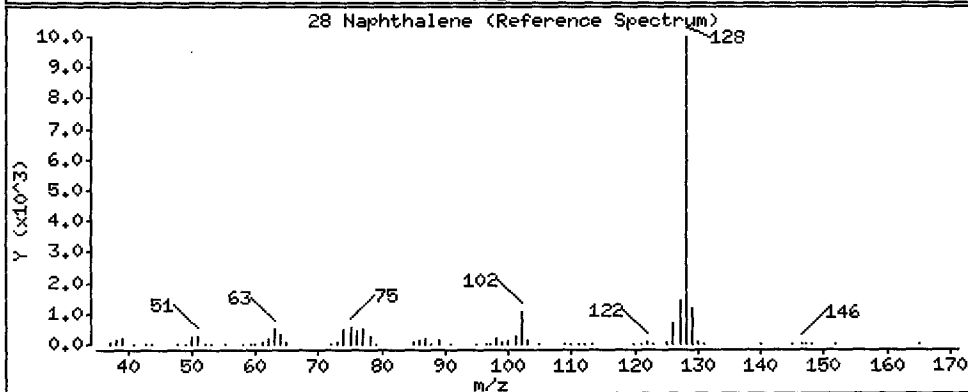
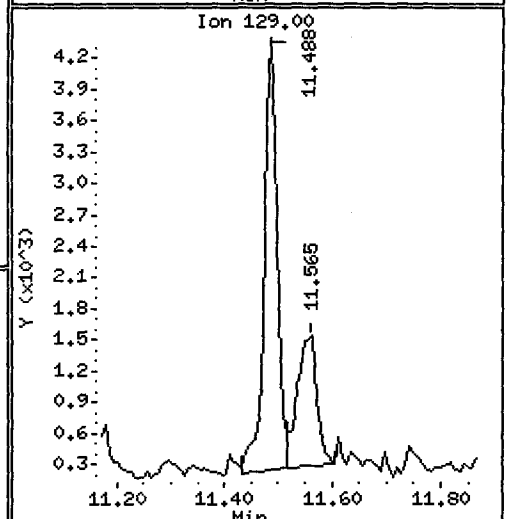
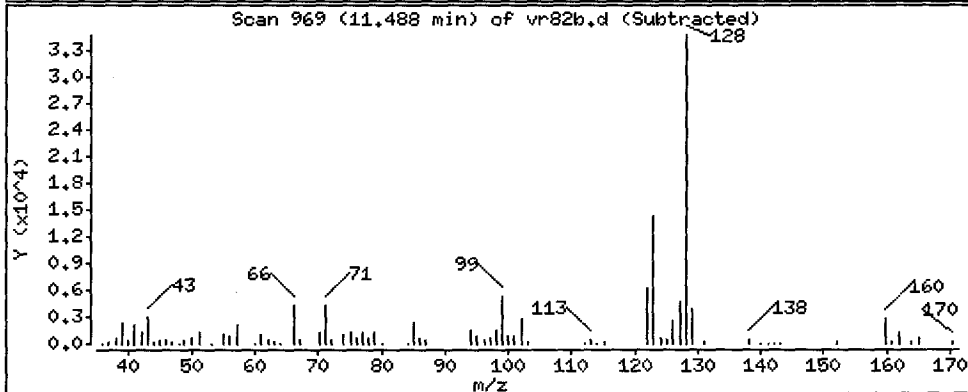
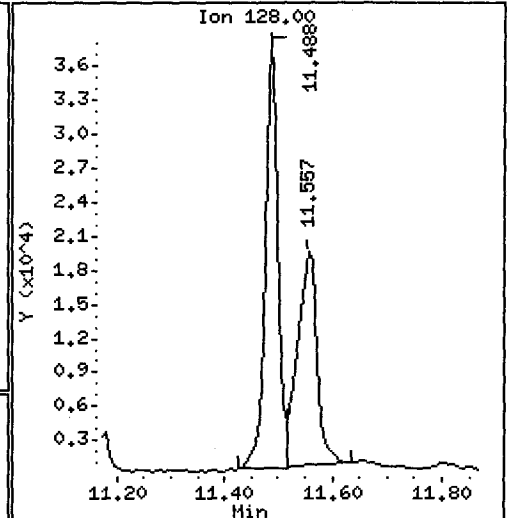
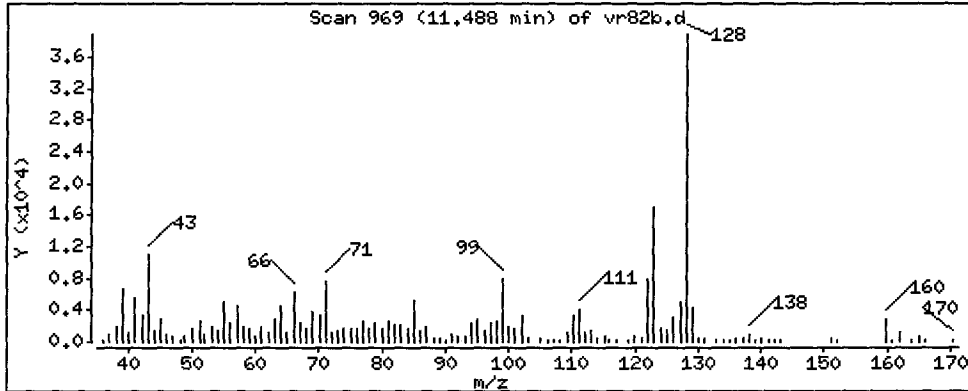
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 58.15 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

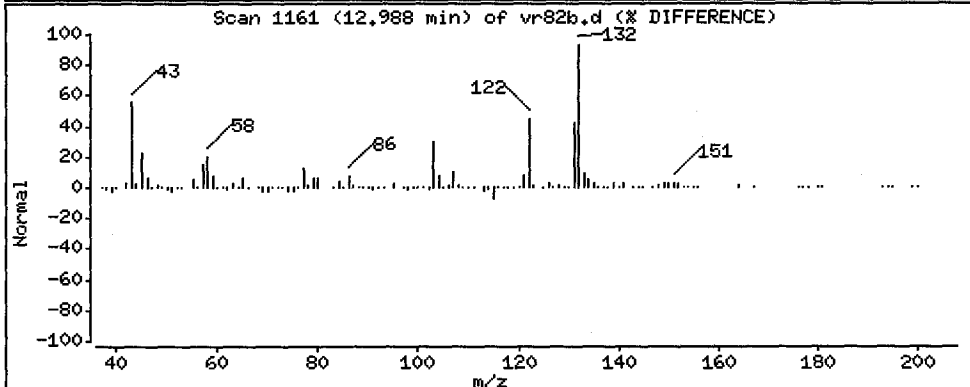
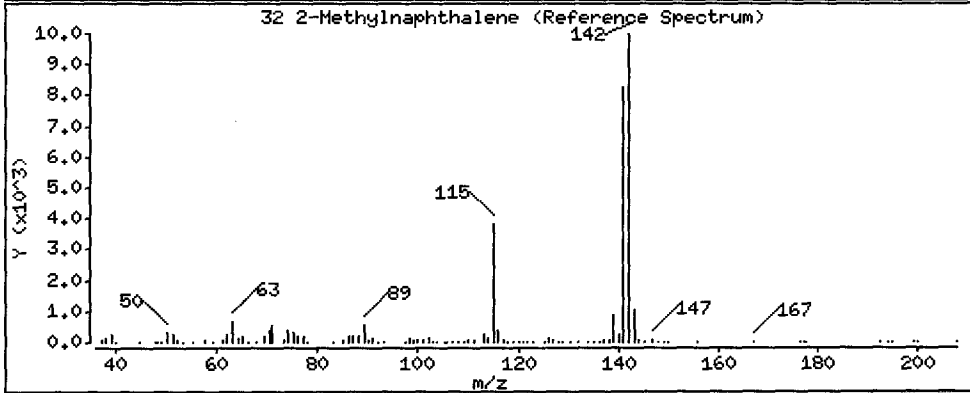
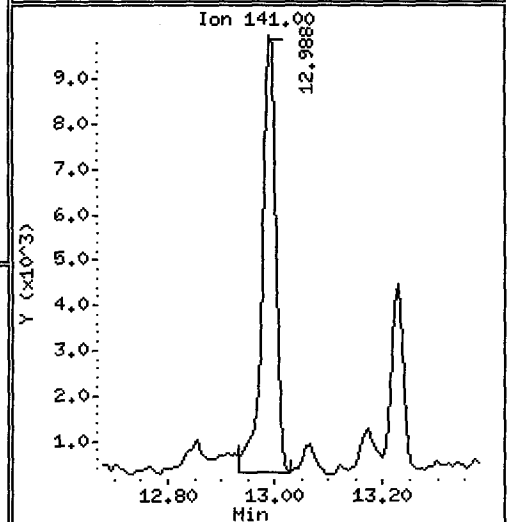
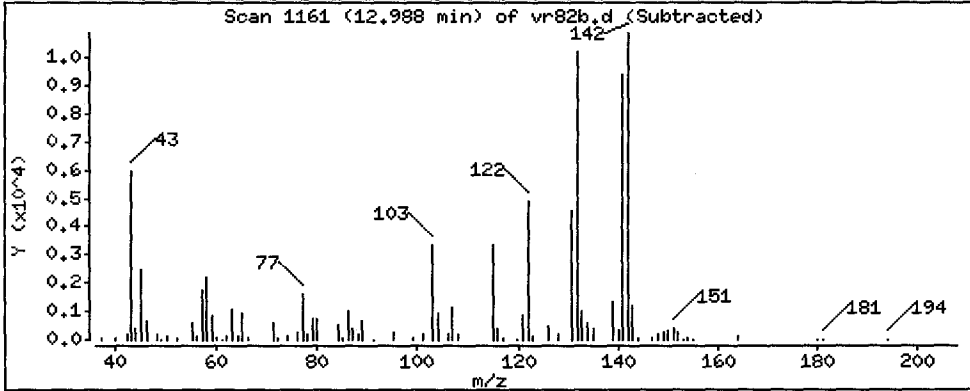
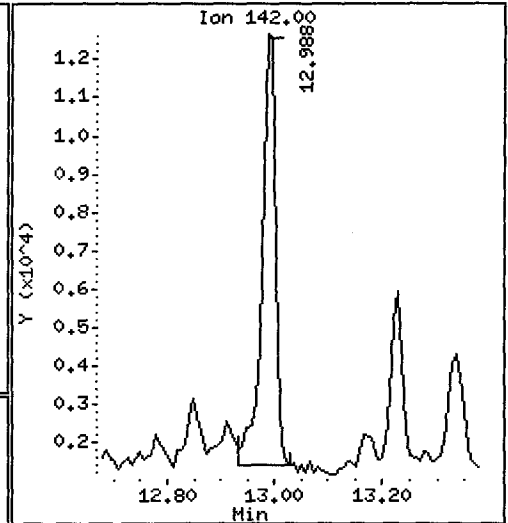
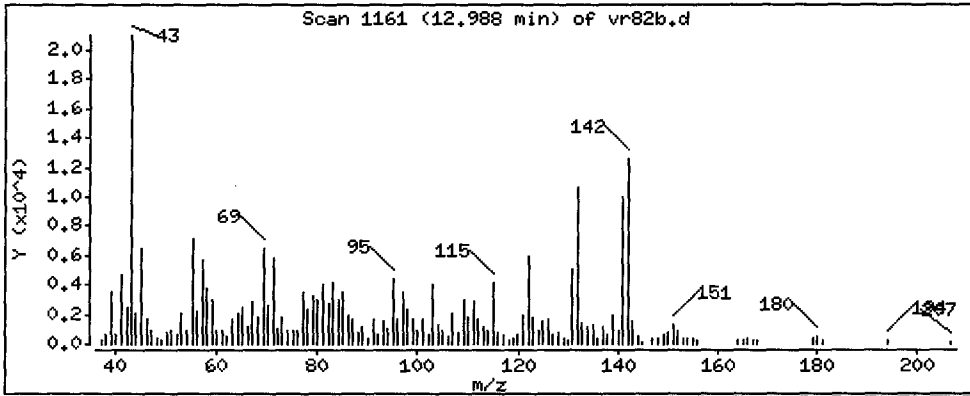
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 24.73 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

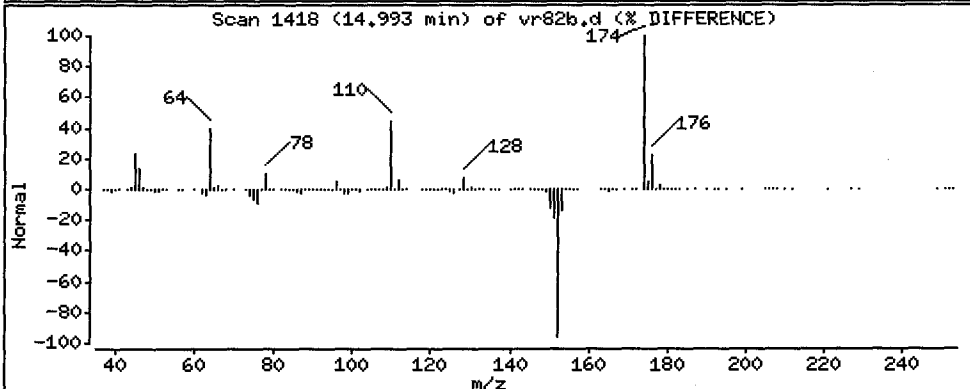
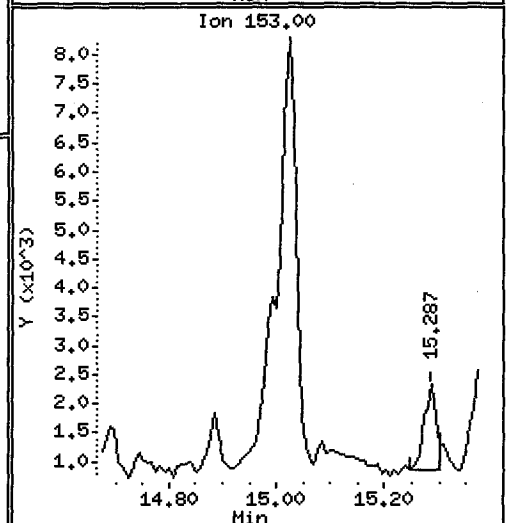
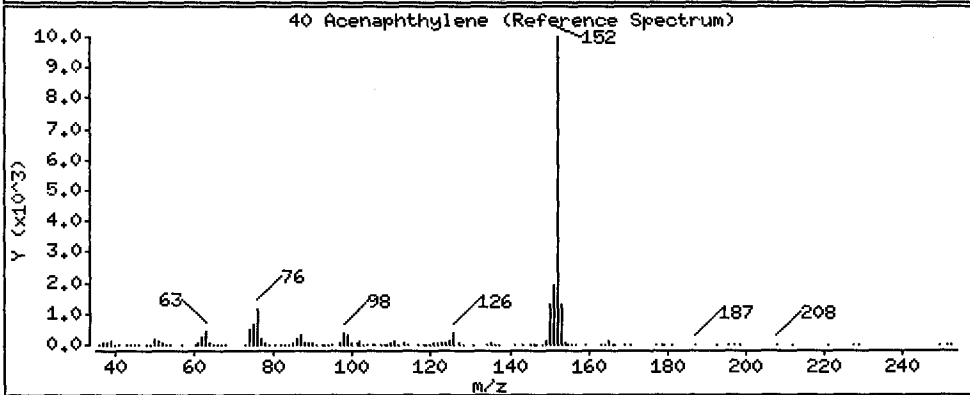
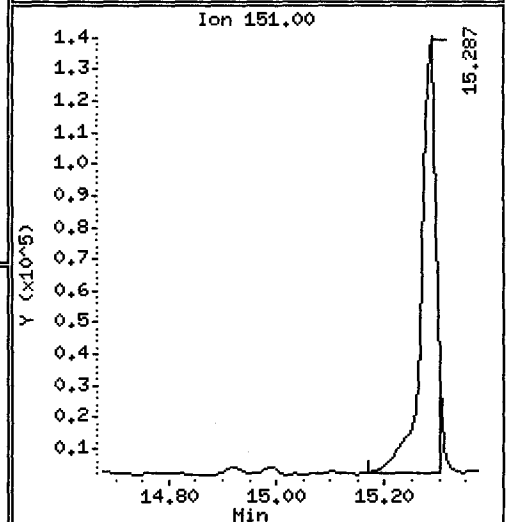
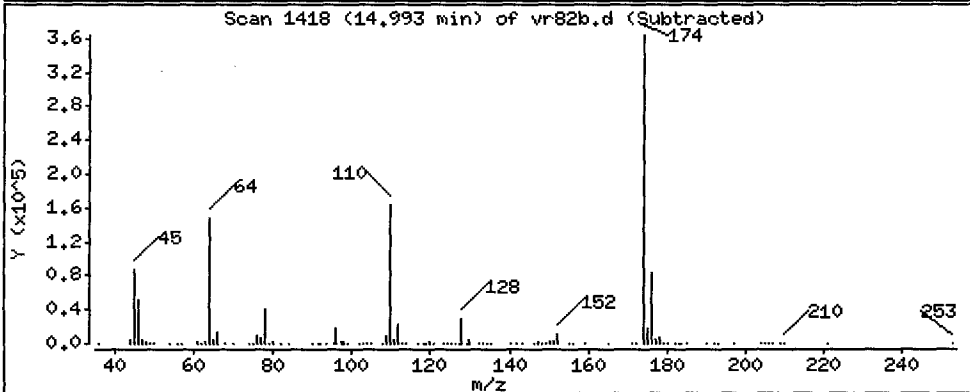
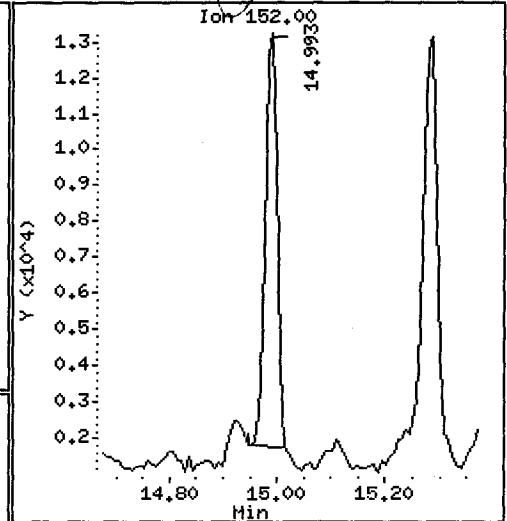
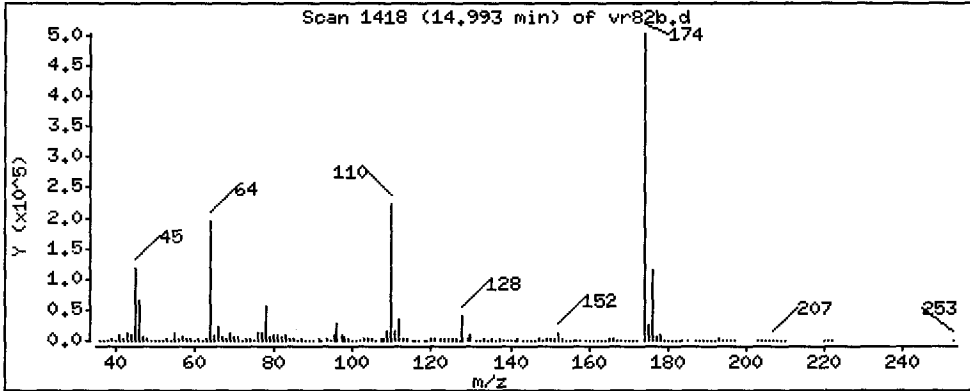
Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 15.63 ug/kg

Handwritten signature



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

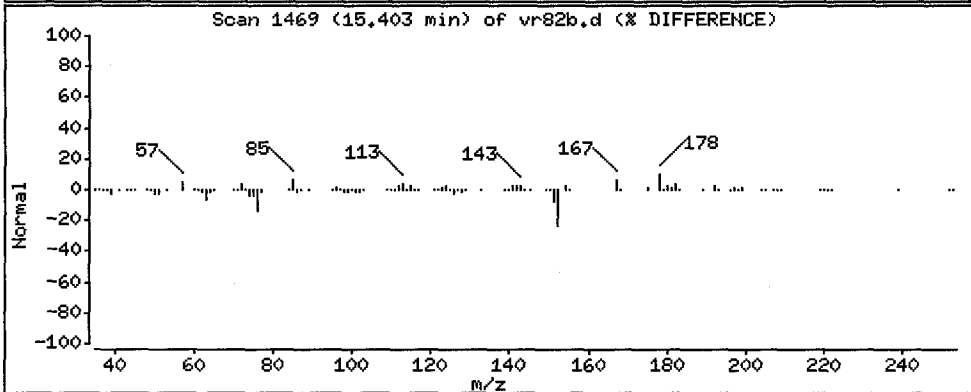
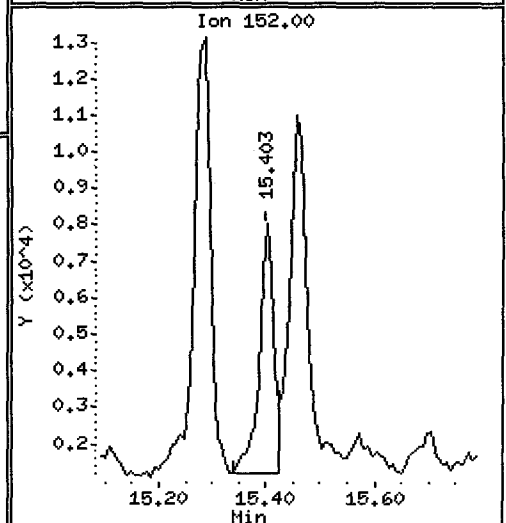
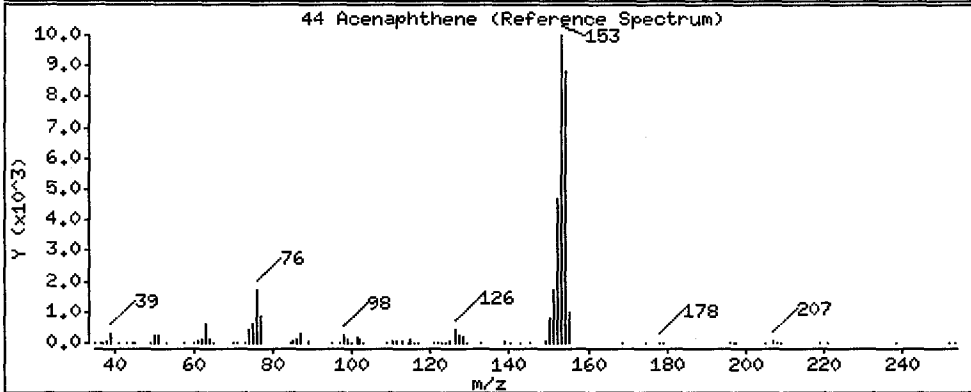
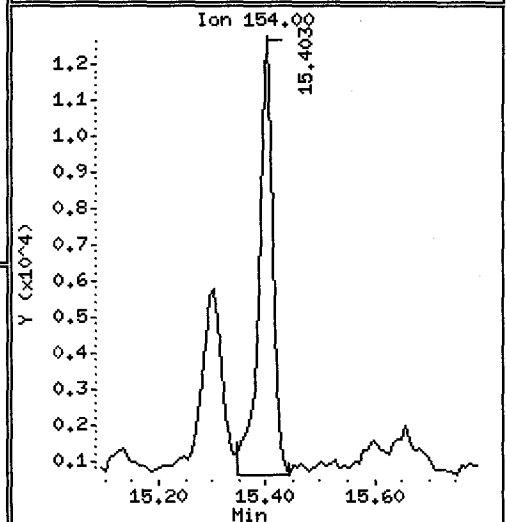
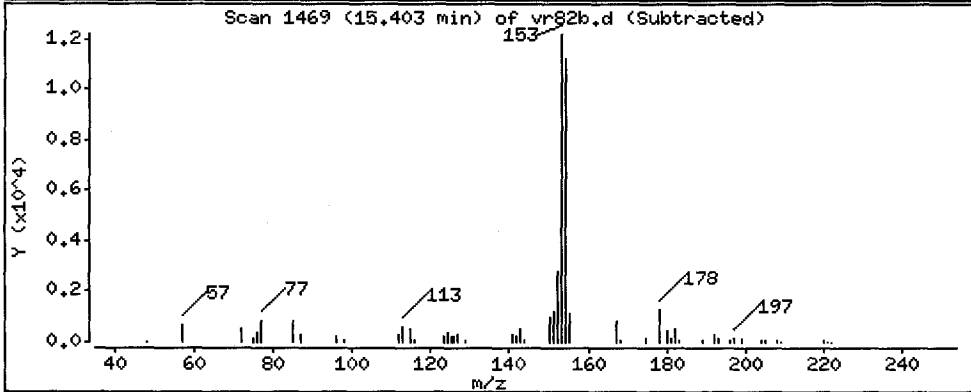
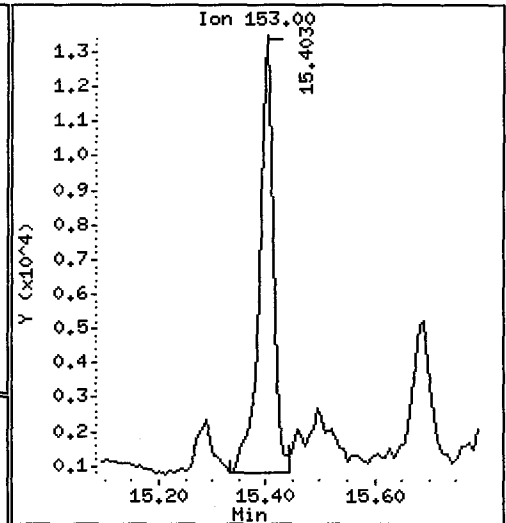
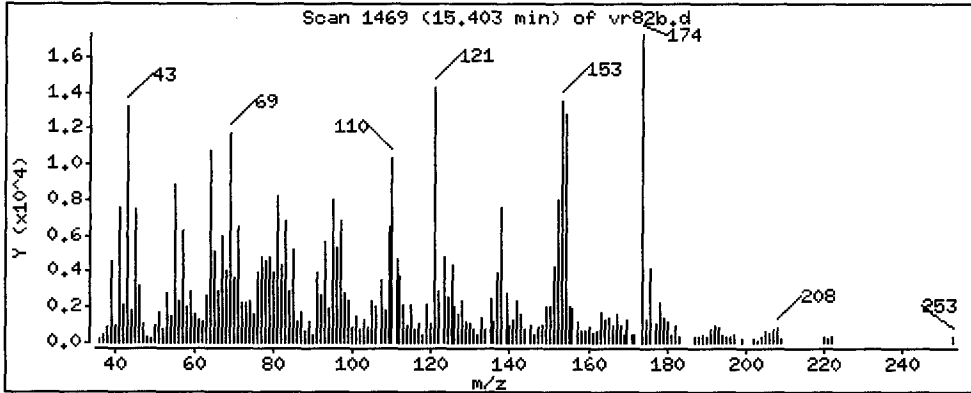
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 33.67 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

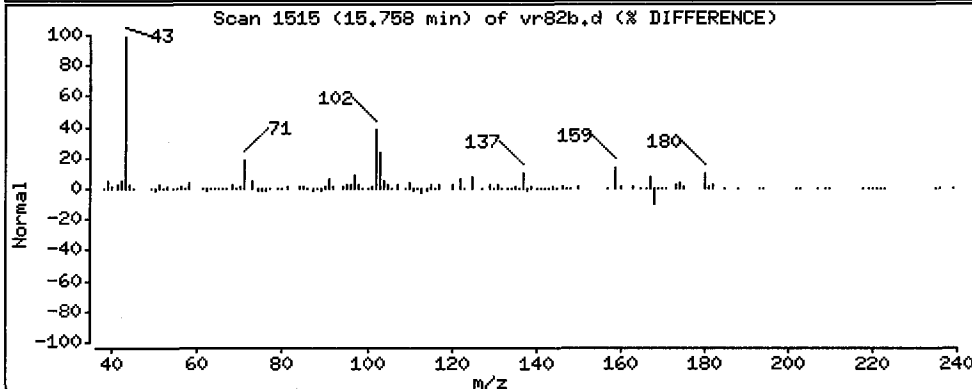
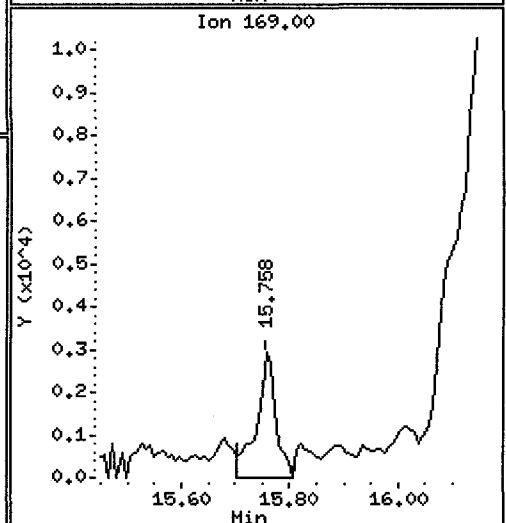
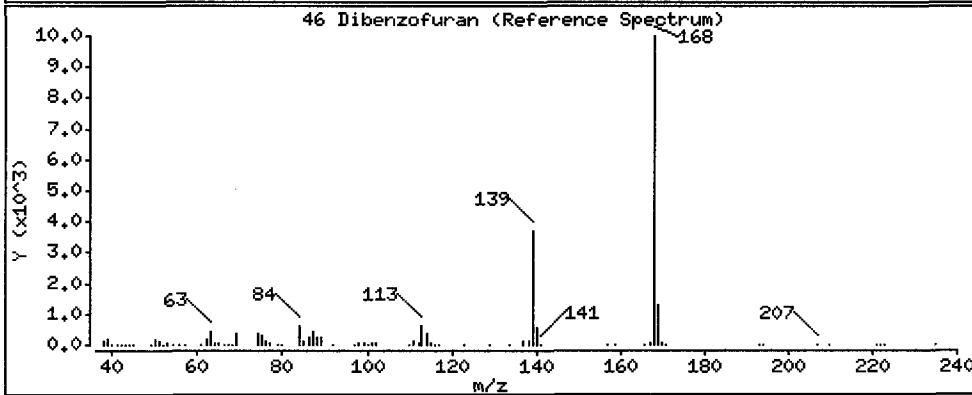
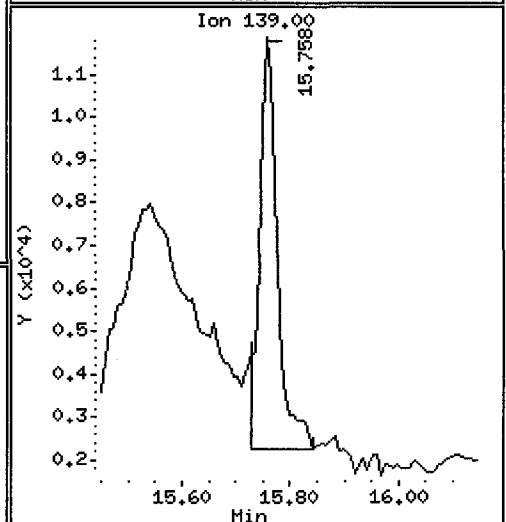
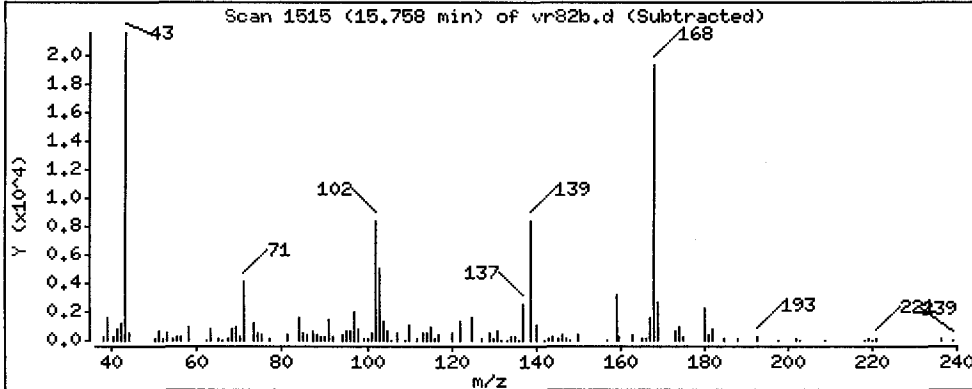
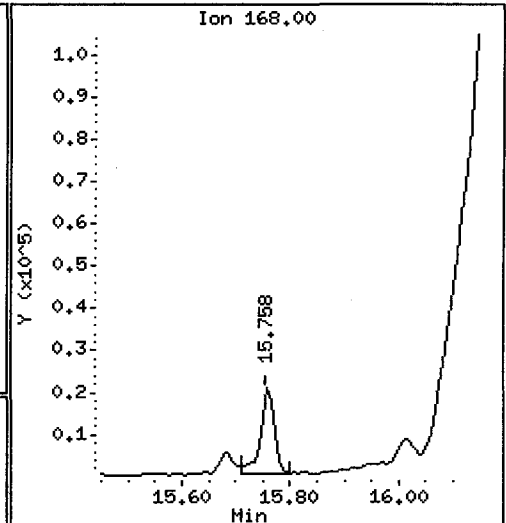
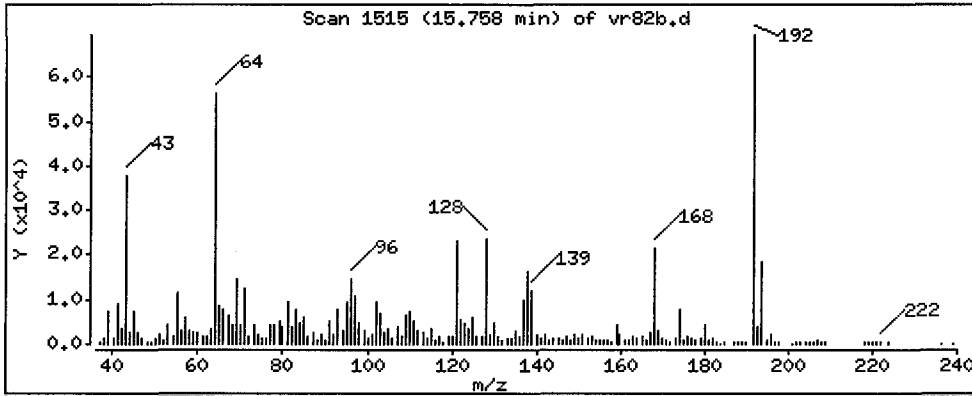
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 35.66 ug/kg



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Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

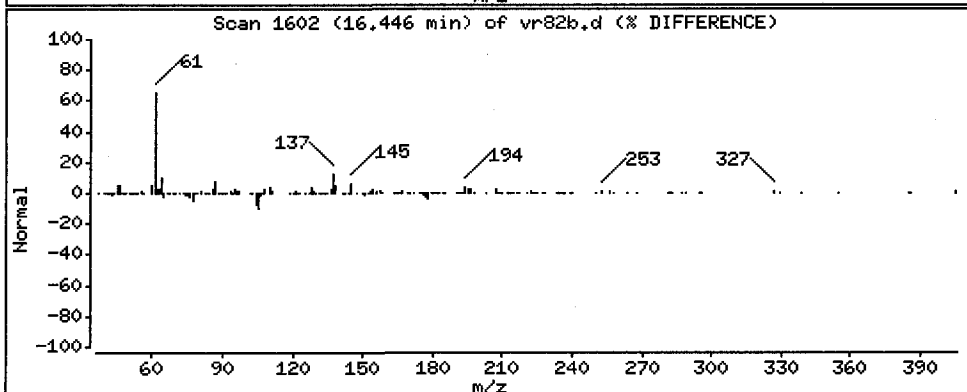
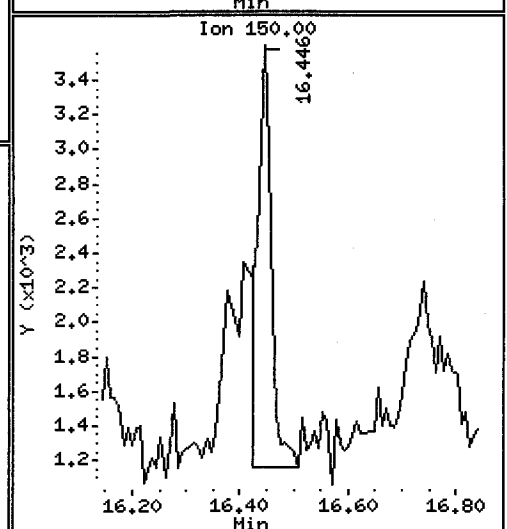
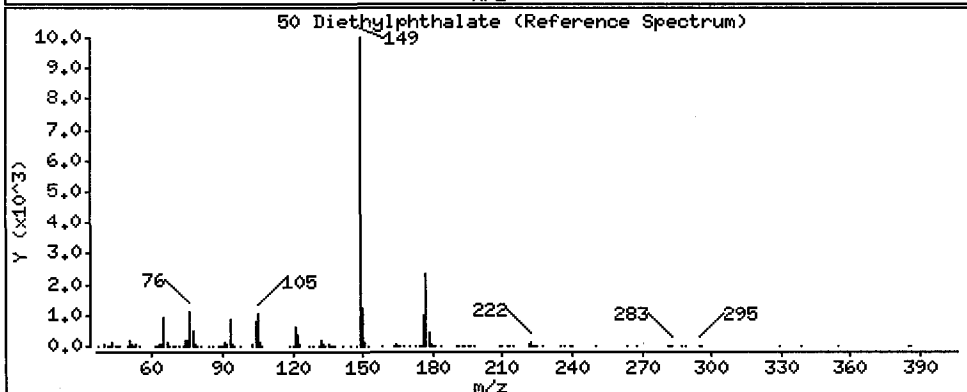
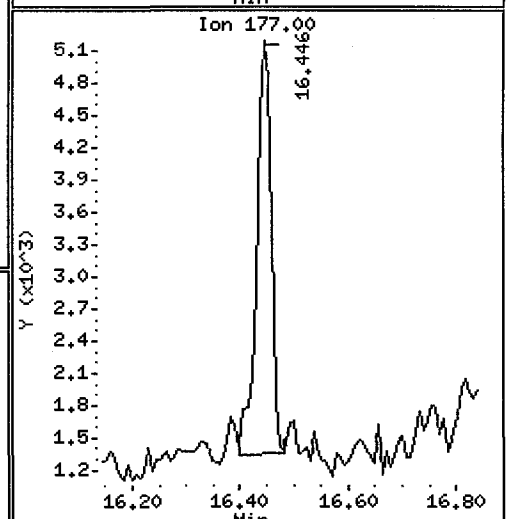
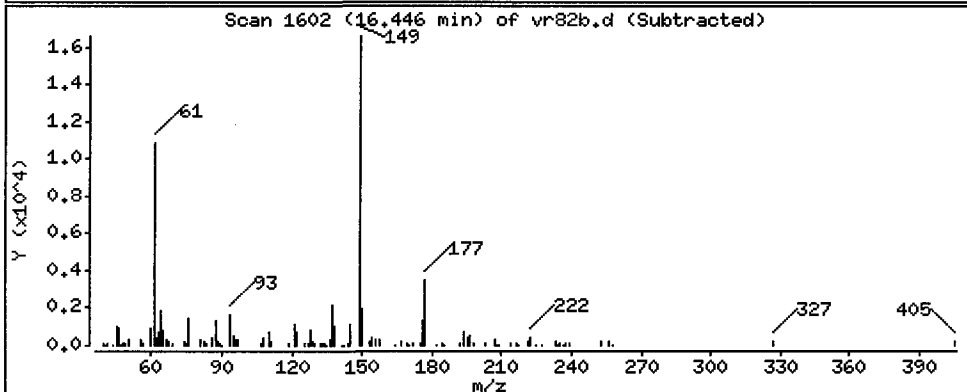
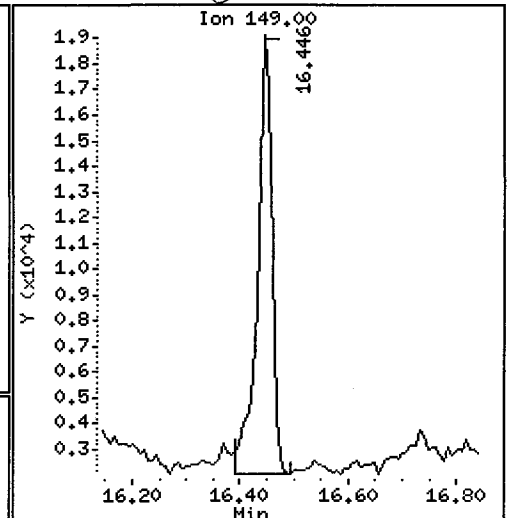
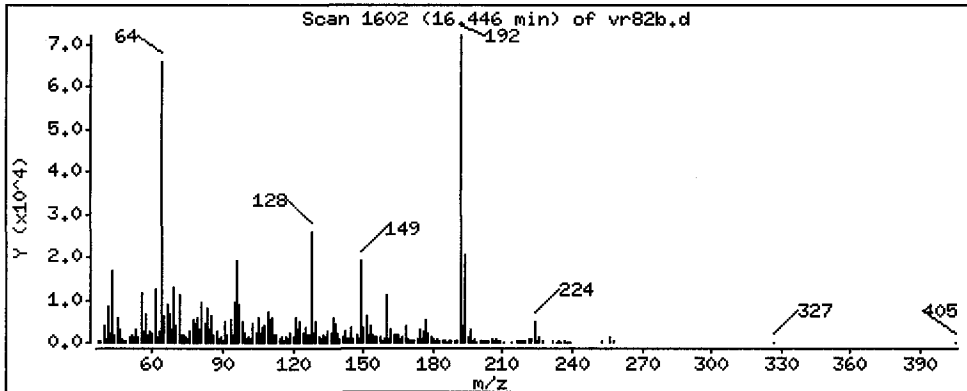
Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 38.11 ug/kg

Jan



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

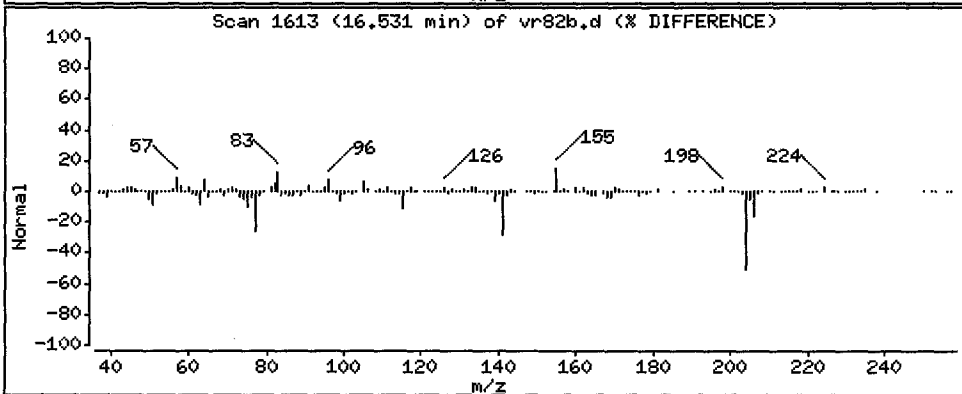
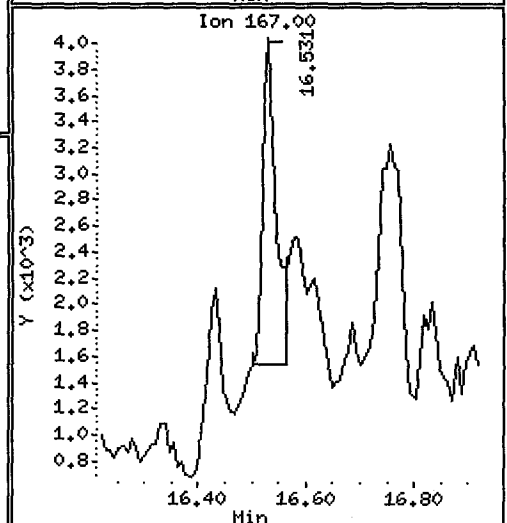
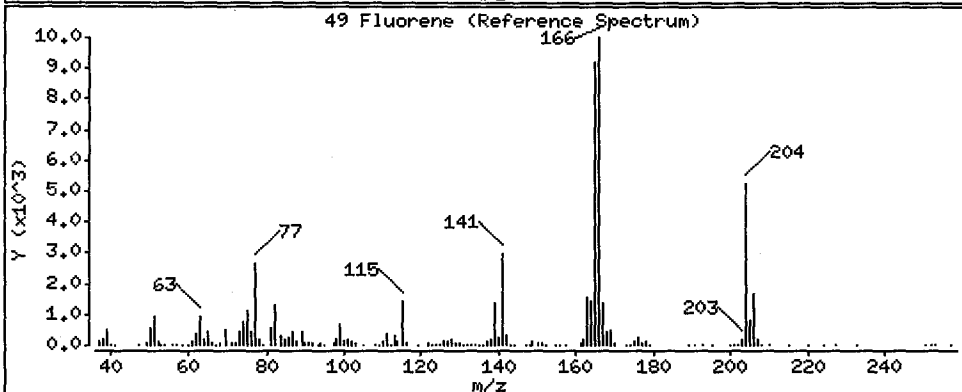
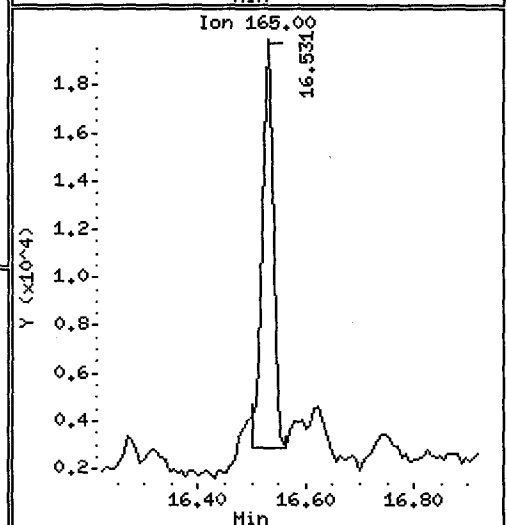
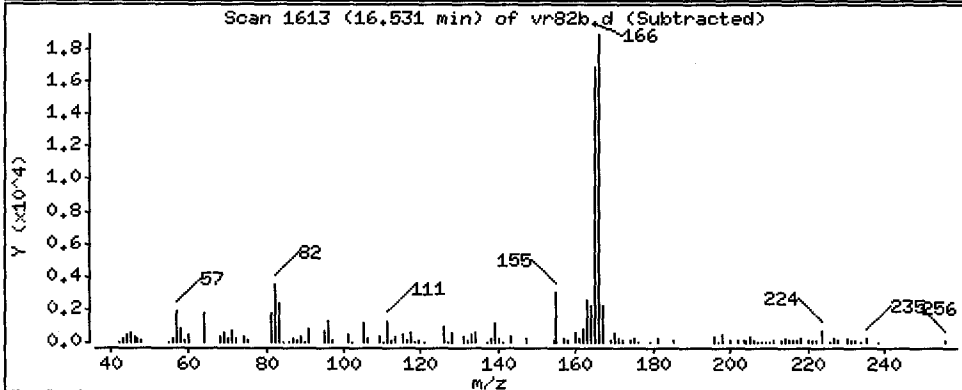
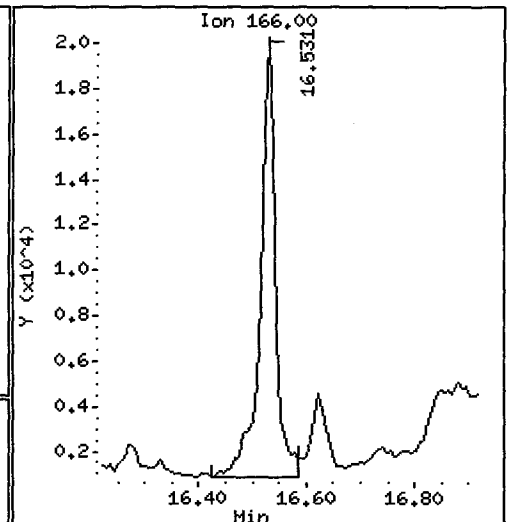
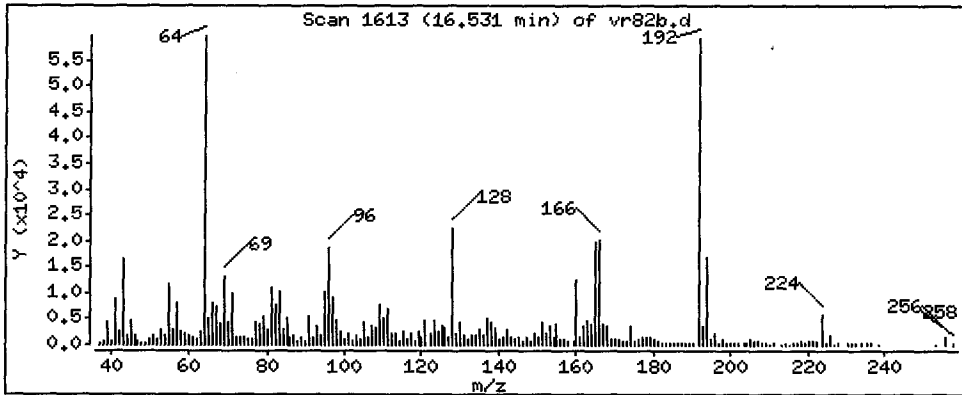
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 45.89 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

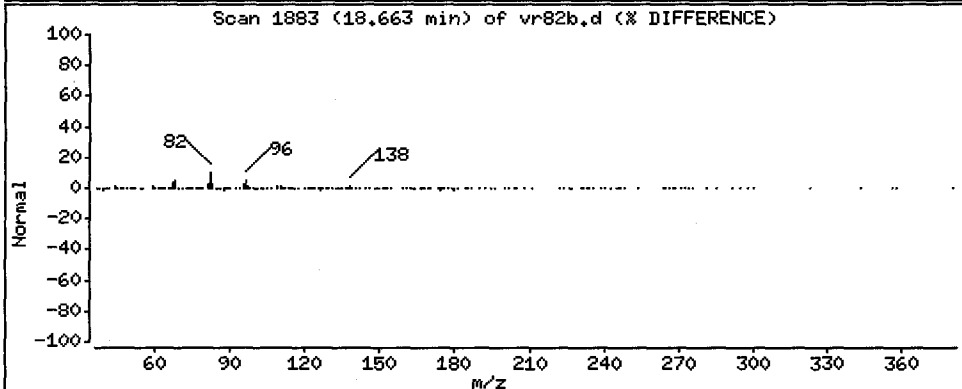
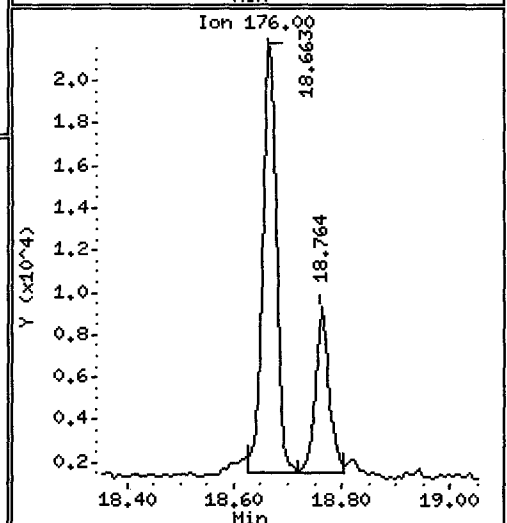
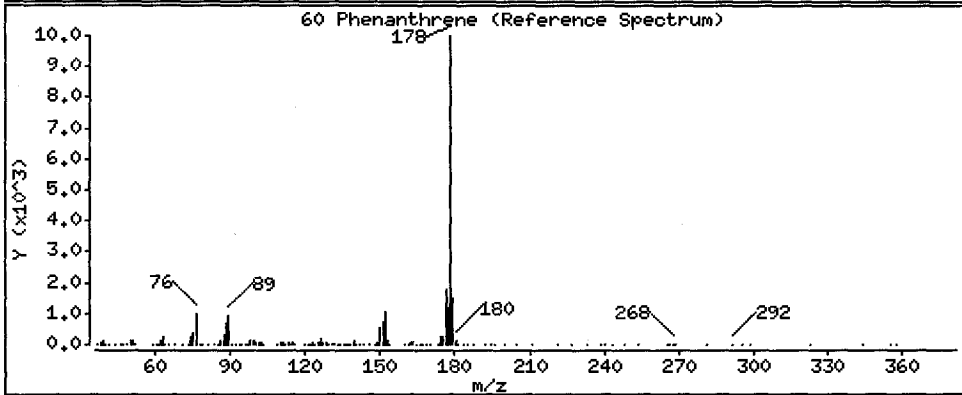
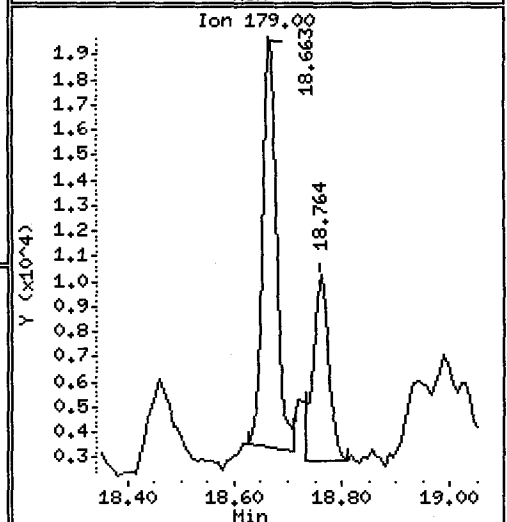
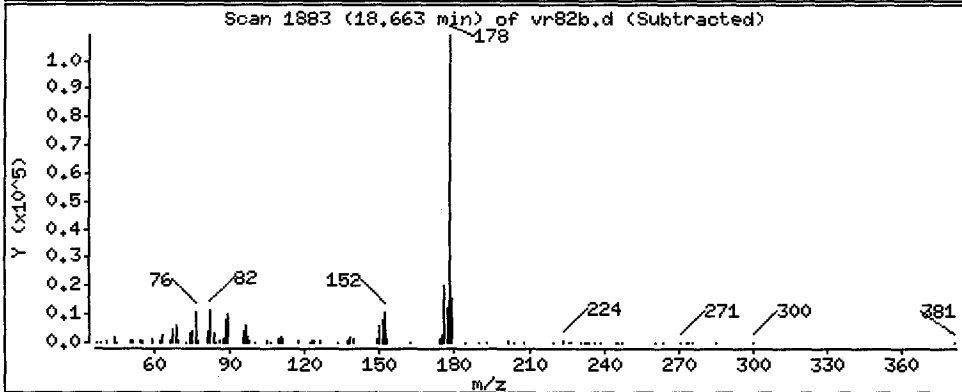
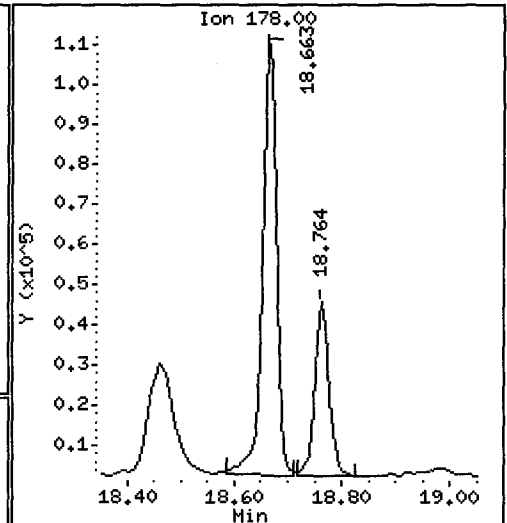
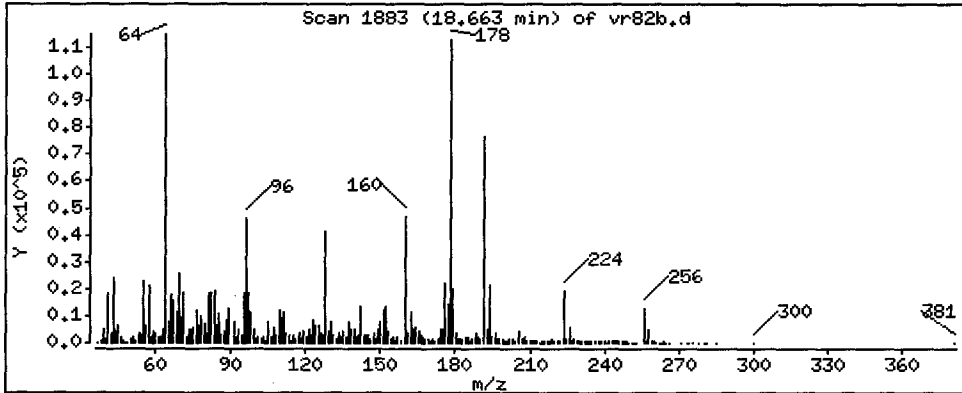
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 191.3 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

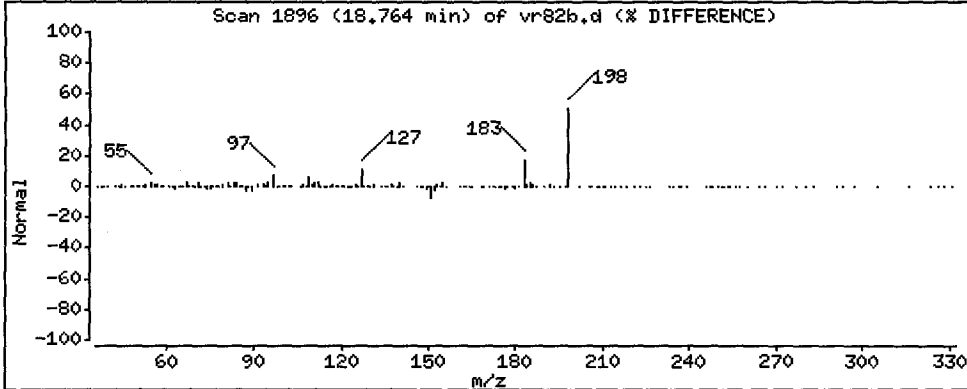
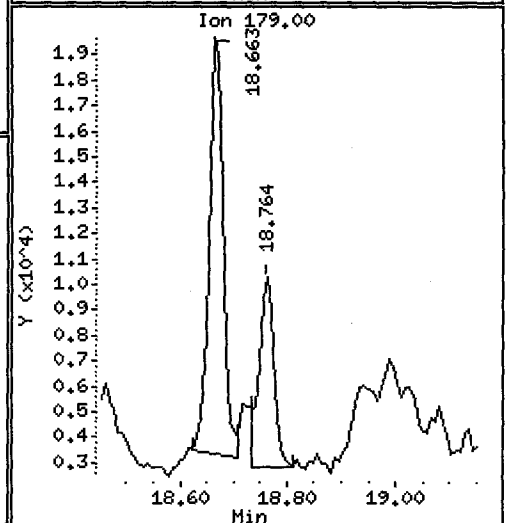
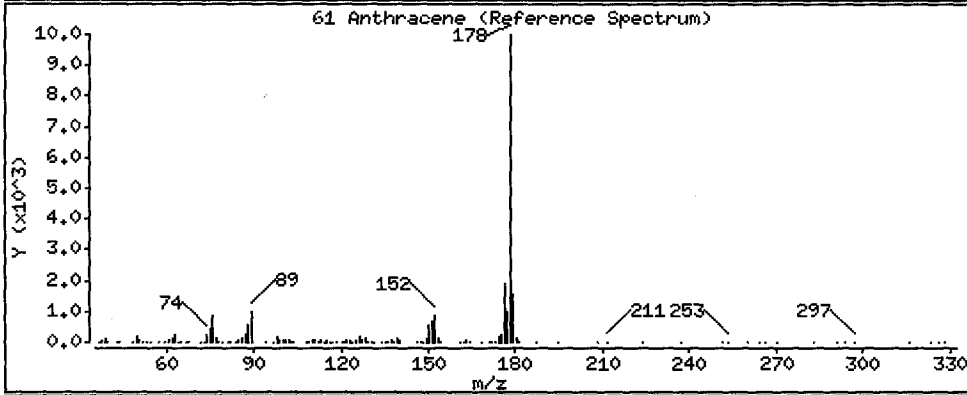
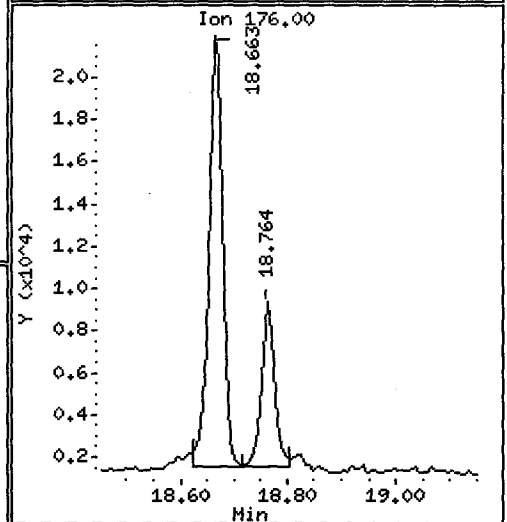
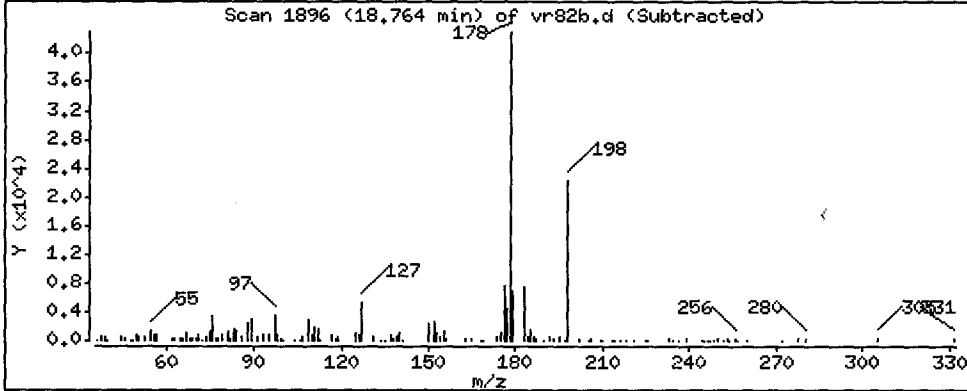
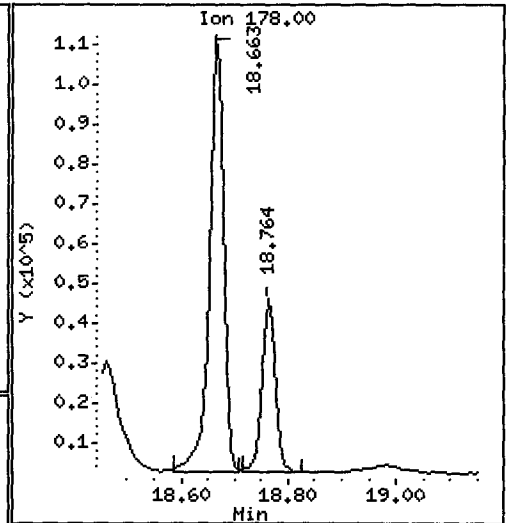
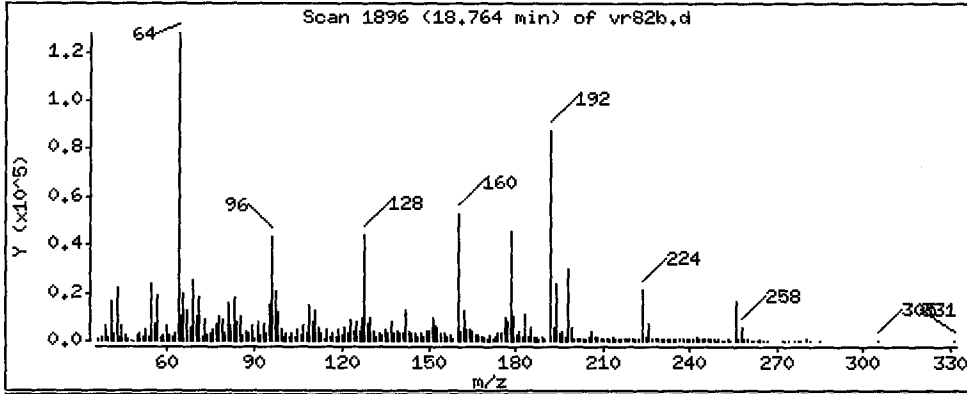
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 67.50 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

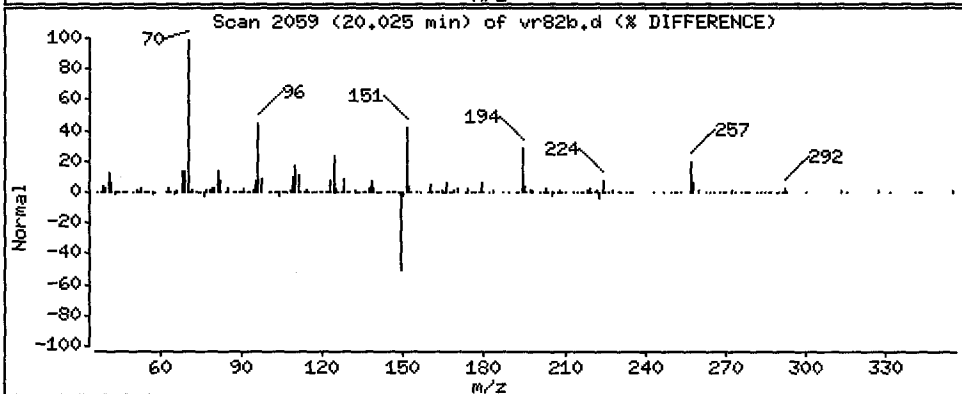
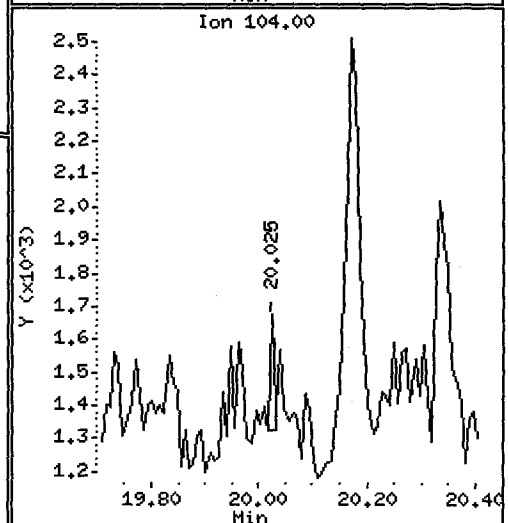
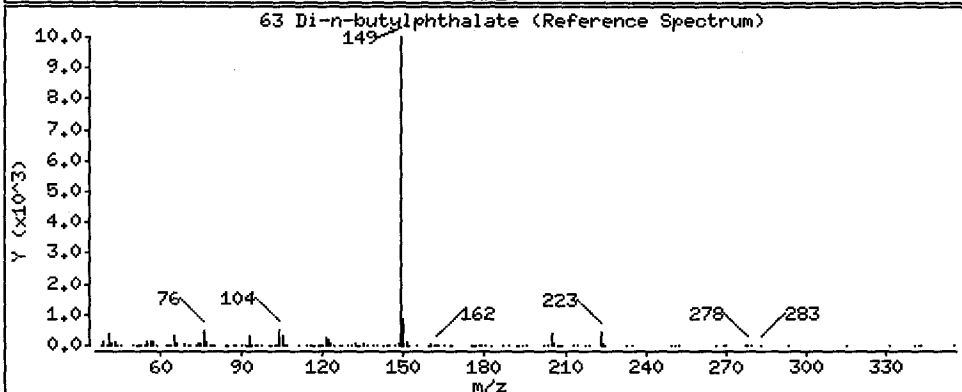
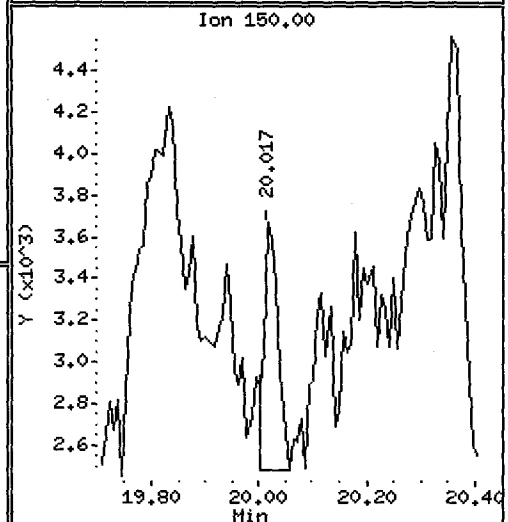
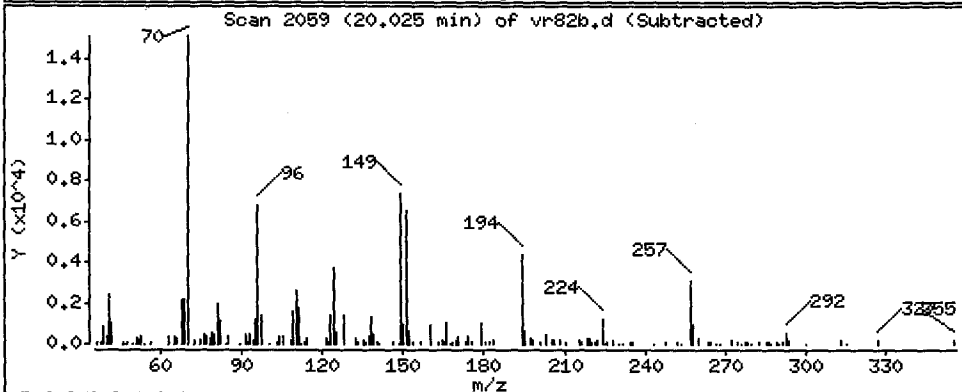
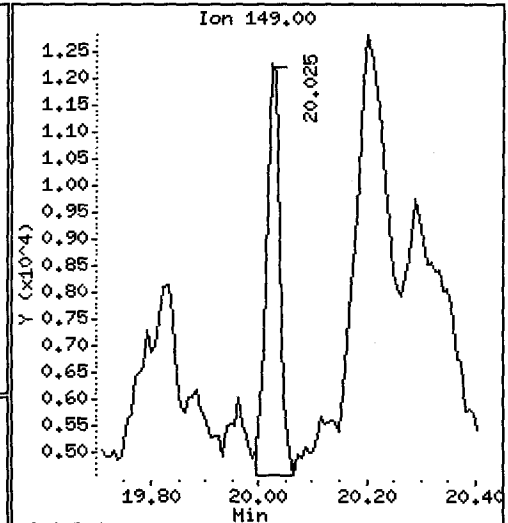
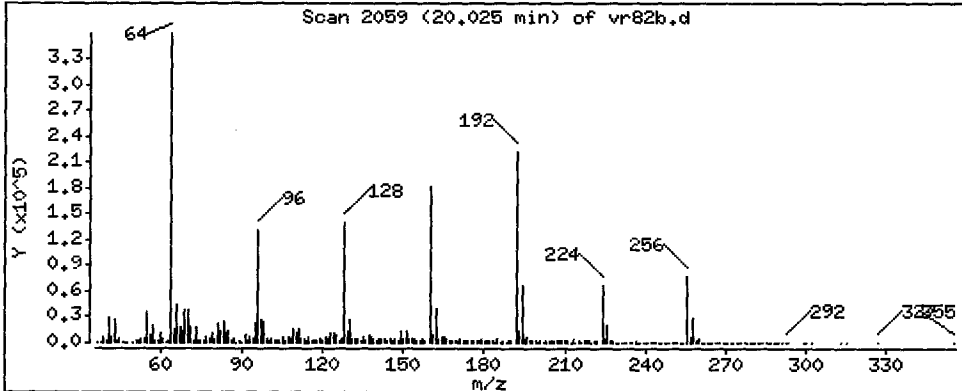
Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 10.30 ug/kg

OK



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

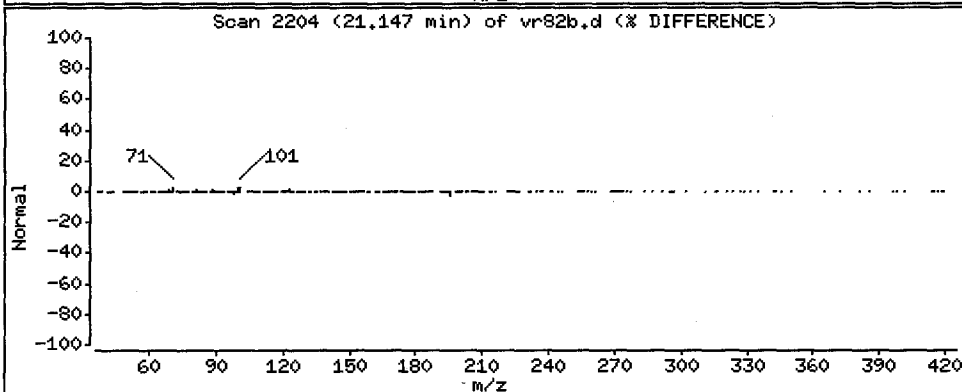
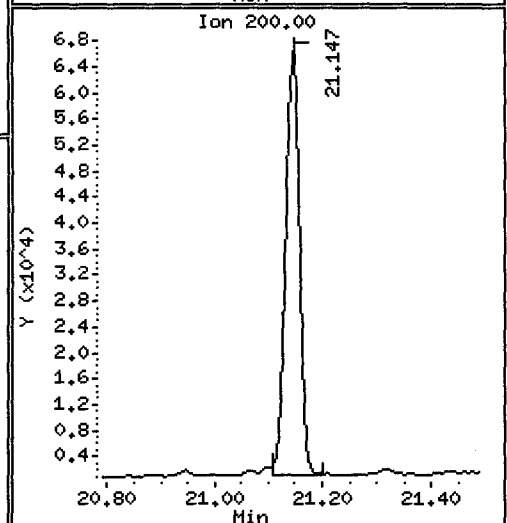
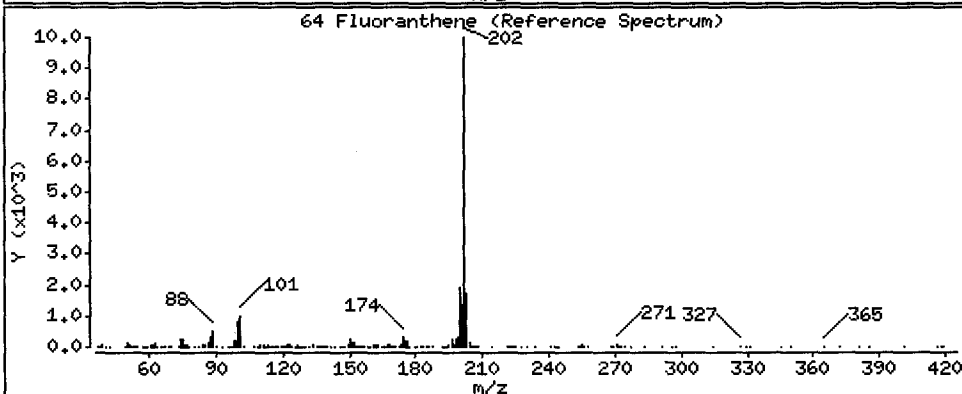
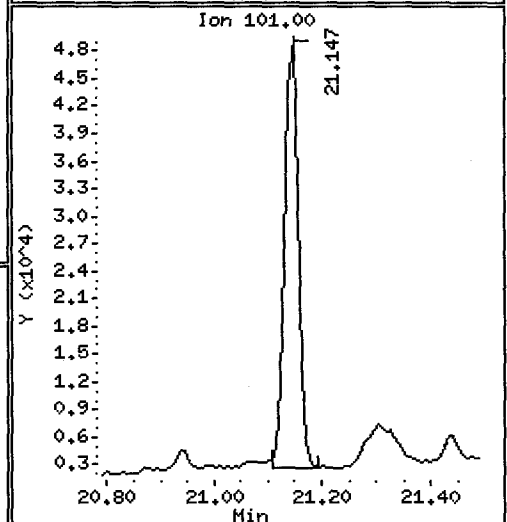
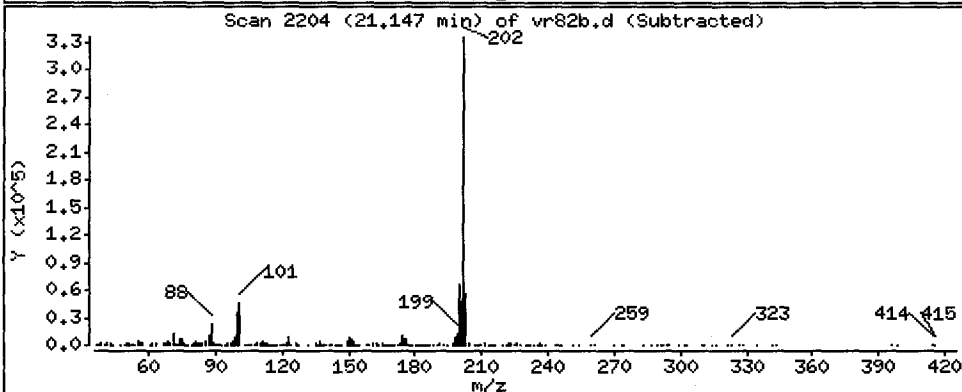
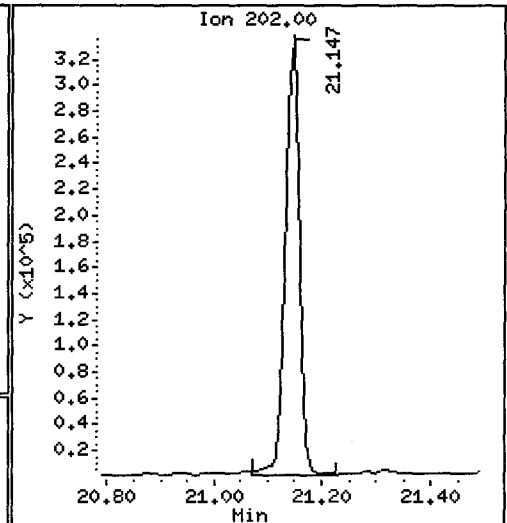
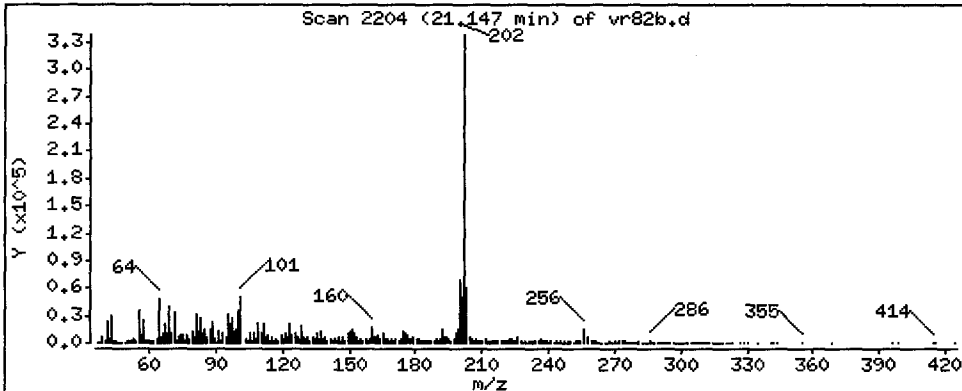
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 414.2 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

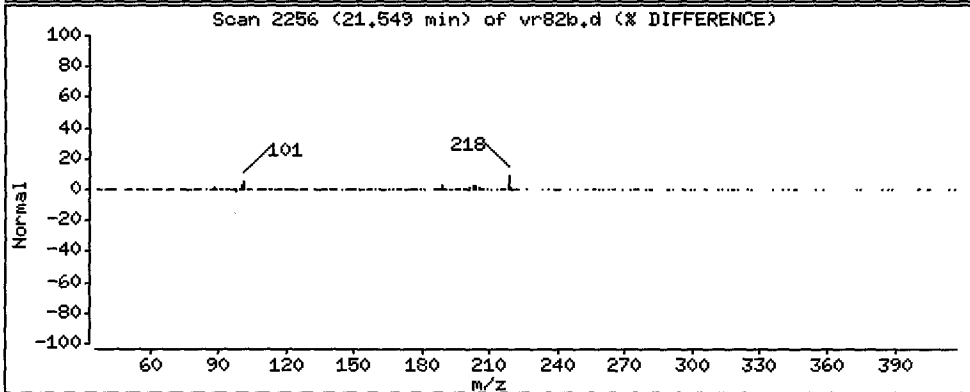
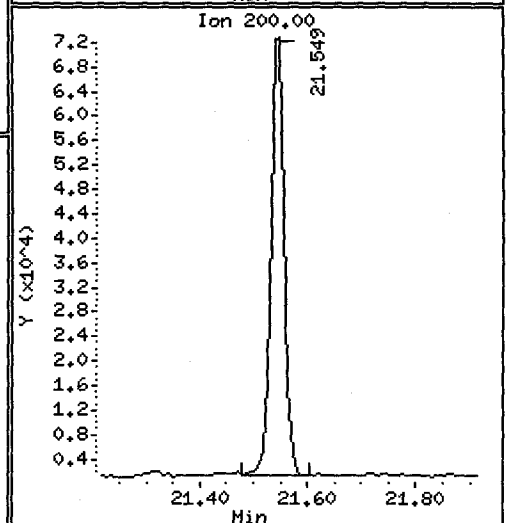
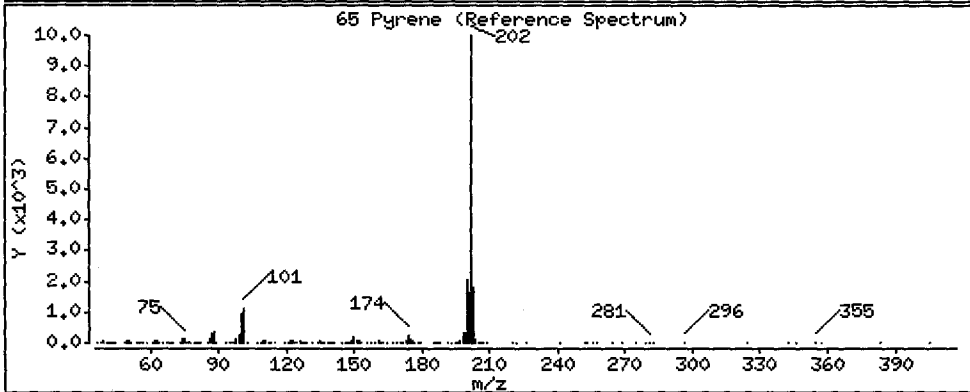
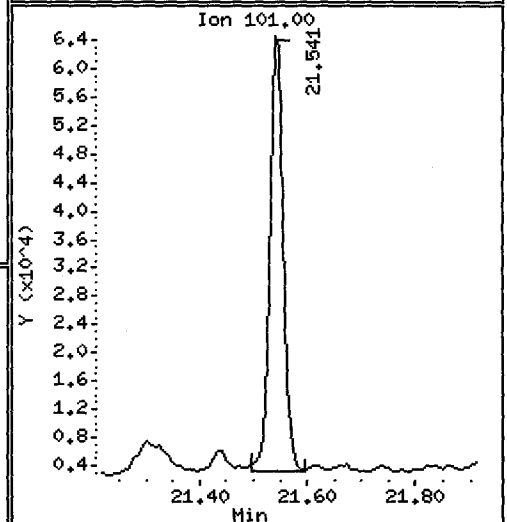
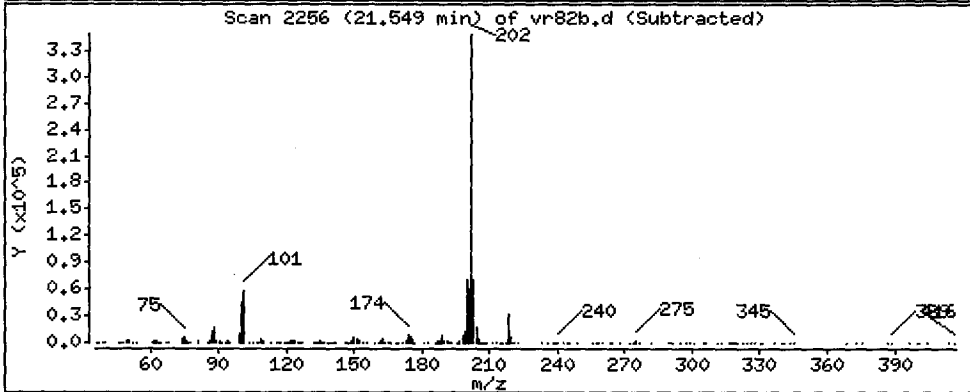
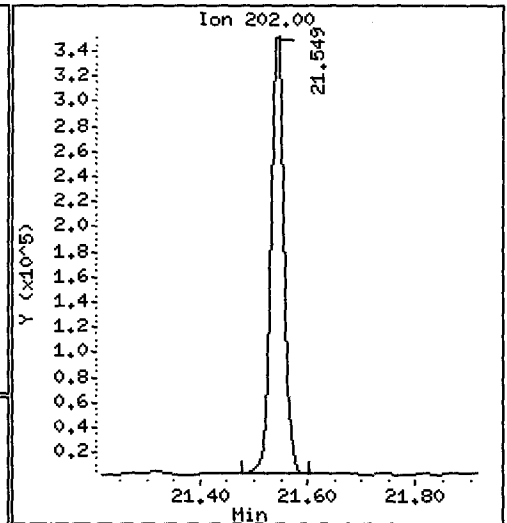
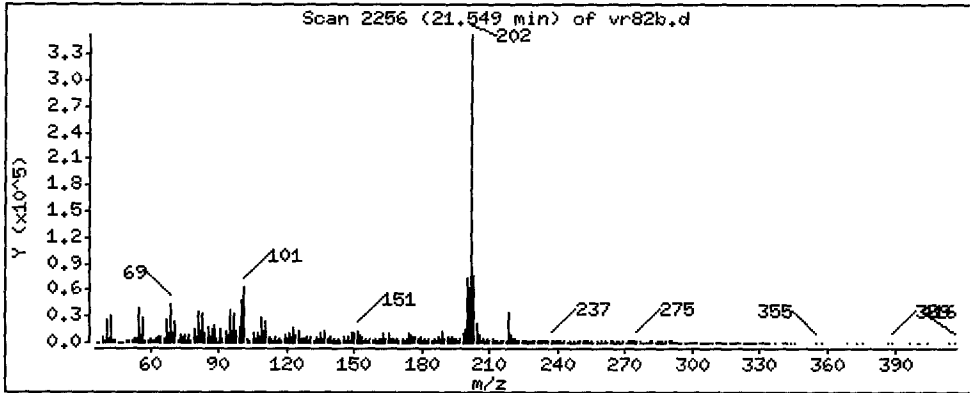
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 439.2 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

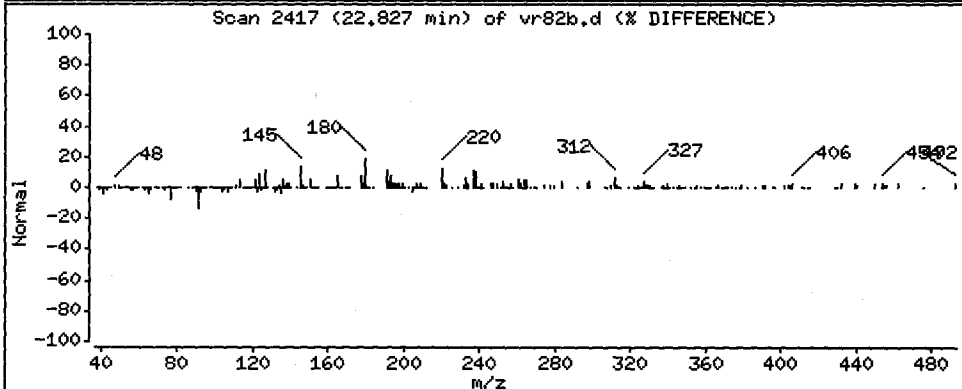
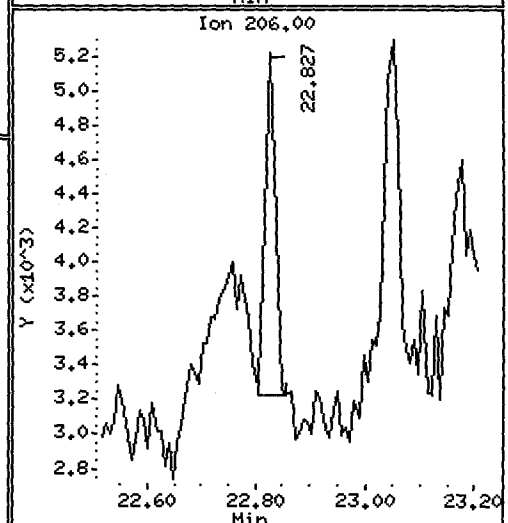
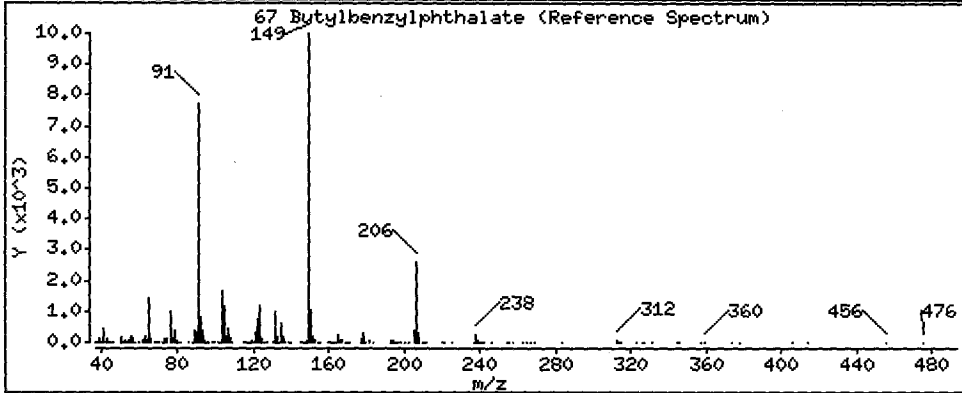
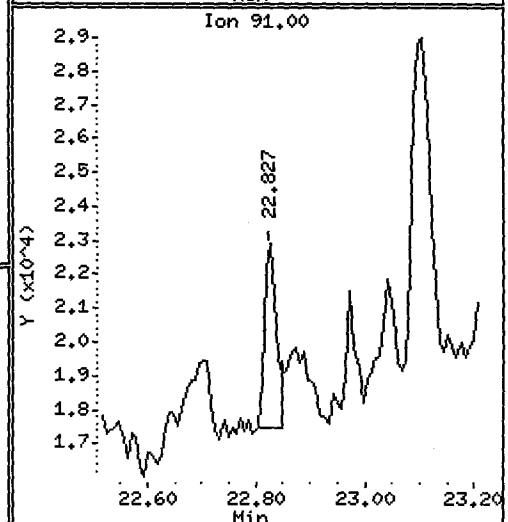
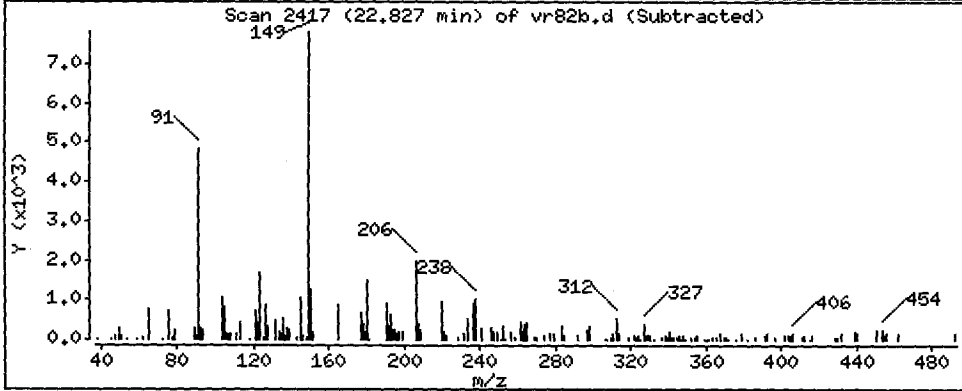
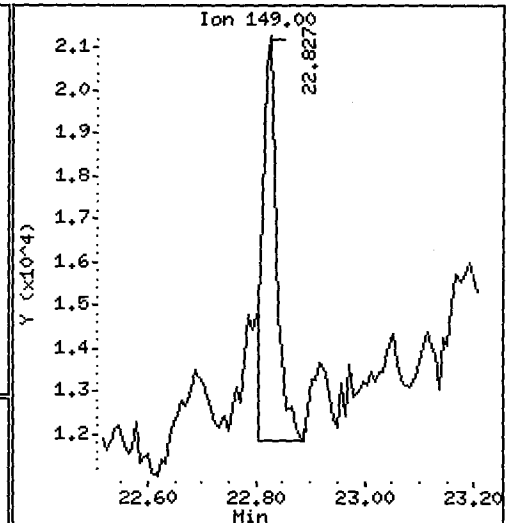
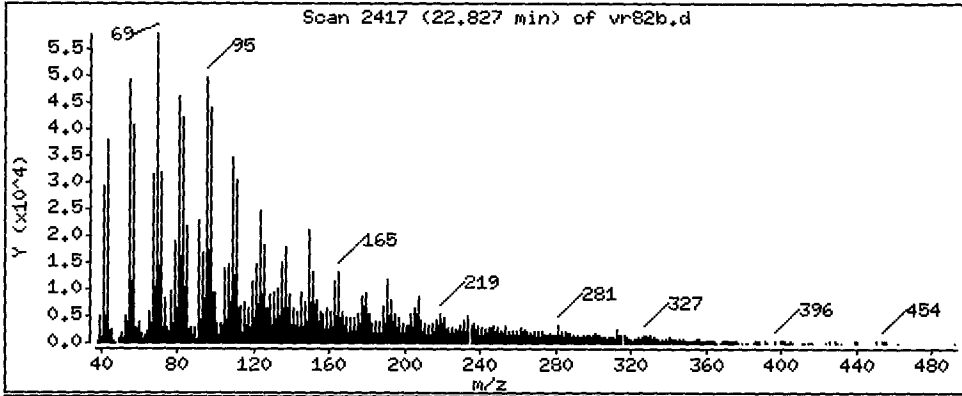
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 32.07 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

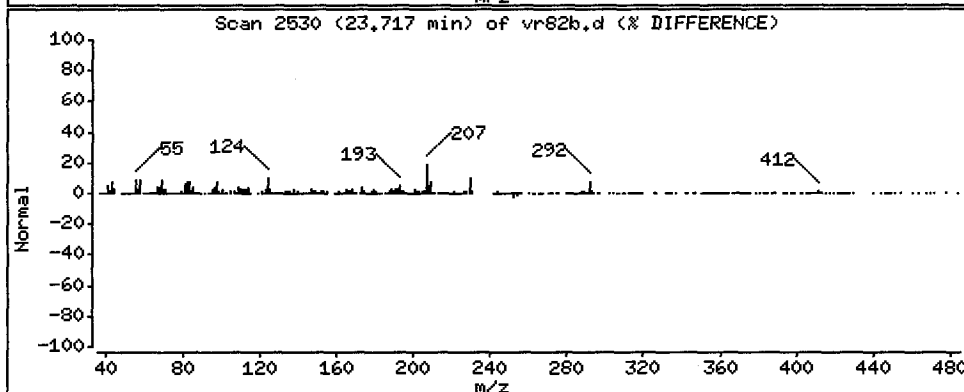
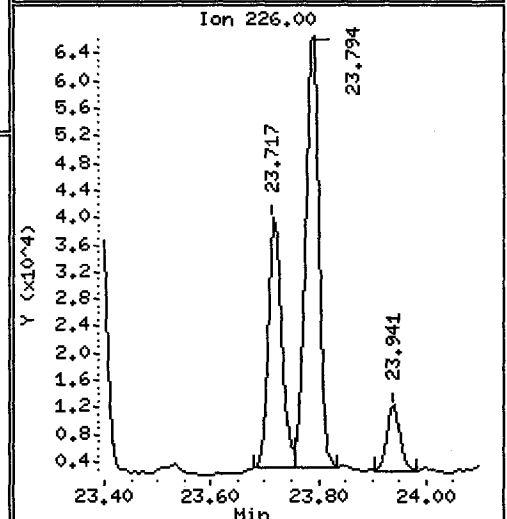
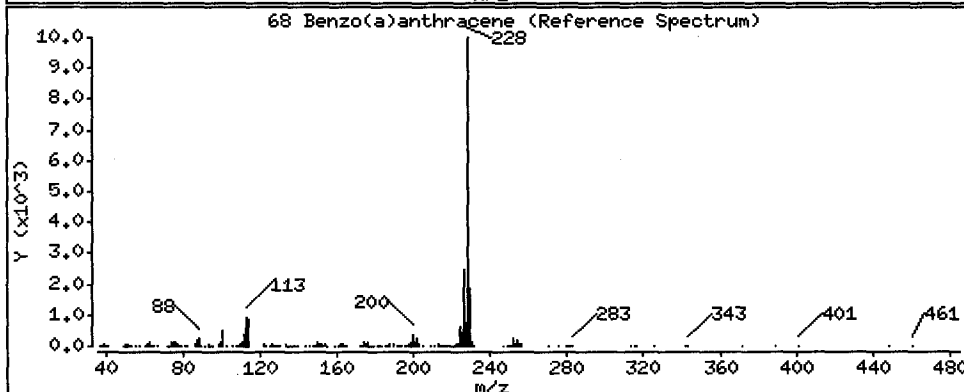
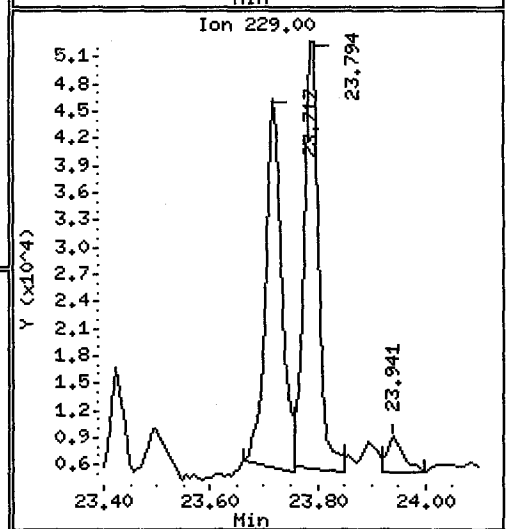
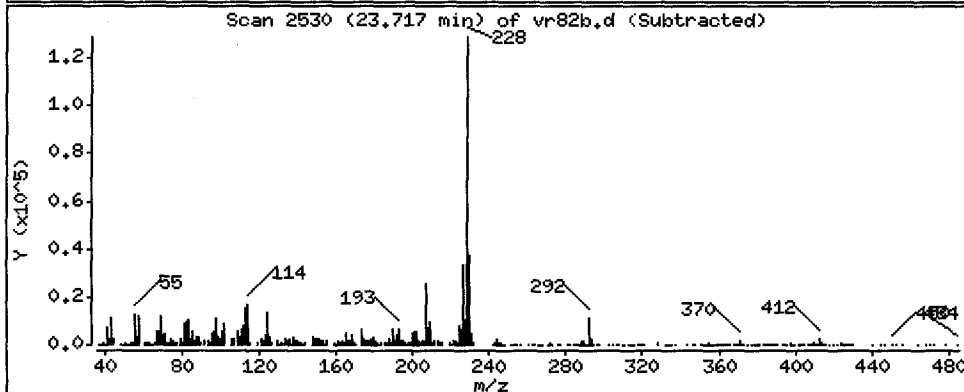
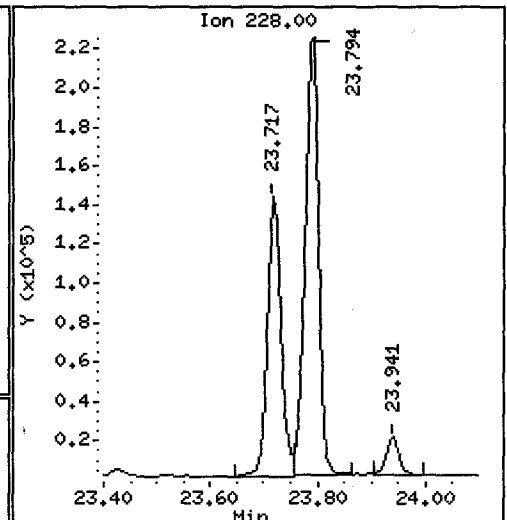
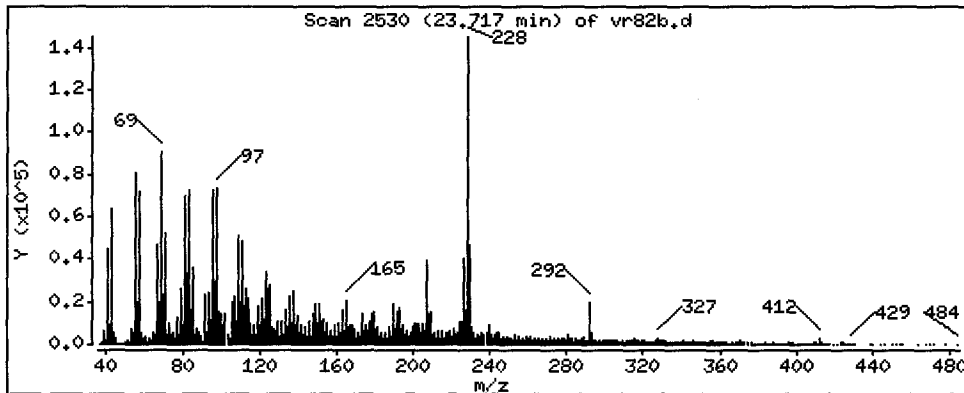
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 190.9 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

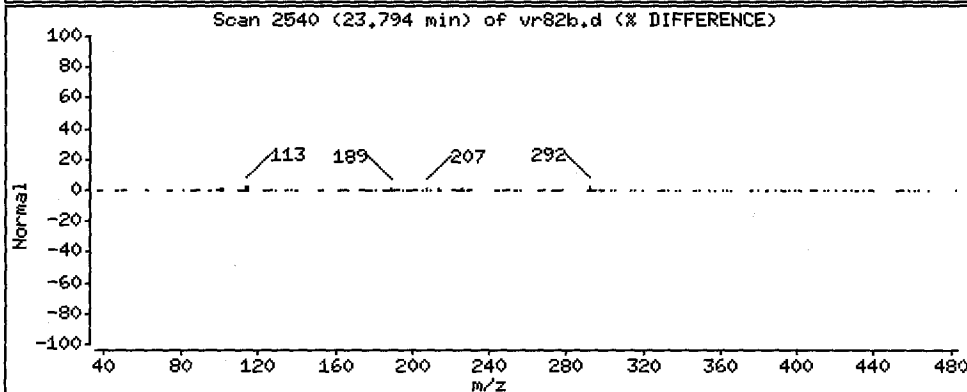
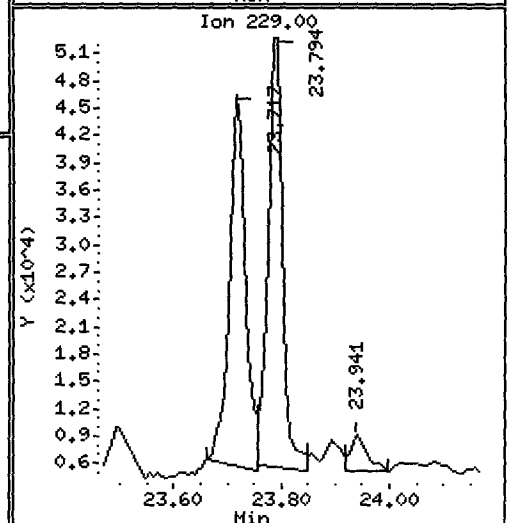
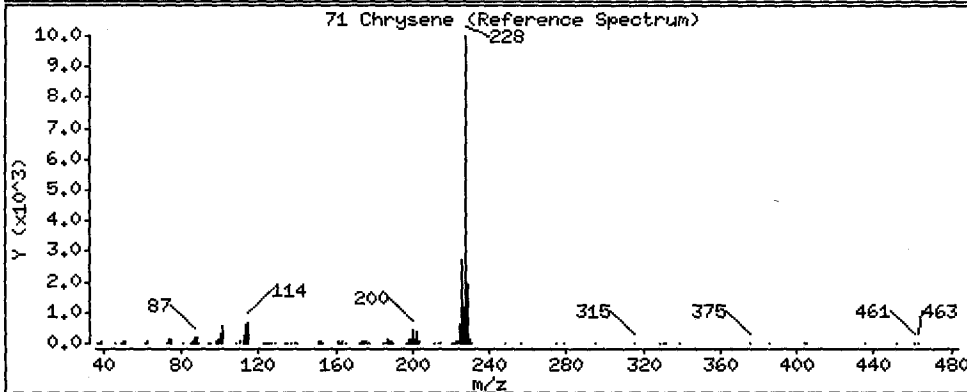
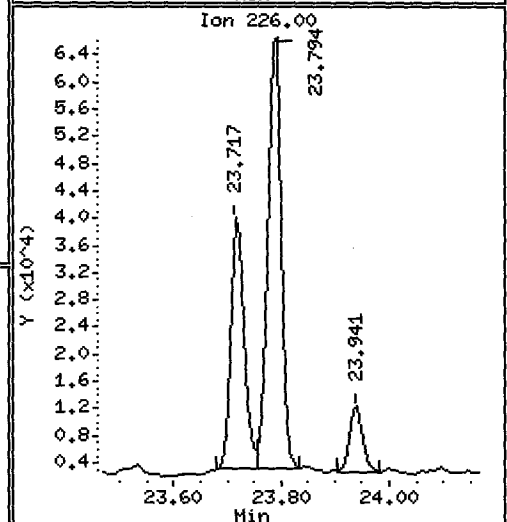
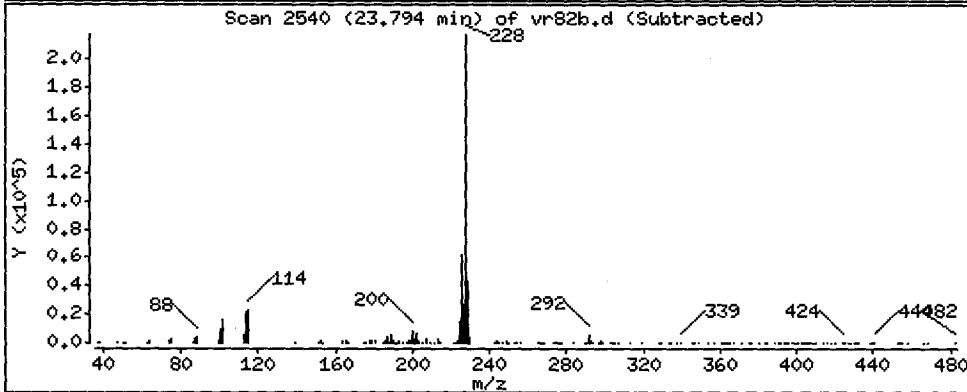
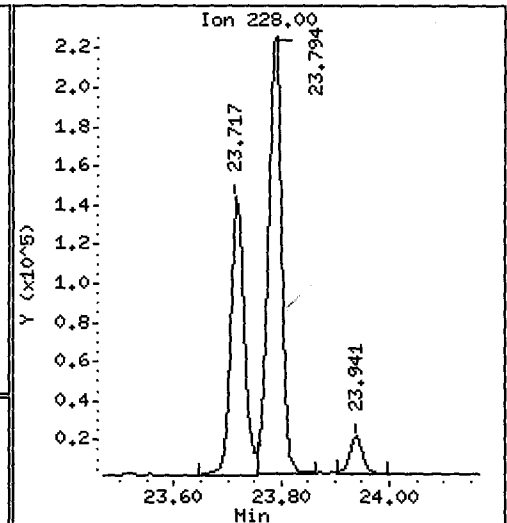
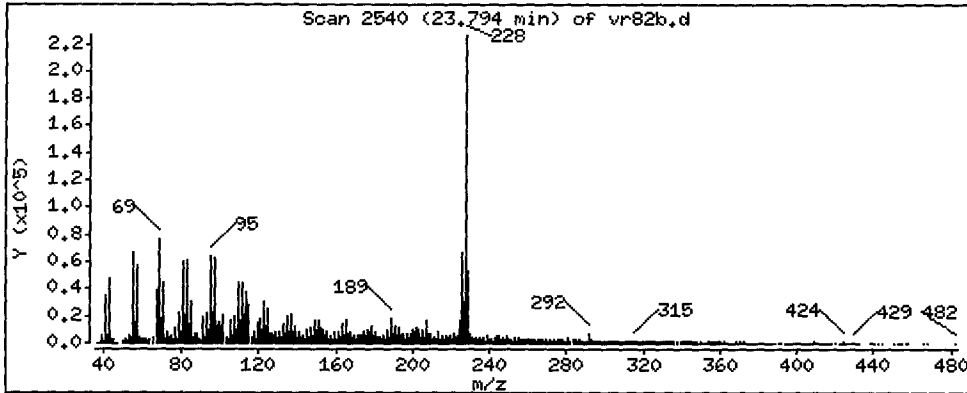
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 337.9 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

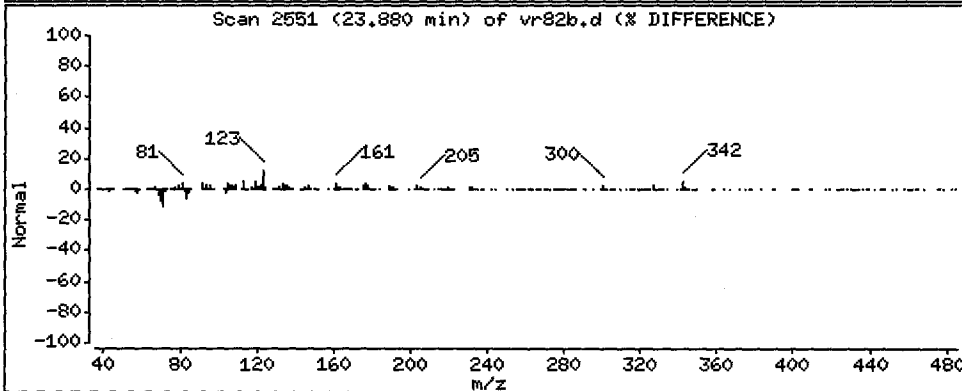
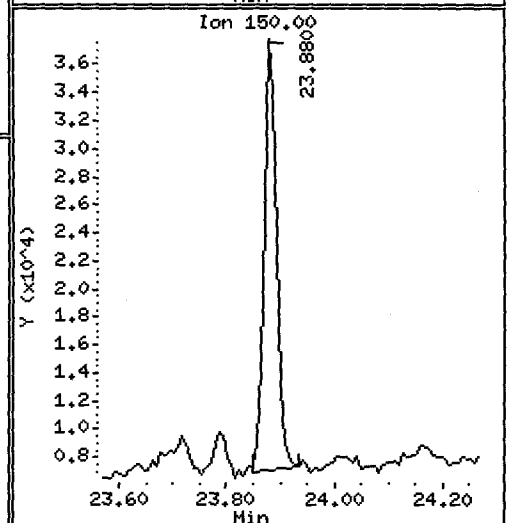
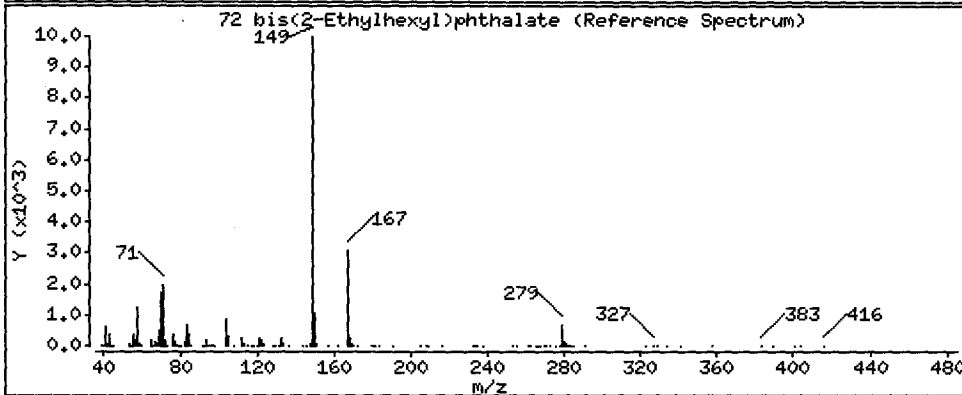
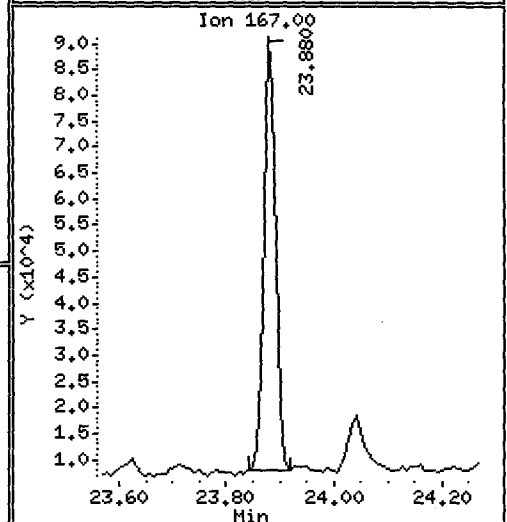
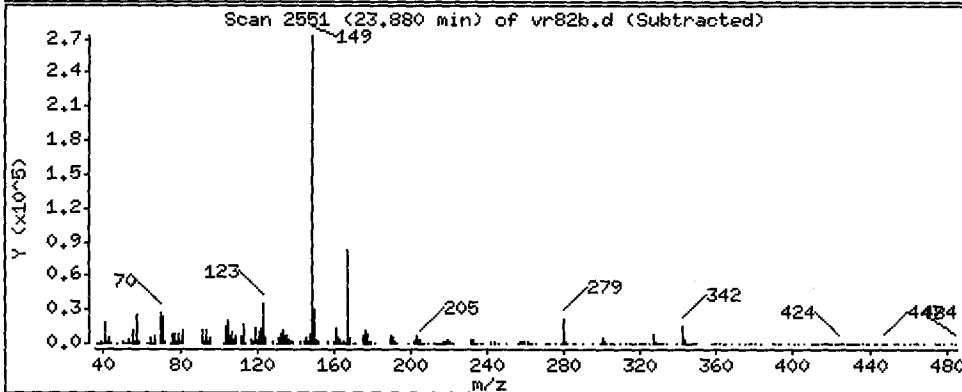
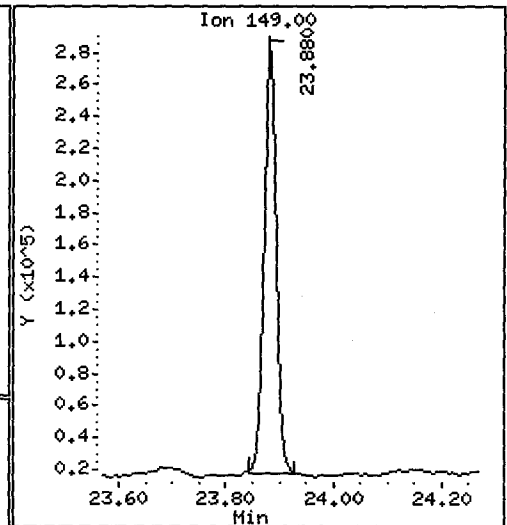
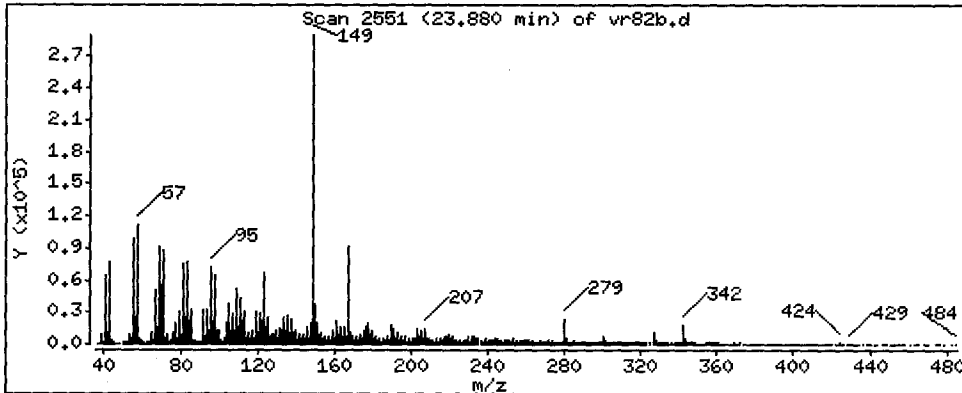
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 508.1 ug/kg

B



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

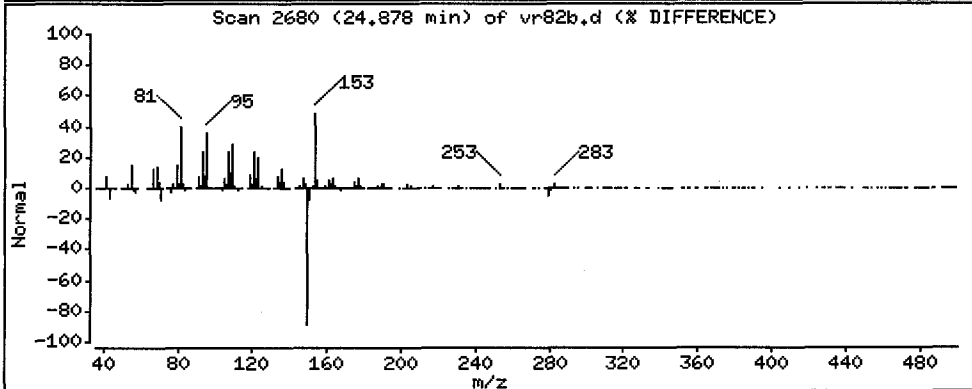
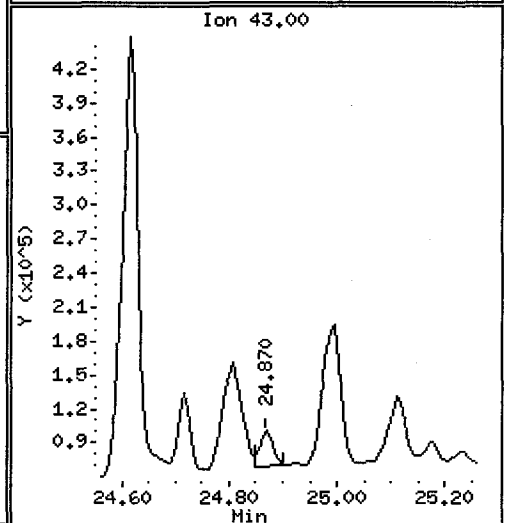
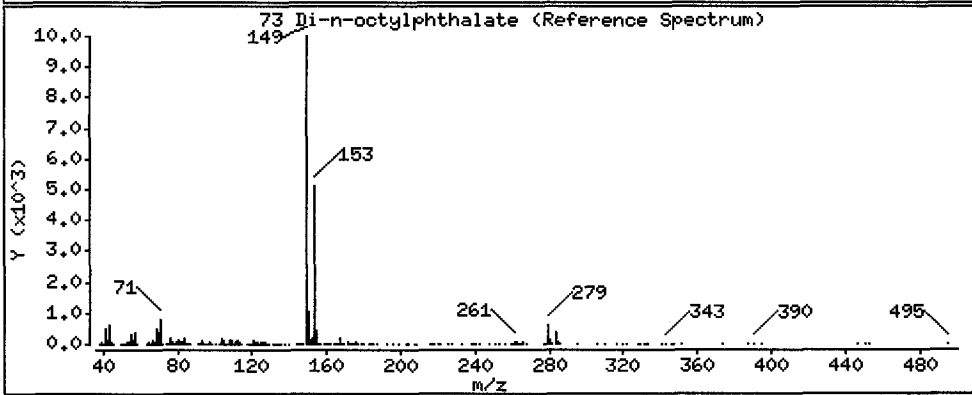
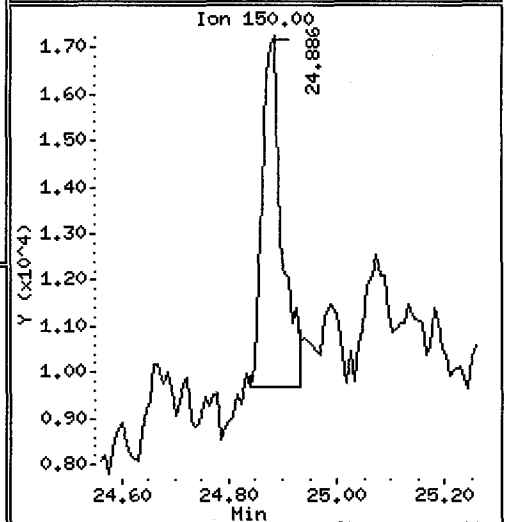
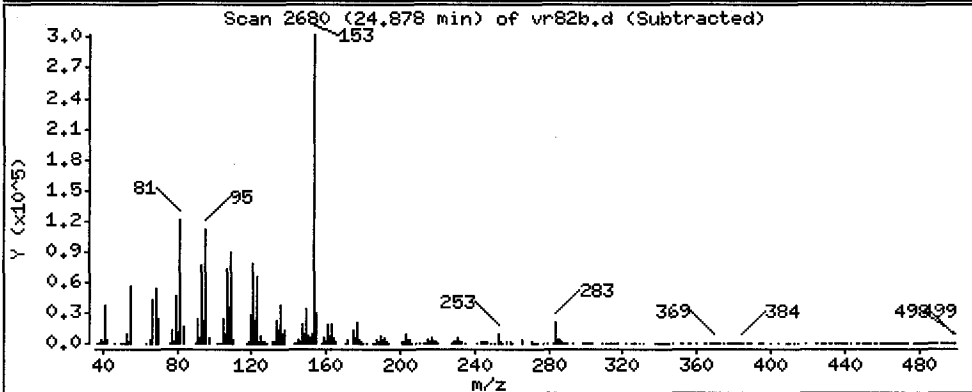
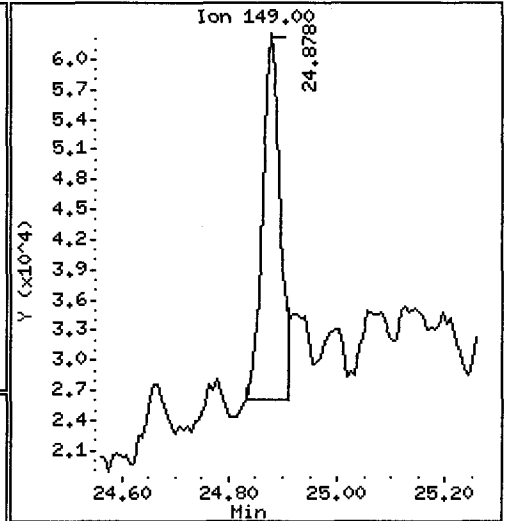
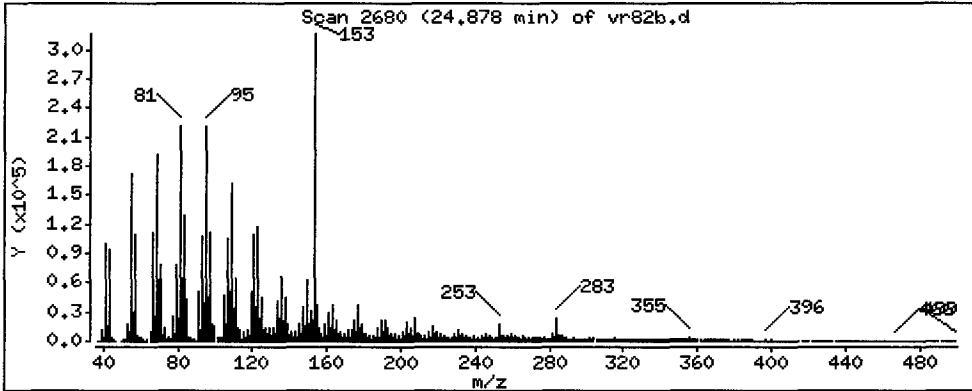
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 58.19 ug/kg

M



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

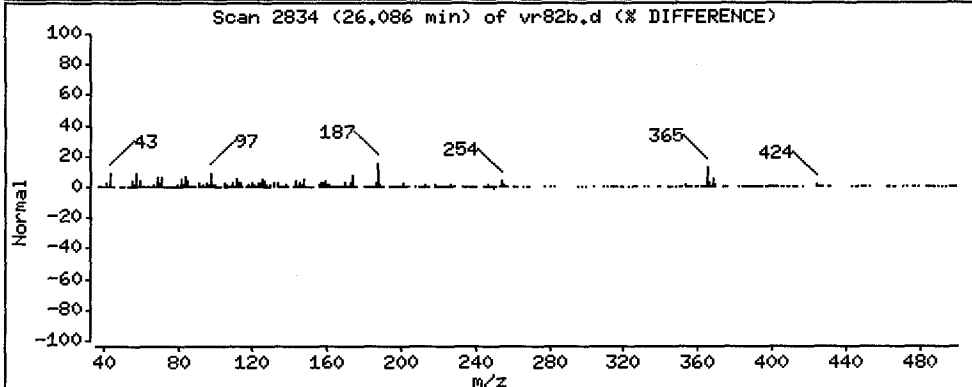
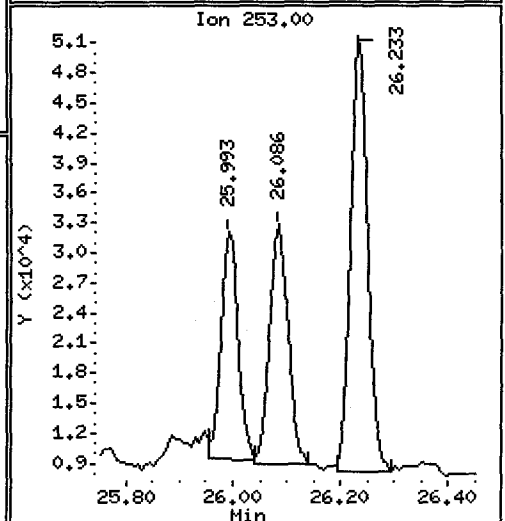
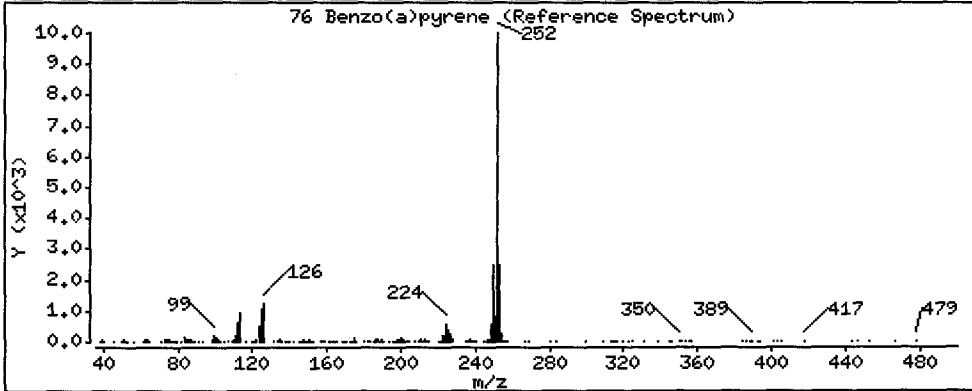
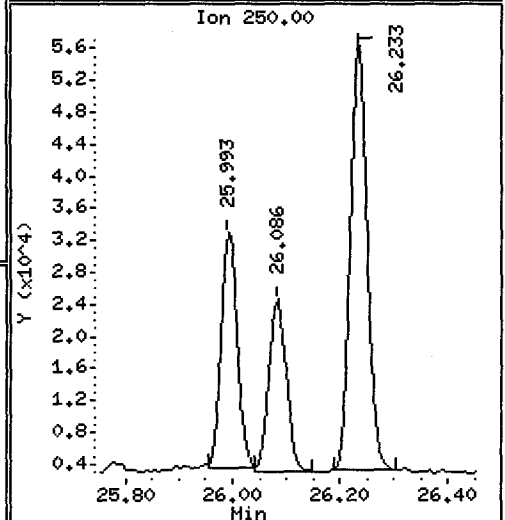
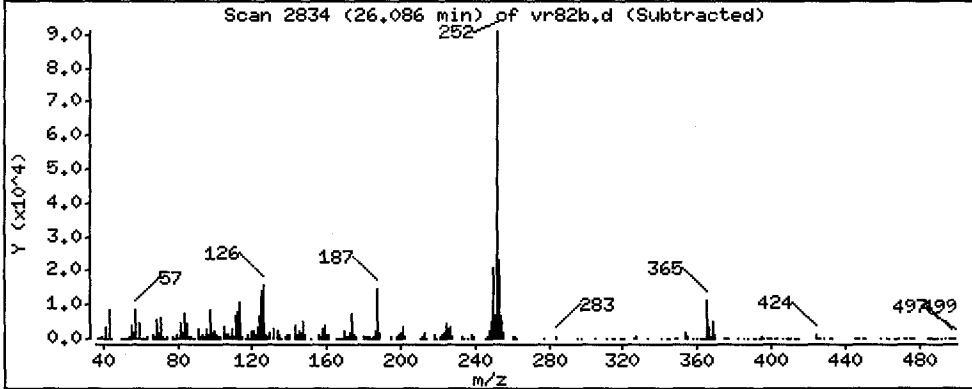
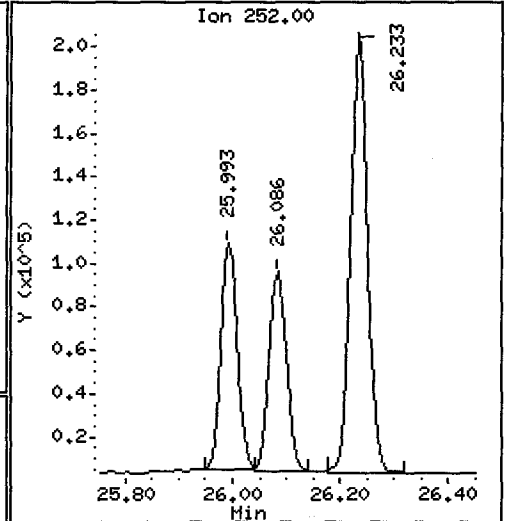
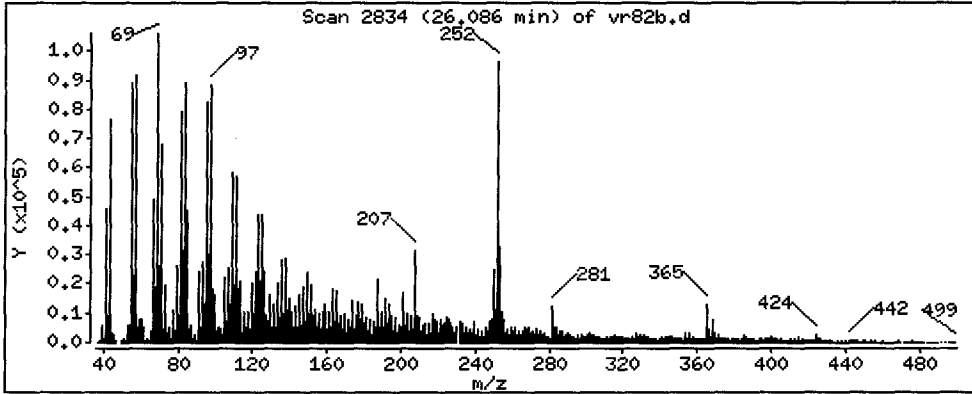
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 155.8 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SC-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

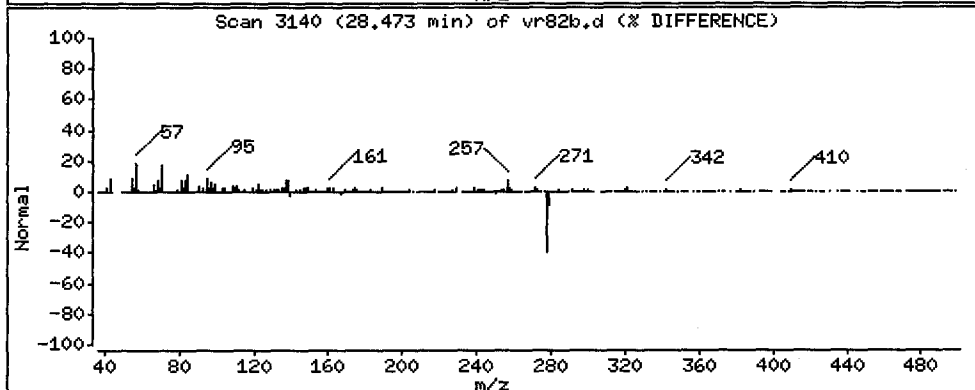
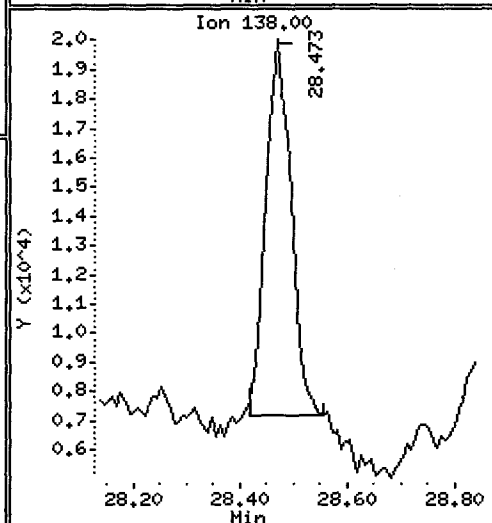
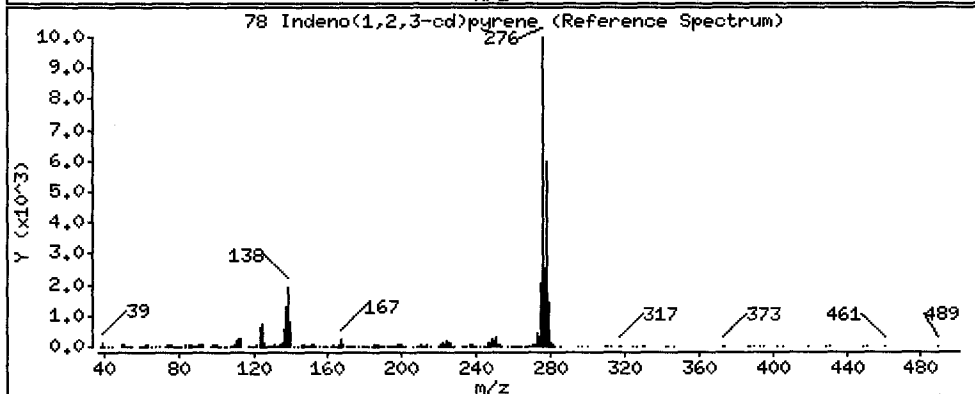
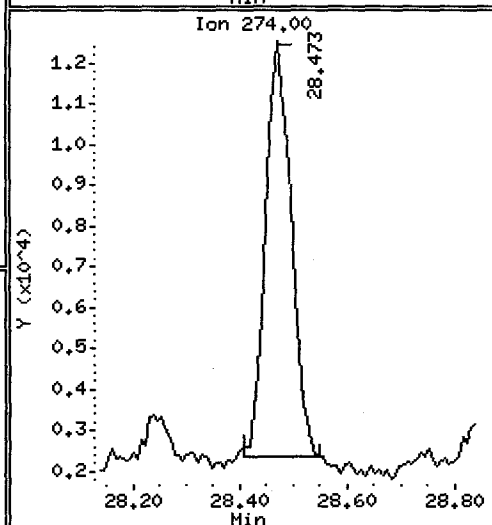
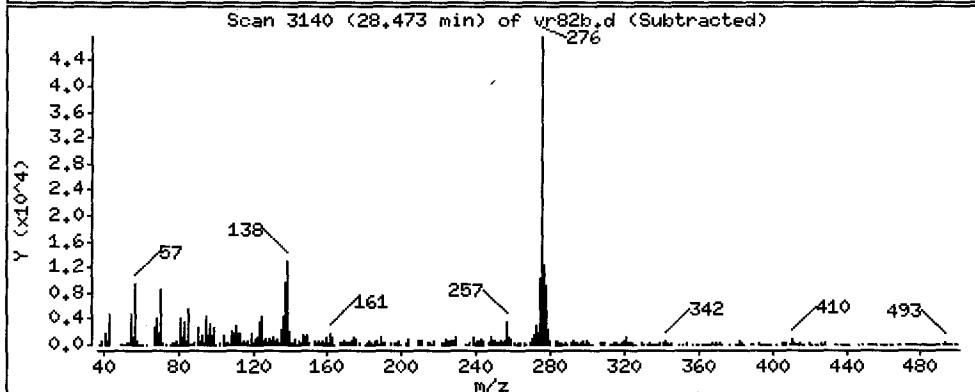
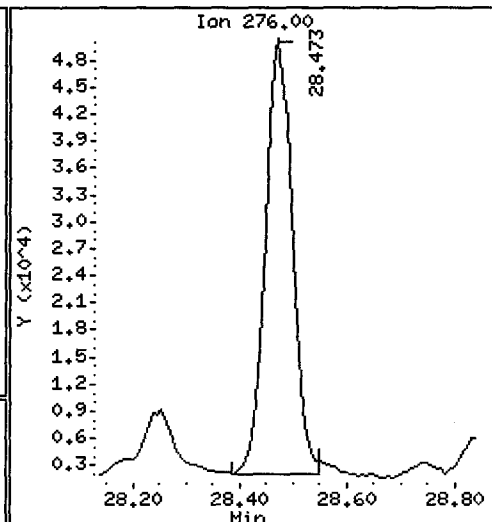
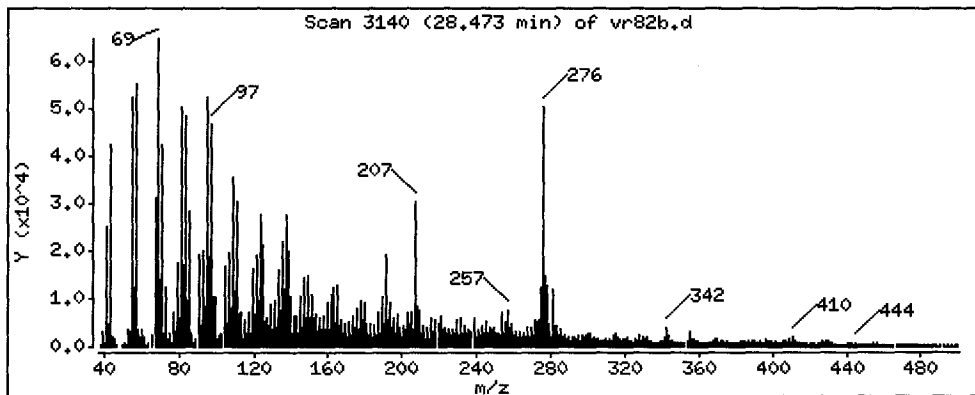
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 110.4 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

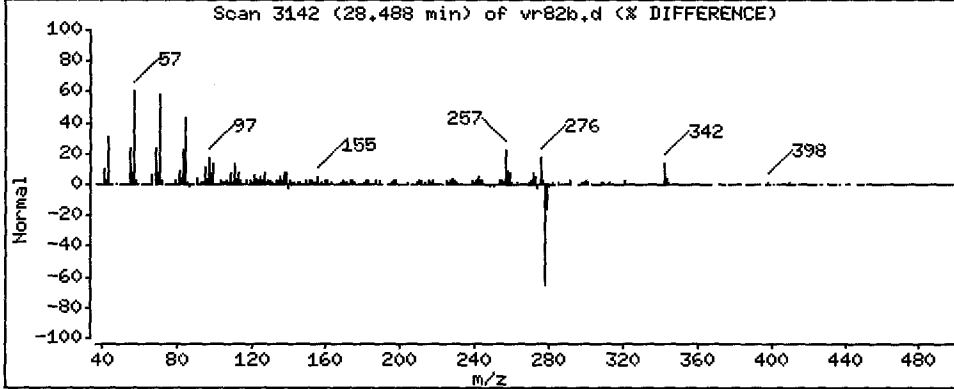
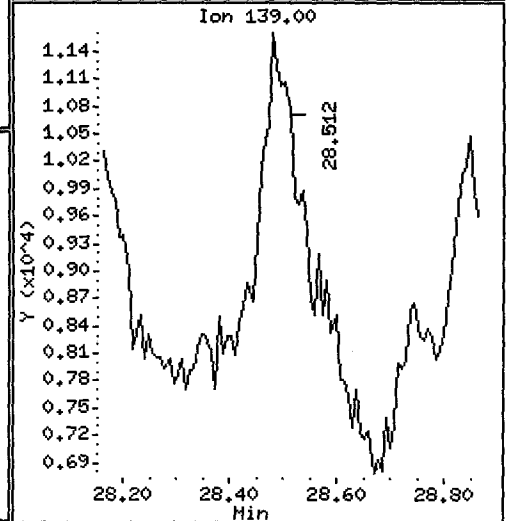
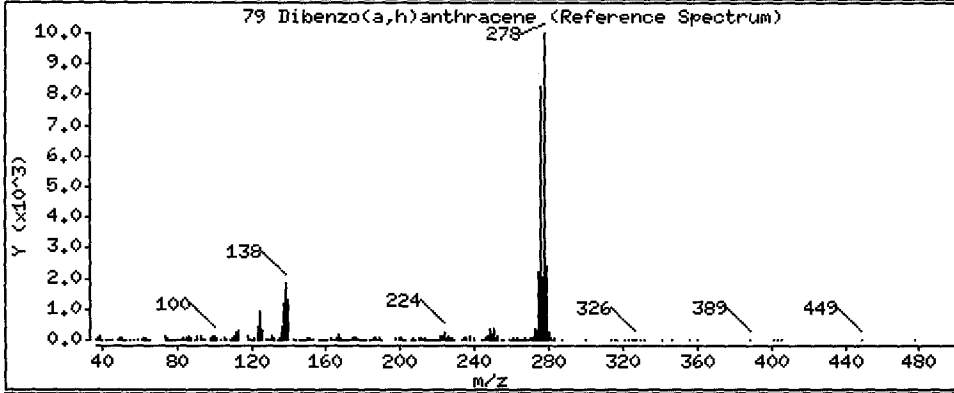
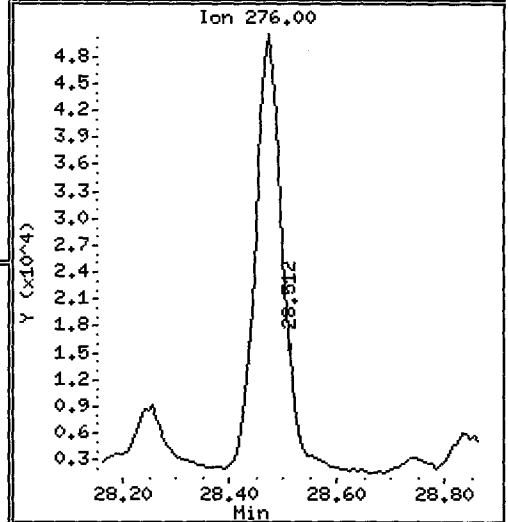
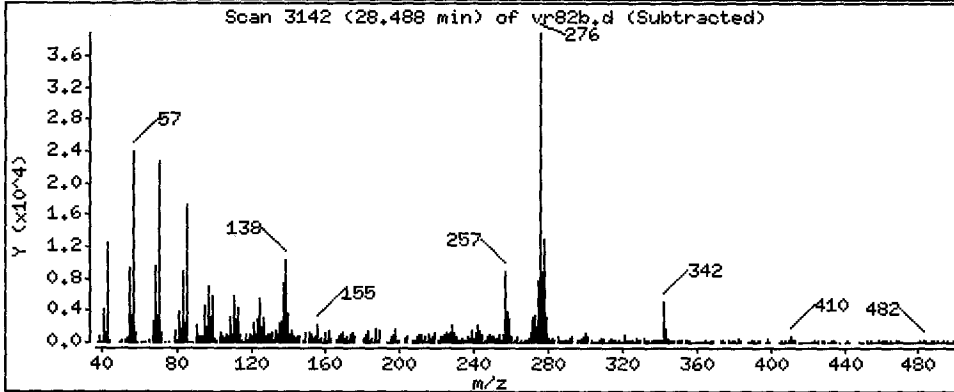
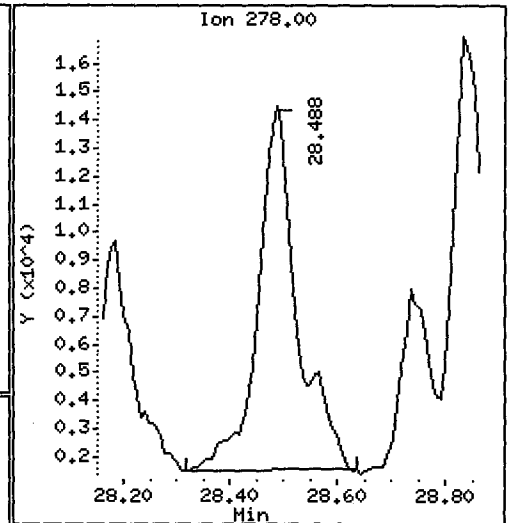
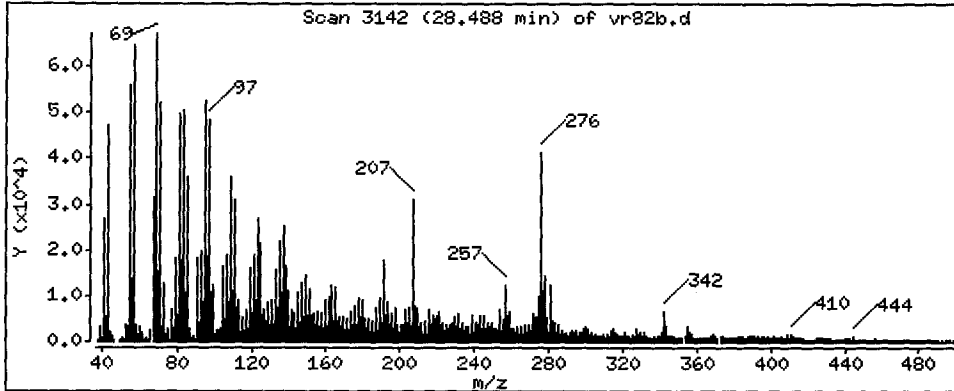
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 55.09 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

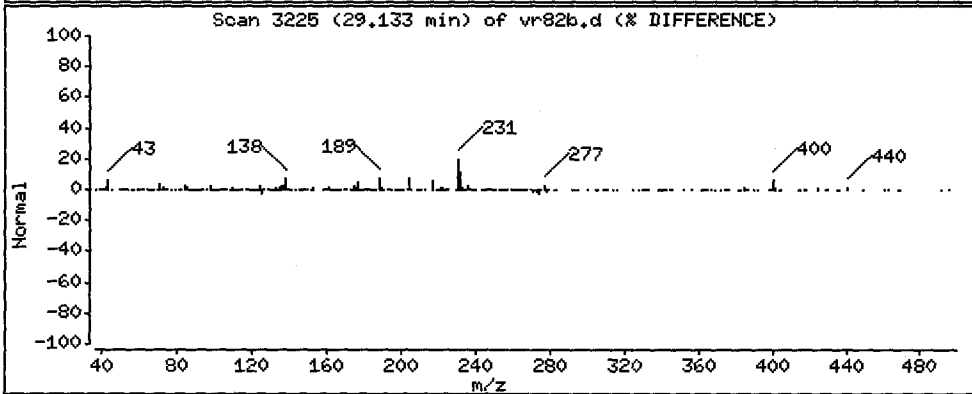
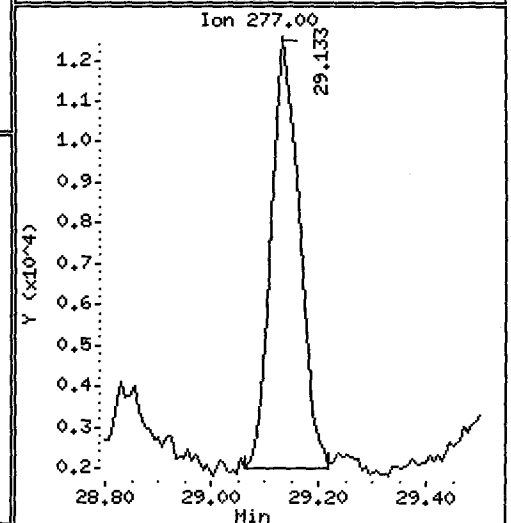
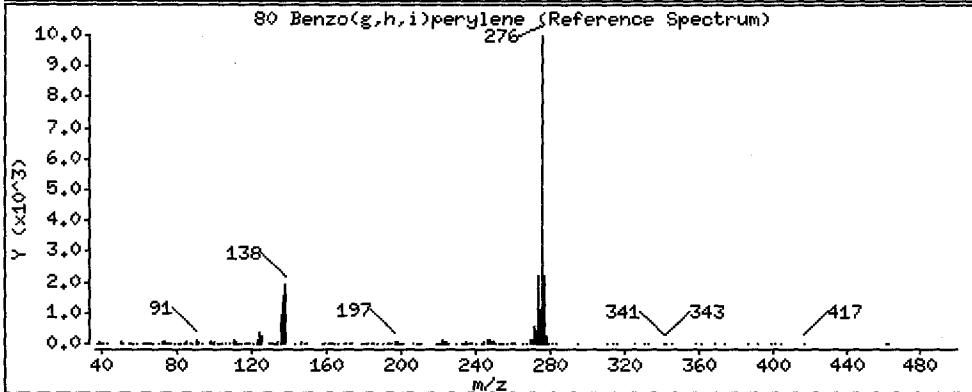
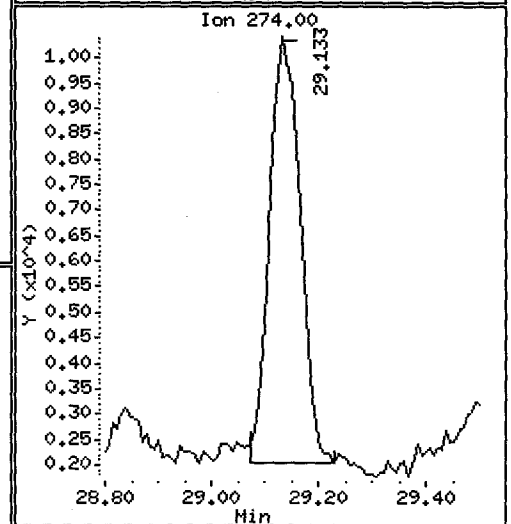
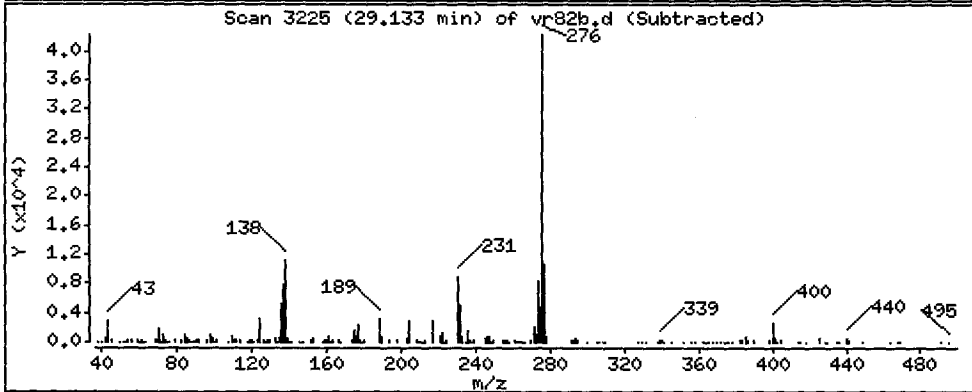
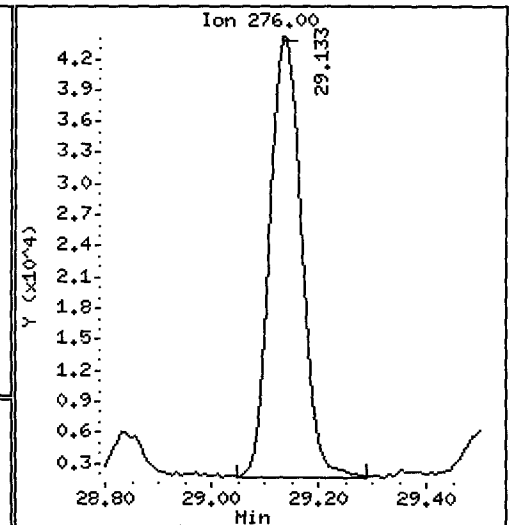
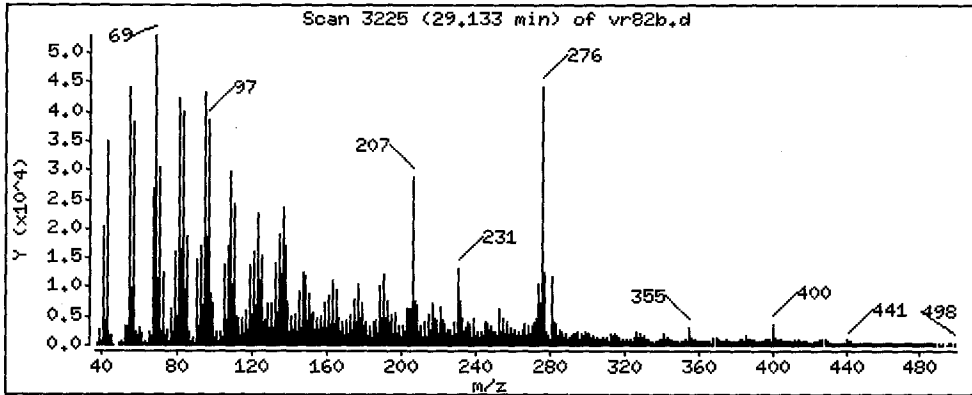
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 132.9 ug/kg



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

Operator: VTS/YZ

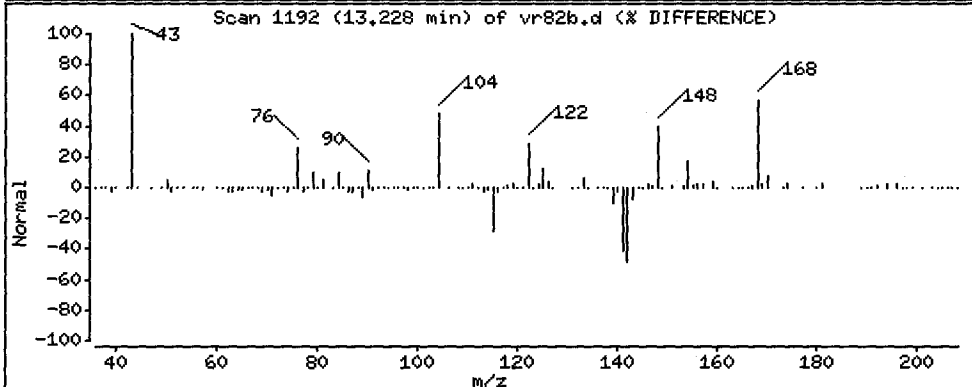
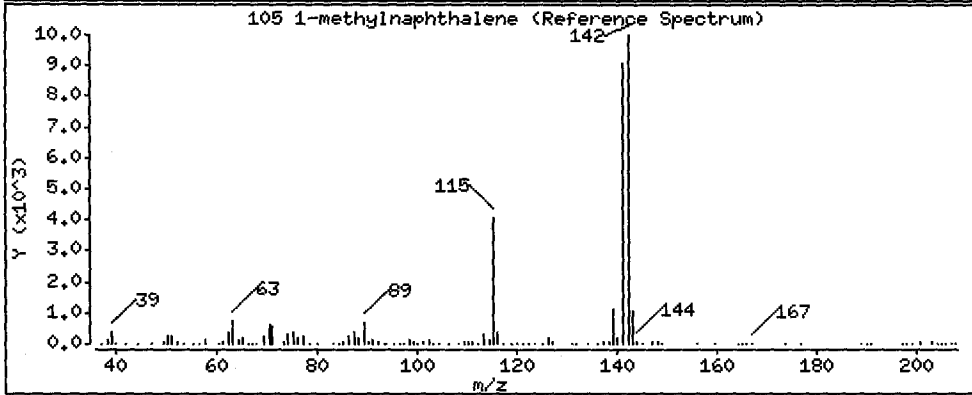
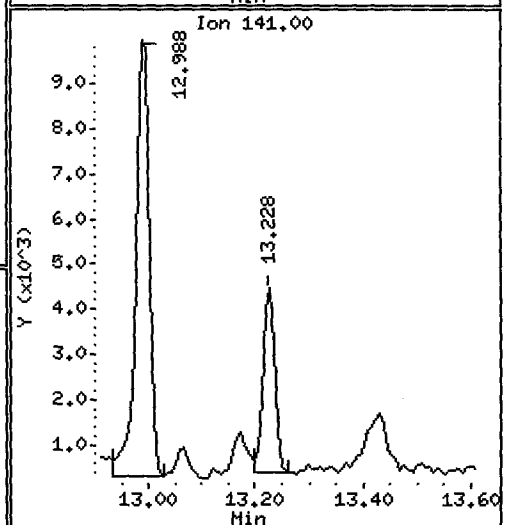
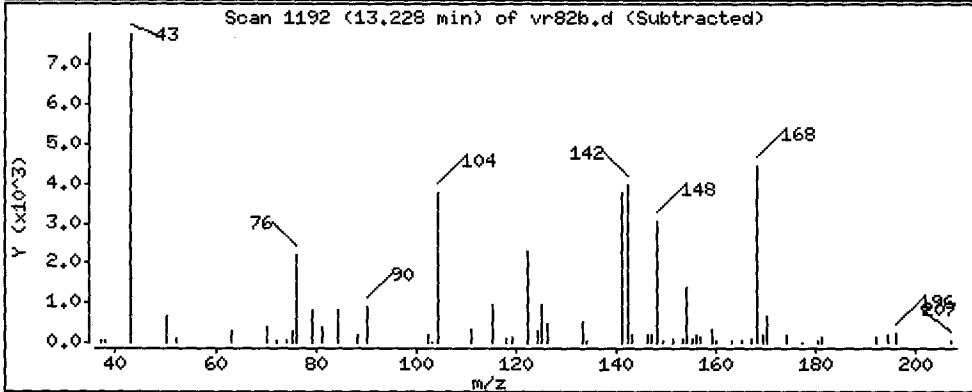
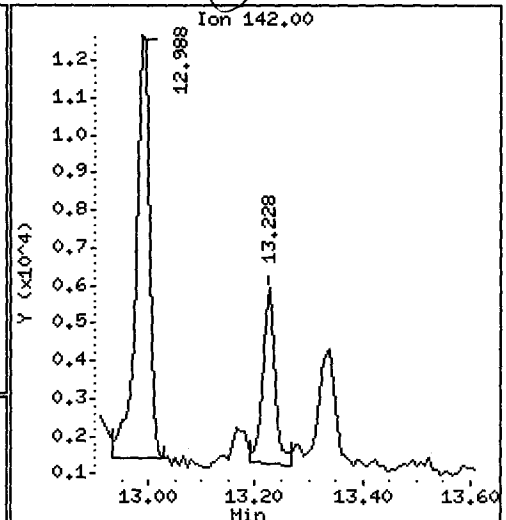
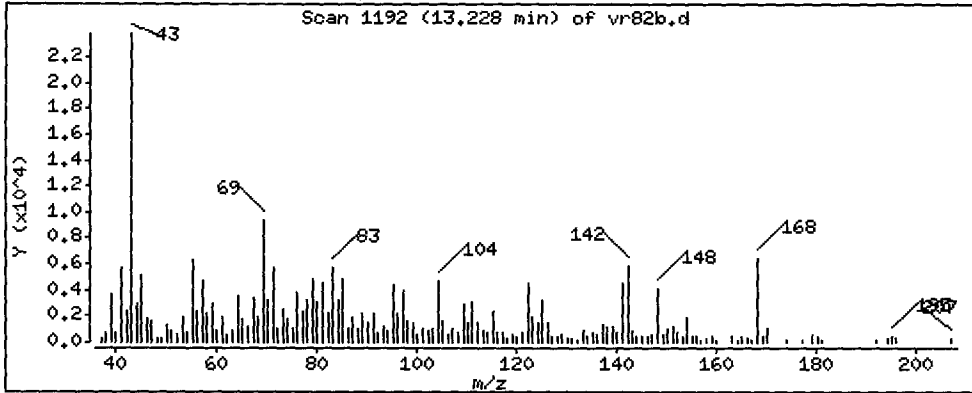
Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 10.30 ug/kg

Handwritten signature



Date : 05-DEC-2012 14:36

Client ID: SG-03-S-C-121108

Instrument: nt10.i

Sample Info: VR82B

Volume Injected (uL): 1.0

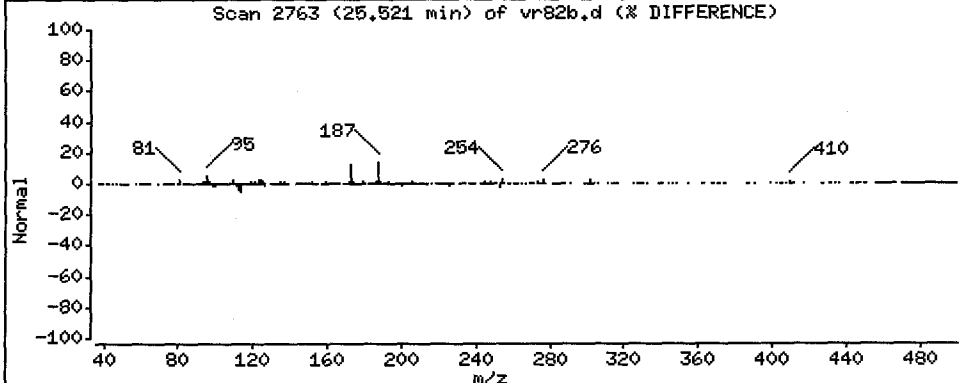
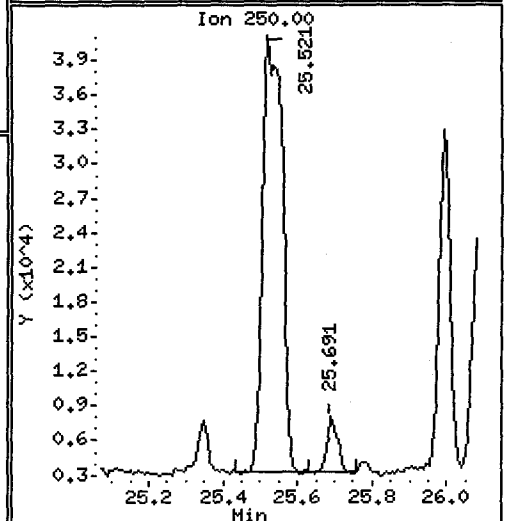
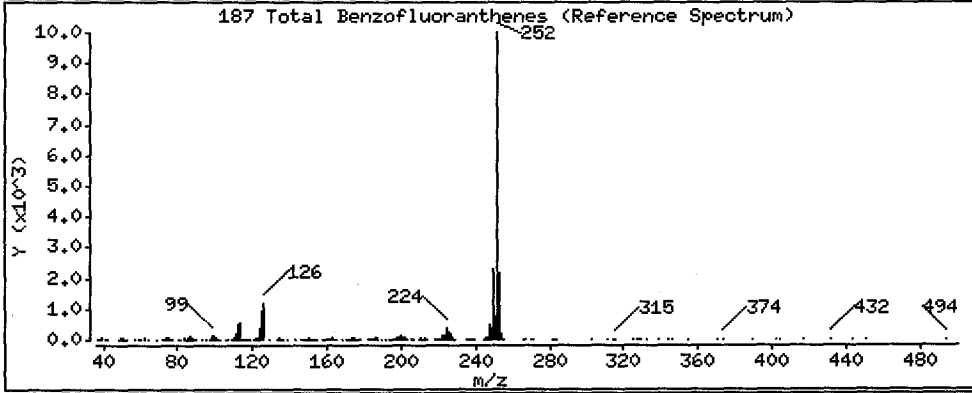
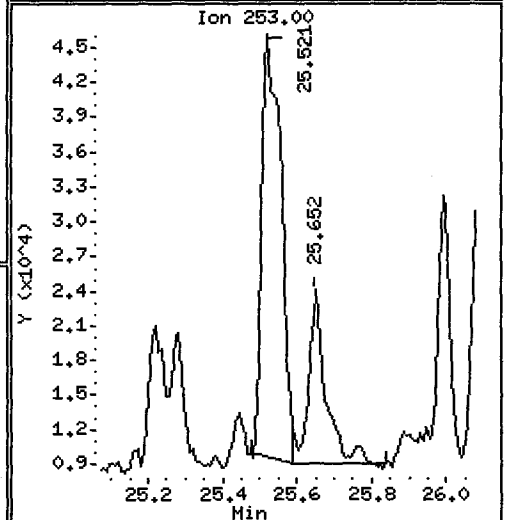
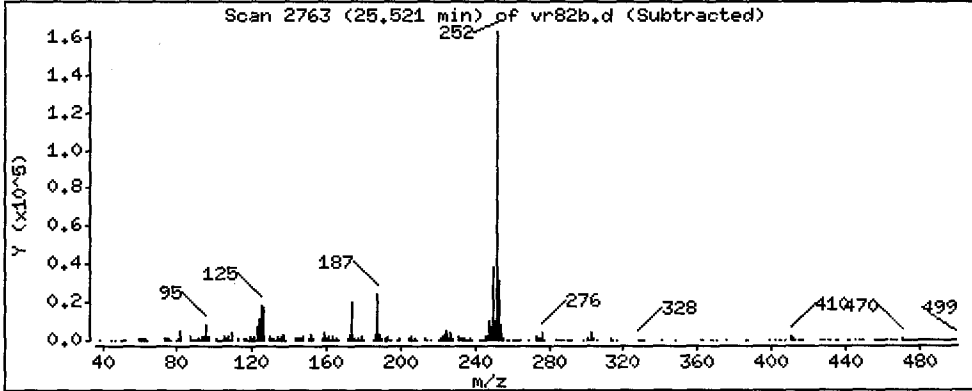
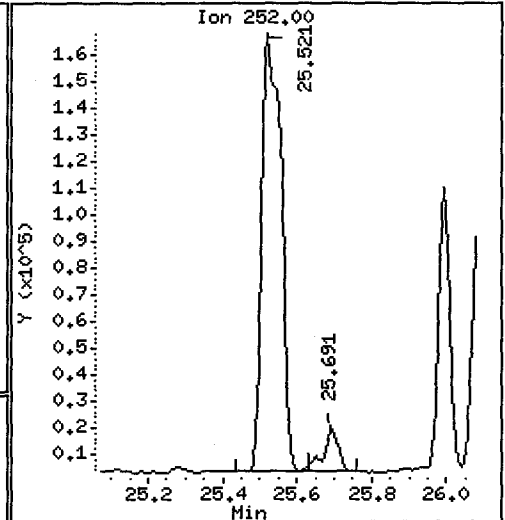
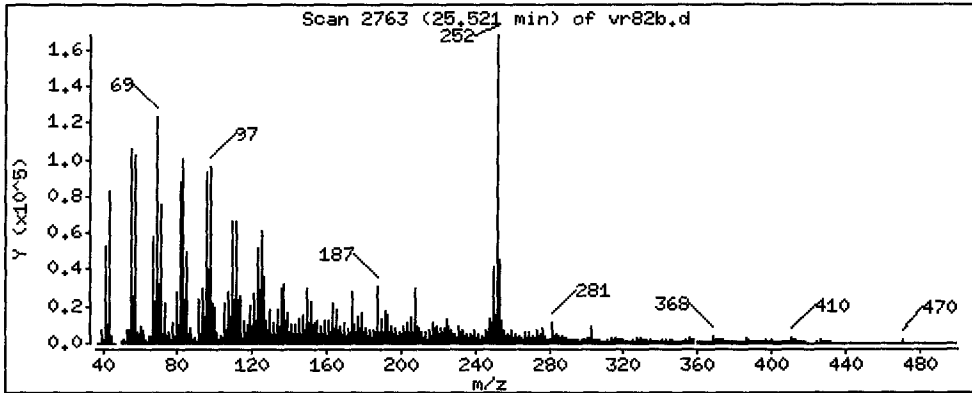
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

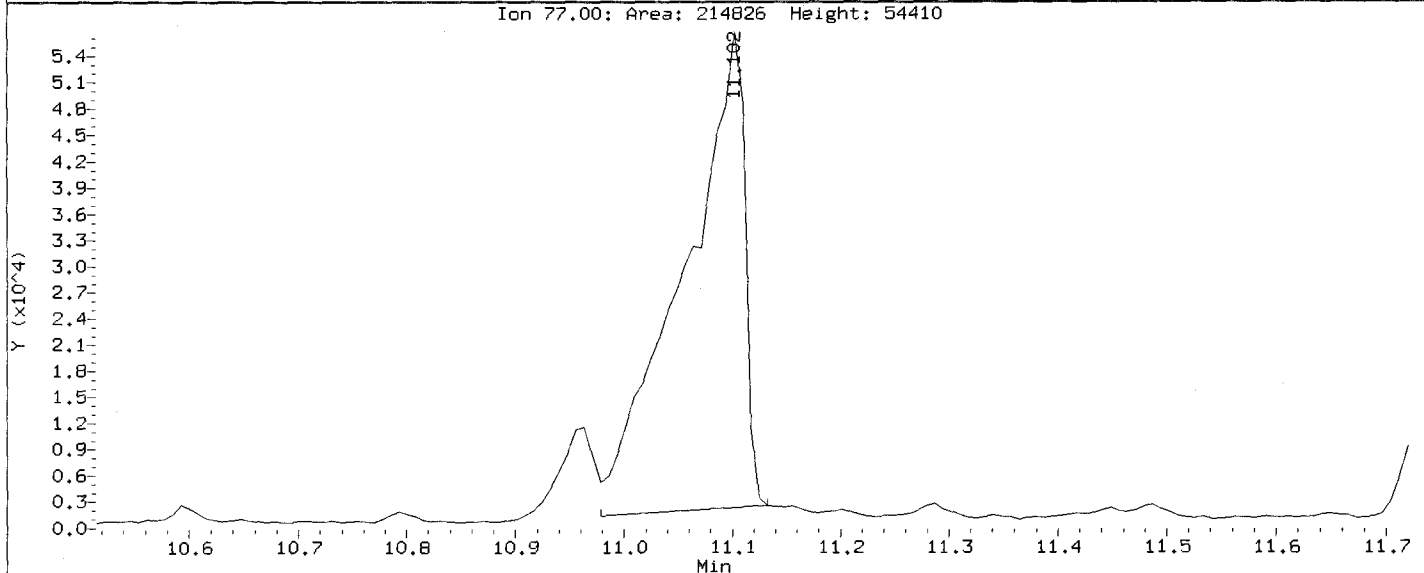
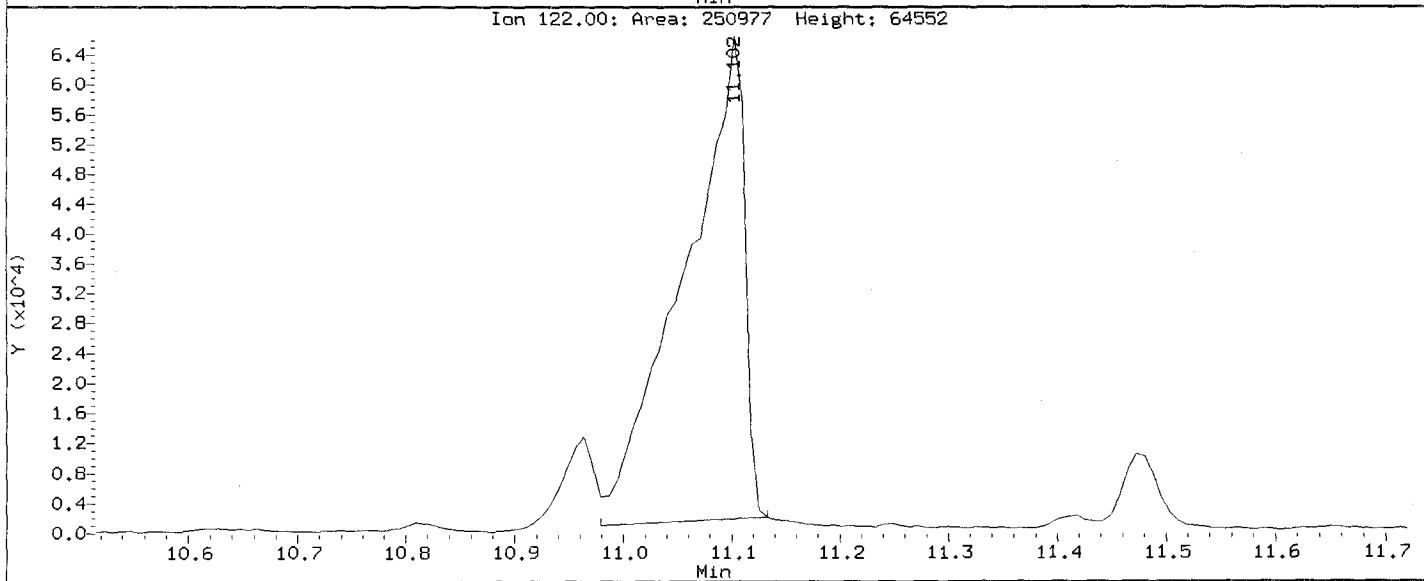
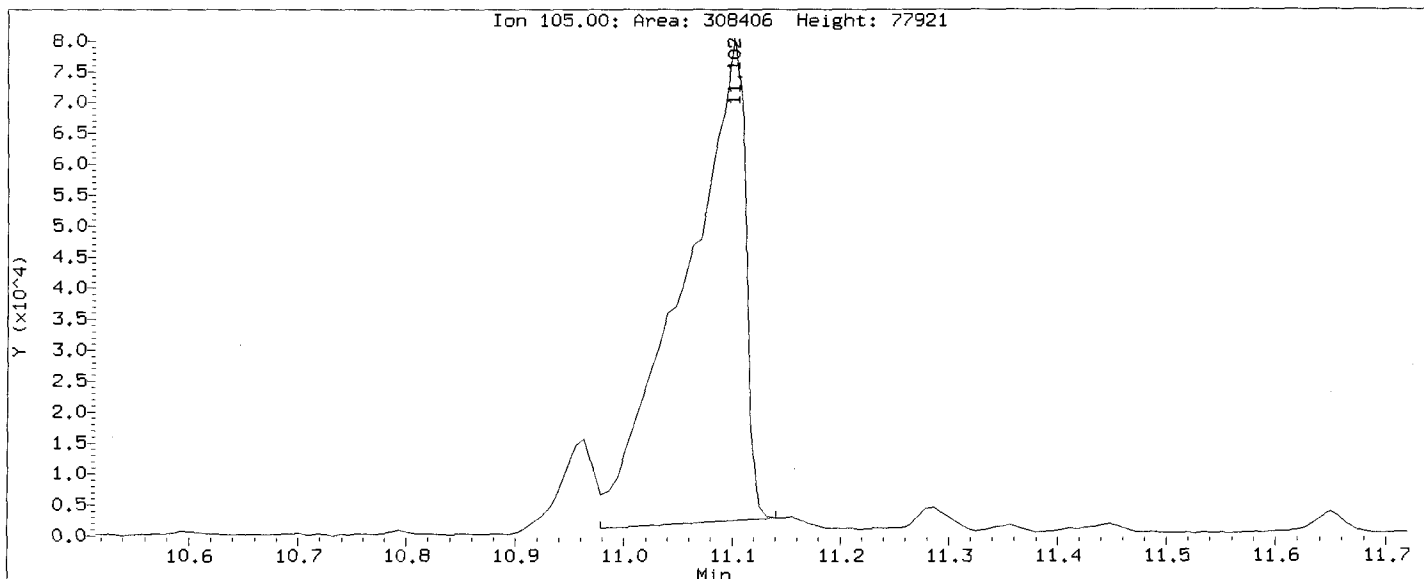
Concentration: 426.3 ug/kg



Data File: /chem1/nt10.i/20121205.b/vr82b.d
Injection Date: 05-DEC-2012 14:36
Instrument: nt10.i
Client Sample ID: SG-03-S-C-121108

UD
12-6-12

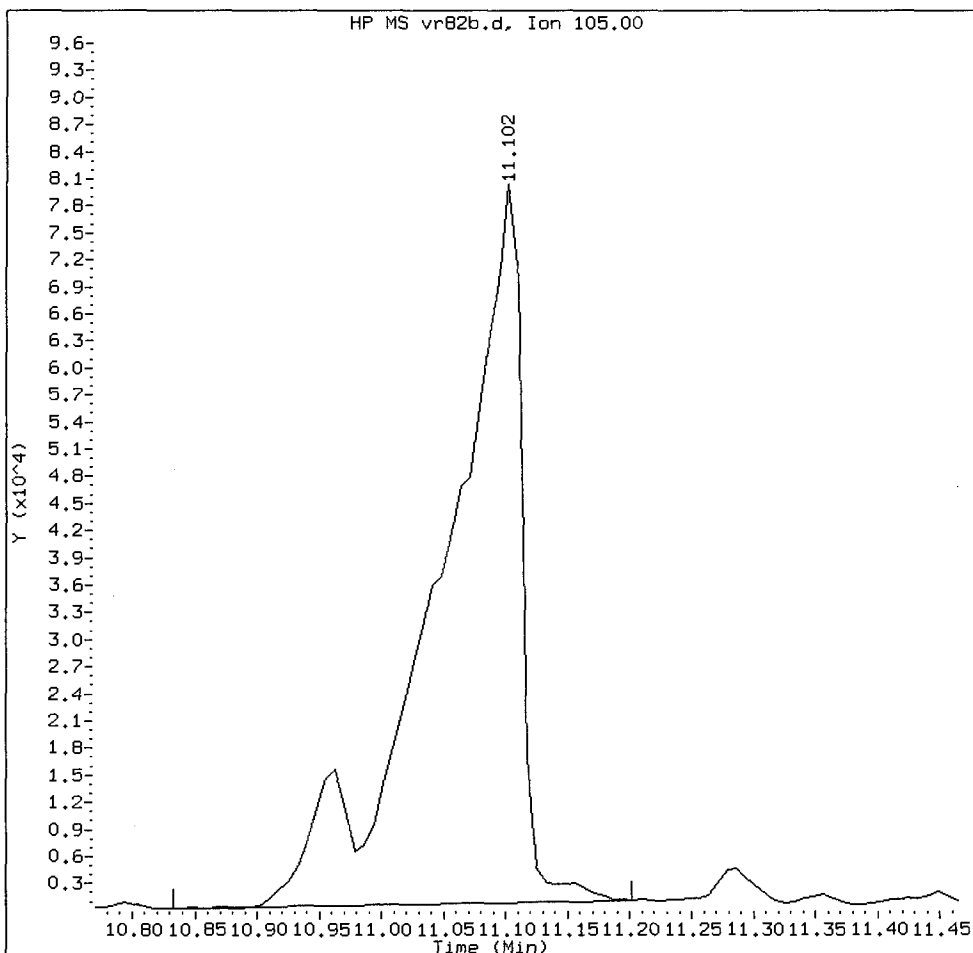
Compound: Benzoic acid
CAS Number: 65-85-0



VR82: 00459

VR82B, /chem1/nt10.i/20121205.b/vr82b.d

Benzoic acid Amount: 13.24 Area: 364744



MANUAL INTEGRATION for Benzoic acid

- ① Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

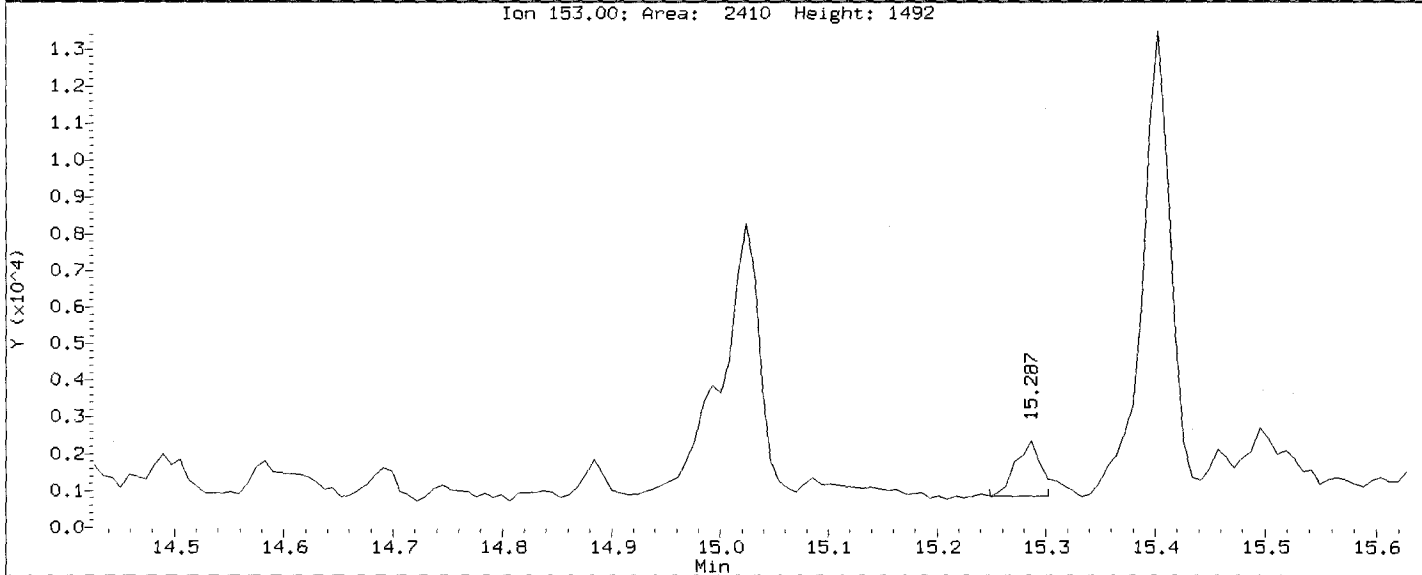
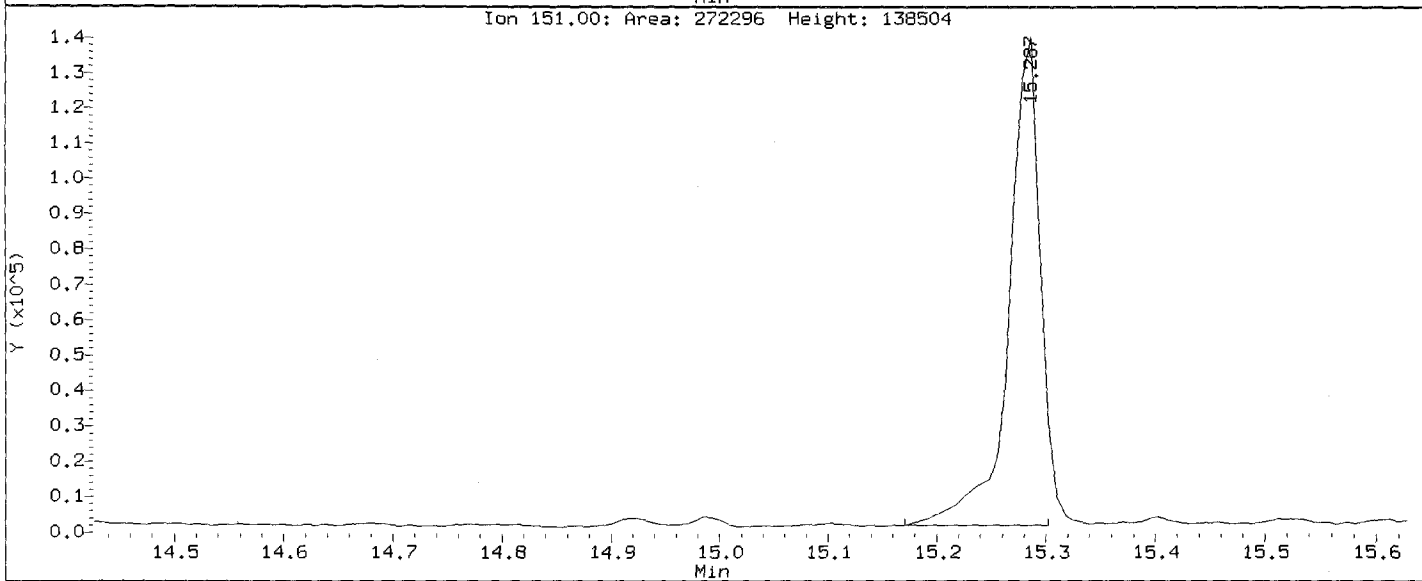
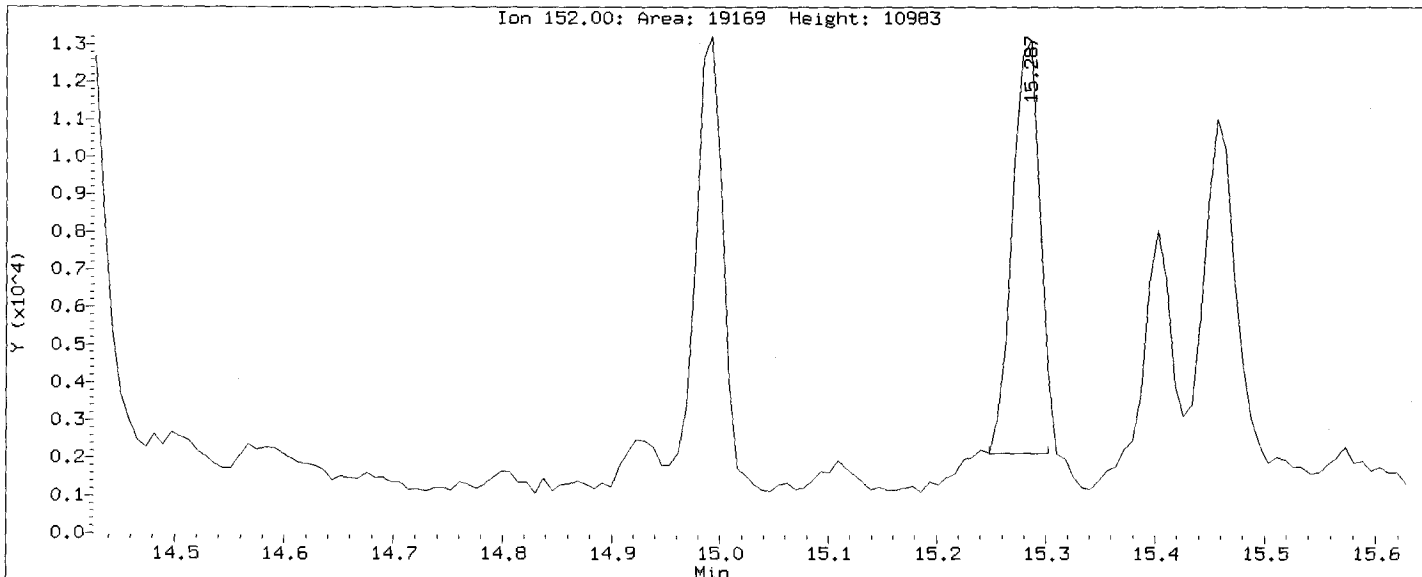
Analyst: VD

Date: 12-6-12

Data File: /chem1/nt10.1/20121205.b/vr82b.d
Injection Date: 05-DEC-2012 14:36
Instrument: nt10.1
Client Sample ID: SG-03-S-C-121108

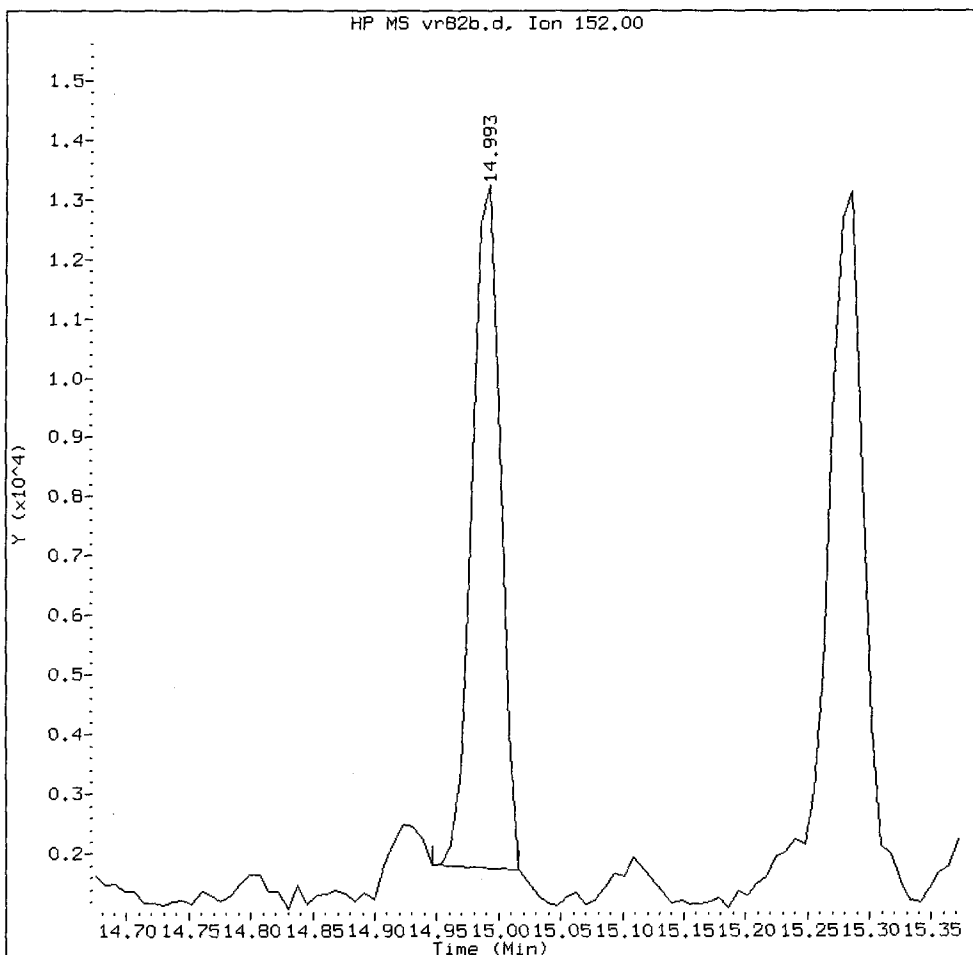
UD
12.6.12

Compound: Acenaphthylene
CAS Number: 208-96-8



VR82B, /chem1/nt10.i/20121205.b/vr82b.d

Acenaphthylene Amount: 0.16 Area: 19018



MANUAL INTEGRATION for Acenaphthylene

- 1. Baseline correction
- 2. Poor chromatography
- ③ Peak not found
- 4. Totals calculation
- 5. Other _____

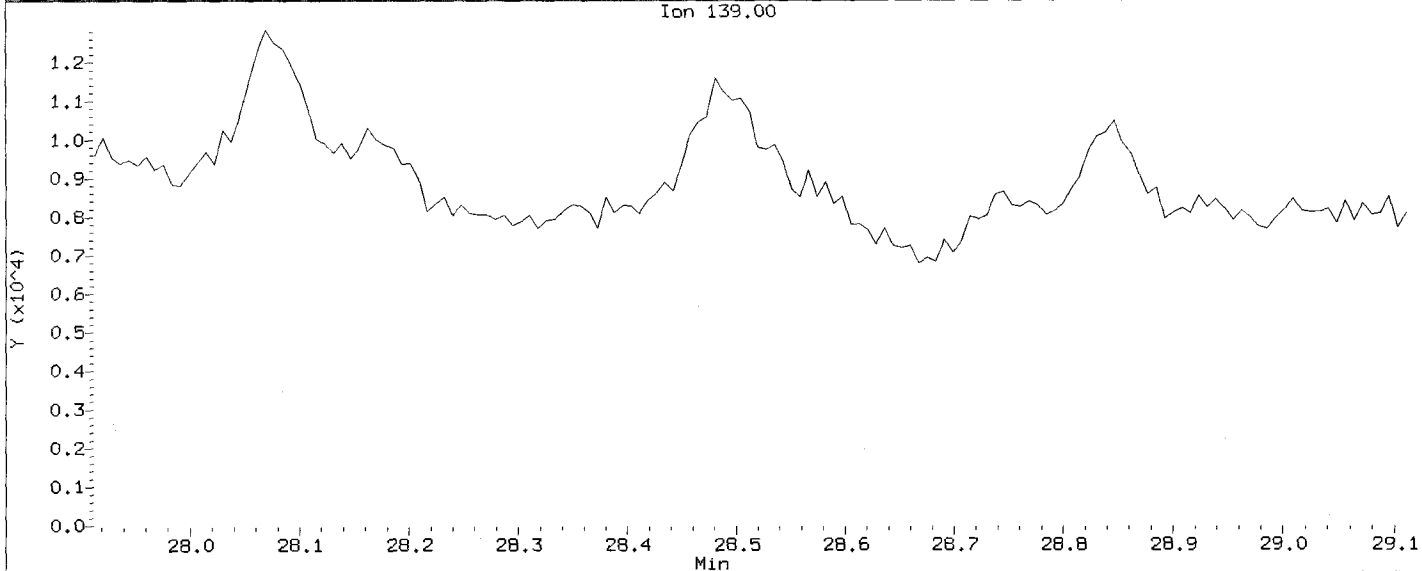
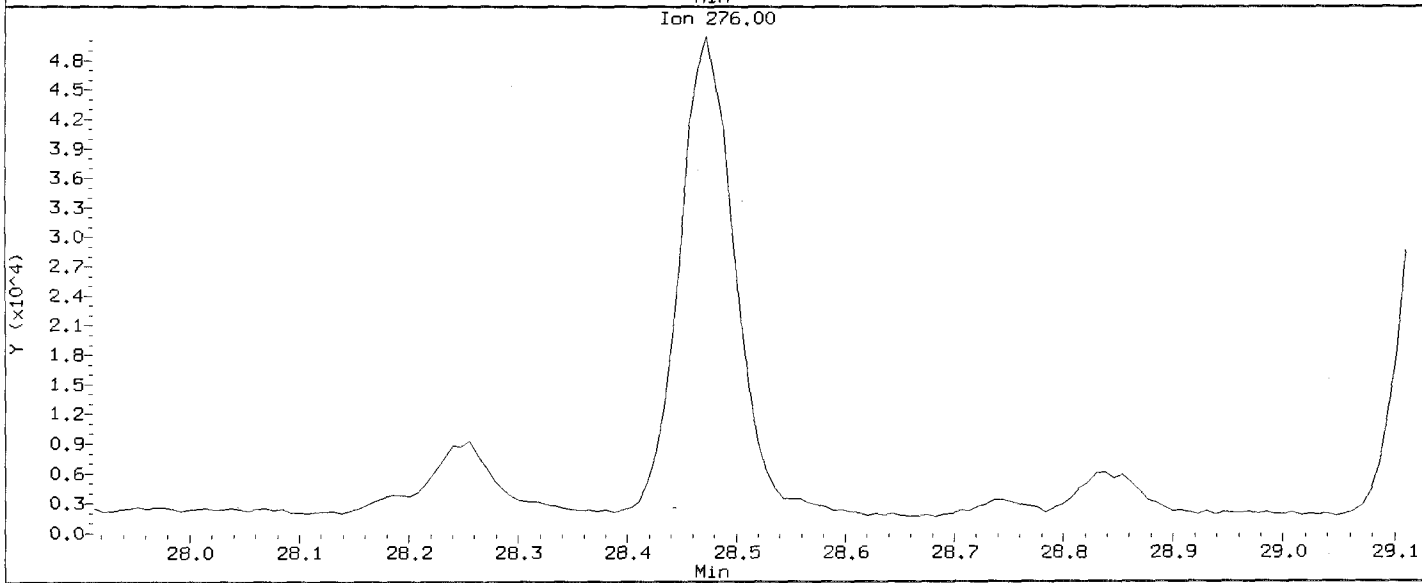
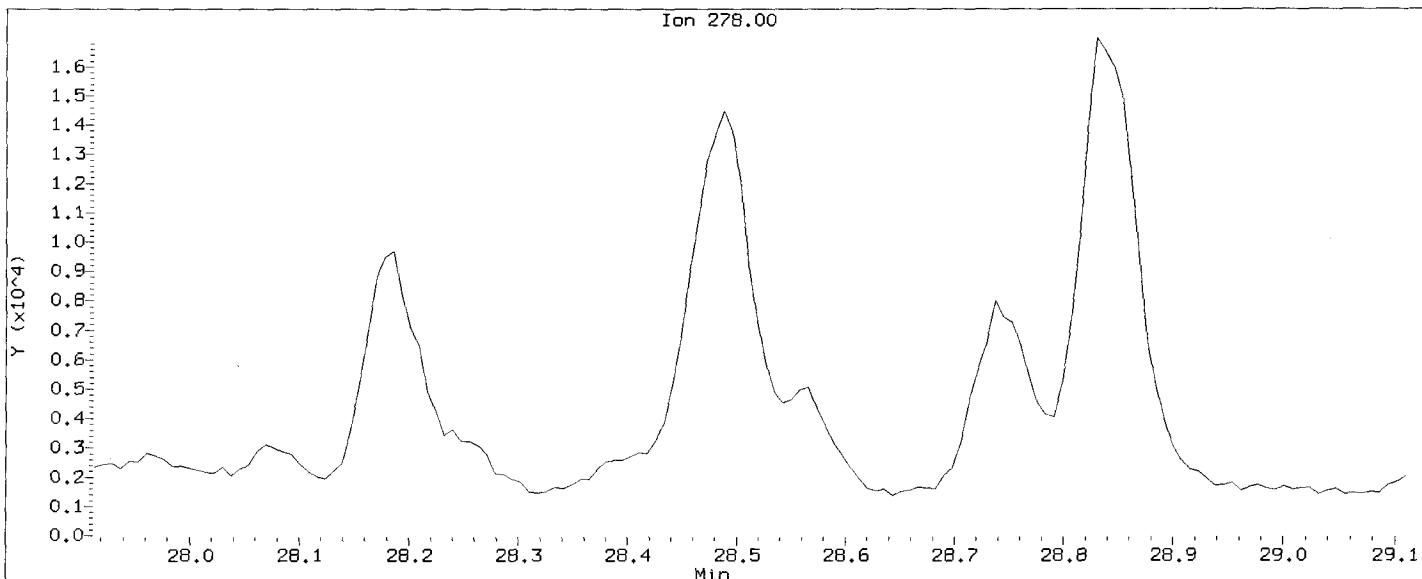
Analyst: VID

Date: 12/6/12

Data File: /chem1/nt10.1/20121205.b/vr82b.d
Injection Date: 05-DEC-2012 14:36
Instrument: nt10.i
Client Sample ID: SG-03-S-C-121108

VR
12.6.12

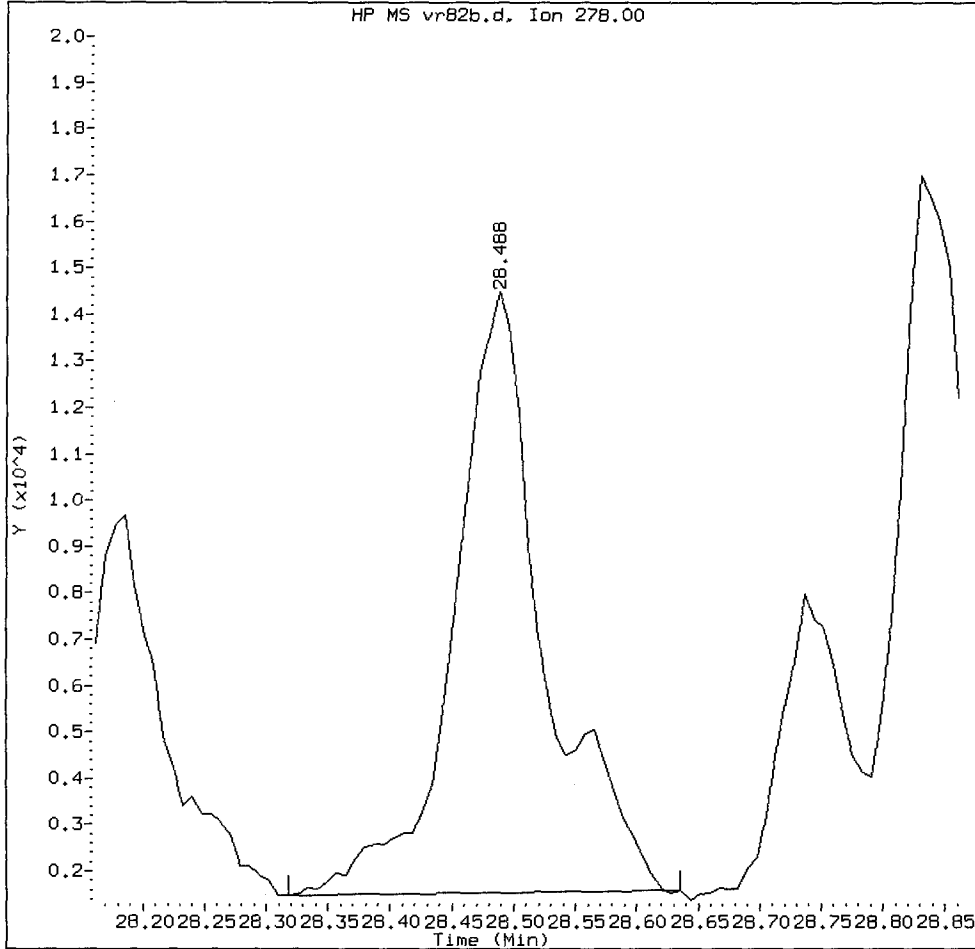
Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



VR82: 00453

VR82B, /chem1/nt10.i/20121205.b/vr82b.d

Dibenzo(a,h)anthracene Amount: 0.56 Area: 66451



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- ③ Peak not found
- 4. Totals calculation

5. Other _____

Analyst: VB

Date: 12-6-12

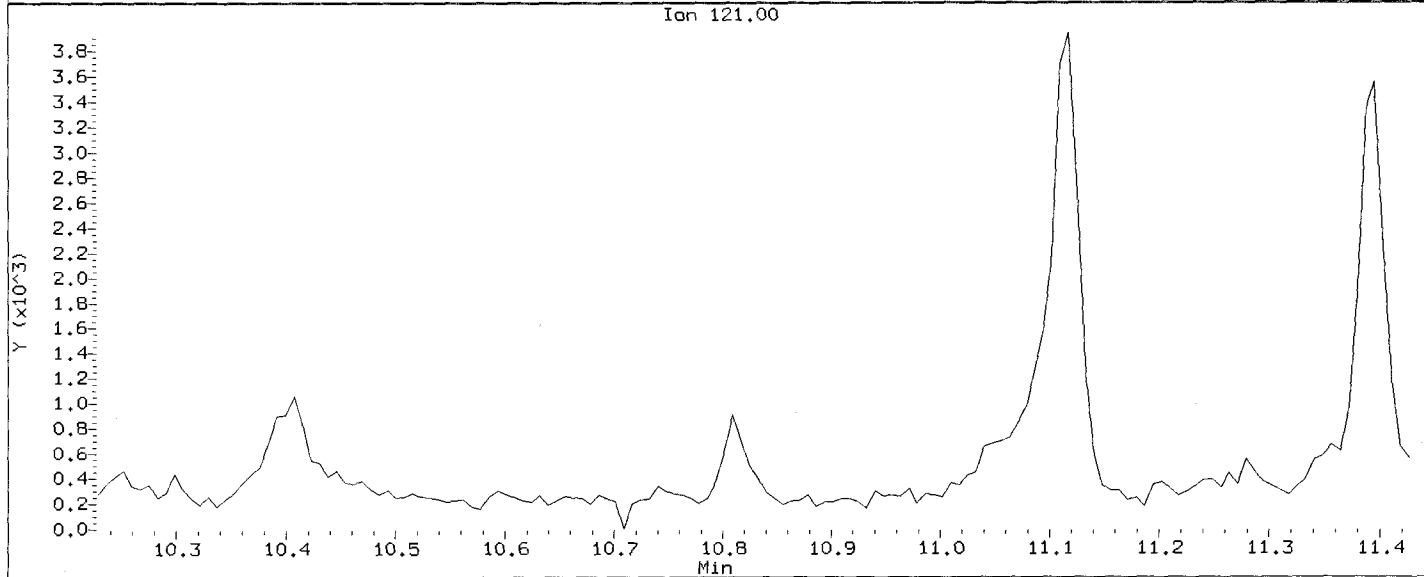
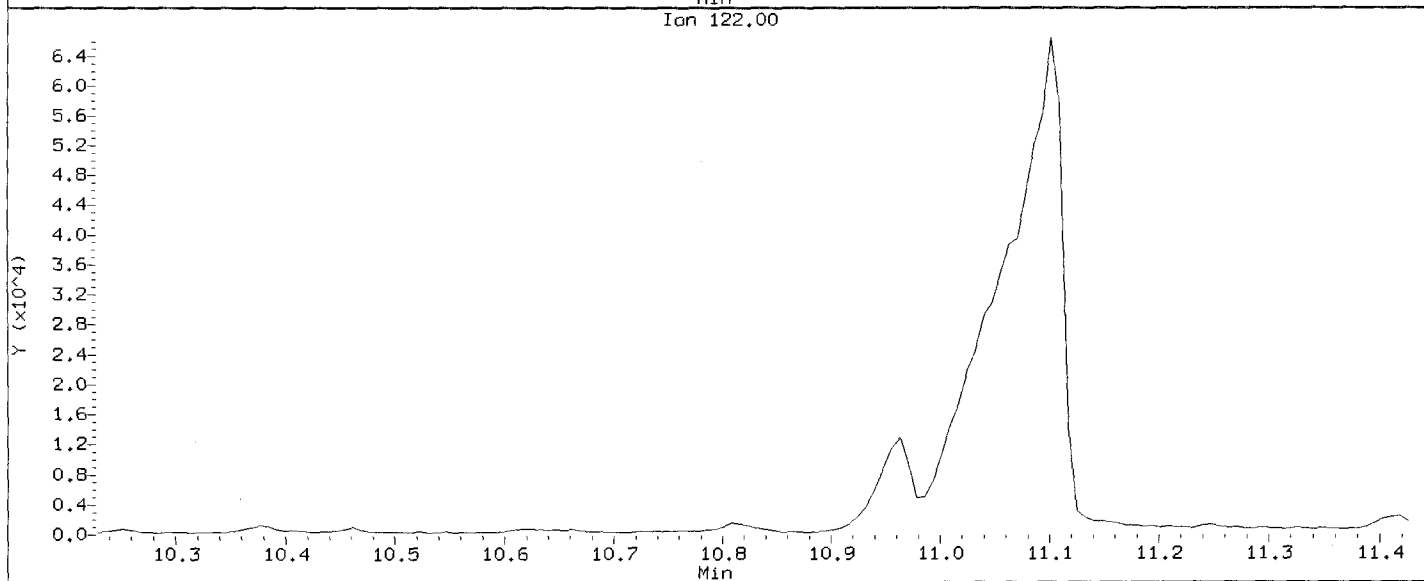
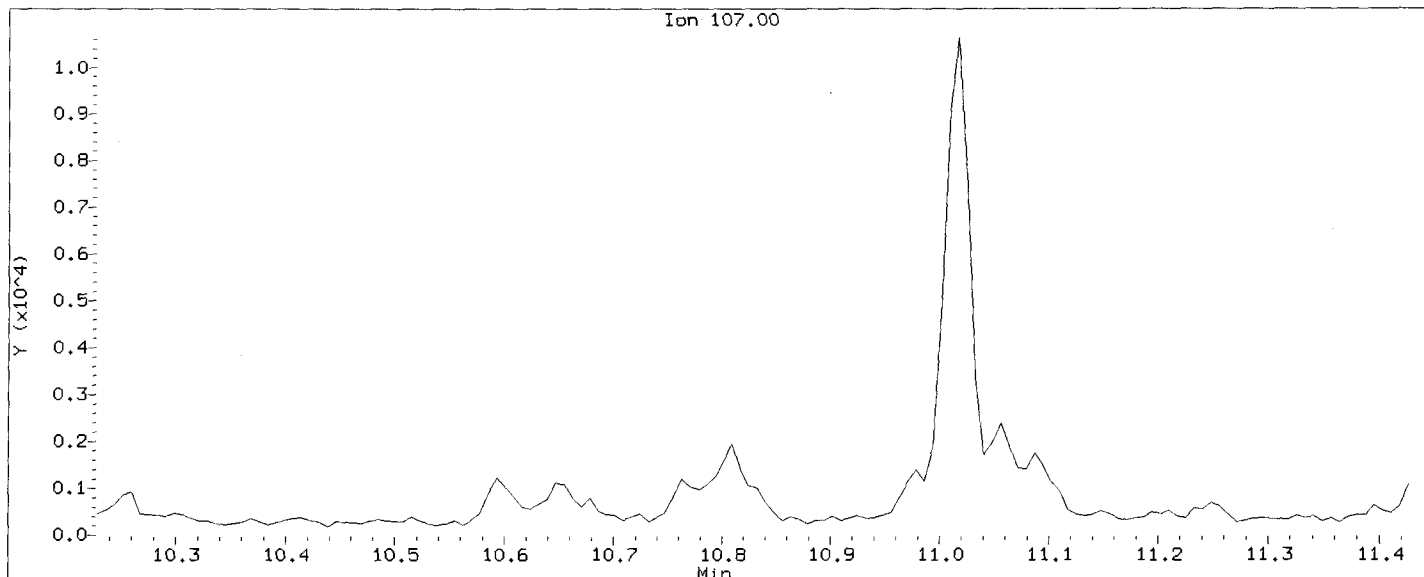
CO-ELUTION SUMMARY FOR FILE - vr82b.d

Lab ID: VR82B, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82b.d
Injection Date: 05-DEC-2012 14:36
Instrument: nt10.i
Client Sample ID: SG-03-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82c.d
 Lab Smp Id: VR82C Client Smp ID: SG-04-S-C-121108
 Inj Date : 05-DEC-2012 15:13
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82C
 Misc Info : 12-22481
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	12.10000	Weight of sample extracted (g)
M	15.80000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.490	6.474	(0.739)	175406	4.91141	482.1	
\$ 2 Phenol-d5	99	8.198	8.205	(0.933)	229921	5.20272	510.7	
3 Phenol	94				Compound Not Detected.			
\$ 5 2-Chlorophenol-d4	132	8.414	8.429	(0.958)	195645	5.11669	502.2	
7 1,3-Dichlorobenzene	146				Compound Not Detected.			
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	111644	4.00000		
9 1,4-Dichlorobenzene	146				Compound Not Detected.			
\$ 10 1,2-Dichlorobenzene-d4	152	9.165	9.189	(1.043)	91120	3.26815	320.8	
12 1,2-Dichlorobenzene	146				Compound Not Detected.			
11 Benzyl alcohol	108				Compound Not Detected.			
13 2-Methylphenol	108				Compound Not Detected.			
17 Hexachloroethane	117				Compound Not Detected.			
15 4-Methylphenol	108				Compound Not Detected.			
\$ 18 Nitrobenzene-d5	82	9.965	9.988	(0.871)	131404	3.27188	321.1	
22 2,4-Dimethylphenol	107				Compound Not Detected.			

Compounds	QUANT	SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
									ON-COLUMN	FINAL
	MASS								(ug/mL)	(ug/kg)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====	=====
24 Benzoic acid	105							Compound Not Detected.		
26 1,2,4-Trichlorobenzene	180							Compound Not Detected.		
* 27 Naphthalene-d8	136		11.442	11.472	(1.000)		428605	4.00000		
28 Naphthalene	128							Compound Not Detected.		
30 Hexachlorobutadiene	225							Compound Not Detected.		
32 2-Methylnaphthalene	142							Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.847	13.894	(0.904)		296733	3.39841	333.6	
39 Dimethylphthalate	163							Compound Not Detected.		
40 Acenaphthylene	152							Compound Not Detected.		
* 42 Acenaphthene-d10	164		15.326	15.372	(1.000)		246698	4.00000		
44 Acenaphthene	153		15.395	15.441	(1.005)		9156	0.13738	13.48	
46 Dibenzofuran	168							Compound Not Detected.		
50 Diethylphthalate	149		16.431	16.493	(1.072)		9571	0.11474	11.26	
49 Fluorene	166		16.524	16.570	(1.078)		11549	0.14074	13.81	
54 N-Nitrosodiphenylamine	169							Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		17.110	17.156	(1.116)		77592	5.33944	524.1	
57 Hexachlorobenzene	284							Compound Not Detected.		
58 Pentachlorophenol	266							Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.609	18.656	(1.000)		414547	4.00000		
60 Phenanthrene	178		18.656	18.702	(1.002)		146220	1.42458	139.8	
61 Anthracene	178		18.756	18.803	(1.008)		29364	0.26616	26.12	
63 Di-n-butylphthalate	149							Compound Not Detected.		
64 Fluoranthene	202		21.101	21.139	(1.134)		295979	2.28778	224.6	
65 Pyrene	202		21.518	21.565	(0.907)		256857	1.97600	194.0	
\$ 66 Terphenyl-d14	244		21.851	21.898	(0.921)		351143	4.04125	396.7	
67 Butylbenzylphthalate	149							Compound Not Detected.		
68 Benzo(a)anthracene	228		23.702	23.748	(0.999)		104500	0.82864	81.33	
* 69 Chrysene-d12	240		23.733	23.771	(1.000)		443708	4.00000		
71 Chrysene	228		23.771	23.818	(1.002)		128436	1.14639	112.5	
72 bis(2-Ethylhexyl)phthalate	149		23.872	23.918	(0.961)		52559	0.63046	61.88	
* 134 Di-n-octylphthalate-d4	153		24.848	24.902	(1.000)		604196	4.00000		
73 Di-n-octylphthalate	149							Compound Not Detected.		
76 Benzo(a)pyrene	252		26.055	26.102	(0.996)		76459	0.62871	61.71	
* 77 Perylene-d12	264		26.156	26.210	(1.000)		426125	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.411	28.489	(1.086)		55461	0.40240	39.50	
79 Dibenzo(a,h)anthracene	278		28.419	28.512	(1.087)		16418	0.15010	14.73	
80 Benzo(g,h,i)perylene	276		29.064	29.149	(1.111)		51832	0.43942	43.13	
105 1-methylnaphthalene	142							Compound Not Detected.		
187 Total Benzofluoranthenes	252		25.490	25.575	(0.975)		178830	1.42608	140.0	
98 Retene	219							Compound Not Detected.		
120 2,3,4,6-Tetrachlorophenol	232							Compound Not Detected.		

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82c.d
 Lab Smp Id: VR82C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-04-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	111644	36.87
27 Naphthalene-d8	299399	149700	598798	428605	43.16
42 Acenaphthene-d10	178564	89282	357128	246698	38.16
59 Phenanthrene-d10	305410	152705	610820	414547	35.73
69 Chrysene-d12	323853	161926	647706	443708	37.01
134 Di-n-octylphthala	427845	213922	855690	604196	41.22
77 Perylene-d12	305316	152658	610632	426125	39.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.26
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.61	-0.25
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.85	-0.22
77 Perylene-d12	26.21	25.71	26.71	26.16	-0.21

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.

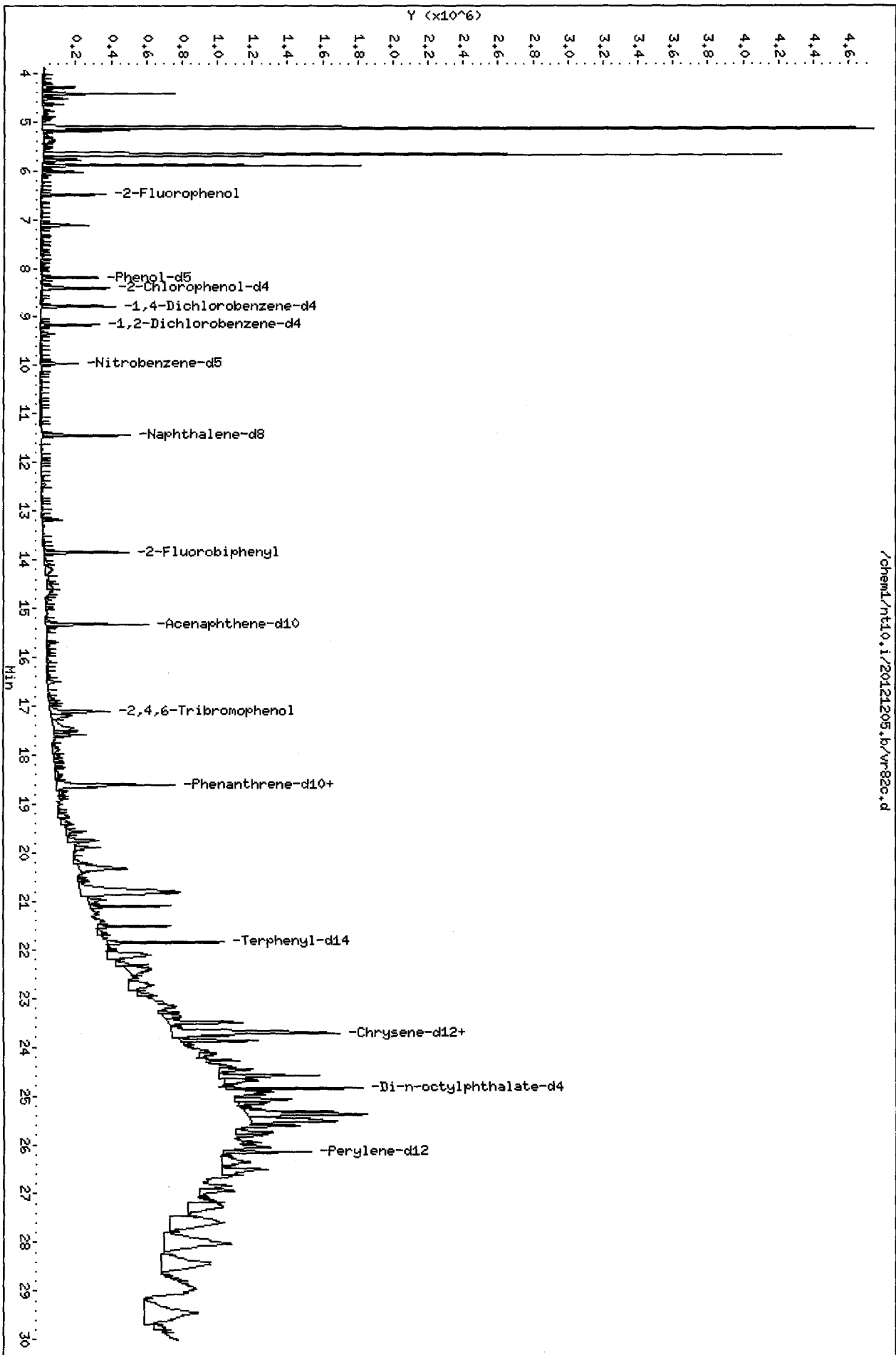
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.
Sample Matrix: SOLID
Lab Smp Id: VR82C
Level: LOW
Data Type: MS DATA
SpikeList File: SHORTPSDDA.spk
Sublist File: SHORTPSDDA.sub
Method File: /chem1/nt10.i/20121205.b/ABN.m
Misc Info: 12-22481

Client SDG: VR82
Fraction: SV
Client Smp ID: SG-04-S-C-121108
Operator: VTS/YZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	736.1	482.1	65.49	30-160
\$ 2 Phenol-d5	736.1	510.7	69.37	30-160
\$ 5 2-Chlorophenol-d4	736.1	502.2	68.22	30-160
\$ 10 1,2-Dichlorobenzen	490.8	320.8	65.36	30-160
\$ 18 Nitrobenzene-d5	490.8	321.1	65.44	30-160
\$ 36 2-Fluorobiphenyl	490.8	333.6	67.97	30-160
\$ 55 2,4,6-Tribromophen	736.1	524.1	71.19	30-160
\$ 66 Terphenyl-d14	490.8	396.7	80.82	30-160



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

Operator: VTS/YZ

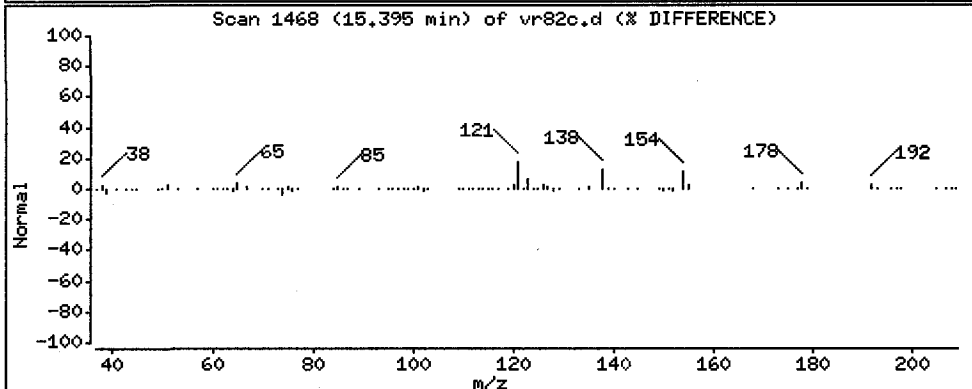
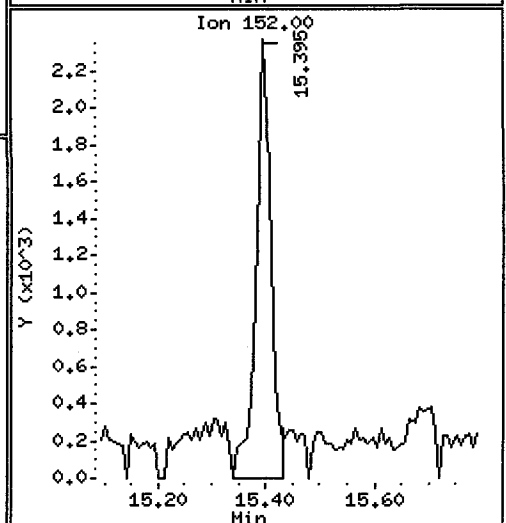
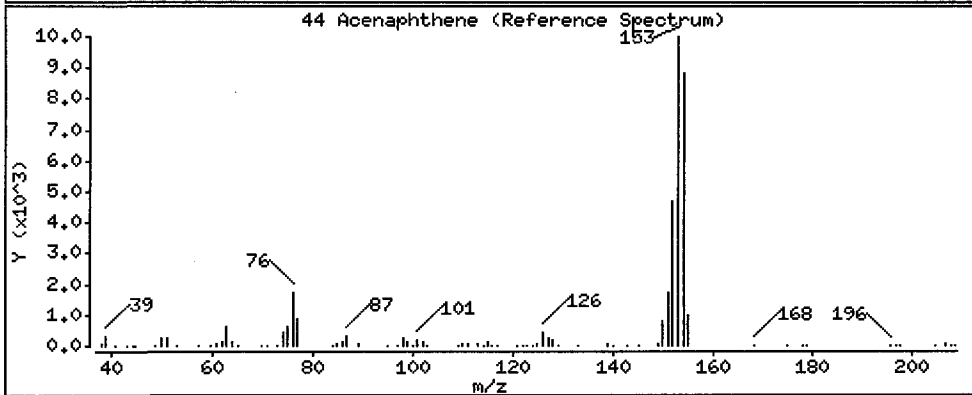
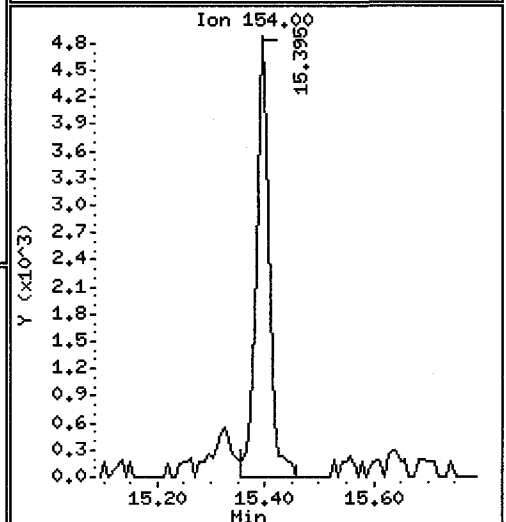
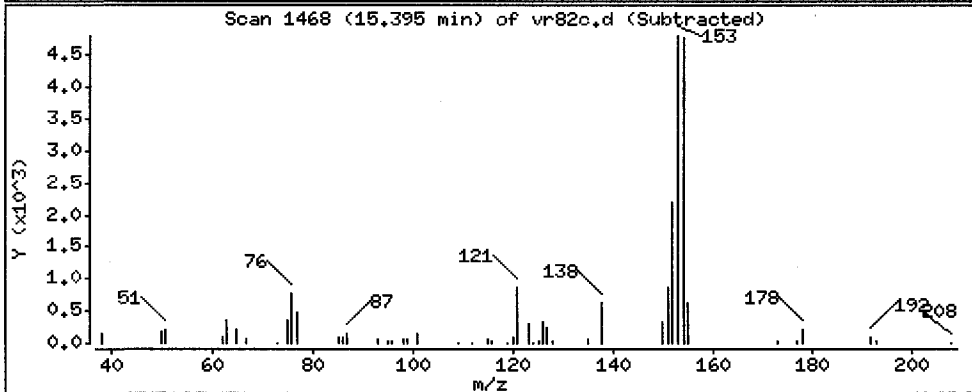
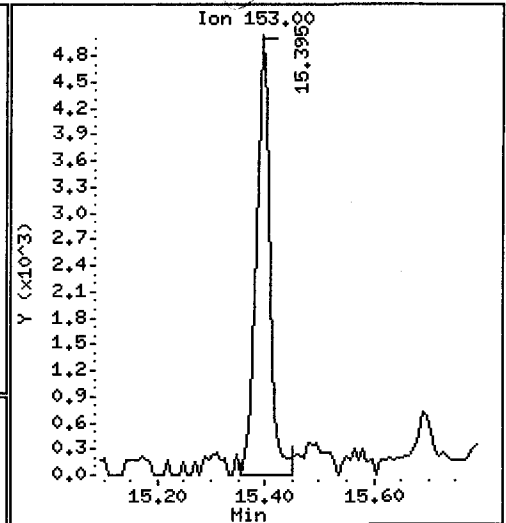
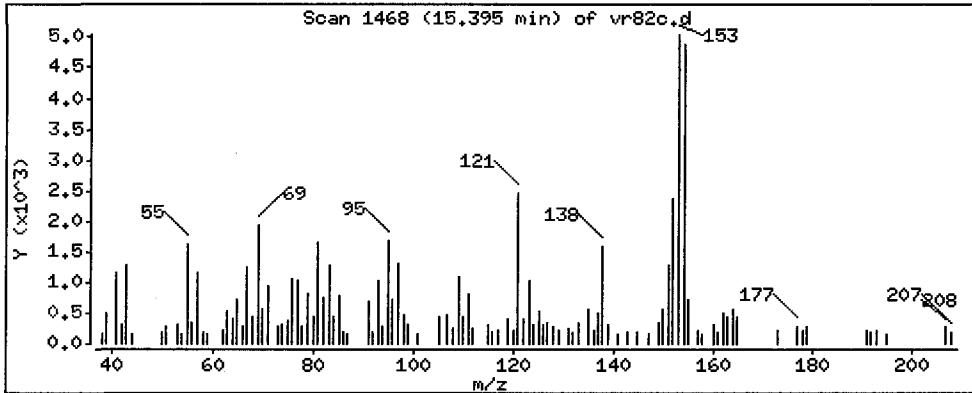
Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 13.48 ug/kg

OK



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

Operator: VTS/YZ

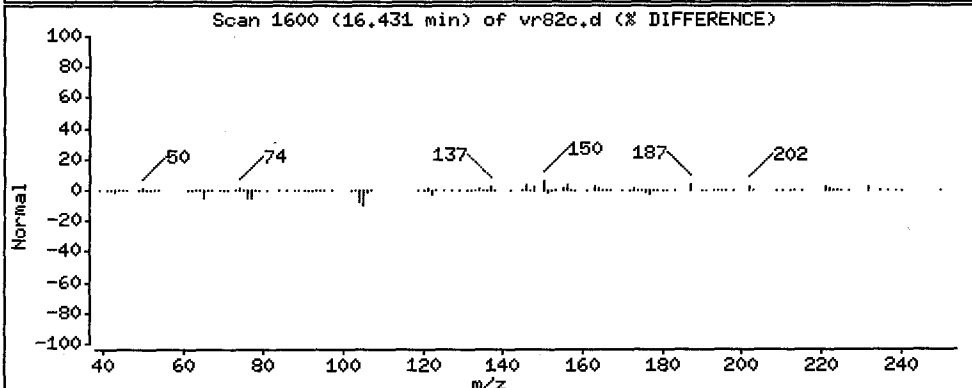
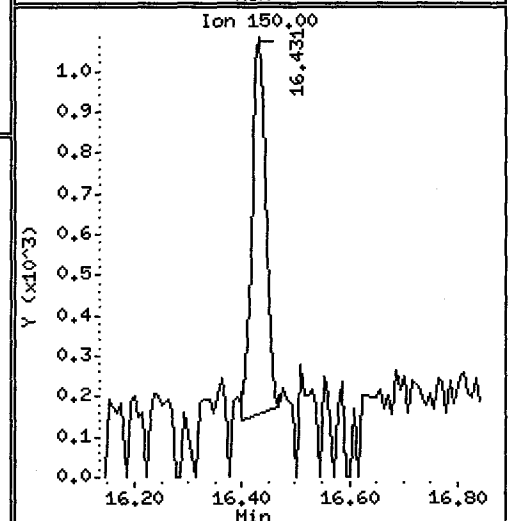
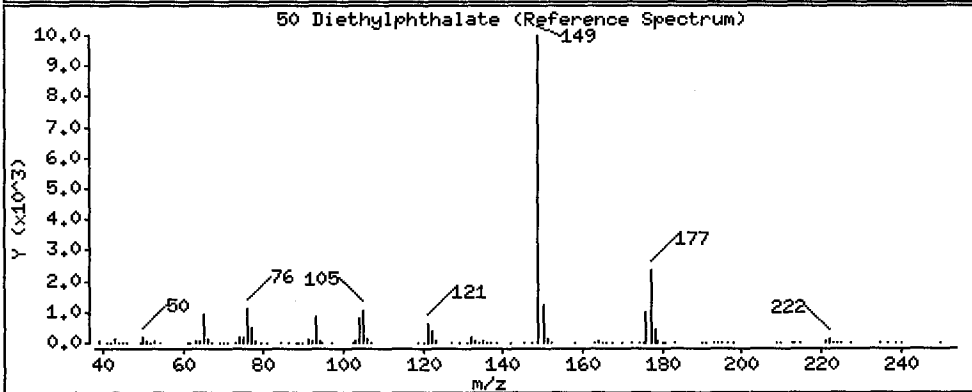
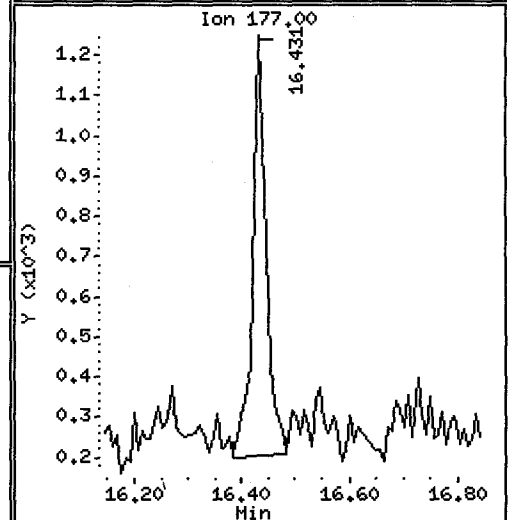
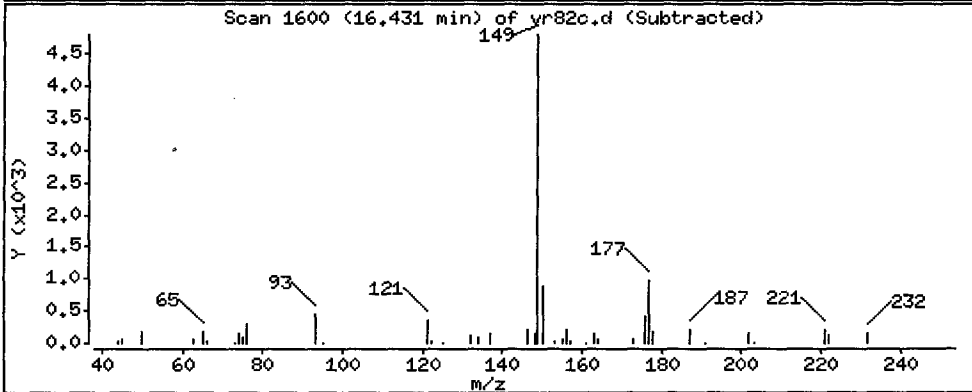
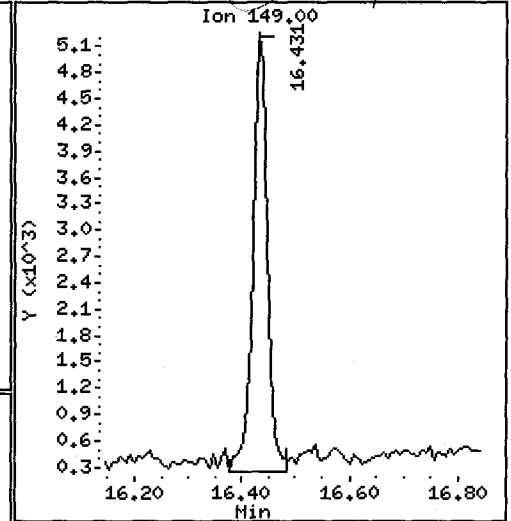
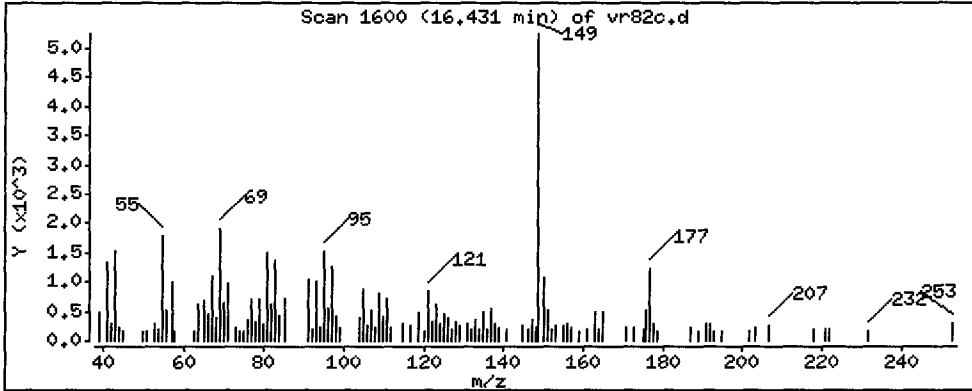
Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 11.26 ug/kg

Handwritten notes:
Cmpd
Start
Peak
Milk



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

Operator: VTS/YZ

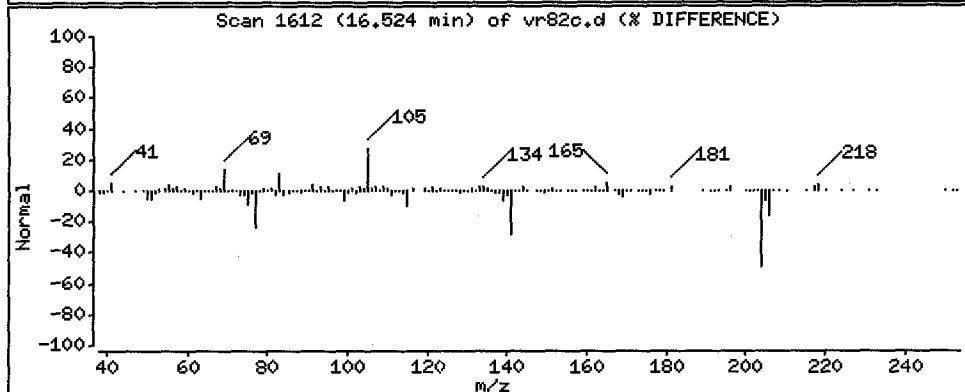
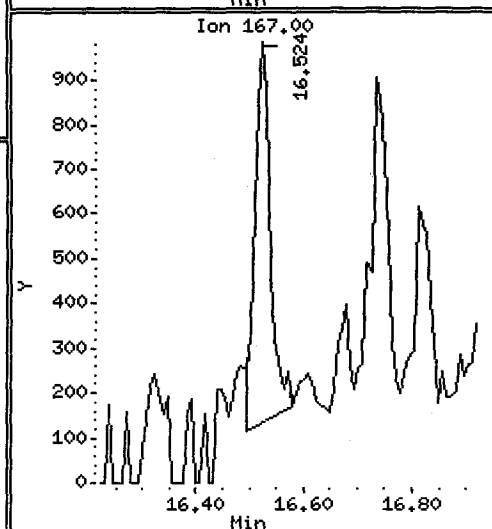
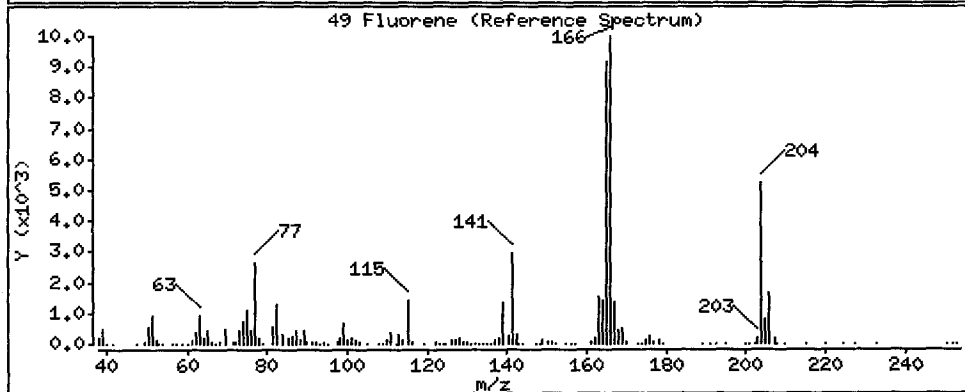
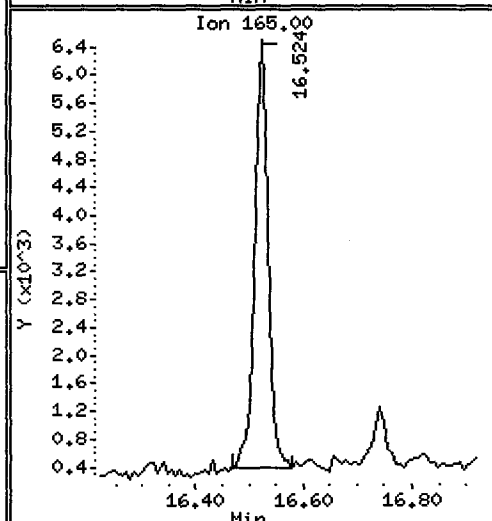
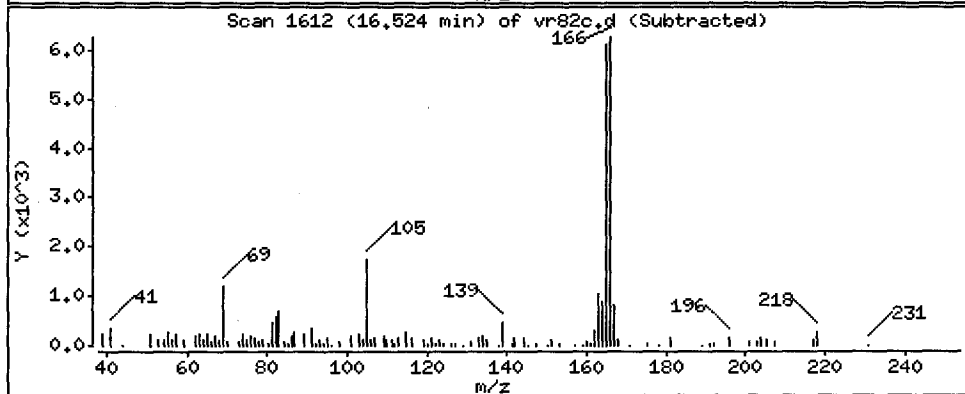
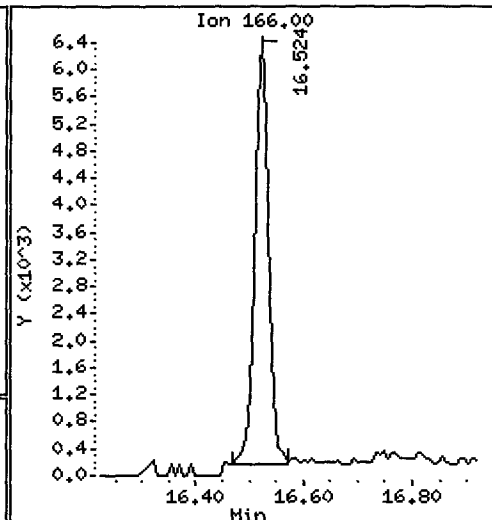
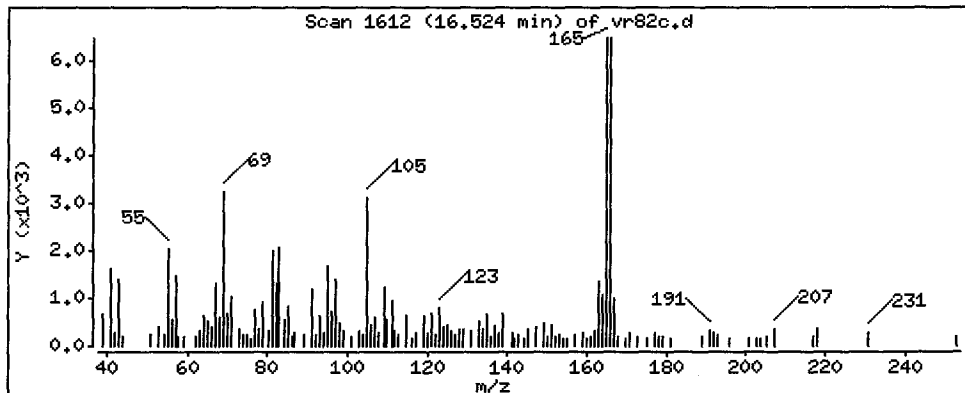
Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 13.81 ug/kg

FLU



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

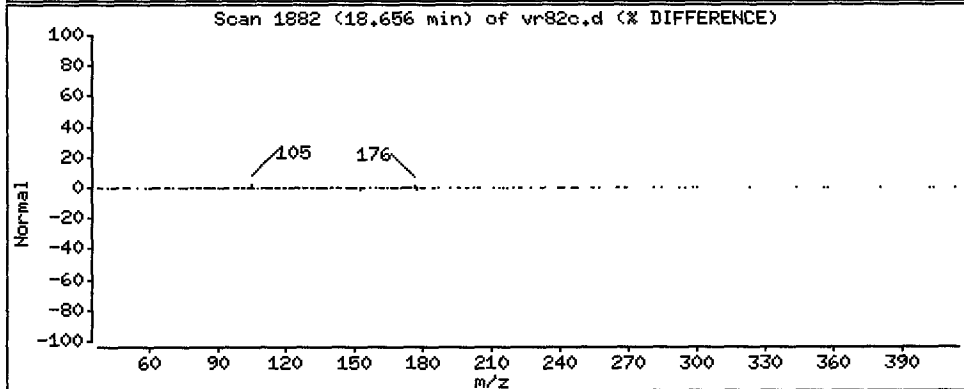
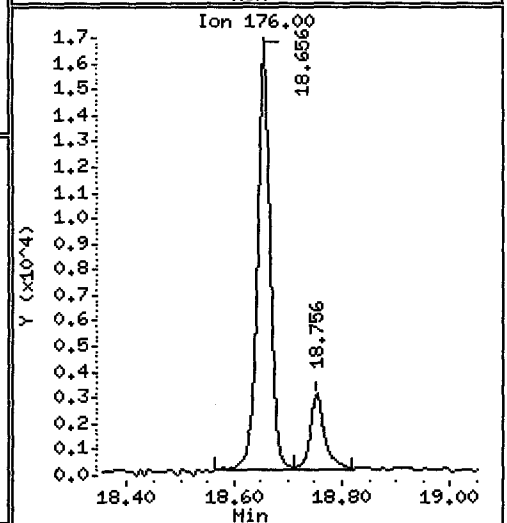
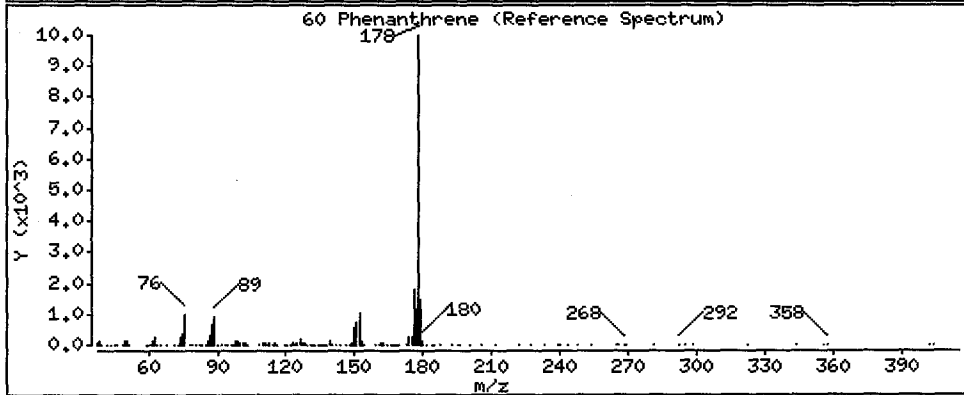
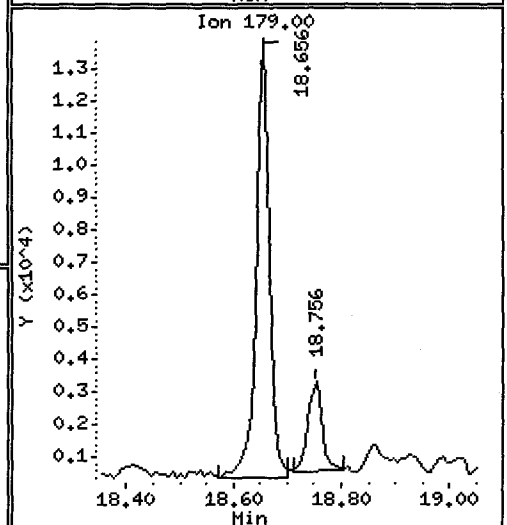
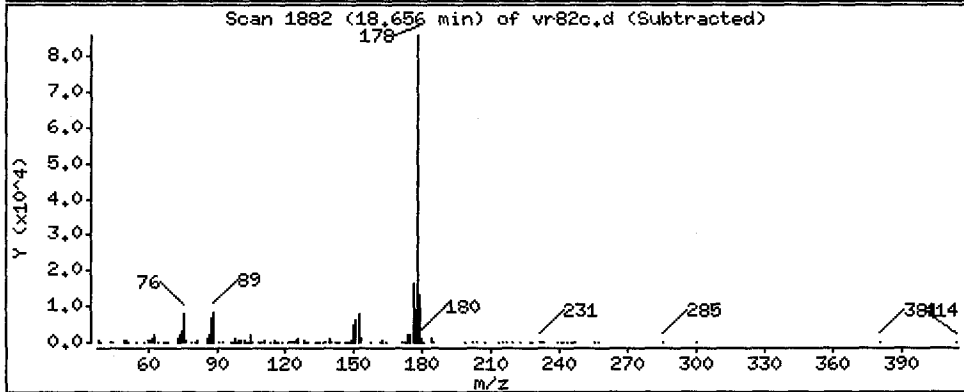
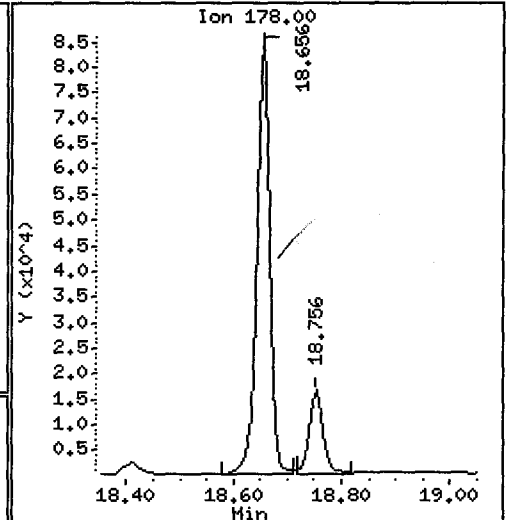
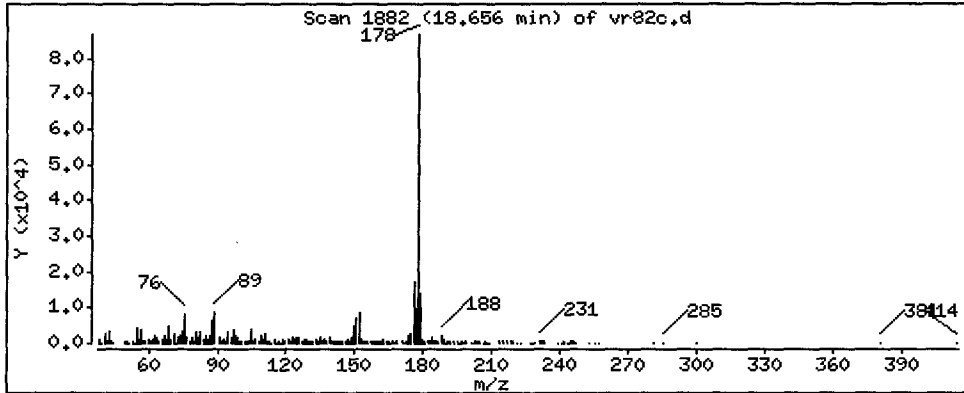
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 139.8 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

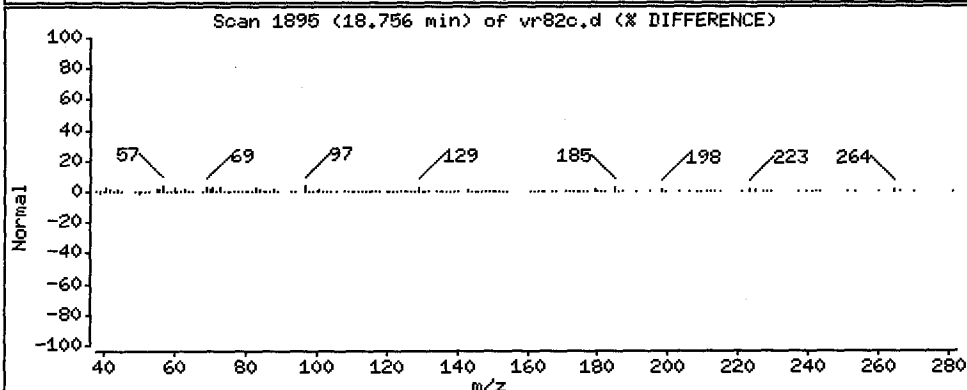
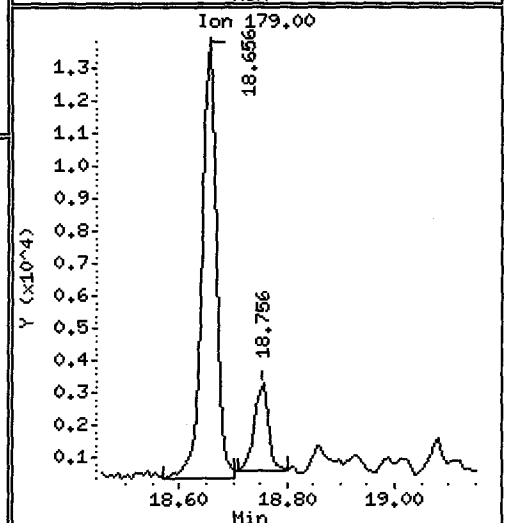
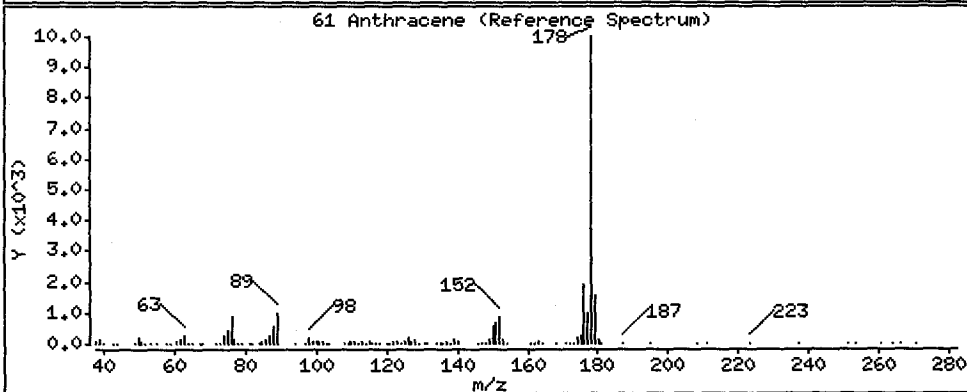
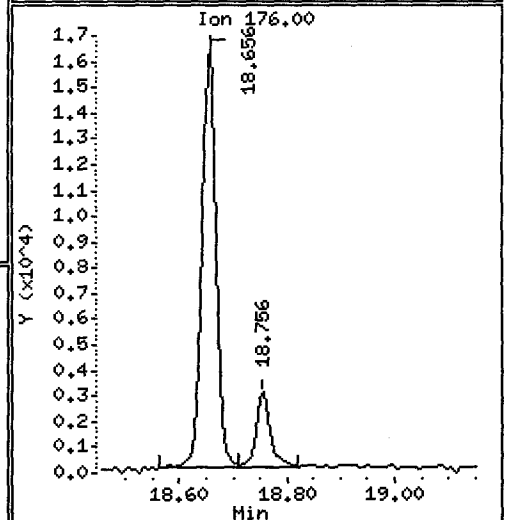
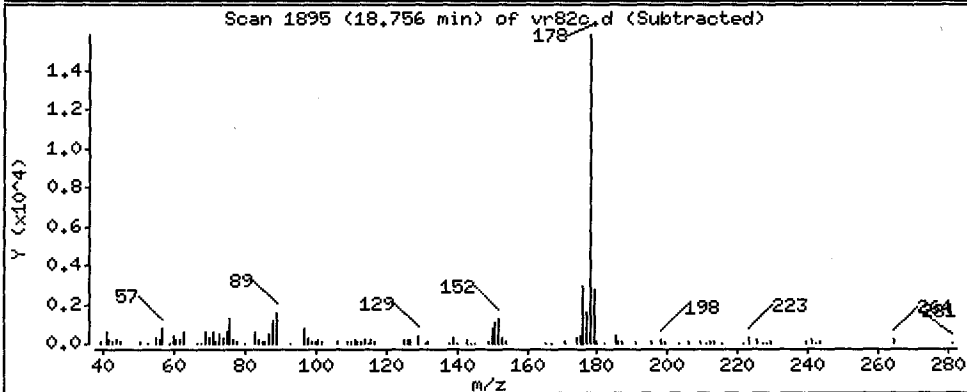
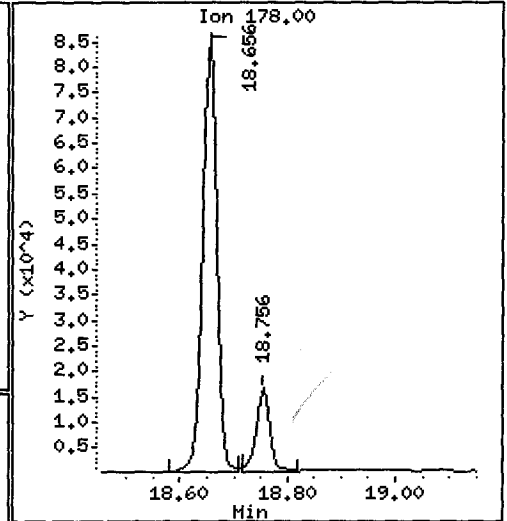
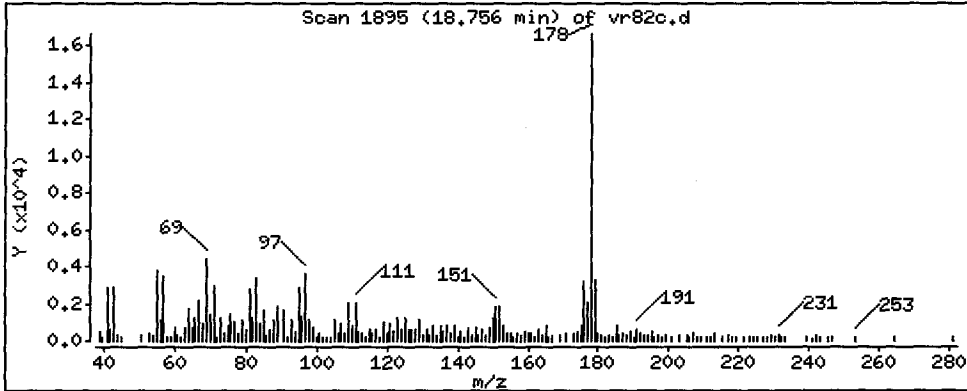
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 26.12 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

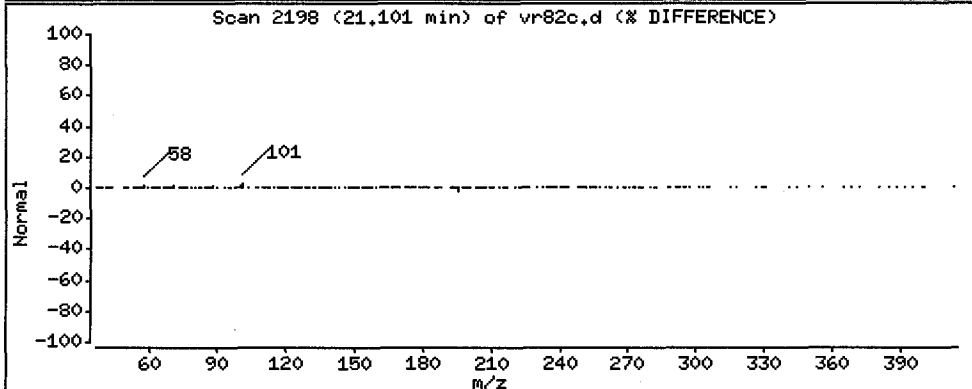
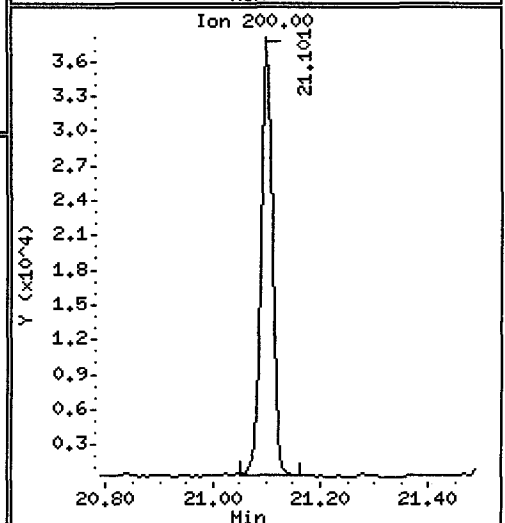
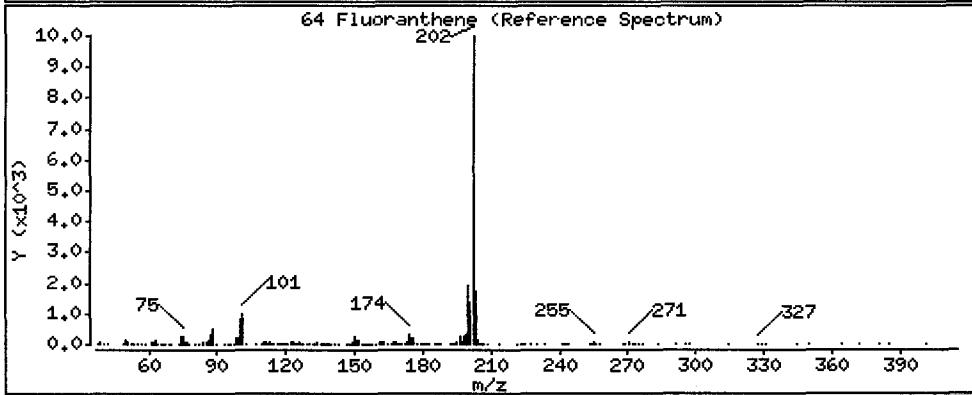
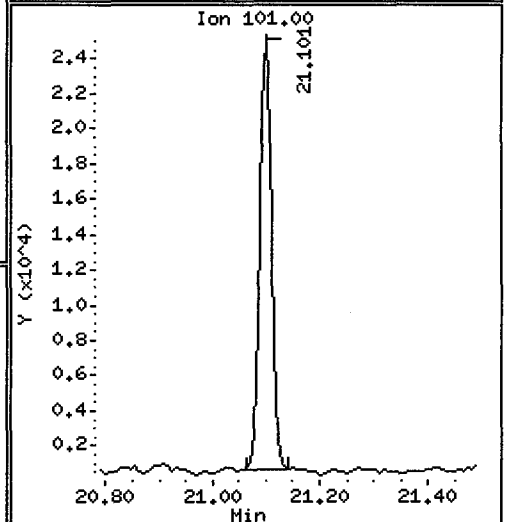
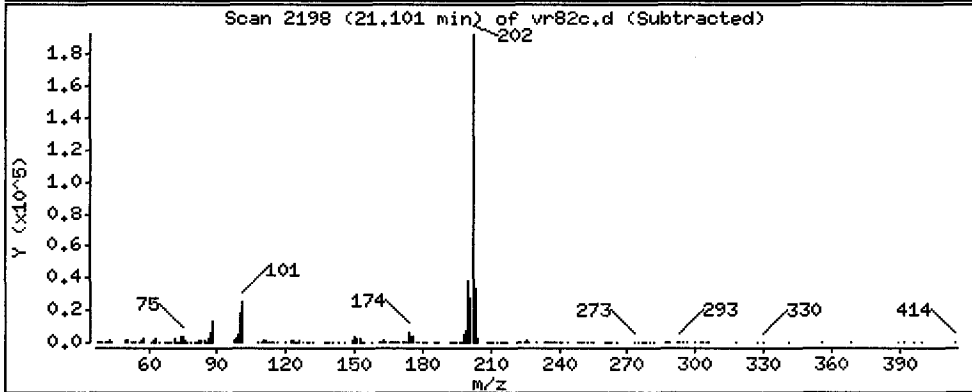
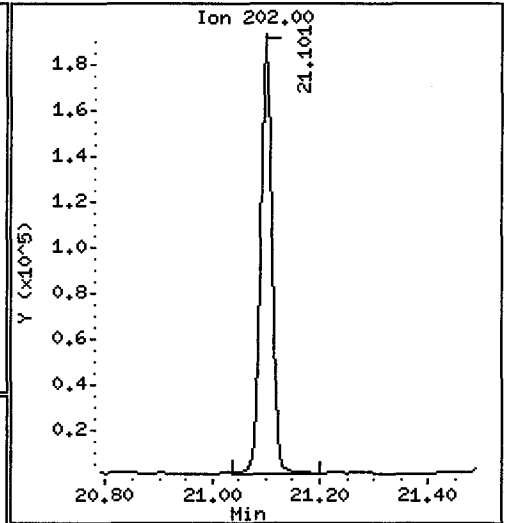
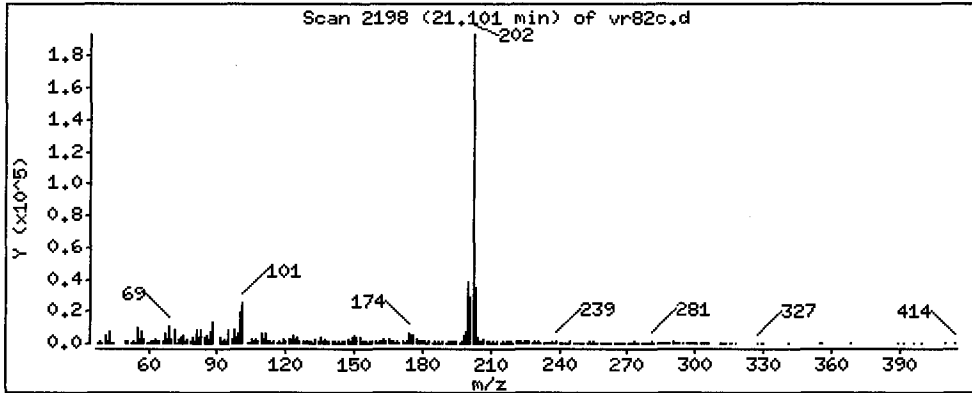
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 224.6 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

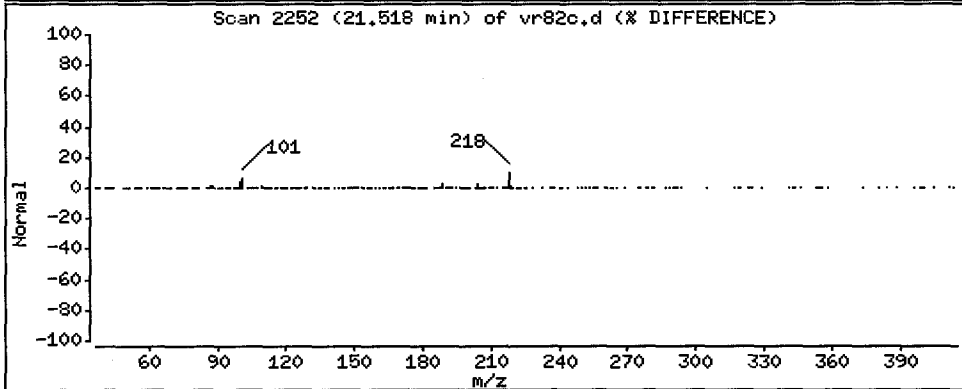
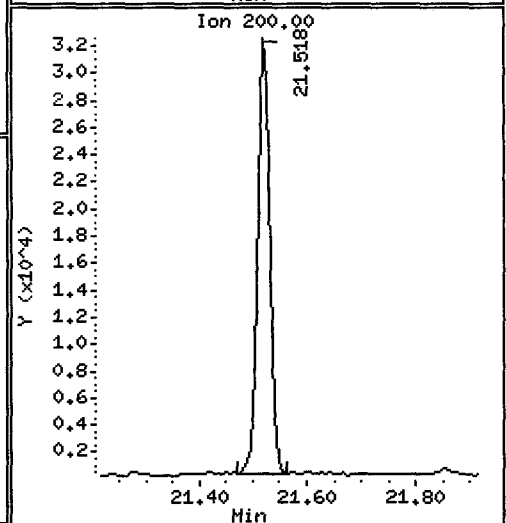
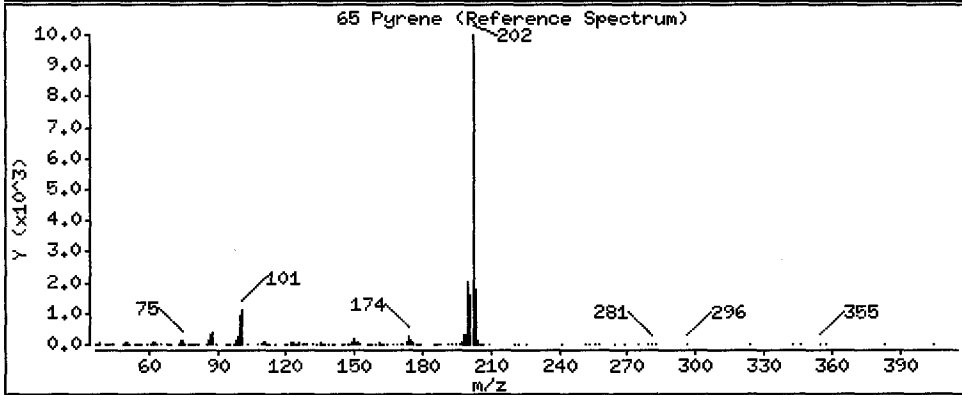
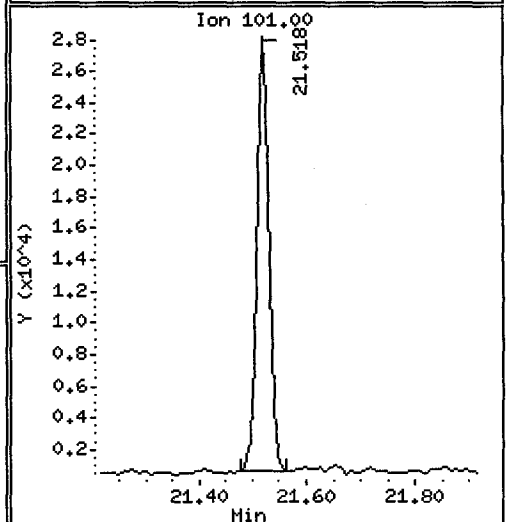
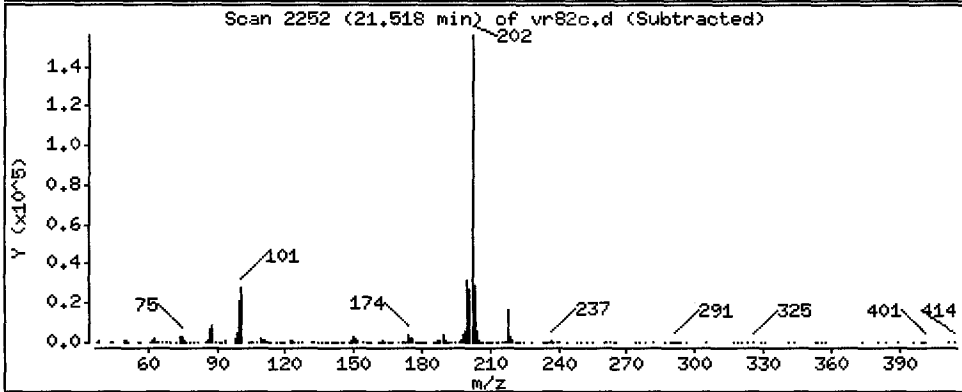
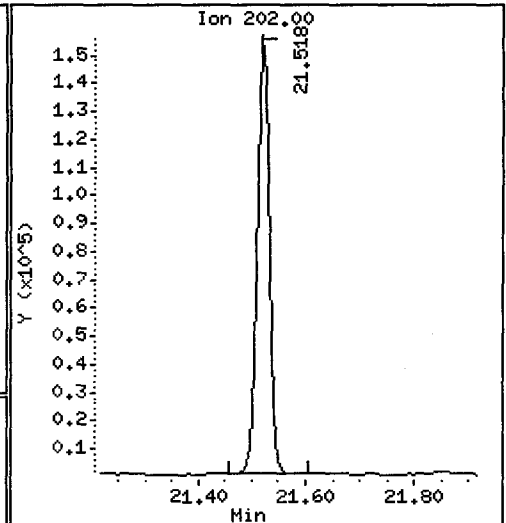
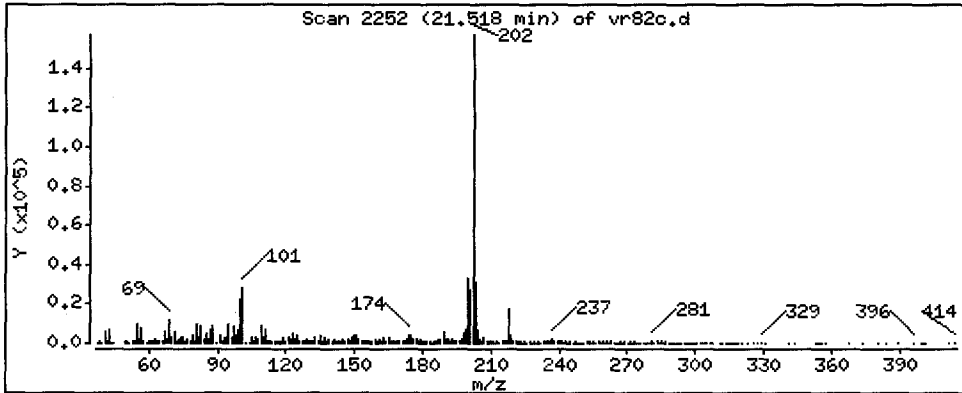
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 194.0 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

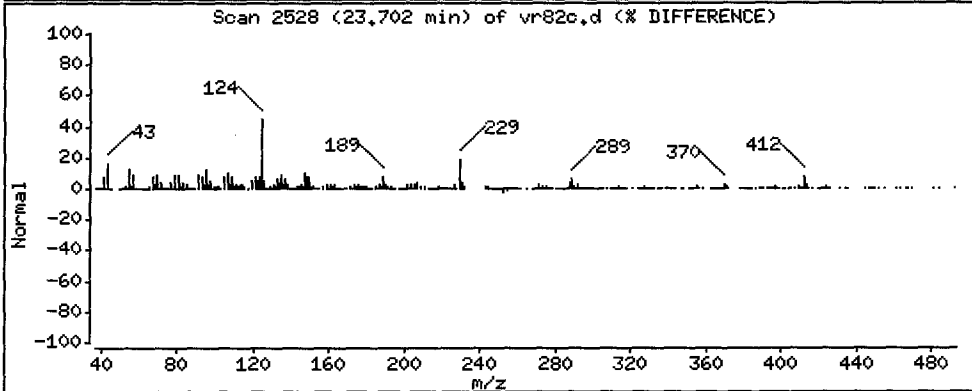
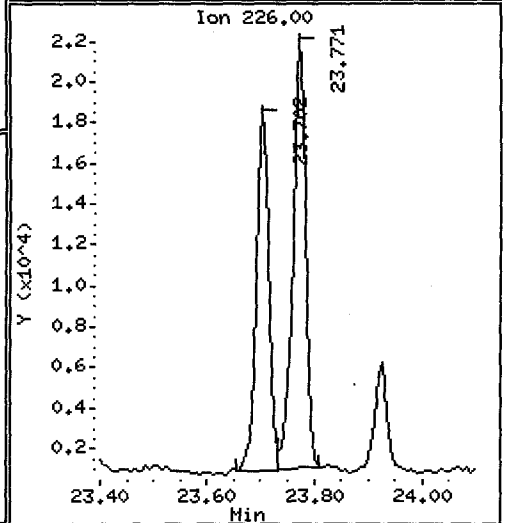
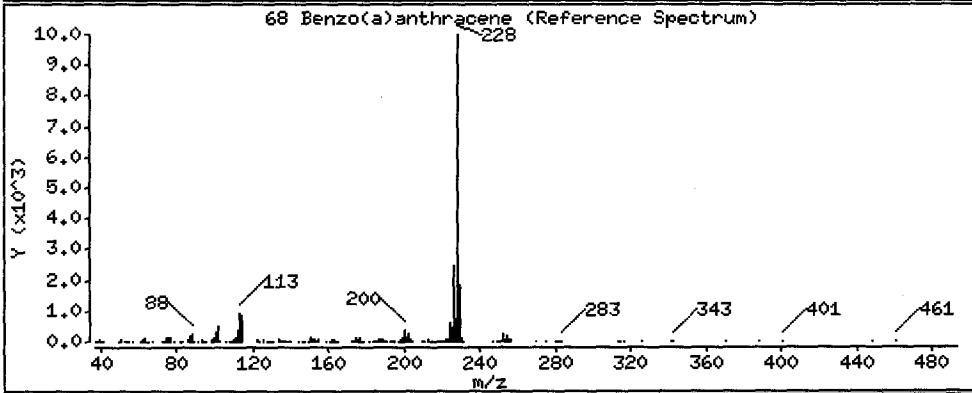
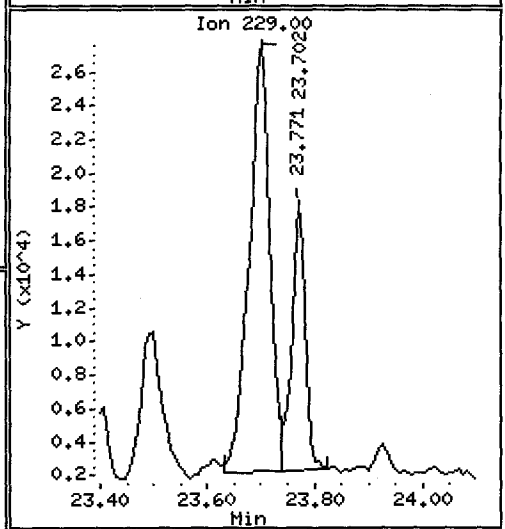
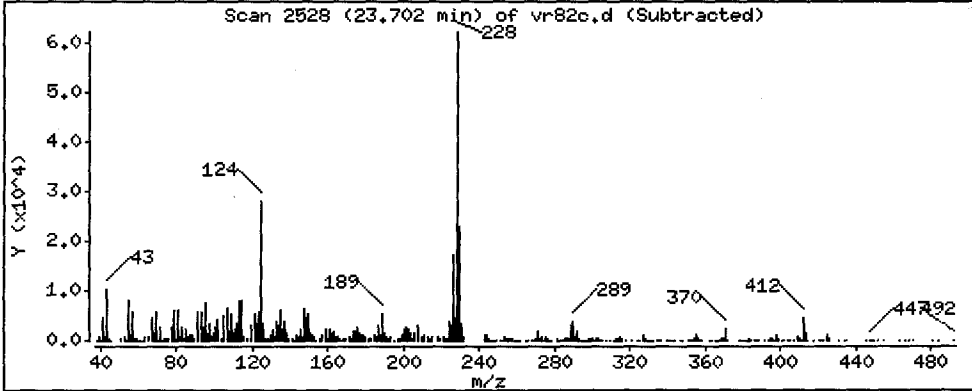
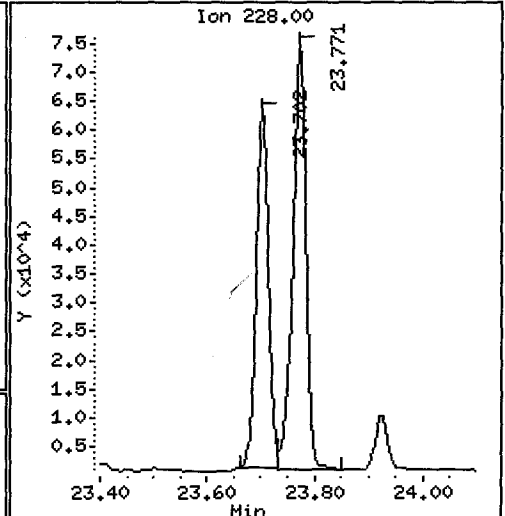
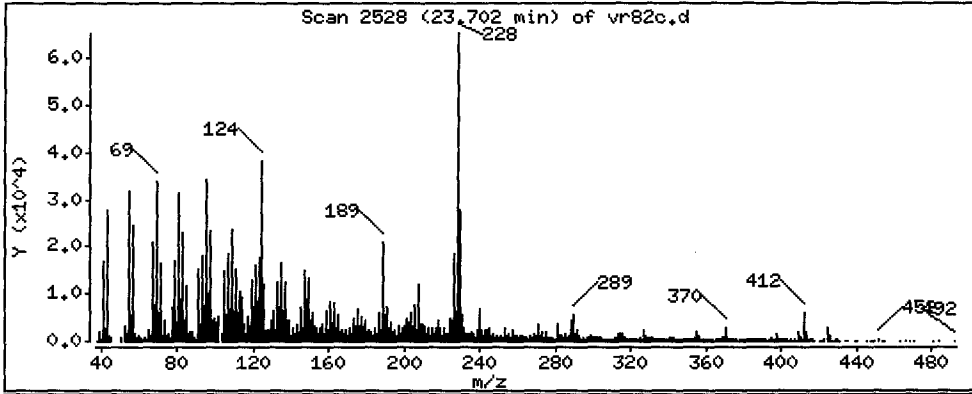
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 81.33 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

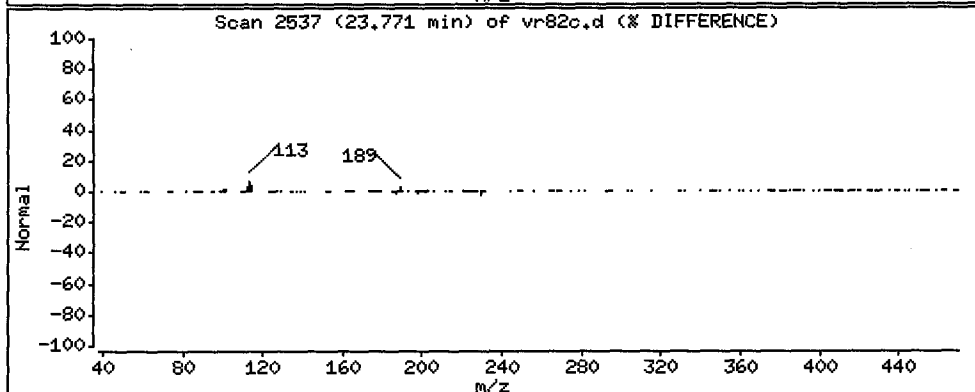
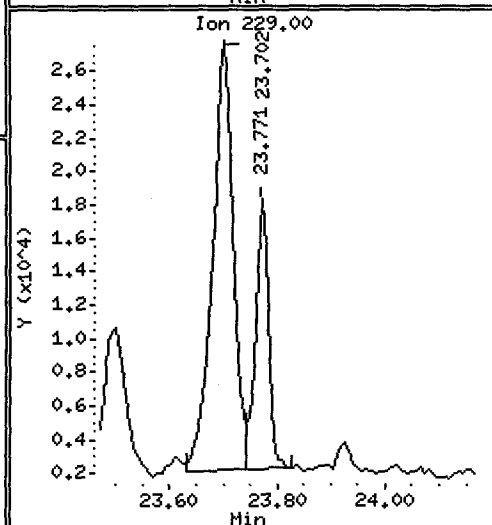
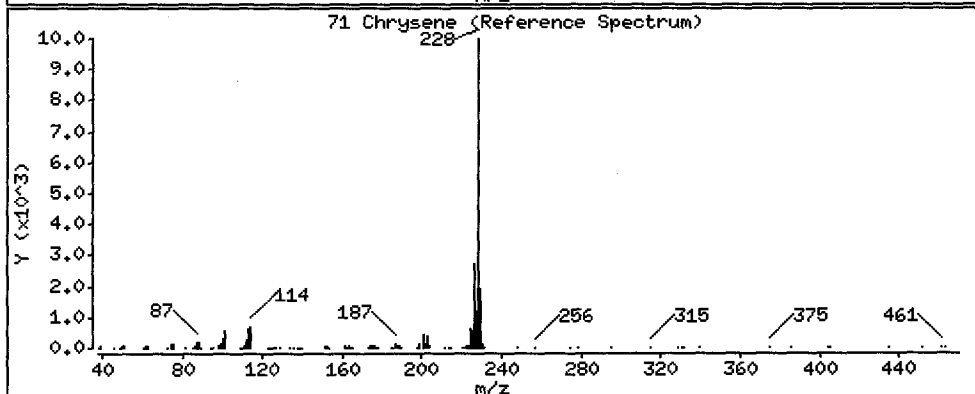
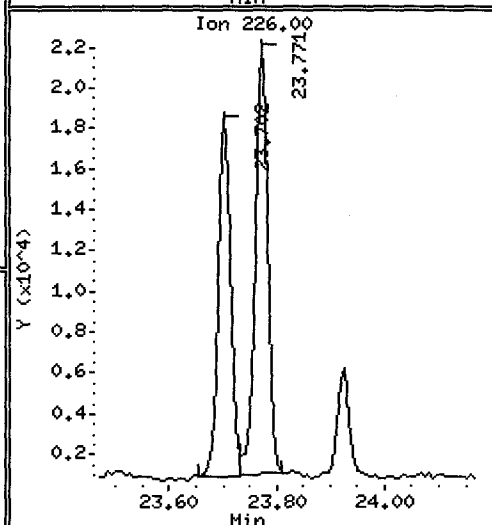
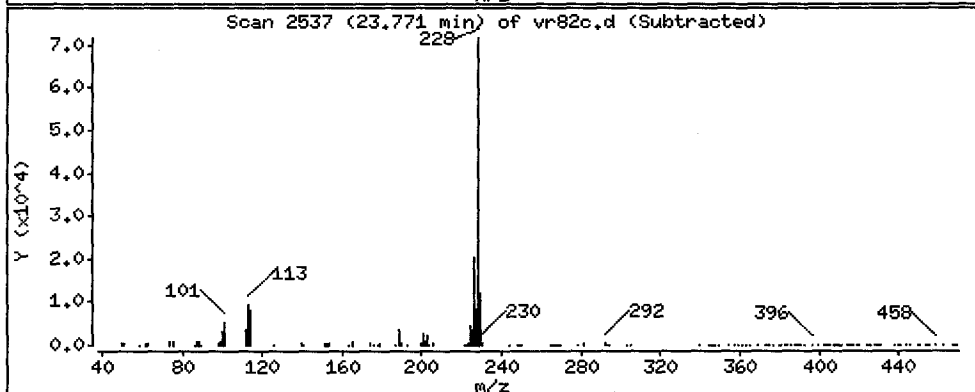
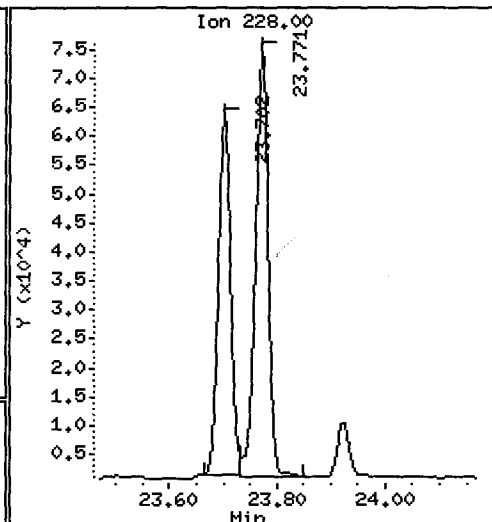
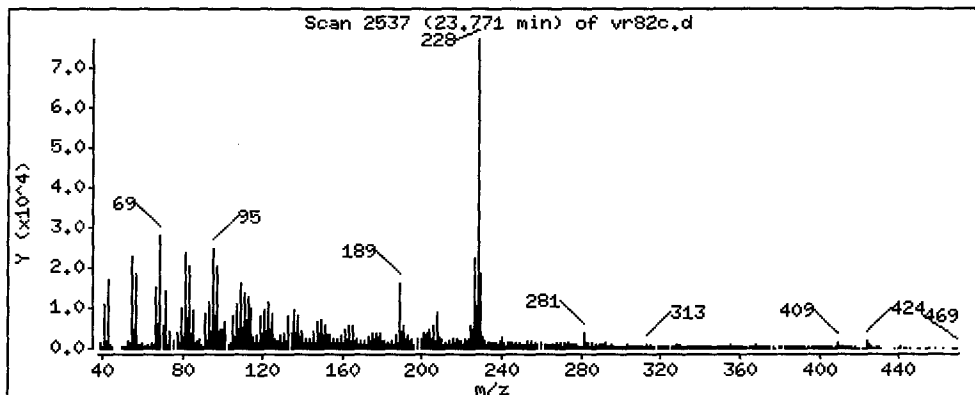
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 112.5 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SC-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

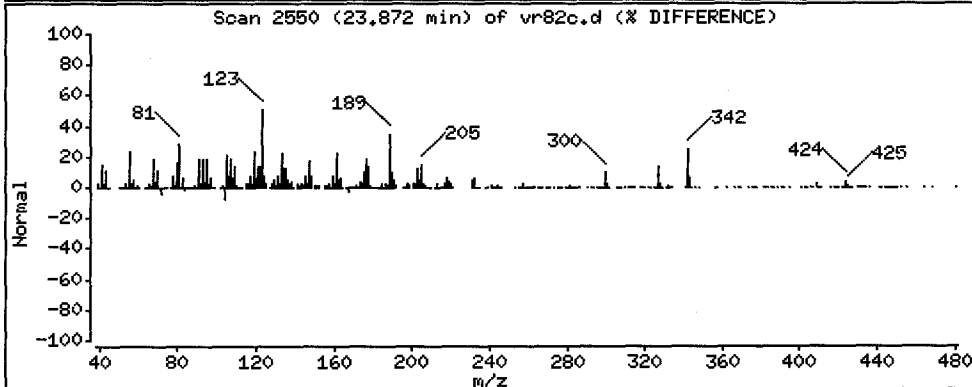
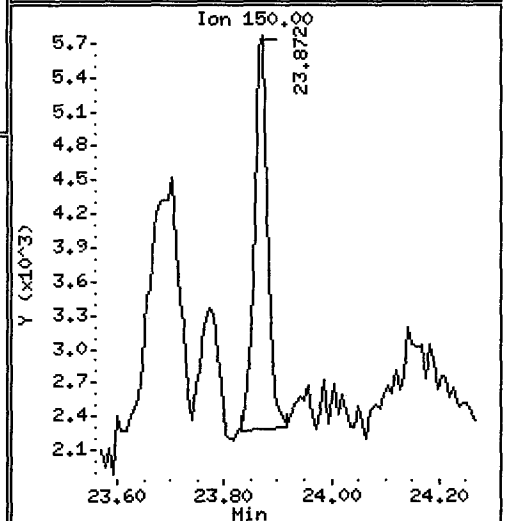
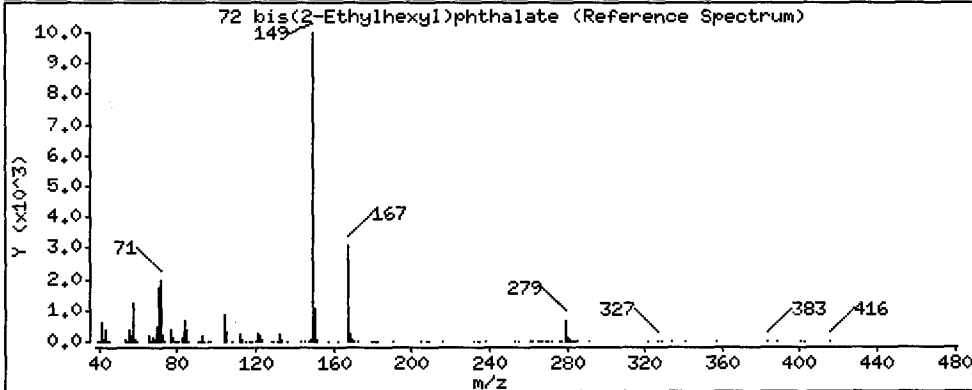
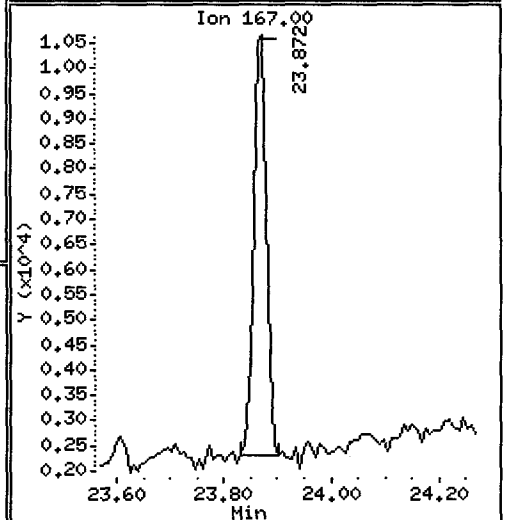
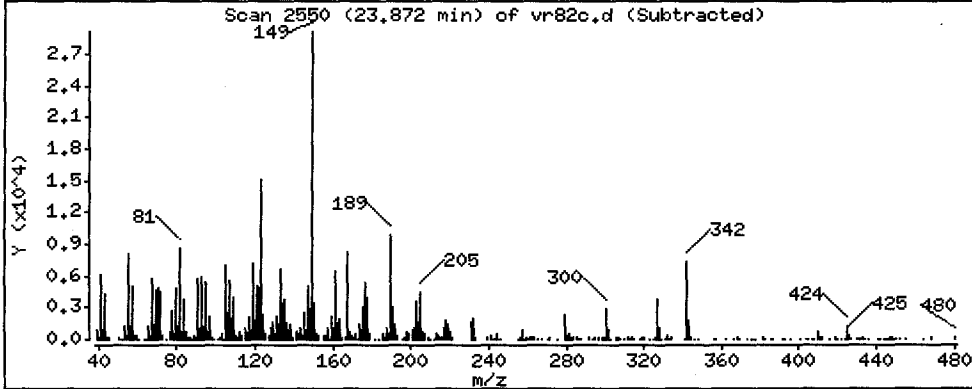
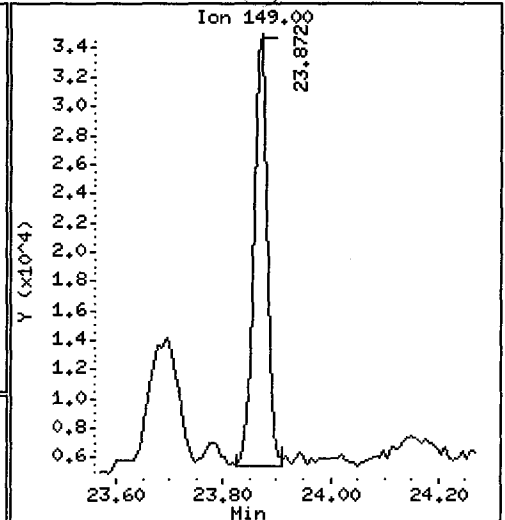
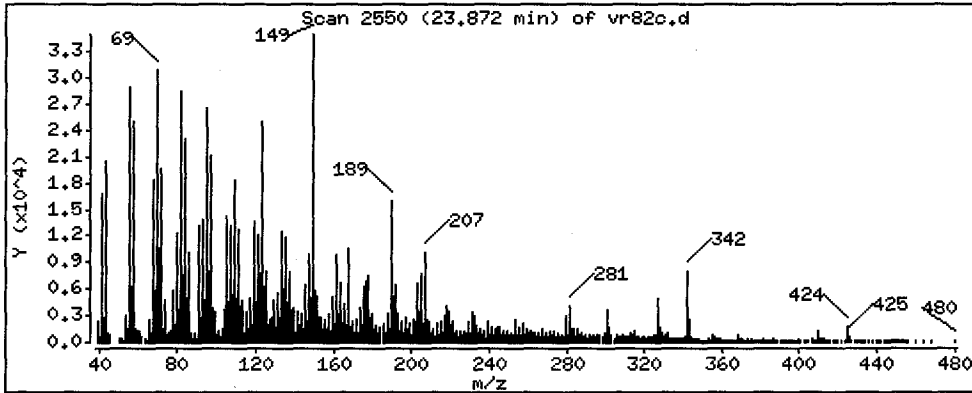
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 61.88 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

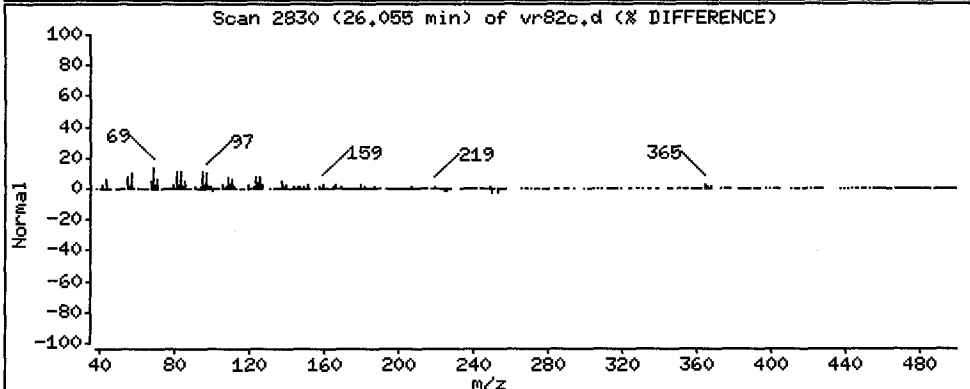
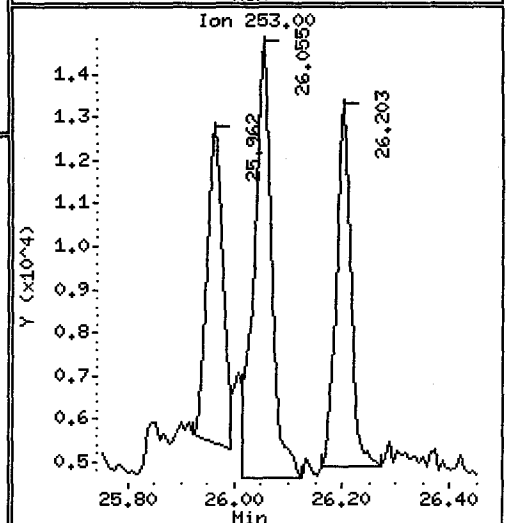
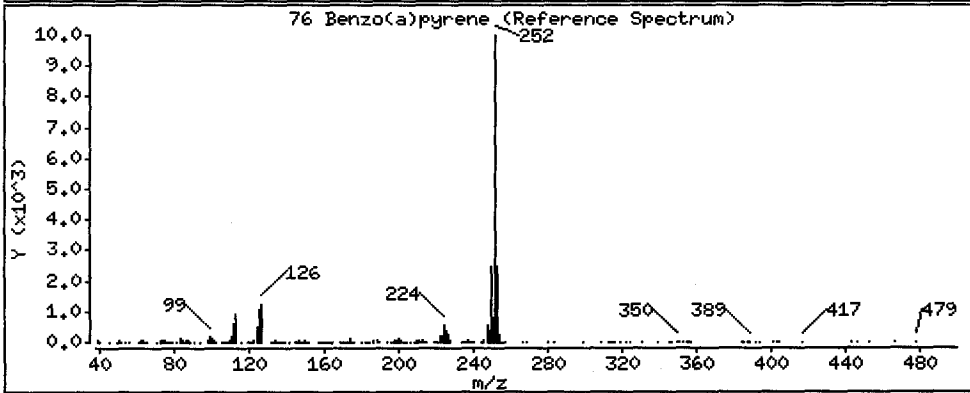
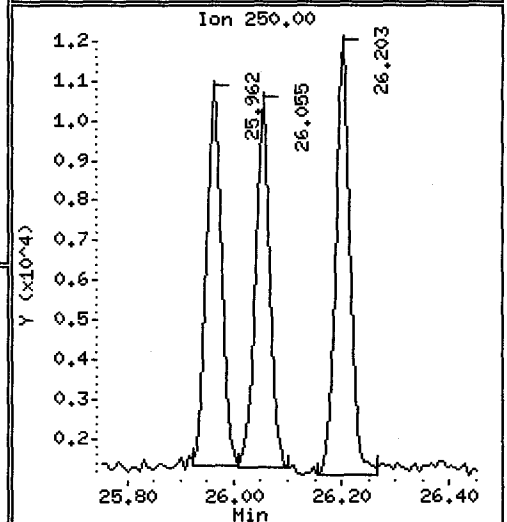
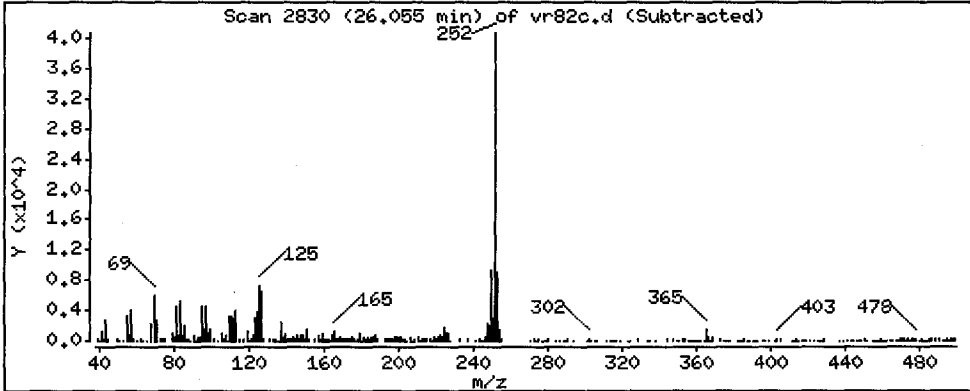
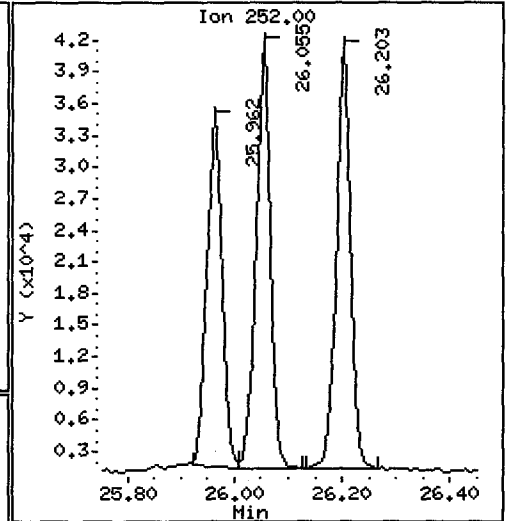
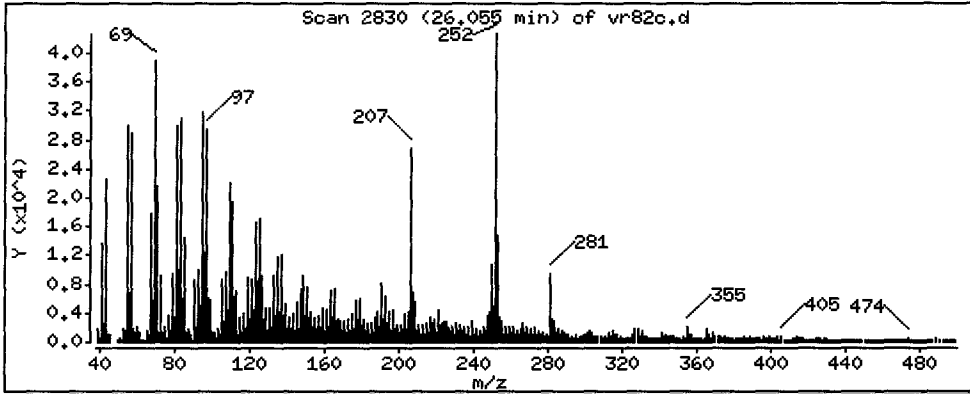
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 61.71 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

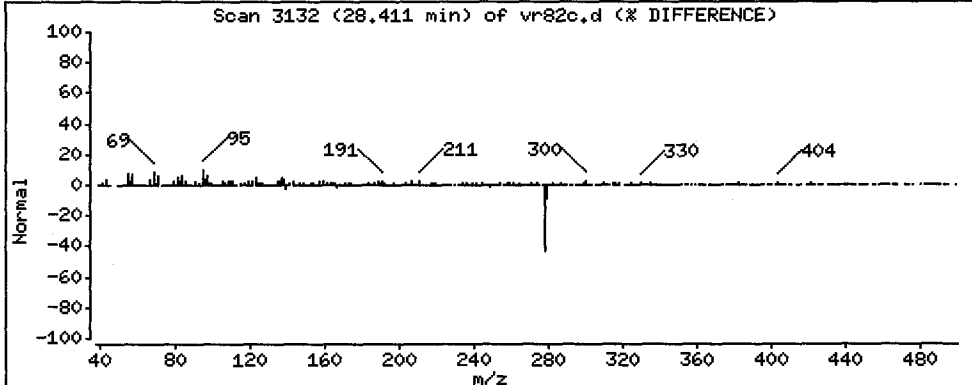
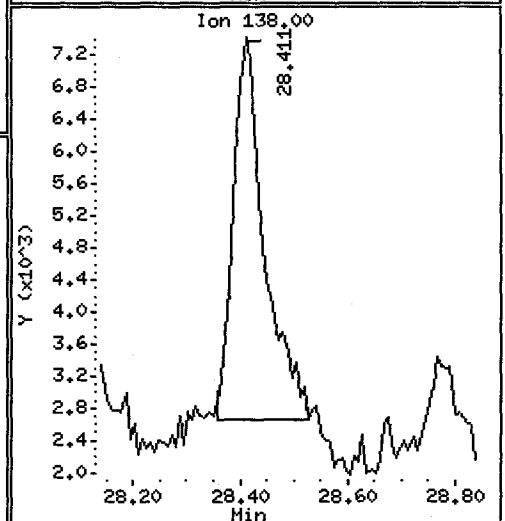
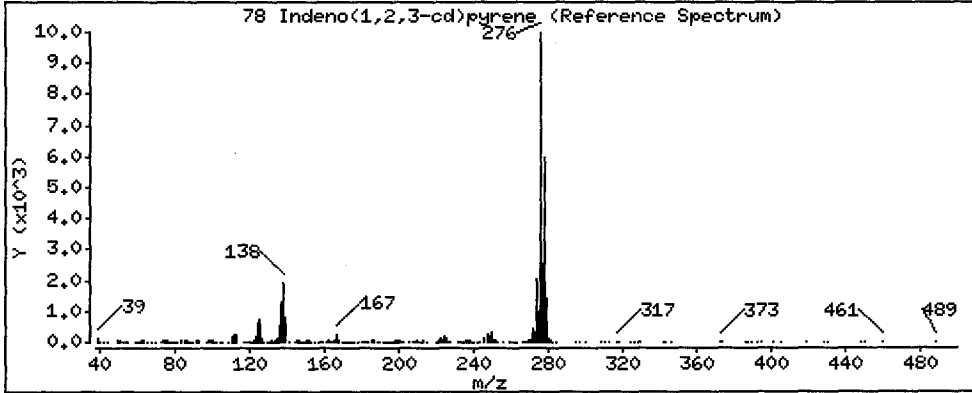
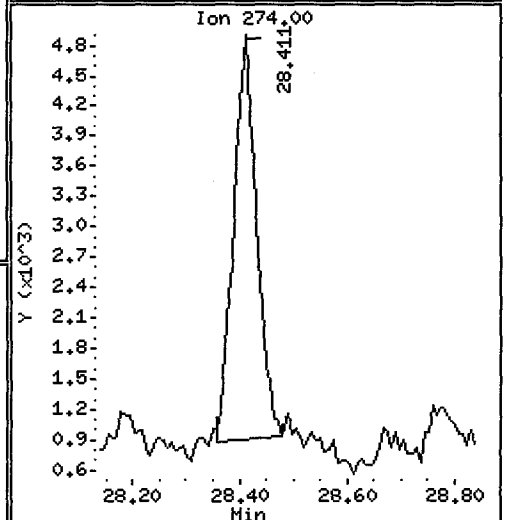
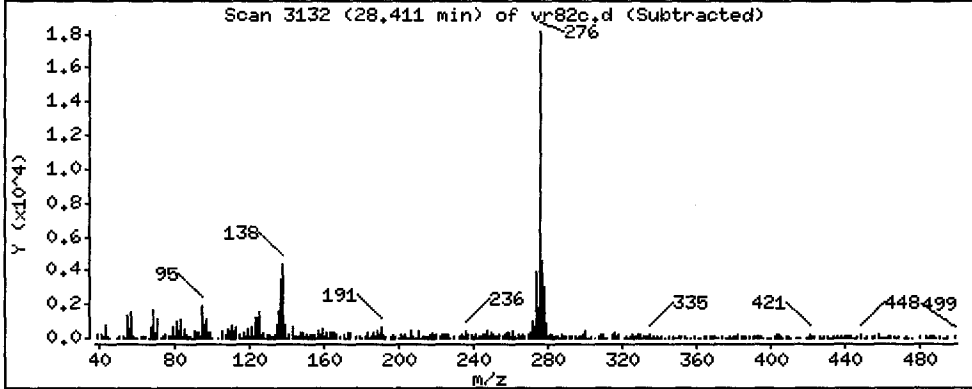
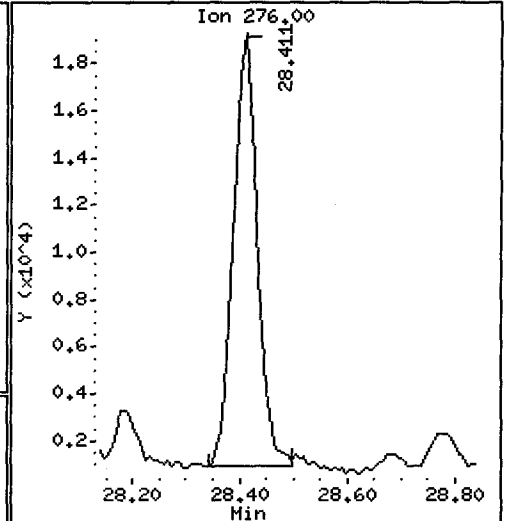
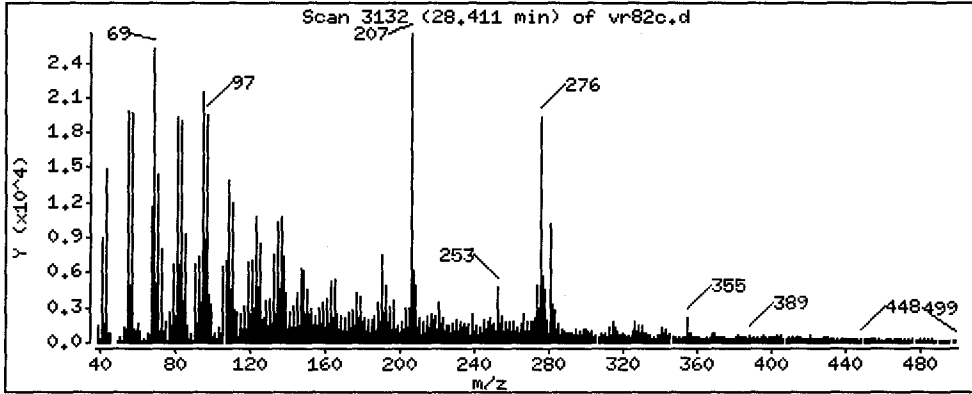
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 39.50 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

Operator: VTS/YZ

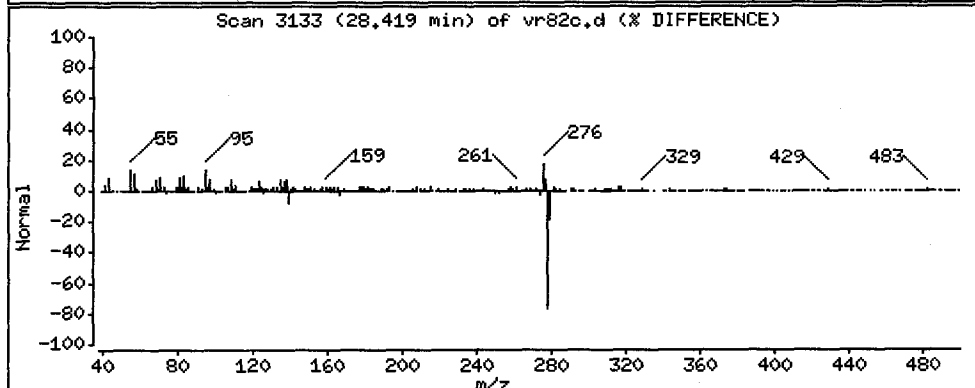
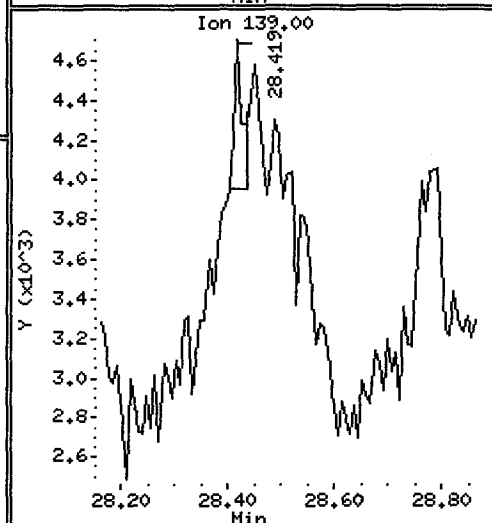
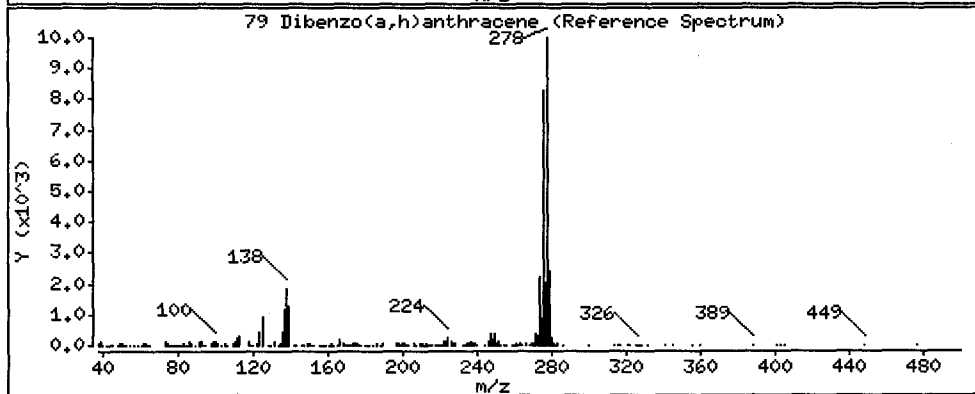
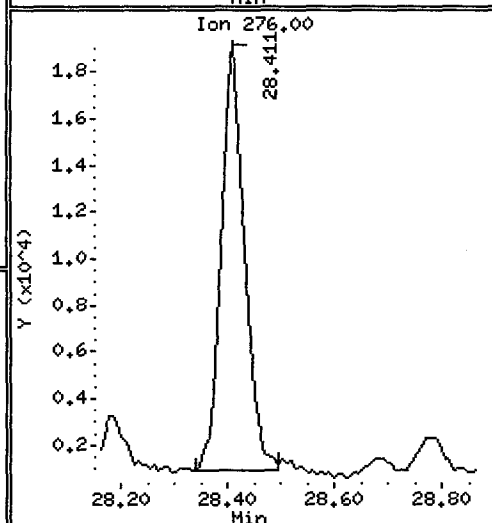
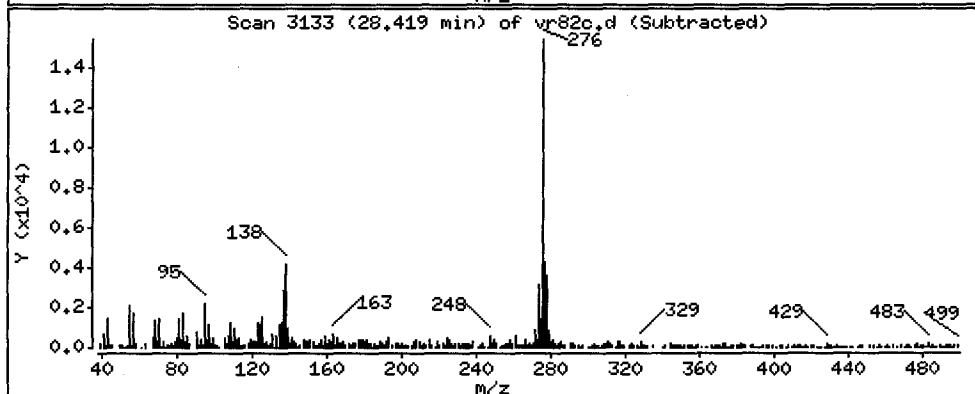
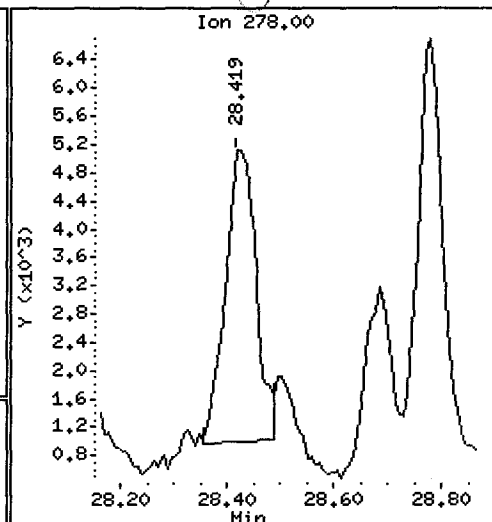
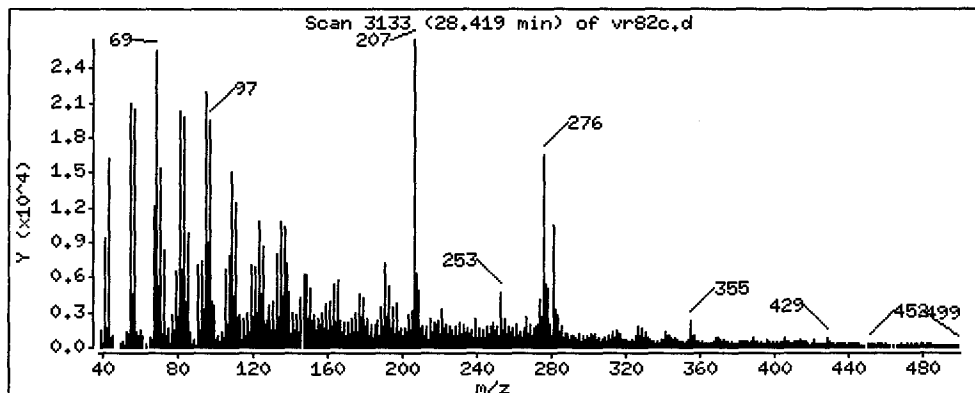
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 14.73 ug/kg

GC



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

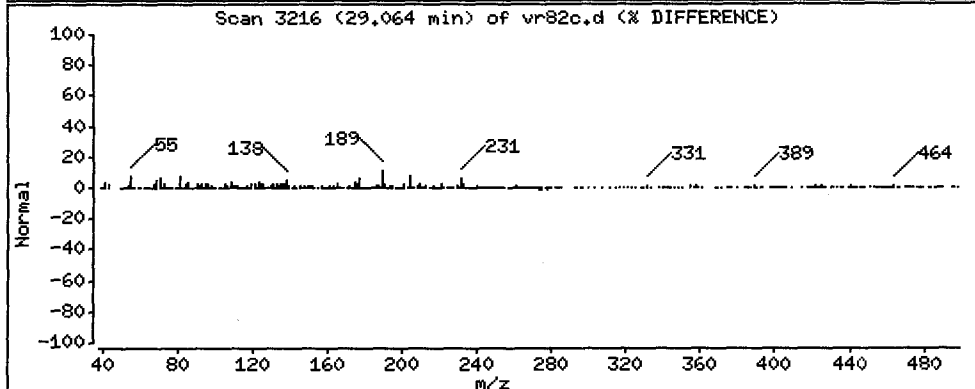
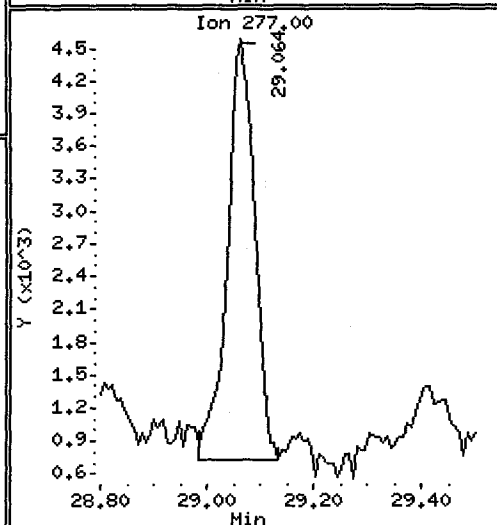
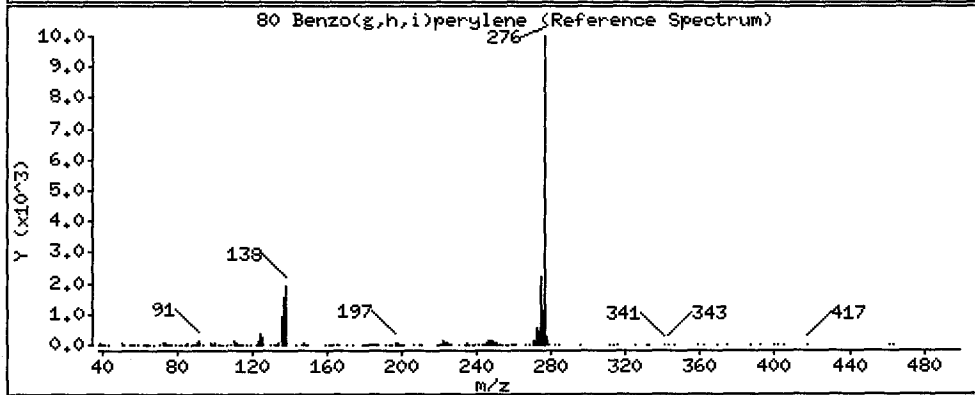
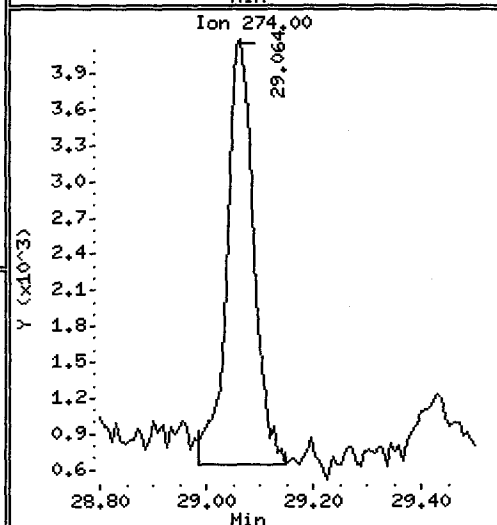
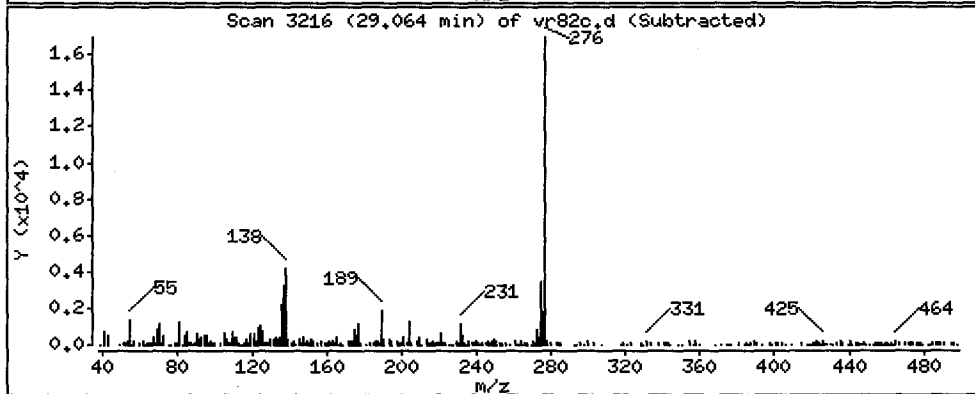
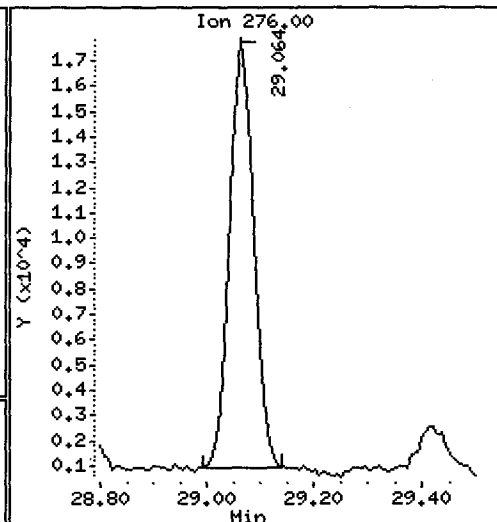
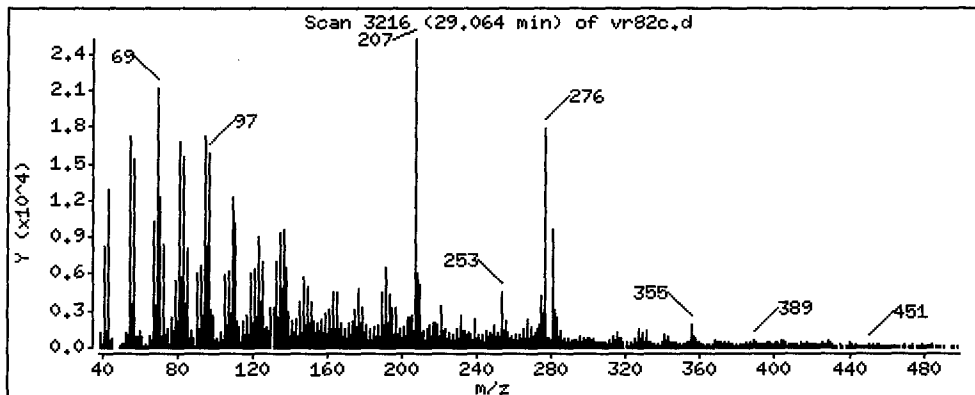
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 43.13 ug/kg



Date : 05-DEC-2012 15:13

Client ID: SG-04-S-C-121108

Instrument: nt10.i

Sample Info: VR82C

Volume Injected (uL): 1.0

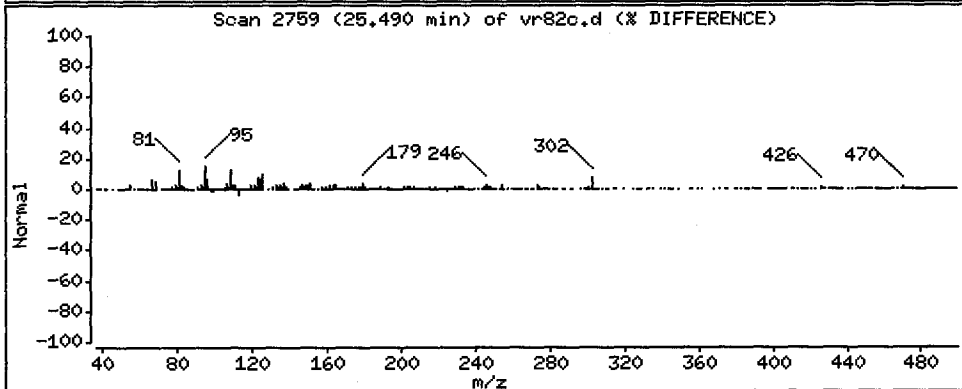
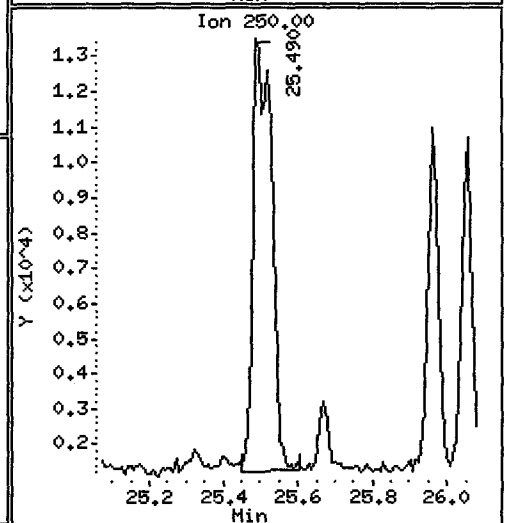
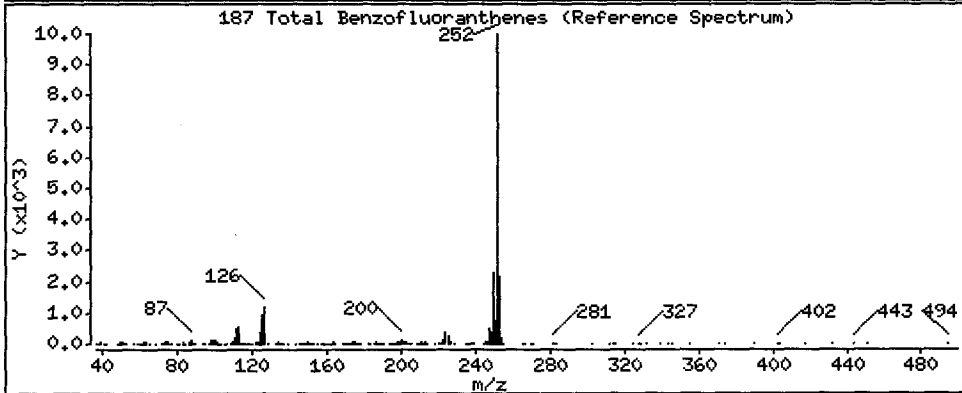
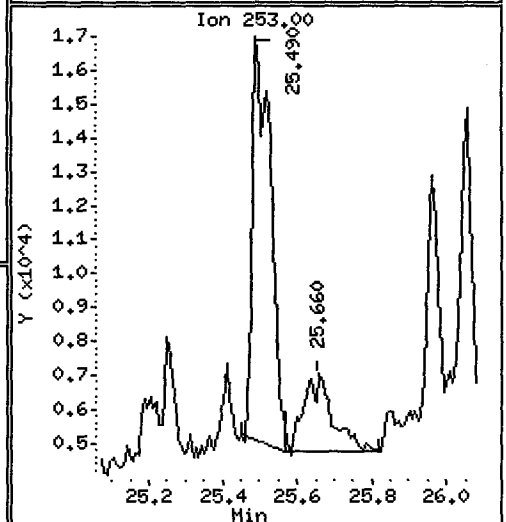
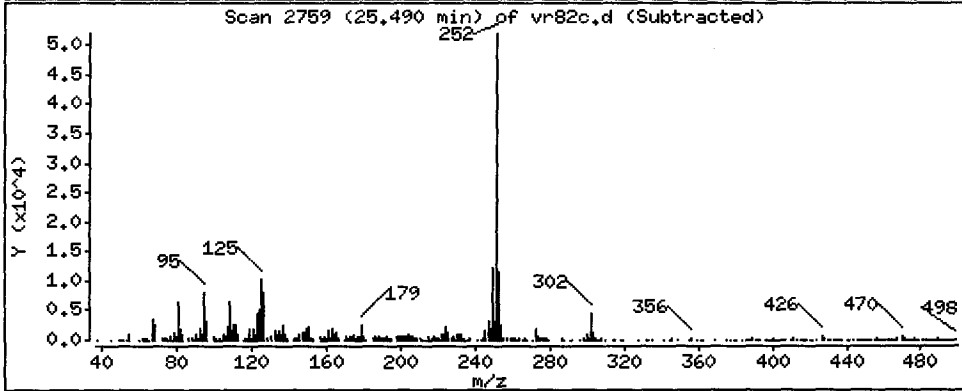
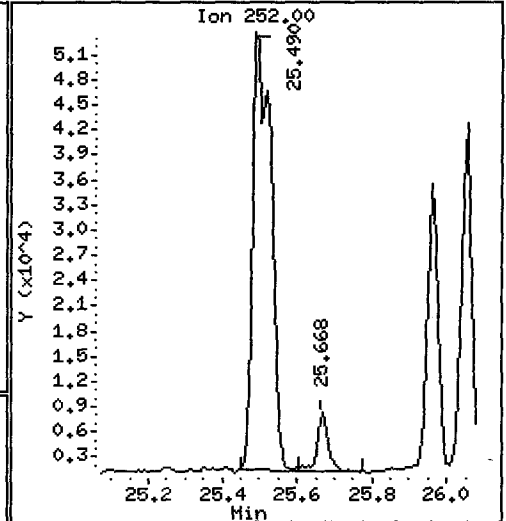
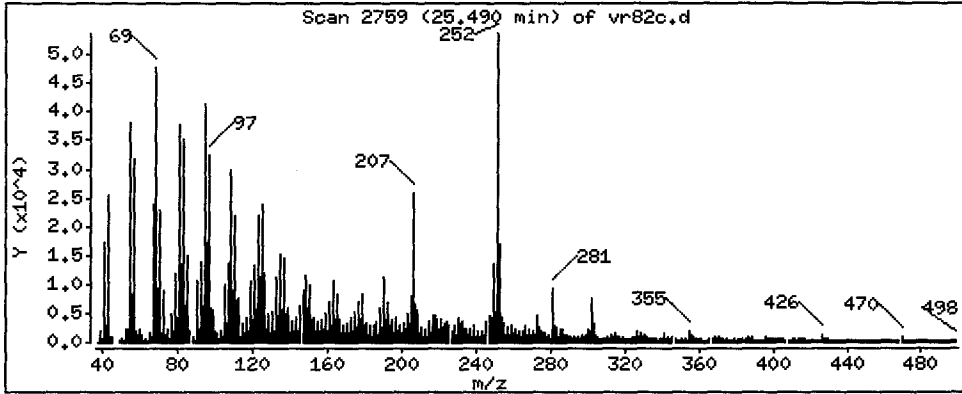
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 140.0 ug/kg



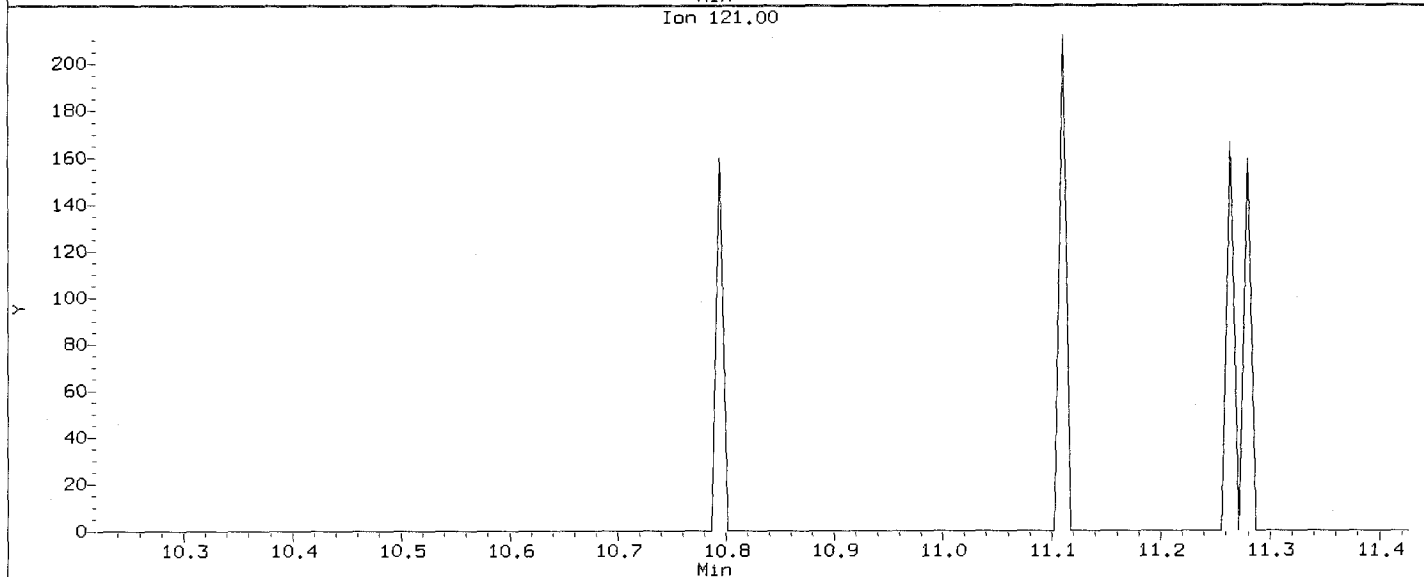
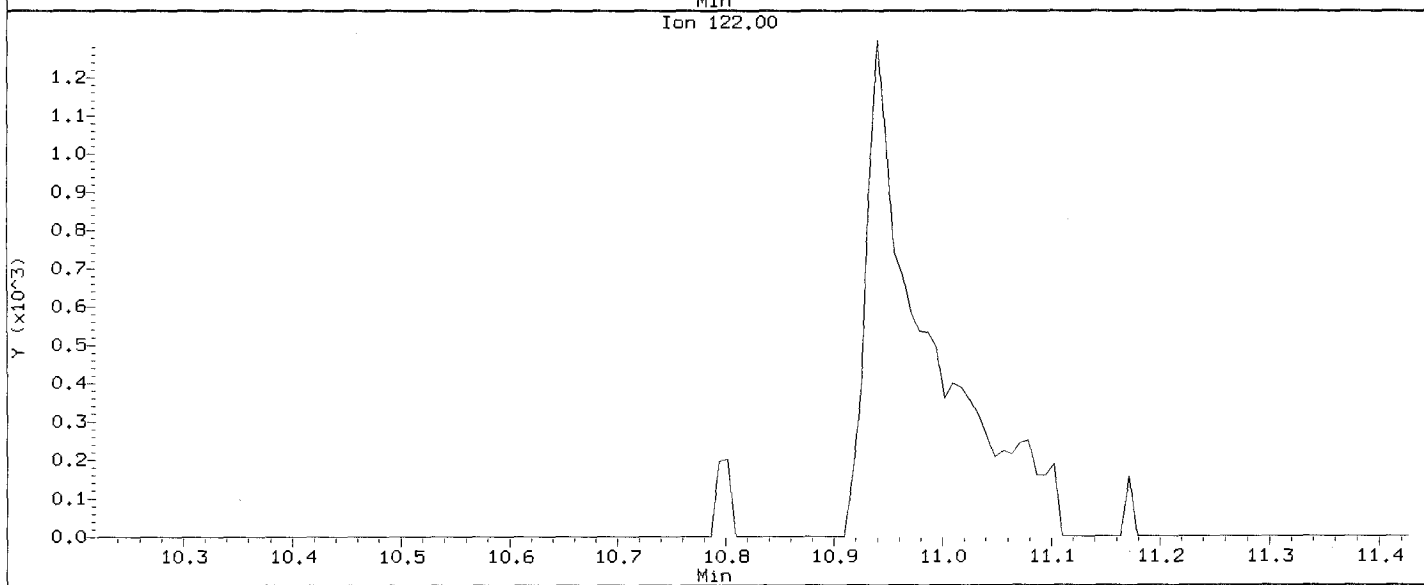
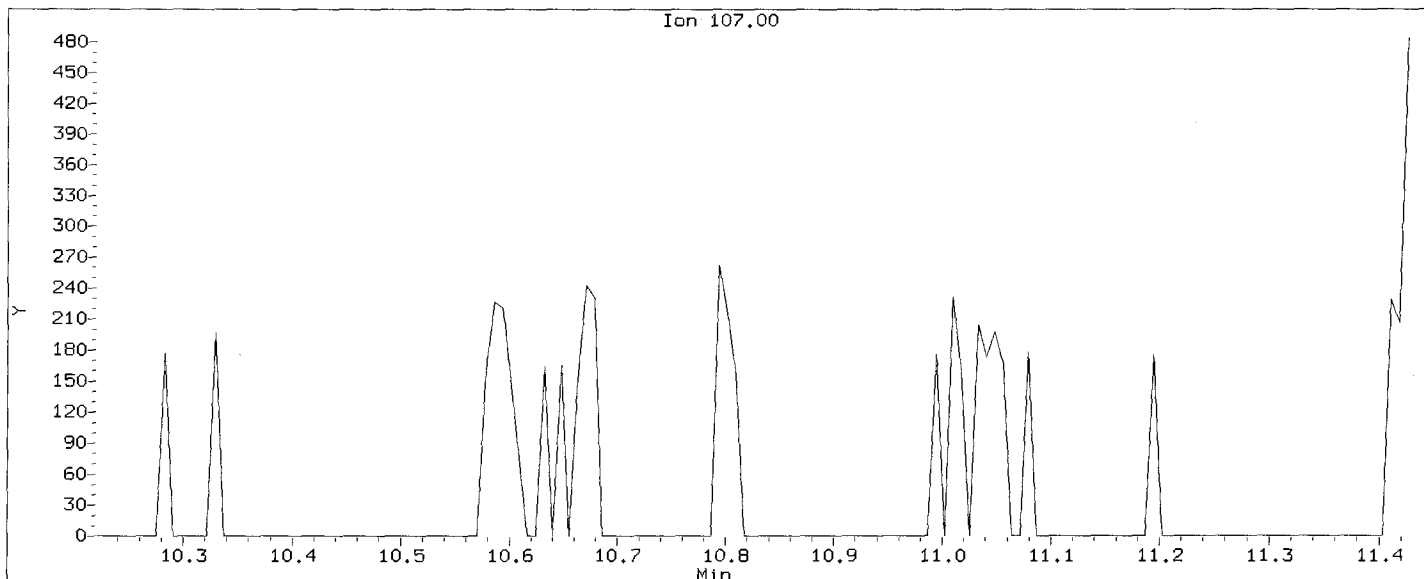
CO-ELUTION SUMMARY FOR FILE - vr82c.d

Lab ID: VR82C, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82c.d
Injection Date: 05-DEC-2012 15:13
Instrument: nt10.i
Client Sample ID: SG-04-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82cms.d
 Lab Smp Id: VR82CMS Client Smp ID: SG-04-S-C-12110 MS
 Inj Date : 05-DEC-2012 15:50
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82CMS
 Misc Info : 12-22481
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 8 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	12.20000	Weight of sample extracted (g)
M	15.80000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.482	6.474	(0.738)	163902	4.84215	471.4	
\$ 2 Phenol-d5	99	8.190	8.205	(0.932)	212061	5.06297	492.9	
3 Phenol	94	8.213	8.228	(0.935)	148278	3.36055	327.1	
\$ 5 2-Chlorophenol-d4	132	8.414	8.429	(0.958)	176770	4.87777	474.8	
7 1,3-Dichlorobenzene	146	8.716	8.731	(0.992)	132088	3.10121	301.9	
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	105814	4.00000		
9 1,4-Dichlorobenzene	146	8.816	8.839	(1.004)	128200	3.20846	312.3	
\$ 10 1,2-Dichlorobenzene-d4	152	9.166	9.189	(1.043)	81806	3.09575	301.4	
12 1,2-Dichlorobenzene	146	9.189	9.212	(1.046)	124369	3.24360	315.8	
11 Benzyl alcohol	108	9.111	9.134	(1.037)	72854	3.49178	339.9	
13 2-Methylphenol	108	9.391	9.414	(1.069)	96780	2.55233	248.5	
17 Hexachloroethane	117	9.818	9.841	(1.117)	48491	2.95368	287.5	
15 4-Methylphenol	108	9.694	9.709	(1.103)	201705	8.96713	872.9	
\$ 18 Nitrobenzene-d5	82	9.957	9.988	(0.870)	115152	3.08176	300.0	

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
=====	=====	==	=====	=====	=====	=====	=====
22 2,4-Dimethylphenol	107	10.794	10.825	(0.943)	306202	8.06978	785.6
24 Benzoic acid	105	11.064	11.118	(0.967)	441728	17.7771	1731
26 1,2,4-Trichlorobenzene	180	11.357	11.395	(0.993)	125857	5.67602	552.6
* 27 Naphthalene-d8	136	11.442	11.472	(1.000)	398767	4.00000	
28 Naphthalene	128	11.480	11.519	(1.003)	337345	3.47720	338.5
30 Hexachlorobutadiene	225	11.897	11.928	(1.040)	63542	2.55654	248.9
32 2-Methylnaphthalene	142	12.989	13.027	(1.135)	242664	3.35722	326.8
\$ 36 2-Fluorobiphenyl	172	13.848	13.894	(0.904)	289758	3.46540	337.4
39 Dimethylphthalate	163	14.854	14.892	(0.969)	281228	3.68476	358.7
40 Acenaphthylene	152	14.978	15.024	(0.977)	355910	3.18746	310.3
* 42 Acenaphthene-d10	164	15.326	15.372	(1.000)	236242	4.00000	
44 Acenaphthene	153	15.395	15.441	(1.005)	230536	3.61206	351.6
46 Dibenzofuran	168	15.751	15.797	(1.028)	327296	3.45536	336.4
50 Diethylphthalate	149	16.439	16.493	(1.073)	281764	3.52724	343.4
49 Fluorene	166	16.524	16.570	(1.078)	282561	3.59574	350.0
54 N-Nitrosodiphenylamine	169	16.825	16.871	(0.904)	180325	3.64073	354.4
\$ 55 2,4,6-Tribromophenol	330	17.110	17.156	(1.116)	82684	5.94167	578.4
57 Hexachlorobenzene	284	17.936	17.990	(0.964)	100426	3.47265	338.1
58 Pentachlorophenol	266	18.354	18.400	(0.986)	181377	9.80596	954.6
* 59 Phenanthrene-d10	188	18.610	18.656	(1.000)	403337	4.00000	
60 Phenanthrene	178	18.656	18.702	(1.002)	478567	4.79214	466.5
61 Anthracene	178	18.757	18.803	(1.008)	397145	3.69979	360.2
63 Di-n-butylphthalate	149	20.010	20.056	(1.075)	535588	4.21746	410.6
64 Fluoranthene	202	21.101	21.139	(1.134)	690187	5.48310	533.8
65 Pyrene	202	21.519	21.565	(0.907)	683838	5.09455	495.9
\$ 66 Terphenyl-d14	244	21.851	21.898	(0.921)	344087	3.83492	373.3
67 Butylbenzylphthalate	149	22.812	22.858	(0.961)	237806	4.36132	424.6
68 Benzo(a)anthracene	228	23.702	23.748	(0.999)	561923	4.31500	420.1
* 69 Chrysene-d12	240	23.733	23.771	(1.000)	458185	4.00000	
71 Chrysene	228	23.772	23.818	(1.002)	515695	4.45753	433.9
72 bis(2-Ethylhexyl)phthalate	149	23.865	23.918	(0.960)	363731	4.22656	411.4
* 134 Di-n-octylphthalate-d4	153	24.848	24.902	(1.000)	623711	4.00000	
73 Di-n-octylphthalate	149	24.863	24.909	(1.001)	544566	3.85160	374.9
76 Benzo(a)pyrene	252	26.056	26.102	(0.996)	455369	3.62008	352.4
* 77 Perylene-d12	264	26.156	26.210	(1.000)	440765	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.411	28.489	(1.086)	548316	3.84621	374.4
79 Dibenzo(a,h)anthracene	278	28.435	28.512	(1.087)	437128	3.86376	376.1
80 Benzo(g,h,i)perylene	276	29.064	29.149	(1.111)	495360	4.06008	395.2
105 1-methylnaphthalene	142	13.221	13.259	(1.155)	225139	3.39370	330.4
187 Total Benzofluoranthenes	252	25.490	25.575	(0.975)	1096546	8.45399	823.0
98 Retene	219	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	16.145	16.183	(1.053)	76533	1241.37	120800

12.6.12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82cms.d
 Lab Smp Id: VR82CMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-04-S-C-12110
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	105814	29.72
27 Naphthalene-d8	299399	149700	598798	398767	33.19
42 Acenaphthene-d10	178564	89282	357128	236242	32.30
59 Phenanthrene-d10	305410	152705	610820	403337	32.06
69 Chrysene-d12	323853	161926	647706	458185	41.48
134 Di-n-octylphthala	427845	213922	855690	623711	45.78
77 Perylene-d12	305316	152658	610632	440765	44.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.26
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.61	-0.25
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.85	-0.22
77 Perylene-d12	26.21	25.71	26.71	26.16	-0.21

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82CMS	Client Smp ID: SG-04-S-C-12110 MS
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: MS
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22481	

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	486.7	327.1	67.21	30-160
7 1,3-Dichlorobenzen	486.7	301.9	62.02	30-160
9 1,4-Dichlorobenzen	486.7	312.3	64.17	30-160
11 Benzyl alcohol	486.7	339.9	69.84	30-160
12 1,2-Dichlorobenzen	486.7	315.8	64.87	30-160
13 2-Methylphenol	486.7	248.5	51.05	30-160
15 4-Methylphenol	973.5	872.9	89.67	30-160
17 Hexachloroethane	486.7	287.5	59.07	30-160
22 2,4-Dimethylphenol	1460	785.6	53.80	30-160
24 Benzoic acid	2677	1731	64.64	30-160
26 1,2,4-Trichloroben	486.7	552.6	113.52	30-160
28 Naphthalene	486.7	338.5	69.54	30-160
30 Hexachlorobutadien	486.7	248.9	51.13	30-160
32 2-Methylnaphthalen	486.7	326.8	67.14	30-160
39 Dimethylphthalate	486.7	358.7	73.70	30-160
40 Acenaphthylene	486.7	310.3	63.75	30-160
44 Acenaphthene	486.7	351.6	72.24	30-160
46 Dibenzofuran	486.7	336.4	69.11	30-160
49 Fluorene	486.7	350.0	71.91	30-160
50 Diethylphthalate	486.7	343.4	70.54	30-160
54 N-Nitrosodiphenyla	486.7	354.4	72.81	30-160
57 Hexachlorobenzene	486.7	338.1	69.45	30-160
58 Pentachlorophenol	1460	954.6	65.37	30-160
60 Phenanthrene	486.7	466.5	95.84	30-160
61 Anthracene	486.7	360.2	74.00	30-160
63 Di-n-butylphthalat	486.7	410.6	84.35	30-160
64 Fluoranthene	486.7	533.8	109.66	30-160
65 Pyrene	486.7	495.9	101.89	30-160
67 Butylbenzylphthala	486.7	424.6	87.23	30-160
68 Benzo(a)anthracene	486.7	420.1	86.30	30-160
71 Chrysene	486.7	433.9	89.15	30-160
72 bis(2-Ethylhexyl)p	486.7	411.4	84.53	30-160
73 Di-n-octylphthalat	486.7	374.9	77.03	30-160

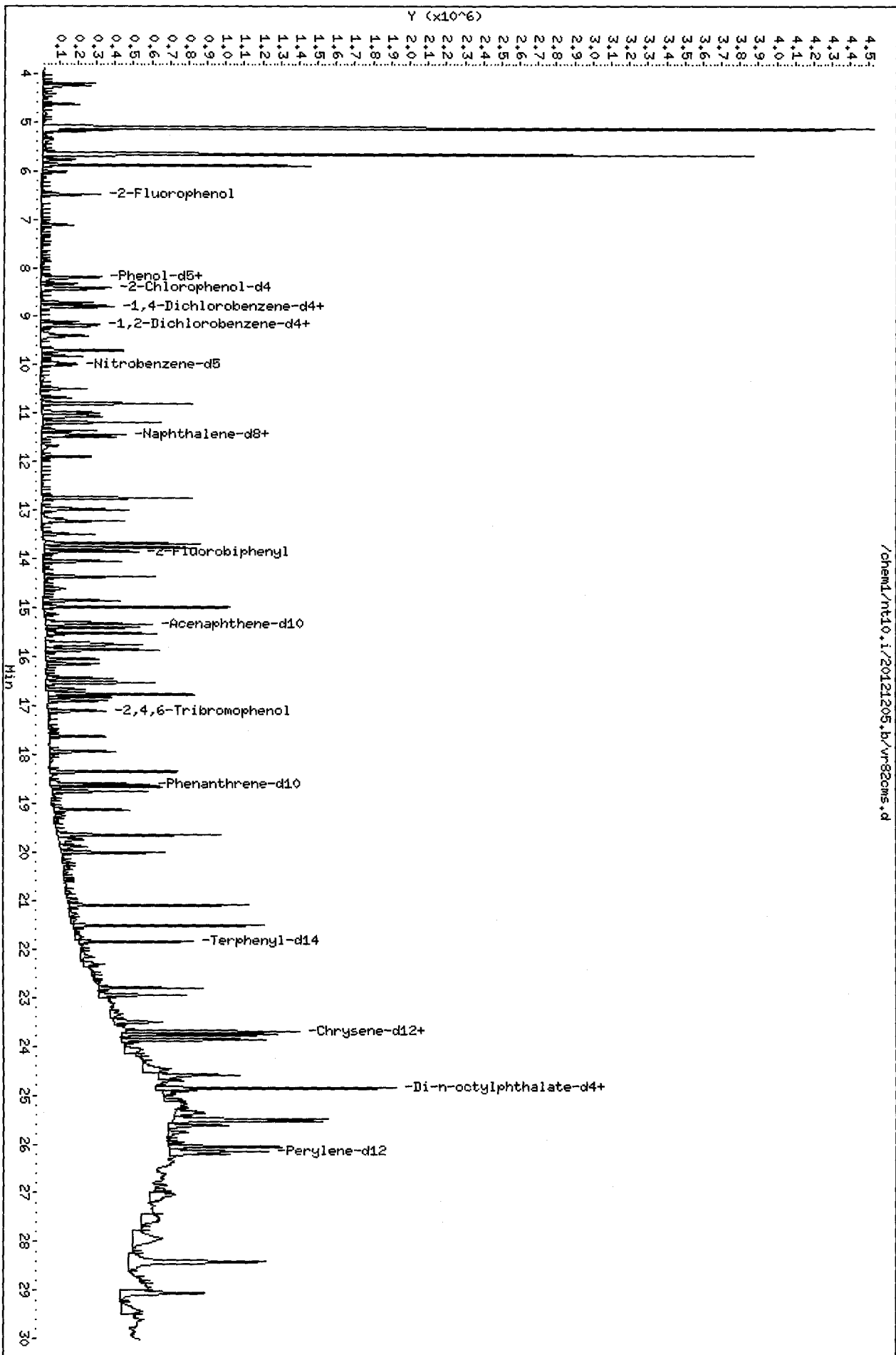
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
76 Benzo(a)pyrene	486.7	352.4	72.40	30-160
78 Indeno(1,2,3-cd)py	486.7	374.4	76.92	30-160
79 Dibenzo(a,h)anthra	486.7	376.1	77.28	30-160
80 Benzo(g,h,i)peryle	486.7	395.2	81.20	30-160
105 1-methylnaphthalen	486.7	330.4	67.87	30-160
187 Total Benzofluoran	973.5	823.0	84.54	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	730.1	471.4	64.56	30-160
\$ 2 Phenol-d5	730.1	492.9	67.51	30-160
\$ 5 2-Chlorophenol-d4	730.1	474.8	65.04	30-160
\$ 10 1,2-Dichlorobenzen	486.7	301.4	61.92	30-160
\$ 18 Nitrobenzene-d5	486.7	300.0	61.64	30-160
\$ 36 2-Fluorobiphenyl	486.7	337.4	69.31	30-160
\$ 55 2,4,6-Tribromophen	730.1	578.4	79.22	30-160
\$ 66 Terphenyl-d14	486.7	373.3	76.70	30-160

Data File: /chem1/nt10.i/20121205.b/vr82cms.d
 Date: 05-DEC-2012 15:50
 Client ID: SG-04-S-C-12110 MS
 Sample Info: VR82CMS
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.i
 Operator: VTS/YZ
 Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82cms.d



VR82 : 00404

CO-ELUTION SUMMARY FOR FILE - vr82cms.d

Lab ID: VR82CMS, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82cmsd.d
 Lab Smp Id: VR82CMSD Client Smp ID: SG-04-S-C-12110 MSD
 Inj Date : 05-DEC-2012 16:26
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82CMSD
 Misc Info : 12-22481
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 9 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	12.10000	Weight of sample extracted (g)
M	15.80000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.490	6.474	(0.739)	161656	4.86377	477.4	
\$ 2 Phenol-d5	99	8.190	8.205	(0.932)	206878	5.03021	493.7	
3 Phenol	94	8.213	8.228	(0.935)	136141	3.14231	308.4	
\$ 5 2-Chlorophenol-d4	132	8.414	8.429	(0.958)	174190	4.89512	480.5	
7 1,3-Dichlorobenzene	146	8.715	8.731	(0.992)	120640	2.88460	283.1	
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	103900	4.00000		
9 1,4-Dichlorobenzene	146	8.816	8.839	(1.004)	119665	3.05003	299.4	
\$ 10 1,2-Dichlorobenzene-d4	152	9.165	9.189	(1.043)	78962	3.04317	298.7	
12 1,2-Dichlorobenzene	146	9.189	9.212	(1.046)	115651	3.07179	301.5	
11 Benzyl alcohol	108	9.111	9.134	(1.037)	67672	3.30316	324.2	
13 2-Methylphenol	108	9.390	9.414	(1.069)	83717	2.24850	220.7	
17 Hexachloroethane	117	9.817	9.841	(1.117)	44042	2.73210	268.2	
15 4-Methylphenol	108	9.693	9.709	(1.103)	193863	8.77726	861.5	
\$ 18 Nitrobenzene-d5	82	9.957	9.988	(0.870)	109908	3.05517	299.9	

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
22 2,4-Dimethylphenol	107	10.794	10.825	(0.943)	122775	3.36080	329.9 (R)
24 Benzoic acid	105	11.071	11.118	(0.968)	461751	19.1486	1879
26 1,2,4-Trichlorobenzene	180	11.356	11.395	(0.993)	118741	5.56218	545.9
* 27 Naphthalene-d8	136	11.441	11.472	(1.000)	383920	4.00000	
28 Naphthalene	128	11.480	11.519	(1.003)	314847	3.37080	330.9
30 Hexachlorobutadiene	225	11.897	11.928	(1.040)	60337	2.52147	247.5
32 2-Methylnaphthalene	142	12.988	13.027	(1.135)	224605	3.22755	316.8
\$ 36 2-Fluorobiphenyl	172	13.847	13.894	(0.904)	286634	3.55085	348.5
39 Dimethylphthalate	163	14.846	14.892	(0.969)	266593	3.61815	355.1
40 Acenaphthylene	152	14.977	15.024	(0.977)	334760	3.10545	304.8
* 42 Acenaphthene-d10	164	15.325	15.372	(1.000)	228071	4.00000	
44 Acenaphthene	153	15.395	15.441	(1.005)	218103	3.53968	347.4
46 Dibenzofuran	168	15.750	15.797	(1.028)	315001	3.44470	338.1
50 Diethylphthalate	149	16.439	16.493	(1.073)	276121	3.58043	351.4
49 Fluorene	166	16.516	16.570	(1.078)	273445	3.60440	353.8
54 N-Nitrosodiphenylamine	169	16.817	16.871	(0.904)	175083	3.68169	361.4
\$ 55 2,4,6-Tribromophenol	330	17.110	17.156	(1.116)	81570	6.07162	595.9
57 Hexachlorobenzene	284	17.936	17.990	(0.964)	98006	3.52970	346.5
58 Pentachlorophenol	266	18.346	18.400	(0.986)	169155	9.52497	934.9
* 59 Phenanthrene-d10	188	18.601	18.656	(1.000)	387255	4.00000	
60 Phenanthrene	178	18.656	18.702	(1.003)	484775	5.05590	496.3
61 Anthracene	178	18.748	18.803	(1.008)	386715	3.75224	368.3
63 Di-n-butylphthalate	149	20.002	20.056	(1.075)	527412	4.32555	424.6
64 Fluoranthene	202	21.100	21.139	(1.134)	690603	5.71424	560.9
65 Pyrene	202	21.518	21.565	(0.907)	677072	5.17983	508.4
\$ 66 Terphenyl-d14	244	21.851	21.898	(0.921)	349330	3.99808	392.4
67 Butylbenzylphthalate	149	22.803	22.858	(0.961)	229799	4.32784	424.8
68 Benzo(a)anthracene	228	23.702	23.748	(0.999)	554491	4.37246	429.2
* 69 Chrysene-d12	240	23.725	23.771	(1.000)	446183	4.00000	
71 Chrysene	228	23.771	23.818	(1.002)	541974	4.81069	472.2
72 bis(2-Ethylhexyl)phthalate	149	23.864	23.918	(0.960)	342352	4.18959	411.2
* 134 Di-n-octylphthalate-d4	153	24.847	24.902	(1.000)	592231	4.00000	
73 Di-n-octylphthalate	149	24.855	24.909	(1.000)	509530	3.79536	372.5
76 Benzo(a)pyrene	252	26.047	26.102	(0.996)	436735	3.61531	354.9
* 77 Perylene-d12	264	26.148	26.210	(1.000)	423286	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.411	28.489	(1.087)	522171	3.81407	374.4
79 Dibenzo(a,h)anthracene	278	28.434	28.512	(1.087)	420662	3.87175	380.0
80 Benzo(g,h,i)perylene	276	29.063	29.149	(1.111)	462785	3.94971	387.7
105 1-methylnaphthalene	142	13.220	13.259	(1.155)	211109	3.30527	324.4
187 Total Benzofluoranthenes	252	25.529	25.575	(0.976)	1076301	8.64056	848.1
98 Retene	219	22.137	22.215	(0.933)	18908		
120 2,3,4,6-Tetrachlorophenol	232	16.145	16.183	(1.053)	73979	1242.93	122000

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Handwritten: 12-6-12

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82cmsd.d
 Lab Smp Id: VR82CMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22481

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-04-S-C-12110
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	103900	27.37
27 Naphthalene-d8	299399	149700	598798	383920	28.23
42 Acenaphthene-d10	178564	89282	357128	228071	27.73
59 Phenanthrene-d10	305410	152705	610820	387255	26.80
69 Chrysene-d12	323853	161926	647706	446183	37.77
134 Di-n-octylphthala	427845	213922	855690	592231	38.42
77 Perylene-d12	305316	152658	610632	423286	38.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.27
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.60	-0.29
69 Chrysene-d12	23.77	23.27	24.27	23.72	-0.20
134 Di-n-octylphthala	24.90	24.40	25.40	24.85	-0.22
77 Perylene-d12	26.21	25.71	26.71	26.15	-0.24

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82CMSD	Client Smp ID: SG-04-S-C-12110 MSD
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: MSD
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22481	

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	490.8	308.4	62.85	30-160
7 1,3-Dichlorobenzen	490.8	283.1	57.69	30-160
9 1,4-Dichlorobenzen	490.8	299.4	61.00	30-160
11 Benzyl alcohol	490.8	324.2	66.06	30-160
12 1,2-Dichlorobenzen	490.8	301.5	61.44	30-160
13 2-Methylphenol	490.8	220.7	44.97	30-160
15 4-Methylphenol	981.5	861.5	87.77	30-160
17 Hexachloroethane	490.8	268.2	54.64	30-160
22 2,4-Dimethylphenol	1472	329.9	22.41*	30-160
24 Benzoic acid	2699	1879	69.63	30-160
26 1,2,4-Trichloroben	490.8	545.9	111.24	30-160
28 Naphthalene	490.8	330.9	67.42	30-160
30 Hexachlorobutadien	490.8	247.5	50.43	30-160
32 2-Methylnaphthalen	490.8	316.8	64.55	30-160
39 Dimethylphthalate	490.8	355.1	72.36	30-160
40 Acenaphthylene	490.8	304.8	62.11	30-160
44 Acenaphthene	490.8	347.4	70.79	30-160
46 Dibenzofuran	490.8	338.1	68.89	30-160
49 Fluorene	490.8	353.8	72.09	30-160
50 Diethylphthalate	490.8	351.4	71.61	30-160
54 N-Nitrosodiphenyla	490.8	361.4	73.63	30-160
57 Hexachlorobenzene	490.8	346.5	70.59	30-160
58 Pentachlorophenol	1472	934.9	63.50	30-160
60 Phenanthrene	490.8	496.3	101.12	30-160
61 Anthracene	490.8	368.3	75.04	30-160
63 Di-n-butylphthalat	490.8	424.6	86.51	30-160
64 Fluoranthene	490.8	560.9	114.28	30-160
65 Pyrene	490.8	508.4	103.60	30-160
67 Butylbenzylphthala	490.8	424.8	86.56	30-160
68 Benzo(a)anthracene	490.8	429.2	87.45	30-160
71 Chrysene	490.8	472.2	96.21	30-160
72 bis(2-Ethylhexyl)p	490.8	411.2	83.79	30-160
73 Di-n-octylphthalat	490.8	372.5	75.91	30-160

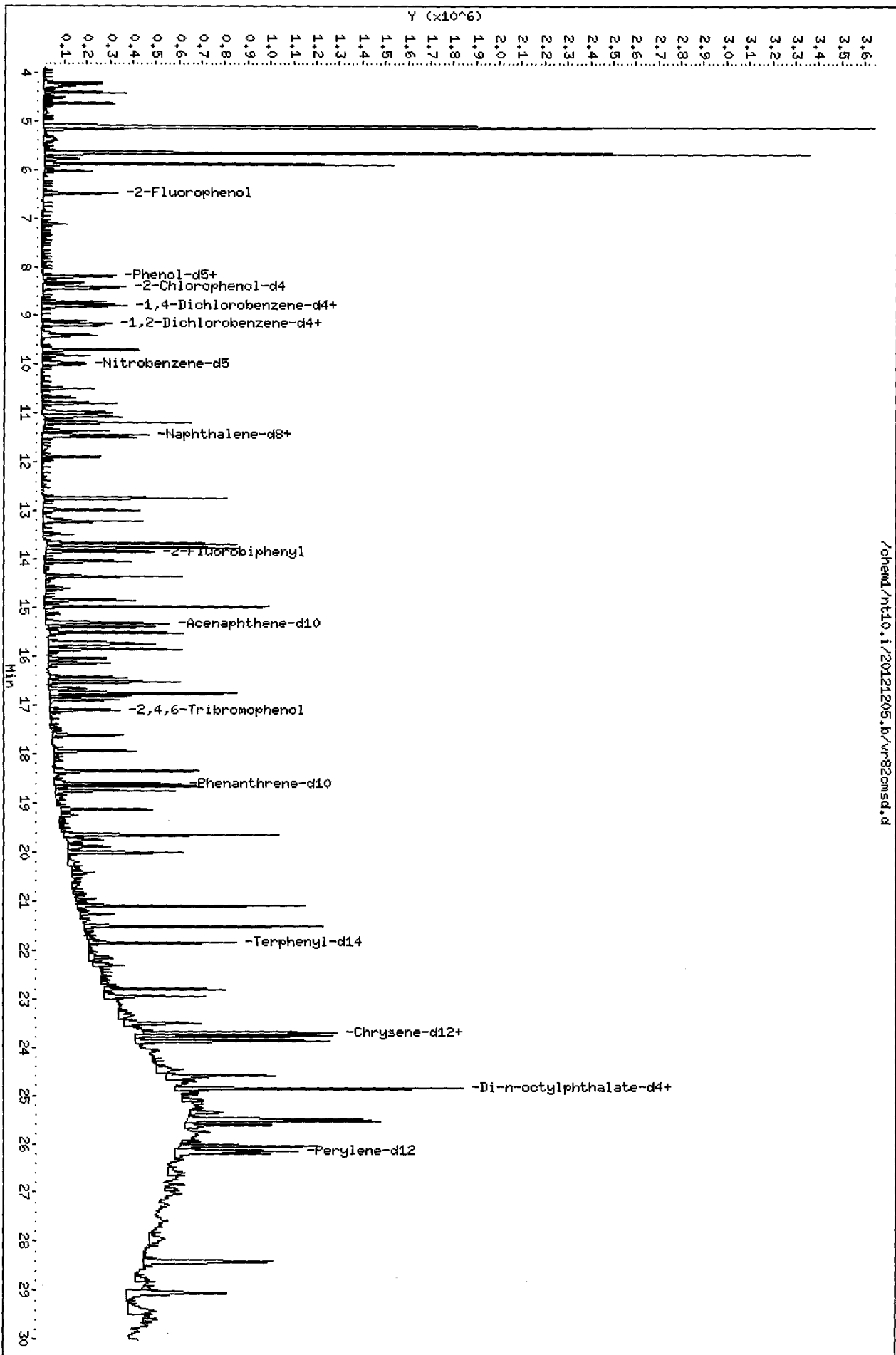
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
76 Benzo(a)pyrene	490.8	354.9	72.31	30-160
78 Indeno(1,2,3-cd)py	490.8	374.4	76.28	30-160
79 Dibenzo(a,h)anthra	490.8	380.0	77.44	30-160
80 Benzo(g,h,i)peryle	490.8	387.7	78.99	30-160
105 1-methylnaphthalen	490.8	324.4	66.11	30-160
187 Total Benzofluoran	981.5	848.1	86.41	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	736.1	477.4	64.85	30-160
\$ 2 Phenol-d5	736.1	493.7	67.07	30-160
\$ 5 2-Chlorophenol-d4	736.1	480.5	65.27	30-160
\$ 10 1,2-Dichlorobenzen	490.8	298.7	60.86	30-160
\$ 18 Nitrobenzene-d5	490.8	299.9	61.10	30-160
\$ 36 2-Fluorobiphenyl	490.8	348.5	71.02	30-160
\$ 55 2,4,6-Tribromophen	736.1	595.9	80.95	30-160
\$ 66 Terphenyl-d14	490.8	392.4	79.96	30-160

Data File: /chem1/nt10.i/20121205.b/vr82cmsd.d
 Date: 05-DEC-2012 16:26
 Client ID: SG-04-S-C-12110 MSD
 Sample Info: VR82CHSD
 Volume Injected (uL): 1.0
 Column phases: ZB-5msi

Instrument: nt10.i
 Operator: VTS/VZ
 Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82cmsd.d



CO-ELUTION SUMMARY FOR FILE - vr82cmsd.d

Lab ID: VR82CMSD, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82d.d
 Lab Smp Id: VR82D Client Smp ID: SG-05-S-C-121108
 Inj Date : 05-DEC-2012 17:03
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82D
 Misc Info : 12-22482
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	30.10000	Weight of sample extracted (g)
M	66.10000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol		112	6.582	6.474	(0.749)	146657	4.55806	446.7
\$ 2 Phenol-d5		99	8.244	8.205	(0.938)	195314	4.90569	480.8
3 Phenol		94	8.259	8.228	(0.940)	75254	1.79426	175.8
\$ 5 2-Chlorophenol-d4		132	8.452	8.429	(0.962)	168124	4.88051	478.3
7 1,3-Dichlorobenzene		146				Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4		152	8.785	8.808	(1.000)	100582	4.00000	
9 1,4-Dichlorobenzene		146				Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4		152	9.165	9.189	(1.043)	77860	3.09969	303.8
12 1,2-Dichlorobenzene		146				Compound Not Detected.		
11 Benzyl alcohol		108	9.150	9.134	(1.042)	32294	1.62831	159.6
13 2-Methylphenol		108				Compound Not Detected.		
17 Hexachloroethane		117				Compound Not Detected.		
15 4-Methylphenol		108	9.717	9.709	(1.106)	16273	0.76107	74.59
\$ 18 Nitrobenzene-d5		82	9.965	9.988	(0.871)	107541	2.90049	284.3
22 2,4-Dimethylphenol		107				Compound Not Detected.		

Compounds	QUANT	SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
									ON-COLUMN	FINAL
	MASS								(ug/mL)	(ug/kg)
24 Benzoic acid	105		11.110	11.118	(0.971)			310556	12.9349	1268 (M)
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.							
* 27 Naphthalene-d8	136		11.441	11.472	(1.000)			395685	4.00000	
28 Naphthalene	128		11.480	11.519	(1.003)			49541	0.51462	50.43
30 Hexachlorobutadiene	225		Compound Not Detected.							
32 2-Methylnaphthalene	142		12.988	13.027	(1.135)			18570	0.25891	25.37
\$ 36 2-Fluorobiphenyl	172		13.847	13.894	(0.904)			282401	3.26321	319.8
39 Dimethylphthalate	163		Compound Not Detected.							
40 Acenaphthylene	152		Compound Not Detected.							
* 42 Acenaphthene-d10	164		15.325	15.372	(1.000)			244510	4.00000	
44 Acenaphthene	153		15.395	15.441	(1.005)			17085	0.25864	25.35
46 Dibenzofuran	168		15.751	15.797	(1.028)			27275	0.27821	27.27
50 Diethylphthalate	149		Compound Not Detected.							
49 Fluorene	166		16.524	16.570	(1.078)			30678	0.37719	36.97
54 N-Nitrosodiphenylamine	169		Compound Not Detected.							
\$ 55 2,4,6-Tribromophenol	330		17.110	17.156	(1.116)			76708	5.32584	521.9
57 Hexachlorobenzene	284		Compound Not Detected.							
58 Pentachlorophenol	266		Compound Not Detected.							
* 59 Phenanthrene-d10	188		18.609	18.656	(1.000)			410498	4.00000	
60 Phenanthrene	178		18.656	18.702	(1.002)			188078	1.85047	181.3
61 Anthracene	178		18.756	18.803	(1.008)			44081	0.40349	39.54
63 Di-n-butylphthalate	149		Compound Not Detected.							
64 Fluoranthene	202		21.101	21.139	(1.134)			402278	3.14009	307.7
65 Pyrene	202		21.526	21.565	(0.907)			395803	3.09622	303.4
\$ 66 Terphenyl-d14	244		21.851	21.898	(0.921)			323848	3.78991	371.4
67 Butylbenzylphthalate	149		Compound Not Detected.							
68 Benzo (a) anthracene	228		23.709	23.748	(0.999)			139093	1.12152	109.9
* 69 Chrysene-d12	240		23.733	23.771	(1.000)			436356	4.00000	
71 Chrysene	228		23.771	23.818	(1.002)			212337	1.92720	188.9
72 bis(2-Ethylhexyl)phthalate	149		23.872	23.918	(0.960)			210778	2.64321	259.0
* 134 Di-n-octylphthalate-d4	153		24.855	24.902	(1.000)			577941	4.00000	
73 Di-n-octylphthalate	149		24.863	24.909	(1.000)			30668	0.23409	22.94 M
76 Benzo (a) pyrene	252		26.063	26.102	(0.996)			89856	0.76837	75.30
* 77 Perylene-d12	264		26.171	26.210	(1.000)			409766	4.00000	
78 Indeno (1,2,3-cd) pyrene	276		28.434	28.489	(1.086)			68831	0.51935	50.90
79 Dibenzo (a,h) anthracene	278		28.458	28.512	(1.087)			22287	0.21190	20.77 (M)
80 Benzo (g,h,i) perylene	276		29.094	29.149	(1.112)			72191	0.63645	62.37
105 1-methylnaphthalene	142		13.220	13.259	(1.155)			8656	0.13149	12.89
187 Total Benzofluoranthenes	252		25.498	25.575	(0.974)			272772	2.26207	221.7
98 Retene	219		22.145	22.215	(0.933)			241864		
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.							

QC Flag Legend

M - Compound response manually integrated.

12.6.12
 UD

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82d.d
 Lab Smp Id: VR82D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22482

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-05-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	100582	23.31
27 Naphthalene-d8	299399	149700	598798	395685	32.16
42 Acenaphthene-d10	178564	89282	357128	244510	36.93
59 Phenanthrene-d10	305410	152705	610820	410498	34.41
69 Chrysene-d12	323853	161926	647706	436356	34.74
134 Di-n-octylphthala	427845	213922	855690	577941	35.08
77 Perylene-d12	305316	152658	610632	409766	34.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.26
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.61	-0.25
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.86	-0.19
77 Perylene-d12	26.21	25.71	26.71	26.17	-0.15

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.

Analytical Resources, Inc.

RECOVERY REPORT

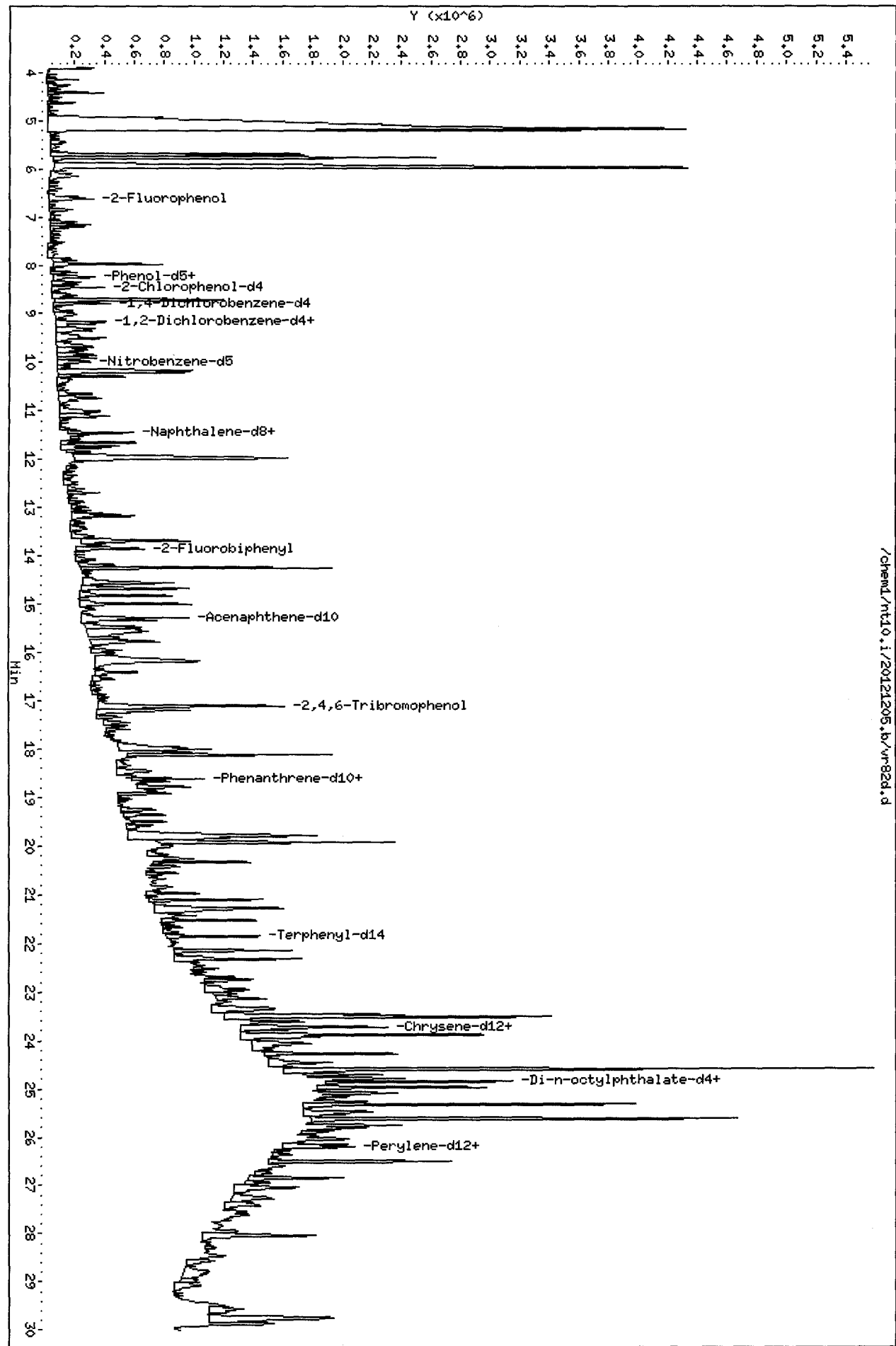
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Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82D	Client Smp ID: SG-05-S-C-121108
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22482	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	735.0	446.7	60.77	30-160
\$ 2 Phenol-d5	735.0	480.8	65.41	30-160
\$ 5 2-Chlorophenol-d4	735.0	478.3	65.07	30-160
\$ 10 1,2-Dichlorobenzen	490.0	303.8	61.99	30-160
\$ 18 Nitrobenzene-d5	490.0	284.3	58.01	30-160
\$ 36 2-Fluorobiphenyl	490.0	319.8	65.26	30-160
\$ 55 2,4,6-Tribromophen	735.0	521.9	71.01	30-160
\$ 66 Terphenyl-d14	490.0	371.4	75.80	30-160

Data File: /chem1/nt10.i/20121205.b/vr82d.d
 Date: 05-DEC-2012 17:03
 Client ID: SG-05-S-C-121108
 Sample Info: VR82D
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.i
 Operator: VTS/VZ
 Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82d.d



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

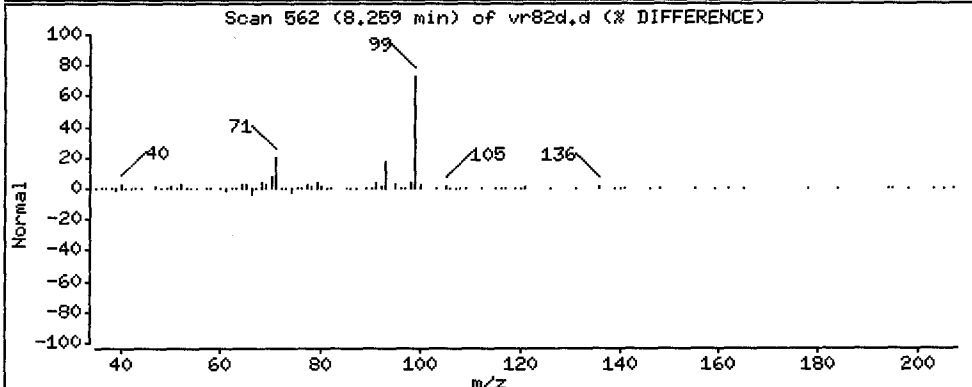
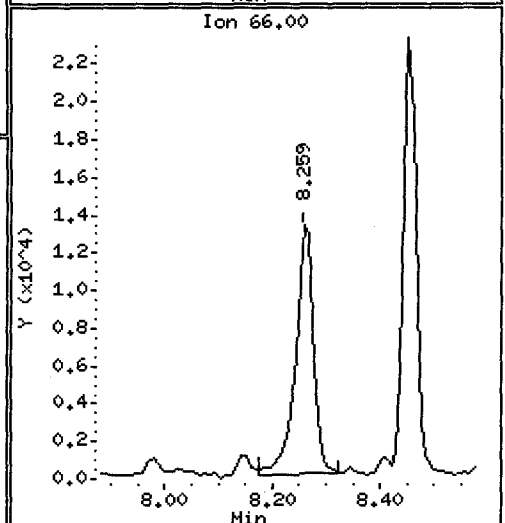
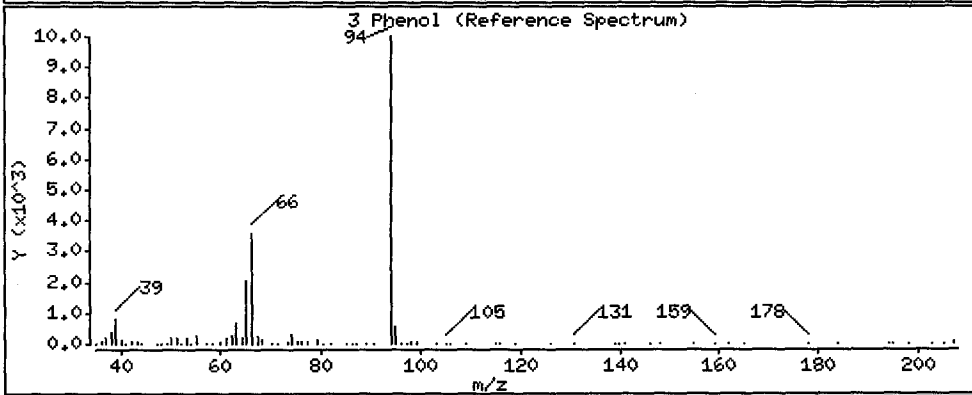
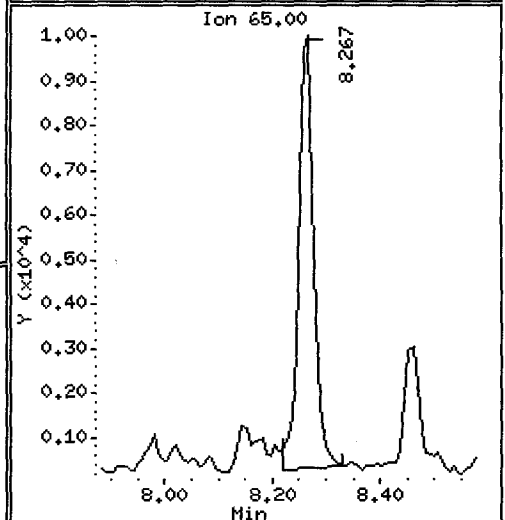
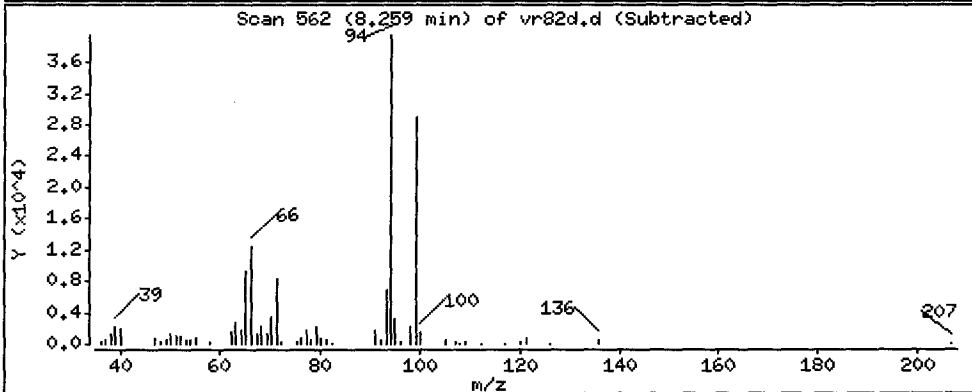
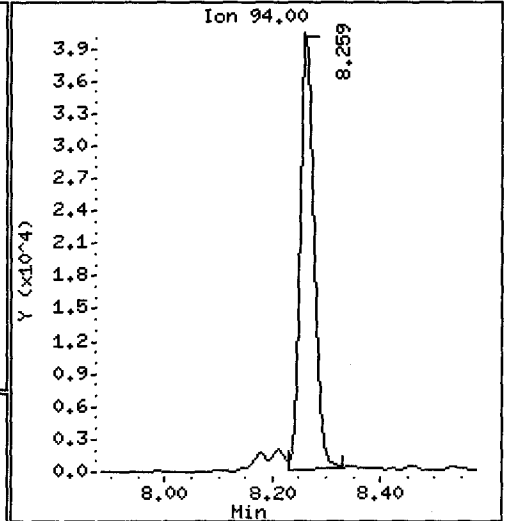
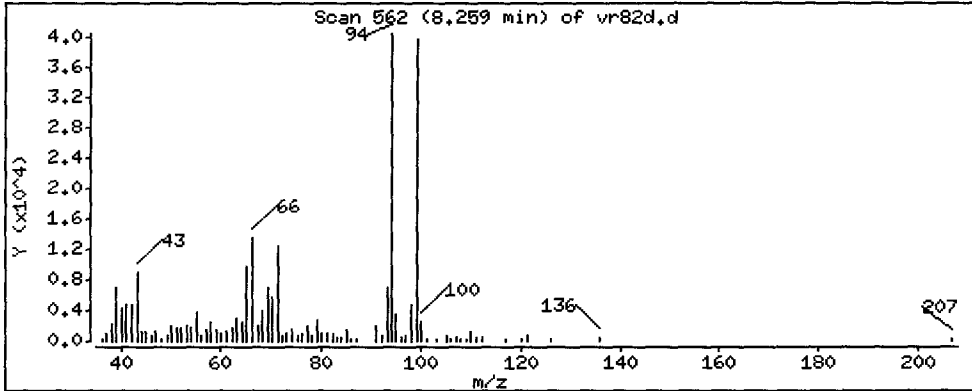
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 175.8 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SC-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

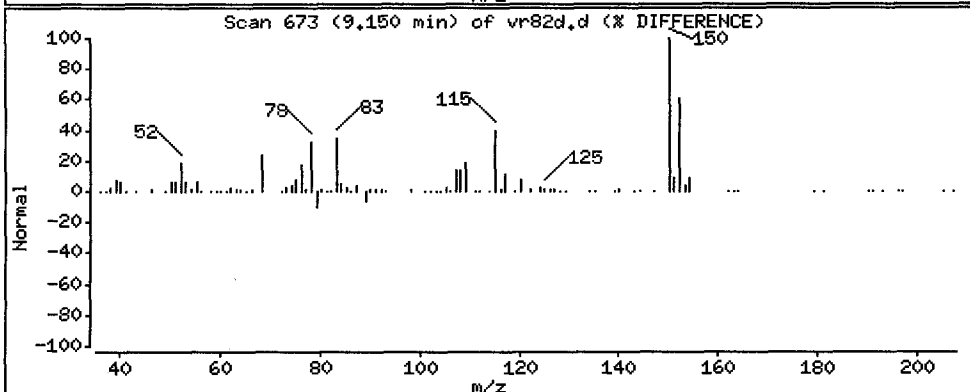
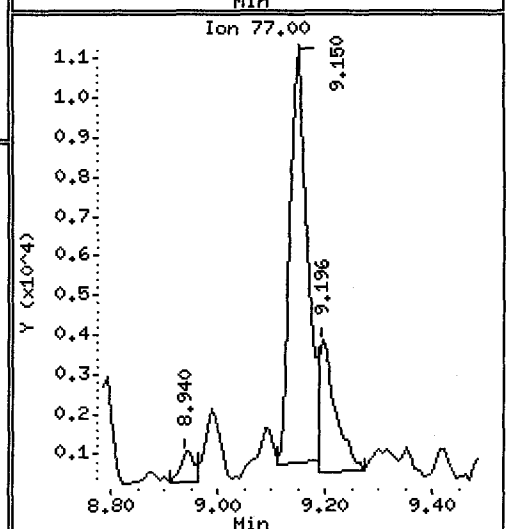
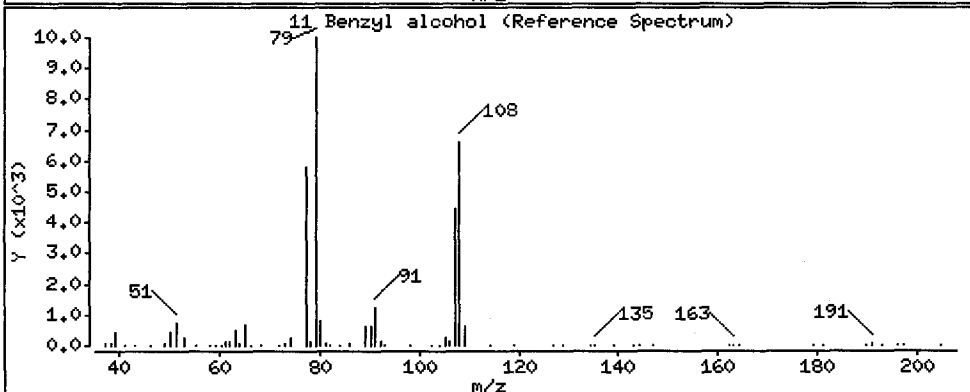
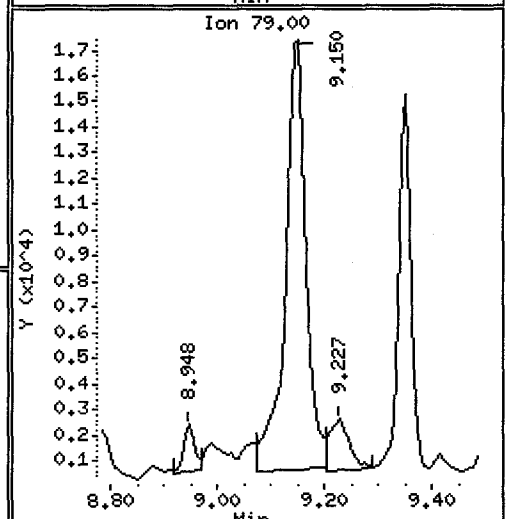
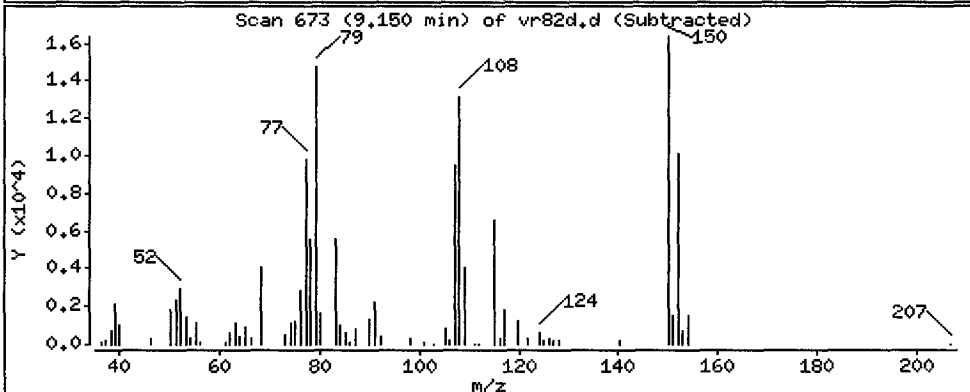
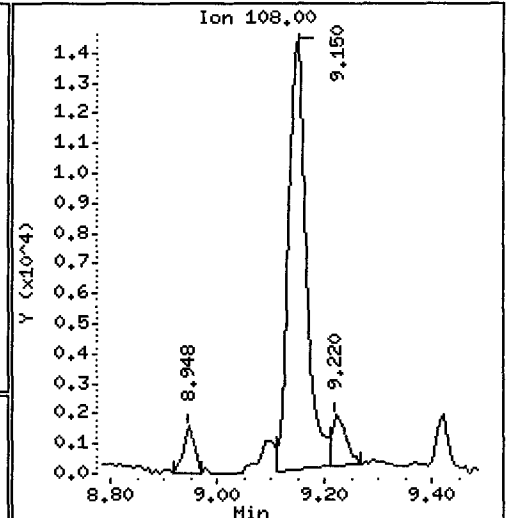
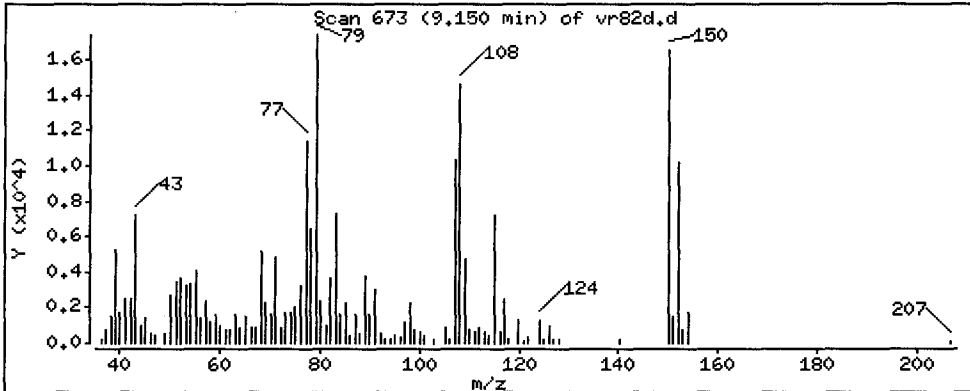
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 159.6 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

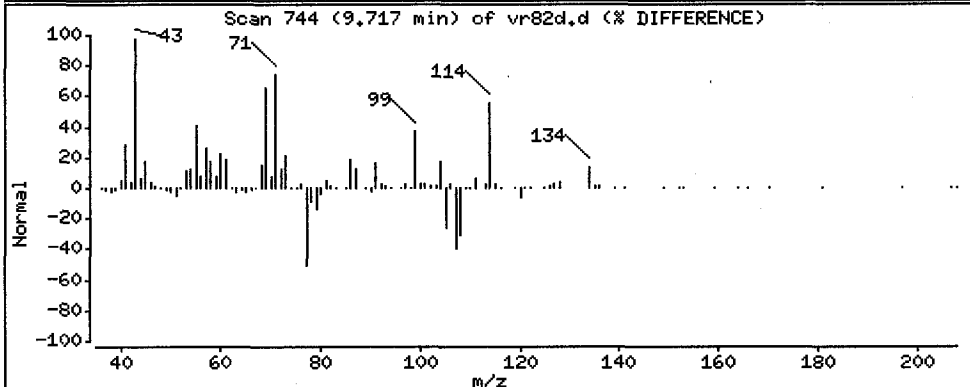
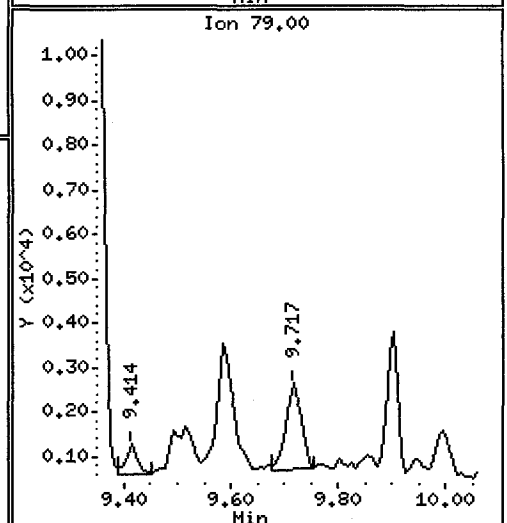
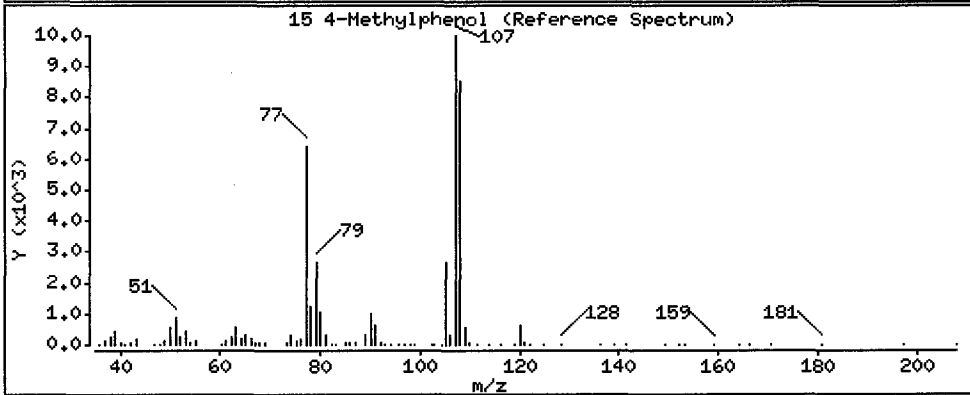
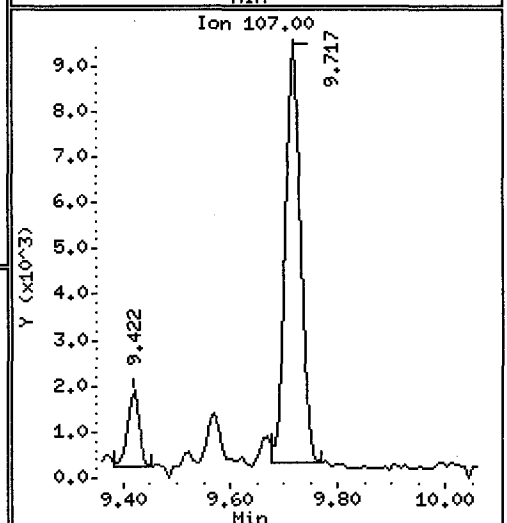
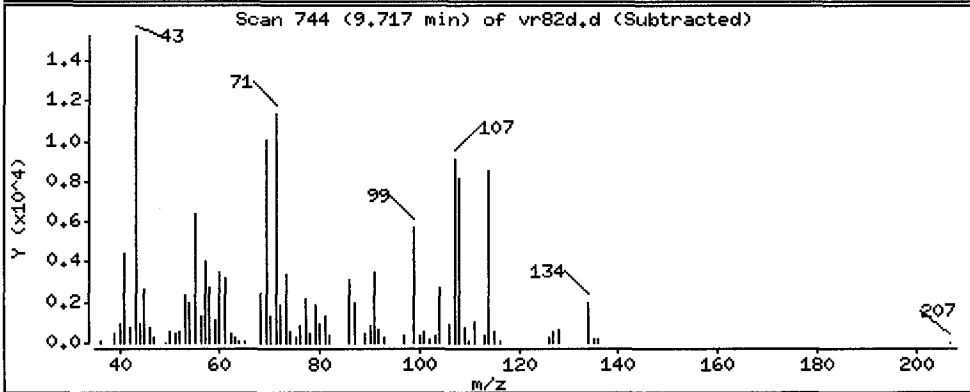
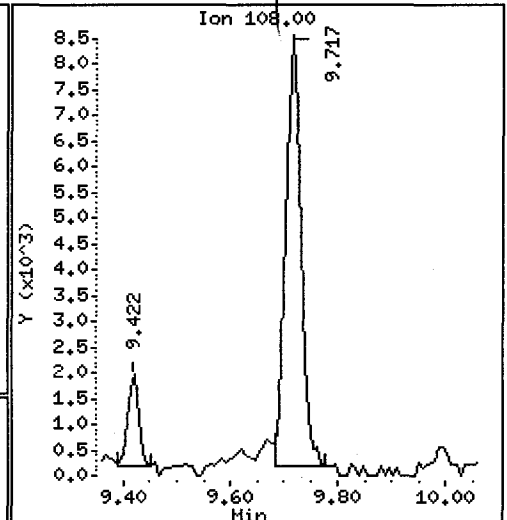
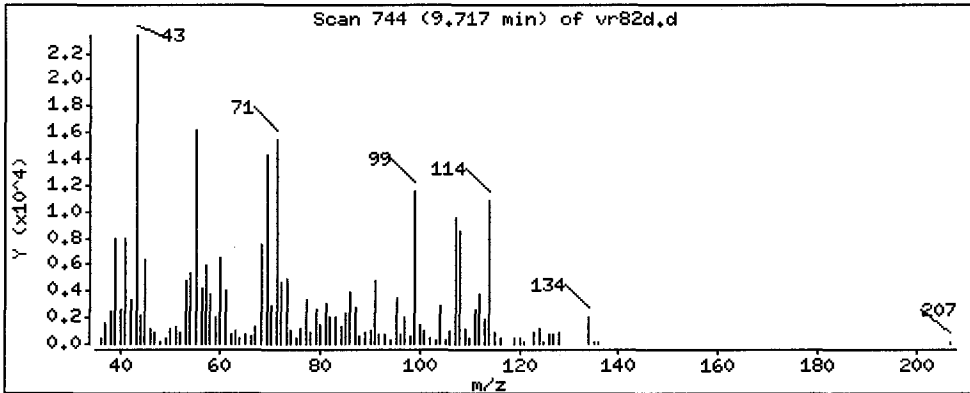
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 74.59 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

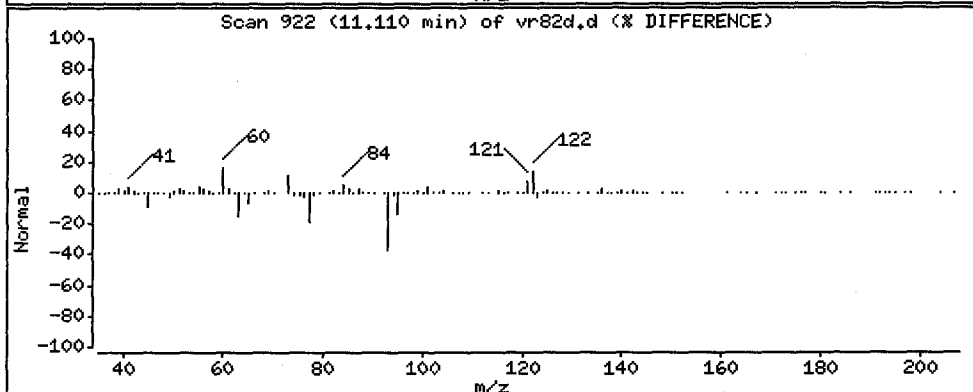
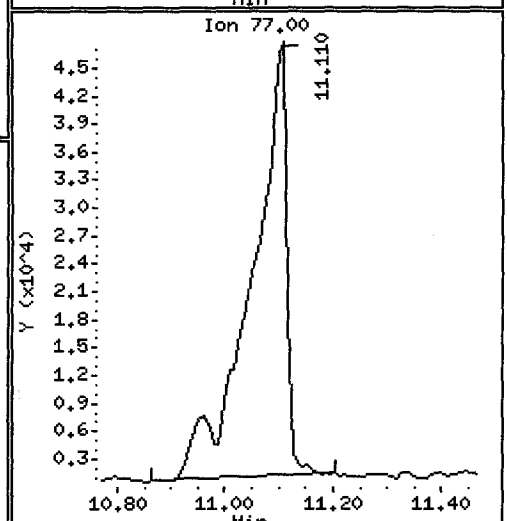
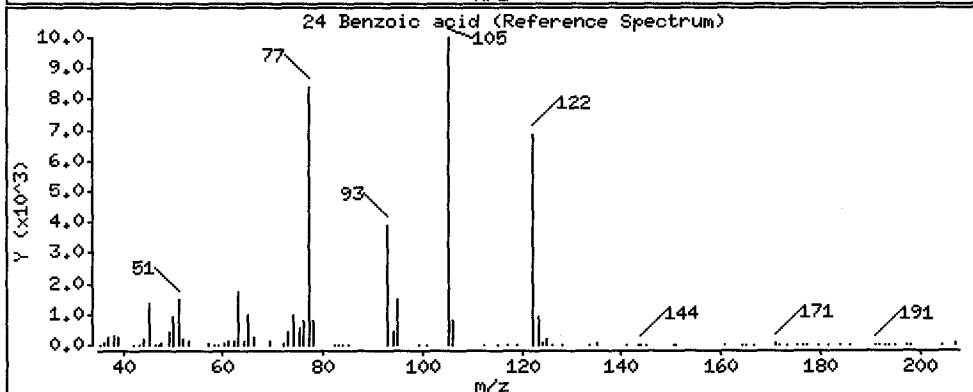
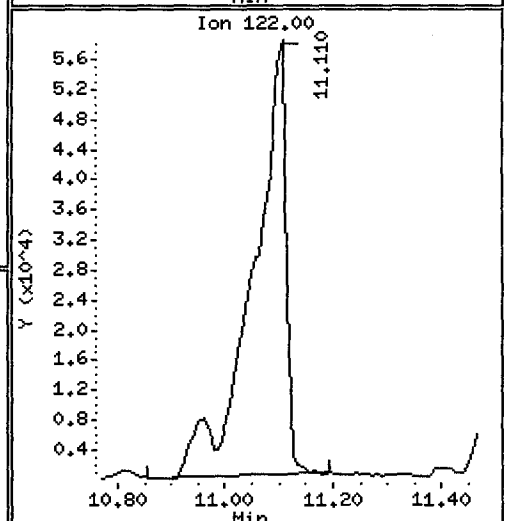
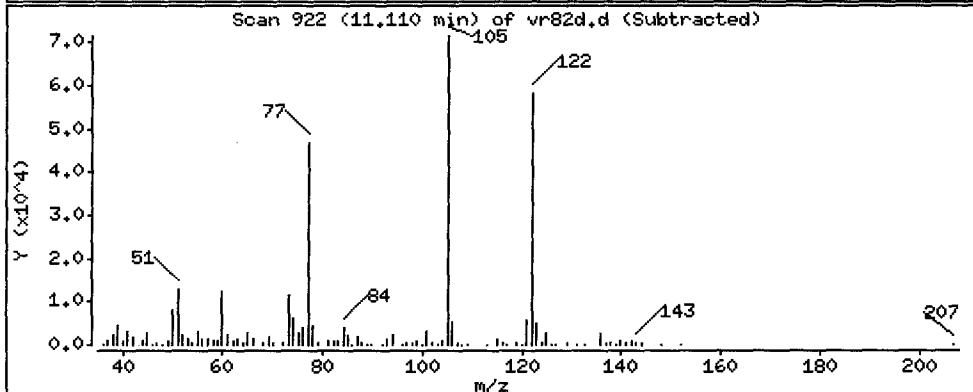
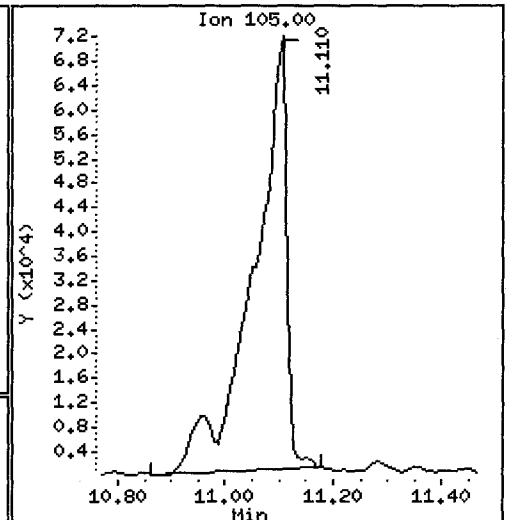
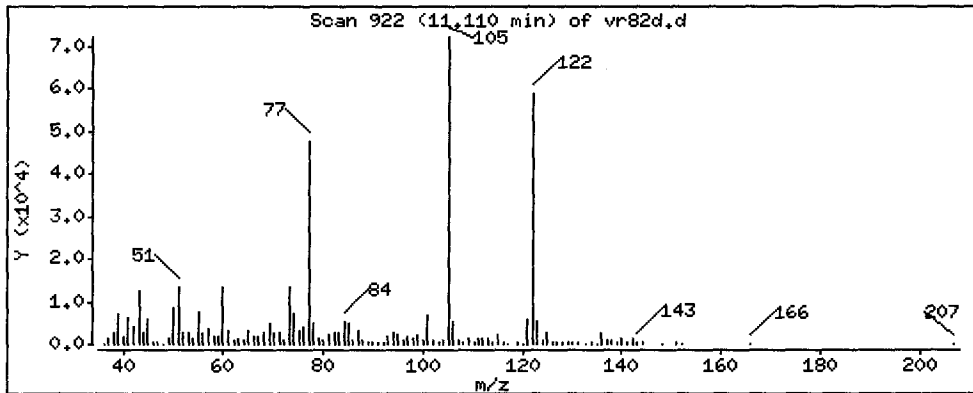
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1268 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

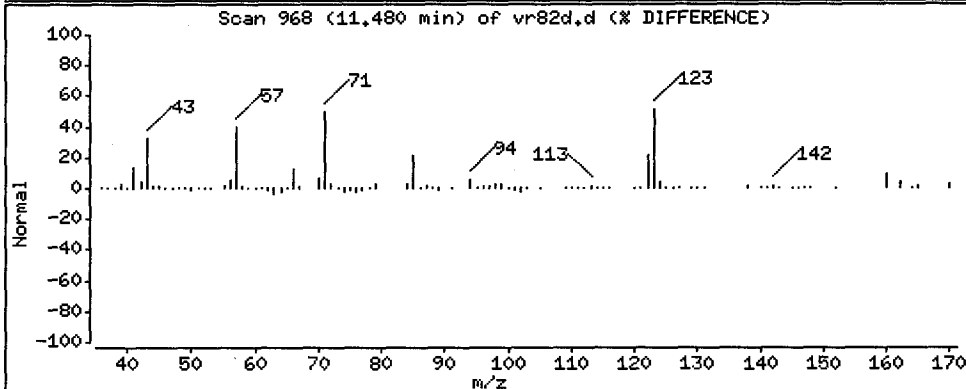
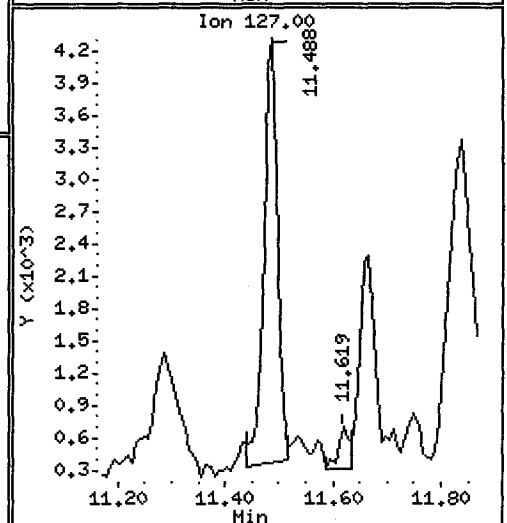
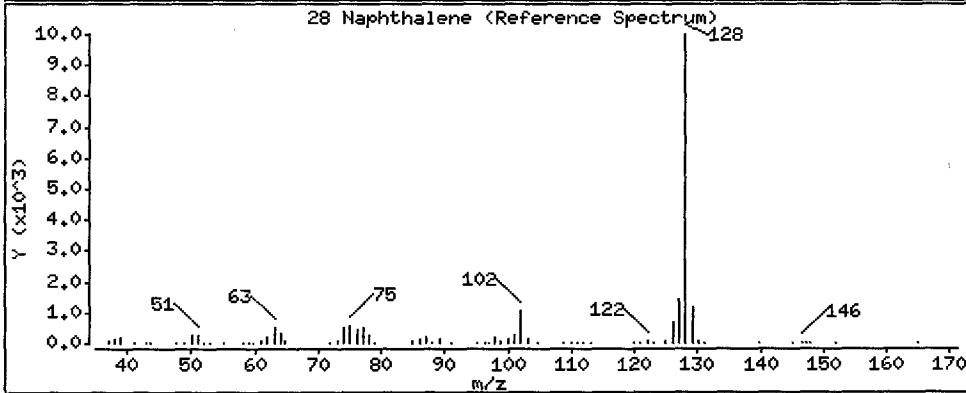
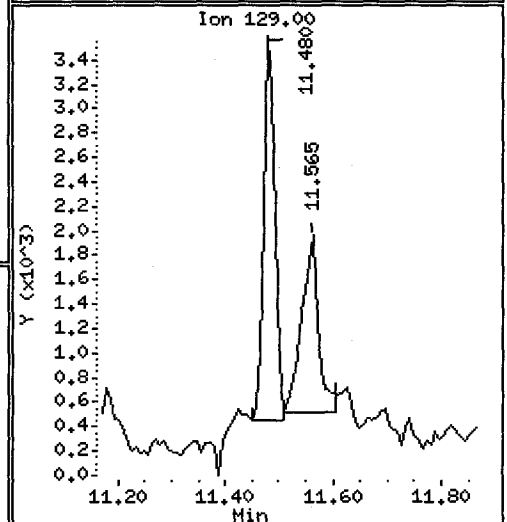
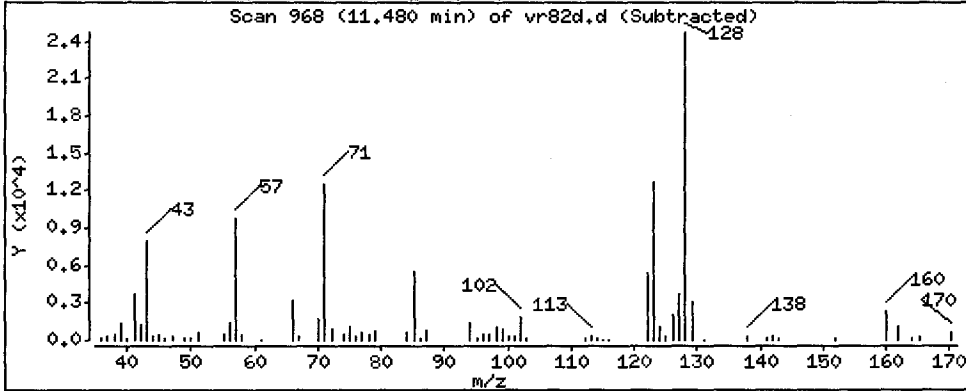
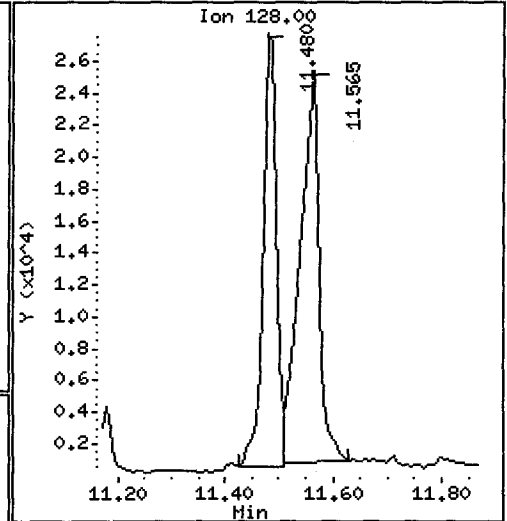
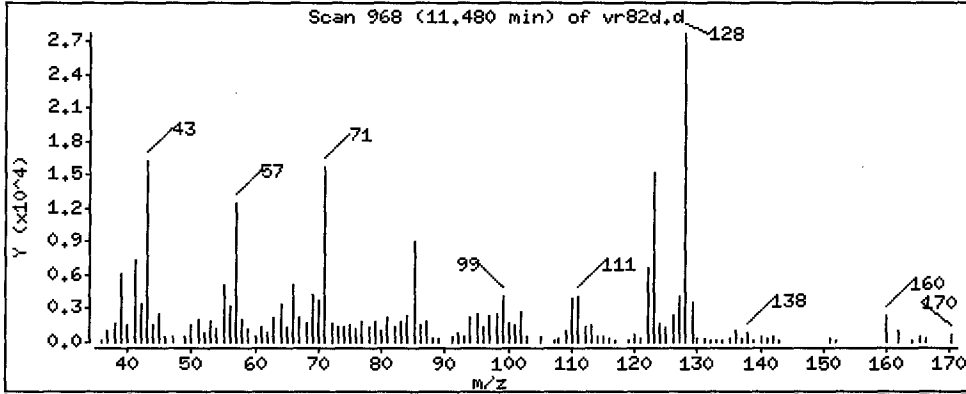
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 50.43 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

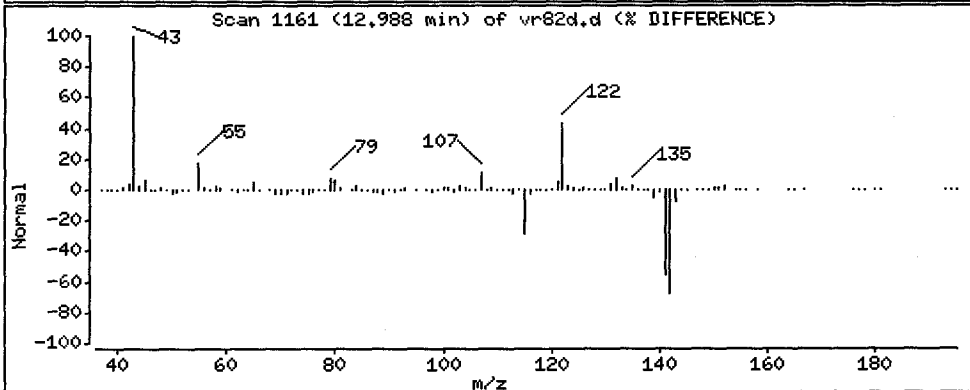
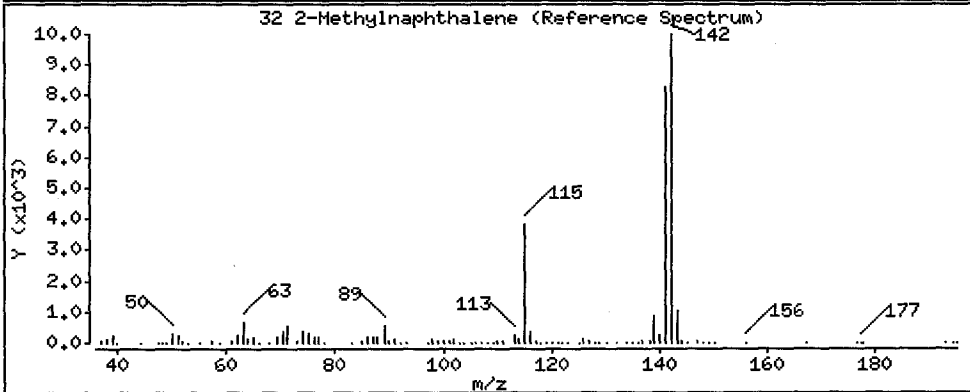
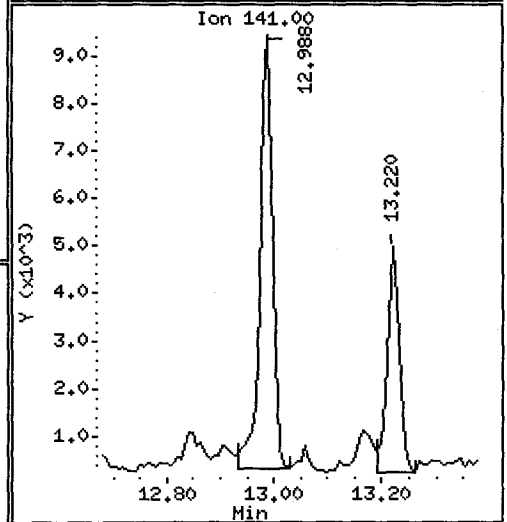
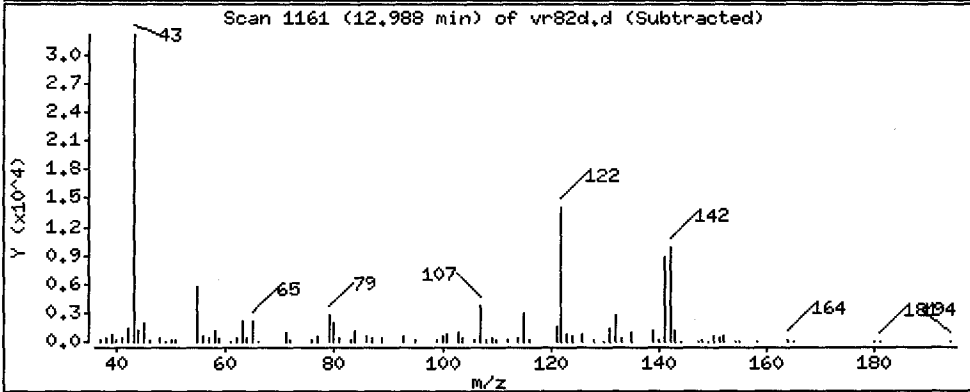
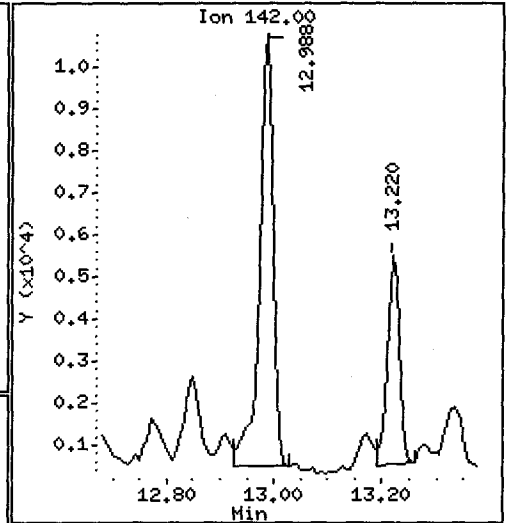
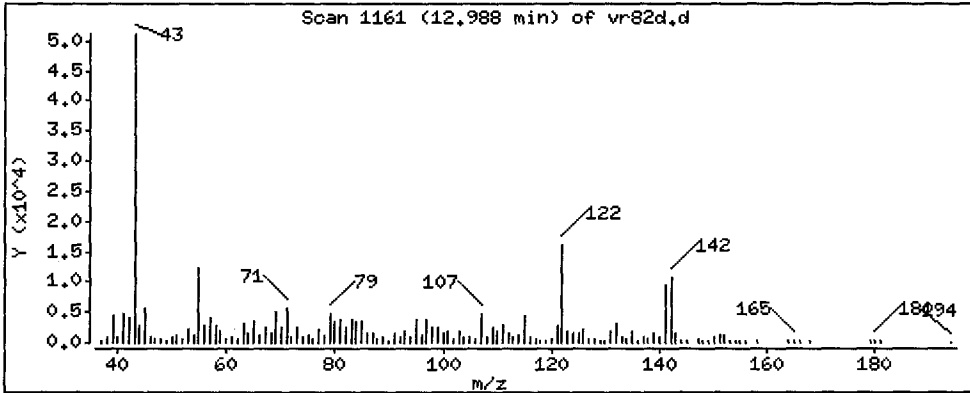
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 25.37 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

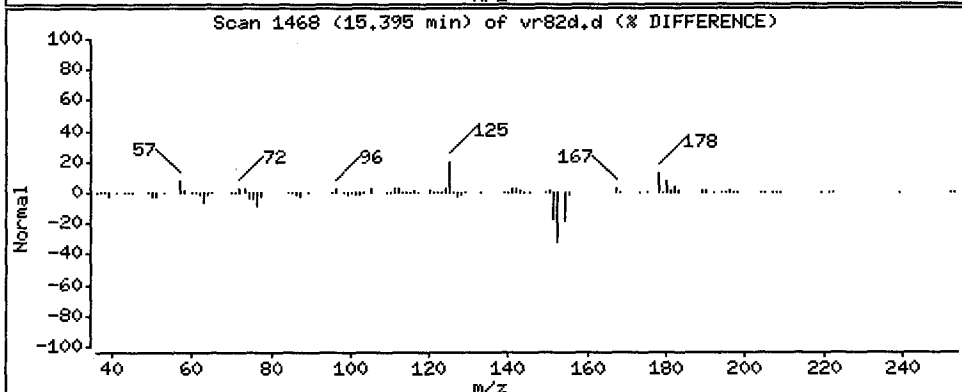
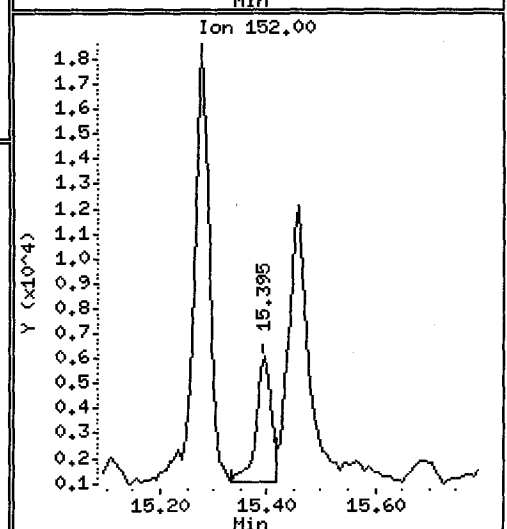
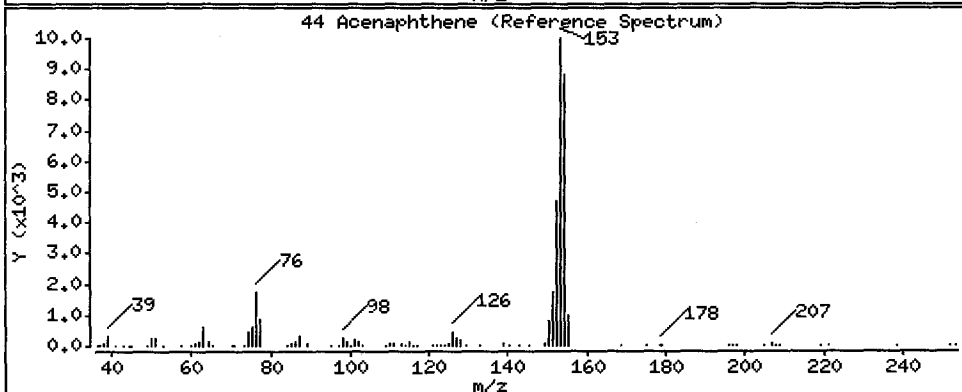
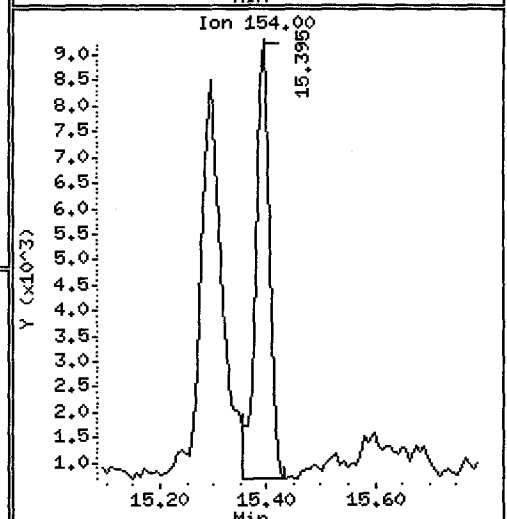
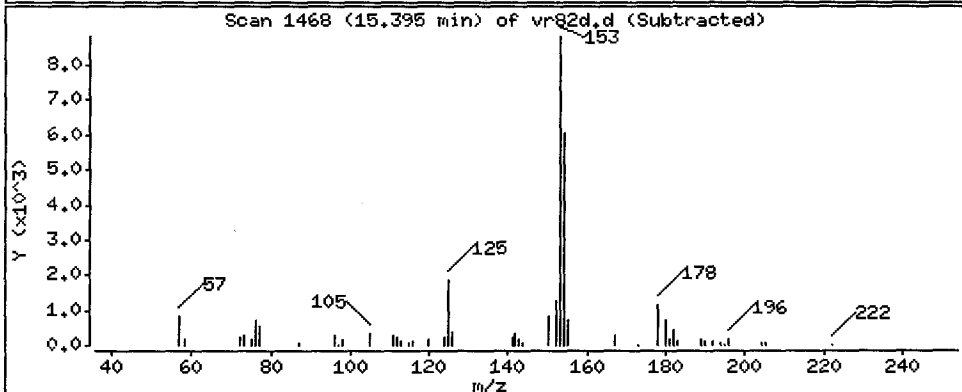
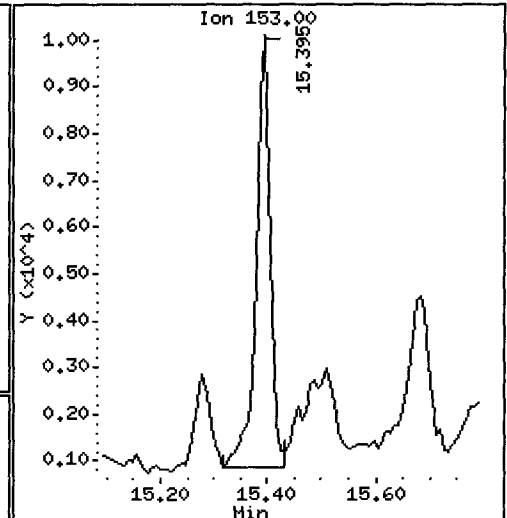
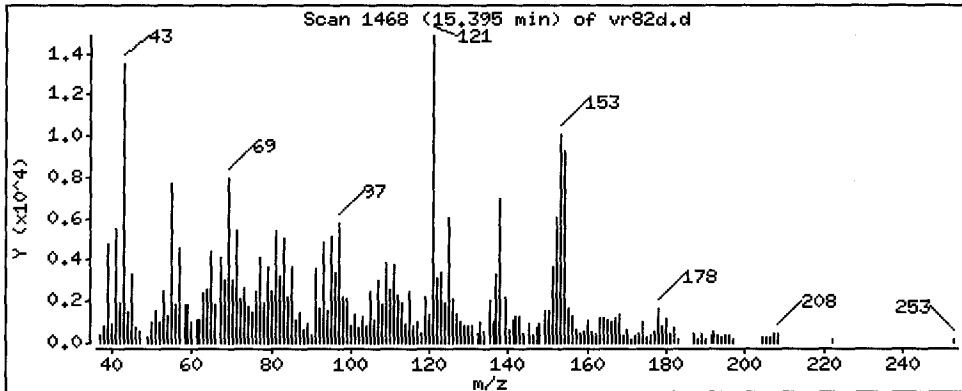
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 25.35 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SC-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

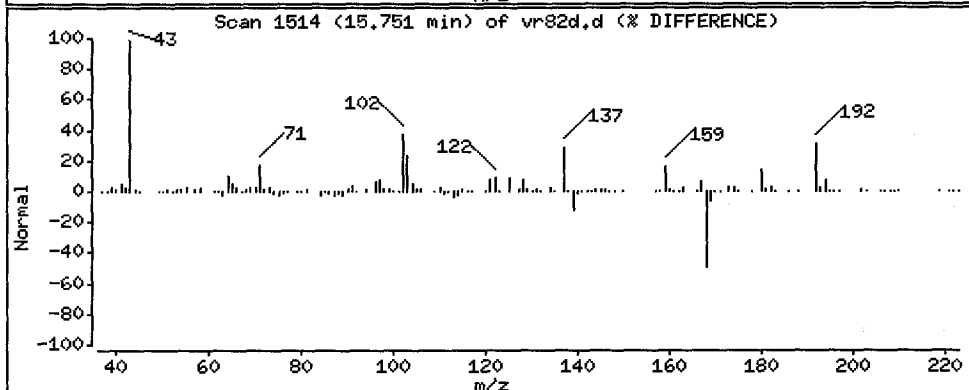
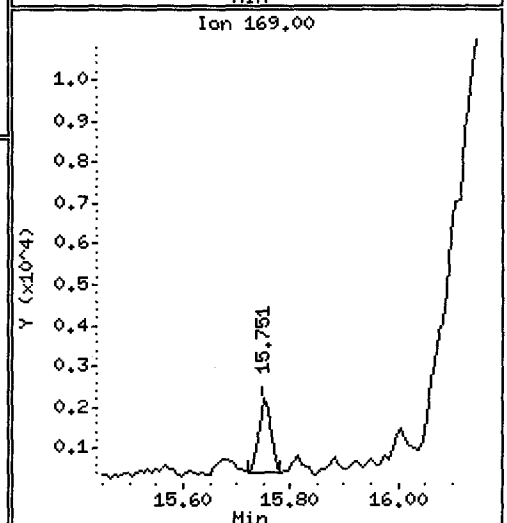
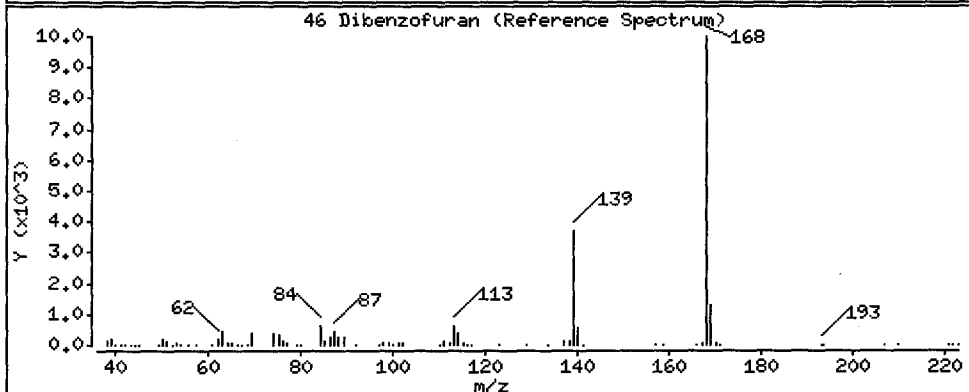
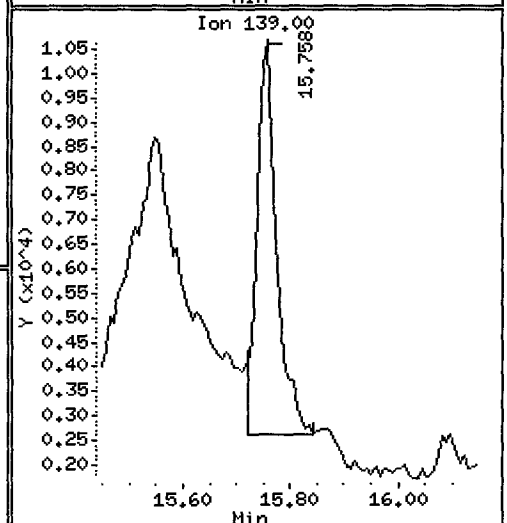
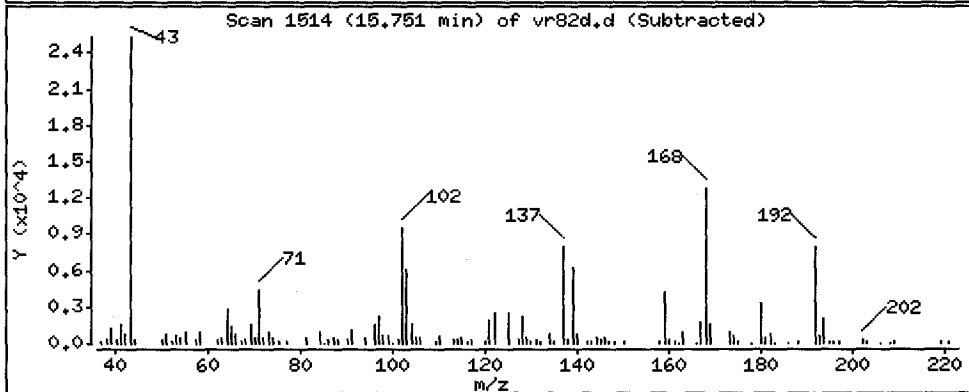
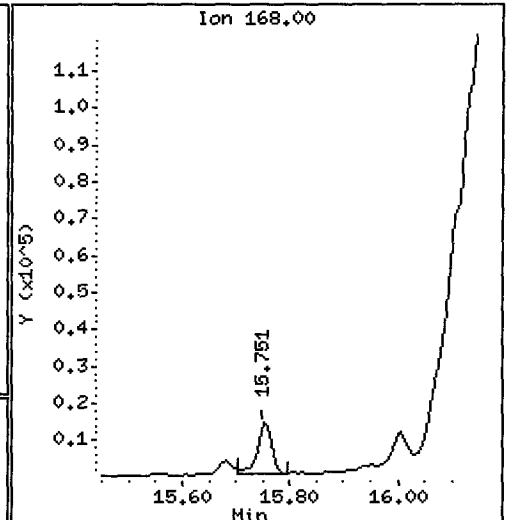
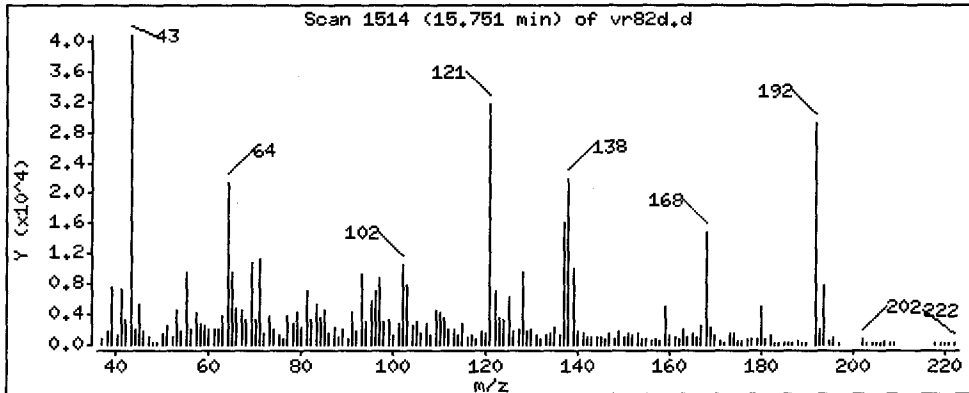
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 27.27 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

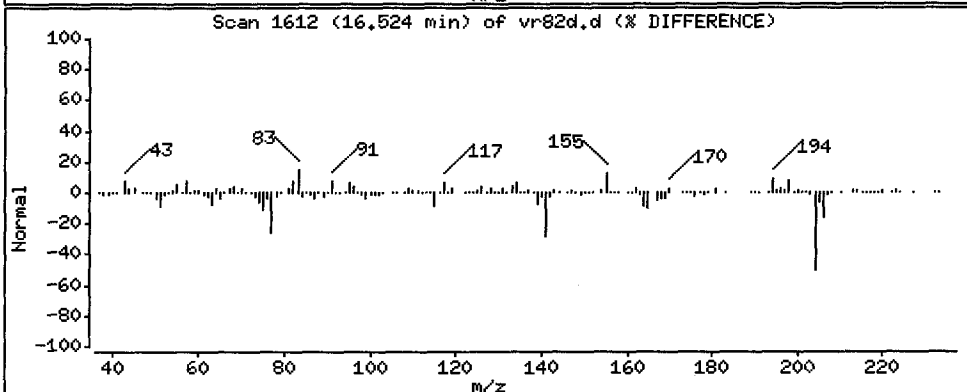
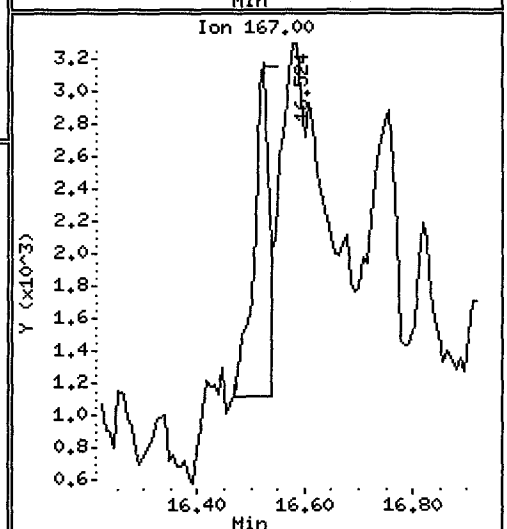
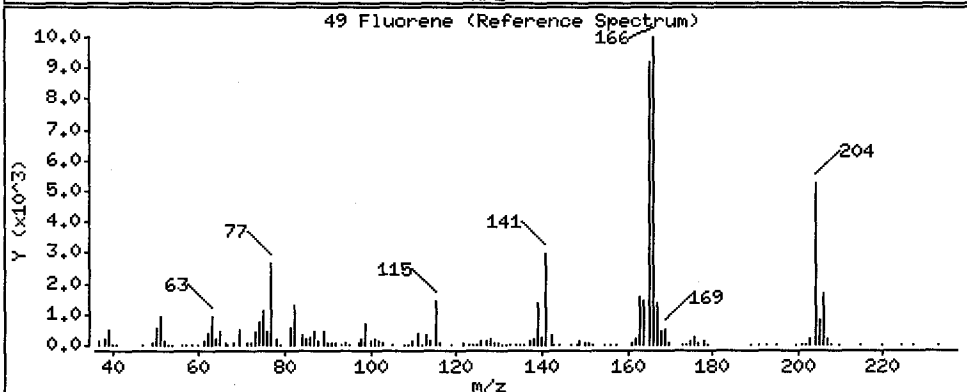
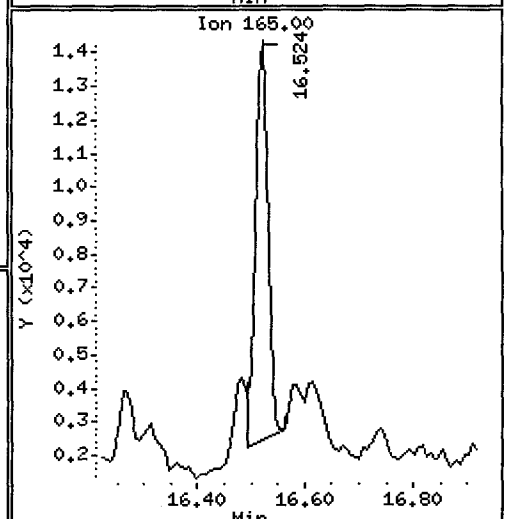
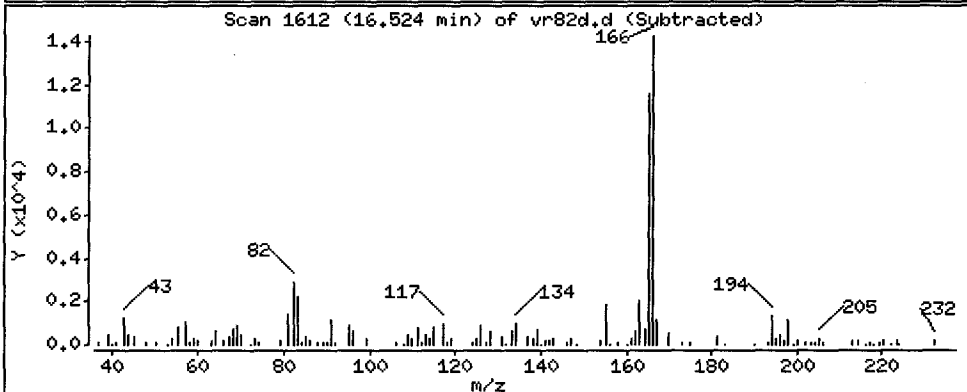
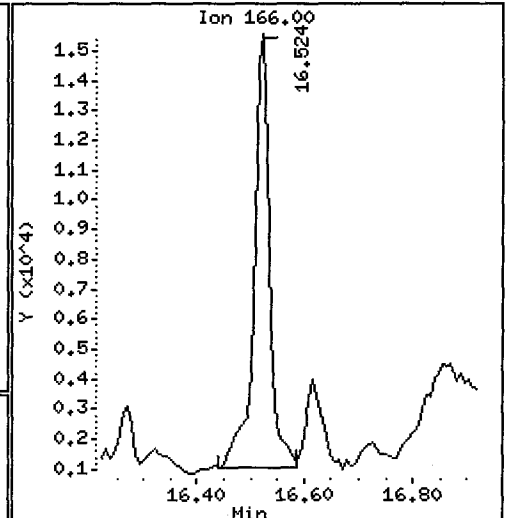
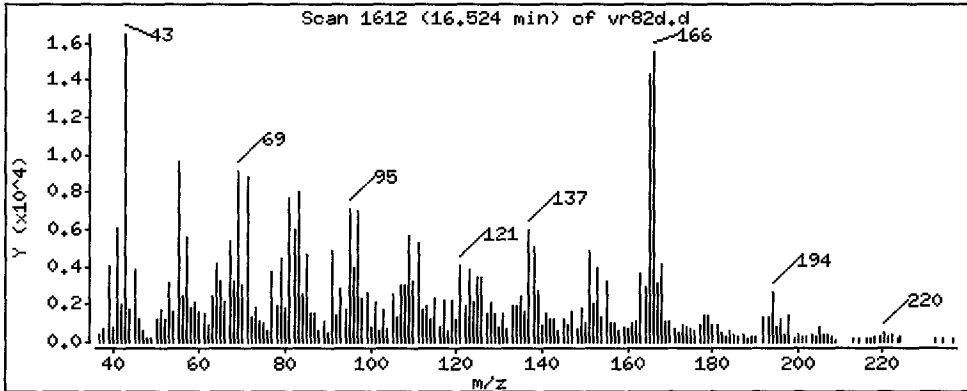
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 36.97 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

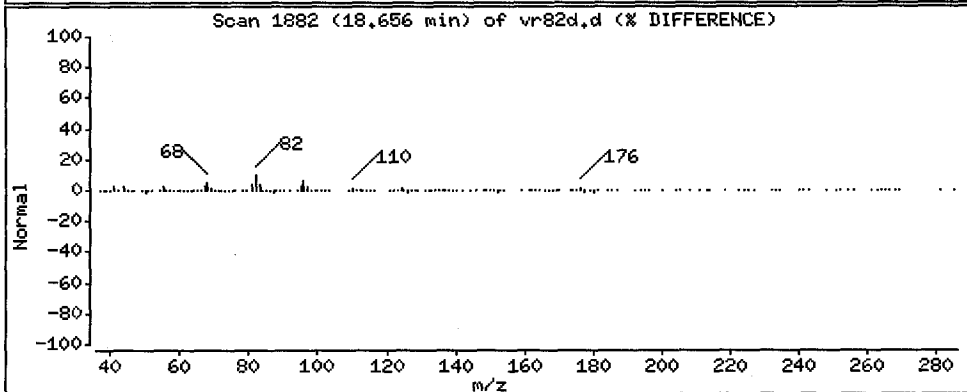
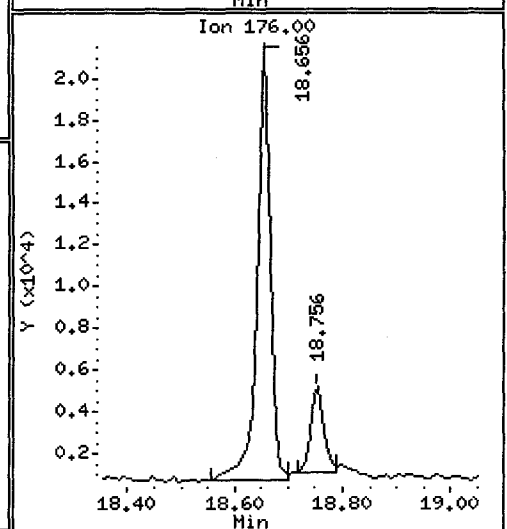
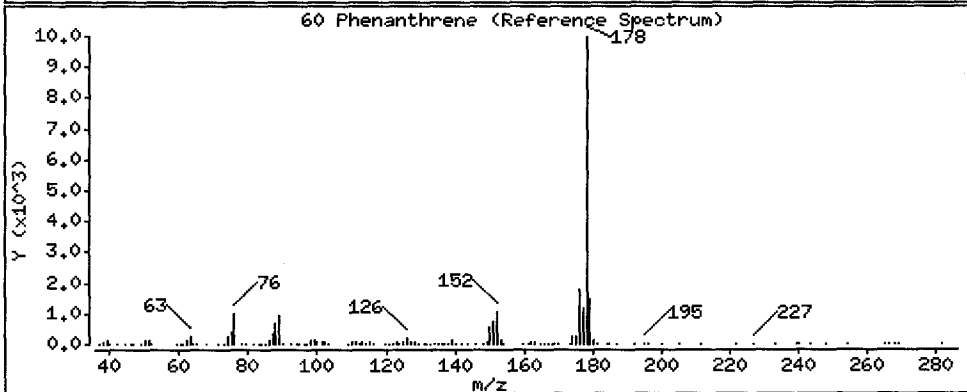
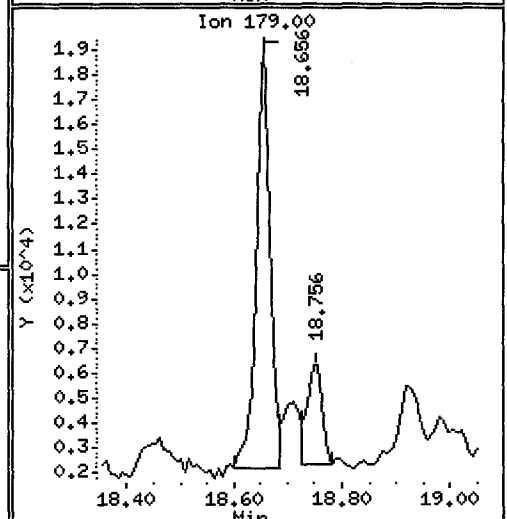
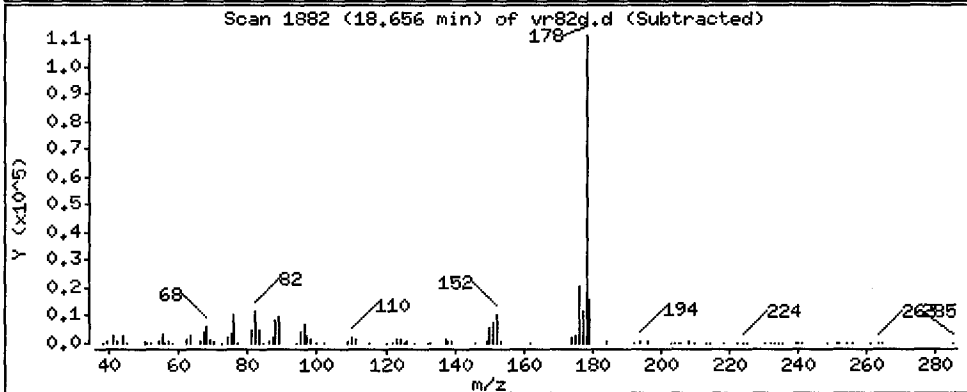
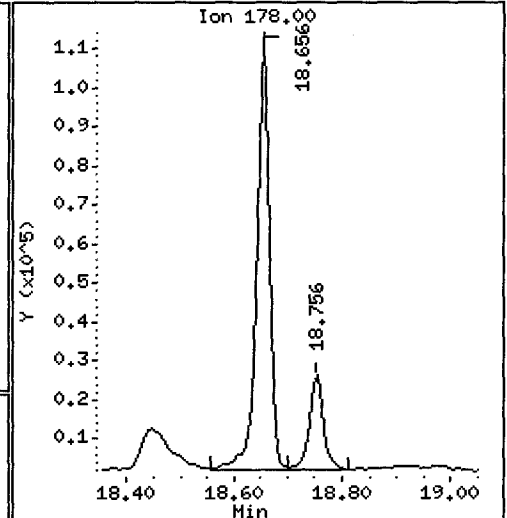
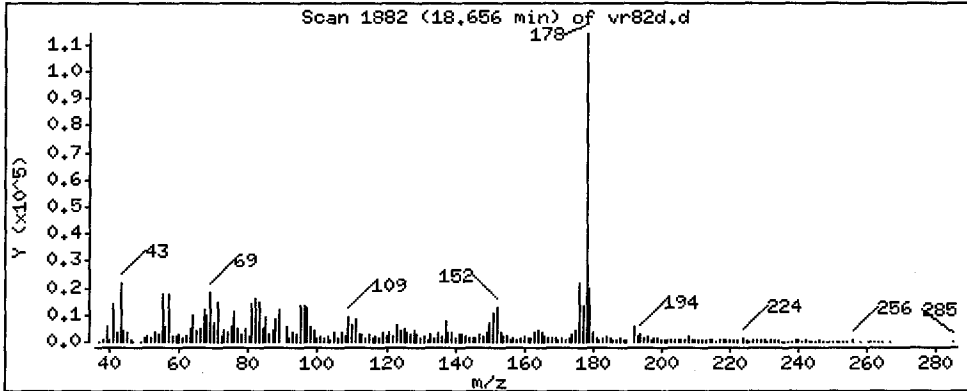
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 181.3 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

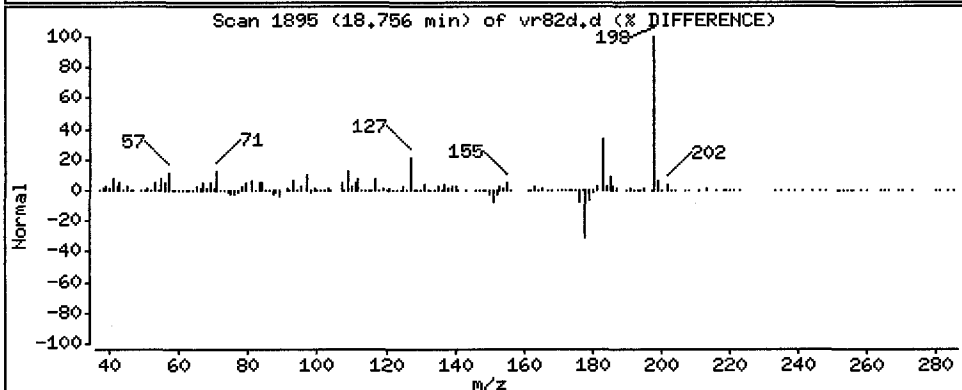
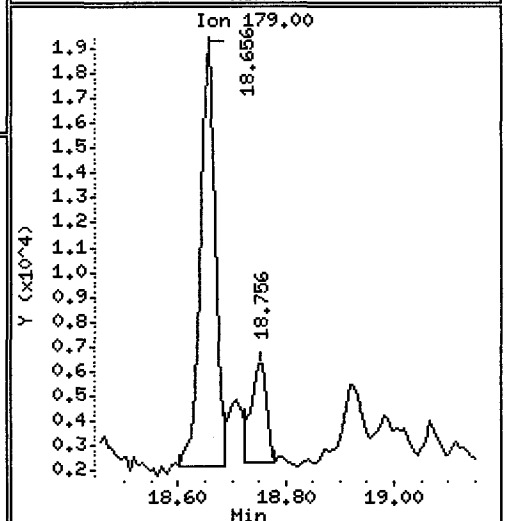
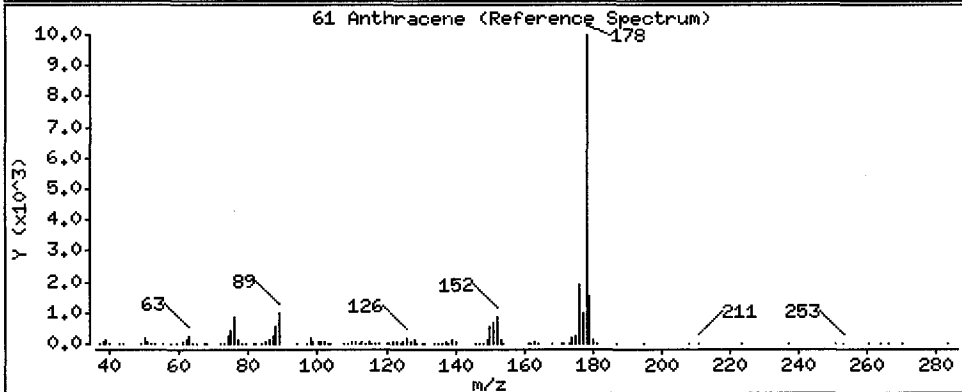
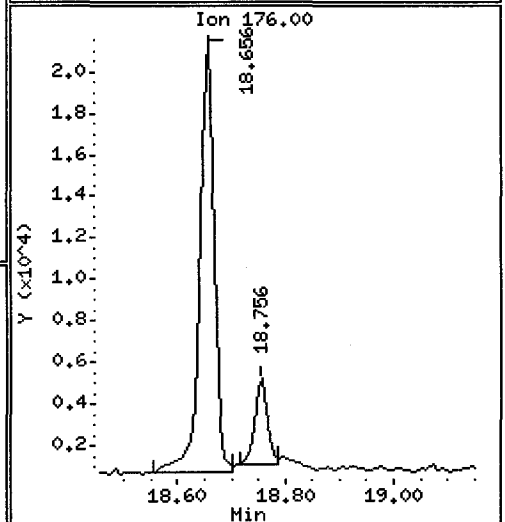
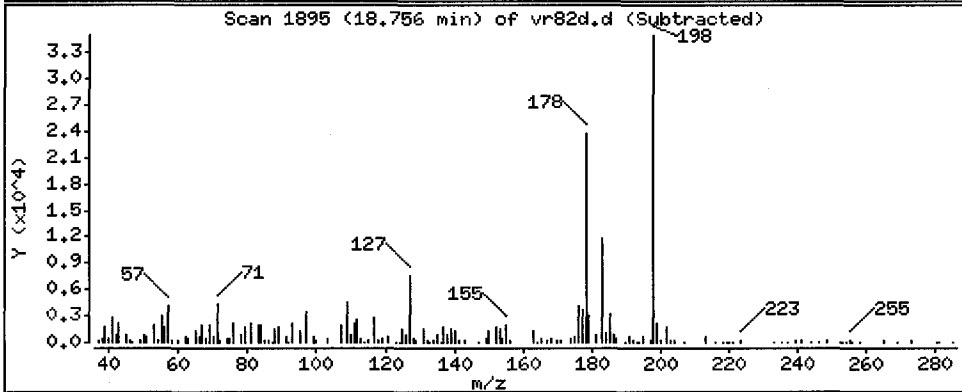
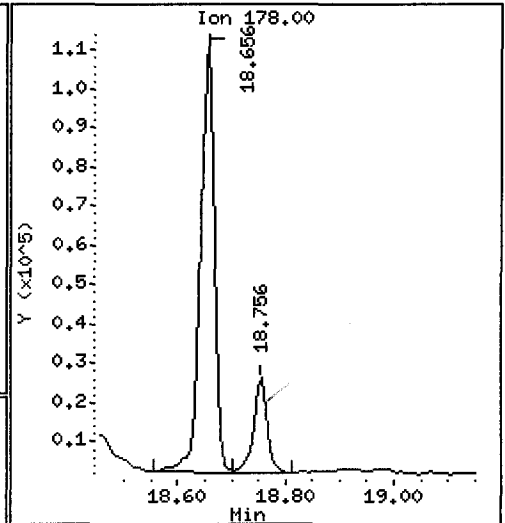
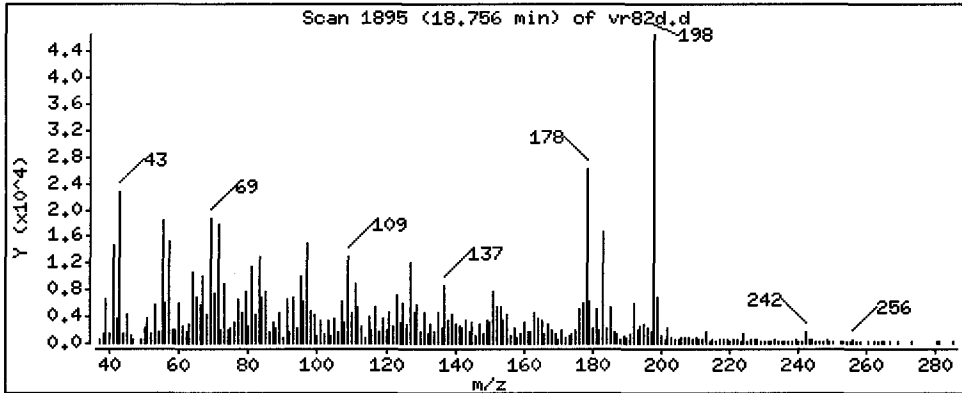
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 39.54 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SC-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

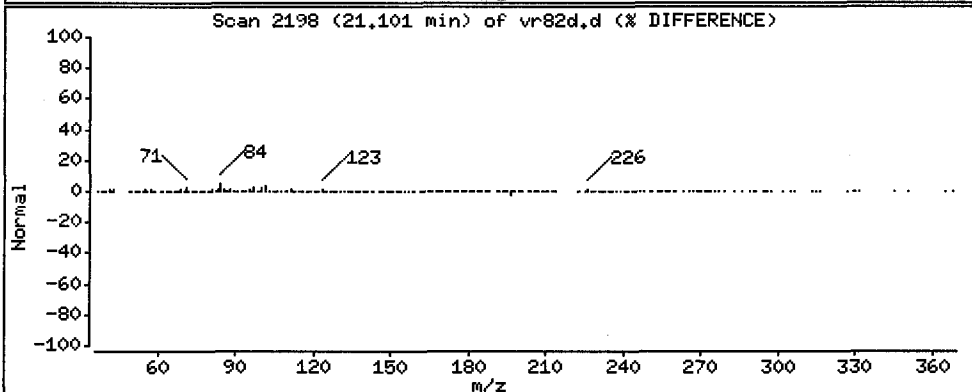
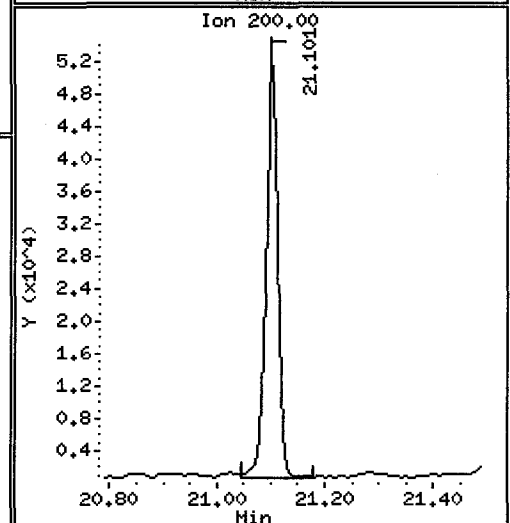
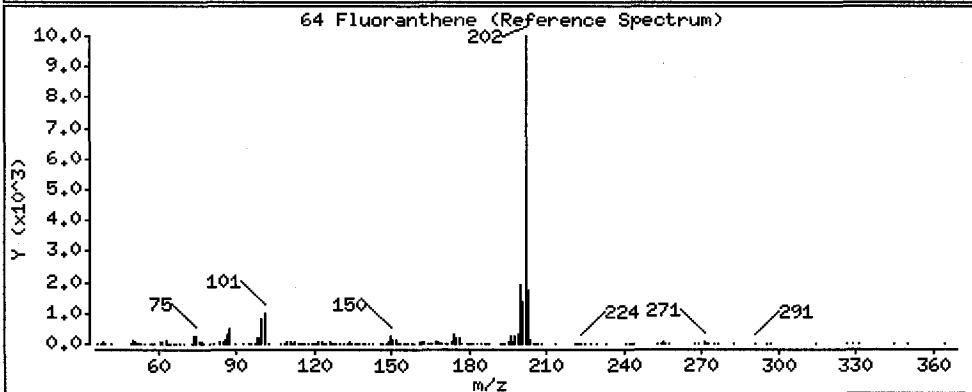
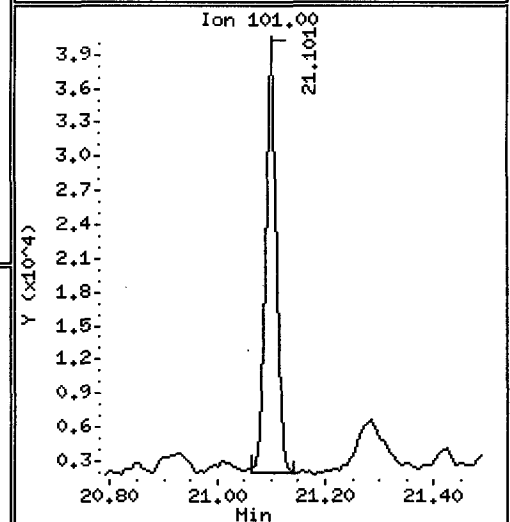
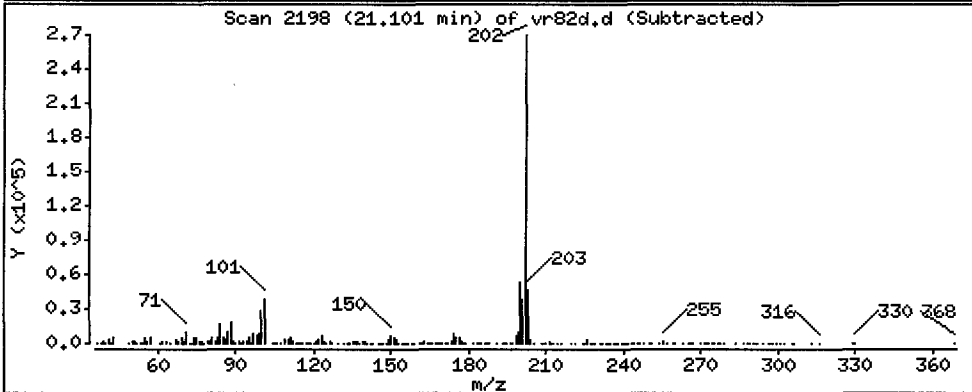
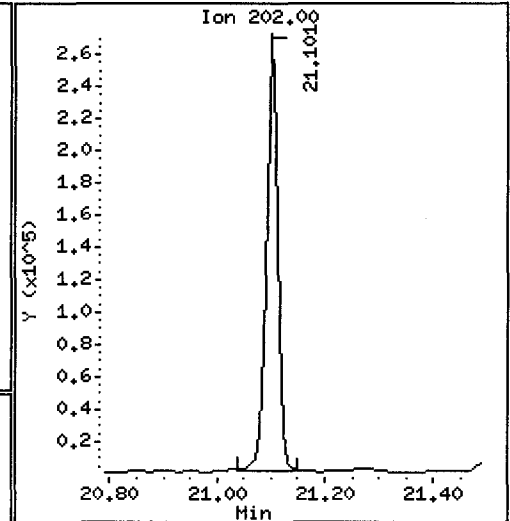
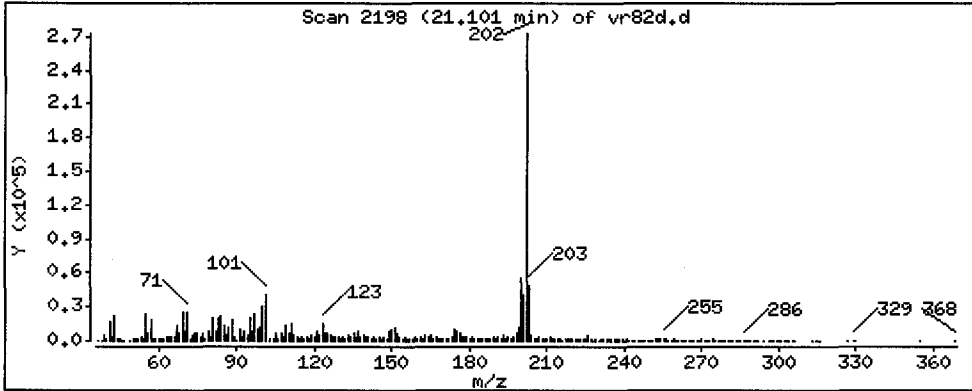
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 307.7 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

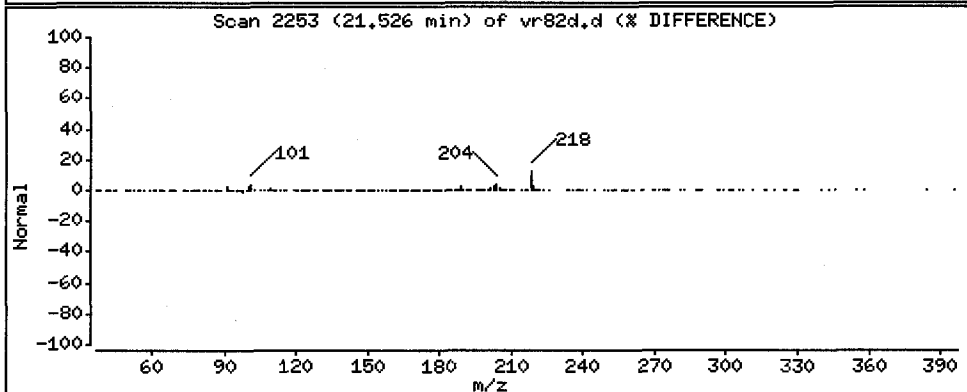
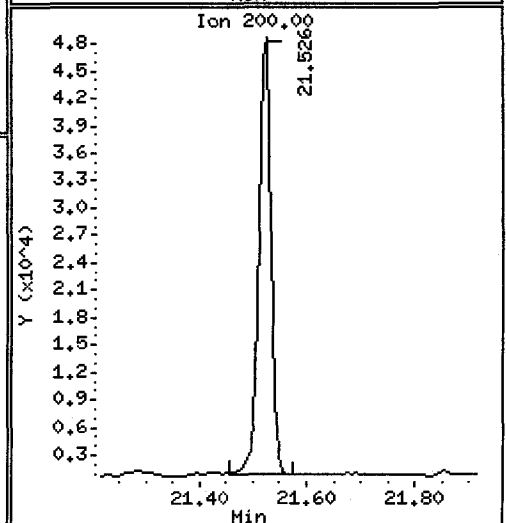
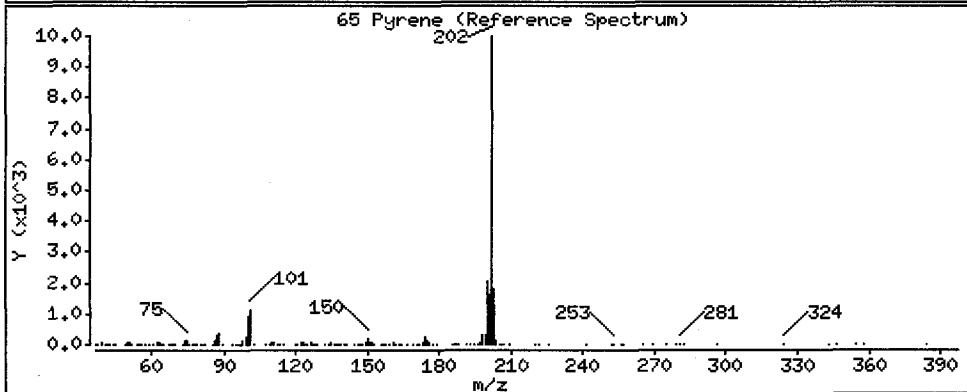
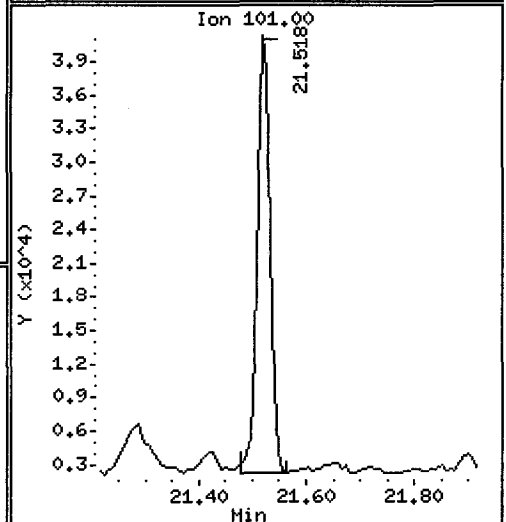
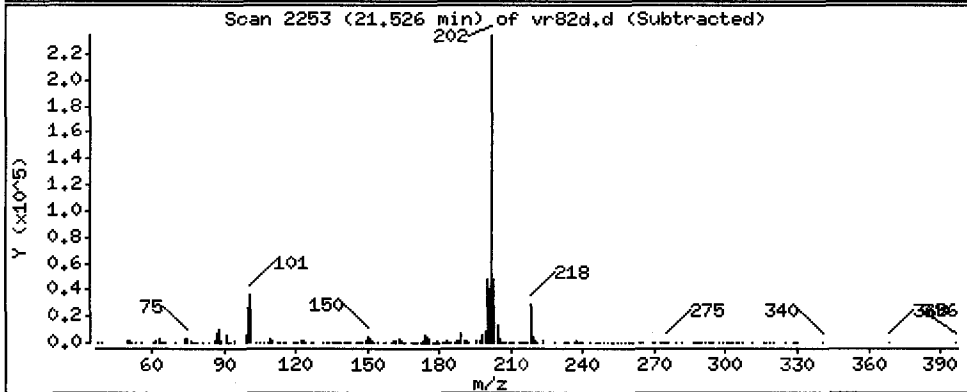
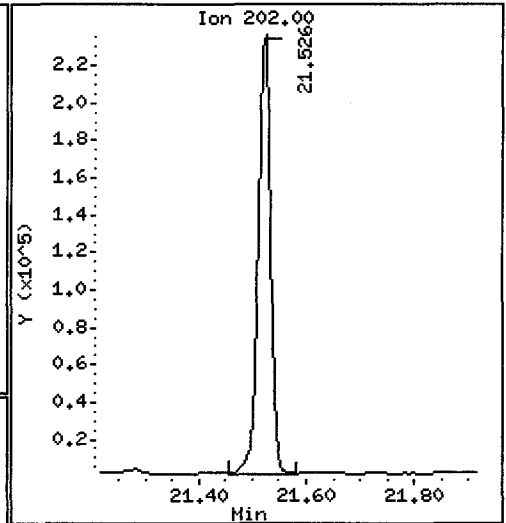
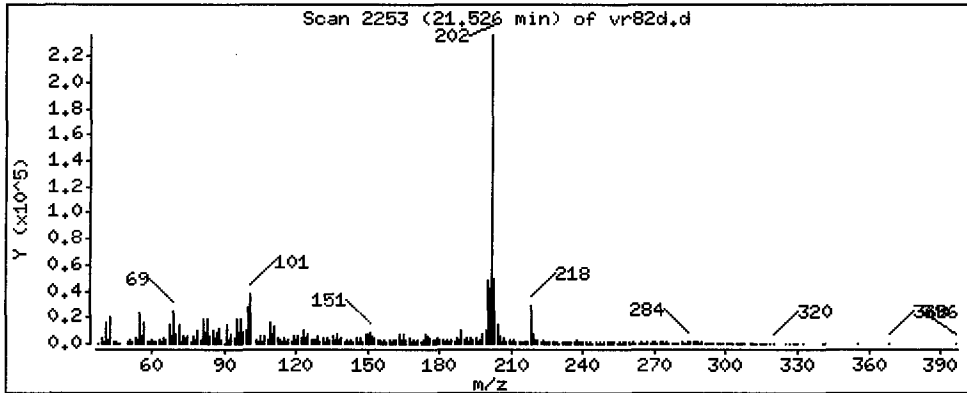
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 303.4 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

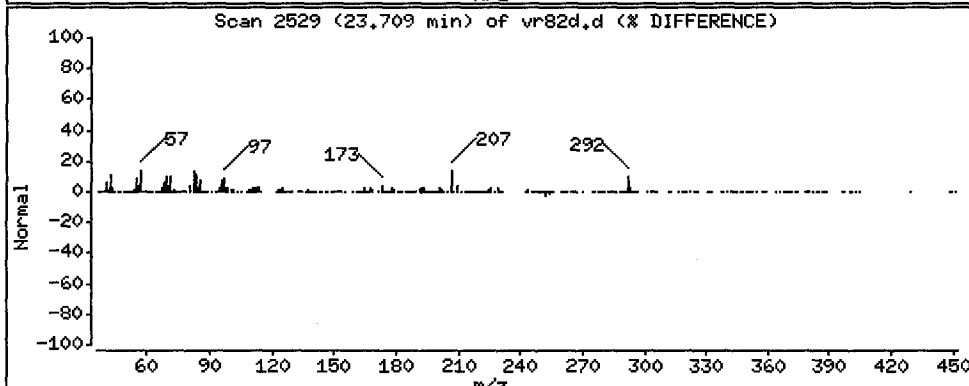
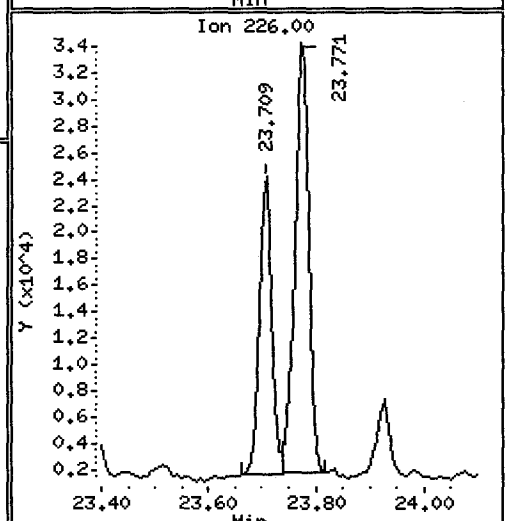
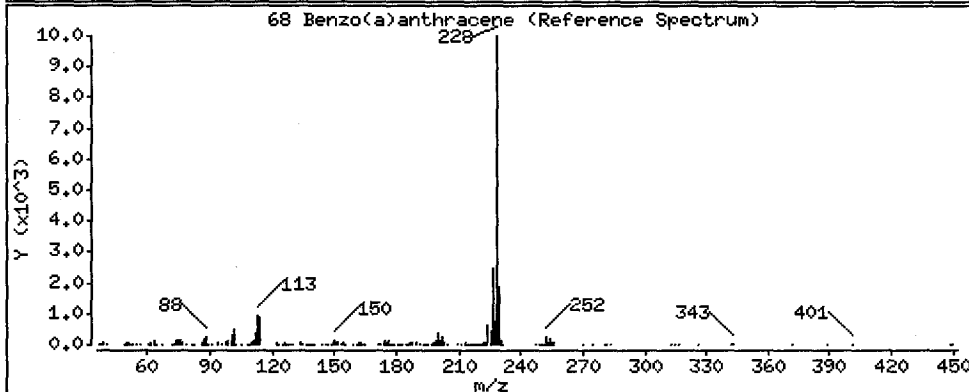
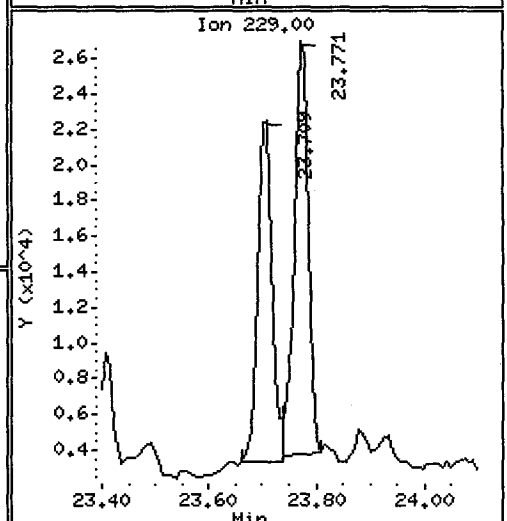
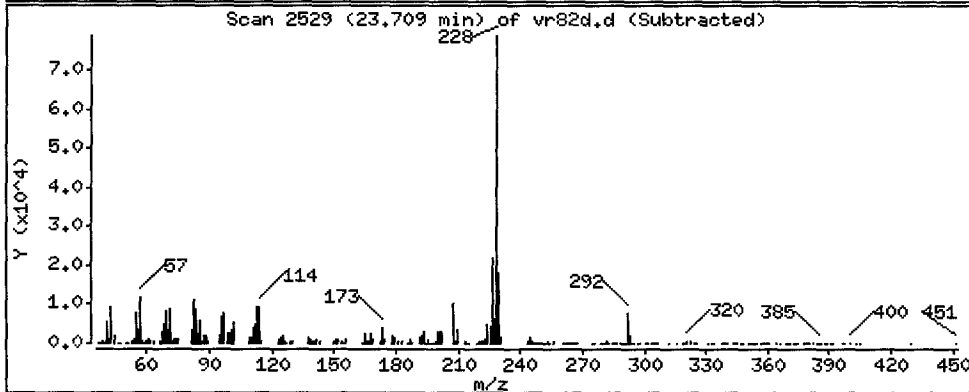
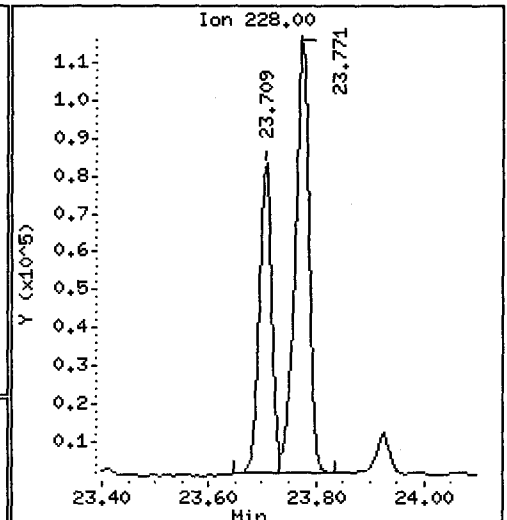
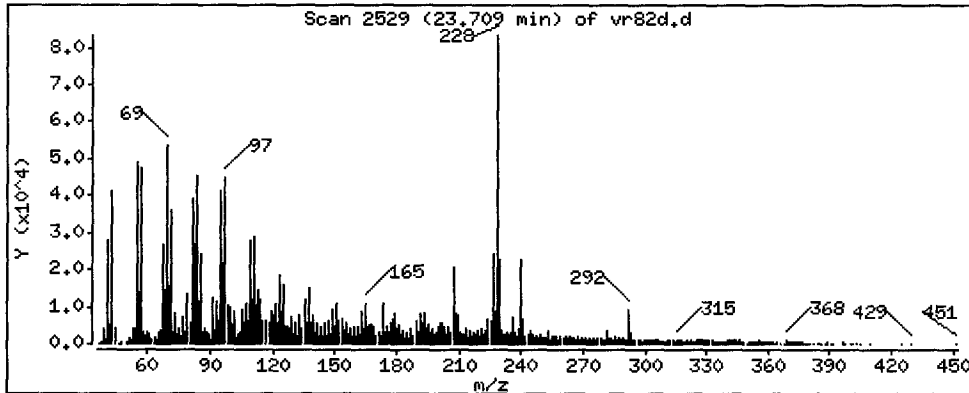
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 109.9 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

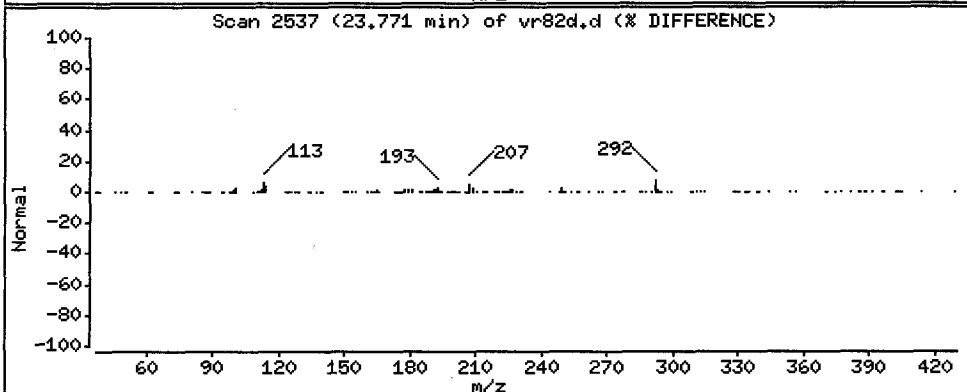
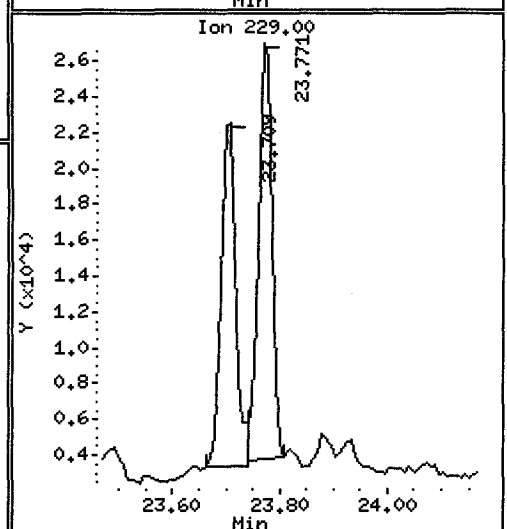
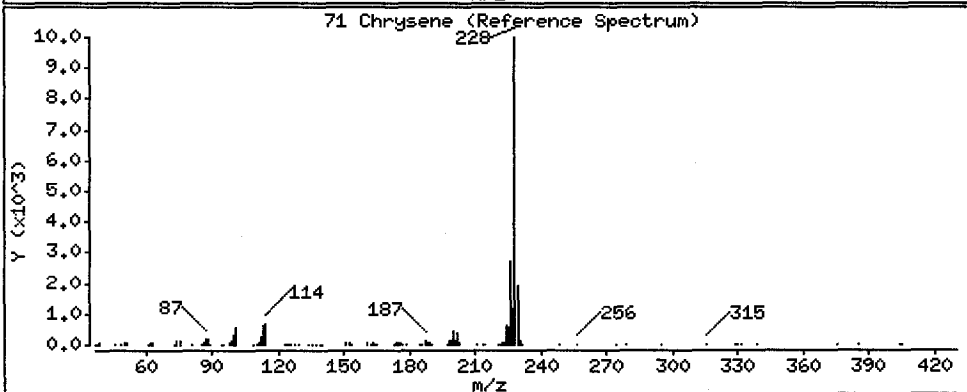
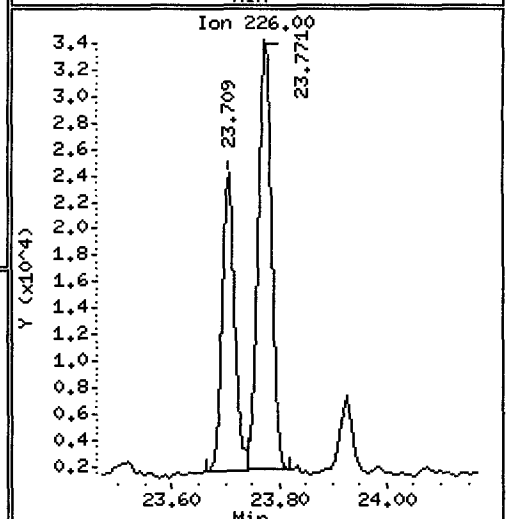
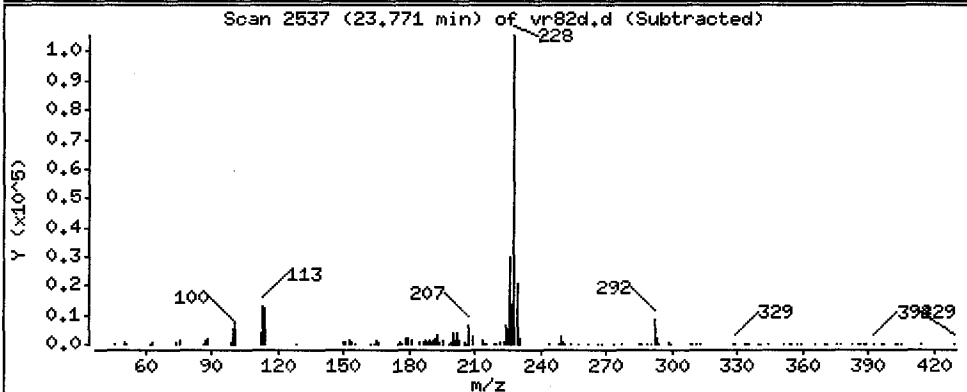
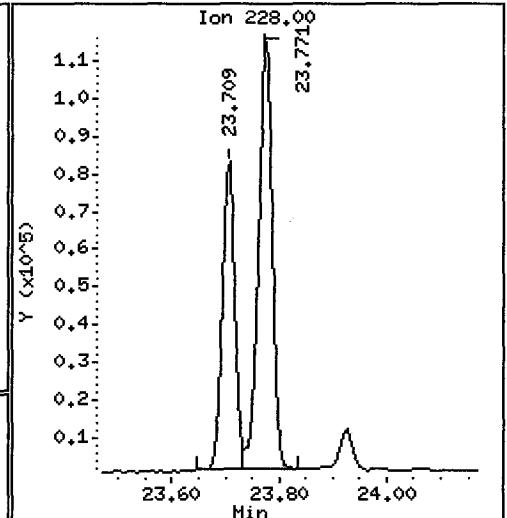
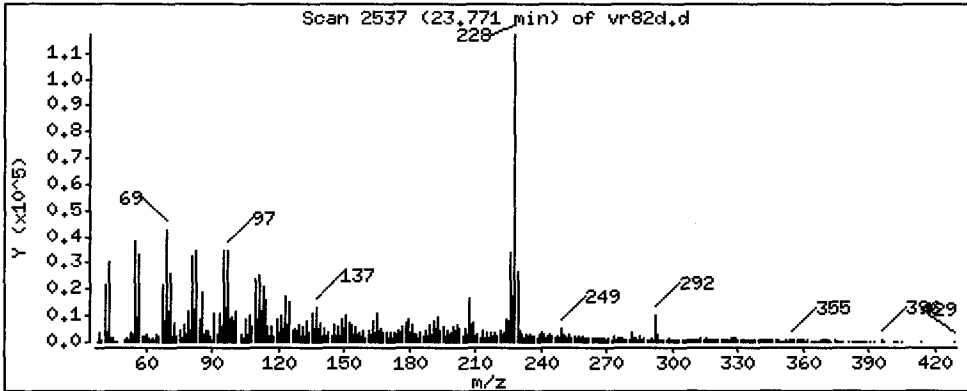
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 188.9 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

Operator: VTS/YZ

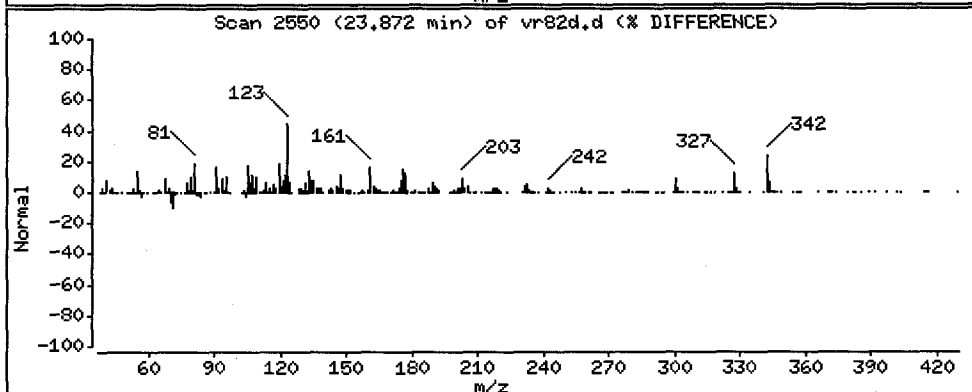
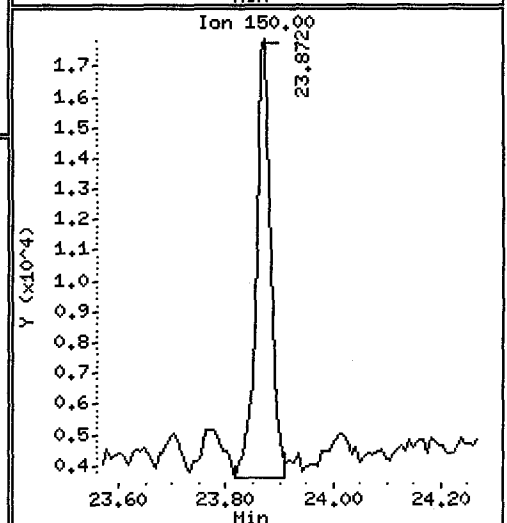
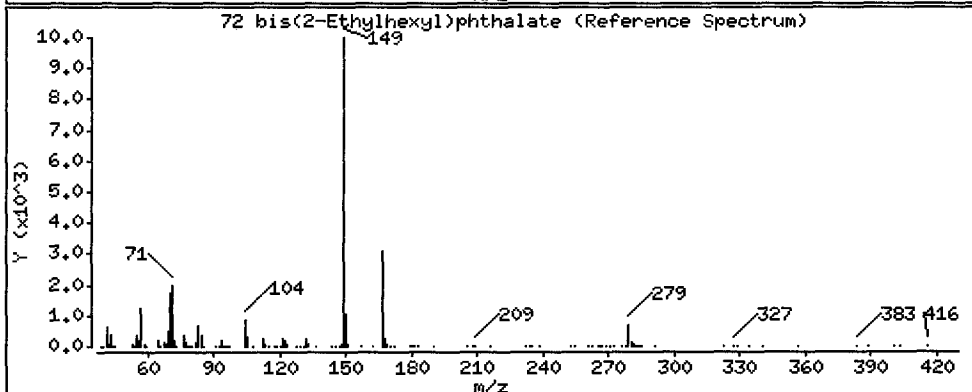
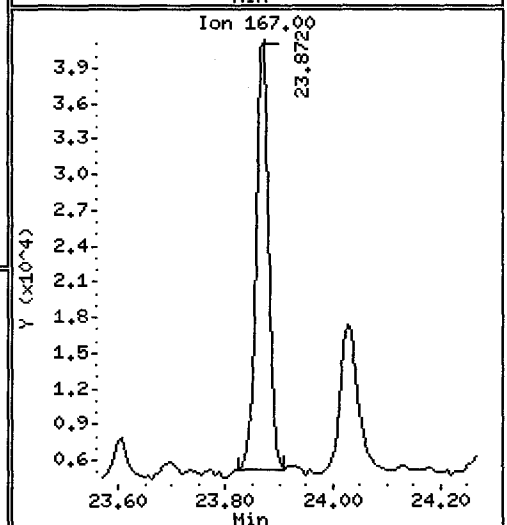
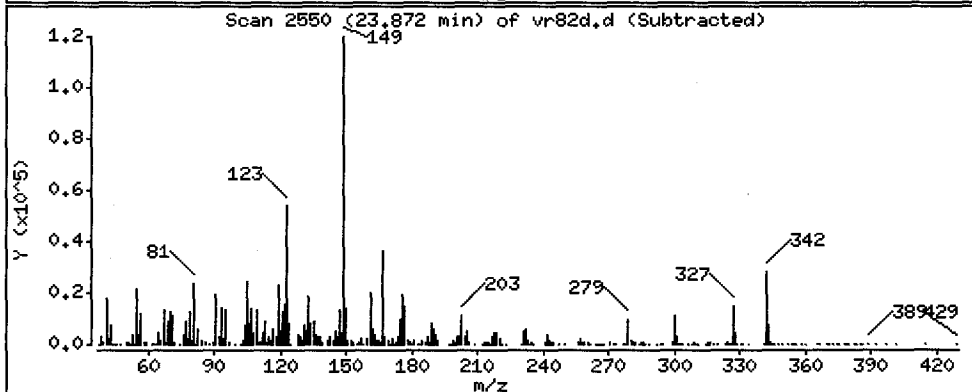
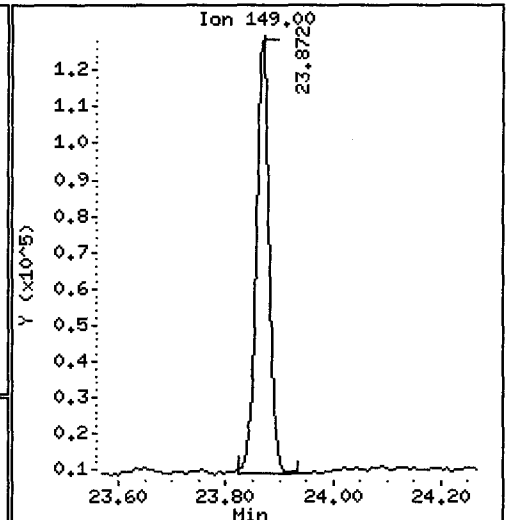
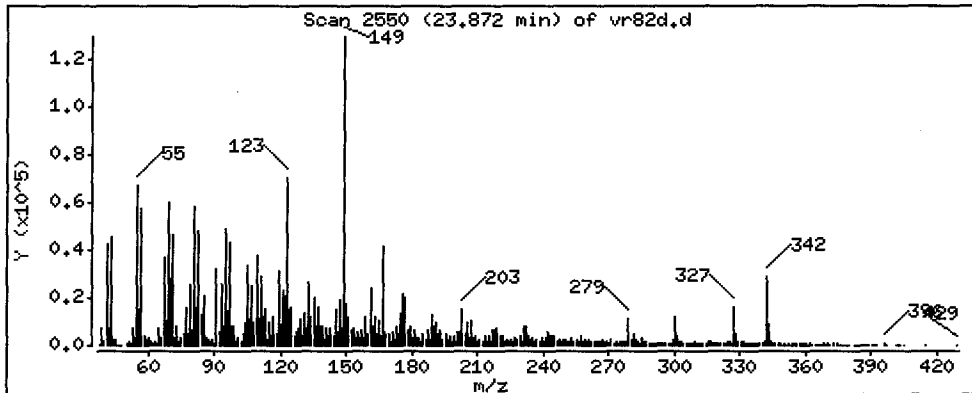
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 259.0 ug/kg

6



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

Operator: VTS/YZ

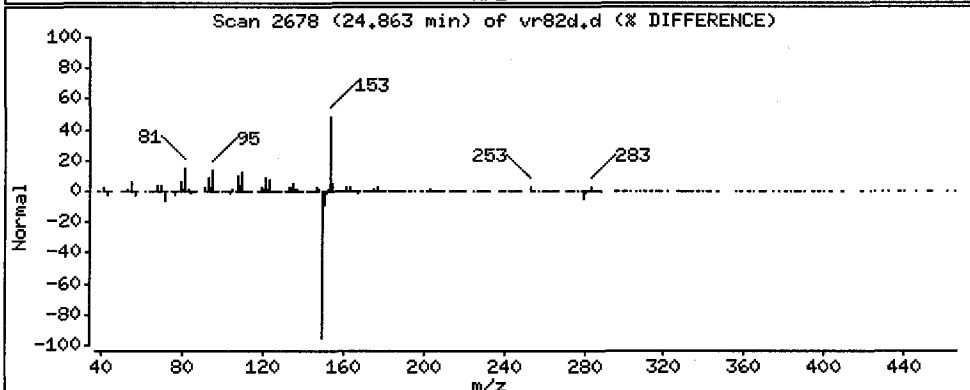
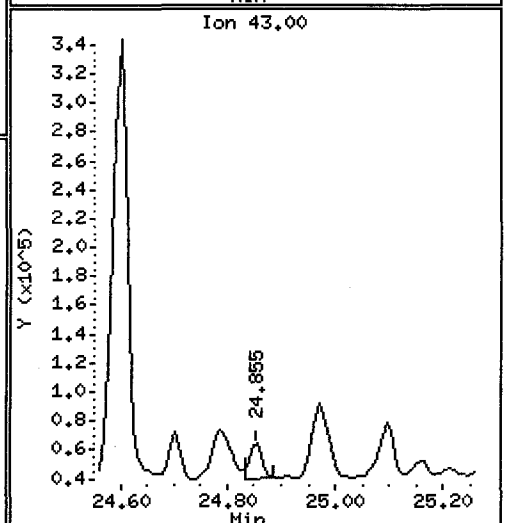
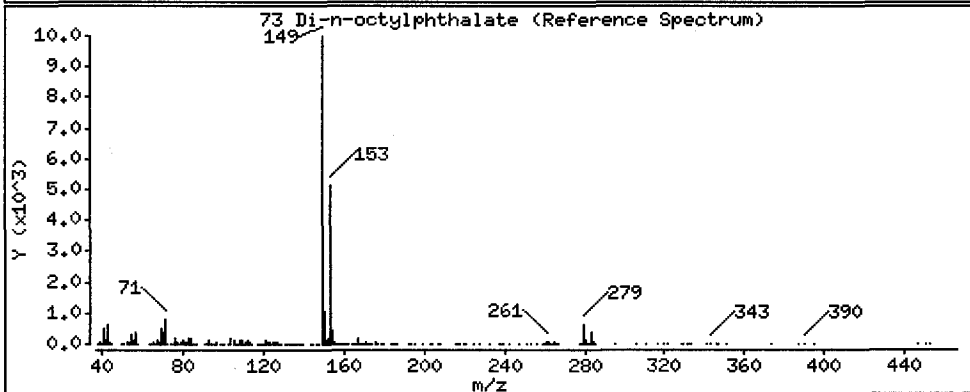
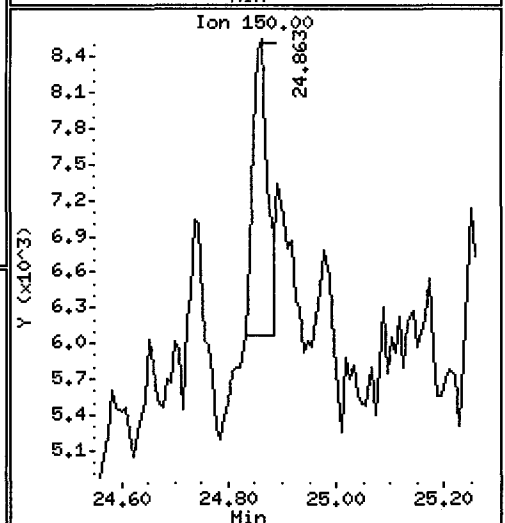
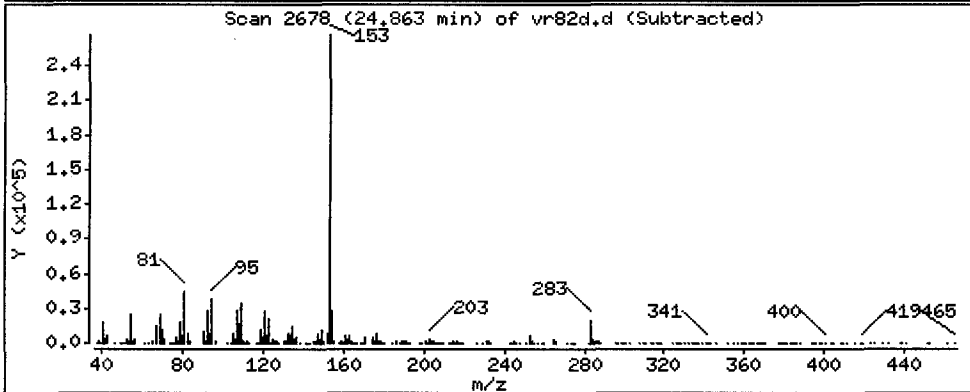
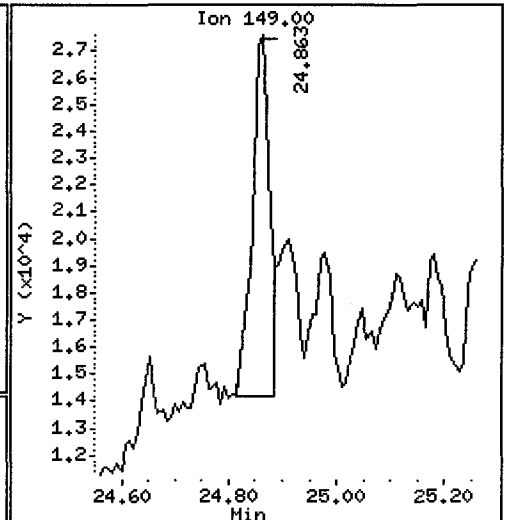
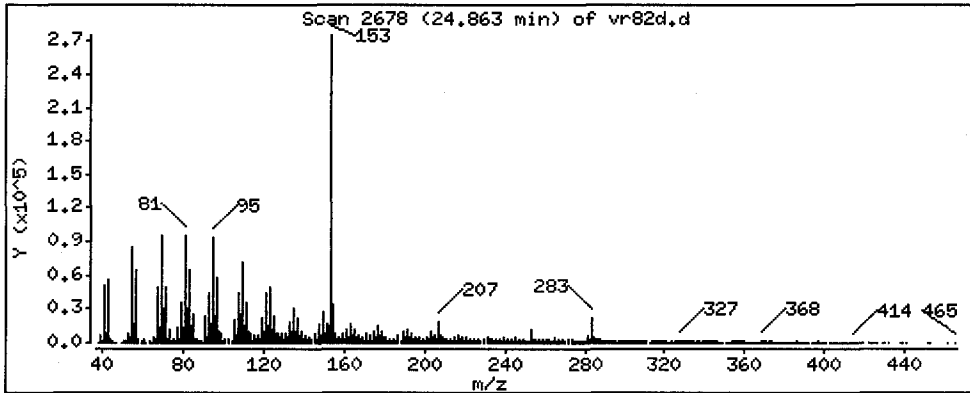
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 22.94 ug/kg

3



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

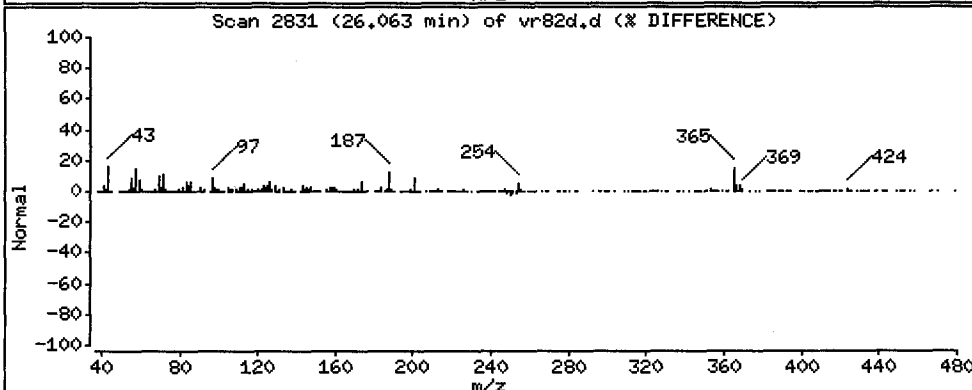
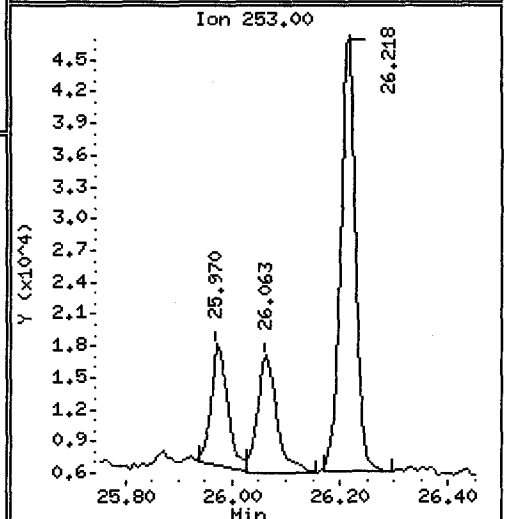
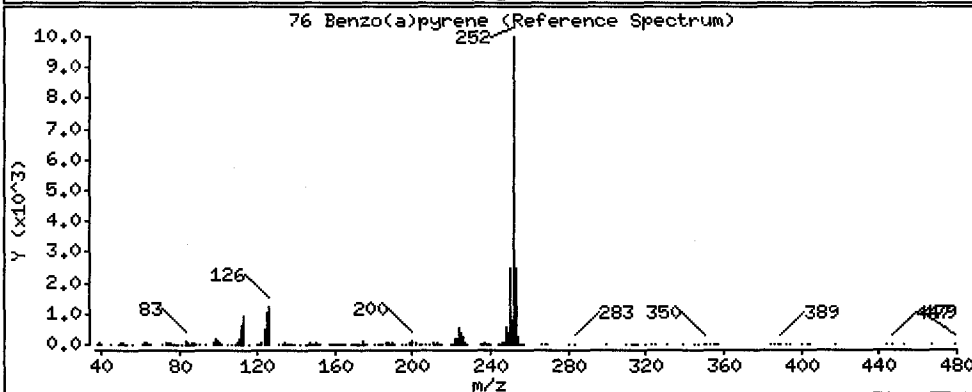
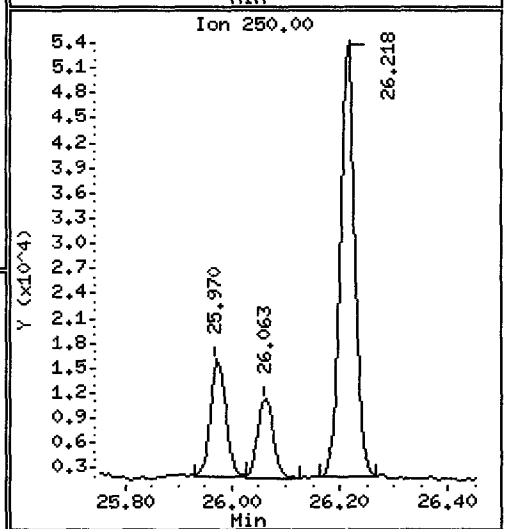
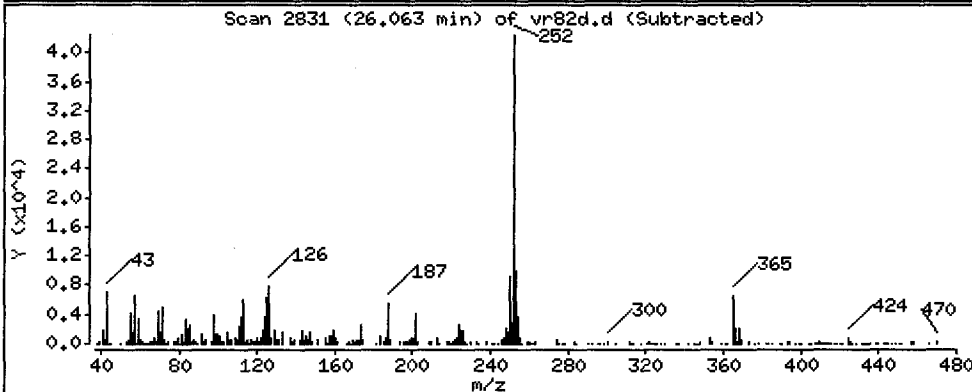
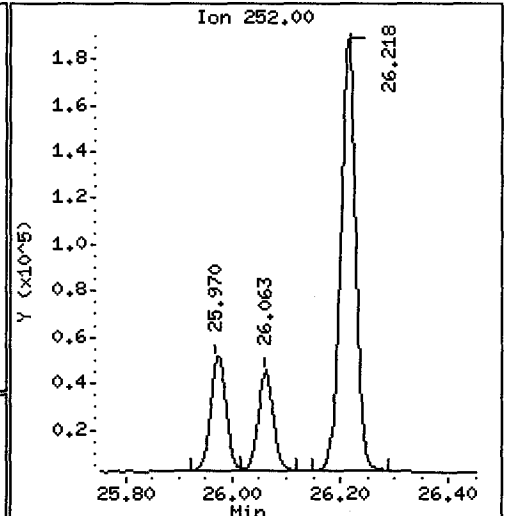
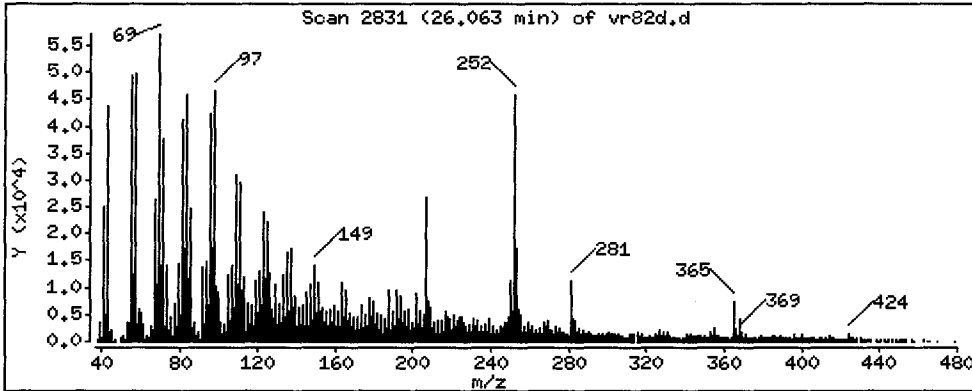
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 75.30 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

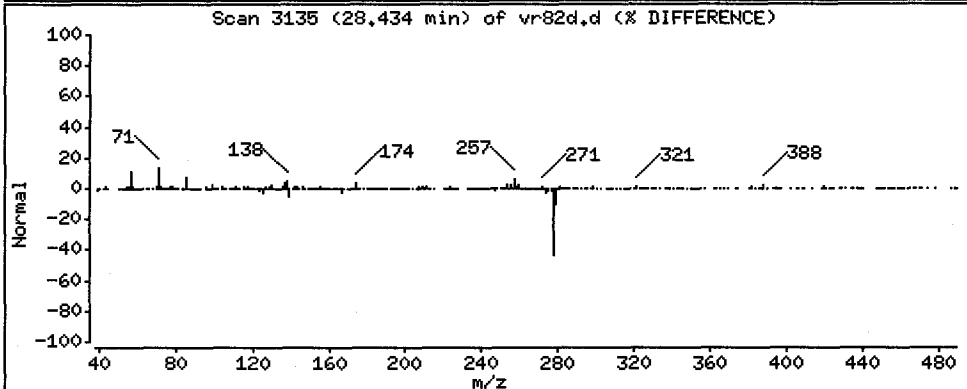
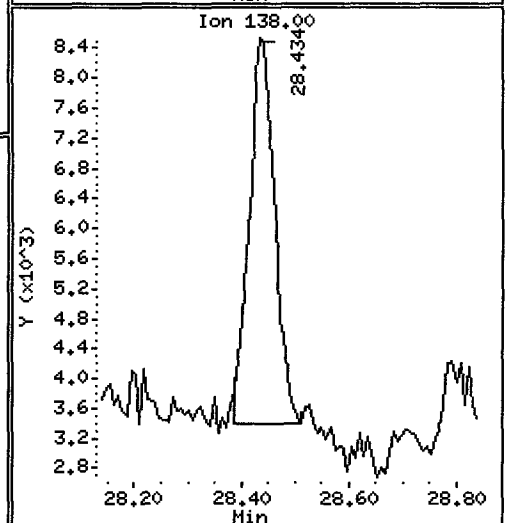
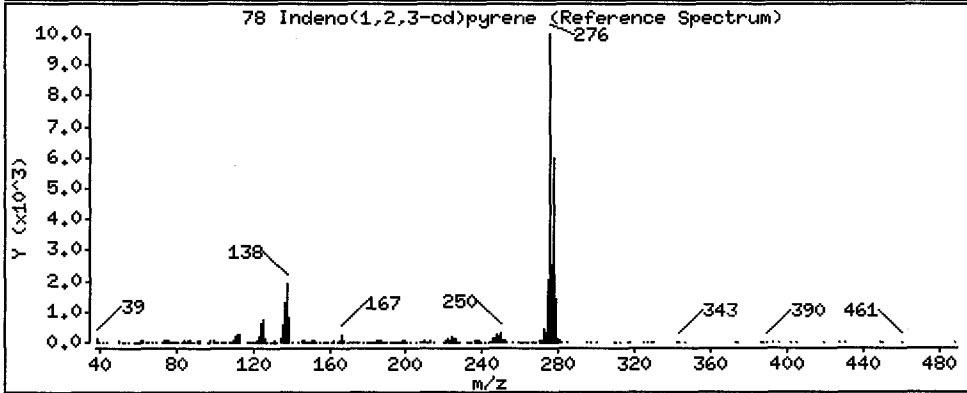
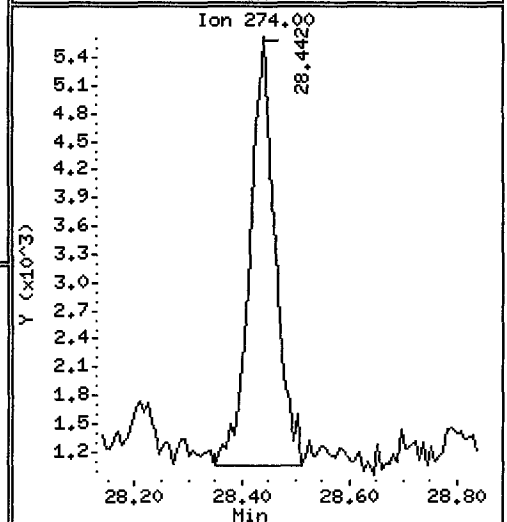
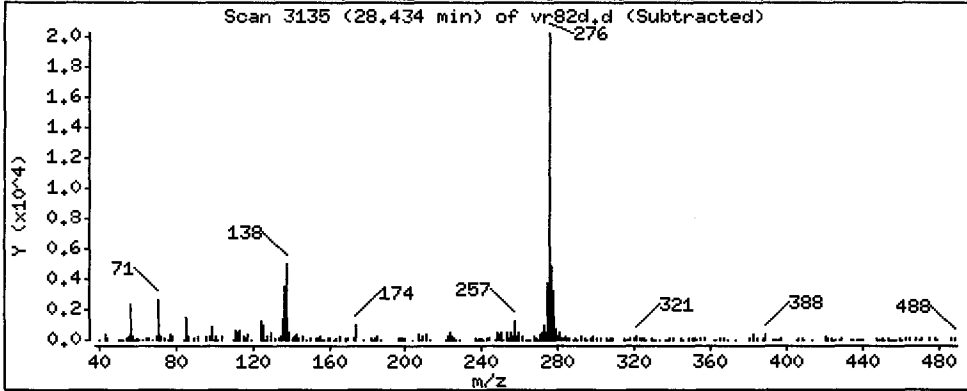
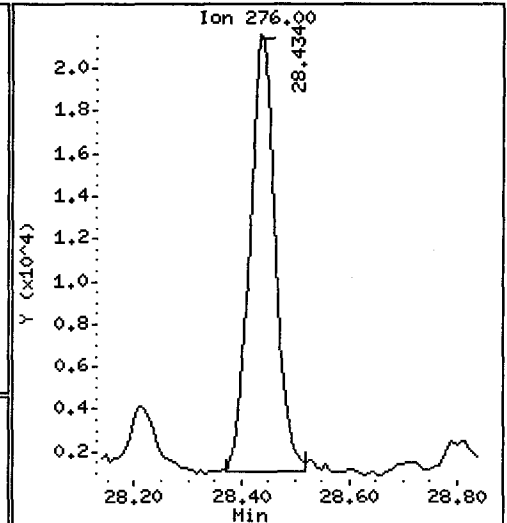
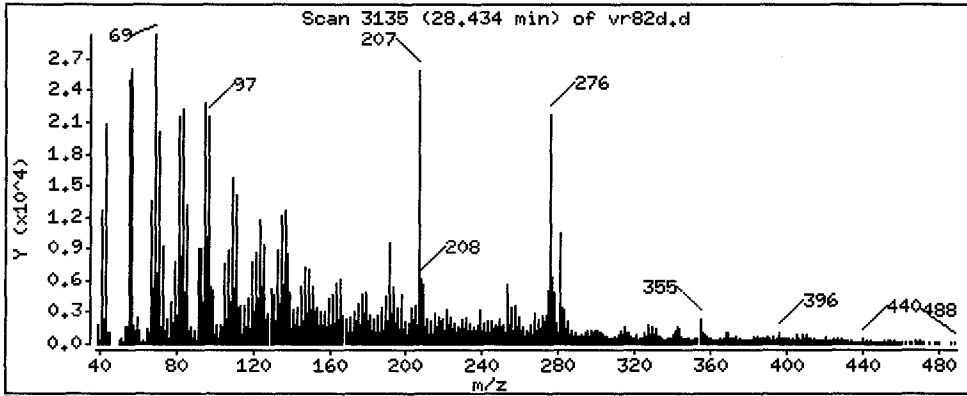
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 50.90 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

Operator: VTS/YZ

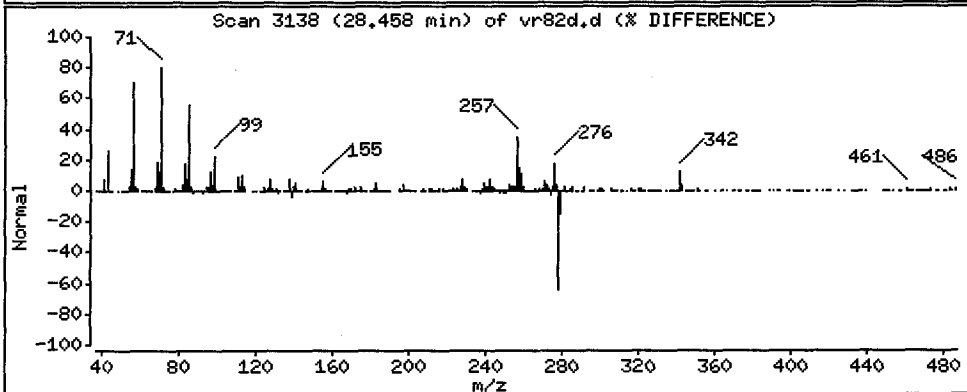
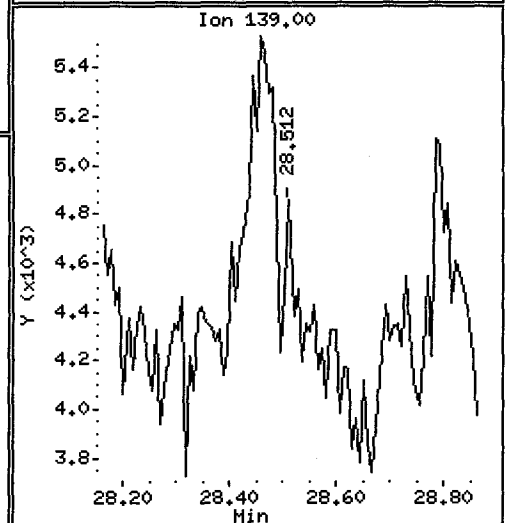
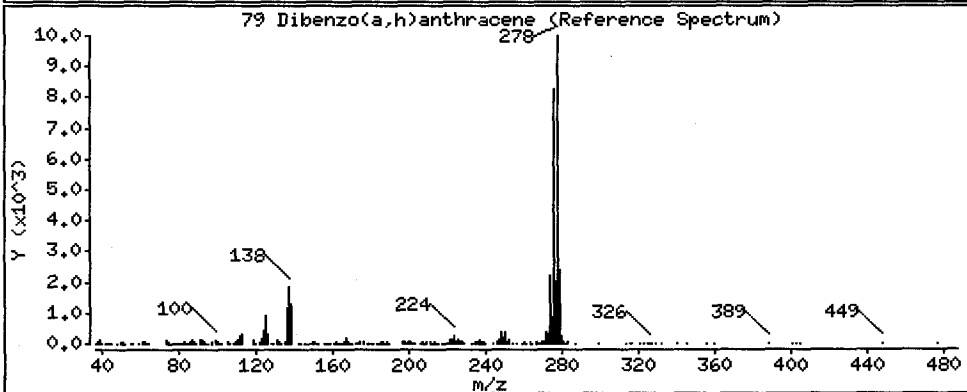
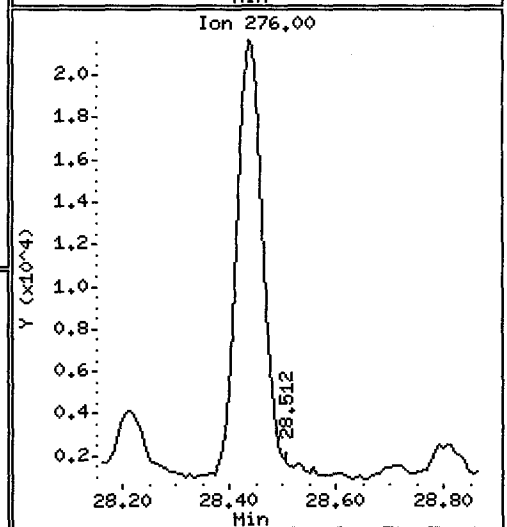
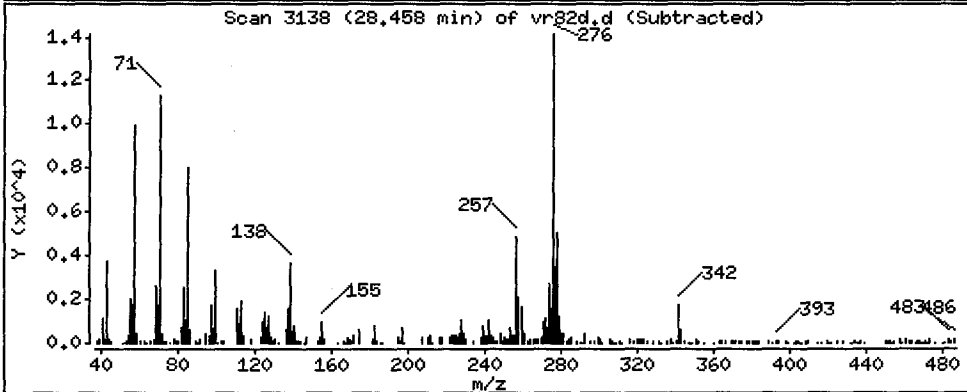
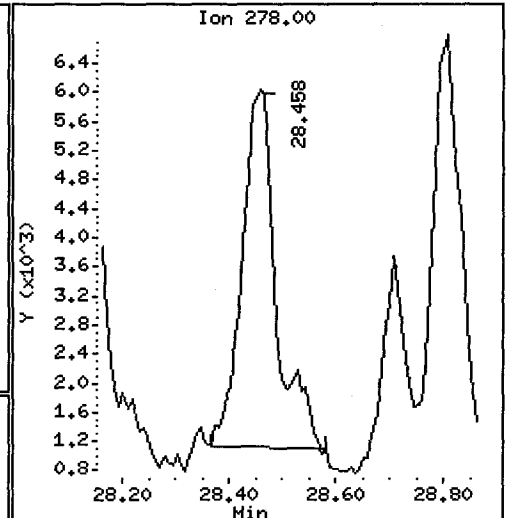
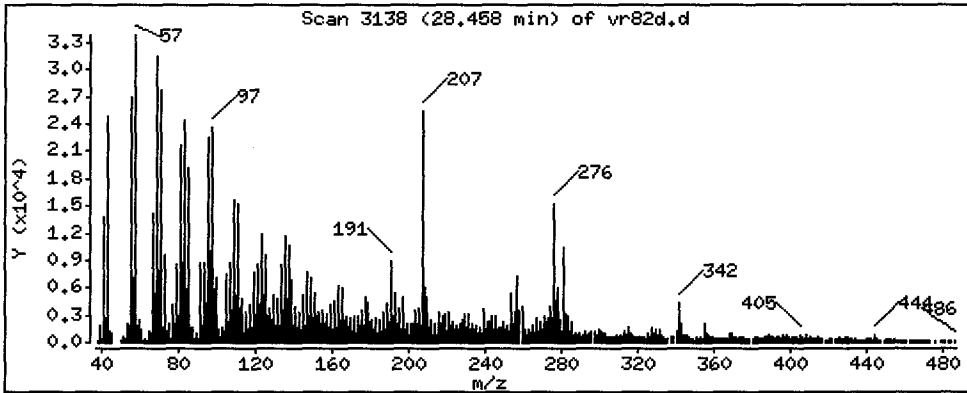
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 20.77 ug/kg

GC



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

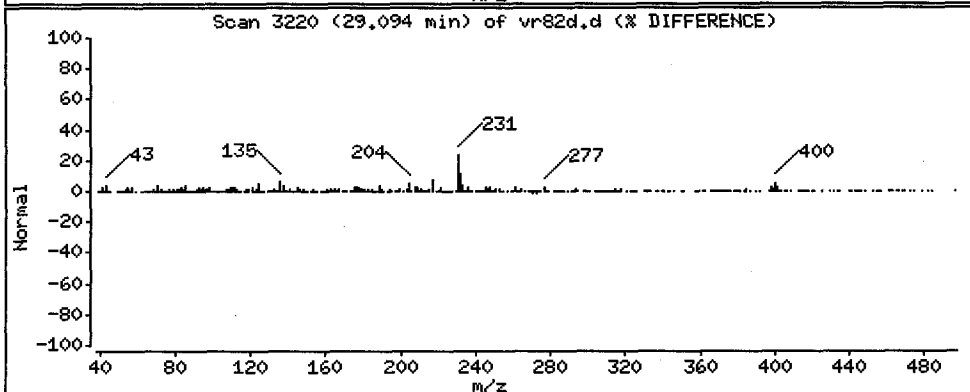
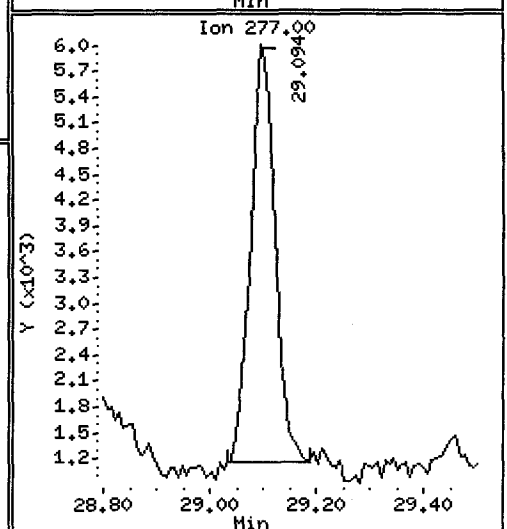
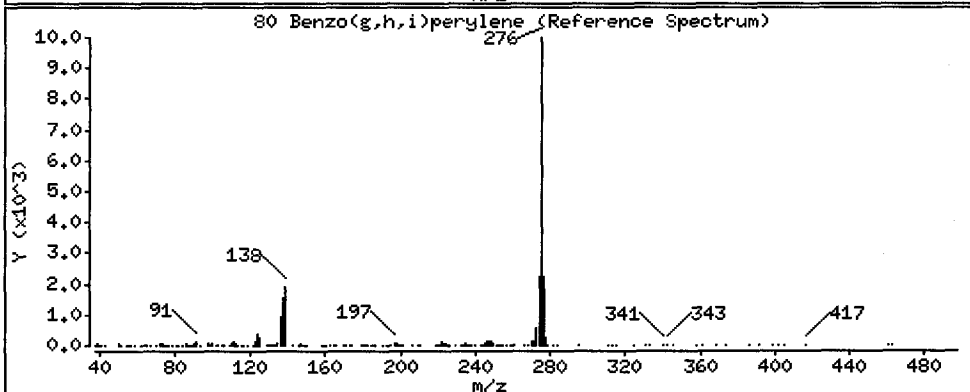
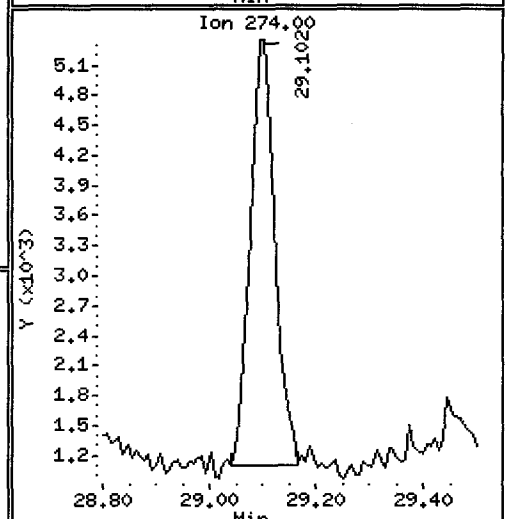
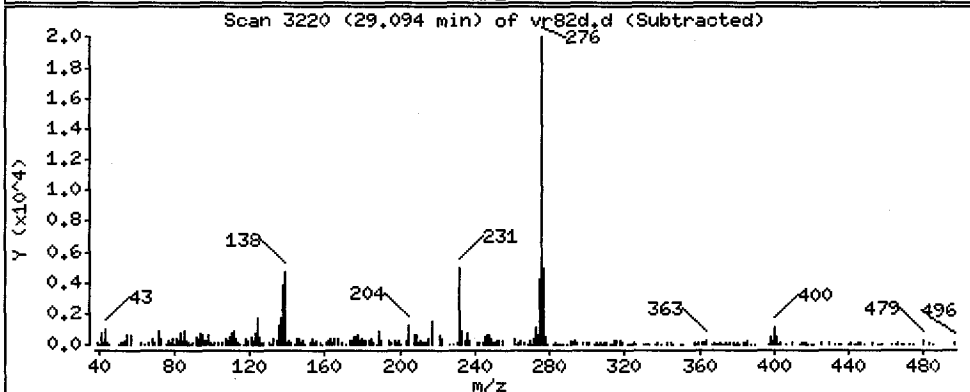
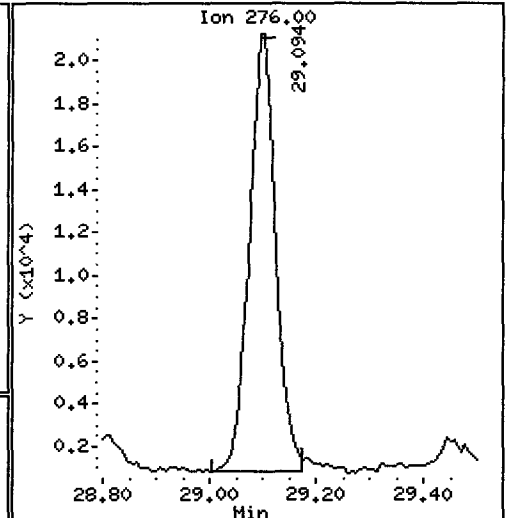
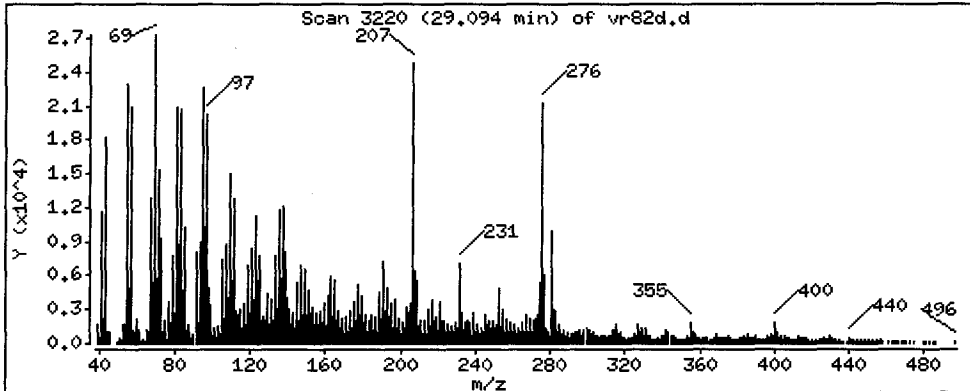
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 62.37 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

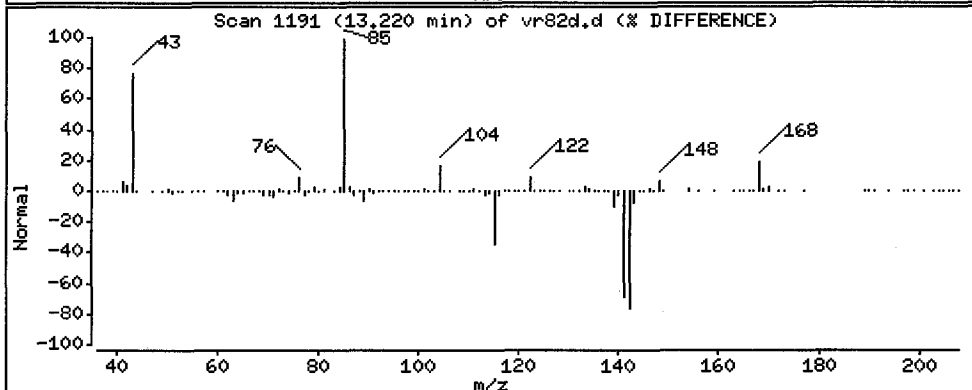
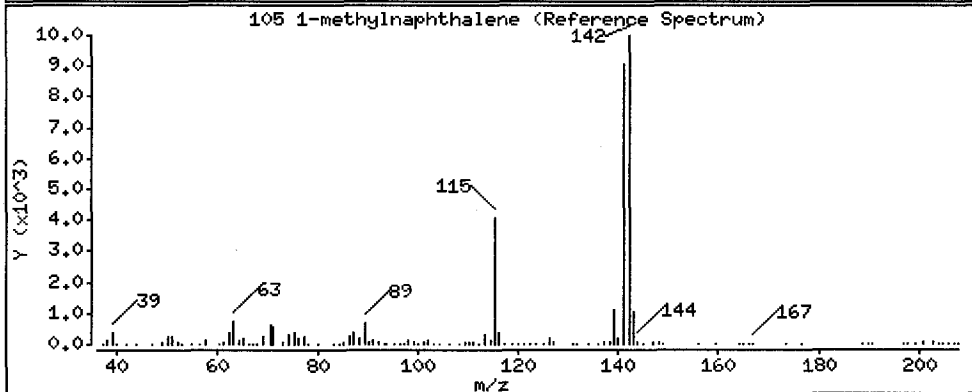
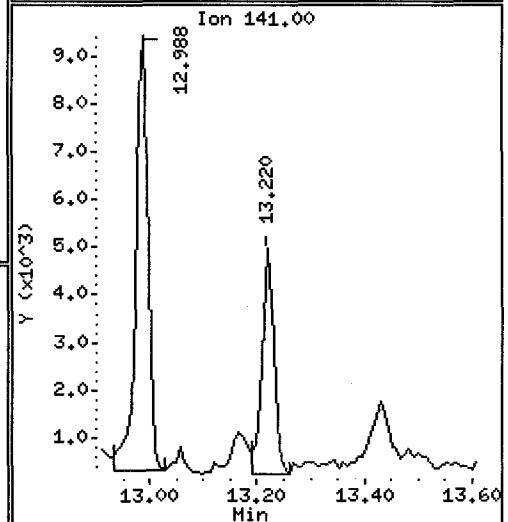
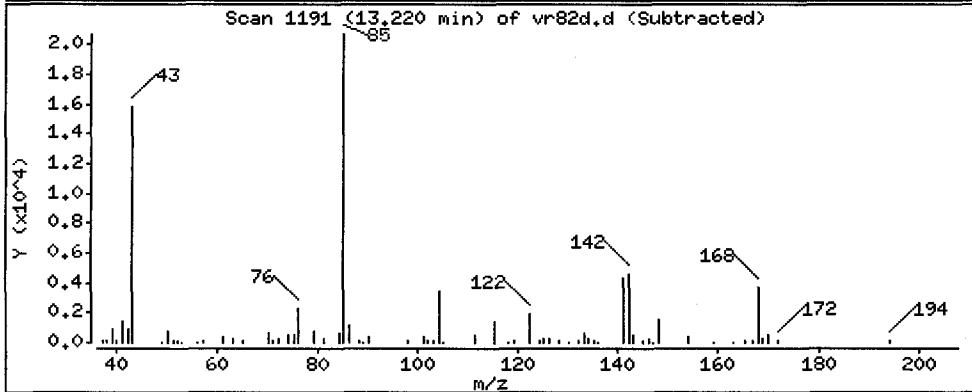
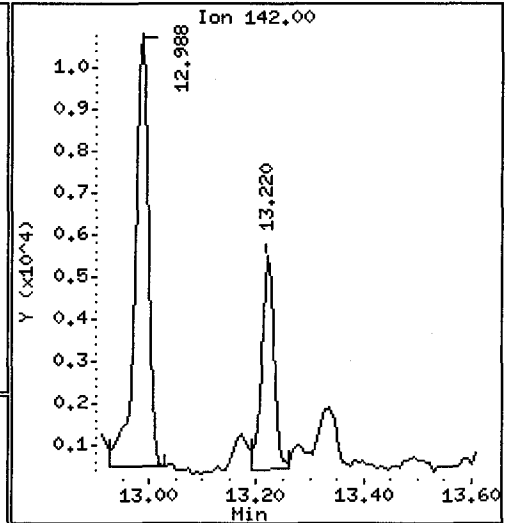
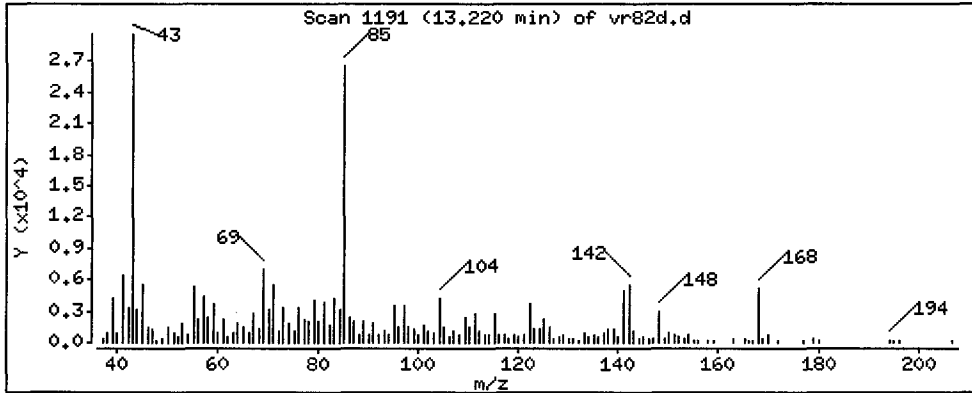
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 12.89 ug/kg



Date : 05-DEC-2012 17:03

Client ID: SG-05-S-C-121108

Instrument: nt10.i

Sample Info: VR82D

Volume Injected (uL): 1.0

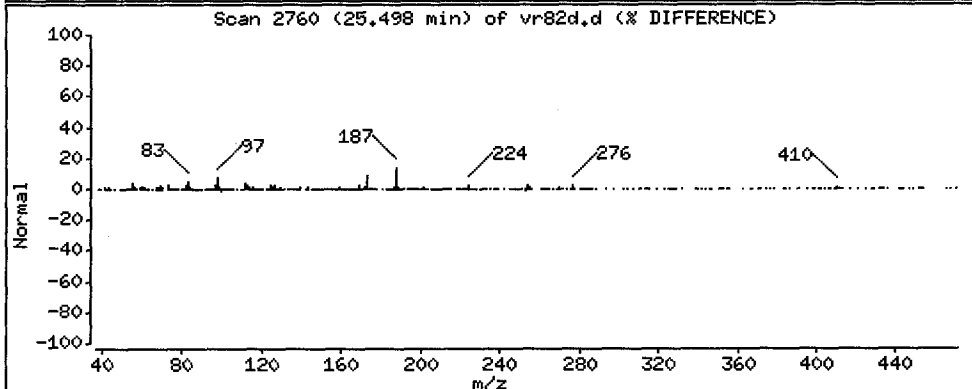
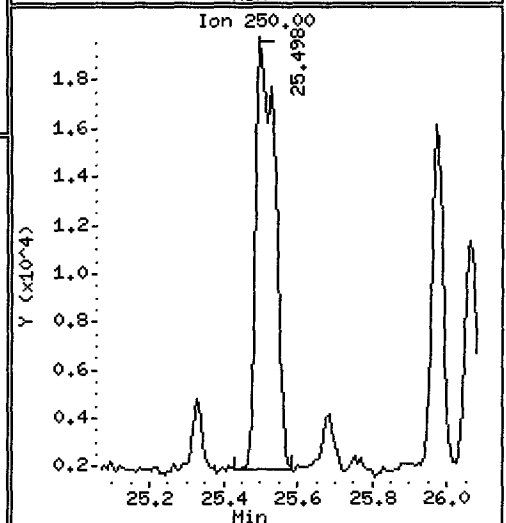
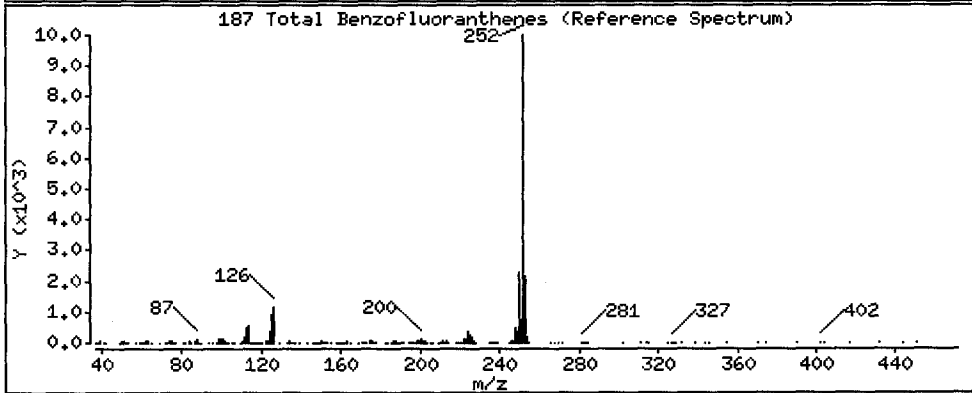
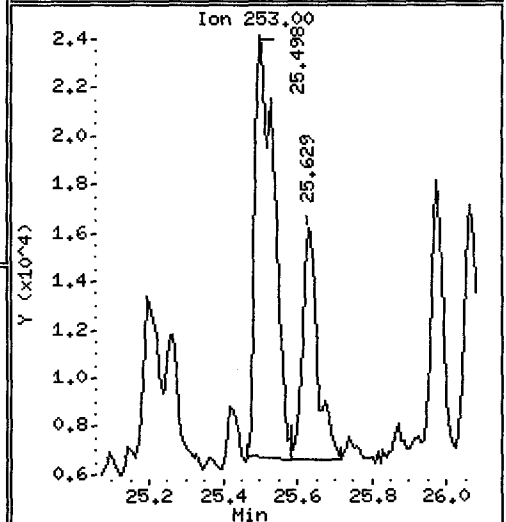
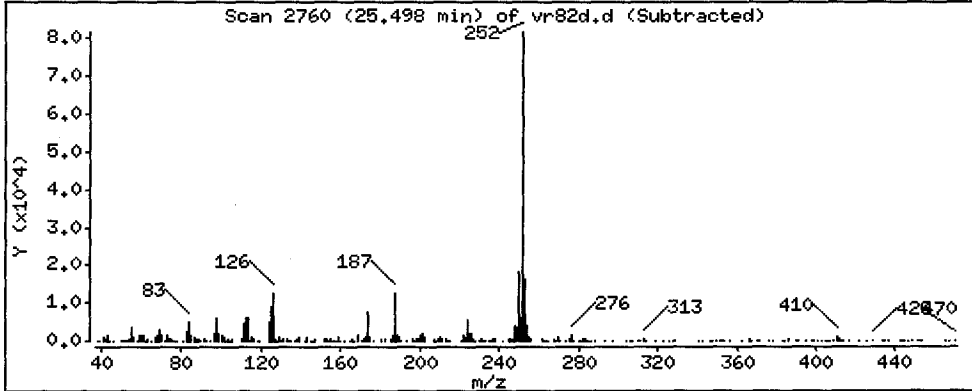
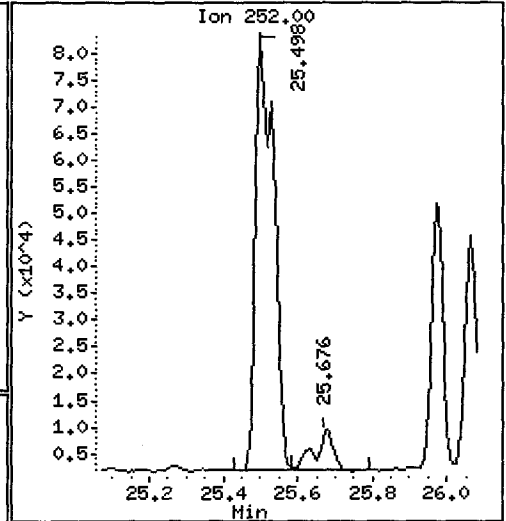
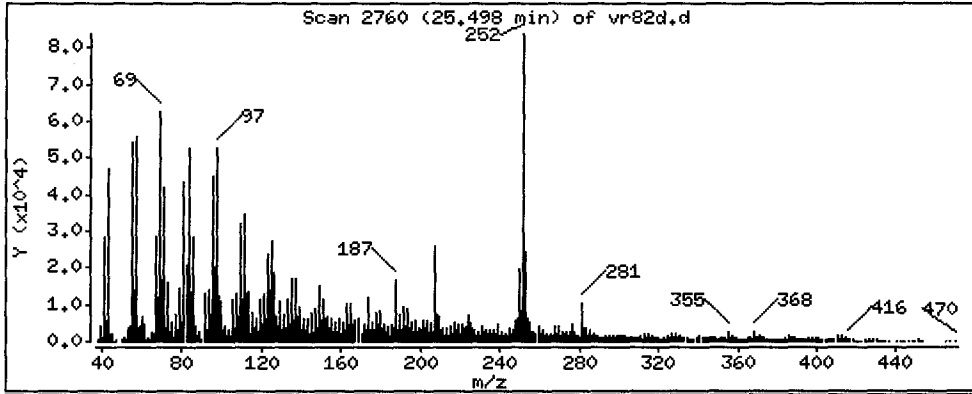
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

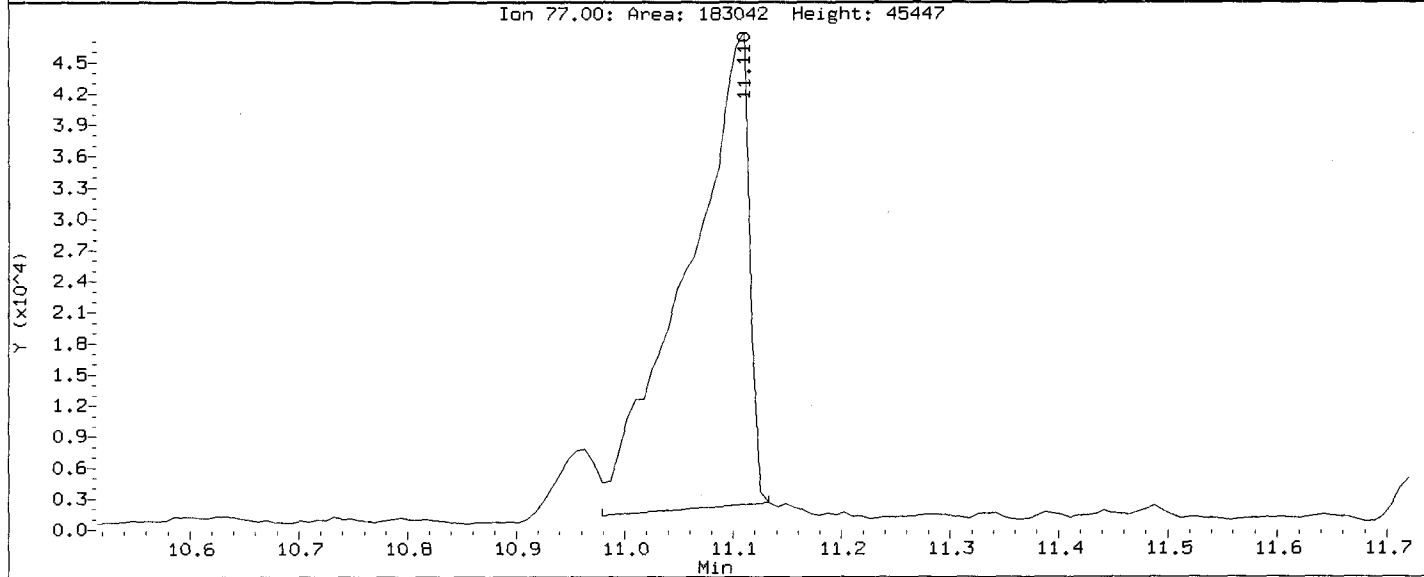
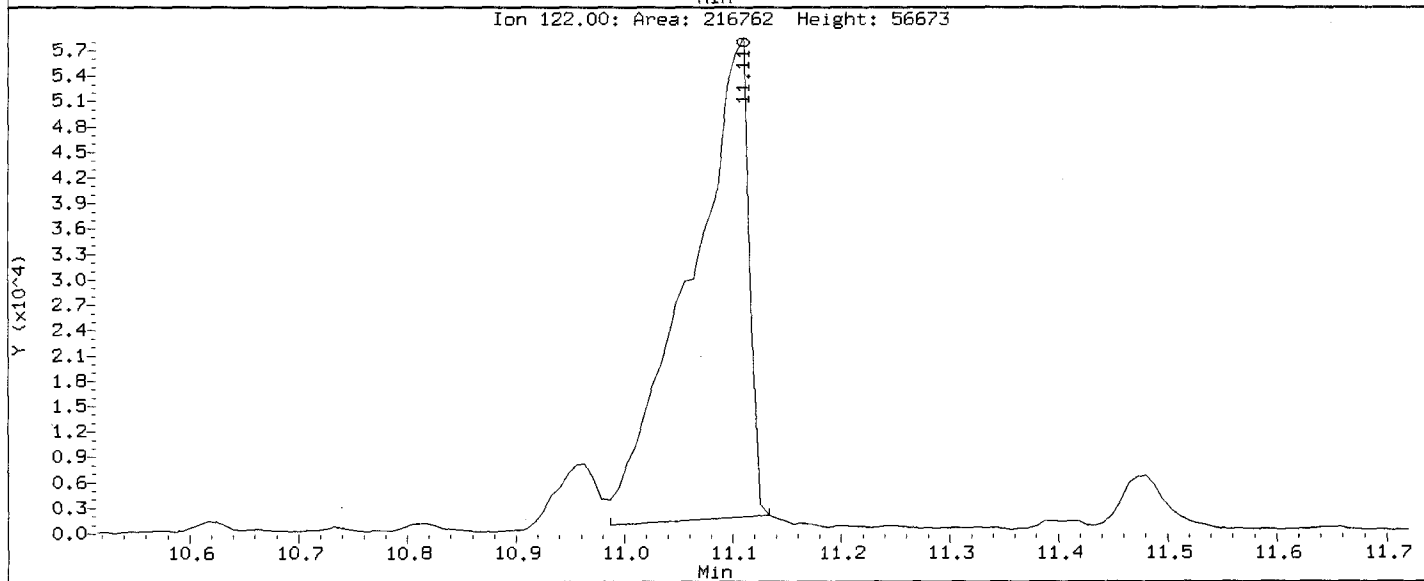
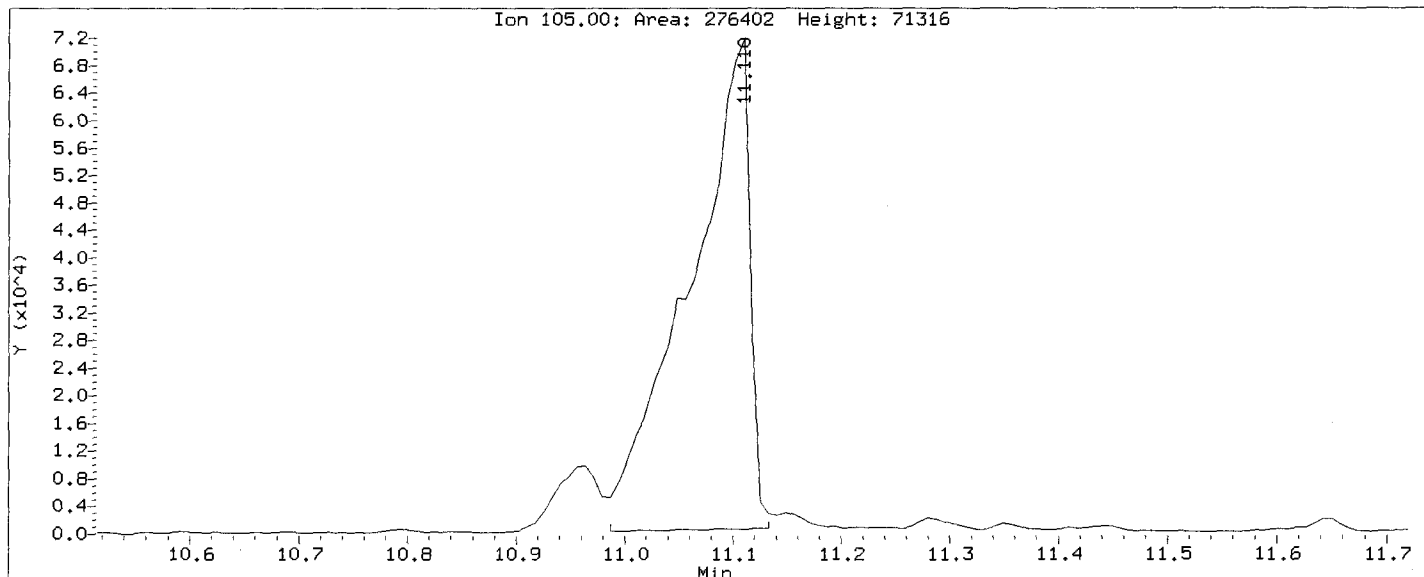
Concentration: 221.7 ug/kg



UP
12.6.12

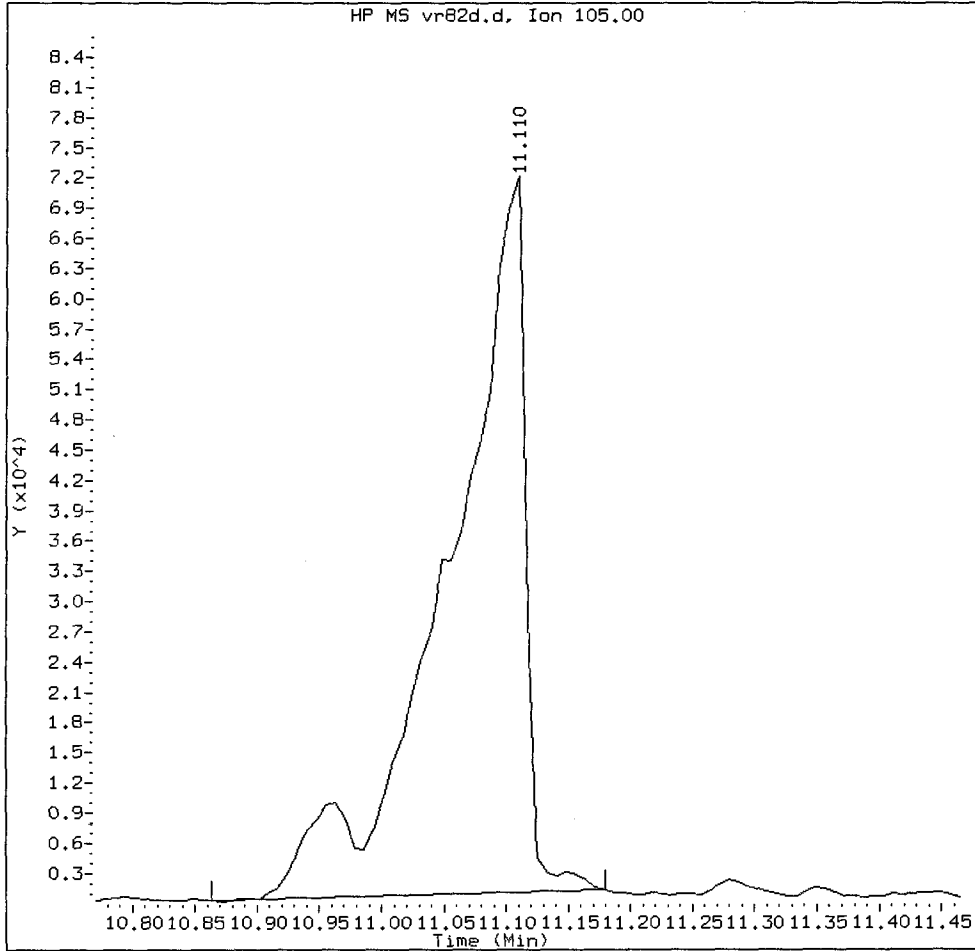
Data File: /chem1/nt10.i/20121205.b/vr82d.d
Injection Date: 05-DEC-2012 17:03
Instrument: nt10.i
Client Sample ID: SG-05-S-C-121108

Compound: Benzoic acid
CAS Number: 65-85-0



VR82D, /chem1/nt10.i/20121205.b/vr82d.d

Benzoic acid Amount: 12.93 Area: 310556



MANUAL INTEGRATION for Benzoic acid

- ① Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

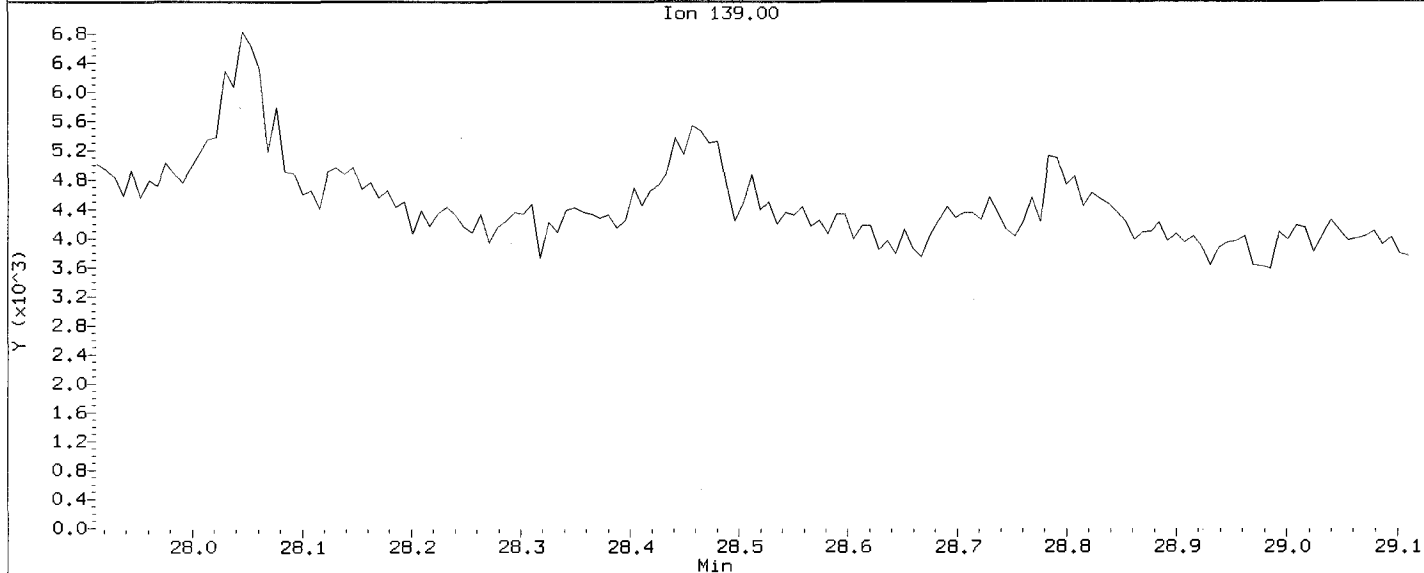
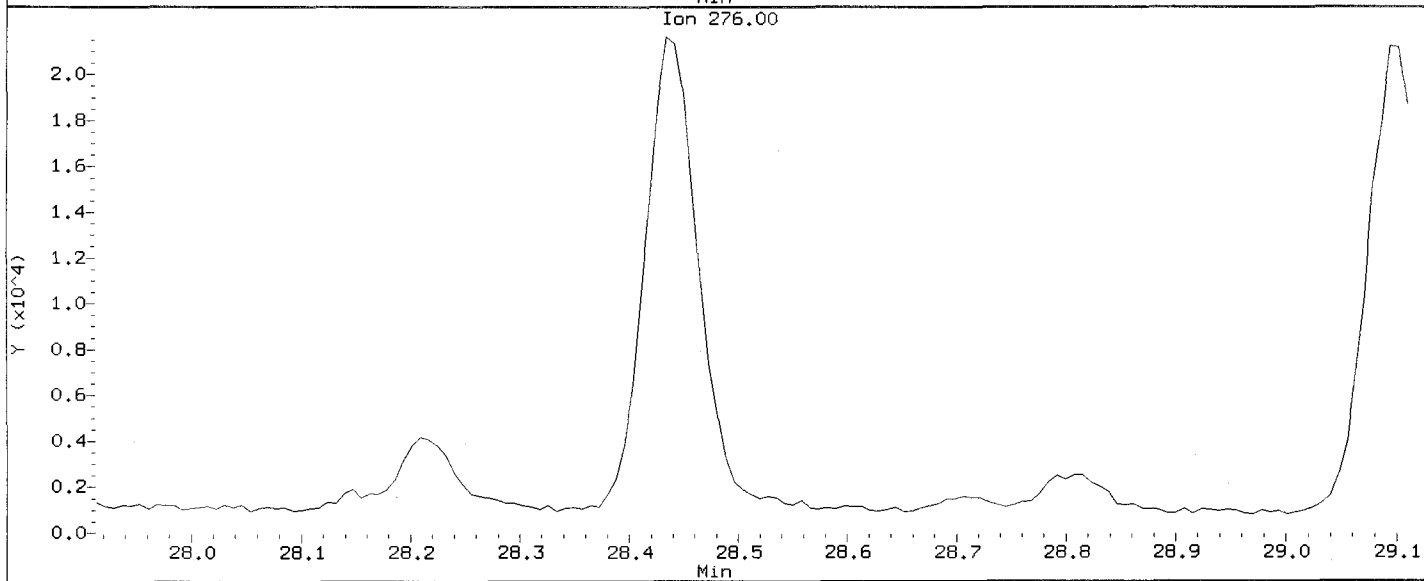
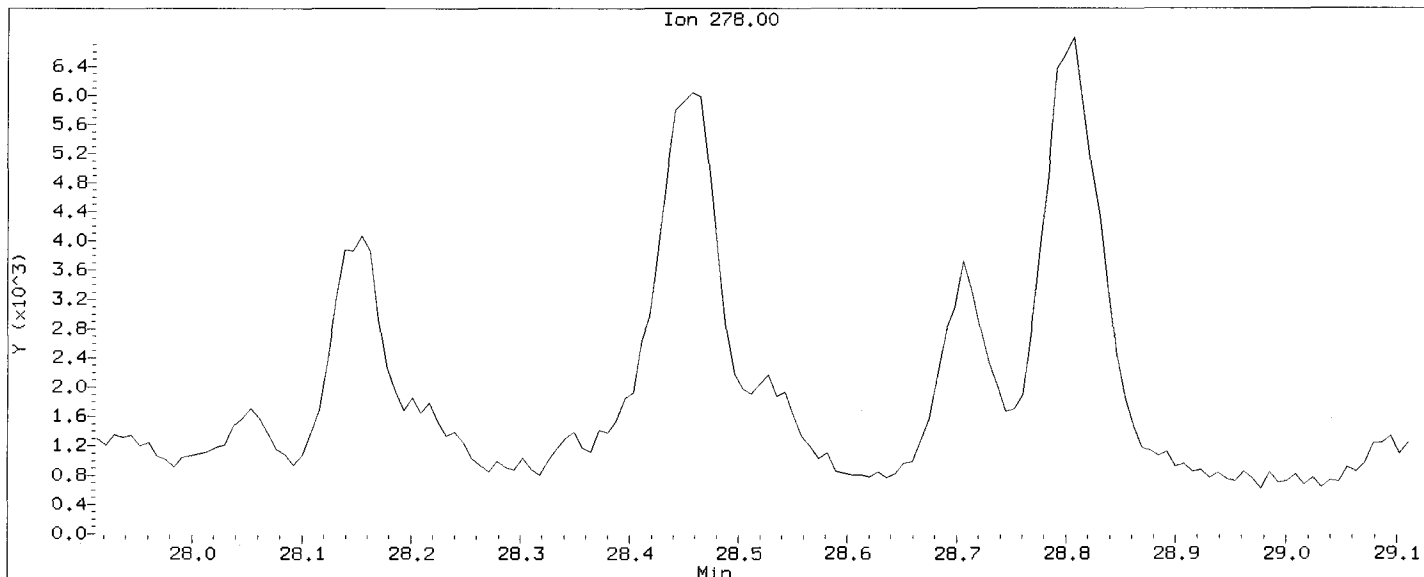
Analyst: VD

Date: 12.6.12

Data File: /chem1/nt10.i/20121205.b/vr82d.d
Injection Date: 05-DEC-2012 17:03
Instrument: nt10.i
Client Sample ID: SG-05-S-C-121108

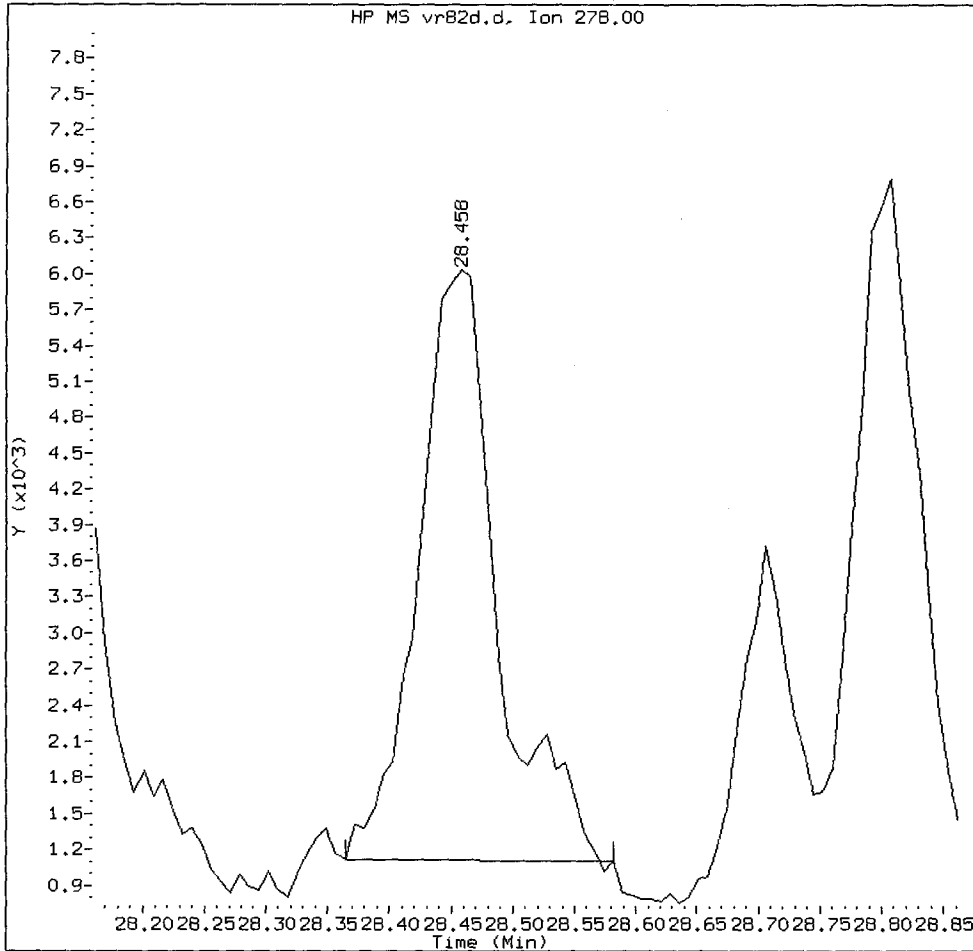
12-6-12

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



VR82D, /chem1/nt10.i/20121205.b/vr82d.d

Dibenzo(a,h)anthracene Amount: 0.21 Area: 22287



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- ① Baseline correction
- ② Poor chromatography
- ③ Peak not found
- ④ Totals calculation

5. Other _____

Analyst: UJ

Date: 12-6-12

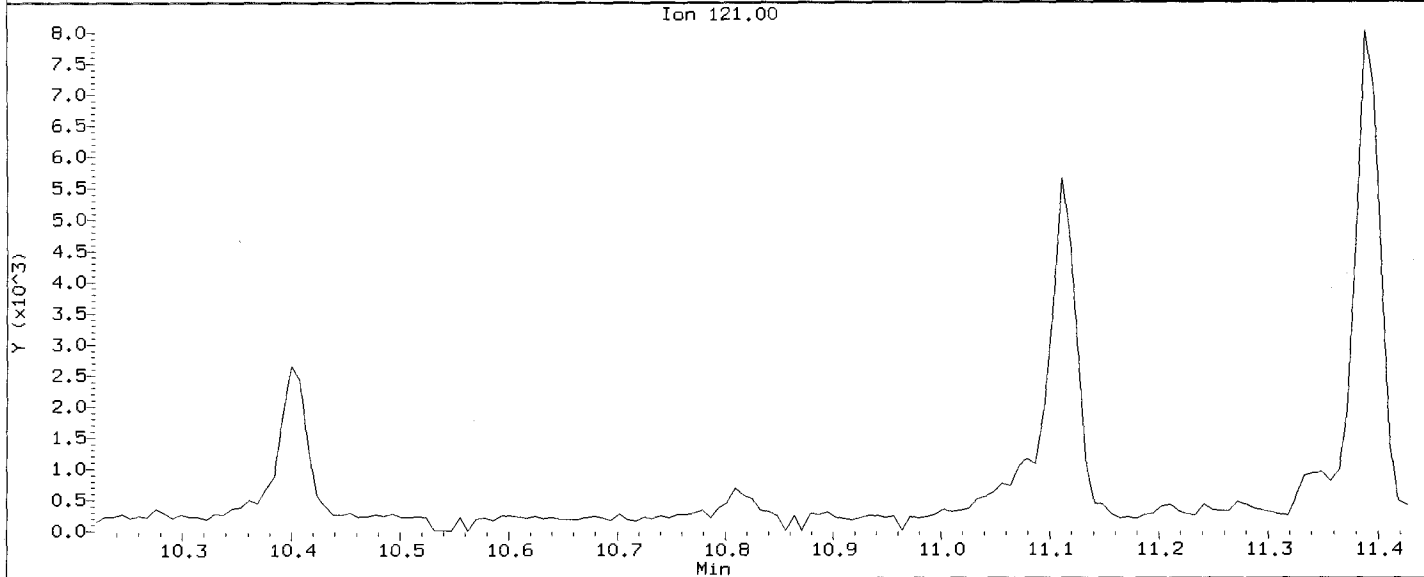
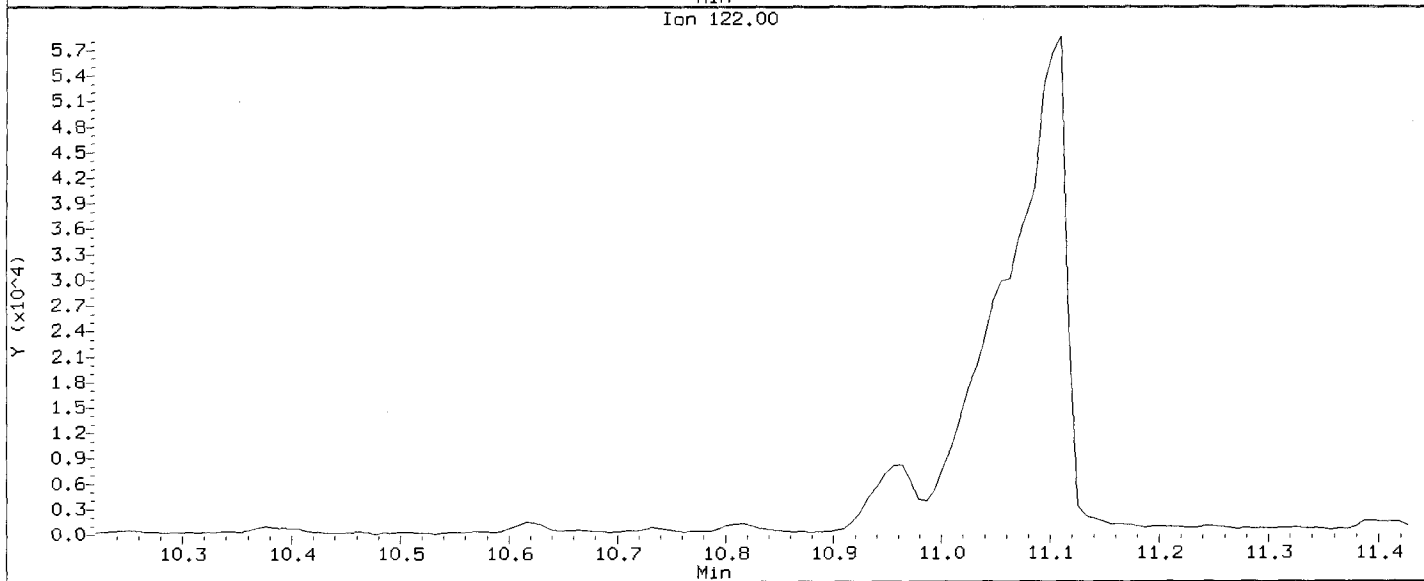
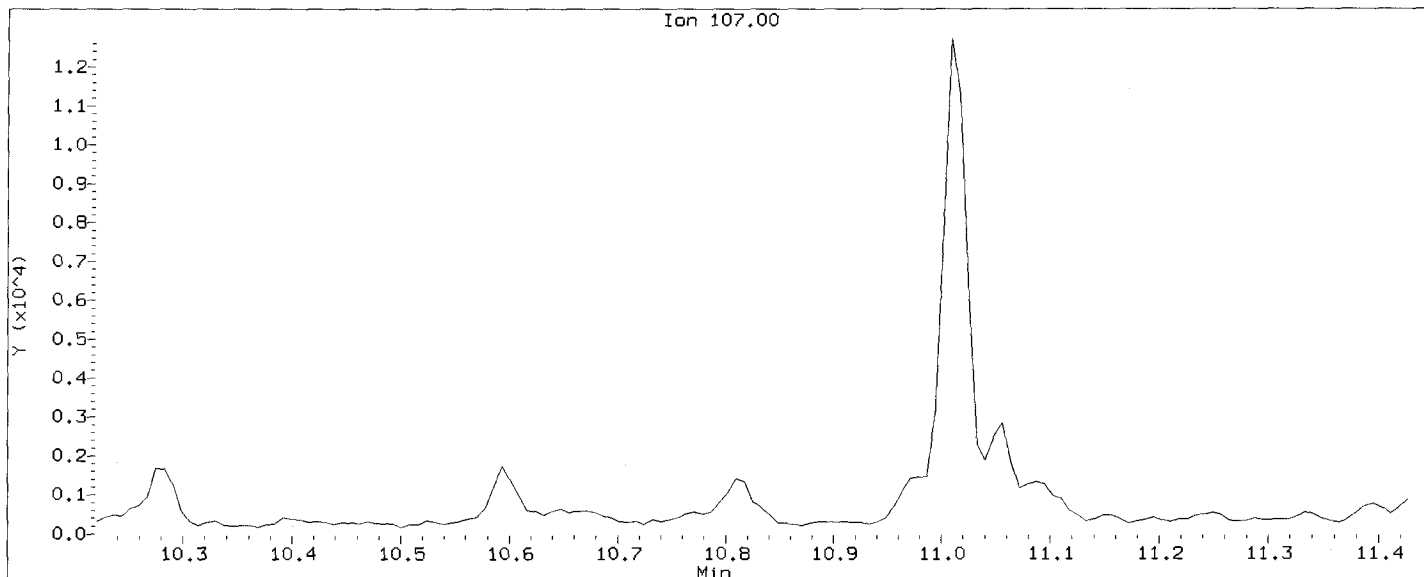
CO-ELUTION SUMMARY FOR FILE - vr82d.d

Lab ID: VR82D, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.1/20121205.b/vr82d.d
Injection Date: 05-DEC-2012 17:03
Instrument: nt10.1
Client Sample ID: SG-05-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82e.d
 Lab Smp Id: VR82E Client Smp ID: SG-06-S-C-121108
 Inj Date : 05-DEC-2012 17:39
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82E
 Misc Info : 12-22483
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	35.20000	Weight of sample extracted (g)
M	71.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112		6.528	6.474	(0.742)	160080	5.17374	506.8
\$ 2 Phenol-d5	99		8.221	8.205	(0.935)	209752	5.47853	536.7
3 Phenol	94		8.244	8.228	(0.938)	33128	0.82138	80.46
\$ 5 2-Chlorophenol-d4	132		8.437	8.429	(0.960)	185599	5.60275	548.9
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.793	8.808	(1.000)	96723	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.165	9.189	(1.042)	81386	3.36933	330.1
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		9.134	9.134	(1.039)	36163	1.89614	185.8
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
15 4-Methylphenol	108		9.709	9.709	(1.104)	19069	0.92742	90.85
\$ 18 Nitrobenzene-d5	82		9.965	9.988	(0.871)	115649	3.36288	329.4
22 2,4-Dimethylphenol	107		Compound Not Detected.					

Compounds	QUANT	SIG	CONCENTRATIONS					
			ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/kg)	
=====	=====	==	=====	=====	=====	=====	=====	
24 Benzoic acid	105	11.079	11.118	(0.968)	258201	11.6712	1143 (M)	
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
* 27 Naphthalene-d8	136	11.442	11.472	(1.000)	367009	4.00000		
28 Naphthalene	128	11.488	11.519	(1.004)	34500	0.38638	37.85	
30 Hexachlorobutadiene	225	Compound Not Detected.						
32 2-Methylnaphthalene	142	12.988	13.027	(1.135)	9051	0.13605	13.33	
\$ 36 2-Fluorobiphenyl	172	13.847	13.894	(0.904)	306818	4.00308	392.2	
39 Dimethylphthalate	163	Compound Not Detected.						
40 Acenaphthylene	152	Compound Not Detected.						
* 42 Acenaphthene-d10	164	15.326	15.372	(1.000)	216552	4.00000		
44 Acenaphthene	153	15.395	15.441	(1.005)	10059	0.17194	16.84	
46 Dibenzofuran	168	Compound Not Detected.						
50 Diethylphthalate	149	16.439	16.493	(1.073)	43159	0.58941	57.74	
49 Fluorene	166	16.524	16.570	(1.078)	19829	0.27528	26.97	
54 N-Nitrosodiphenylamine	169	Compound Not Detected.						
\$ 55 2,4,6-Tribromophenol	330	17.118	17.156	(1.117)	87400	6.85163	671.2	
57 Hexachlorobenzene	284	Compound Not Detected.						
58 Pentachlorophenol	266	Compound Not Detected.						
* 59 Phenanthrene-d10	188	18.609	18.656	(1.000)	363874	4.00000		
60 Phenanthrene	178	18.656	18.702	(1.002)	132588	1.47166	144.2	
61 Anthracene	178	18.756	18.803	(1.008)	27984	0.28897	28.31	
63 Di-n-butylphthalate	149	Compound Not Detected.						
64 Fluoranthene	202	21.124	21.139	(1.135)	336799	2.96584	290.5	
65 Pyrene	202	21.534	21.565	(0.907)	351757	2.94047	288.1	
\$ 66 Terphenyl-d14	244	21.859	21.898	(0.921)	346130	4.32861	424.0	
67 Butylbenzylphthalate	149	22.811	22.858	(0.961)	28343	0.58326	57.14	
68 Benzo(a)anthracene	228	23.709	23.748	(0.999)	135141	1.16443	114.1	
* 69 Chrysene-d12	240	23.733	23.771	(1.000)	408338	4.00000		
71 Chrysene	228	23.779	23.818	(1.002)	196175	1.90268	186.4	
72 bis(2-Ethylhexyl)phthalate	149	23.872	23.918	(0.960)	409948	5.48422	537.2	
* 134 Di-n-octylphthalate-d4	153	24.855	24.902	(1.000)	541756	4.00000		
73 Di-n-octylphthalate	149	24.863	24.909	(1.000)	51007	0.41534	40.69 (M) M	
76 Benzo(a)pyrene	252	26.071	26.102	(0.996)	132257	1.17346	115.0	
* 77 Perylene-d12	264	26.179	26.210	(1.000)	394922	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.450	28.489	(1.087)	106373	0.83278	81.58	
79 Dibenzo(a,h)anthracene	278	28.465	28.512	(1.087)	38419	0.37901	37.13 (M)	
80 Benzo(g,h,i)perylene	276	29.110	29.149	(1.112)	103872	0.95018	93.08	
105 1-methylnaphthalene	142	Compound Not Detected.						
187 Total Benzofluoranthenes	252	25.513	25.575	(0.975)	352608	3.03405	297.2	
98 Retene	219	22.145	22.215	(0.933)	52063			
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

U1)
12-6-12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82e.d
 Lab Smp Id: VR82E
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22483

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-06-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	96723	18.58
27 Naphthalene-d8	299399	149700	598798	367009	22.58
42 Acenaphthene-d10	178564	89282	357128	216552	21.27
59 Phenanthrene-d10	305410	152705	610820	363874	19.14
69 Chrysene-d12	323853	161926	647706	408338	26.09
134 Di-n-octylphthala	427845	213922	855690	541756	26.62
77 Perylene-d12	305316	152658	610632	394922	29.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.18
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.61	-0.25
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.86	-0.19
77 Perylene-d12	26.21	25.71	26.71	26.18	-0.12

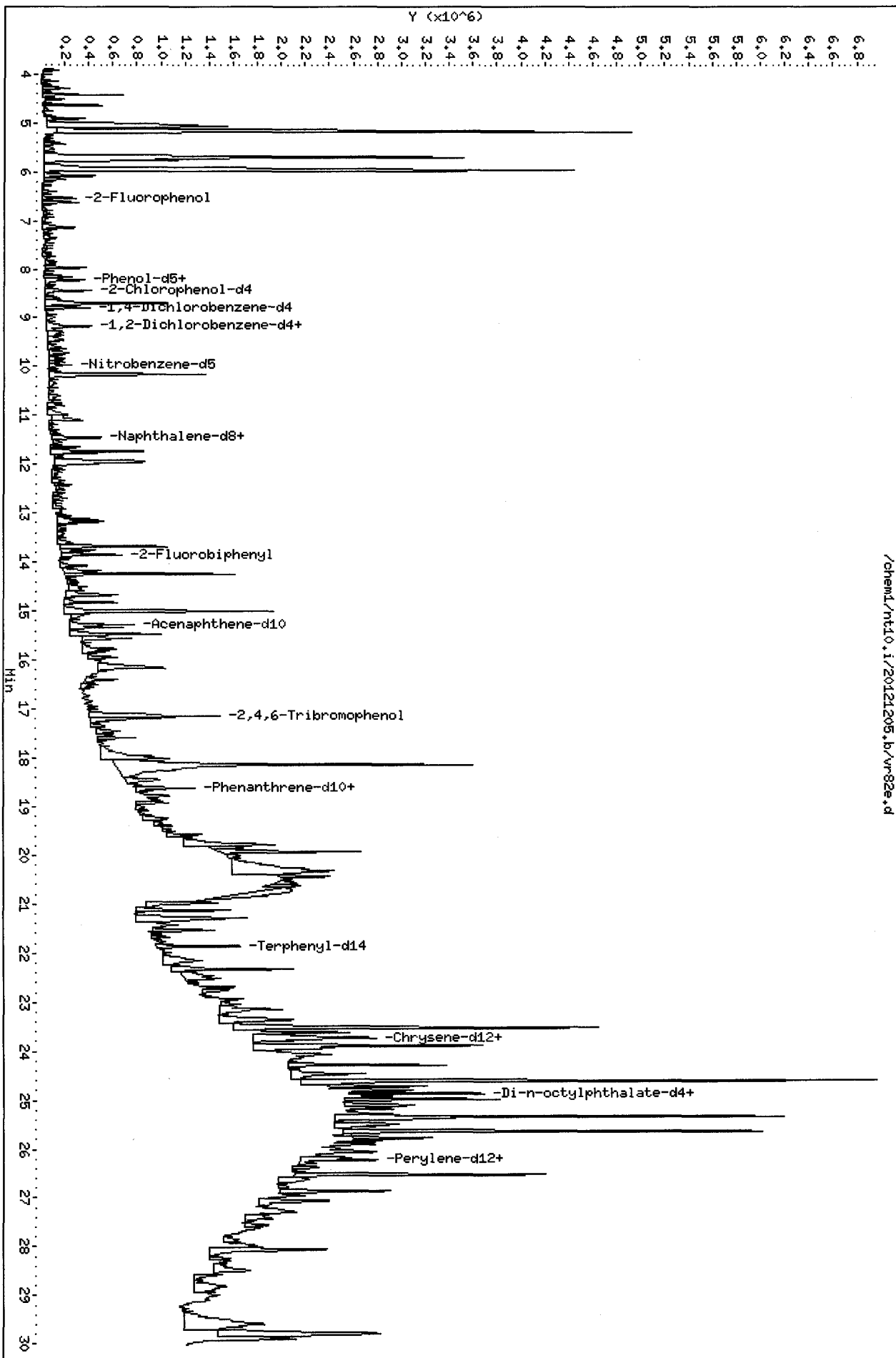
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82E	Client Smp ID: SG-06-S-C-121108
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22483	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	734.7	506.8	68.98	30-160
\$ 2 Phenol-d5	734.7	536.7	73.05	30-160
\$ 5 2-Chlorophenol-d4	734.7	548.9	74.70	30-160
\$ 10 1,2-Dichlorobenzen	489.8	330.1	67.39	30-160
\$ 18 Nitrobenzene-d5	489.8	329.4	67.26	30-160
\$ 36 2-Fluorobiphenyl	489.8	392.2	80.06	30-160
\$ 55 2,4,6-Tribromophen	734.7	671.2	91.36	30-160
\$ 66 Terphenyl-d14	489.8	424.0	86.57	30-160



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

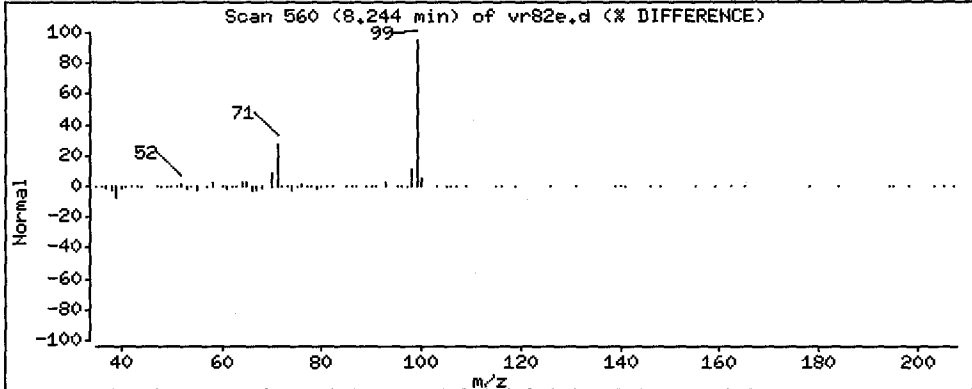
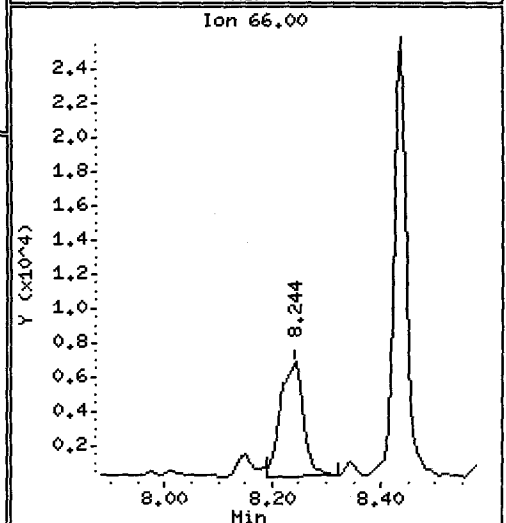
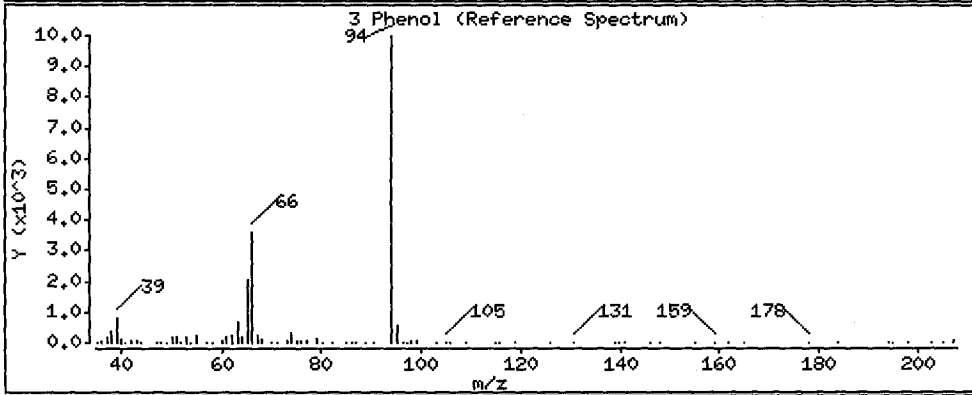
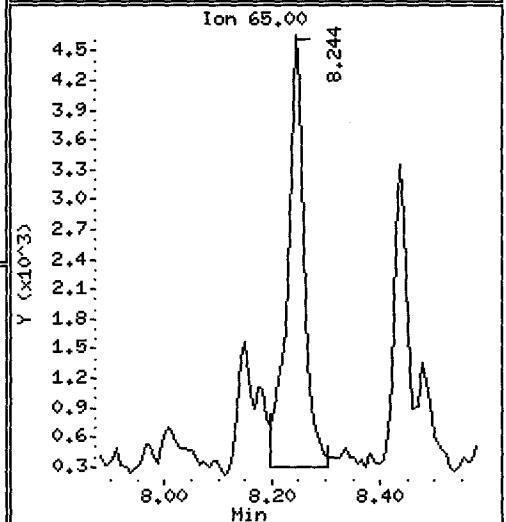
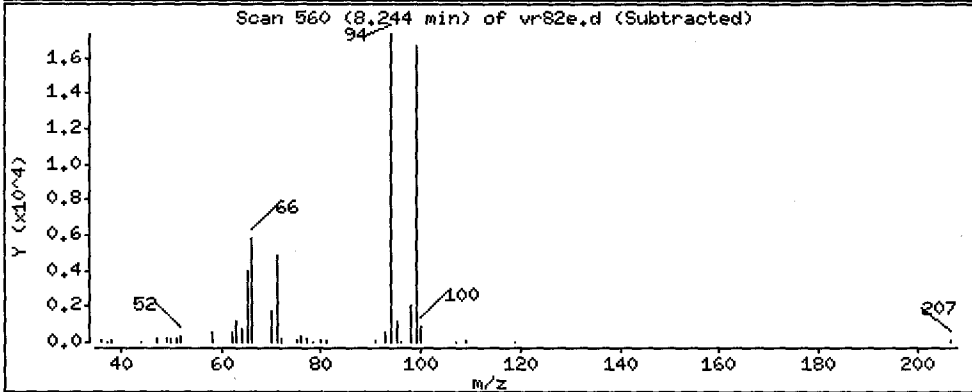
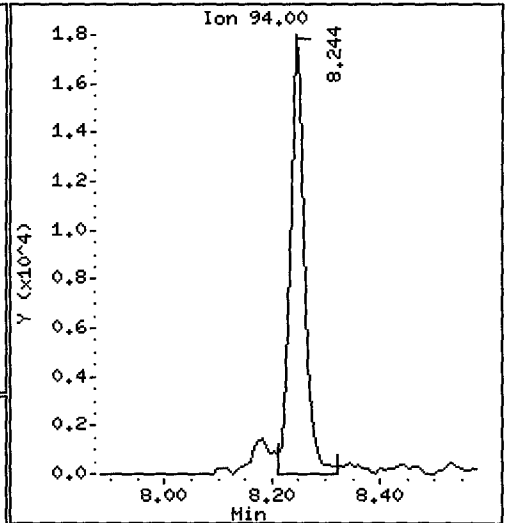
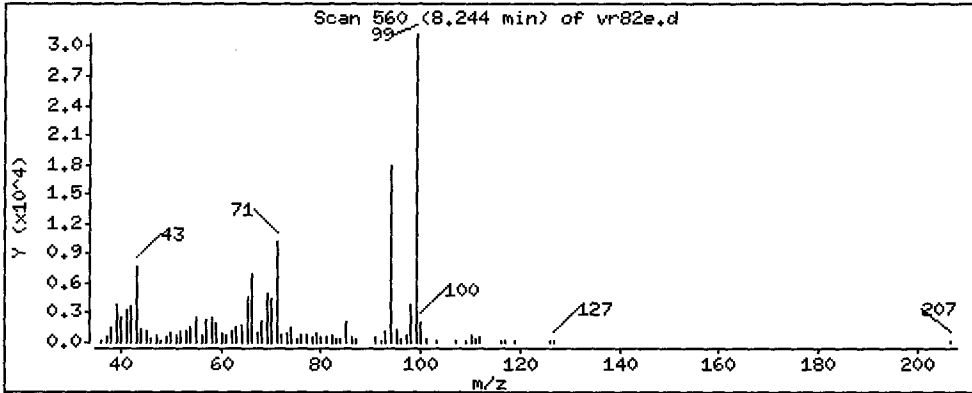
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 80.46 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

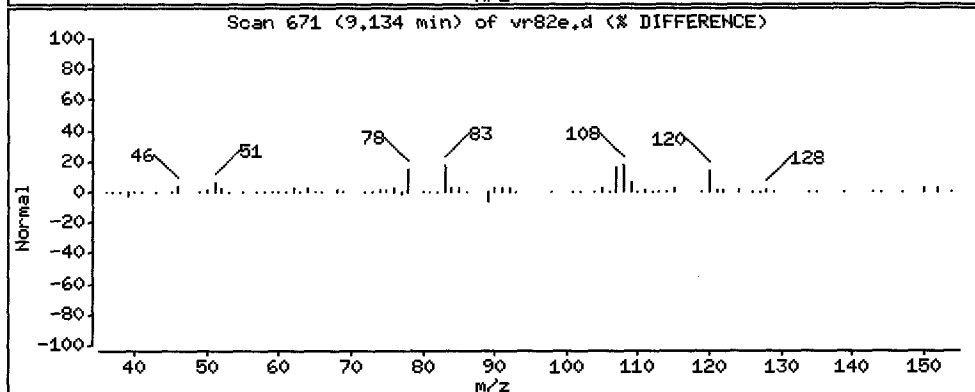
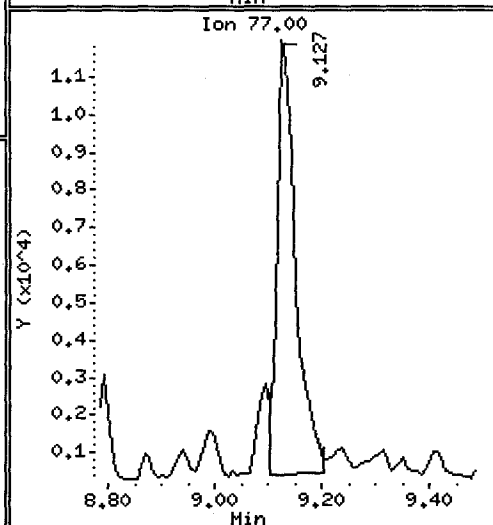
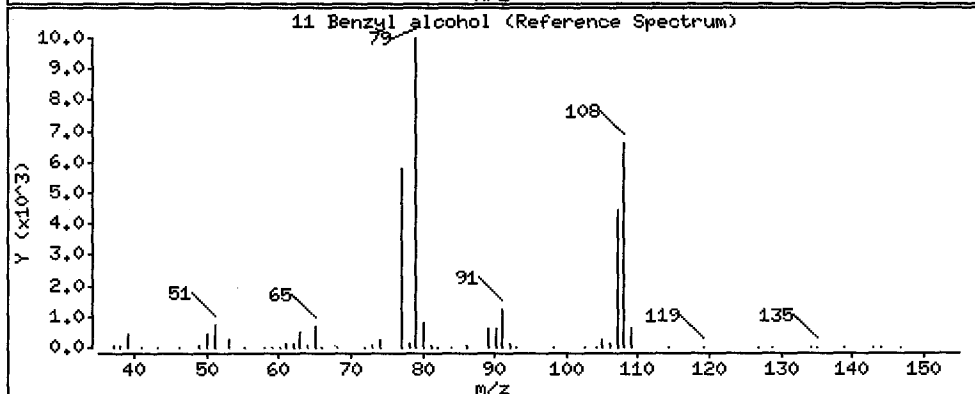
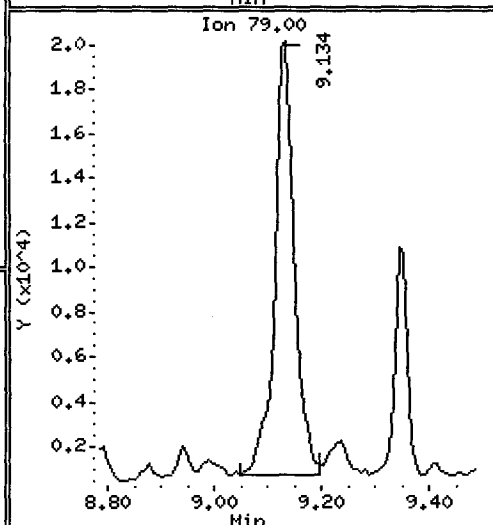
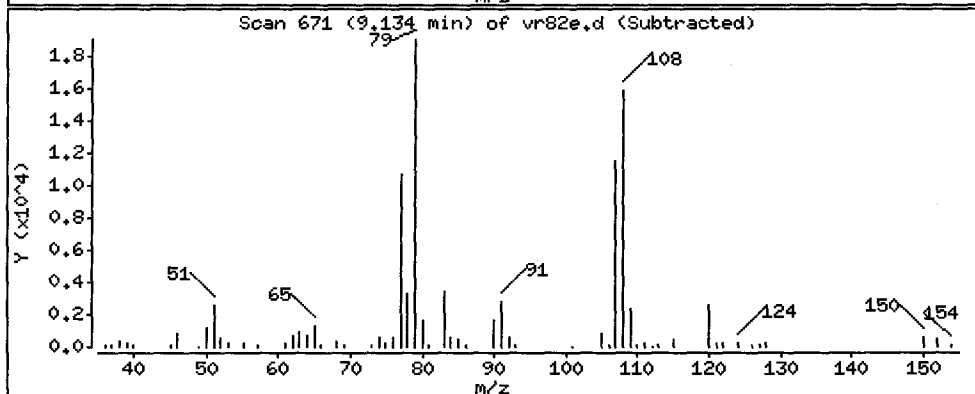
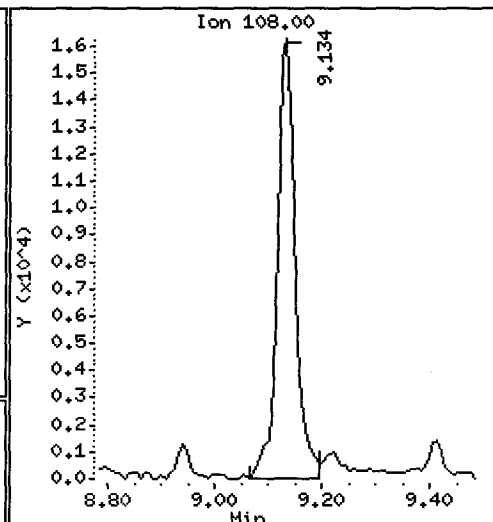
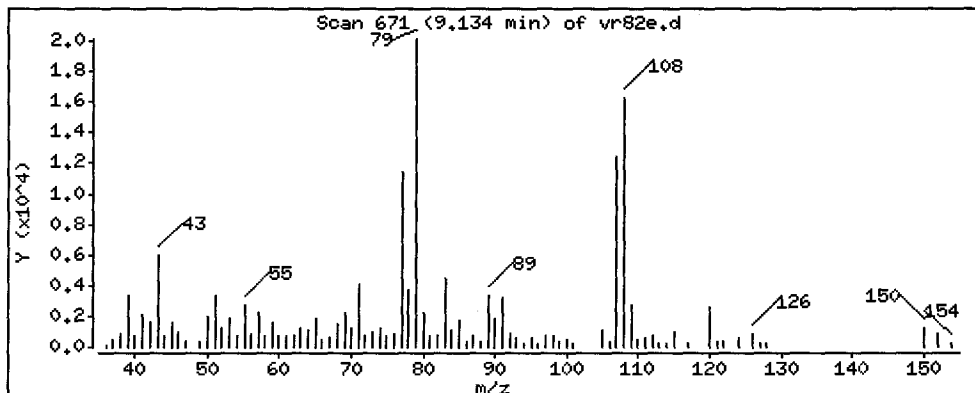
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 185.8 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

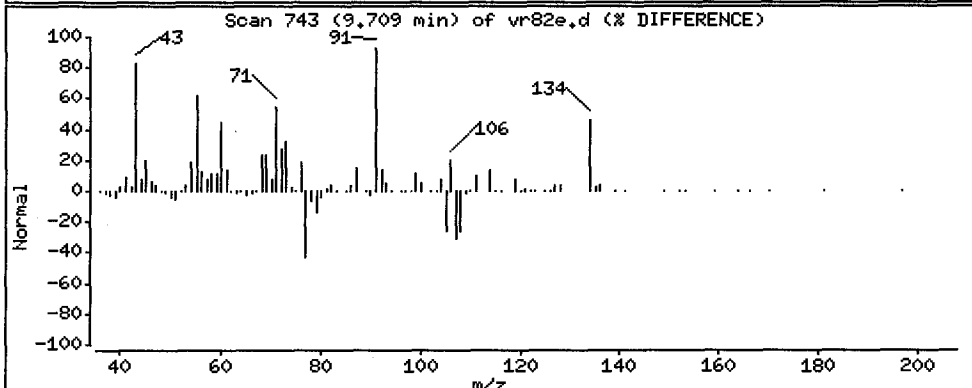
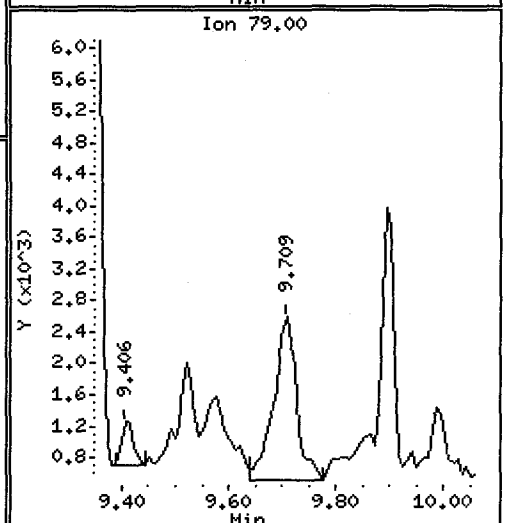
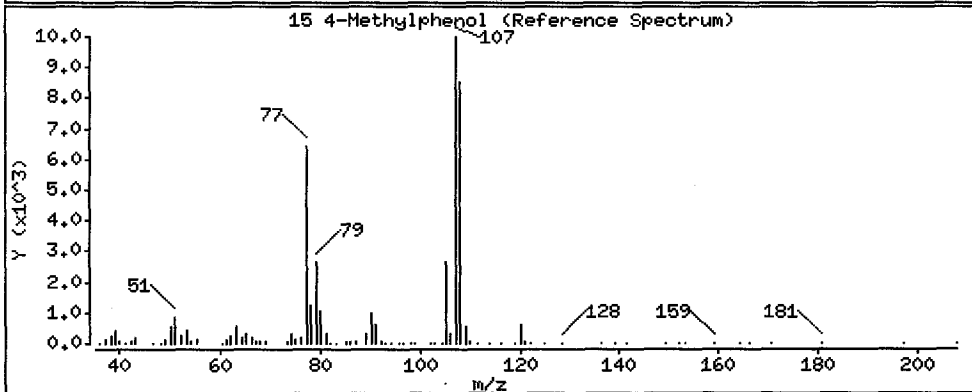
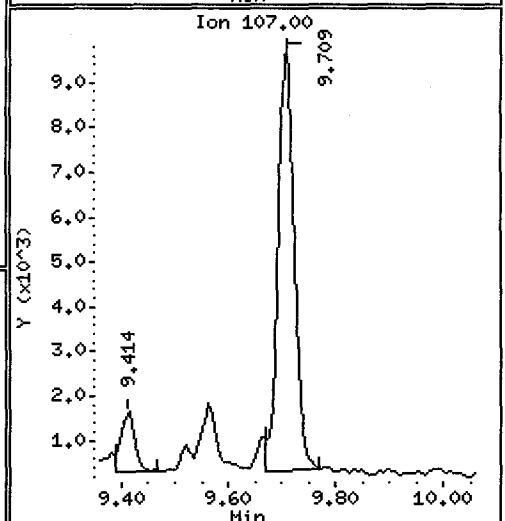
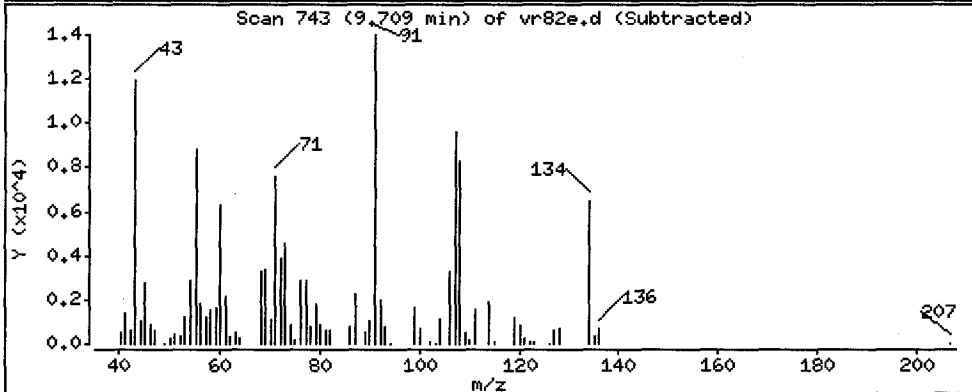
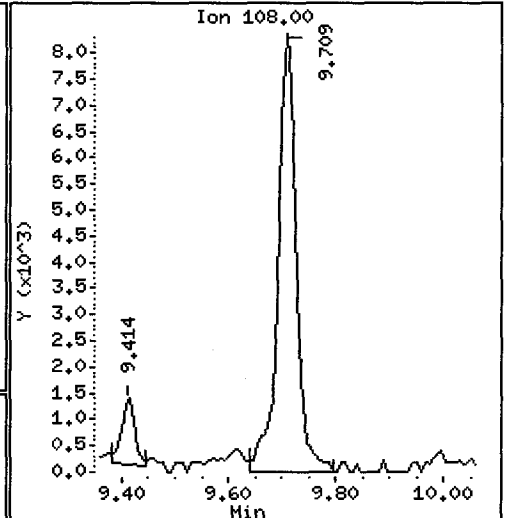
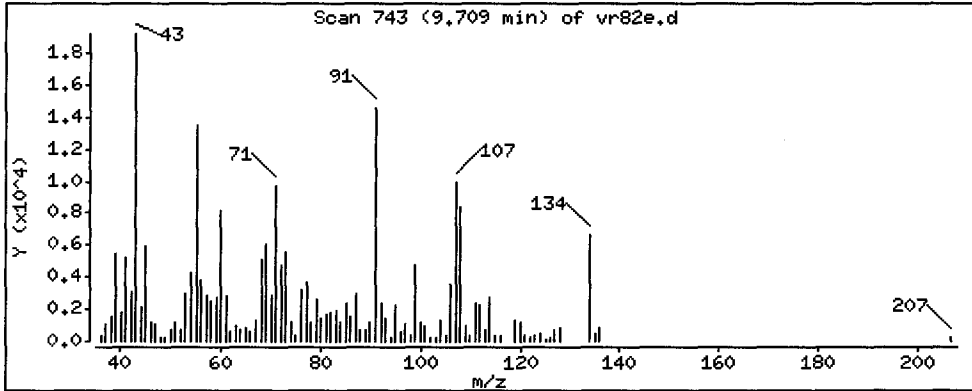
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 90.85 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

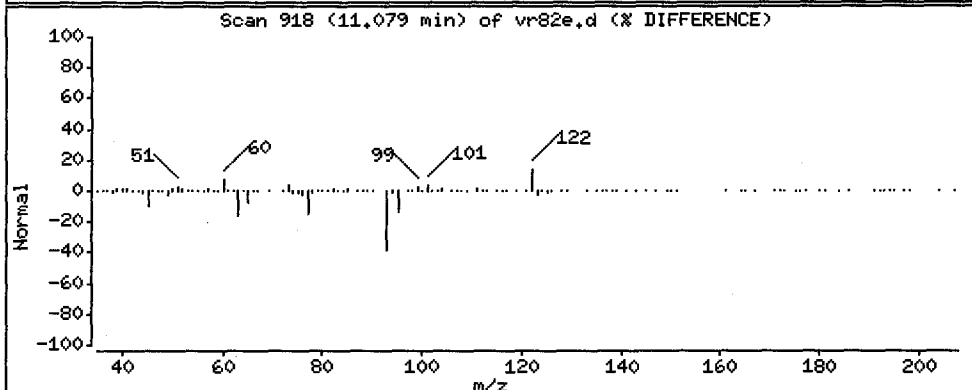
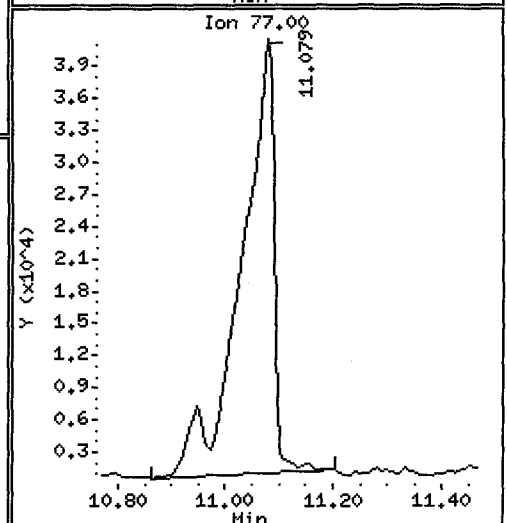
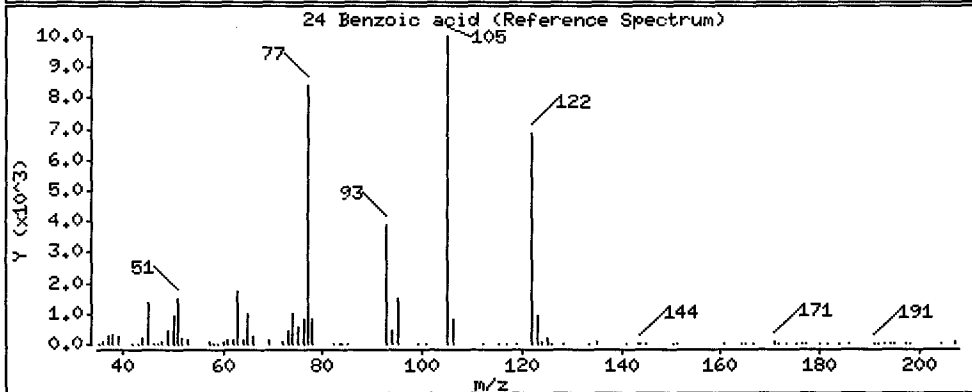
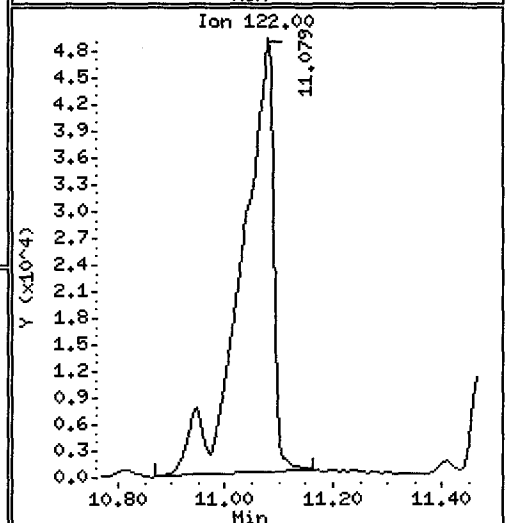
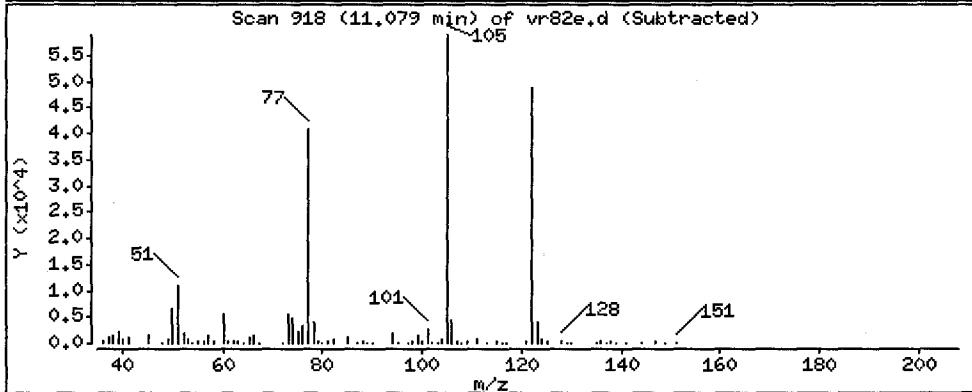
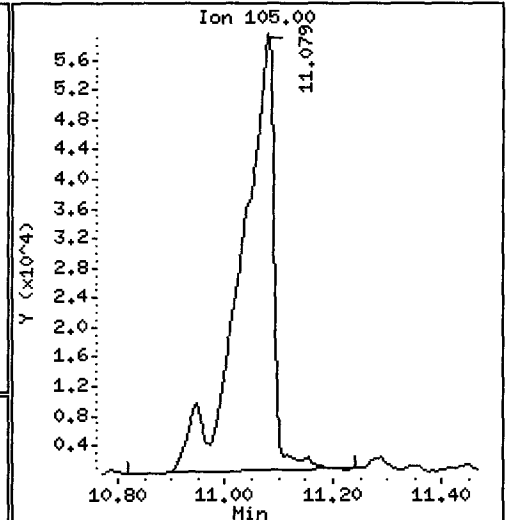
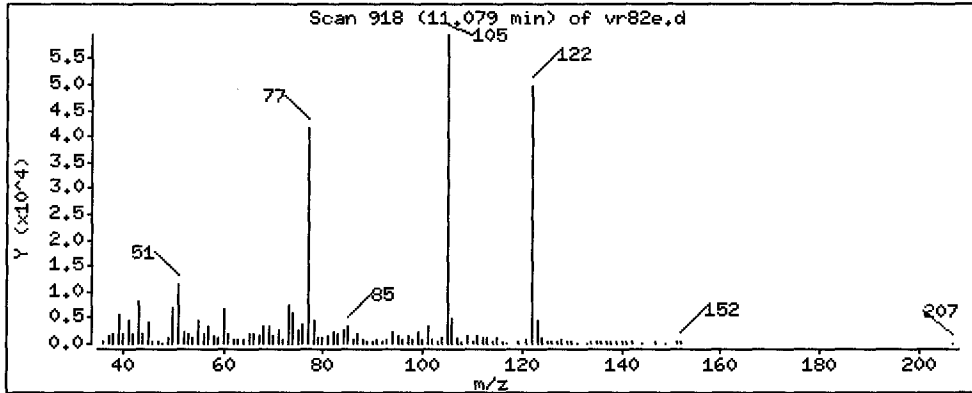
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1143 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

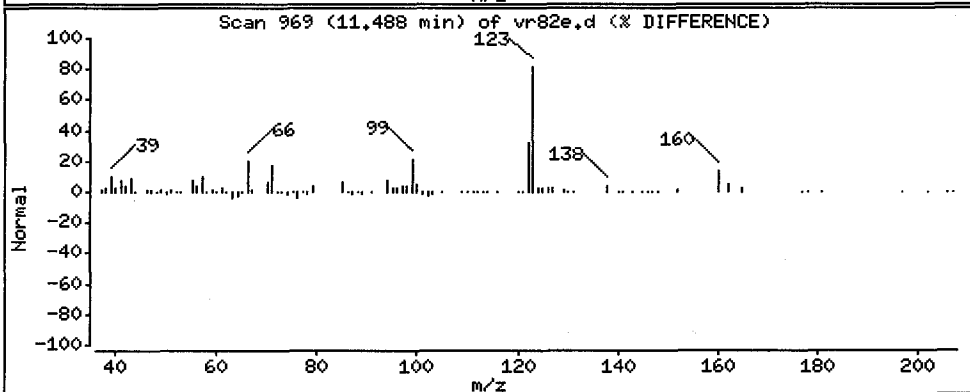
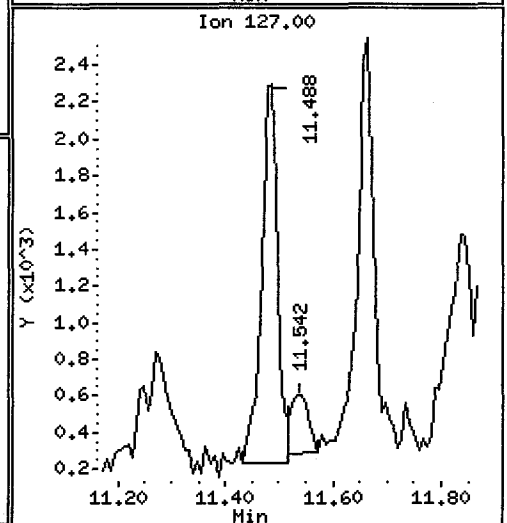
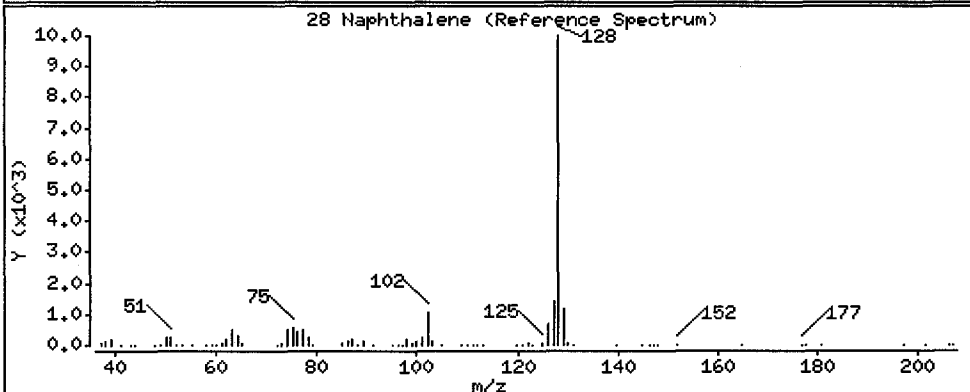
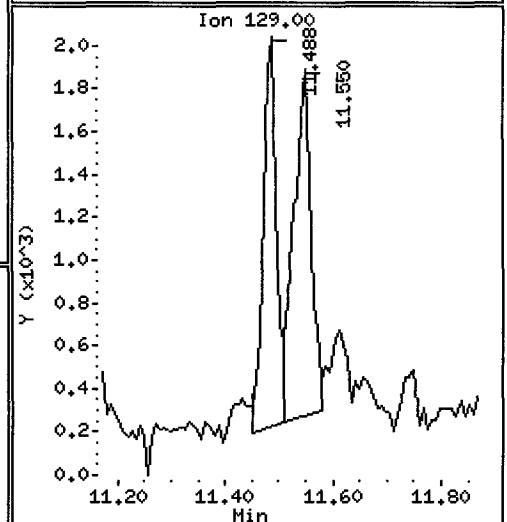
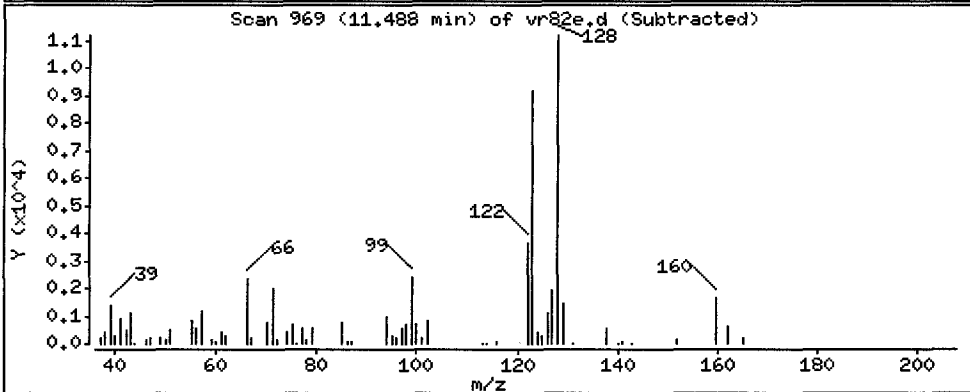
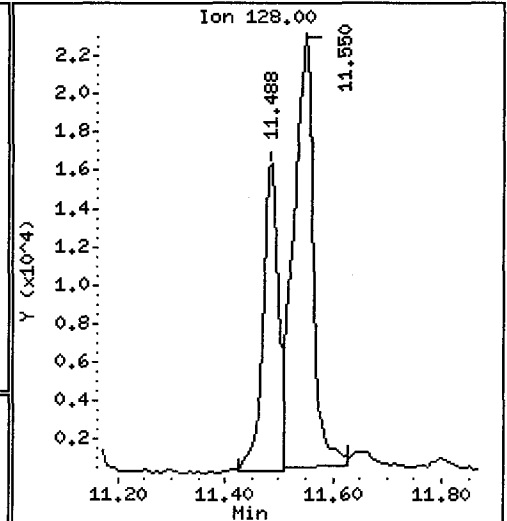
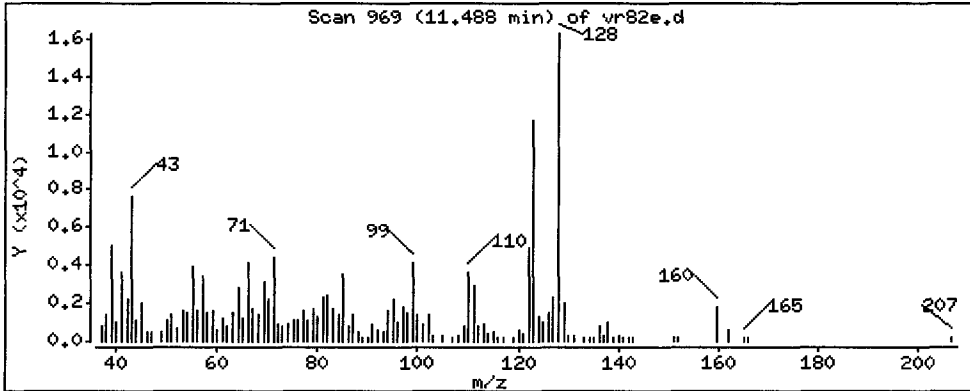
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 37.85 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

Operator: VTS/YZ

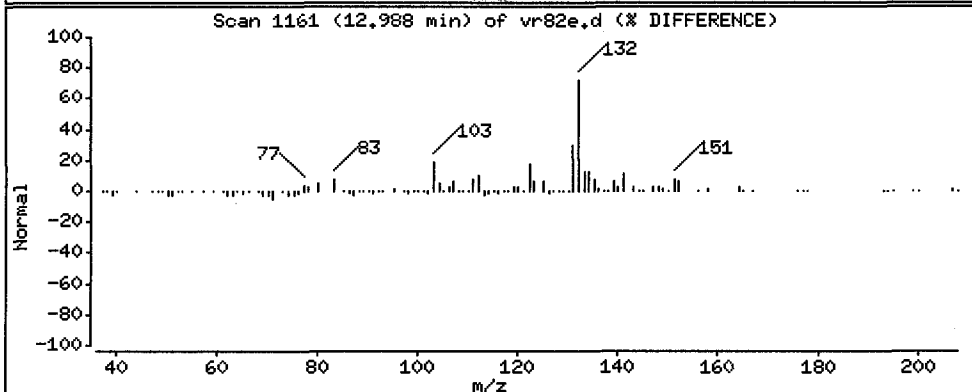
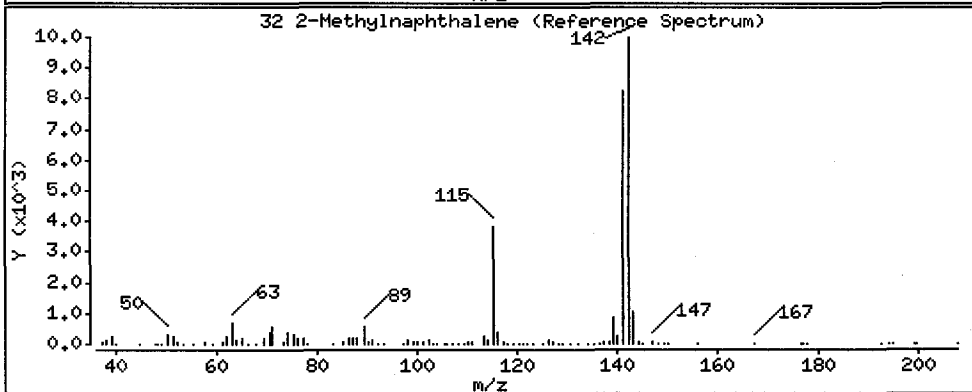
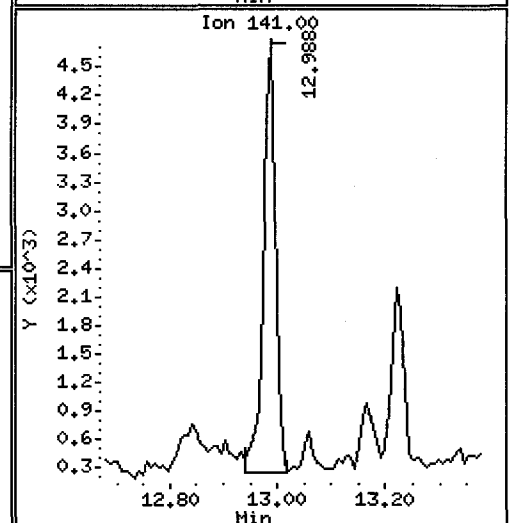
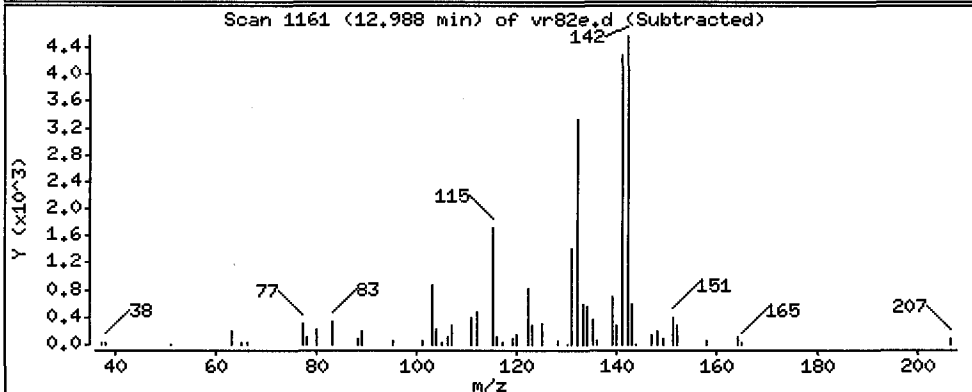
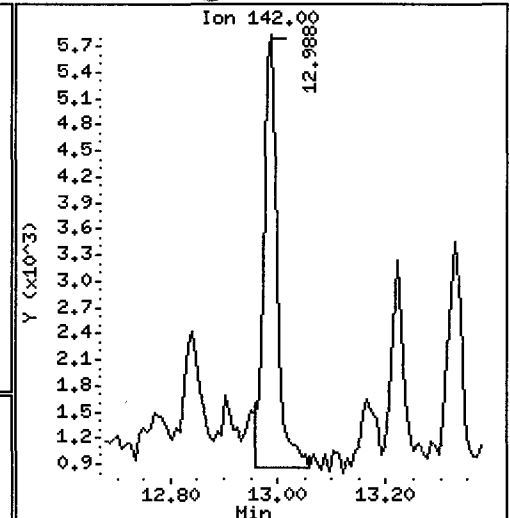
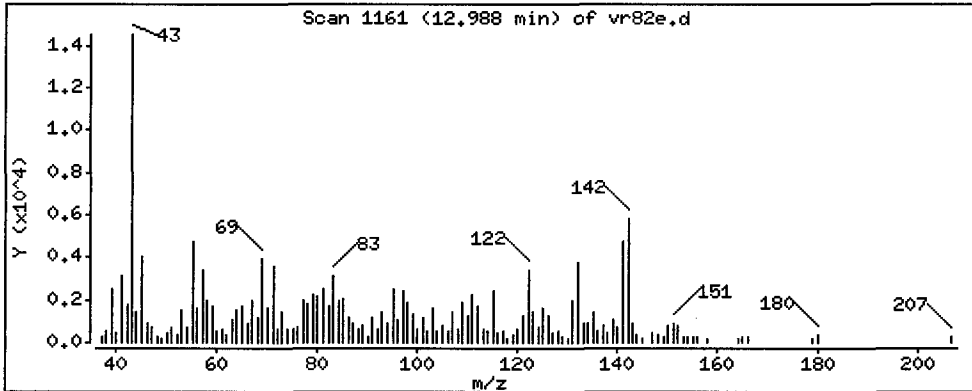
Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 13.33 ug/kg

GC



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

Operator: VTS/YZ

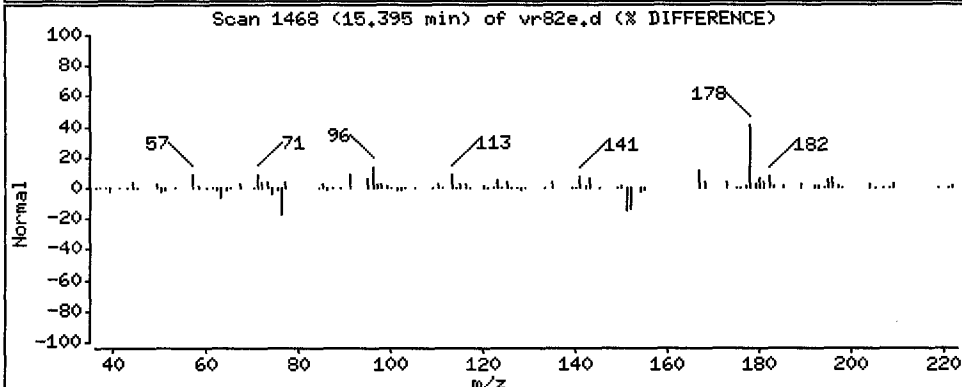
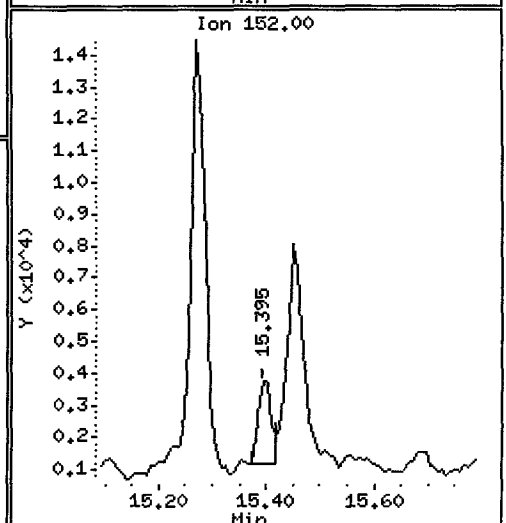
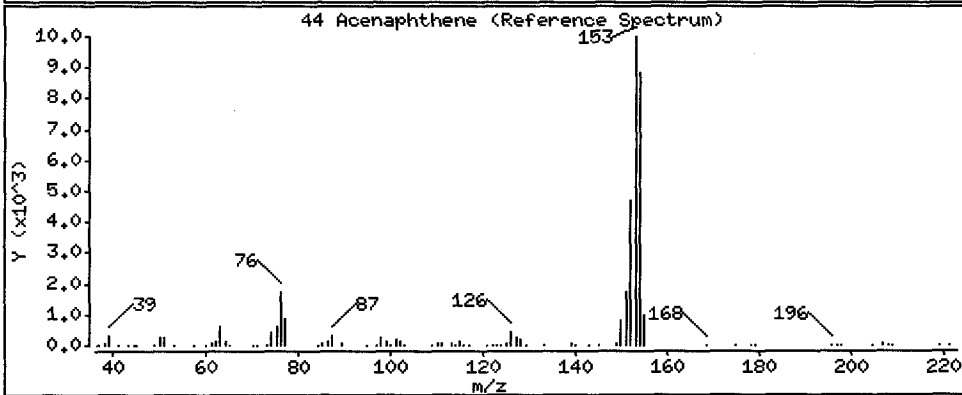
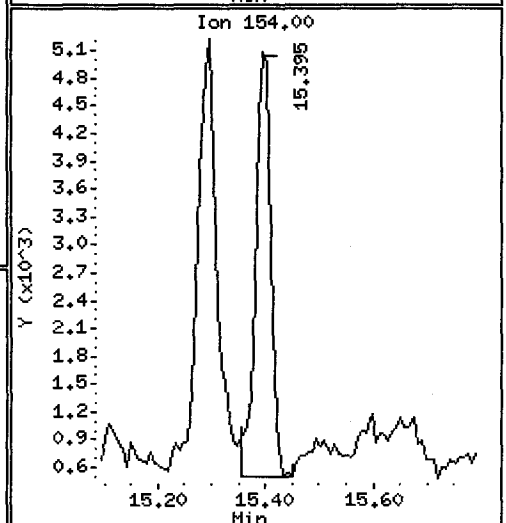
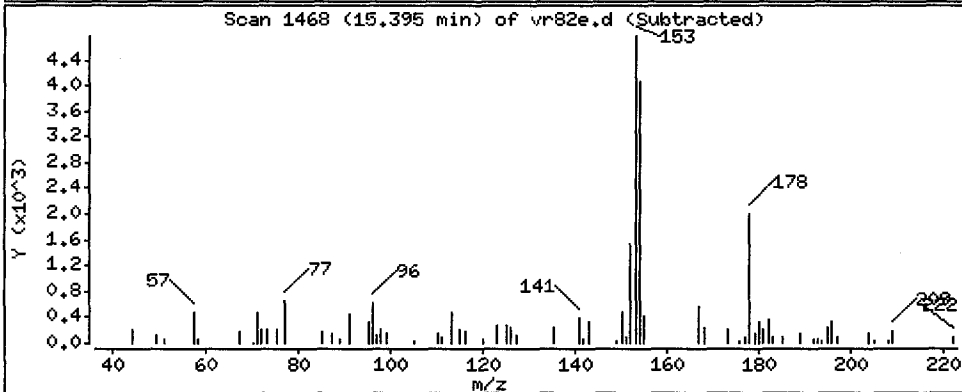
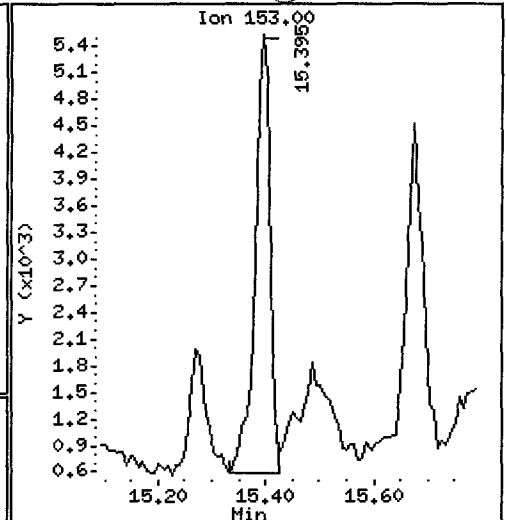
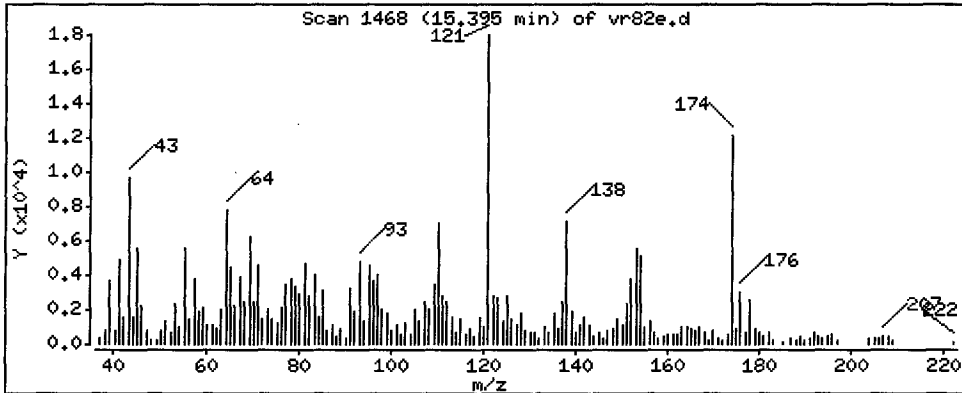
Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 16.84 ug/kg

Handwritten signature



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

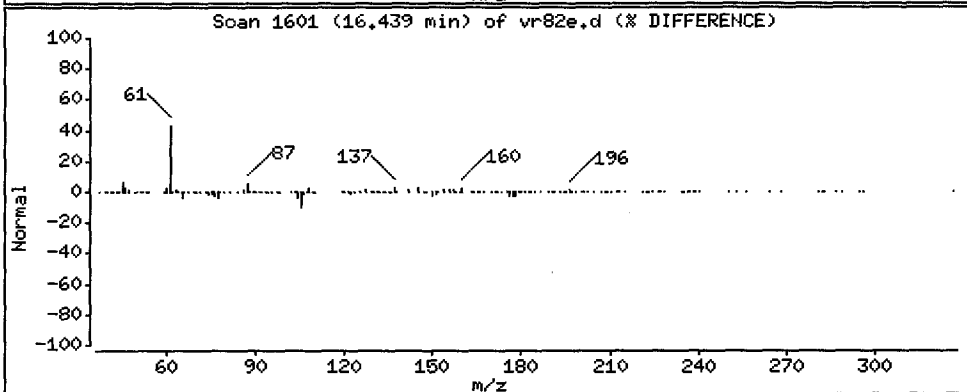
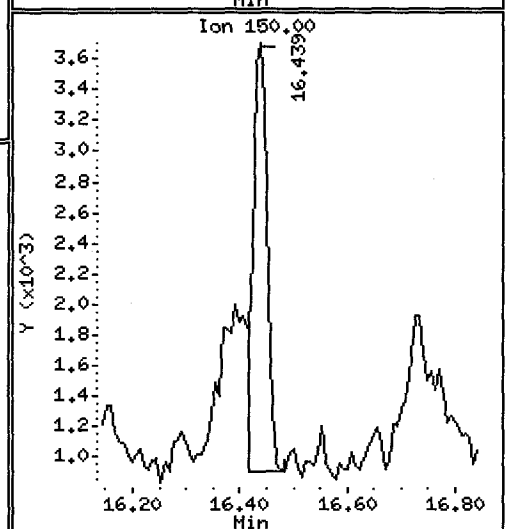
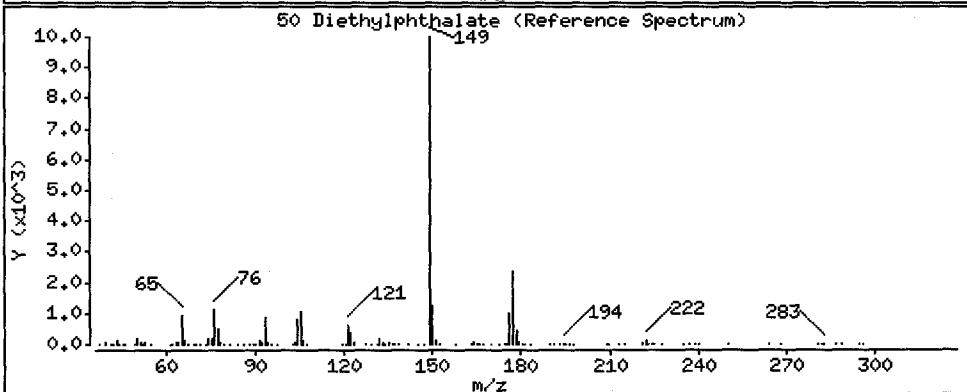
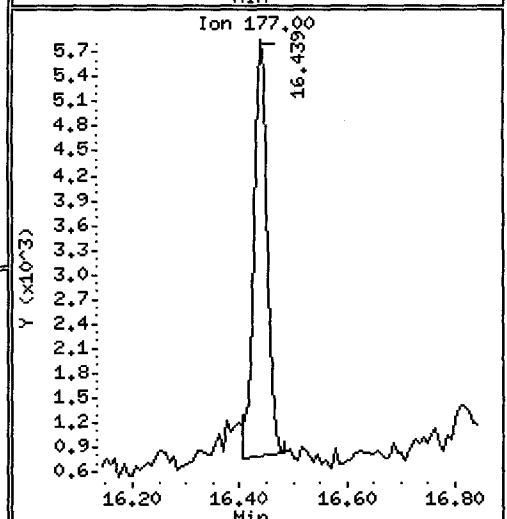
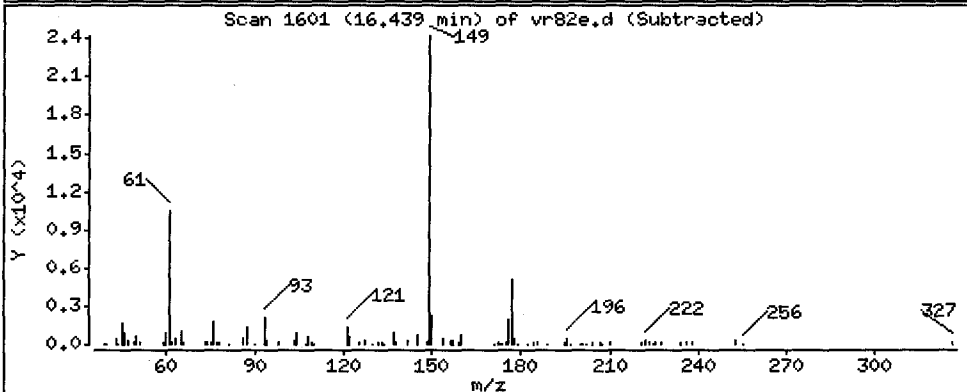
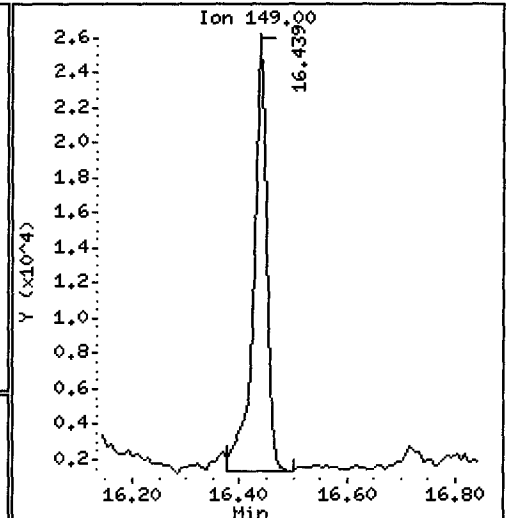
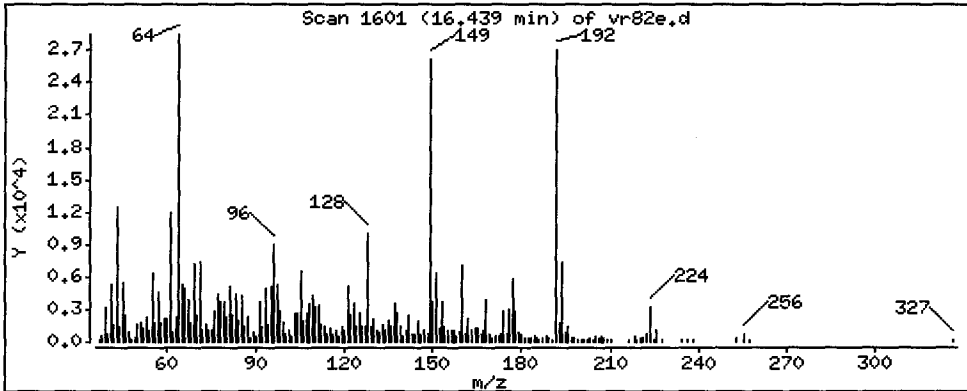
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 57.74 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

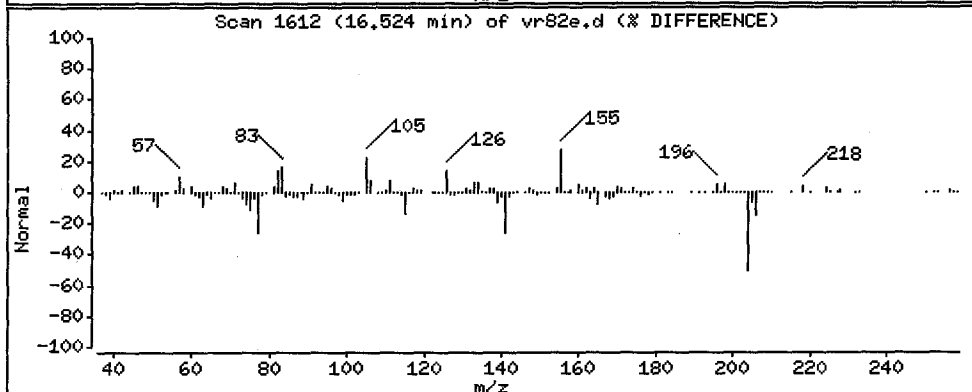
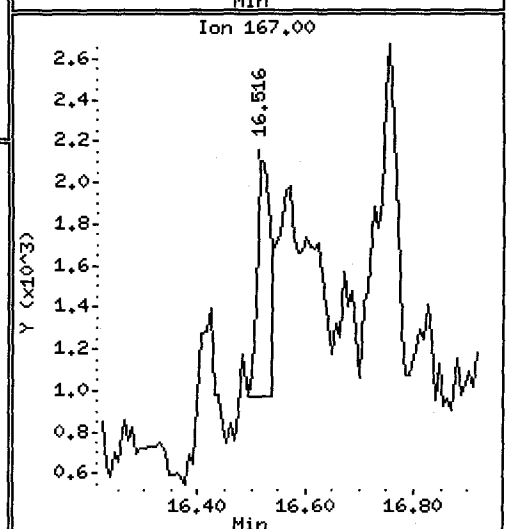
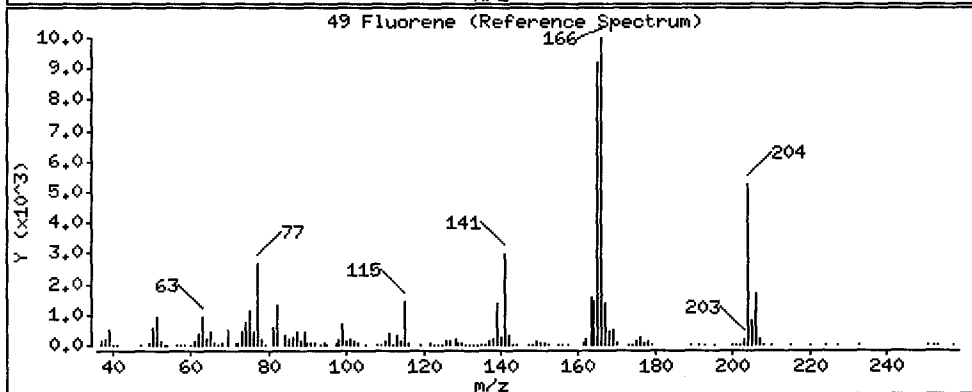
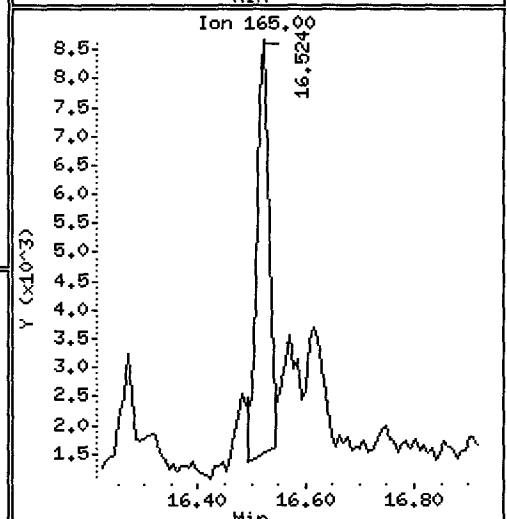
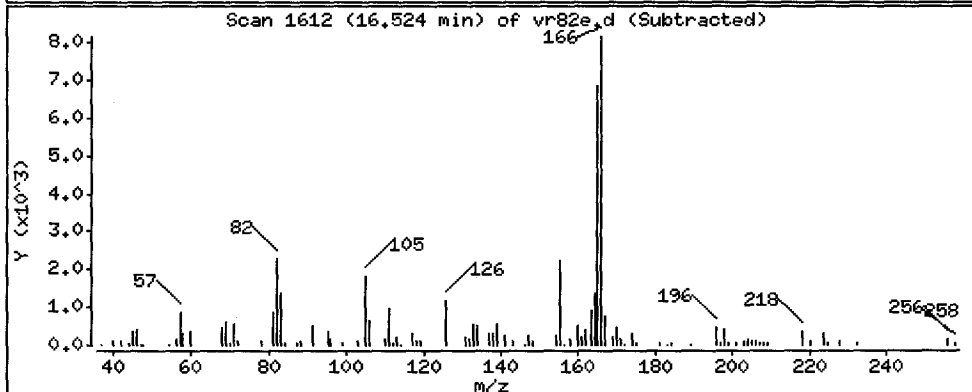
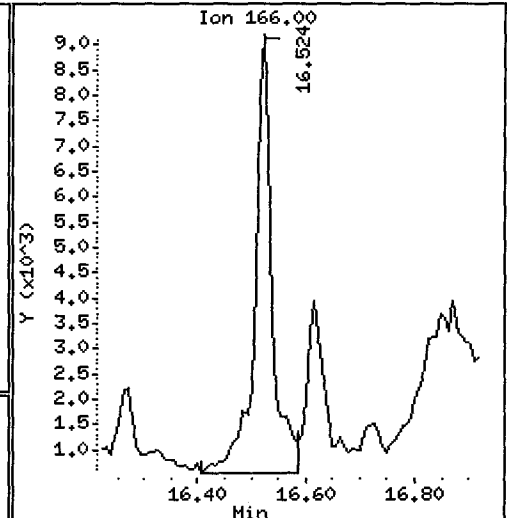
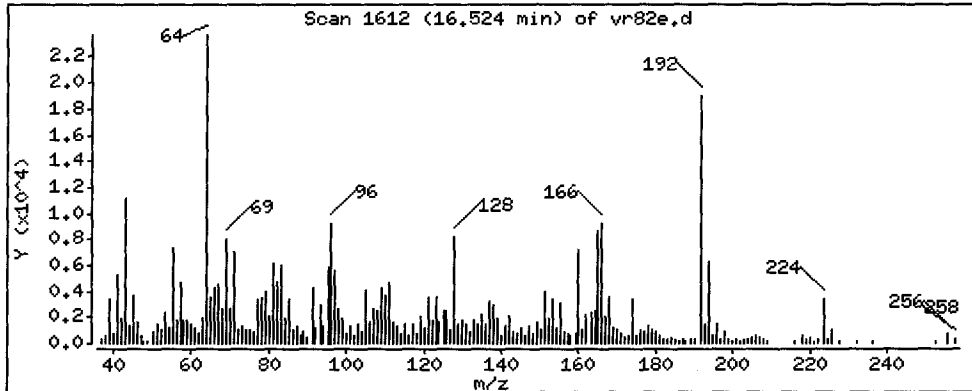
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 26.97 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

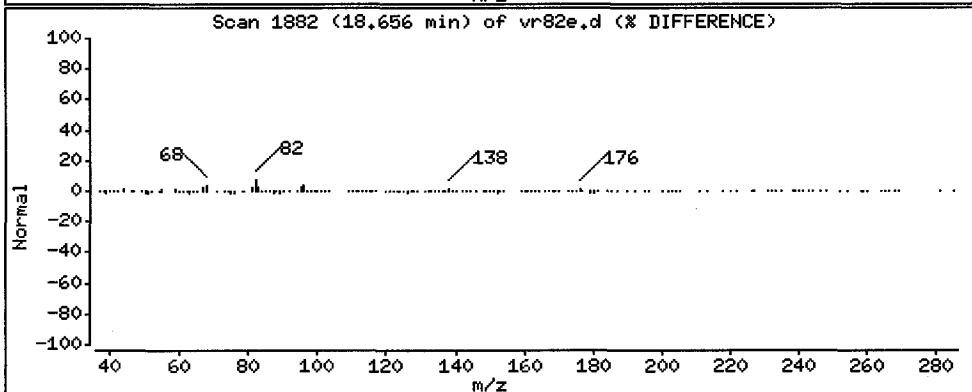
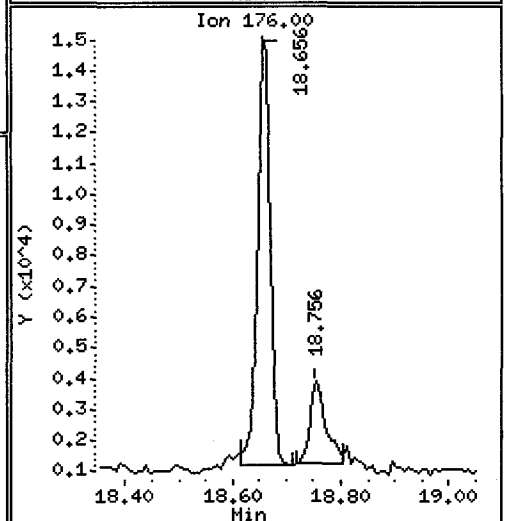
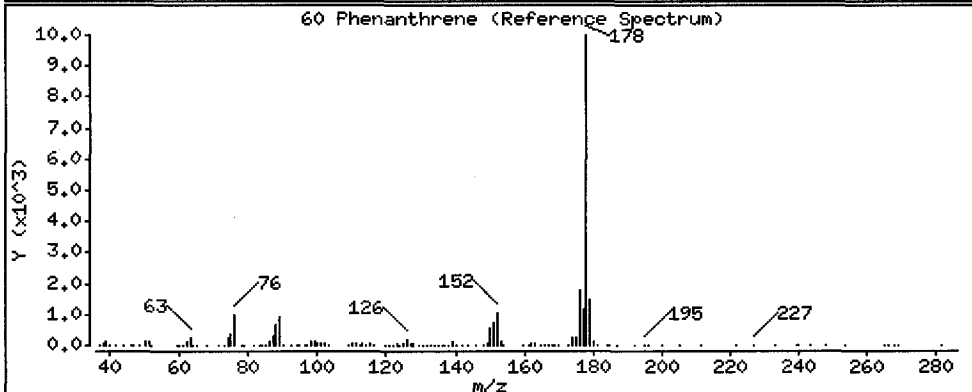
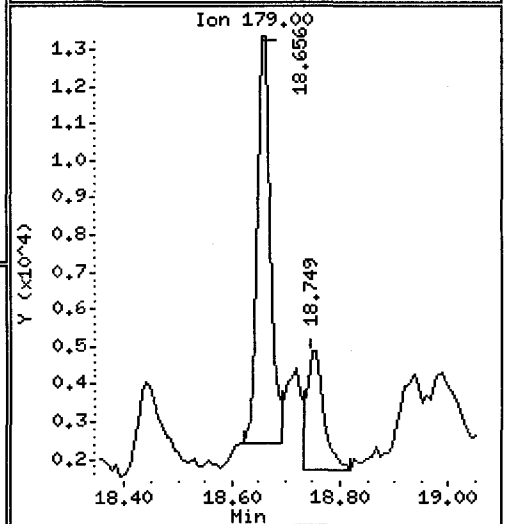
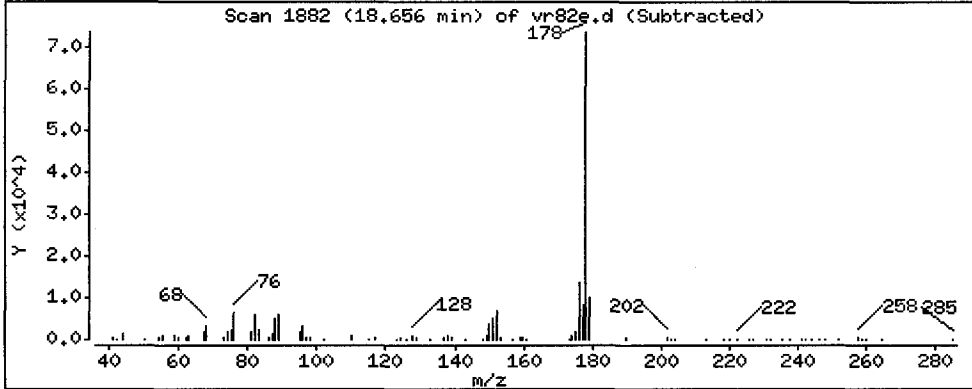
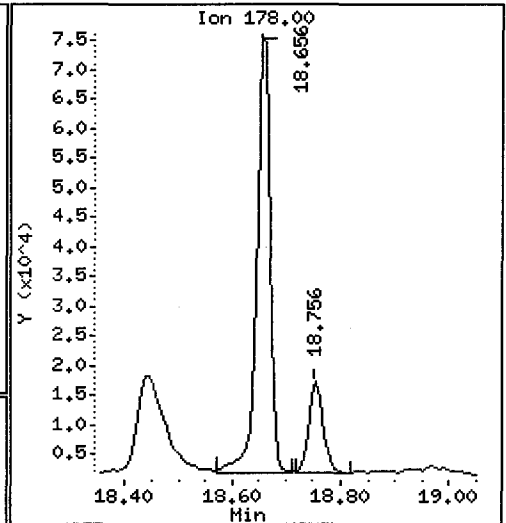
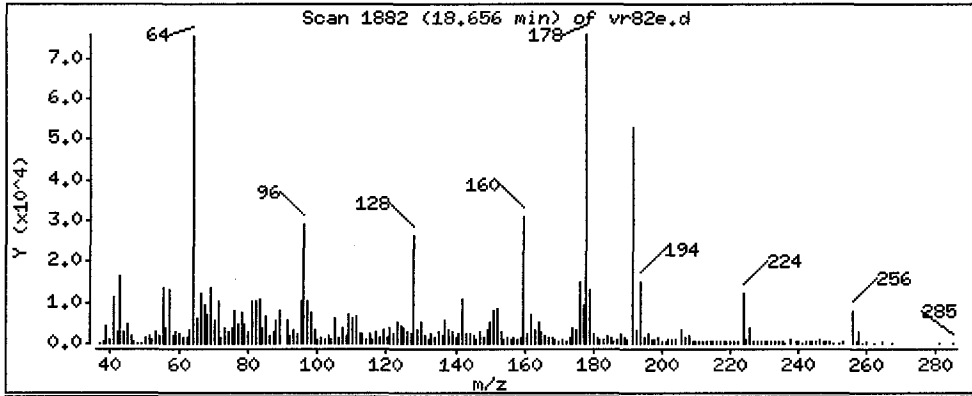
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 144.2 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

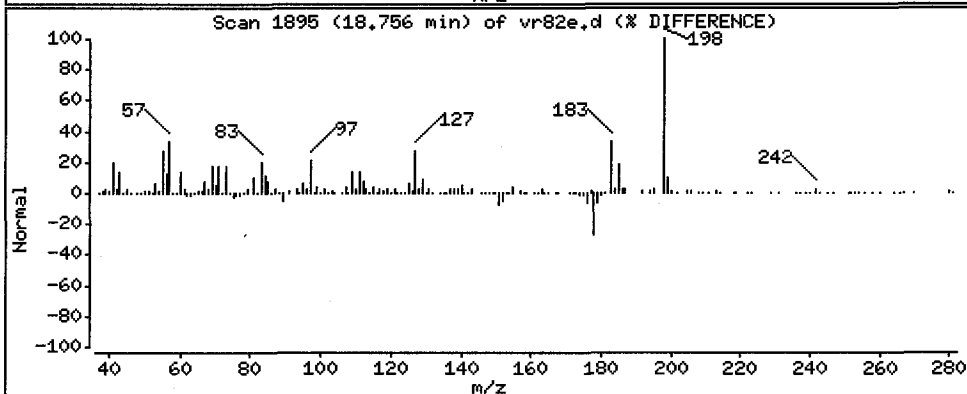
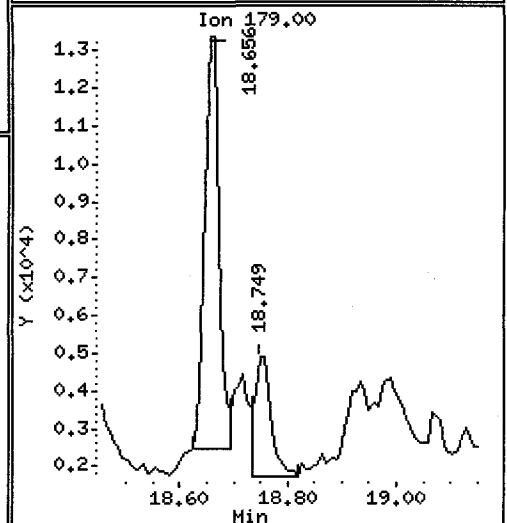
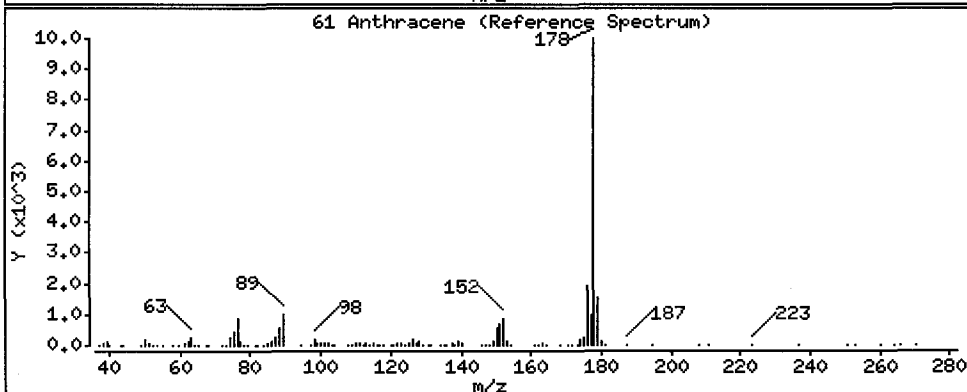
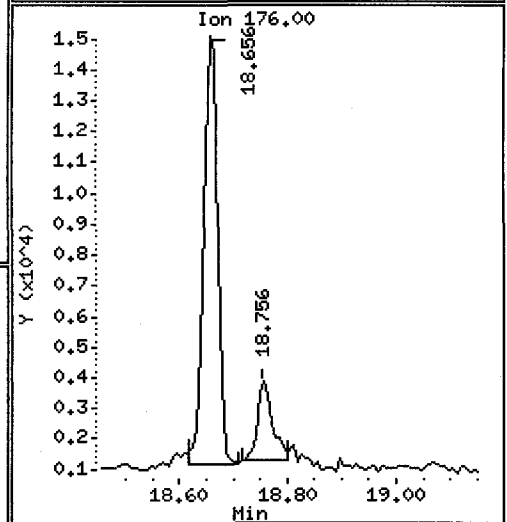
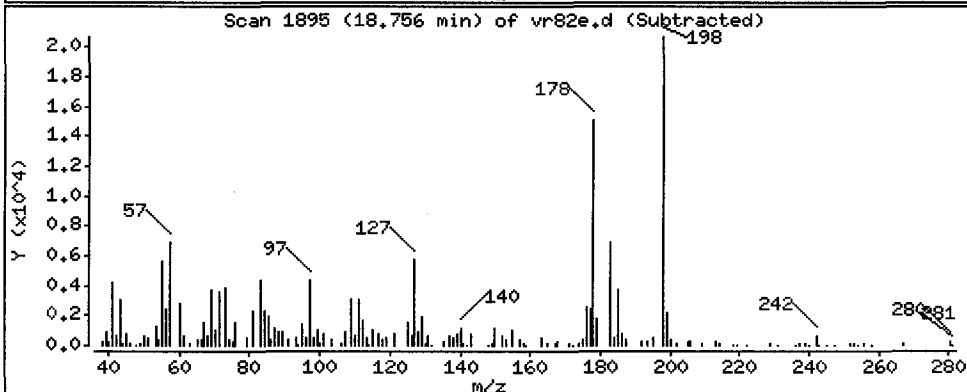
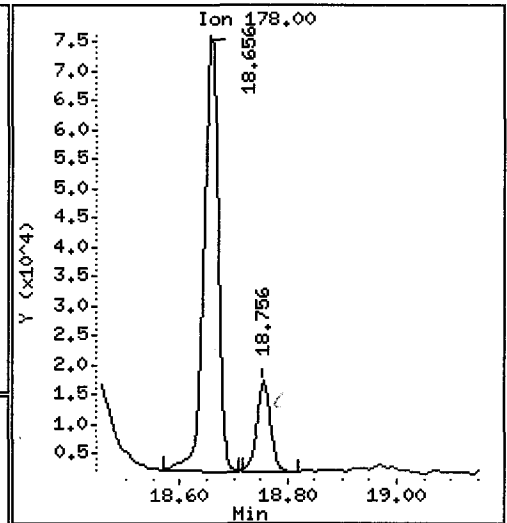
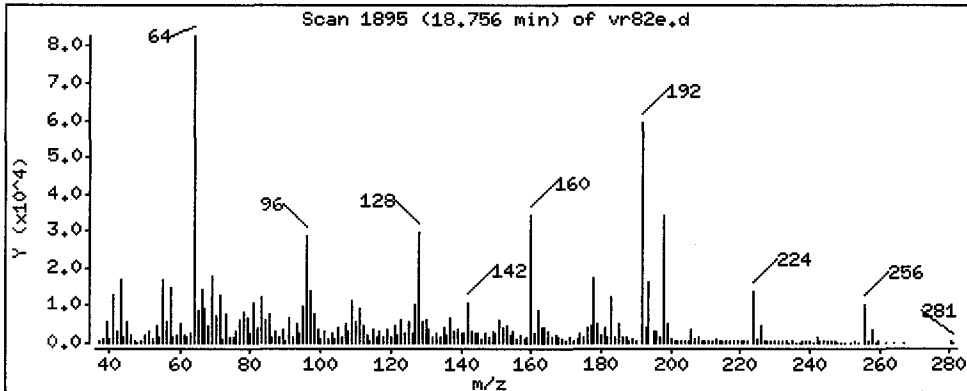
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 28.31 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

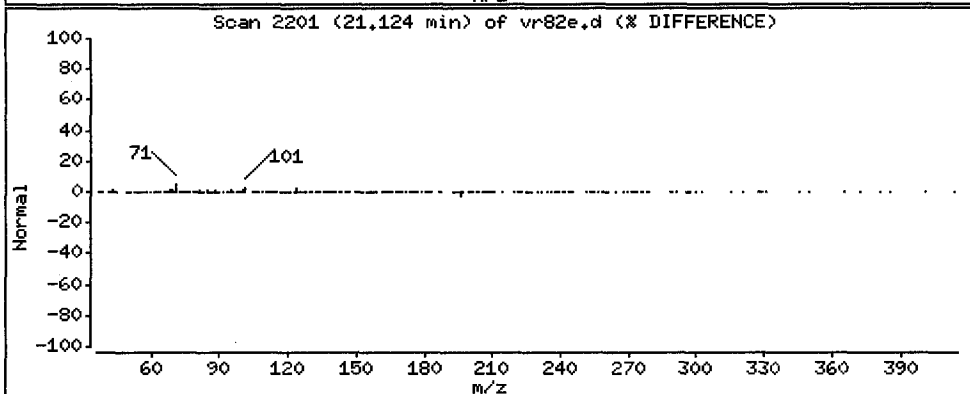
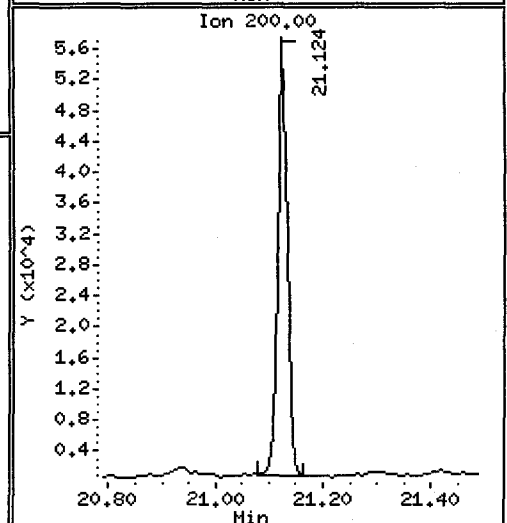
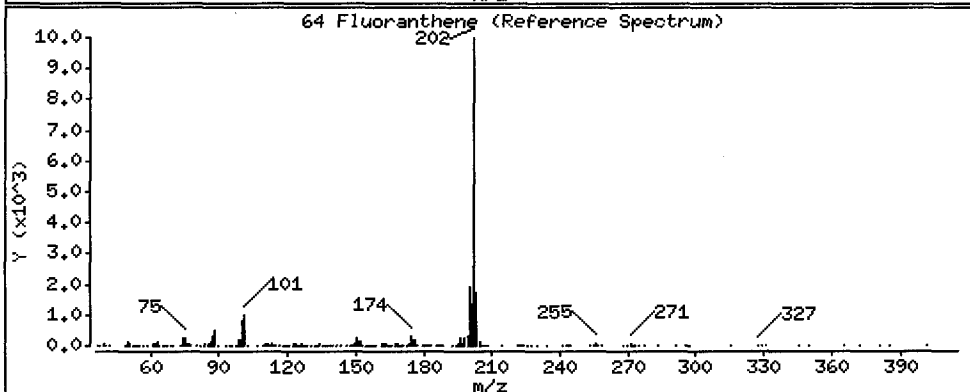
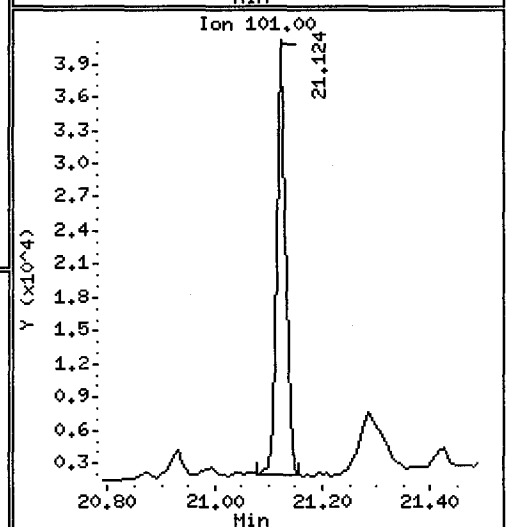
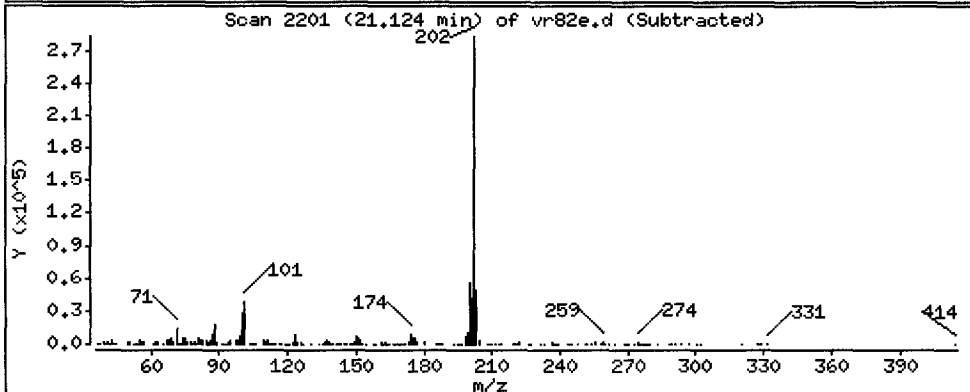
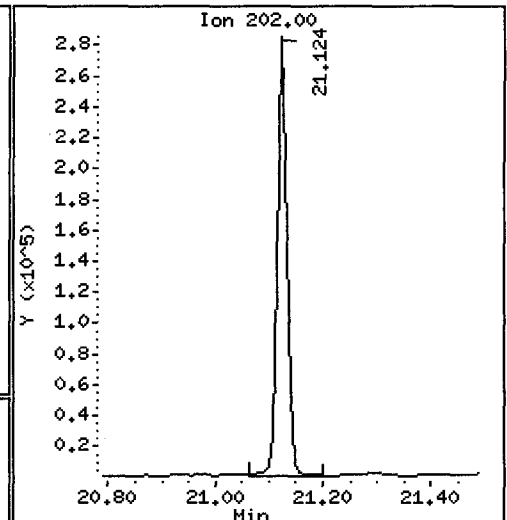
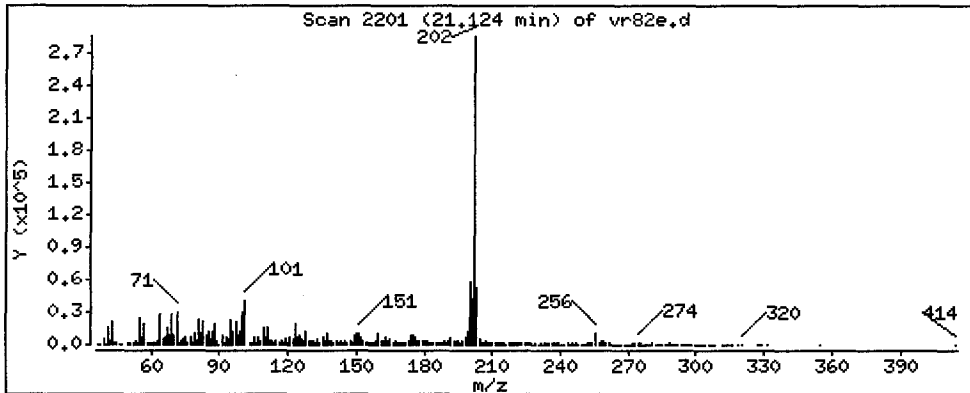
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 290.5 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

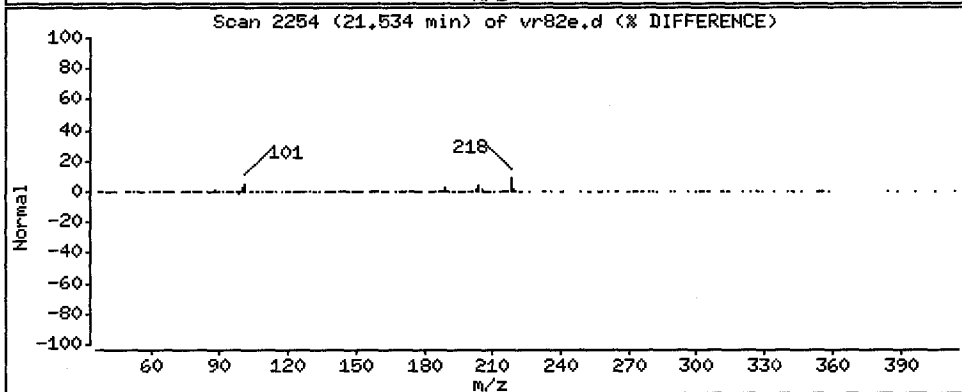
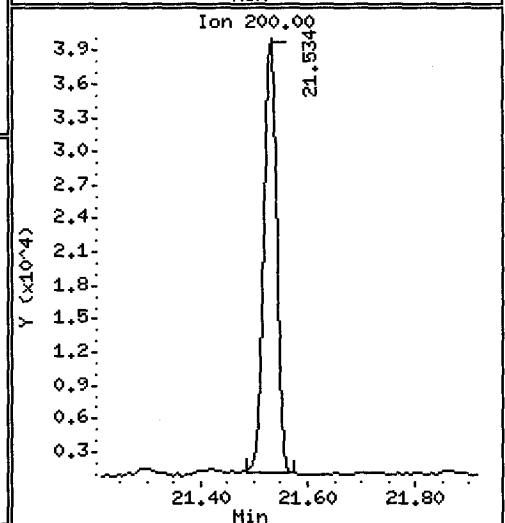
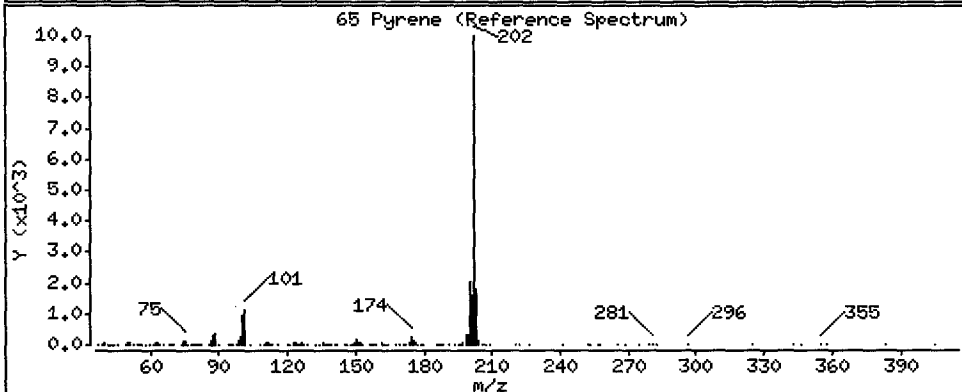
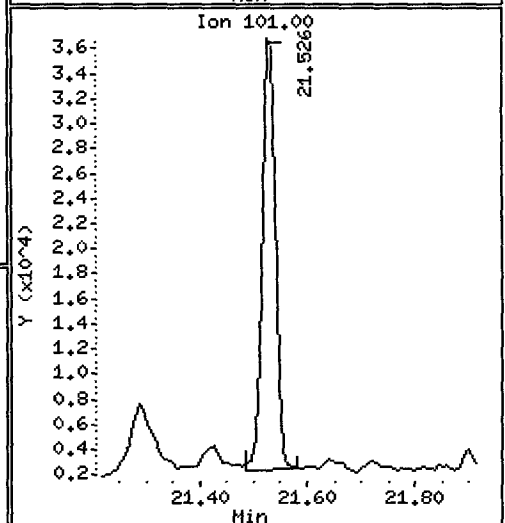
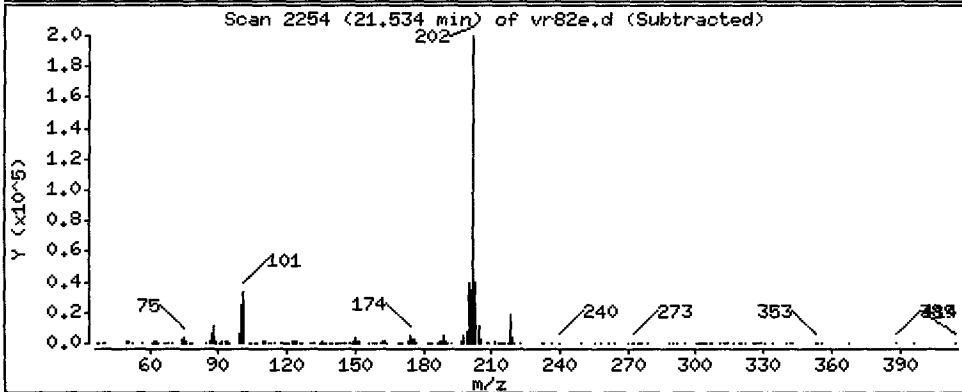
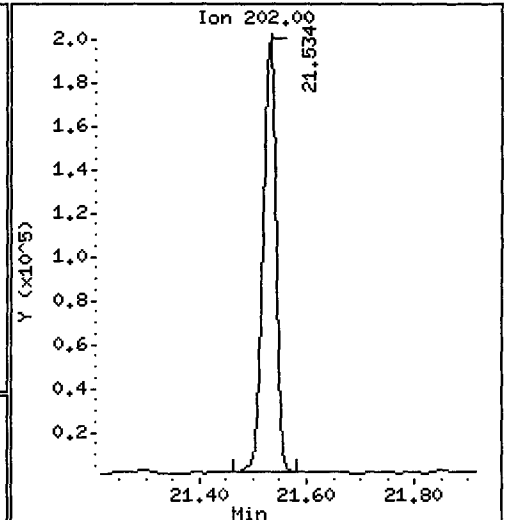
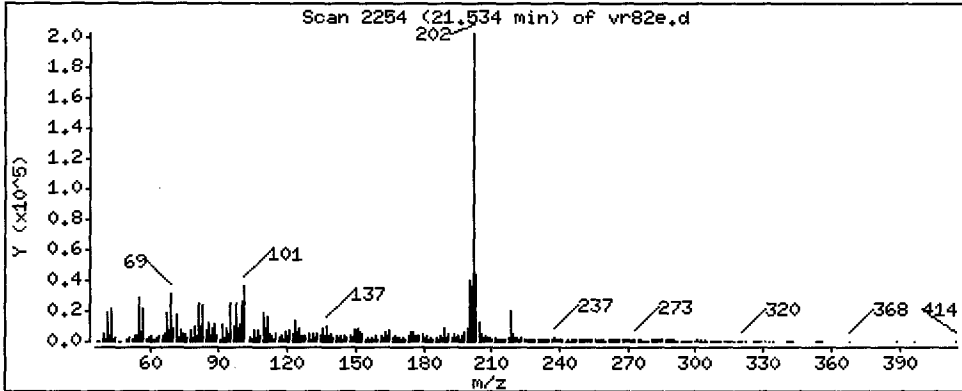
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 298.1 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

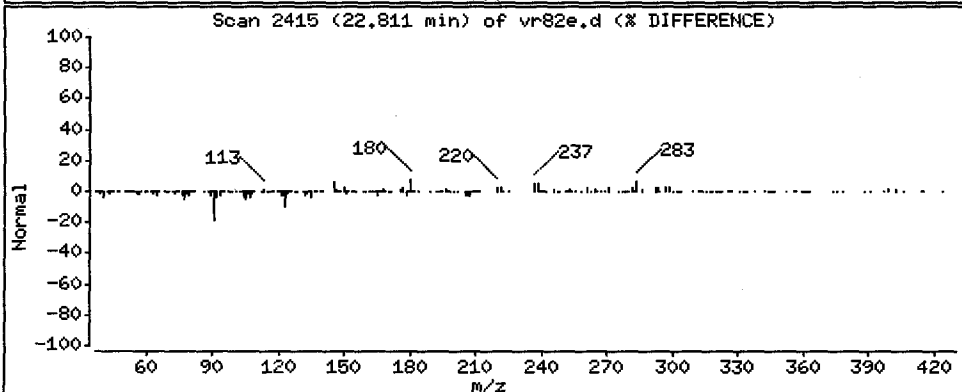
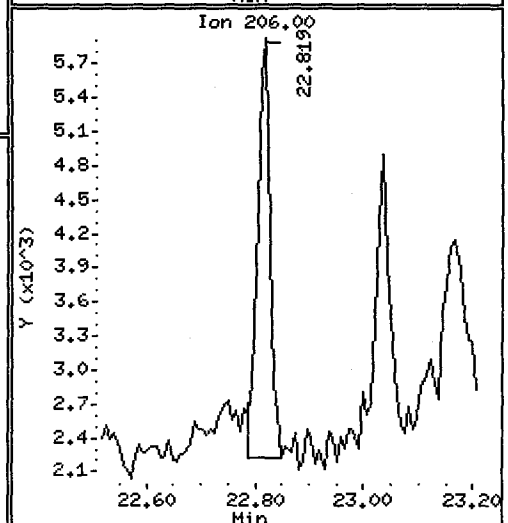
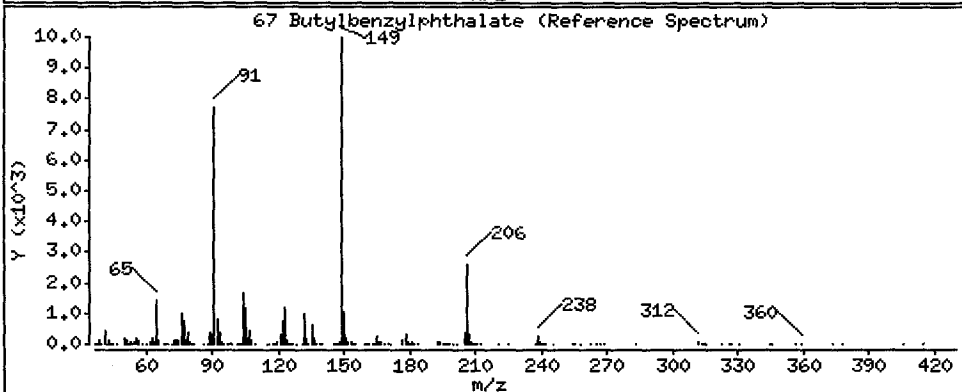
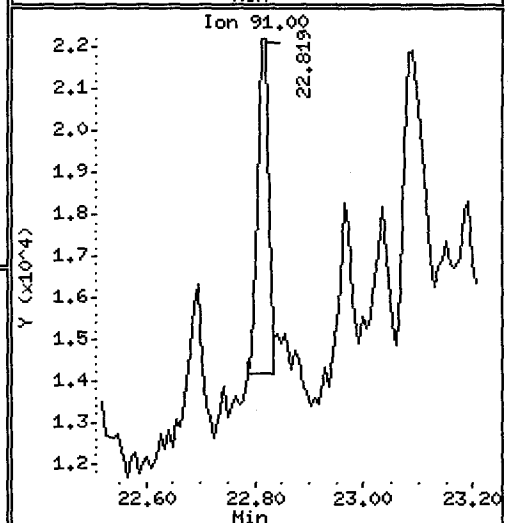
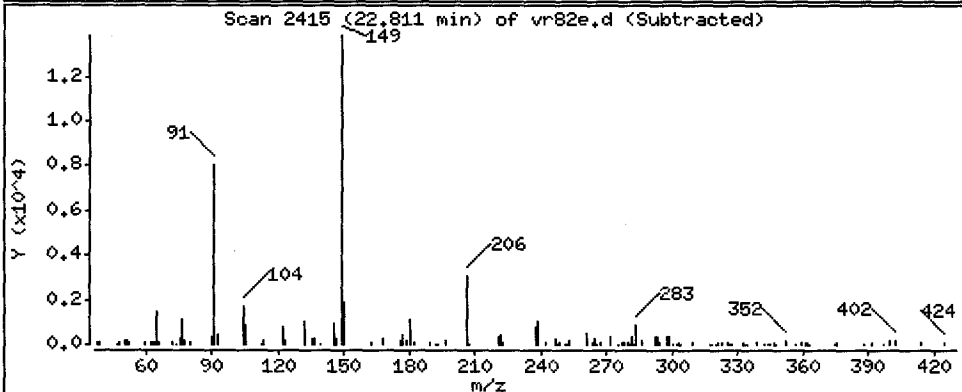
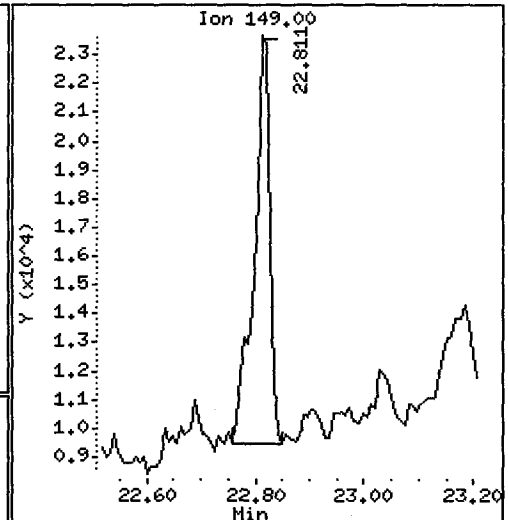
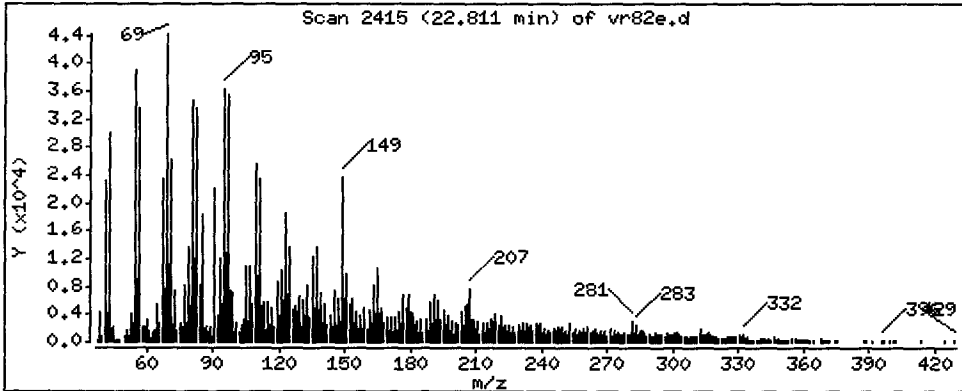
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 57.14 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

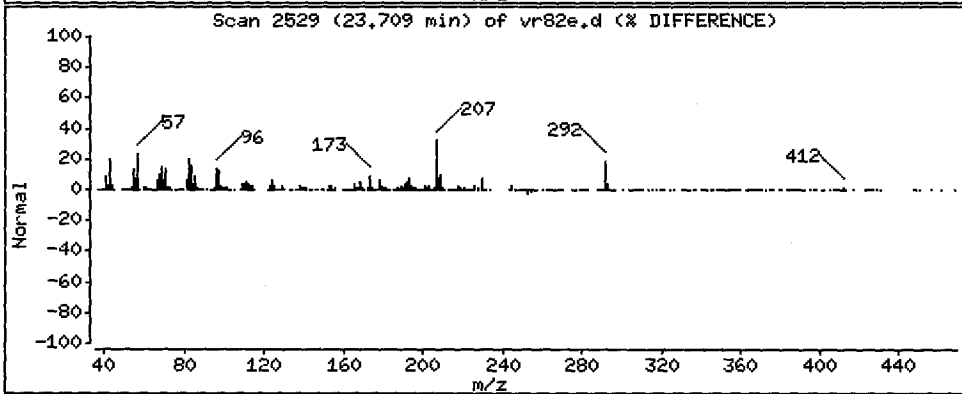
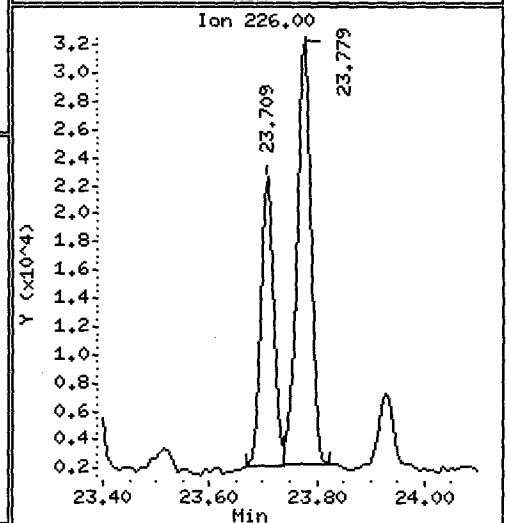
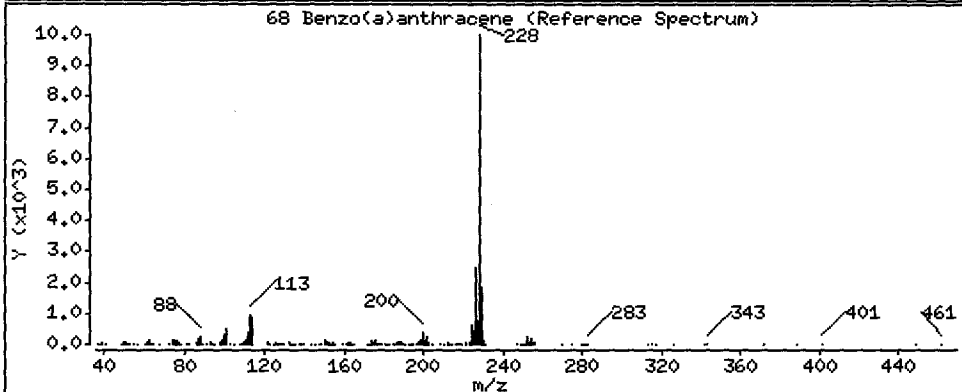
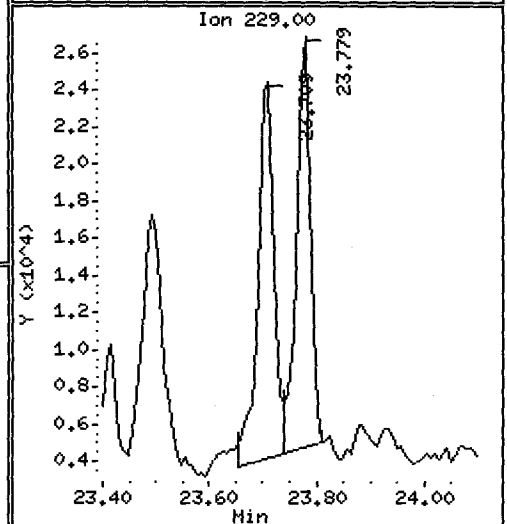
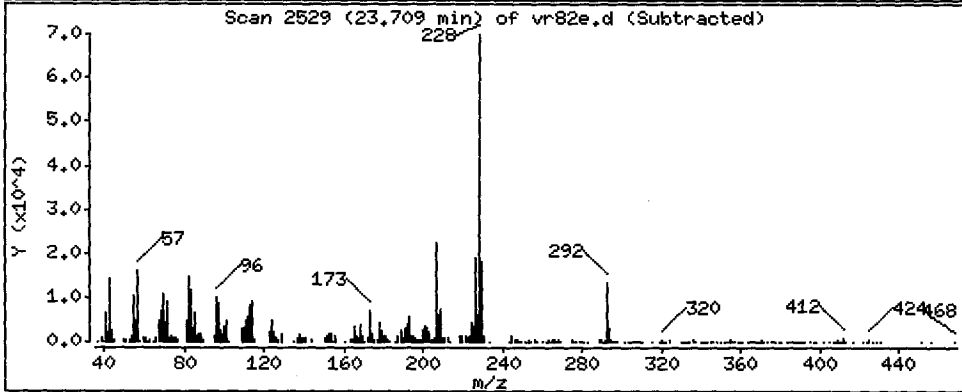
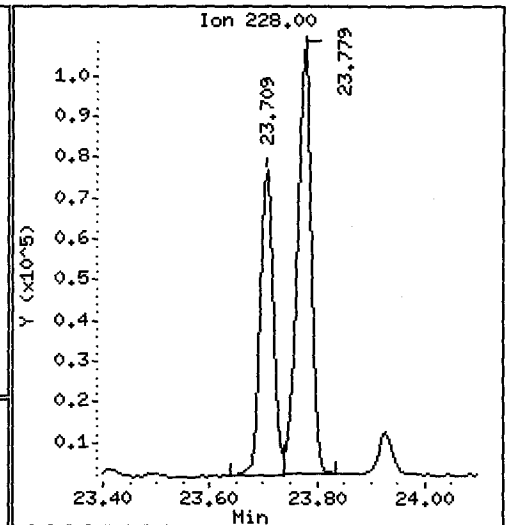
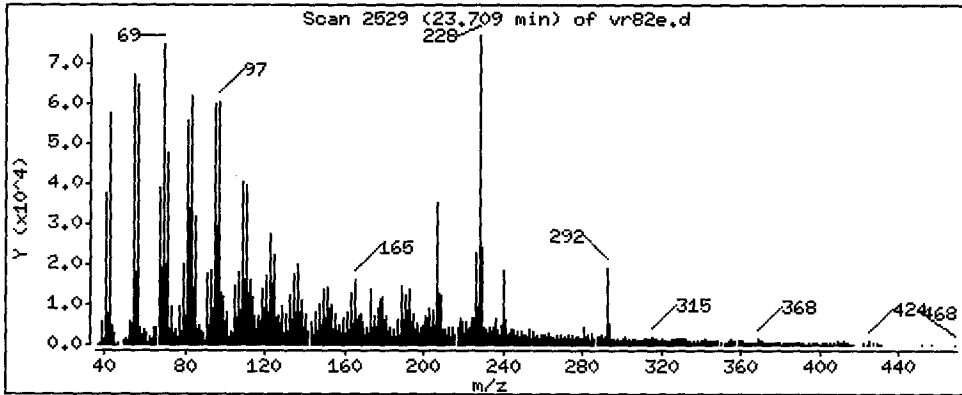
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 114.1 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

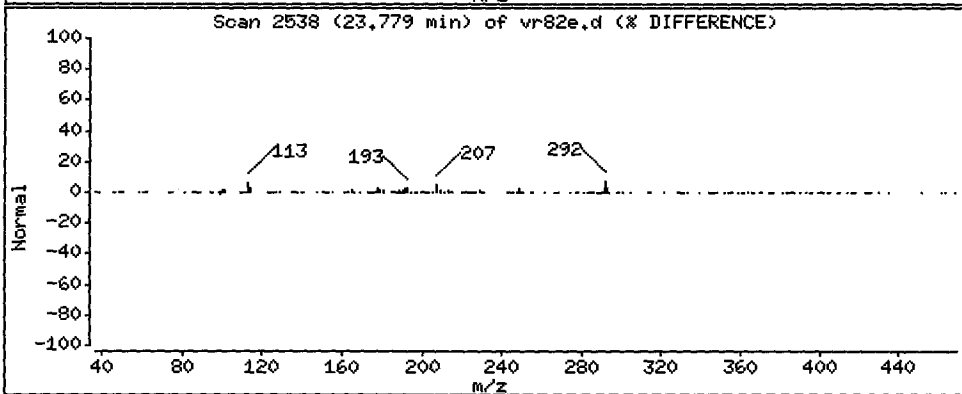
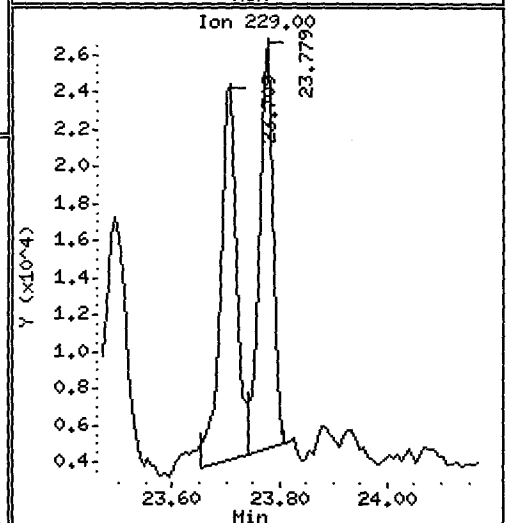
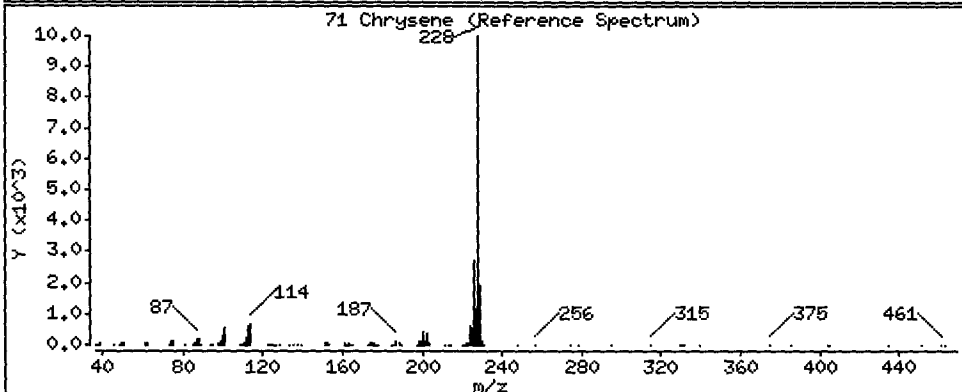
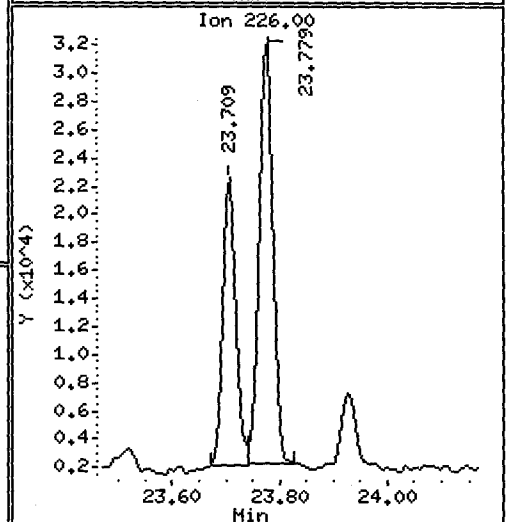
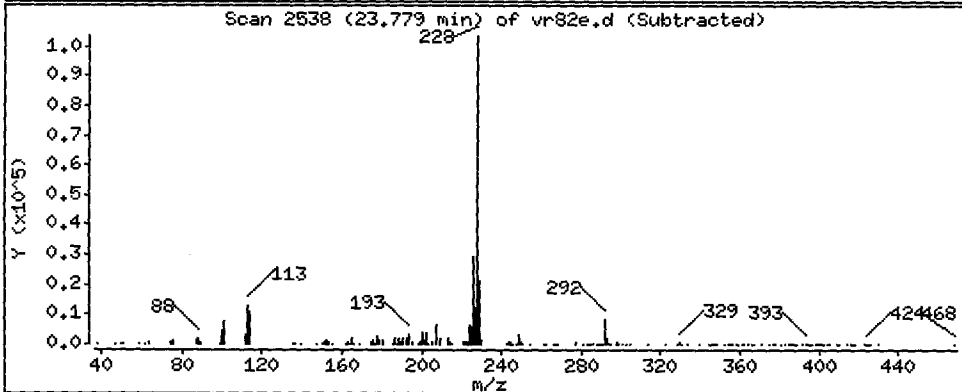
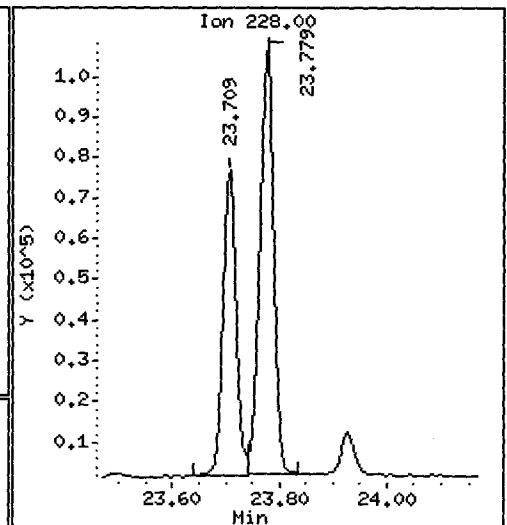
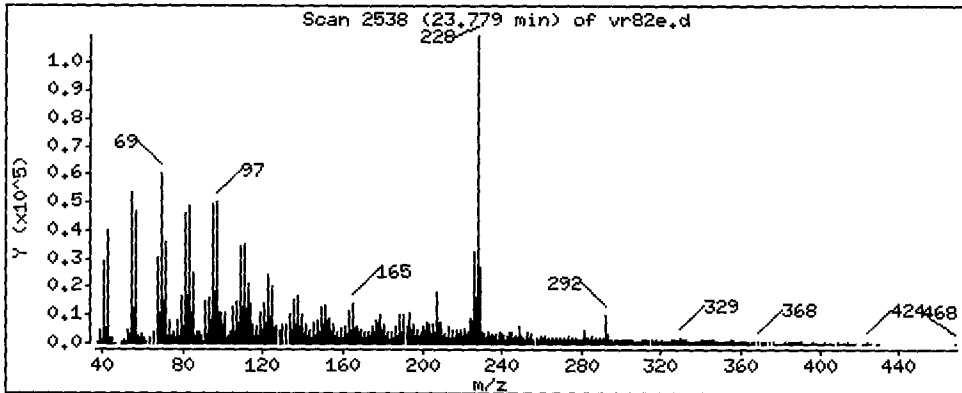
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 186.4 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

Operator: VTS/YZ

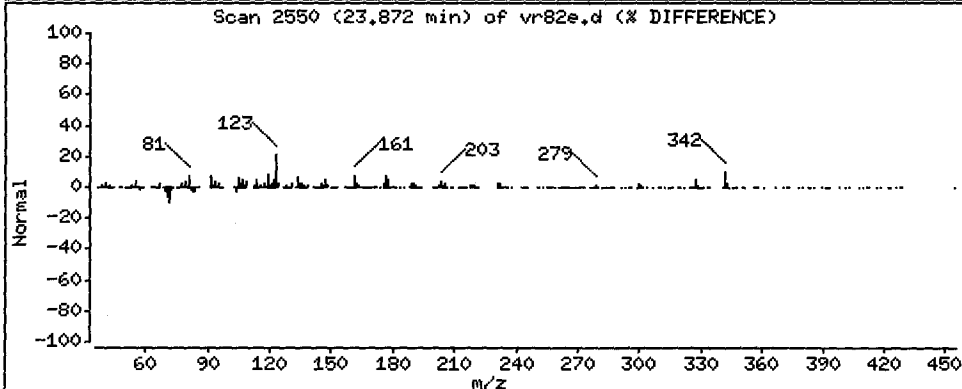
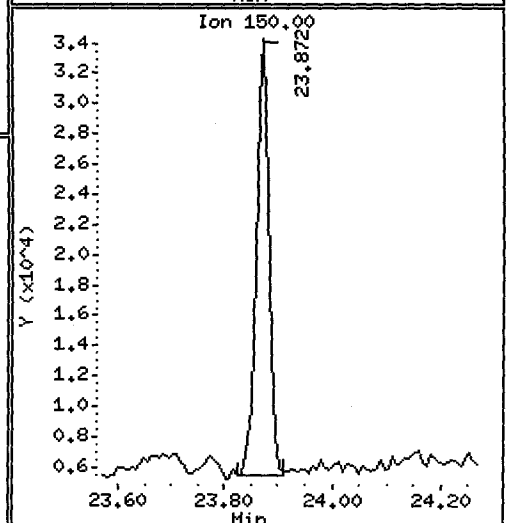
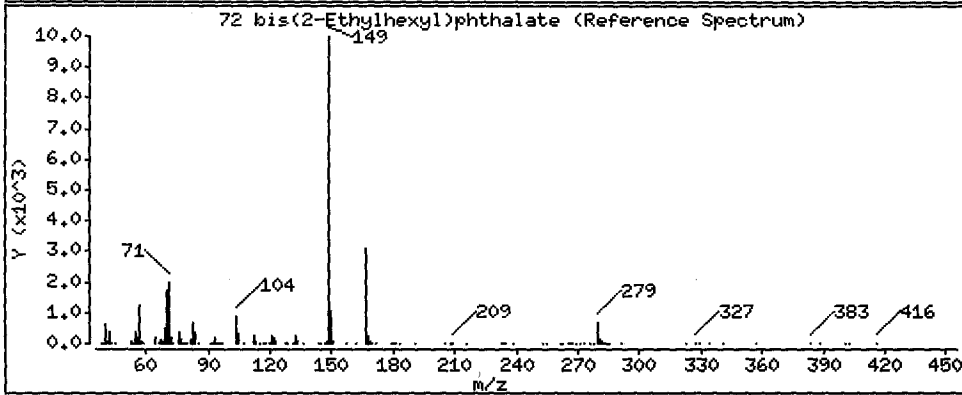
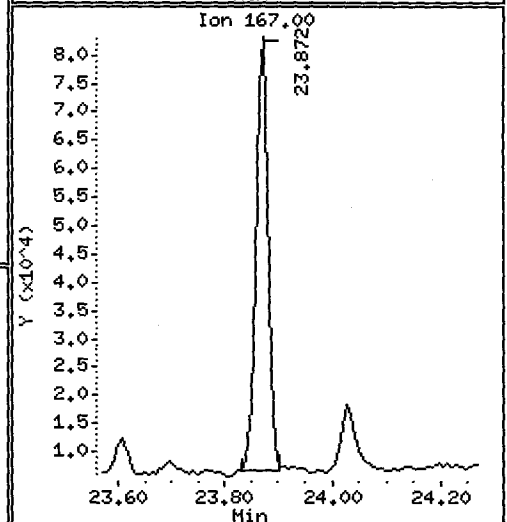
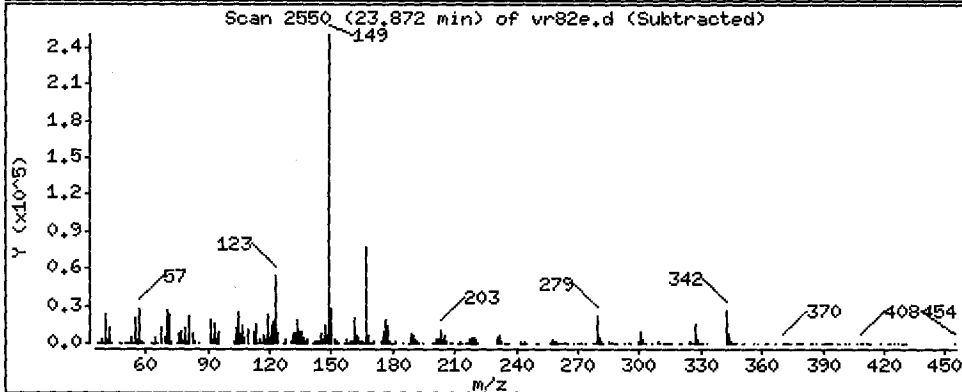
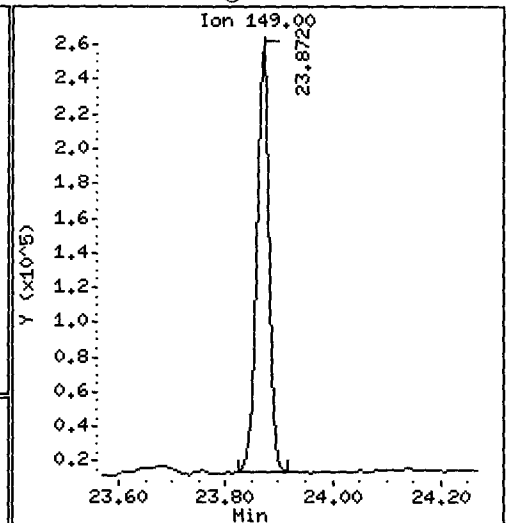
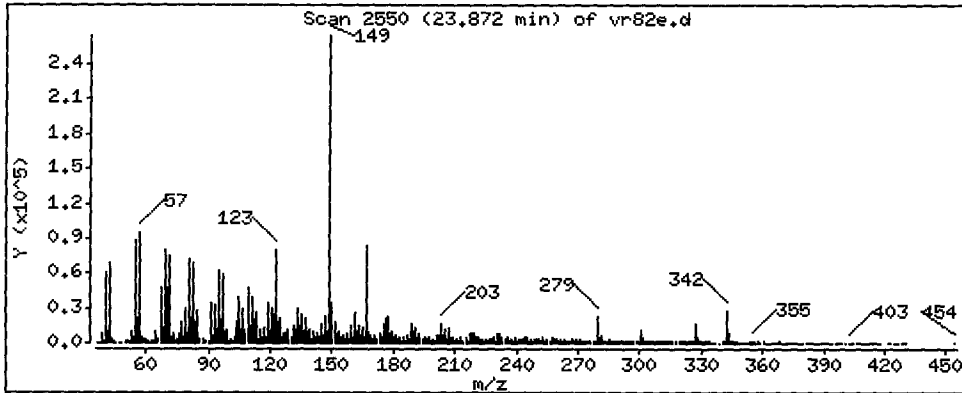
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 537.2 ug/kg

6



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

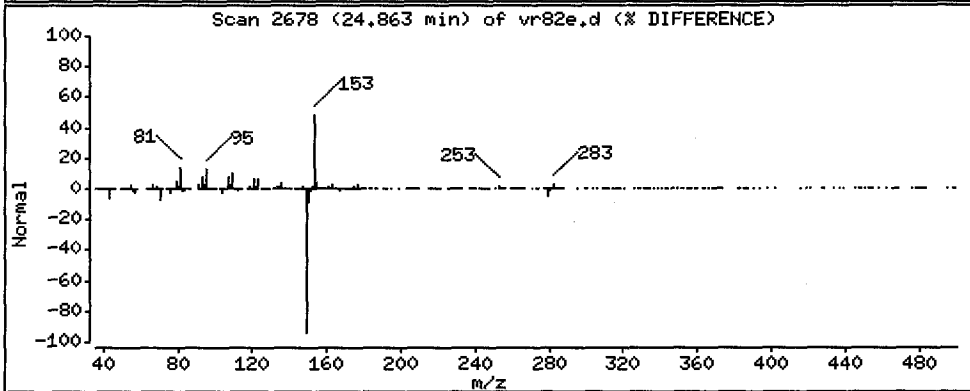
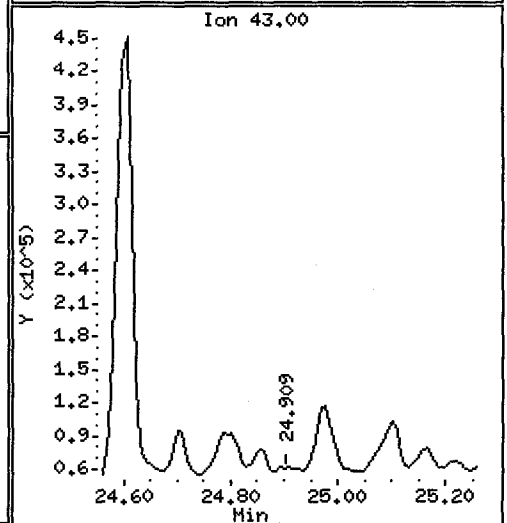
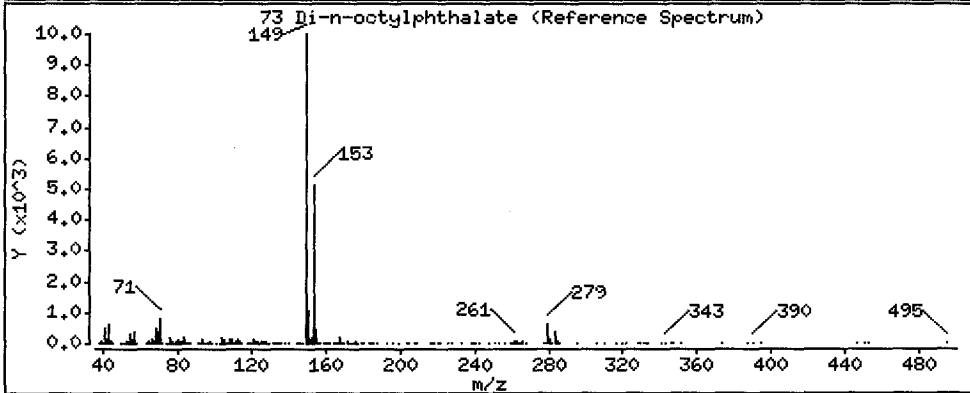
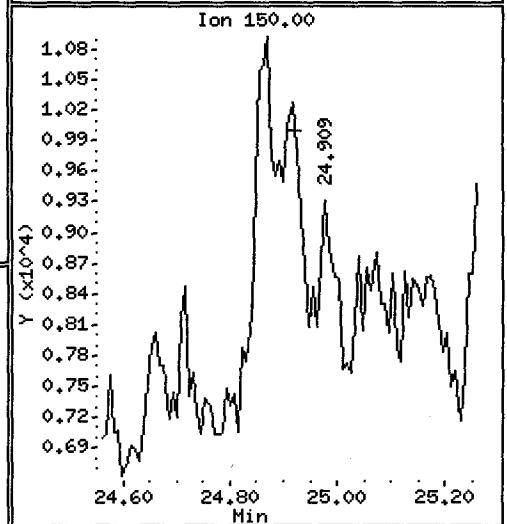
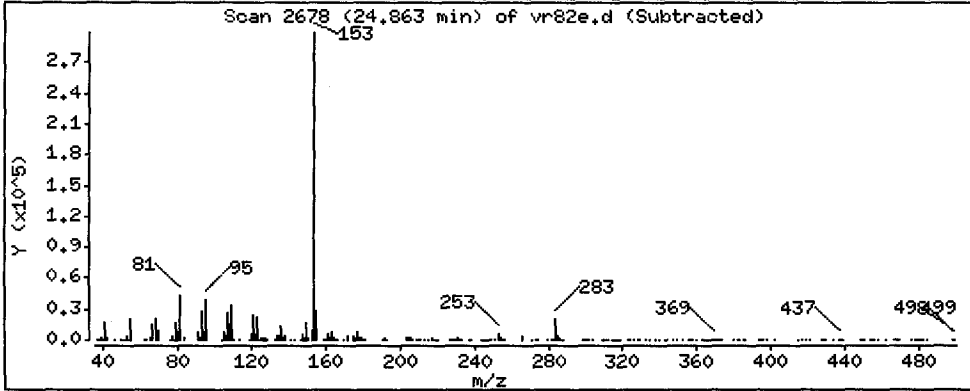
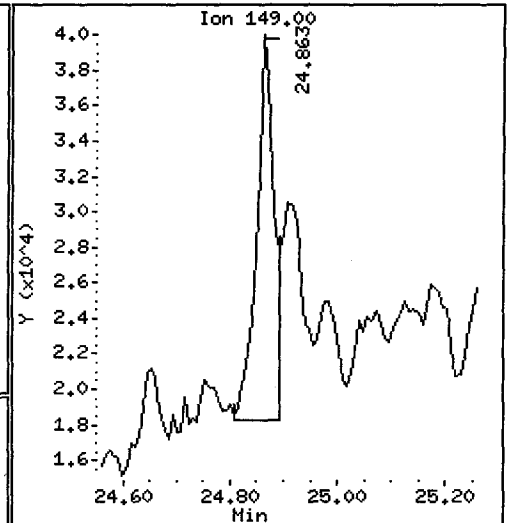
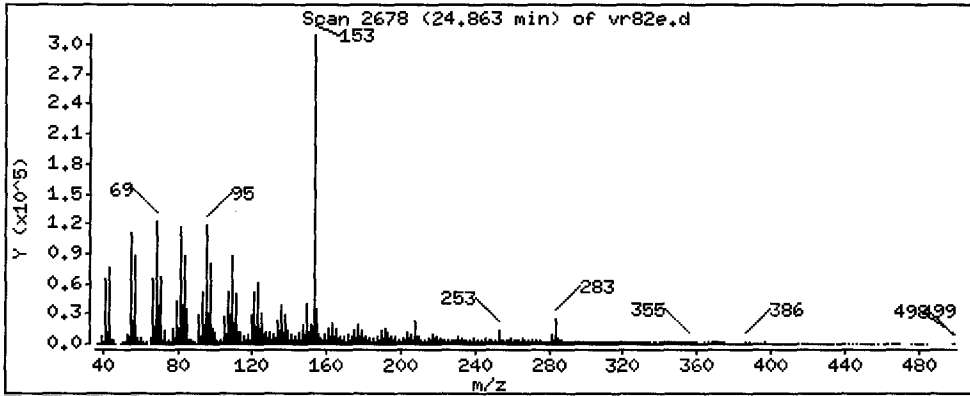
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 40.69 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

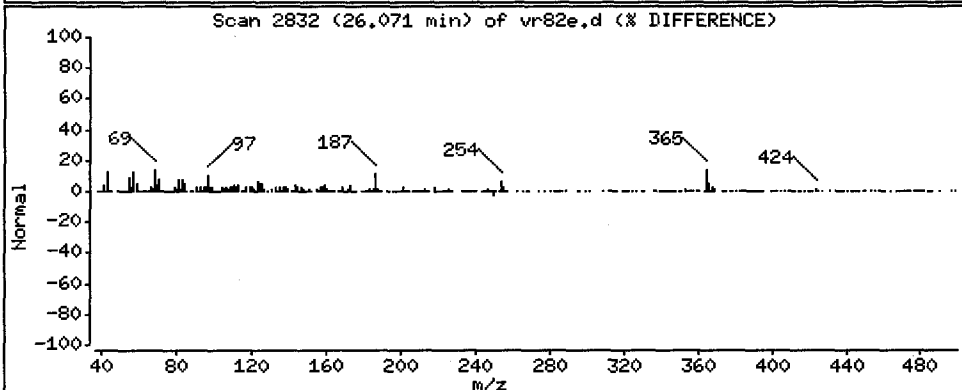
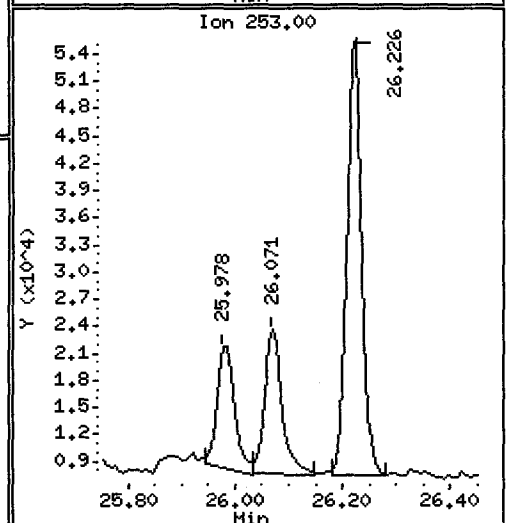
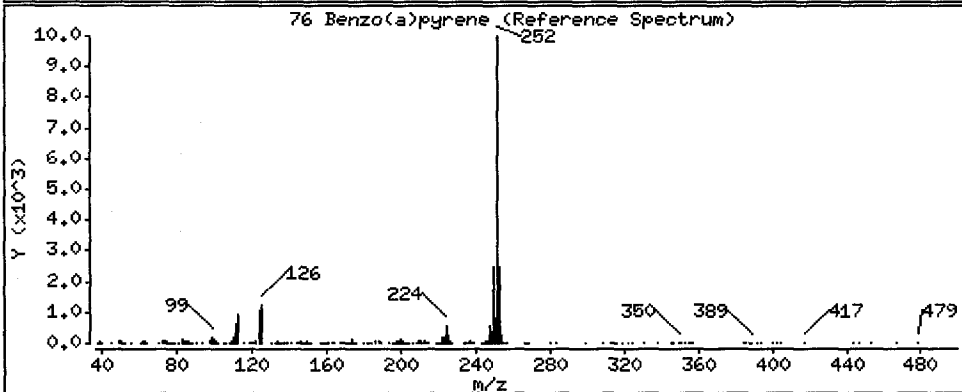
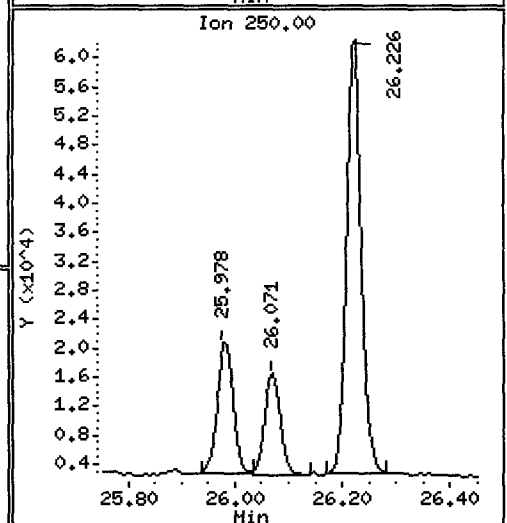
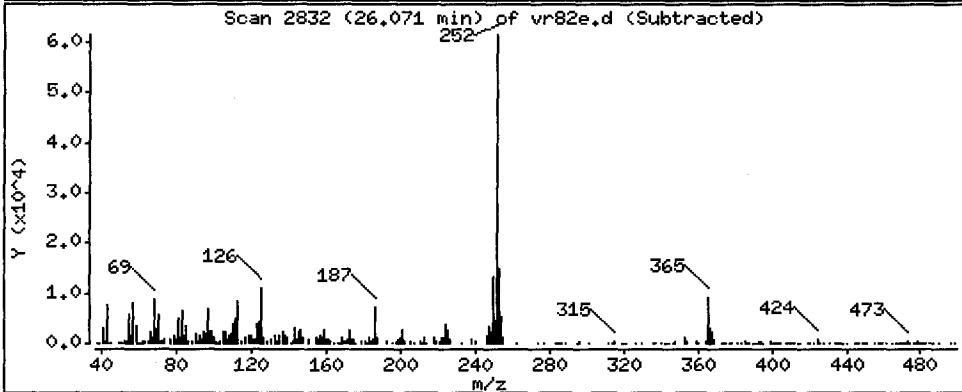
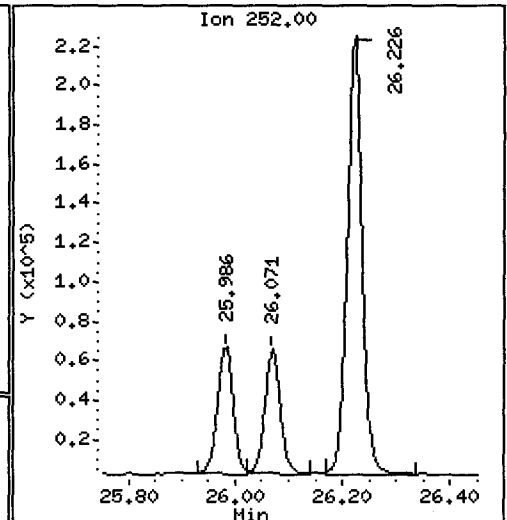
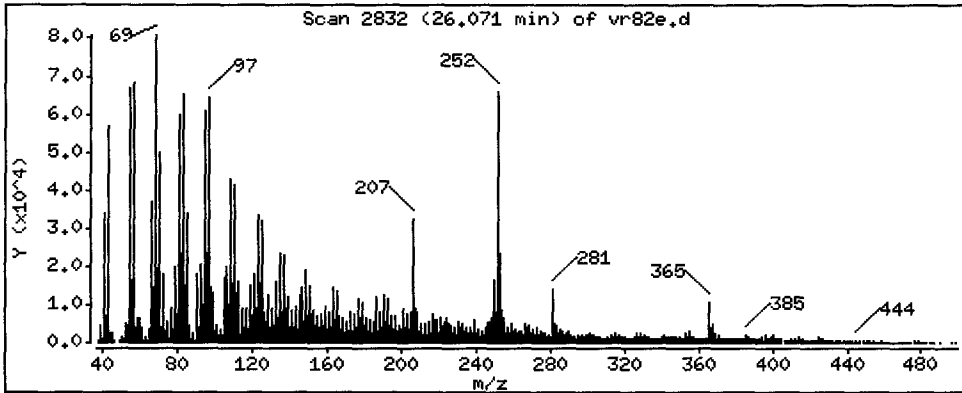
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 115.0 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

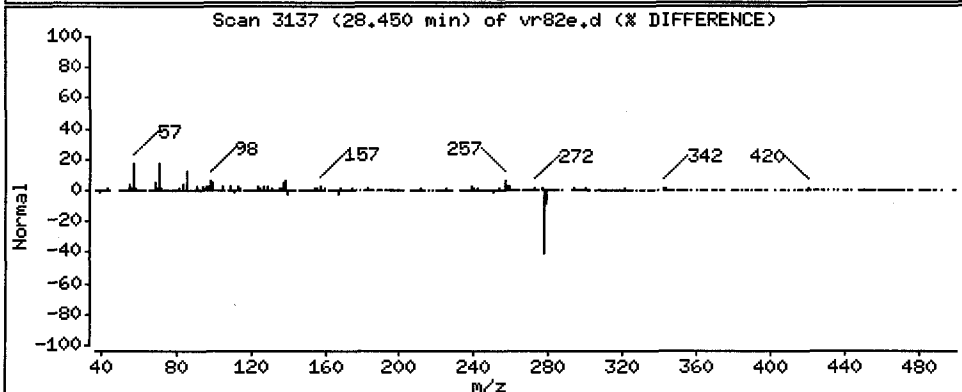
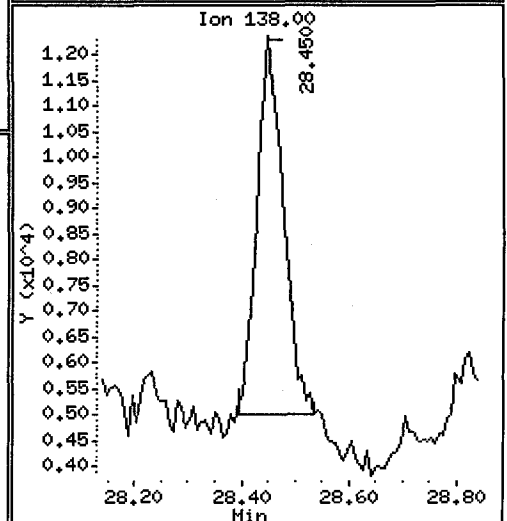
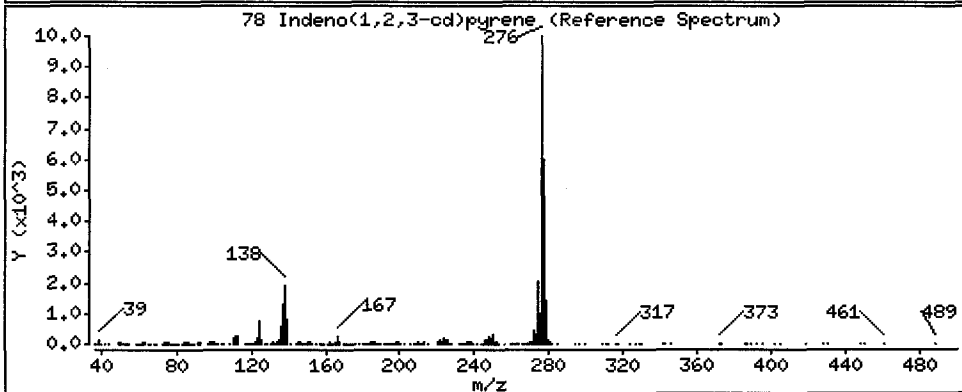
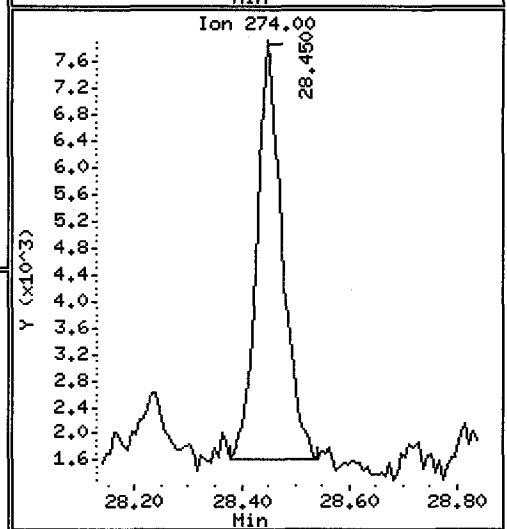
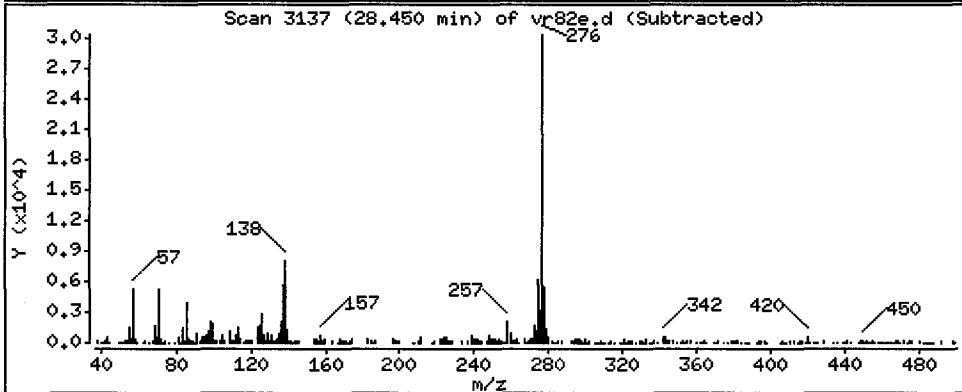
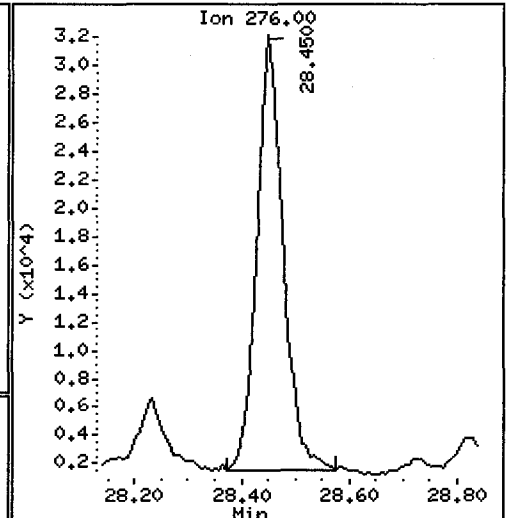
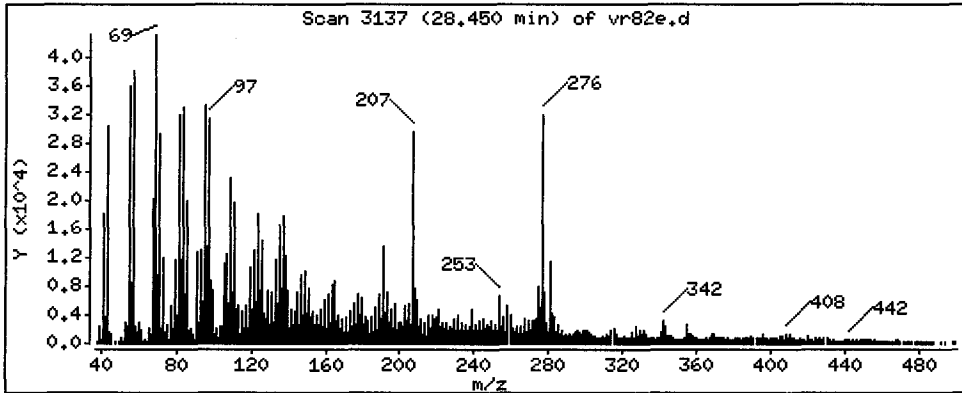
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 81.58 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

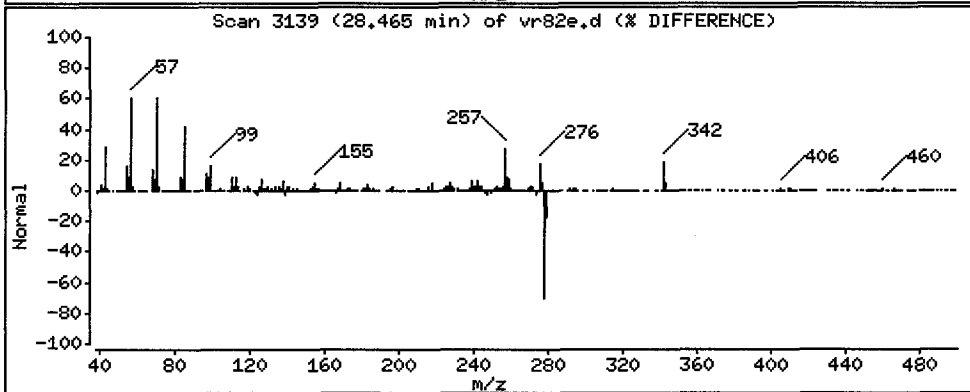
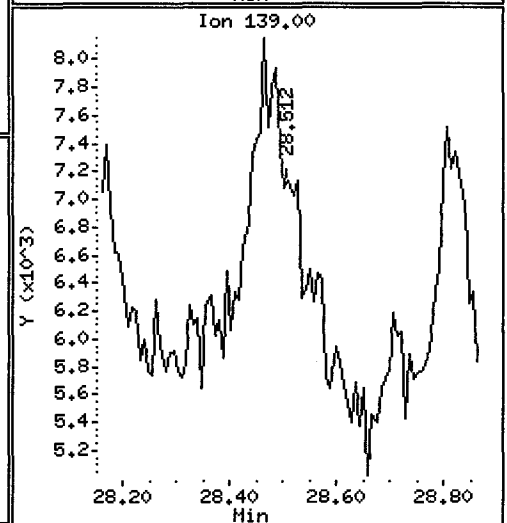
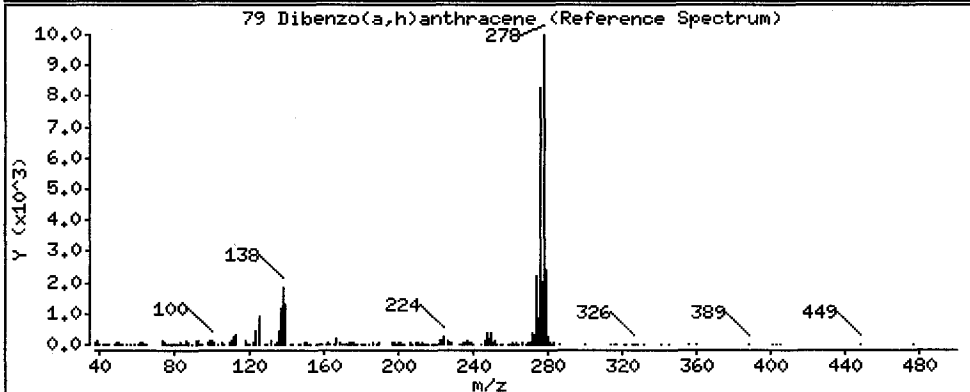
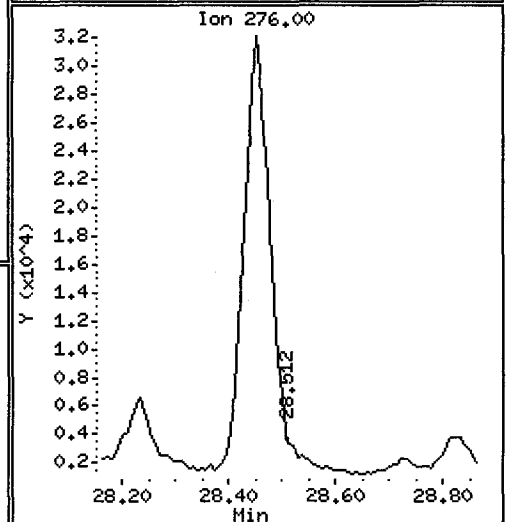
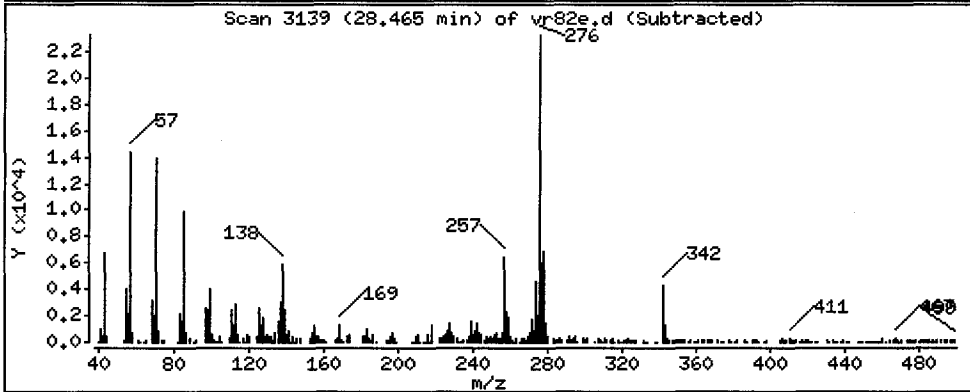
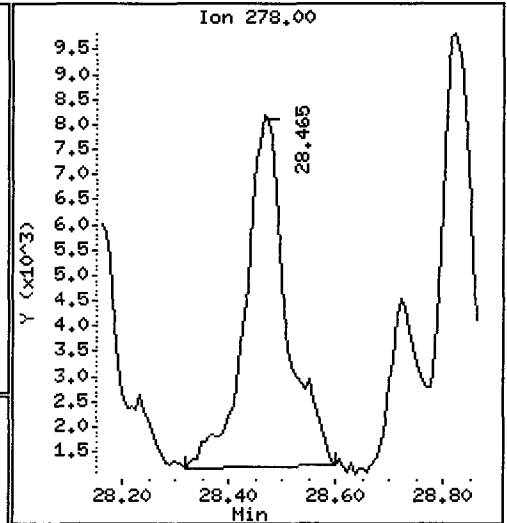
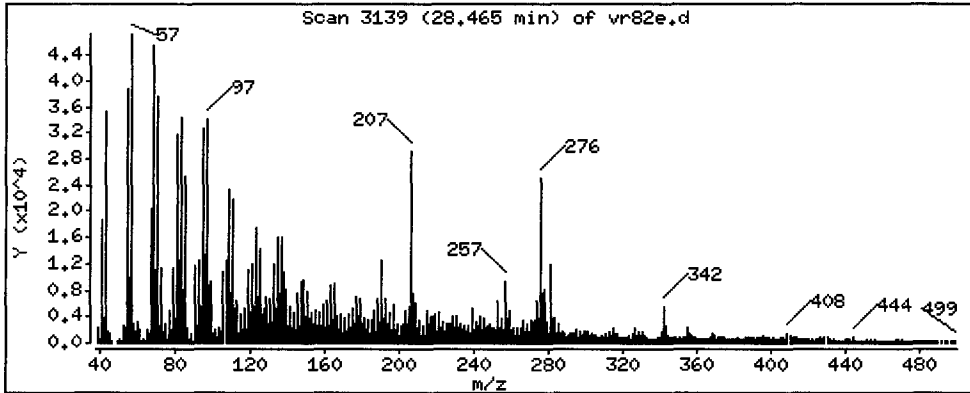
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 37.13 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

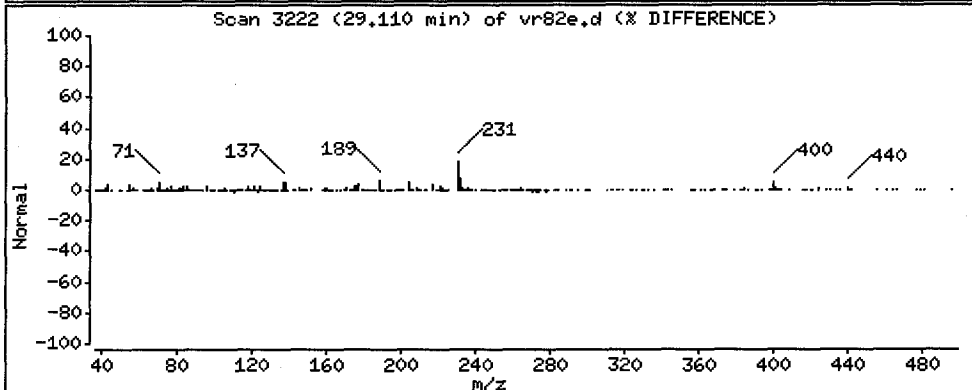
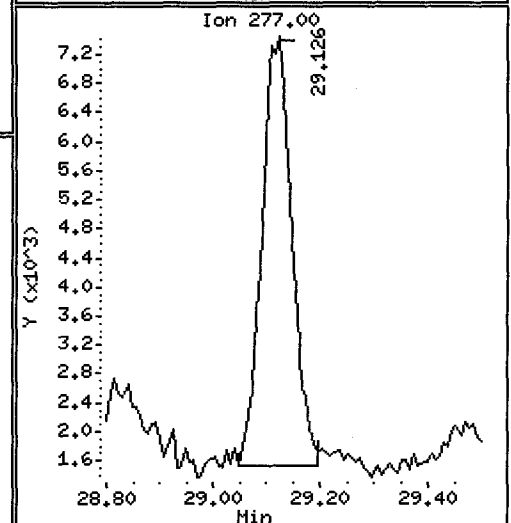
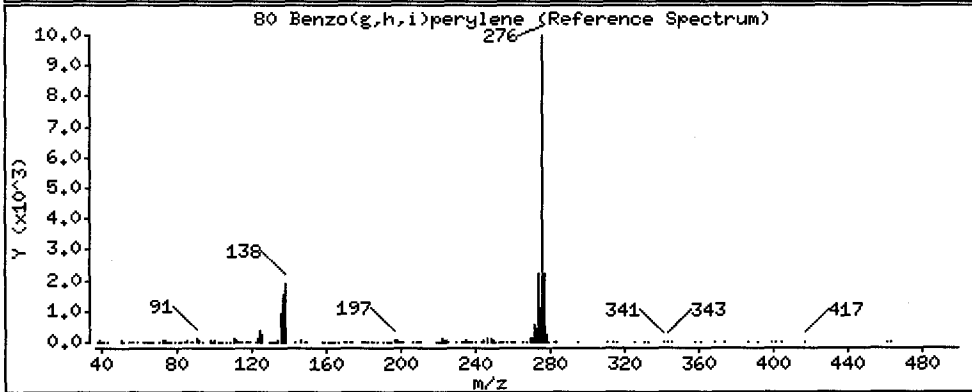
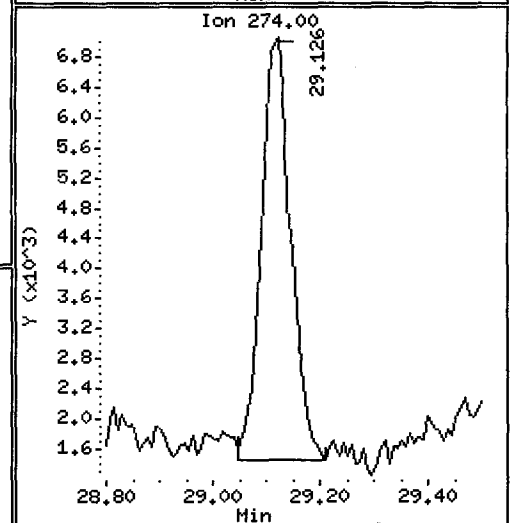
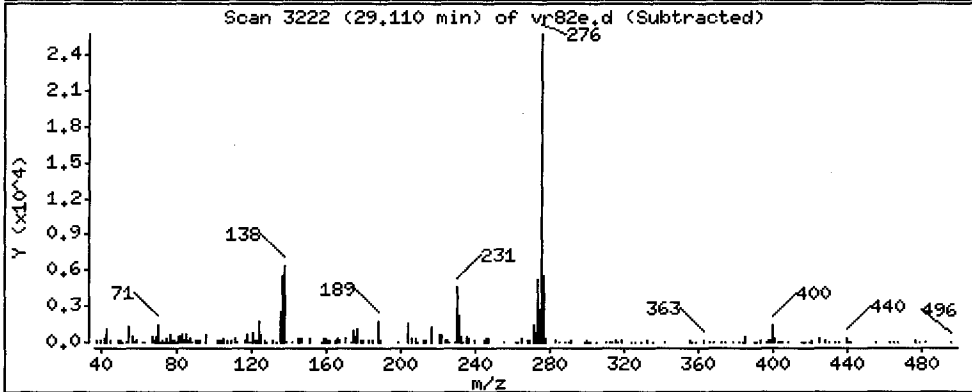
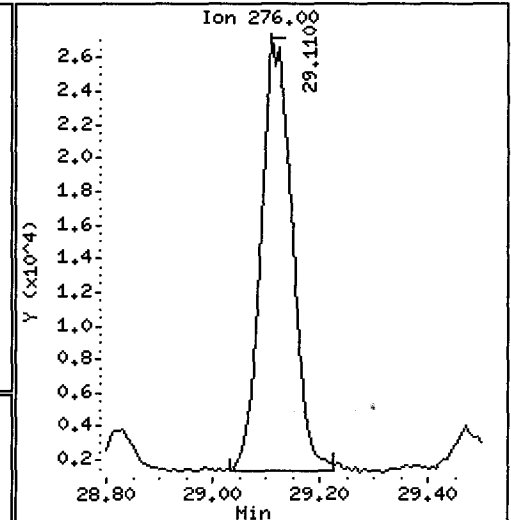
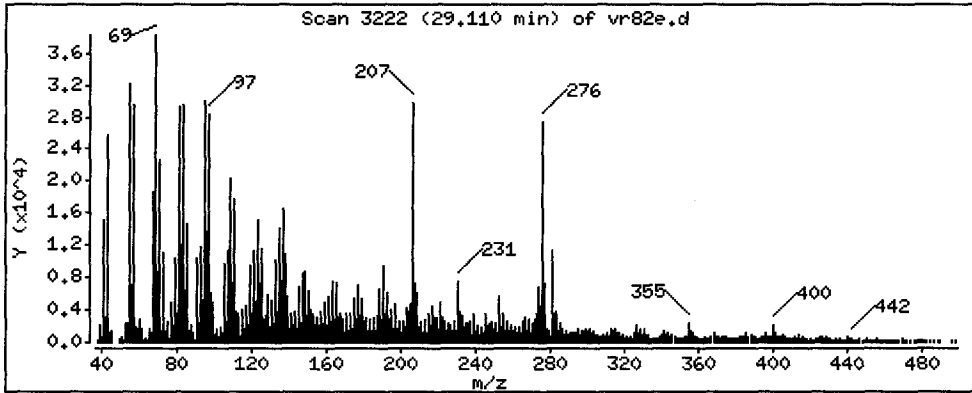
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 93.08 ug/kg



Date : 05-DEC-2012 17:39

Client ID: SG-06-S-C-121108

Instrument: nt10.i

Sample Info: VR82E

Volume Injected (uL): 1.0

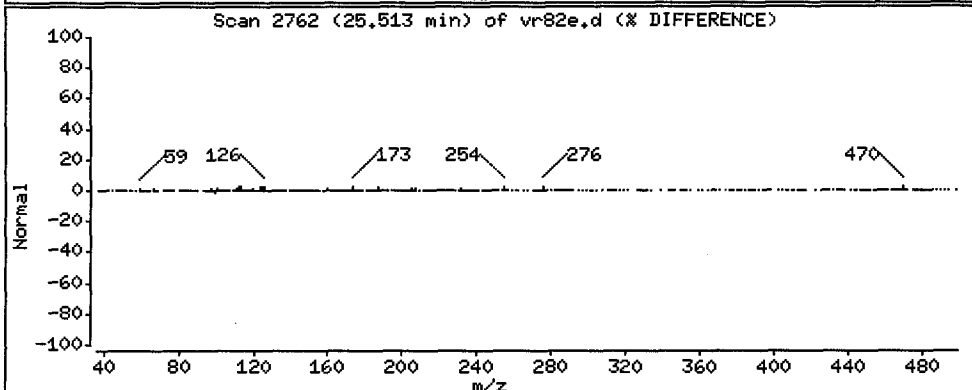
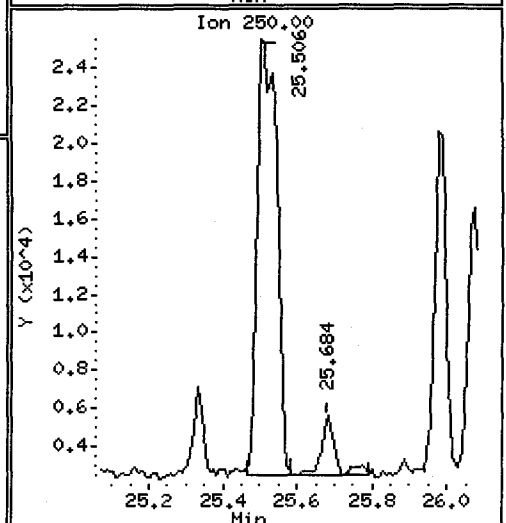
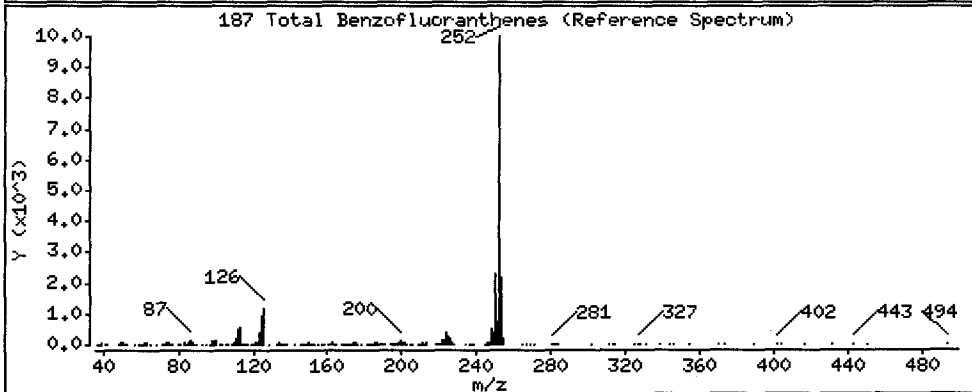
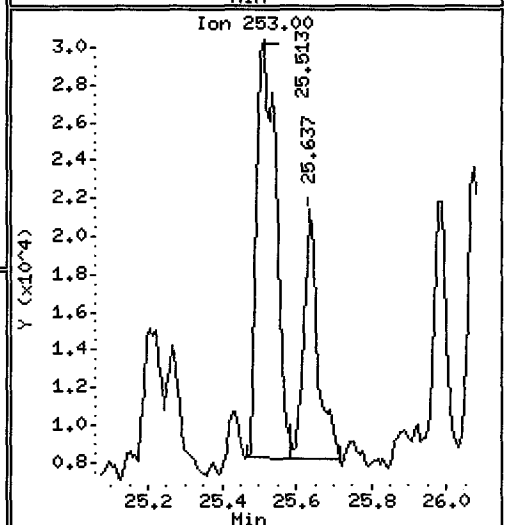
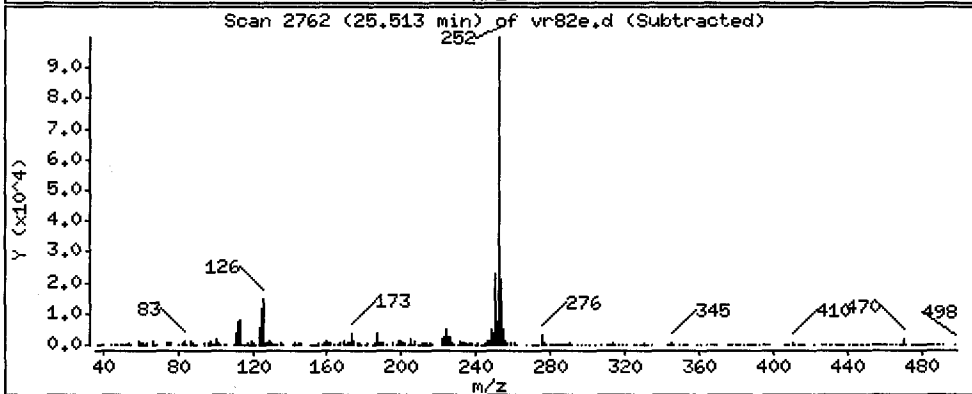
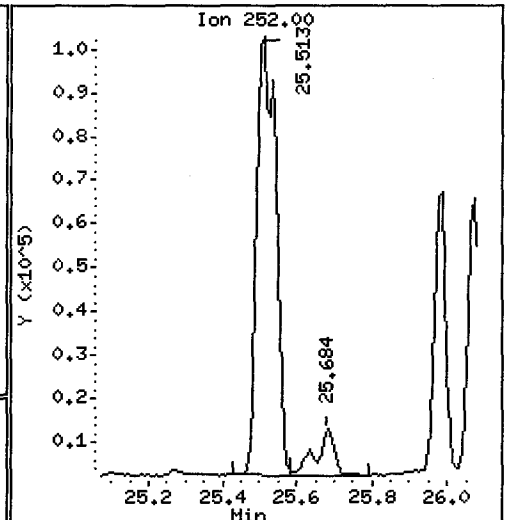
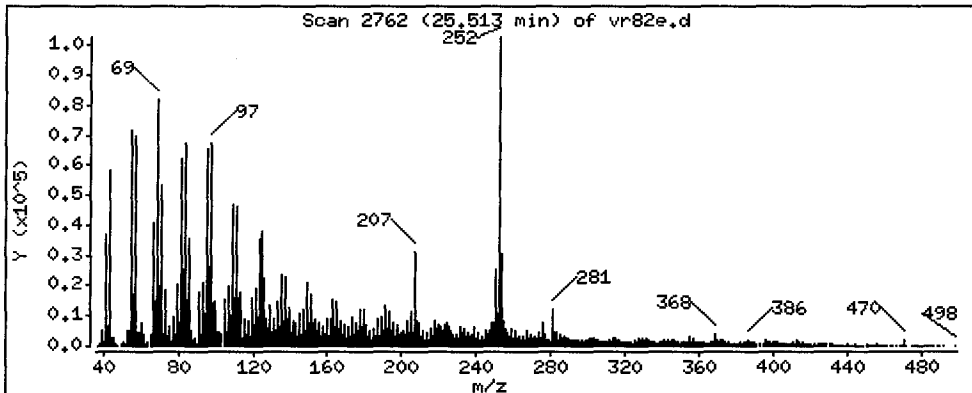
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

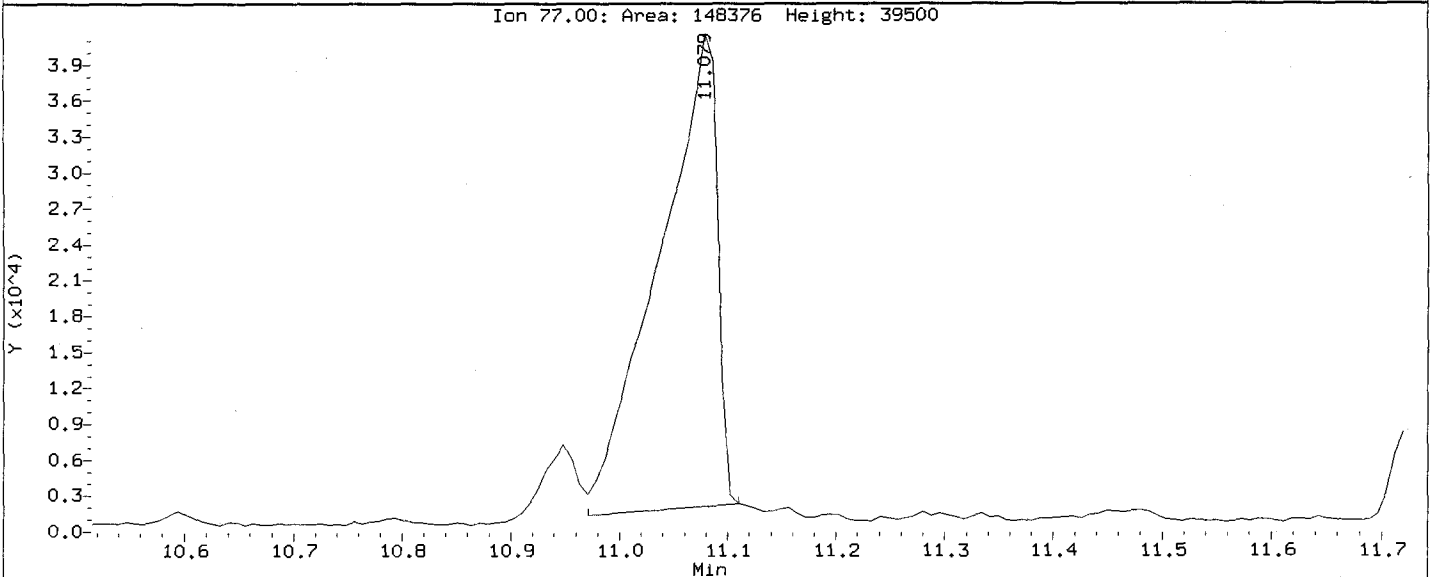
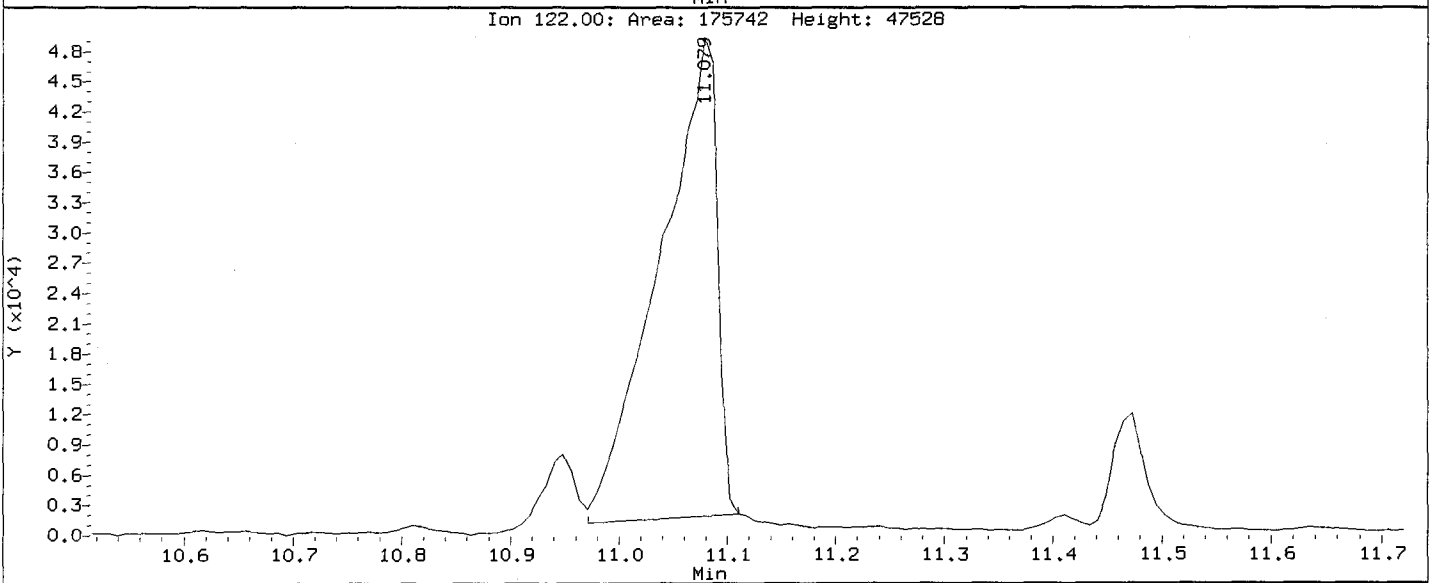
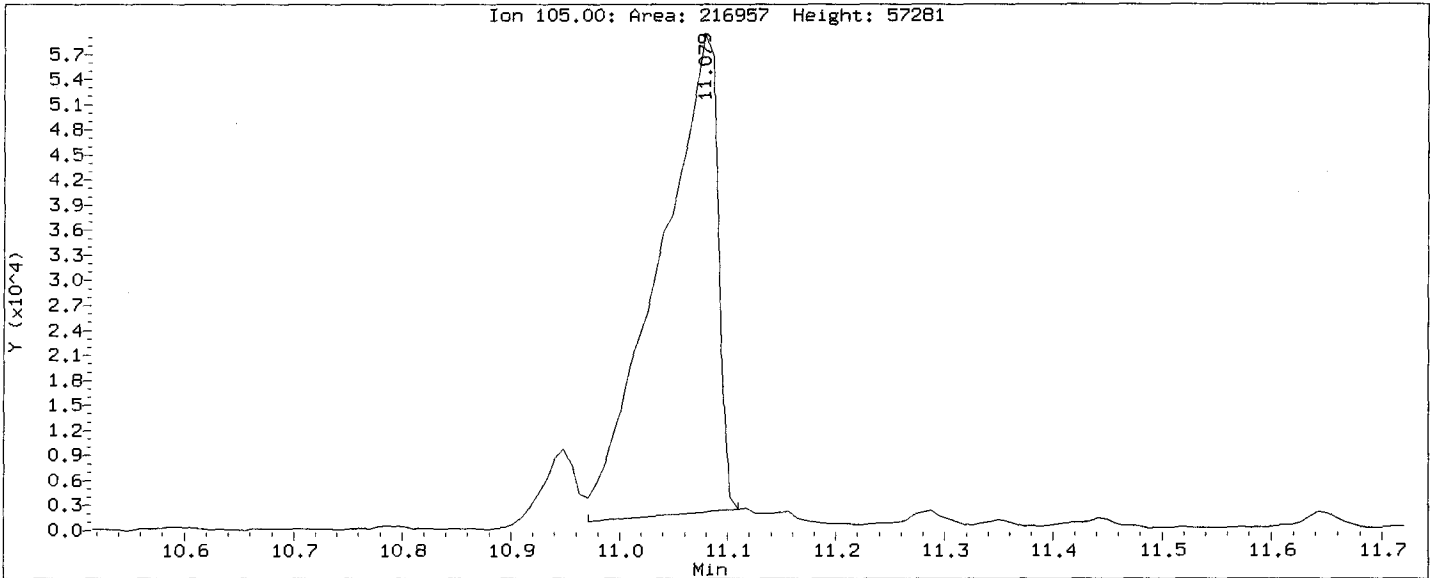
Concentration: 297.2 ug/kg



VI
12.6.12

Data File: /chem1/nt10.1/20121205.b/vr82e.d
Injection Date: 05-DEC-2012 17:39
Instrument: nt10.1
Client Sample ID: SG-06-S-C-121108

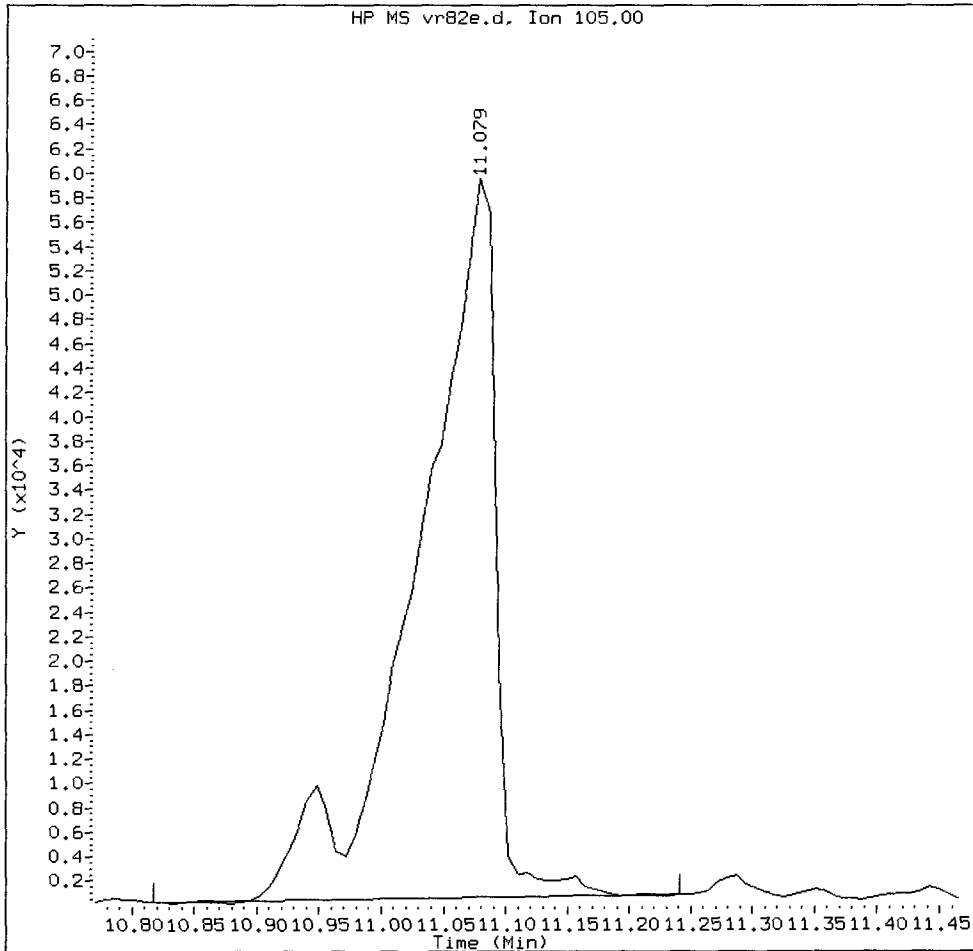
Compound: Benzoic acid
CAS Number: 65-85-0



VR82: 00565

VR82E, /chem1/nt10.i/20121205.b/vr82e.d

Benzoic acid Amount: 11.67 Area: 258201



MANUAL INTEGRATION for Benzoic acid

- 1) Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

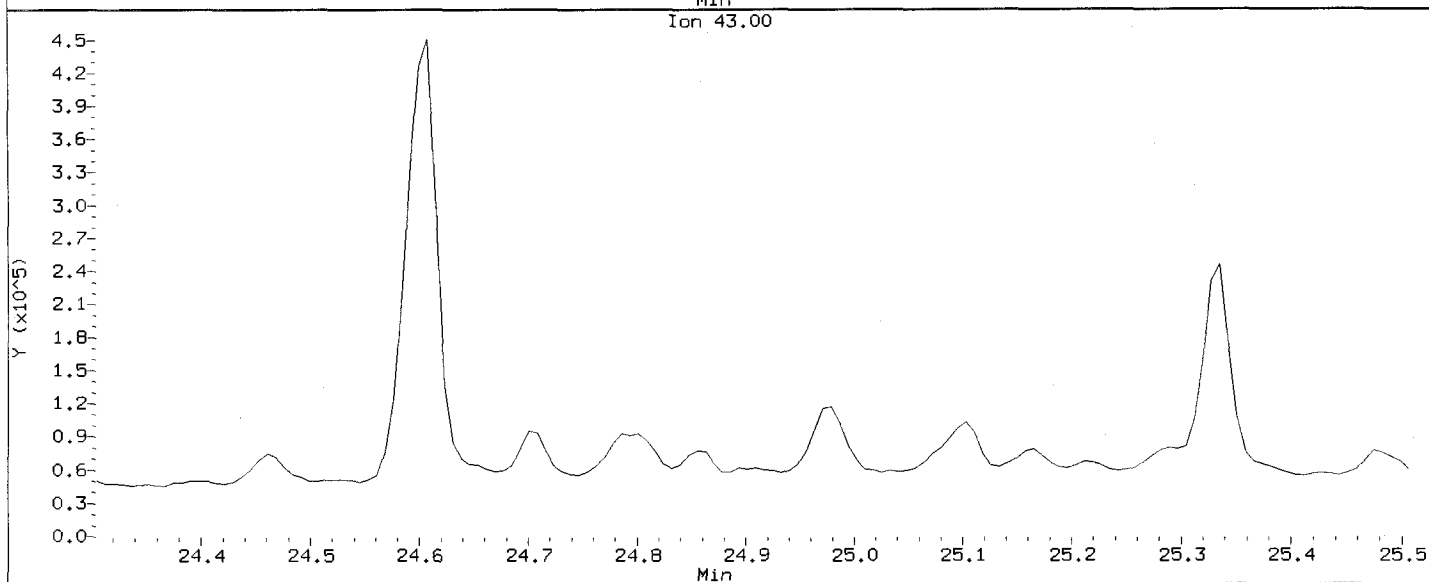
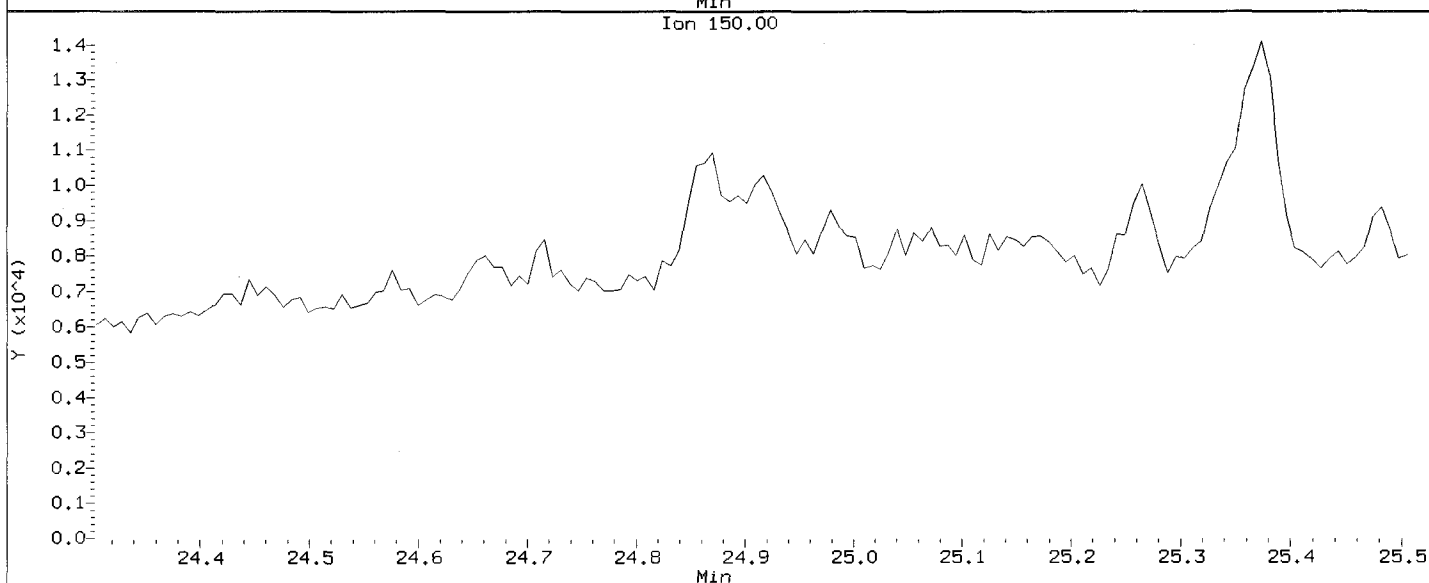
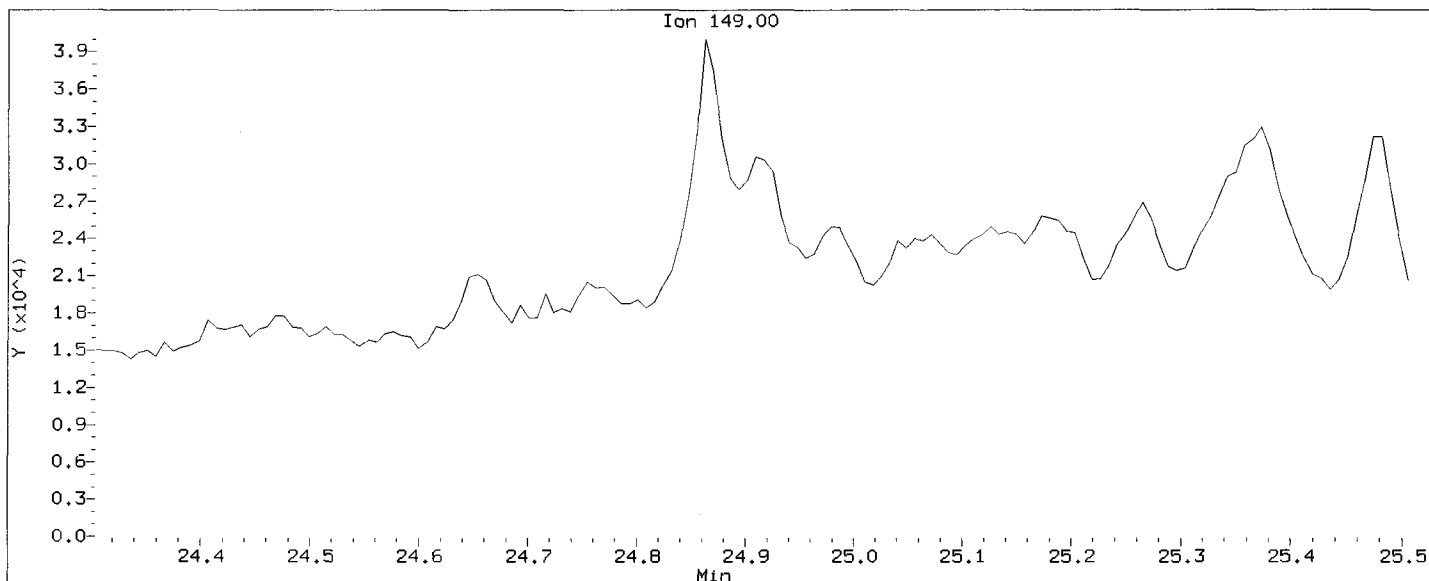
Analyst: VID

Date: 12.6.12

VR
12.6.12

Data File: /chem1/nt10.1/20121205.b/vr82e.d
Injection Date: 05-DEC-2012 17:39
Instrument: nt10.1
Client Sample ID: SG-06-S-C-121108

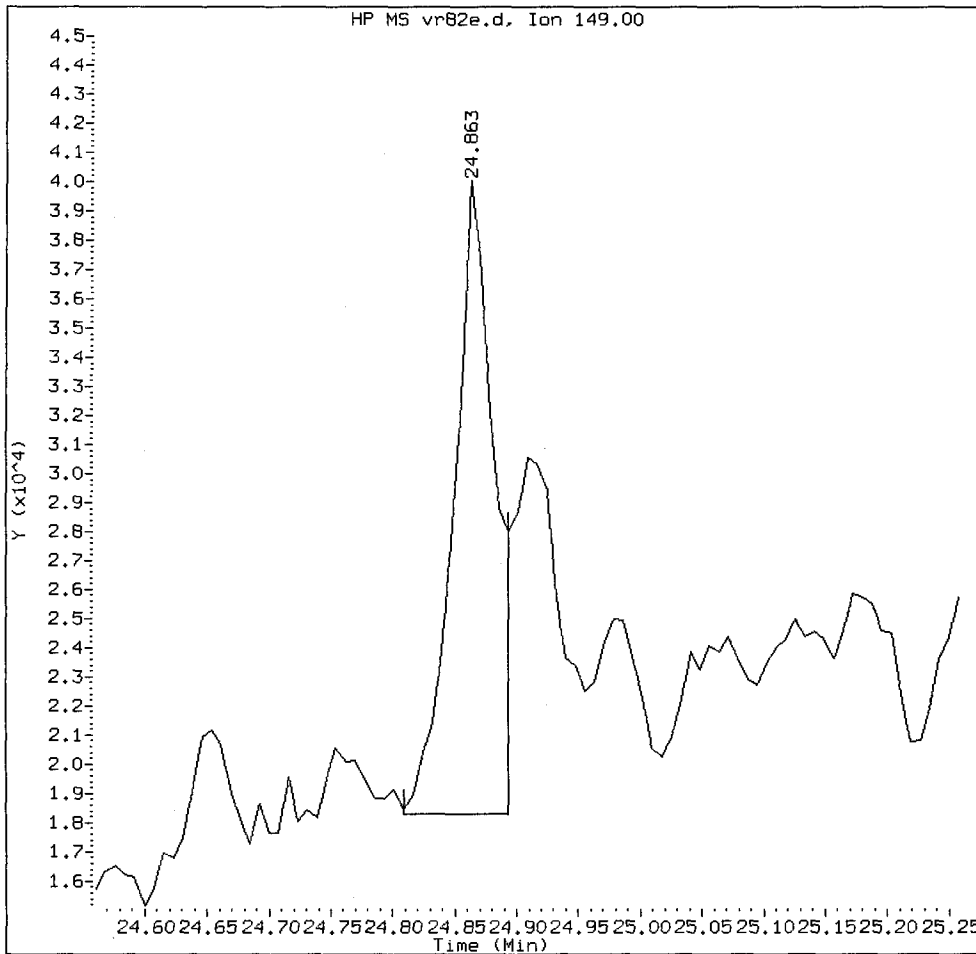
Compound: Di-n-octylphthalate
CAS Number: 117-84-0



VR82: 00567

VR82E, /chem1/nt10.i/20121205.b/vr82e.d

Di-n-octylphthalate Amount: 0.42 Area: 51007



MANUAL INTEGRATION for Di-n-octylphthalate

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

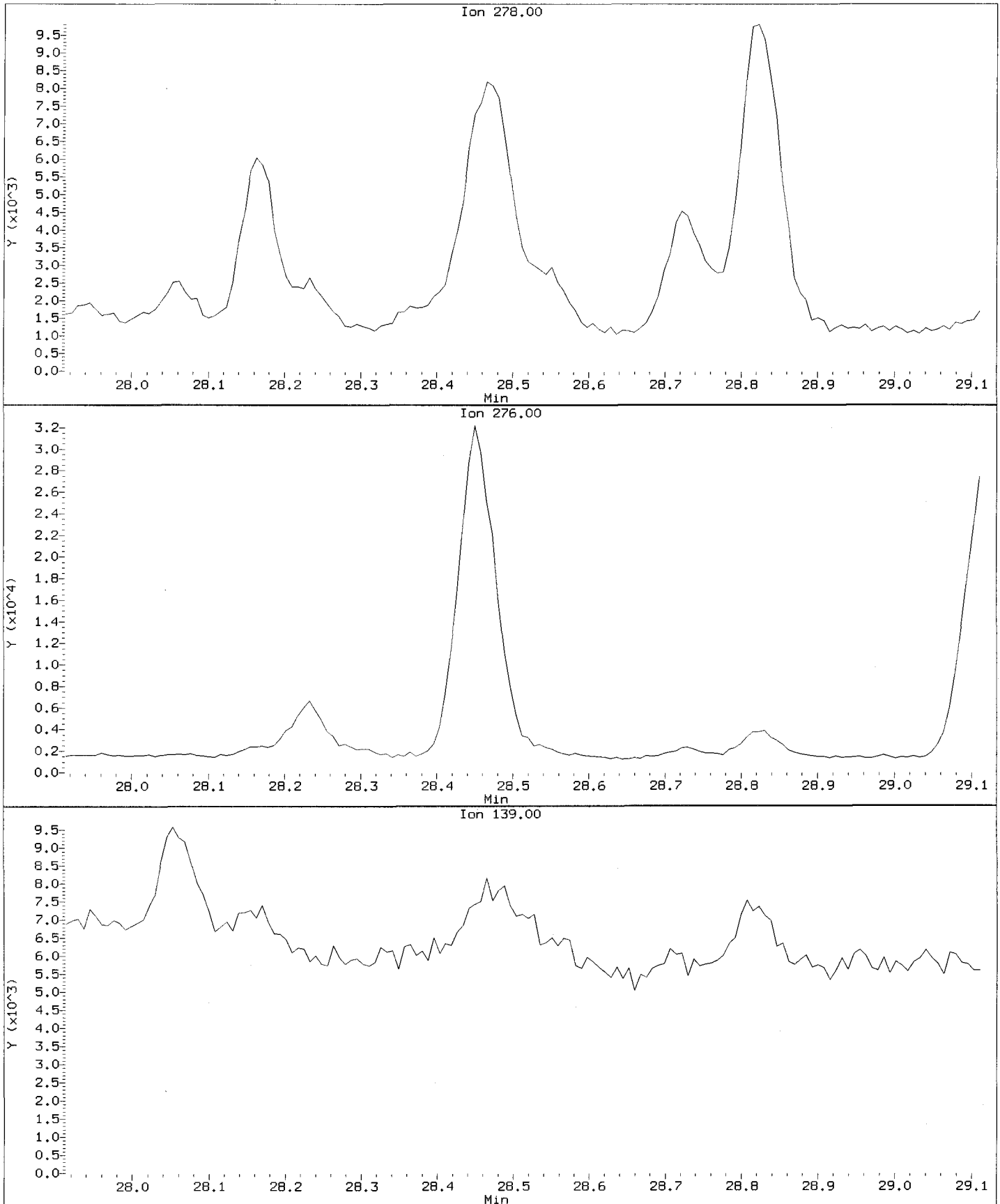
Analyst: VT

Date: 12.6.12

U13
12.6.12

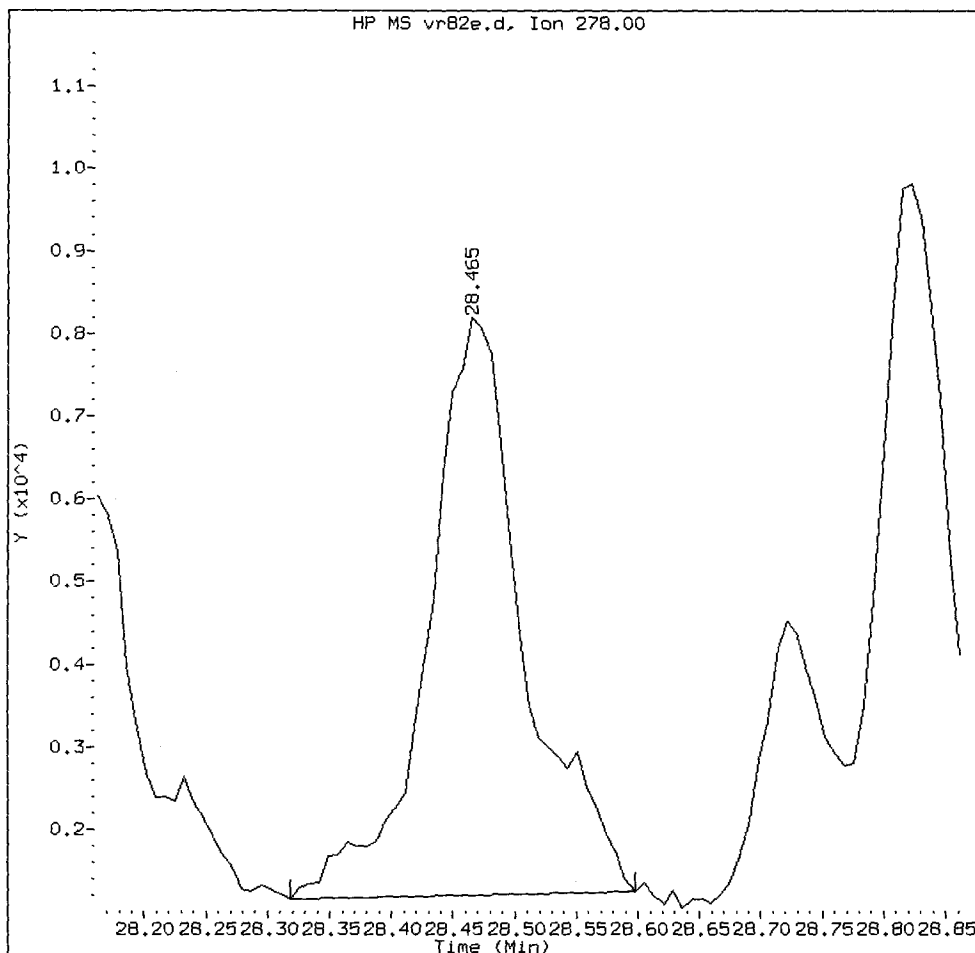
Data File: /chem1/nt10.i/20121205.b/vr82e.d
Injection Date: 05-DEC-2012 17:39
Instrument: nt10.i
Client Sample ID: S6-06-S-C-121108

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



VR82E, /chem1/nt10.i/20121205.b/vr82e.d

Dibenzo(a,h)anthracene Amount: 0.38 Area: 38419



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: VD

Date: 12.6.12

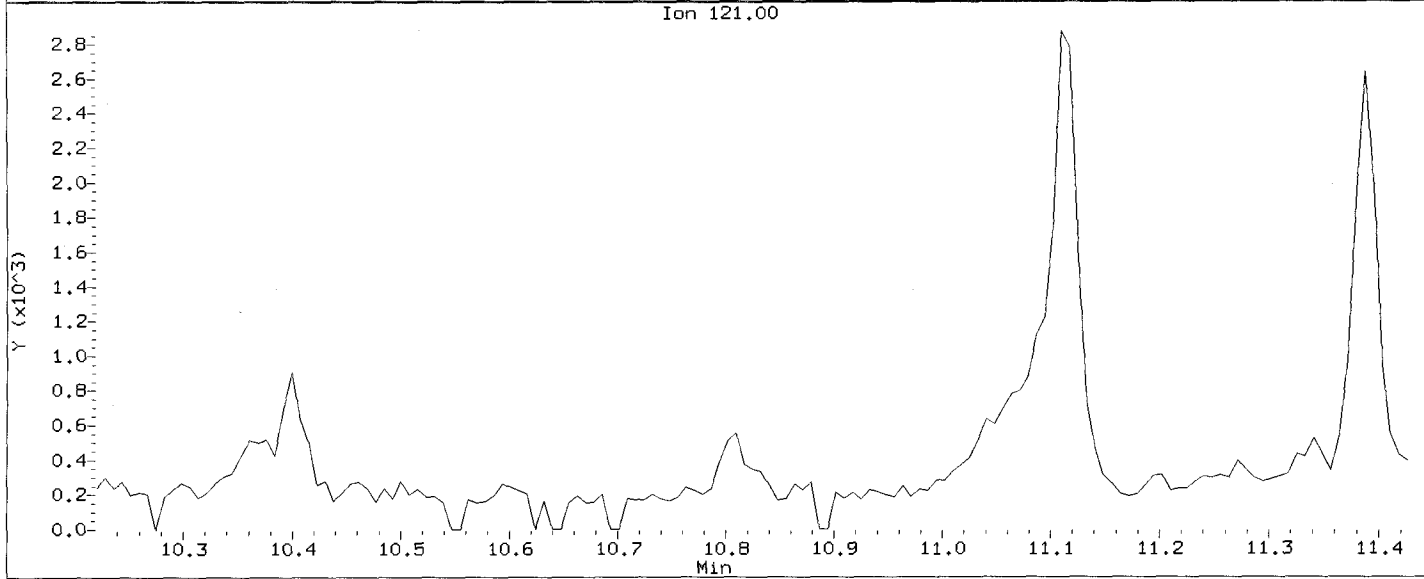
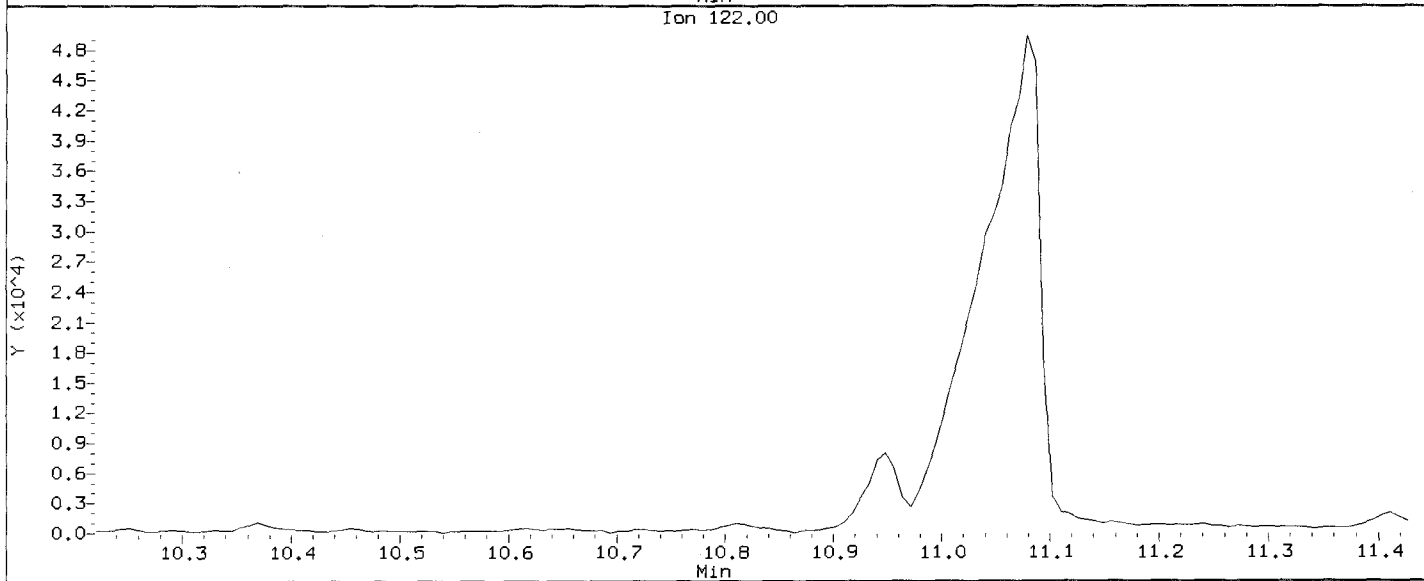
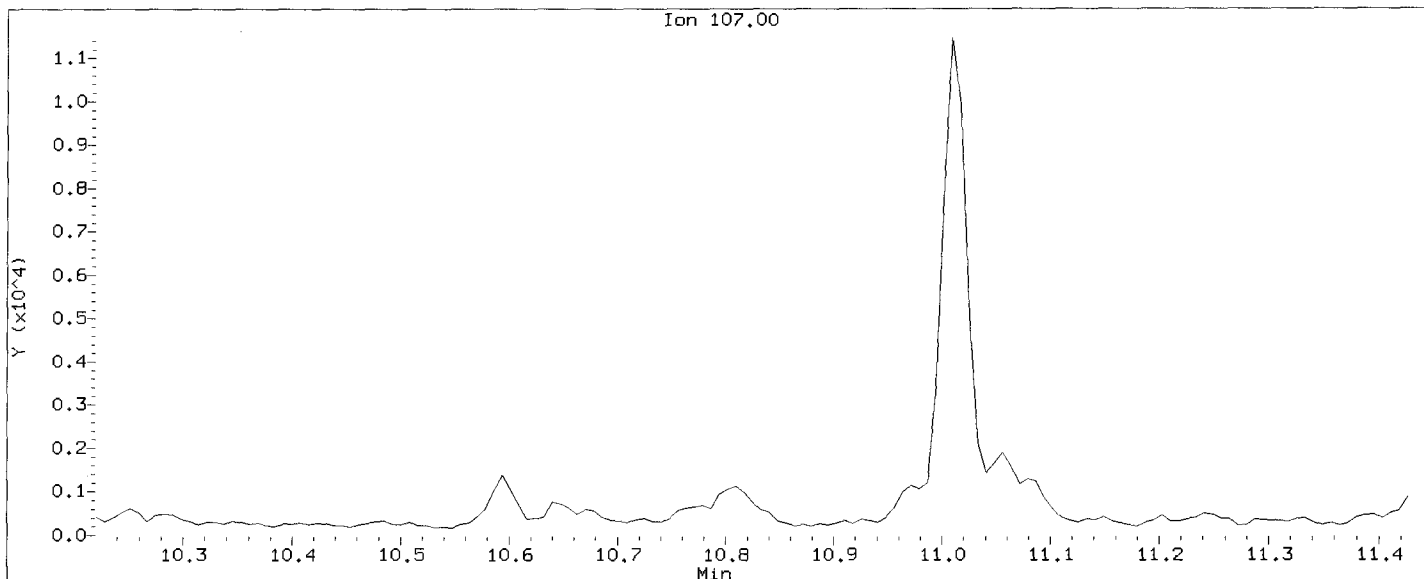
CO-ELUTION SUMMARY FOR FILE - vr82e.d

Lab ID: VR82E, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82e.d
Injection Date: 05-DEC-2012 17:39
Instrument: nt10.i
Client Sample ID: SG-06-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82f.d
 Lab Smp Id: VR82F Client Smp ID: SG-07-S-C-121108
 Inj Date : 05-DEC-2012 18:16
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82F
 Misc Info : 12-22484
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	29.10000	Weight of sample extracted (g)
M	64.90000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.498	6.474	(0.740)	145846	4.61372	451.7
\$ 2 Phenol-d5	99	8.205	8.205	(0.934)	185459	4.74127	464.2
3 Phenol	94	8.229	8.228	(0.937)	17738	0.43047	42.14
\$ 5 2-Chlorophenol-d4	132	8.422	8.429	(0.959)	160845	4.75251	465.3
7 1,3-Dichlorobenzene	146				Compound Not Detected.		
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	98819	4.00000	
9 1,4-Dichlorobenzene	146				Compound Not Detected.		
\$ 10 1,2-Dichlorobenzene-d4	152	9.166	9.189	(1.043)	74288	3.01025	294.7
12 1,2-Dichlorobenzene	146				Compound Not Detected.		
11 Benzyl alcohol	108	9.119	9.134	(1.038)	22836	1.17197	114.7
13 2-Methylphenol	108				Compound Not Detected.		
17 Hexachloroethane	117				Compound Not Detected.		
15 4-Methylphenol	108	9.693	9.709	(1.103)	11646	0.55439	54.28
\$ 18 Nitrobenzene-d5	82	9.957	9.988	(0.870)	104695	2.88869	282.8
22 2,4-Dimethylphenol	107				Compound Not Detected.		

Compounds	QUANT	SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
									ON-COLUMN	FINAL
	MASS								(ug/mL)	(ug/kg)
24 Benzoic acid	105		11.010	11.118	(0.962)			99286	4.41205	432.0
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.							
* 27 Naphthalene-d8	136		11.442	11.472	(1.000)			386787	4.00000	
28 Naphthalene	128		11.488	11.519	(1.004)			16958	0.18021	17.64
30 Hexachlorobutadiene	225		Compound Not Detected.							
32 2-Methylnaphthalene	142		Compound Not Detected.							
\$ 36 2-Fluorobiphenyl	172		13.848	13.894	(0.904)			268965	3.27168	320.3
39 Dimethylphthalate	163		Compound Not Detected.							
40 Acenaphthylene	152		Compound Not Detected.							
* 42 Acenaphthene-d10	164		15.326	15.372	(1.000)			232274	4.00000	
44 Acenaphthene	153		Compound Not Detected.							
46 Dibenzofuran	168		Compound Not Detected.							
50 Diethylphthalate	149		Compound Not Detected.							
49 Fluorene	166		16.524	16.570	(1.078)			9098	0.11775	11.53
54 N-Nitrosodiphenylamine	169		Compound Not Detected.							
\$ 55 2,4,6-Tribromophenol	330		17.110	17.156	(1.116)			80830	5.90767	578.4
57 Hexachlorobenzene	284		Compound Not Detected.							
58 Pentachlorophenol	266		Compound Not Detected.							
* 59 Phenanthrene-d10	188		18.602	18.656	(1.000)			395582	4.00000	
60 Phenanthrene	178		18.656	18.702	(1.003)			71435	0.72934	71.41
61 Anthracene	178		18.749	18.803	(1.008)			18573	0.17642	17.27
63 Di-n-butylphthalate	149		Compound Not Detected.							
64 Fluoranthene	202		21.101	21.139	(1.134)			188627	1.52790	149.6
65 Pyrene	202		21.519	21.565	(0.907)			180318	1.41557	138.6
\$ 66 Terphenyl-d14	244		21.851	21.898	(0.921)			316690	3.71931	364.1
67 Butylbenzylphthalate	149		22.811	22.858	(0.961)			15017	0.29021	28.41
68 Benzo(a)anthracene	228		23.702	23.748	(0.999)			134207	1.08597	106.3
* 69 Chrysene-d12	240		23.733	23.771	(1.000)			434811	4.00000	
71 Chrysene	228		23.772	23.818	(1.002)			160557	1.46242	143.2
72 bis(2-Ethylhexyl)phthalate	149		23.864	23.918	(0.960)			272483	3.37686	330.6
* 134 Di-n-octylphthalate-d4	153		24.855	24.902	(1.000)			584812	4.00000	
73 Di-n-octylphthalate	149		24.863	24.909	(1.000)			30883	0.23296	22.81 (M)
76 Benzo(a)pyrene	252		26.063	26.102	(0.996)			73651	0.63601	62.27
* 77 Perylene-d12	264		26.172	26.210	(1.000)			405769	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.473	28.489	(1.088)			44986	0.34277	33.56
79 Dibenzo(a,h)anthracene	278		28.481	28.512	(1.088)			17554	0.16855	16.50 (M)
80 Benzo(g,h,i)perylene	276		29.219	29.149	(1.116)			42007	0.37399	36.62 (M)
105 1-methylnaphthalene	142		Compound Not Detected.							
187 Total Benzofluoranthenes	252		25.498	25.575	(0.974)			204924	1.71615	168.0
98 Retene	219		22.145	22.215	(0.933)			591088		
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.							

QC Flag Legend

M - Compound response manually integrated.

Handwritten: 12-6-12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82f.d
 Lab Smp Id: VR82F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22484

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-07-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	98819	21.14
27 Naphthalene-d8	299399	149700	598798	386787	29.19
42 Acenaphthene-d10	178564	89282	357128	232274	30.08
59 Phenanthrene-d10	305410	152705	610820	395582	29.52
69 Chrysene-d12	323853	161926	647706	434811	34.26
134 Di-n-octylphthala	427845	213922	855690	584812	36.69
77 Perylene-d12	305316	152658	610632	405769	32.90

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.26
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.60	-0.29
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.86	-0.19
77 Perylene-d12	26.21	25.71	26.71	26.17	-0.15

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.

Analytical Resources, Inc.

RECOVERY REPORT

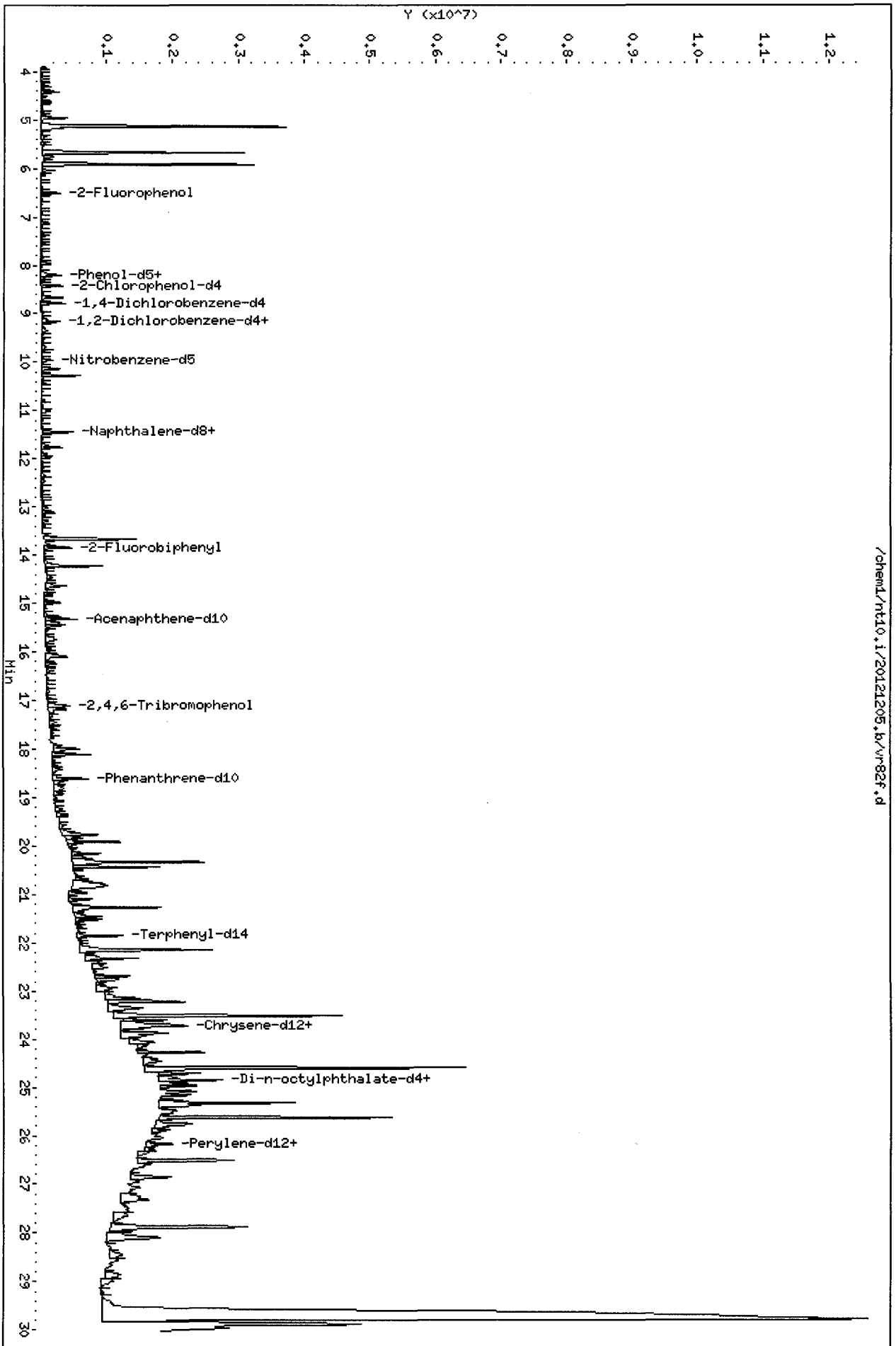
Client Name: Anchor QEA, LLC.	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82F	Client Smp ID: SG-07-S-C-121108
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22484	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	734.3	451.7	61.52	30-160
\$ 2 Phenol-d5	734.3	464.2	63.22	30-160
\$ 5 2-Chlorophenol-d4	734.3	465.3	63.37	30-160
\$ 10 1,2-Dichlorobenzen	489.5	294.7	60.20	30-160
\$ 18 Nitrobenzene-d5	489.5	282.8	57.77	30-160
\$ 36 2-Fluorobiphenyl	489.5	320.3	65.43	30-160
\$ 55 2,4,6-Tribromophen	734.3	578.4	78.77	30-160
\$ 66 Terphenyl-d14	489.5	364.1	74.39	30-160

Data File: /chem1/nt10.i/20121205.b/vr82f.d
Date : 05-DEC-2012 18:16
Client ID: SG-07-S-C-121108
Sample Info: VR82F
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: VTS/VZ
Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82f.d



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

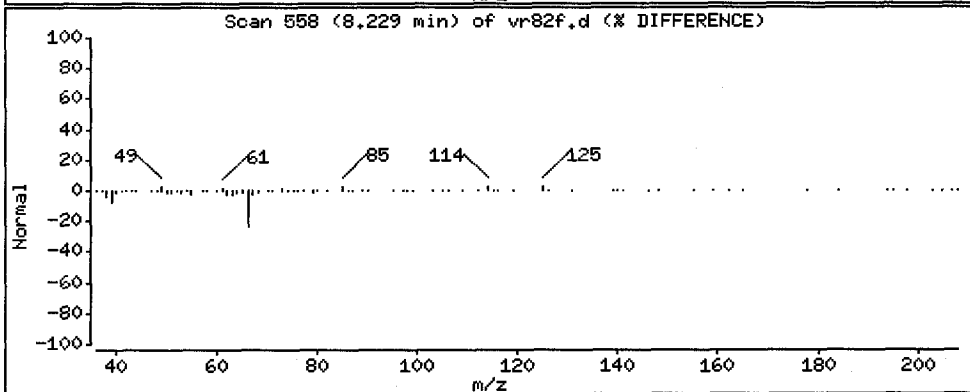
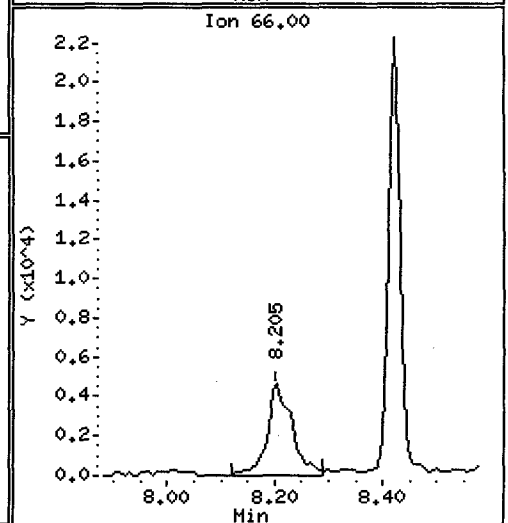
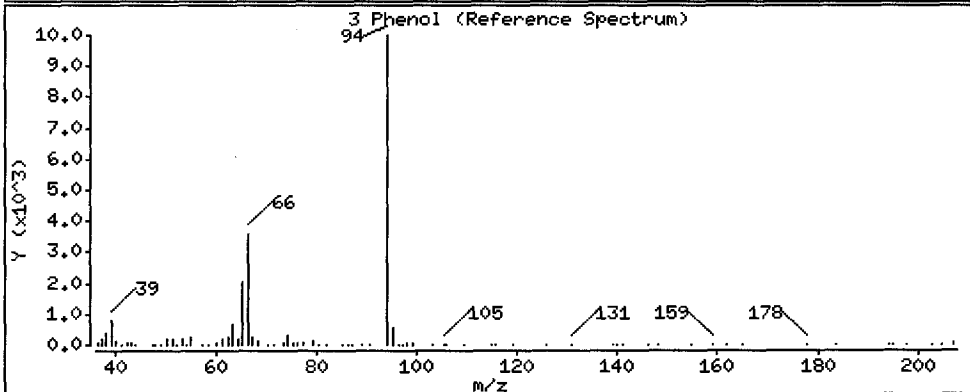
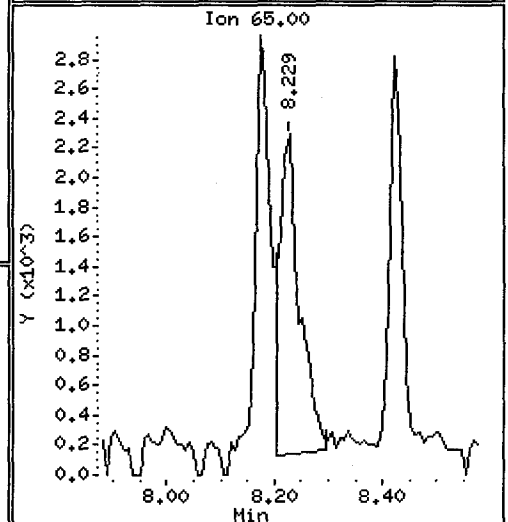
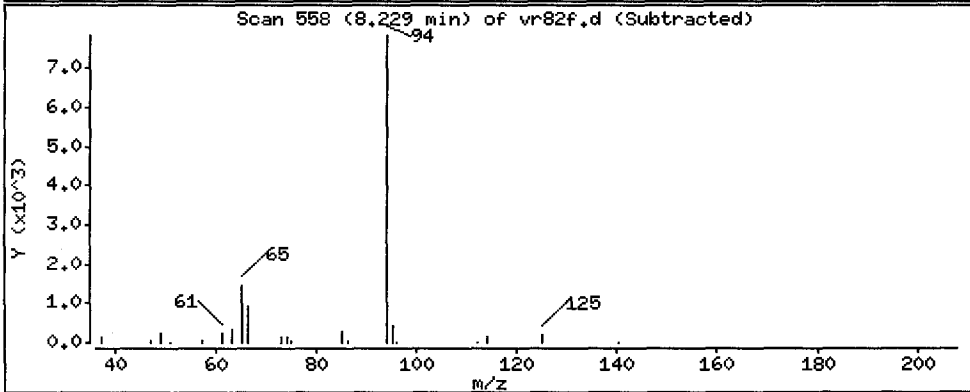
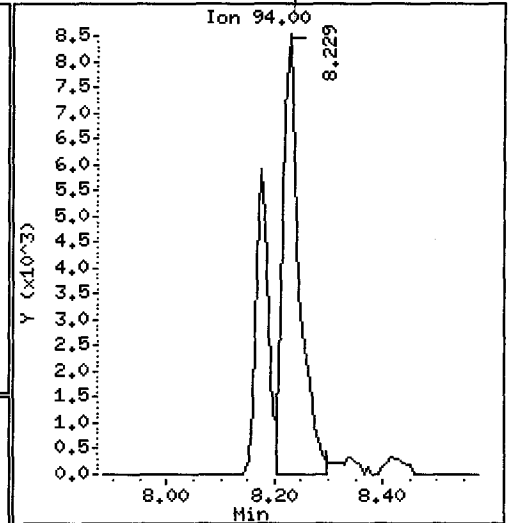
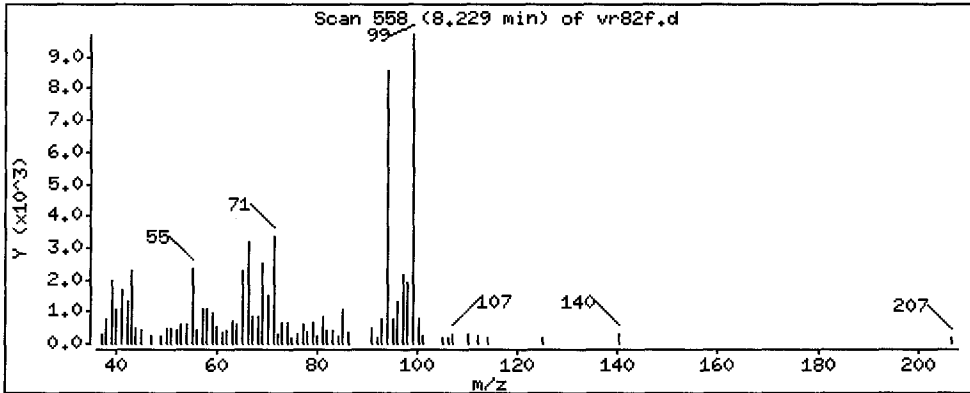
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 42.14 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

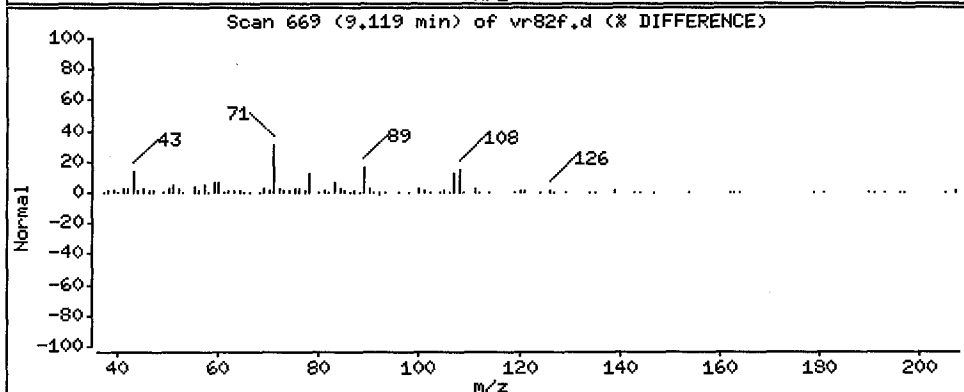
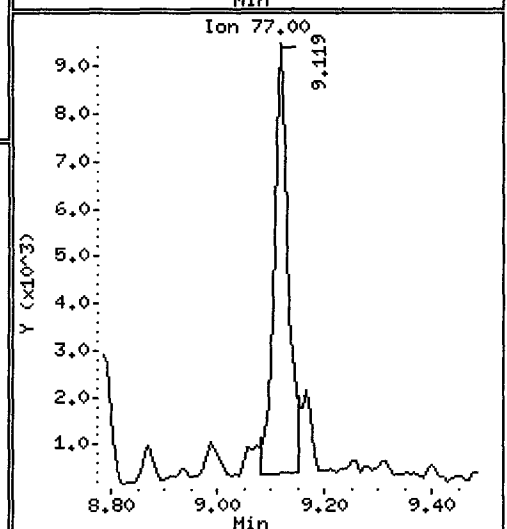
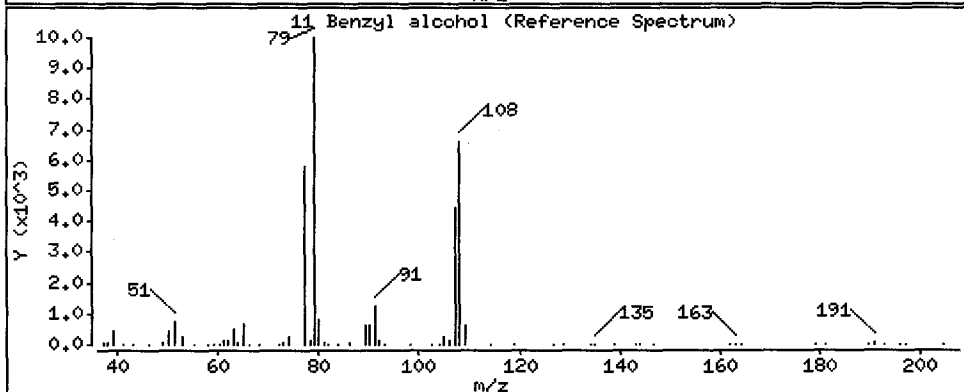
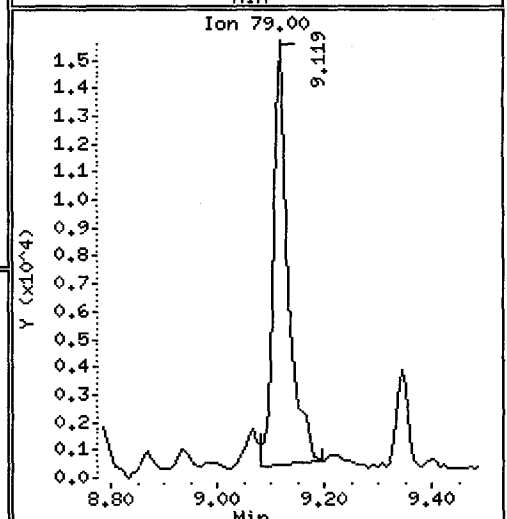
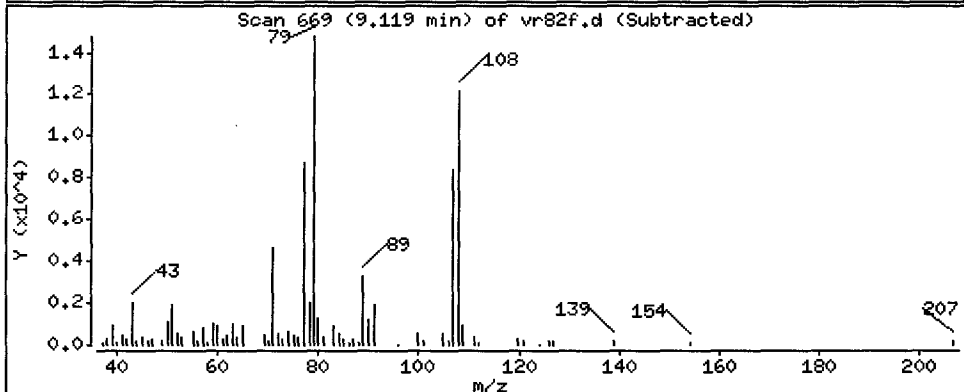
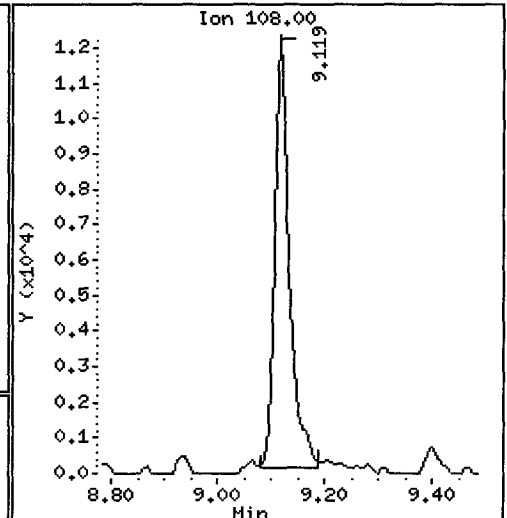
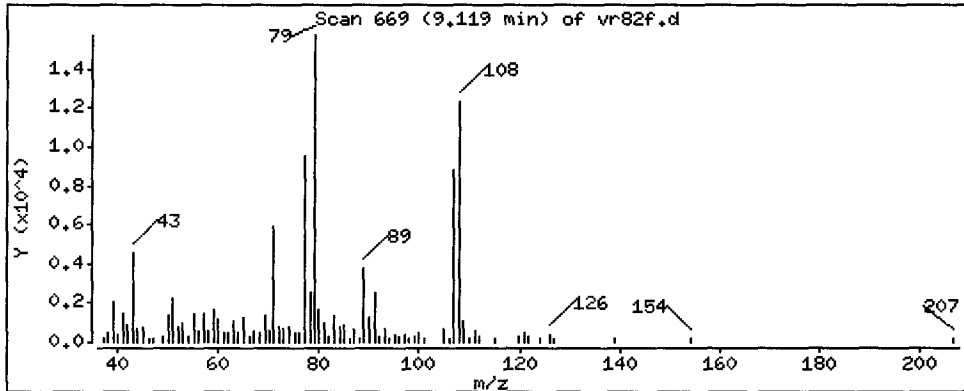
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 114.7 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

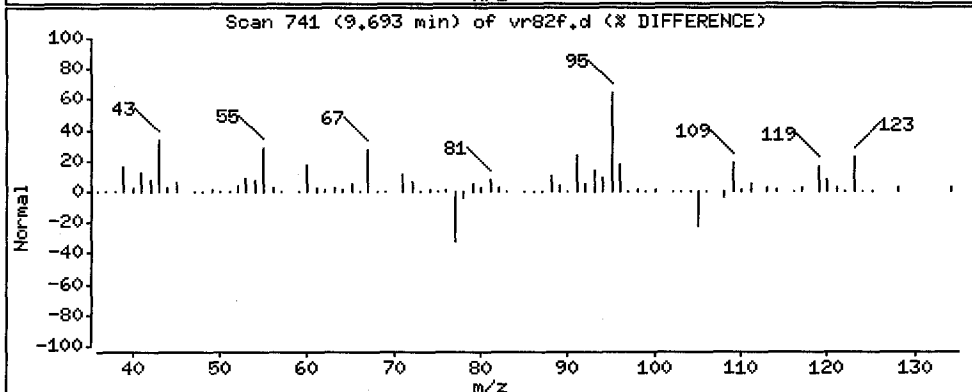
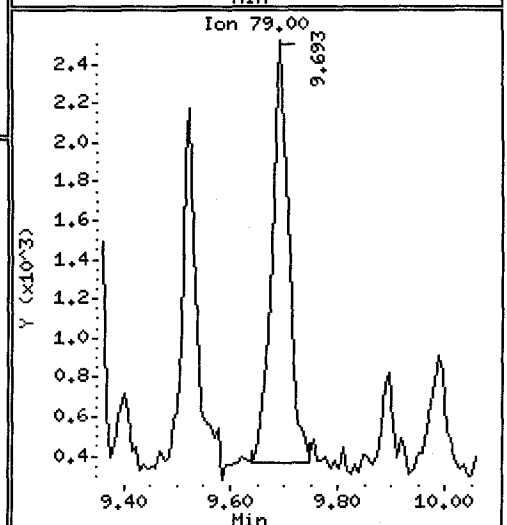
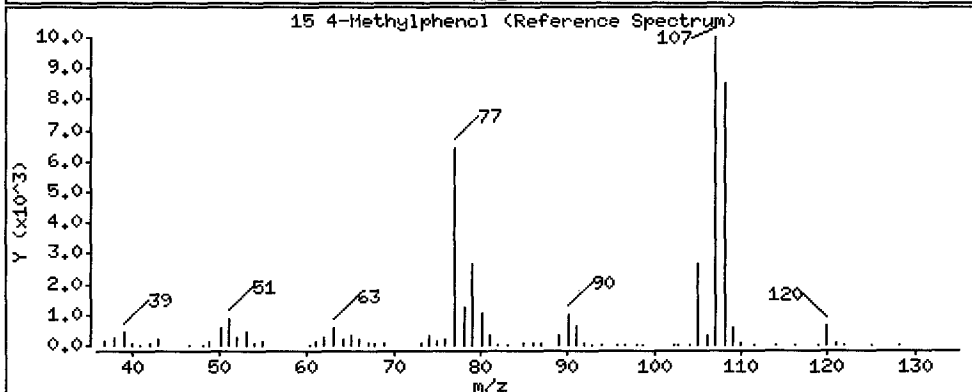
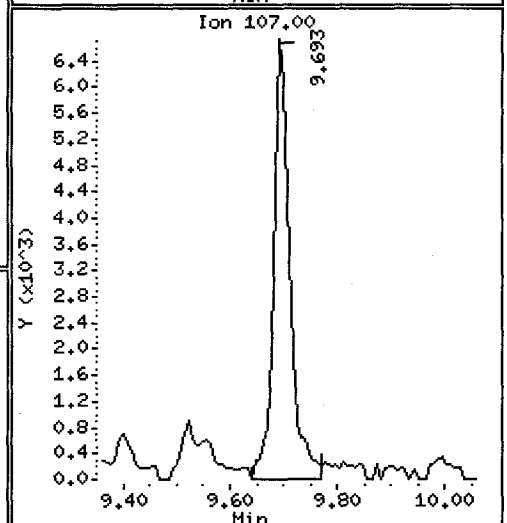
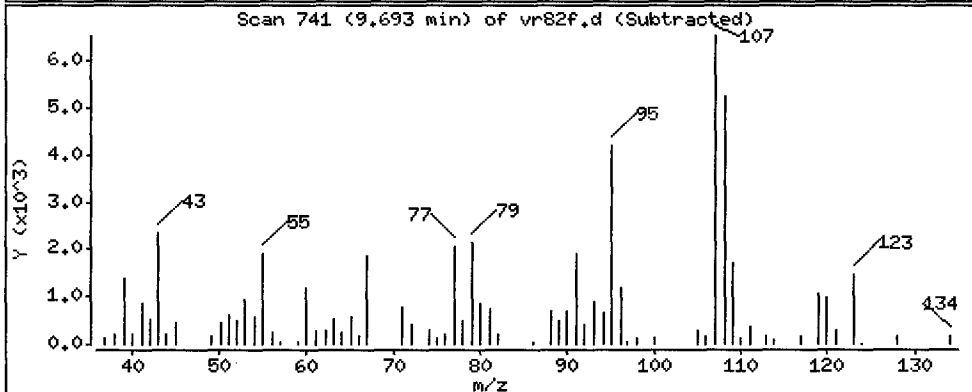
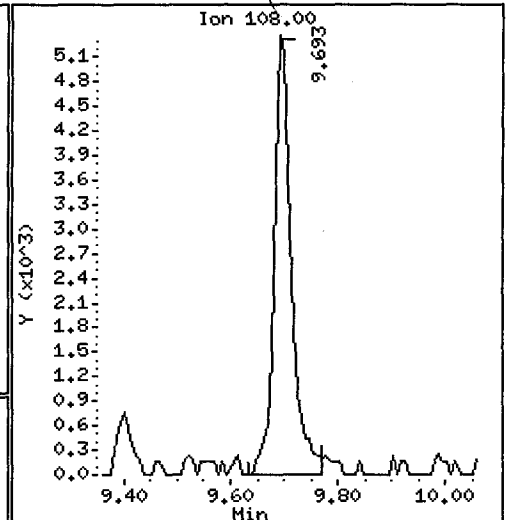
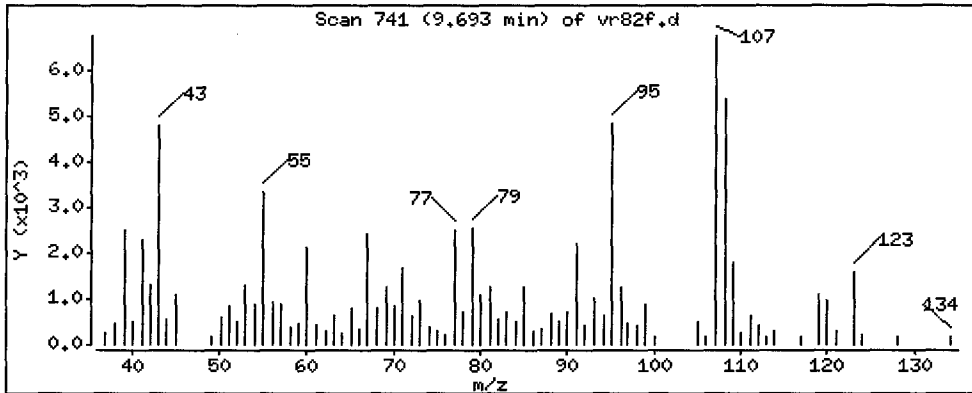
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 54.28 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

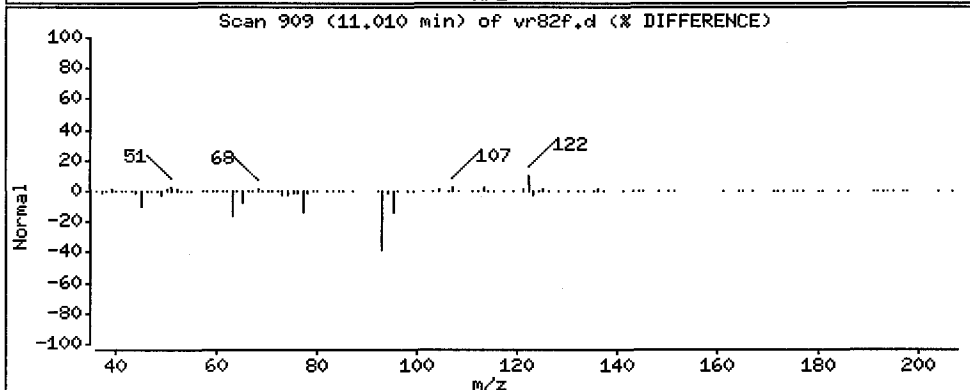
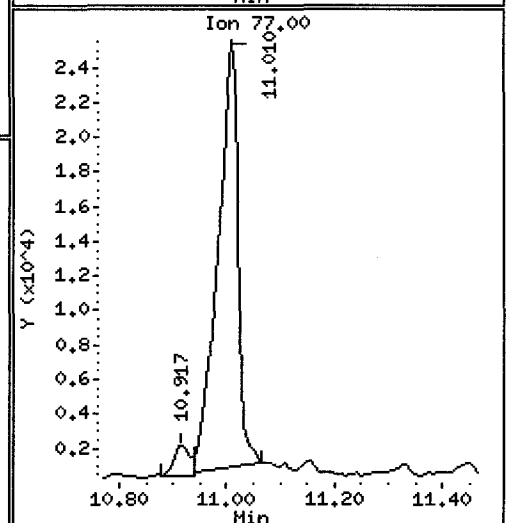
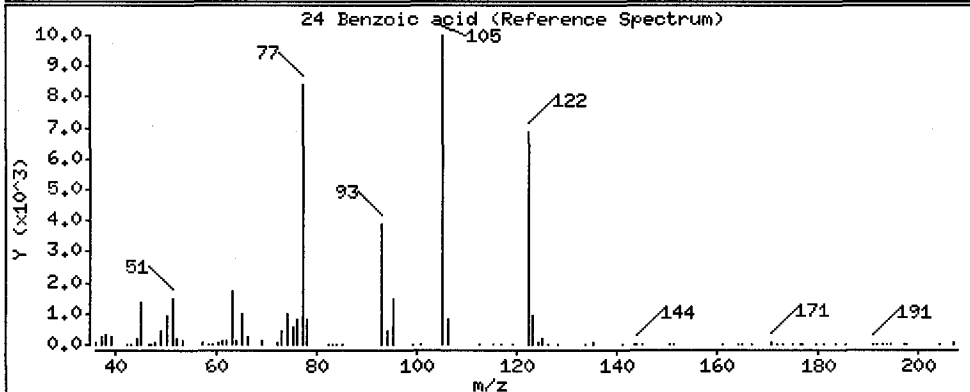
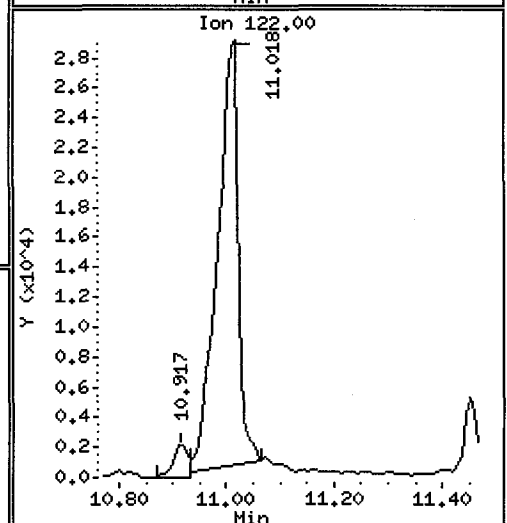
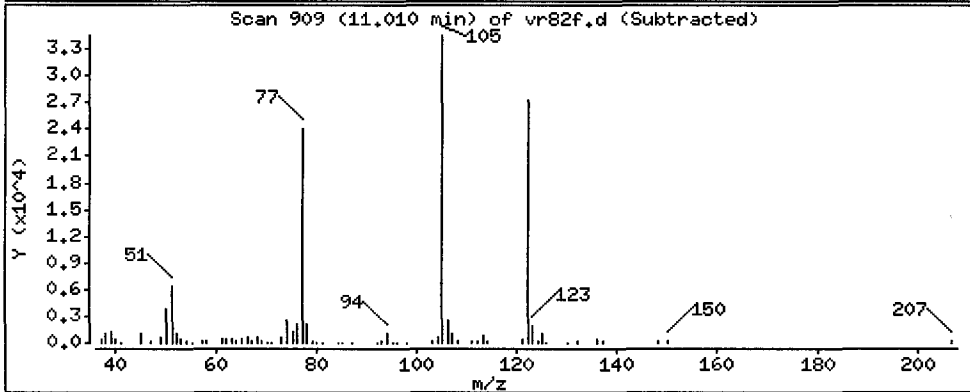
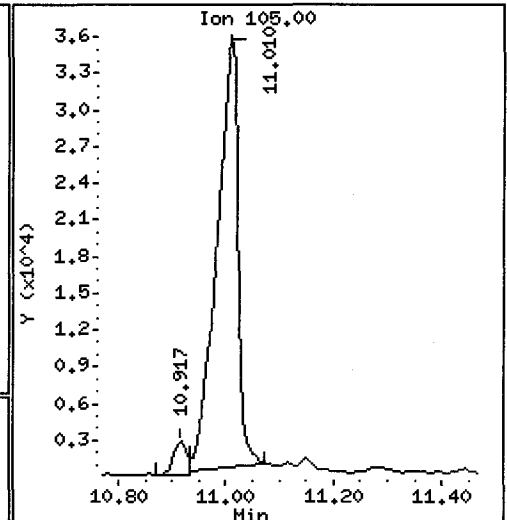
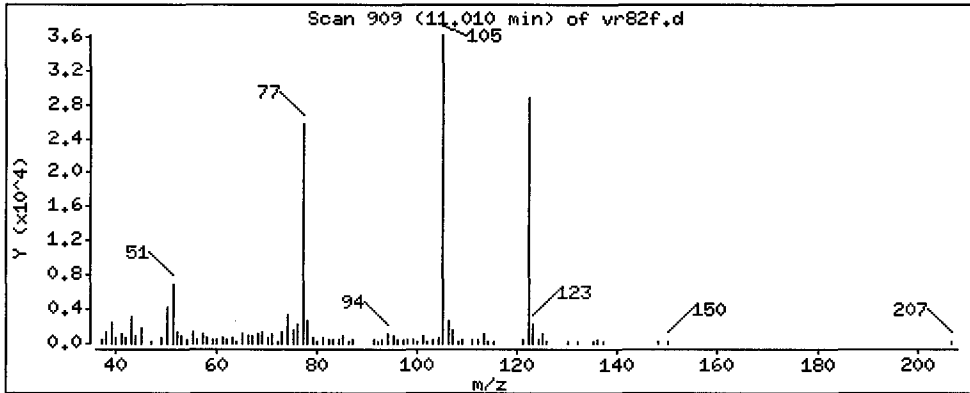
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 432.0 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

Operator: VTS/YZ

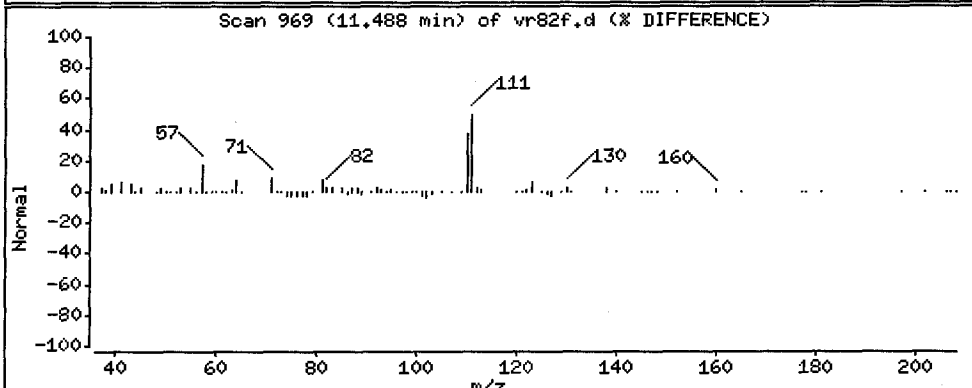
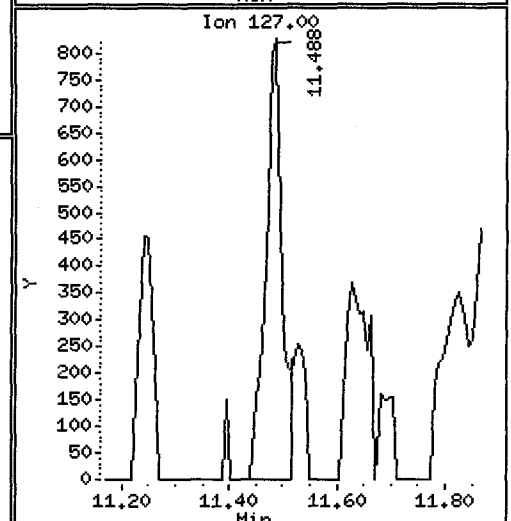
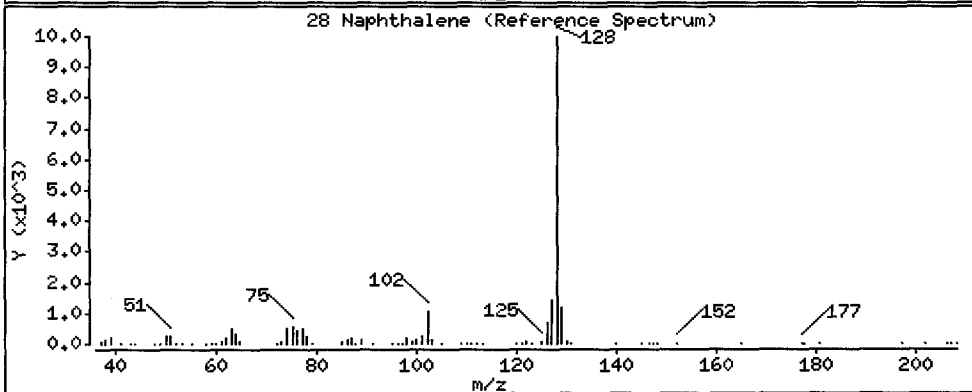
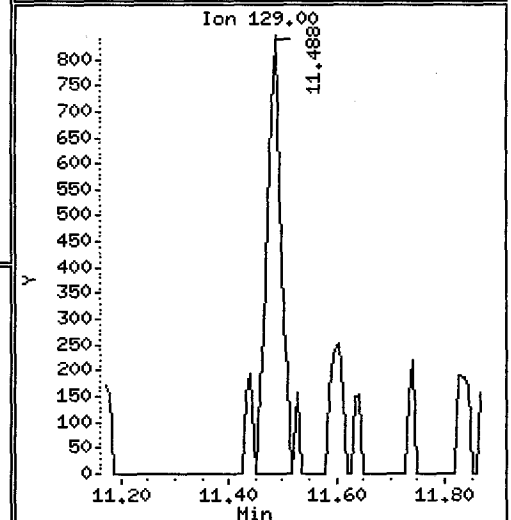
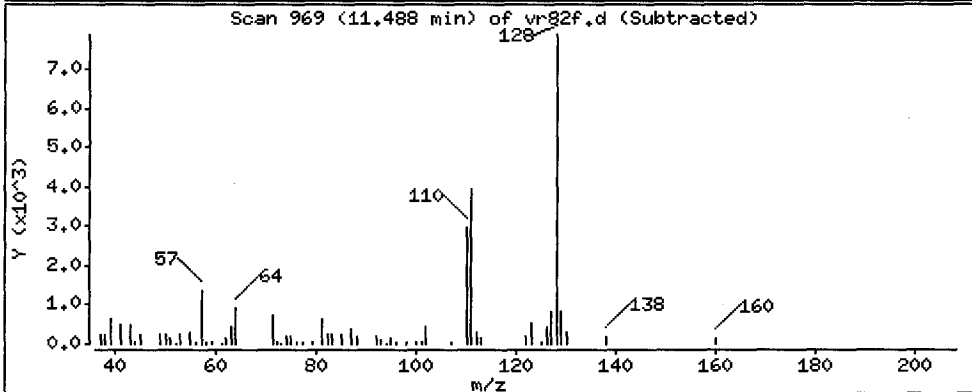
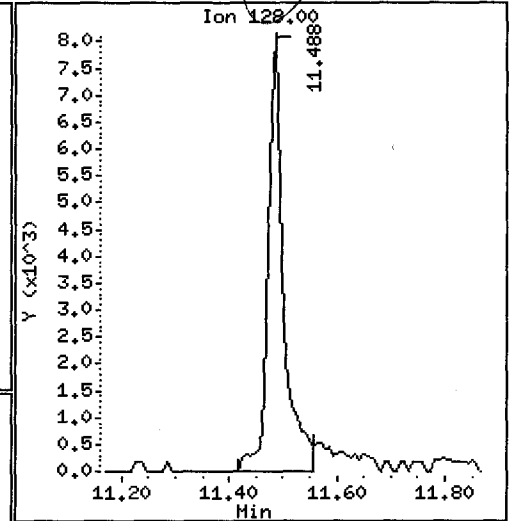
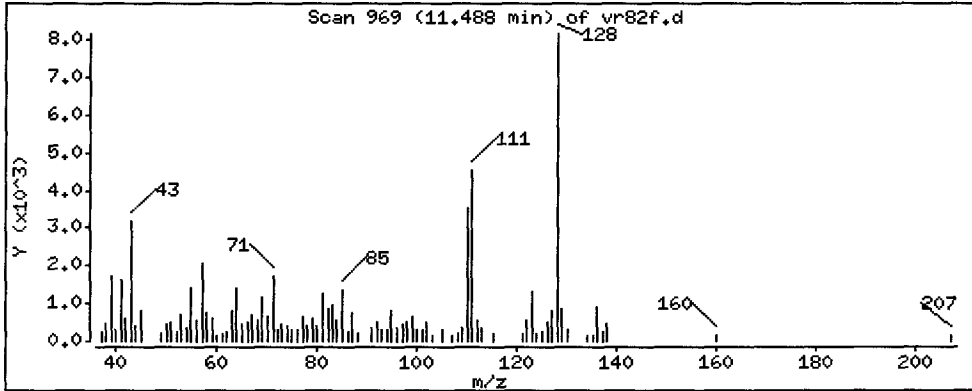
Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 17.64 ug/kg

DM



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

Operator: VTS/YZ

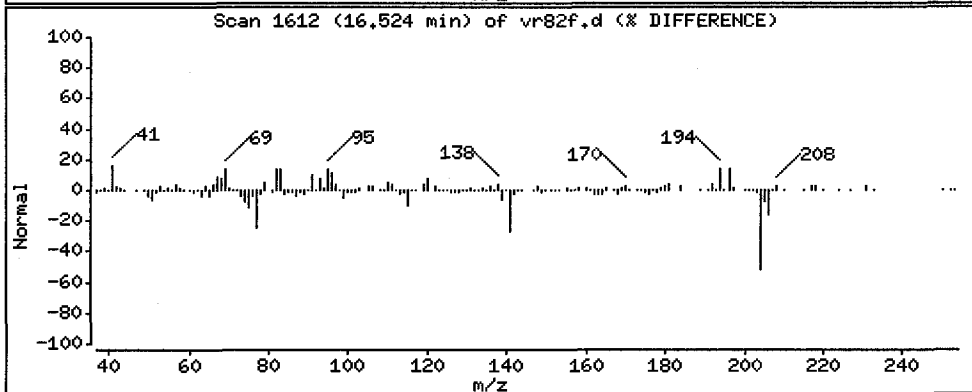
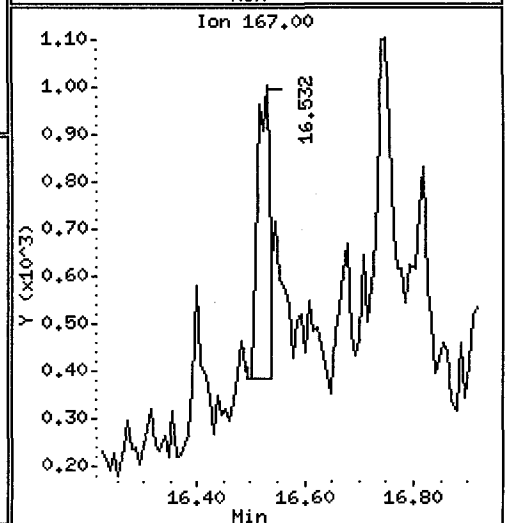
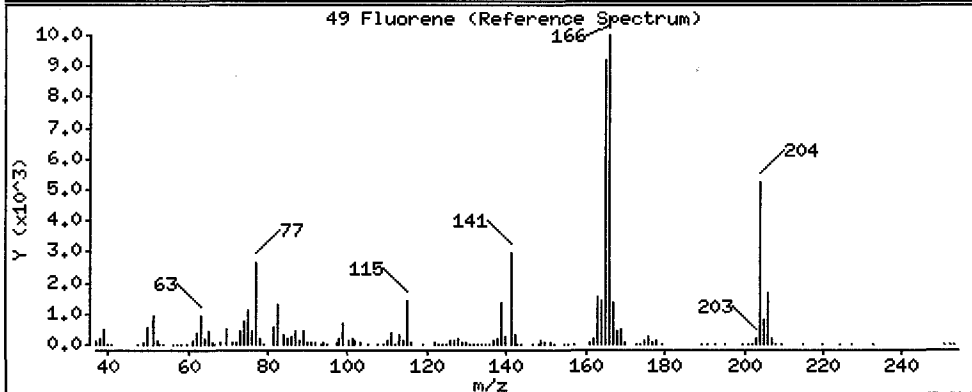
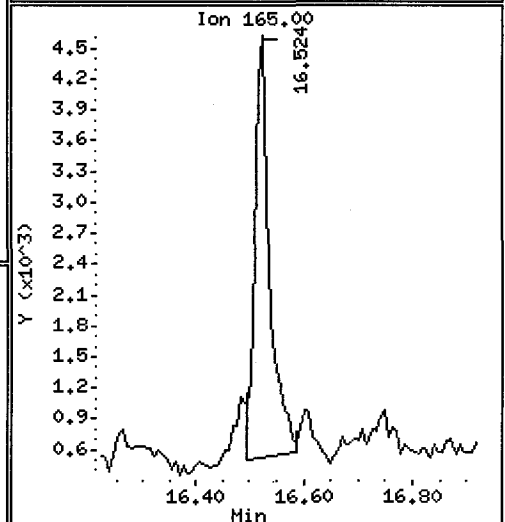
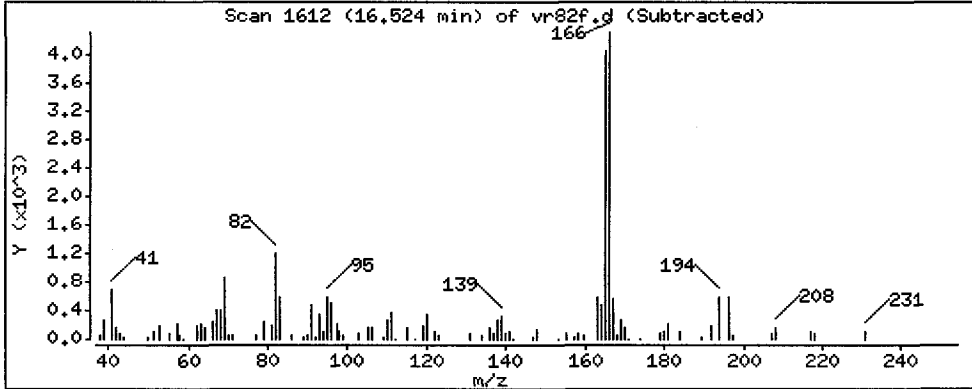
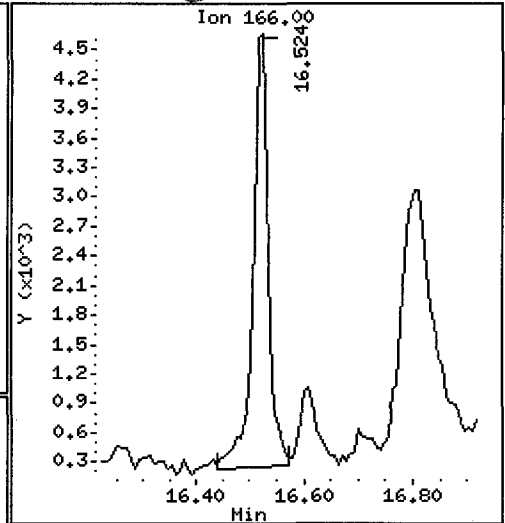
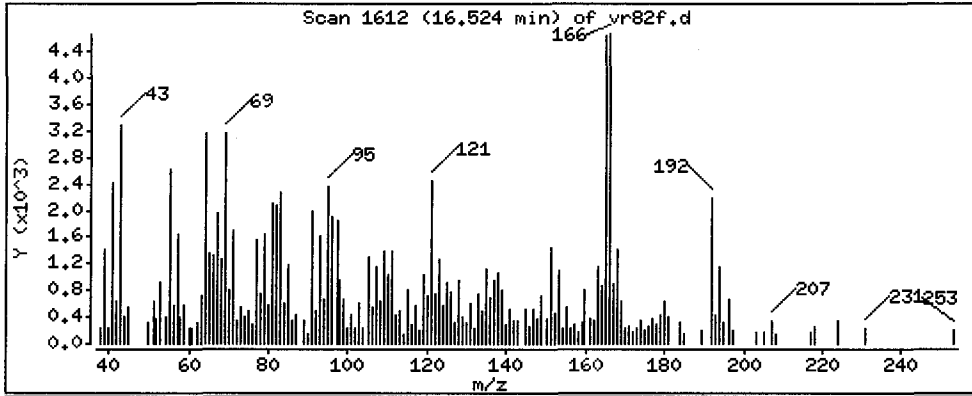
Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 11.53 ug/kg

GC/MS



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

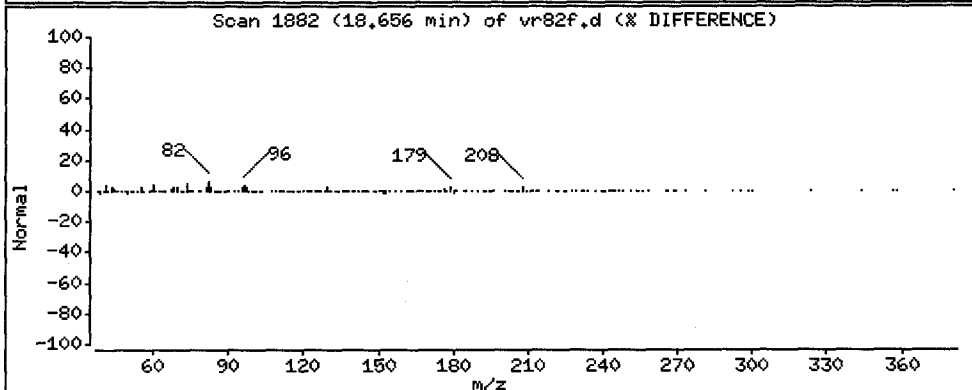
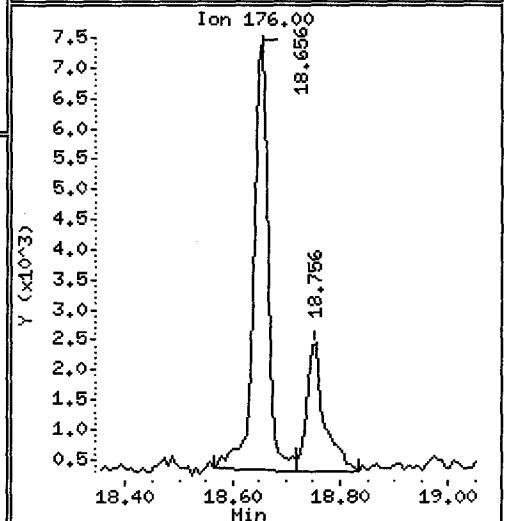
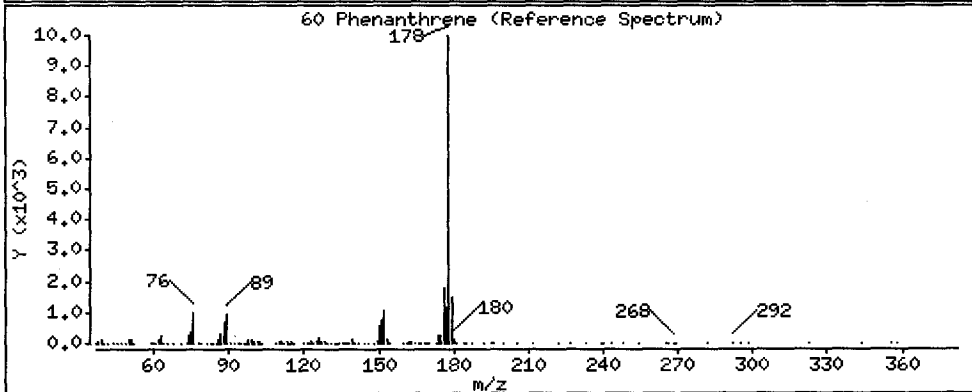
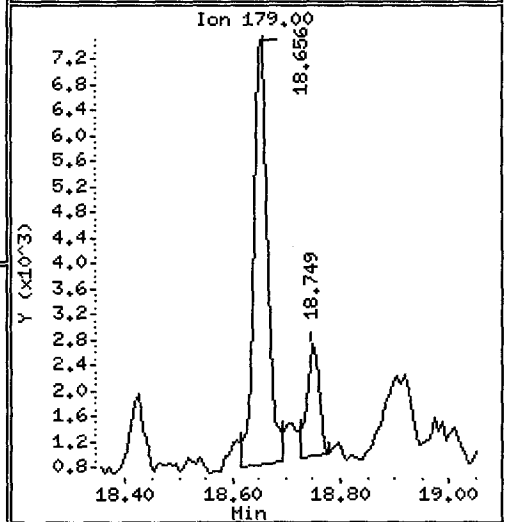
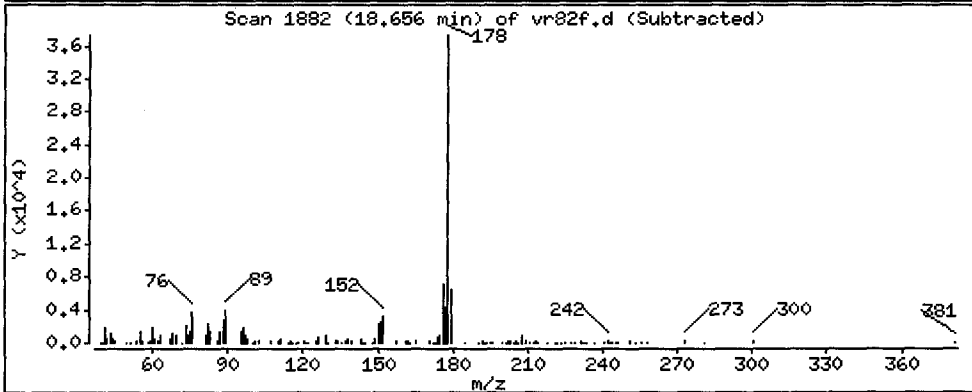
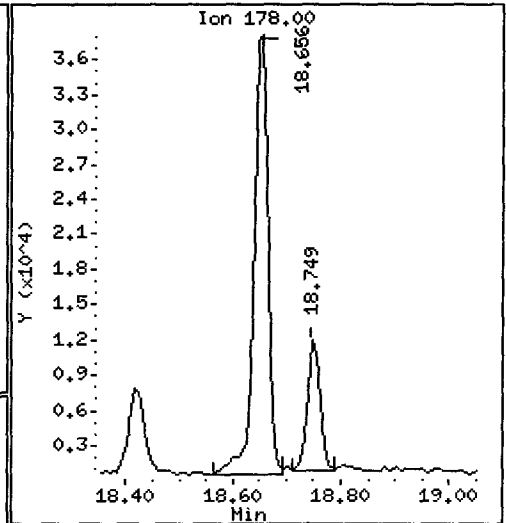
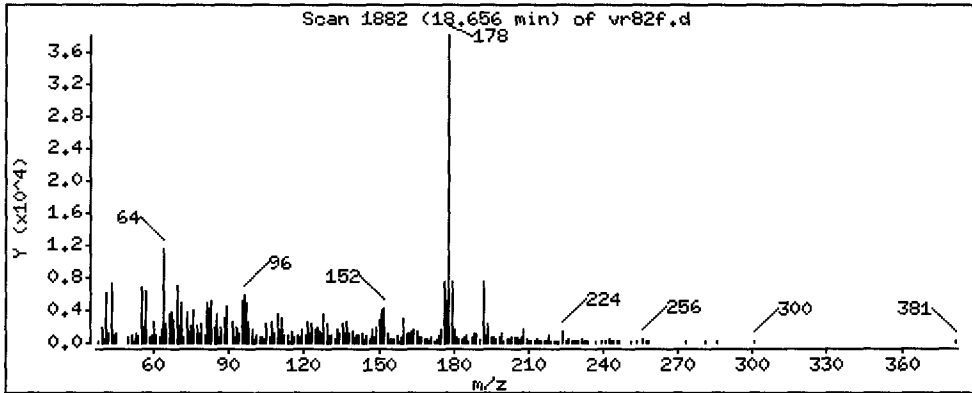
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 71.41 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

Operator: VTS/YZ

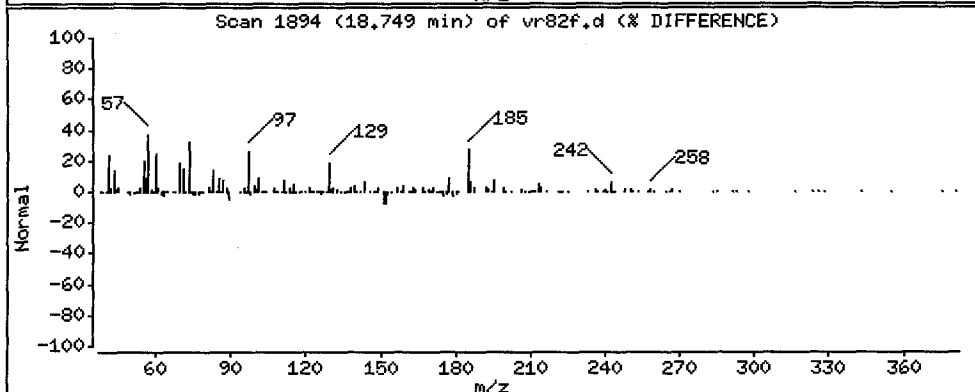
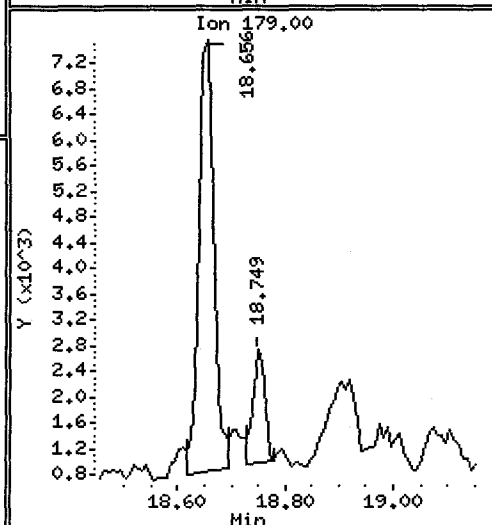
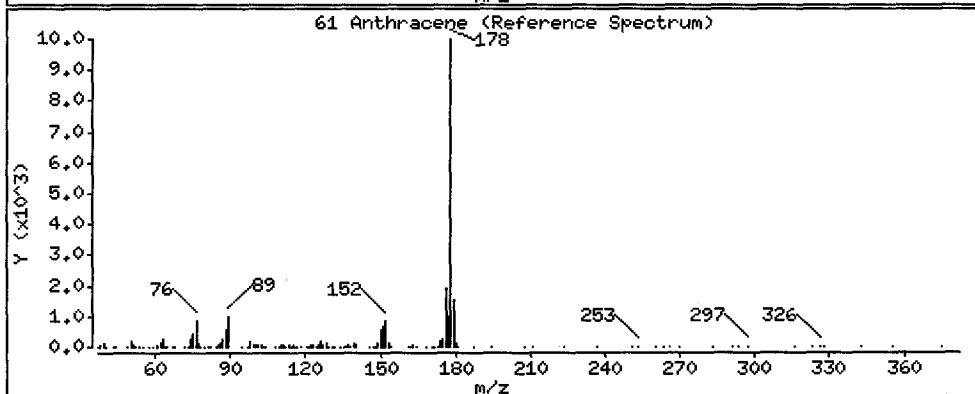
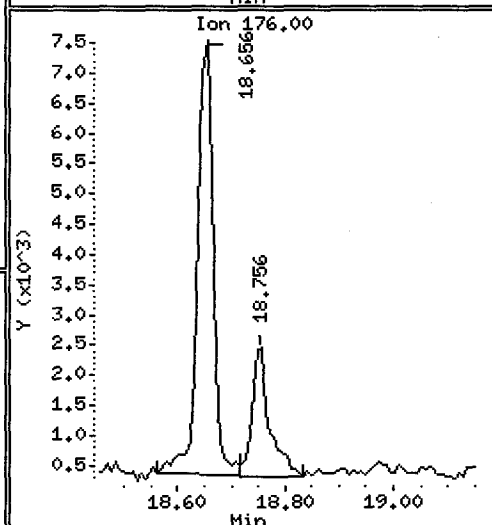
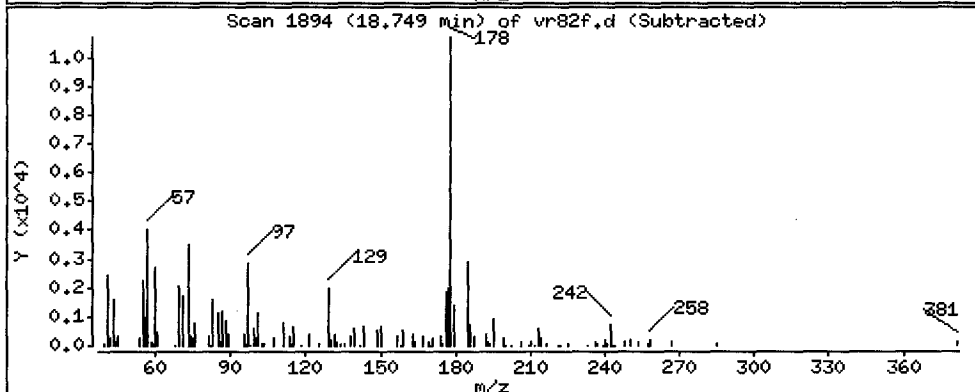
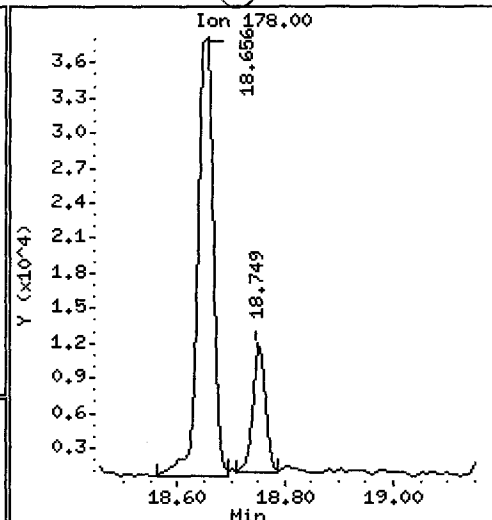
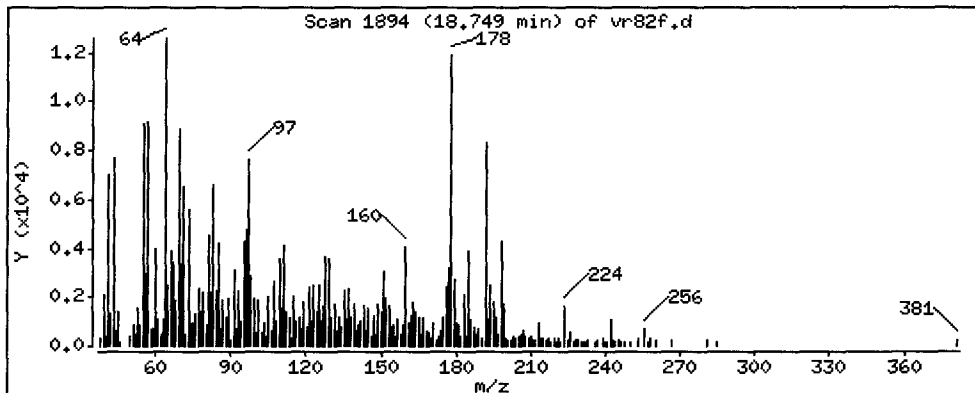
Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 17.27 ug/kg

Handwritten signature



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

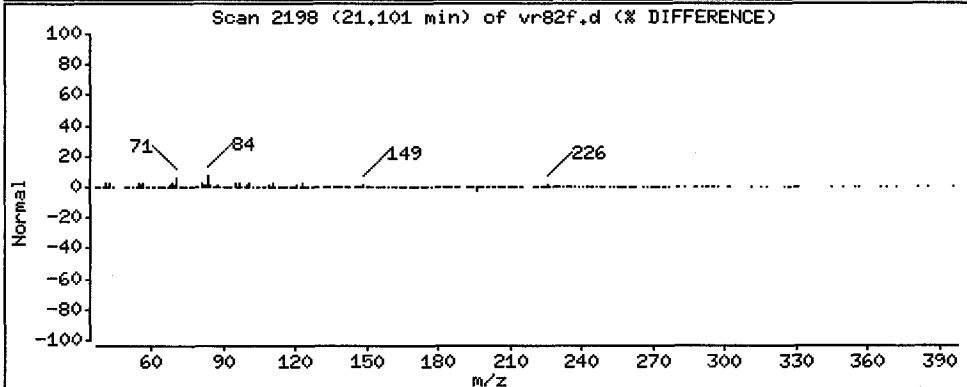
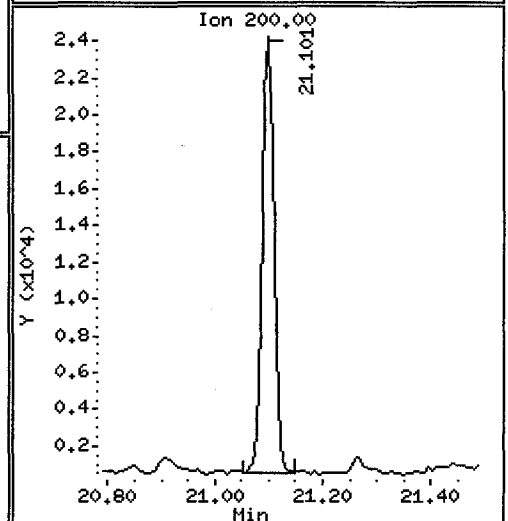
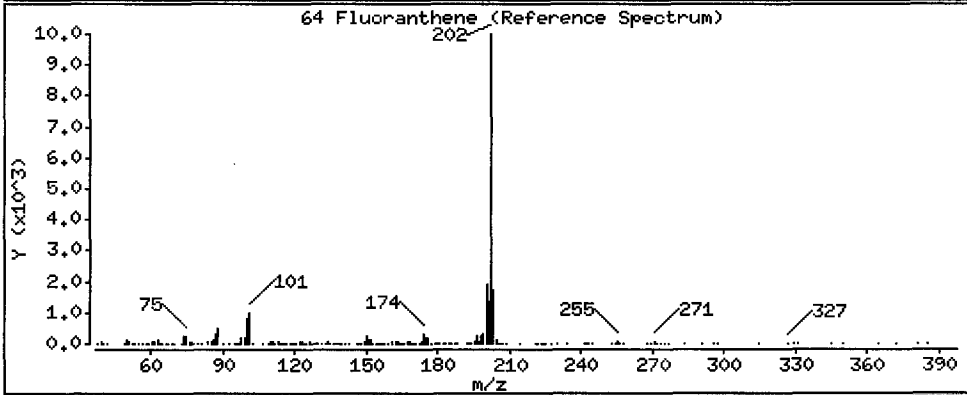
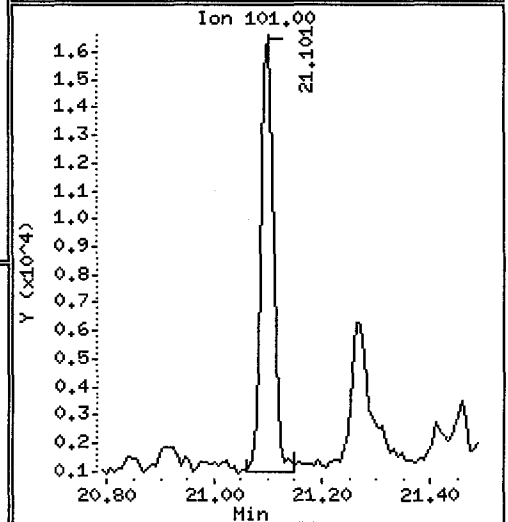
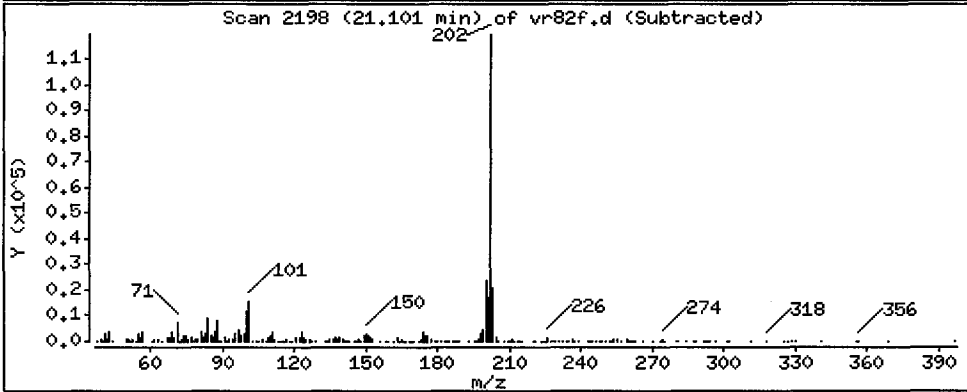
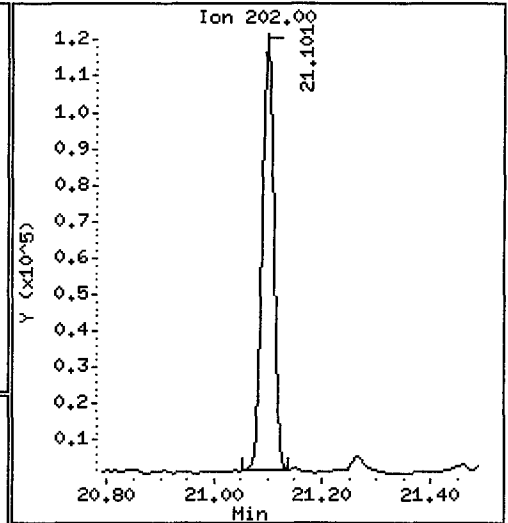
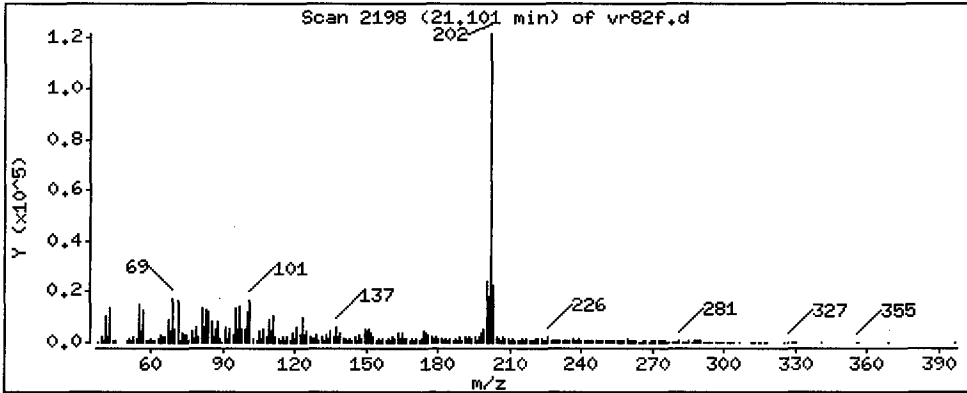
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 149.6 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

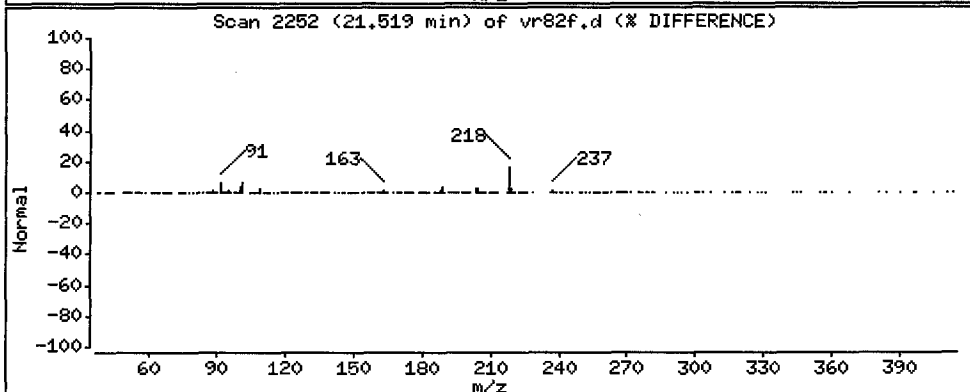
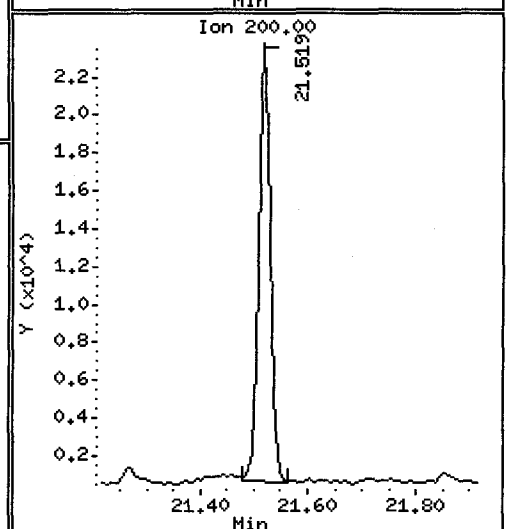
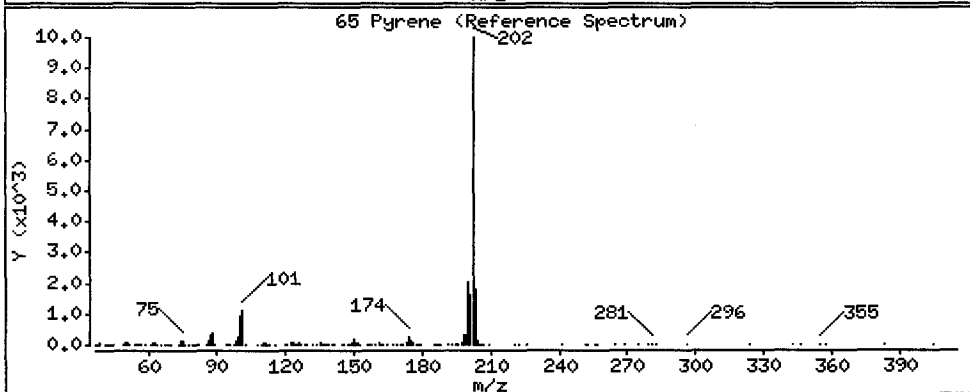
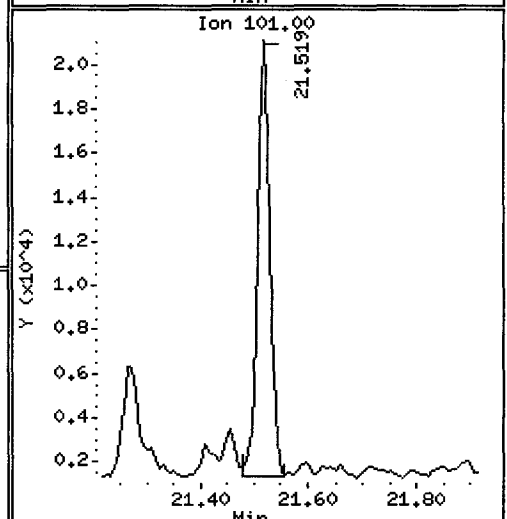
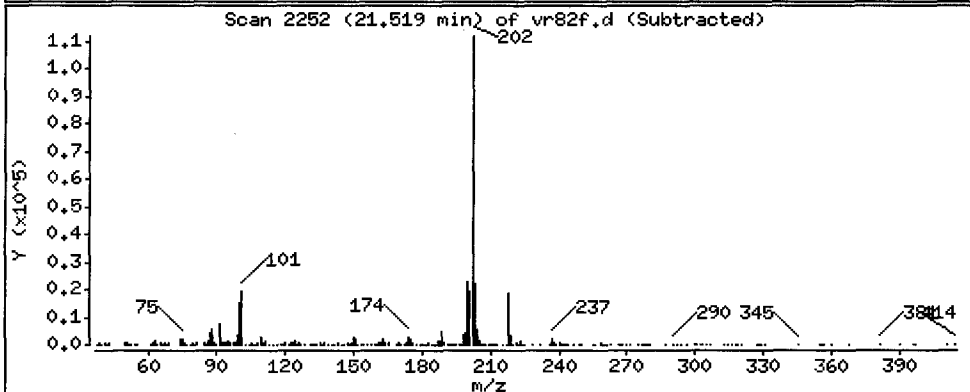
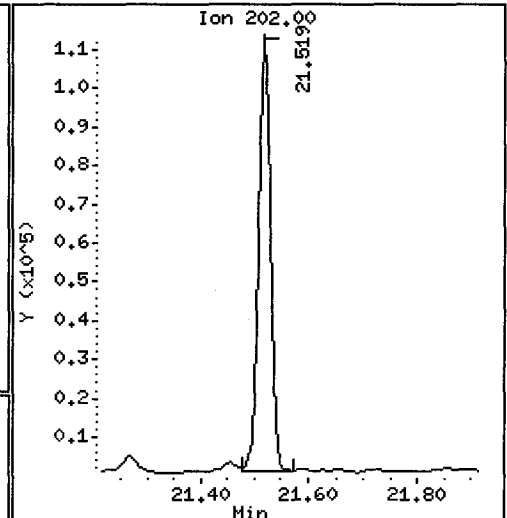
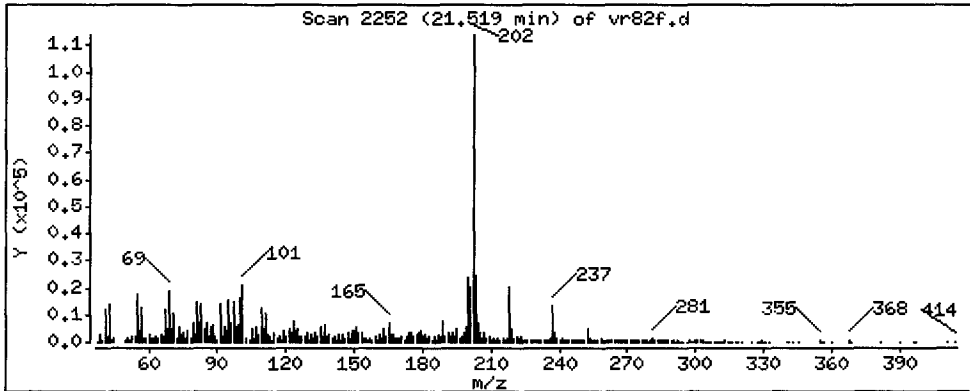
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 138.6 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

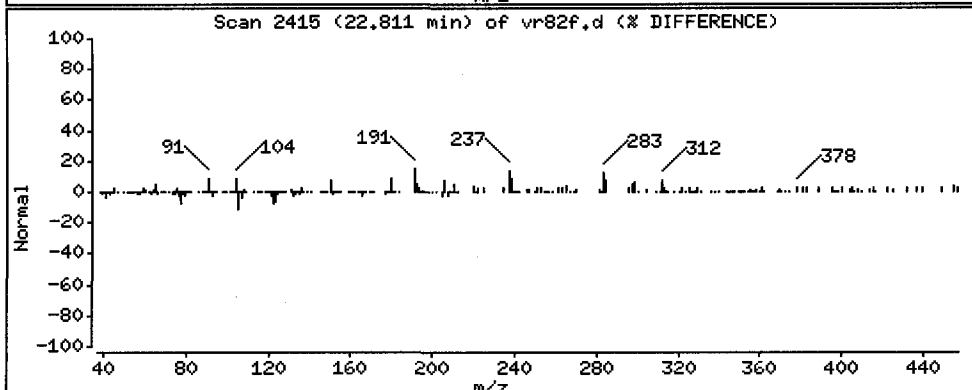
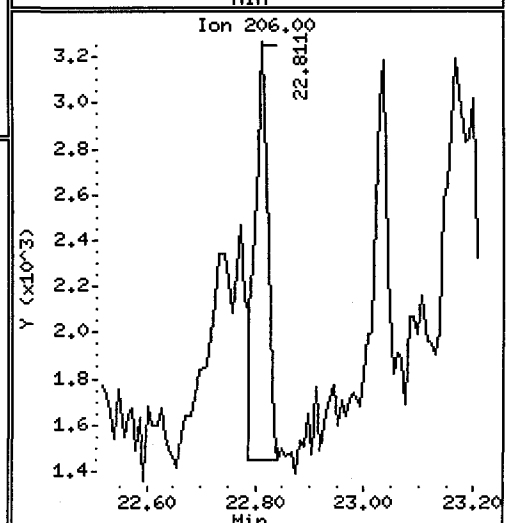
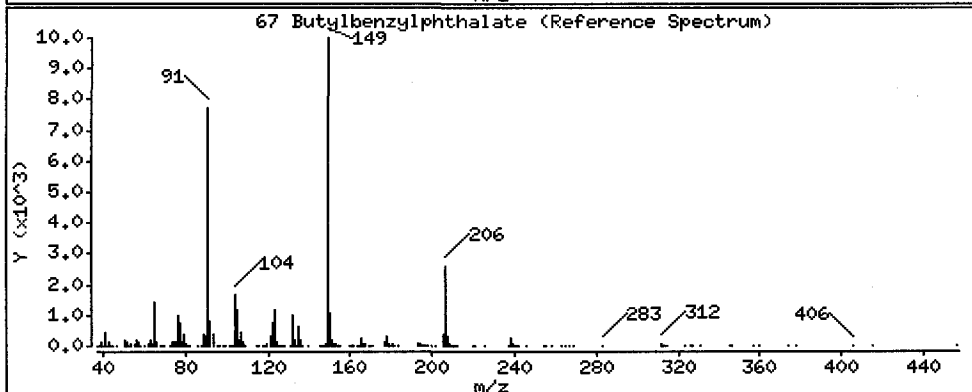
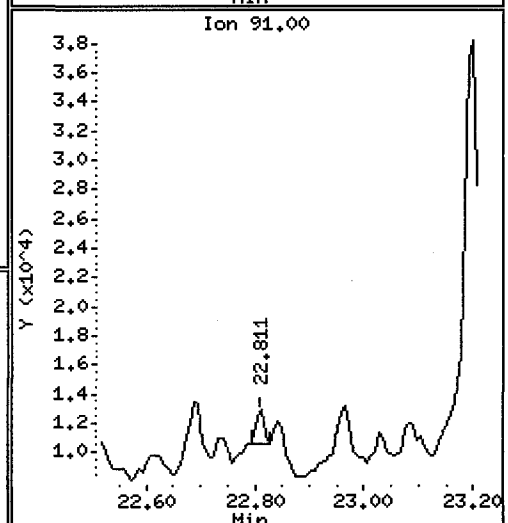
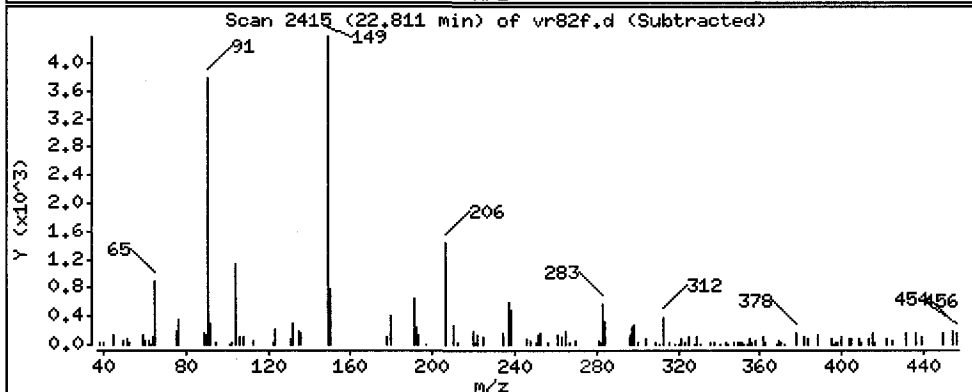
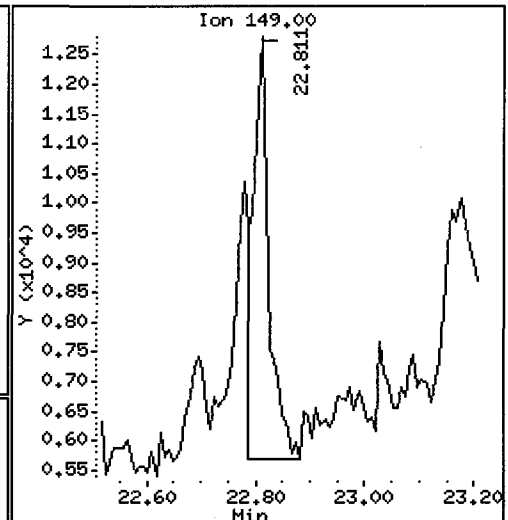
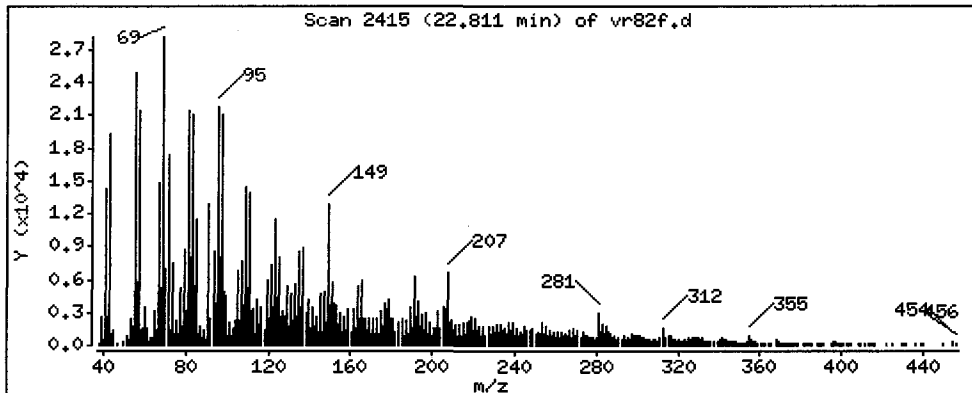
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 29.41 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

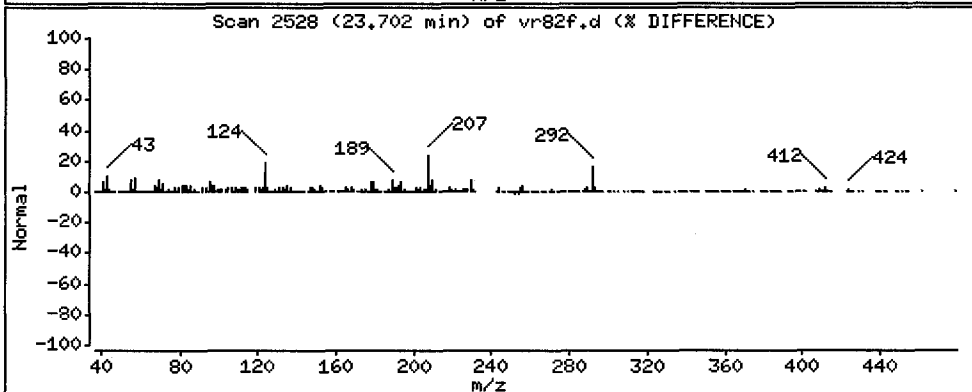
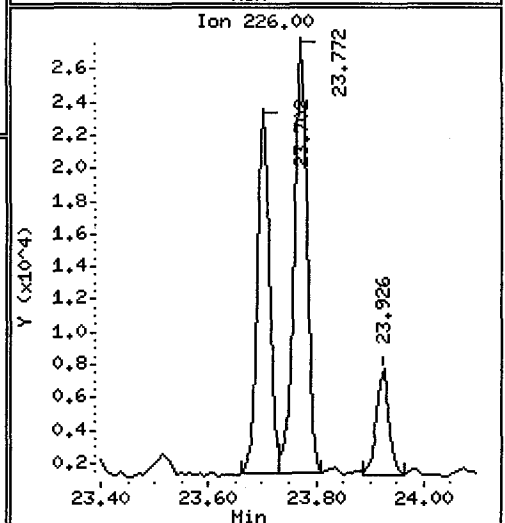
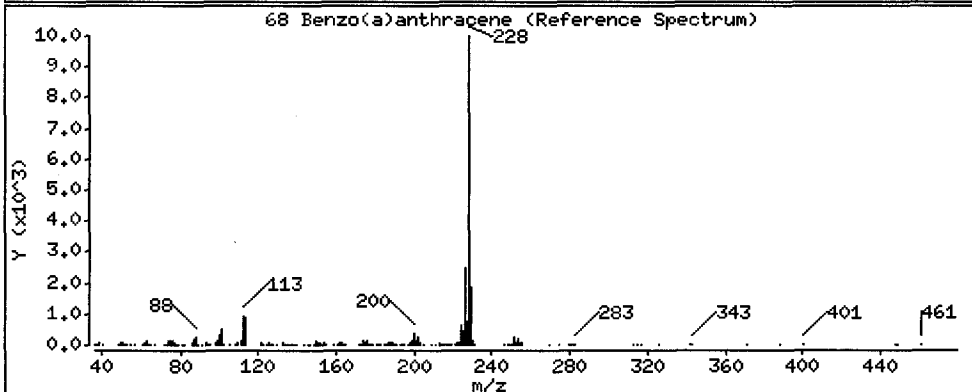
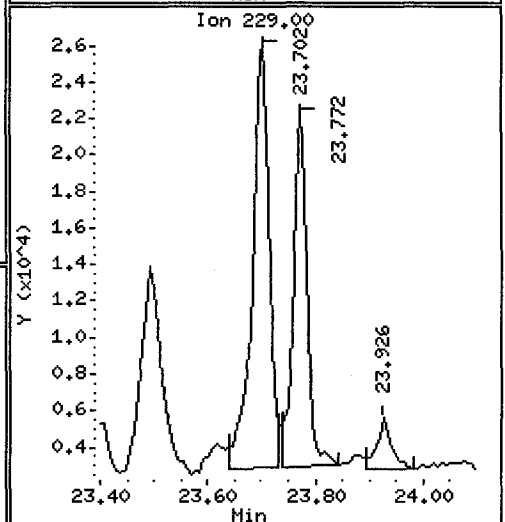
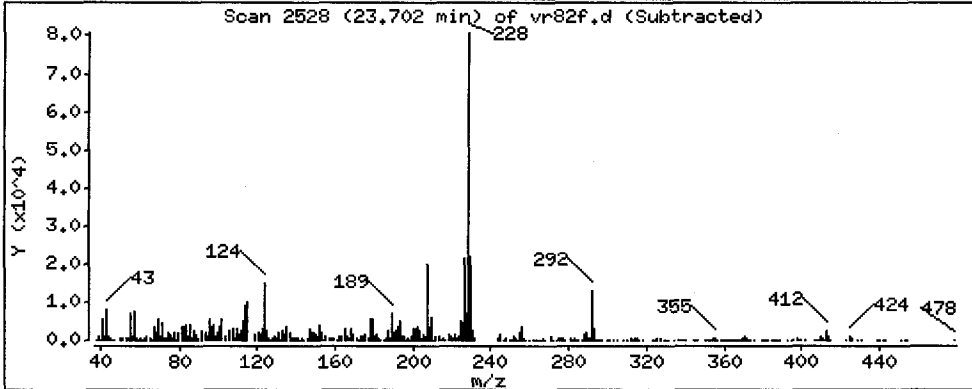
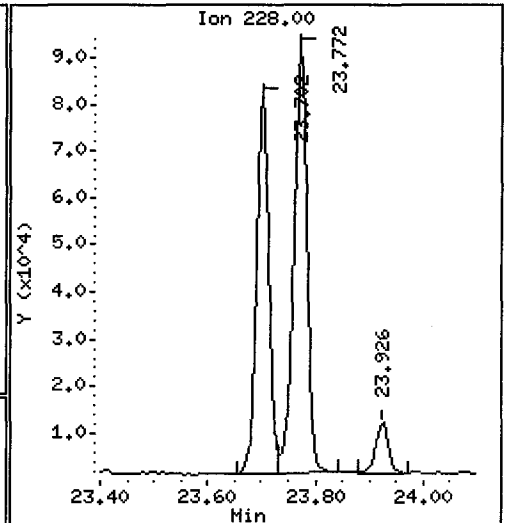
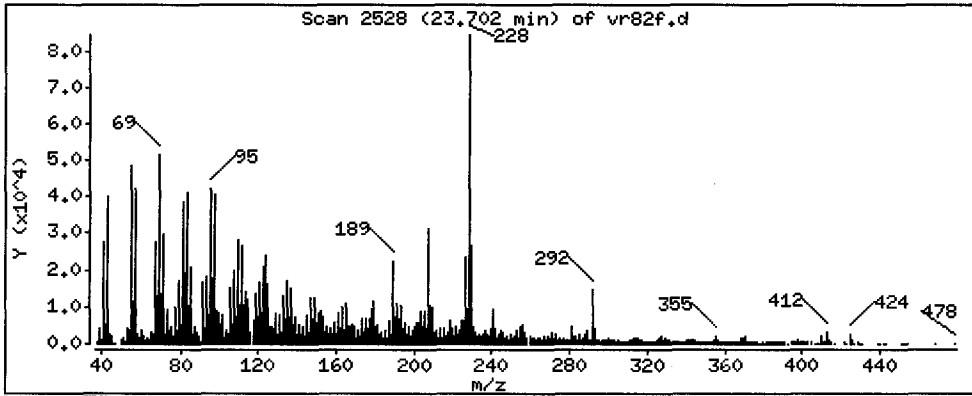
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 106.3 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

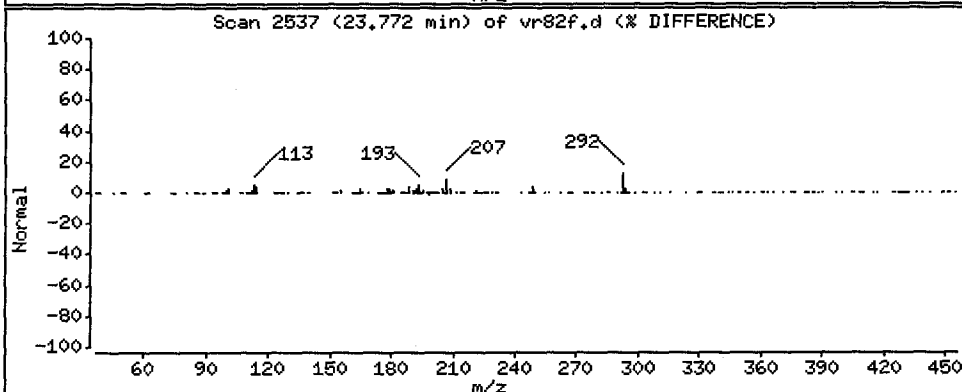
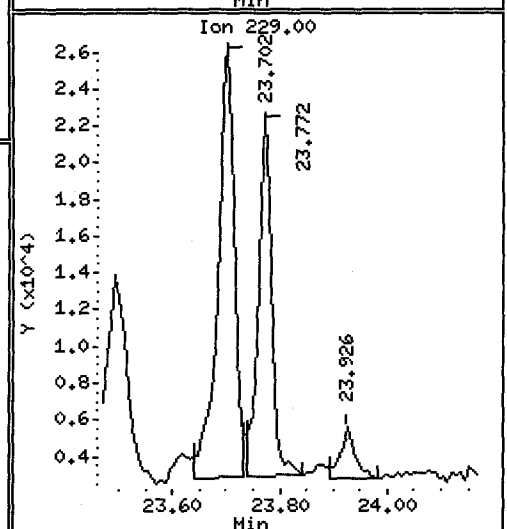
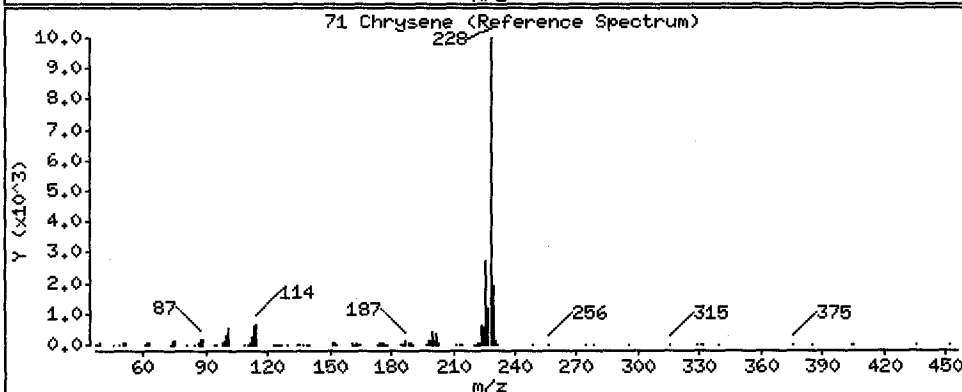
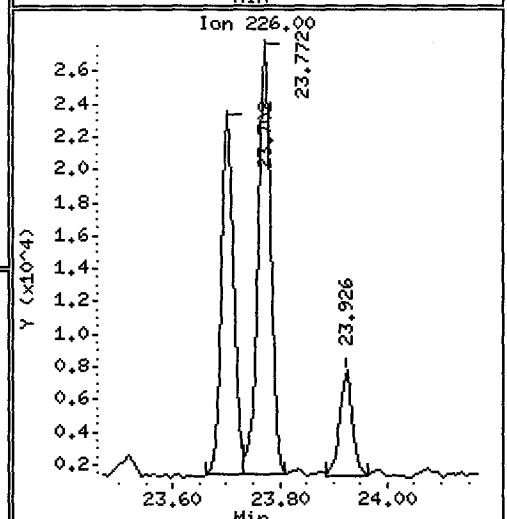
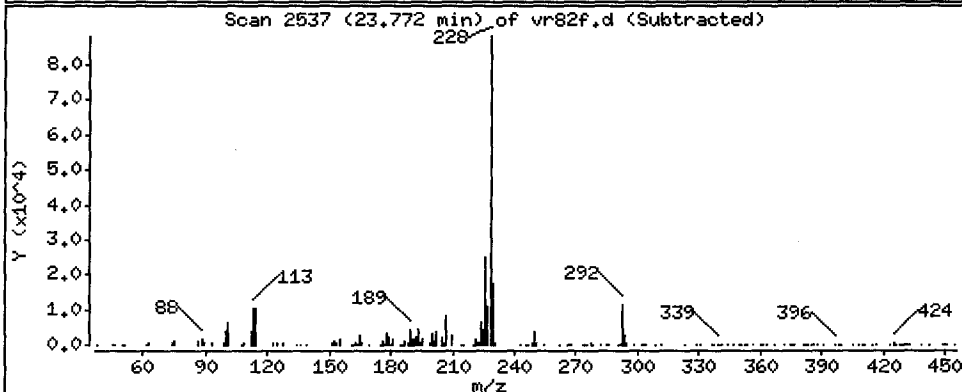
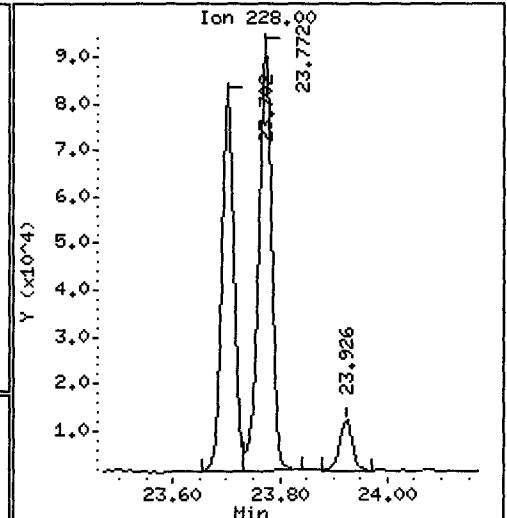
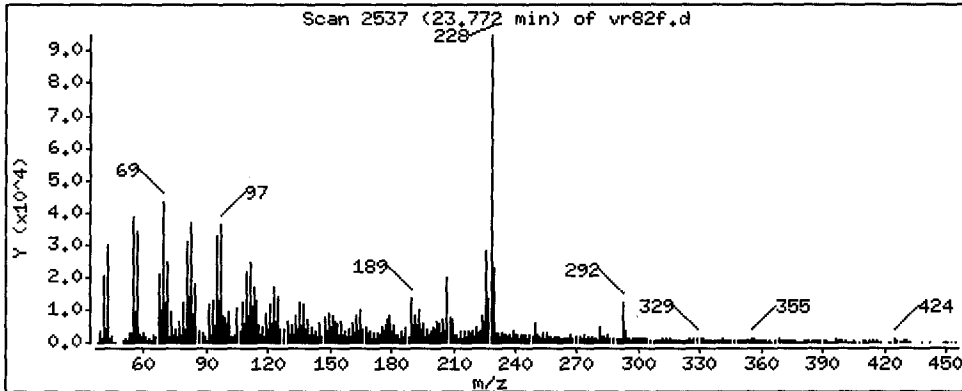
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 143.2 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

Operator: VTS/YZ

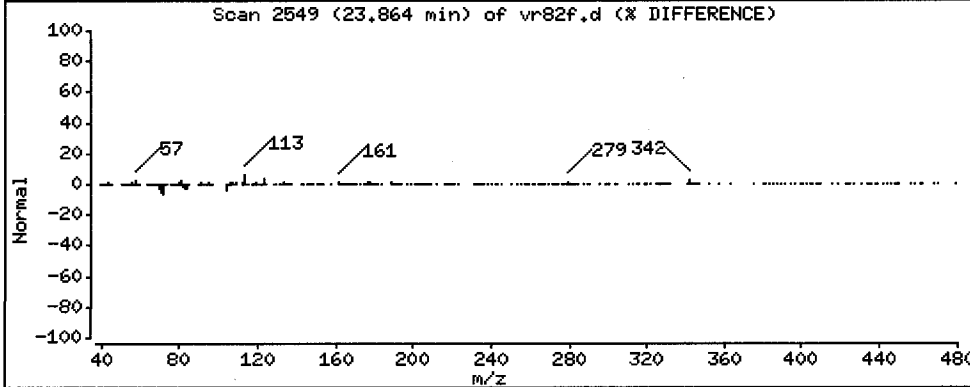
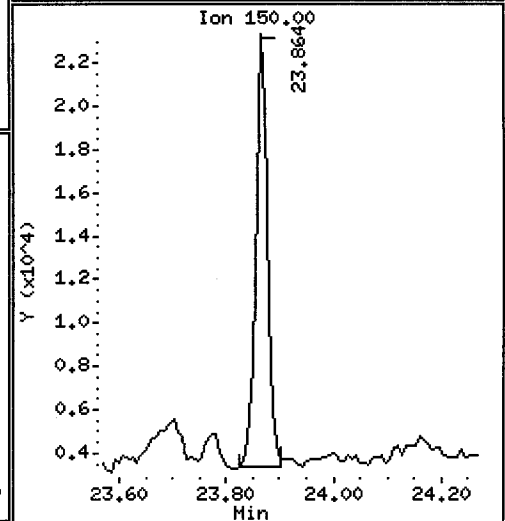
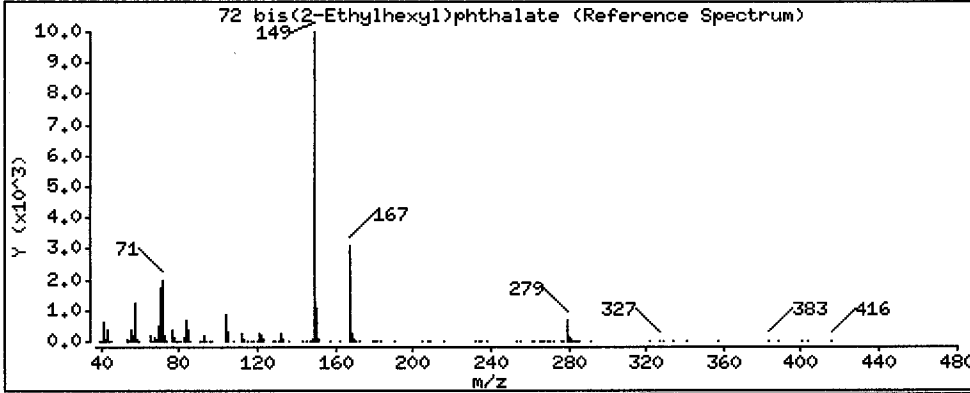
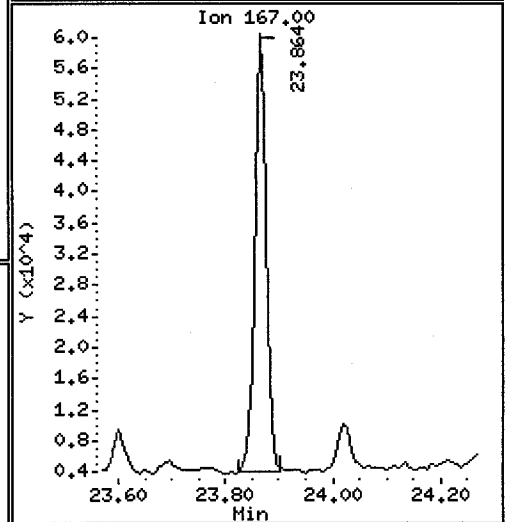
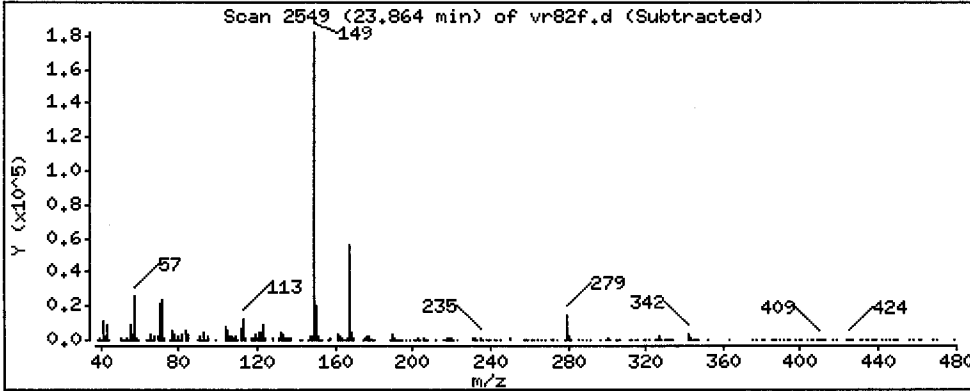
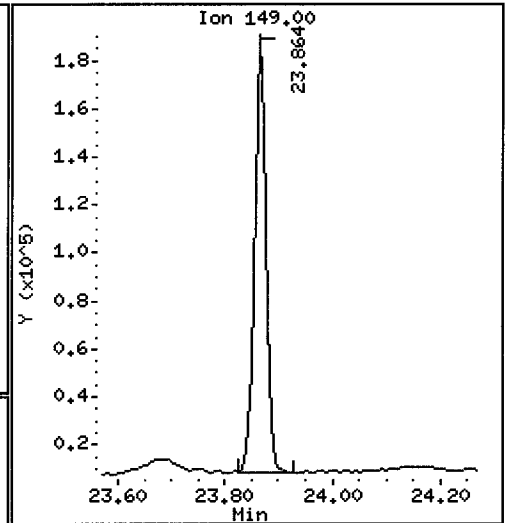
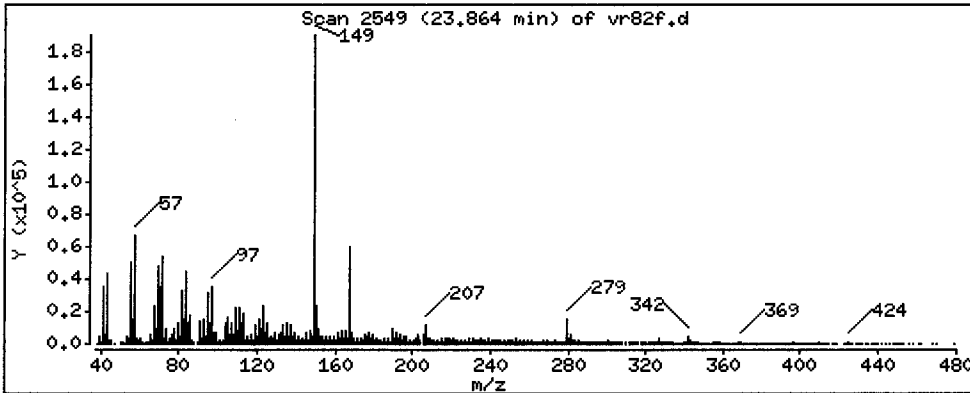
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 330.6 ug/kg

3



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

Operator: VTS/YZ

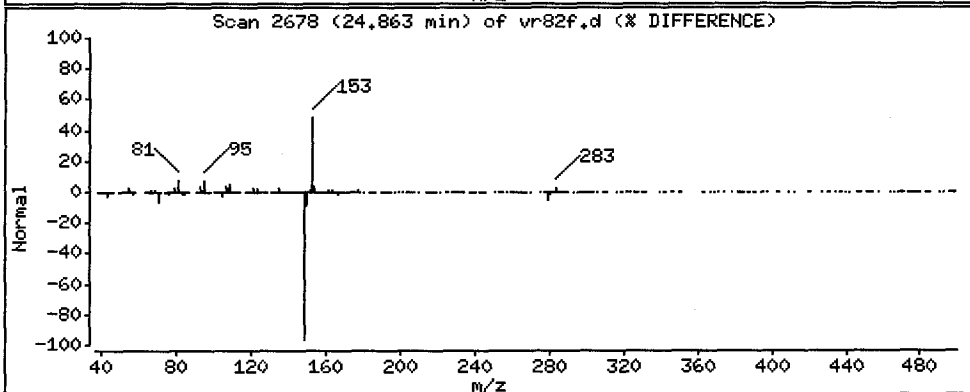
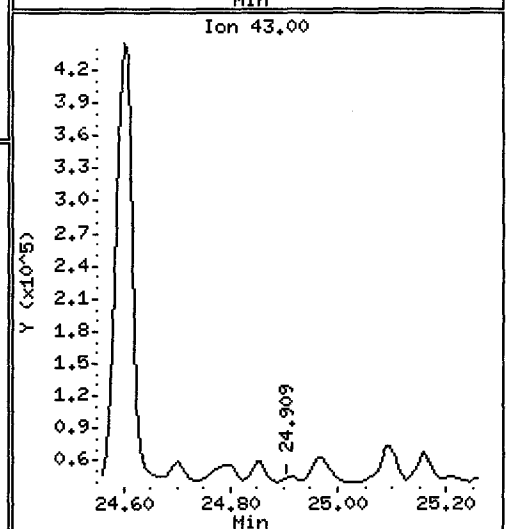
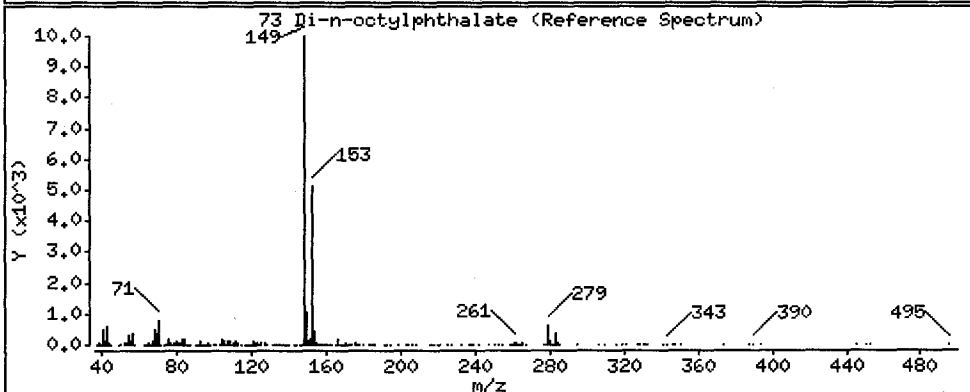
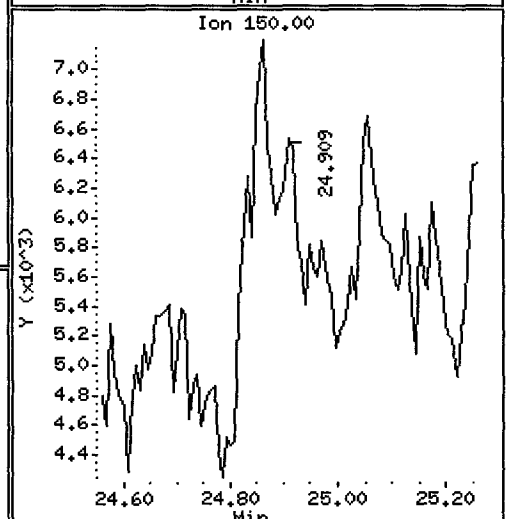
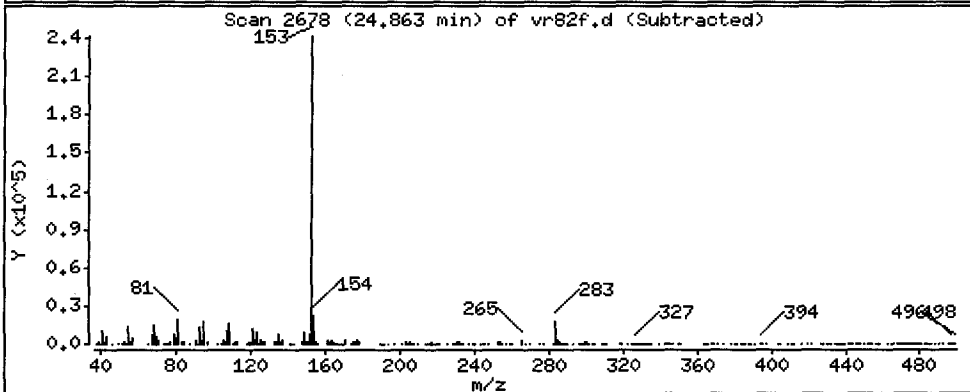
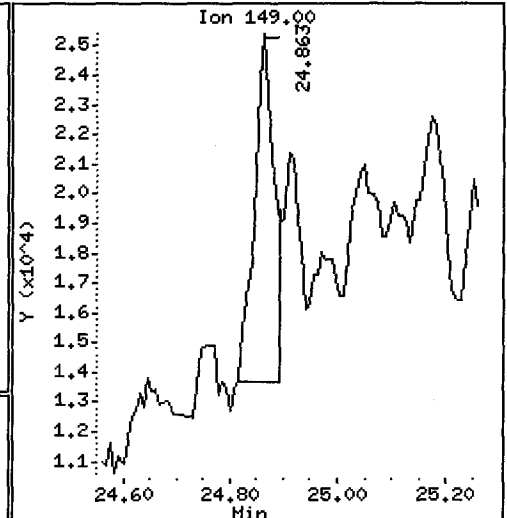
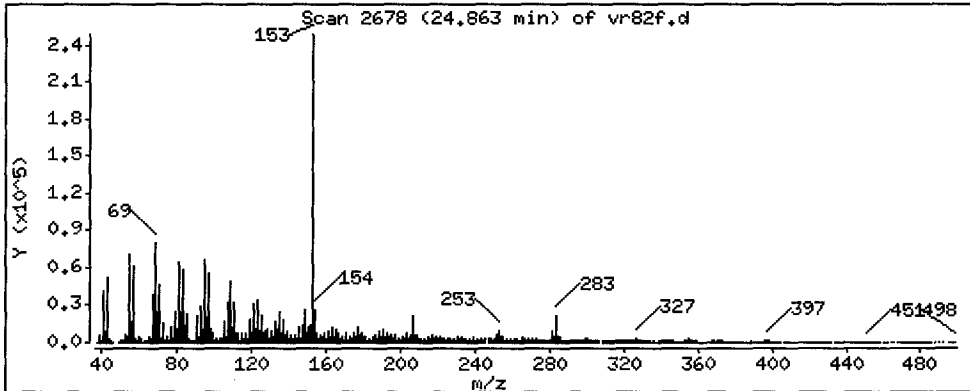
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 22.81 ug/kg

(M)



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

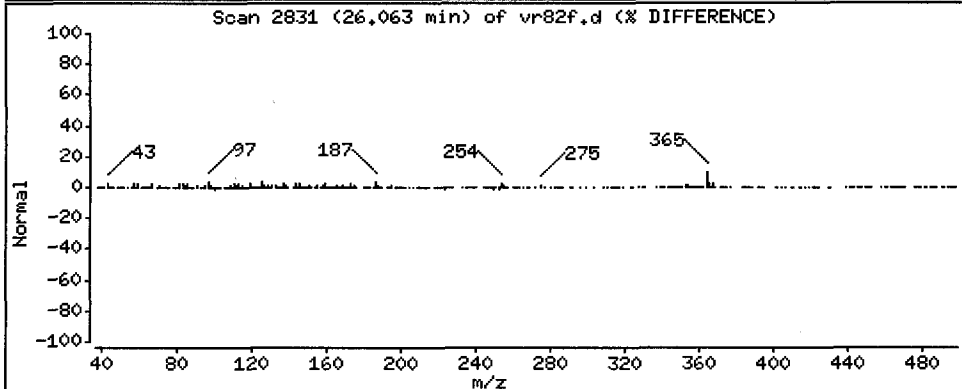
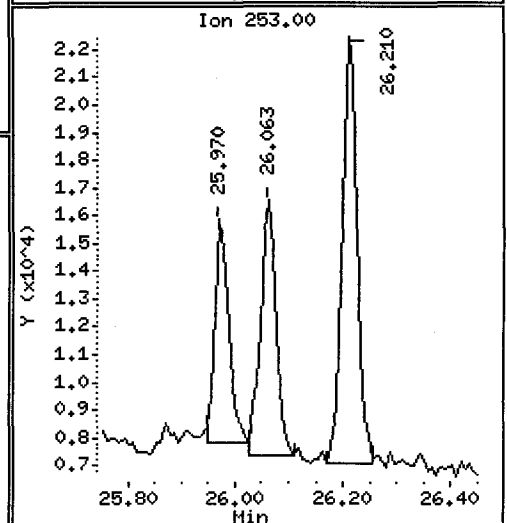
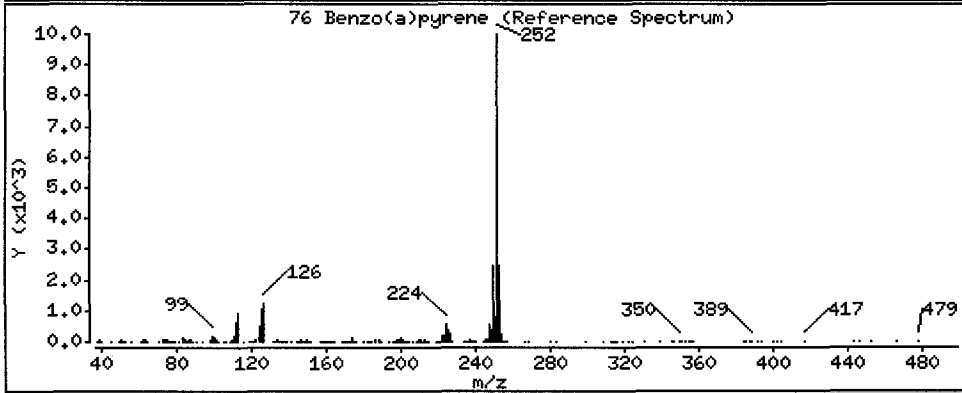
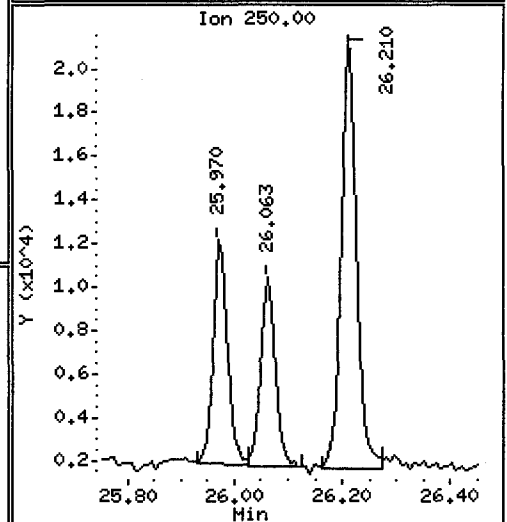
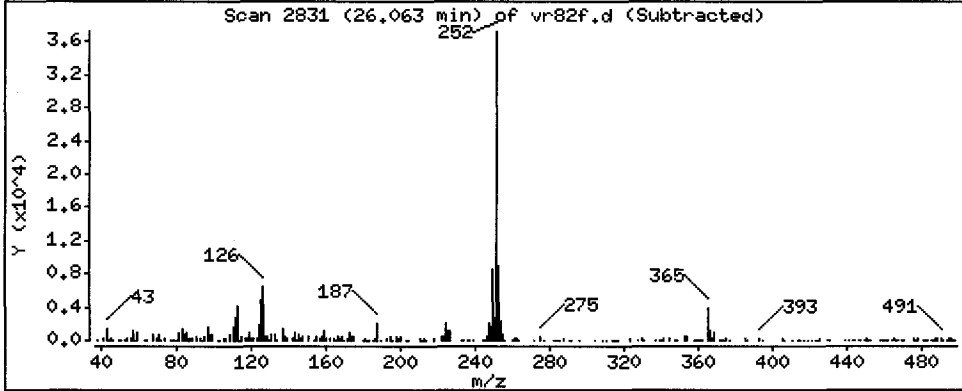
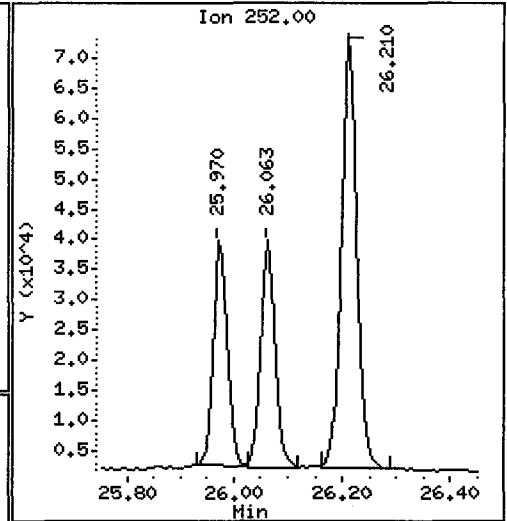
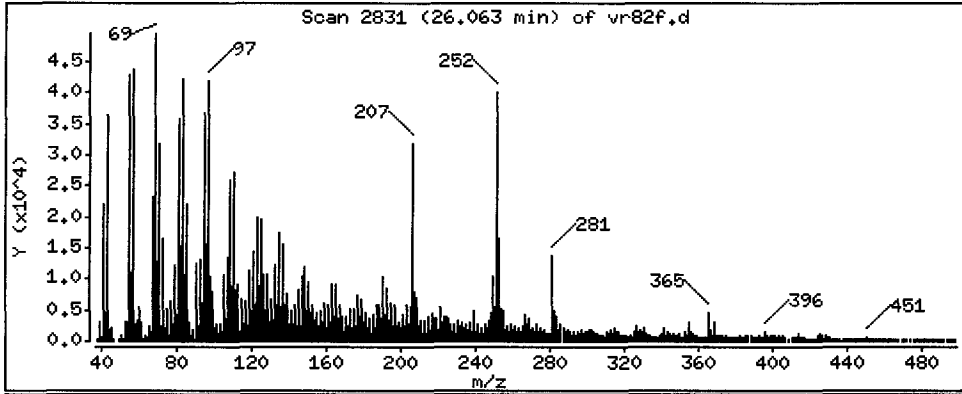
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 62.27 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

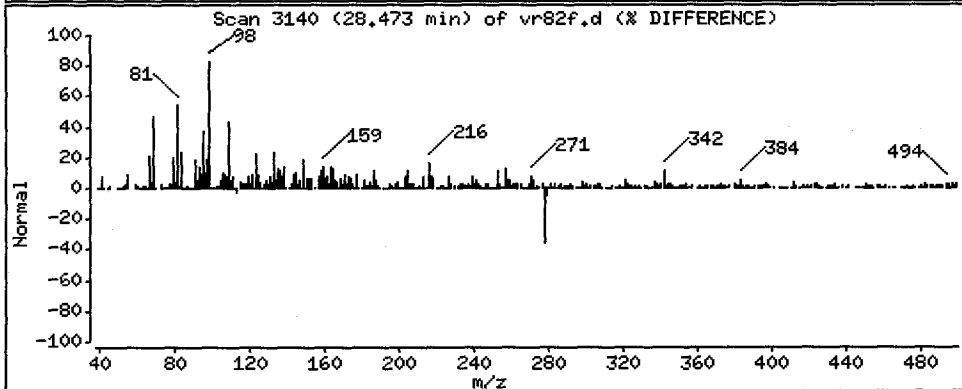
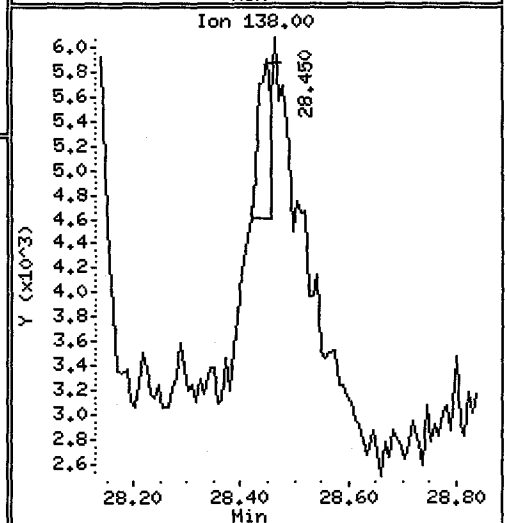
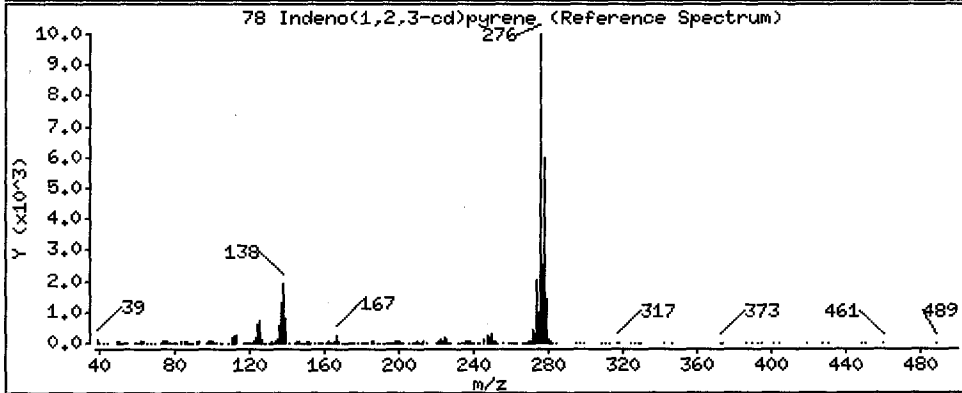
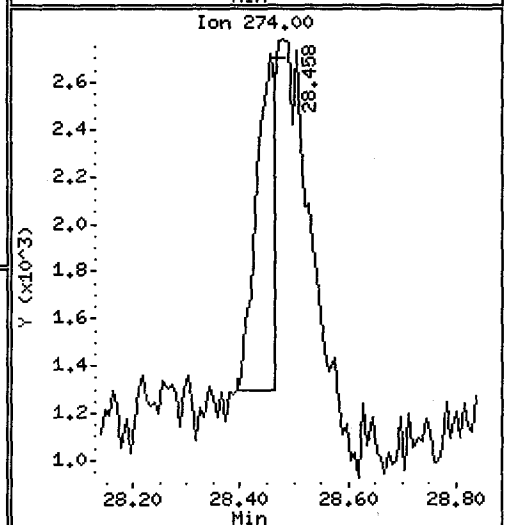
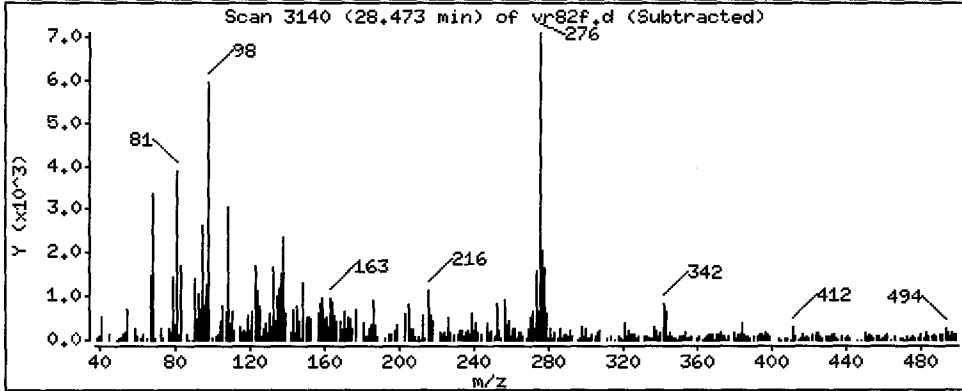
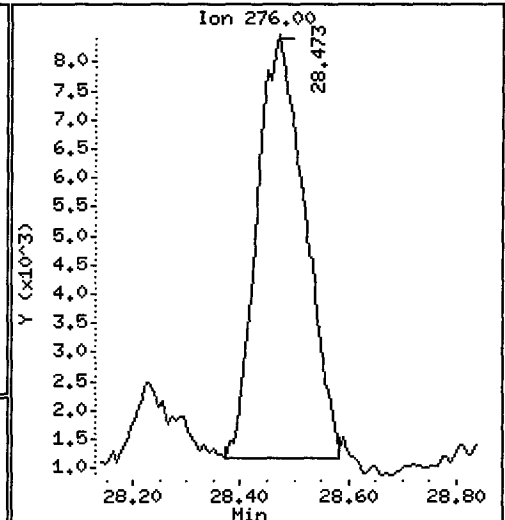
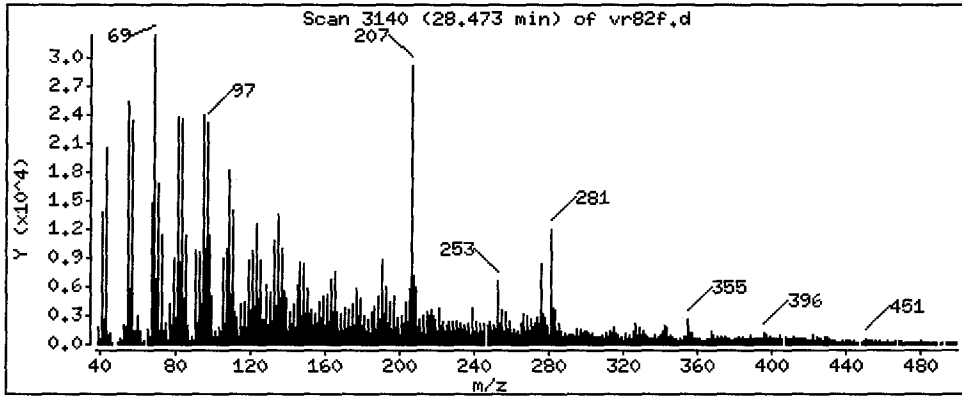
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 33.56 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

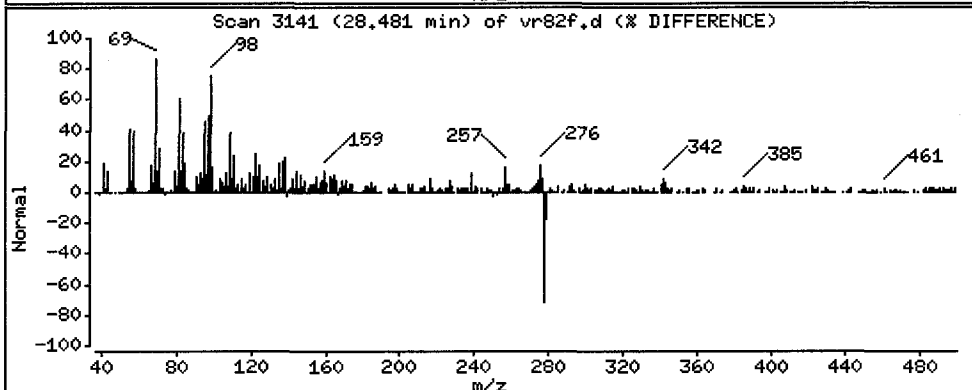
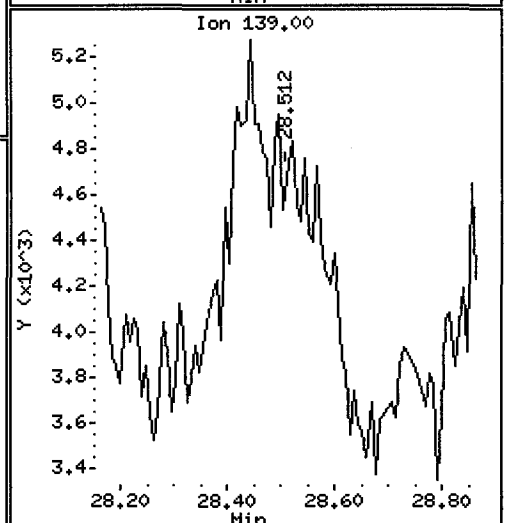
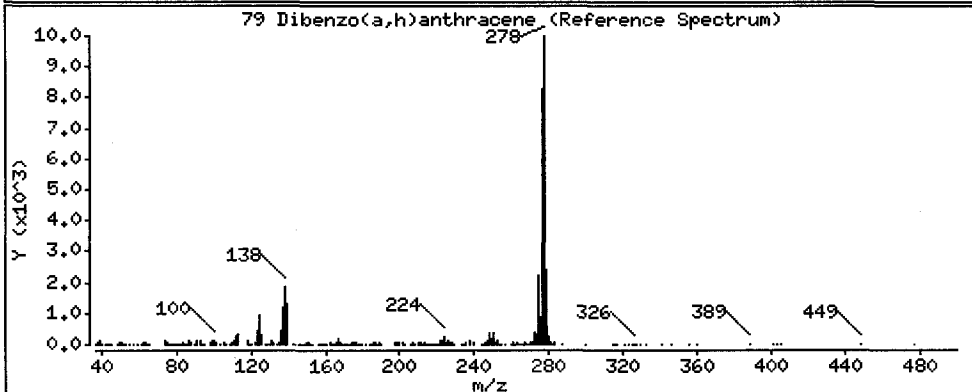
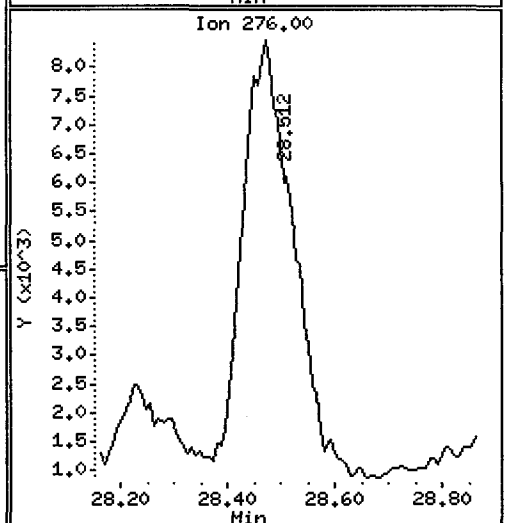
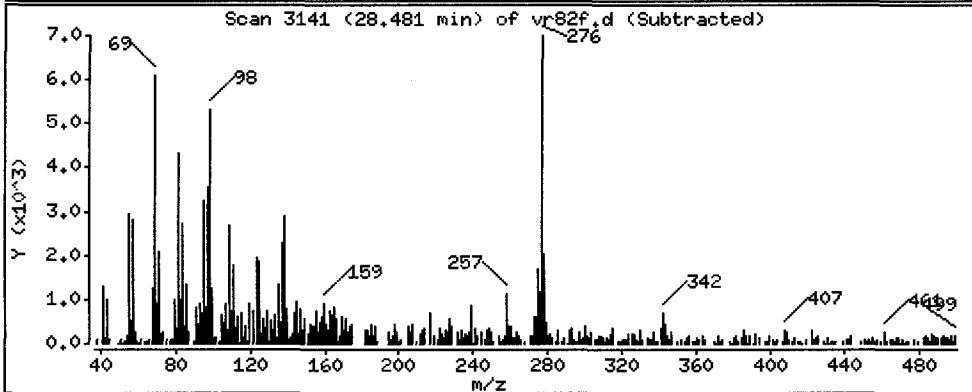
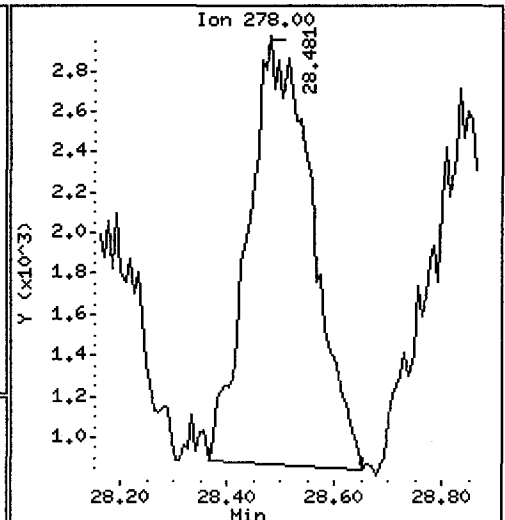
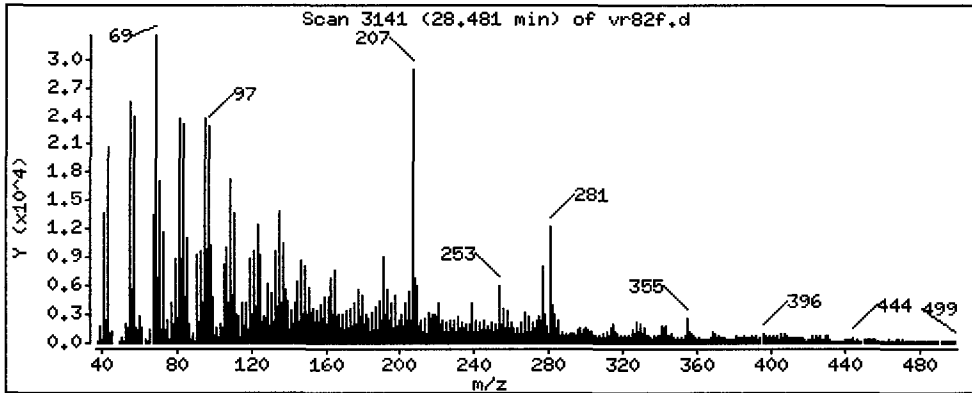
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 16.50 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

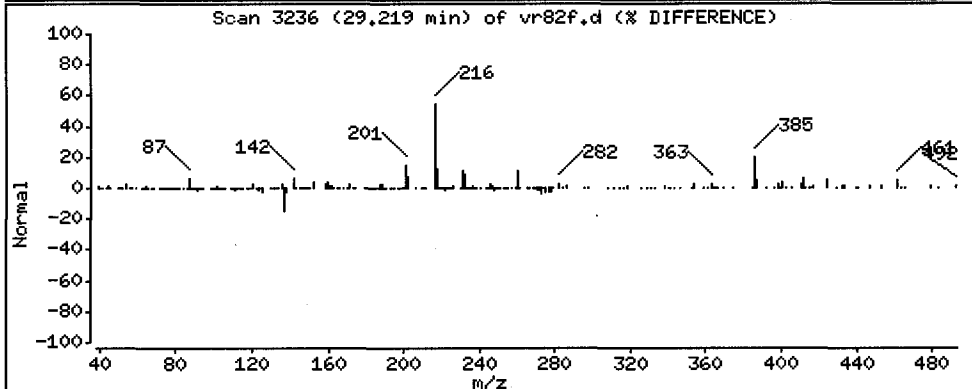
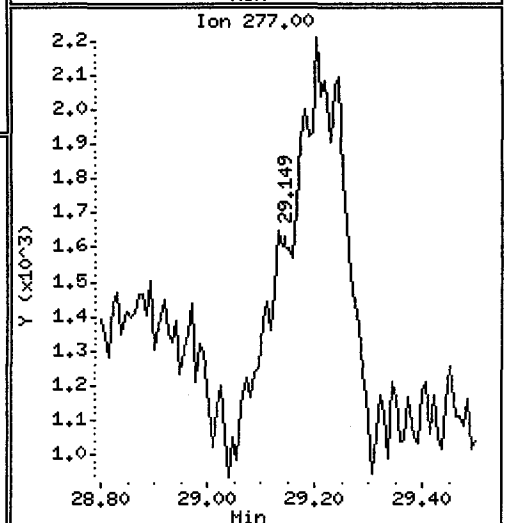
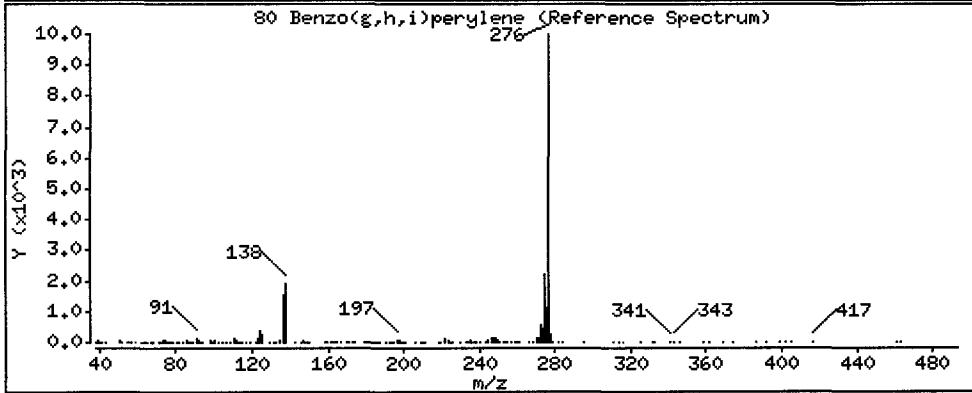
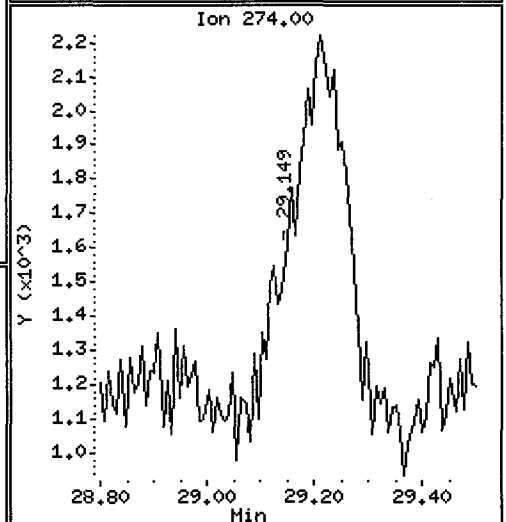
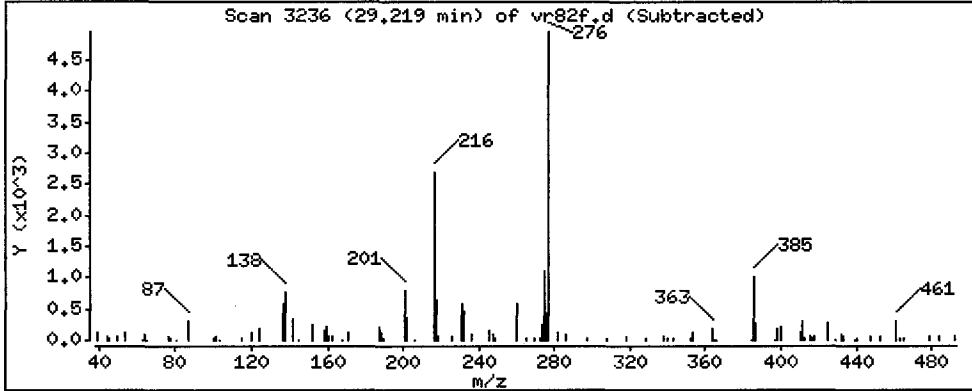
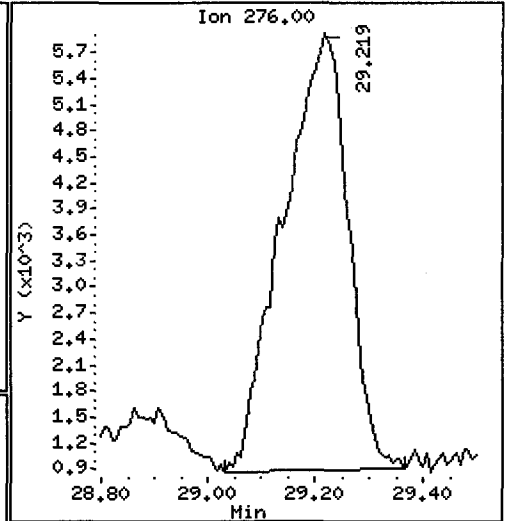
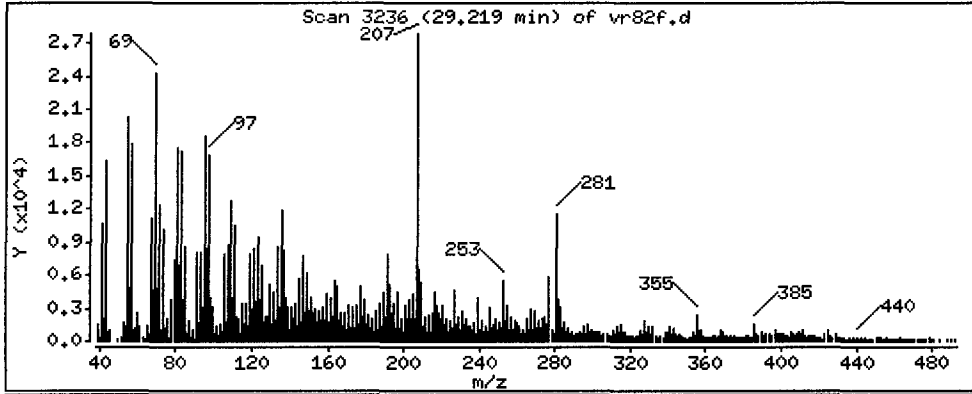
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 36.62 ug/kg



Date : 05-DEC-2012 18:16

Client ID: SG-07-S-C-121108

Instrument: nt10.i

Sample Info: VR82F

Volume Injected (uL): 1.0

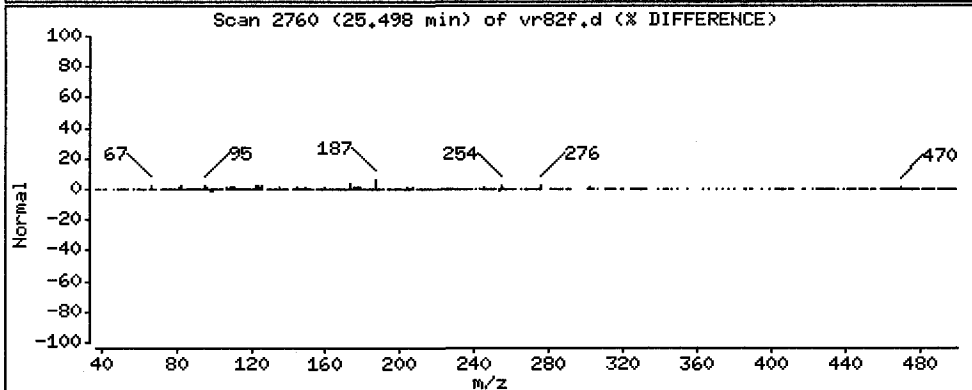
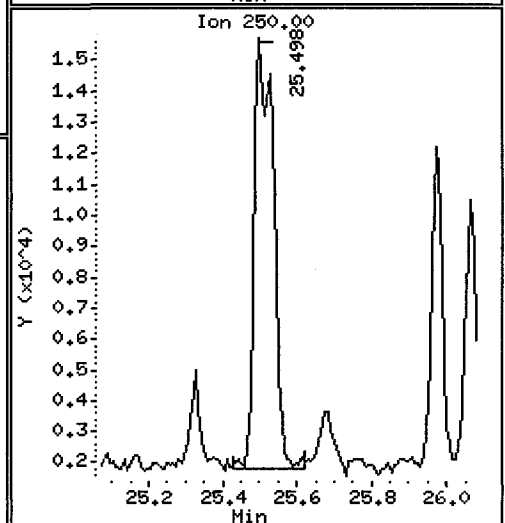
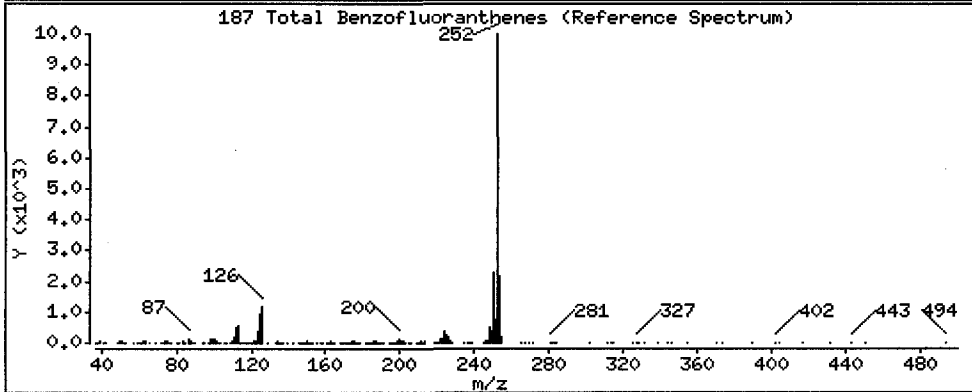
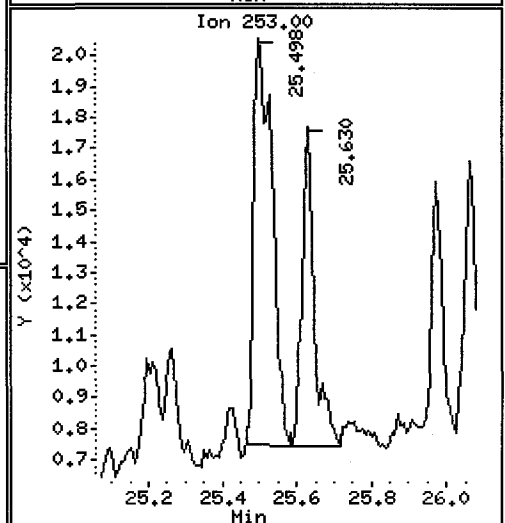
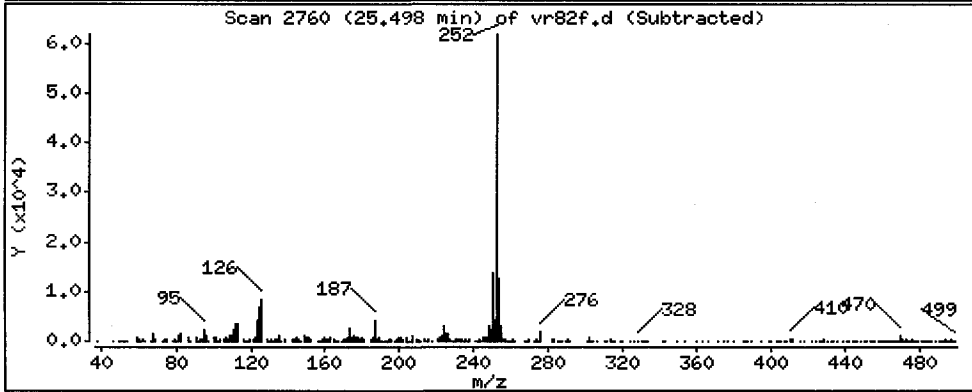
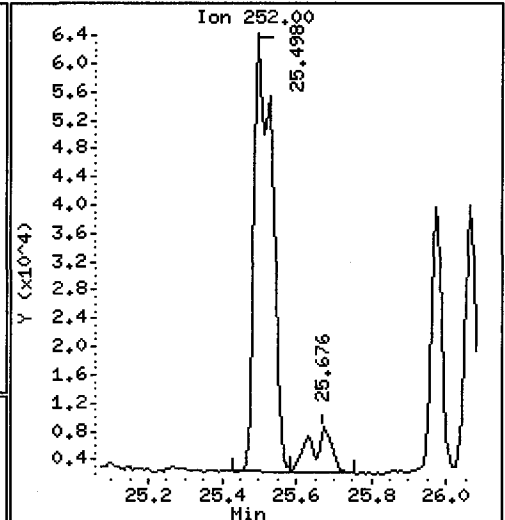
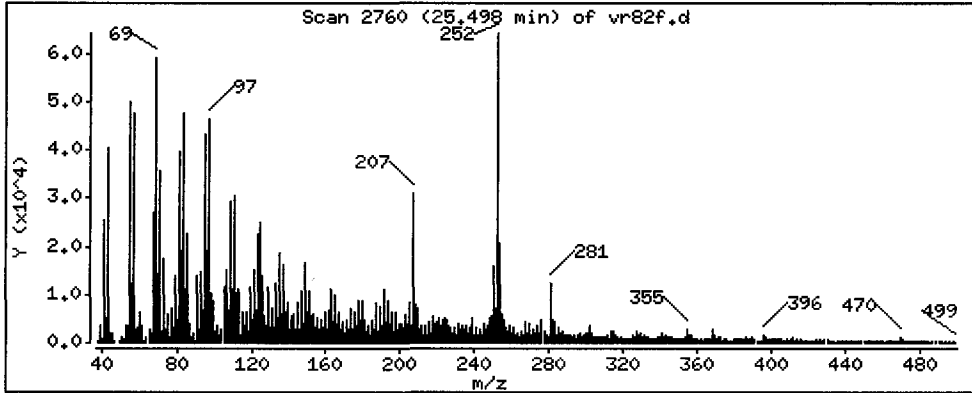
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

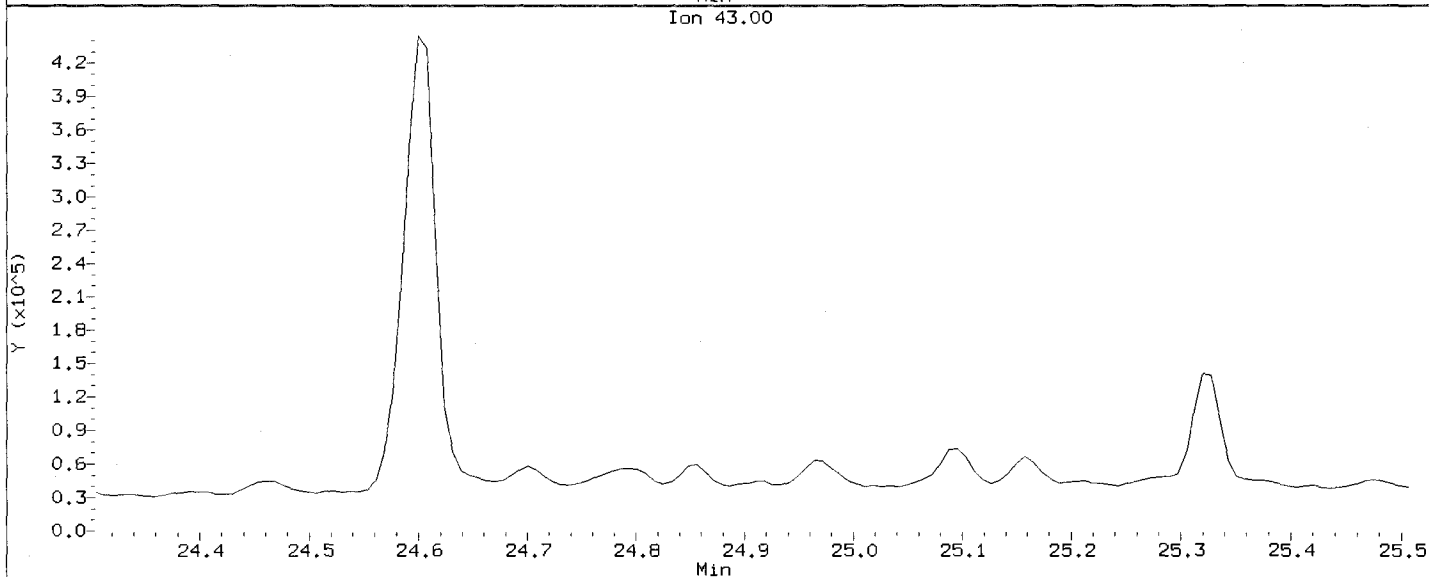
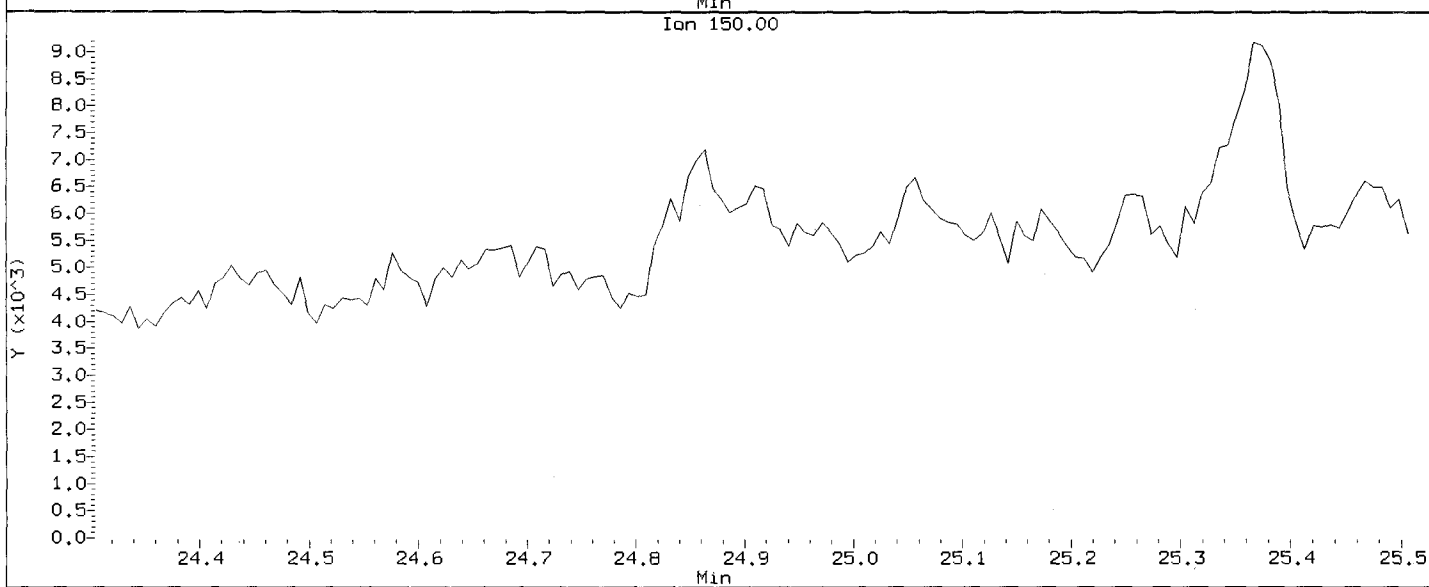
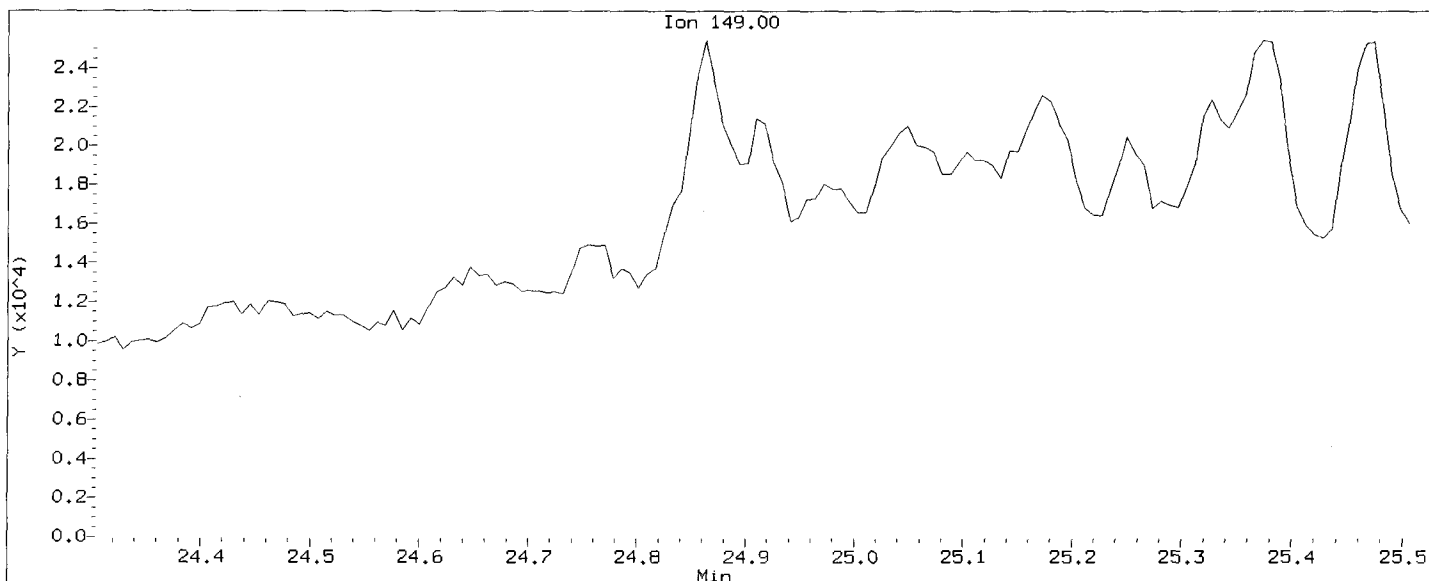
Concentration: 168.0 ug/kg



Data File: /chem1/nt10.i/20121205.b/vr82f.d
Injection Date: 05-DEC-2012 18:16
Instrument: nt10.i
Client Sample ID: SG-07-S-C-121108

VD
12.6.12

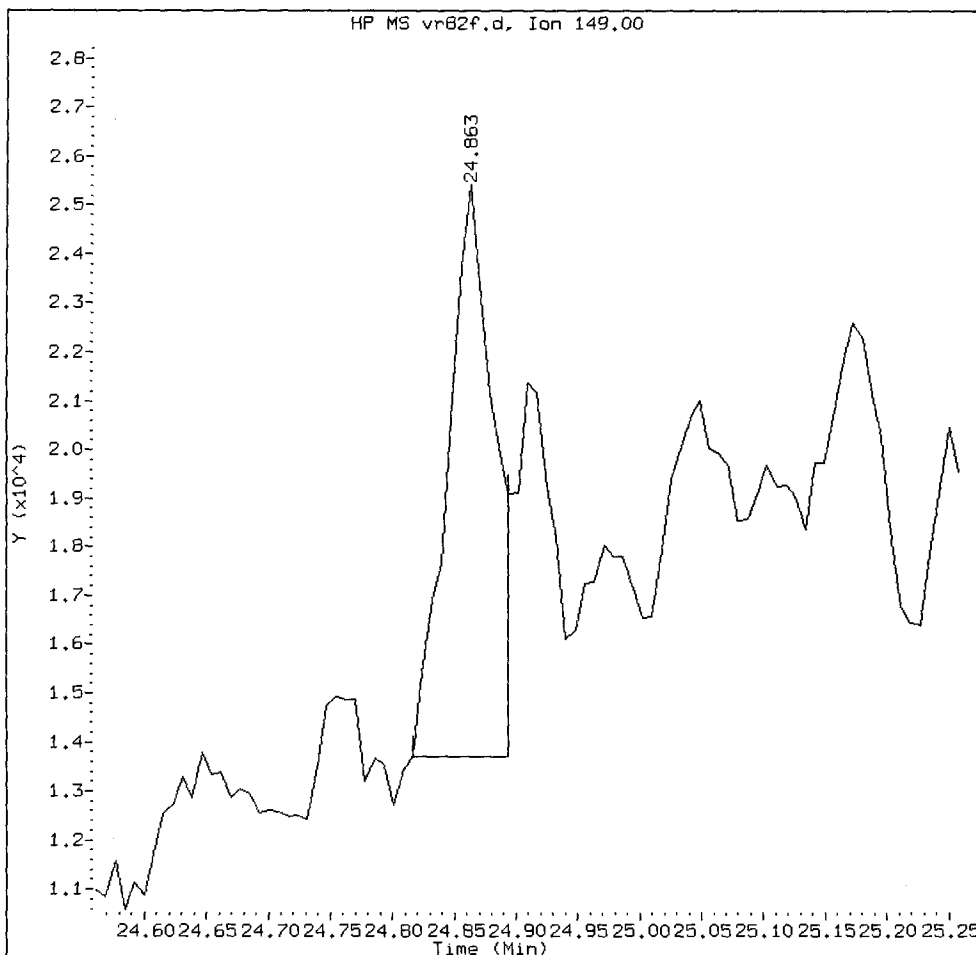
Compound: Di-n-octylphthalate
CAS Number: 117-84-0



VR82: 00598

VR82F, /chem1/nt10.i/20121205.b/vr82f.d

Di-n-octylphthalate Amount: 0.23 Area: 30883



MANUAL INTEGRATION for Di-n-octylphthalate

- 1. Baseline correction
- 2. Poor chromatography
- ③ Peak not found
- 4. Totals calculation
- 5. Other _____

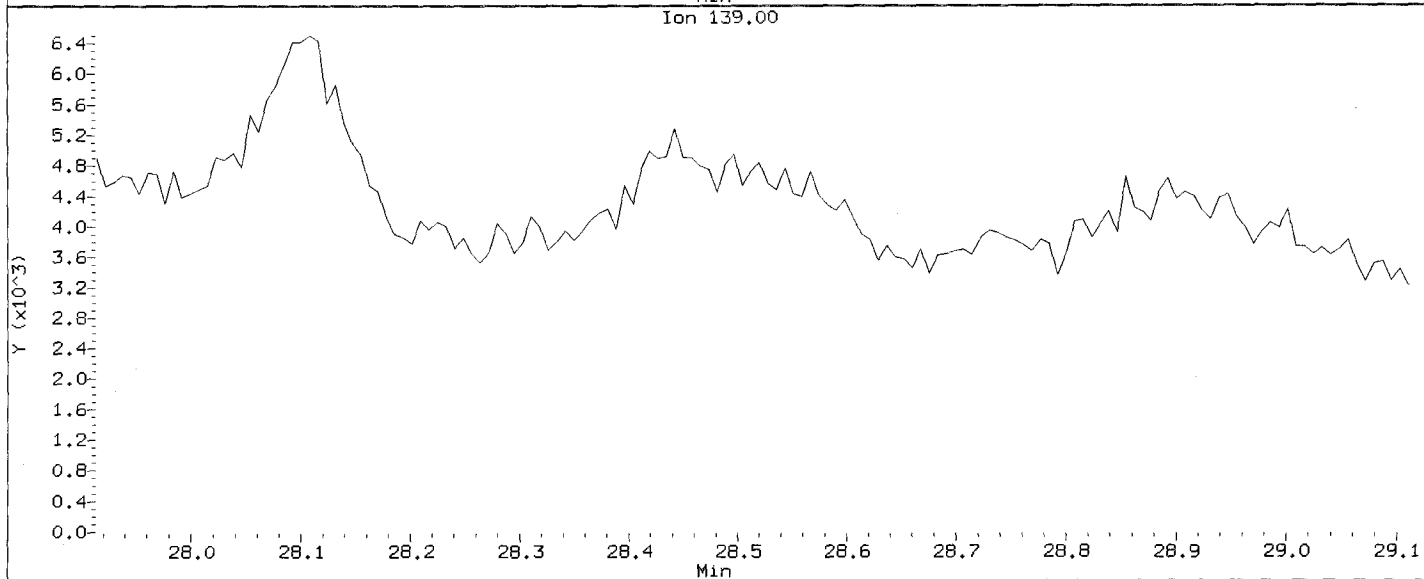
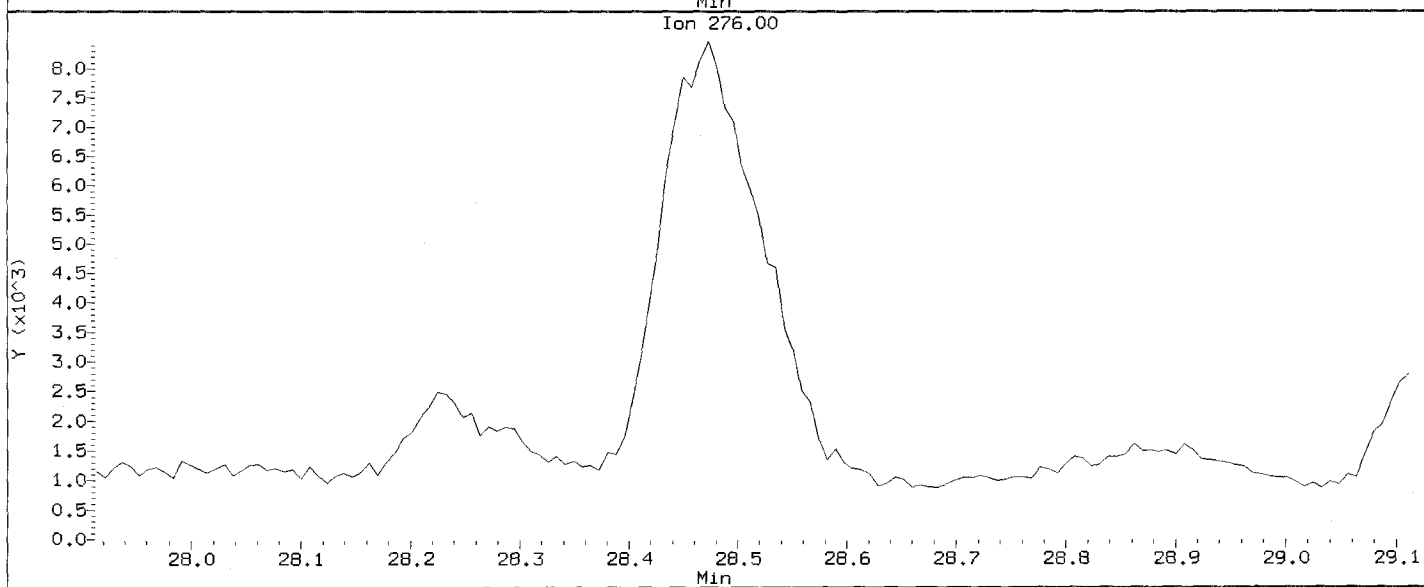
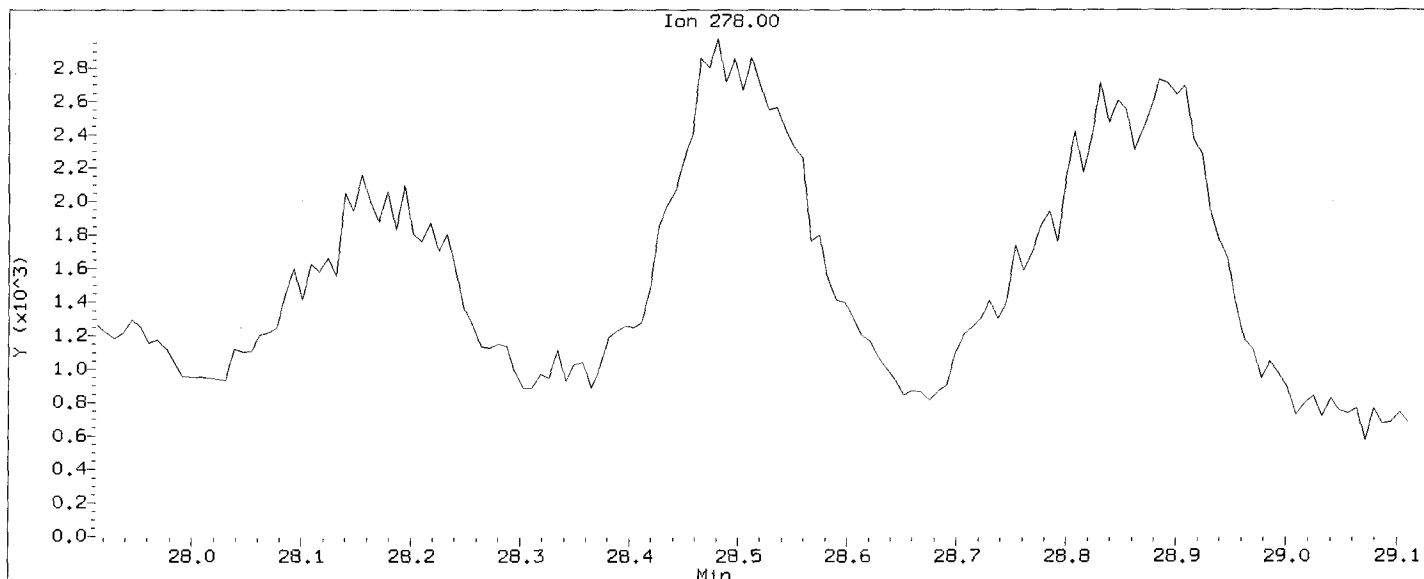
Analyst: VD

Date: 12.6.12

VRB
12.6.12

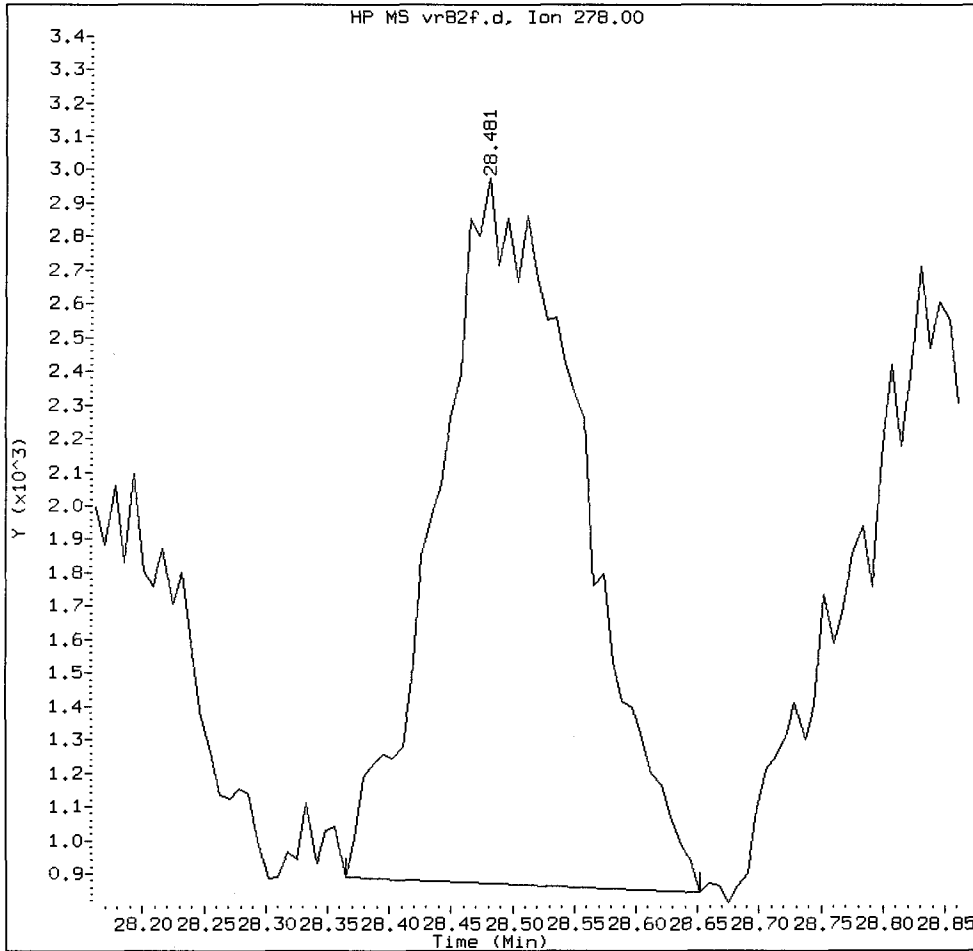
Data File: /chem1/nt10.i/20121205.b/vr82f.d
Injection Date: 05-DEC-2012 18:16
Instrument: nt10.i
Client Sample ID: SG-07-S-C-121108

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



VR82F, /chem1/nt10.i/20121205.b/vr82f.d

Dibenzo(a,h)anthracene Amount: 0.17 Area: 17554



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

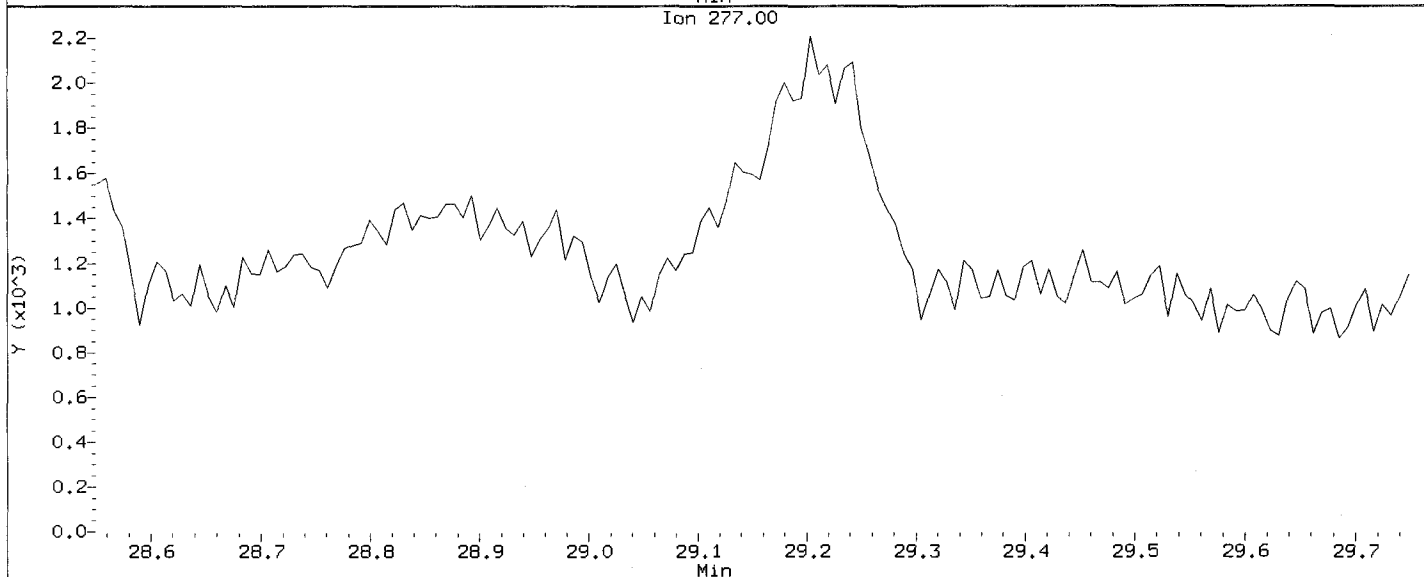
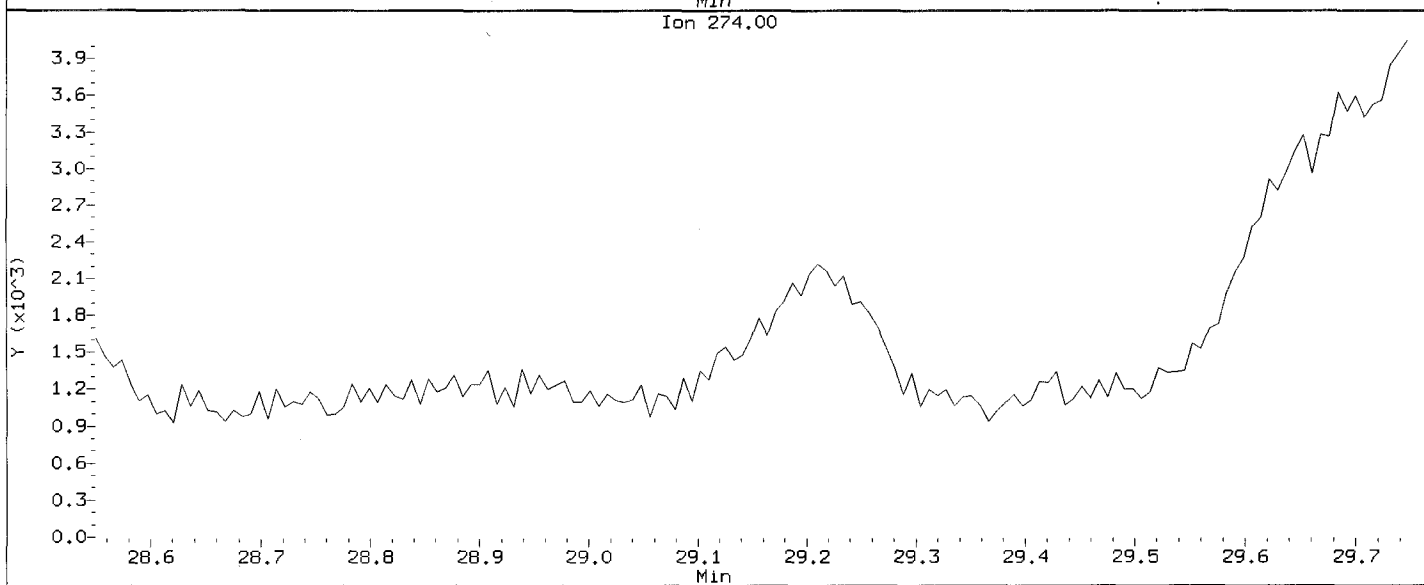
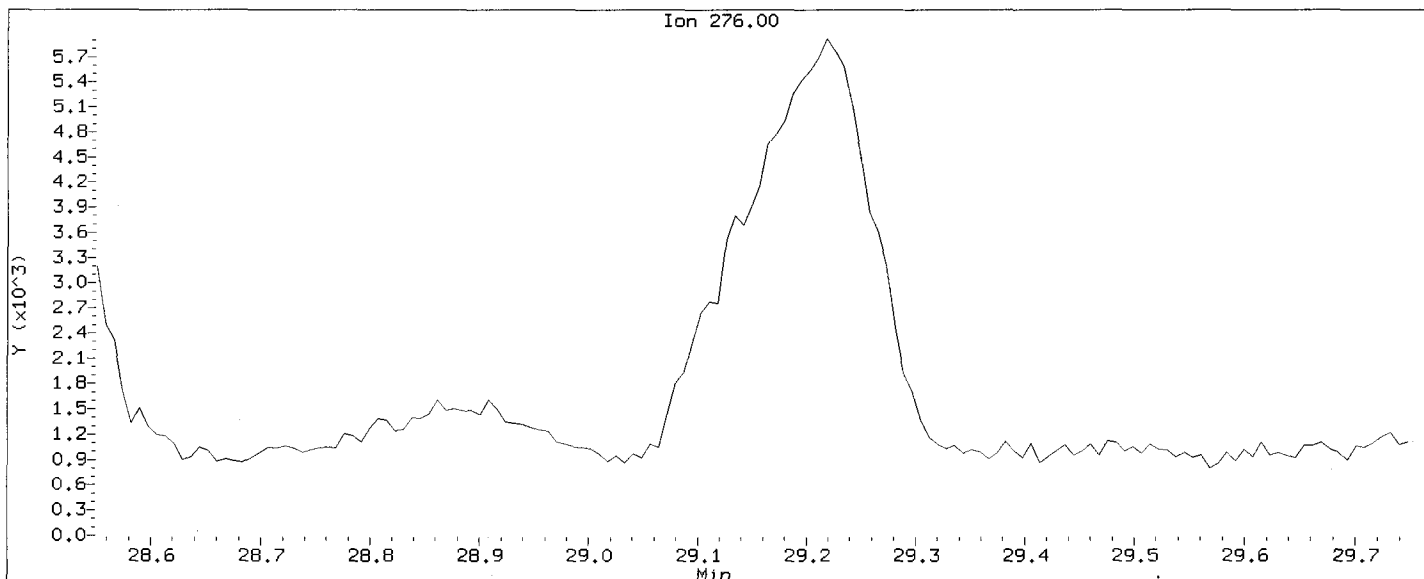
Analyst: VD

Date: 12-6-12

Data File: /chem1/nt10.1/20121205.b/vr82f.d
Injection Date: 05-DEC-2012 18:16
Instrument: nt10.1
Client Sample ID: SG-07-S-C-121108

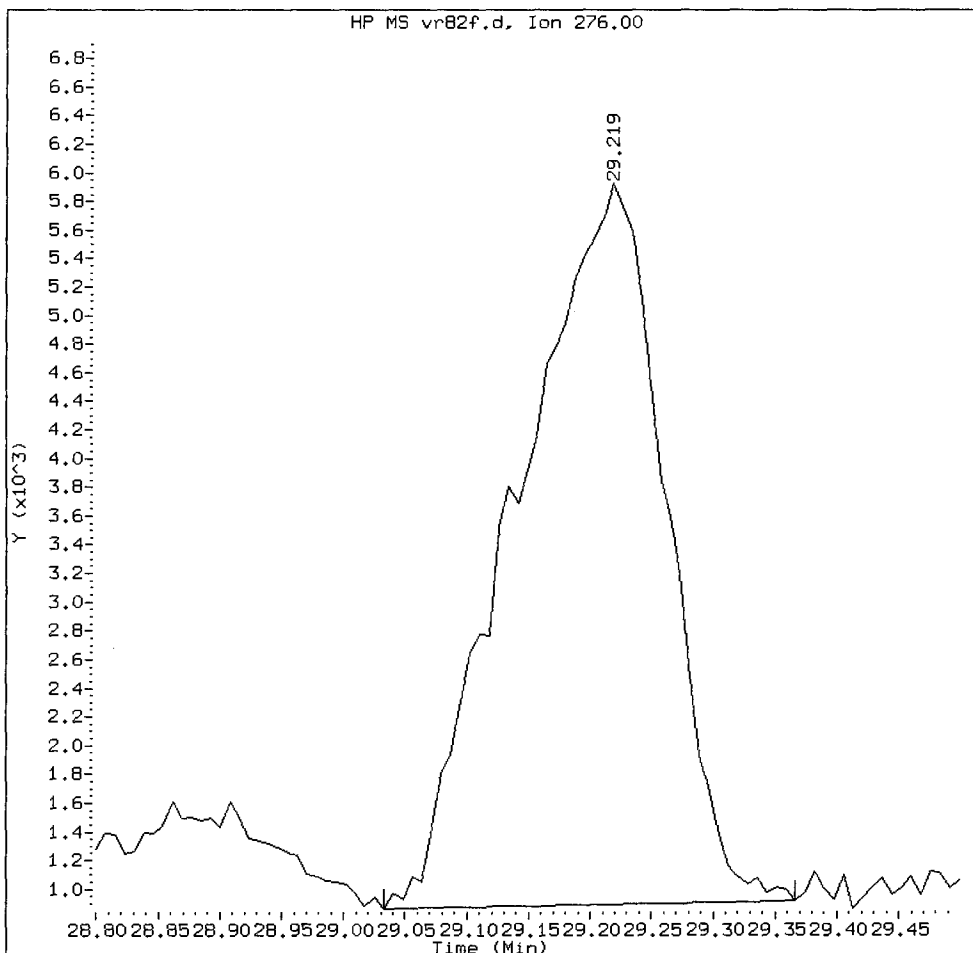
VD
12-6-12

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



VR82F, /chem1/nt10.i/20121205.b/vr82f.d

Benzo(g,h,i)perylene Amount: 0.37 Area: 42007



MANUAL INTEGRATION for Benzo(g,h,i)perylene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: VJ

Date: 12.6.12

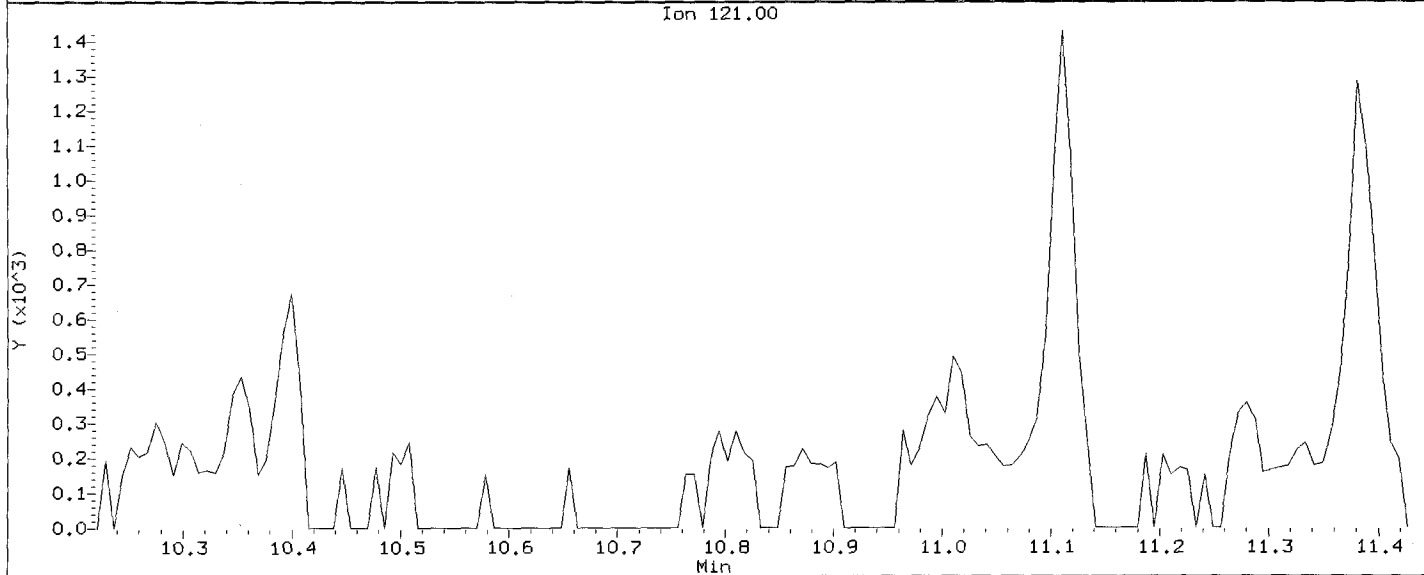
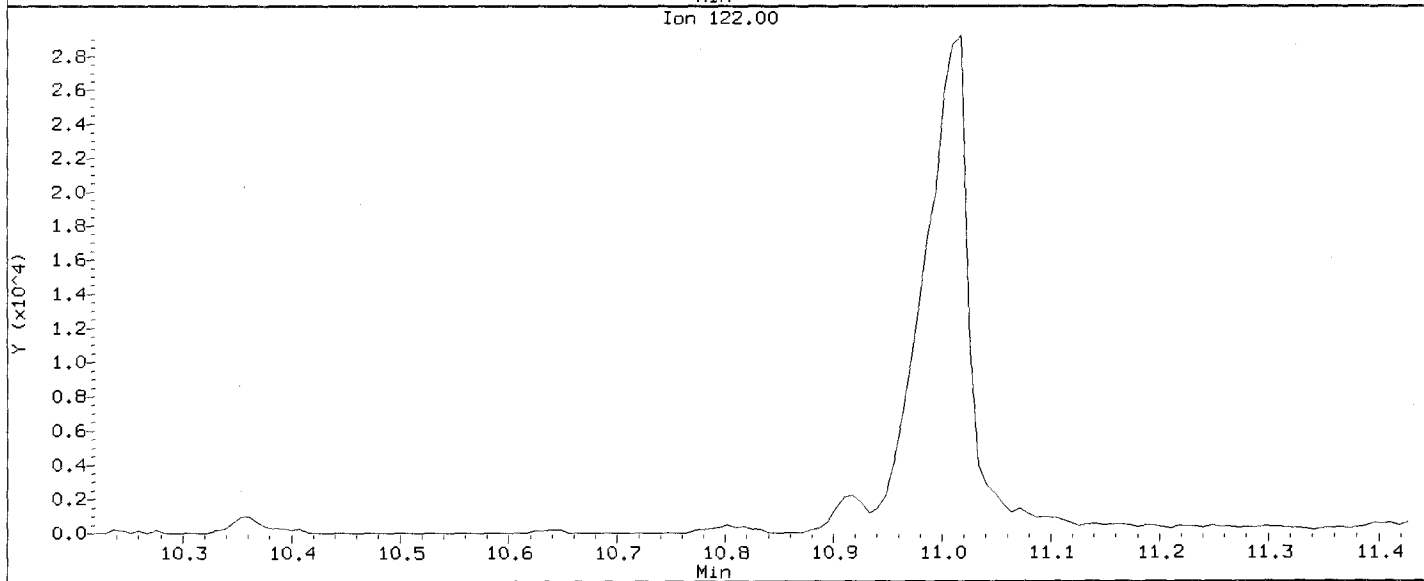
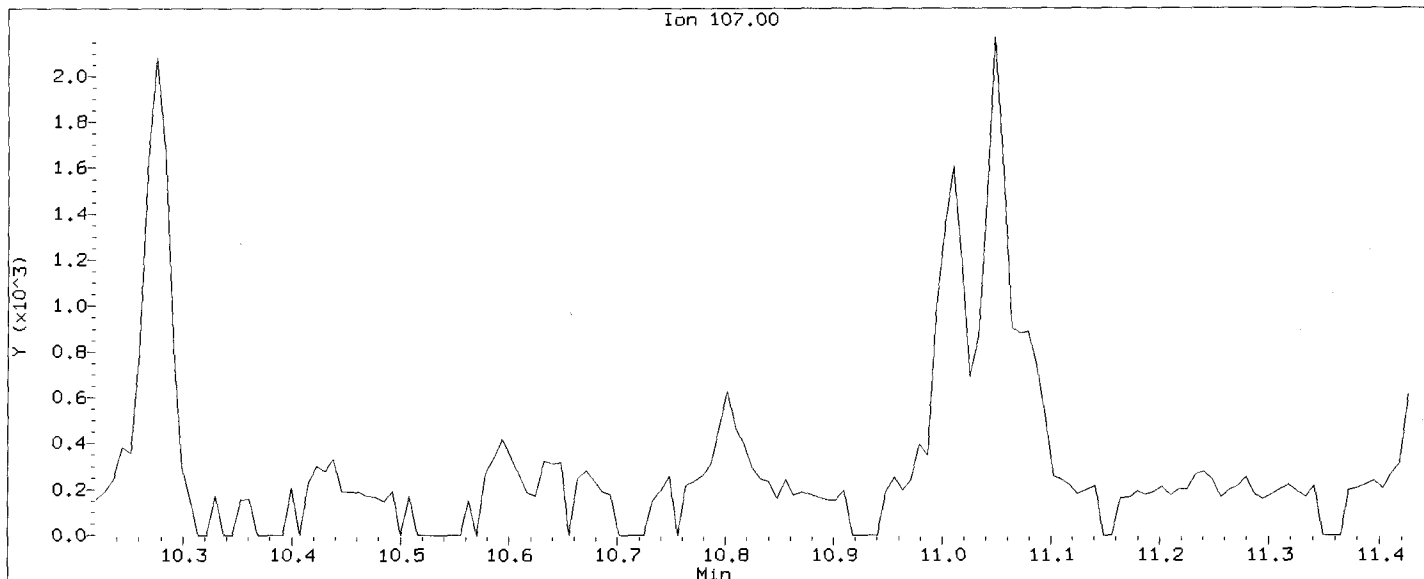
CO-ELUTION SUMMARY FOR FILE - vr82f.d

Lab ID: VR82F, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.1/20121205.b/vr82f.d
Injection Date: 05-DEC-2012 18:16
Instrument: nt10.1
Client Sample ID: SG-07-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82g.d
 Lab Smp Id: VR82G Client Smp ID: SG-07-S-C-dup-12110
 Inj Date : 05-DEC-2012 18:53
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82G
 Misc Info : 12-22485
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	28.10000	Weight of sample extracted (g)
M	63.40000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.505	6.474	(0.740)	125050	4.48367	436.0
\$ 2 Phenol-d5	99	8.205	8.205	(0.934)	161270	4.67298	454.4
3 Phenol	94	8.228	8.228	(0.937)	15780	0.43405	42.20
\$ 5 2-Chlorophenol-d4	132	8.421	8.429	(0.959)	141102	4.72544	459.5
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	87186	4.00000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152	9.165	9.189	(1.043)	67034	3.07874	299.4
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	9.119	9.134	(1.038)	17717	1.03058	100.2
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					
15 4-Methylphenol	108	9.701	9.709	(1.104)	6008	0.32416	31.52
\$ 18 Nitrobenzene-d5	82	9.965	9.988	(0.871)	89580	2.76365	268.7
22 2,4-Dimethylphenol	107	Compound Not Detected.					

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/mL)	(ug/kg)
24 Benzoic acid			105	11.025	11.118	(0.964)	98641	4.89038	475.5
26 1,2,4-Trichlorobenzene			180	Compound Not Detected.					
* 27 Naphthalene-d8			136	11.441	11.472	(1.000)	345919	4.00000	
28 Naphthalene			128	11.488	11.519	(1.004)	21812	0.25918	25.20
30 Hexachlorobutadiene			225	Compound Not Detected.					
32 2-Methylnaphthalene			142	Compound Not Detected.					
\$ 36 2-Fluorobiphenyl			172	13.847	13.894	(0.904)	264173	3.32283	323.1
39 Dimethylphthalate			163	Compound Not Detected.					
40 Acenaphthylene			152	Compound Not Detected.					
* 42 Acenaphthene-d10			164	15.325	15.372	(1.000)	224624	4.00000	
44 Acenaphthene			153	Compound Not Detected.					
46 Dibenzofuran			168	Compound Not Detected.					
50 Diethylphthalate			149	Compound Not Detected.					
49 Fluorene			166	16.524	16.570	(1.078)	7495	0.10031	9.754
54 N-Nitrosodiphenylamine			169	Compound Not Detected.					
\$ 55 2,4,6-Tribromophenol			330	17.110	17.156	(1.116)	82137	6.20765	603.6
57 Hexachlorobenzene			284	Compound Not Detected.					
58 Pentachlorophenol			266	Compound Not Detected.					
* 59 Phenanthrene-d10			188	18.609	18.656	(1.000)	392203	4.00000	
60 Phenanthrene			178	18.656	18.702	(1.002)	68153	0.70183	68.24
61 Anthracene			178	Compound Not Detected.					
63 Di-n-butylphthalate			149	20.010	20.056	(1.075)	14215	0.11511	11.19
64 Fluoranthene			202	21.101	21.139	(1.134)	175454	1.43344	139.4
65 Pyrene			202	21.518	21.565	(0.907)	161672	1.31144	127.5
\$ 66 Terphenyl-d14			244	21.851	21.898	(0.921)	320265	3.88649	377.9
67 Butylbenzylphthalate			149	Compound Not Detected.					
68 Benzo(a)anthracene			228	23.702	23.748	(0.999)	63047	0.52714	51.26
* 69 Chrysene-d12			240	23.733	23.771	(1.000)	420805	4.00000	
71 Chrysene			228	23.771	23.818	(1.002)	89390	0.84130	81.80
72 bis(2-Ethylhexyl)phthalate			149	23.864	23.918	(0.960)	231018	3.09047	300.5
* 134 Di-n-octylphthalate-d4			153	24.855	24.902	(1.000)	541765	4.00000	
73 Di-n-octylphthalate			149	24.863	24.909	(1.000)	20207	0.16454	16.00(M)
76 Benzo(a)pyrene			252	26.055	26.102	(0.996)	62906	0.56894	55.32
* 77 Perylene-d12			264	26.164	26.210	(1.000)	387423	4.00000	
78 Indeno(1,2,3-cd)pyrene			276	28.426	28.489	(1.086)	48599	0.38784	37.71
79 Dibenzo(a,h)anthracene			278	28.442	28.512	(1.087)	12283	0.12352	12.01
80 Benzo(g,h,i)perylene			276	29.094	29.149	(1.112)	45155	0.42106	40.94
105 1-methylnaphthalene			142	Compound Not Detected.					
187 Total Benzofluoranthenes			252	25.498	25.575	(0.975)	157993	1.38578	134.7
98 Retene			219	22.137	22.215	(0.933)	74525		
120 2,3,4,6-Tetrachlorophenol			232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

5
12-6-12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82g.d
 Lab Smp Id: VR82G
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22485

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-07-S-C-dup-12
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	87186	6.88
27 Naphthalene-d8	299399	149700	598798	345919	15.54
42 Acenaphthene-d10	178564	89282	357128	224624	25.79
59 Phenanthrene-d10	305410	152705	610820	392203	28.42
69 Chrysene-d12	323853	161926	647706	420805	29.94
134 Di-n-octylphthala	427845	213922	855690	541765	26.63
77 Perylene-d12	305316	152658	610632	387423	26.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.27
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.61	-0.25
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.86	-0.19
77 Perylene-d12	26.21	25.71	26.71	26.16	-0.18

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.

Analytical Resources, Inc.

RECOVERY REPORT

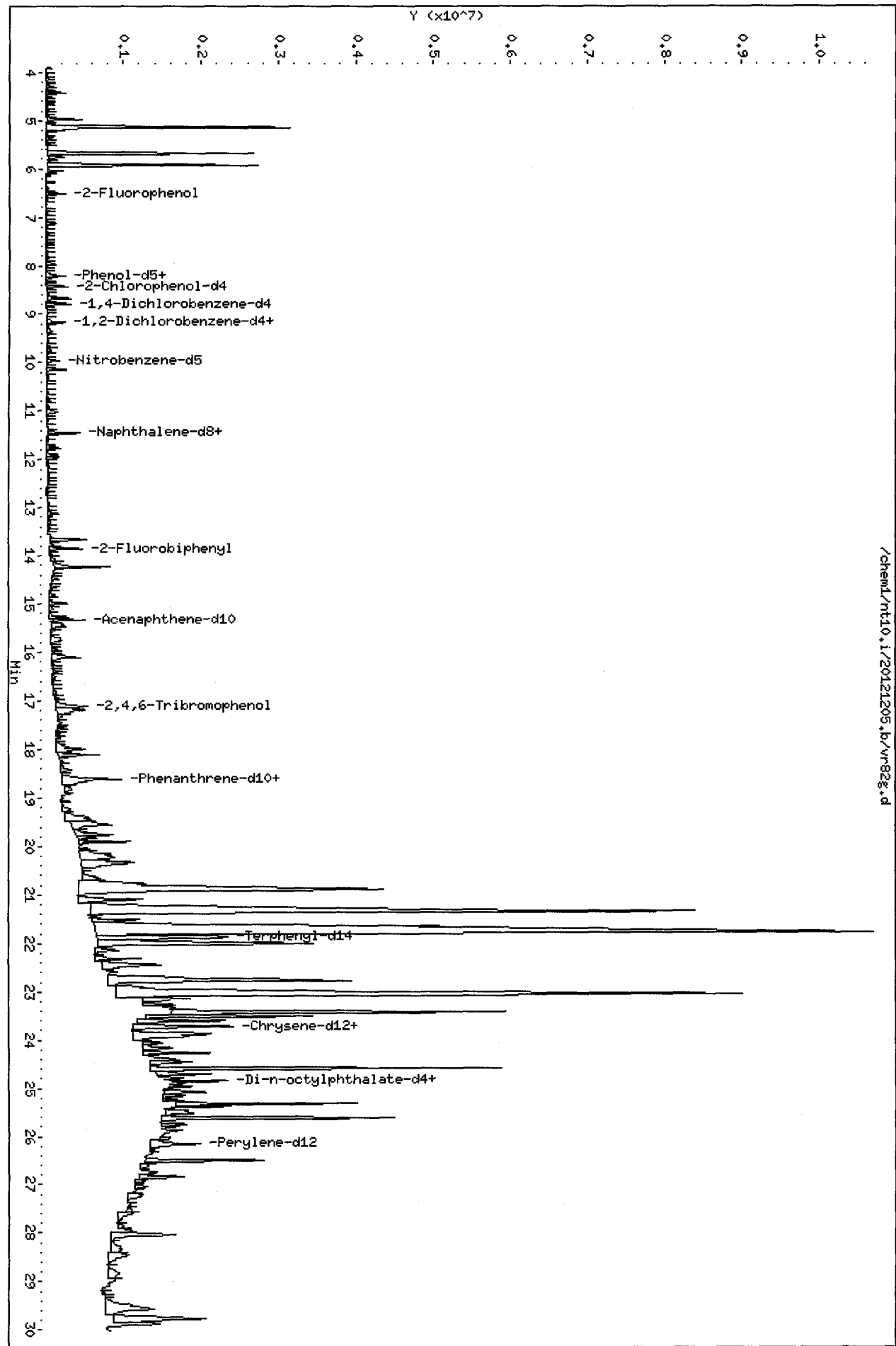
Client Name: Anchor QEA, LLC.	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82G	Client Smp ID: SG-07-S-C-dup-12110
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22485	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	729.2	436.0	59.78	30-160
\$ 2 Phenol-d5	729.2	454.4	62.31	30-160
\$ 5 2-Chlorophenol-d4	729.2	459.5	63.01	30-160
\$ 10 1,2-Dichlorobenzen	486.2	299.4	61.57	30-160
\$ 18 Nitrobenzene-d5	486.2	268.7	55.27	30-160
\$ 36 2-Fluorobiphenyl	486.2	323.1	66.46	30-160
\$ 55 2,4,6-Tribromophen	729.2	603.6	82.77	30-160
\$ 66 Terphenyl-d14	486.2	377.9	77.73	30-160

Data File: /chem1/nt10.i/20121205.b/vr82g.d
Date : 05-DEC-2012 18:53
Client ID: SG-07-S-C-dup-12110
Sample Info: VR82G
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: VTS/YZ
Column diameter: 0.25

/chem1/nt10.i/20121205.b/vr82g.d



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

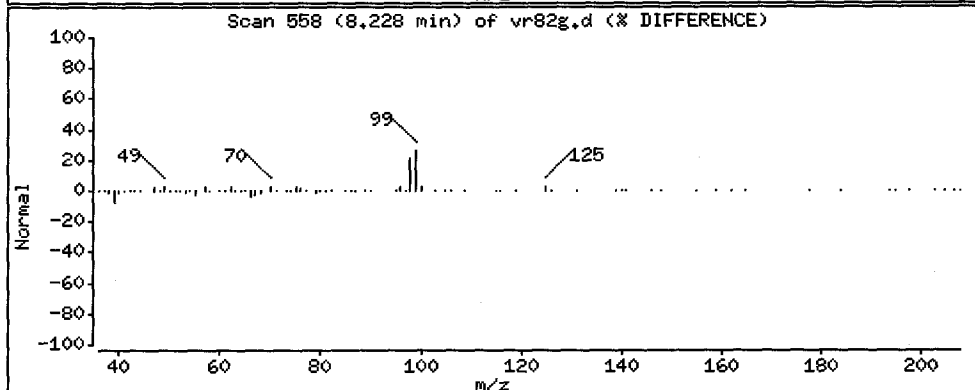
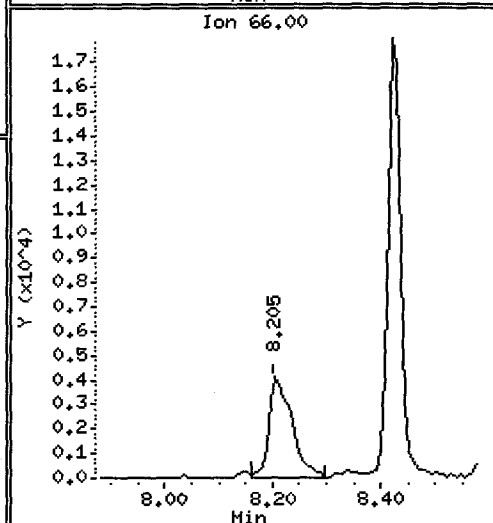
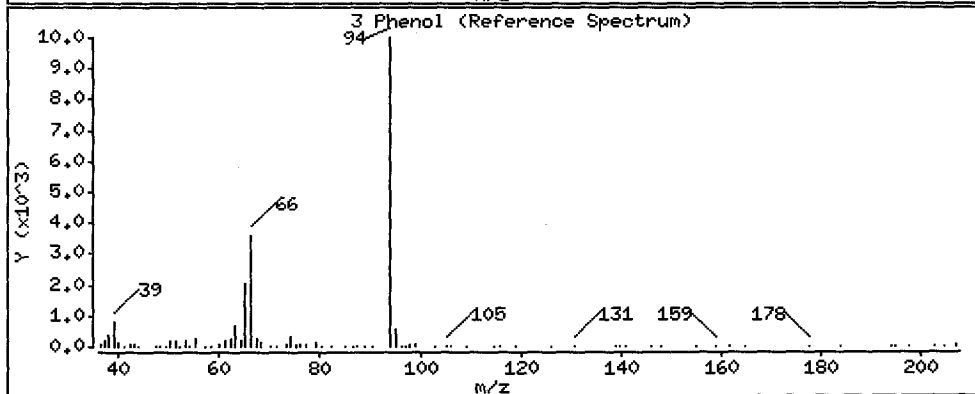
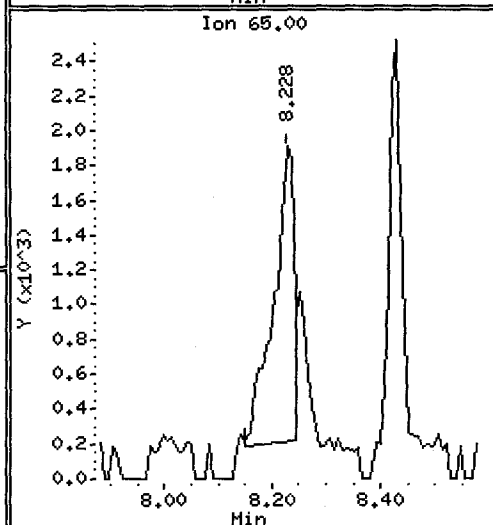
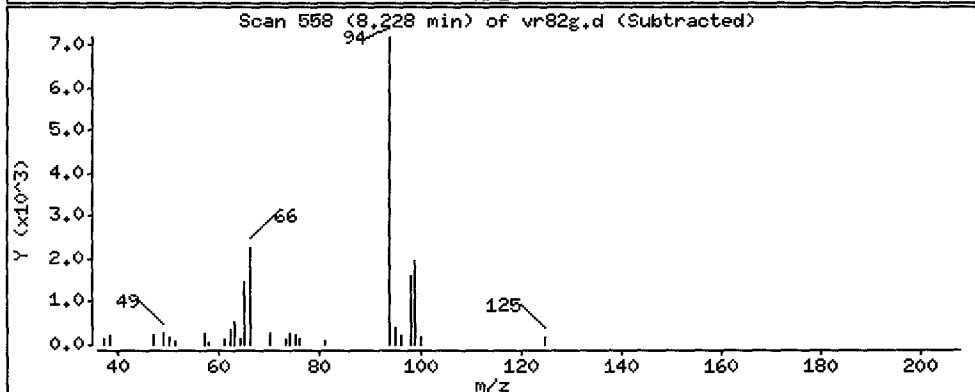
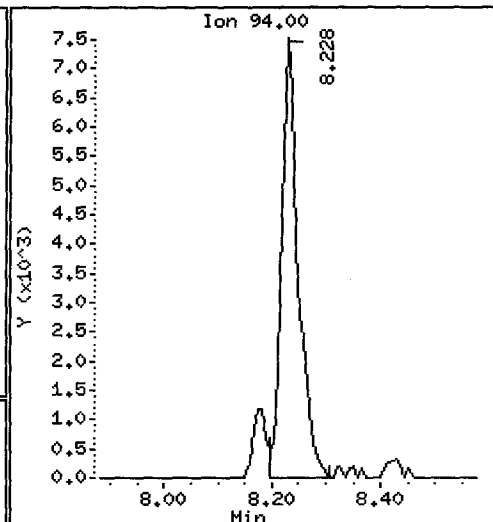
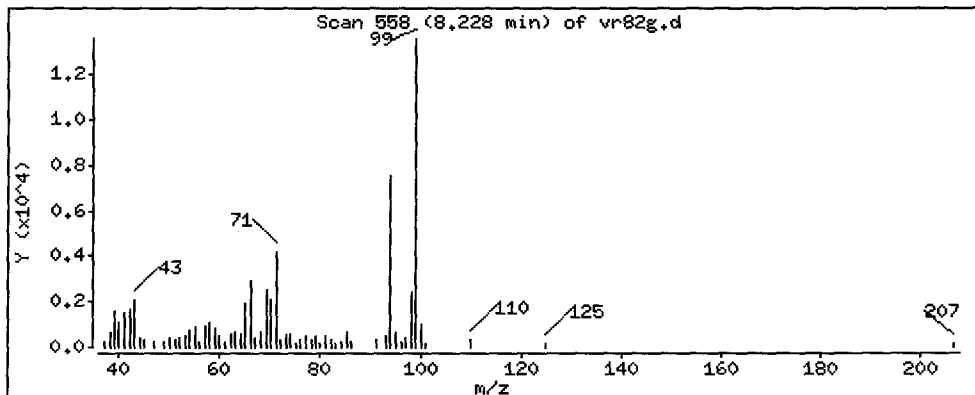
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 42.20 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

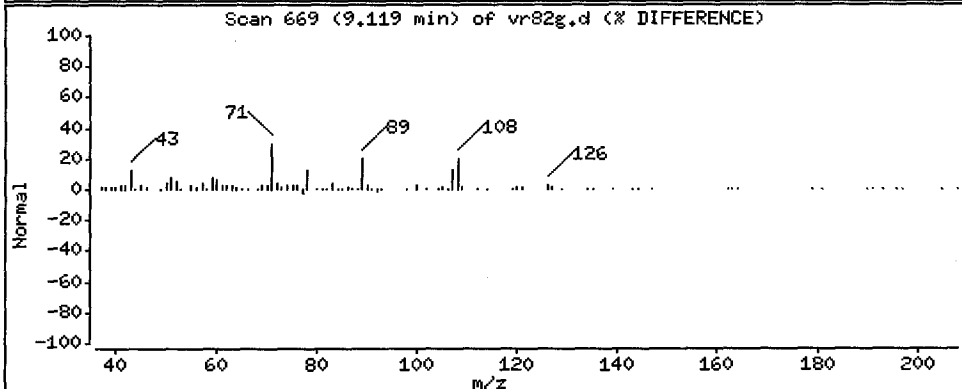
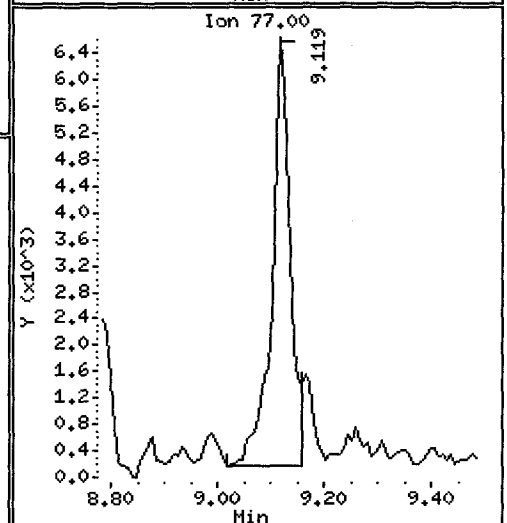
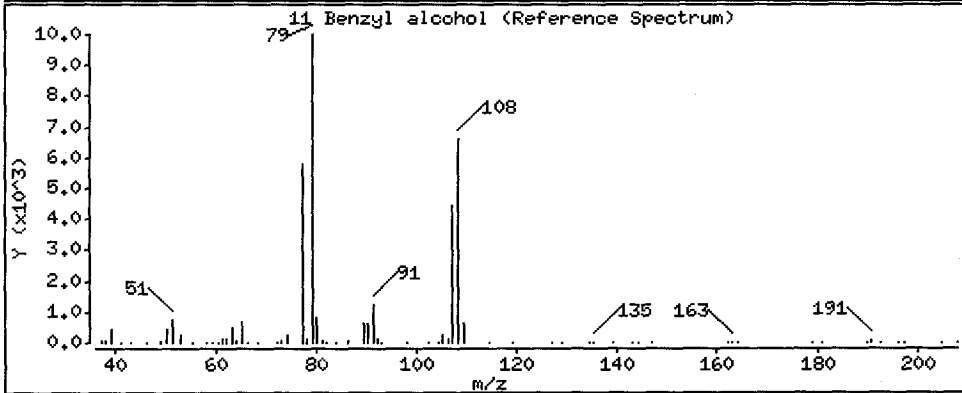
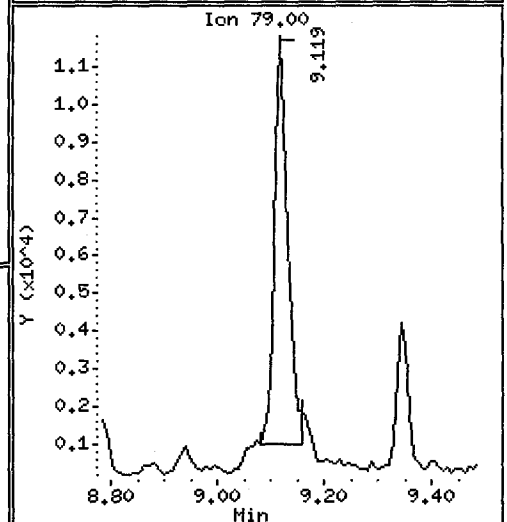
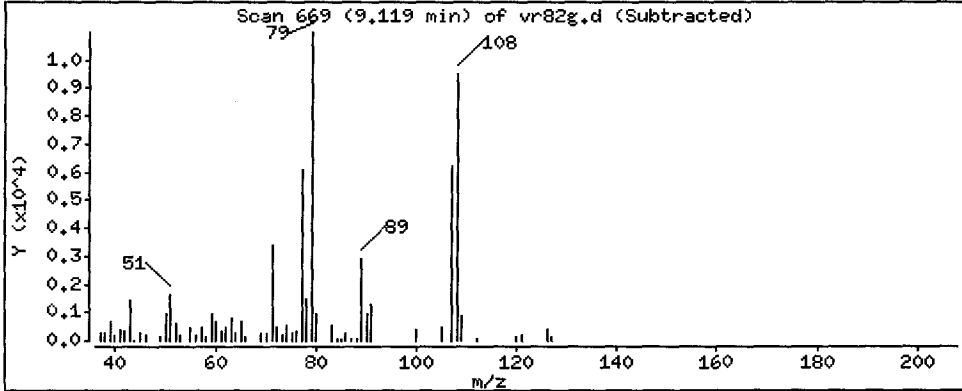
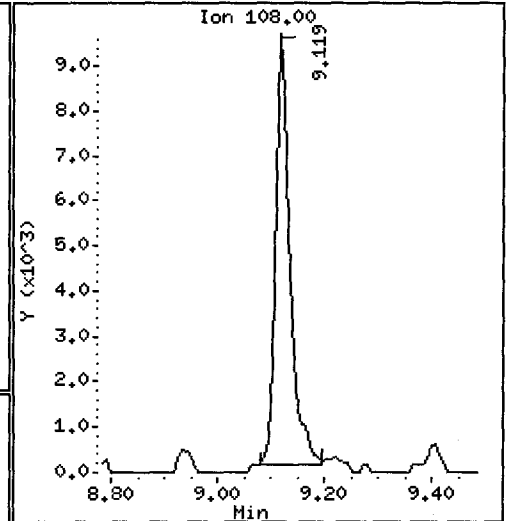
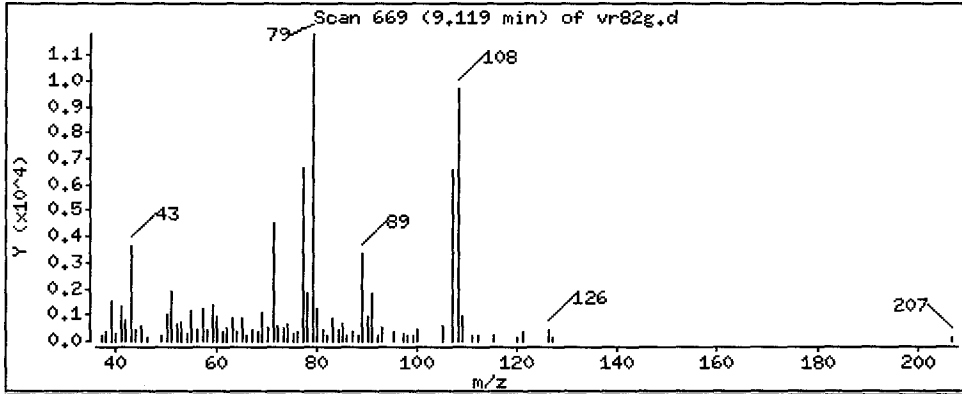
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 100.2 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

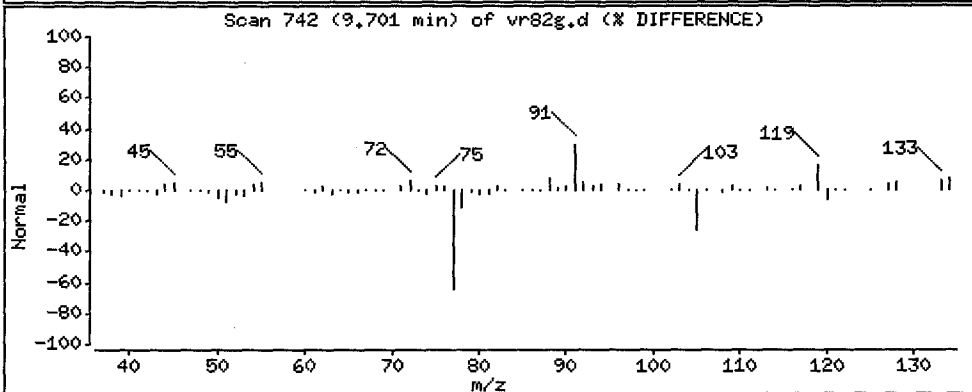
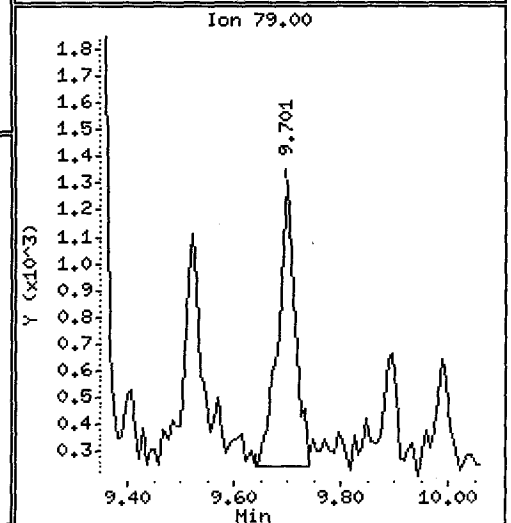
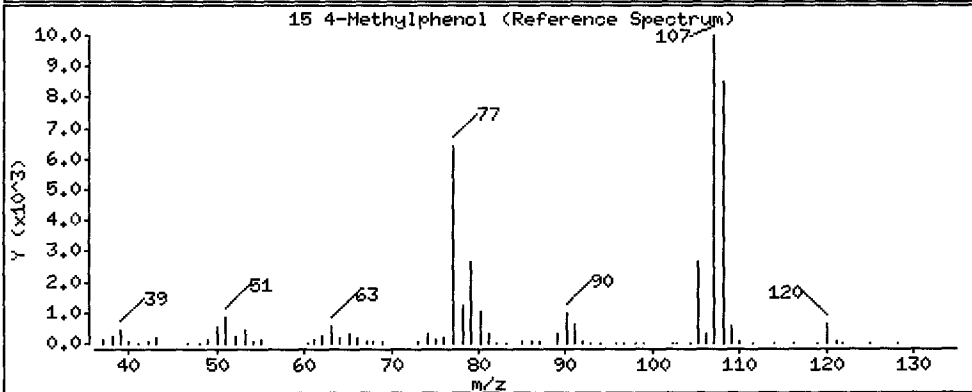
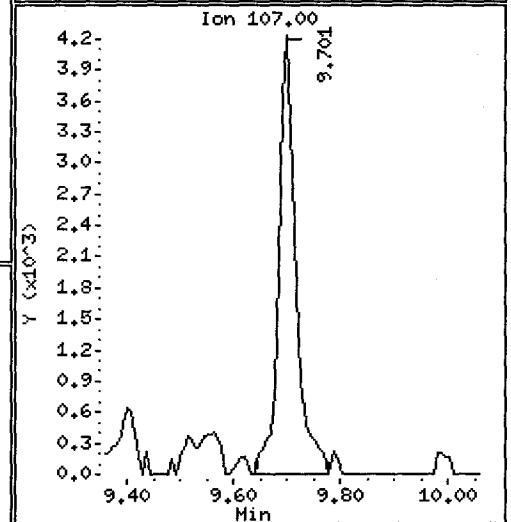
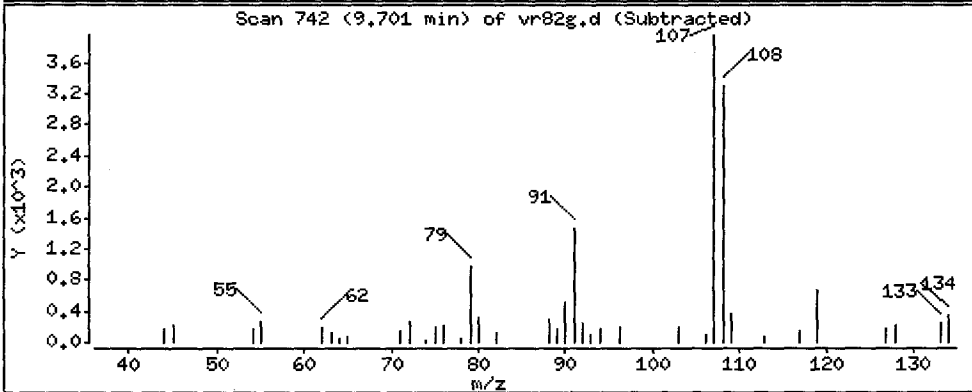
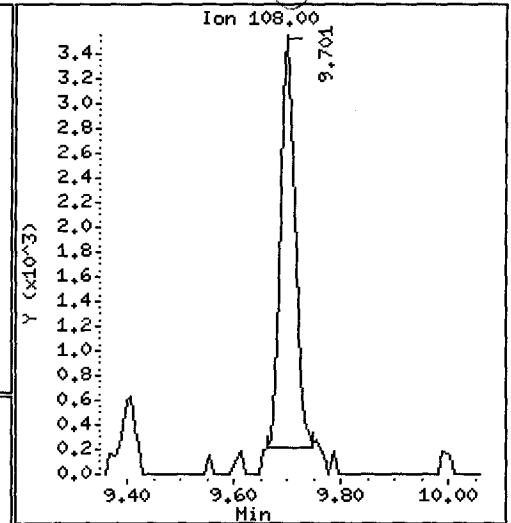
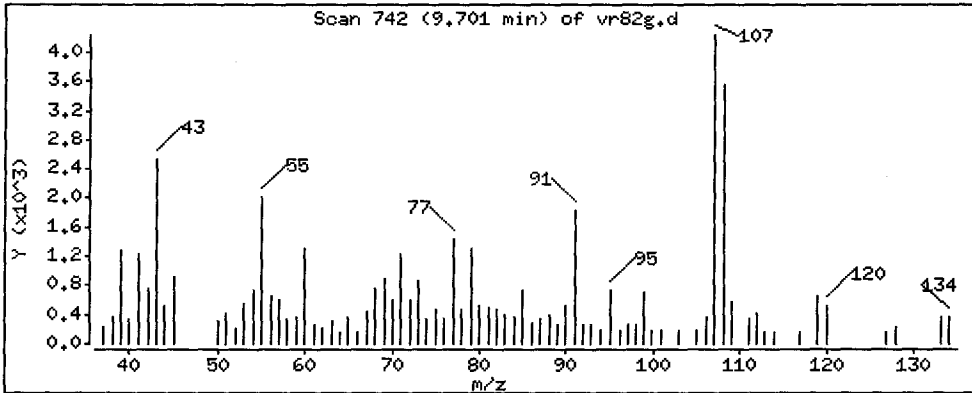
Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 31.52 ug/kg

YZ



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

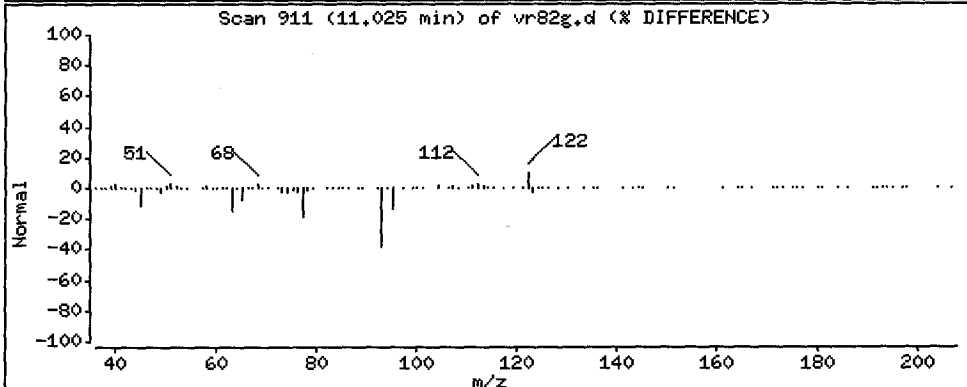
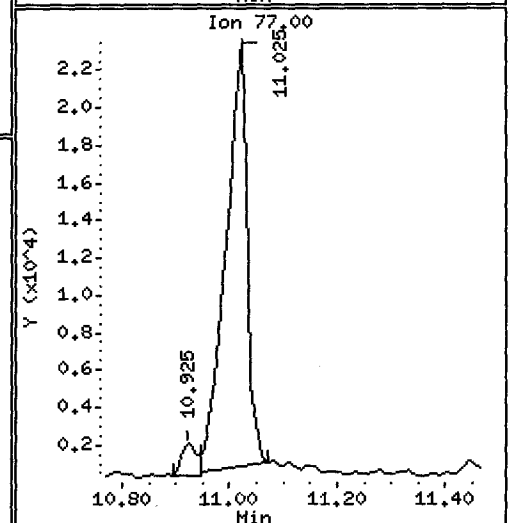
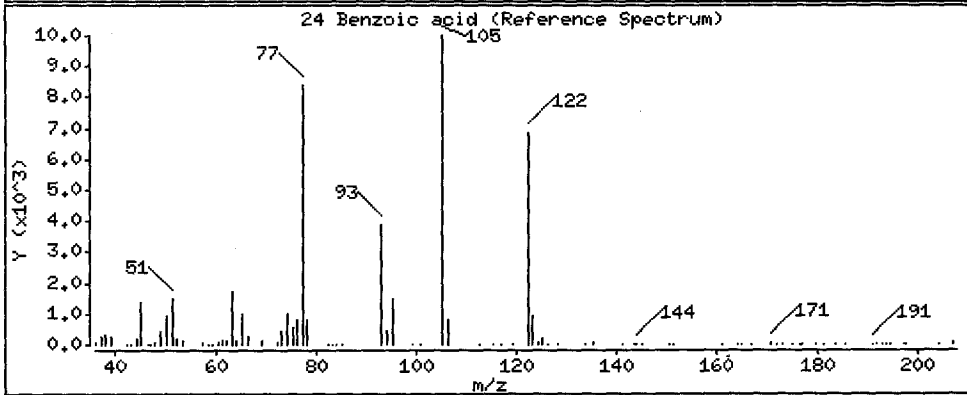
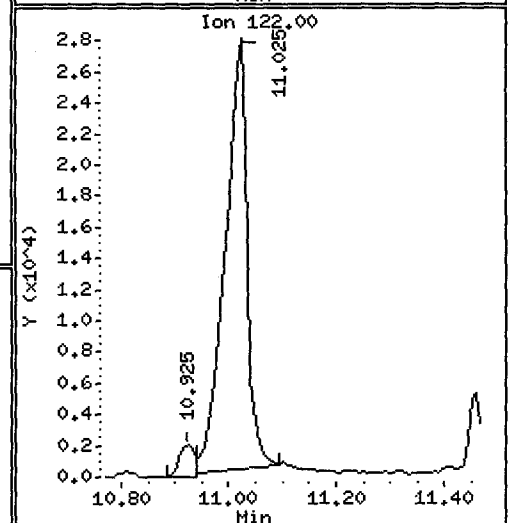
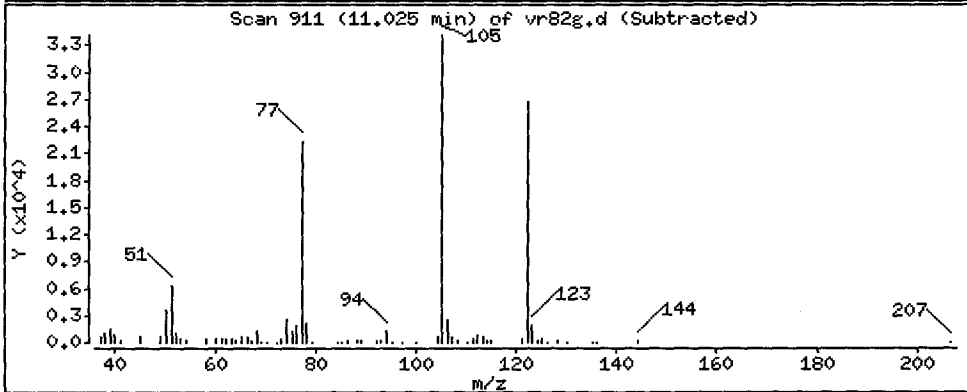
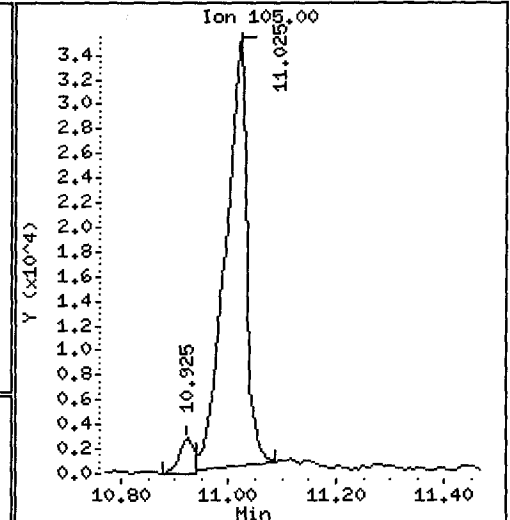
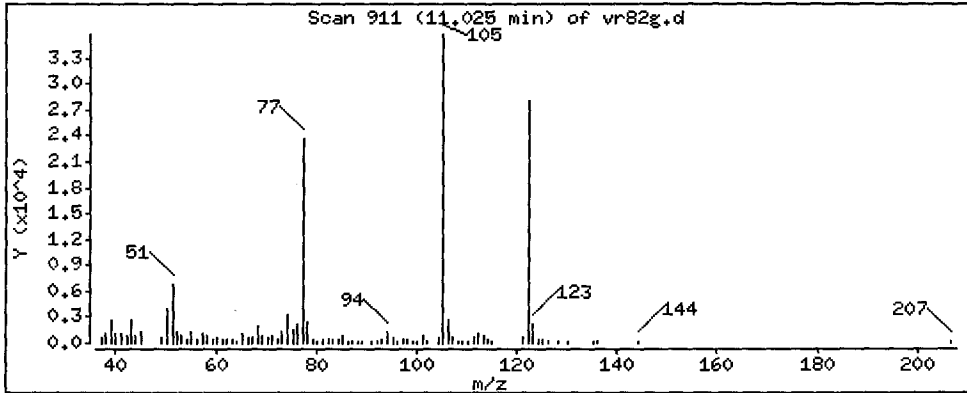
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 475.5 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

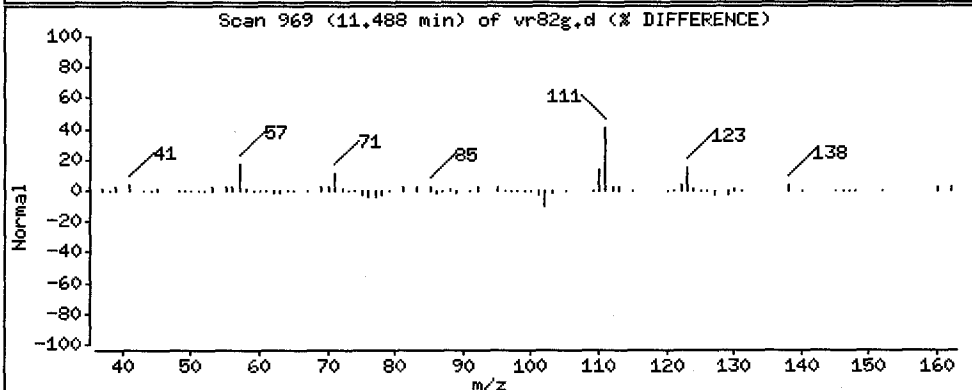
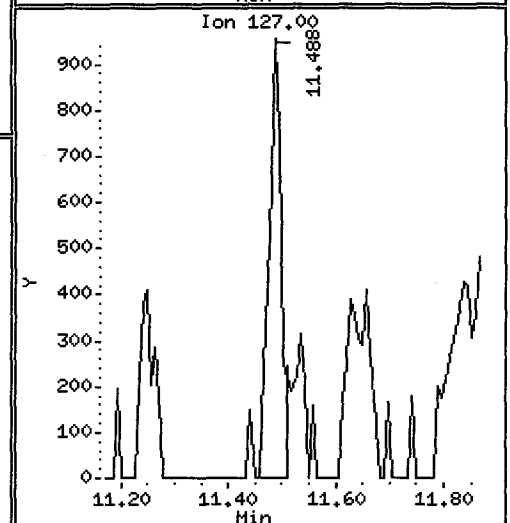
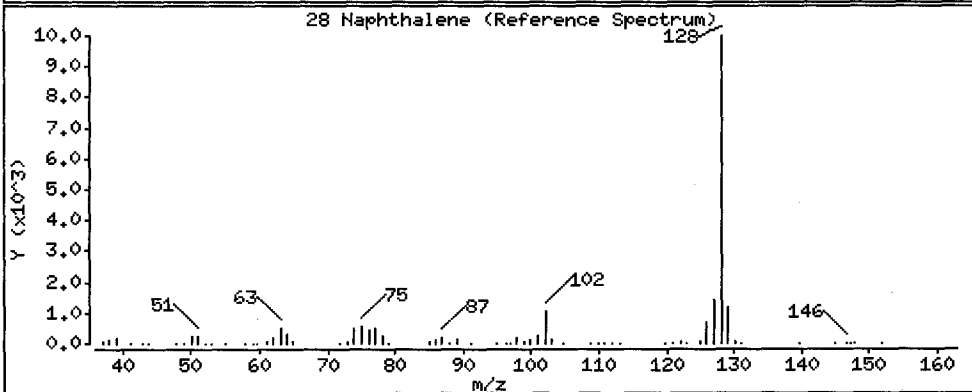
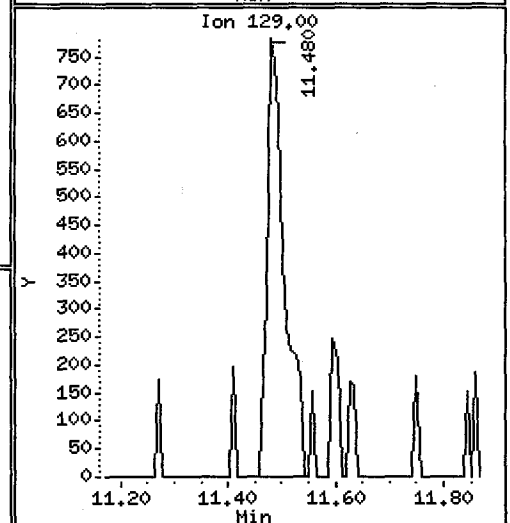
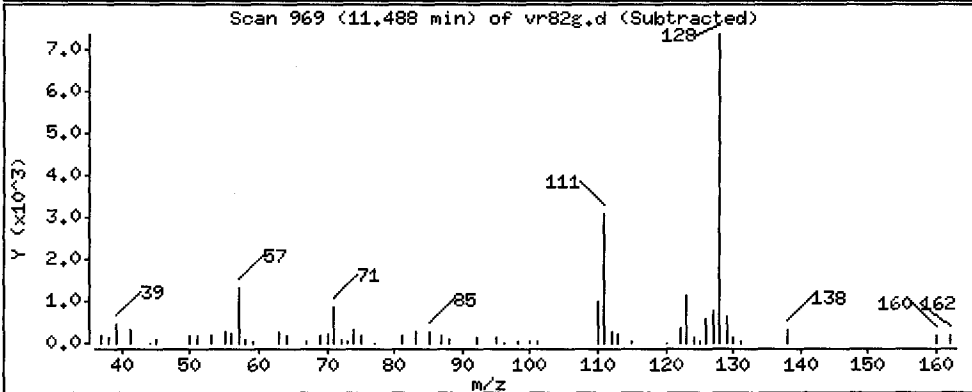
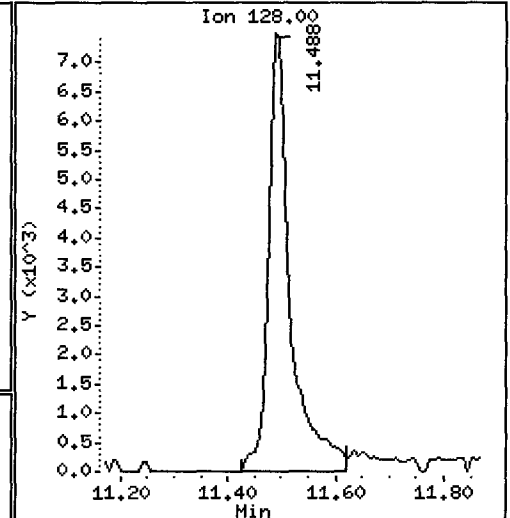
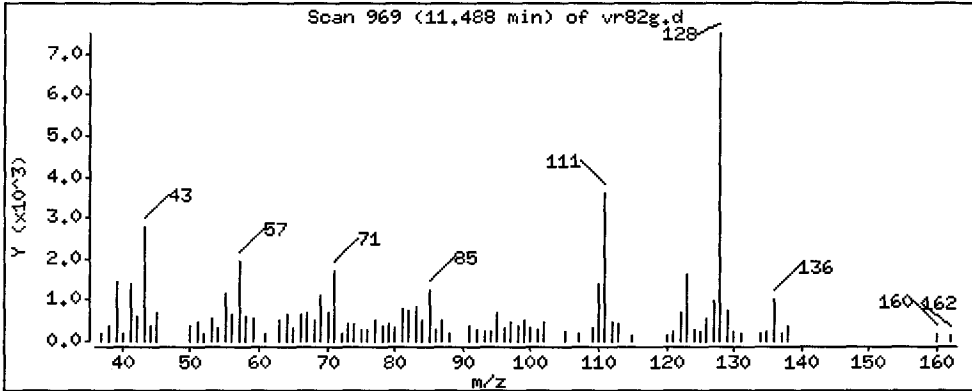
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 25.20 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

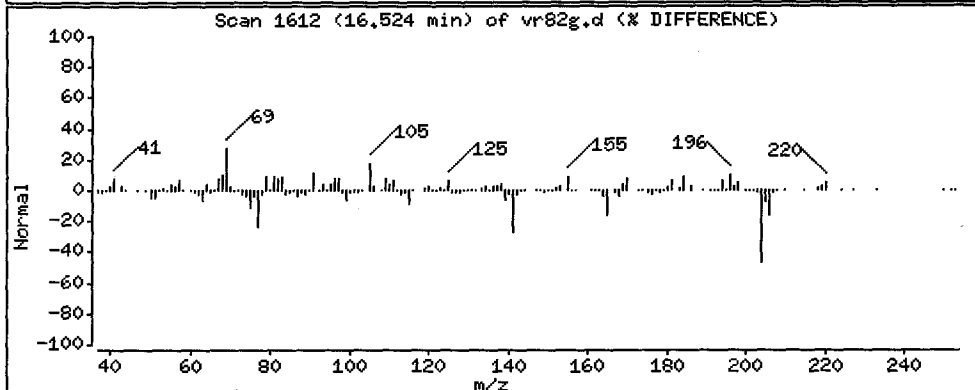
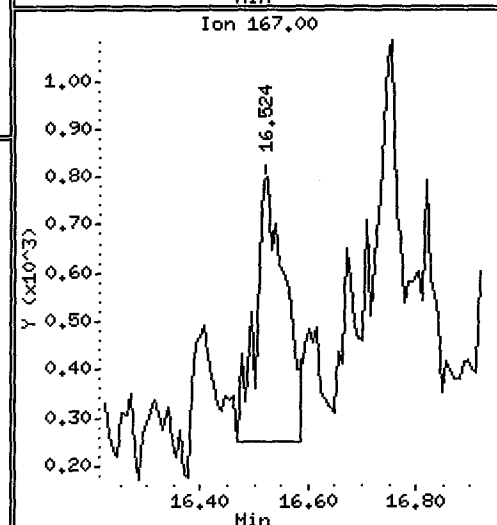
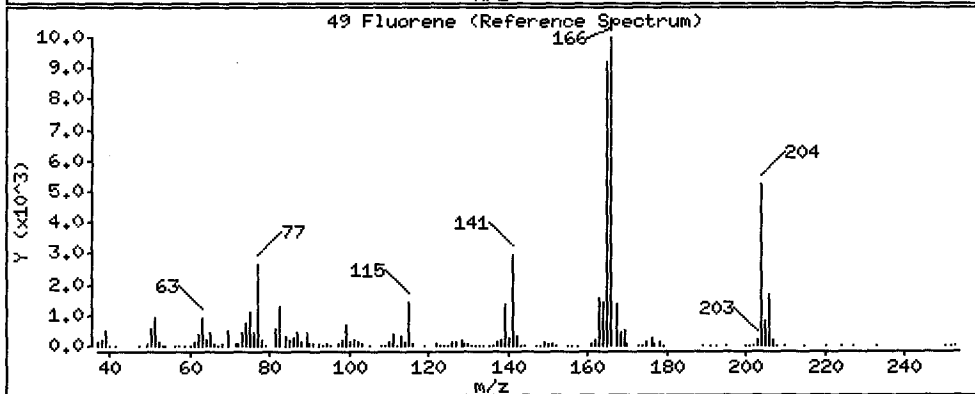
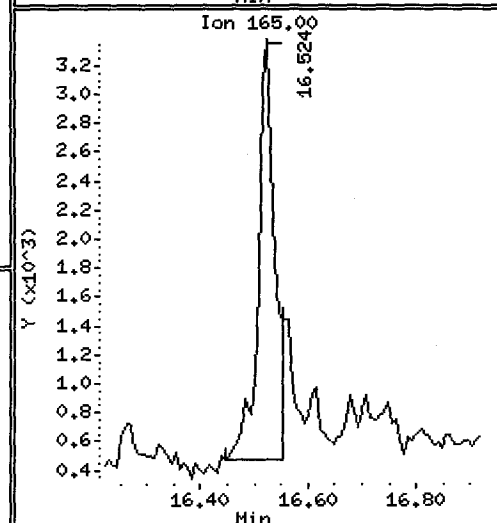
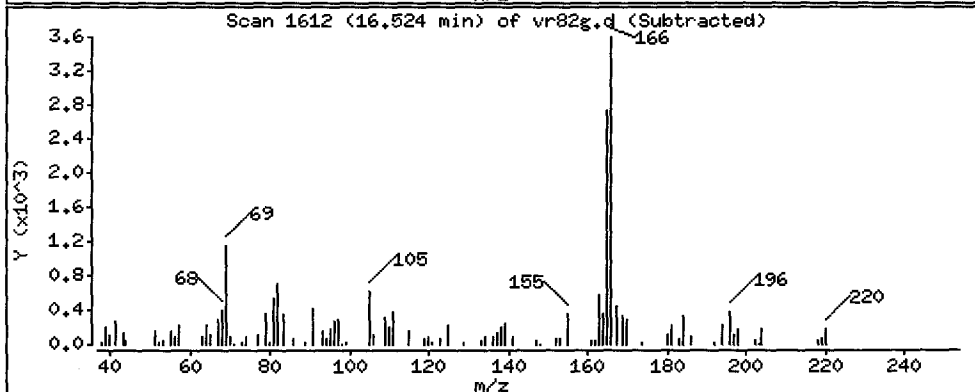
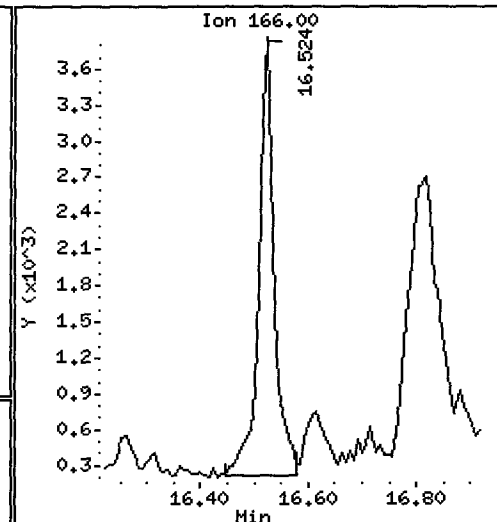
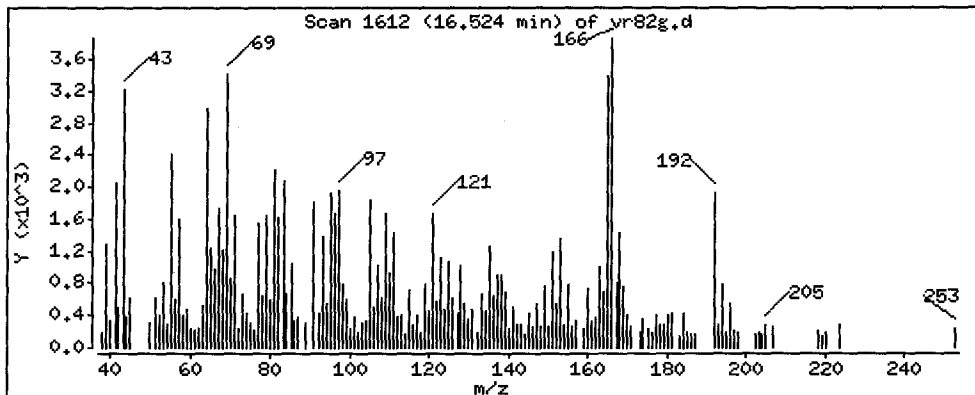
Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 9.754 ug/kg

Dea



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

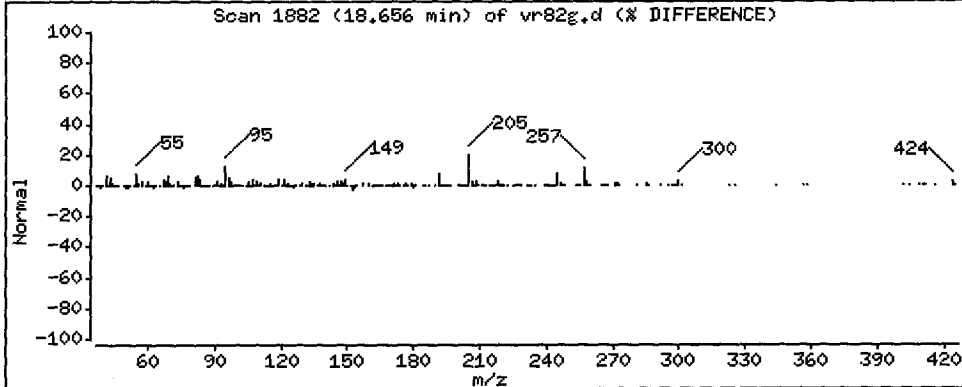
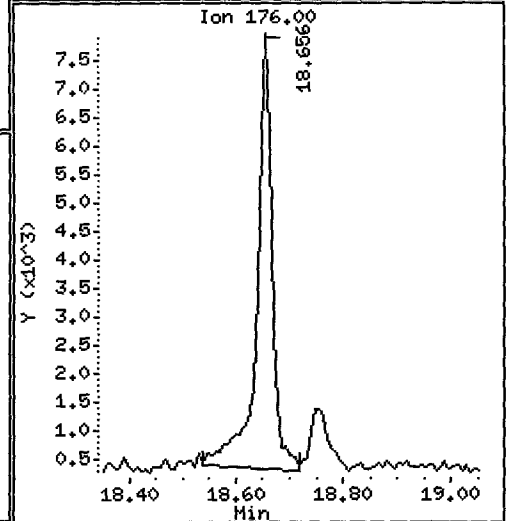
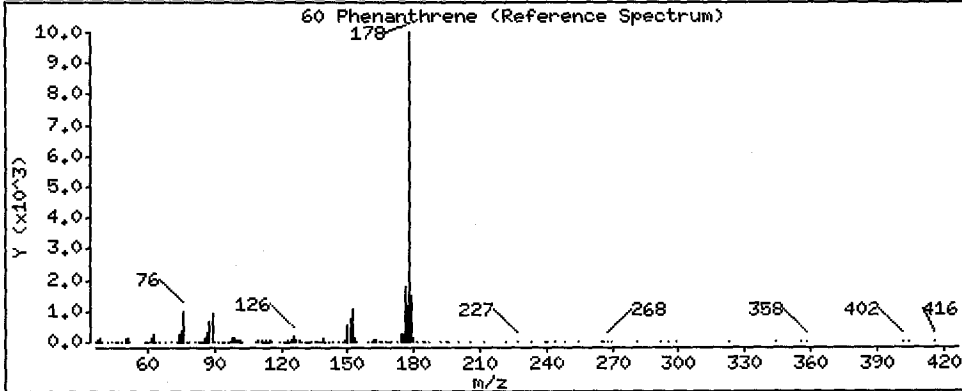
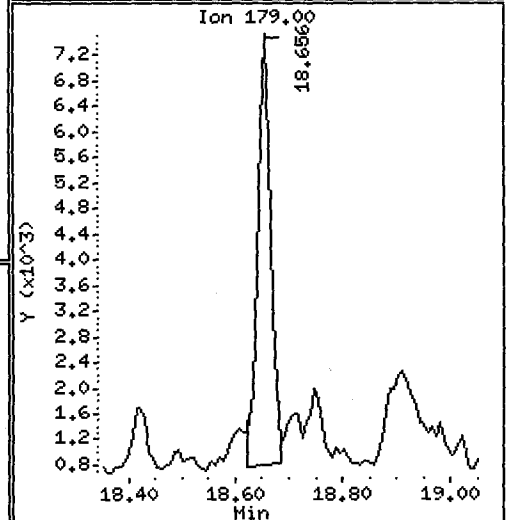
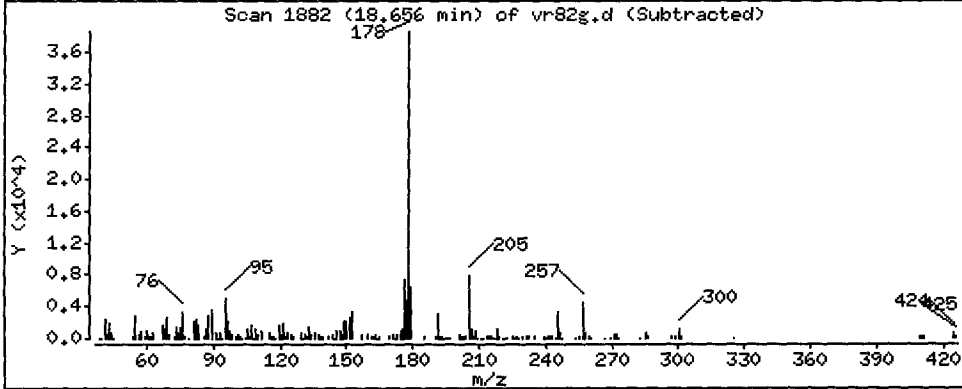
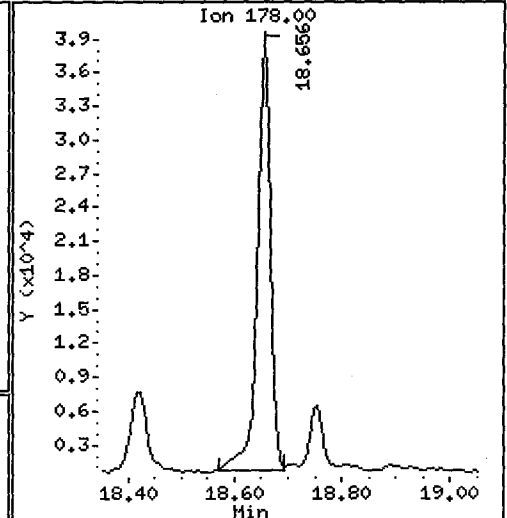
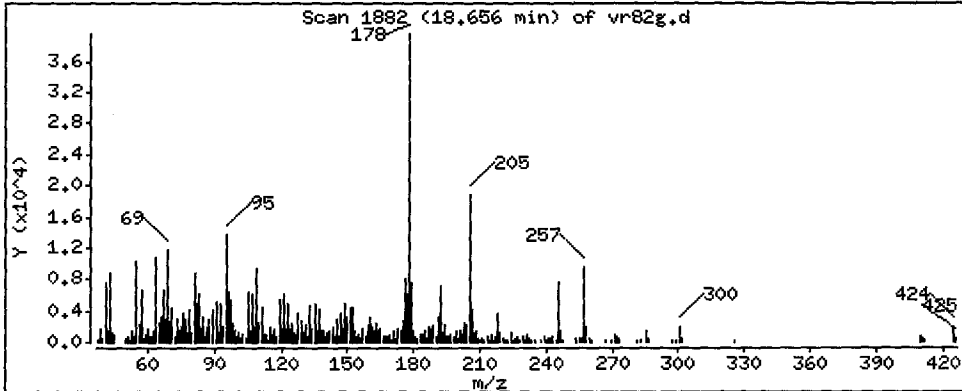
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 68.24 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

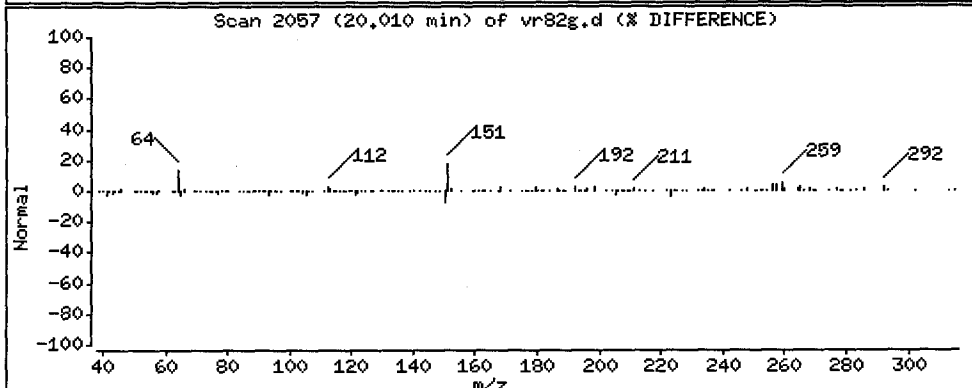
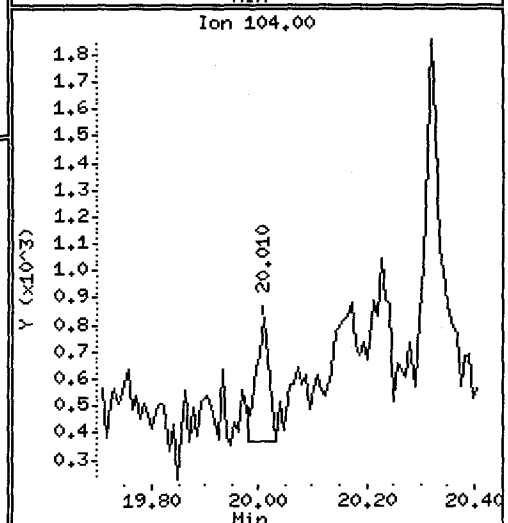
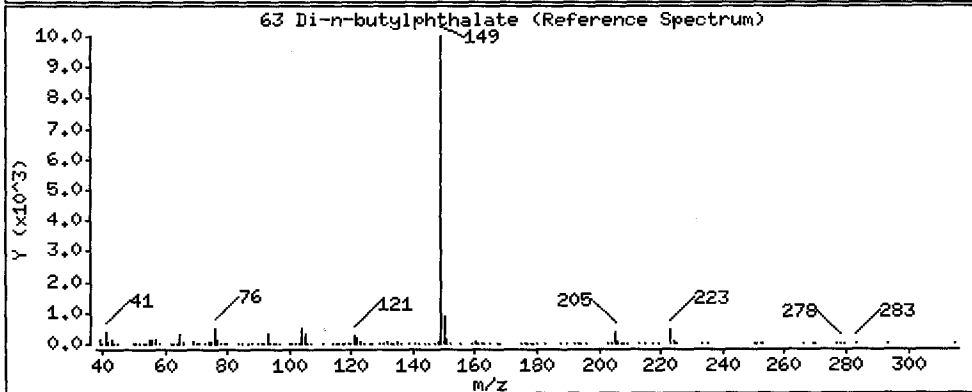
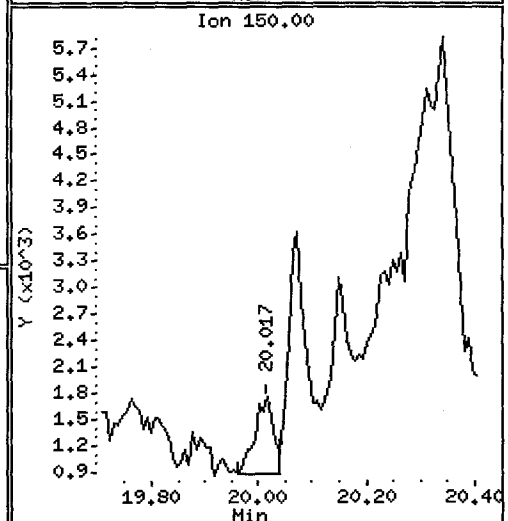
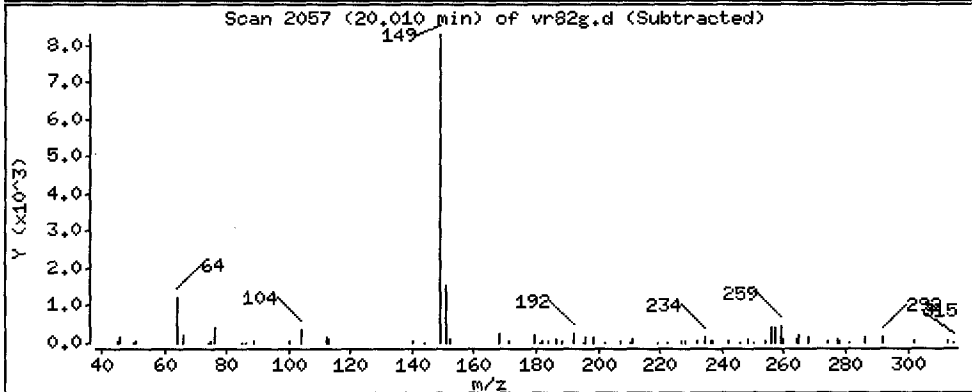
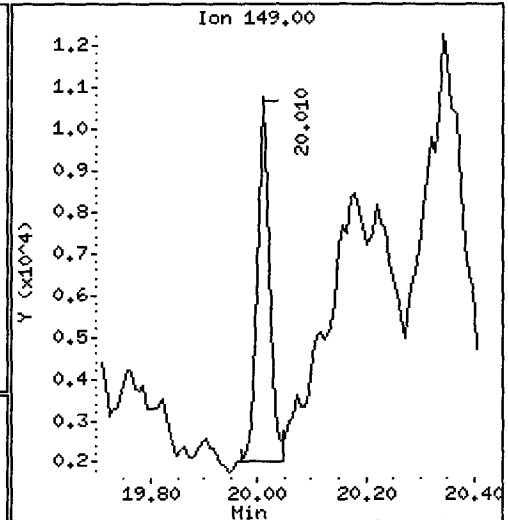
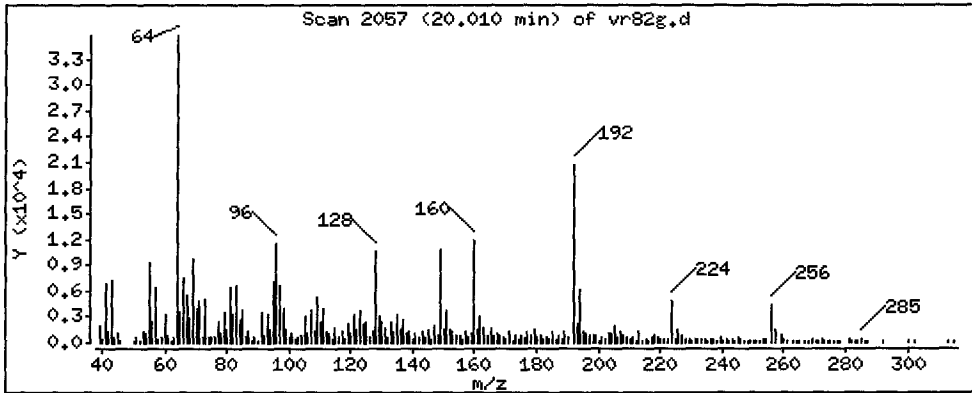
Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 11.19 ug/kg

Handwritten signature



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

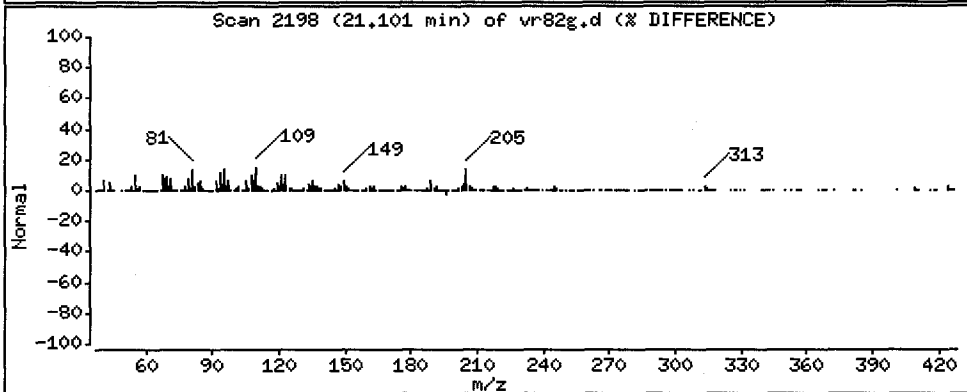
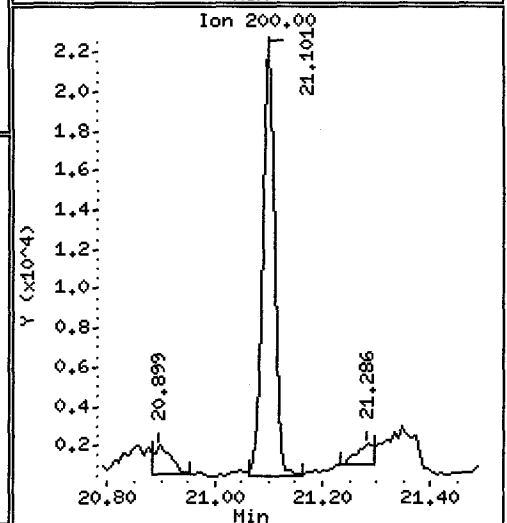
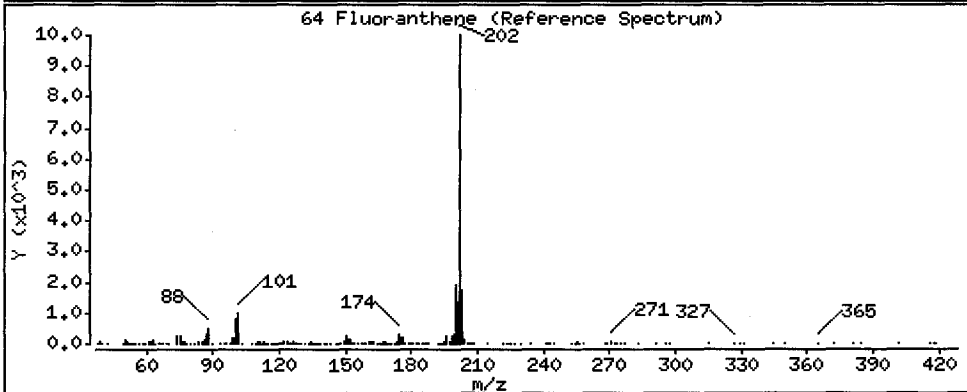
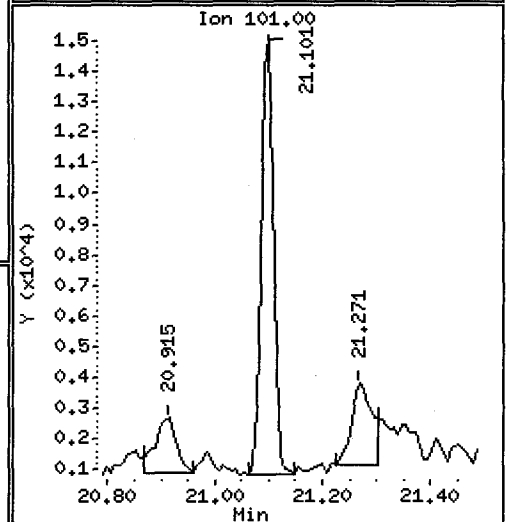
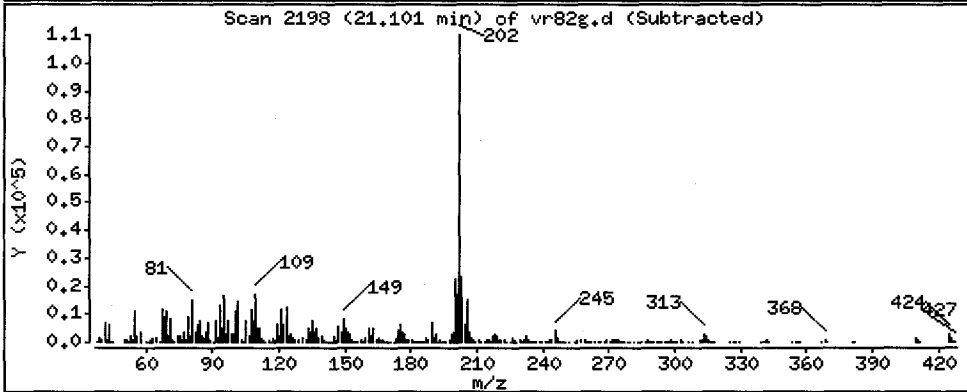
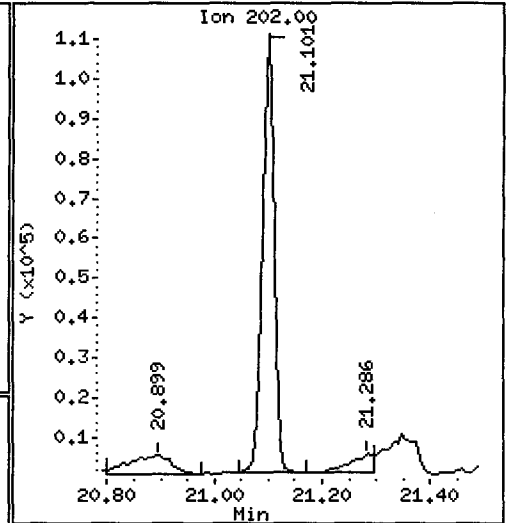
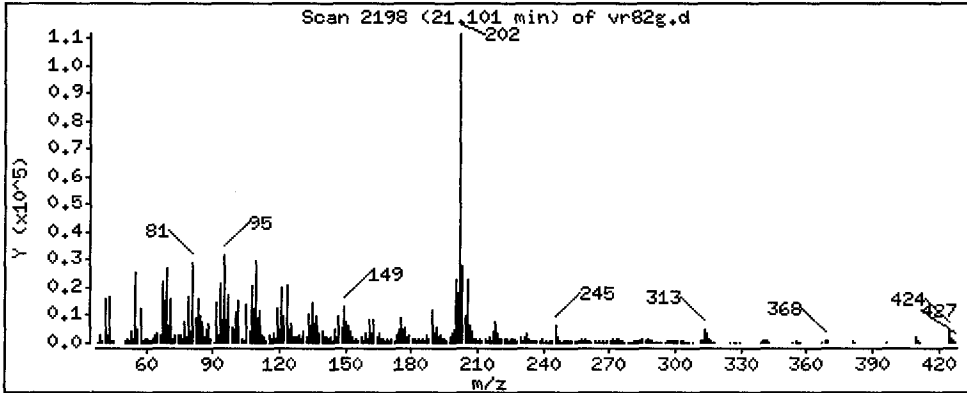
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 139.4 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

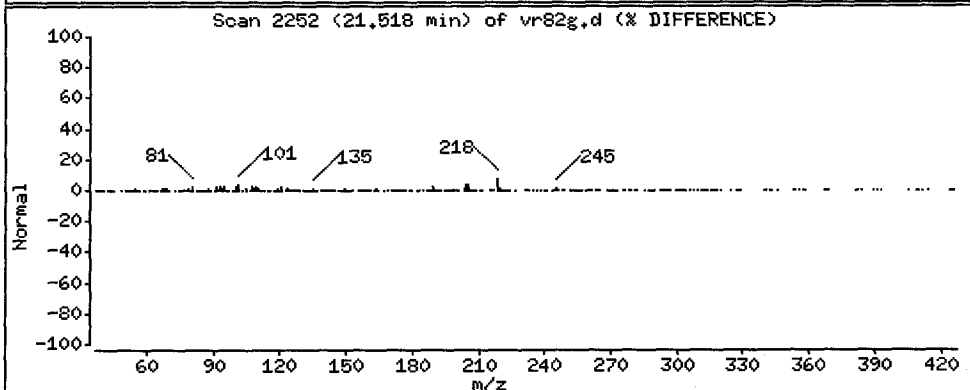
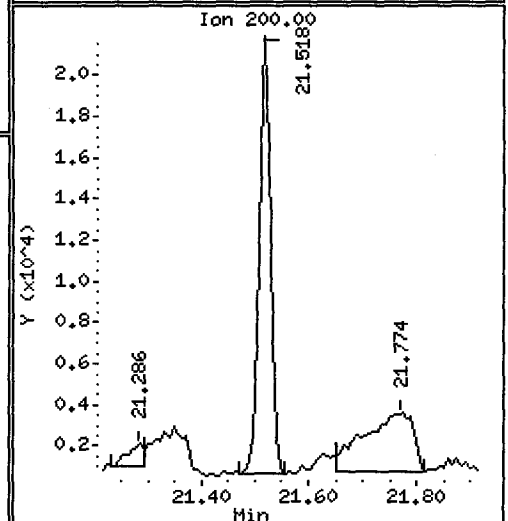
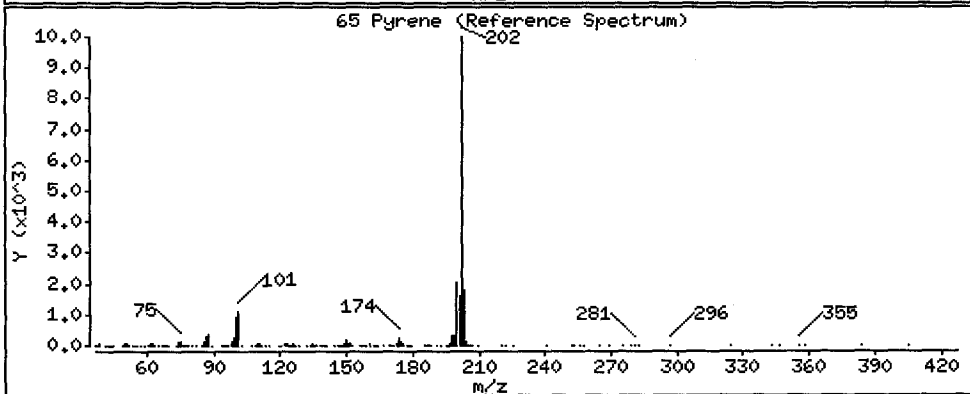
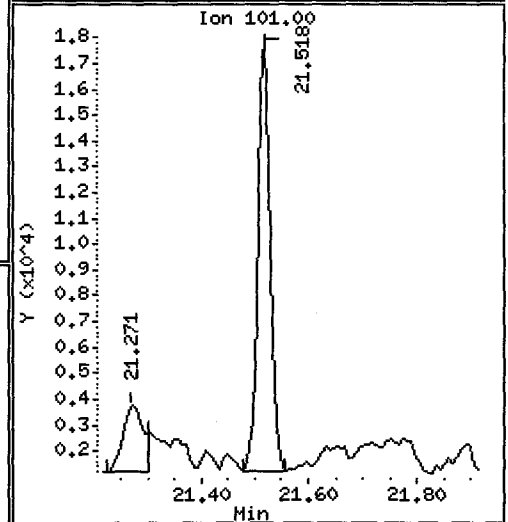
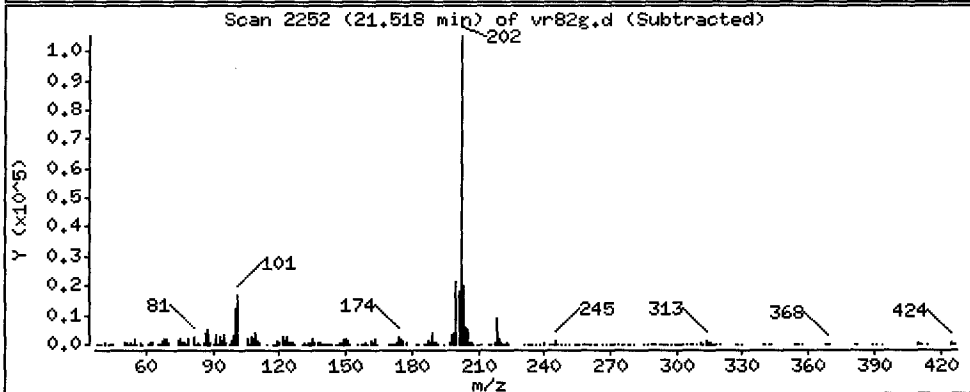
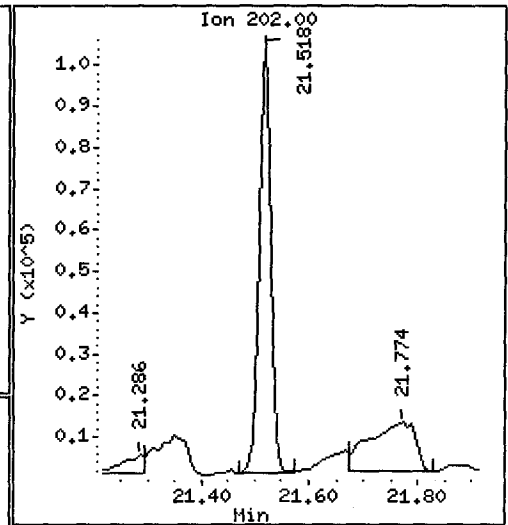
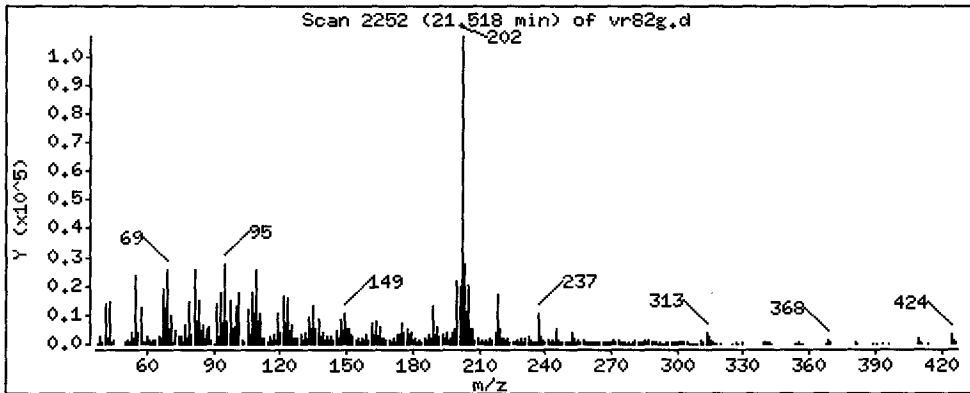
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 127.5 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

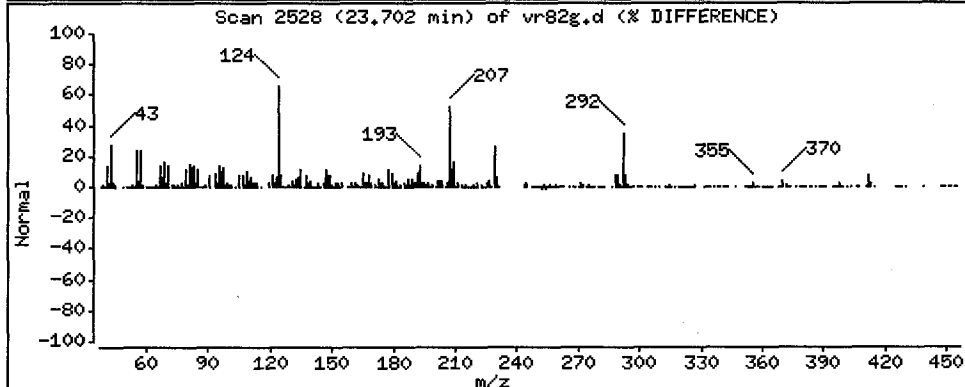
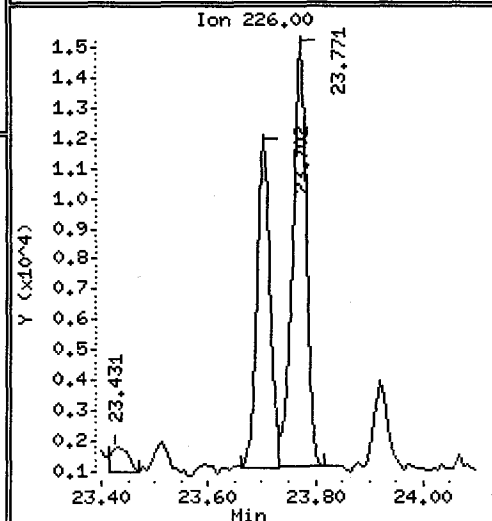
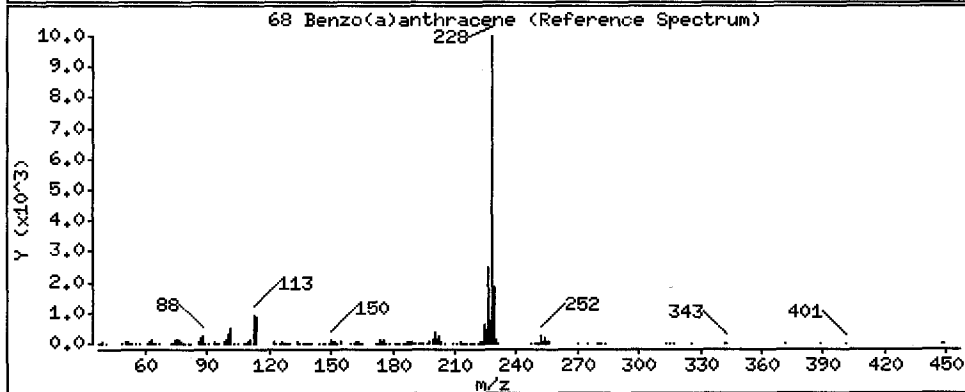
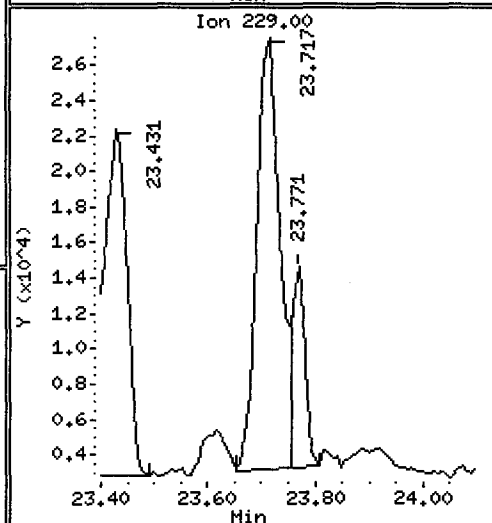
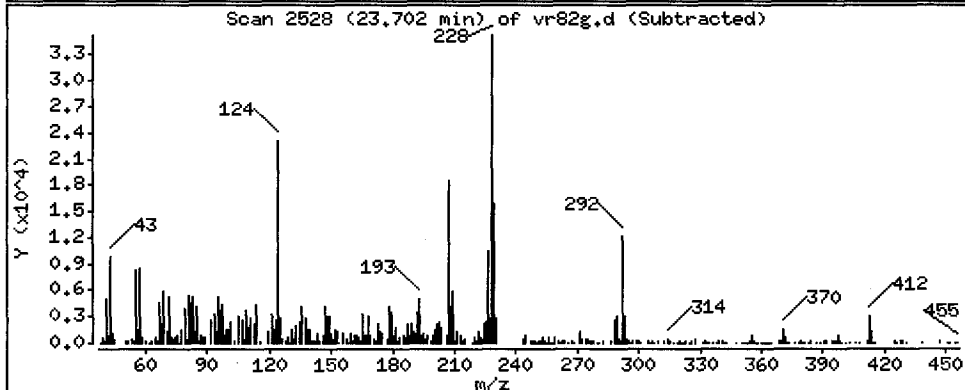
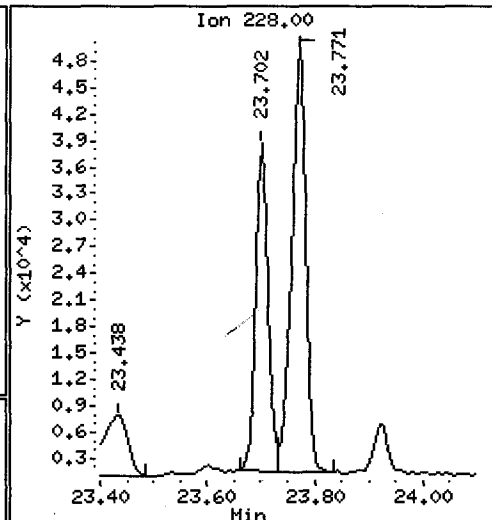
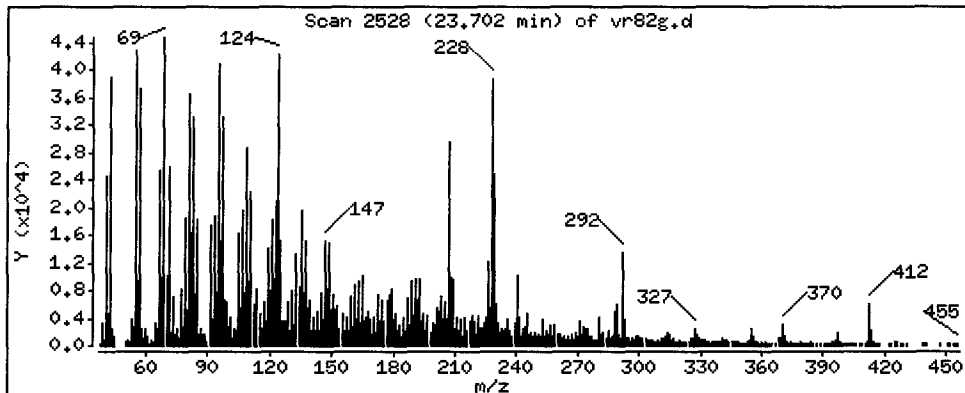
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 51.26 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

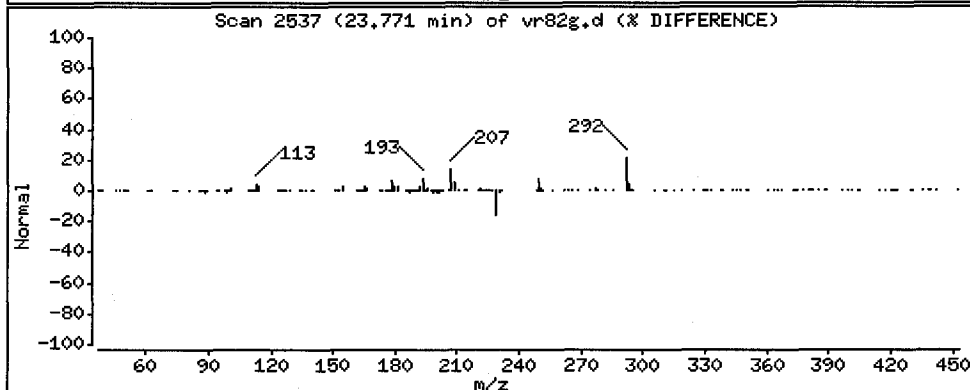
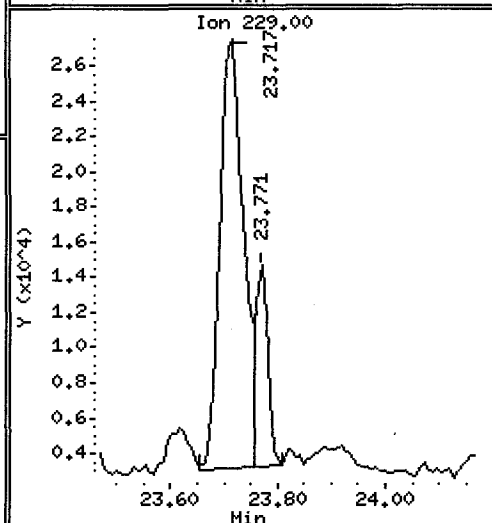
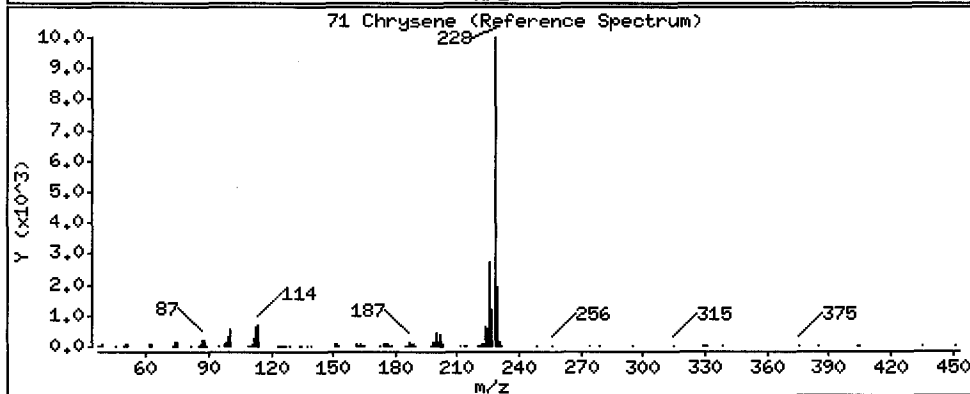
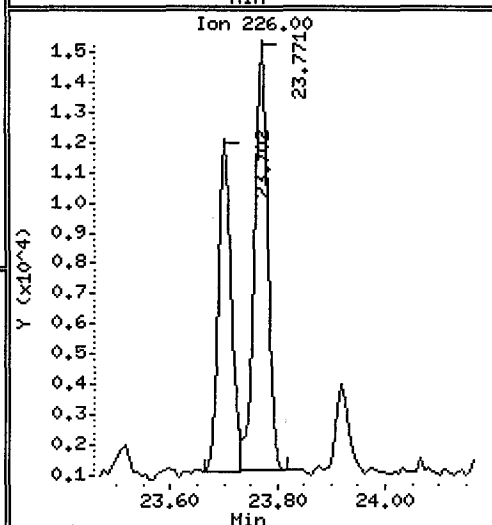
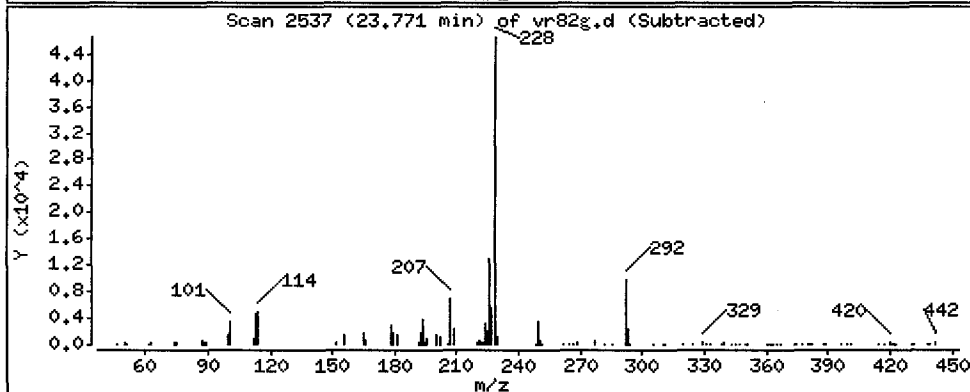
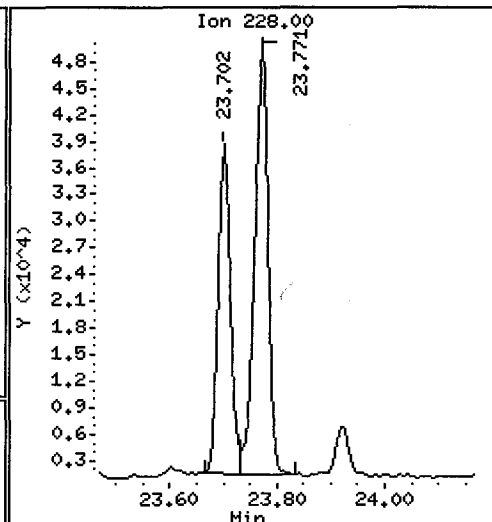
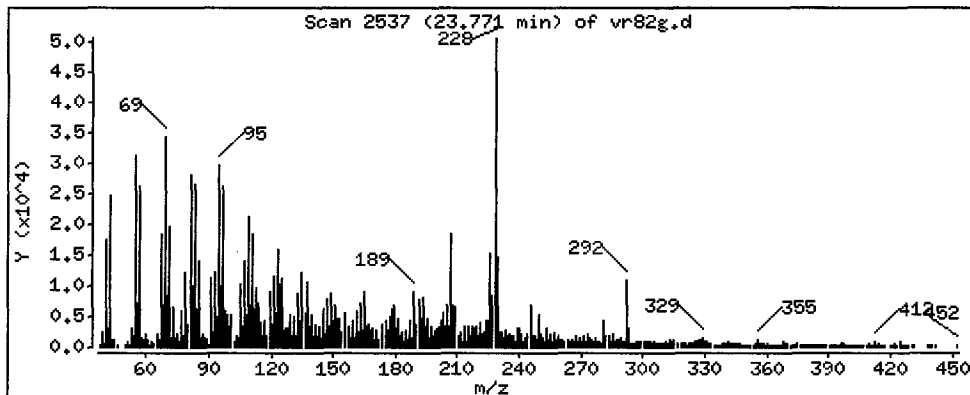
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 81.80 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

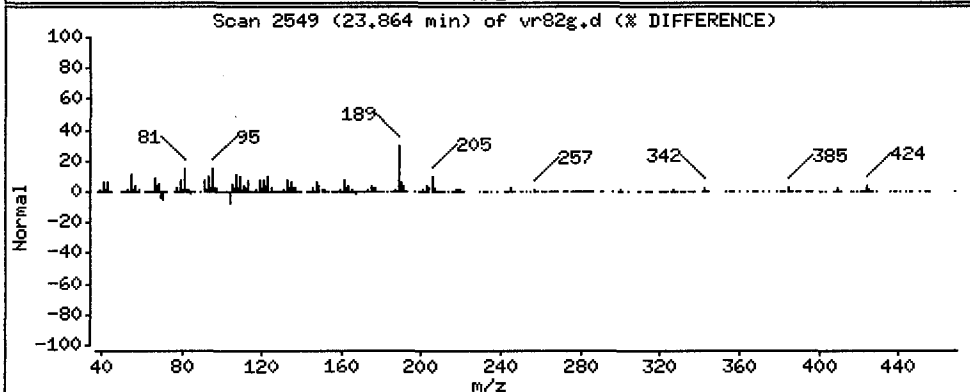
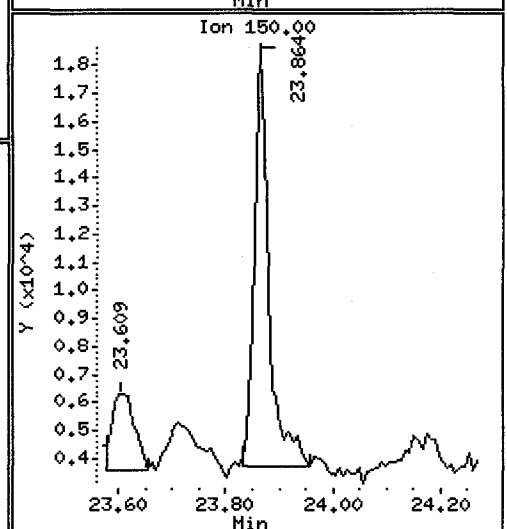
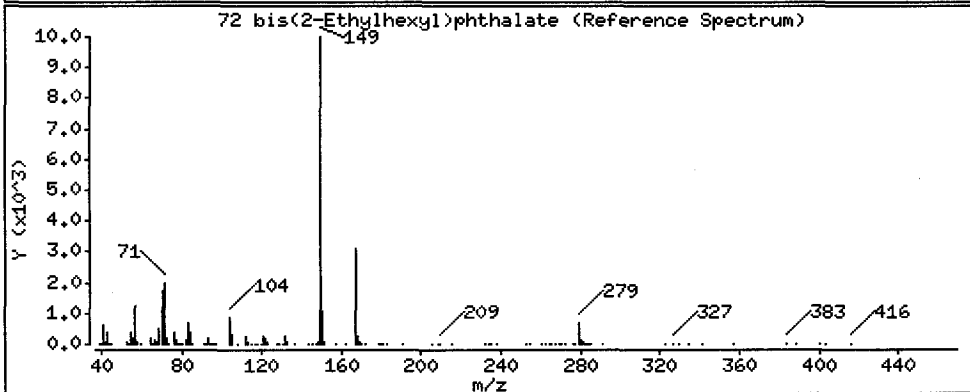
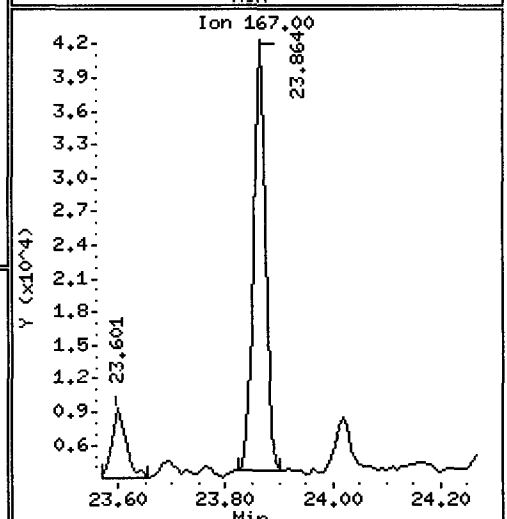
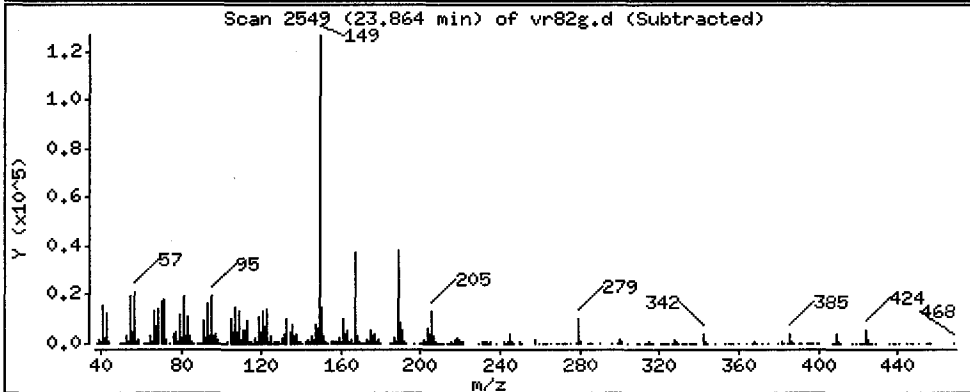
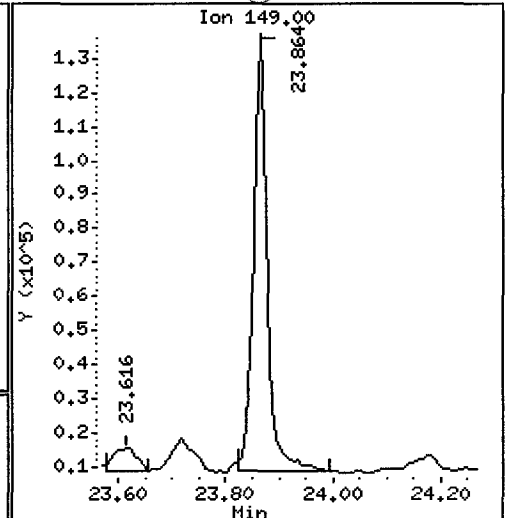
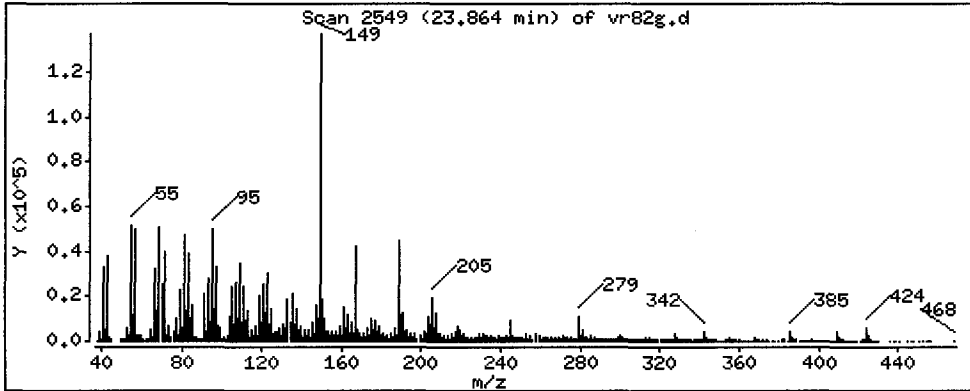
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 300.5 ug/kg

ⓑ



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

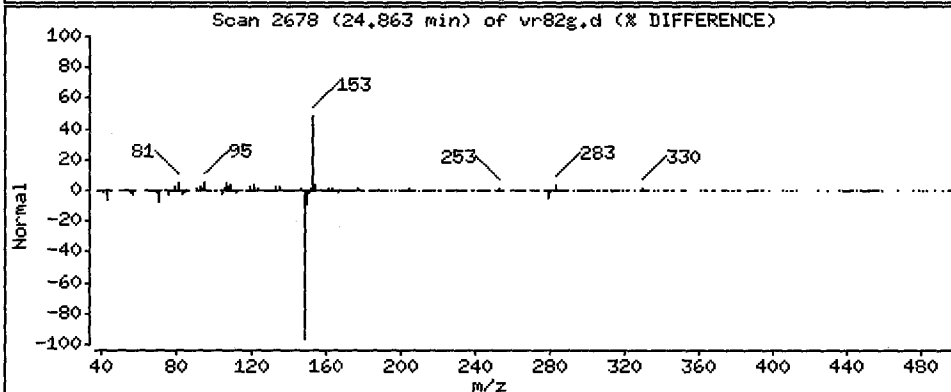
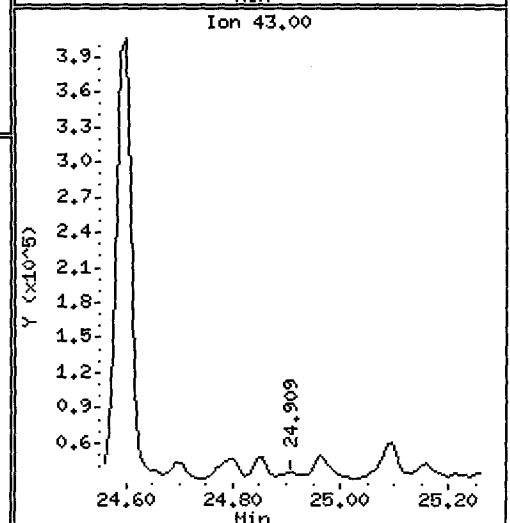
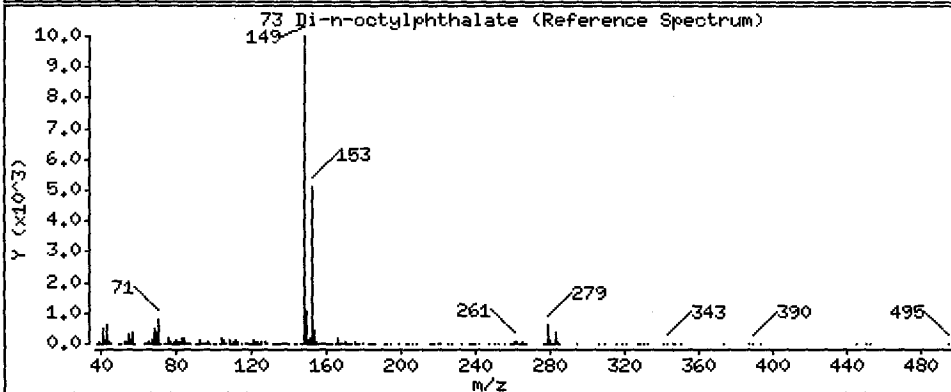
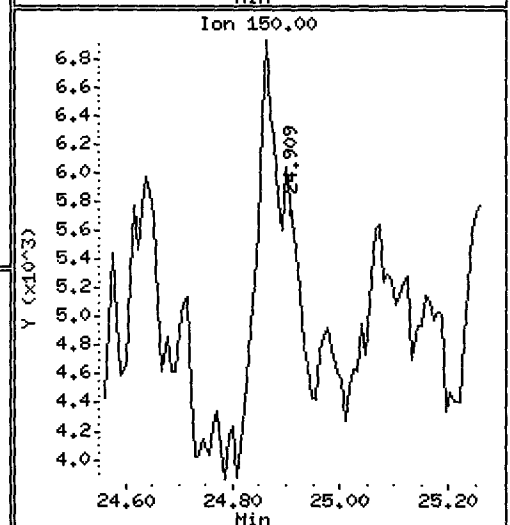
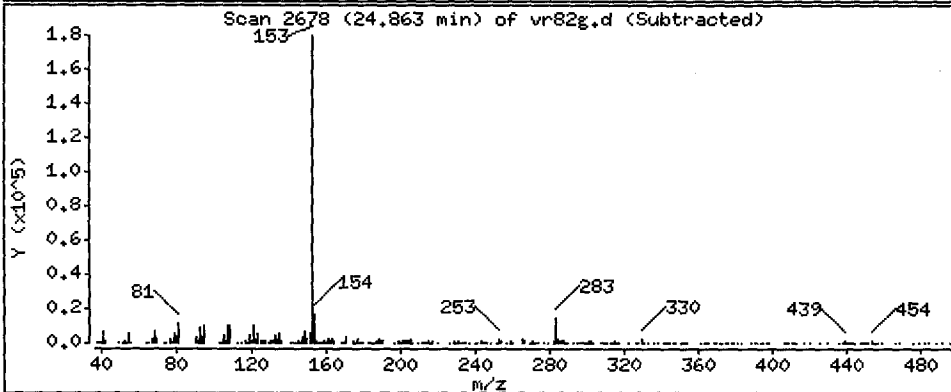
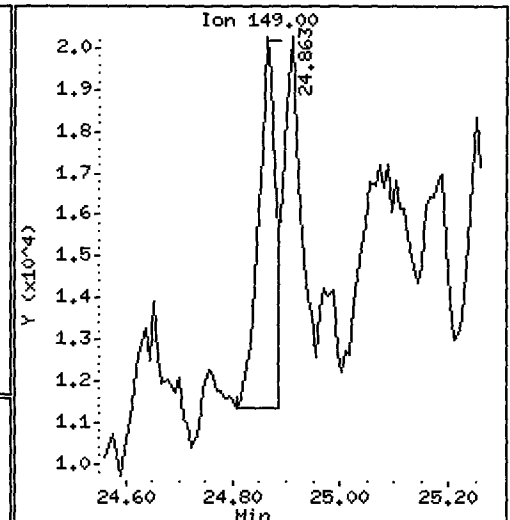
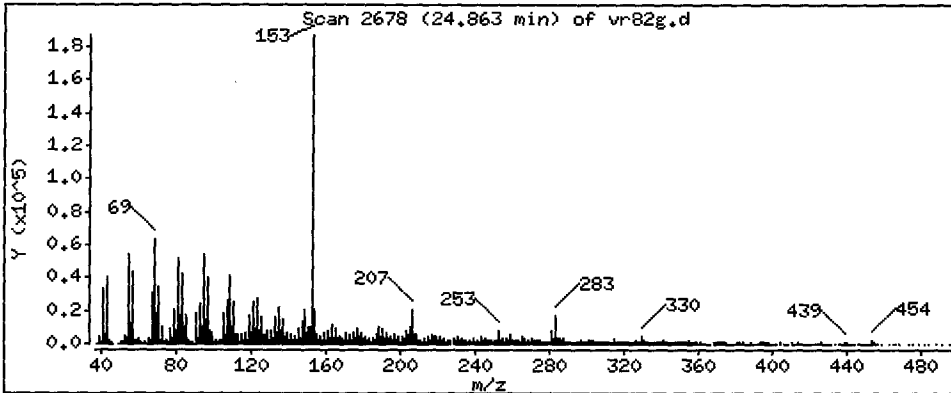
Column phase: ZB-5msi

Column diameter: 0.25

*NOT
REPORTED*

73 Di-n-octylphthalate

Concentration: 16.00 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

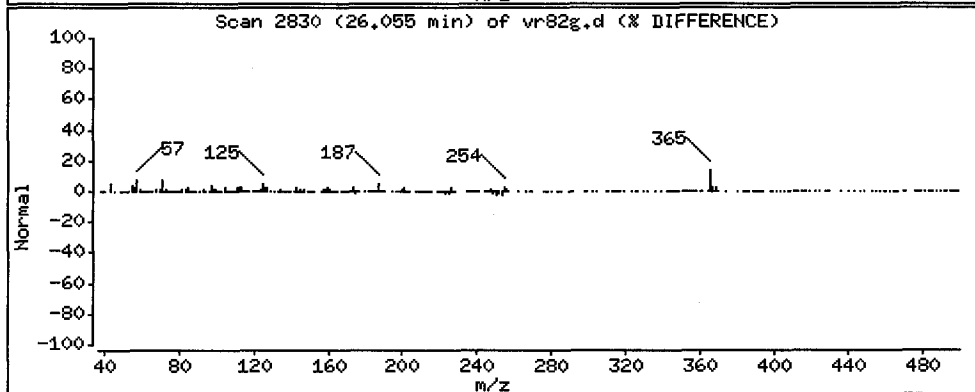
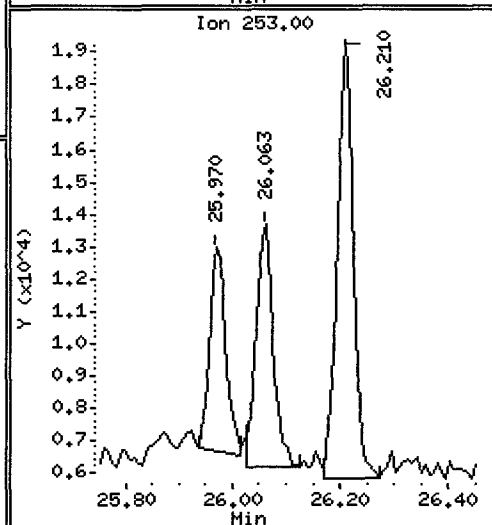
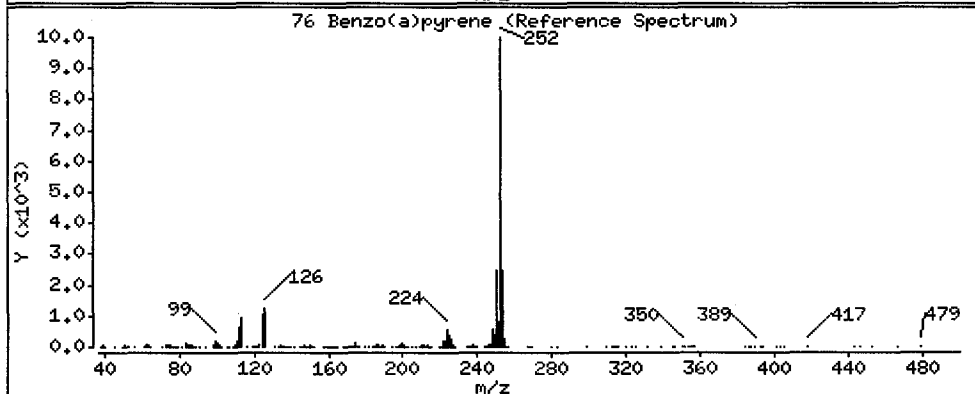
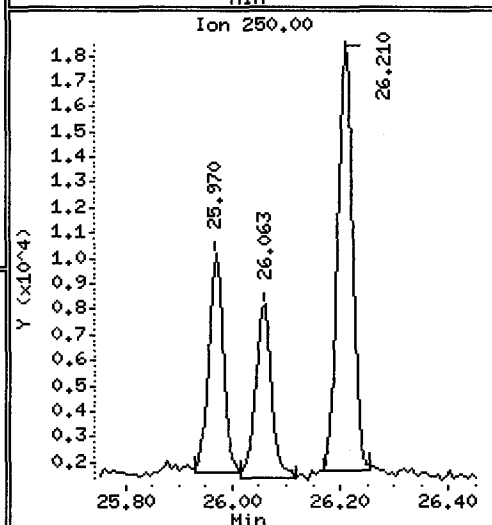
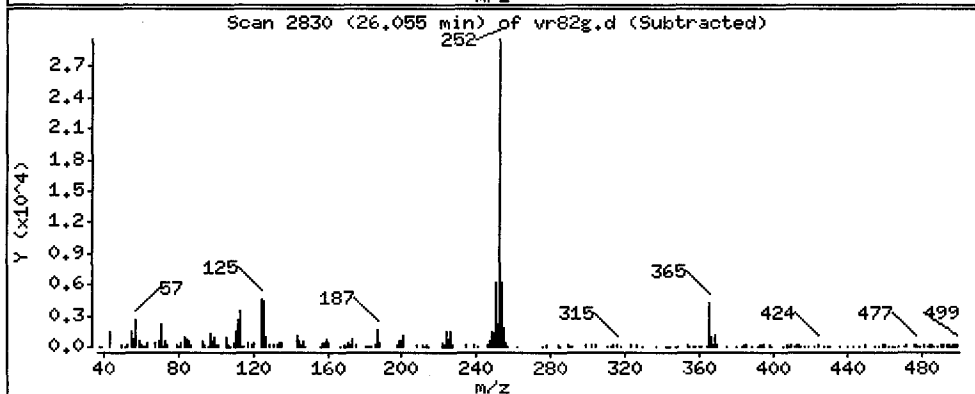
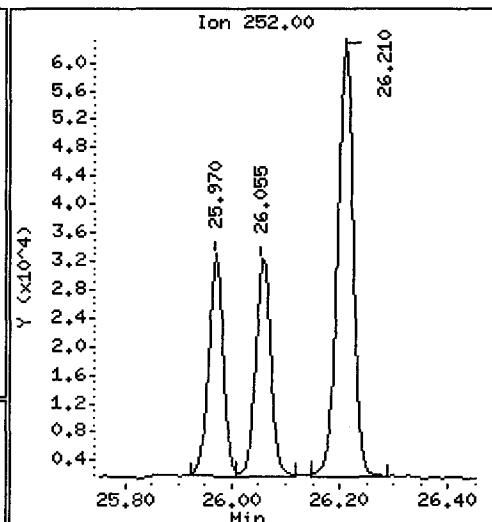
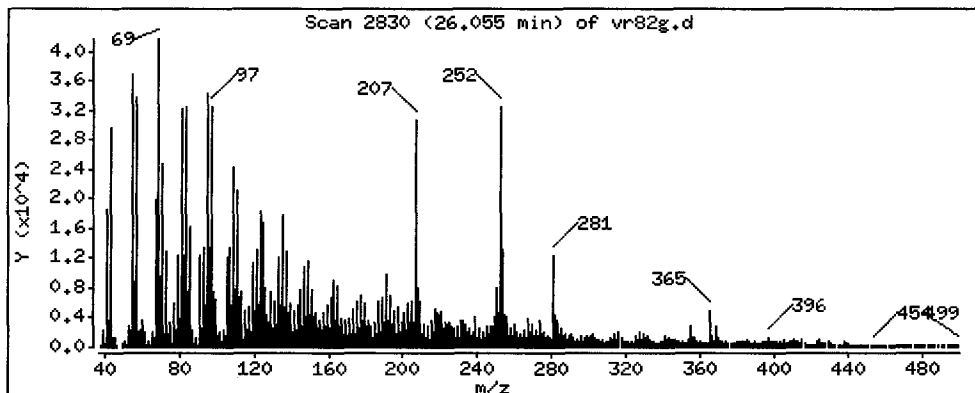
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 55.32 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

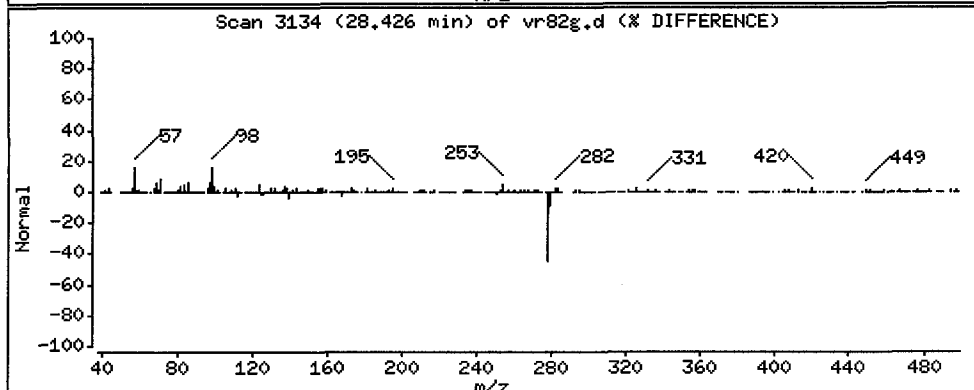
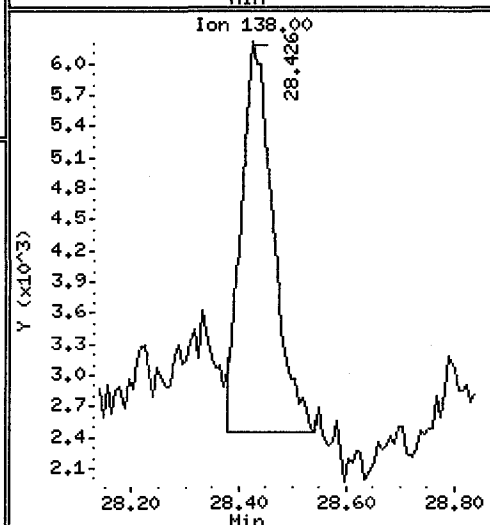
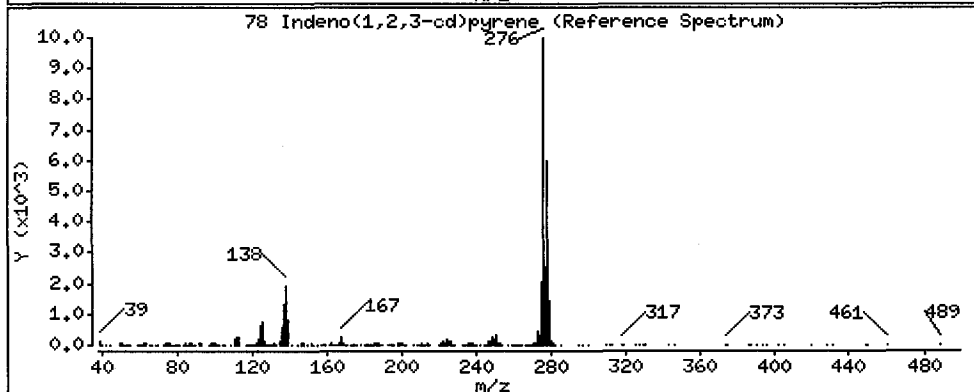
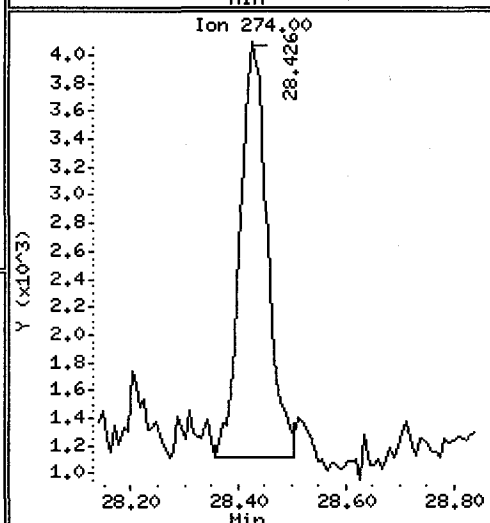
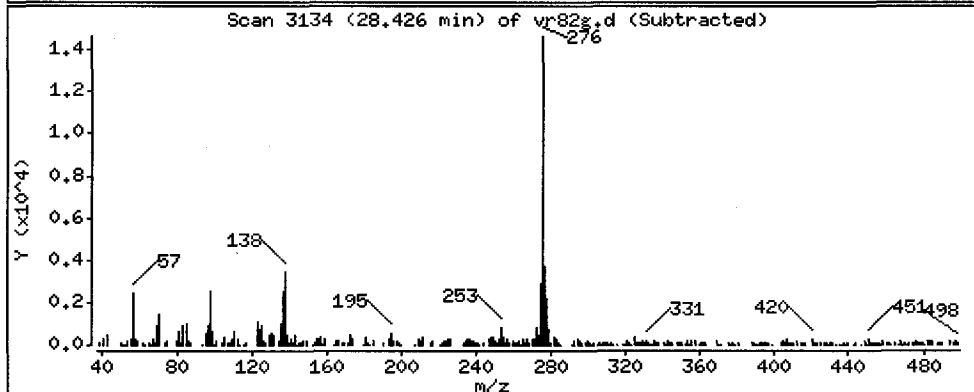
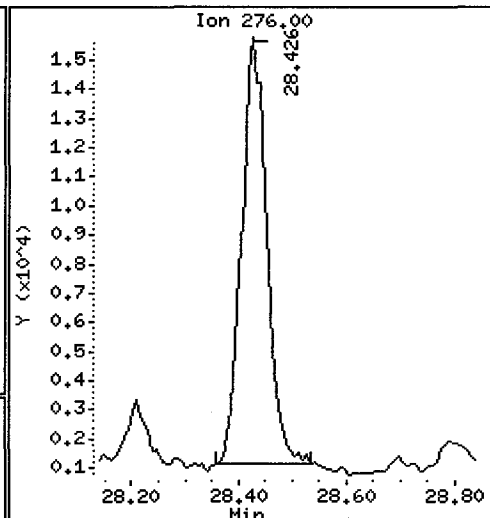
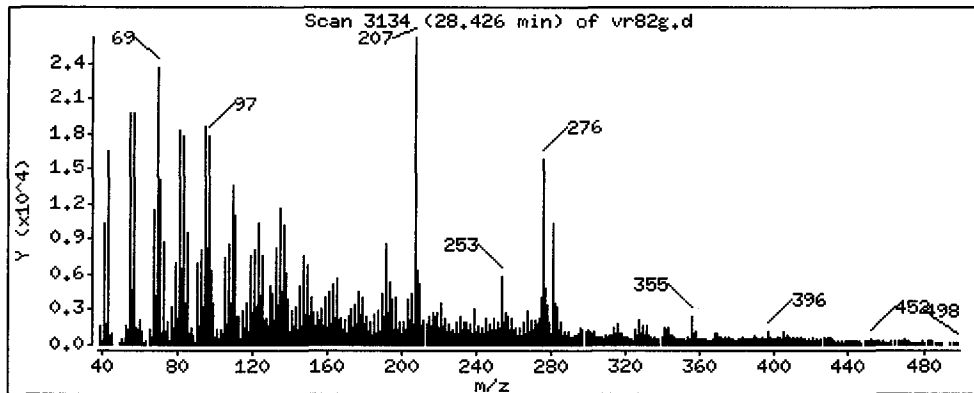
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 37.71 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

Operator: VTS/YZ

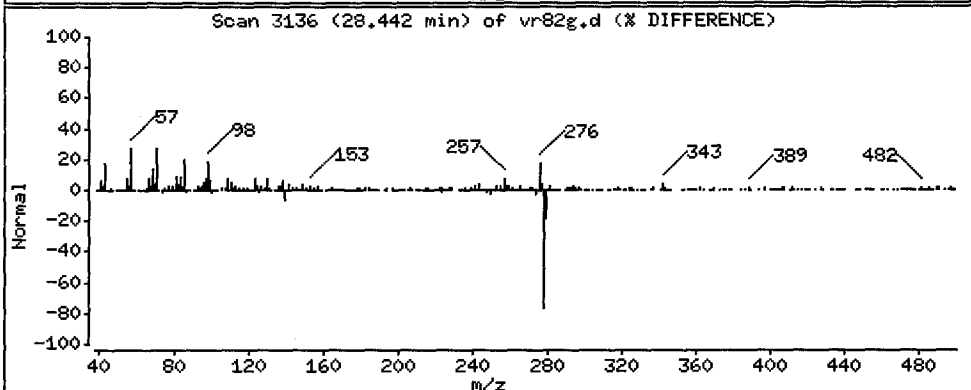
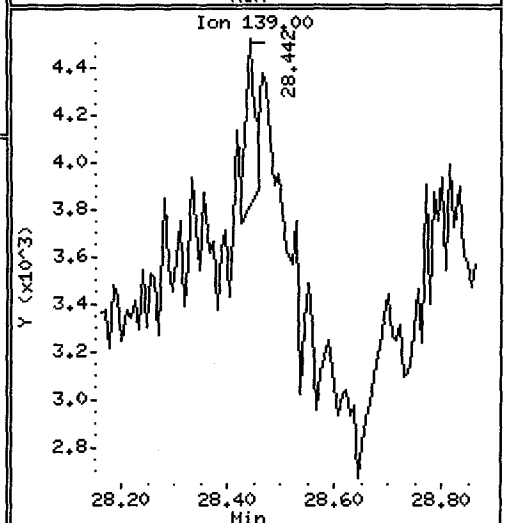
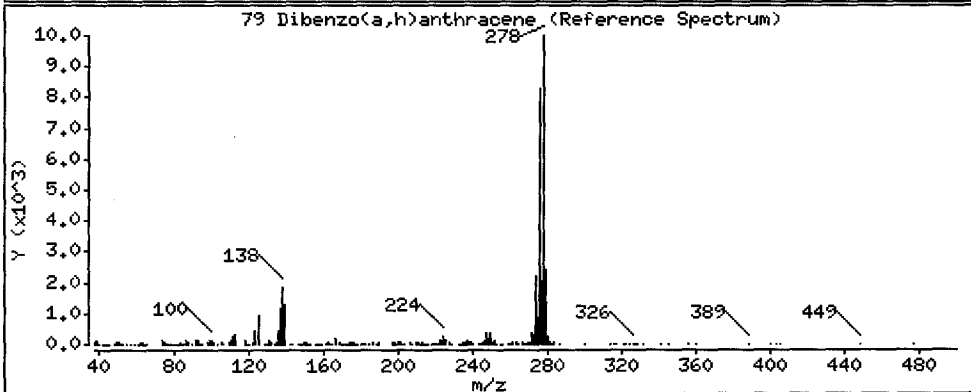
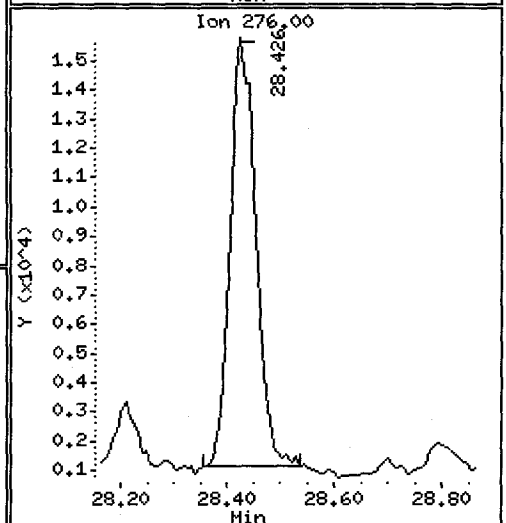
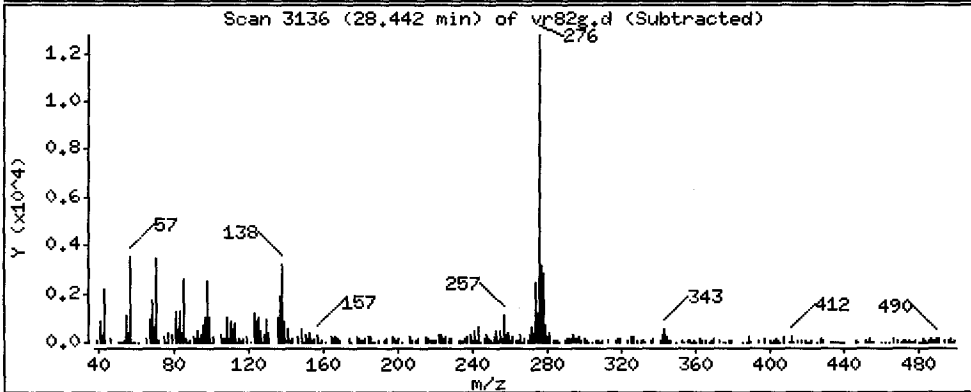
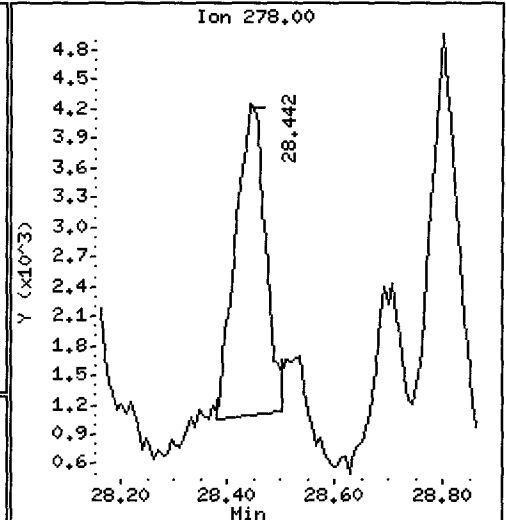
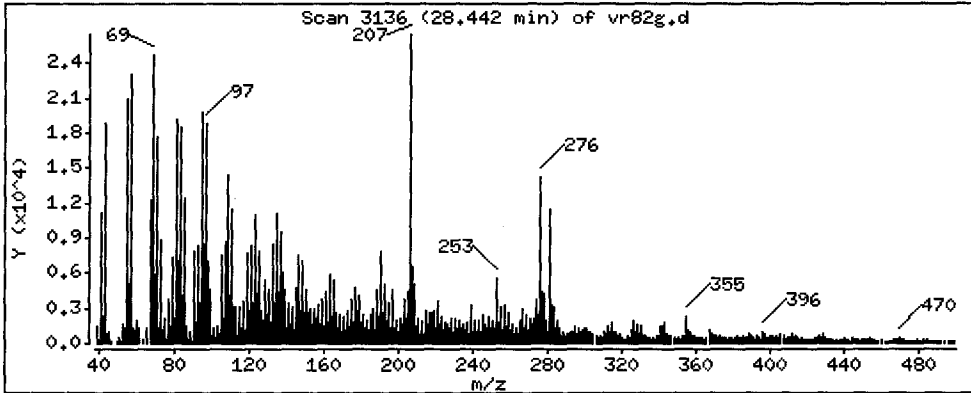
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 12.01 ug/kg

GC/MS



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

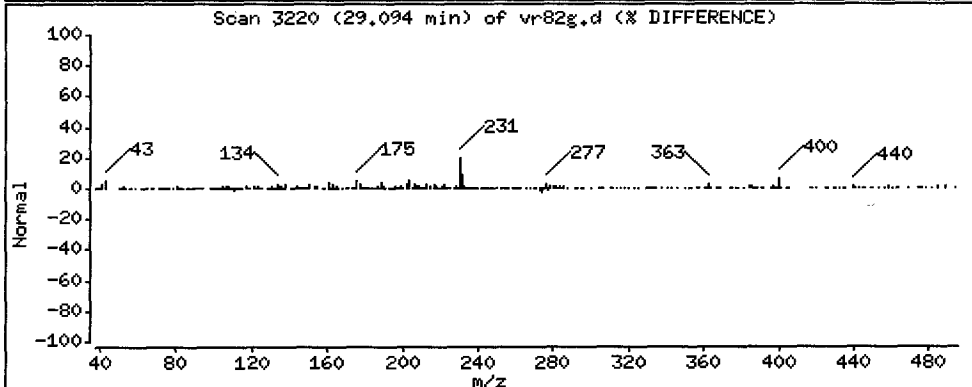
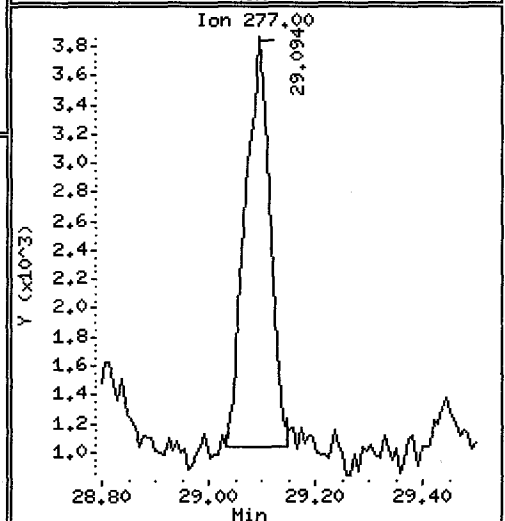
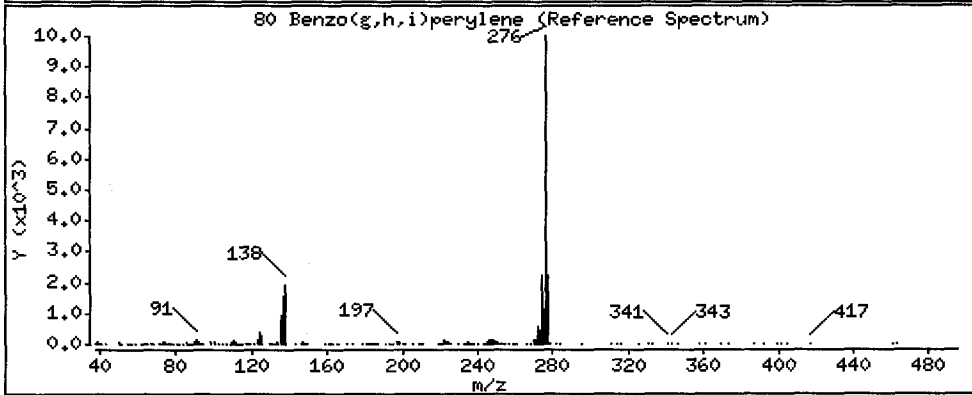
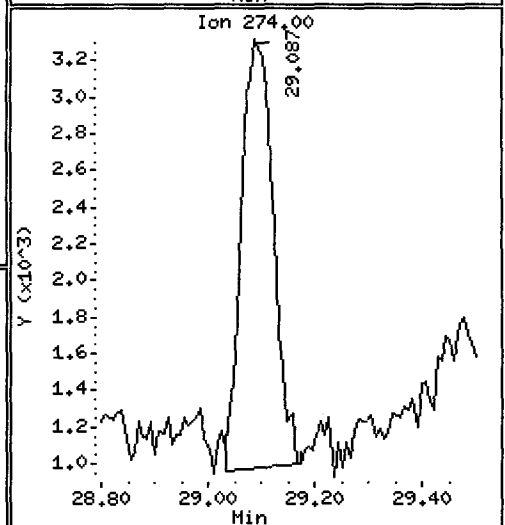
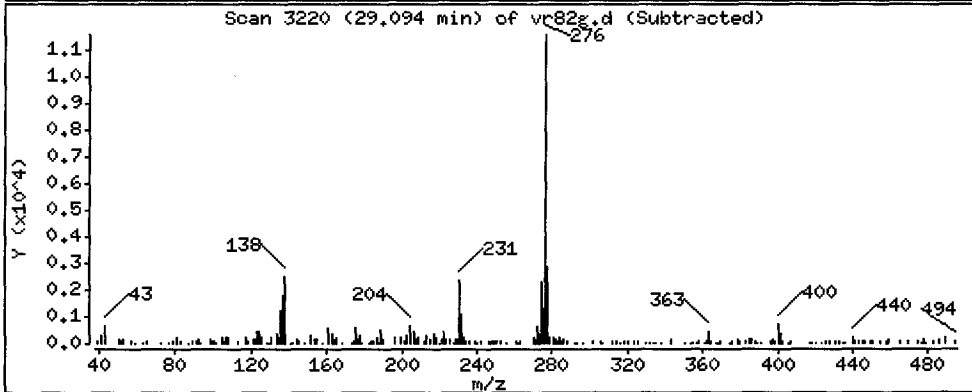
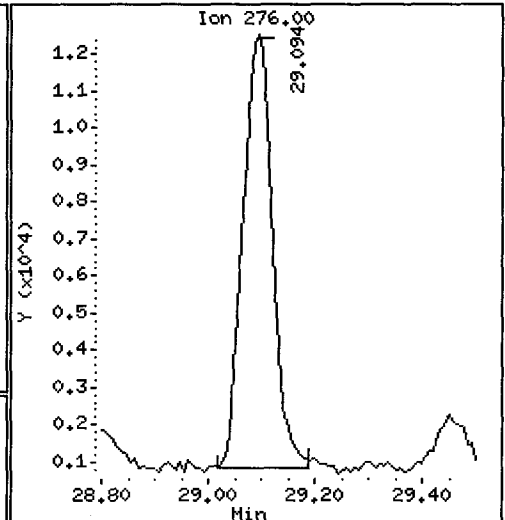
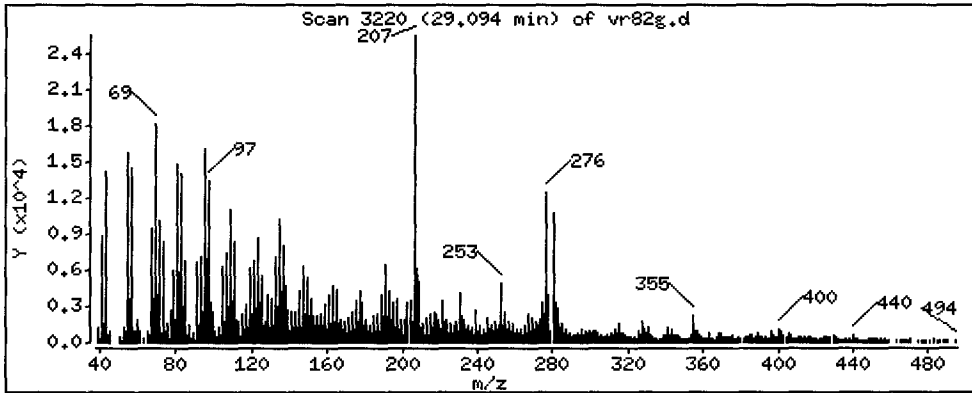
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 40.94 ug/kg



Date : 05-DEC-2012 18:53

Client ID: SG-07-S-C-dup-12110

Instrument: nt10.i

Sample Info: VR82G

Volume Injected (uL): 1.0

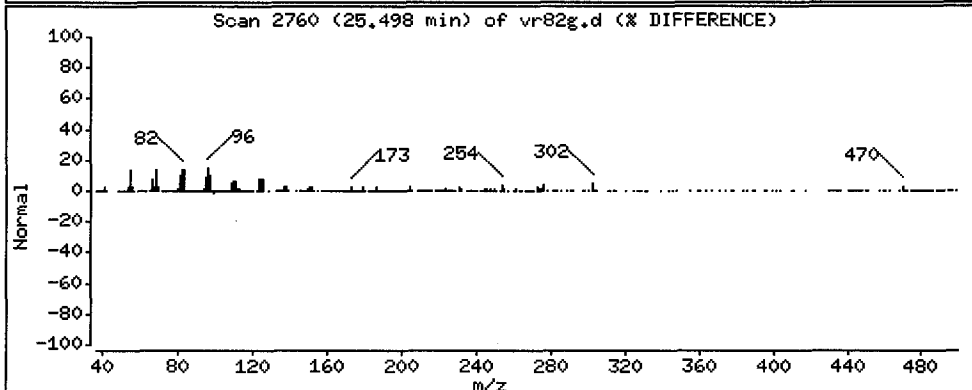
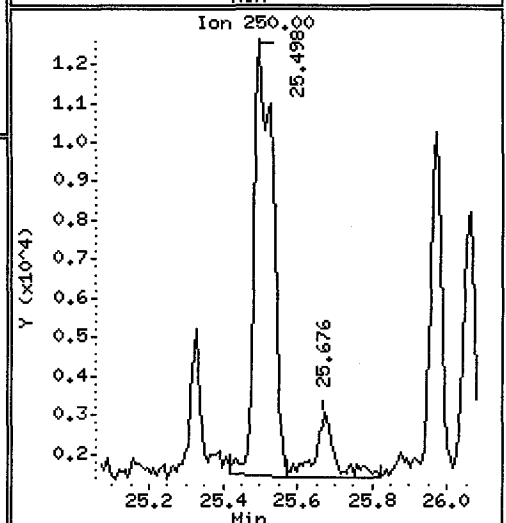
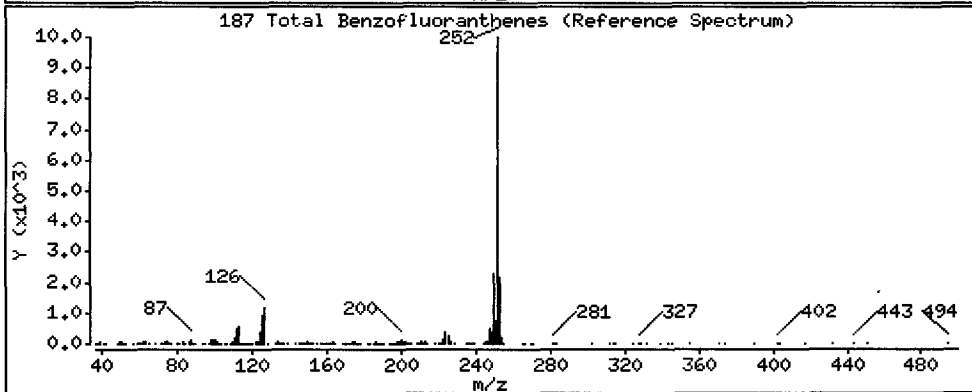
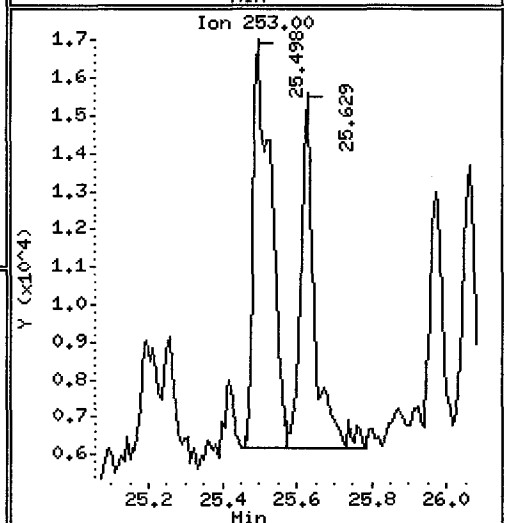
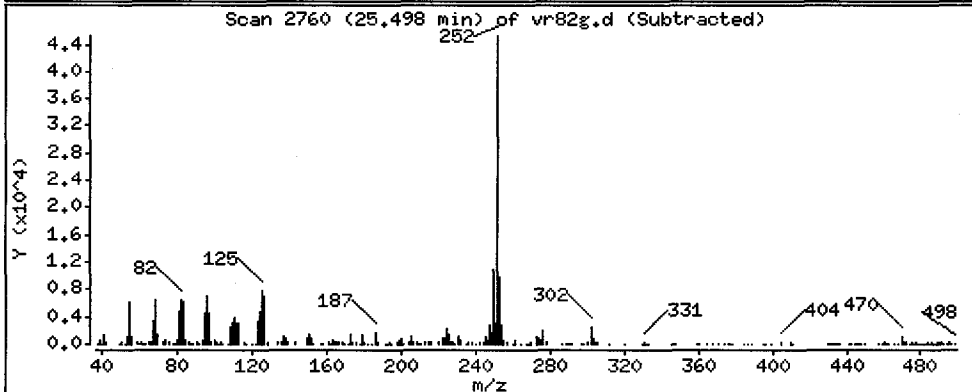
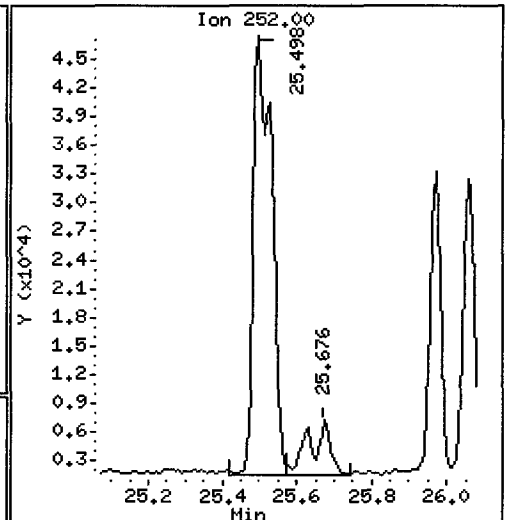
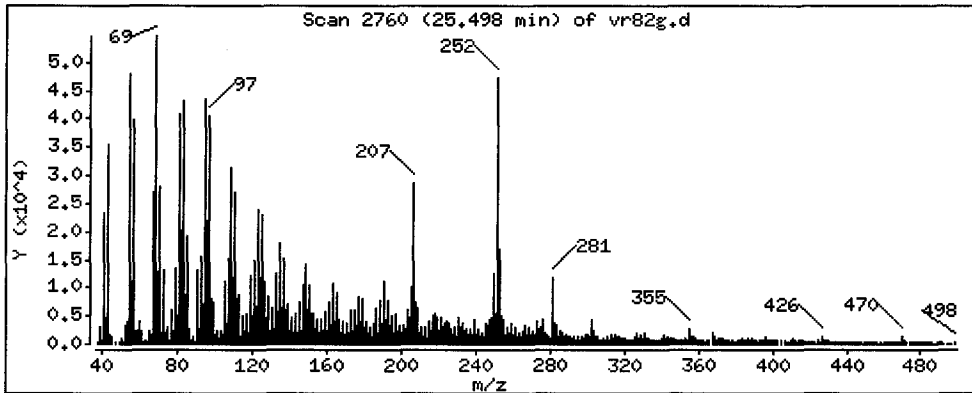
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

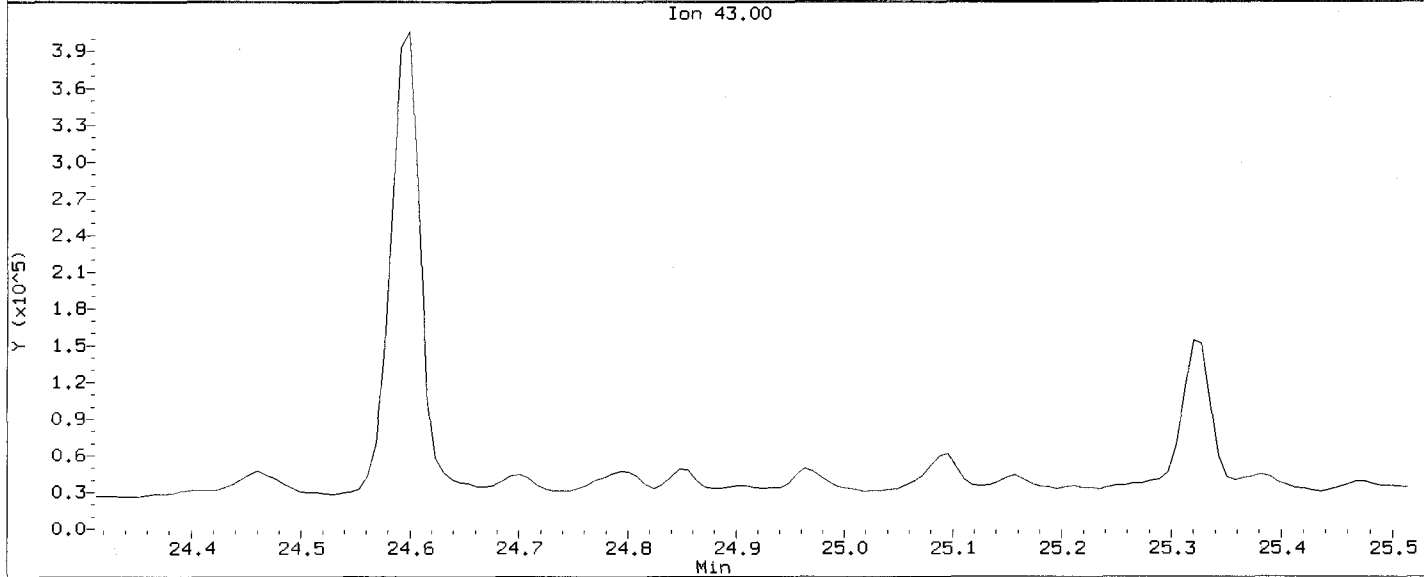
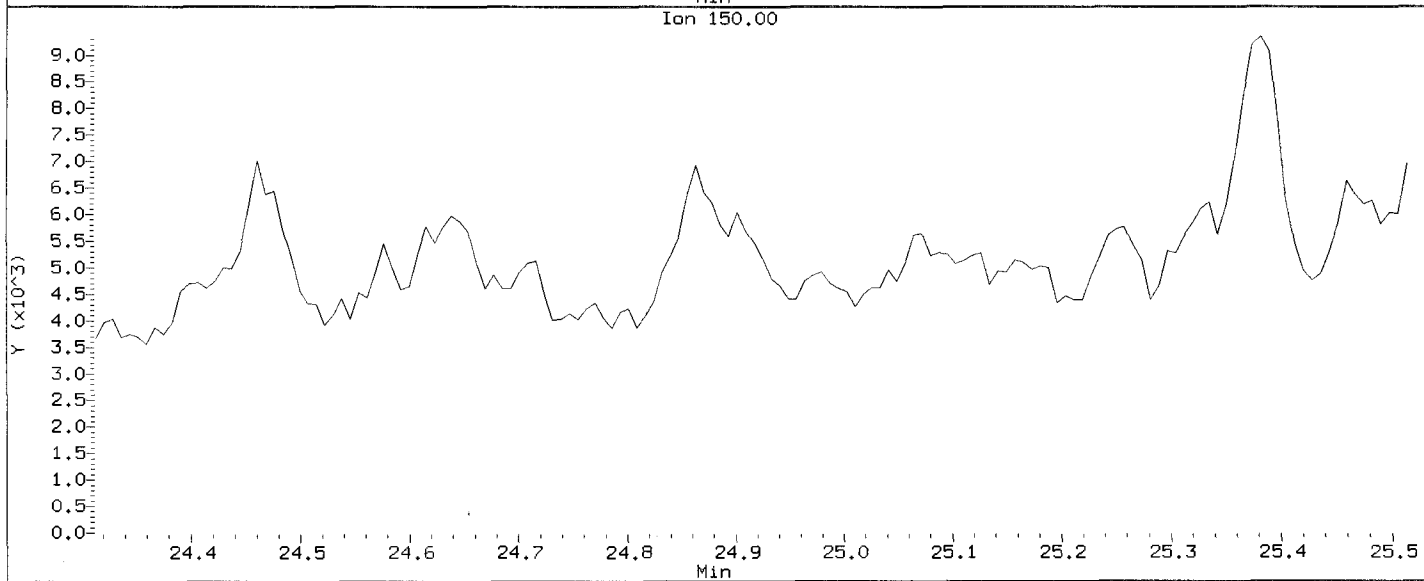
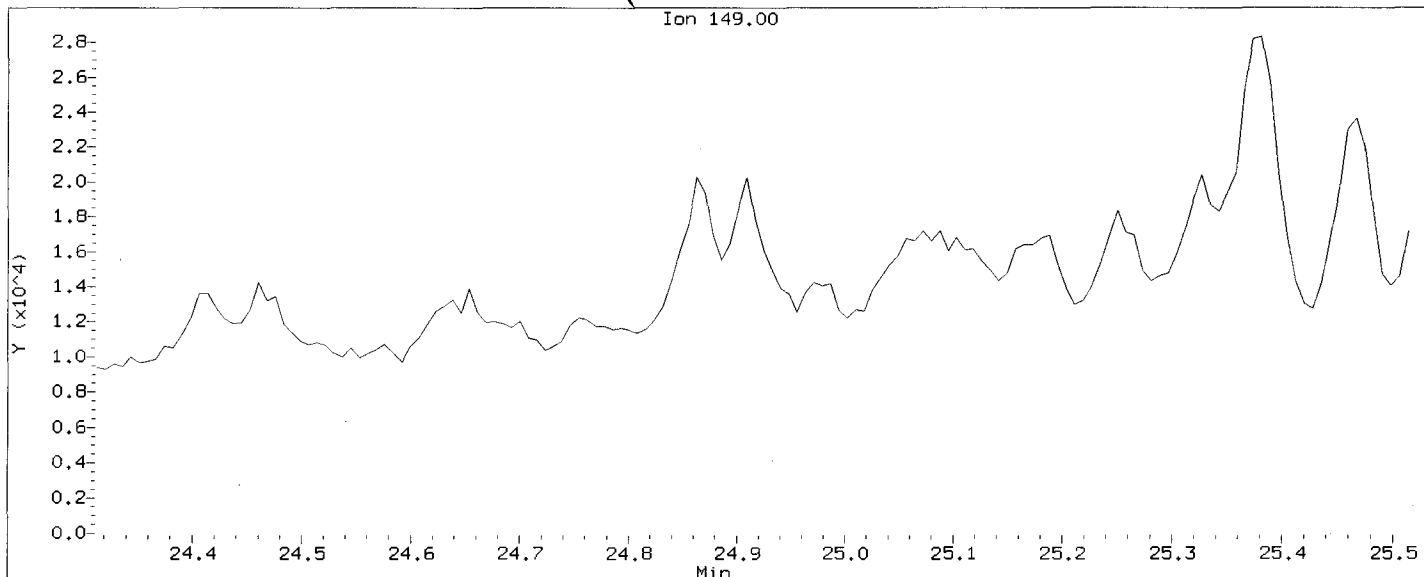
Concentration: 134.7 ug/kg



Data File: /chem1/nt10.1/20121205.b/vr82g.d
Injection Date: 05-DEC-2012 18:53
Instrument: nt10.1
Client Sample ID: SG-07-S-C-dup-12110

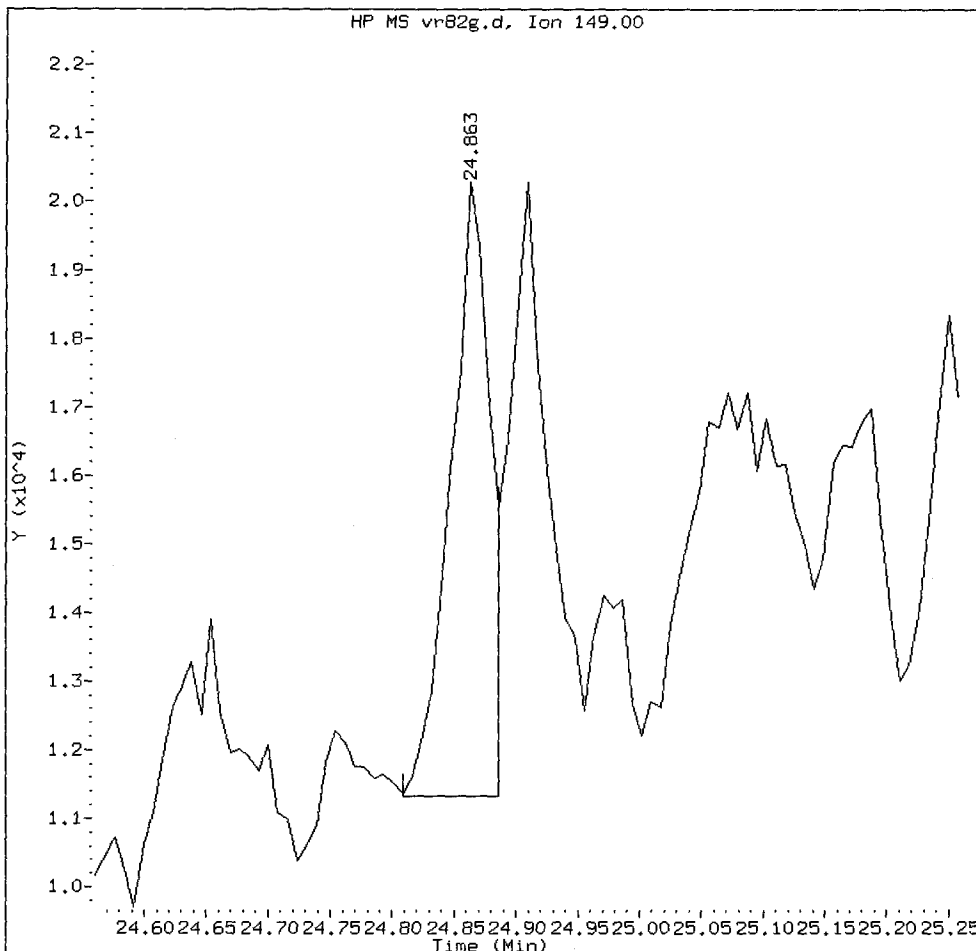
VD
12-6-11

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



VR82G, /chem1/nt10.i/20121205.b/vr82g.d

Di-n-octylphthalate Amount: 0.16 Area: 20207



MANUAL INTEGRATION for Di-n-octylphthalate

- 1. Baseline correction
- 2. Poor chromatography
- ③ Peak not found
- 4. Totals calculation

5. Other _____

Analyst: VD

Date: 12-6-12

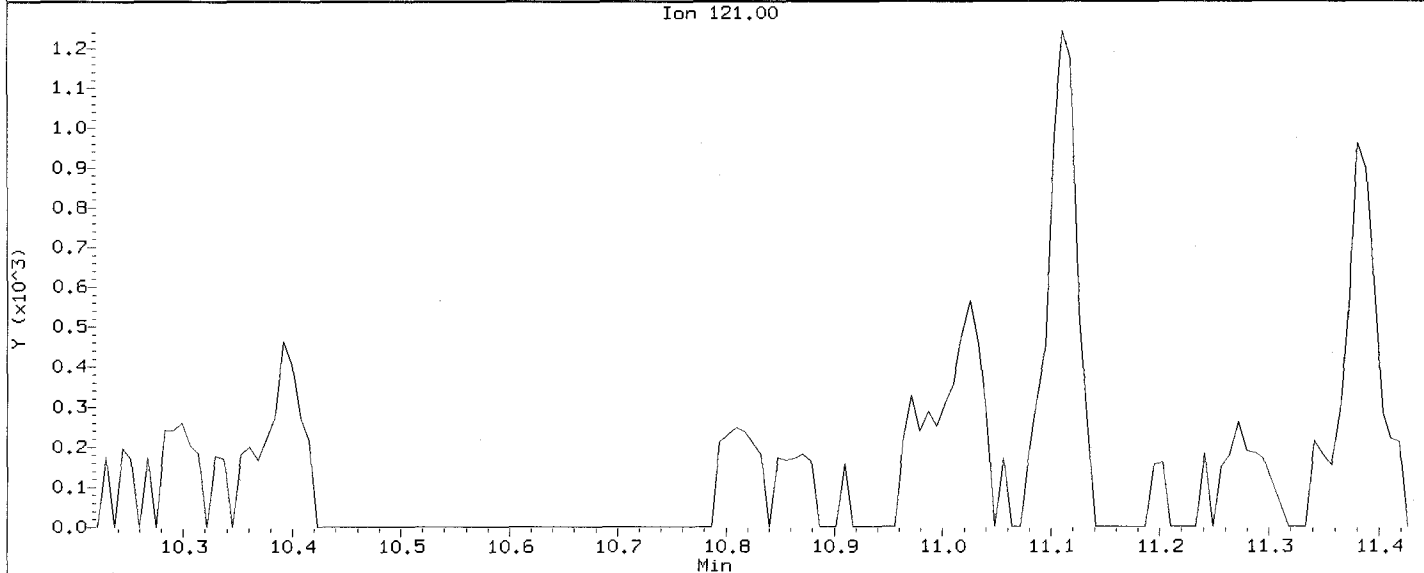
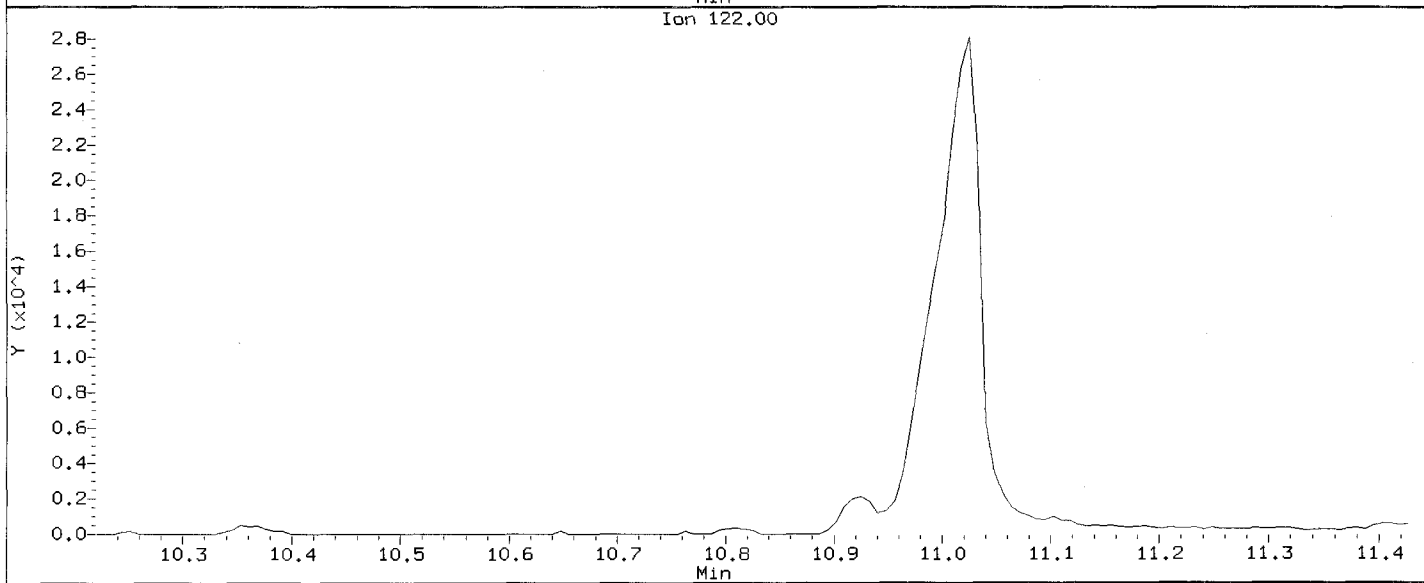
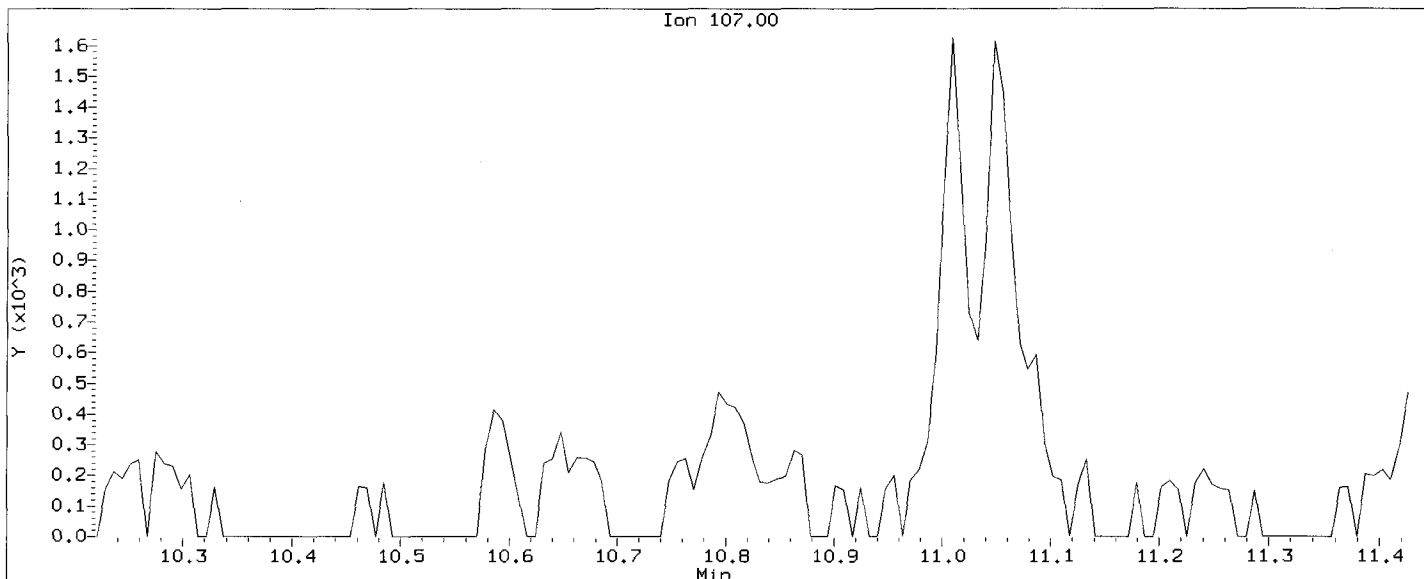
CO-ELUTION SUMMARY FOR FILE - vr82g.d

Lab ID: VR82G, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.1/20121205.b/vr82g.d
Injection Date: 05-DEC-2012 18:53
Instrument: nt10.1
Client Sample ID: SG-07-S-C-dup-12110

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



VR82 : 00633

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82h.d
 Lab Smp Id: VR82H Client Smp ID: SG-08-S-C-121108
 Inj Date : 05-DEC-2012 19:29
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82H
 Misc Info : 12-22486
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	25.10000	Weight of sample extracted (g)
M	58.50000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/mL)	(ug/kg)
\$ 1 2-Fluorophenol		112	6.505	6.474	(0.740)	107718	4.26941	409.9
\$ 2 Phenol-d5		99	8.205	8.205	(0.934)	135438	4.33821	416.5
3 Phenol		94	8.228	8.228	(0.937)	6635	0.20174	19.37
\$ 5 2-Chlorophenol-d4		132	8.422	8.429	(0.959)	123683	4.57876	439.6
7 1,3-Dichlorobenzene		146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4		152	8.785	8.808	(1.000)	78871	4.00000	
9 1,4-Dichlorobenzene		146	Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4		152	9.165	9.189	(1.043)	58634	2.97685	285.8
12 1,2-Dichlorobenzene		146	Compound Not Detected.					
11 Benzyl alcohol		108	9.119	9.134	(1.038)	9736	0.62604	60.10
13 2-Methylphenol		108	Compound Not Detected.					
17 Hexachloroethane		117	Compound Not Detected.					
15 4-Methylphenol		108	9.701	9.709	(1.104)	3846	0.22939	22.02
\$ 18 Nitrobenzene-d5		82	9.957	9.988	(0.870)	78130	2.63384	252.9
22 2,4-Dimethylphenol		107	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
24 Benzoic acid	105	10.994	11.118	(0.961)	56565	3.08980	296.6
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27 Naphthalene-d8	136	11.442	11.472	(1.000)	316573	4.00000	
28 Naphthalene	128	11.480	11.519	(1.003)	11054	0.14352	13.78
30 Hexachlorobutadiene	225	Compound Not Detected.					
32 2-Methylnaphthalene	142	Compound Not Detected.					
\$ 36 2-Fluorobiphenyl	172	13.847	13.894	(0.904)	232562	2.95256	283.4
39 Dimethylphthalate	163	Compound Not Detected.					
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	15.326	15.372	(1.000)	222544	4.00000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
50 Diethylphthalate	149	16.431	16.493	(1.072)	8187	0.10880	10.44
49 Fluorene	166	Compound Not Detected.					
54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
\$ 55 2,4,6-Tribromophenol	330	17.110	17.156	(1.116)	80779	6.16208	591.6
57 Hexachlorobenzene	284	Compound Not Detected.					
58 Pentachlorophenol	266	Compound Not Detected.					
* 59 Phenanthrene-d10	188	18.602	18.656	(1.000)	392074	4.00000	
60 Phenanthrene	178	18.656	18.702	(1.003)	65195	0.67159	64.47
61 Anthracene	178	Compound Not Detected.					
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	21.101	21.139	(1.134)	165742	1.35454	130.0
65 Pyrene	202	21.518	21.565	(0.907)	157447	1.27278	122.2
\$ 66 Terphenyl-d14	244	21.851	21.898	(0.921)	313828	3.79531	364.4
67 Butylbenzylphthalate	149	22.811	22.858	(0.961)	18670	0.37154	35.67
68 Benzo(a)anthracene	228	23.702	23.748	(0.999)	52973	0.44139	42.37
* 69 Chrysene-d12	240	23.733	23.771	(1.000)	422254	4.00000	
71 Chrysene	228	23.771	23.818	(1.002)	80951	0.75926	72.89
72 bis(2-Ethylhexyl)phthalate	149	23.864	23.918	(0.960)	190477	2.47766	237.9
* 134 Di-n-octylphthalate-d4	153	24.848	24.902	(1.000)	557173	4.00000	
73 Di-n-octylphthalate	149	24.855	24.909	(1.000)	15292	0.12107	11.62
76 Benzo(a)pyrene	252	26.055	26.102	(0.996)	58108	0.52027	49.95
* 77 Perylene-d12	264	26.164	26.210	(1.000)	391355	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.427	28.489	(1.086)	47280	0.37352	35.86
79 Dibenzo(a,h)anthracene	278	28.442	28.512	(1.087)	11086	0.11036	10.59
80 Benzo(g,h,i)perylene	276	29.087	29.149	(1.112)	46172	0.42621	40.92
105 1-methylnaphthalene	142	12.988	13.259	(1.135)	5385	0.10225	9.816
187 Total Benzofluoranthenes	252	25.498	25.575	(0.975)	149748	1.30027	124.8
98 Retene	219	22.138	22.215	(0.933)	45063		
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

No. F.I.

UD
12.6.12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82h.d
 Lab Smp Id: VR82H
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22486

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-08-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	78871	-3.31
27 Naphthalene-d8	299399	149700	598798	316573	5.74
42 Acenaphthene-d10	178564	89282	357128	222544	24.63
59 Phenanthrene-d10	305410	152705	610820	392074	28.38
69 Chrysene-d12	323853	161926	647706	422254	30.38
134 Di-n-octylphthala	427845	213922	855690	557173	30.23
77 Perylene-d12	305316	152658	610632	391355	28.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.26
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.60	-0.29
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.85	-0.22
77 Perylene-d12	26.21	25.71	26.71	26.16	-0.18

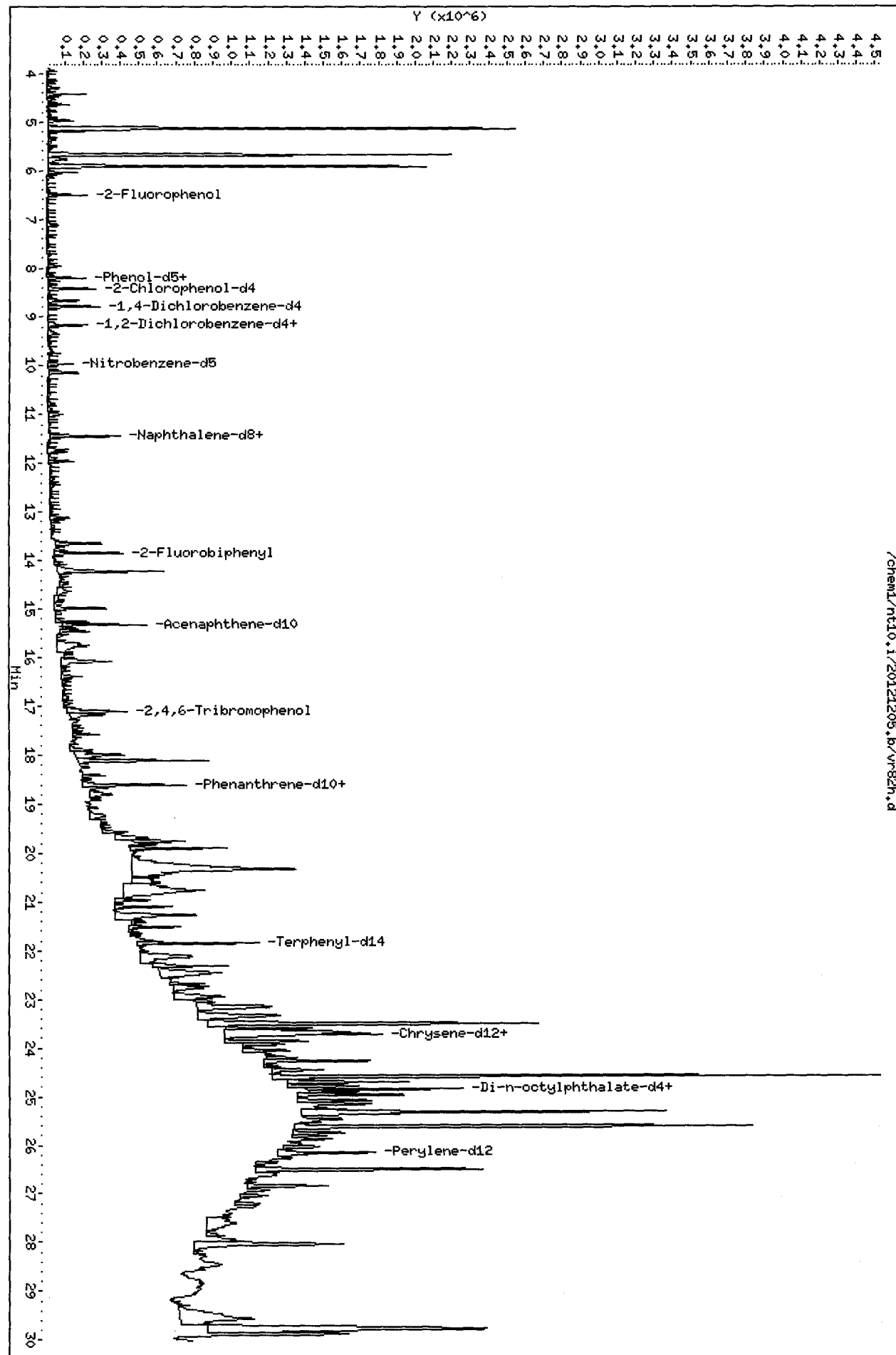
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.	Client SDG: VR82
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: VR82H	Client Smp ID: SG-08-S-C-121108
Level: LOW	Operator: VTS/YZ
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk	Quant Type: ISTD
Sublist File: SHORTPSDDA.sub	
Method File: /chem1/nt10.i/20121205.b/ABN.m	
Misc Info: 12-22486	

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	720.0	409.9	56.93	30-160
\$ 2 Phenol-d5	720.0	416.5	57.84	30-160
\$ 5 2-Chlorophenol-d4	720.0	439.6	61.05	30-160
\$ 10 1,2-Dichlorobenzen	480.0	285.8	59.54	30-160
\$ 18 Nitrobenzene-d5	480.0	252.9	52.68	30-160
\$ 36 2-Fluorobiphenyl	480.0	283.4	59.05	30-160
\$ 55 2,4,6-Tribromophen	720.0	591.6	82.16	30-160
\$ 66 Terphenyl-d14	480.0	364.4	75.91	30-160



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

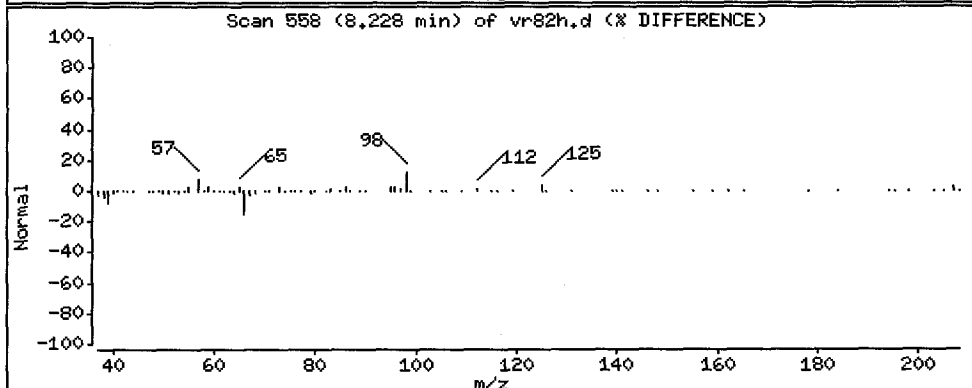
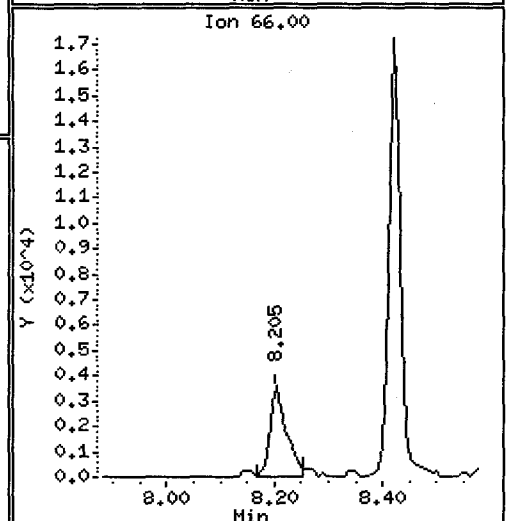
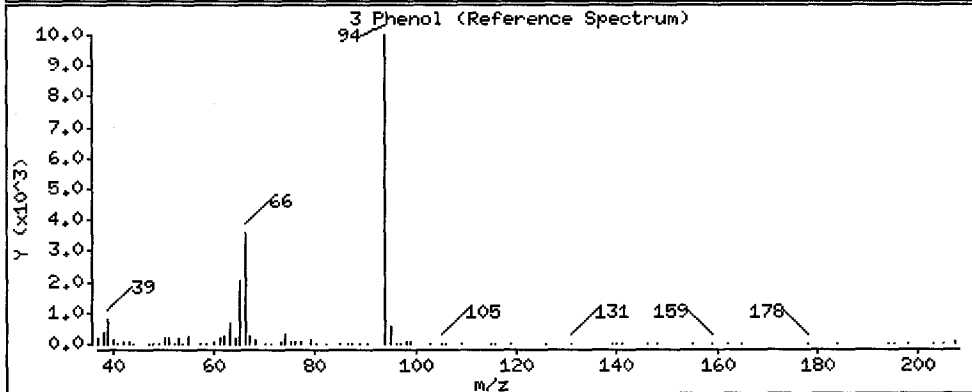
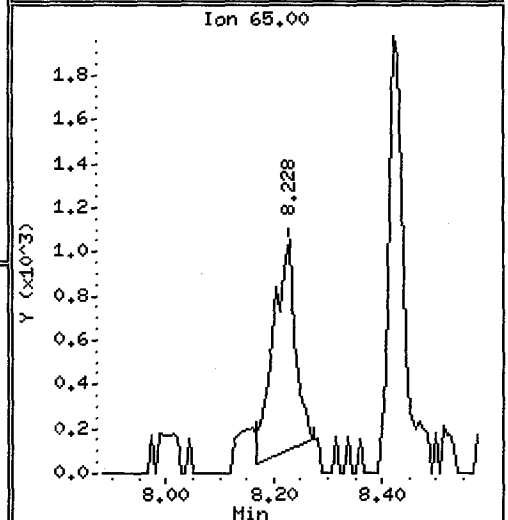
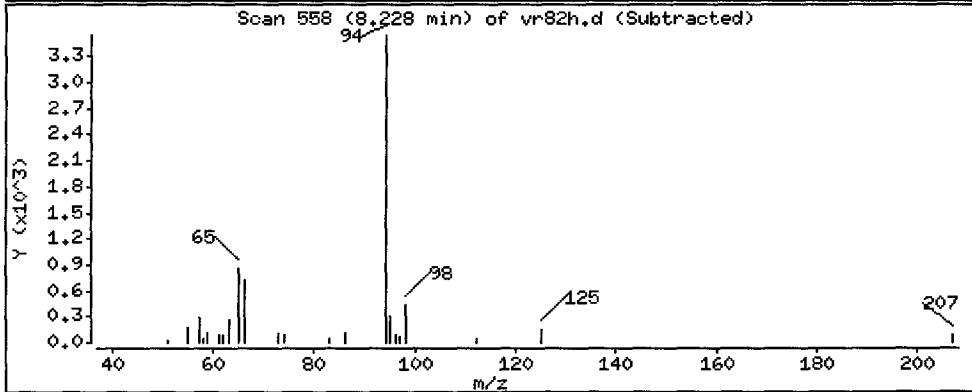
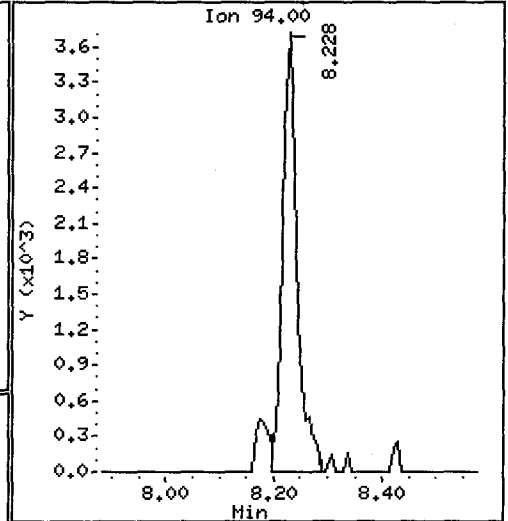
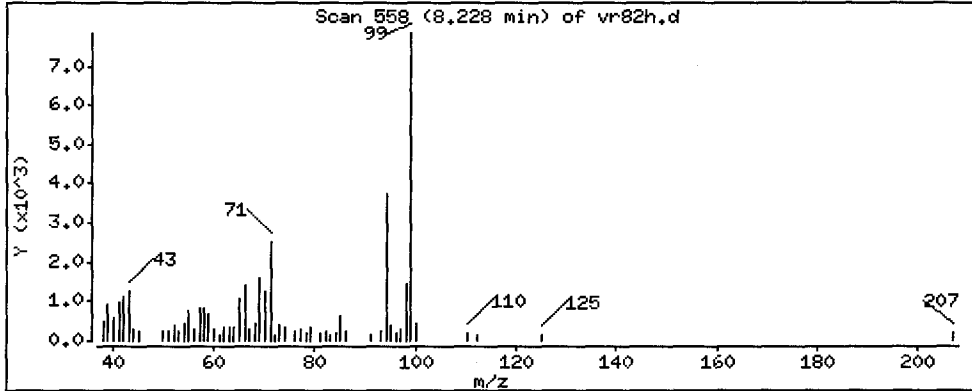
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 19.37 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

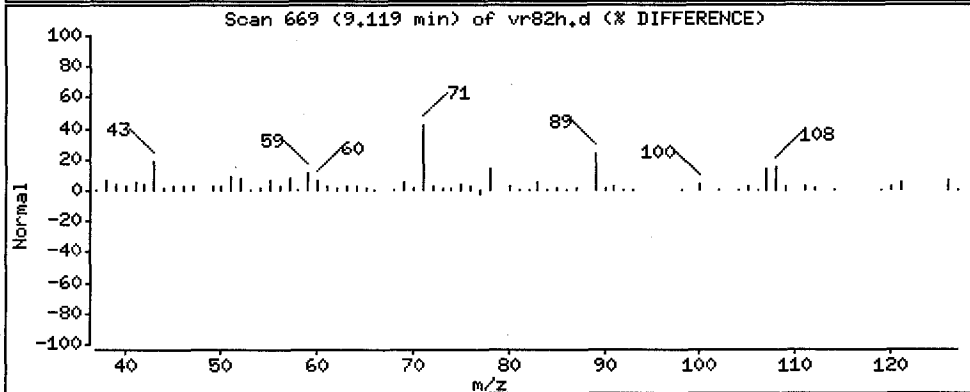
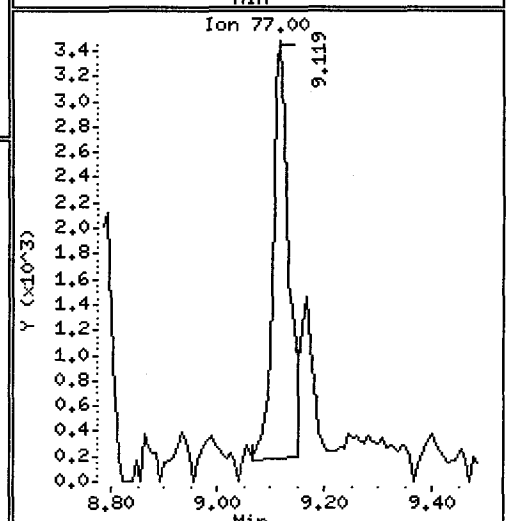
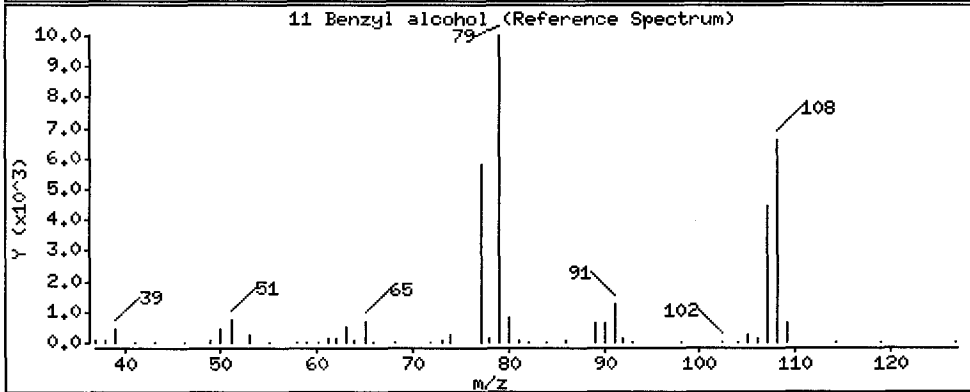
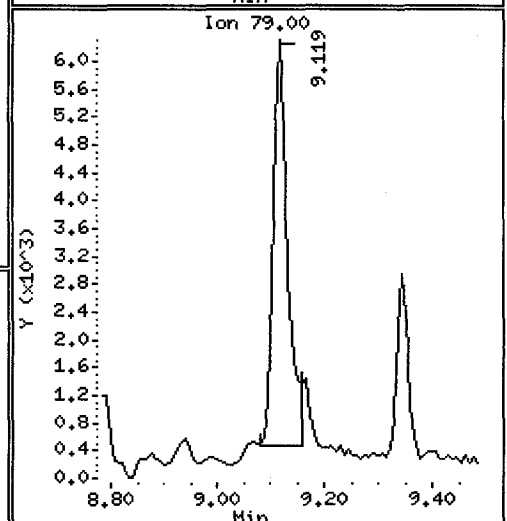
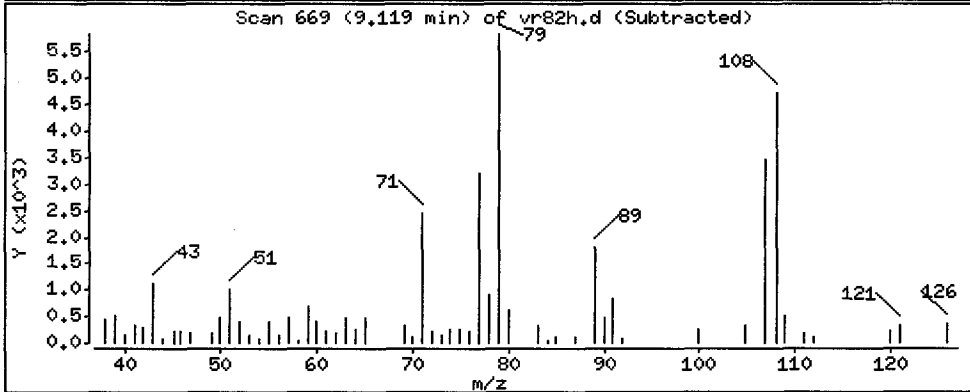
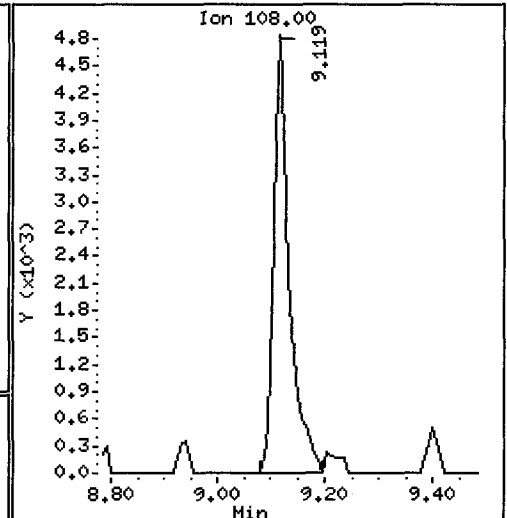
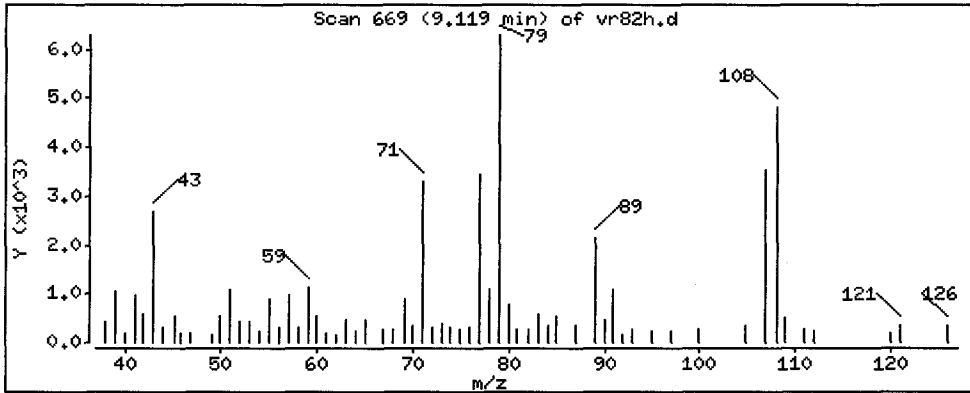
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 60.10 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

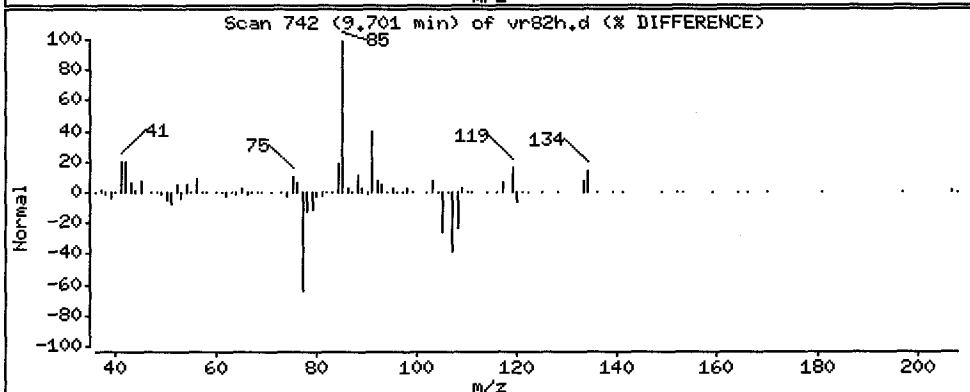
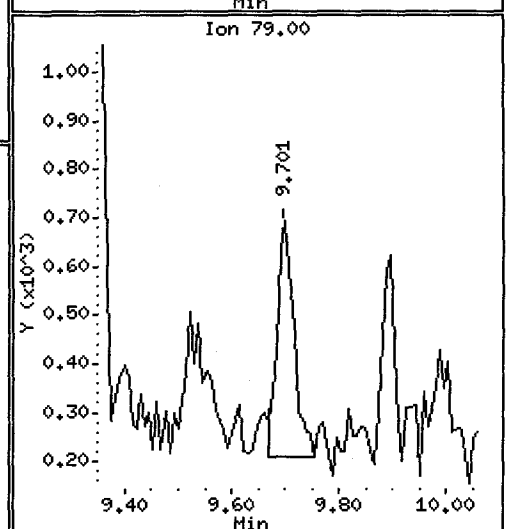
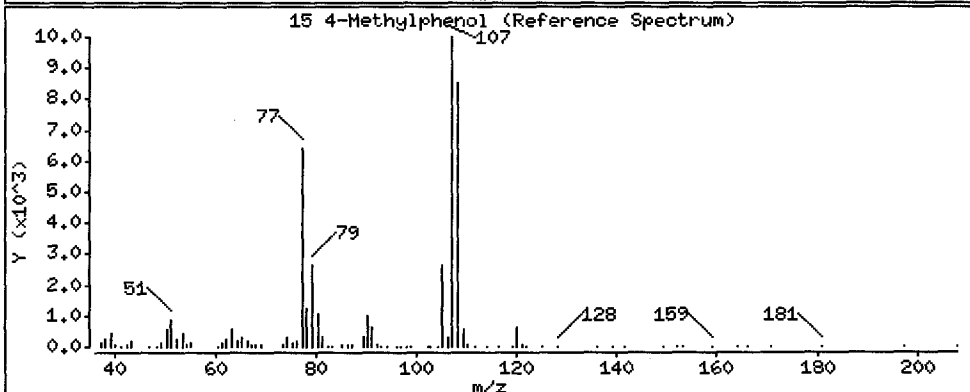
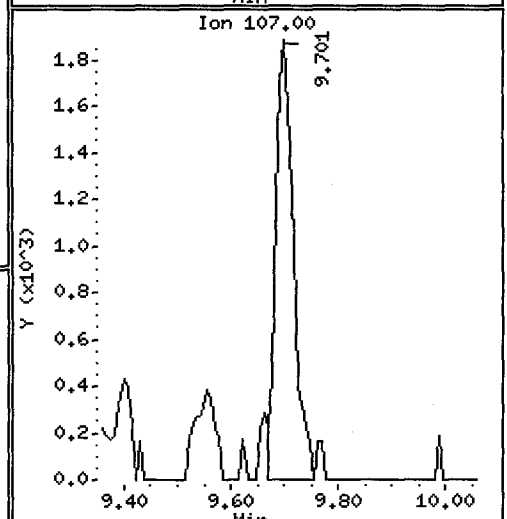
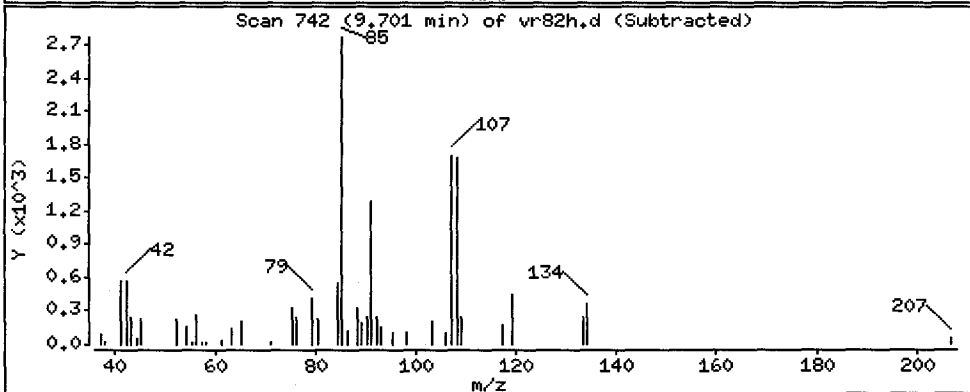
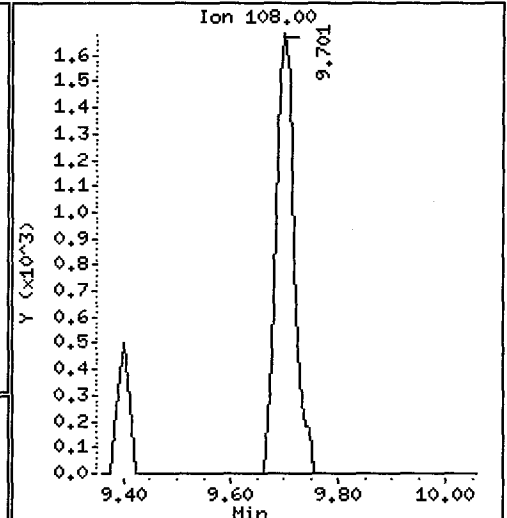
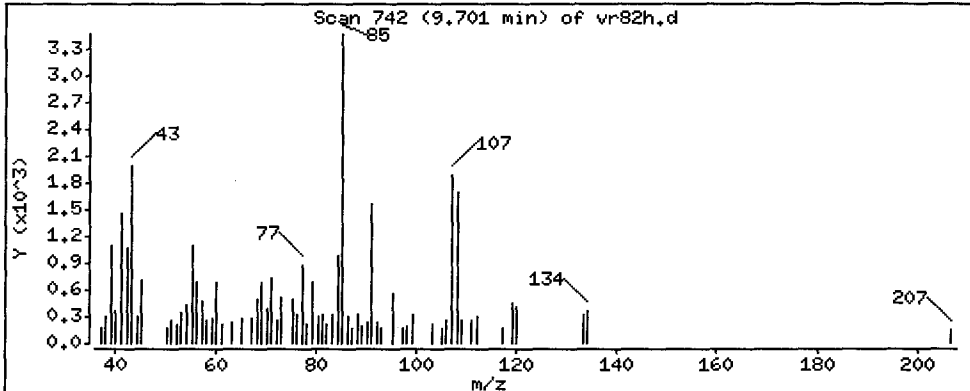
Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 22.02 ug/kg

YZ



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

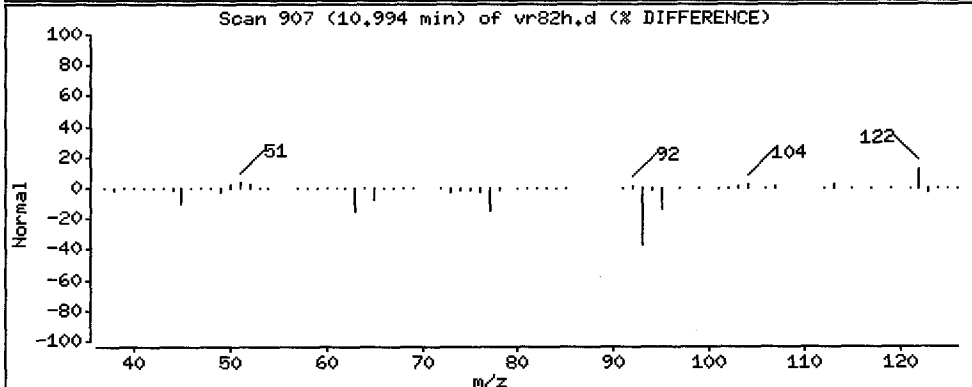
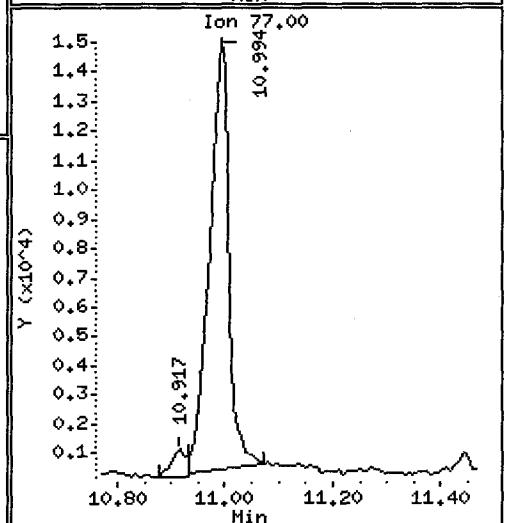
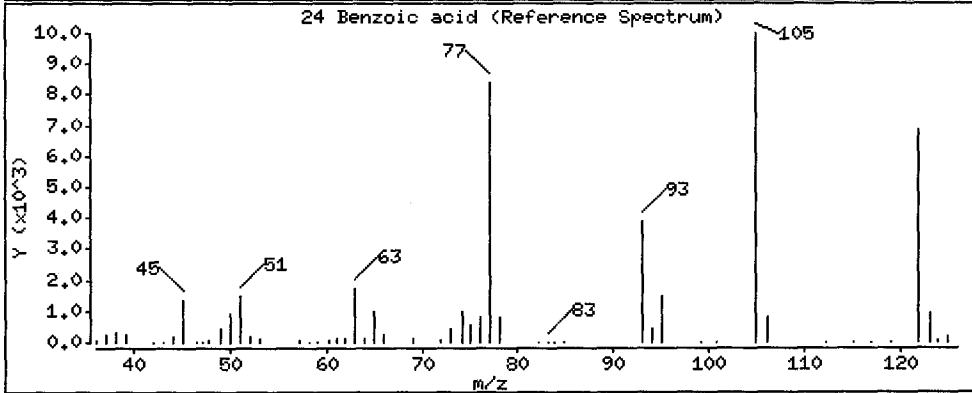
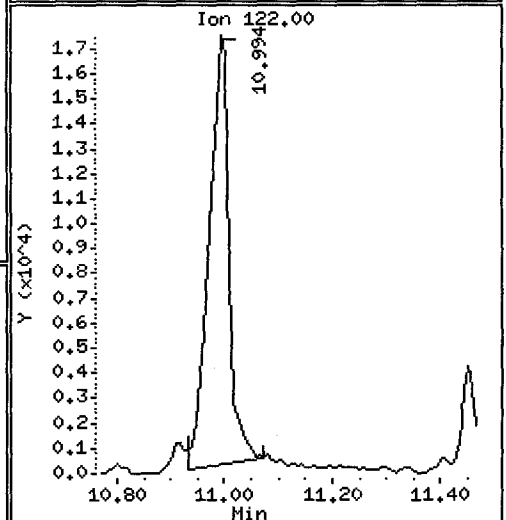
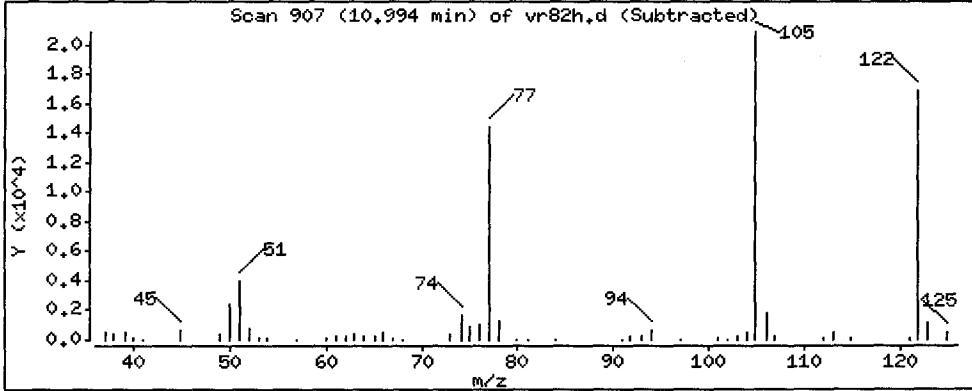
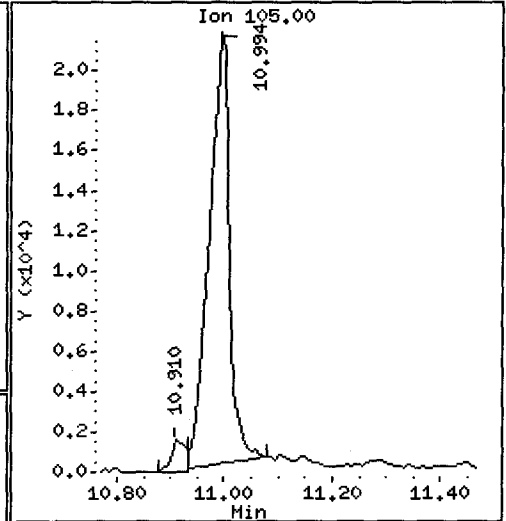
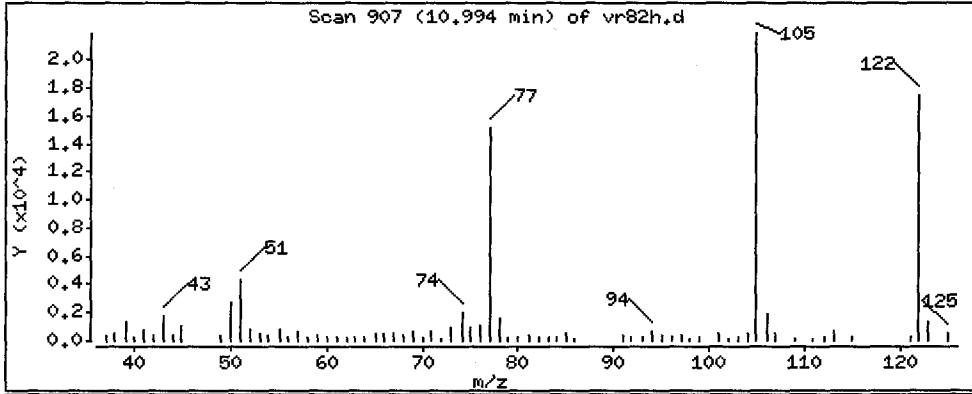
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 296.6 ug/kg

OK



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10,i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

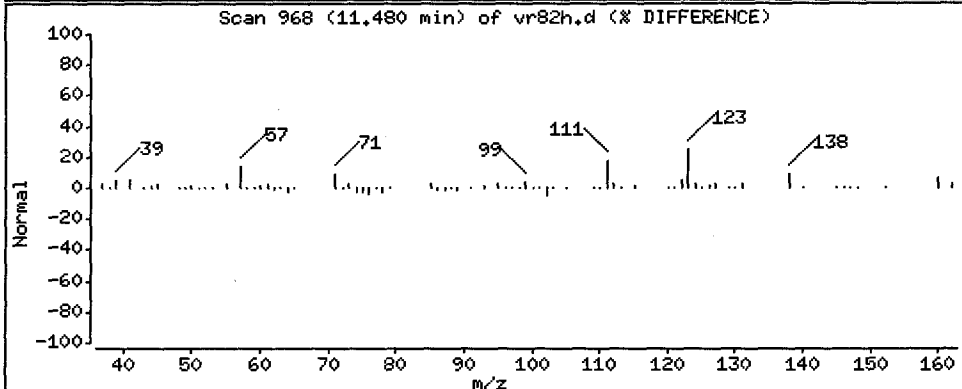
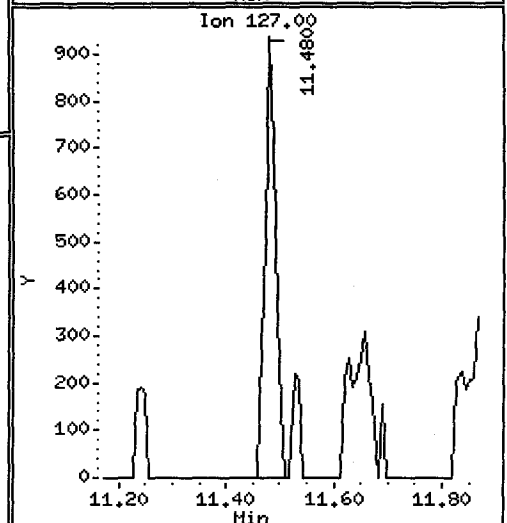
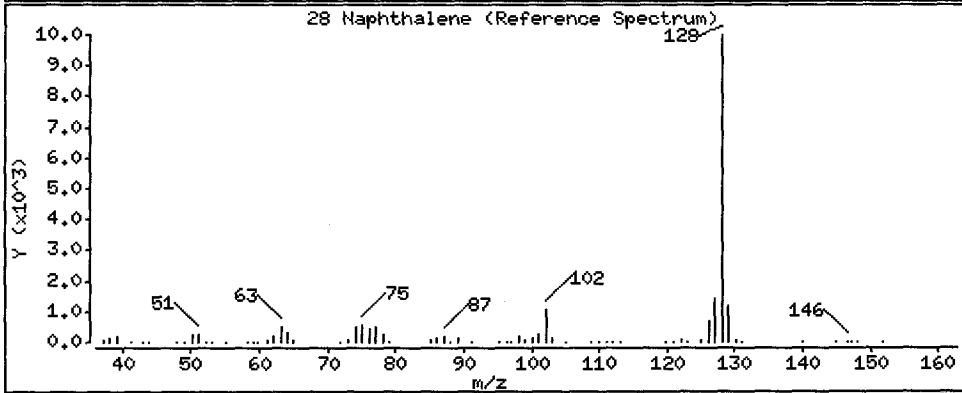
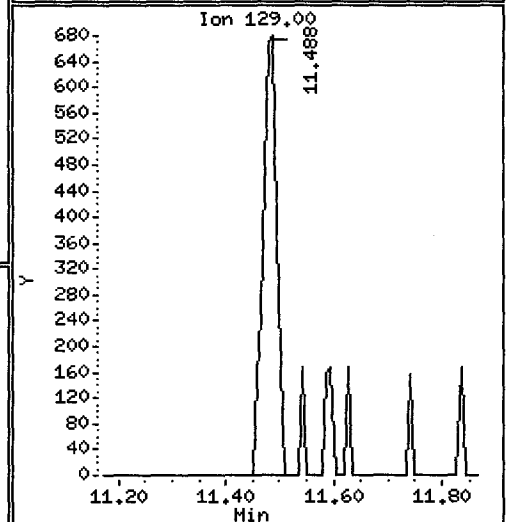
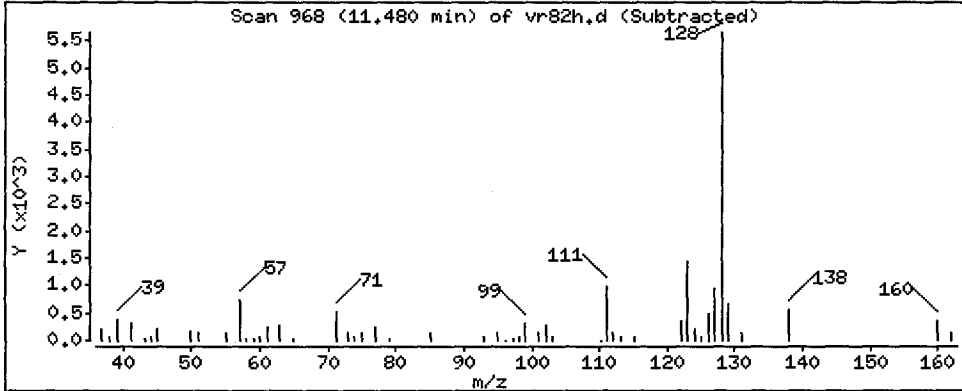
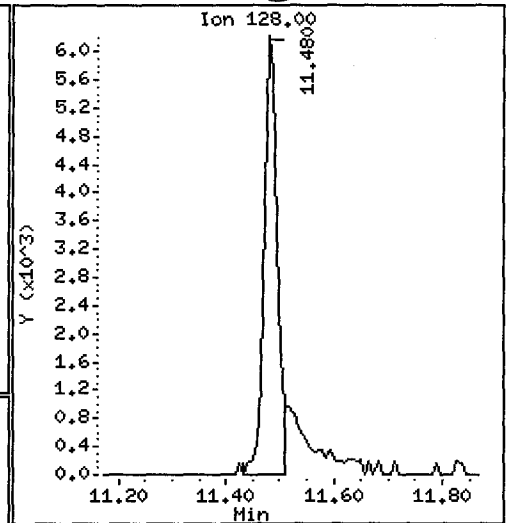
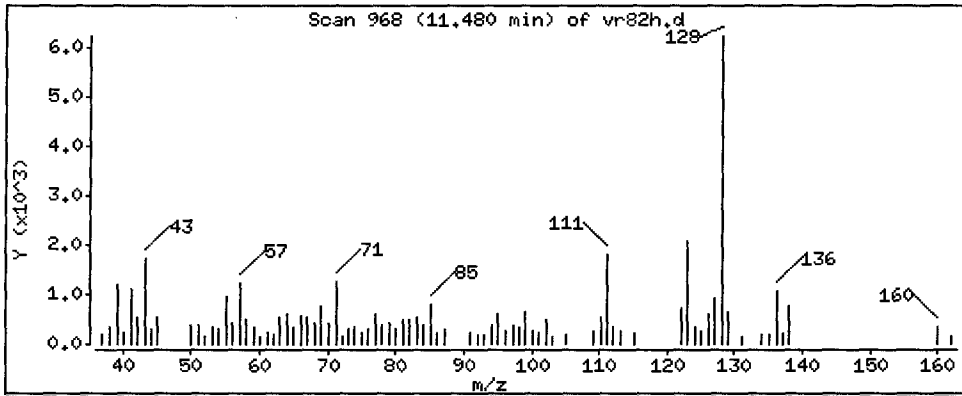
Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 13.78 ug/kg

DLPC



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

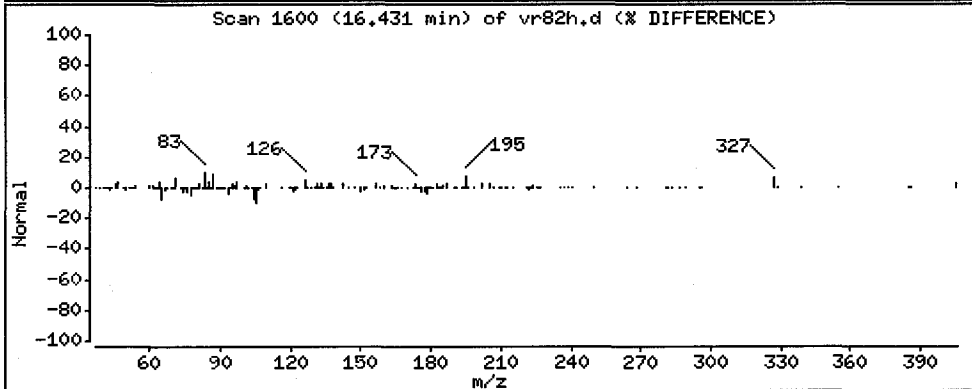
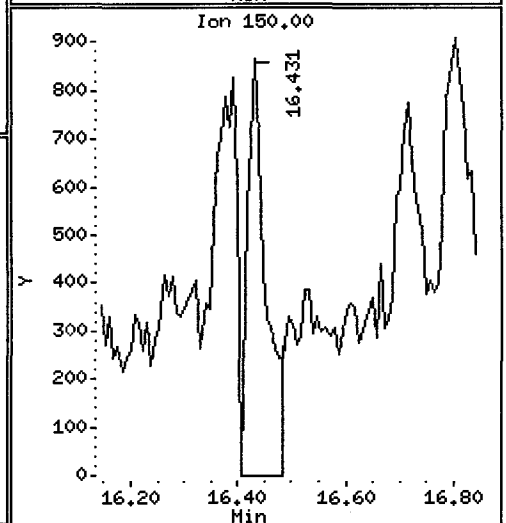
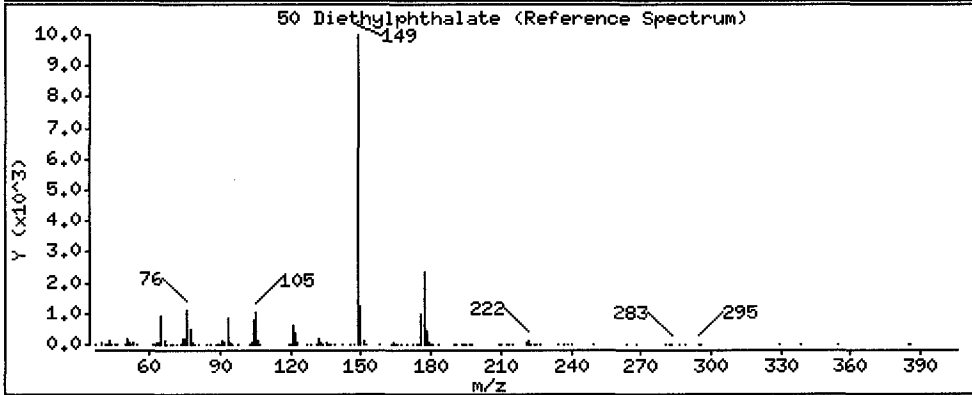
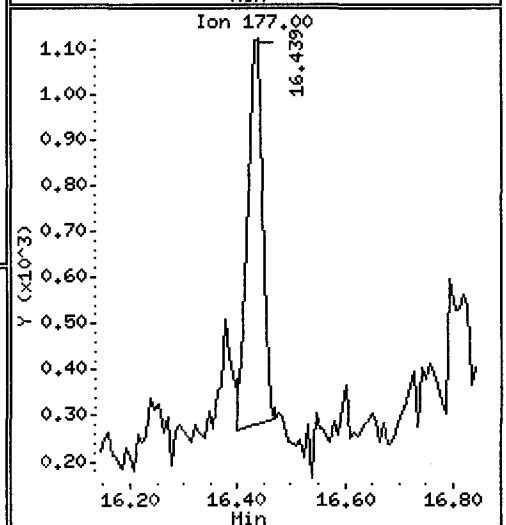
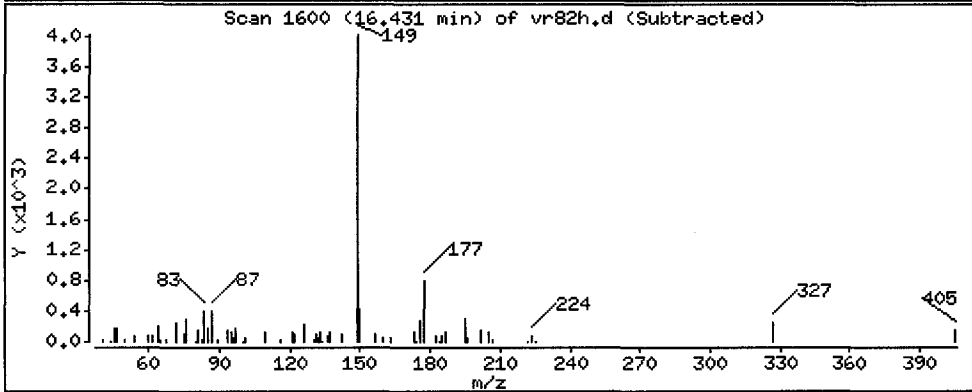
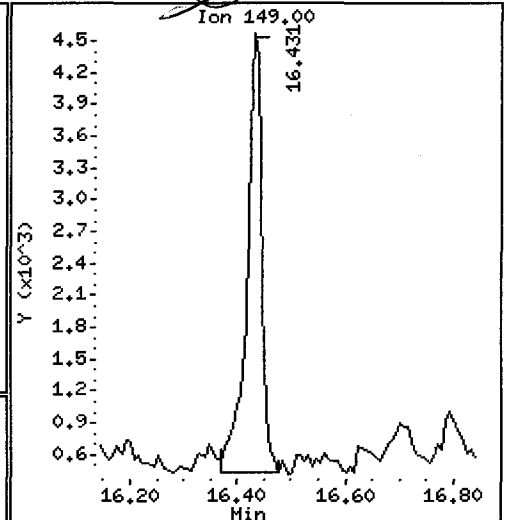
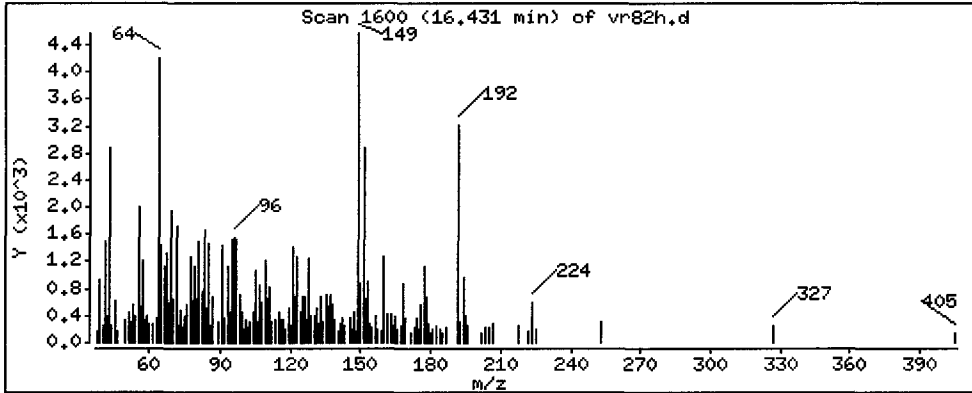
Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 10.44 ug/kg

Handwritten signature and date:
CML
12/11/12



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

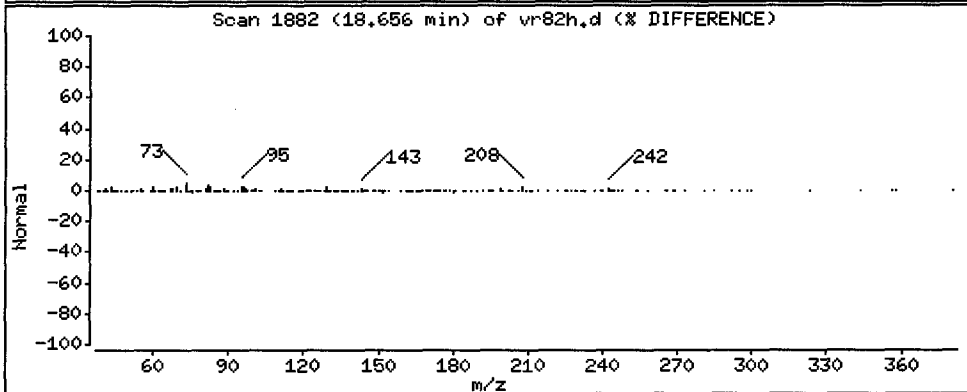
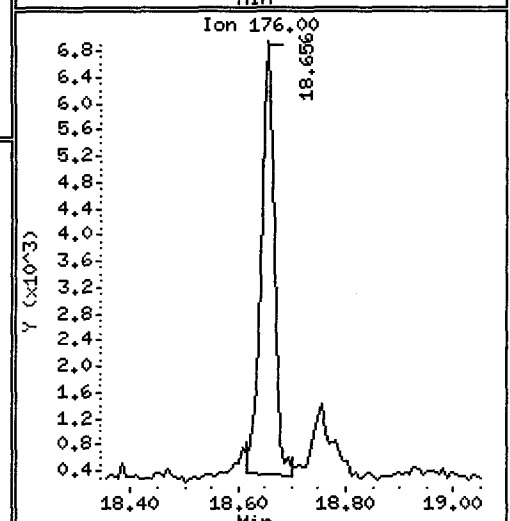
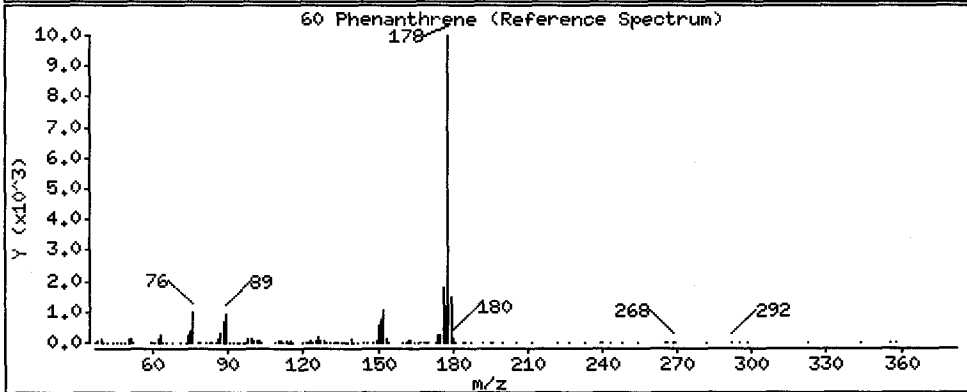
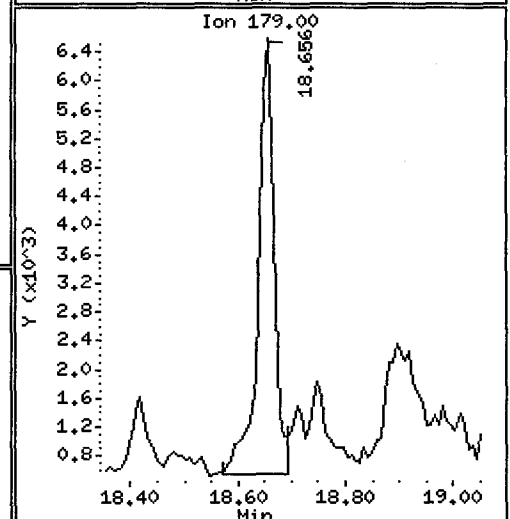
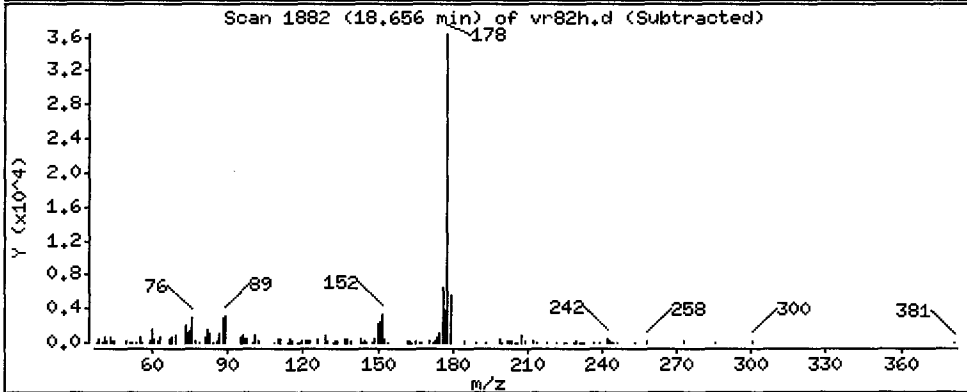
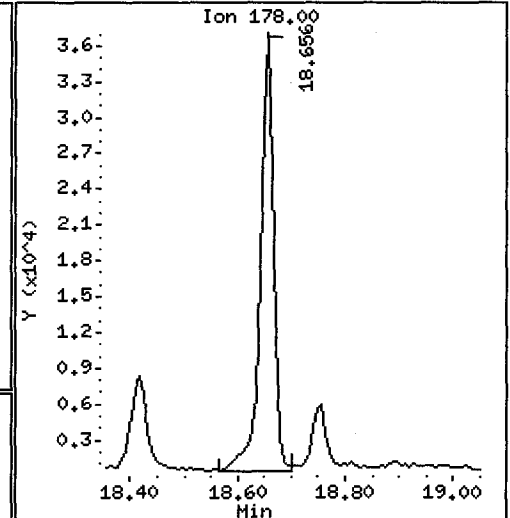
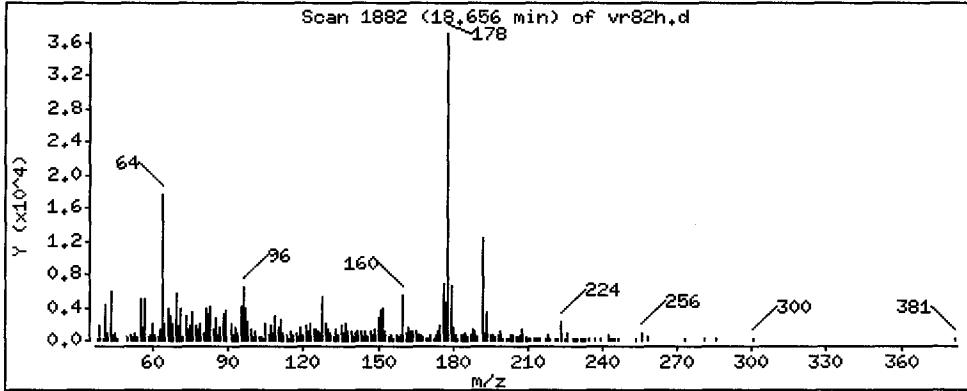
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 64.47 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SC-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

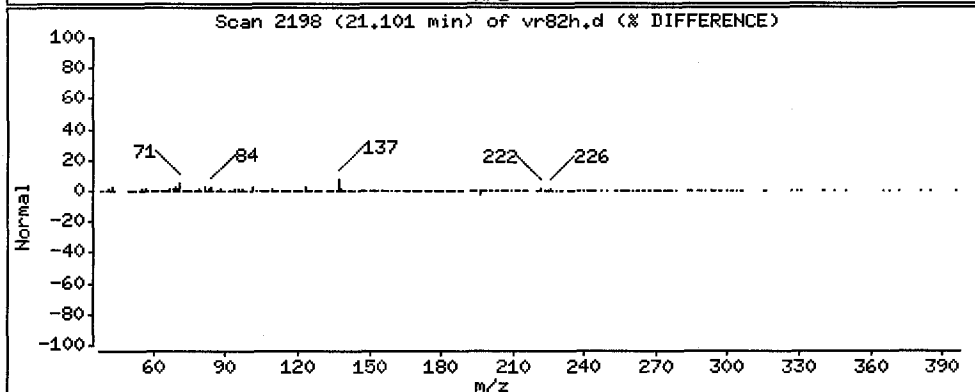
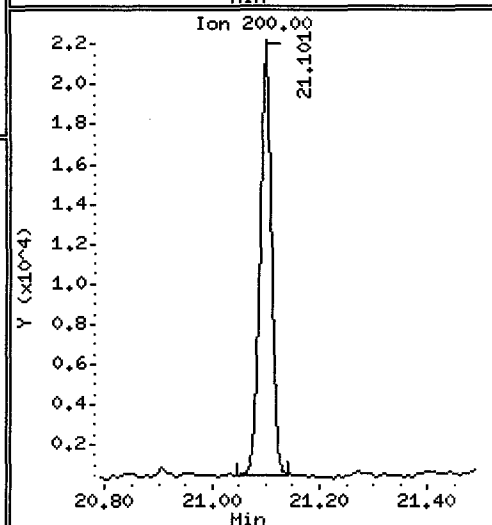
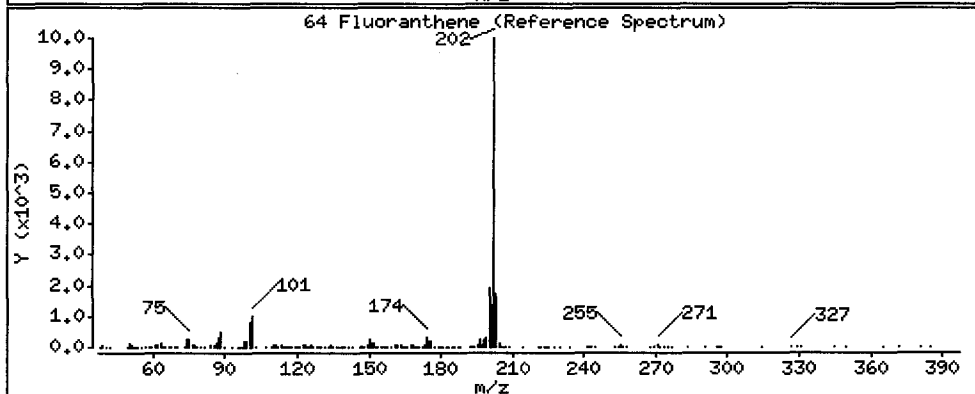
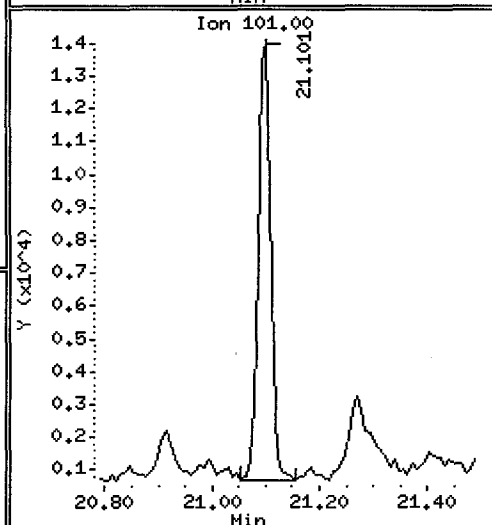
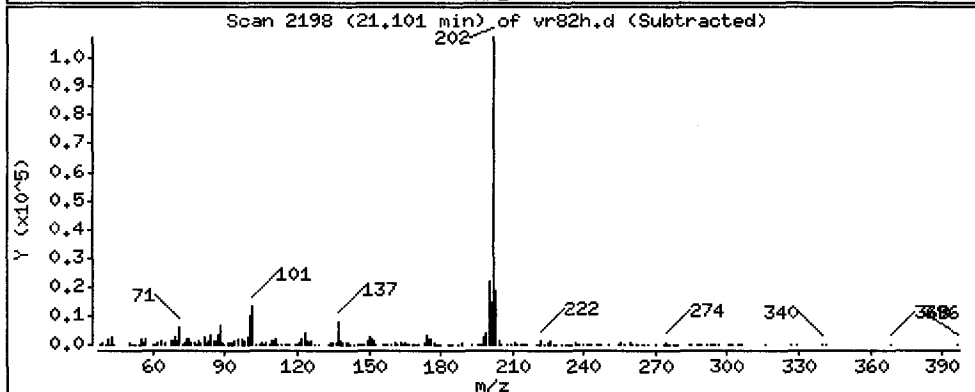
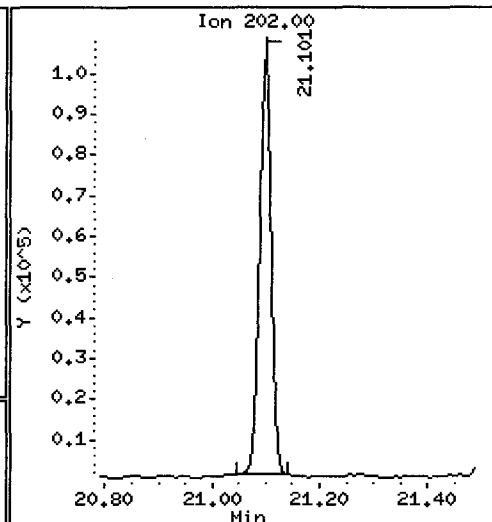
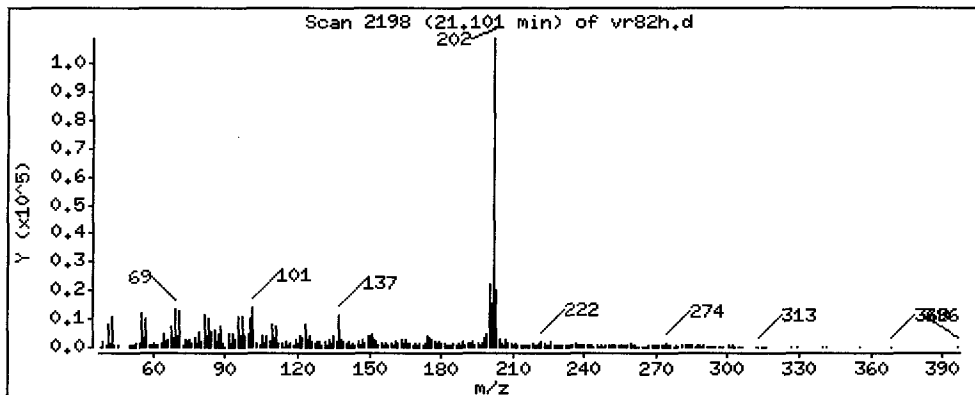
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 130.0 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

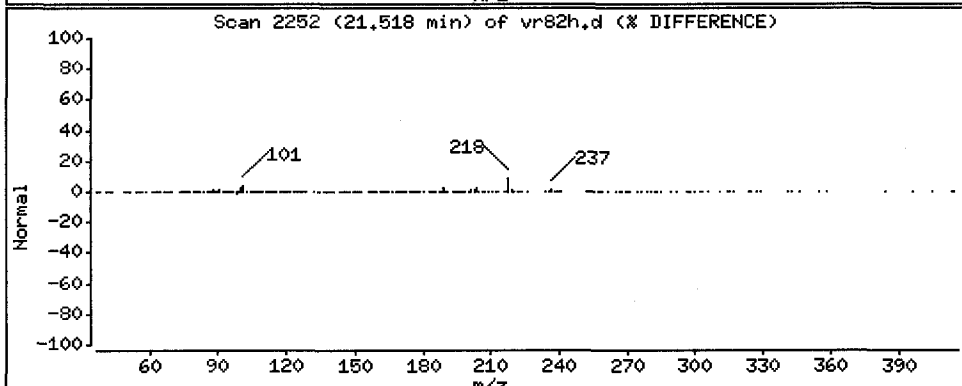
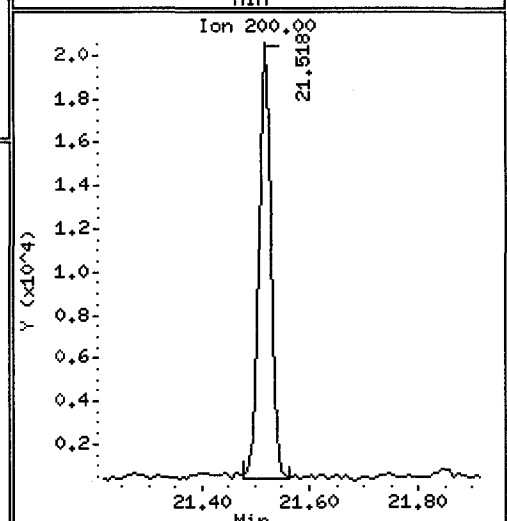
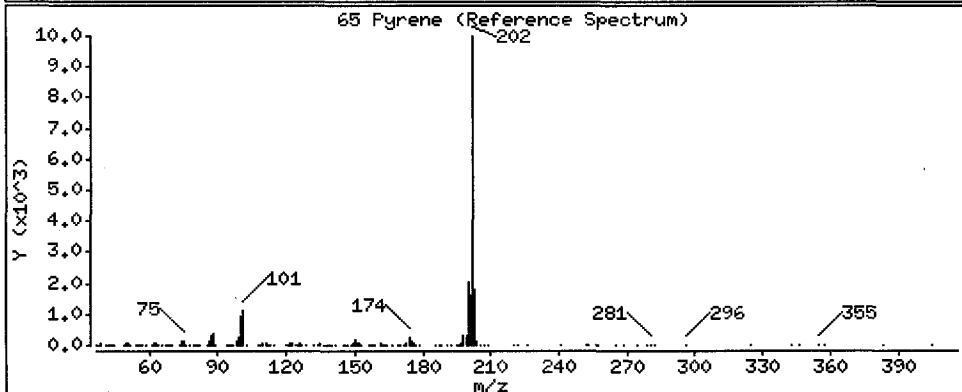
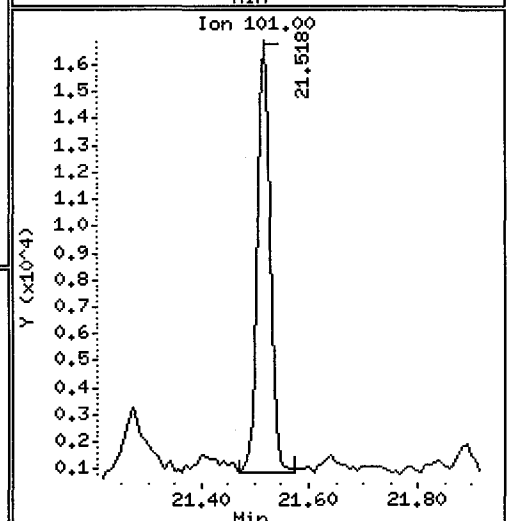
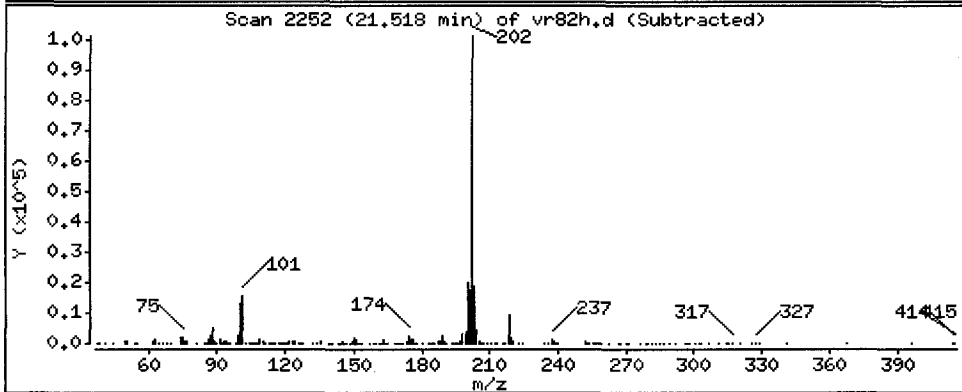
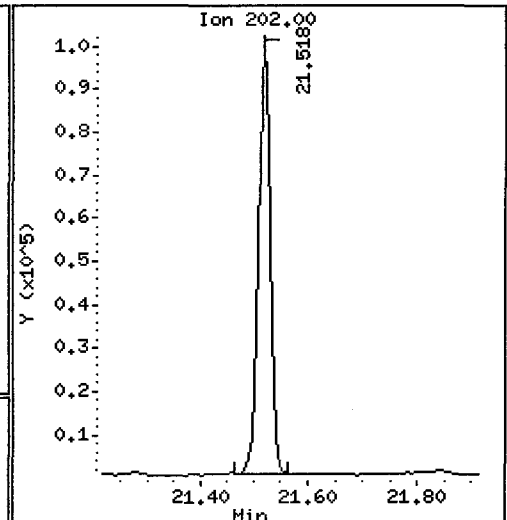
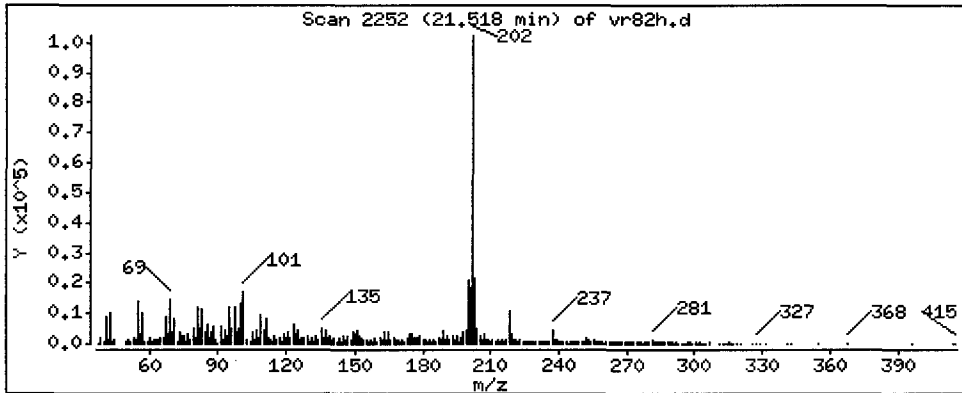
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 122.2 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

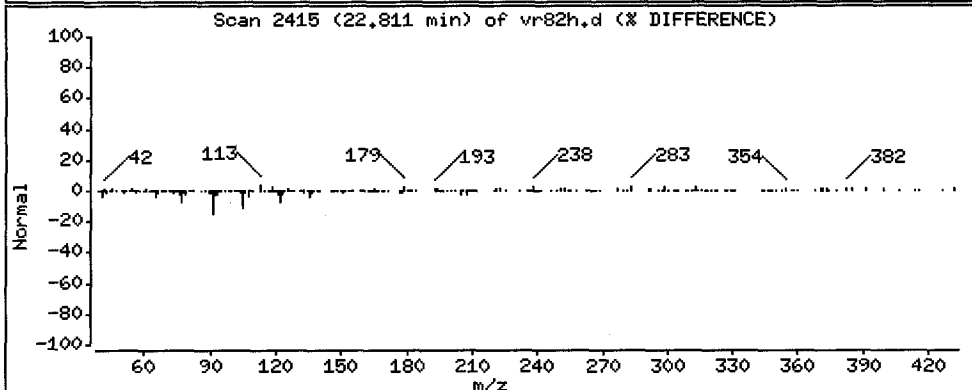
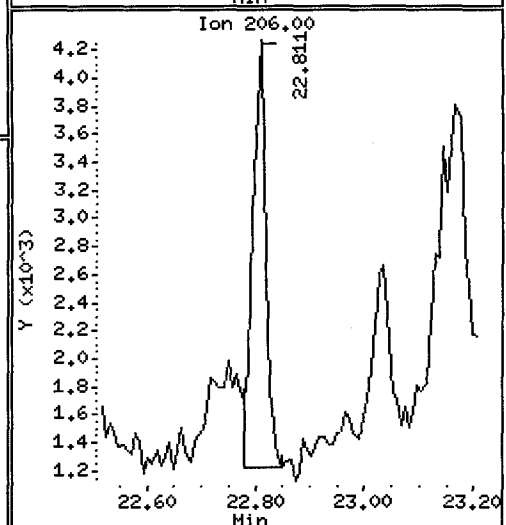
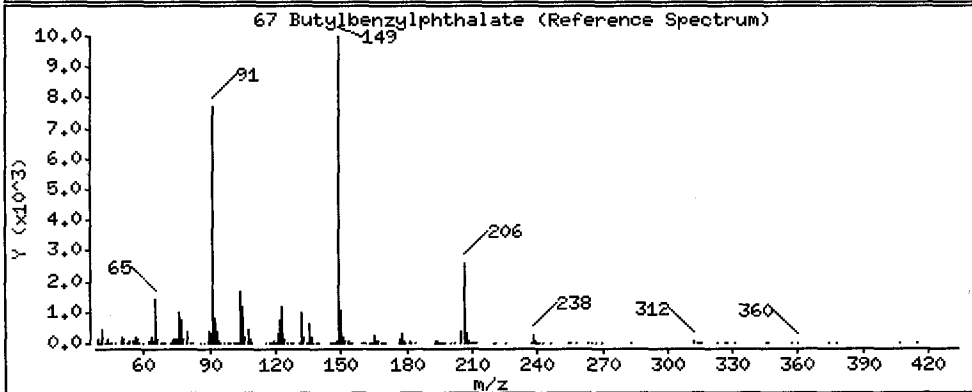
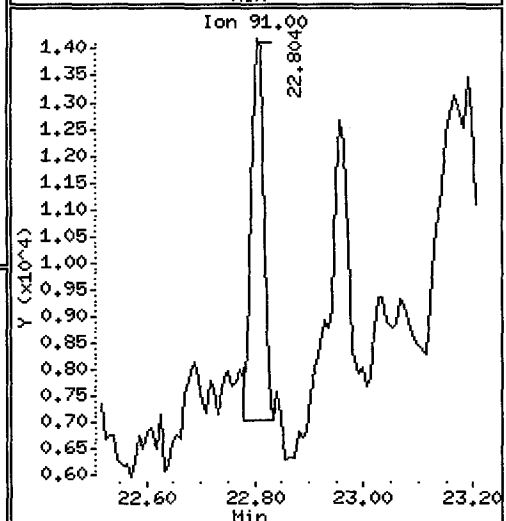
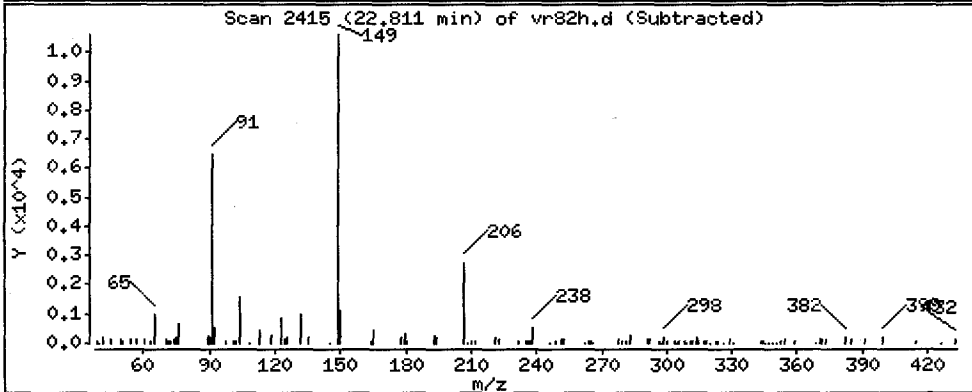
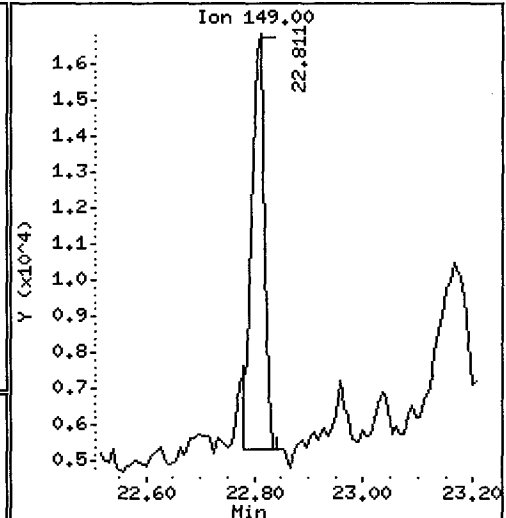
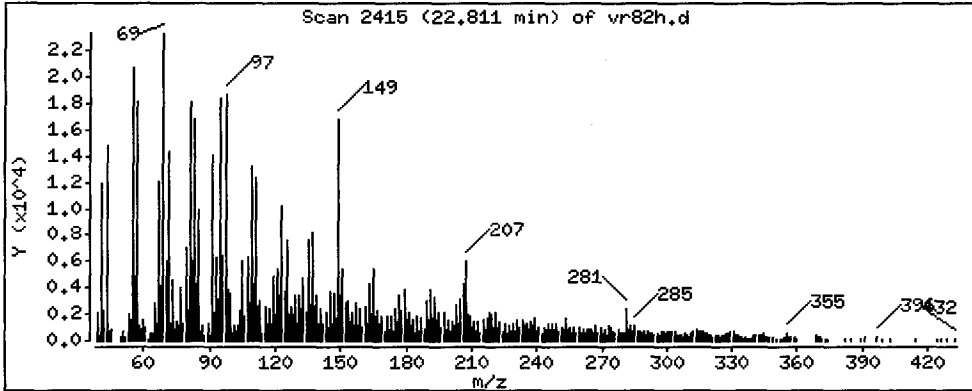
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 35.67 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

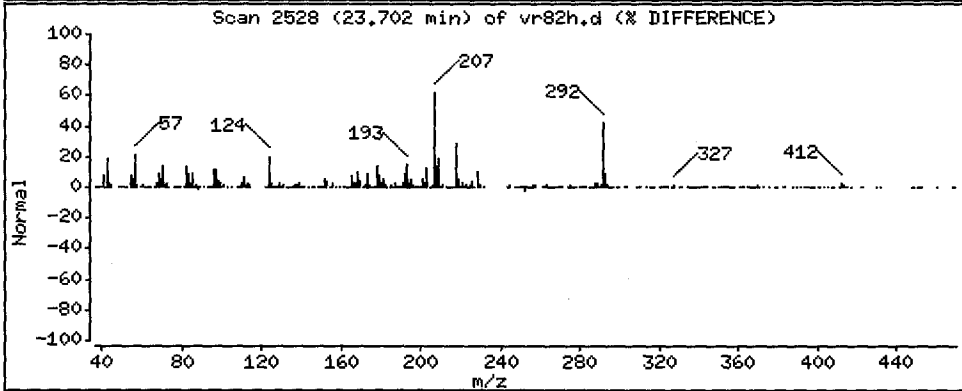
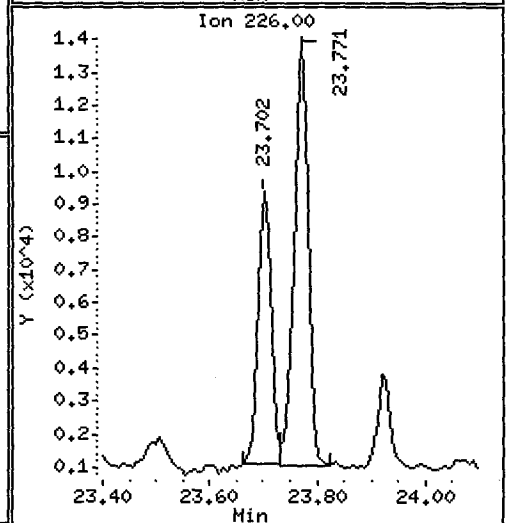
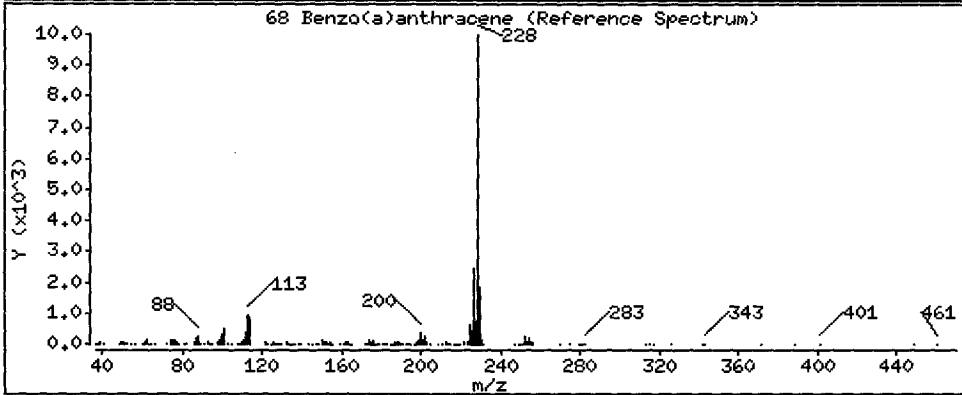
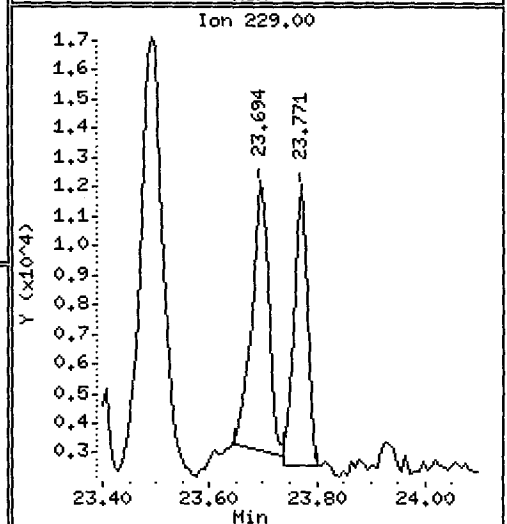
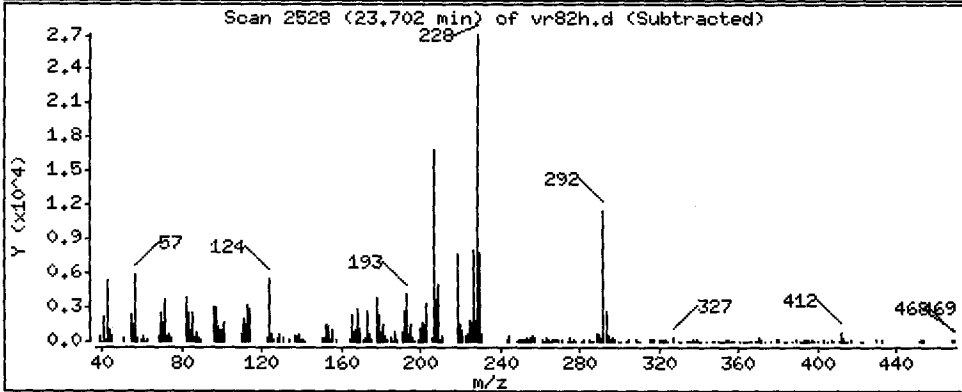
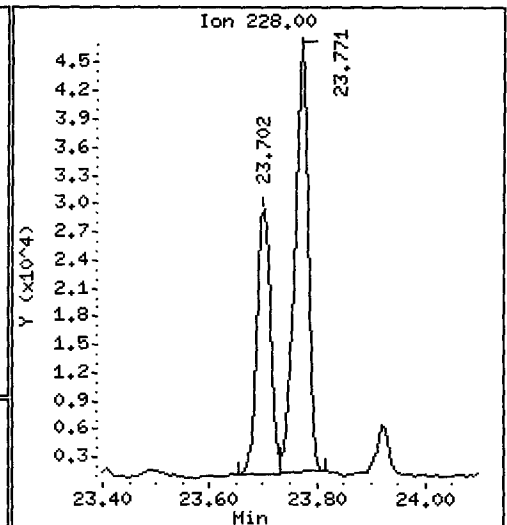
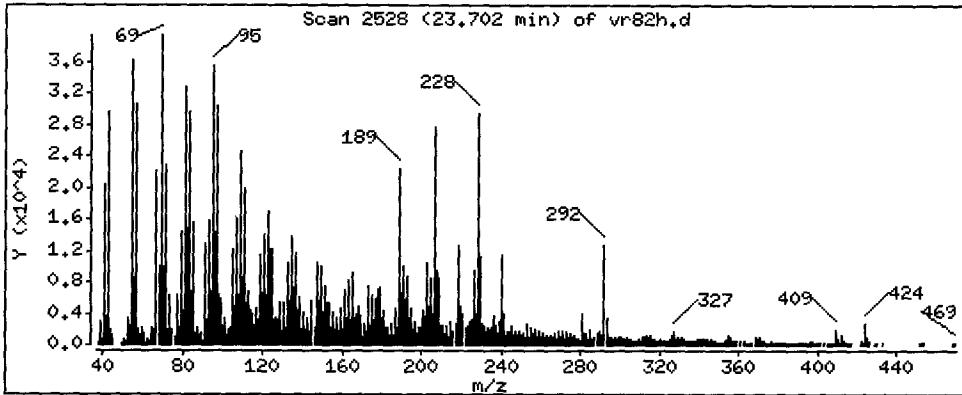
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 42.37 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

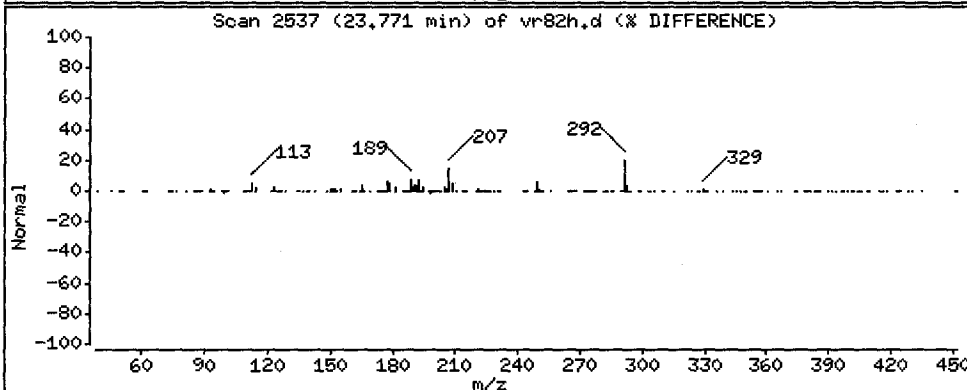
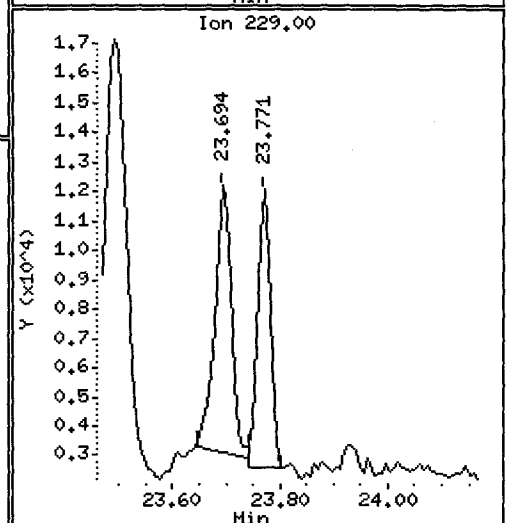
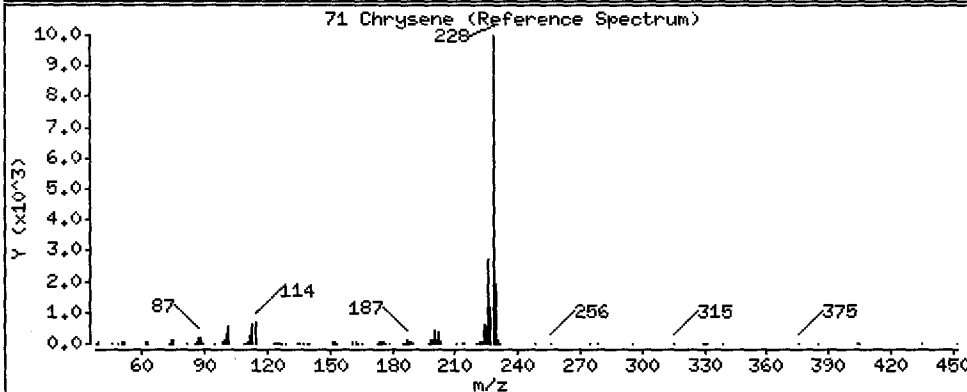
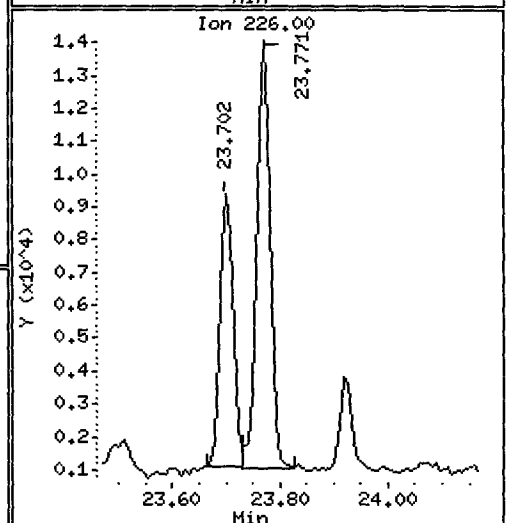
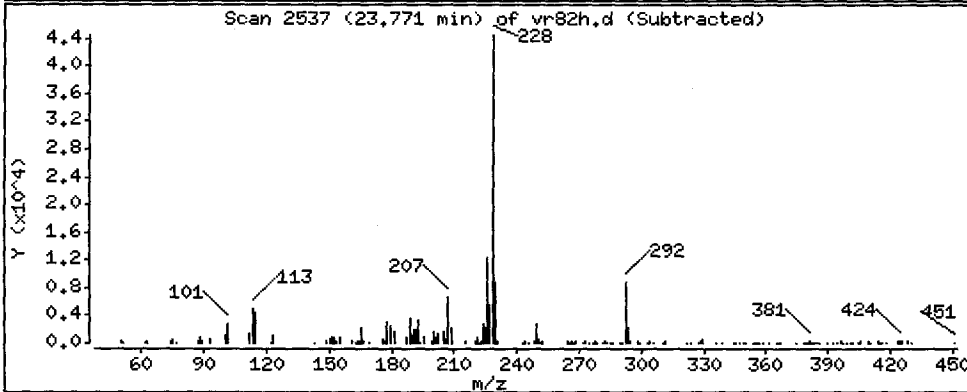
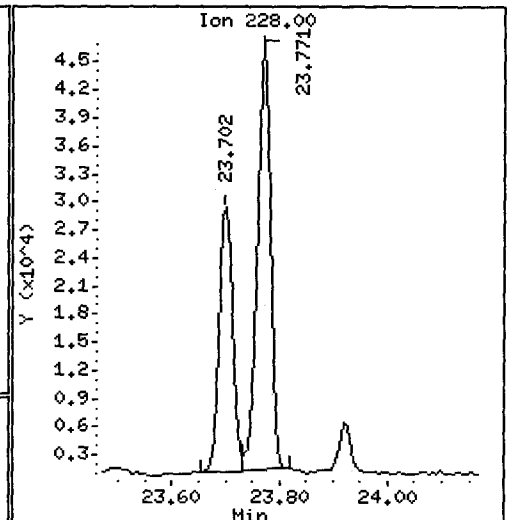
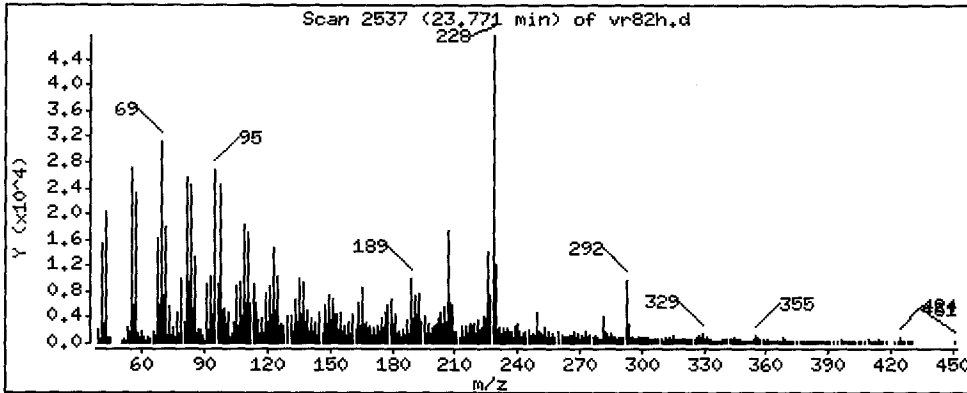
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 72.89 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

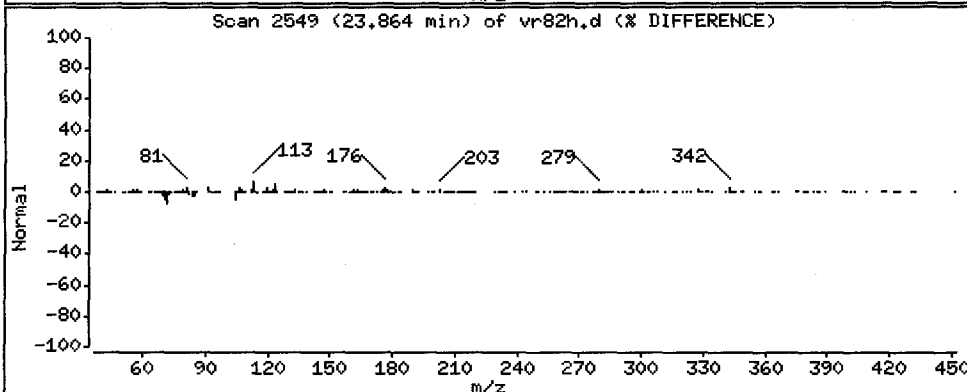
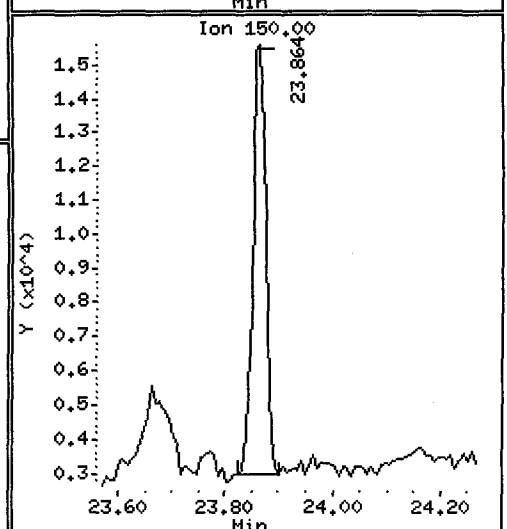
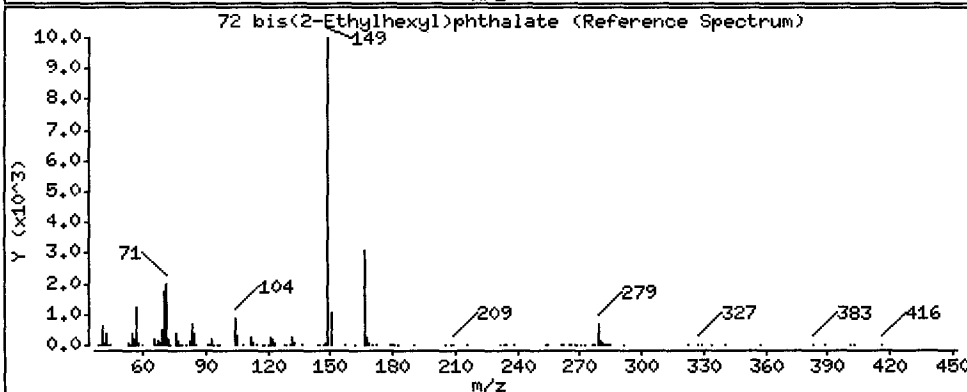
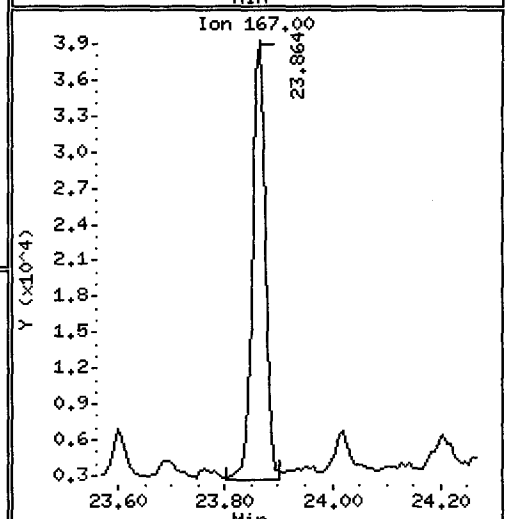
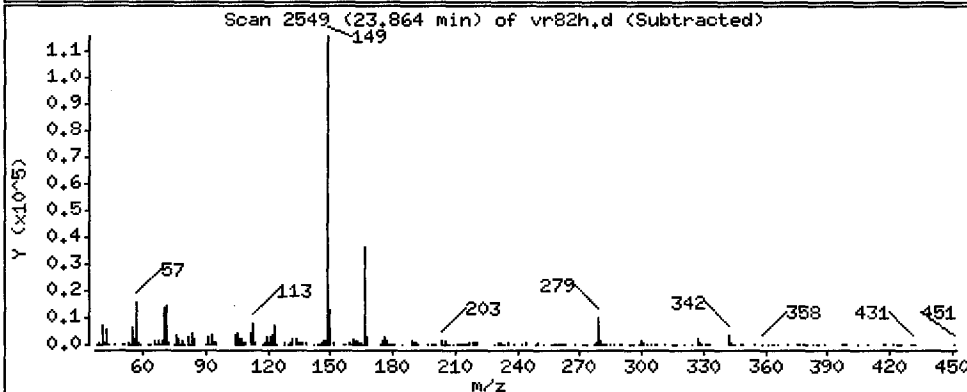
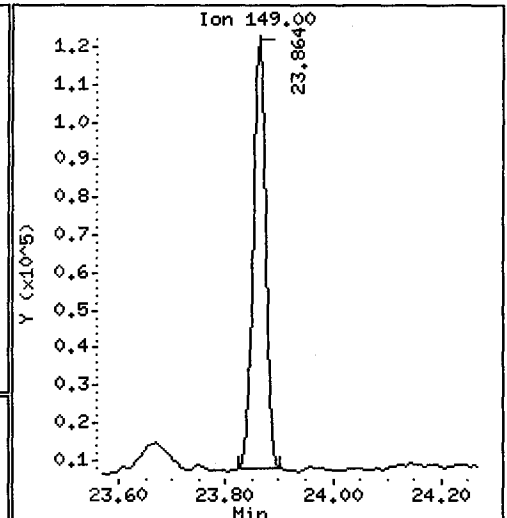
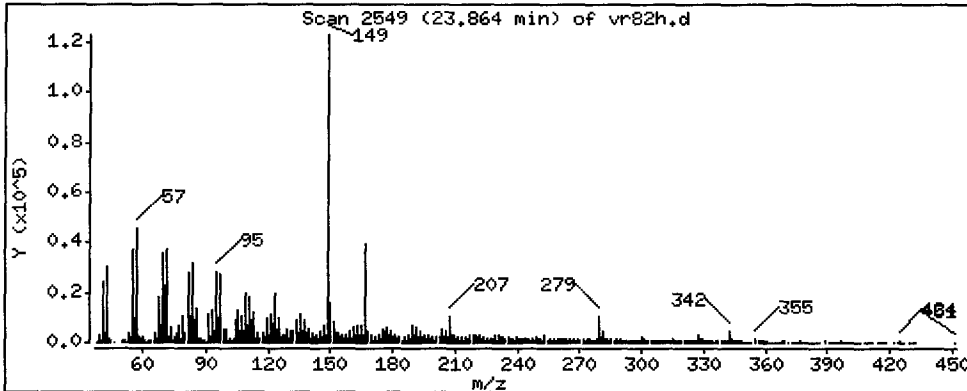
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 237.9 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

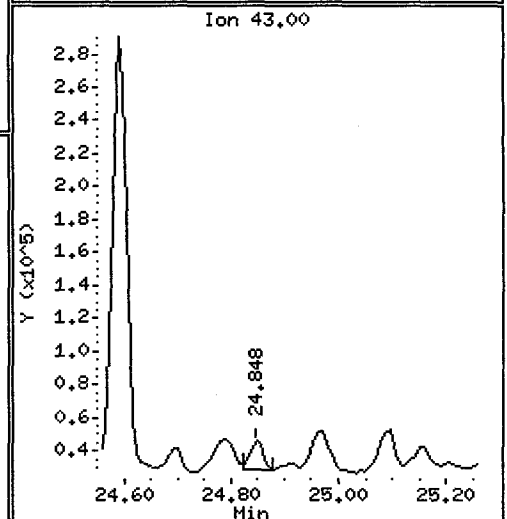
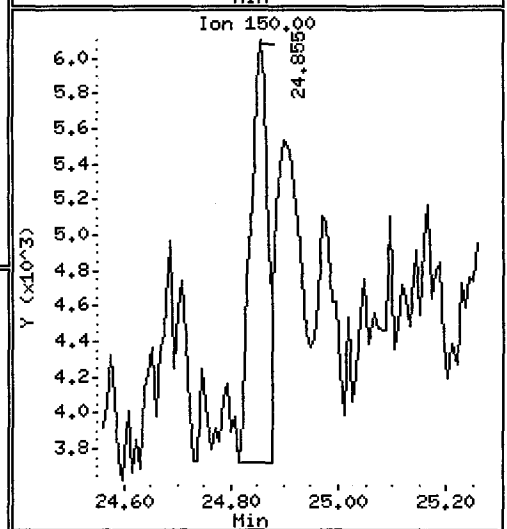
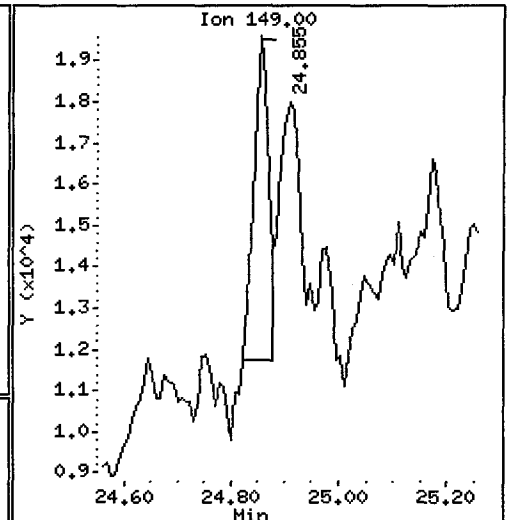
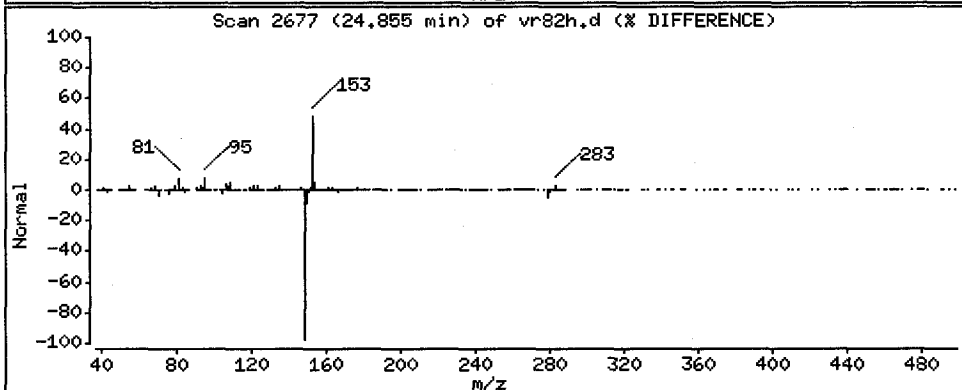
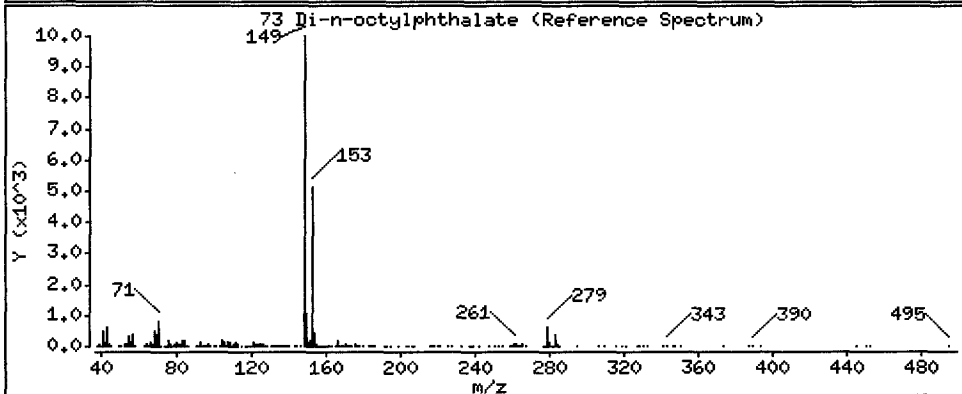
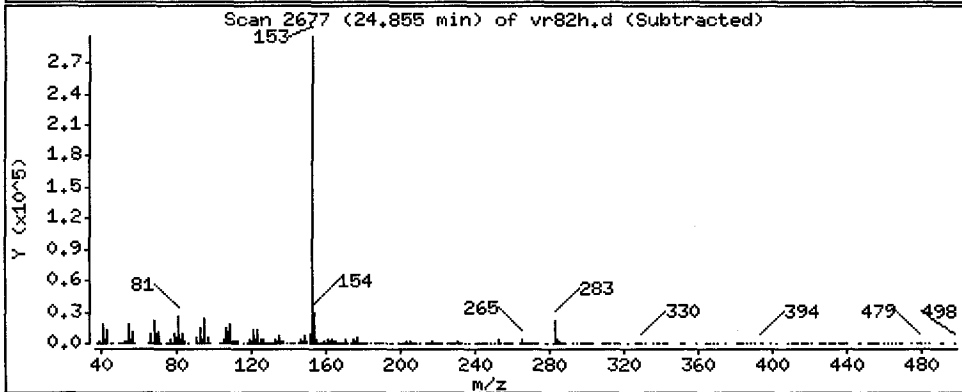
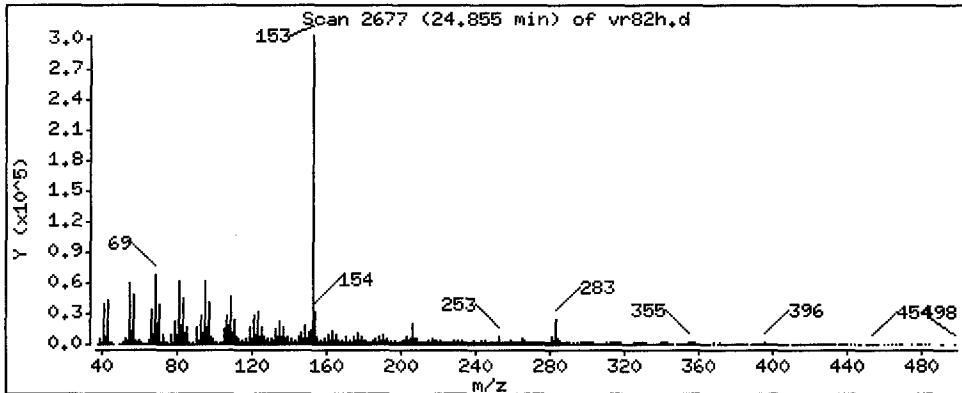
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 11.62 ug/kg

NOT reporting



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

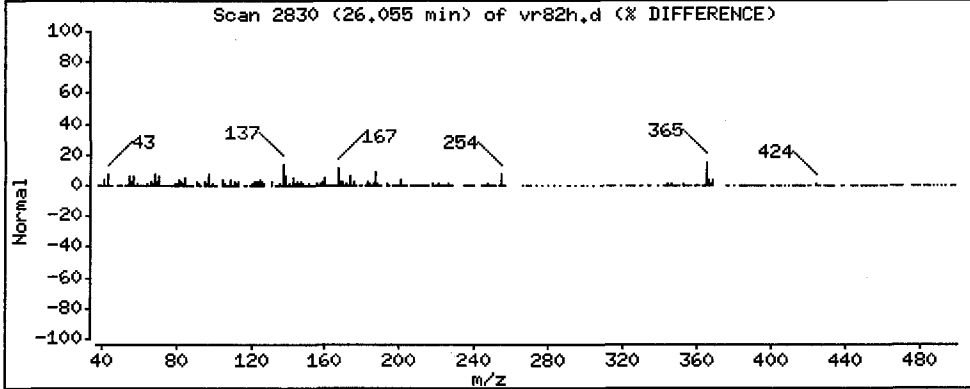
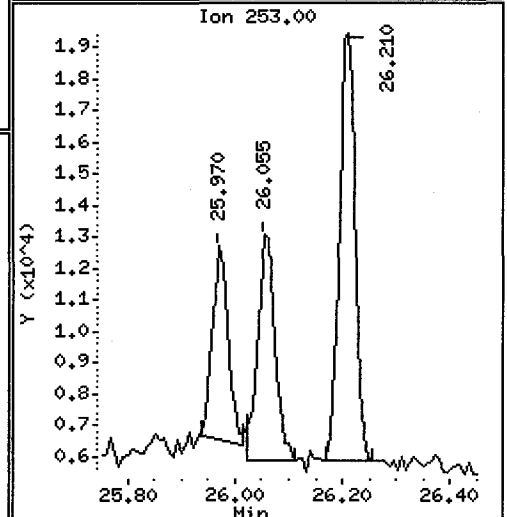
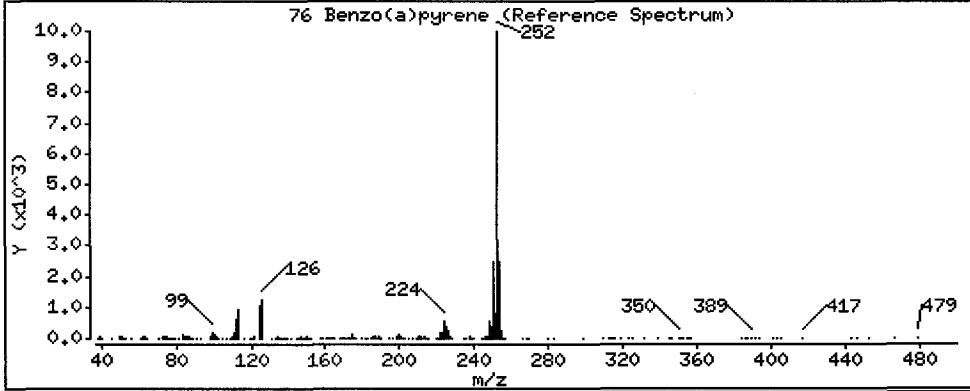
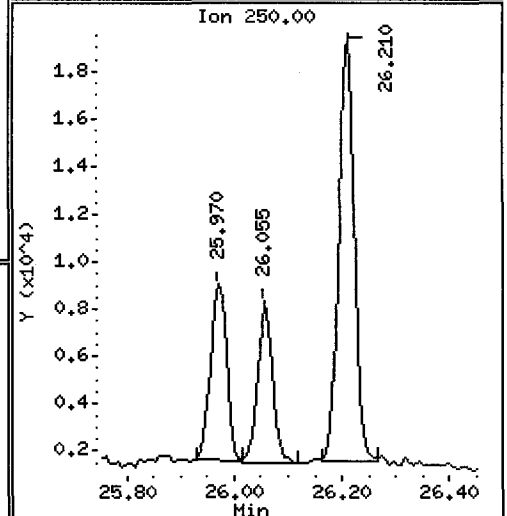
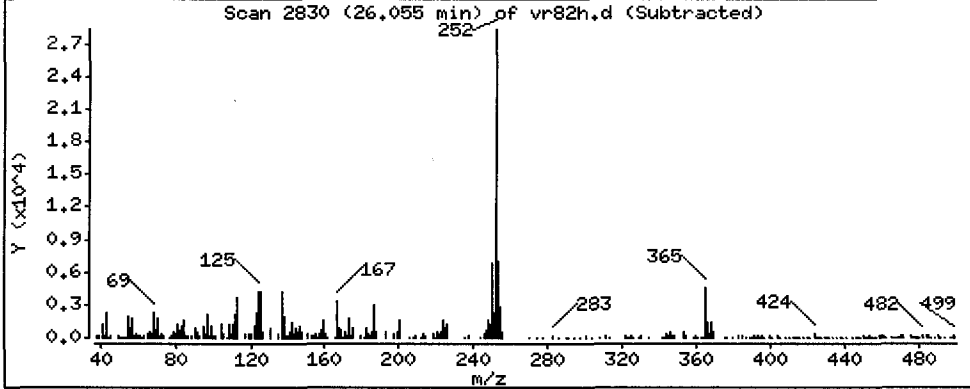
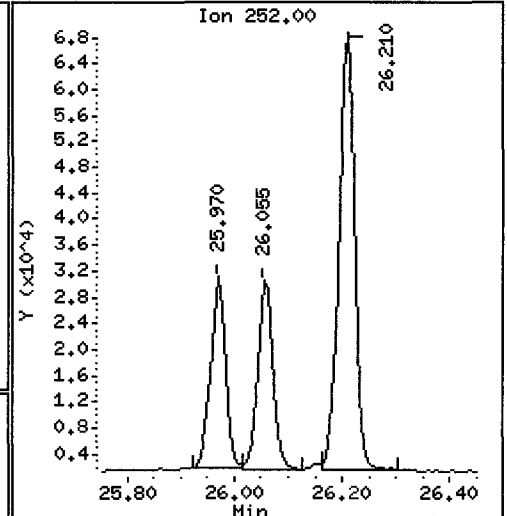
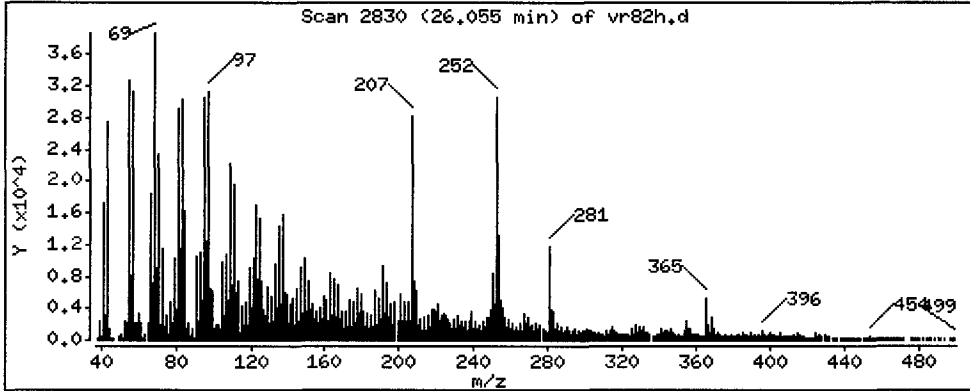
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 49.95 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

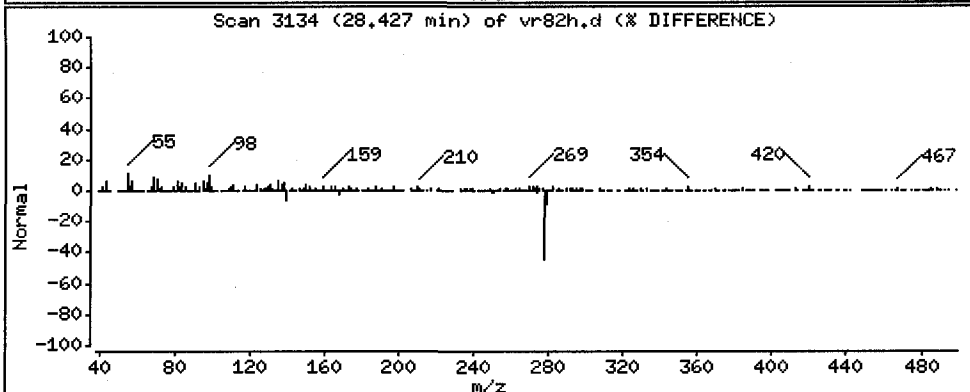
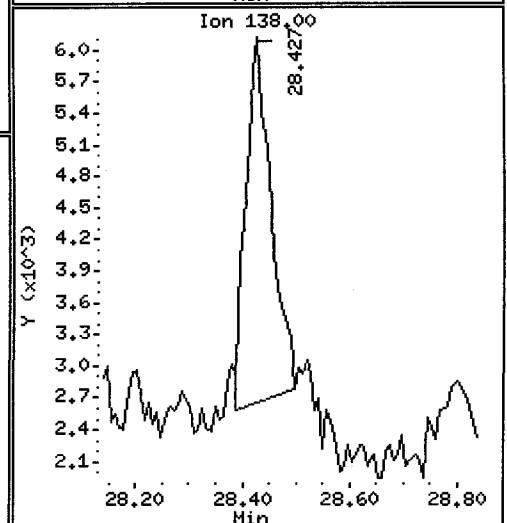
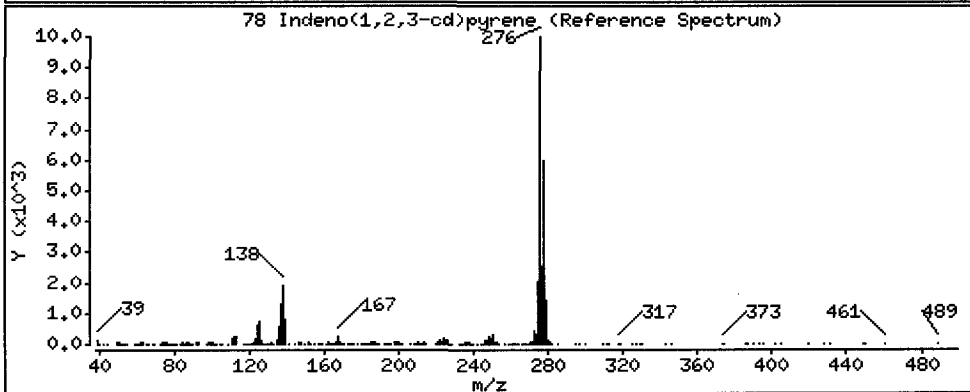
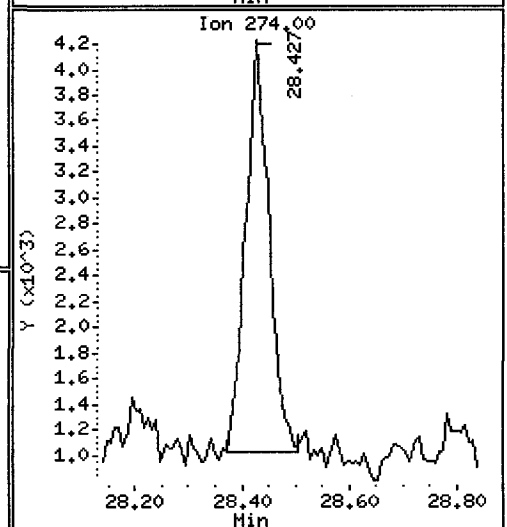
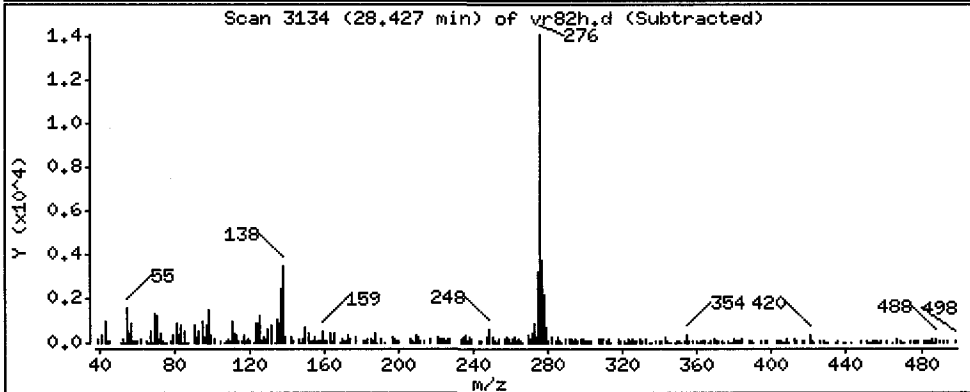
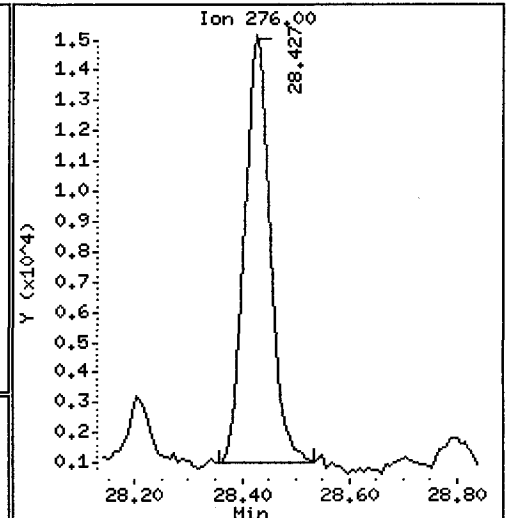
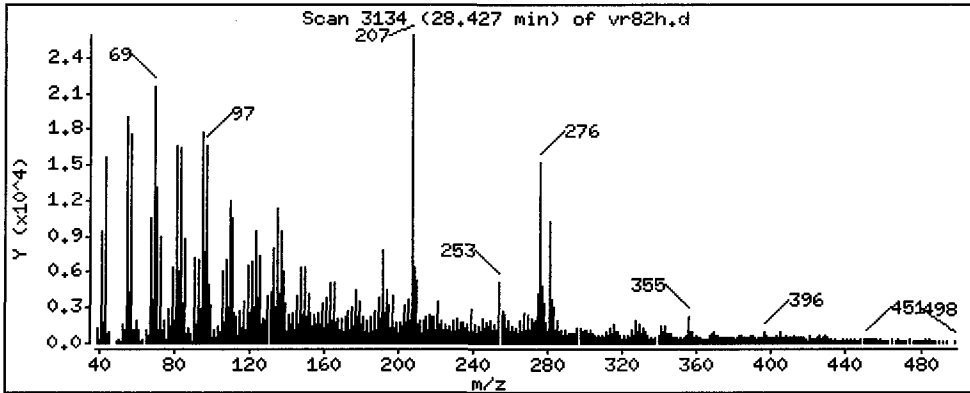
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 35.86 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

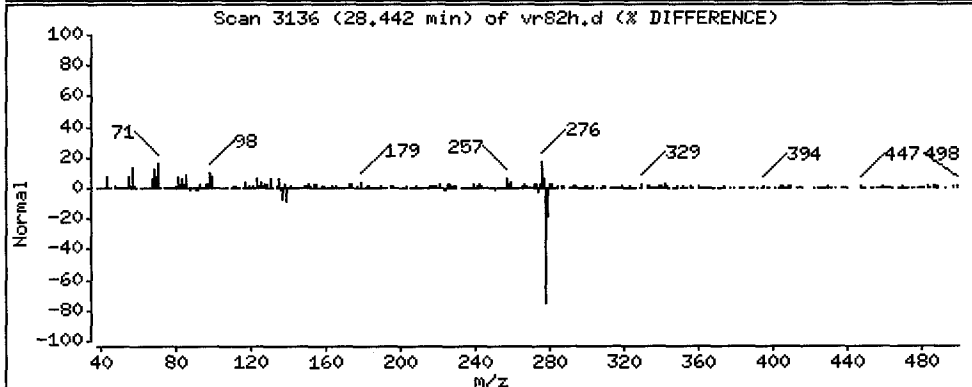
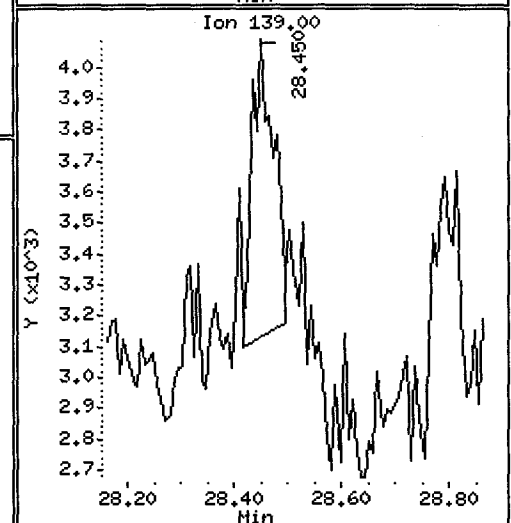
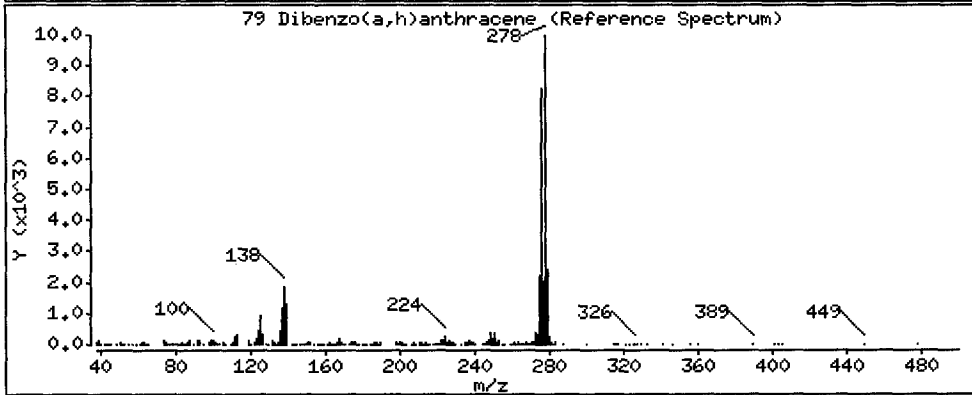
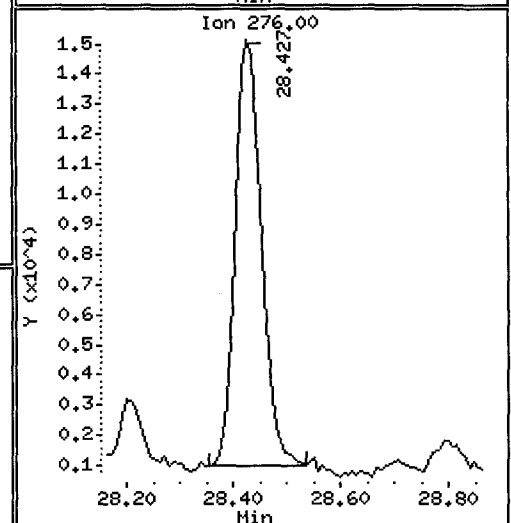
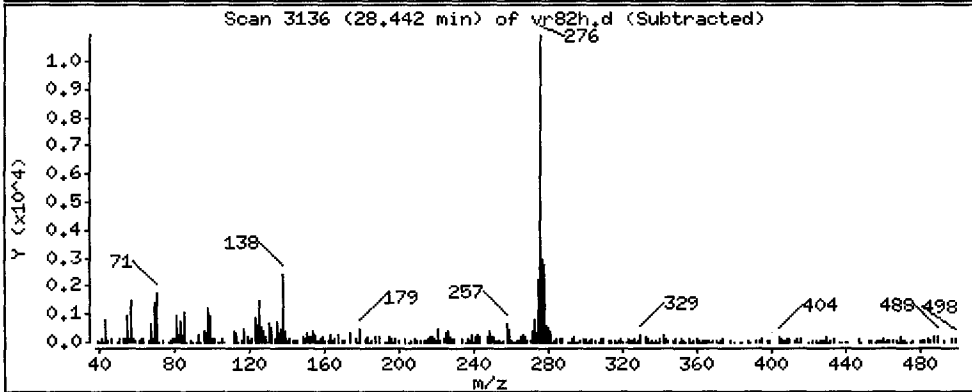
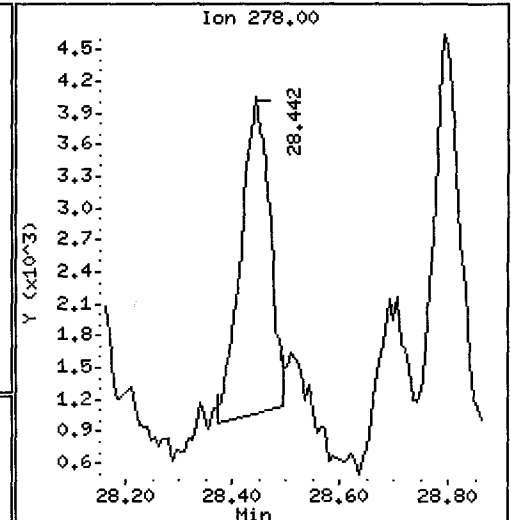
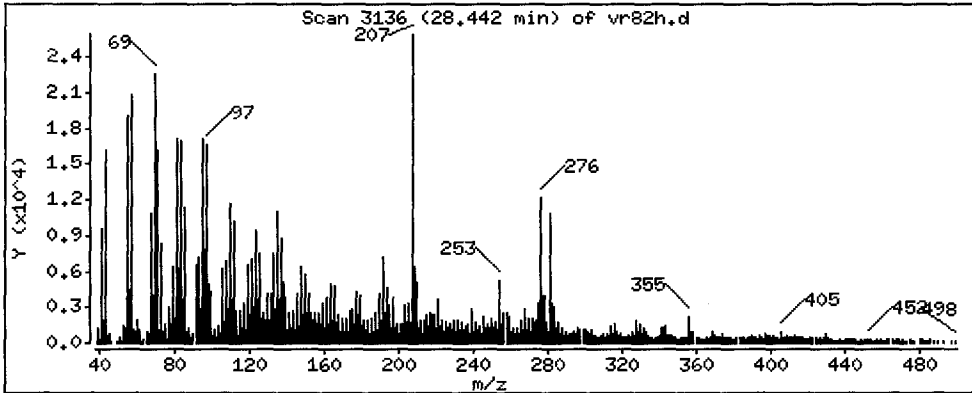
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 10.59 ug/kg

OCAL



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

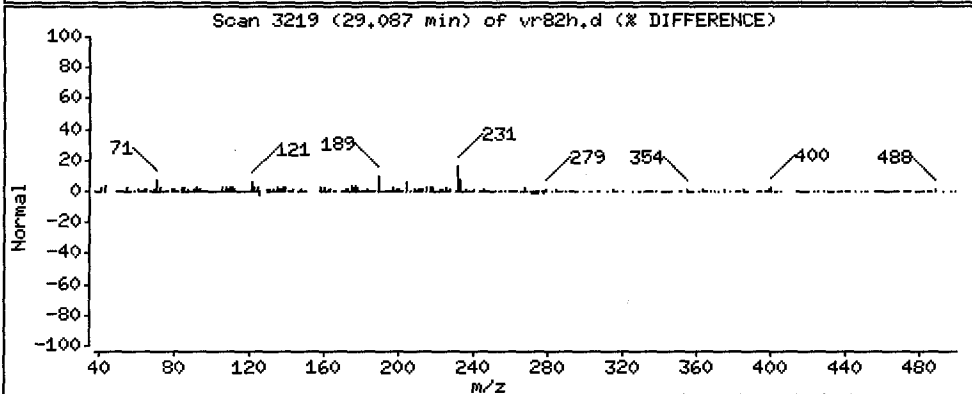
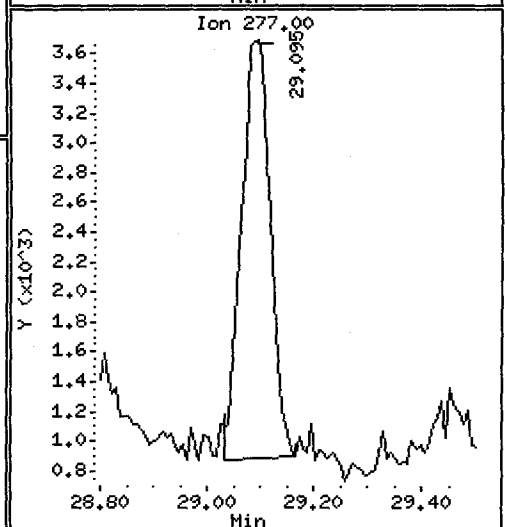
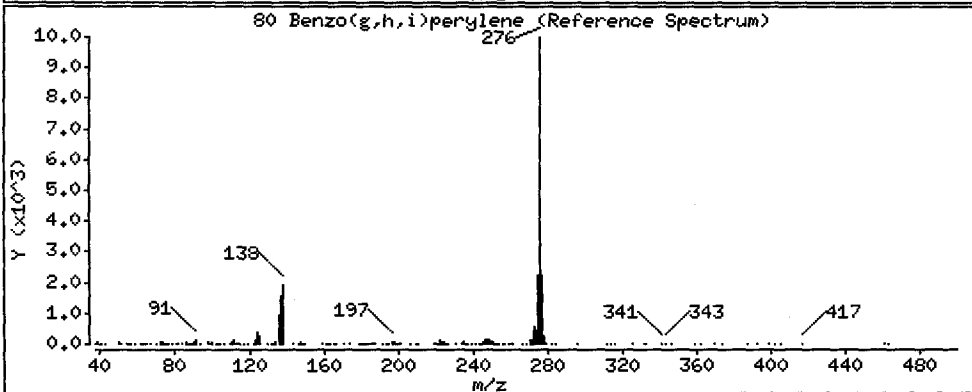
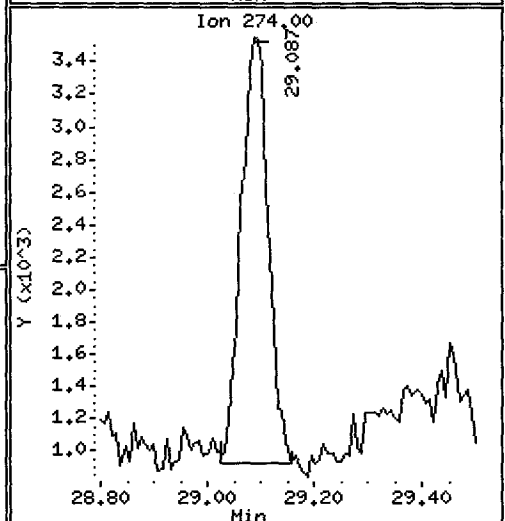
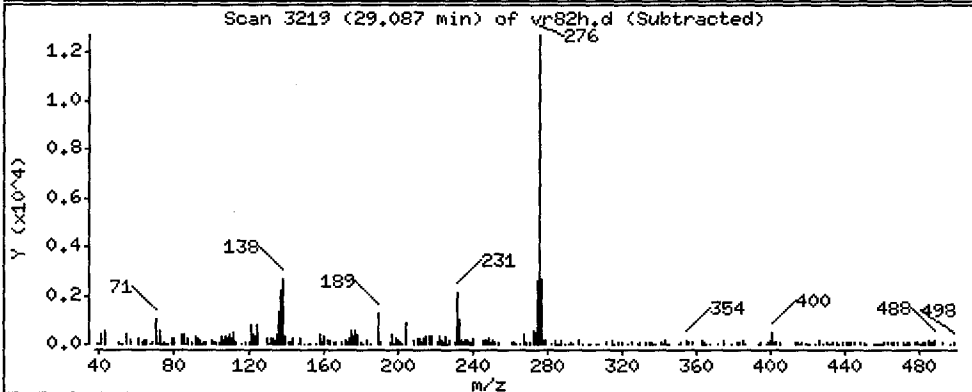
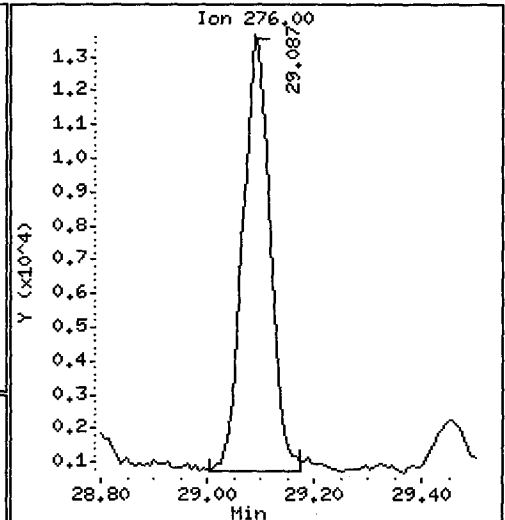
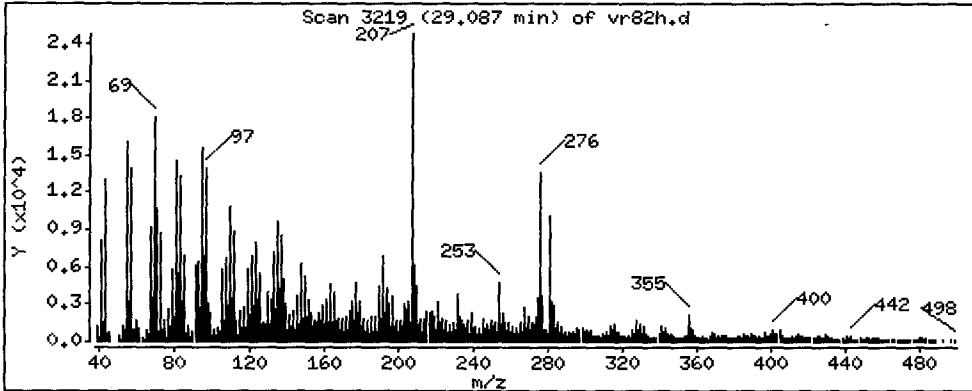
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 40.92 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

Operator: VTS/YZ

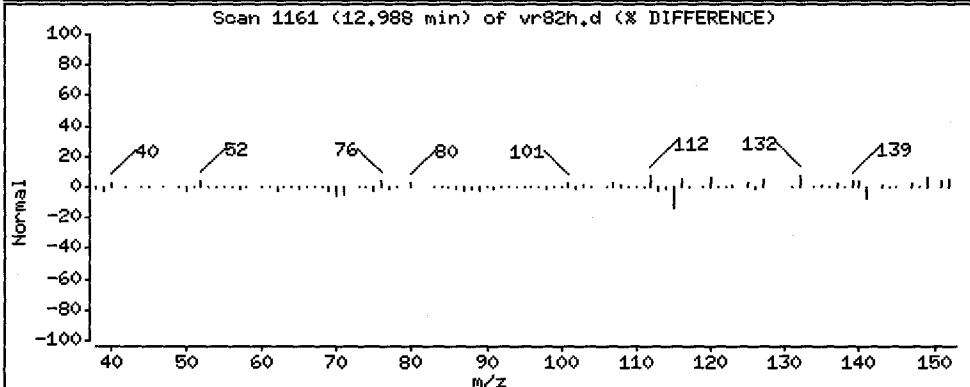
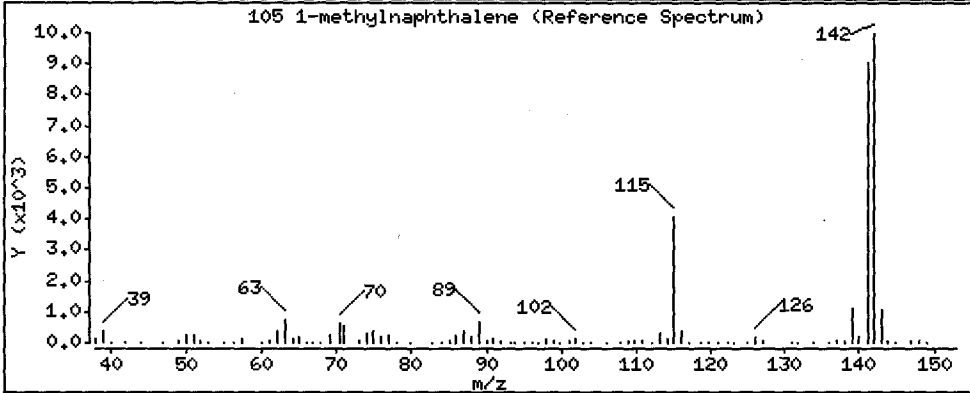
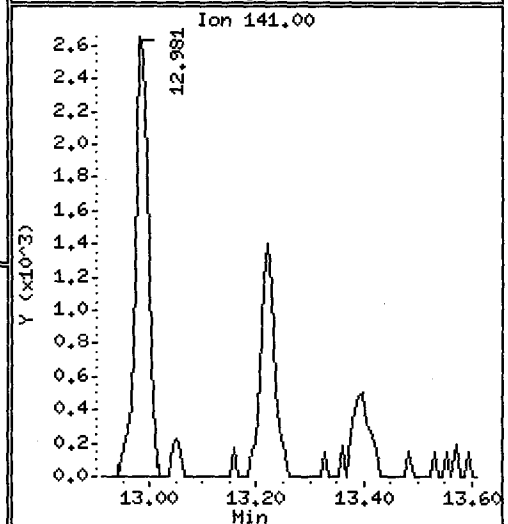
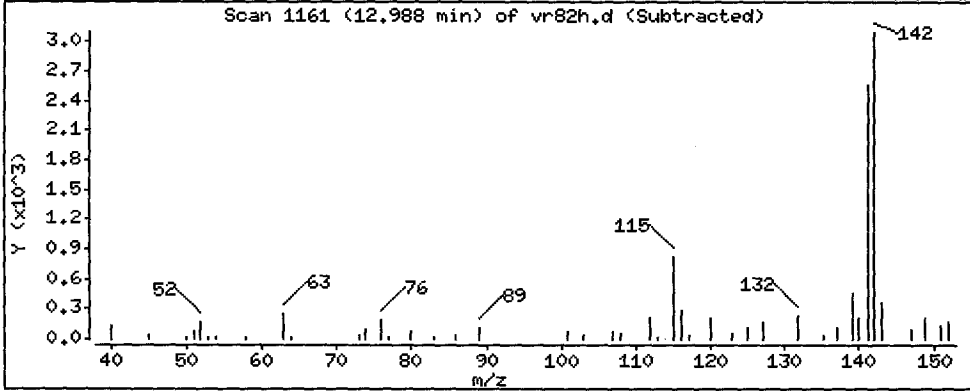
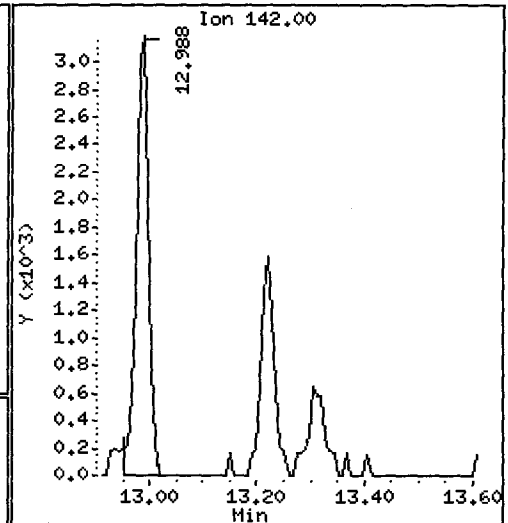
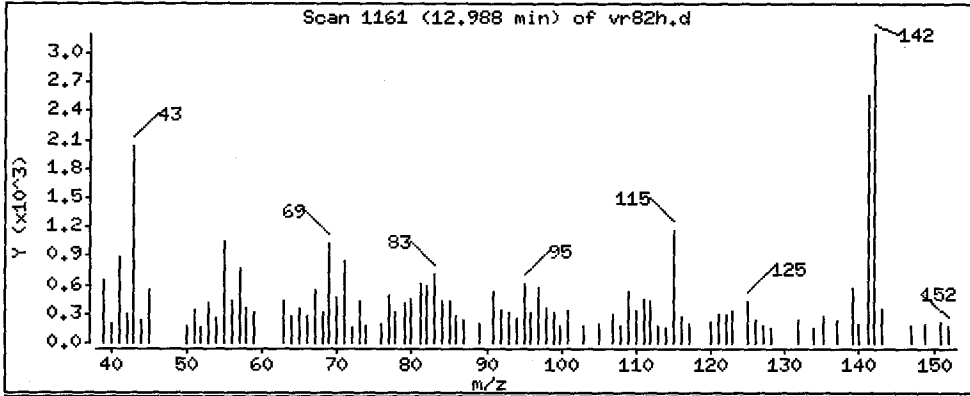
Column phase: ZB-5msi

Column diameter: 0.25

QURA

105 1-methylnaphthalene

Concentration: 9.816 ug/kg



Date : 05-DEC-2012 19:29

Client ID: SG-08-S-C-121108

Instrument: nt10.i

Sample Info: VR82H

Volume Injected (uL): 1.0

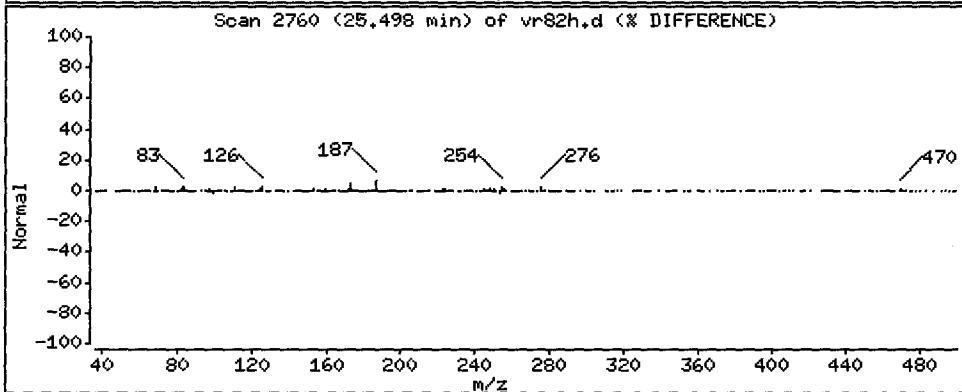
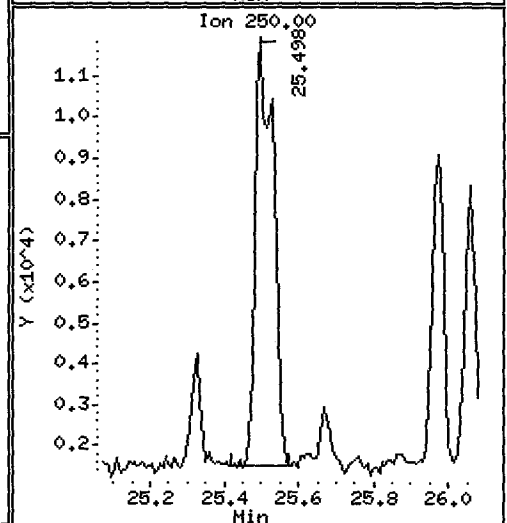
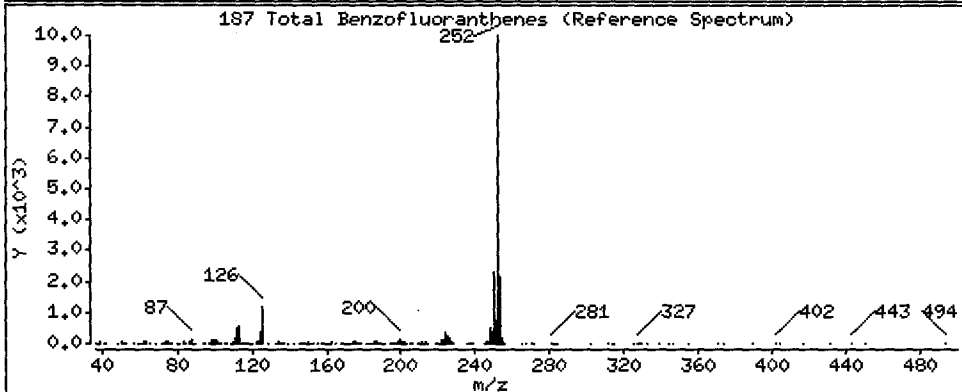
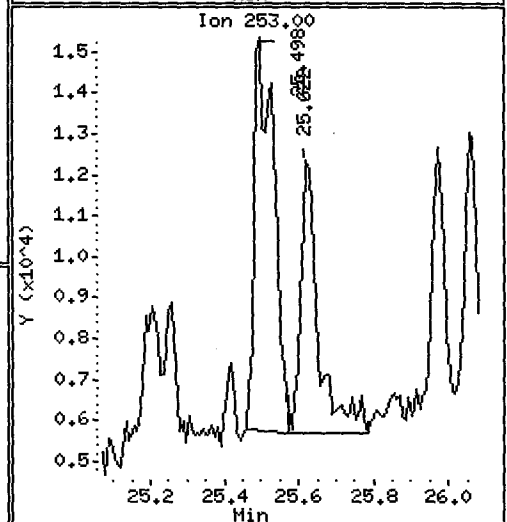
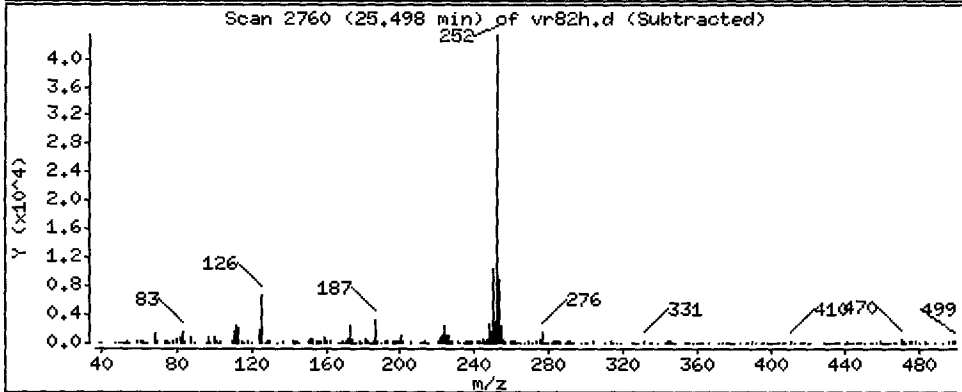
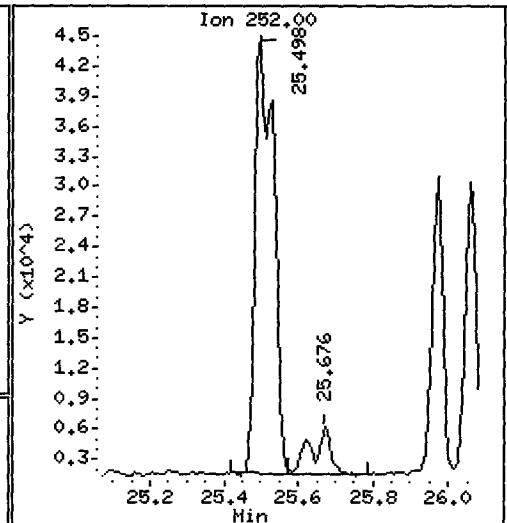
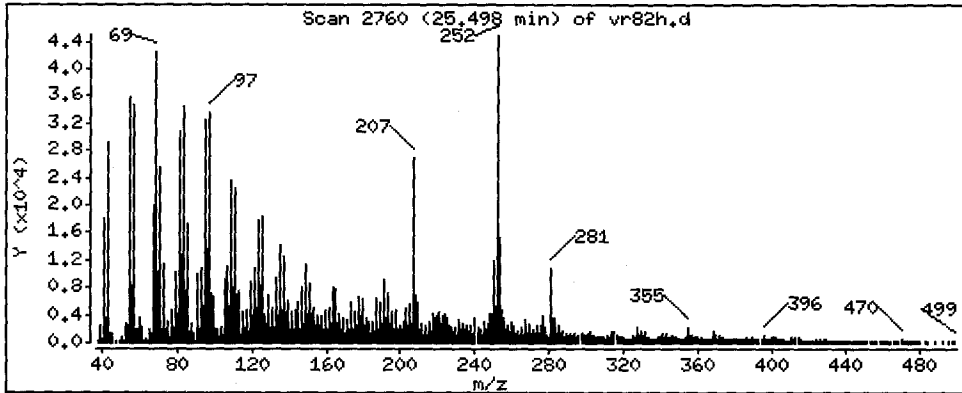
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 124.8 ug/kg



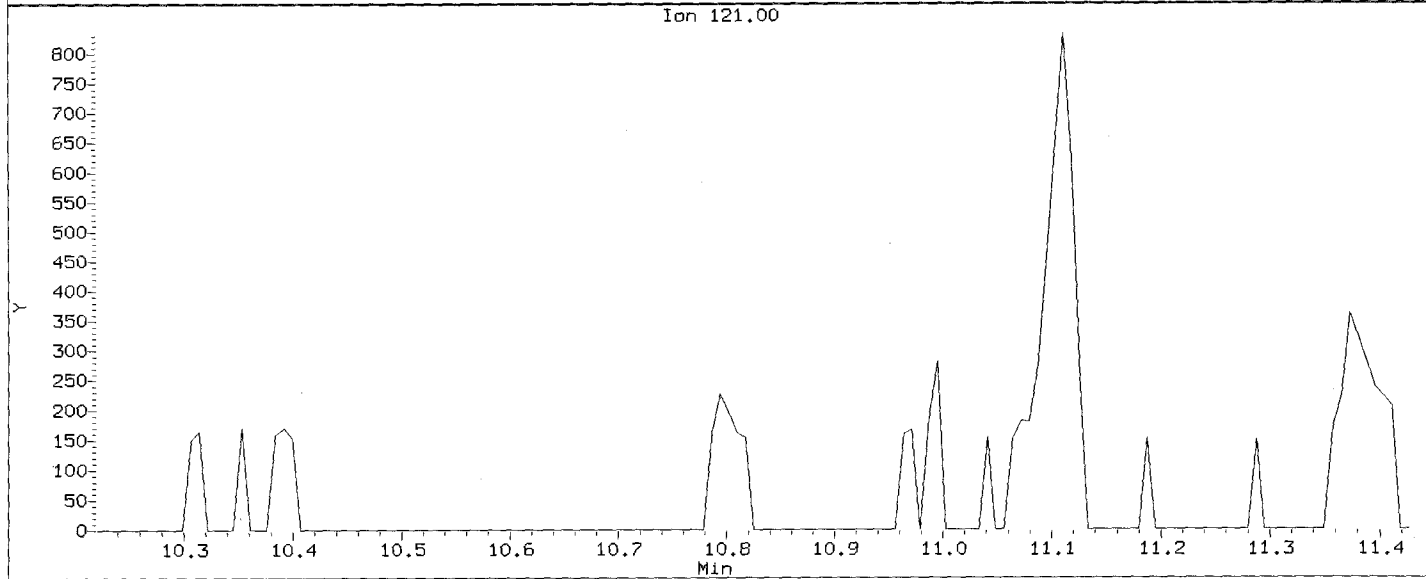
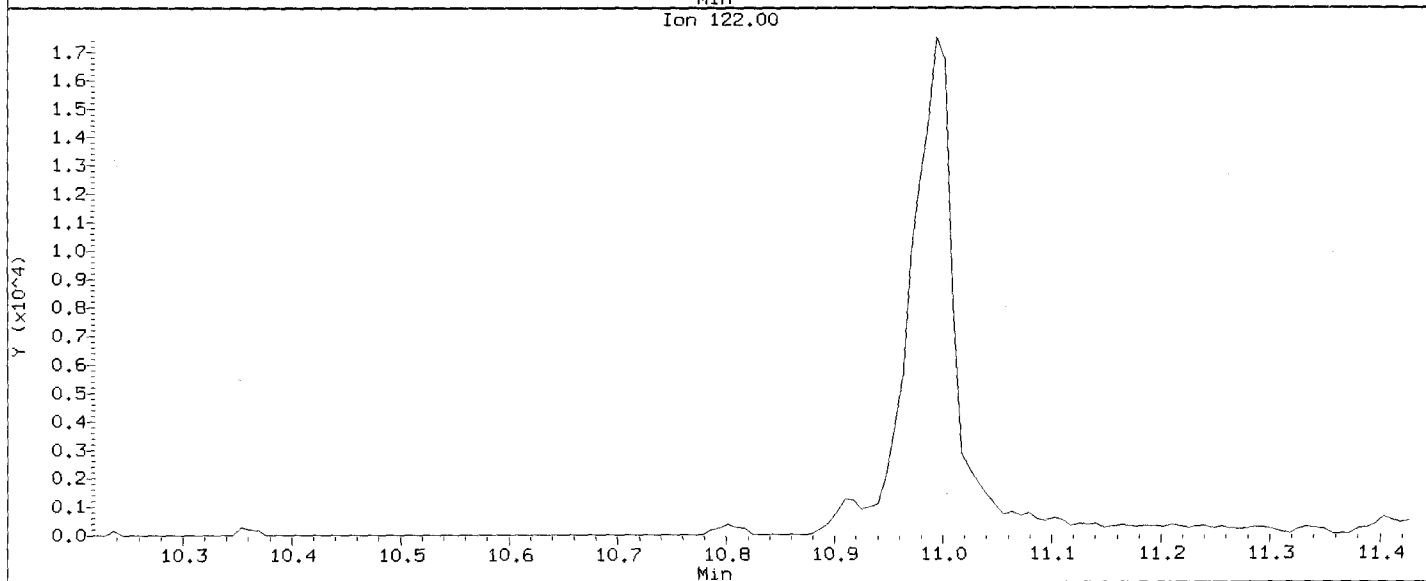
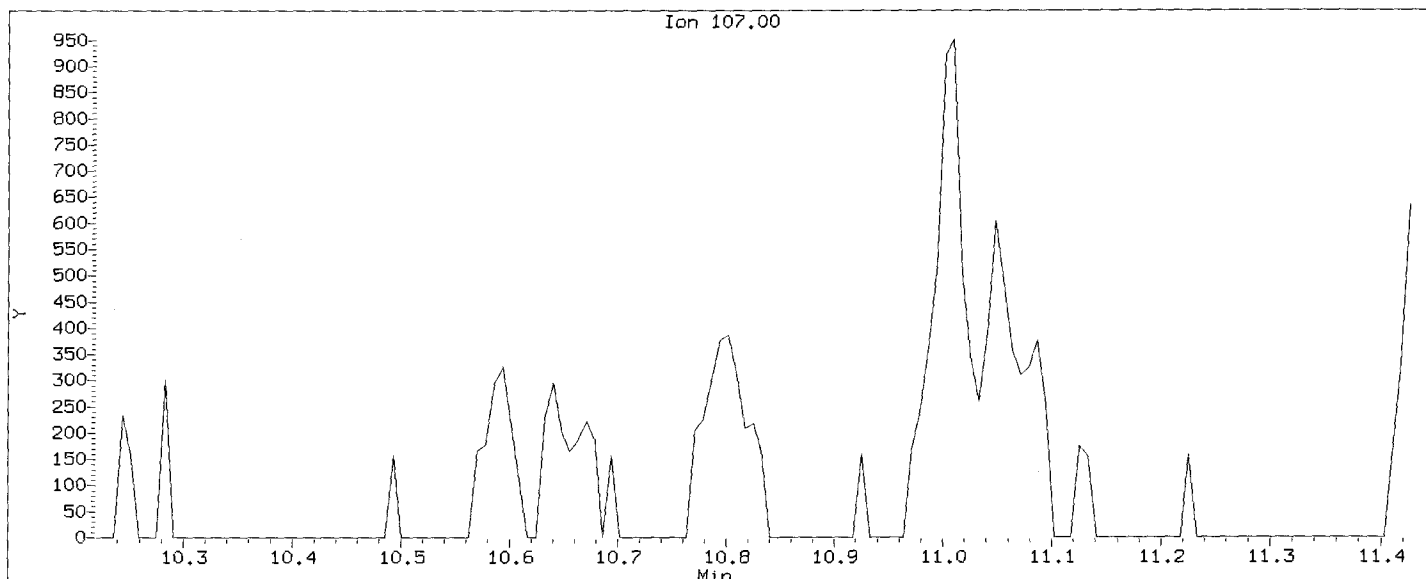
CO-ELUTION SUMMARY FOR FILE - vr82h.d

Lab ID: VR82H, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.i/20121205.b/vr82h.d
Injection Date: 05-DEC-2012 19:29
Instrument: nt10.i
Client Sample ID: SG-08-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



VR82: 00660

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20121205.b/vr82i.d
 Lab Smp Id: VR82I Client Smp ID: SG-09-S-C-121108
 Inj Date : 05-DEC-2012 20:06
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : VR82I
 Misc Info : 12-22487
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20121205.b/ABN.m
 Meth Date : 06-Dec-2012 09:36 van Quant Type: ISTD
 Cal Date : 29-NOV-2012 15:30 Cal File: ic1129i.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SHORTPSDDA.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	28.10000	Weight of sample extracted (g)
M	63.70000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
\$ 1 2-Fluorophenol	112	6.505	6.474	(0.740)	106265	4.40057	431.4
\$ 2 Phenol-d5	99	8.213	8.205	(0.935)	135604	4.53818	444.9
3 Phenol	94	8.236	8.228	(0.937)	12457	0.39574	38.80
\$ 5 2-Chlorophenol-d4	132	8.429	8.429	(0.959)	121105	4.68425	459.2
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	8.785	8.808	(1.000)	75488	4.00000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152	9.165	9.189	(1.043)	55545	2.94640	288.9
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	9.119	9.134	(1.038)	16398	1.10166	108.0
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					
15 4-Methylphenol	108	9.701	9.709	(1.104)	5949	0.37072	36.34
\$ 18 Nitrobenzene-d5	82	9.965	9.988	(0.871)	74391	2.56640	251.6
22 2,4-Dimethylphenol	107	Compound Not Detected.					

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)	
24 Benzoic acid	105	11.025	11.118	(0.964)	94590	5.23556	513.3	
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
* 27 Naphthalene-d8	136	11.441	11.472	(1.000)	309344	4.00000		
28 Naphthalene	128	11.488	11.519	(1.004)	18041	0.23971	23.50	
30 Hexachlorobutadiene	225	Compound Not Detected.						
32 2-Methylnaphthalene	142	Compound Not Detected.						
§ 36 2-Fluorobiphenyl	172	13.847	13.894	(0.904)	229805	3.06013	300.0	
39 Dimethylphthalate	163	Compound Not Detected.						
40 Acenaphthylene	152	Compound Not Detected.						
* 42 Acenaphthene-d10	164	15.325	15.372	(1.000)	212175	4.00000		
44 Acenaphthene	153	Compound Not Detected.						
46 Dibenzofuran	168	Compound Not Detected.						
50 Diethylphthalate	149	Compound Not Detected.						
49 Fluorene	166	Compound Not Detected.						
54 N-Nitrosodiphenylamine	169	Compound Not Detected.						
§ 55 2,4,6-Tribromophenol	330	17.110	17.156	(1.116)	75413	6.03388	591.5	
57 Hexachlorobenzene	284	Compound Not Detected.						
58 Pentachlorophenol	266	Compound Not Detected.						
* 59 Phenanthrene-d10	188	18.601	18.656	(1.000)	370798	4.00000		
60 Phenanthrene	178	18.648	18.702	(1.002)	55410	0.60354	59.17	
61 Anthracene	178	Compound Not Detected.						
63 Di-n-butylphthalate	149	Compound Not Detected.						
64 Fluoranthene	202	21.100	21.139	(1.134)	143865	1.24321	121.9	
65 Pyrene	202	21.518	21.565	(0.907)	137196	1.17046	114.7	
§ 66 Terphenyl-d14	244	21.843	21.898	(0.920)	301289	3.84532	377.0	
67 Butylbenzylphthalate	149	22.803	22.858	(0.961)	14342	0.30121	29.53	
68 Benzo (a) anthracene	228	23.702	23.748	(0.999)	47133	0.41447	40.63 (H)	
* 69 Chrysene-d12	240	23.733	23.771	(1.000)	400110	4.00000		
71 Chrysene	228	23.771	23.818	(1.002)	73266	0.72521	71.10	
72 bis(2-Ethylhexyl)phthalate	149	23.864	23.918	(0.960)	176372	2.45760	240.9	
* 134 Di-n-octylphthalate-d4	153	24.847	24.902	(1.000)	520126	4.00000		
73 Di-n-octylphthalate	149	24.855	24.909	(1.000)	16886	0.14522	14.04 <i>NO</i>	
76 Benzo (a) pyrene	252	26.055	26.102	(0.996)	48882	0.46187	45.28	
* 77 Perylene-d12	264	26.156	26.210	(1.000)	370845	4.00000		
78 Indeno (1,2,3-cd) pyrene	276	28.426	28.489	(1.087)	41101	0.34266	33.59	
79 Dibenzo (a,h) anthracene	278	28.434	28.512	(1.087)	12763	0.13408	13.14	
80 Benzo (g,h,i) perylene	276	29.079	29.149	(1.112)	37826	0.36848	36.12	
105 1-methylnaphthalene	142	Compound Not Detected.						
187 Total Benzofluoranthenes	252	25.490	25.575	(0.975)	132308	1.21237	118.9	
98 Retene	219	22.137	22.215	(0.933)	26814			
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.						

QC Flag Legend

H - Operator selected an alternate compound hit.

(V)
12-6-12

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: vr82i.d
 Lab Smp Id: VR82I
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22487

Calibration Date: 05-DEC-2012
 Calibration Time: 11:49
 Client Smp ID: SG-09-S-C-121108
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	81571	40786	163142	75488	-7.46
27 Naphthalene-d8	299399	149700	598798	309344	3.32
42 Acenaphthene-d10	178564	89282	357128	212175	18.82
59 Phenanthrene-d10	305410	152705	610820	370798	21.41
69 Chrysene-d12	323853	161926	647706	400110	23.55
134 Di-n-octylphthala	427845	213922	855690	520126	21.57
77 Perylene-d12	305316	152658	610632	370845	21.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.81	8.31	9.31	8.79	-0.27
27 Naphthalene-d8	11.47	10.97	11.97	11.44	-0.27
42 Acenaphthene-d10	15.37	14.87	15.87	15.33	-0.30
59 Phenanthrene-d10	18.66	18.16	19.16	18.60	-0.29
69 Chrysene-d12	23.77	23.27	24.27	23.73	-0.16
134 Di-n-octylphthala	24.90	24.40	25.40	24.85	-0.22
77 Perylene-d12	26.21	25.71	26.71	26.16	-0.21

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.

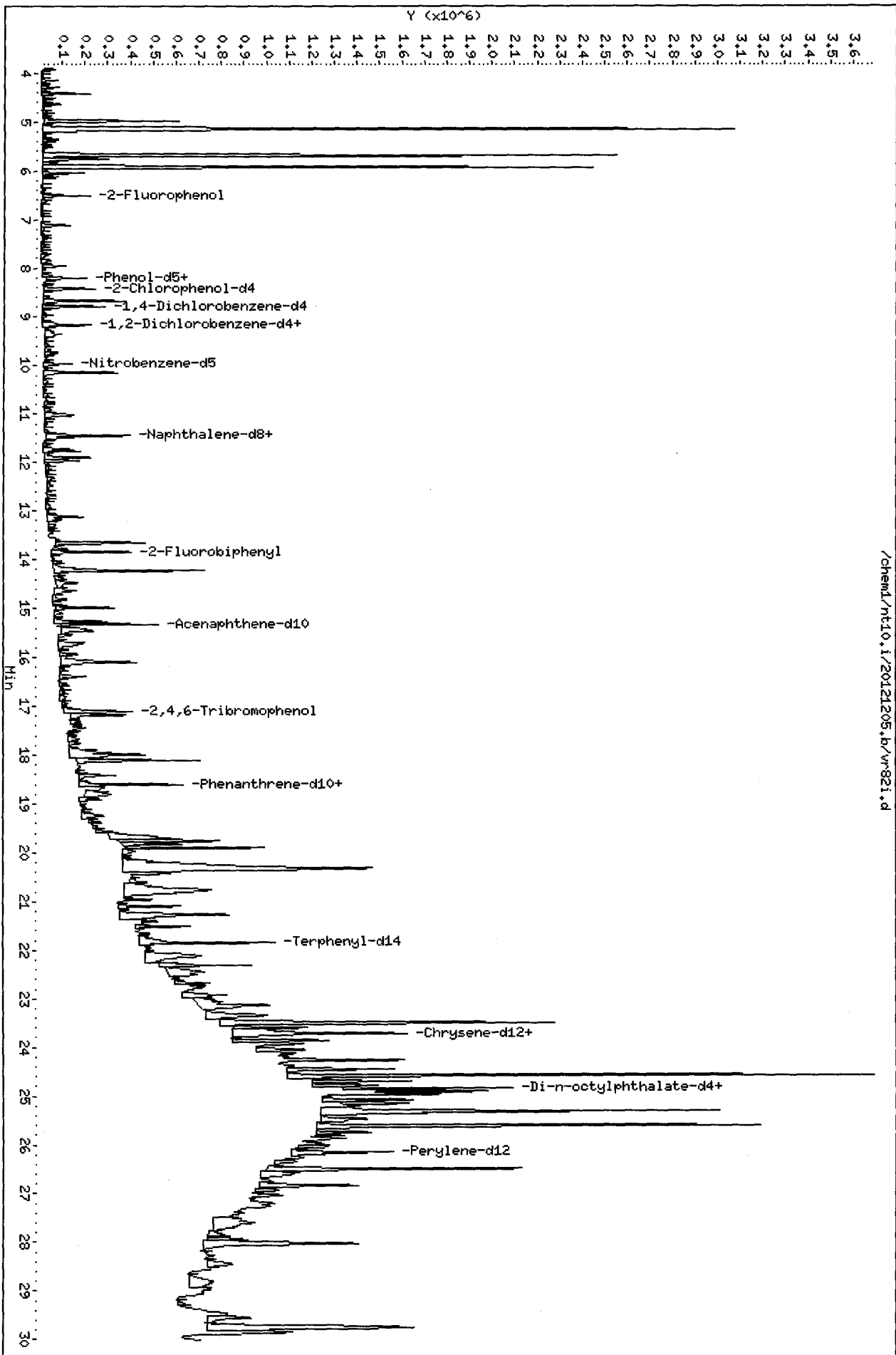
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.
 Sample Matrix: SOLID
 Lab Smp Id: VR82I
 Level: LOW
 Data Type: MS DATA
 SpikeList File: SHORTPSDDA.spk
 Sublist File: SHORTPSDDA.sub
 Method File: /chem1/nt10.i/20121205.b/ABN.m
 Misc Info: 12-22487

Client SDG: VR82
 Fraction: SV
 Client Smp ID: SG-09-S-C-121108
 Operator: VTS/YZ
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	735.3	431.4	58.67	30-160
\$ 2 Phenol-d5	735.3	444.9	60.51	30-160
\$ 5 2-Chlorophenol-d4	735.3	459.2	62.46	30-160
\$ 10 1,2-Dichlorobenzen	490.2	288.9	58.93	30-160
\$ 18 Nitrobenzene-d5	490.2	251.6	51.33	30-160
\$ 36 2-Fluorobiphenyl	490.2	300.0	61.20	30-160
\$ 55 2,4,6-Tribromophen	735.3	591.5	80.45	30-160
\$ 66 Terphenyl-d14	490.2	377.0	76.91	30-160



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

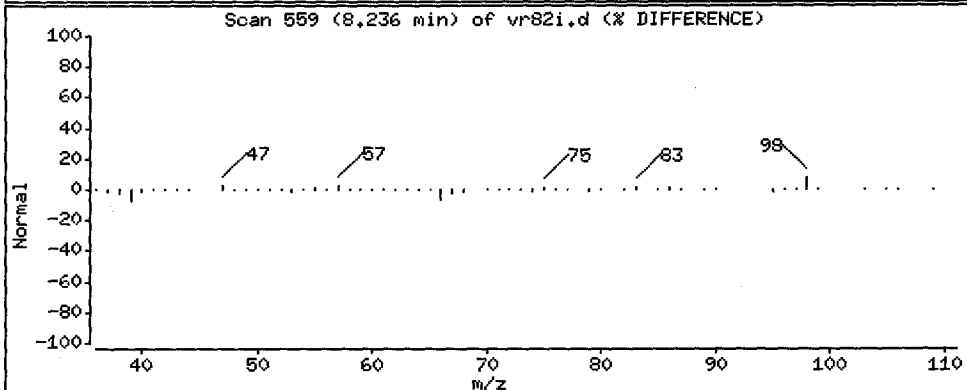
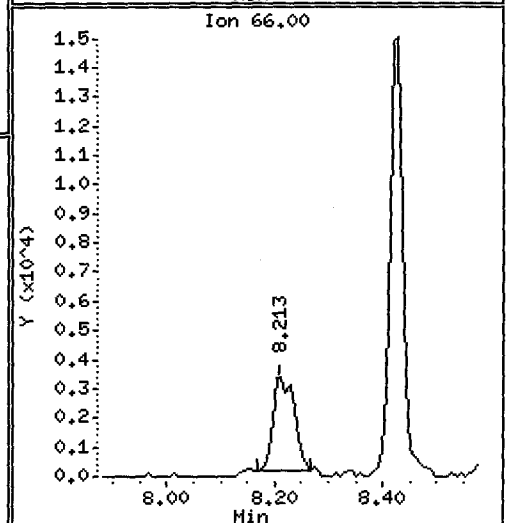
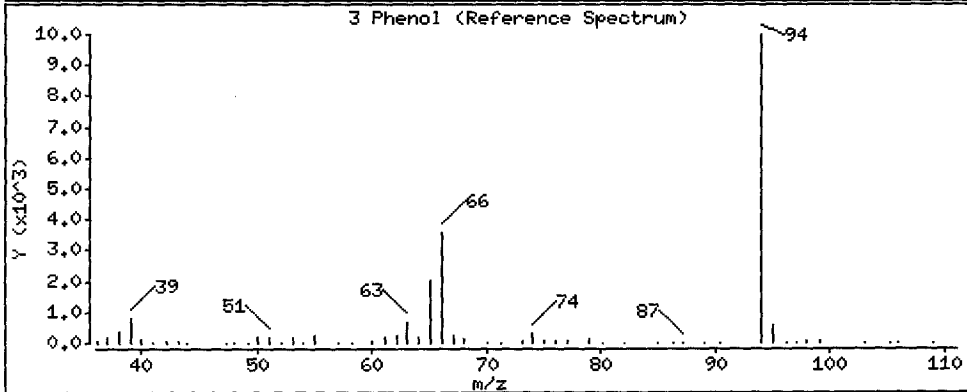
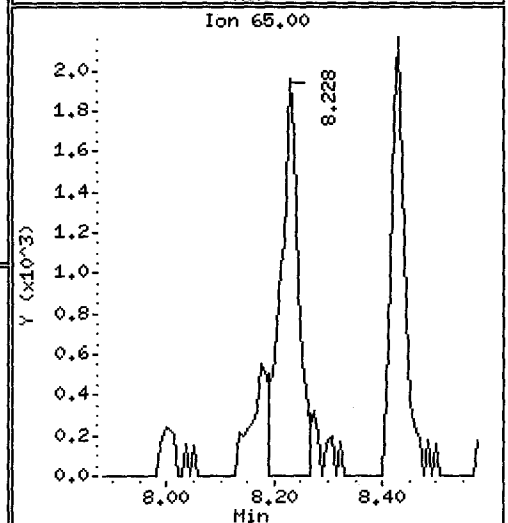
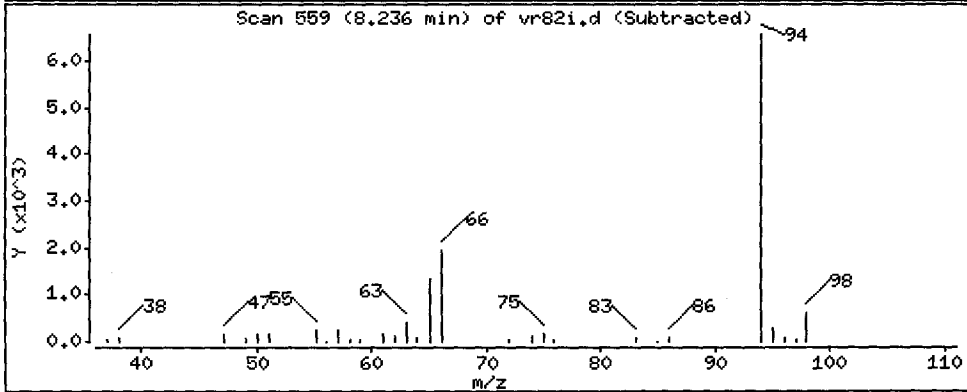
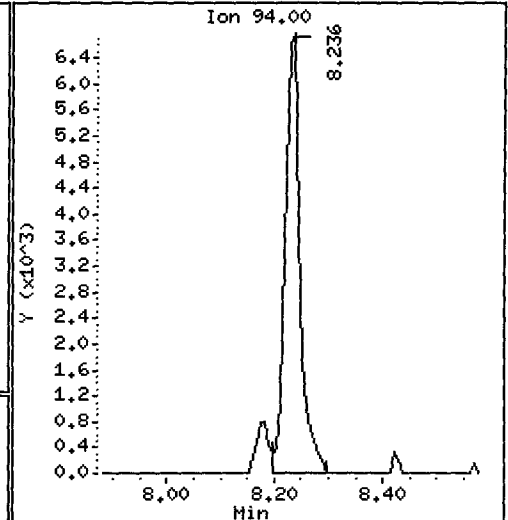
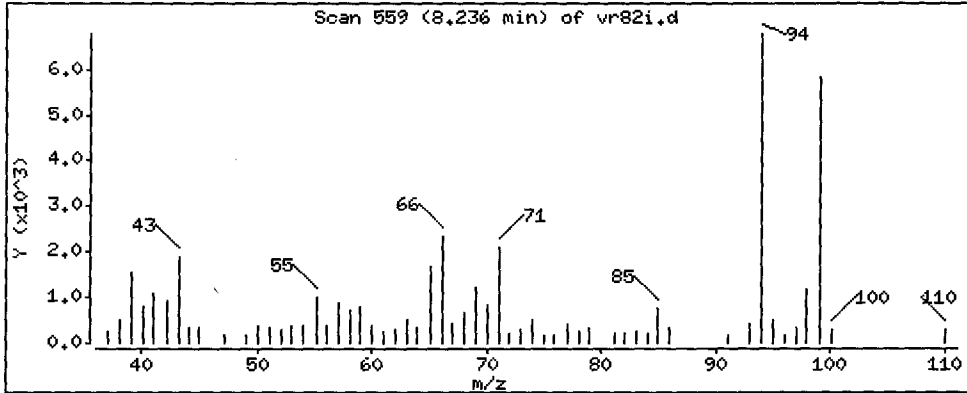
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 38.80 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

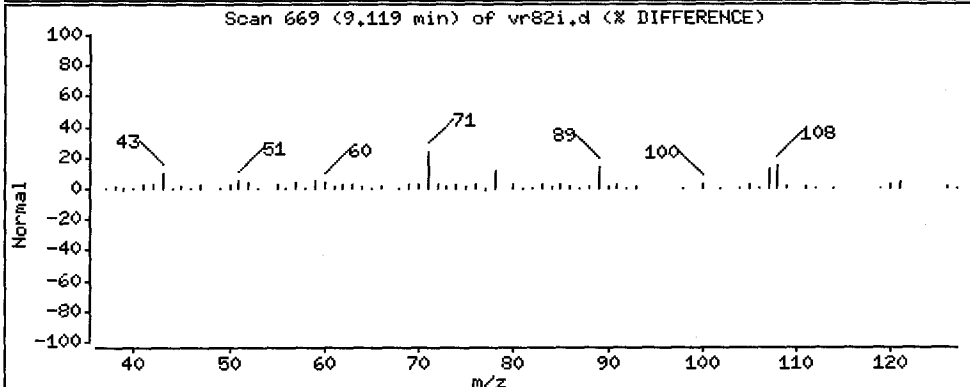
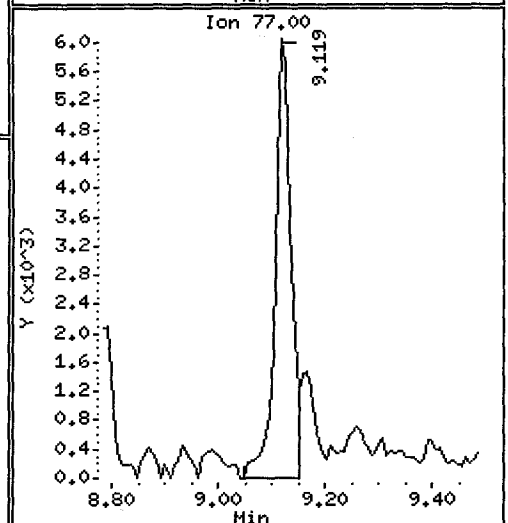
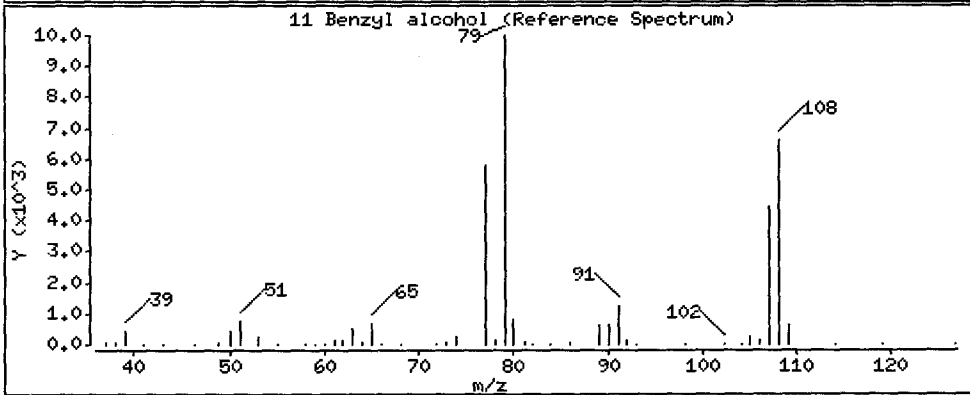
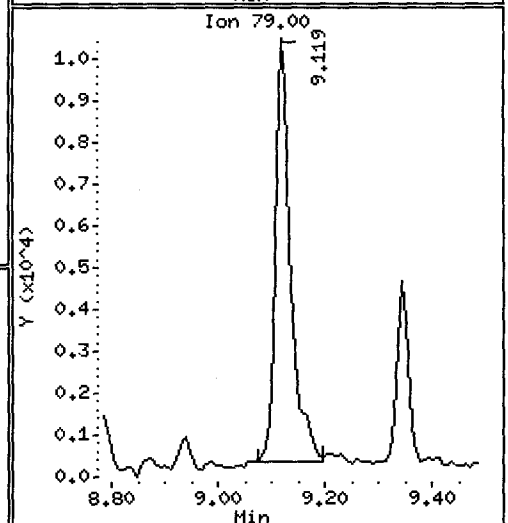
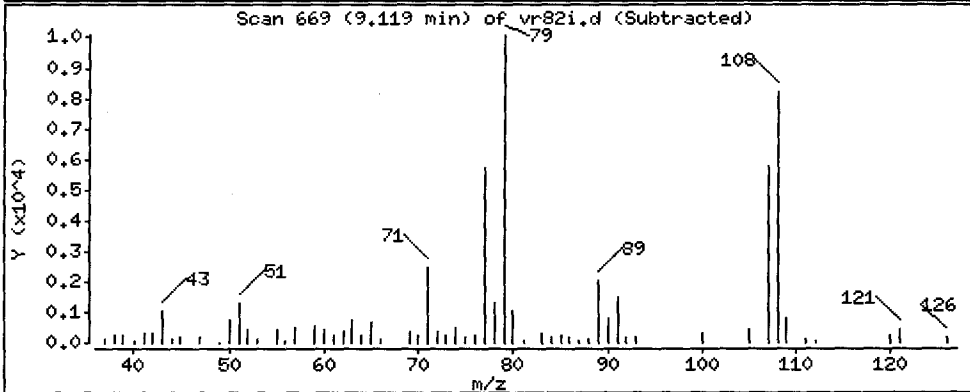
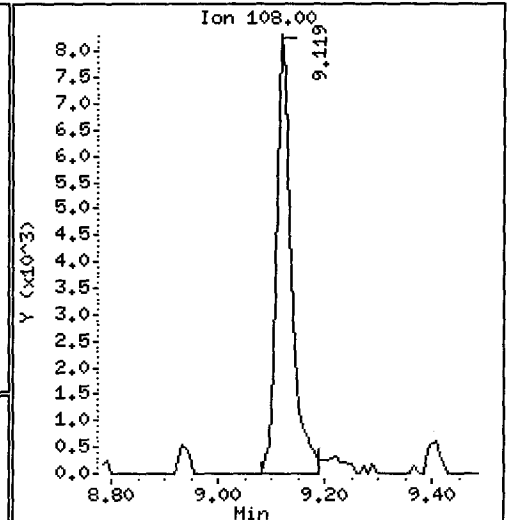
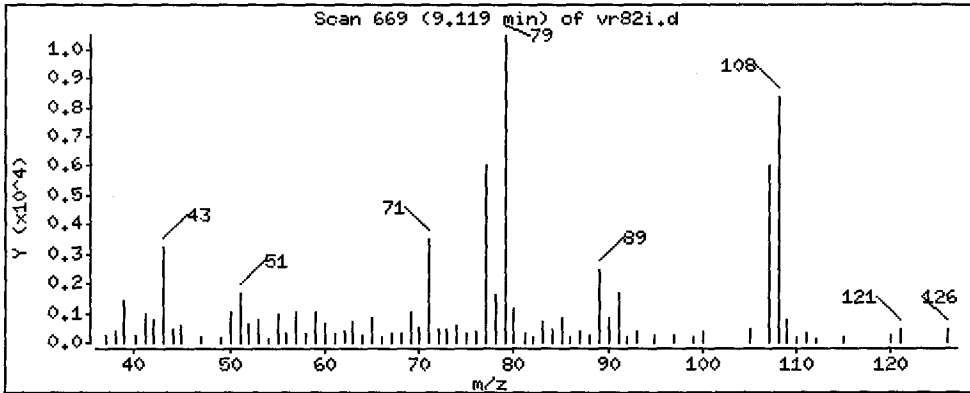
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 108.0 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

Operator: VTS/YZ

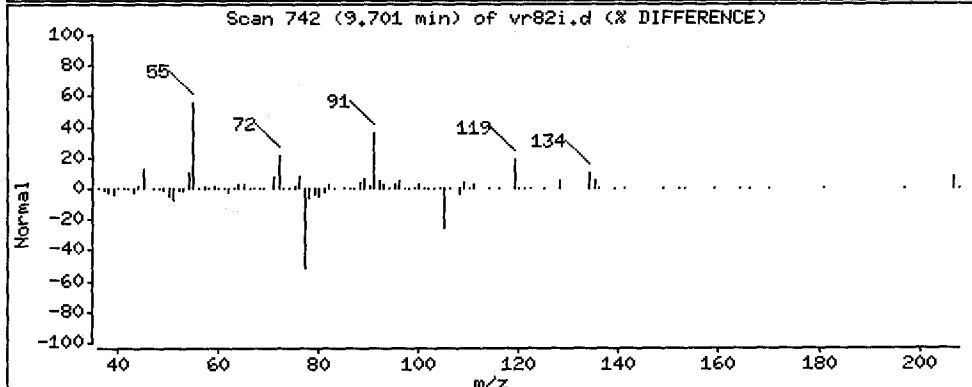
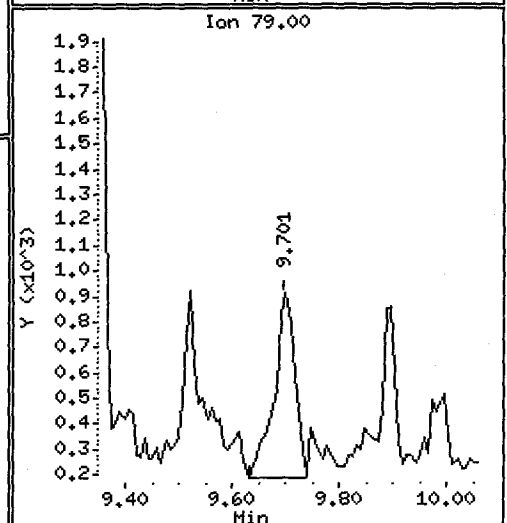
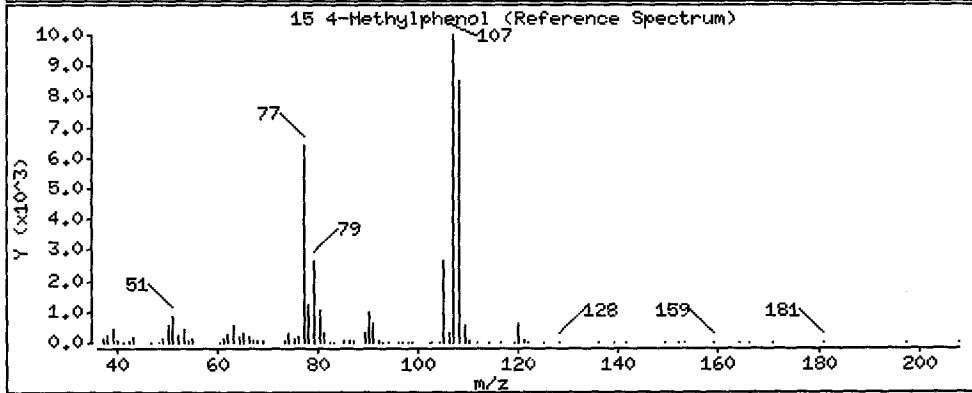
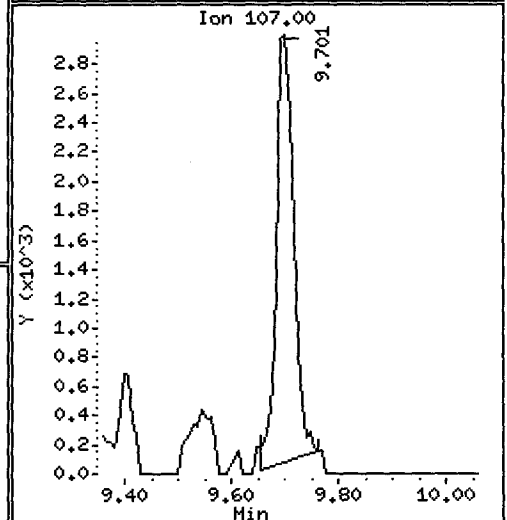
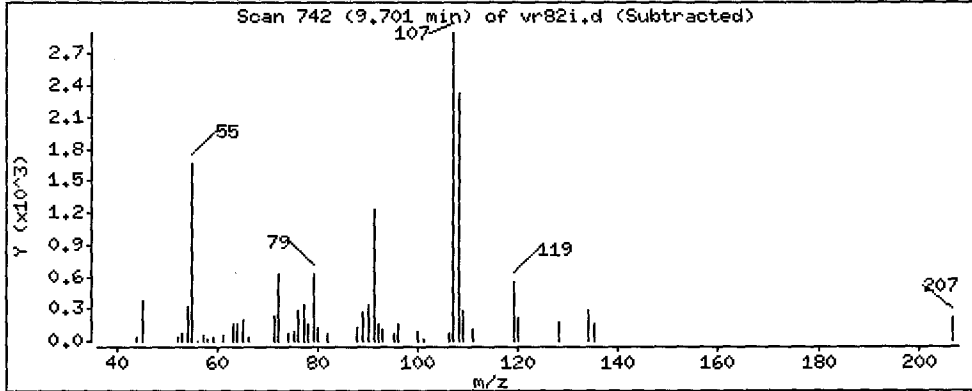
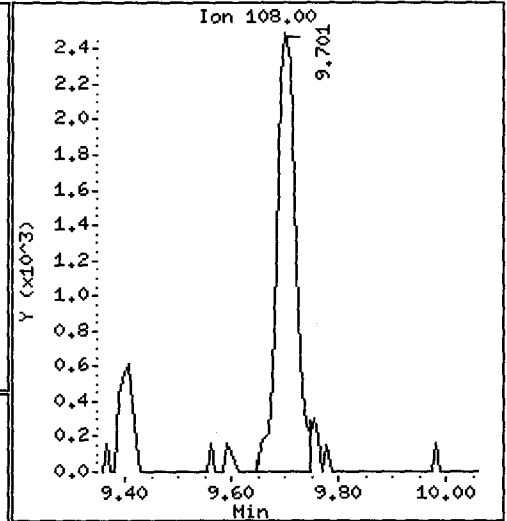
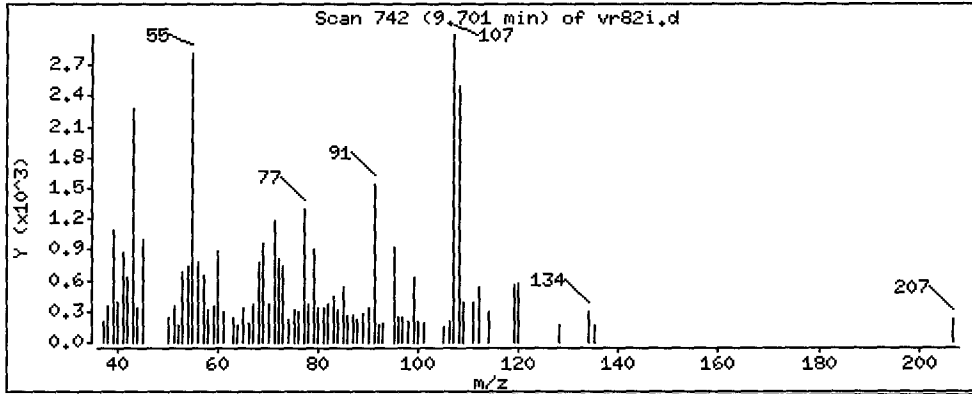
Column phase: ZB-5msi

Column diameter: 0.25

YZ

15 4-Methylphenol

Concentration: 36.34 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

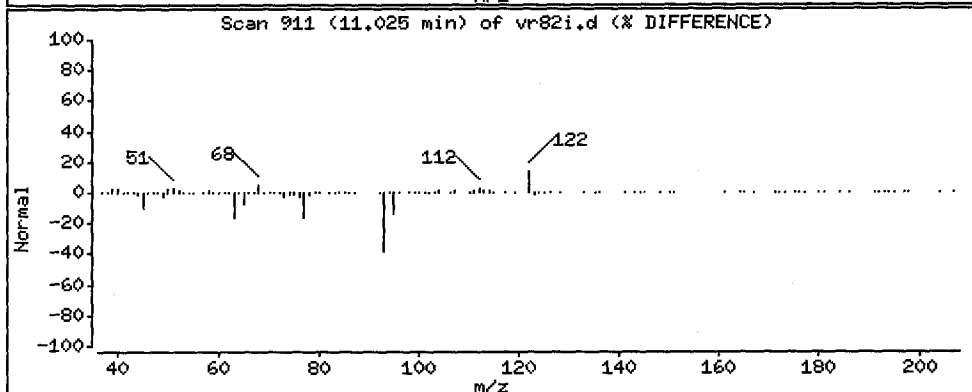
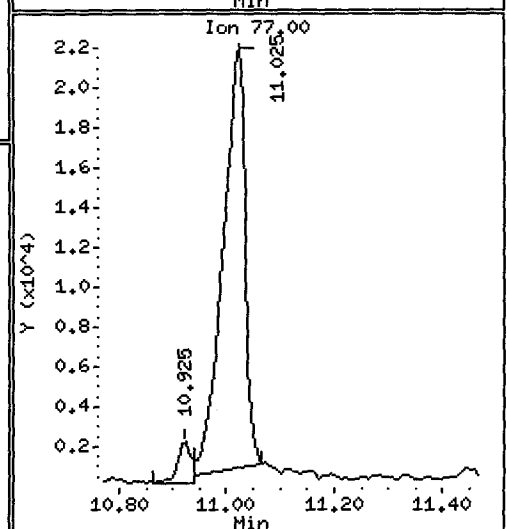
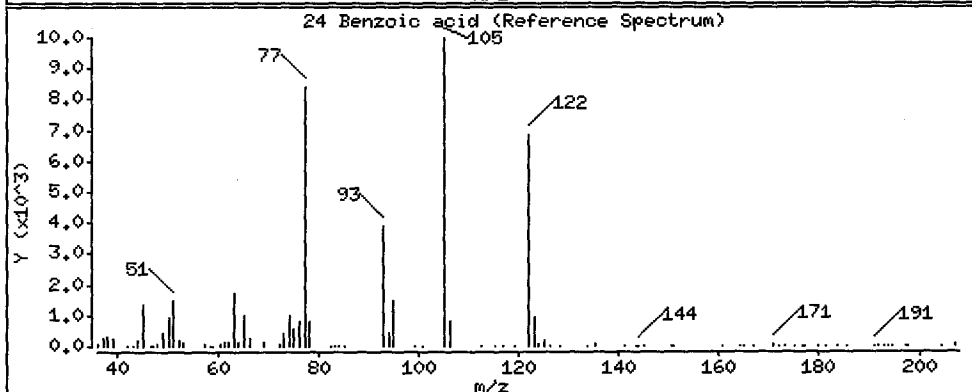
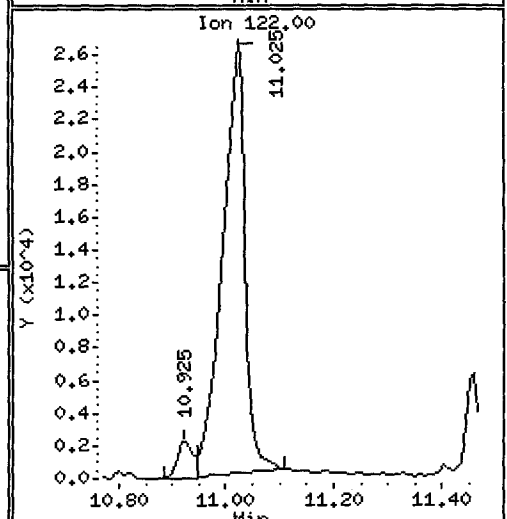
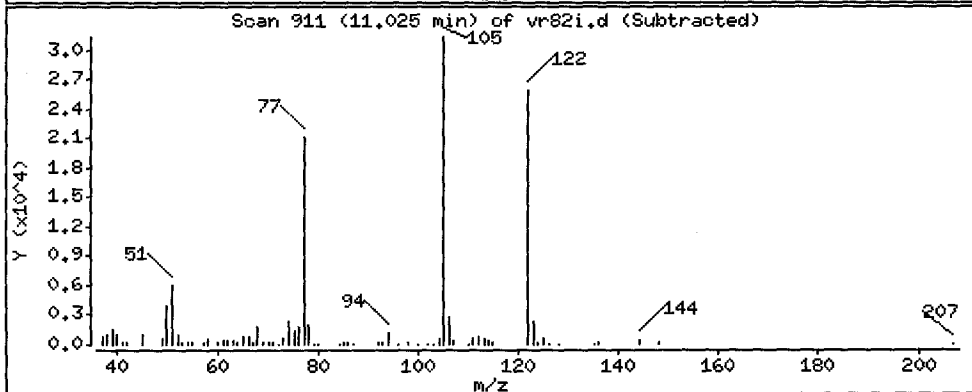
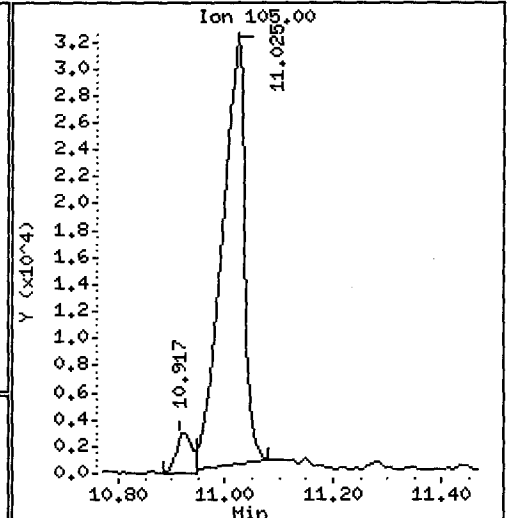
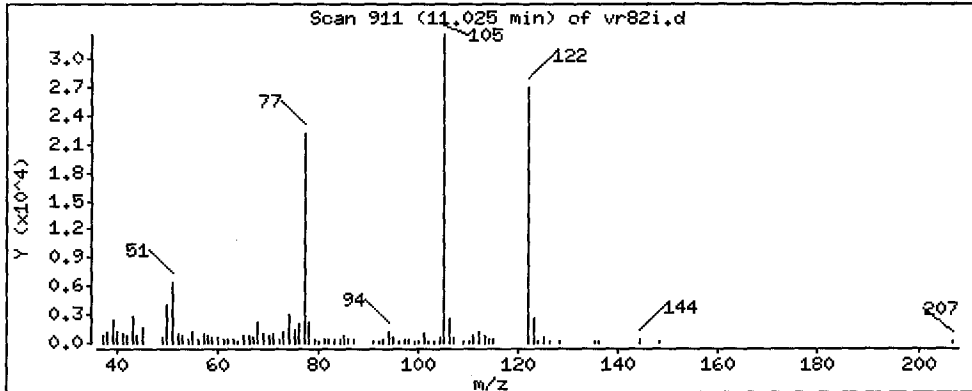
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 513.3 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

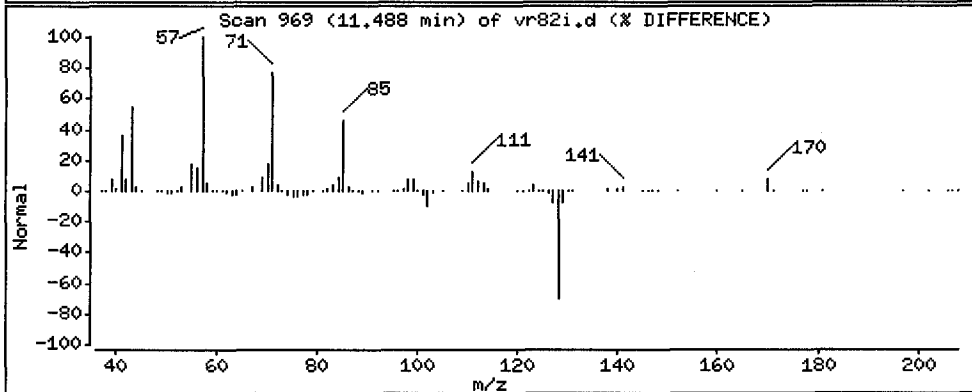
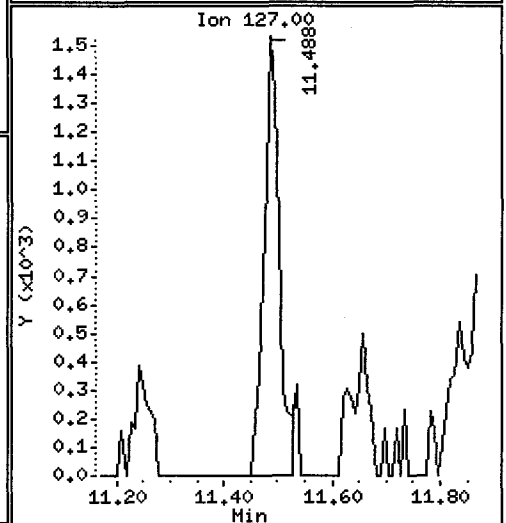
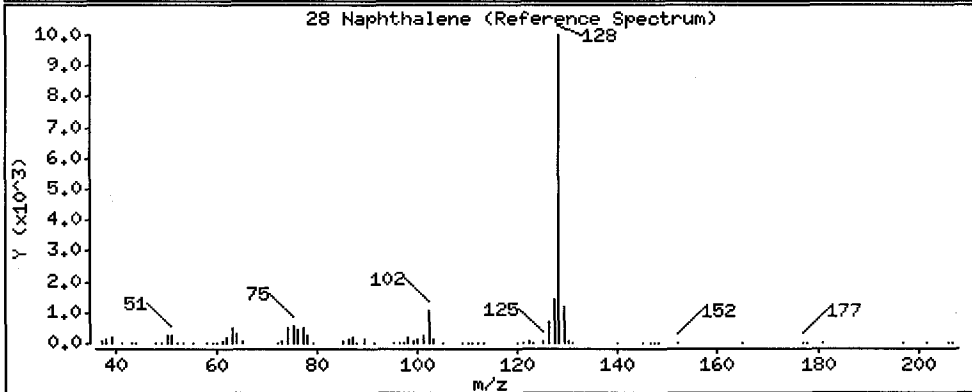
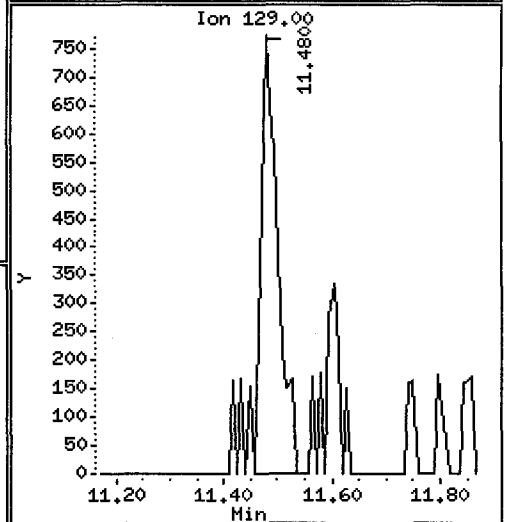
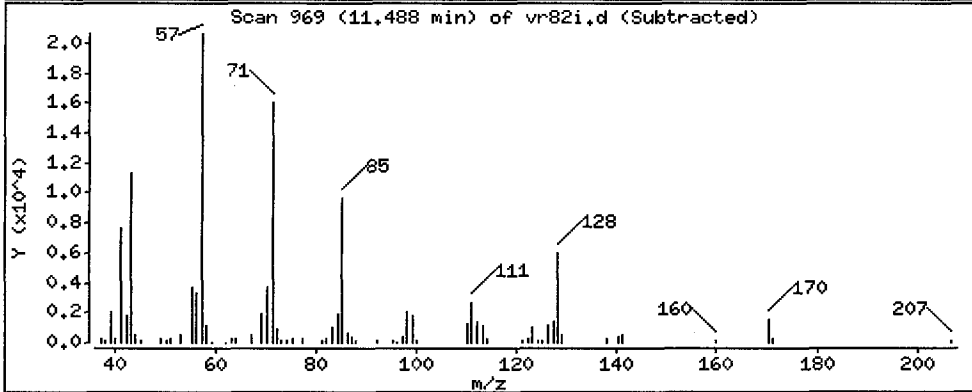
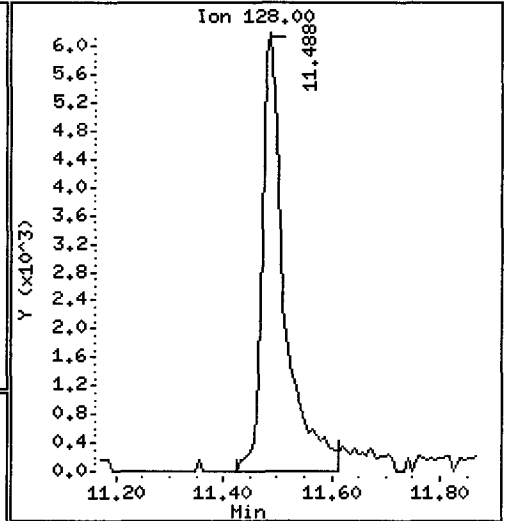
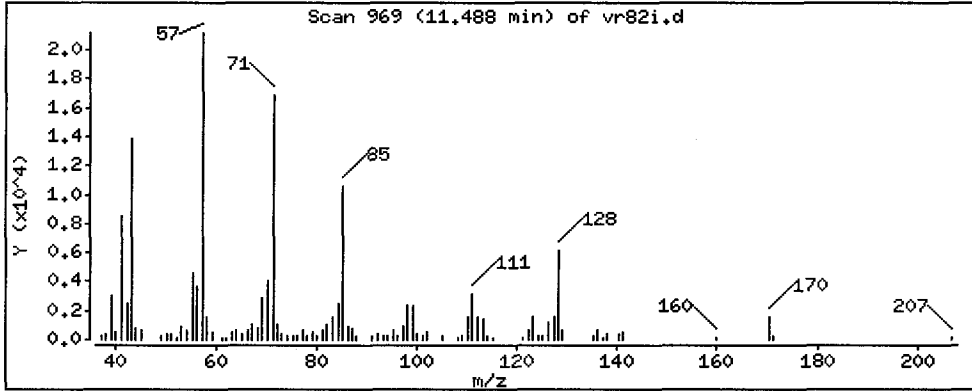
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 23.50 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

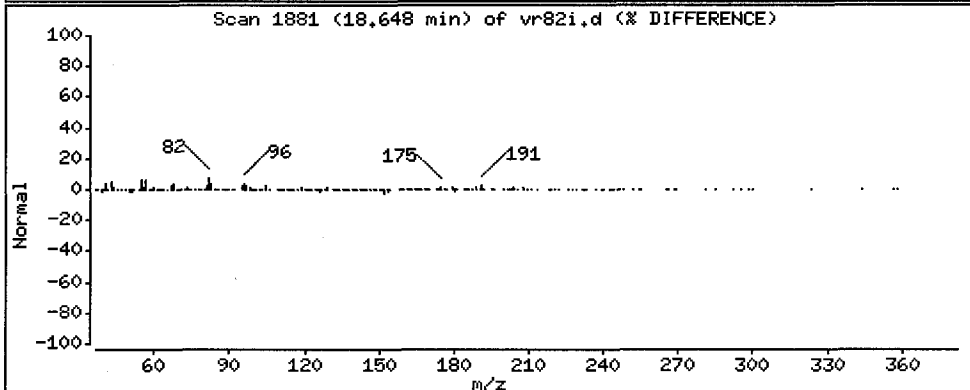
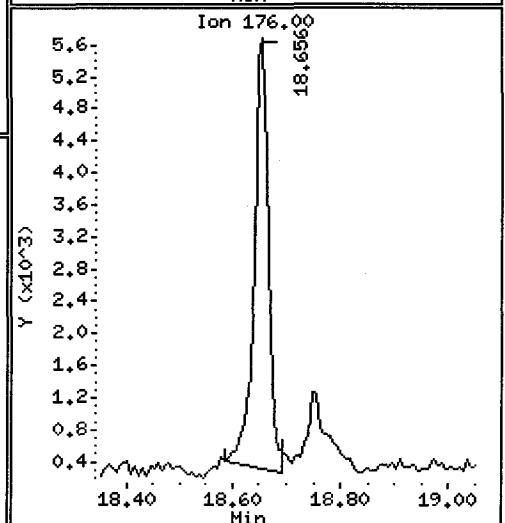
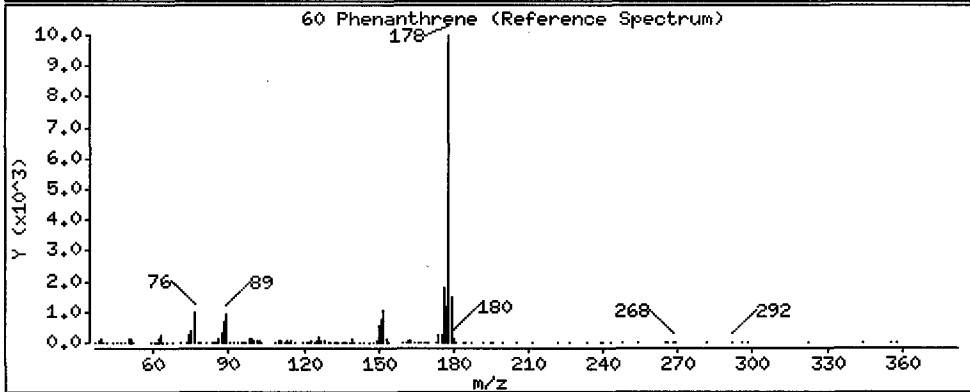
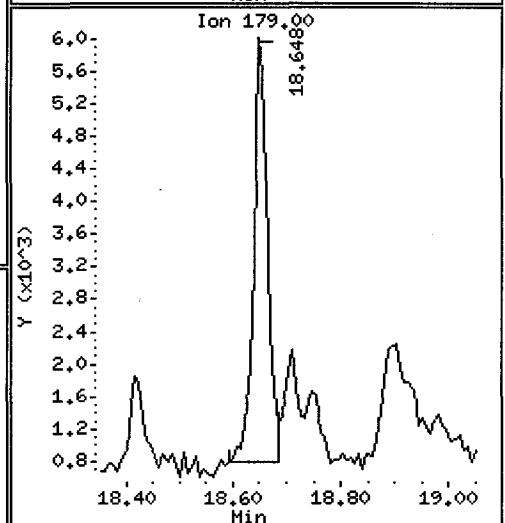
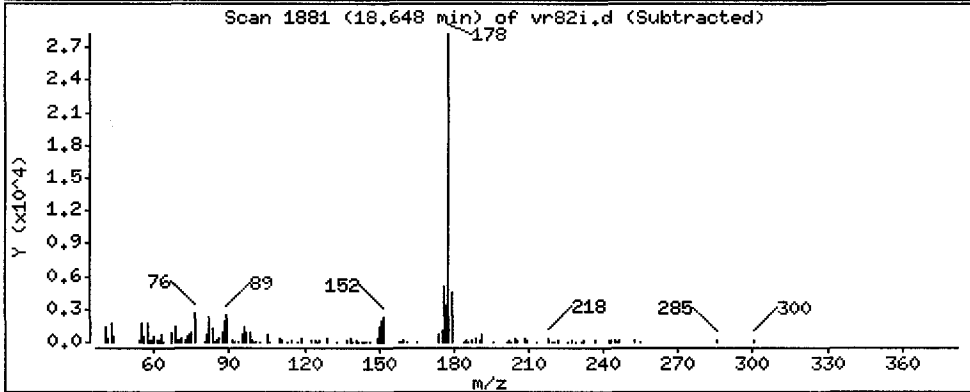
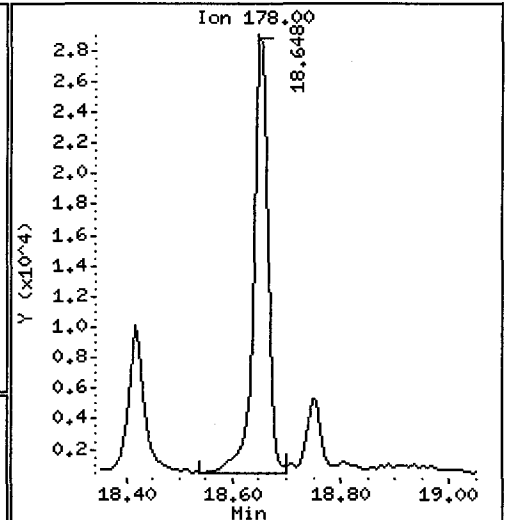
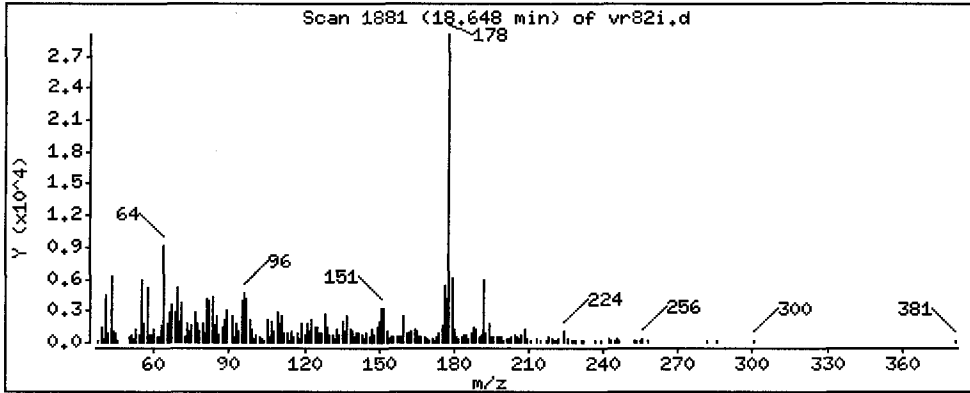
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 59.17 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

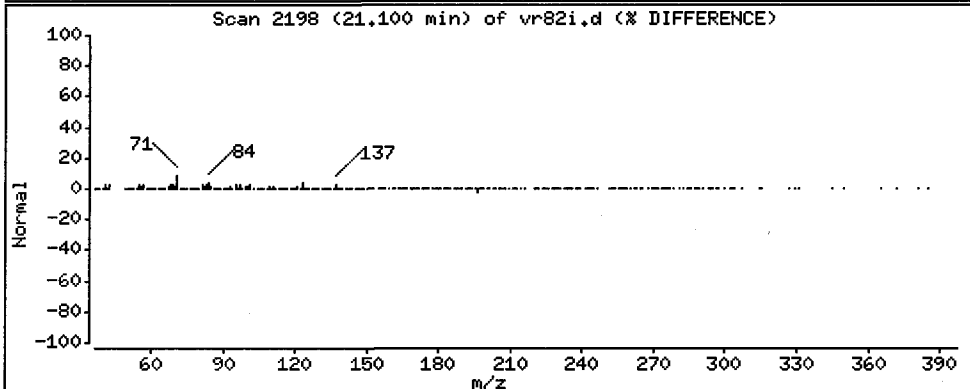
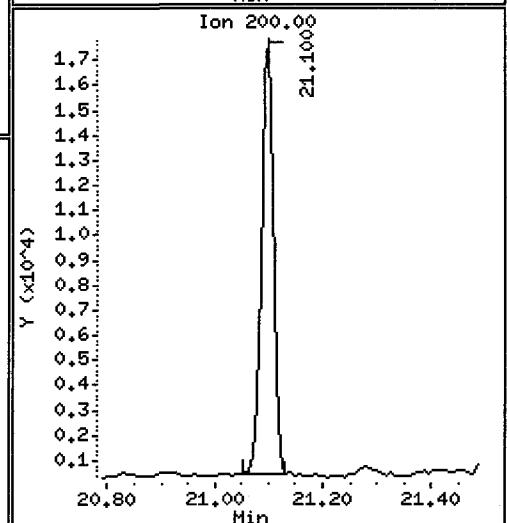
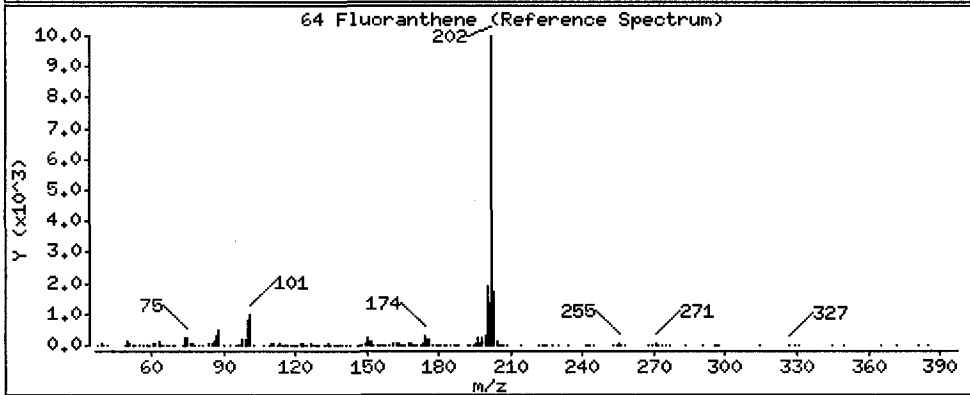
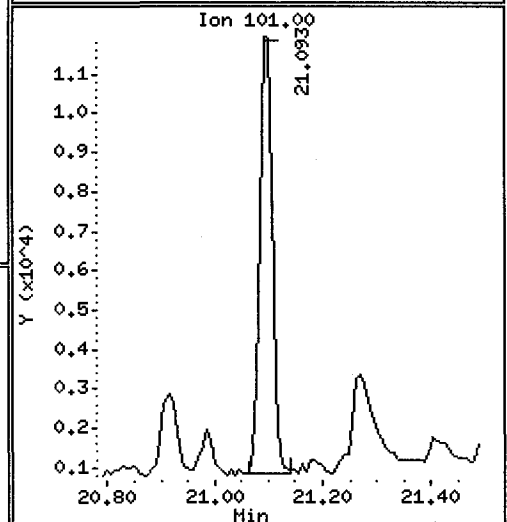
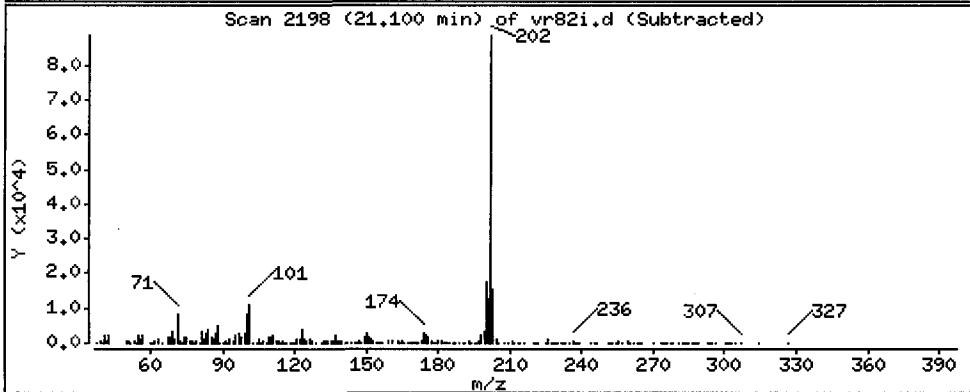
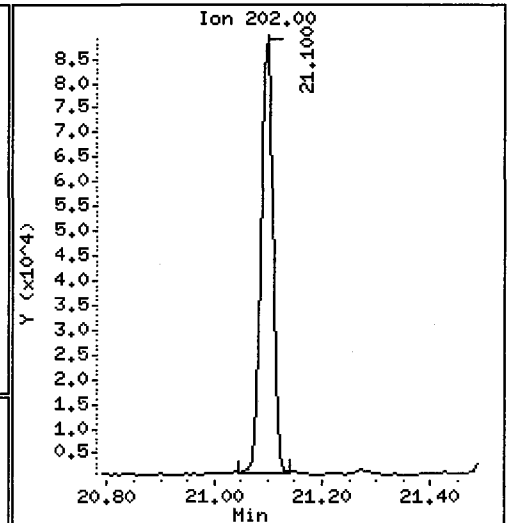
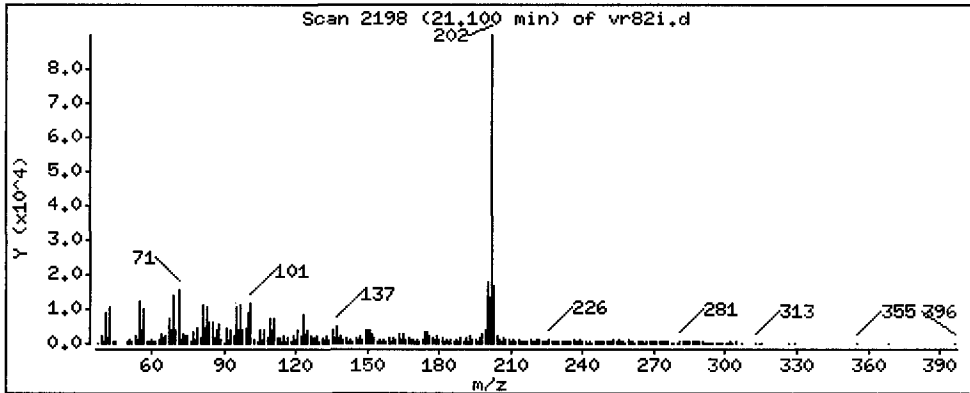
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 121.9 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

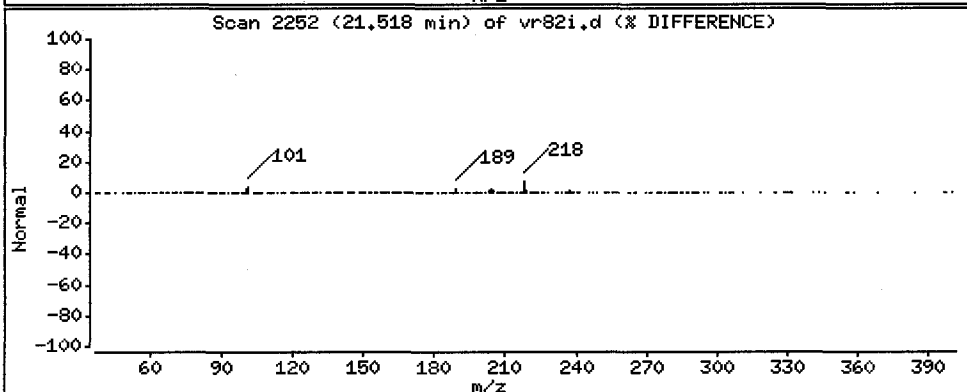
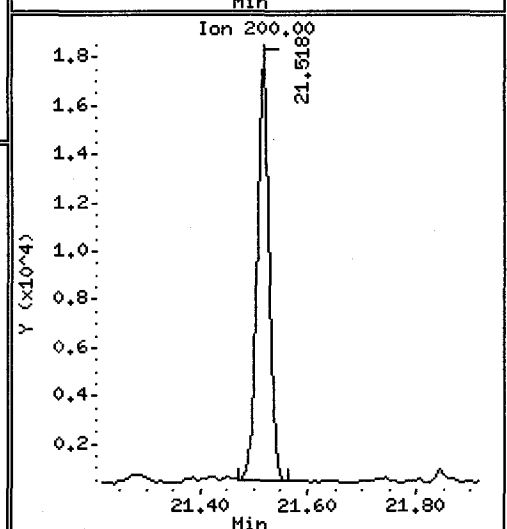
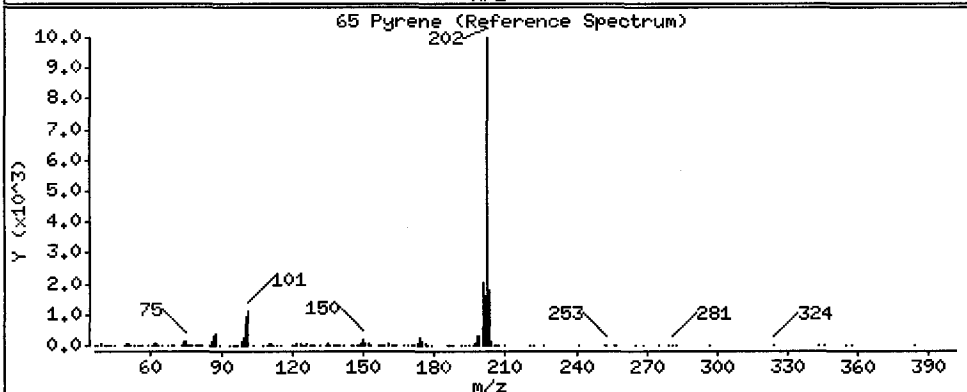
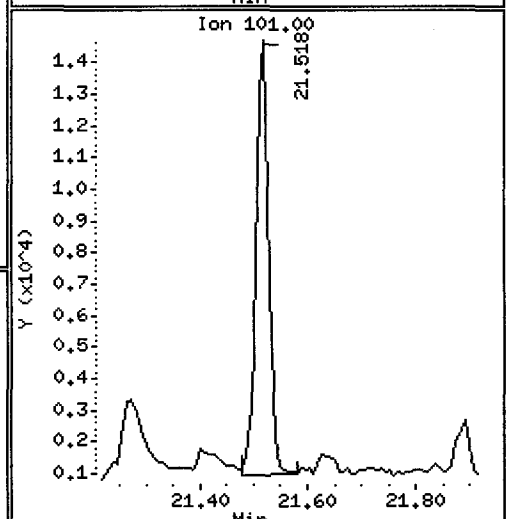
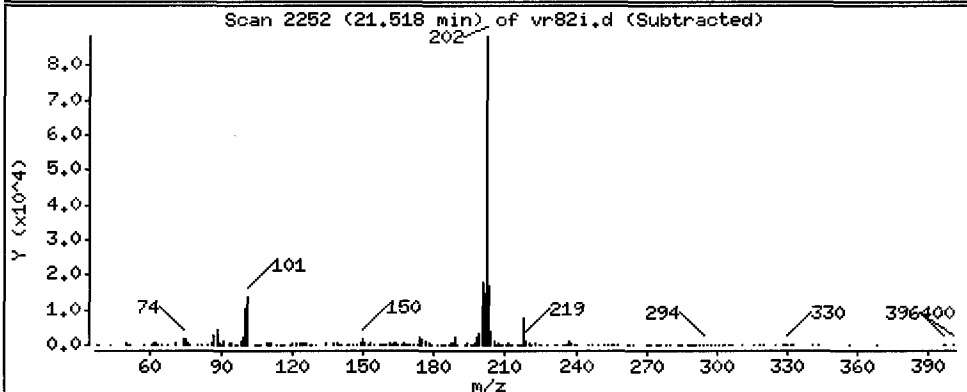
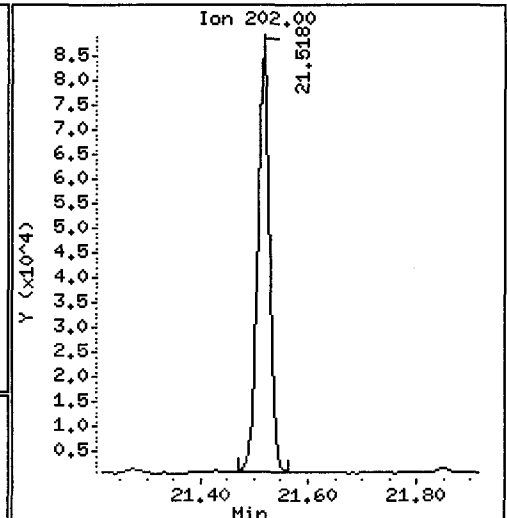
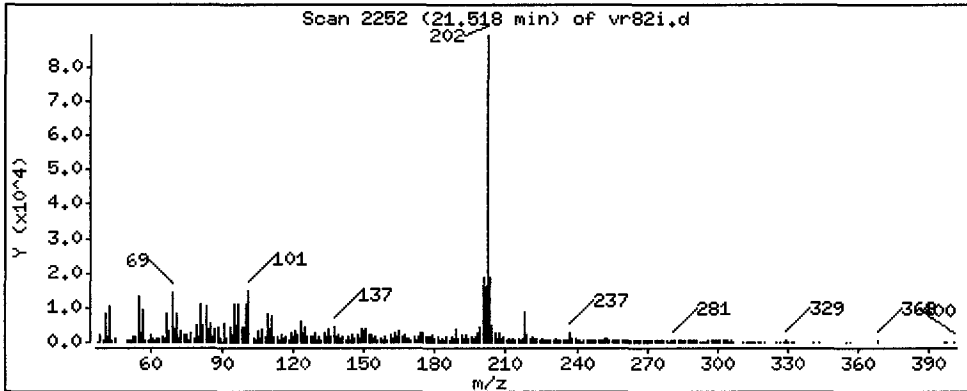
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 114.7 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

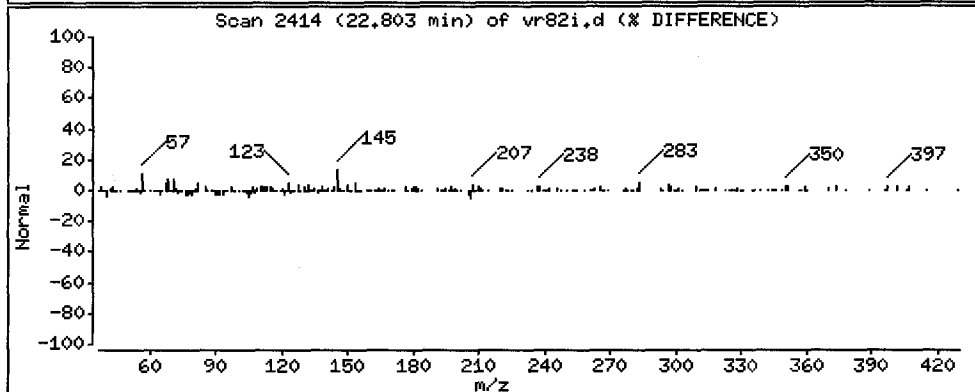
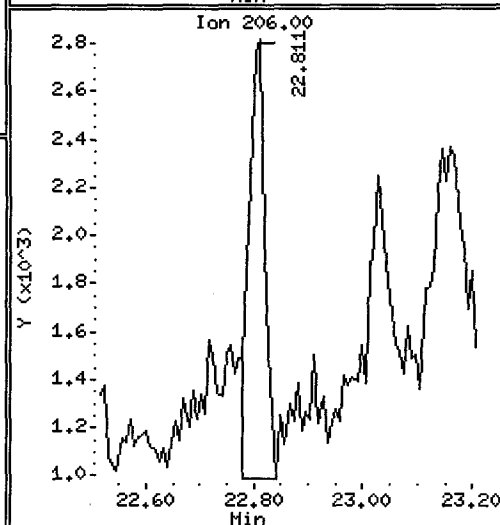
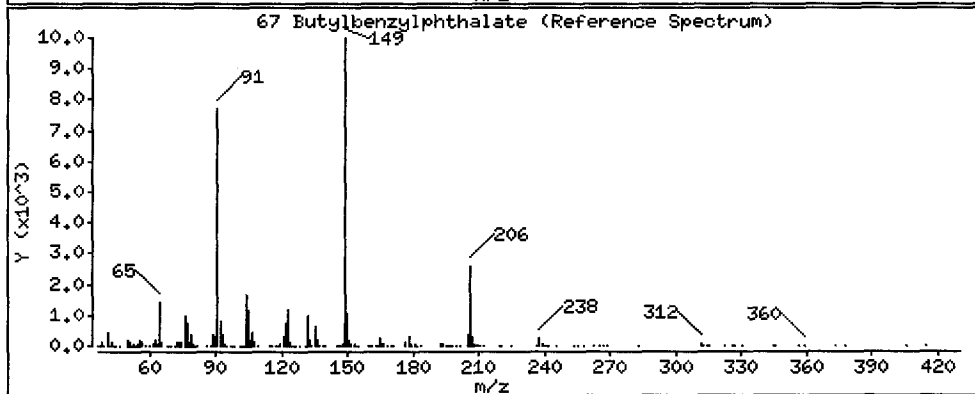
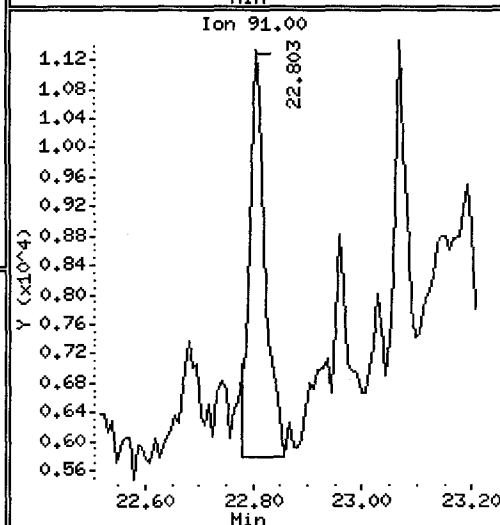
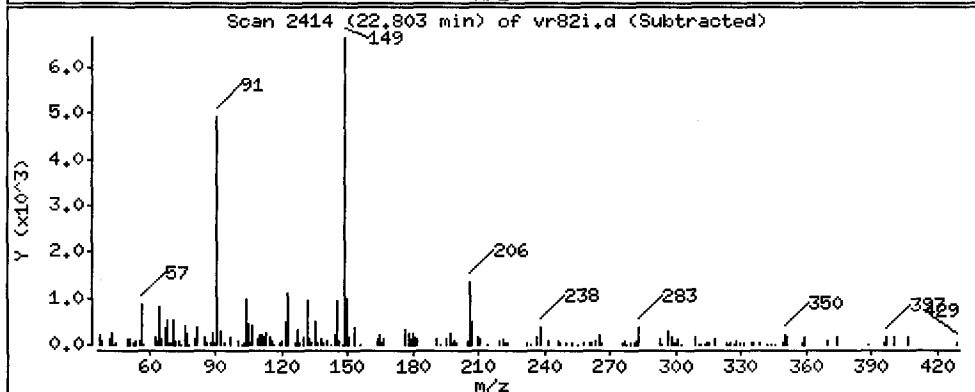
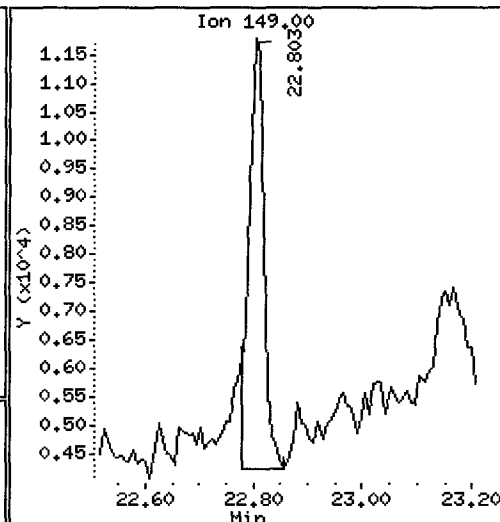
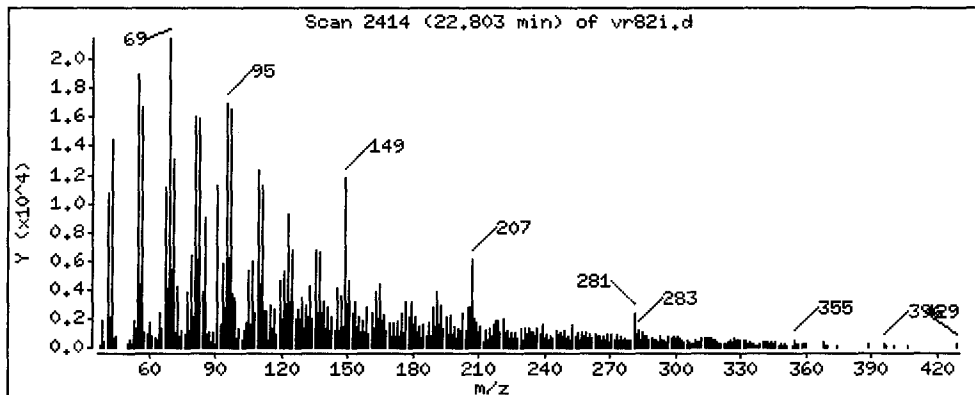
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 29.53 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

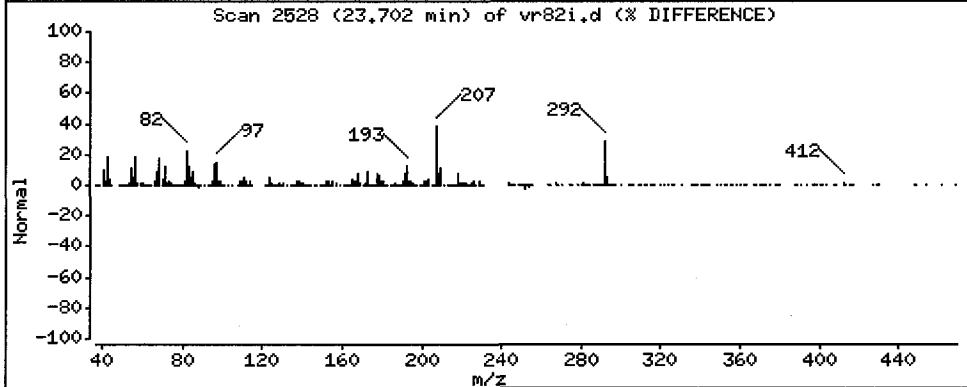
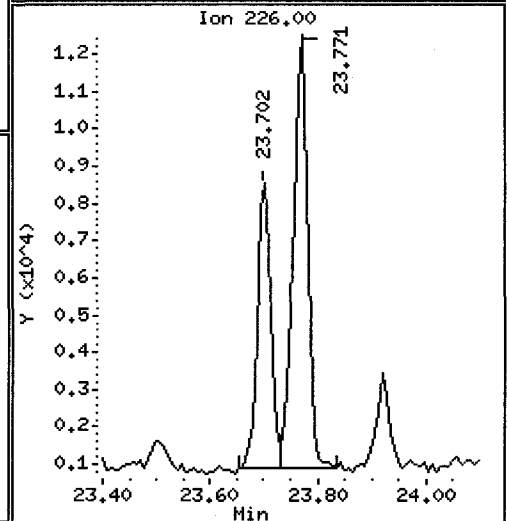
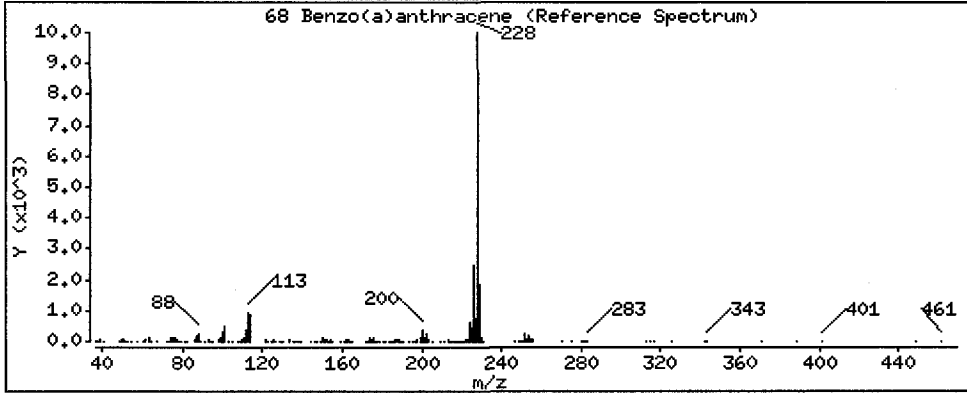
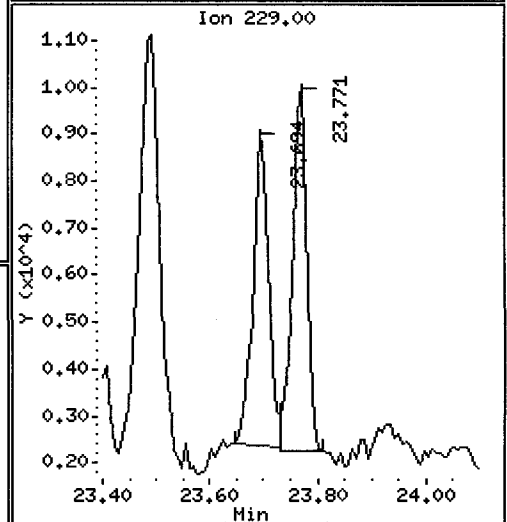
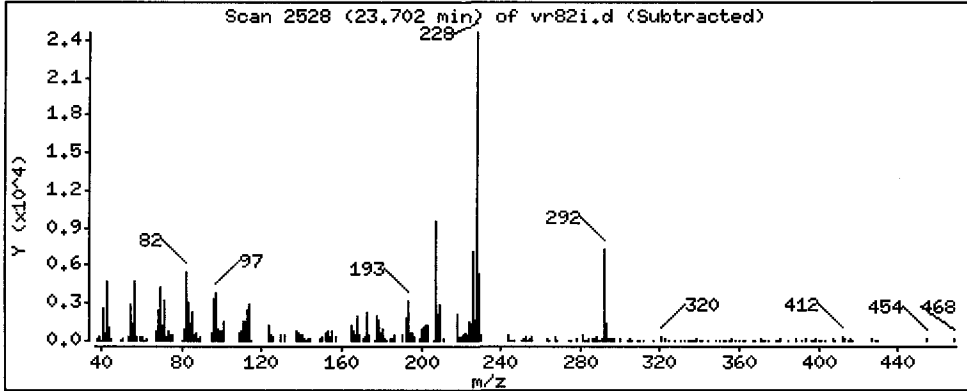
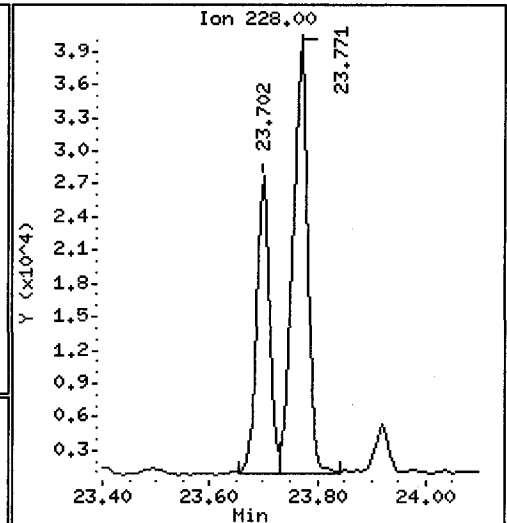
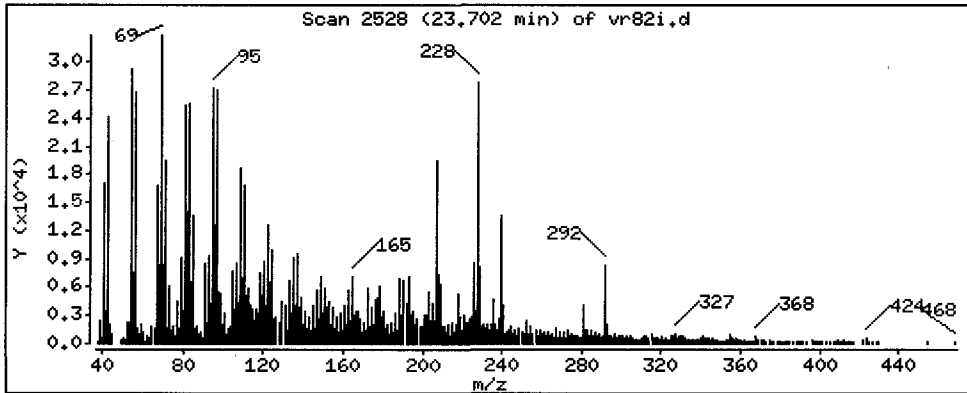
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 40.63 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

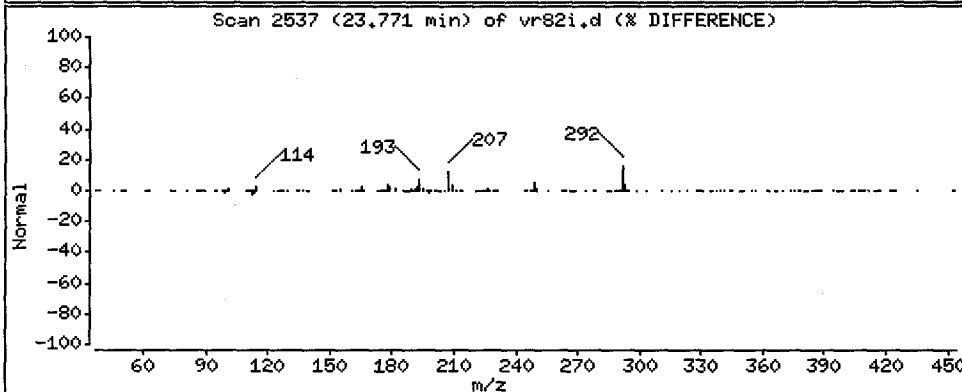
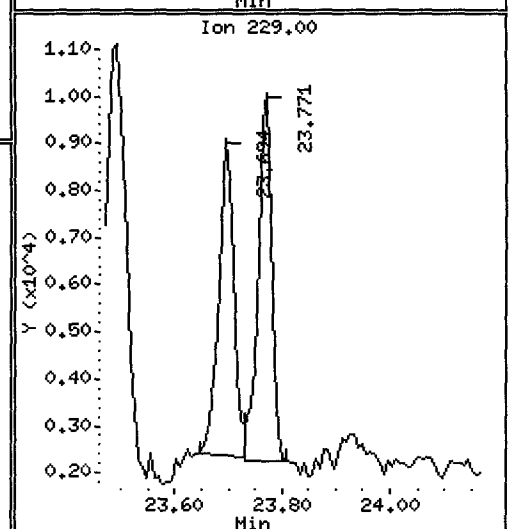
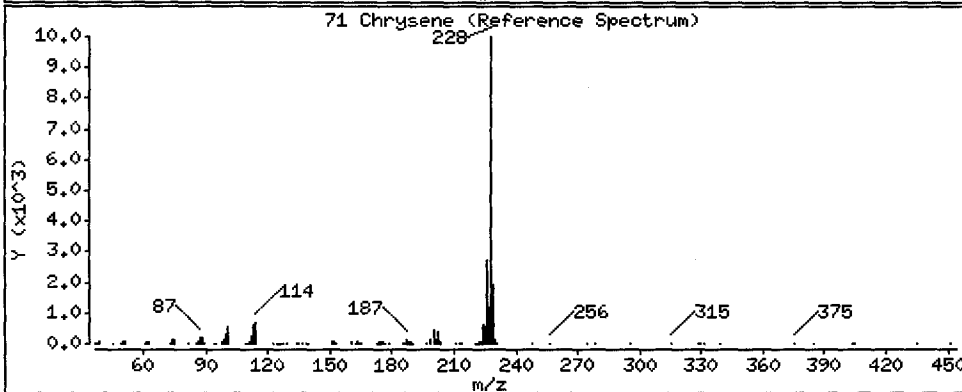
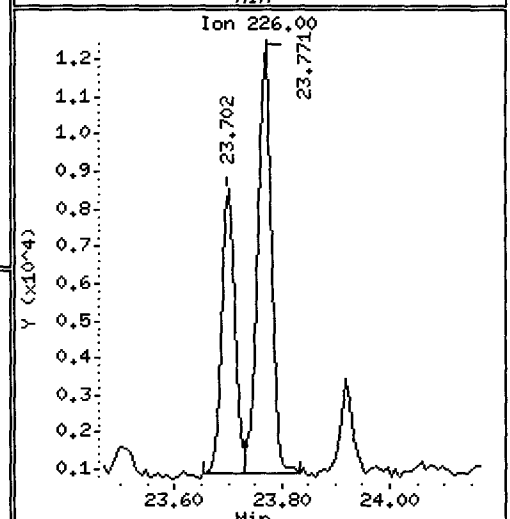
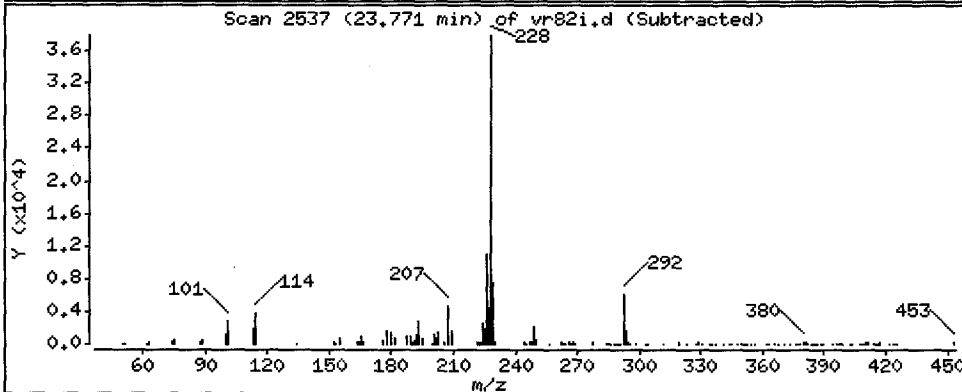
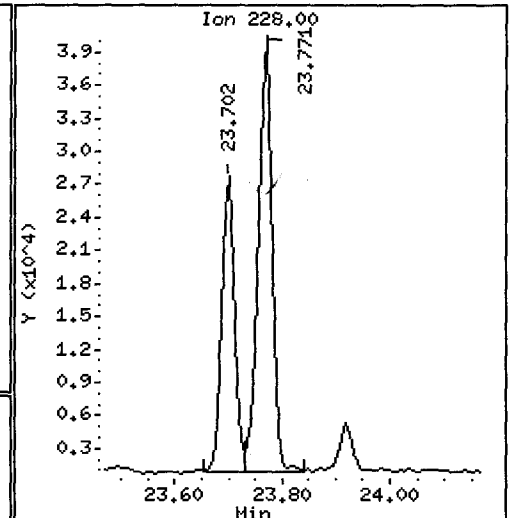
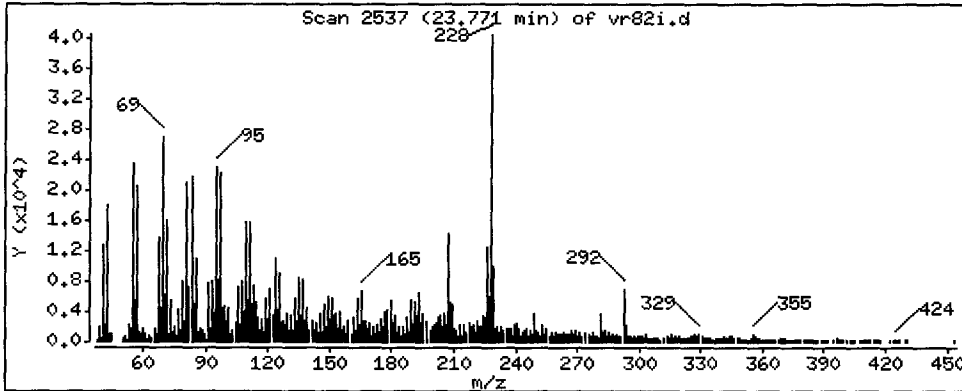
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 71.10 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

Operator: VTS/YZ

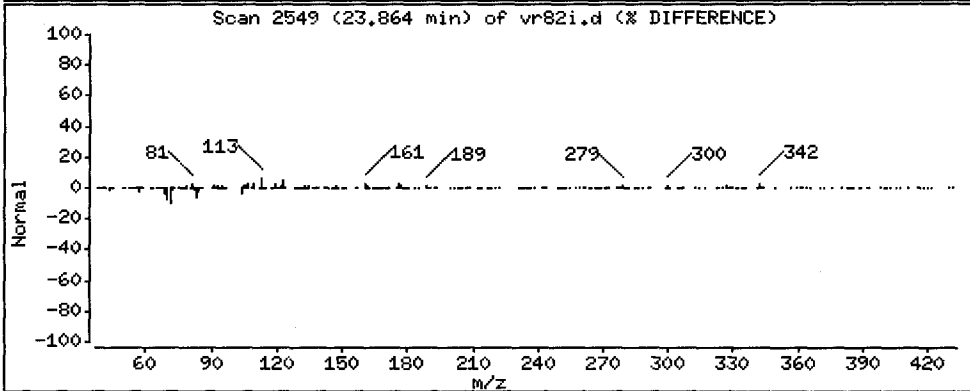
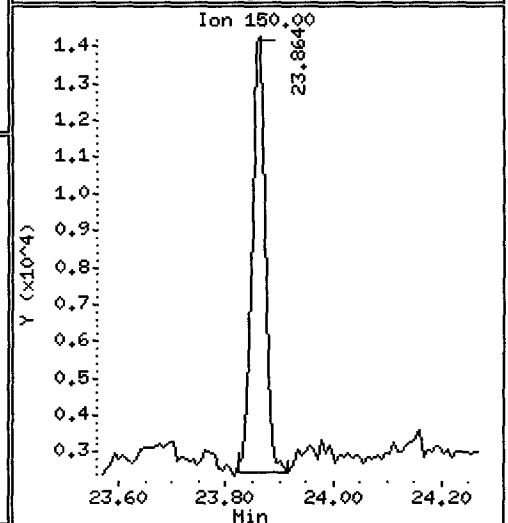
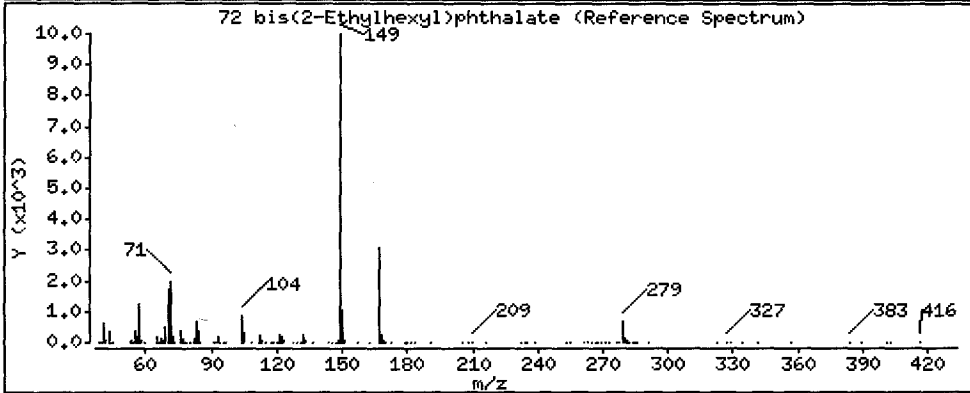
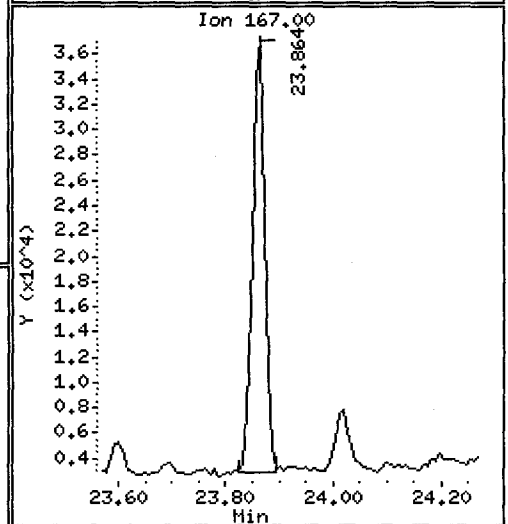
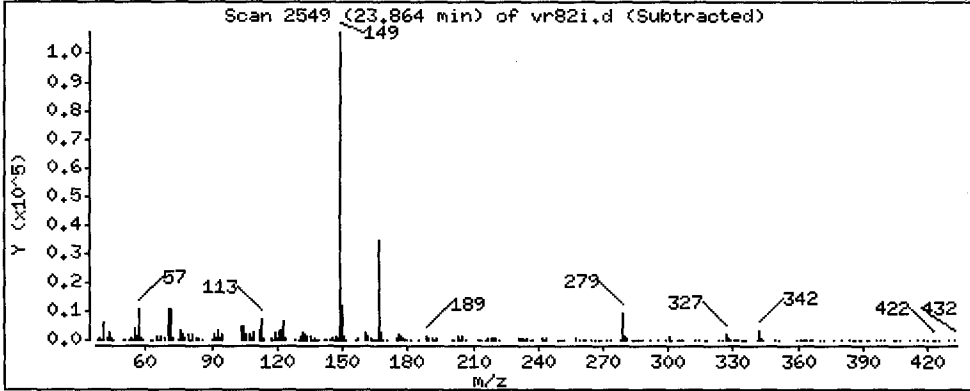
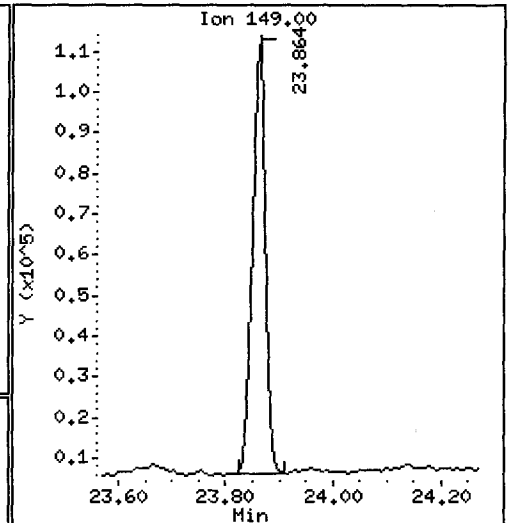
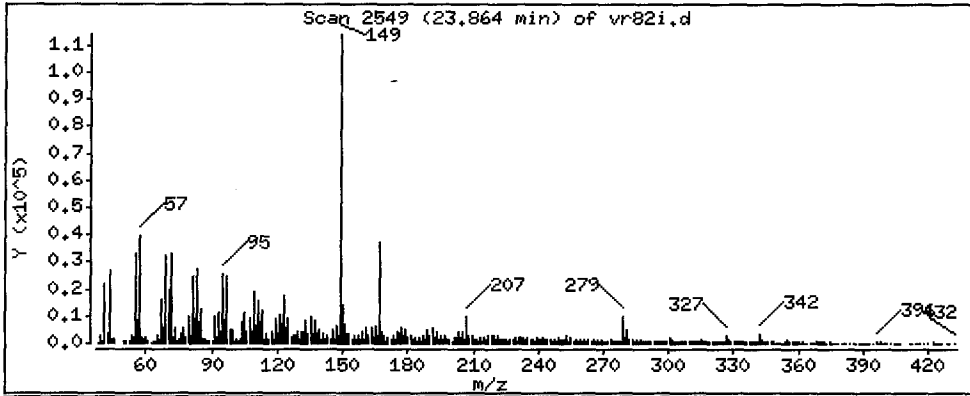
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 240.9 ug/kg

B



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

Operator: VTS/YZ

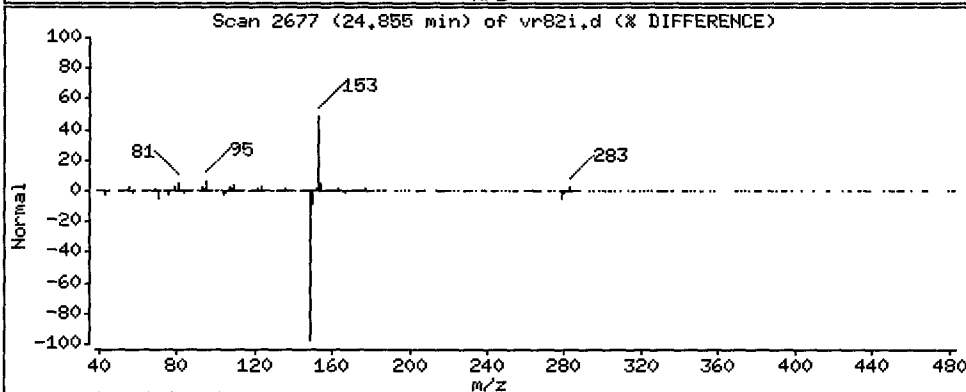
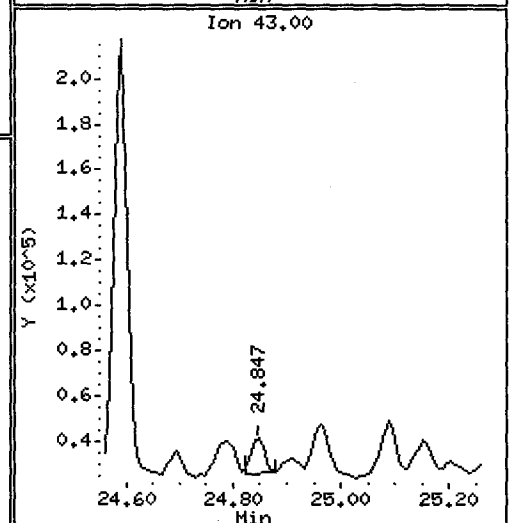
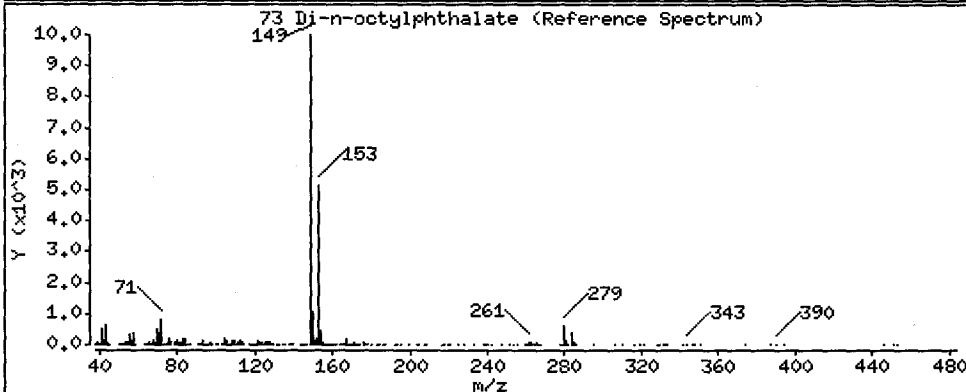
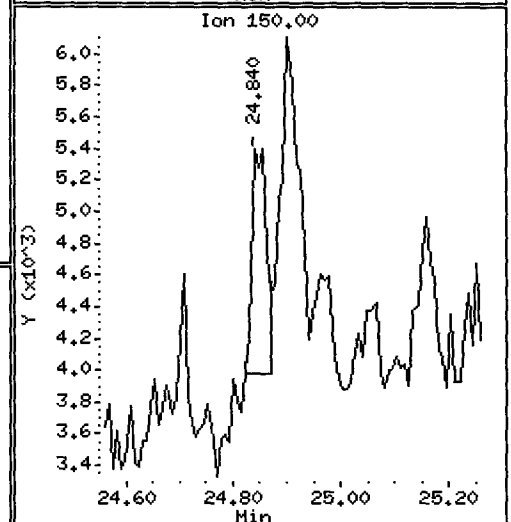
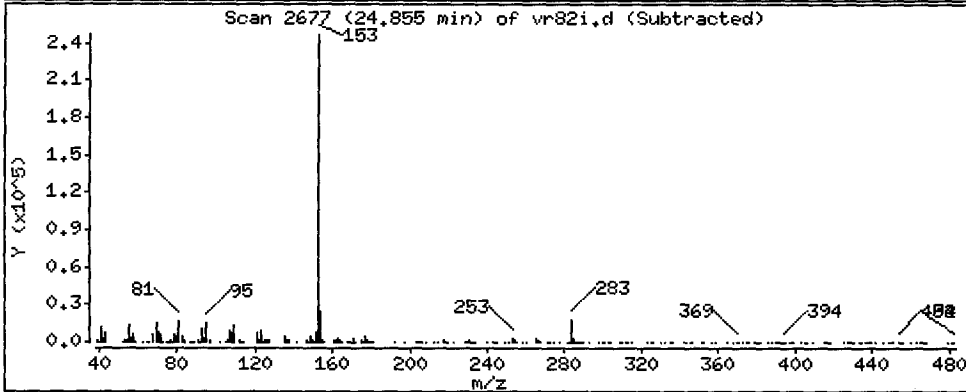
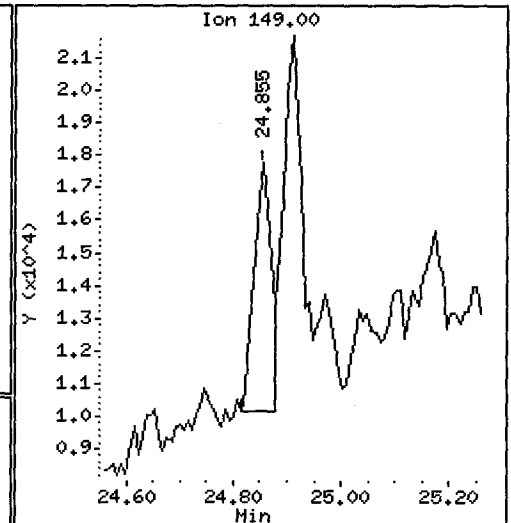
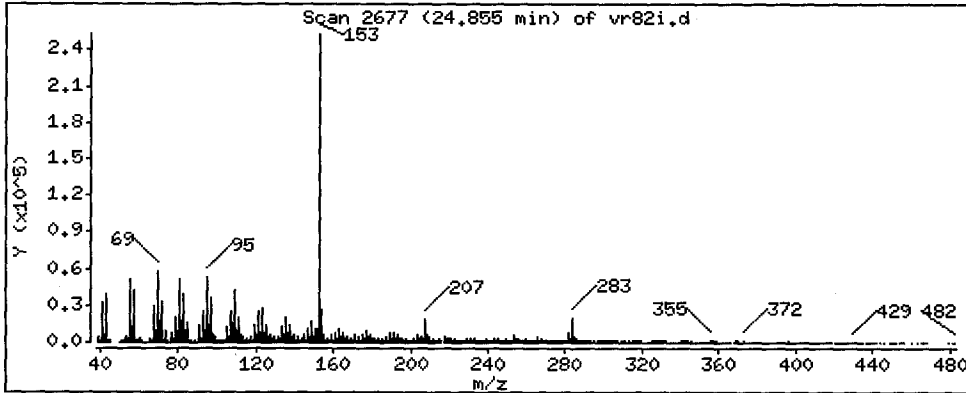
Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 14.04 ug/kg

NOT REPORTING
LAC
12/6/12



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

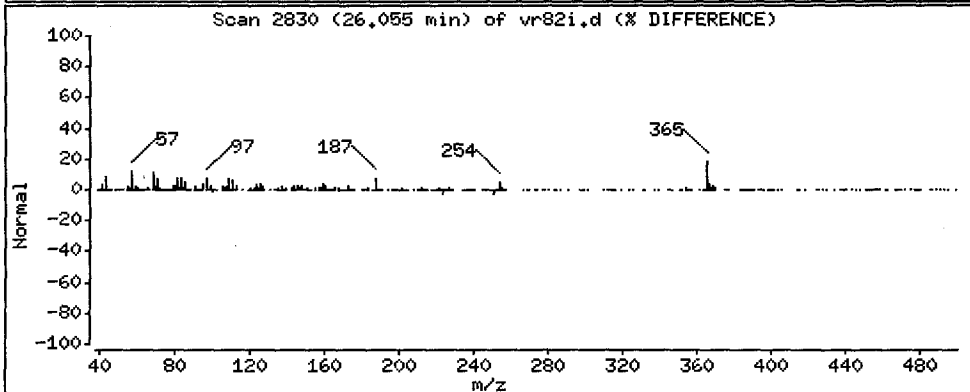
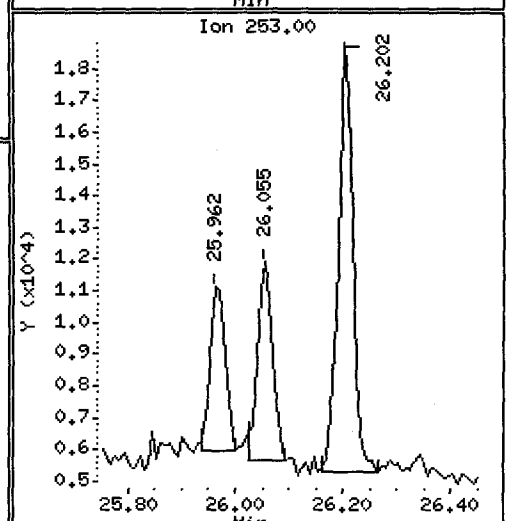
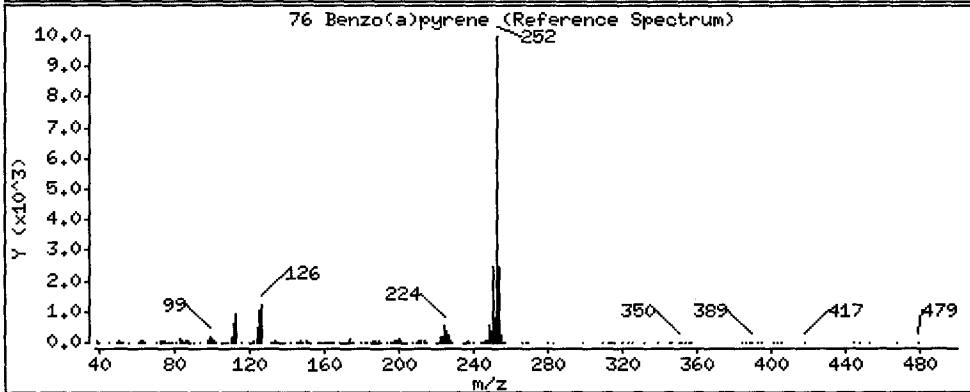
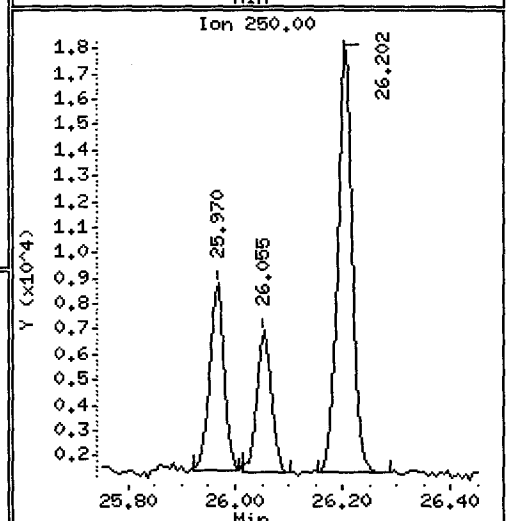
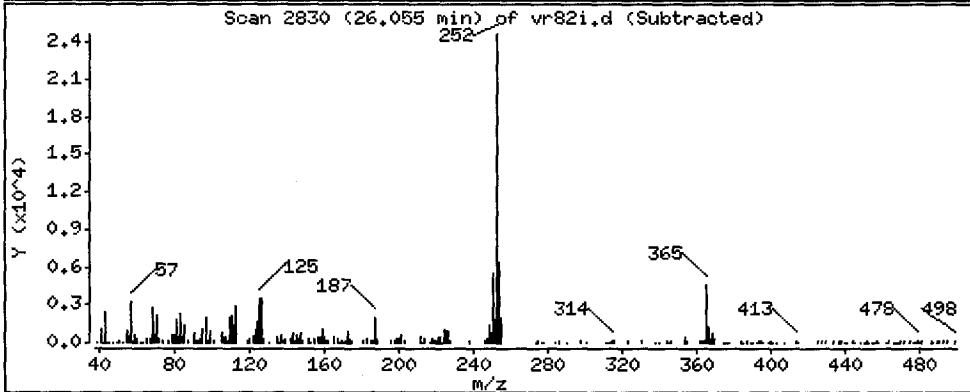
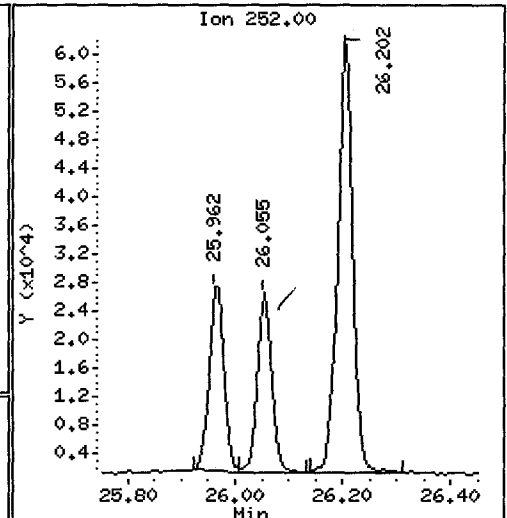
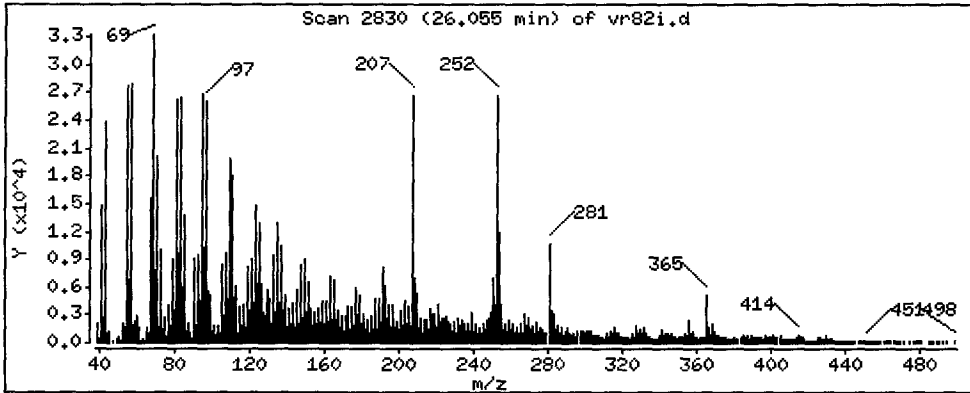
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 45.28 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

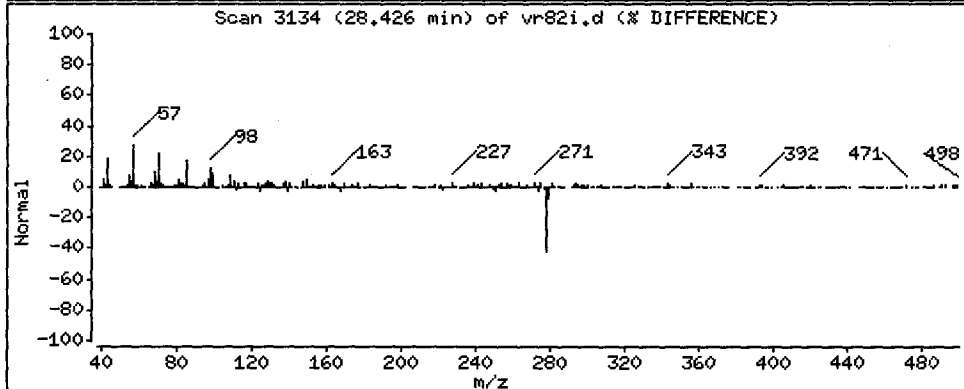
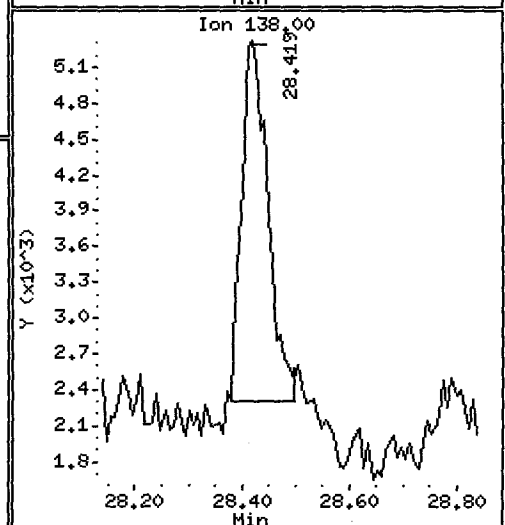
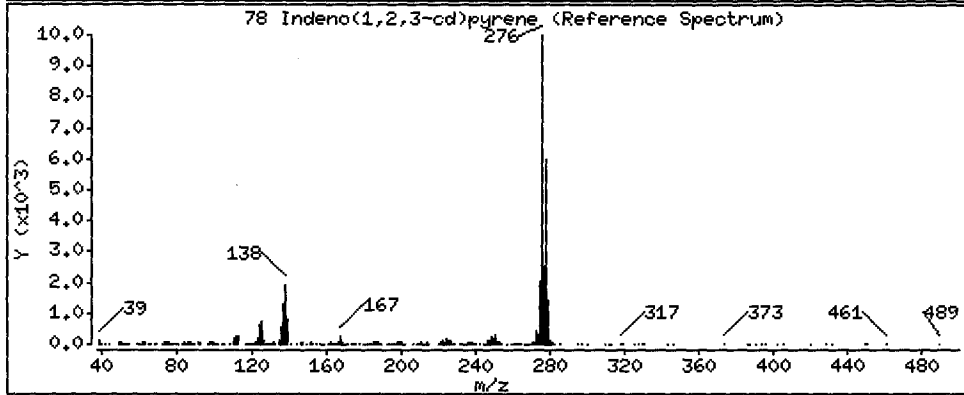
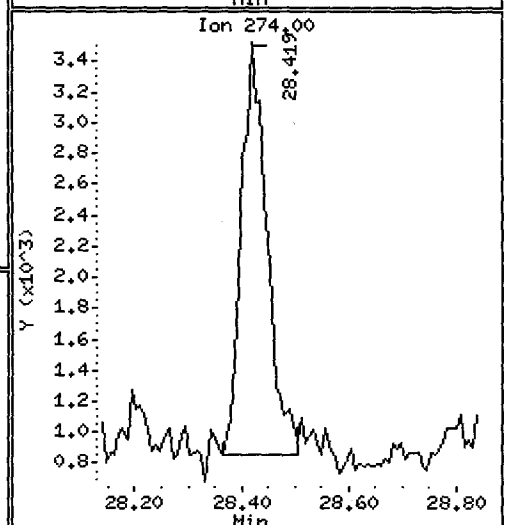
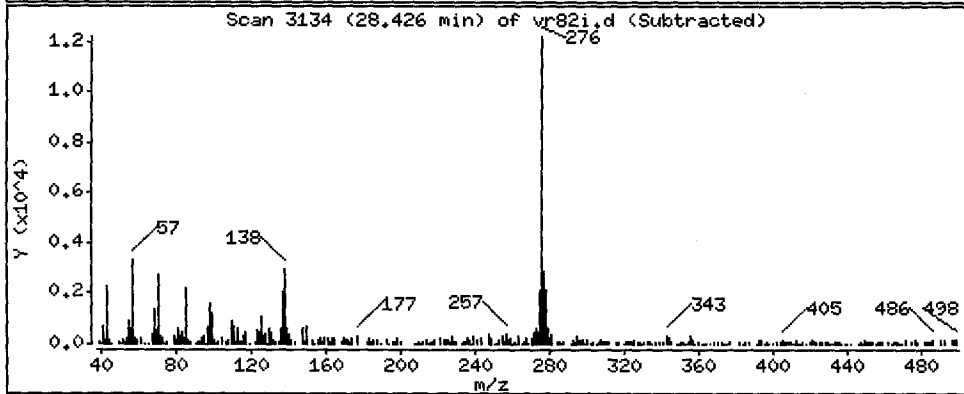
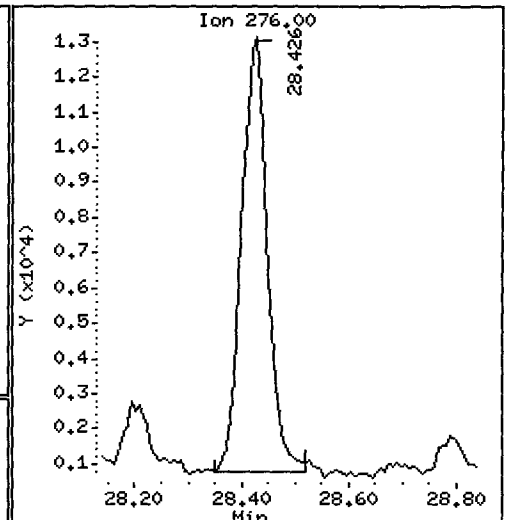
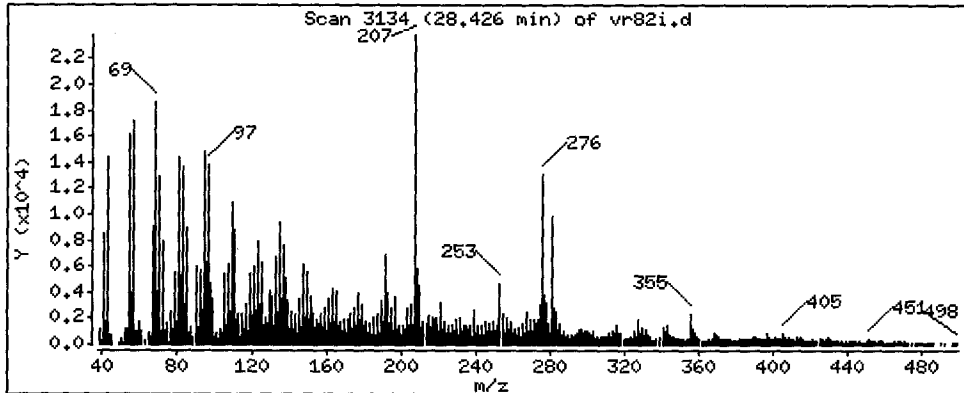
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 33.59 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SC-09-S-C-121108

Instrument: nt10.i

Sample Info: VR821

Volume Injected (uL): 1.0

Operator: VTS/YZ

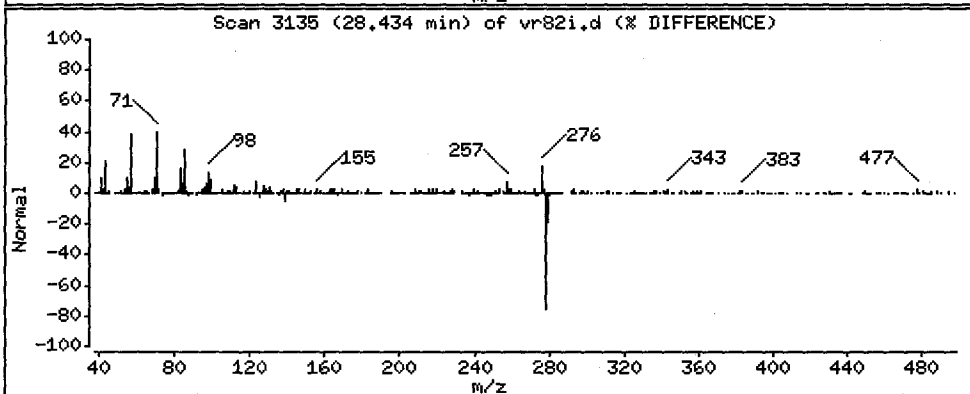
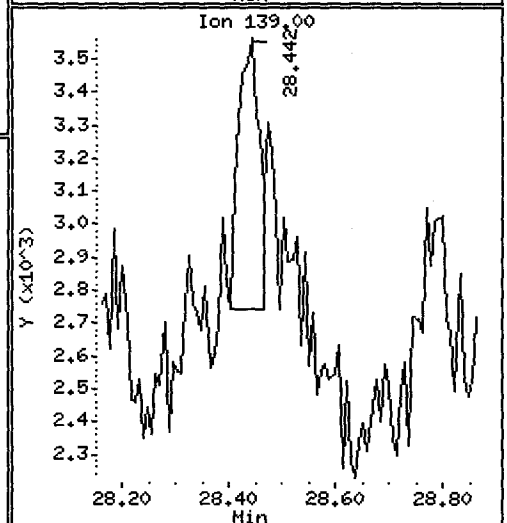
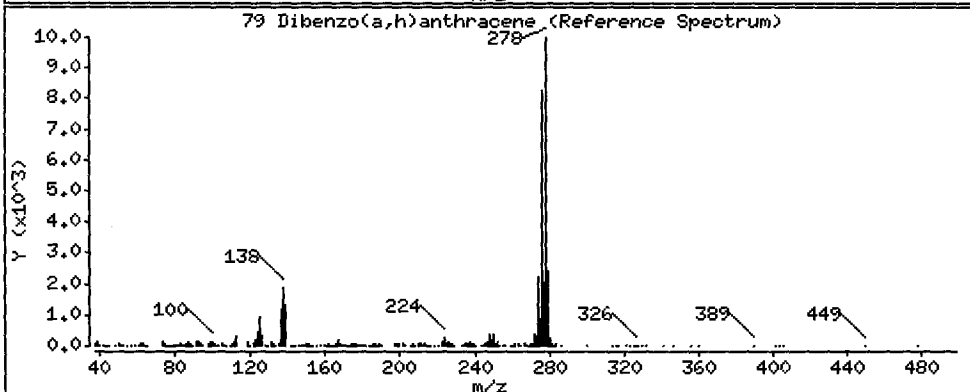
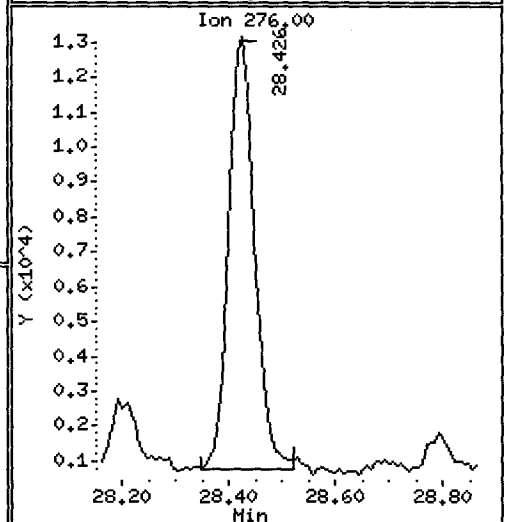
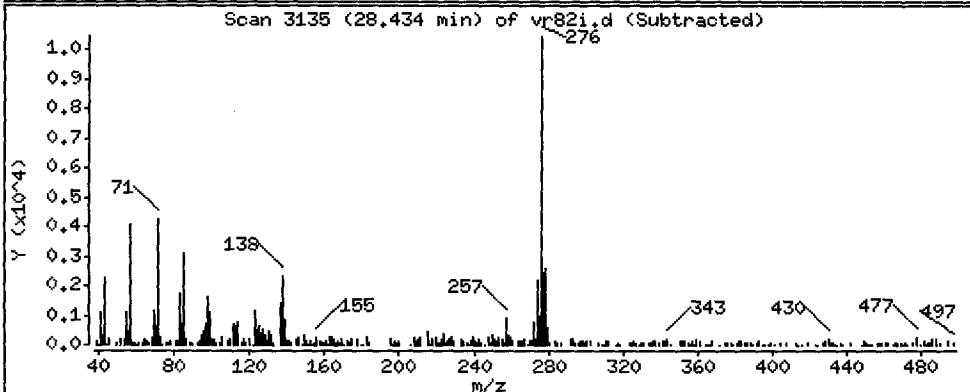
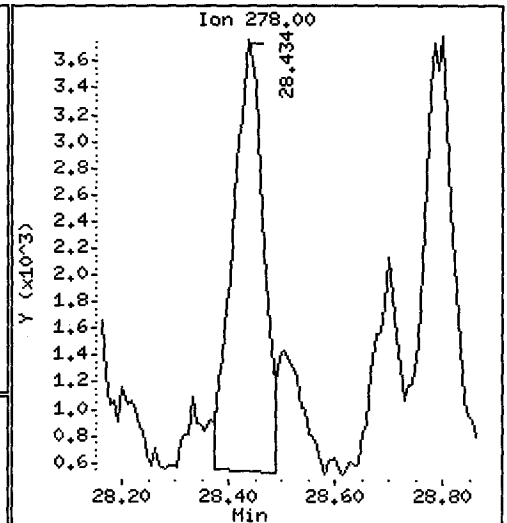
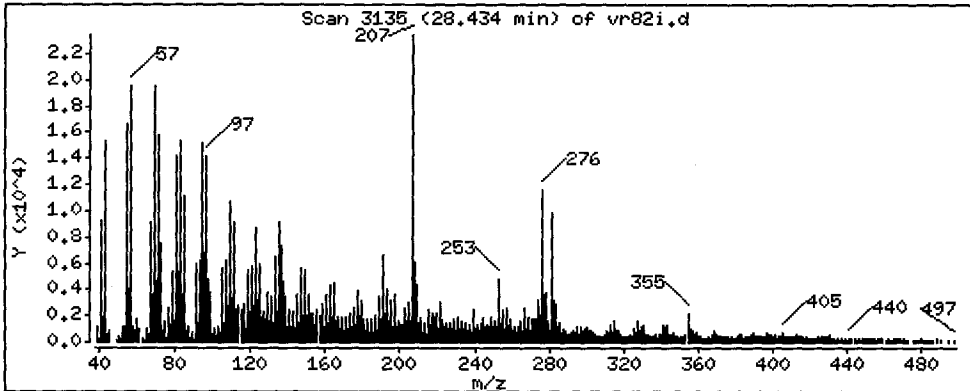
Column phase: ZB-5msi

Column diameter: 0.25

J. C. C.

79 Dibenzo(a,h)anthracene

Concentration: 13.14 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

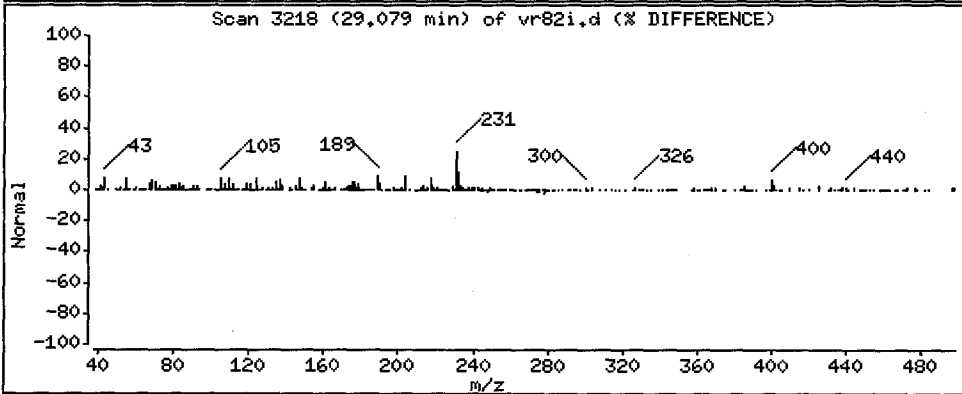
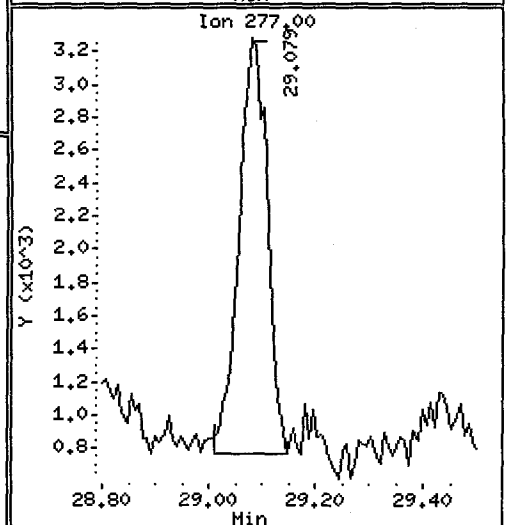
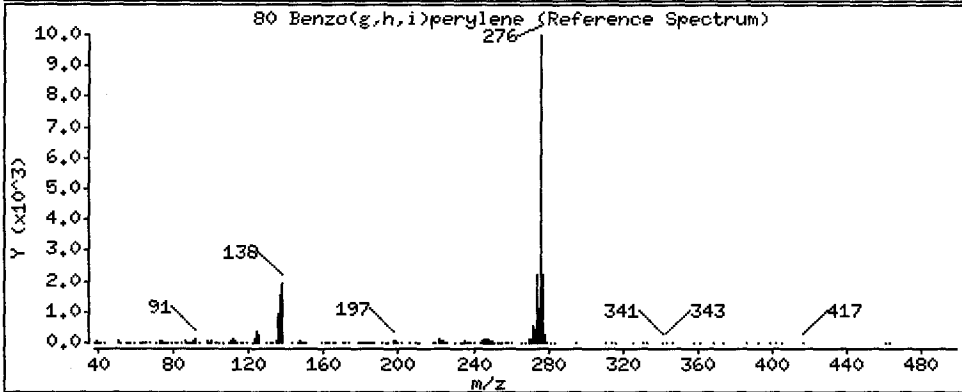
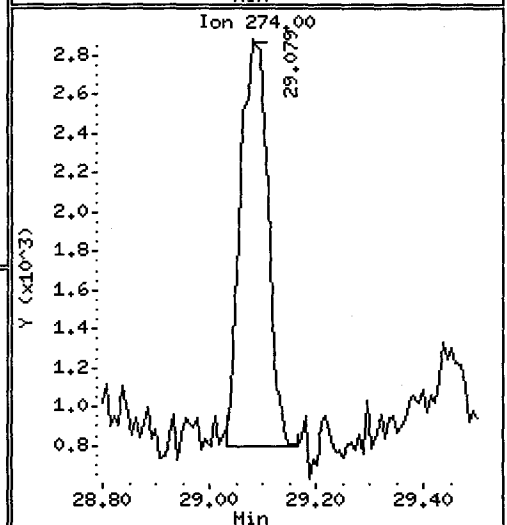
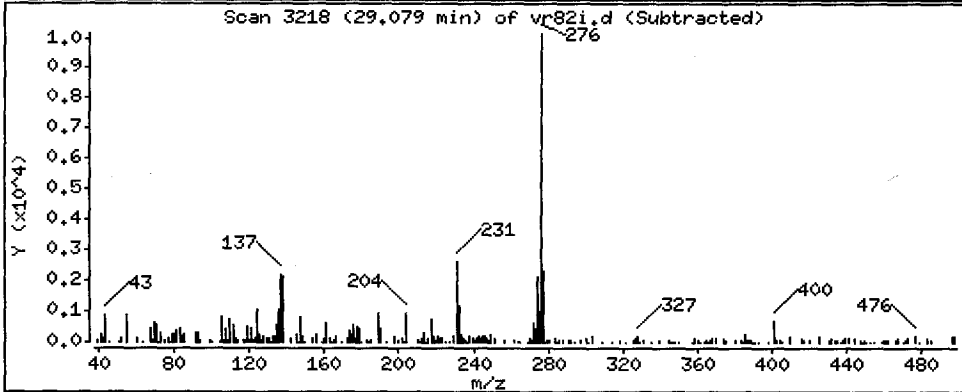
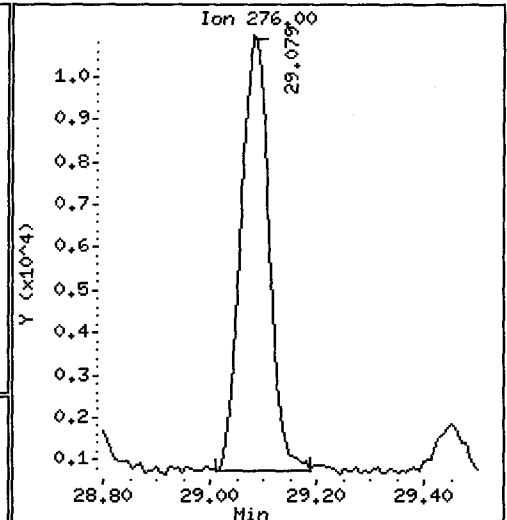
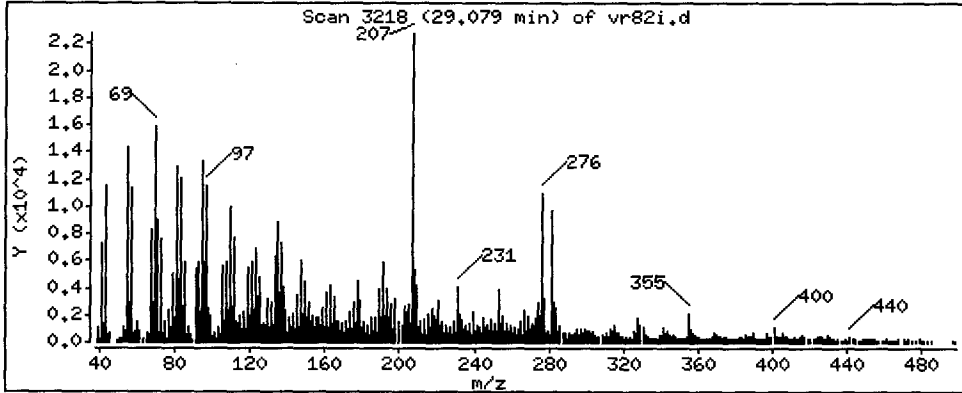
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 36.12 ug/kg



Date : 05-DEC-2012 20:06

Client ID: SG-09-S-C-121108

Instrument: nt10.i

Sample Info: VR82I

Volume Injected (uL): 1.0

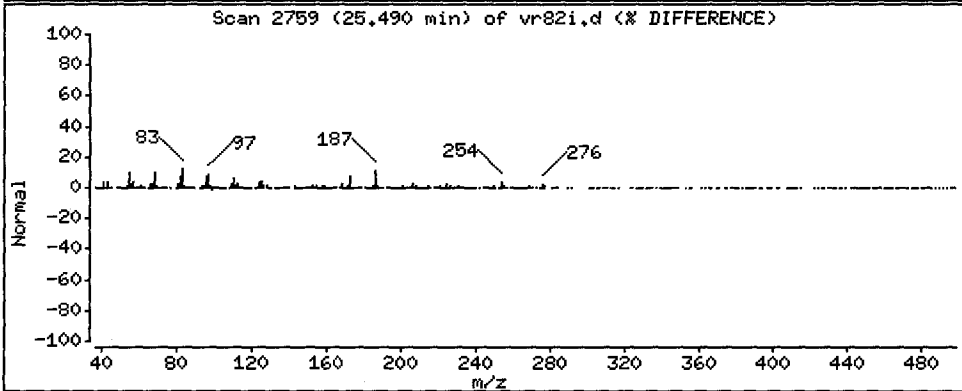
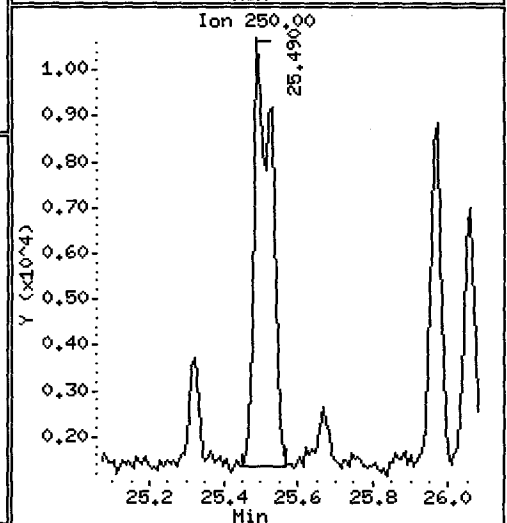
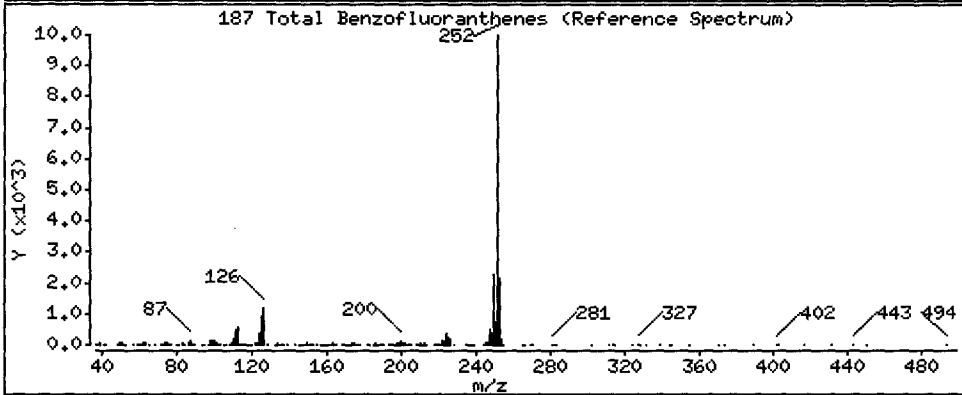
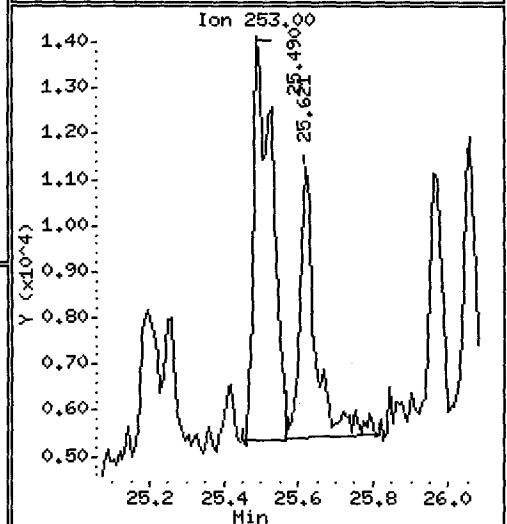
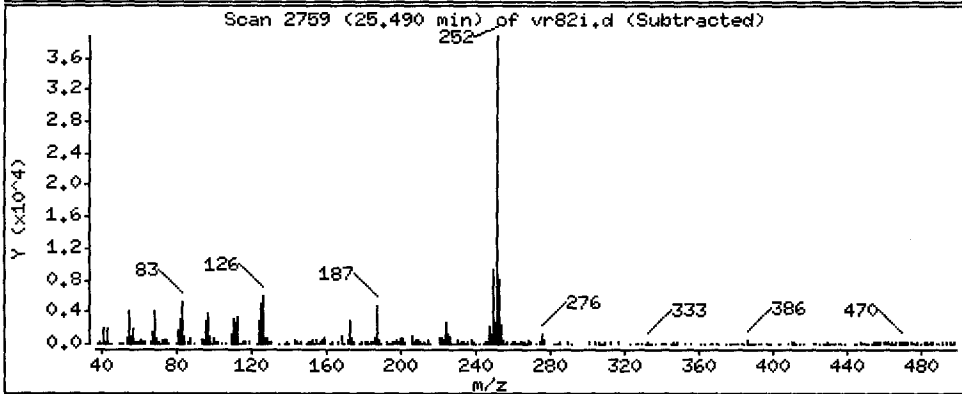
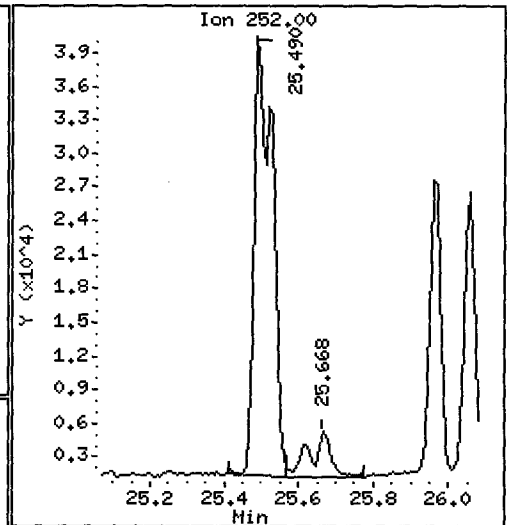
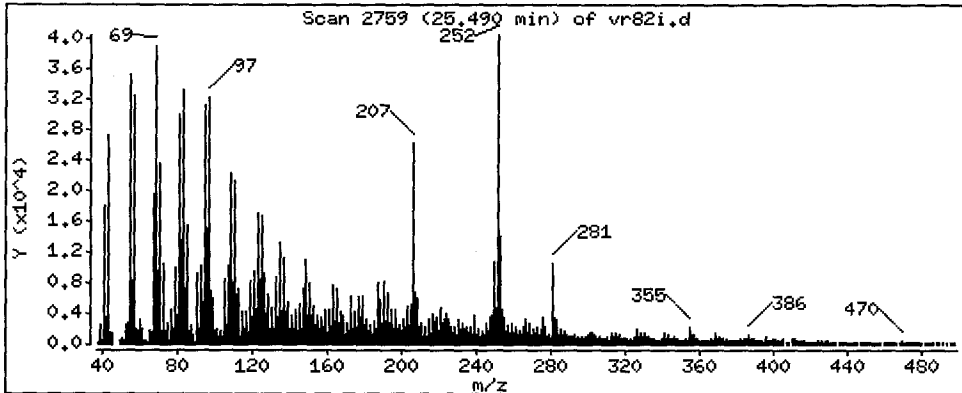
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 118.9 ug/kg



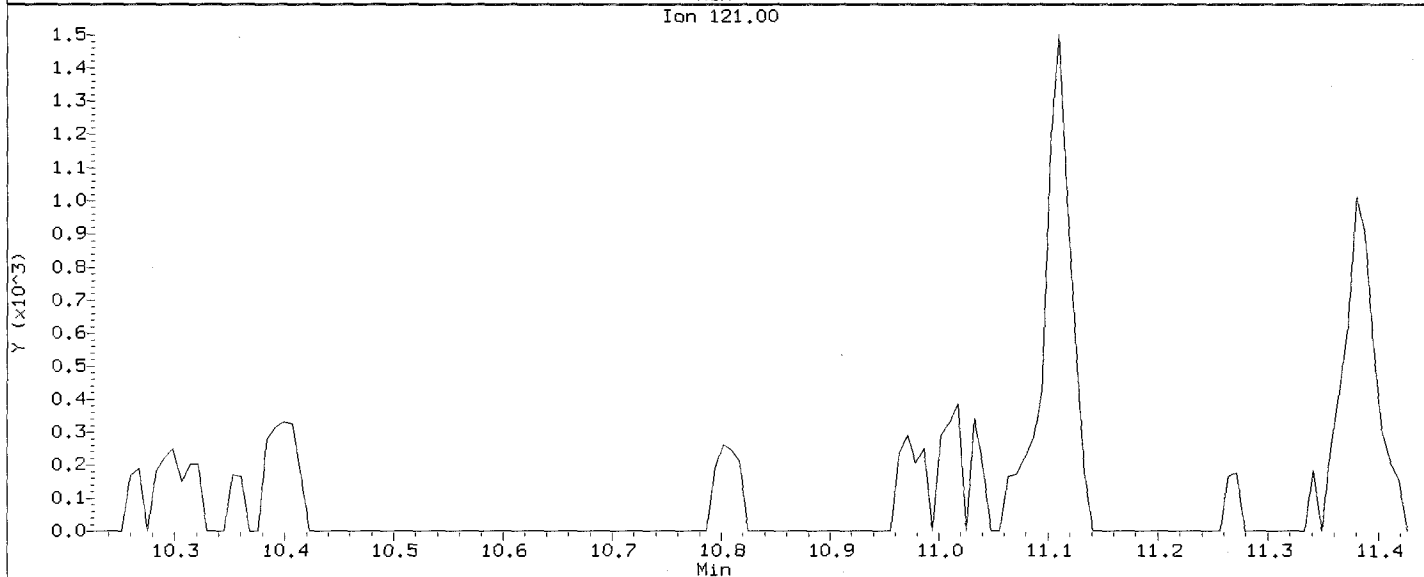
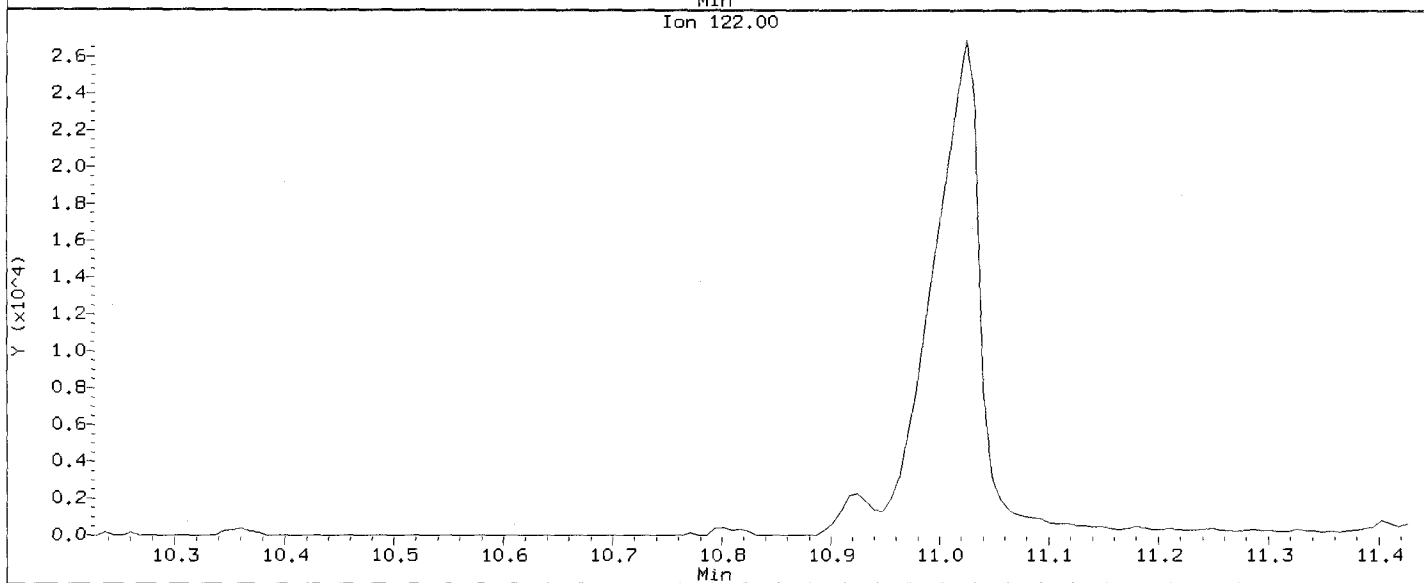
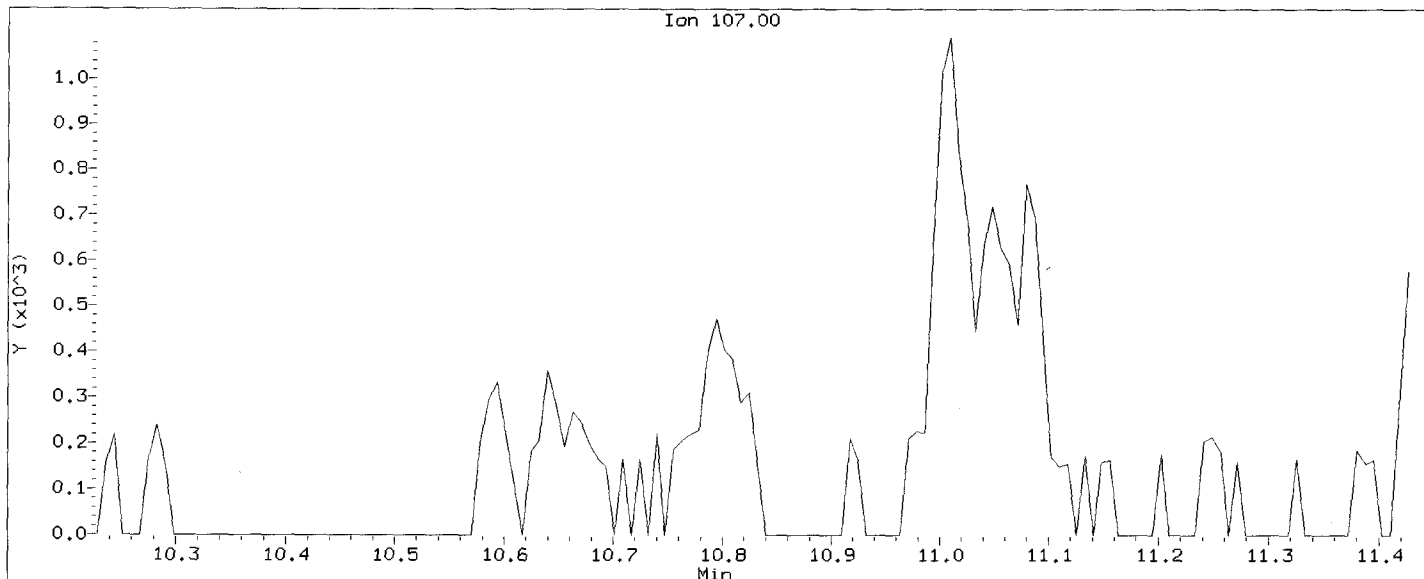
CO-ELUTION SUMMARY FOR FILE - vr82i.d

Lab ID: VR82I, Method: ABN.m, Instrument: nt10.i, Date: 05-DEC-2012

RT CO-ELUTION COMPOUNDS

Data File: /chem1/nt10.1/20121205.b/vr821.d
Injection Date: 05-DEC-2012 20:06
Instrument: nt10.1
Client Sample ID: SG-09-S-C-121108

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



**Dioxin Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: VR82



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin / Furan Bench Sheet EPA Methods 8290 & 1613B Solid Samples

ARI Job No(s) VR58, VR82

Matrix (circle one) Sediment Oil Tissue

Extraction Method Soxhlet Start Time/Date: 17:45 11/14/12 End Time/Date: 06:52 11/15/12

Reagent / Standard	NA	ID / Lot Number	Initials	Date
Analytical Balance		SN 24650344	PD	11/14/12
Purified Sand		2/14/12	PD	11/14/12
Toluene		17887	PD	11/14/12
Hexane		47866 / 17888	PD / JW	11/15/12
CH ₂ Cl ₂		J7133	JW	11/20/12
H ₂ SO ₄		J7883	JW	11/16/12
Na ₂ SO ₄		11.6.12	JW	11/20/12
Glasswool		5.18.12	JW	↓
10 % AgNO ₃				
Basic Silica		6933	JW	11/20/12
Acid Silica		H104	↓	↓
0% Silica		J7764	↓	↓
Activated Florisil		H103		
Dual Carbon Column				
Other (PA SRM)		VN05A #1	PD	11/14/12
Nonane		J510	PD	11/21/12

Bottle ID	ARI Sample ID	Sample Weight (eq to dry wt)	Roto Vap	Final Vol.	H2O Trap Vol (mL)	Comments
11/14/12	VR58 MB	10.00g	(1)2	10uL	0.5	
↓	↓	10.00g	1(2)	10uL	0.6	
↓	QtS	10.00g	1+2	10uL		
11/14/12	VR58 SRM	10.03	(1)2	10uL	<0.1	
3	A	17.18	1(2)	10uL	1.2	
	B	50.26	(1)2	10uL	5.17	
	C	33.44	1(2)	10uL	15.5	
	D	41.77	(1)2	10uL	22.0	
	E	41.72	1(2)	10uL	18.2	
	F	21.24	1(2)	10uL	11.8	
	G	13.41	(1)2	10uL	3.8	
	H	12.68	(1)2	10uL	3.2	
	I	21.54	1(2)	10uL	4.8	
	J	12.74	(1)2	10uL	2.0	
	VR52 A	32.08	1(2)	10uL	22.6	
	B	40.58	(1)2	10uL	19.0	
	C	11.91	1(2)	10uL	2.0	
	D	29.67	1(2)	10uL	10.7	
	E	34.65	(1)2	10uL	6.4	
	F	28.64	(1)2	10uL	8.0	
	G	27.53	1(2)	10uL	7.1	
	H	24.65	1(2)	10uL	5.8	
	I	27.95	(1)2	10uL	3.0	
↓	VR52 J	11.94	(1)2	10uL	1.8	
	Prep Analyst/Date	PD 11/14/12	PD 11/15/12	PD 11/21/12		

Reagent / Standard	Vol	ID / Lot Number	Solution Conc.	Expiration Date	Initials	Date	Witness
Recovery Standard	1.0 mL	2025-3	2/4ng/mL	11/3/13	PD	11/14/12	W/W
Ongoing Precision / Recovery	20 µL	1954-3	10/50/100ng/mL	2/27/13	PD	11/14/12	W/W
QLS Standard	10 µL	211	0.5/2.5/5ng/mL	11/03/13	JW	11/22/12	W/W
Clean-up Standard	1.0 mL	2035-4	0.8ng/mL	11/20/12	JW	11/20/12	W/W
Internal Standard	10 µL		200ng/mL				

Verify Client ID

Analyst/Date PD 11/14/12
Acid Clean

Analyst/Date JW 11/16/12
Silica-Florisil

Analyst/Date JW 11/20/12



ARI Job No.: VR 82

Client ID: Anchor QEA, LLC

Parameter:

Client Project:

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>A,B,C,D,E,F,G,H,I,</u>	<u>ET 11/9/12</u>
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>A,B,C,D,E,F,G,H,I,</u>	<u>CT 11/9/12</u>
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>Small Rocks 10% C,</u>	<u>CT 11/9/12</u>
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input checked="" type="checkbox"/> Other (Details)= <u>VR82 A^B Bumped on Petro Vap Lost approx 4%</u>	<u>PD 11/15/12</u>
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). (Centrifuge#1 used for all Centrifugations)	

**Dioxin Raw Data
Initial Calibration**

ARI Job ID: VR82

HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: 806S (Dioxins)

Parameter(s): Dioxin Curve 11/23/12

Instrument: AutoSpec01

Curve Date: 11/23/12 Analysis Start Date: _____

Internal Standard Meets Criteria?	<input checked="" type="radio"/> YES / NO	Method Blank in Control?	YES / NO
Extraction Std Recovery in Control?	<input checked="" type="radio"/> YES / NO	IPR / OPR Recovery in Control?	YES / NO
Cal acceptable?	<input checked="" type="radio"/> YES / NO	CCal acceptable?	YES / NO
Manual Integrations for ICal?	<input checked="" type="radio"/> YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- All caps 6 pts: CSL - CS5
- All < 20% RSD
- Man. Int. for HpD in CSL.

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 11/26/12

Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.: GC=CN10921030, MS=P764

Date: 1/23/12 Analysis: Dioxins Analyst: jk
 GC Program: 8290C Column No: 1081305 Column Type: RTX-Dioxin-2
 Inj Vol: 1ul Instrument Tune (IPR): 1008290B Detector Voltage: 350
 Resolution Check Files: 10:33, 21:14 Curve Date: 1/23/12

IS/SS	Ical/Ccal	LCS/ICV
<u>IT908</u>	<u>IT204</u>	
	<u>1997-2</u>	

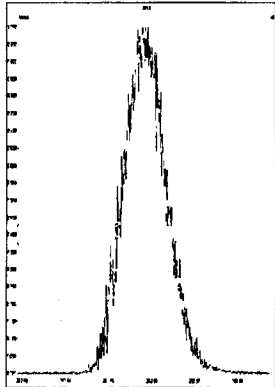
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2	23-Nov-12	11:24:26	12112303	CS3	39.6	39.6	2672022
3	23-Nov-12	12:16:42	12112304	ISC01	2.5		
4	23-Nov-12	14:07:24	12112305	CSL	39.6	39.6	3137527
5	23-Nov-12	15:02:34	12112306	CS1	39.6	39.6	3300814
6	23-Nov-12	15:55:02	12112307	CS2	39.6	39.6	3479761
7	23-Nov-12	16:45:35	12112308	CS3	39.6	39.6	2679815
8	23-Nov-12	17:37:45	12112309	CS4	39.6	39.6	3593846
9	23-Nov-12	18:30:06	12112310	CS5	39.6	39.6	8062691
10	23-Nov-12	19:22:21	12112311	ICV	39.6	39.6	2719432

jk 1/29/12

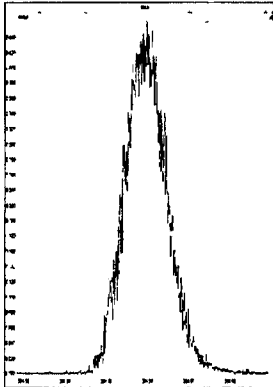
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 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Printed: Friday, November 23, 2012 10:33:01 Pacific Standard Time

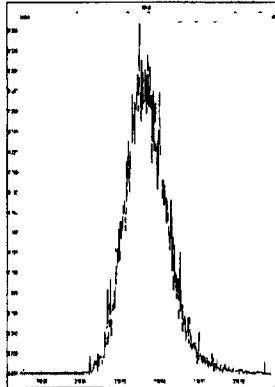
M 292.9824 R 13021



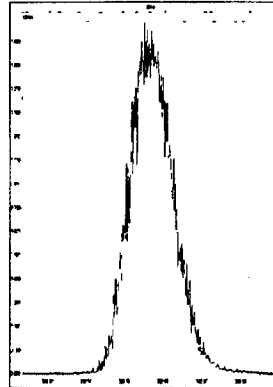
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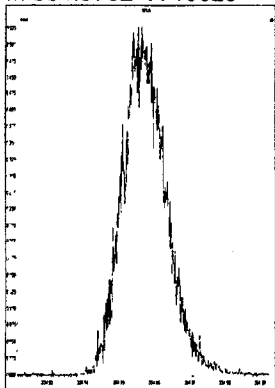
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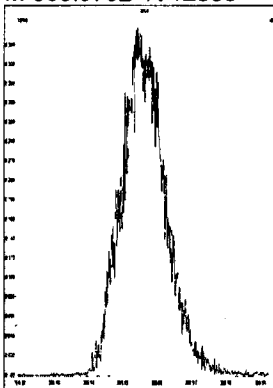
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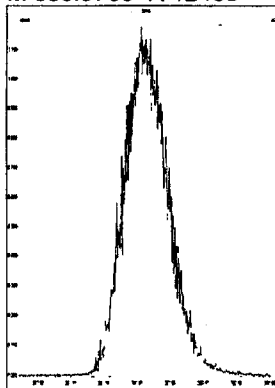
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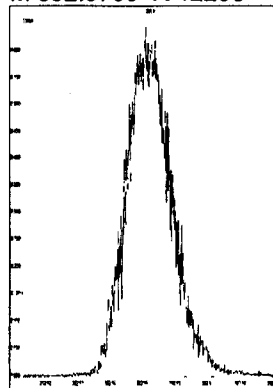
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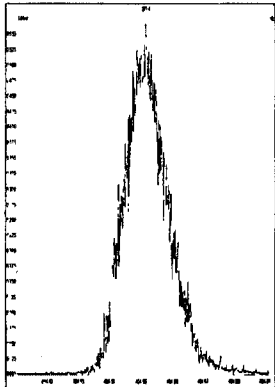
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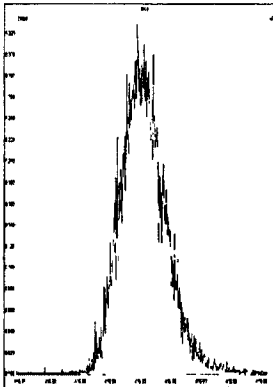
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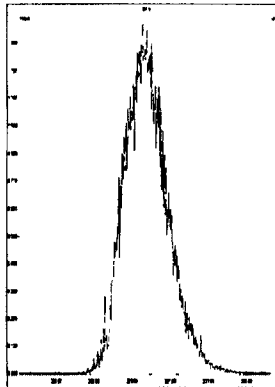
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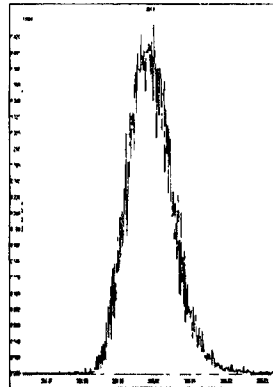
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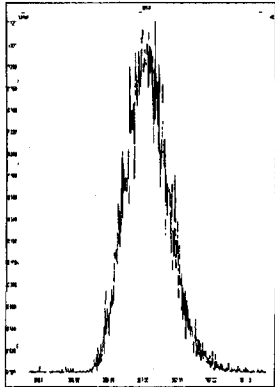
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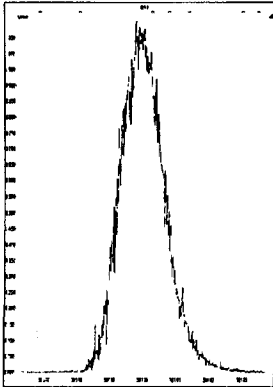
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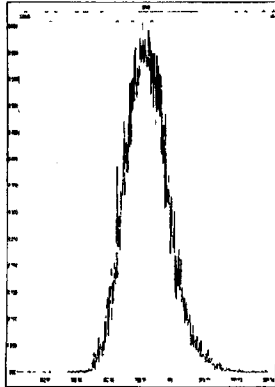
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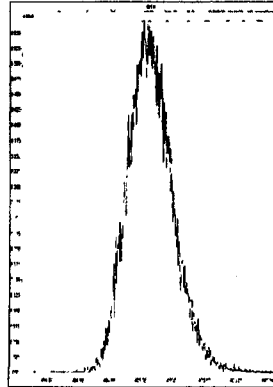
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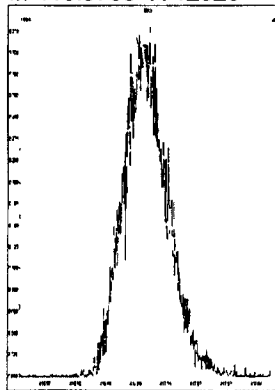


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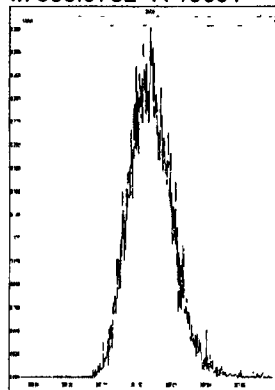


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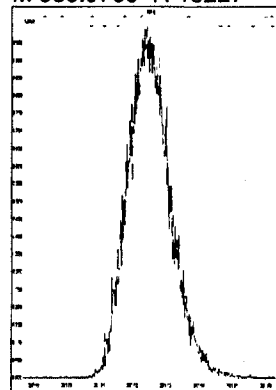
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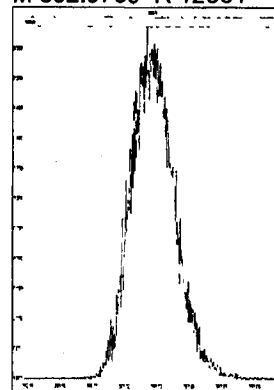
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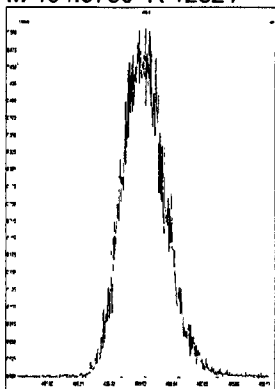
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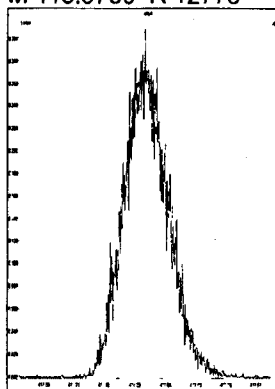
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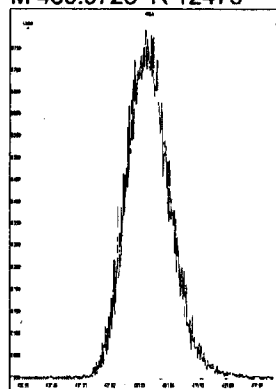
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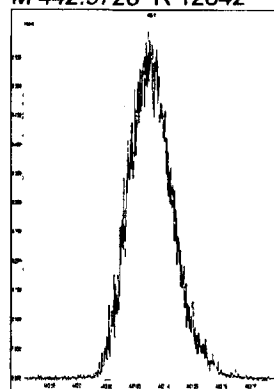
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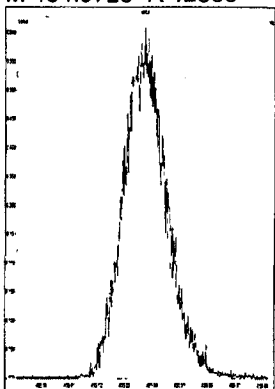
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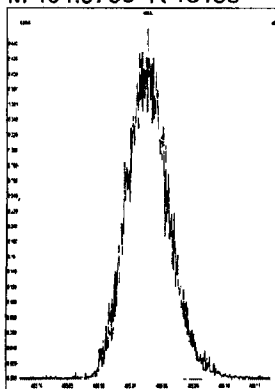
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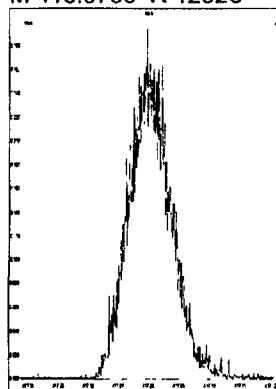
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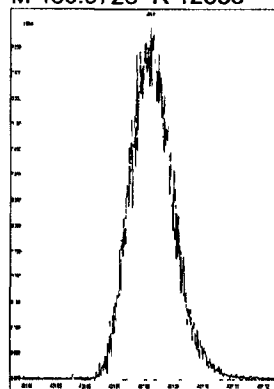
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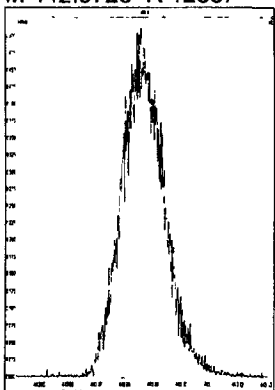
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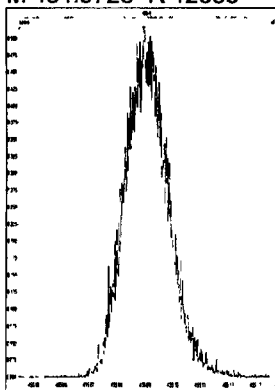
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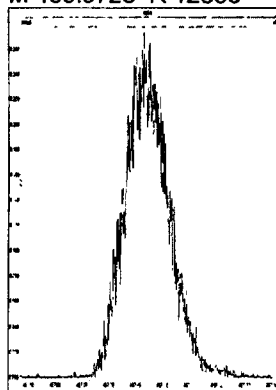
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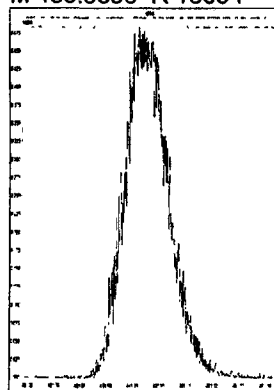
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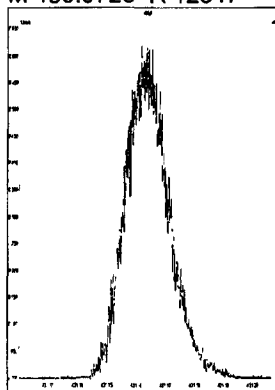


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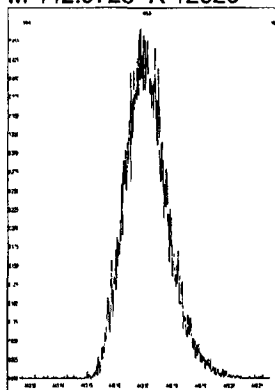


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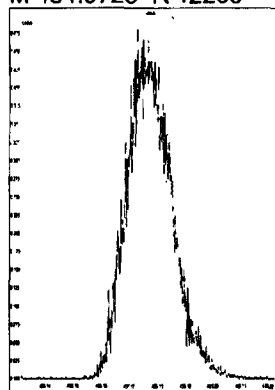
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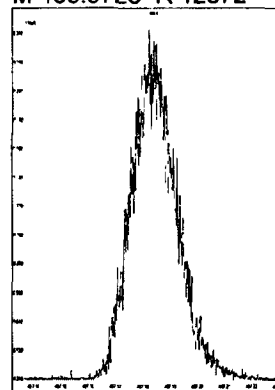
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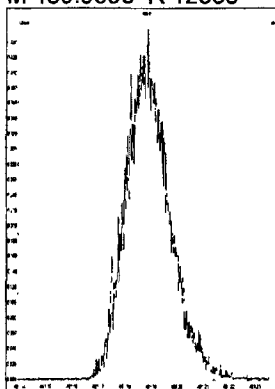
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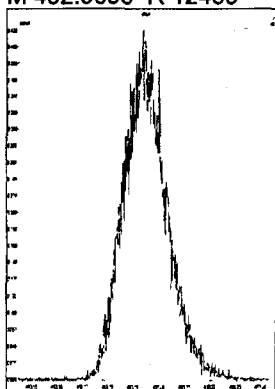
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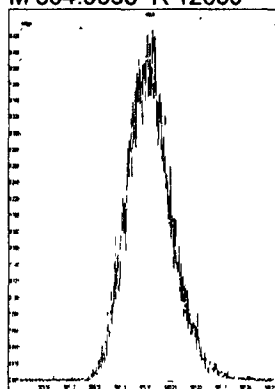
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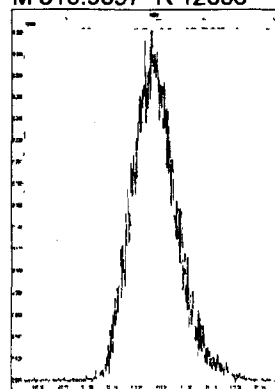
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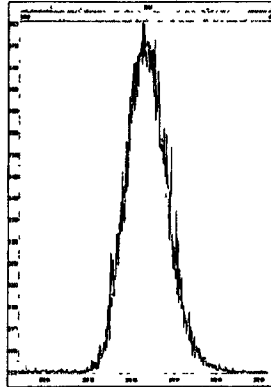
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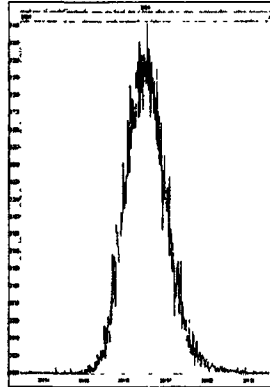
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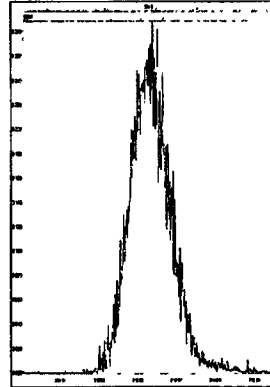
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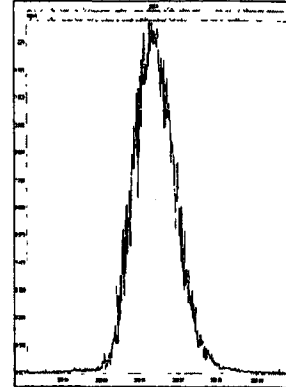
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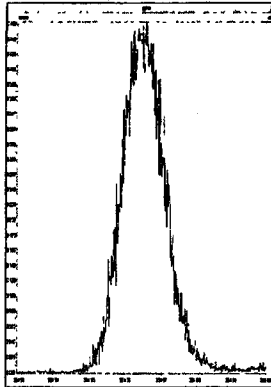
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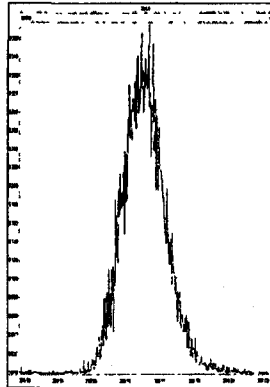
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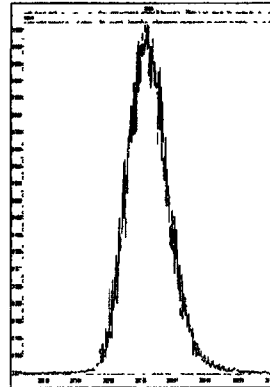
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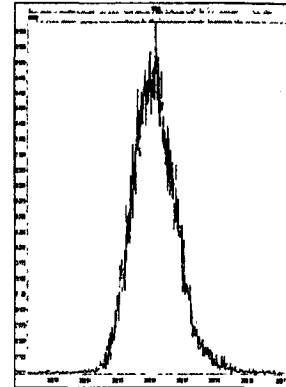
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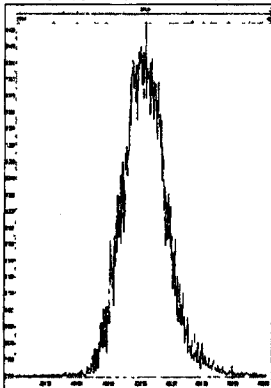
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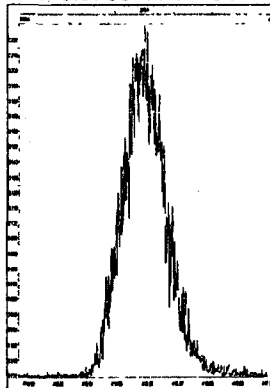
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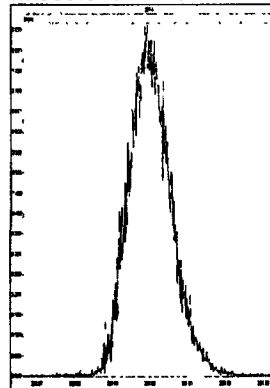
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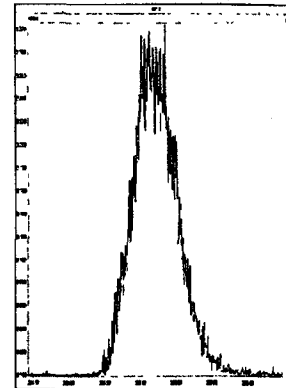
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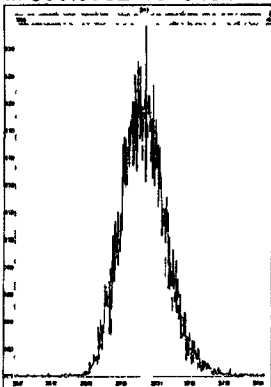
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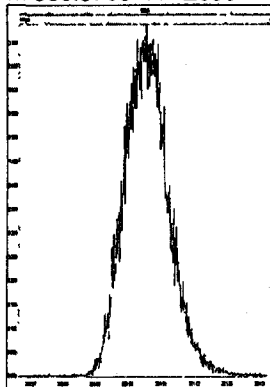
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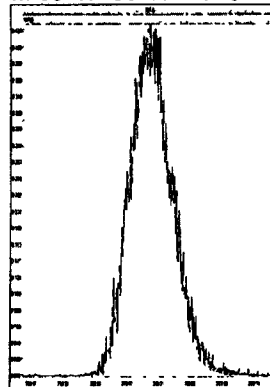
M 366.9792 R 13404



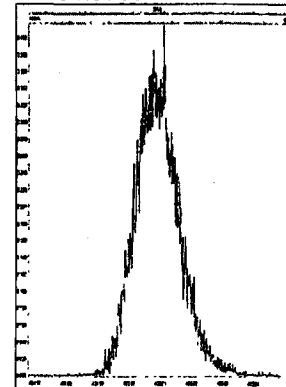
M 380.9760 R 12690



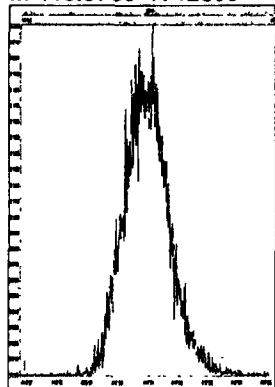
M 392.9760 R 12923



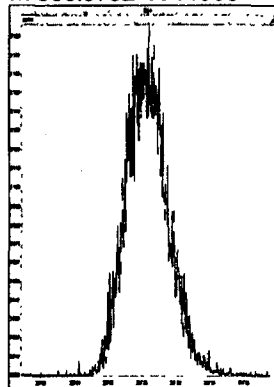
M 404.9760 R 13062



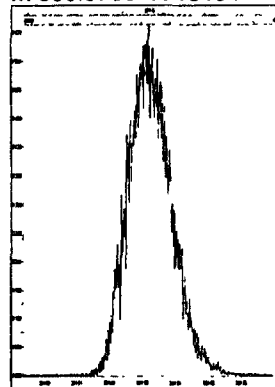
M 416.9760 R 12855



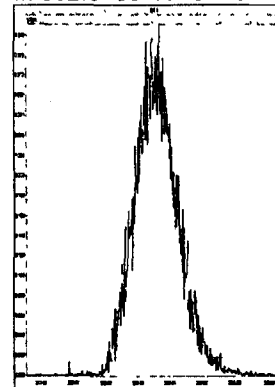
M 366.9792 R 14008



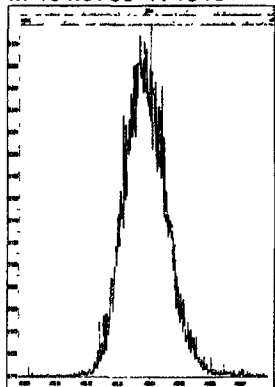
M 380.9760 R 13194



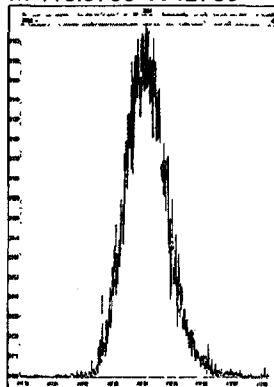
M 392.9760 R 13416



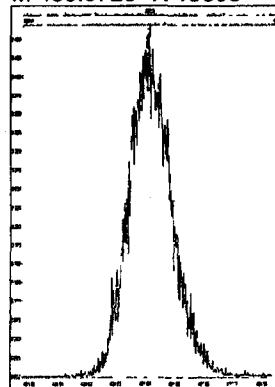
M 404.9760 R 13161



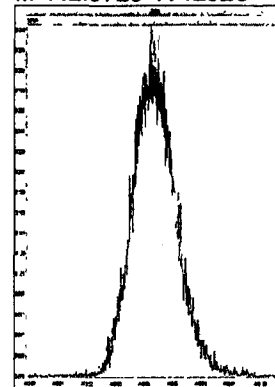
M 416.9760 R 12763



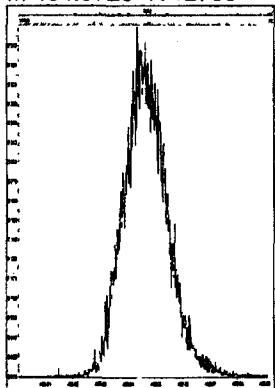
M 430.9728 R 13303



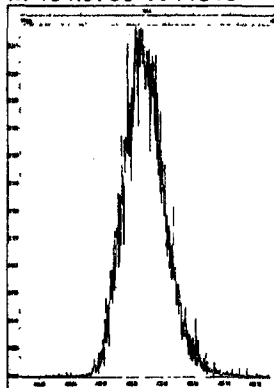
M 442.9728 R 12926



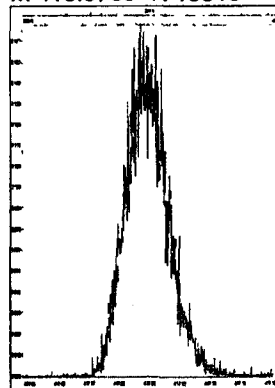
M 454.9728 R 12755



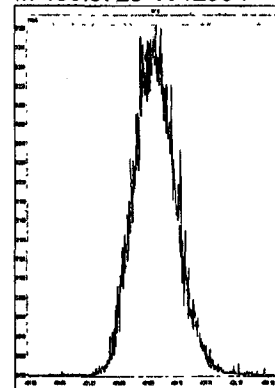
M 404.9760 R 14513



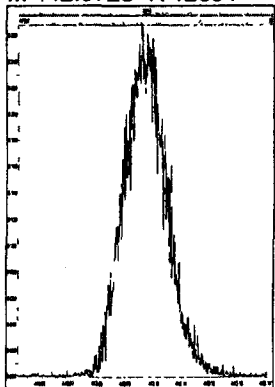
M 416.9760 R 13316



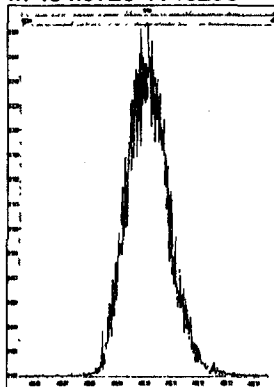
M 430.9728 R 12954



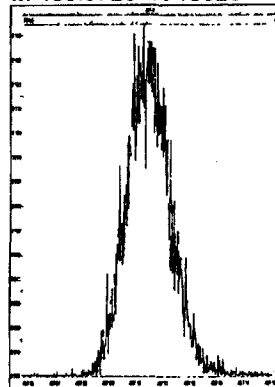
M 442.9728 R 12854



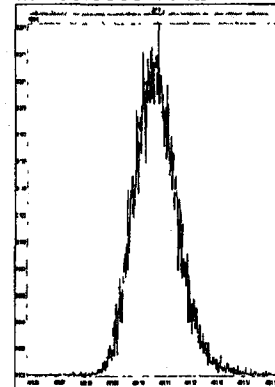
M 454.9728 R 13298



M 466.9728 R 13626

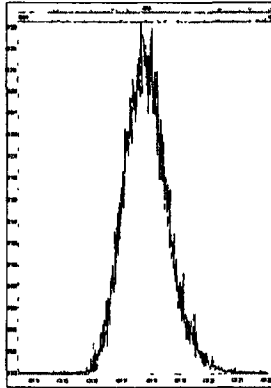


M 480.9696 R 12691

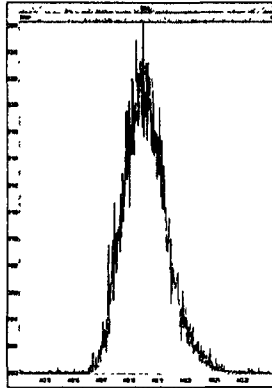


Printed: Friday, November 23, 2012 21:14:57 Pacific Standard Time

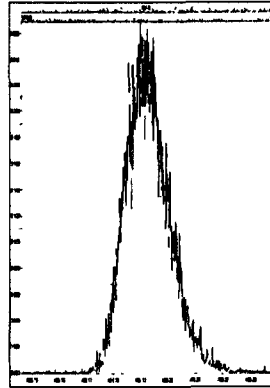
M 430.9728 R 12438



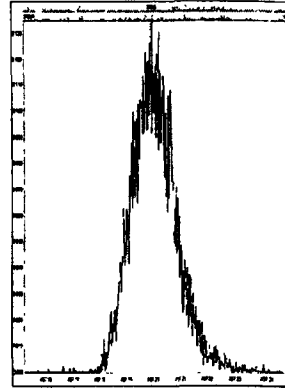
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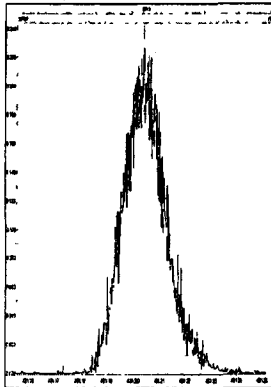
M 454.9728 R 12832



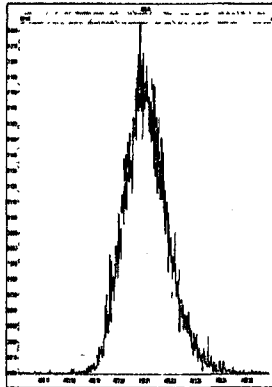
M 466.9728 R 13263



M 480.9696 R 12228



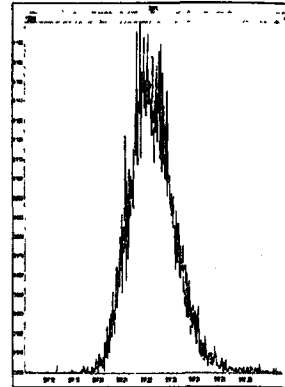
M 492.9696 R 12658



M 504.9696 R 12986

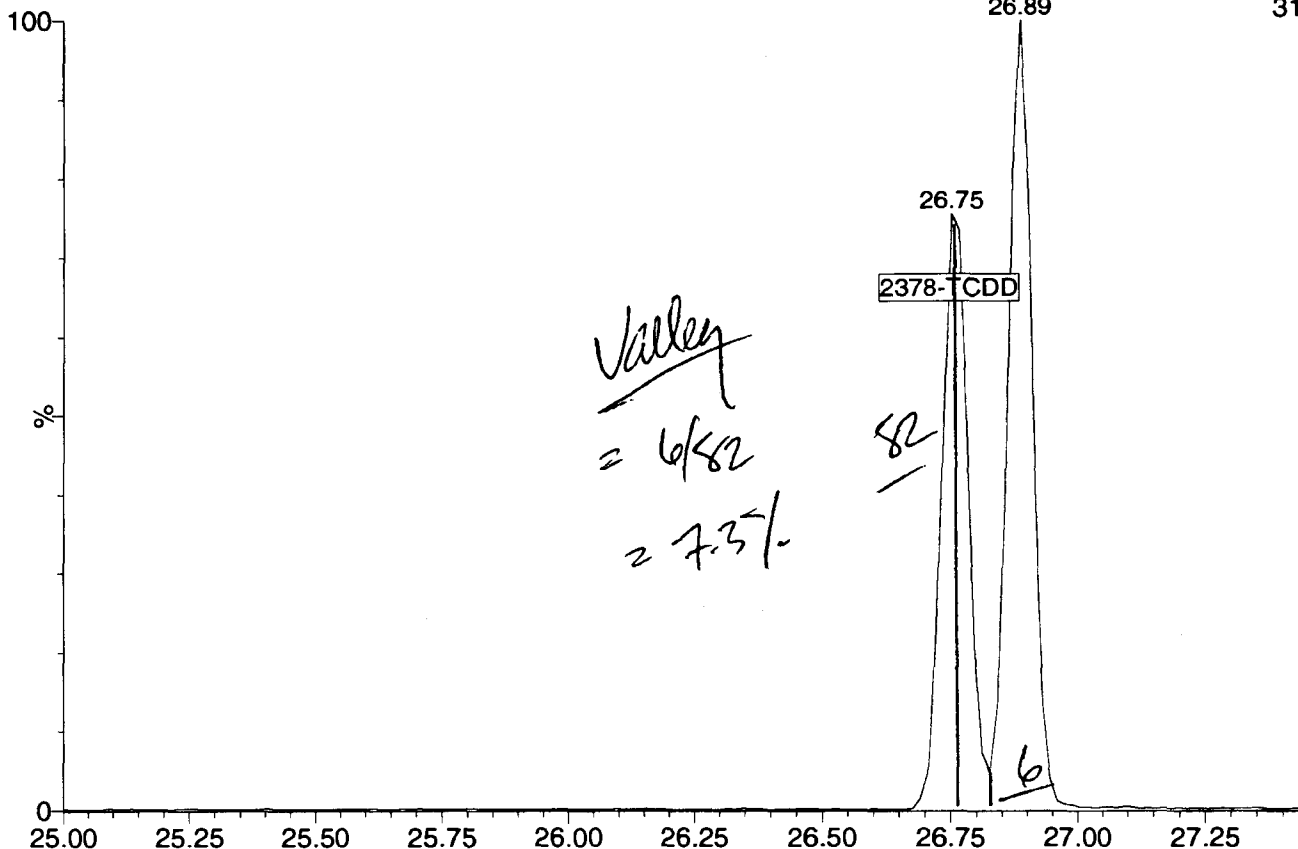


M 516.9697 R 13227



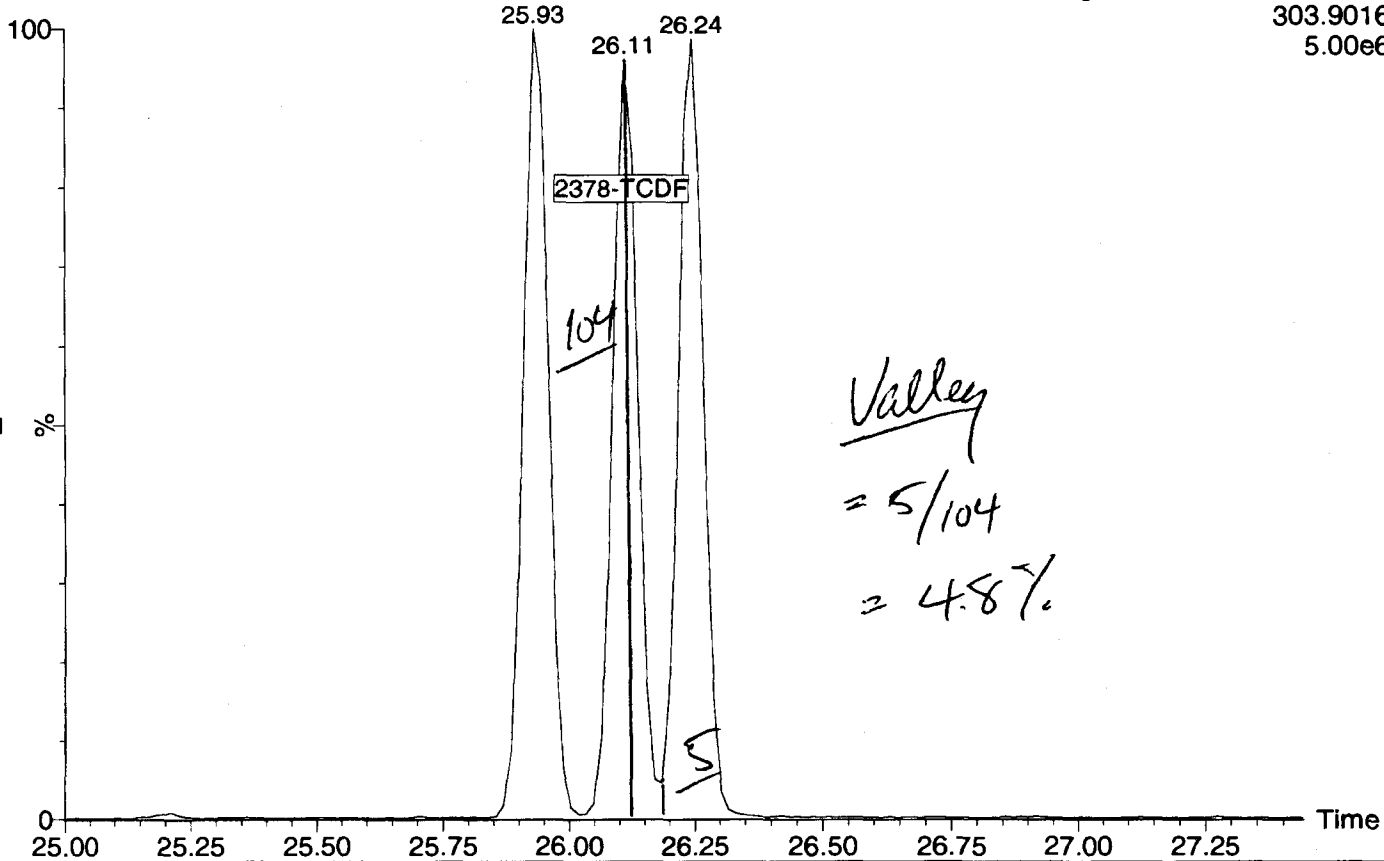
12112304

1: Voltage SIR 15 Channels EI+
26.89
319.8965
4.73e6



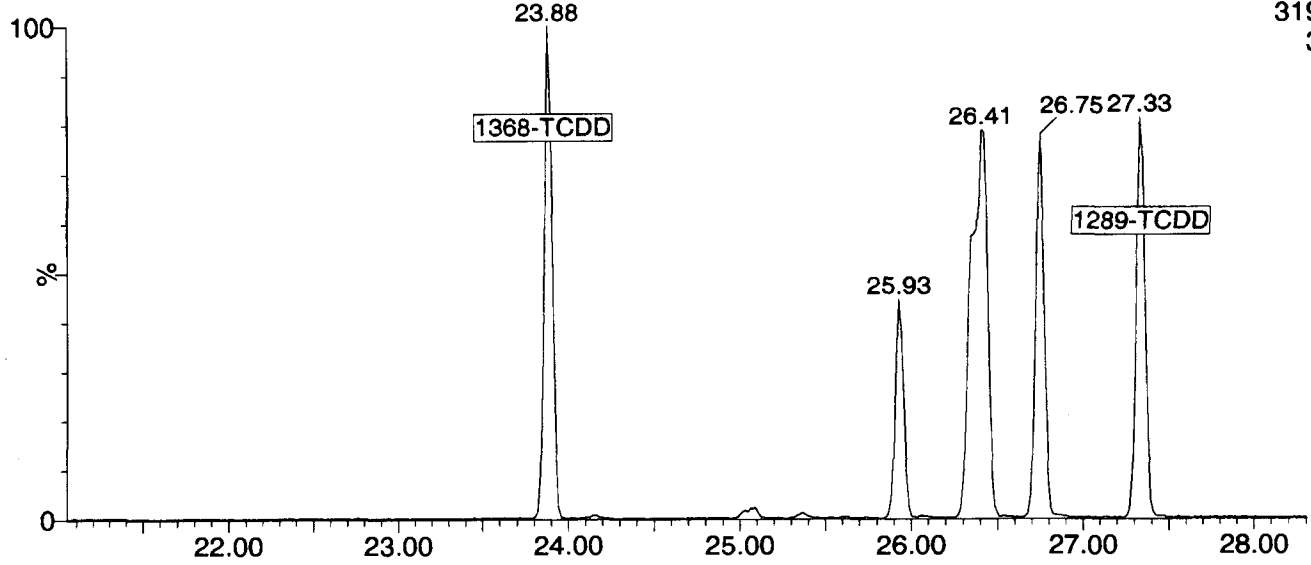
12112304

1: Voltage SIR 15 Channels EI+
303.9016
5.00e6



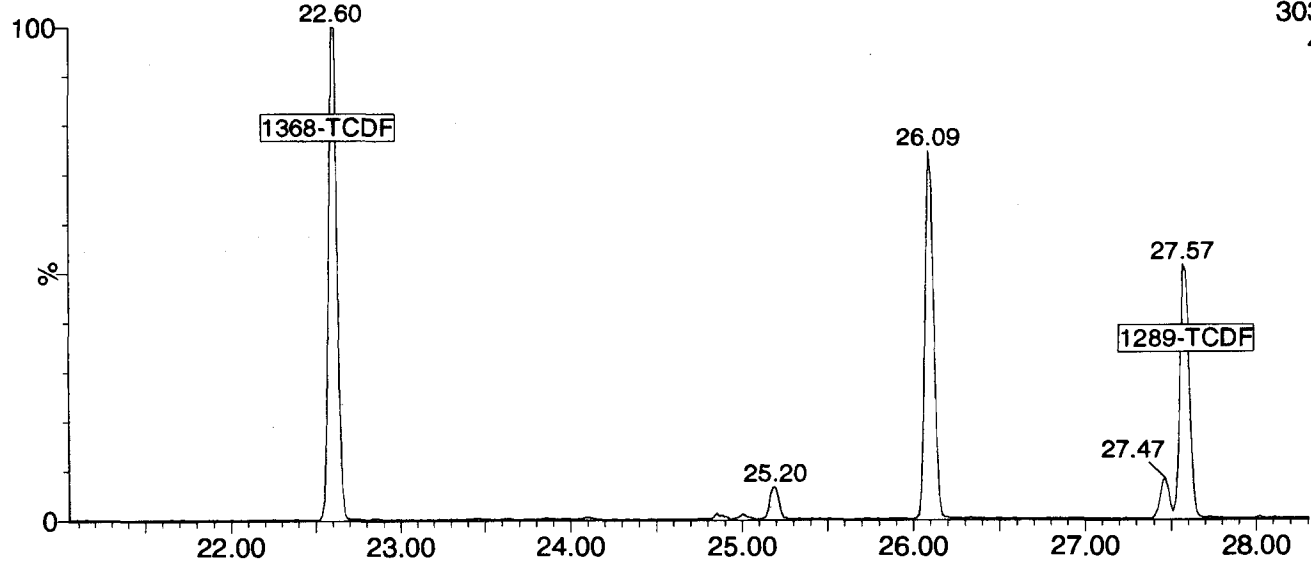
12112303

1: Voltage SIR 15 Channels EI+
319.8965
3.68e6



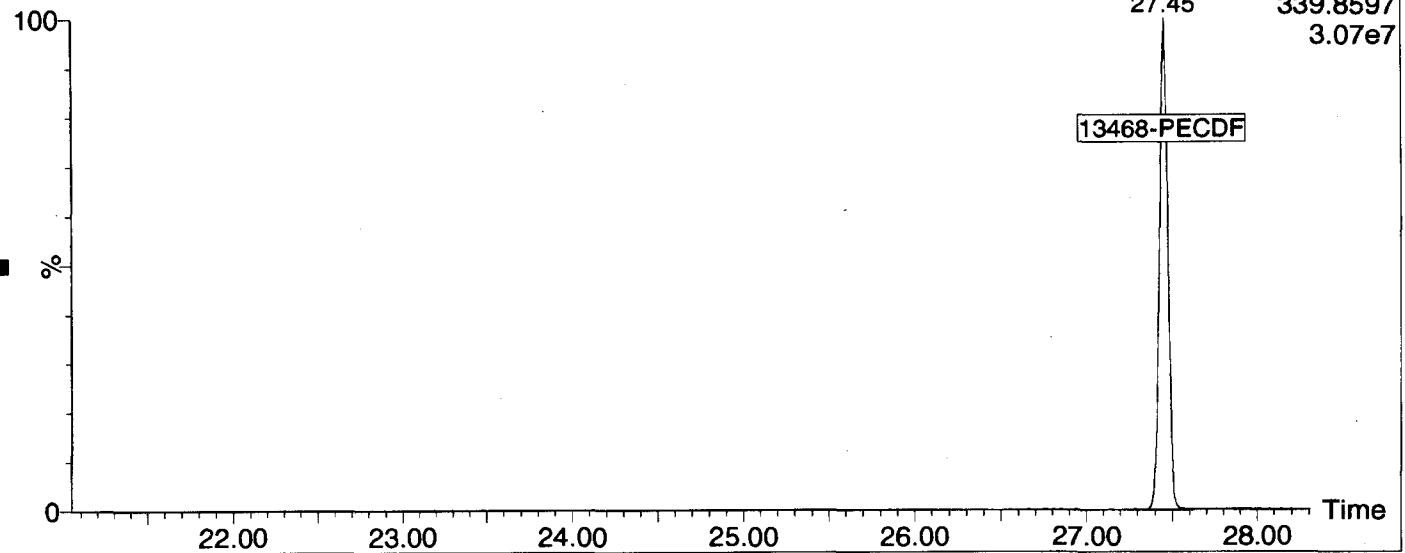
12112303

1: Voltage SIR 15 Channels EI+
303.9016
4.84e6



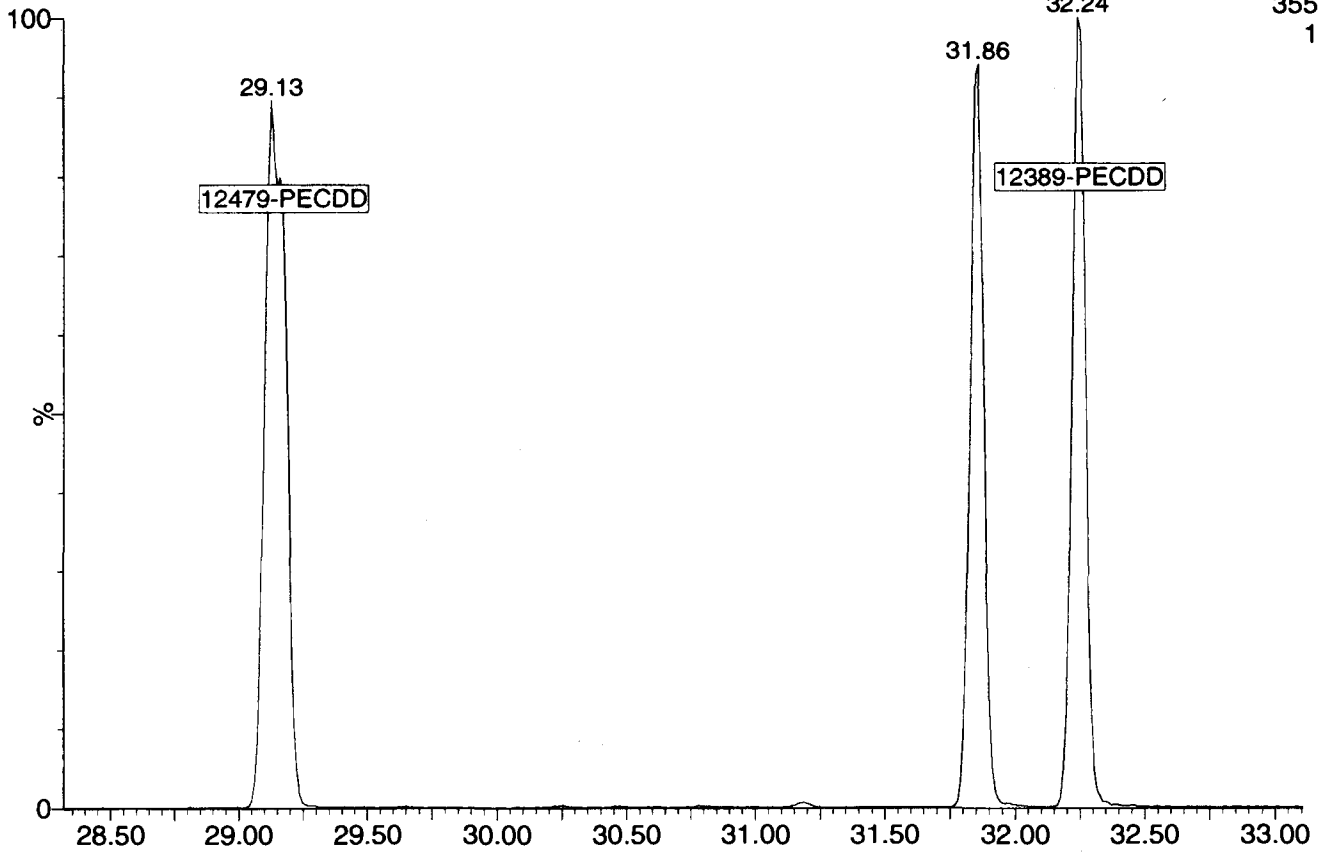
12112303

1: Voltage SIR 15 Channels EI+
27.45
339.8597
3.07e7



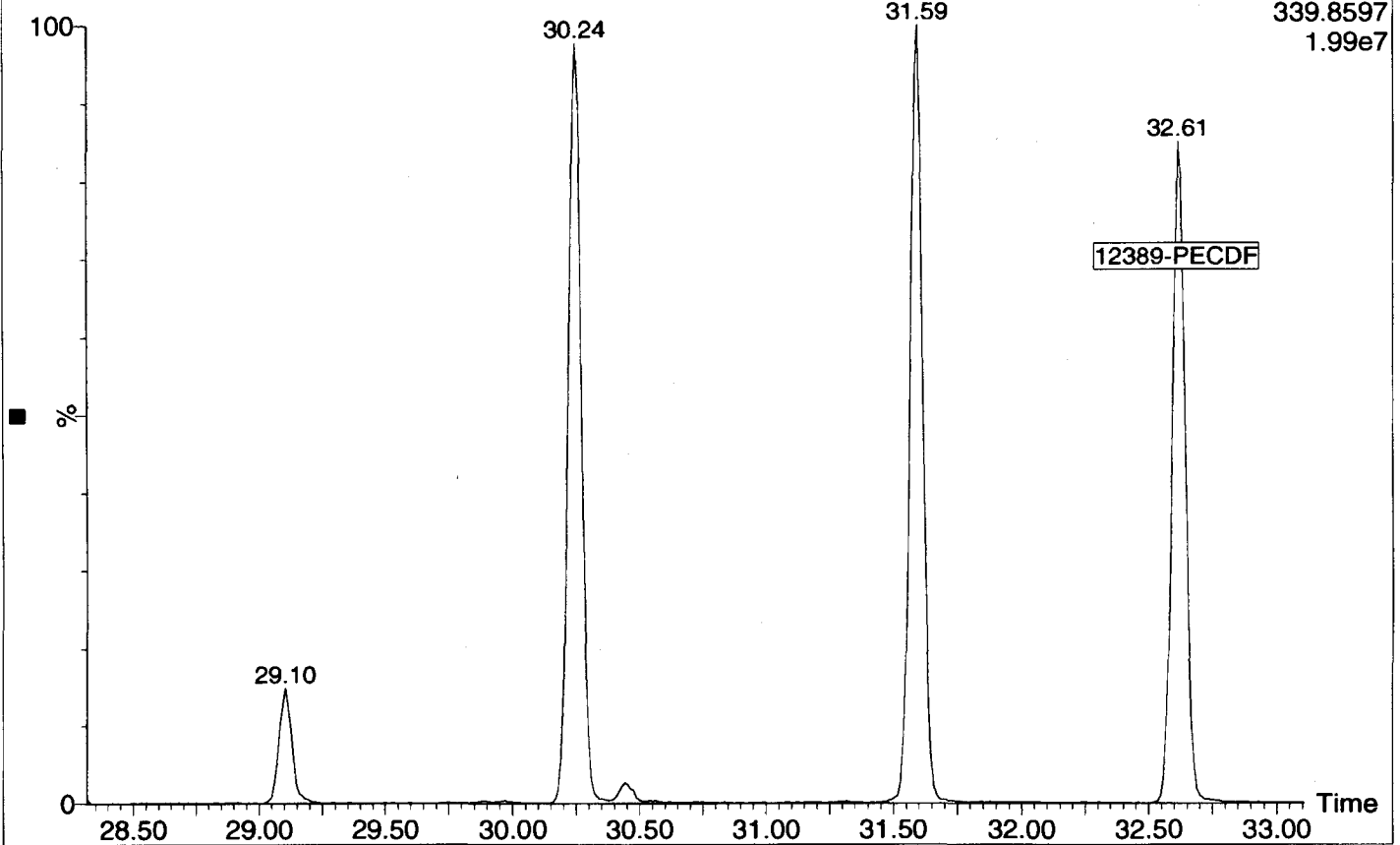
12112303

2: Voltage SIR 11 Channels EI+
32.24
355.8546
1.43e7



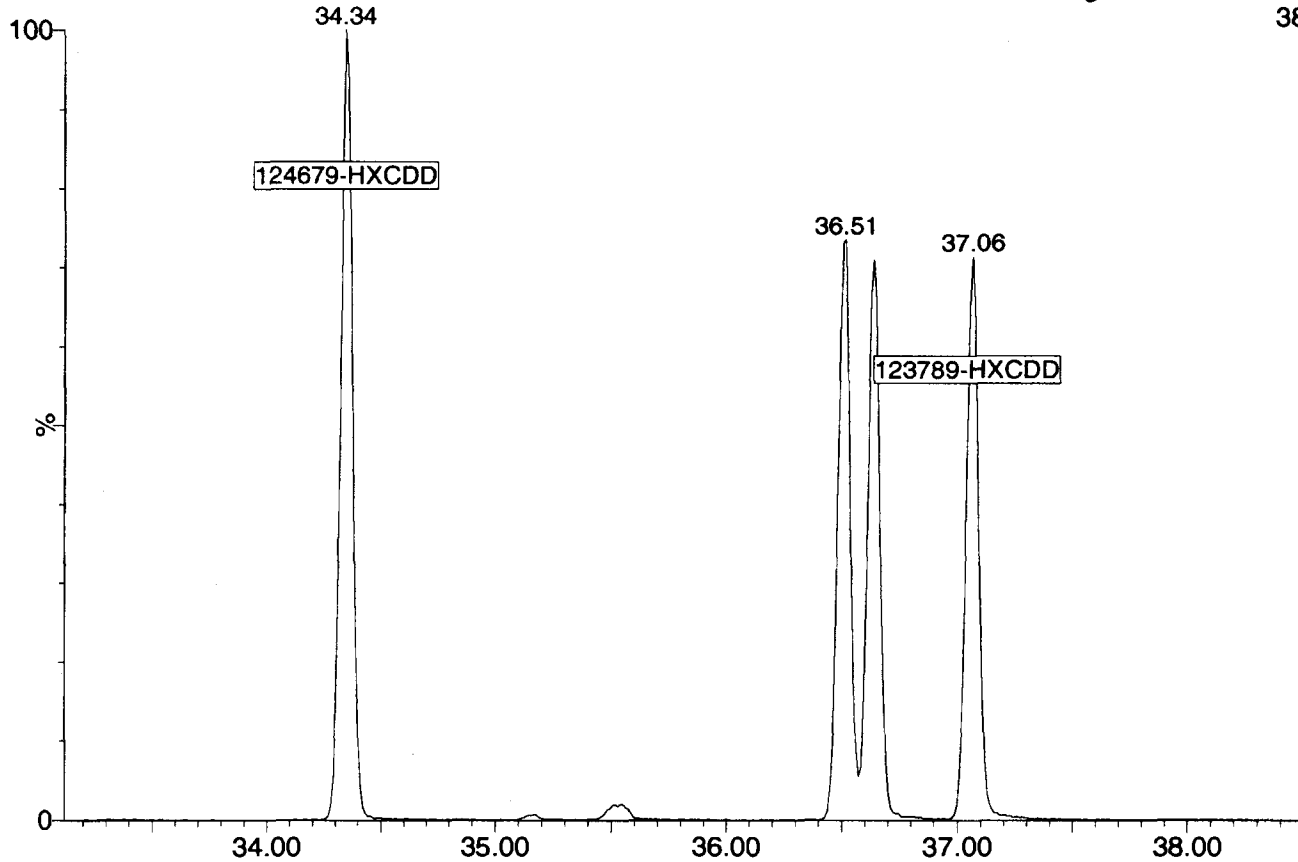
12112303

2: Voltage SIR 11 Channels EI+
339.8597
1.99e7



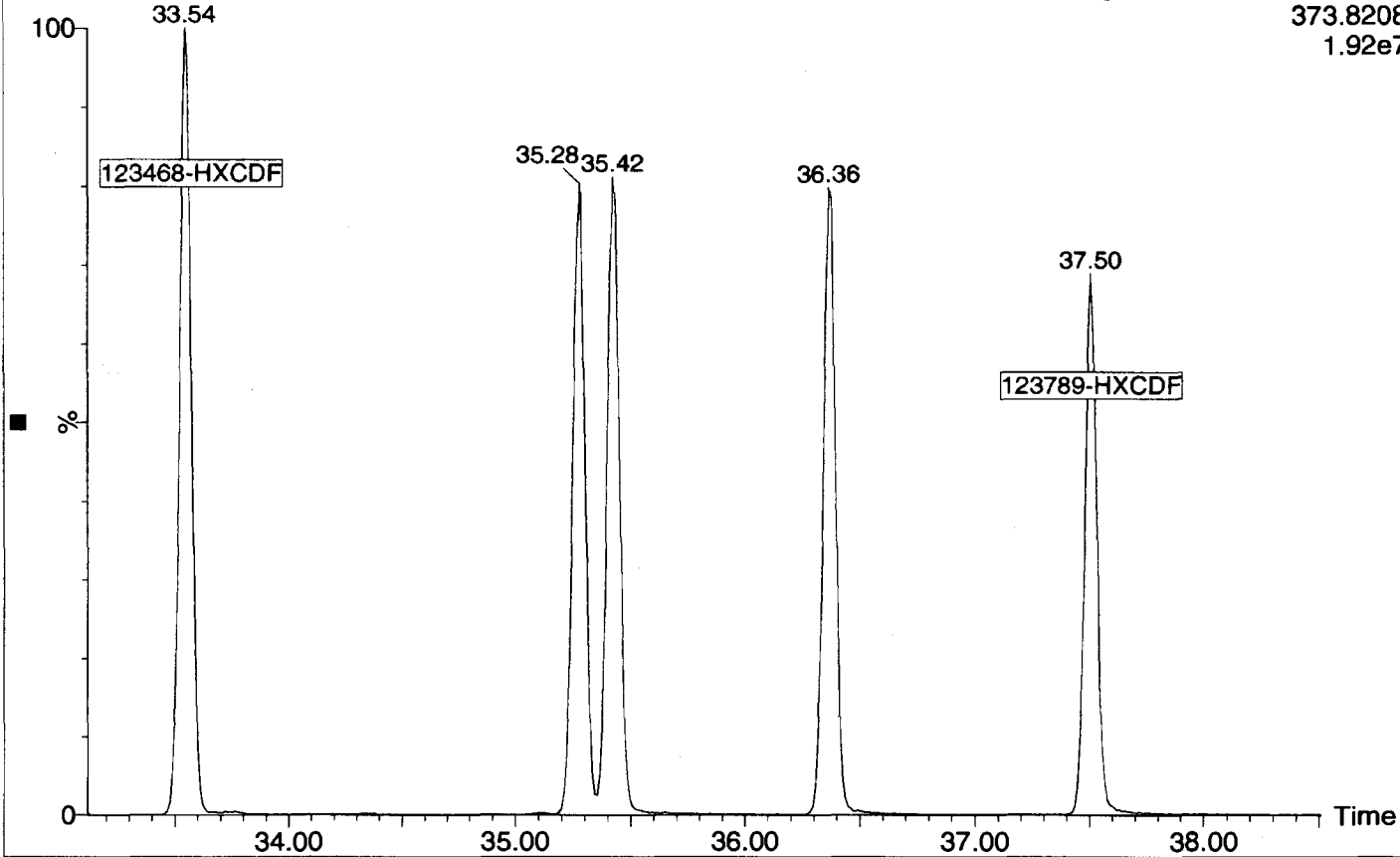
12112303

3: Voltage SIR 11 Channels EI+
389.8157
1.57e7



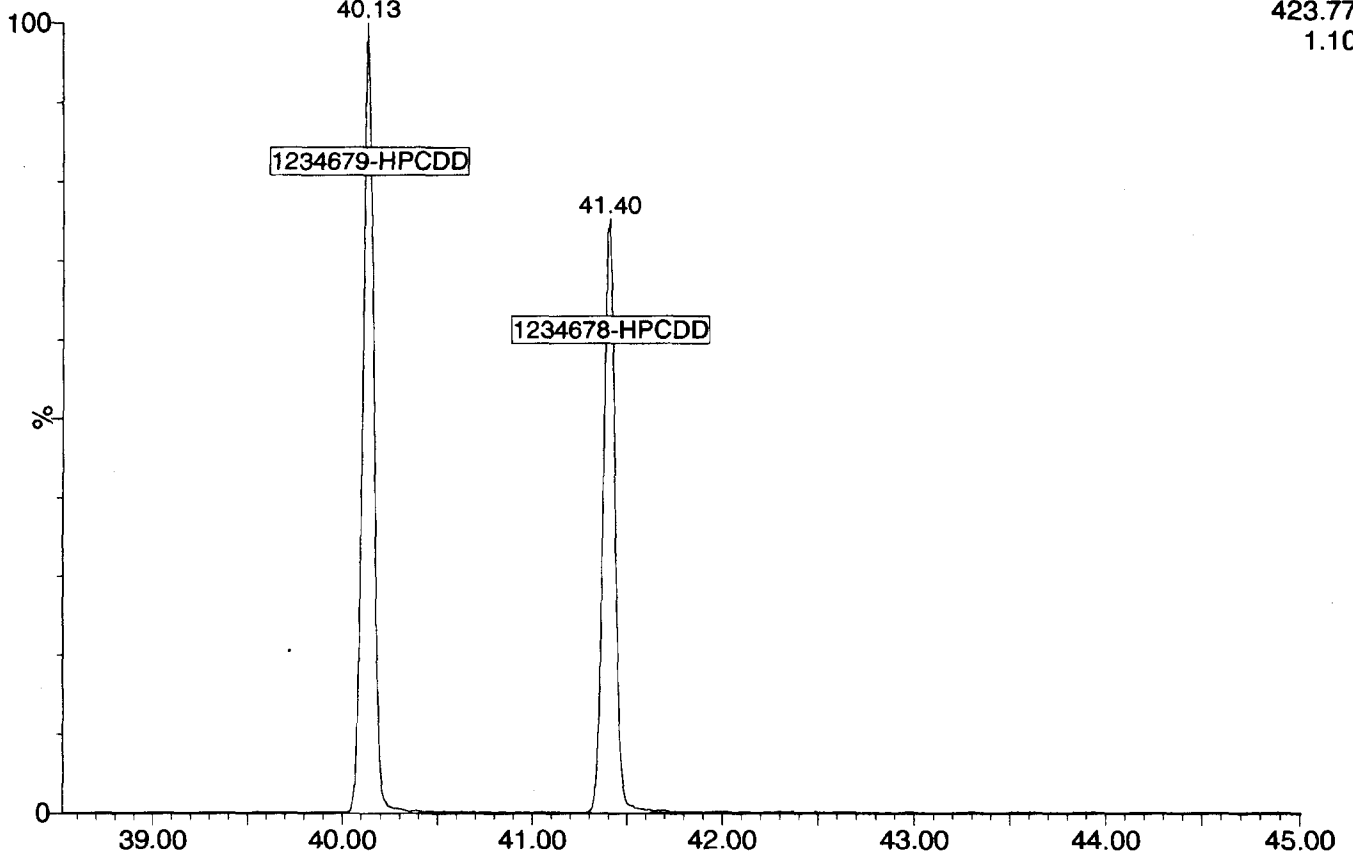
12112303

3: Voltage SIR 11 Channels EI+
373.8208
1.92e7



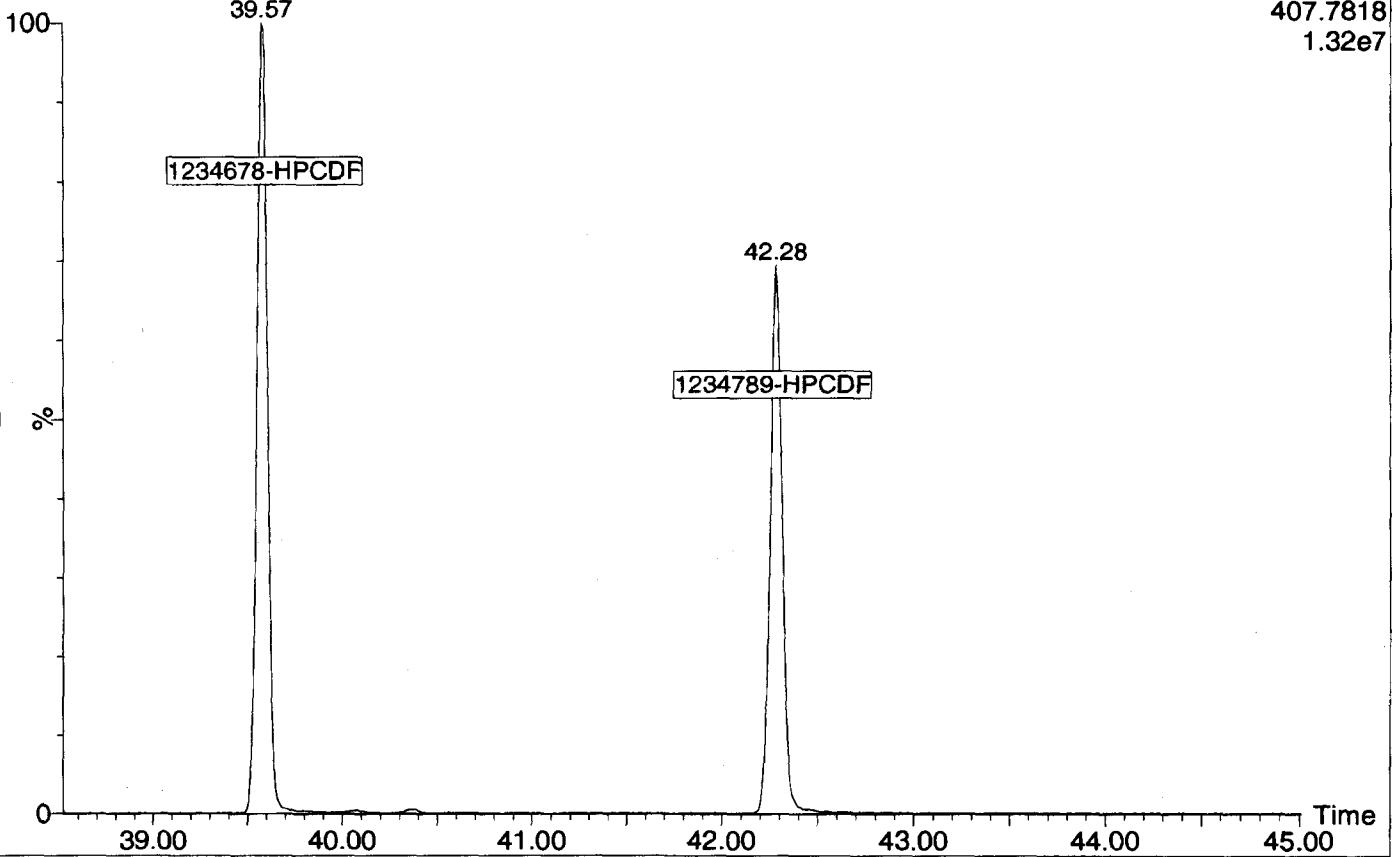
12112303

4: Voltage SIR 11 Channels EI+
423.7766
1.10e7



12112303

4: Voltage SIR 11 Channels EI+
407.7818
1.32e7



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\IoxIn121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.108	1.001	2721	3557	6278	bb	0.877	0.765	0.770	NO	11.7	0.111	0.111
12378-PeCDF	30.244	1.000	13232	9002	22234	bb	0.896	1.470	1.550	NO	120.9	0.502	0.502
23478-PeCDF	31.604	1.001	14060	9420	23480	bb	0.926	1.492	1.550	NO	119.8	0.525	0.525
123478-HxCDF	35.275	1.001	10621	8655	19276	bd	1.068	1.227	1.240	NO	99.2	0.496	0.496
234678-HxCDF	36.361	1.000	10351	8987	19338	bb	1.037	1.152	1.240	NO	94.2	0.492	0.492
123678-HxCDF	35.429	1.001	10585	8952	19538	db	1.035	1.182	1.240	NO	94.6	0.493	0.493
123789-HxCDF	37.500	1.000	9311	7489	16801	bb	0.987	1.243	1.240	NO	85.3	0.490	0.490
1234678-HpCDF	39.572	1.000	10429	9919	20348	bb	1.232	1.051	1.050	NO	246.1	0.509	0.509
1234789-HpCDF	42.290	1.001	7252	7572	14824	bb	1.215	0.958	1.050	NO	137.5	0.489	0.489
OCDF	47.620	1.006	11389	14077	25466	bb	1.138	0.809	0.890	NO	121.1	0.979	0.979
2378-TCDD	26.750	1.001	2061	2675	4736	bb	1.049	0.770	0.770	NO	20.2	0.109	0.109
12378-PeCDD	31.855	1.001	9330	6316	15646	bb	0.998	1.477	1.550	NO	58.1	0.497	0.497
123478-HxCDD	36.514	1.001	7902	6024	13926	bd	0.971	1.312	1.240	NO	76.4	0.469	0.469
123678-HxCDD	36.635	1.000	8132	5933	14065	db	0.918	1.370	1.240	NO	84.8	0.487	0.487
123789-HxCDD	37.062	1.012	7855	6930	14785	bb	0.932	1.133	1.240	NO	74.0	0.511	0.511
1234678-HpCDD	41.403	1.001	6787	7558	14345	MM	1.017	0.898	1.050	NO	94.8	0.529	0.529
OCDD	47.360	1.001	11430	12431	23860	bb	1.008	0.919	0.890	NO	160.1	1.035	1.035
13C-2378-TCDF	26.093	1.007	2828660	3619955	6448615	bb	1.473	0.781	0.770	NO	3101.3	100.398	100.398
13C-12378-PeCDF	30.233	1.167	3008237	1937844	4946081	bb	1.148	1.552	1.550	NO	11982.4	98.789	98.789
13C-23478-PeCDF	31.571	1.218	2946904	1886759	4833663	bb	1.113	1.562	1.550	NO	11263.7	99.593	99.593
13C-123478-HxCDF	35.254	0.951	1246027	2393443	3639470	bd	1.209	0.521	0.510	NO	4957.8	95.946	95.946
13C-123678-HxCDF	35.407	0.956	1322227	2510932	3833159	db	1.269	0.527	0.510	NO	5296.4	96.302	96.302
13C-234678-HxCDF	36.349	0.981	1301939	2491248	3793187	bb	1.236	0.523	0.510	NO	5273.9	97.829	97.829
13C-123789-HxCDF	37.489	1.012	1196154	2281905	3478058	bb	1.107	0.524	0.510	NO	4910.8	100.165	100.165
13C-1234678-HpCDF	39.561	1.068	1007048	2236531	3243579	bb	1.051	0.450	0.440	NO	4140.9	98.352	98.352
13C-1234789-HpCDF	42.269	1.141	780470	1716306	2496776	bb	0.815	0.455	0.440	NO	2662.4	97.677	97.677
13C-1234-TCDD	25.914	0.000	1924593	2437145	4361738	bb	1.000	0.790	0.770	NO	3730.8	100.000	100.000
13C-2378-TCDD	26.736	1.032	1812636	2336375	4149011	bb	0.946	0.776	0.770	NO	3358.5	100.581	100.581
13C-12378-PeCDD	31.834	1.228	1933049	1219518	3152566	bb	0.721	1.585	1.550	NO	12611.4	100.292	100.292
13C-123478-HxCDD	36.492	0.985	1707469	1348165	3055633	bd	0.991	1.266	1.240	NO	3619.9	98.289	98.289
13C-123678-HxCDD	36.624	0.988	1743110	1403686	3146797	db	1.025	1.242	1.240	NO	3657.2	97.880	97.880
13C-1234678-HpCDD	41.381	1.117	1370276	1297335	2667611	bb	0.866	1.056	1.050	NO	7173.0	98.161	98.161
13C-OCDD	47.324	1.277	2150377	2420502	4570879	bb	0.769	0.888	0.890	NO	10573.6	189.417	189.417

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

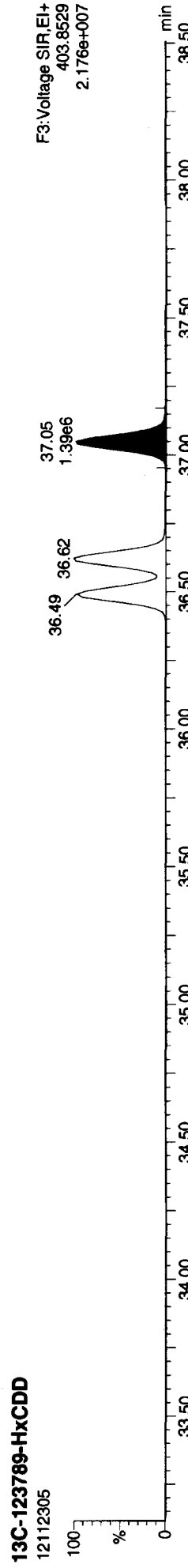
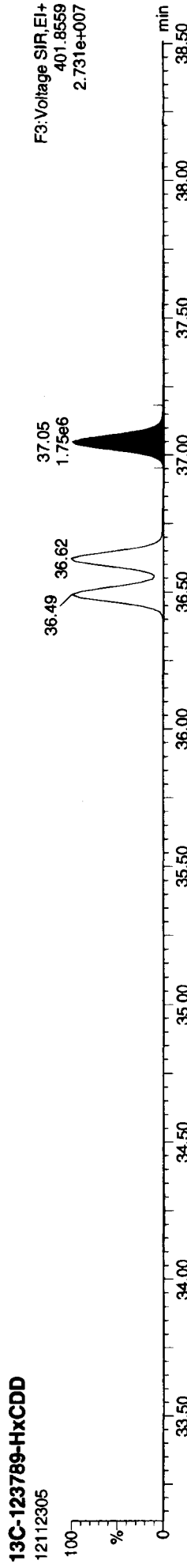
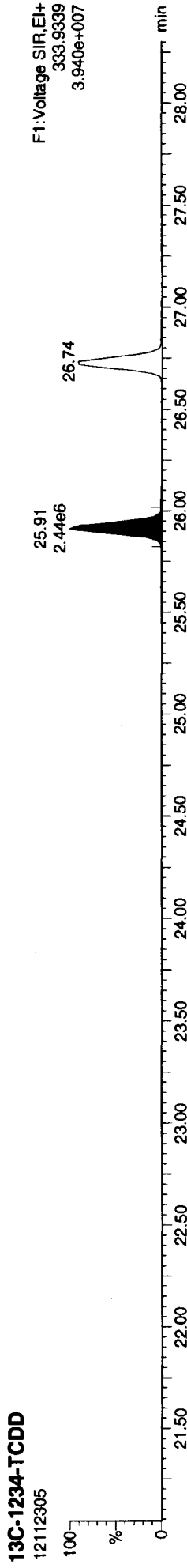
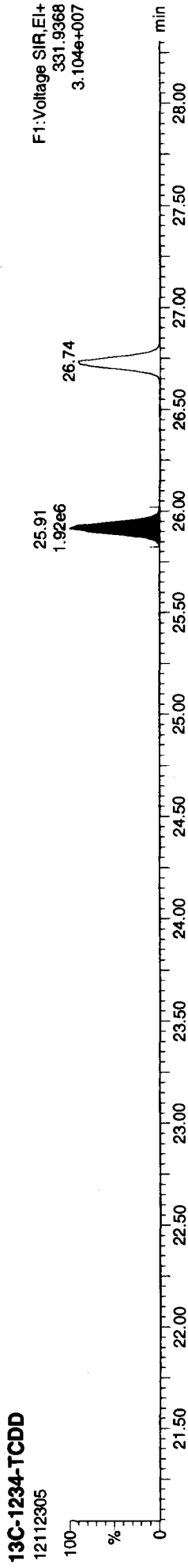
	13C-123789-HxCDD	37.051	0.000	1749085	1389442	3137527	bb	1.000	1.258	1.240	NO	3635.0	0.111	100.000
Total-tetrafurans				2721				0.877					0.111	0.111
Total-penta1				0										
Total-pentafurans				27292				0.911					1.030	1.026
Total-hexafurans				40868				1.032					1.970	1.970
Total-heptafurans				17682				1.223					0.998	0.998
Total-Furans				99953				1.041					5.088	5.084
Total-tetradioxins				2061				1.049					0.109	0.109
Total-pentadioxins				9330				0.998					0.497	0.497
Total-hexadioxins				23888				0.940					1.468	1.468
Total-heptadioxins				6787				1.017					0.529	0.529
Total-Dioxins				53495				0.985					3.638	3.638
Total-TEQ				153448									8.726	8.722
37CL-2378-TCDD		26.750	1.032	4783		4783		1.044				15.0		0.105
FUNCTION1 PFK				609450										0.000
FUNCTION2 PFK				1441384										0.000
FUNCTION3 PFK				894386										0.000
FUNCTION4 PFK				1005733										0.000
FUNCTION5 PFK				2477494										0.000
FUNCTION1 HXCDPE				1692										0.000
FUNCTION1 HPCDPE				2571										0.000
FUNCTION2 HPCDPE				1054										0.000
FUNCTION3 OCDPE				157										0.000
FUNCTION4 NCDPE				401										0.000
FUNCTION5 DCDPE				0										0.000

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qid
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

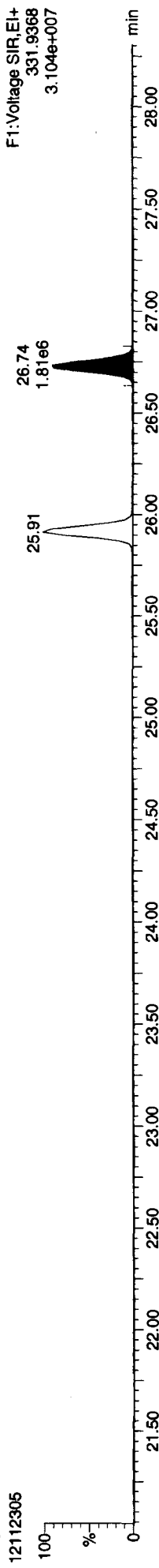


Quantify Sample Report MassLynx 4.1 SCN 714

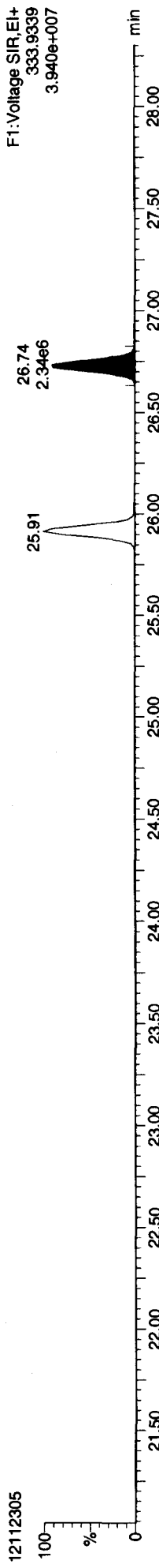
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

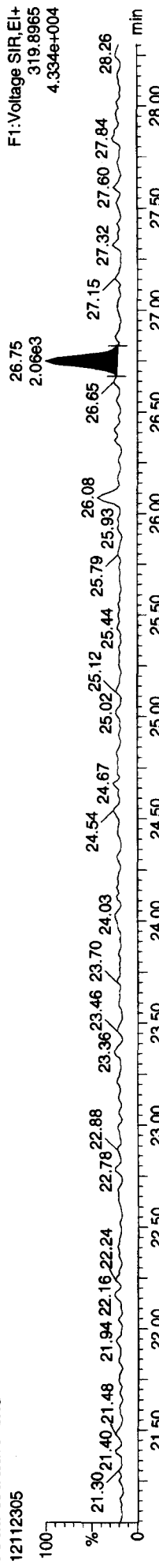
13C-2378-TCDD



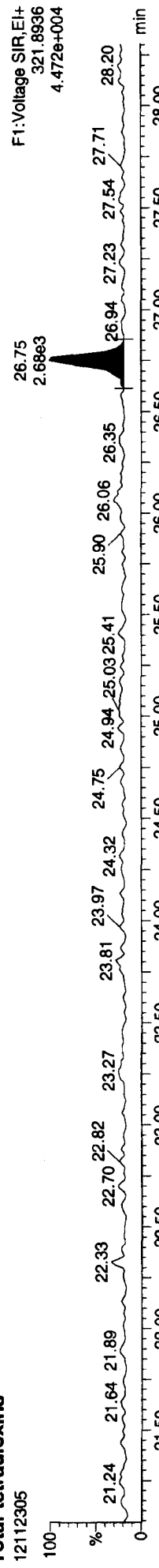
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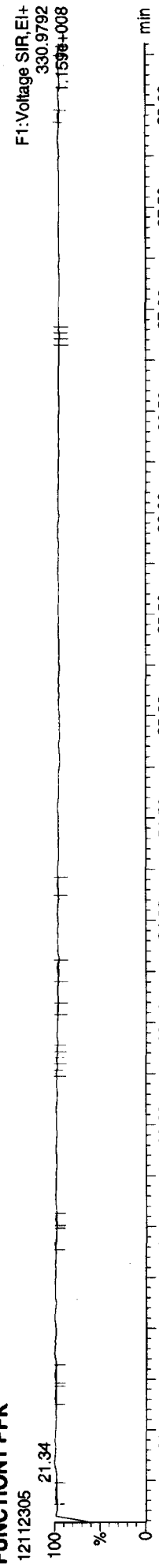
Total-tetradoxins



Total-tetradoxins



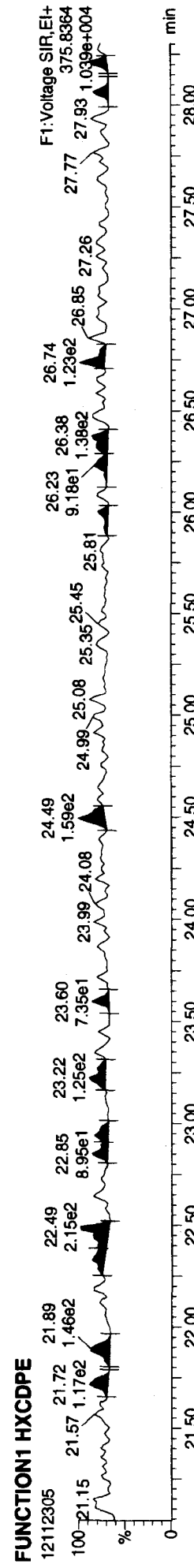
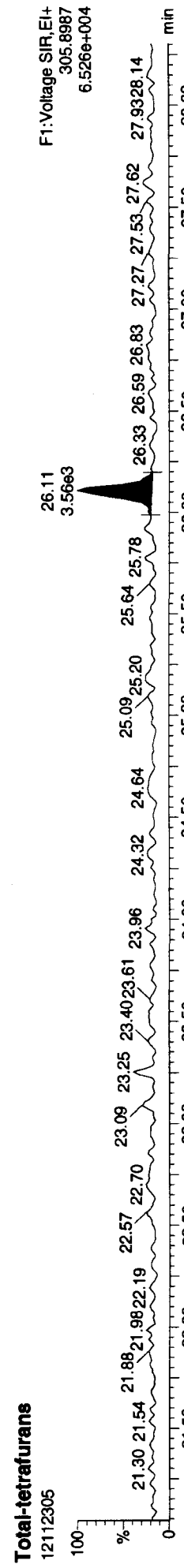
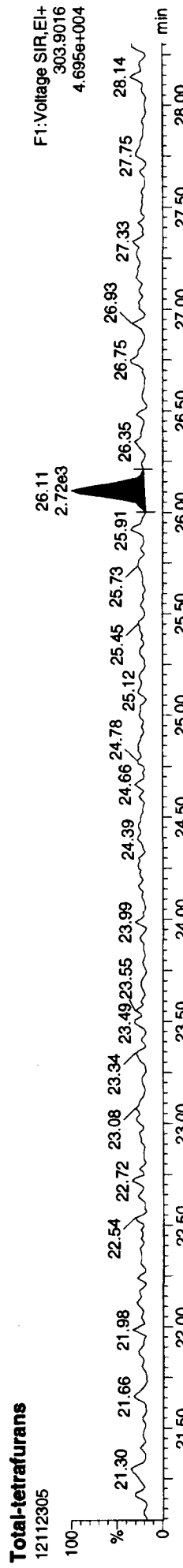
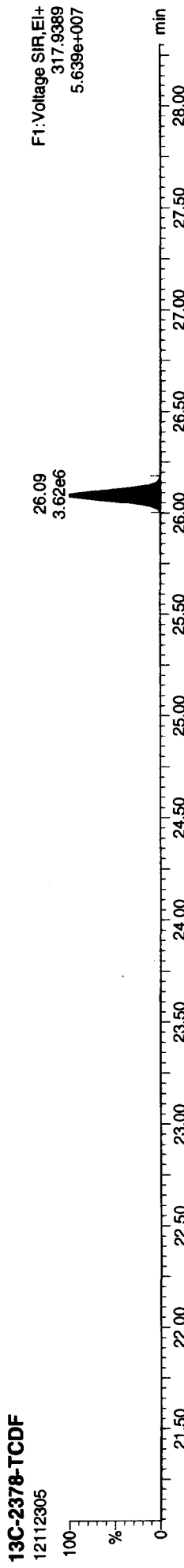
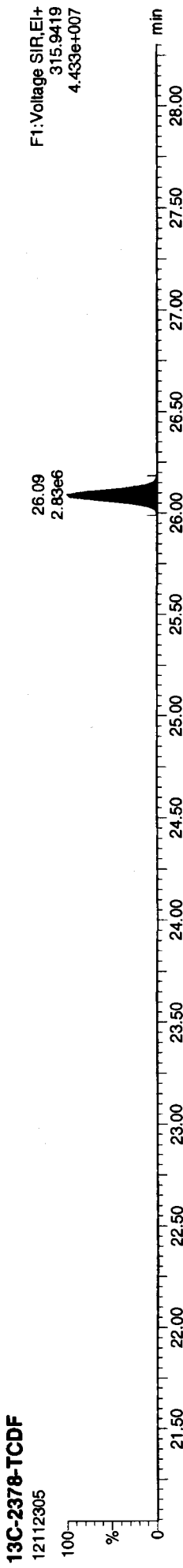
FUNCTION1 PFK



Quantity Sample Report **Masslynx 4.1 SCN 714**

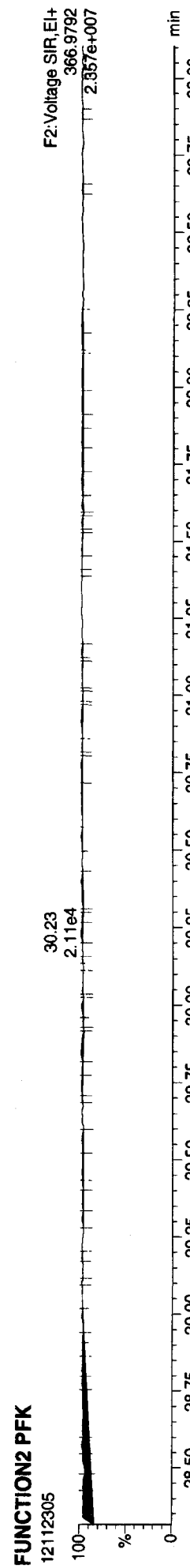
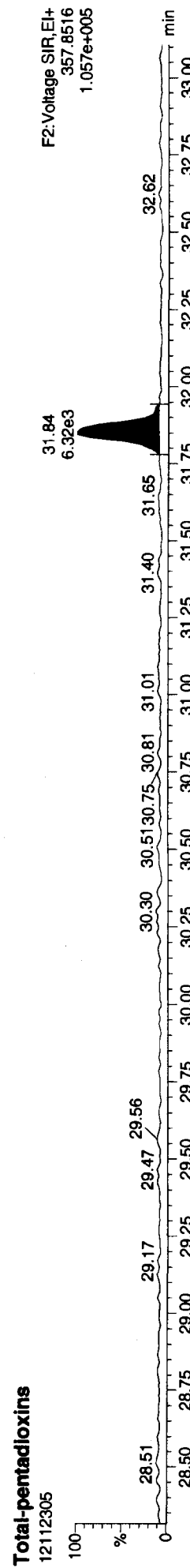
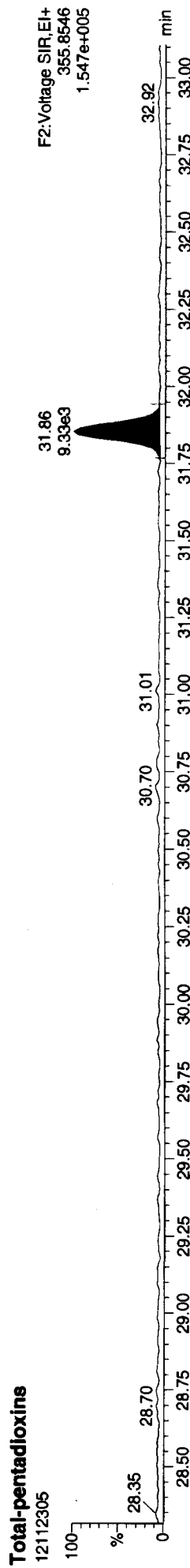
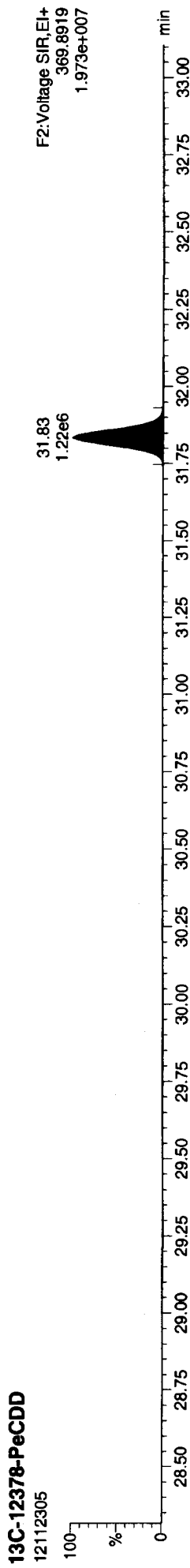
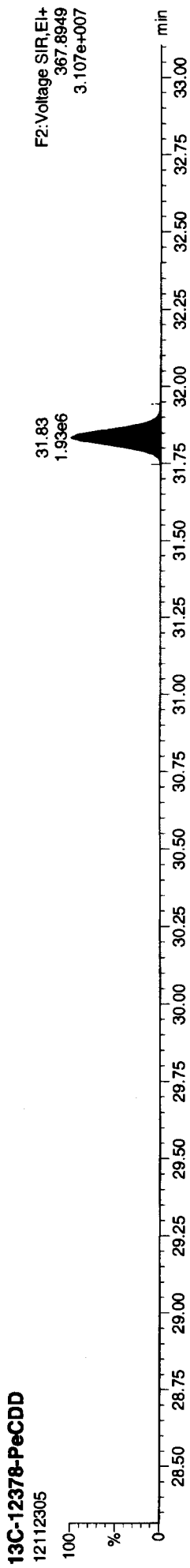
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

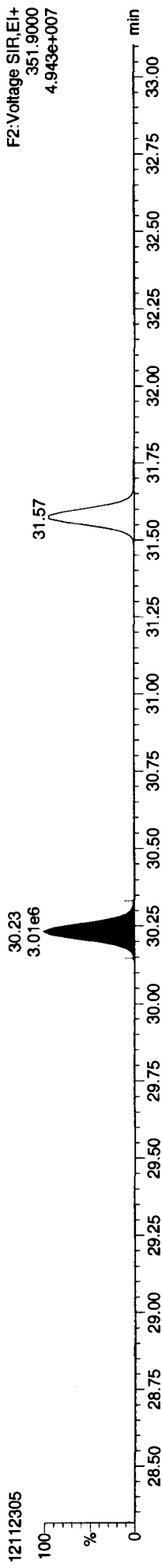


Quantify Sample Report **MassLynx 4.1 SCN 714**

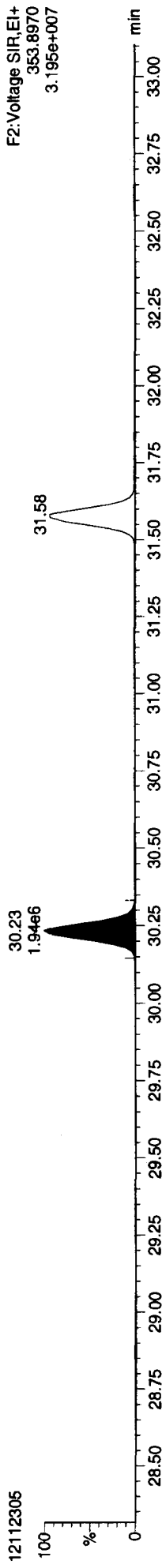
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

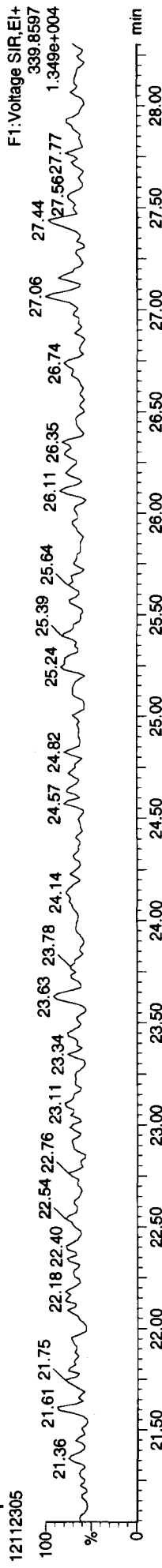
13C-12378-PeCDF



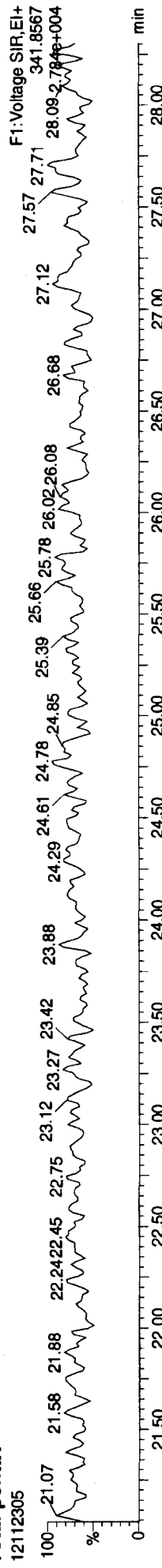
13C-12378-PeCDF



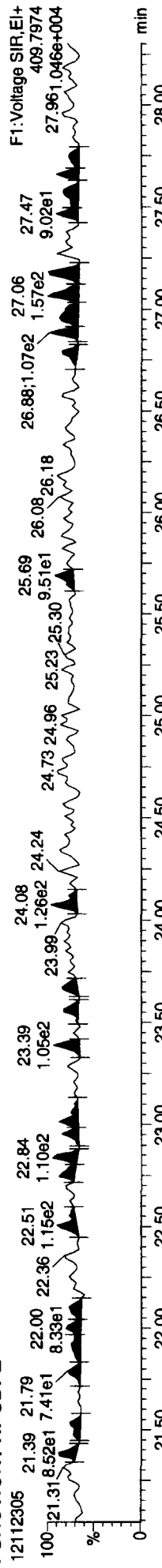
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

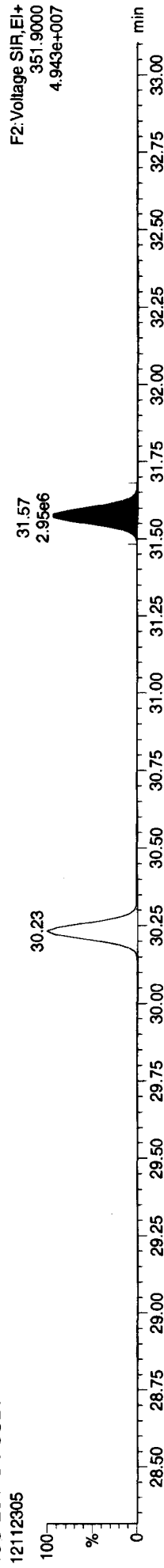


Quantity Sample Report MassLynx 4.1 SCN 714

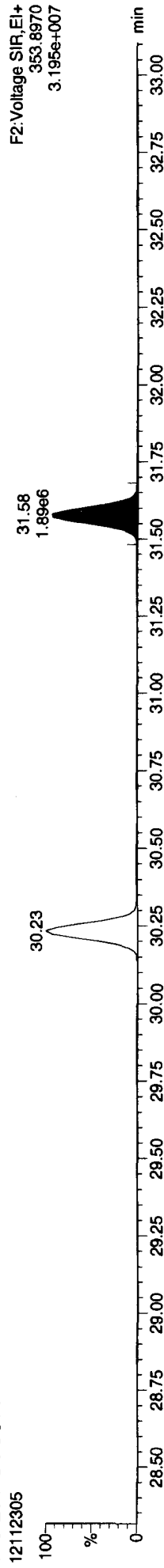
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

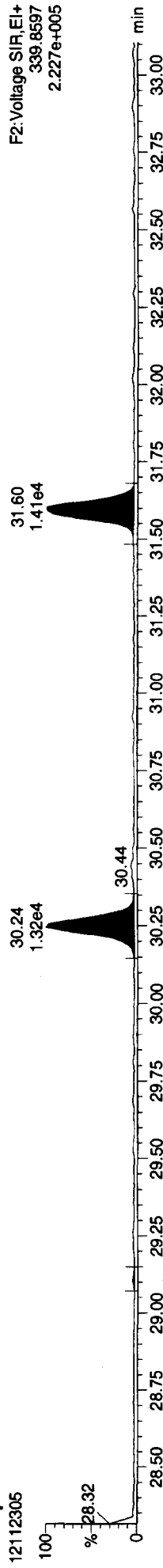
13C-23478-PeCDF



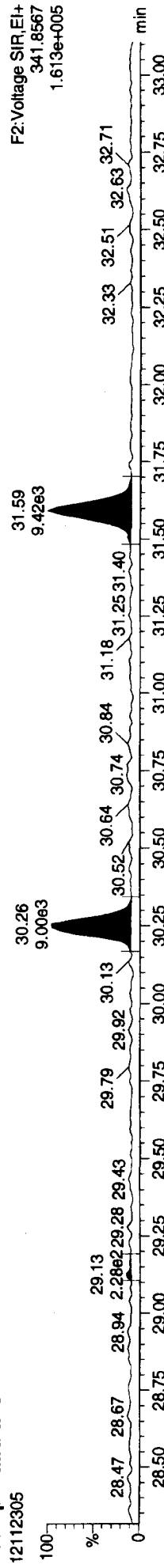
13C-23478-PeCDF



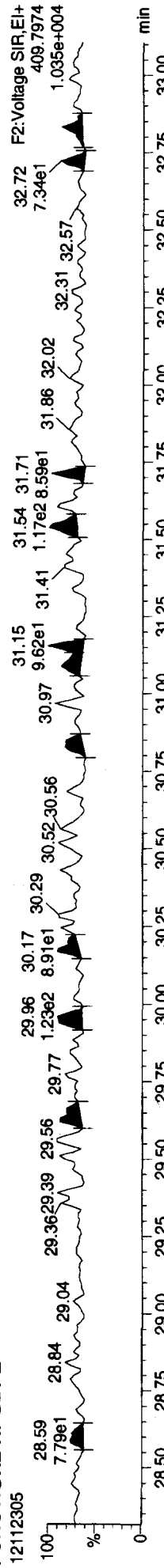
Total-pentafurans



Total-pentafurans



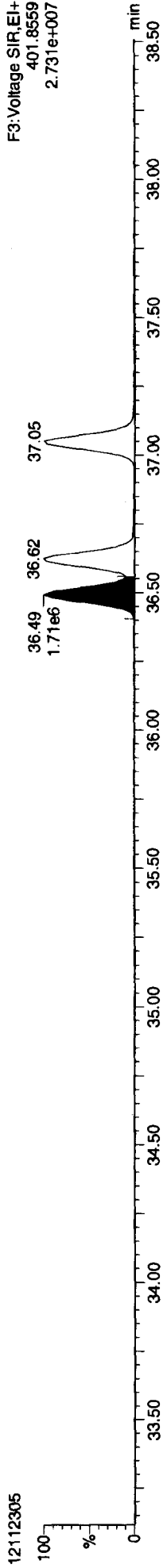
FUNCTION2 HPCDPE



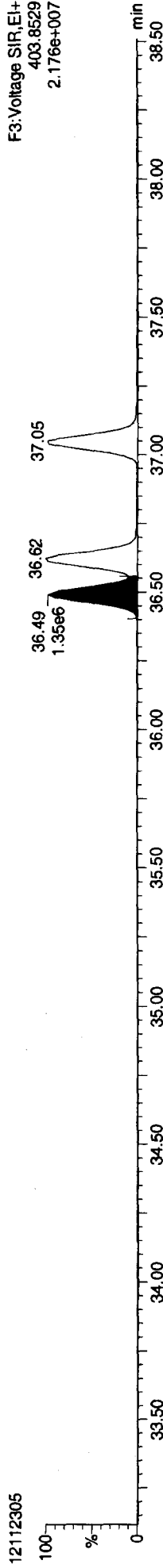
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

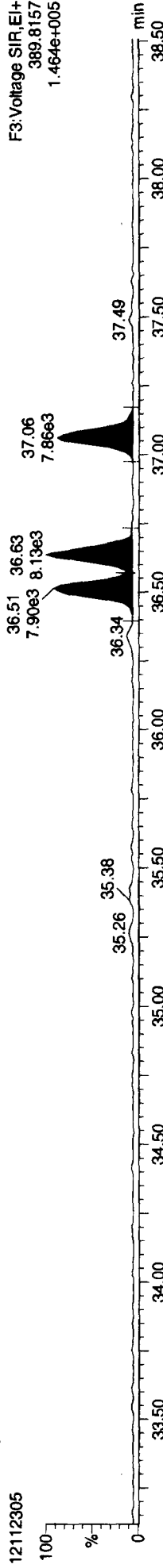
13C-123478-HxCDD



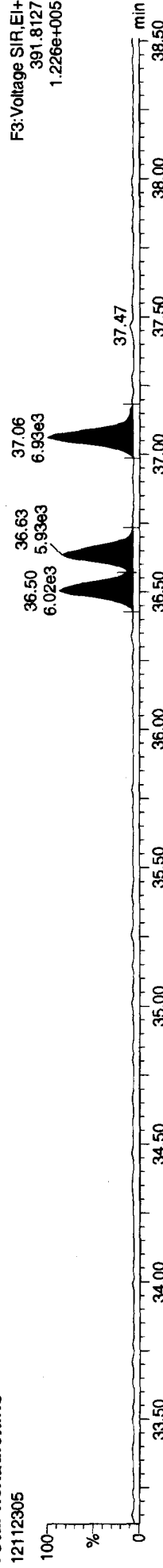
13C-123478-HxCDD



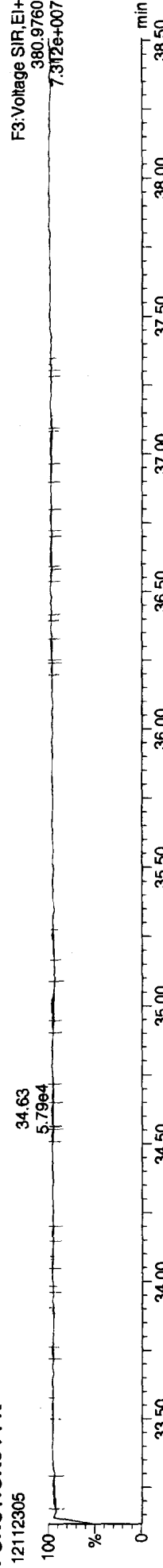
Total-hexadioxins



Total-hexadioxins



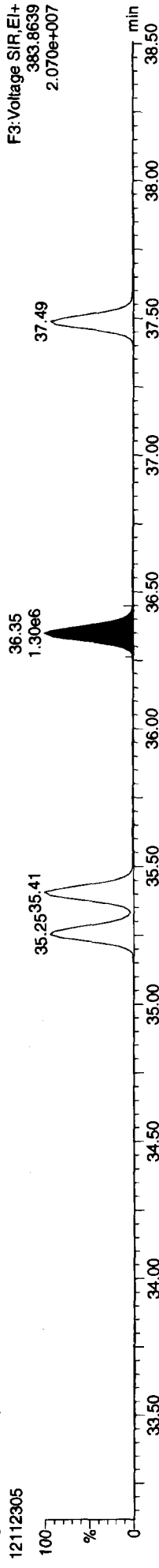
FUNCTION3 PFK



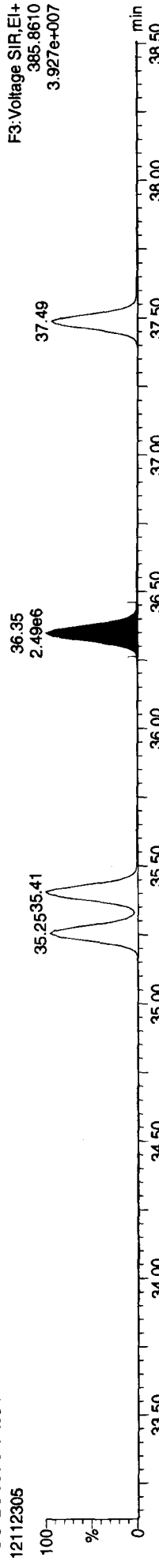
Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

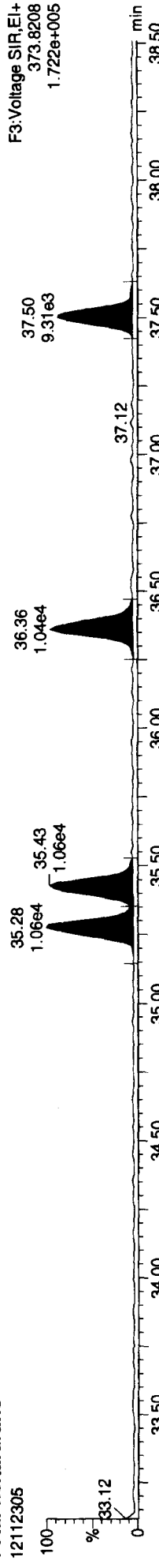
13C-234678-HxCDF



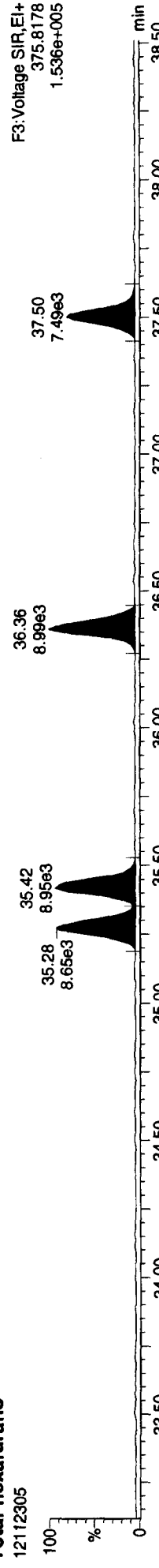
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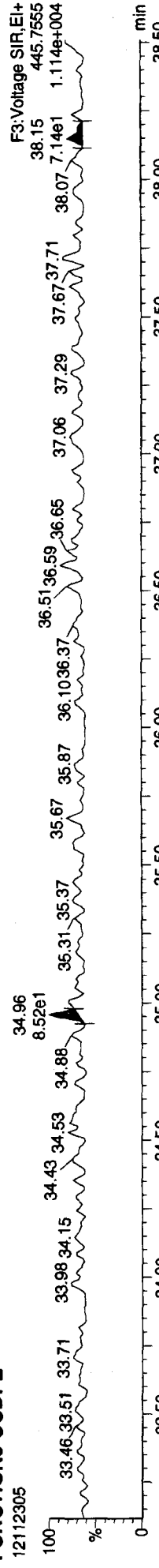
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



Quantity Sample Report Masslynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

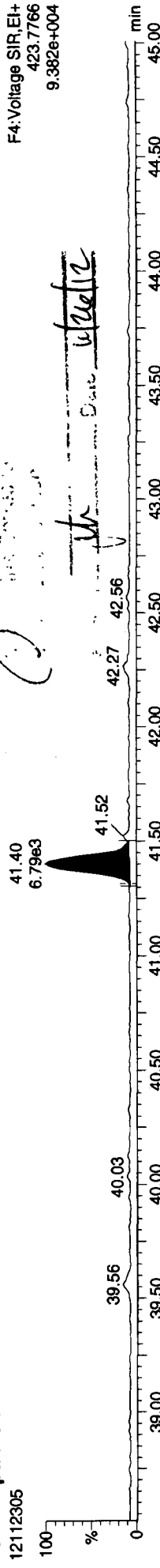
13C-1234678-HpCDD



13C-1234678-HpCDD



Total-heptadioxins



Total-heptadioxins



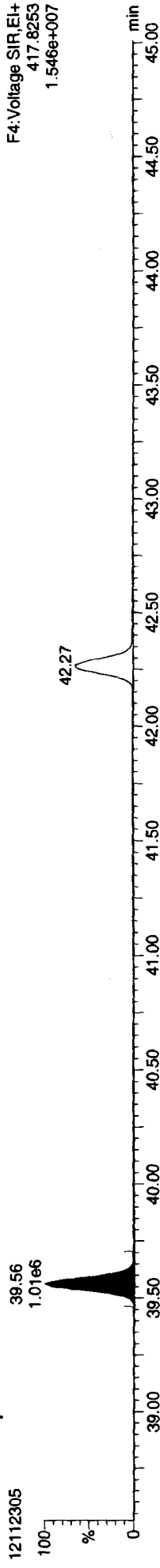
FUNCTION4 PFK



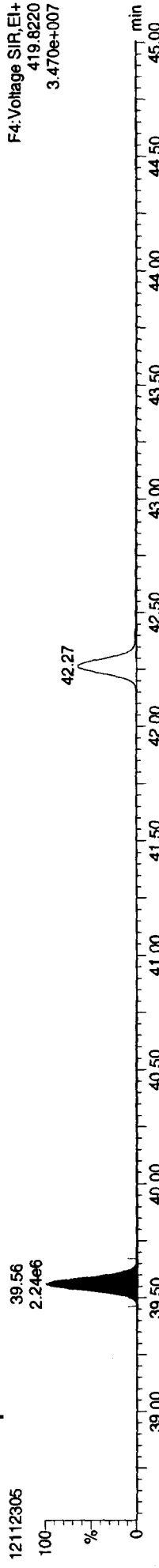
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

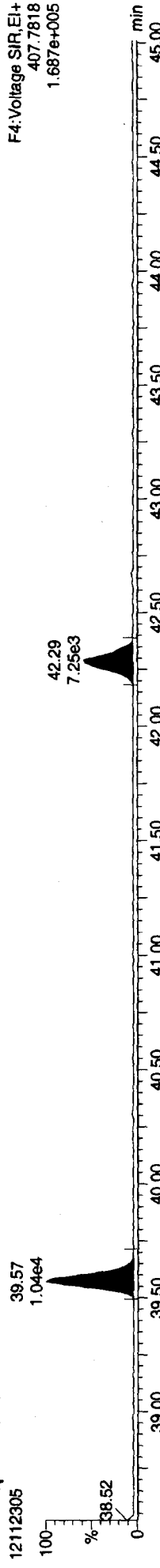
13C-1234678-HpCDF



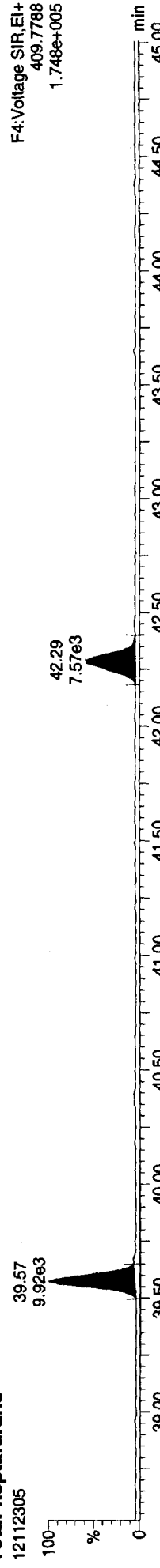
13C-1234678-HpCDF



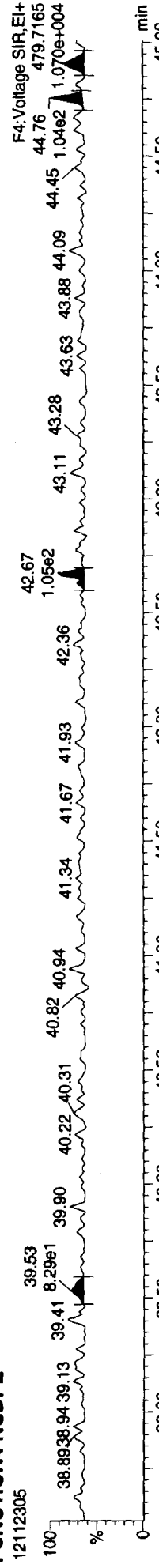
Total-heptafurans



Total-heptafurans



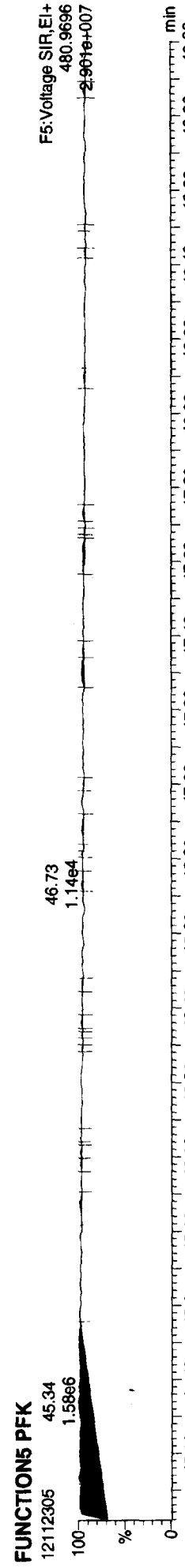
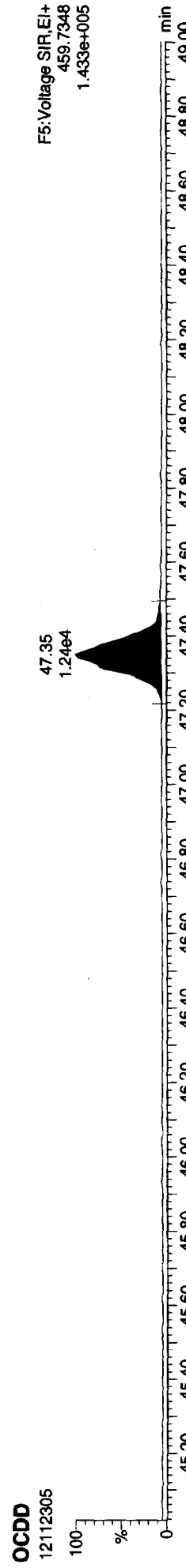
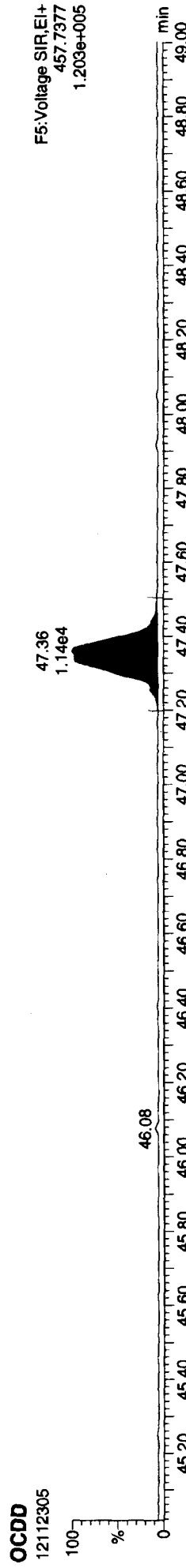
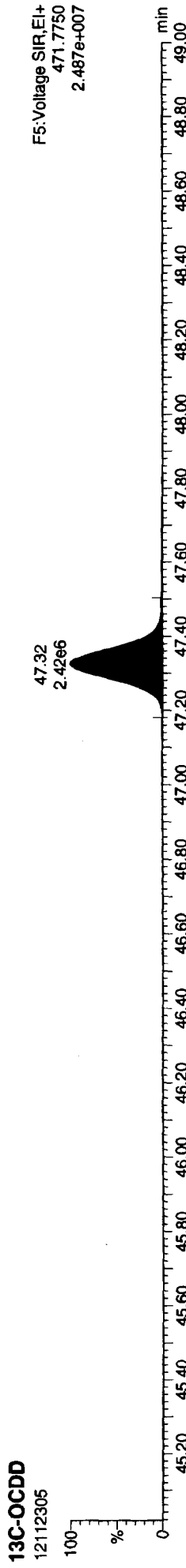
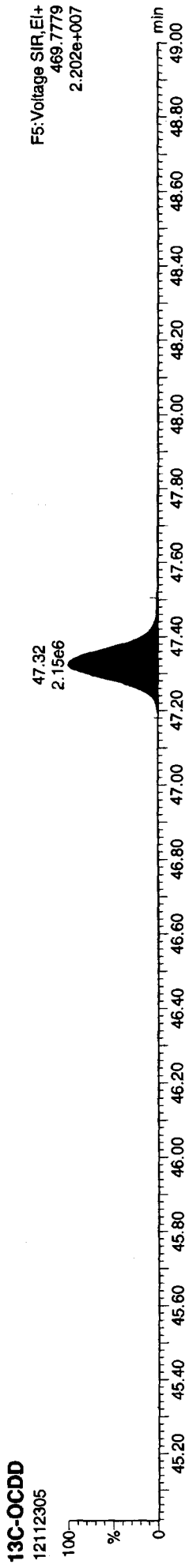
FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qid
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

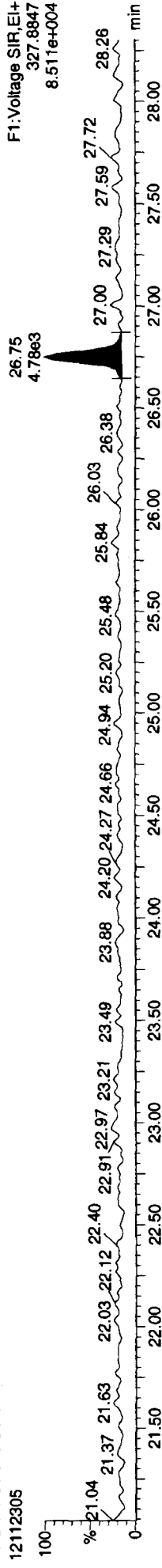


Quantify Sample Report MassLynx 4.1 SCN 714

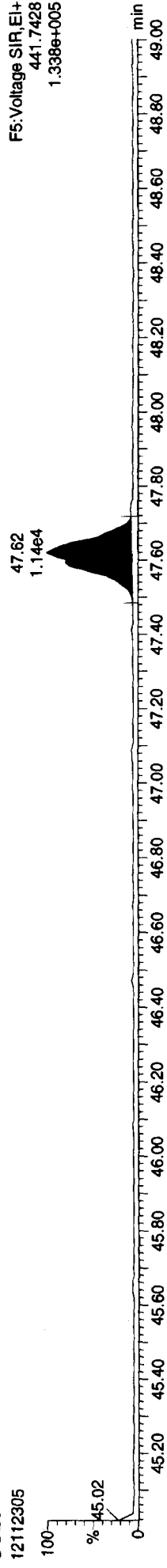
Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:22 Pacific Standard Time

Name: 12112305, Date: 23-Nov-2012, Time: 14:07:24, ID: CSL, Conditions: AUTOSPEC01, User: pk

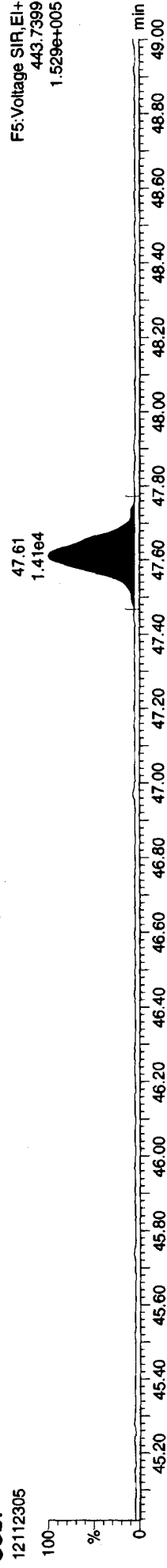
37CL-2378-TCDD



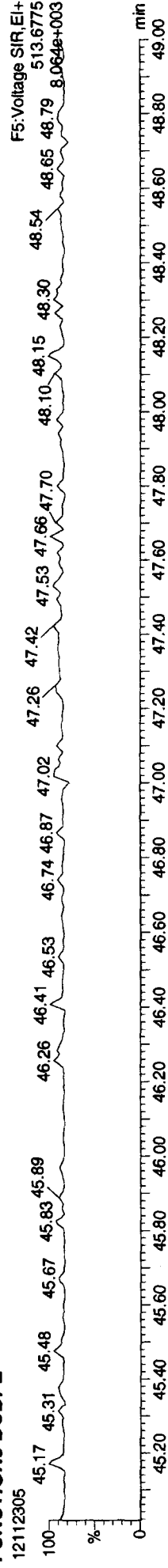
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DIoxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.108	1.001	12216	16488	28703	bb	0.877	0.741	0.770	NO	56.2	0.459
12378-PeCDF	30.244	1.000	72435	48313	120749	bb	0.896	1.499	1.550	NO	620.7	2.487
23478-PeCDF	31.593	1.000	68720	48070	116791	bb	0.926	1.430	1.550	NO	595.2	2.403
123478-HxCDF	35.276	1.001	57730	49910	107640	bd	1.068	1.157	1.240	NO	433.9	2.455
234678-HxCDF	36.372	1.001	55055	48545	103600	bb	1.037	1.134	1.240	NO	422.0	2.435
123678-HxCDF	35.429	1.001	57608	49995	107603	db	1.035	1.152	1.240	NO	430.2	2.439
123789-HxCDF	37.512	1.001	47713	39685	87398	bb	0.987	1.202	1.240	NO	358.3	2.442
1234678-HpCDF	39.583	1.001	51567	52049	103616	bd	1.232	0.991	1.050	NO	603.9	2.459
1234789-HpCDF	42.280	1.000	38385	39804	78188	bb	1.215	0.964	1.050	NO	434.8	2.463
OCDF	47.611	1.006	61819	69999	131818	bb	1.138	0.883	0.890	NO	82.5	4.825
2378-TCDD	26.750	1.001	10226	13178	23404	bb	1.049	0.776	0.770	NO	97.9	0.490
12378-PeCDD	31.856	1.001	50367	32017	82384	bb	0.998	1.573	1.550	NO	292.8	2.446
123478-HxCDD	36.514	1.001	43836	34707	78543	bd	0.971	1.263	1.240	NO	416.9	2.474
123678-HxCDD	36.646	1.001	43336	34466	77802	db	0.918	1.257	1.240	NO	405.1	2.510
123789-HxCDD	37.062	1.012	41351	34177	75528	bb	0.932	1.210	1.240	NO	381.7	2.437
1234678-HpCDD	41.403	1.001	33892	34520	68411	bb	1.017	0.982	1.050	NO	538.0	2.405
OCDD	47.351	1.001	57896	62884	120780	bb	1.008	0.921	0.890	NO	852.2	4.988
13C-2378-TCDF	26.093	1.007	3125337	4012399	7137736	bb	1.473	0.779	0.770	NO	4237.5	97.416
13C-12378-PeCDF	30.233	1.167	3301785	2114999	5416784	bb	1.148	1.561	1.550	NO	17270.4	94.843
13C-23478-PeCDF	31.582	1.219	3201033	2046897	5247930	bb	1.113	1.564	1.550	NO	16628.6	94.788
13C-123478-HxCDF	35.254	0.951	1405431	2998855	4104286	bd	1.209	0.521	0.510	NO	5175.9	102.848
13C-123678-HxCDF	35.407	0.956	1463292	2800353	4263645	db	1.269	0.522	0.510	NO	5333.5	101.818
13C-234678-HxCDF	36.350	0.981	1412262	2692036	4104298	bb	1.236	0.525	0.510	NO	5178.3	100.616
13C-123789-HxCDF	37.490	1.012	1247355	2380299	3627653	bb	1.107	0.524	0.510	NO	4683.8	99.305
13C-1234678-HpCDF	39.561	1.068	1057891	2363308	3421199	bb	1.051	0.448	0.440	NO	6262.1	98.606
13C-1234789-HpCDF	42.269	1.141	806343	1806364	2612707	bb	0.815	0.446	0.440	NO	4051.9	97.157
13C-1234-TCDD	25.914	0.000	2193198	2782410	4975608	bb	1.000	0.788	0.770	NO	3879.5	100.000
13C-2378-TCDD	26.736	1.032	1993810	2554211	4548021	bb	0.946	0.781	0.770	NO	3472.1	96.652
13C-12378-PeCDD	31.834	1.228	2063451	1310850	3374301	bb	0.721	1.574	1.550	NO	13022.7	94.102
13C-123478-HxCDD	36.492	0.985	1822913	1447254	3270167	bd	0.991	1.260	1.240	NO	4399.1	98.986
13C-123678-HxCDD	36.624	0.988	1868627	1508180	3376807	db	1.025	1.239	1.240	NO	4451.9	98.839
13C-1234678-HpCDD	41.381	1.117	1435075	1362100	2797175	bb	0.866	1.054	1.050	NO	5709.2	97.837
13C-OCDD	47.324	1.277	2276928	2525708	4802636	bb	0.769	0.901	0.890	NO	9263.8	189.175

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

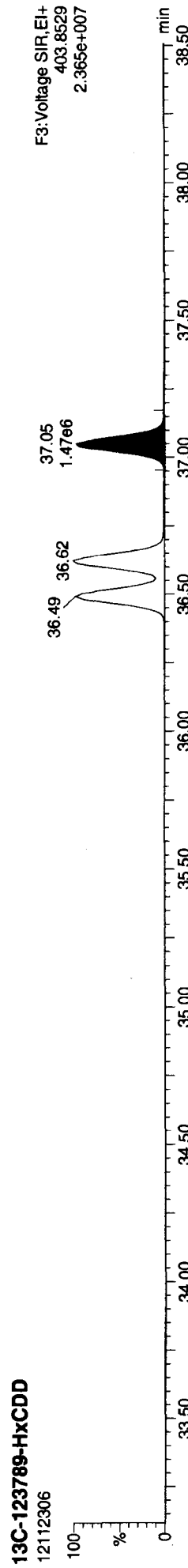
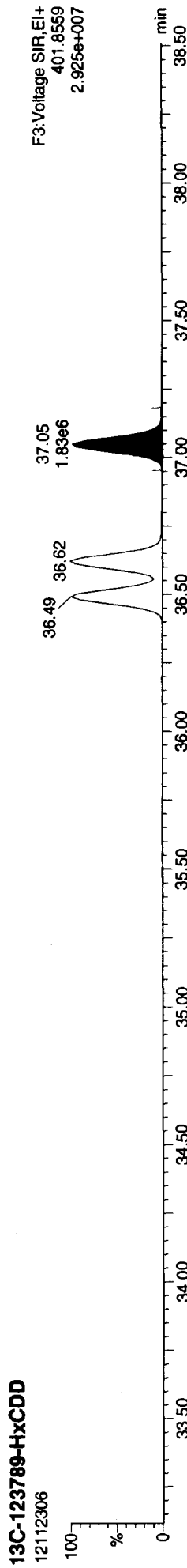
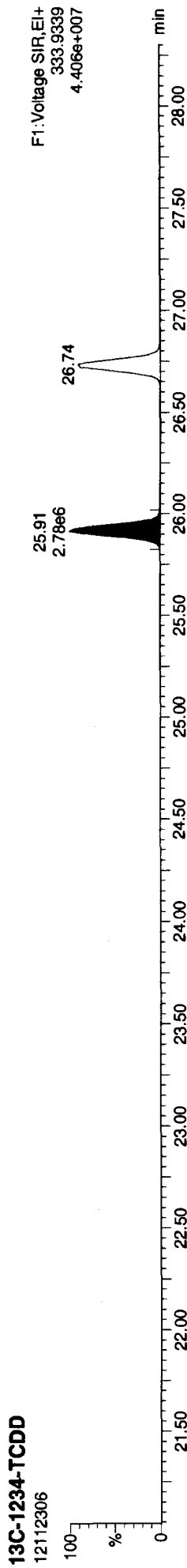
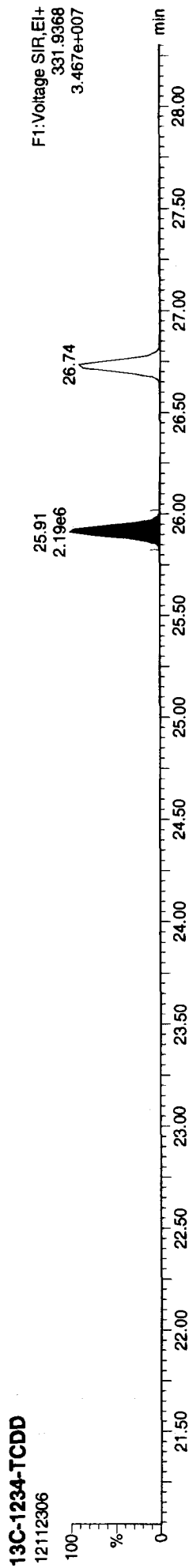
	1833369	1467445	3300814	bb	1,000	1,249	1,240	NO	4356.6		
13C-123789-HxCDD	37.051	0.000									
Total-tetrafurans	12216			0.877						0.459	100.000
Total-penta1	0									0.003	0.000
Total-pentafurans	141156			0.911						4.917	4.890
Total-hexafurans	218106			1.032						9.771	9.771
Total-heptafurans	90098			1.223						4.929	4.929
Total-Furans	523394			1.041						24.904	24.875
Total-tetradioxins	10713			1.049						0.519	0.515
Total-pentadioxins	50367			0.998						2.446	2.446
Total-hexadioxins	128522			0.940						7.440	7.421
Total-heptadioxins	33892			1.017						2.405	2.405
Total-Dioxins	281389			0.985						17.798	17.775
Total-TEQ	804783									42.702	42.650
37CL-2378-TCDD	26.750	1.032	25878	1.044					121.7		0.498
FUNCTION1 PFK	2955590										0.000
FUNCTION2 PFK	179826										0.000
FUNCTION3 PFK	1137925										
FUNCTION4 PFK	658912										
FUNCTION5 PFK	424915										
FUNCTION1 HXCDPE	1010										0.000
FUNCTION1 HPCDPE	1355										0.000
FUNCTION2 HPCDPE	1117										0.000
FUNCTION3 OCDPE	324										0.000
FUNCTION4 NCDPE	0										
FUNCTION5 DCDPE	0										

Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Ioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

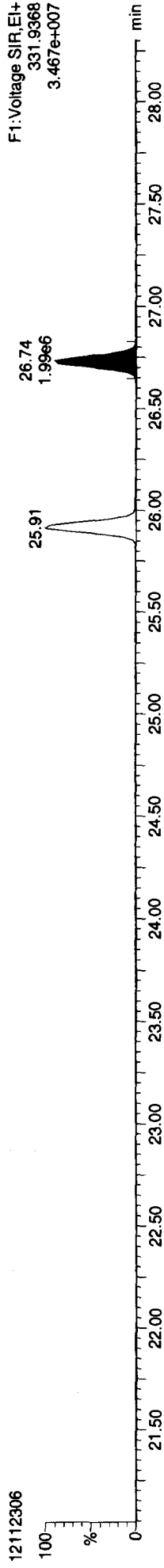


Quantify Sample Report MassLynx 4.1 SCN 714

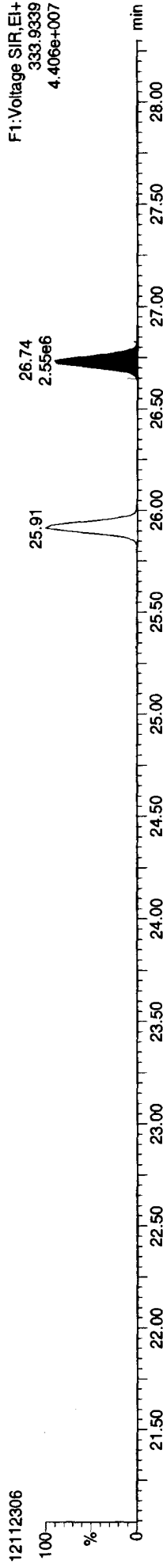
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

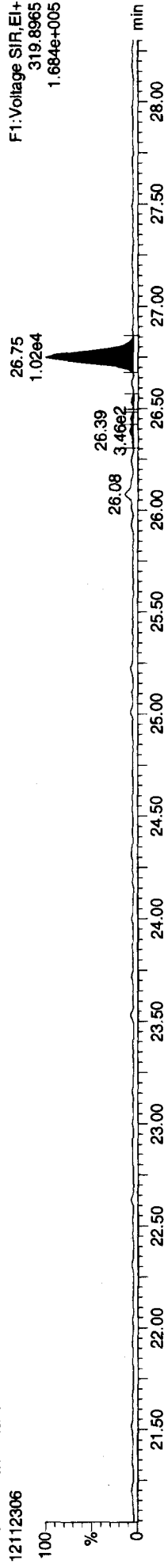
13C-2378-TCDD



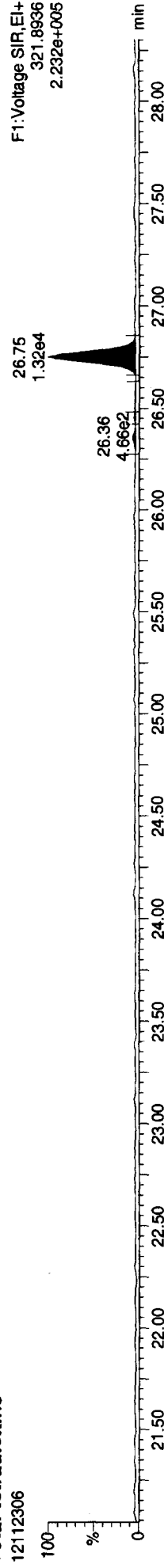
13C-2378-TCDD



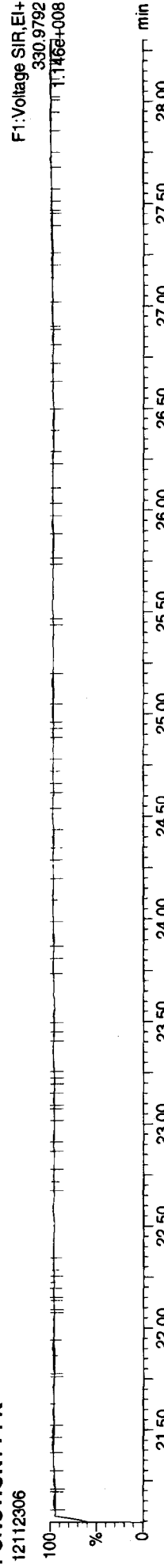
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

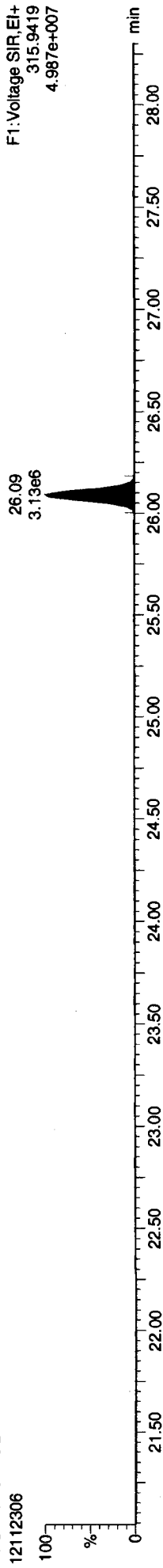


Quantify Sample Report MassLynx 4.1 SCN 714

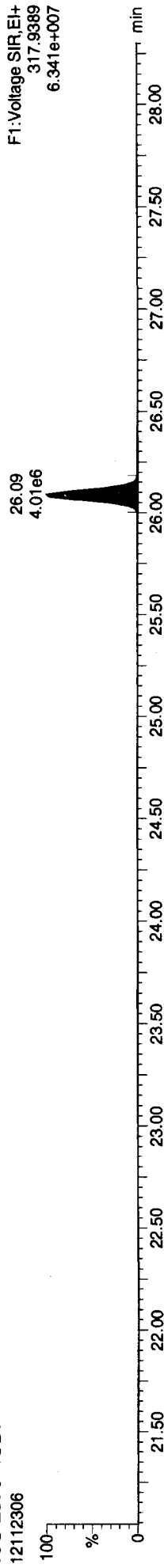
Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

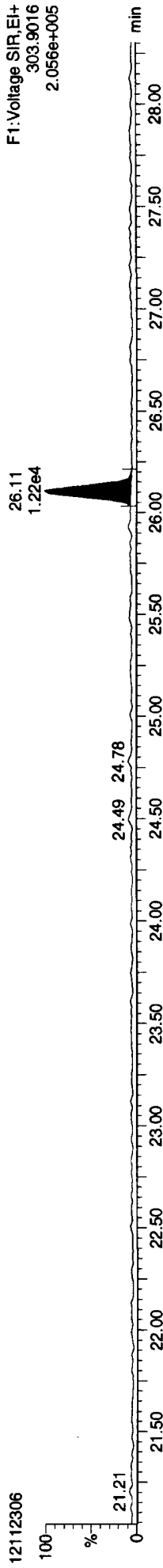
13C-2378-TCDF



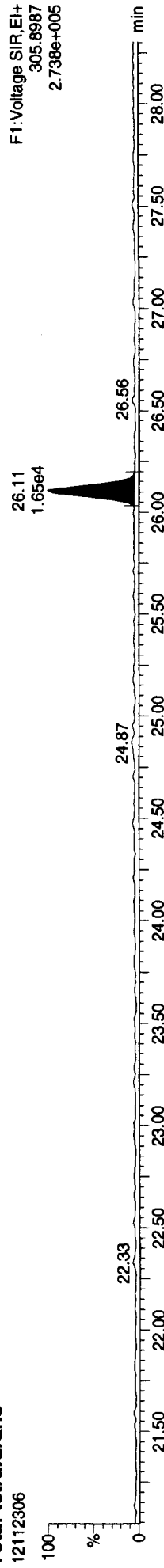
13C-2378-TCDF



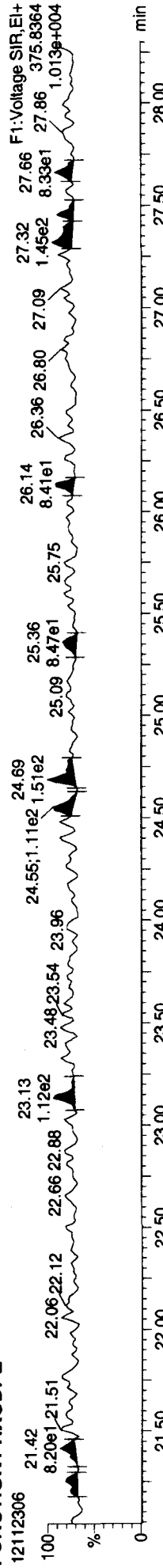
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE

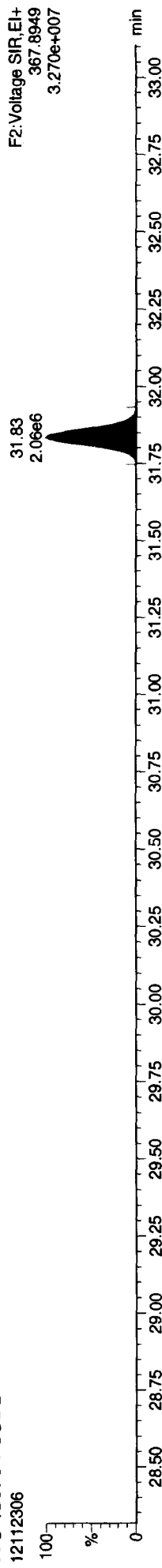


Quantity Sample Report MassLynx 4.1 SCN 714

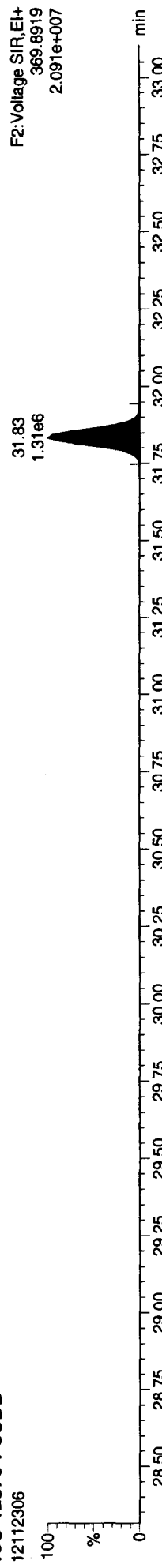
Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

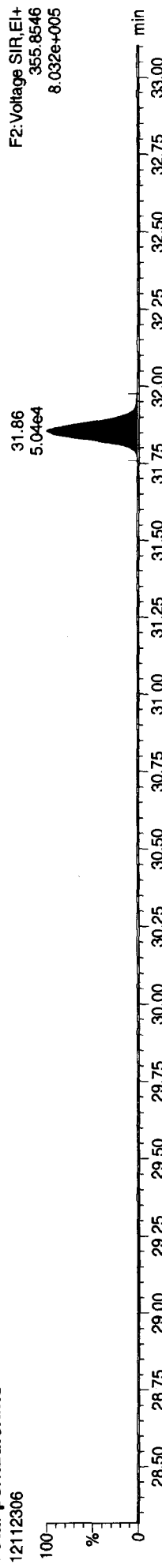
13C-12378-PeCDD



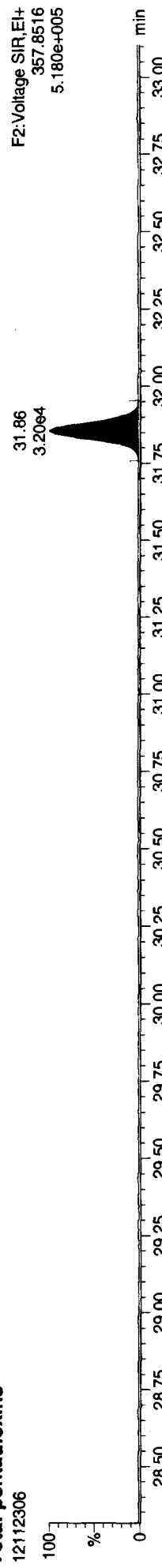
13C-12378-PeCDD



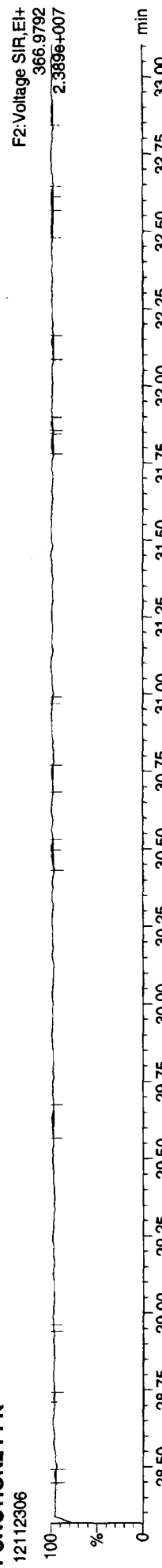
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

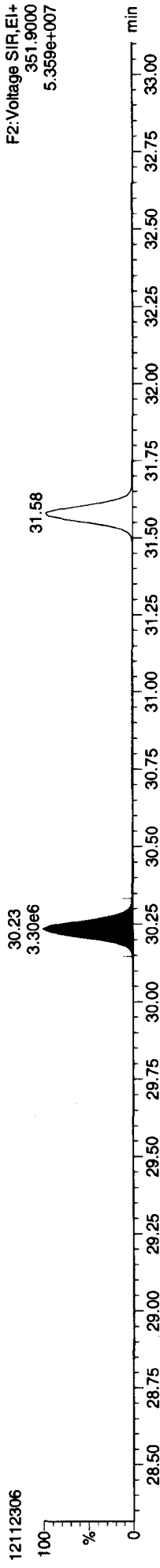


Quantify Sample Report MassLynx 4.1 SCN 714

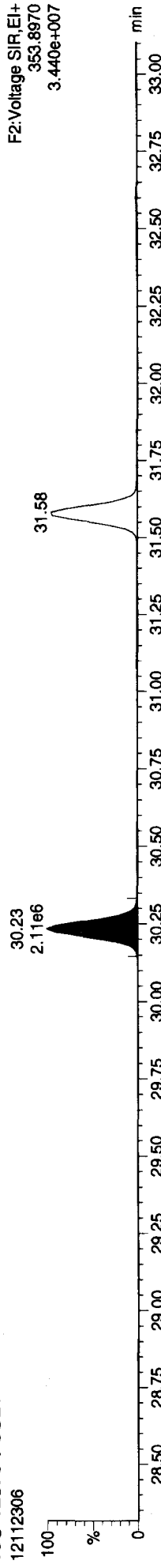
Dataset: P:\DIOX\IN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

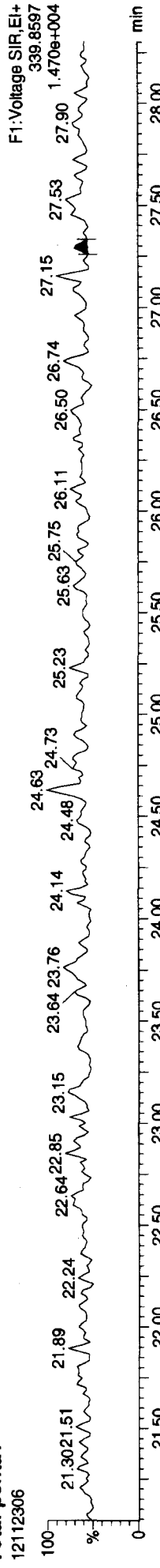
13C-12378-PeCDF



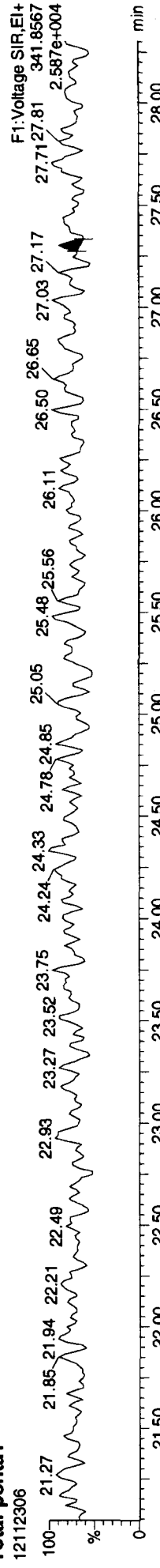
13C-12378-PeCDF



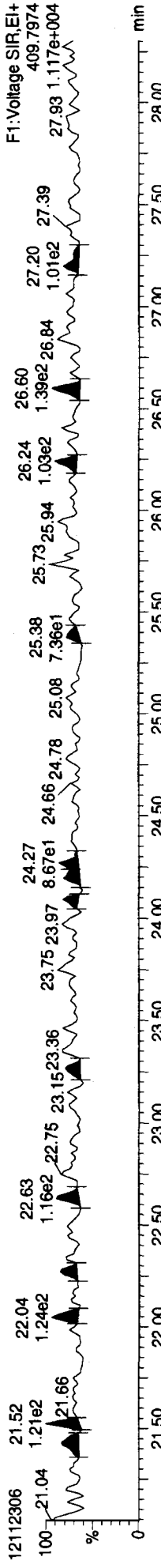
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

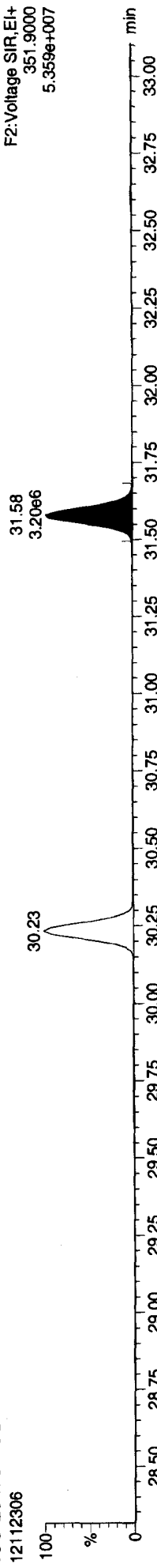


Quantify Sample Report MassLynx 4.1 SCN 714

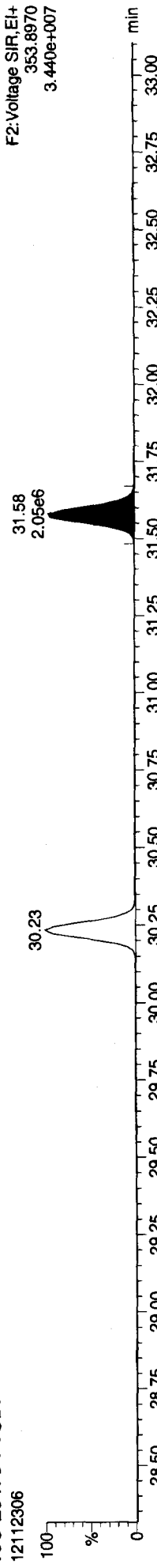
Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

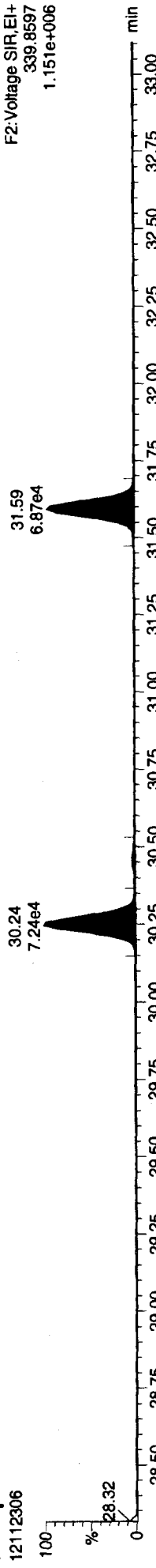
13C-23478-PeCDF



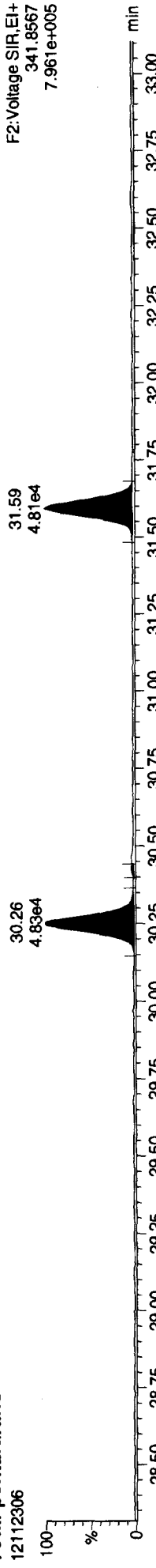
13C-23478-PeCDF



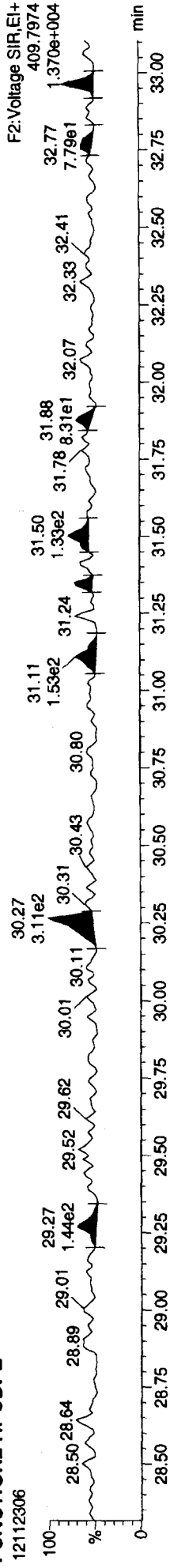
Total-pentafulurans



Total-pentafulurans



FUNCTION2 HPCDPE

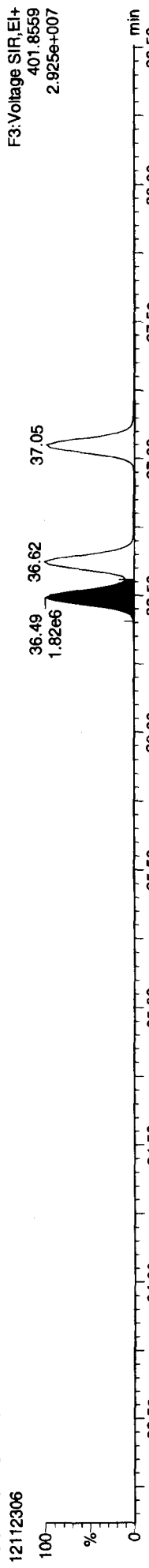


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:35:31 Pacific Standard Time

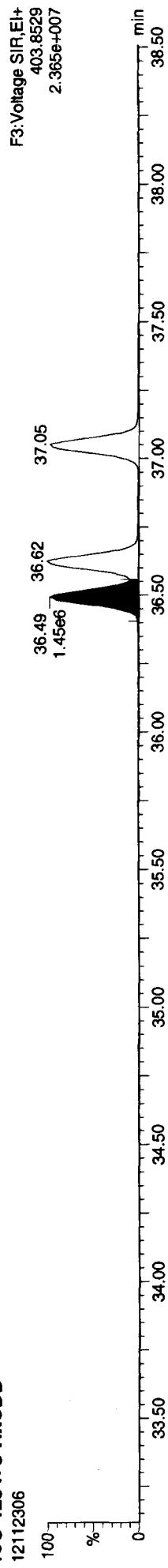
Name: 12112306, Date: 23-Nov-2012, Time: 15:02:34, ID: CS1, Conditions: AUTOSPEC01, User: pk

13C-123478-HxCDD



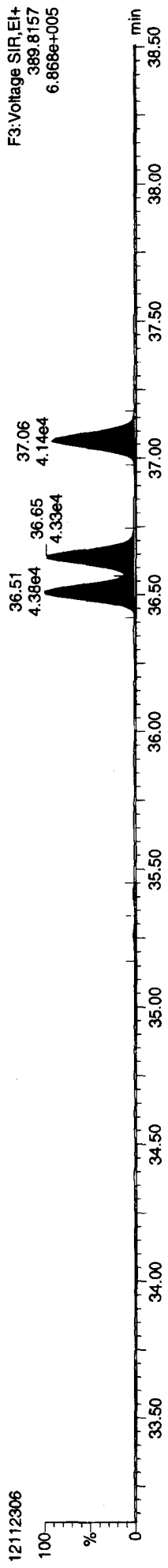
F3: Voltage SIR, EI+
401.8559
2.925e+007

13C-123478-HxCDD



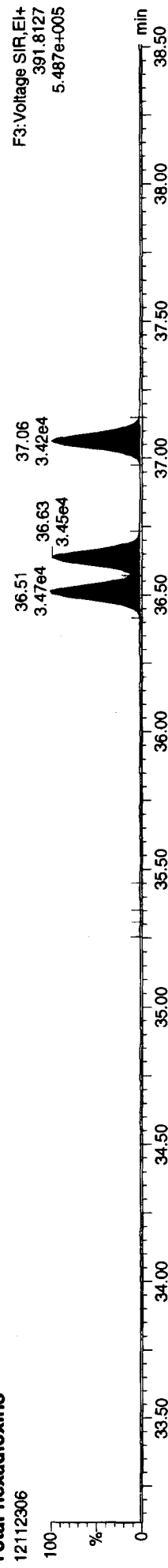
F3: Voltage SIR, EI+
403.8529
2.365e+007

Total-hexadioxins



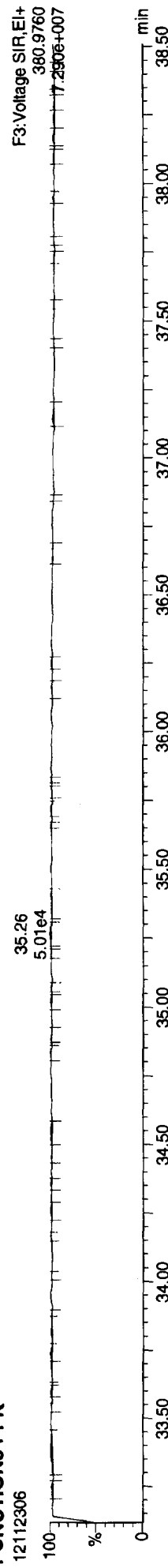
F3: Voltage SIR, EI+
389.8157
6.868e+005

Total-hexadioxins



F3: Voltage SIR, EI+
391.8127
5.487e+005

FUNCTION3 PFK



F3: Voltage SIR, EI+
380.9760
7.290e+007

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurvedB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.108	1.001	51837	72489	124327	bb	0.877	0.715	0.770	NO	345.2	1.956
12378-PeCDF	30.256	1.000	281153	192278	473431	bb	0.896	1.462	1.550	NO	2392.0	9.742
23478-PeCDF	31.604	1.001	282981	194793	477774	bb	0.926	1.453	1.550	NO	2353.8	9.716
123478-HxCDF	35.287	1.001	238121	200406	438527	bd	1.068	1.188	1.240	NO	1846.2	9.869
234678-HxCDF	36.373	1.000	241007	201891	442898	bd	1.037	1.194	1.240	NO	1849.6	9.964
123678-HxCDF	35.430	1.000	239972	200501	440473	db	1.035	1.197	1.240	NO	1872.0	9.795
123789-HxCDF	37.513	1.000	211399	175671	387069	bd	0.987	1.203	1.240	NO	1673.8	10.002
1234678-HpCDF	39.584	1.000	217217	224957	442174	bb	1.232	0.966	1.050	NO	2178.2	9.748
1234789-HpCDF	42.292	1.001	177429	180963	358291	bb	1.215	0.981	1.050	NO	1554.9	9.872
OCDF	47.620	1.006	287498	335589	623087	bb	1.138	0.857	0.890	NO	1773.2	19.749
2378-TCDD	26.751	1.001	39415	52619	92034	bb	1.049	0.749	0.770	NO	513.8	1.918
12378-PeCDD	31.867	1.001	204983	133070	338053	bb	0.998	1.540	1.550	NO	1626.8	9.917
123478-HxCDD	36.515	1.000	183339	145606	328945	bd	0.971	1.259	1.240	NO	1719.6	10.010
123678-HxCDD	36.646	1.001	176782	144059	320841	db	0.918	1.227	1.240	NO	1698.4	9.844
123789-HxCDD	37.074	1.012	172609	145821	318430	bb	0.932	1.184	1.240	NO	1635.7	9.850
1234678-HpCDD	41.404	1.000	158131	150290	308420	bd	1.017	1.052	1.050	NO	1904.4	9.780
OCDD	47.351	1.000	256998	287575	544573	bb	1.008	0.894	0.890	NO	2315.8	19.472
13C-2378-TCDF	26.093	1.006	3199308	4052299	7251607	bb	1.473	0.789	0.770	NO	5844.0	104.358
13C-12378-PeCDF	30.245	1.166	3311487	2111169	5422656	bb	1.148	1.569	1.550	NO	17141.8	100.114
13C-23478-PeCDF	31.582	1.218	3236019	2073470	5309490	bb	1.113	1.561	1.550	NO	16657.4	101.121
13C-123478-HxCDF	35.265	0.952	1414831	2744770	4159601	bd	1.209	0.516	0.510	NO	6165.5	98.873
13C-123678-HxCDF	35.419	0.956	1493929	2862757	4346687	db	1.269	0.518	0.510	NO	6455.2	98.463
13C-234678-HxCDF	36.361	0.981	1475325	2812086	4287412	bb	1.236	0.525	0.510	NO	6374.8	99.700
13C-123789-HxCDF	37.501	1.012	1349021	2573186	3922207	bb	1.107	0.524	0.510	NO	5790.9	101.847
13C-1234678-HpCDF	39.573	1.068	1132555	2549678	3682233	bb	1.051	0.444	0.440	NO	5683.3	100.672
13C-1234789-HpCDF	42.270	1.141	916417	2070563	2986980	bb	0.815	0.443	0.440	NO	3962.3	105.362
13C-1234-TCDD	25.929	0.000	2086833	2631897	4718730	bb	1.000	0.793	0.770	NO	5013.4	100.000
13C-2378-TCDD	26.736	1.031	2001661	2571492	4573154	bb	0.946	0.778	0.770	NO	4839.6	102.476
13C-12378-PeCDD	31.845	1.228	2089989	1326662	3415651	bb	0.721	1.575	1.550	NO	16001.3	100.440
13C-123478-HxCDD	36.504	0.985	1896092	1488803	3384895	bd	0.991	1.274	1.240	NO	5136.1	98.172
13C-123678-HxCDD	36.625	0.988	1972501	1577307	3549809	db	1.025	1.250	1.240	NO	5271.8	99.557
13C-1234678-HpCDD	41.393	1.117	1597492	1503824	3101316	bb	0.866	1.062	1.050	NO	6422.5	102.896
13C-OCDD	47.333	1.277	2614910	2932031	5546941	bb	0.769	0.892	0.890	NO	12875.0	207.258

4902 : 00720

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qid
 Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
 Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

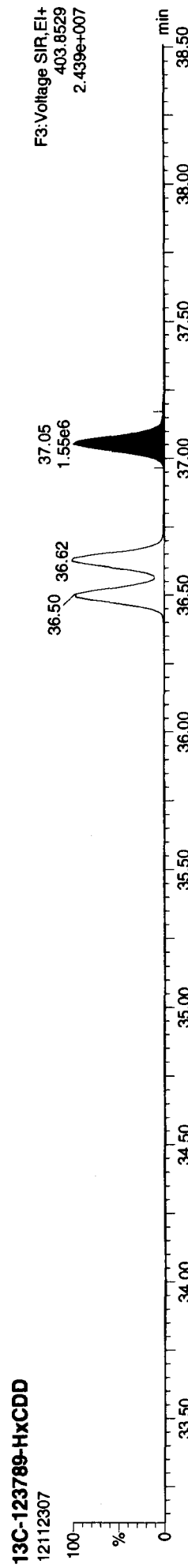
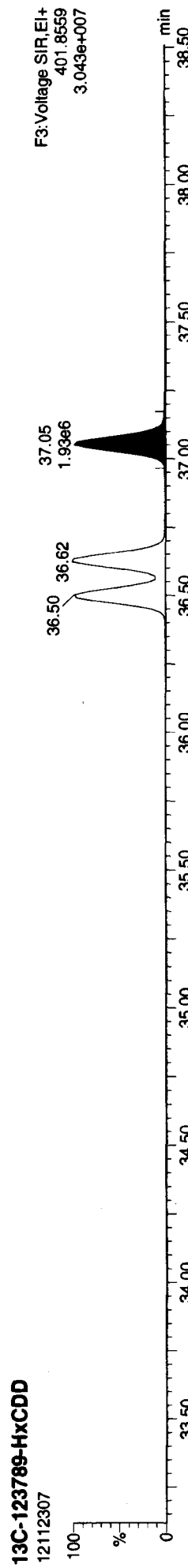
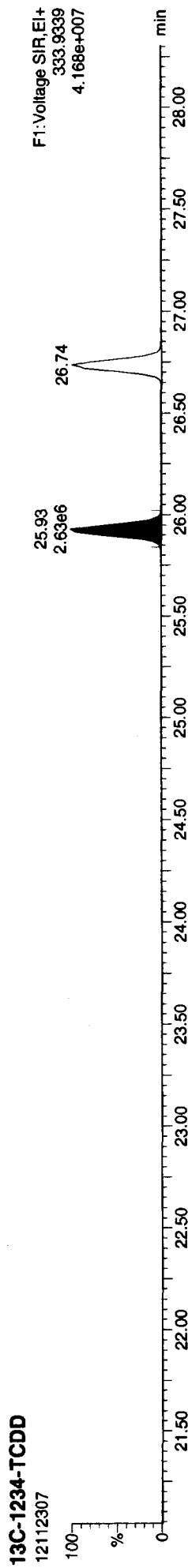
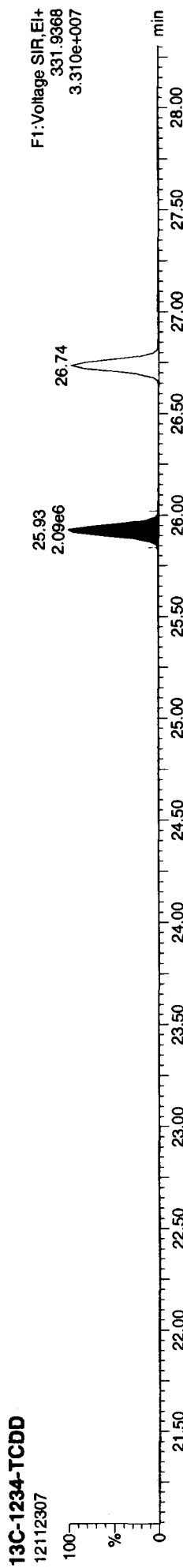
	1933322	1546439	3479761	bb	1.000	1.250	1.240	NO	5177.2		
13C-123789-HxCDD	37.052	0.000	1933322	51837	0.877						100.000
Total-tetrafurans				0						1.978	1.956
Total-penta1				0						0.006	0.000
Total-pentafurans				571711	0.911					19.805	19.723
Total-hexafurans				930498	1.032					39.637	39.631
Total-heptafurans				394645	1.223					19.648	19.620
Total-Furans				2236190	1.041					100.823	100.679
Total-tetra-dioxins				39415	1.049					1.965	1.918
Total-penta-dioxins				204983	0.998					9.917	9.917
Total-hexa-dioxins				532730	0.940					29.735	29.705
Total-hepta-dioxins				158329	1.017					9.847	9.792
Total-Dioxins				1192455	0.985					70.935	70.803
Total-TEQ				3428645						171.758	171.481
37CL-2378-TCDD	26.751	1.032	95462	95462	1.044				463.5		1.939
FUNCTION1 PFK			57956416								0.000
FUNCTION2 PFK			185486								0.000
FUNCTION3 PFK			717138								0.000
FUNCTION4 PFK			0								0.000
FUNCTION5 PFK			7681898								0.000
FUNCTION1 HXCDPE			649								0.000
FUNCTION1 HPCDPE			1745								0.000
FUNCTION2 HPCDPE			1103								0.000
FUNCTION3 OCDPE			259								0.000
FUNCTION4 NCDPE			337								0.000
FUNCTION5 DCDPE			0								0.000

Quantify Sample Report Masslynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 23 Nov 2012 12:31:40
Callibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

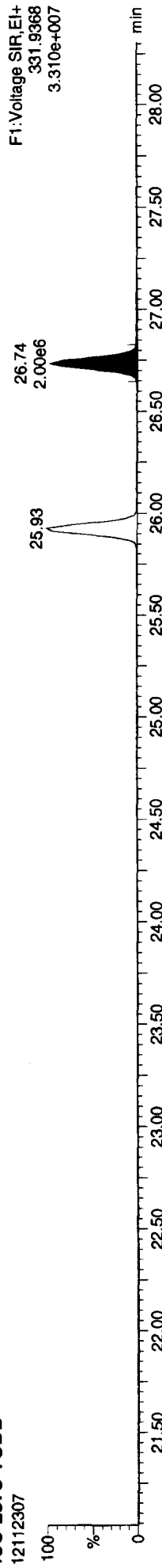


Quantify Sample Report MassLynx 4.1 SCN 714

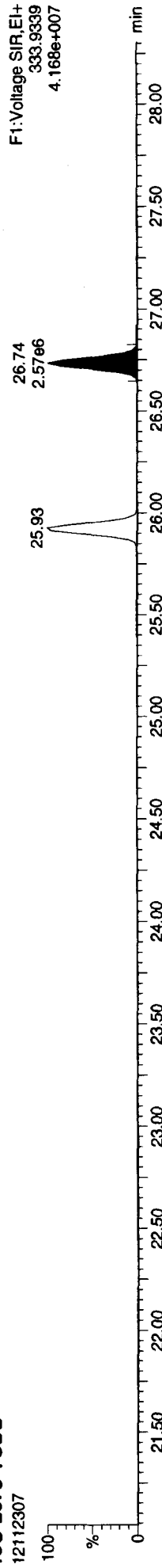
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

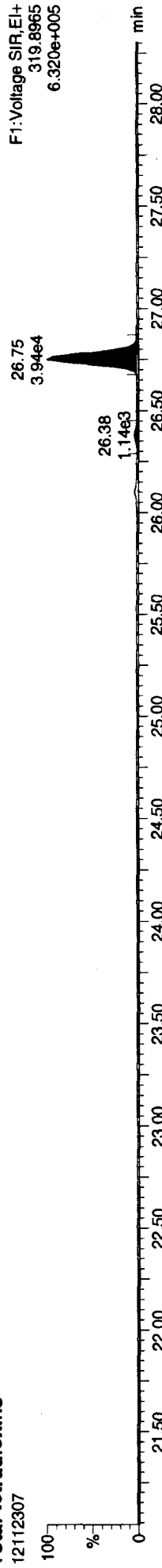
13C-2378-TCDD
12112307



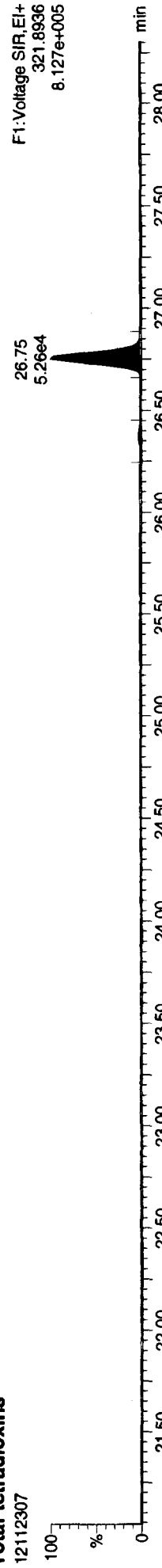
13C-2378-TCDD
12112307



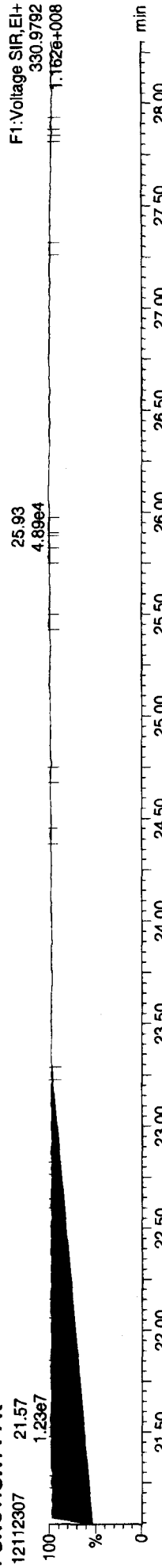
Total-tetradoxins
12112307



Total-tetradoxins
12112307



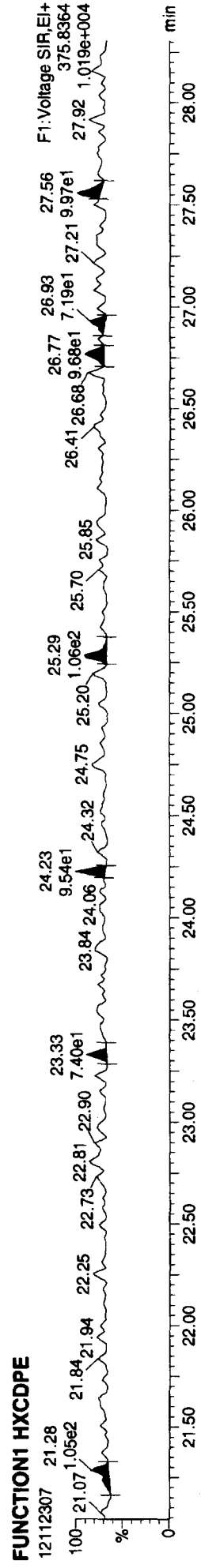
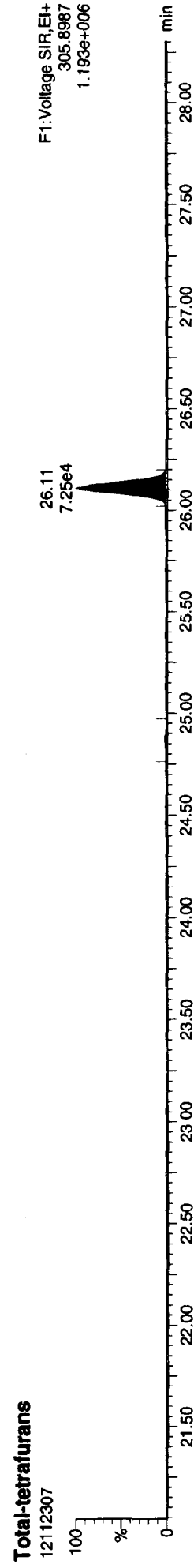
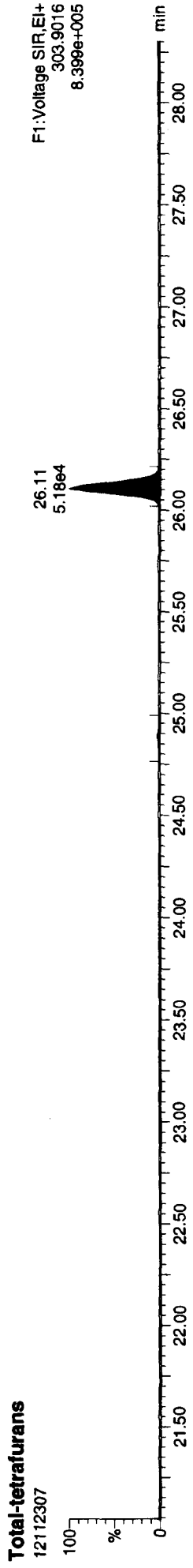
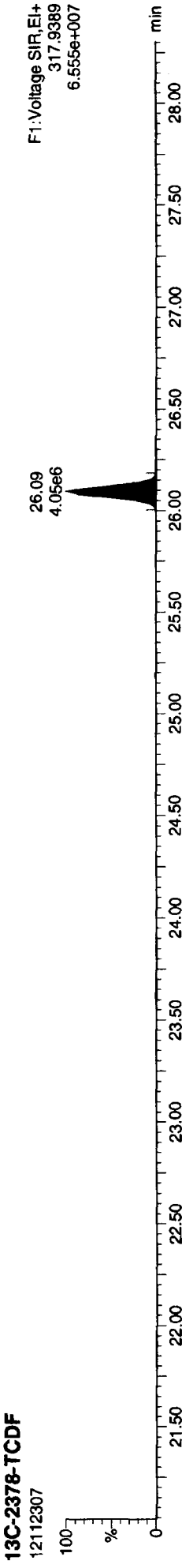
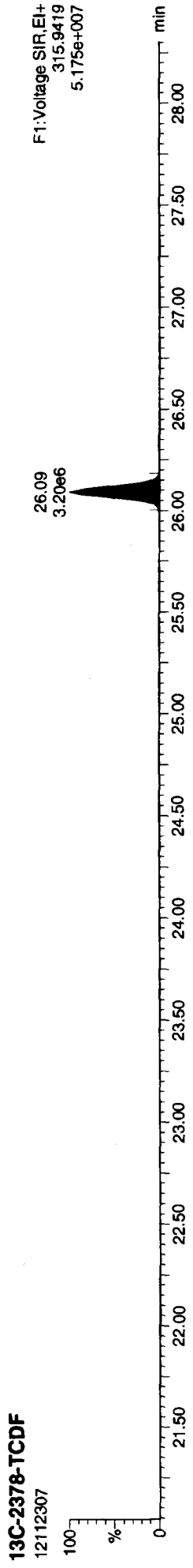
FUNCTION1 PFK
12112307



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\12112307.qid
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

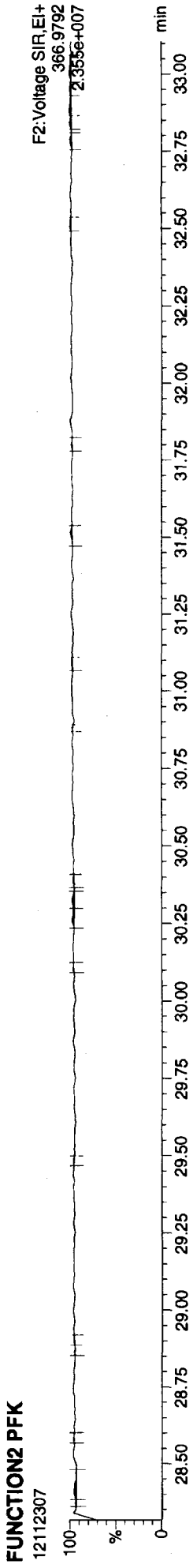
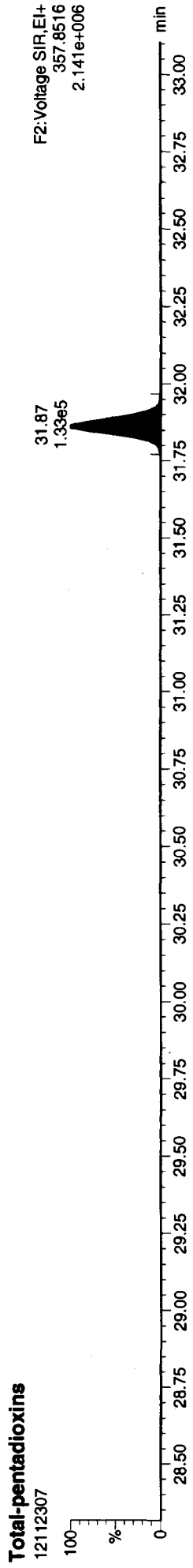
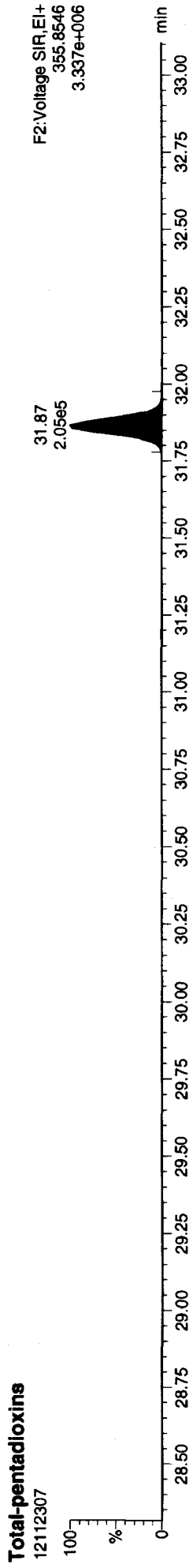
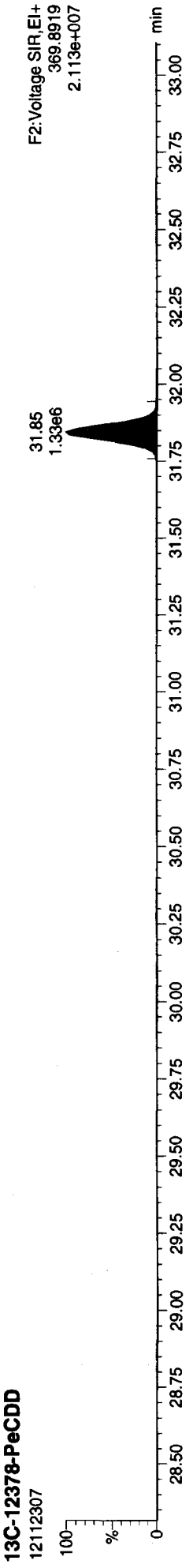
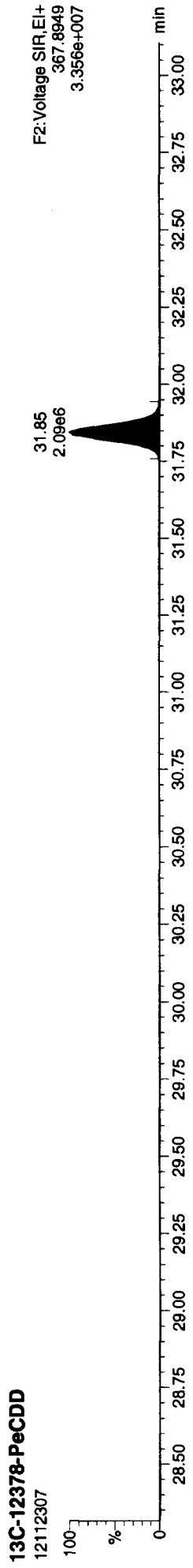
Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

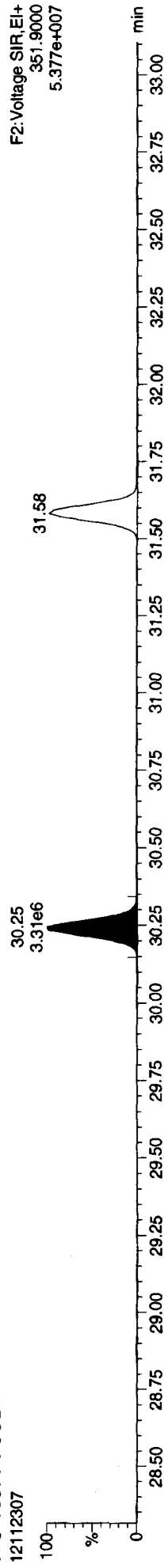


Quantify Sample Report MassLynx 4.1 SCN 714

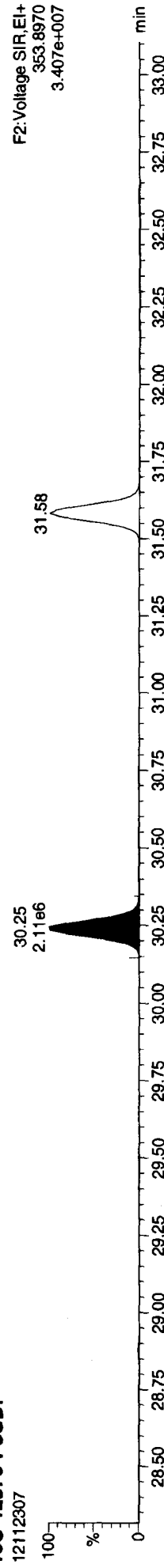
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

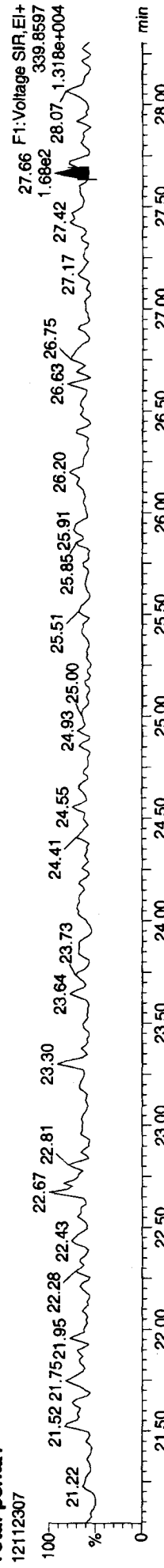
13C-12378-PeCDF



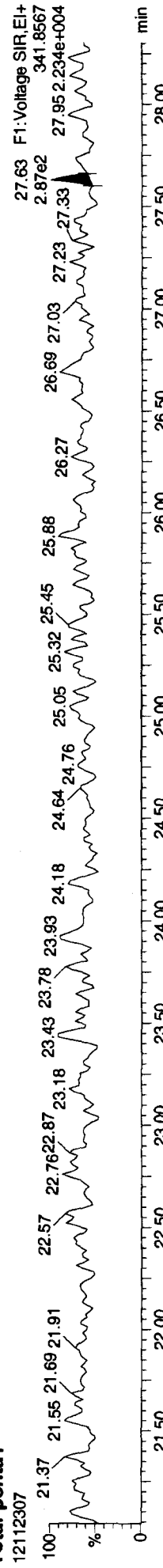
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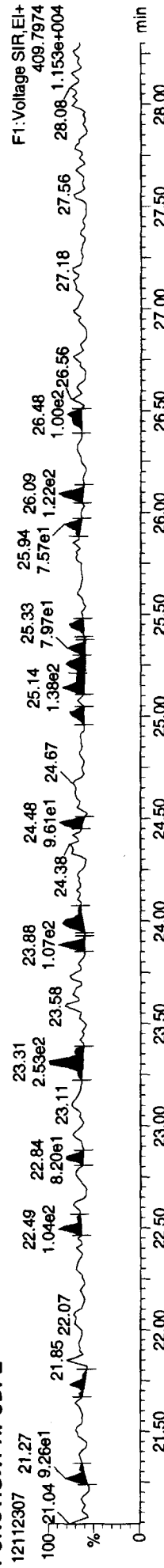
Total-penta1



Total-penta1



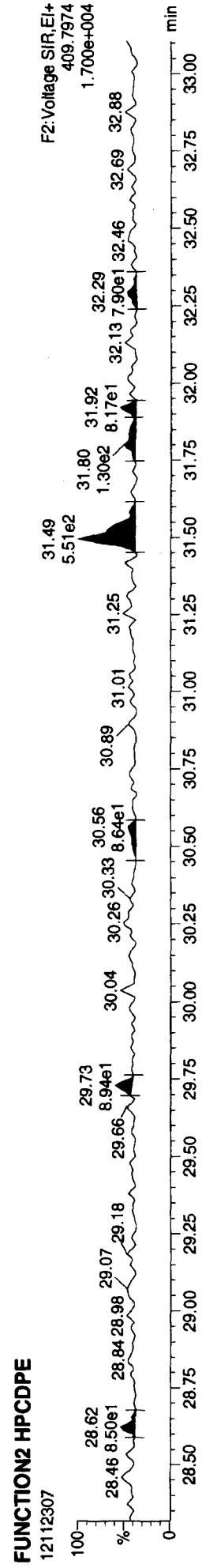
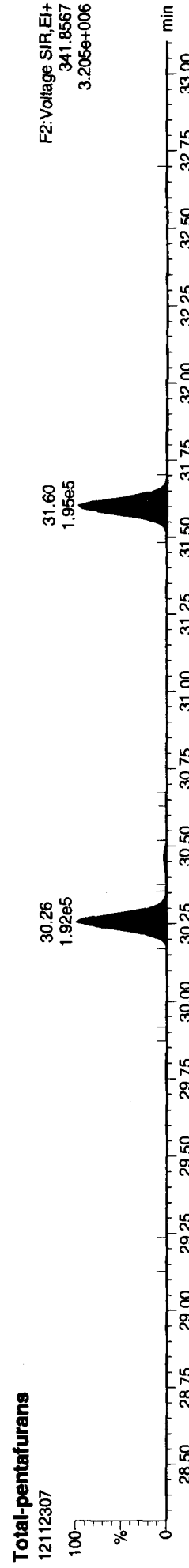
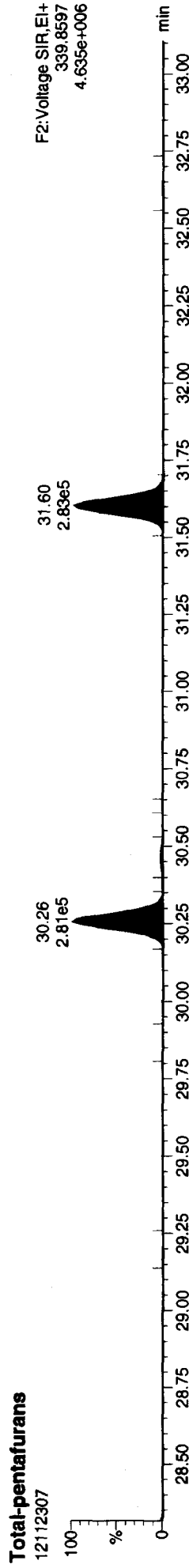
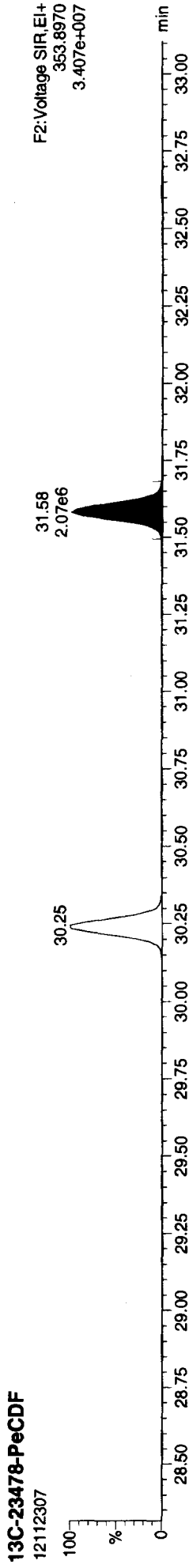
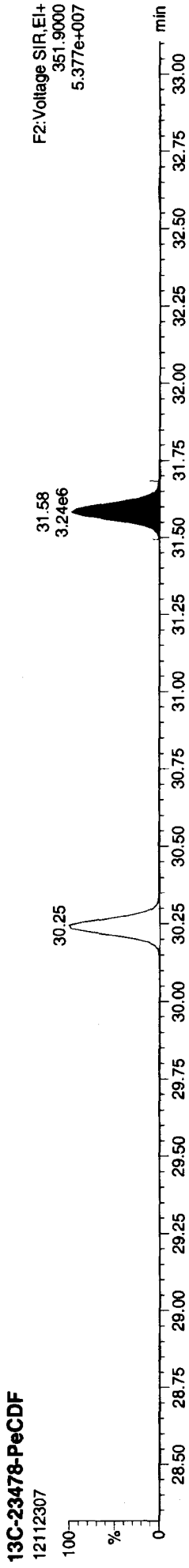
FUNCTION1 HPCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

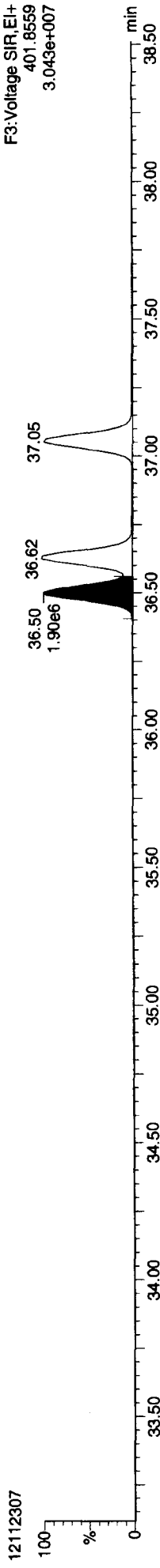


Quantify Sample Report MassLynx 4.1 SCN 714

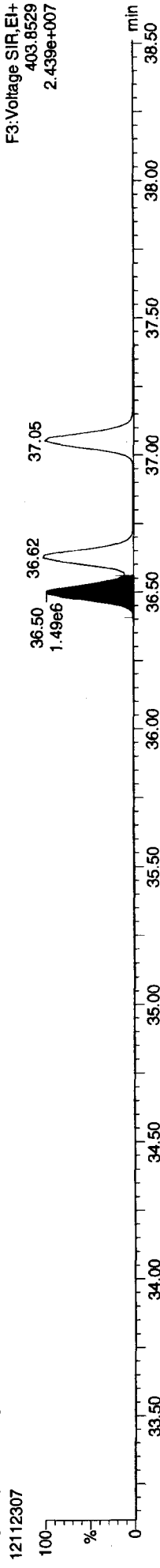
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

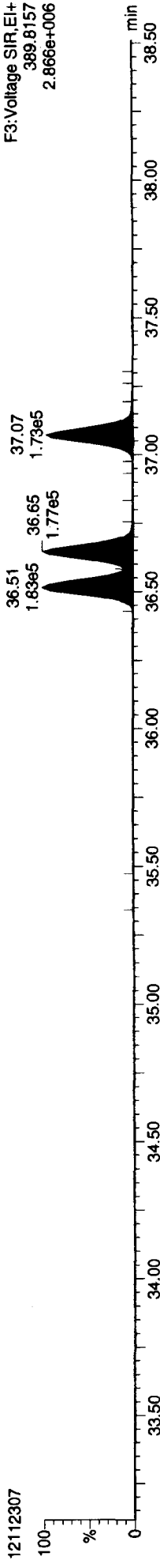
13C-123478-HxCDD



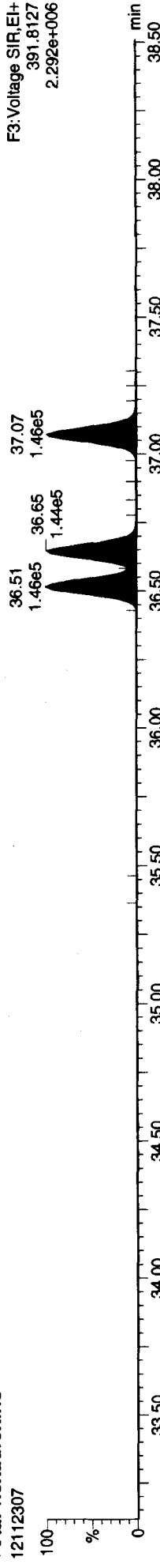
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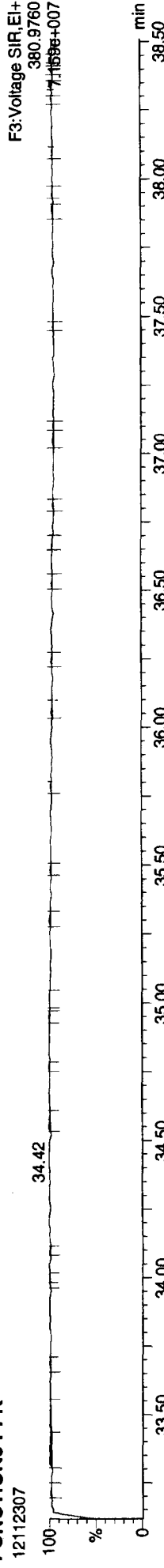
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

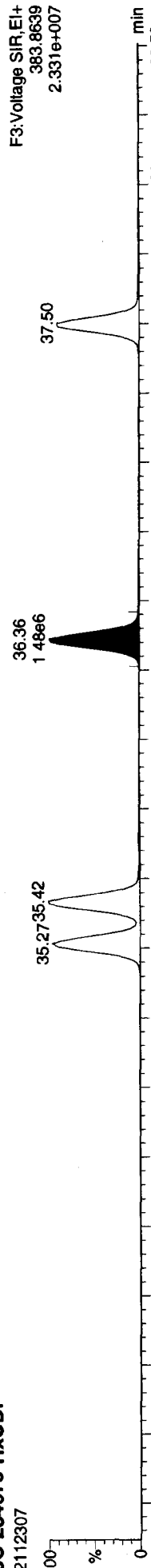


Quantify Sample Report Masslynx 4.1 SCN 714

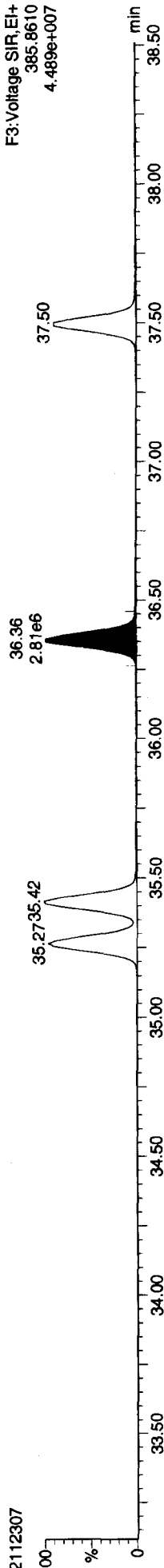
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

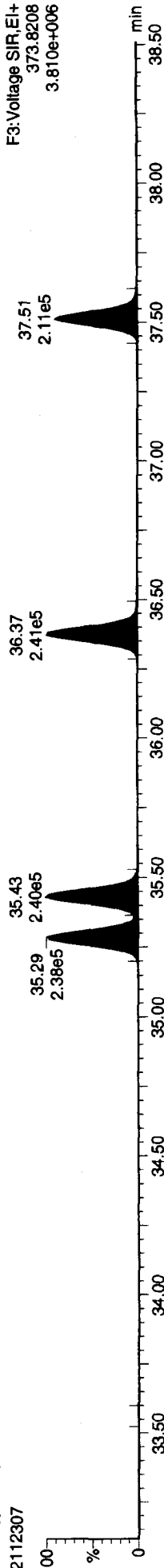
13C-234678-HxCDF
12112307



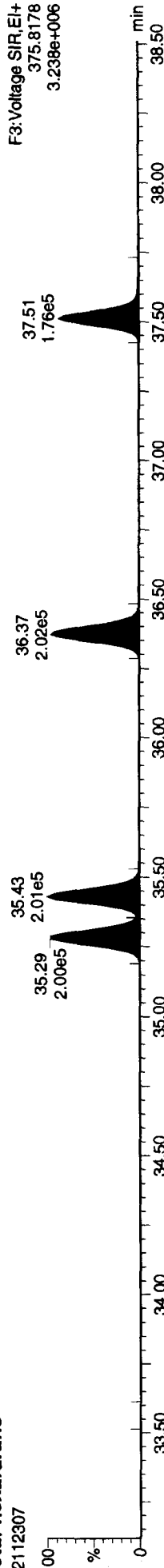
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12112307



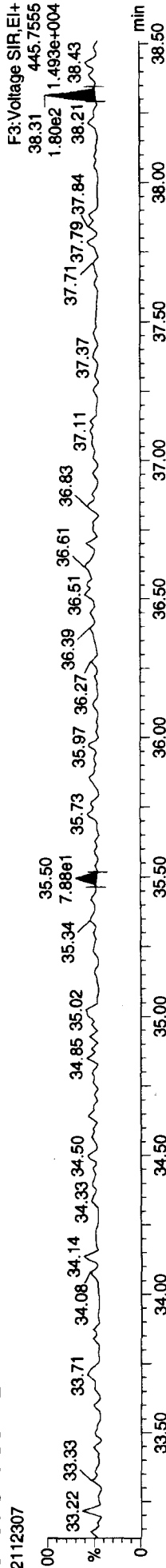
Total-hexafurans
12112307



Total-hexafurans
12112307



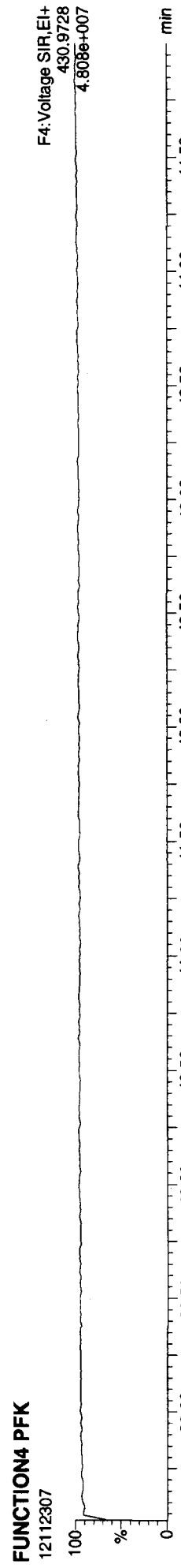
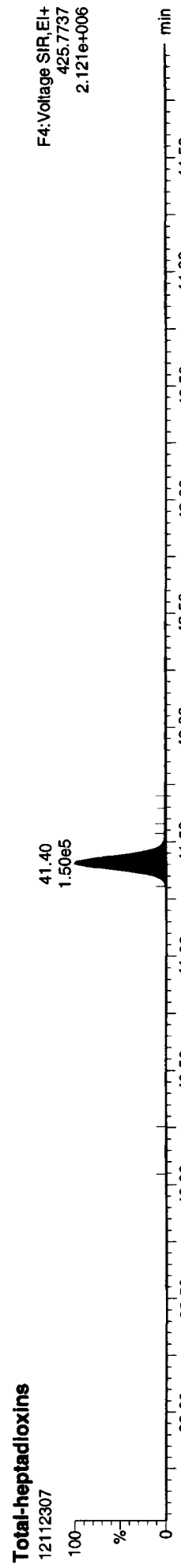
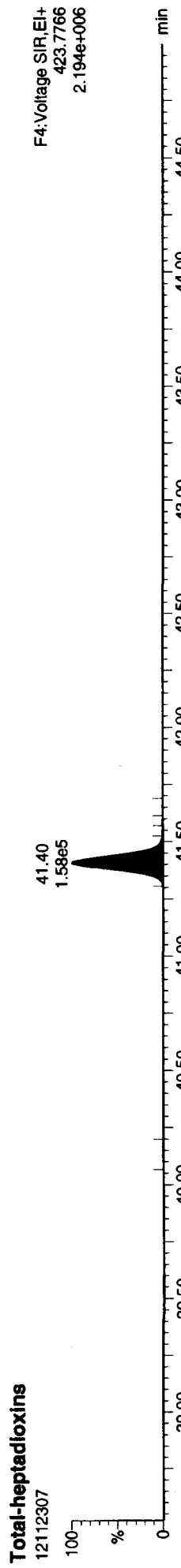
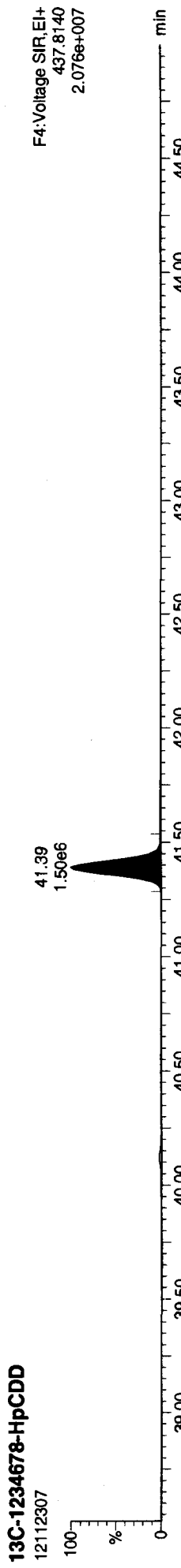
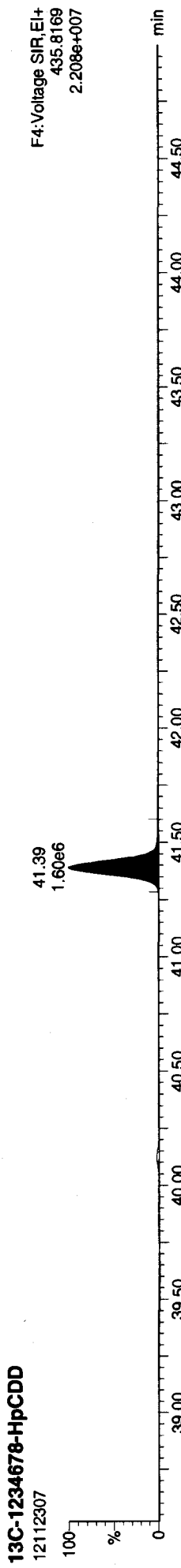
FUNCTION3 OCDFE
12112307



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

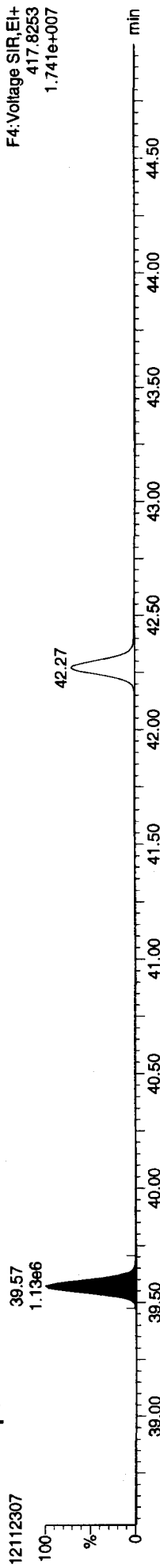


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

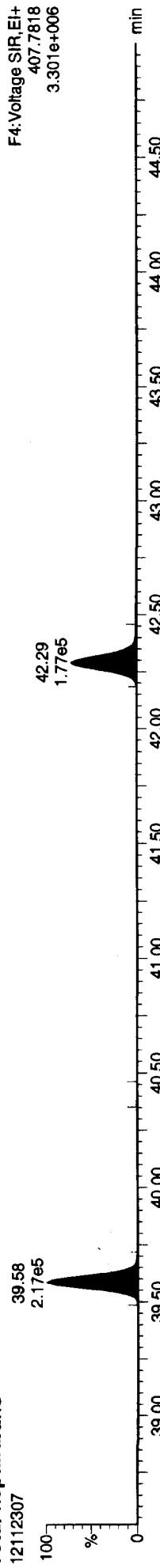
13C-1234678-HpCDF



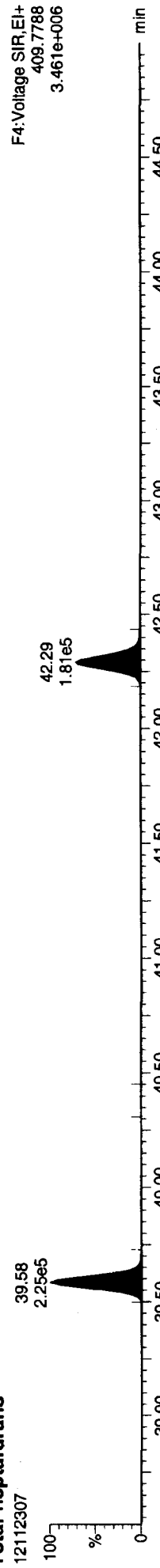
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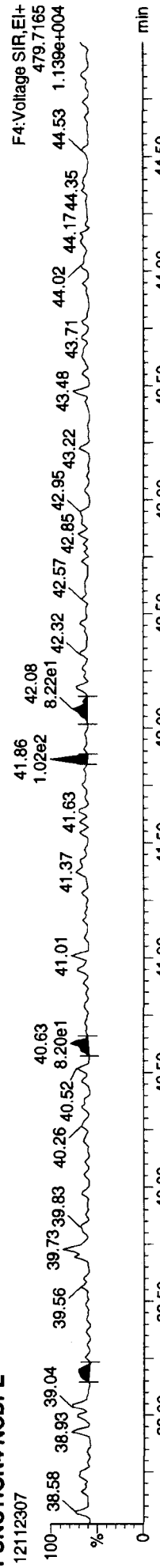
Total-heptafurans



Total-heptafurans



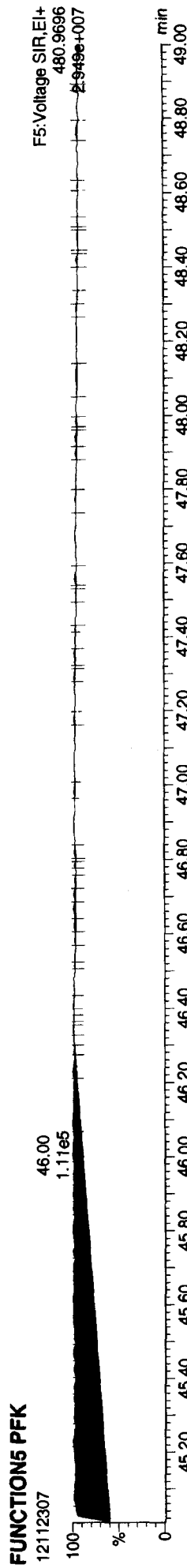
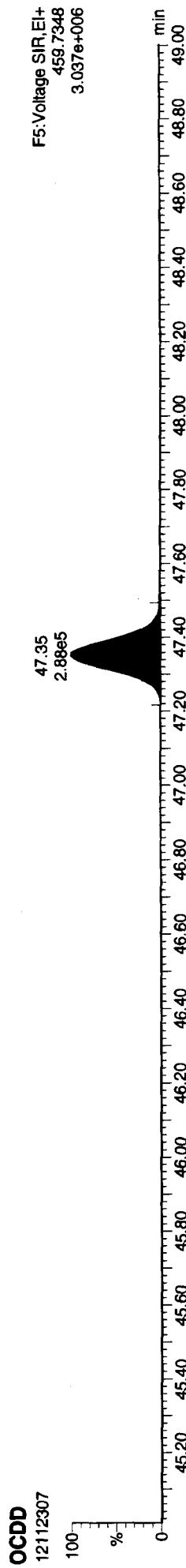
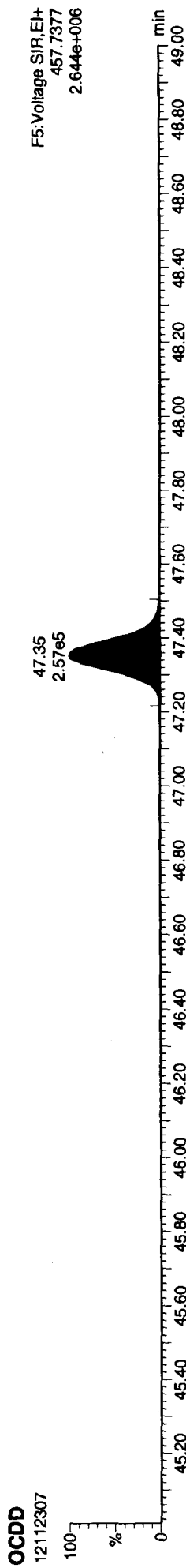
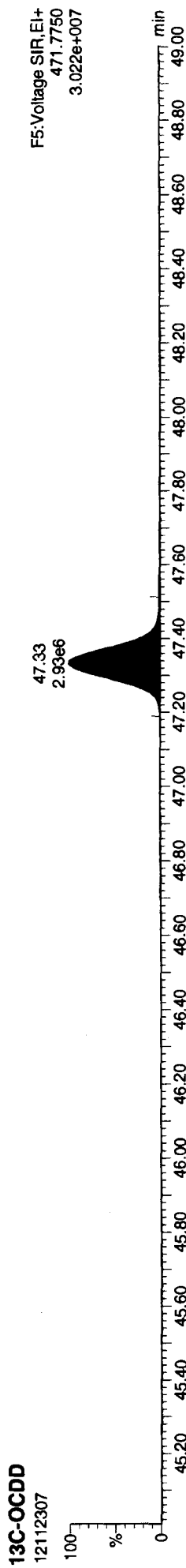
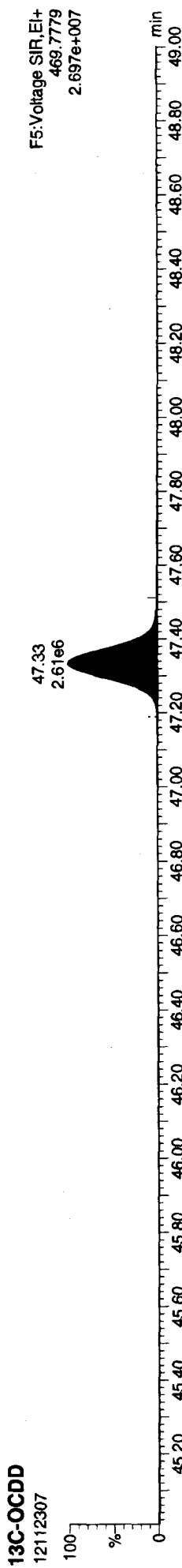
FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

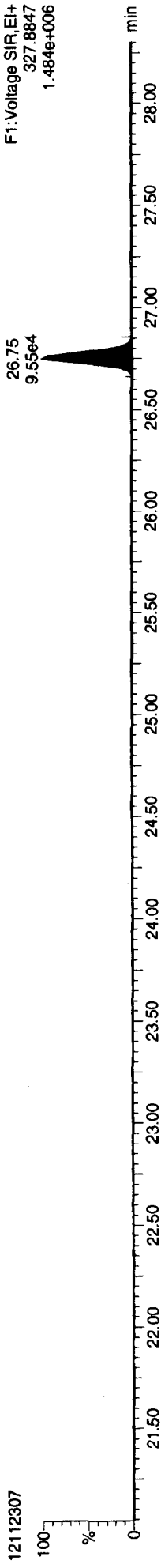


Quantify Sample Report MassLynx 4.1 SCN 714

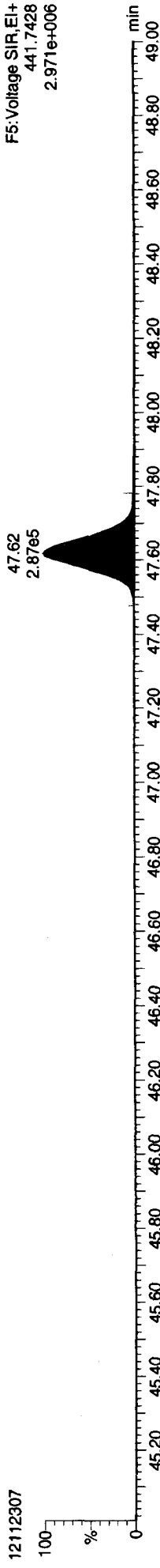
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:43 Pacific Standard Time

Name: 12112307, Date: 23-Nov-2012, Time: 15:55:02, ID: CS2, Conditions: AUTOSPEC01, User: pk

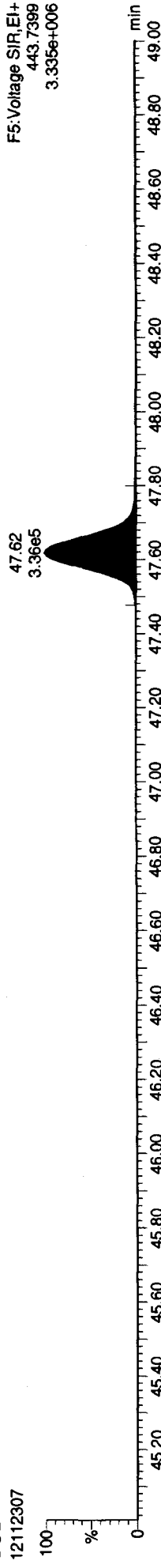
37CL-2378-TCDD



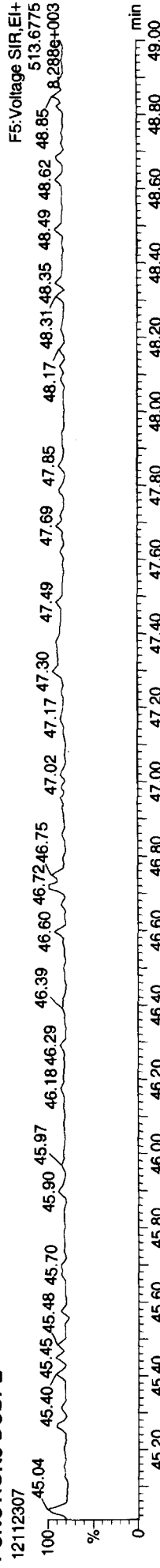
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

Sample	26.093	1.001	213928	290095	504023	bb 0.877	0.737	0.770	NO	1190.1	9.834	9.834
2378-TCDF	26.093	1.001	213928	290095	504023	bb 0.877	0.737	0.770	NO	1190.1	9.834	9.834
12378-PeCDF	30.233	1.000	1156210	781358	1937568	bb 0.896	1.480	1.550	NO	4686.8	49.802	49.802
23478-PeCDF	31.582	1.001	1137087	772882	1909968	bb 0.926	1.471	1.550	NO	4541.5	49.602	49.602
123478-HxCDF	35.265	1.001	936705	786783	1723488	bd 1.068	1.191	1.240	NO	3405.1	49.310	49.310
234678-HxCDF	36.350	1.000	928801	782097	1710898	bb 1.037	1.188	1.240	NO	3308.9	49.788	49.788
123678-HxCDF	35.407	1.000	954848	809981	1764829	db 1.035	1.179	1.240	NO	3430.0	50.254	50.254
123789-HxCDF	37.490	1.000	789335	660161	1449496	bb 0.987	1.196	1.240	NO	2880.5	49.490	49.490
1234678-HpCDF	39.561	1.000	841683	857247	1698931	bb 1.232	0.982	1.050	NO	4599.1	49.532	49.532
1234789-HpCDF	42.269	1.001	646789	659996	1306765	bb 1.215	0.980	1.050	NO	3029.3	49.817	49.817
OCDF	47.593	1.006	1037025	1193546	2230571	bb 1.138	0.869	0.890	NO	8284.4	101.071	101.071
2378-TCDD	26.735	1.001	168653	217774	386426	bd 1.049	0.774	0.770	NO	1605.5	9.822	9.822
12378-PeCDD	31.845	1.001	813777	521830	1335607	bb 0.998	1.559	1.550	NO	3776.6	49.810	49.810
123478-HxCDD	36.492	1.000	707337	578925	1286262	bd 0.971	1.222	1.240	NO	3224.8	50.349	50.349
123678-HxCDD	36.624	1.000	685667	554763	1240430	db 0.918	1.236	1.240	NO	3097.5	49.928	49.928
123789-HxCDD	37.051	1.012	701043	562904	1263946	bb 0.932	1.245	1.240	NO	3135.6	50.797	50.797
1234678-HpCDD	41.381	1.000	584414	561145	1145559	bb 1.017	1.041	1.050	NO	3309.3	49.058	49.058
OCDD	47.324	1.000	902163	1019251	1915414	bb 1.008	0.890	0.890	NO	4016.0	97.911	97.911
13C-2378-TCDF	26.078	1.007	2563645	3282954	5846599	bb 1.473	0.781	0.770	NO	4087.7	99.879	99.879
13C-12378-PeCDF	30.222	1.167	2649150	1692127	4341276	bb 1.148	1.566	1.550	NO	8940.2	95.144	95.144
13C-23478-PeCDF	31.560	1.219	2527379	1630334	4157713	bb 1.113	1.550	1.550	NO	8368.2	93.999	93.999
13C-123478-HxCDF	35.243	0.952	1118730	2153325	3272055	bd 1.209	0.520	0.510	NO	5289.3	100.993	100.993
13C-123678-HxCDF	35.396	0.956	1163497	2230950	3394447	db 1.269	0.521	0.510	NO	5601.4	98.846	98.846
13C-234678-HxCDF	36.339	0.981	1130474	2184101	3314575	bb 1.236	0.518	0.510	NO	5257.9	100.086	100.086
13C-123789-HxCDF	37.478	1.012	1019042	1949503	2968545	bb 1.107	0.523	0.510	NO	4814.3	100.093	100.093
13C-1234678-HpCDF	39.550	1.068	863095	1921193	2784288	bb 1.051	0.449	0.440	NO	4962.2	98.845	98.845
13C-1234789-HpCDF	42.247	1.141	659755	1499129	2158883	bb 0.815	0.440	0.440	NO	3276.1	98.884	98.884
13C-1234-TCDD	25.899	0.000	1752512	2222562	3975074	bb 1.000	0.789	0.770	NO	4416.2	100.000	100.000
13C-2378-TCDD	26.721	1.032	1619131	2130808	3749939	bd 0.946	0.760	0.770	NO	3994.6	99.750	99.750
13C-12378-PeCDD	31.823	1.229	1643463	1043219	2666682	bb 0.721	1.575	1.550	NO	13466.6	93.785	93.785
13C-123478-HxCDD	36.481	0.985	1476891	1154653	2631544	bd 0.991	1.279	1.240	NO	4457.6	98.105	98.105
13C-123678-HxCDD	36.613	0.989	1497921	1208103	2706025	db 1.025	1.240	1.240	NO	4419.8	98.547	98.547
13C-1234678-HpCDD	41.370	1.117	1174691	1121641	2296332	bb 0.866	1.047	1.050	NO	6566.4	98.931	98.931
13C-OCDD	47.306	1.278	1831116	2048884	3880000	bb 0.769	0.894	0.890	NO	11336.5	188.249	188.249

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qid
 Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
 Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

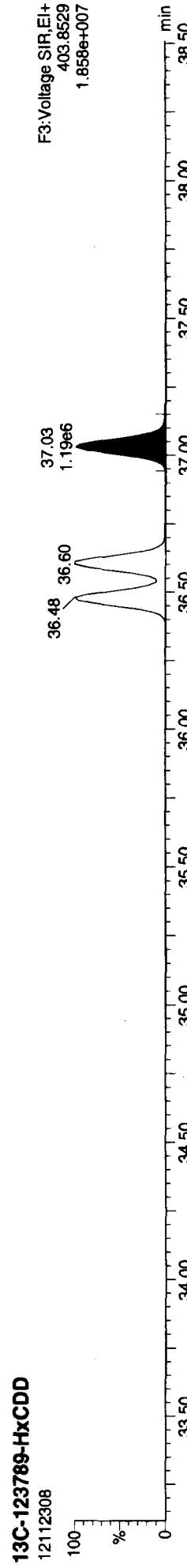
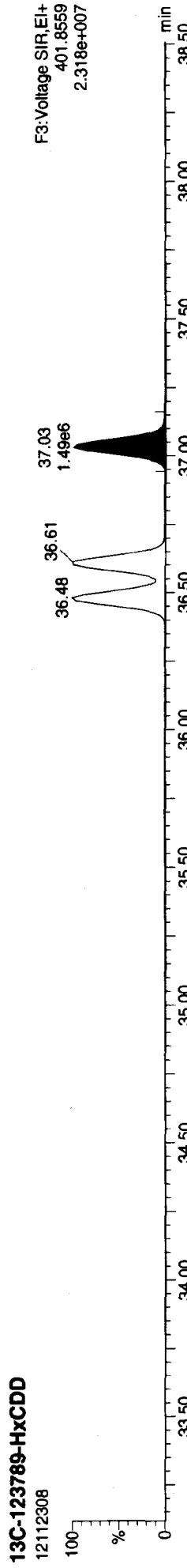
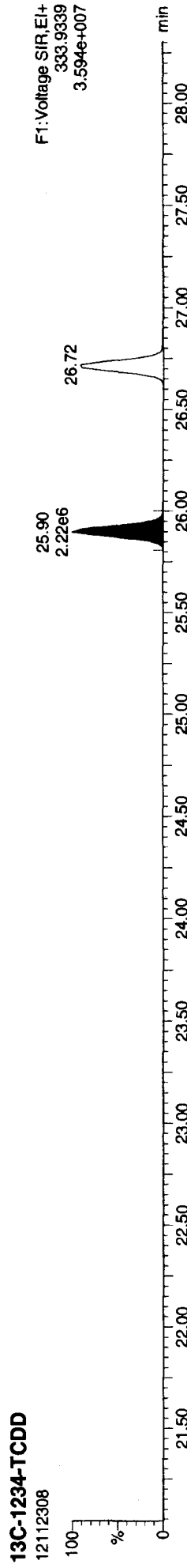
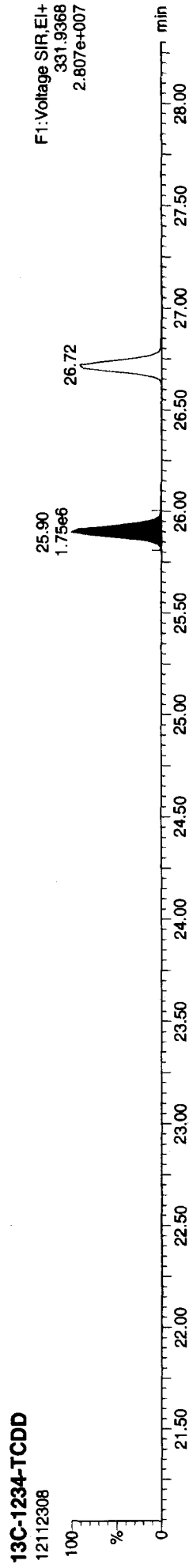
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Total-tetrafurans				681965			0.877						31.967	100.000
Total-penta1				1743492									73.434	73.434
Total-pentafurans				3493704			0.911						151.492	151.399
Total-hexafurans				4738730			1.032						261.258	261.169
Total-heptafurans				1488644			1.223						99.707	99.362
Total-Furans				13184043			1.041						718.948	717.524
Total-tetraoxins				956279			1.049						55.889	55.542
Total-pentadioxins				2917842			0.998						178.867	178.715
Total-hexadioxins				3044627			0.940						220.722	219.478
Total-heptadioxins				1276742			1.017						107.268	107.268
Total-Dioxins				9097653			0.985						660.657	658.914
Total-TEQ				22281696									1379.605	1376.438
37CL-2378-TCDD		26.735	1.032	401259		401259	1.044					2091.1		9.673
FUNCTION1 PFK				3607843										0.000
FUNCTION2 PFK				126655										0.000
FUNCTION3 PFK				61568										
FUNCTION4 PFK				19179										
FUNCTION5 PFK				7229271										
FUNCTION1 HXCDPE				782										0.000
FUNCTION1 HPCDPE				1559										0.000
FUNCTION2 HPCDPE				2382										0.000
FUNCTION3 OCDPE				225										0.000
FUNCTION4 NCDPE				466										0.000
FUNCTION5 DCDPE				0										0.000

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\IoxIn121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

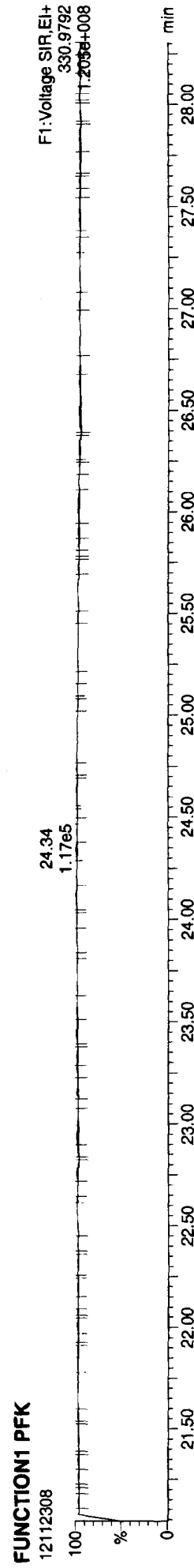
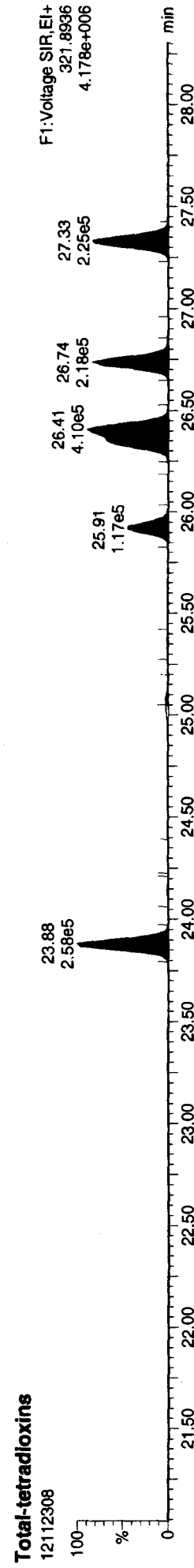
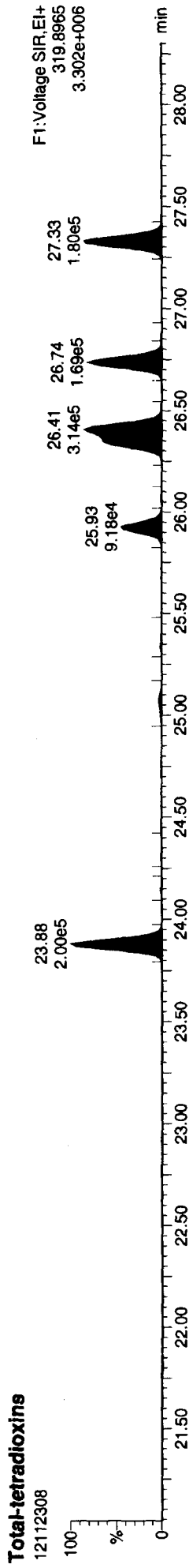
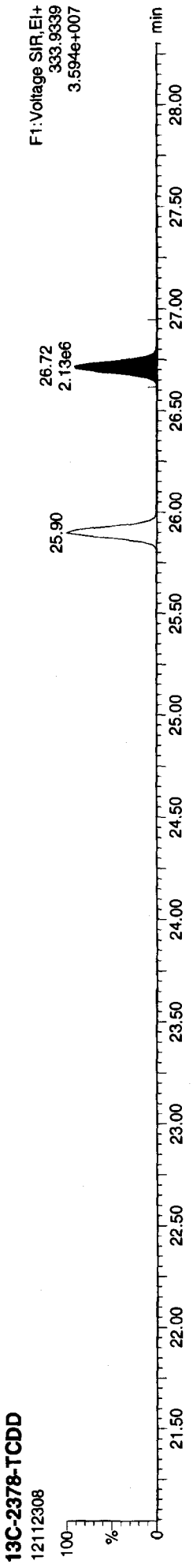
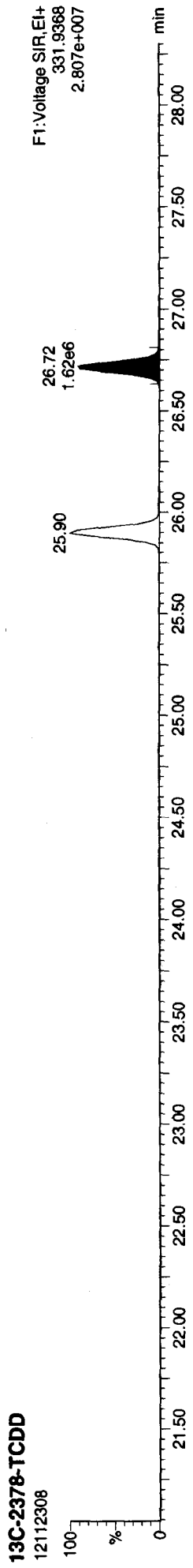
Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report **Masslynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

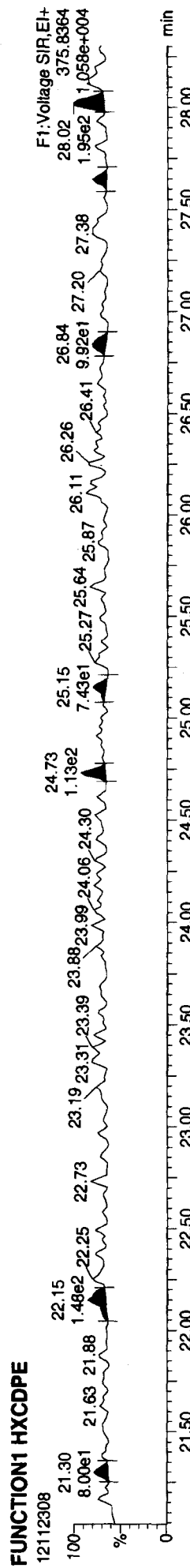
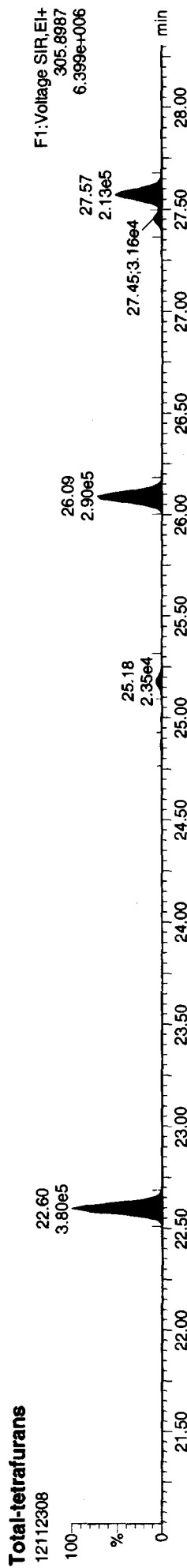
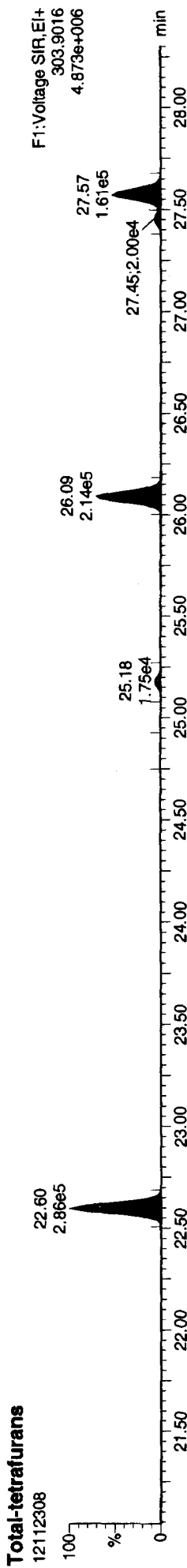
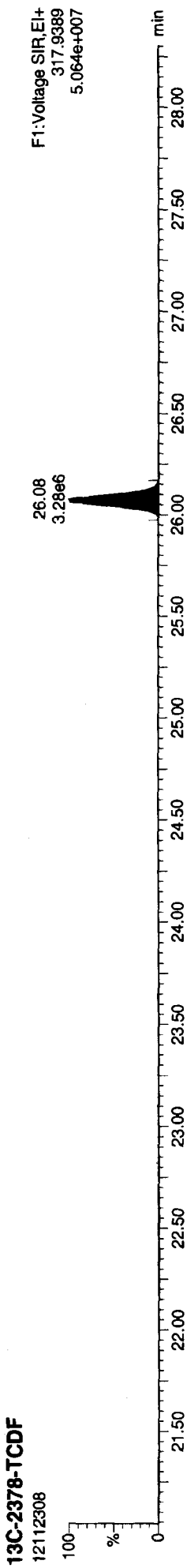
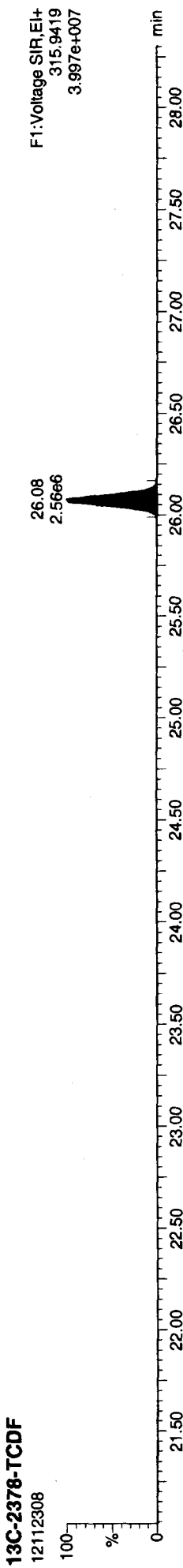
Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

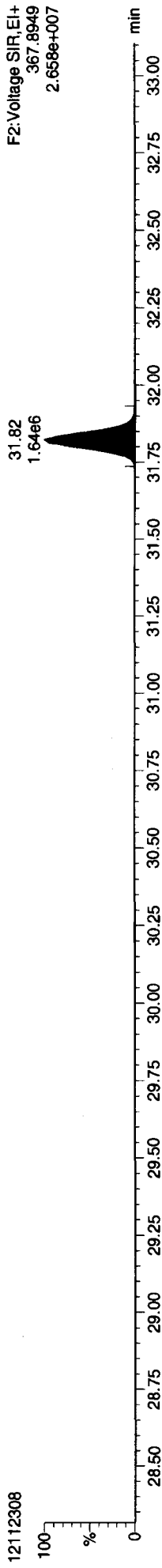


Quantify Sample Report MassLynx 4.1 SCN 714

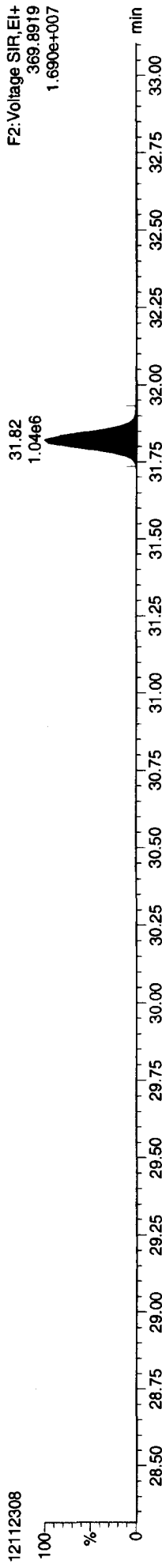
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

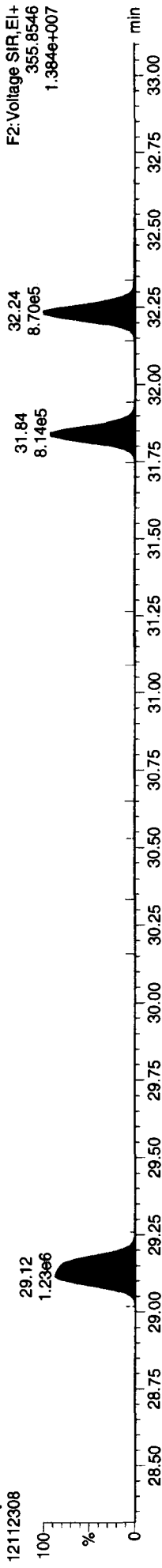
13C-12378-PeCDD
12112308



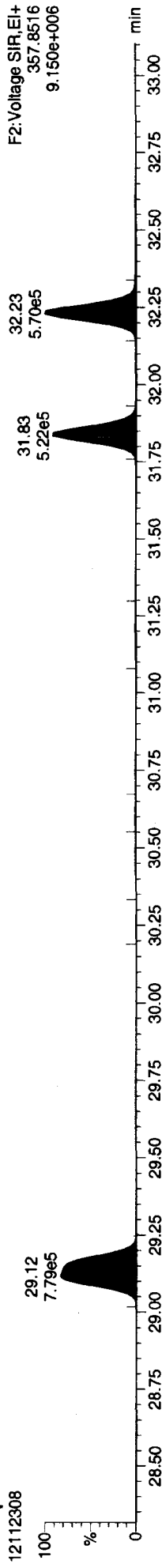
13C-12378-PeCDD
12112308



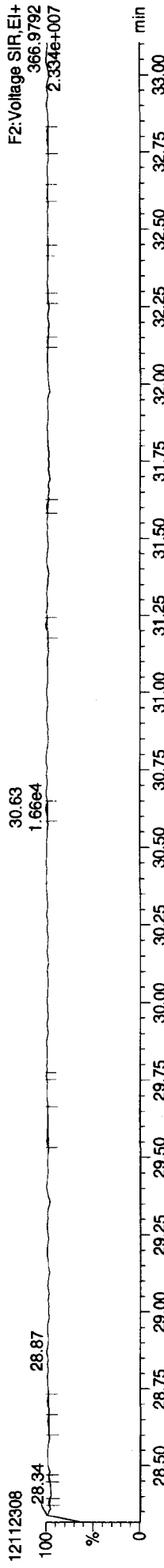
Total-pentadioxins
12112308



Total-pentadioxins
12112308



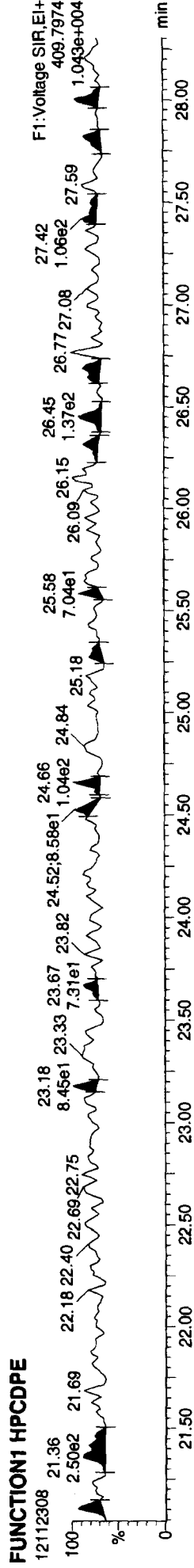
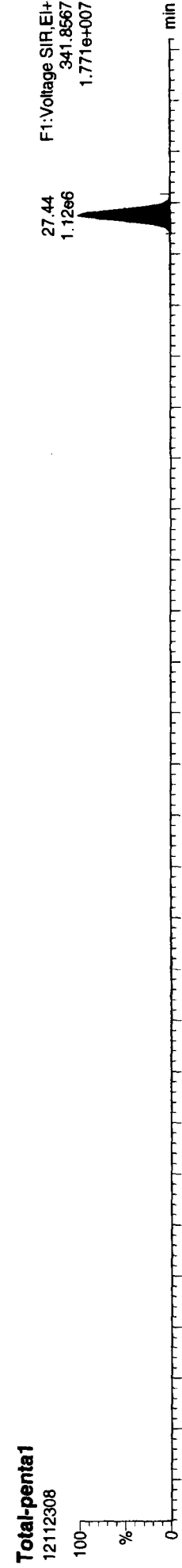
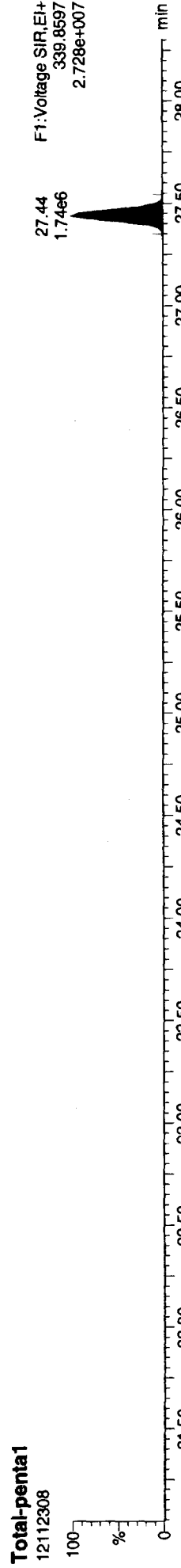
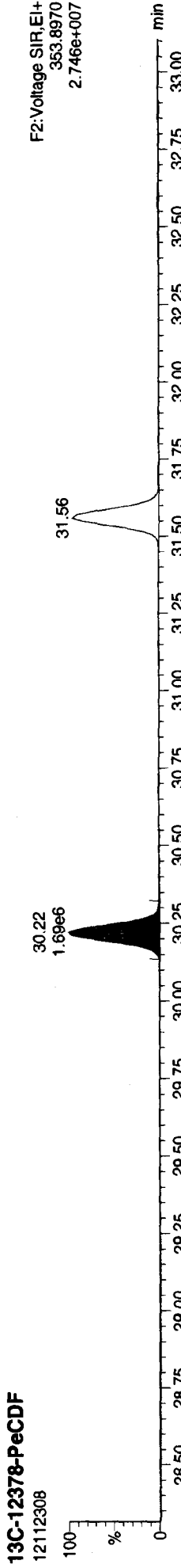
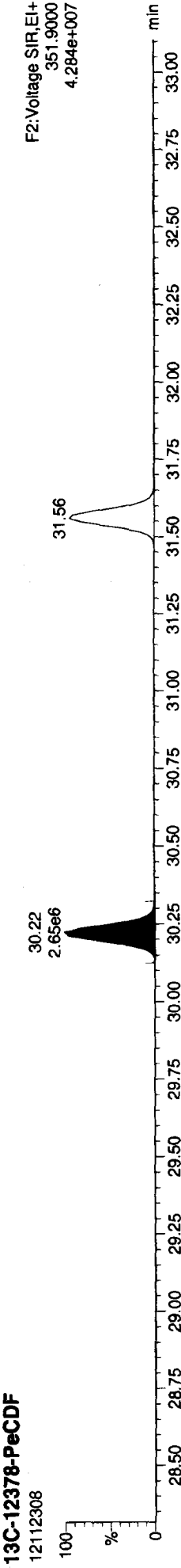
FUNCTION2 PFK
12112308



Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8200.PRO\1211231C.qtd
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

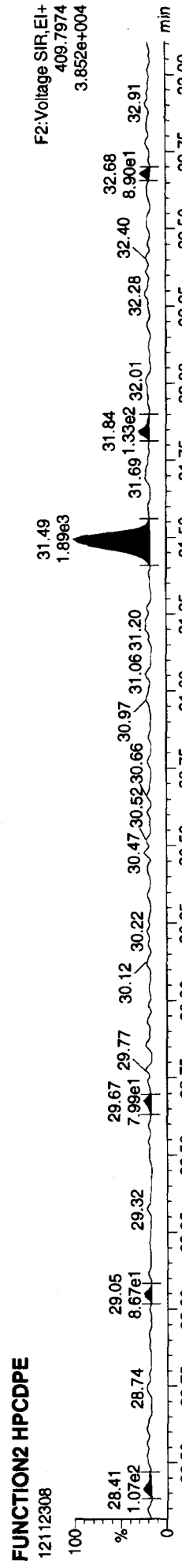
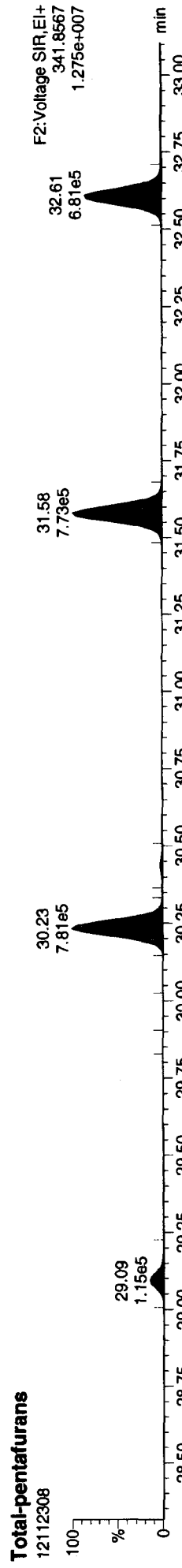
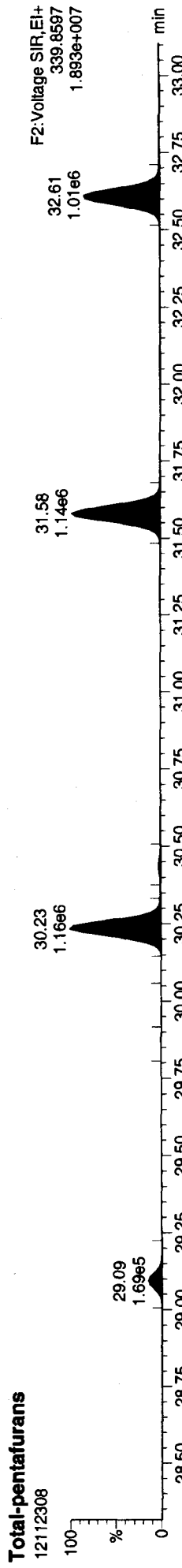
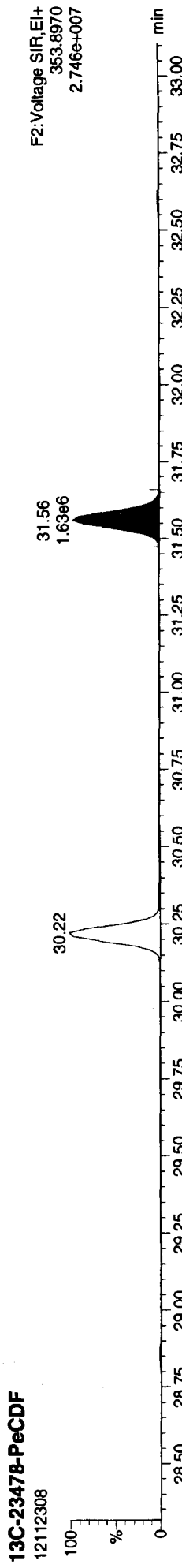
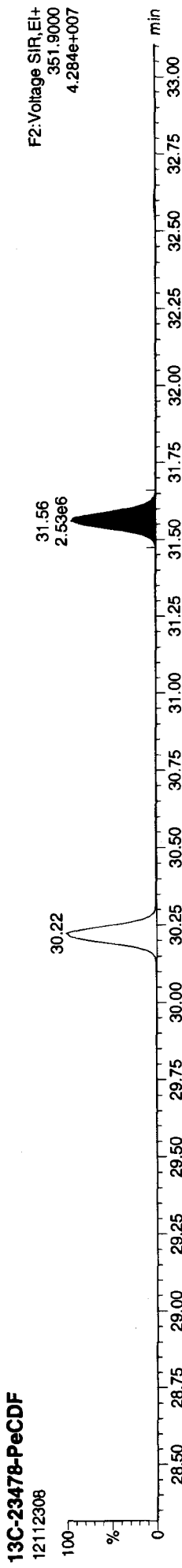
Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

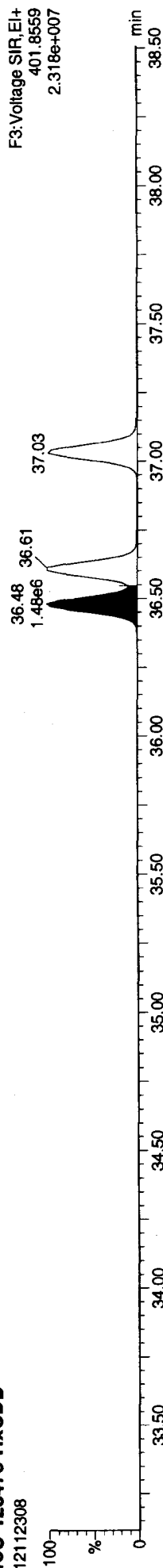


Quantify Sample Report MassLynx 4.1 SCN 714

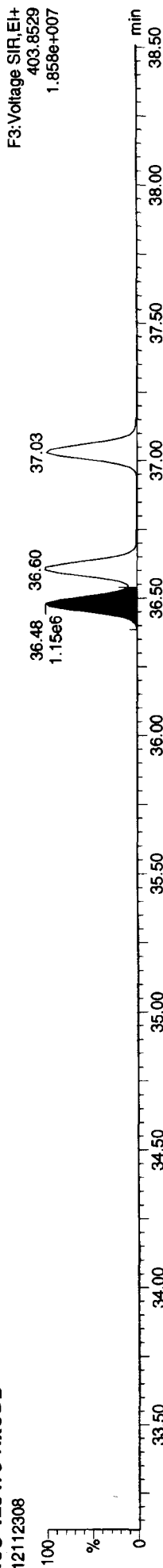
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

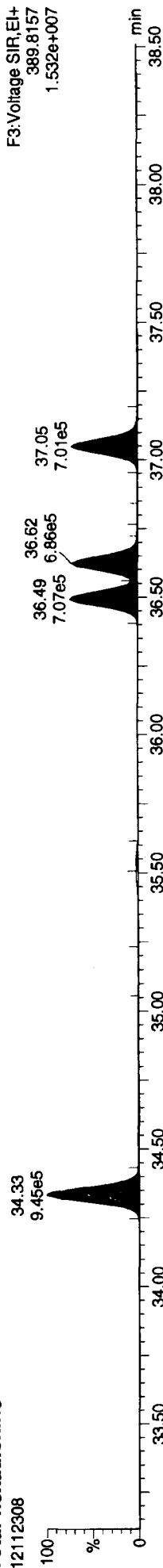
13C-123478-HxCDD
12112308



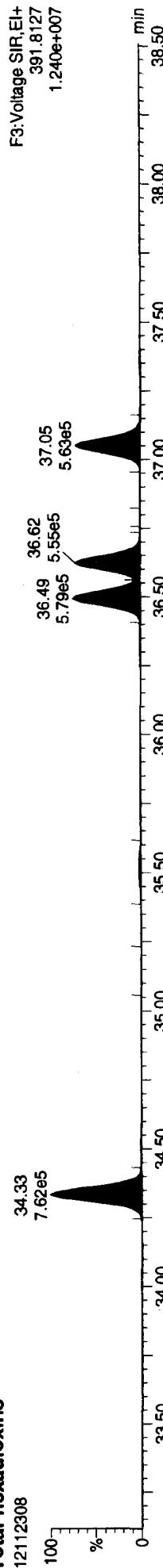
13C-123478-HxCDD
12112308



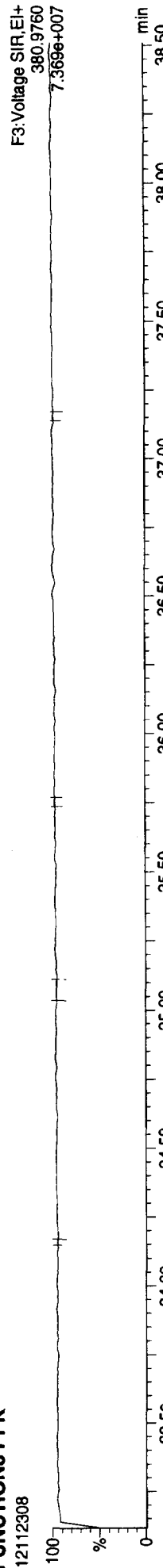
Total-hexadioxins
12112308



Total-hexadioxins
12112308



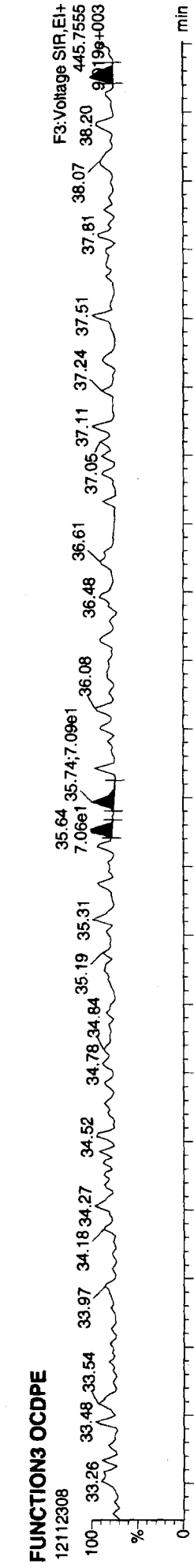
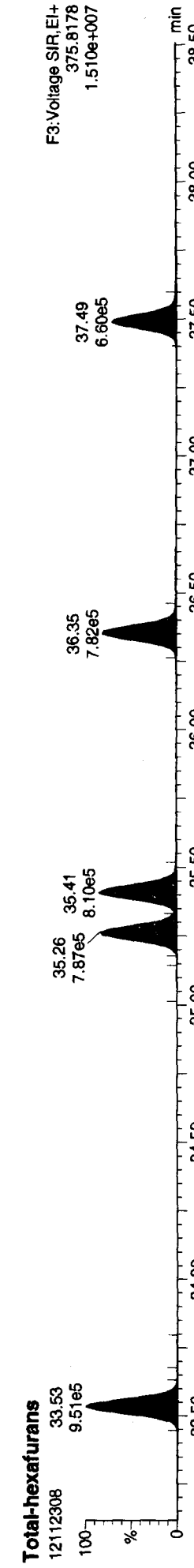
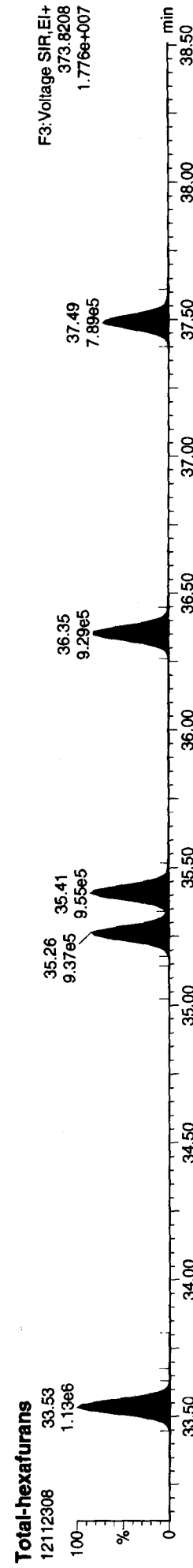
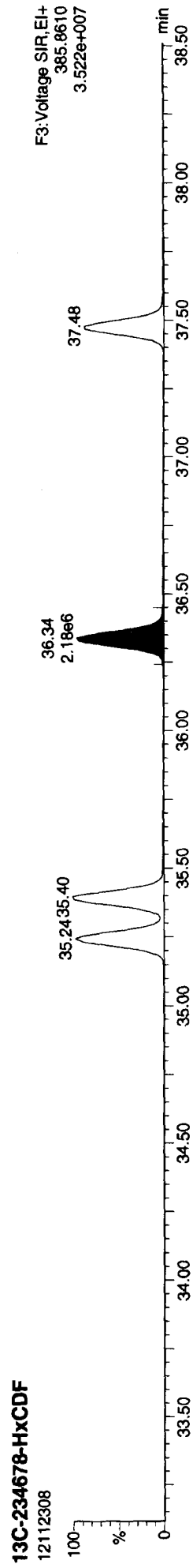
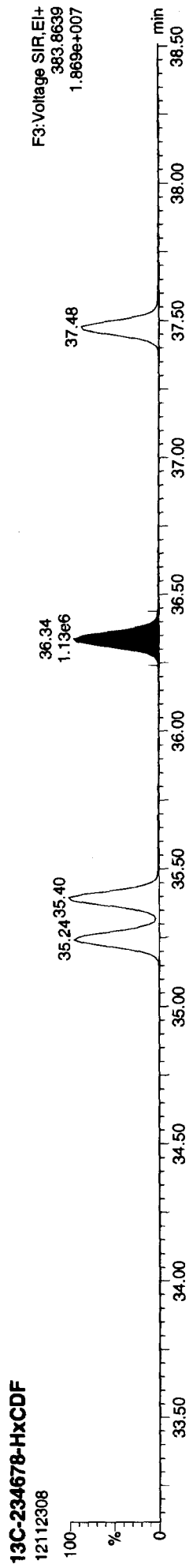
FUNCTION3 PFK
12112308



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld

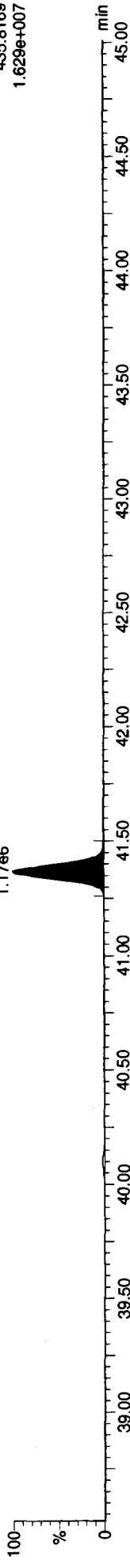
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

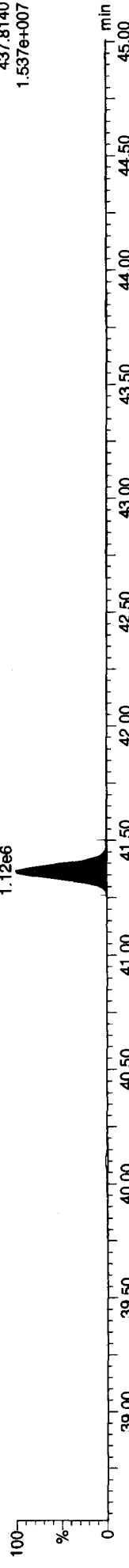
13C-1234678-HpCDD

12112308



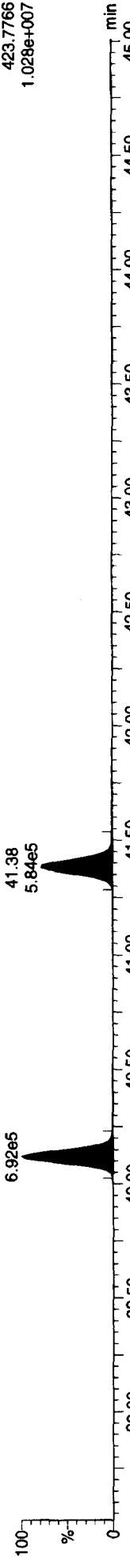
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12112308



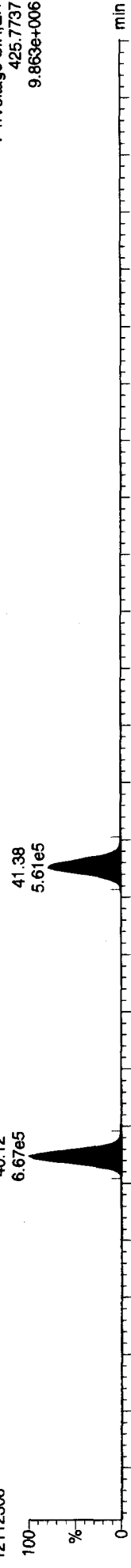
Total-heptadioxins

12112308



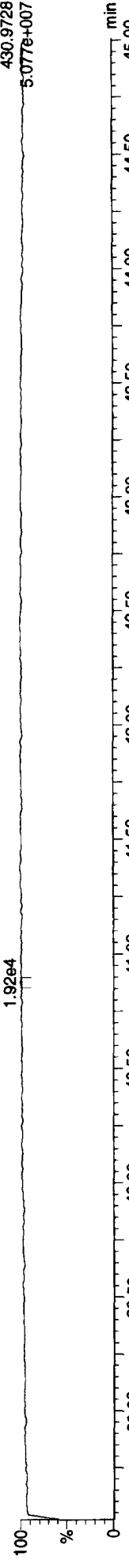
Total-heptadioxins

12112308



FUNCTION4 PFK

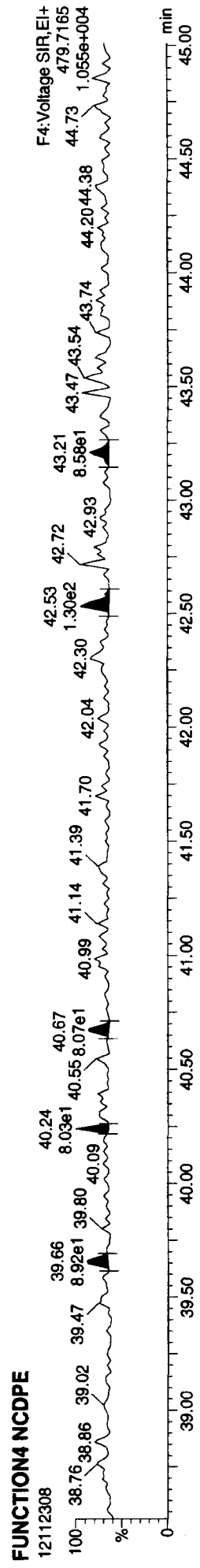
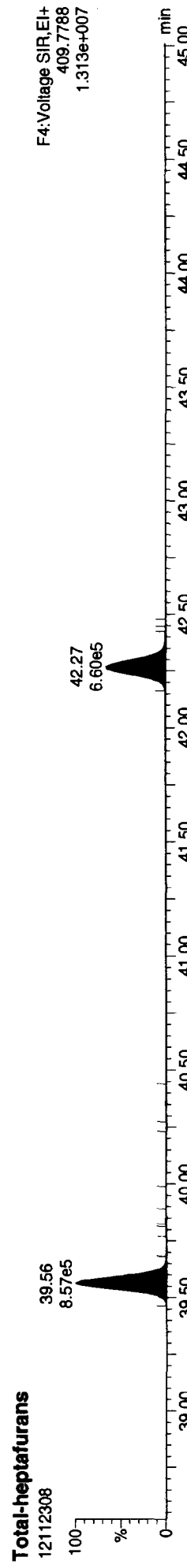
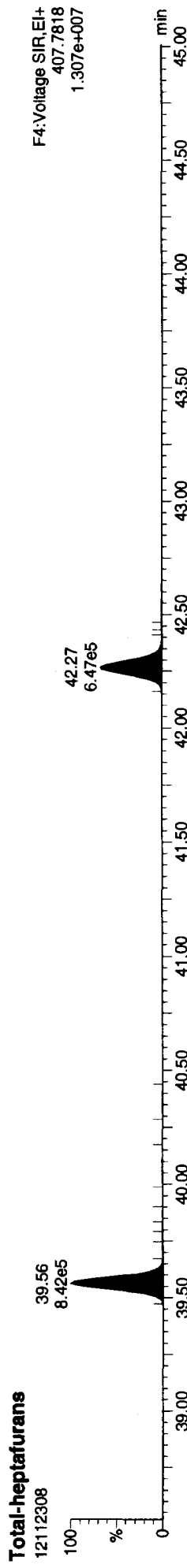
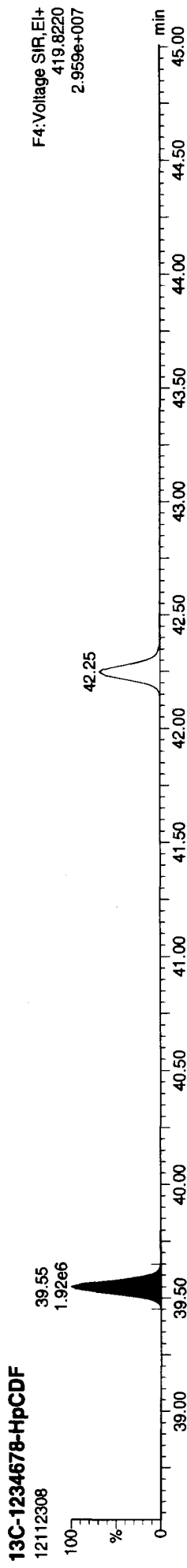
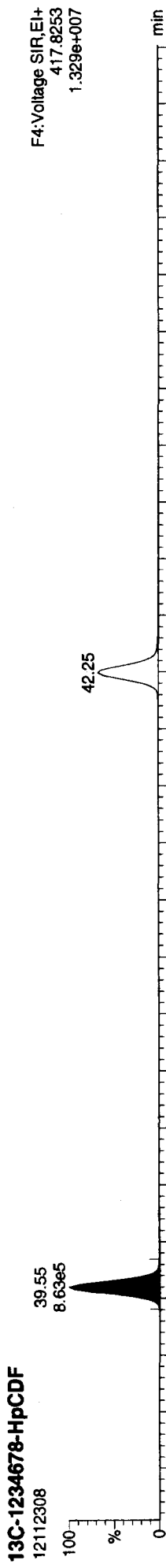
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Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

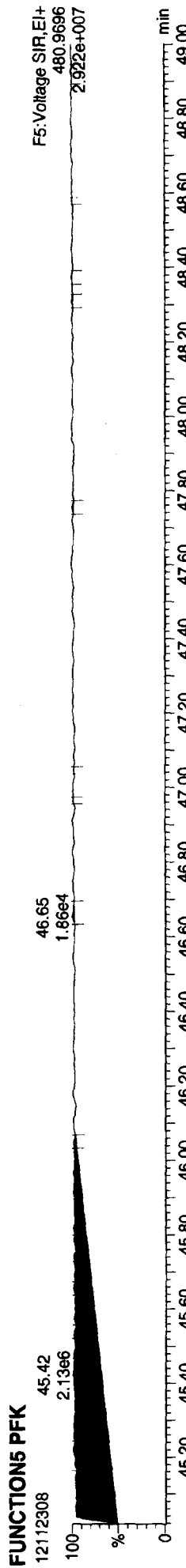
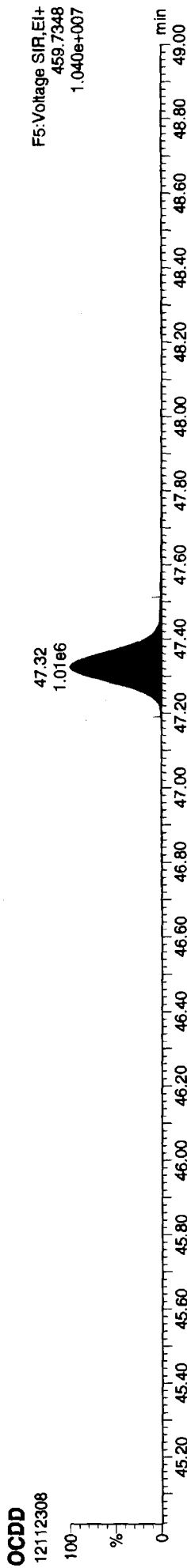
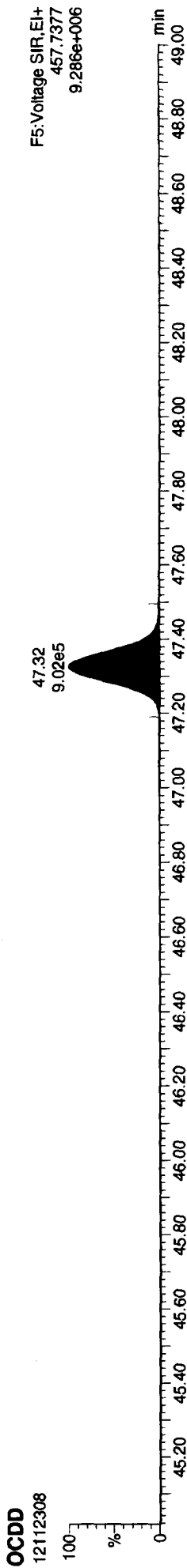
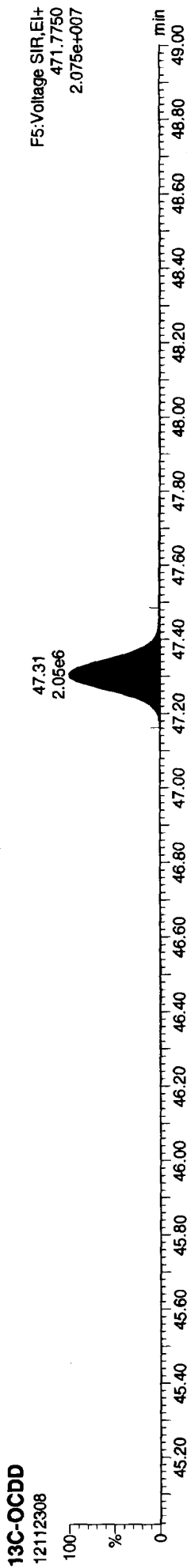
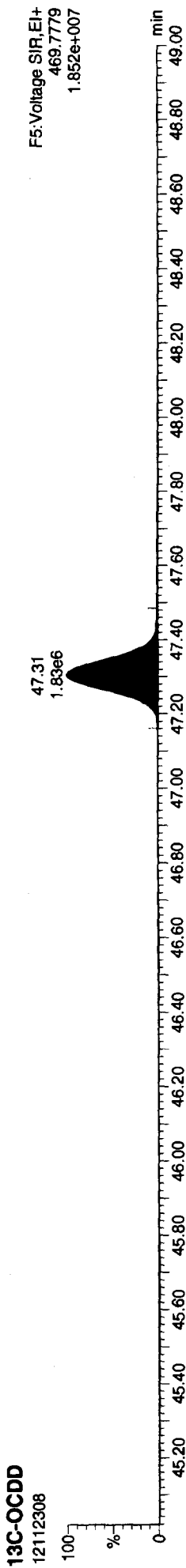
Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
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Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

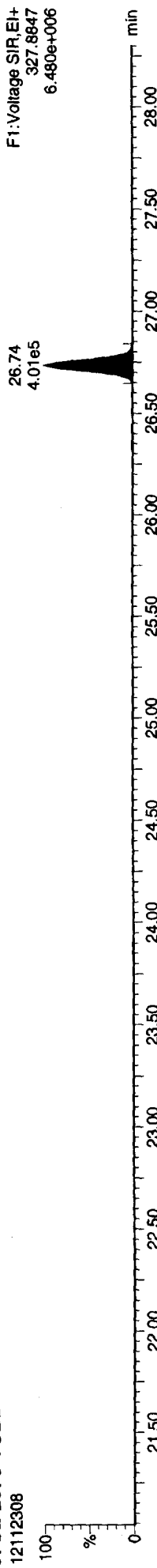


Quantify Sample Report MassLynx 4.1 SCN 714

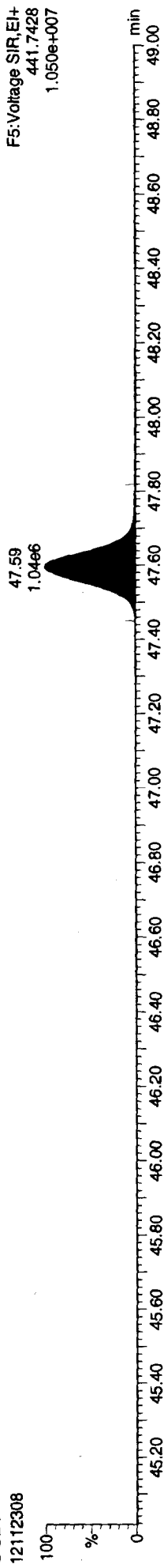
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Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:26:53 Pacific Standard Time

Name: 12112308, Date: 23-Nov-2012, Time: 16:45:35, ID: CS3, Conditions: AUTOSPEC01, User: pk

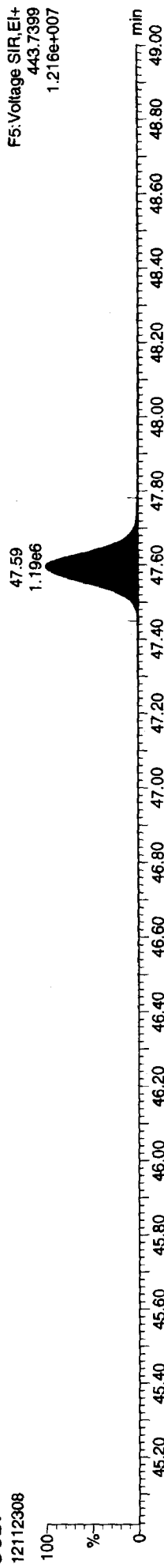
37CL-2378-TCDD



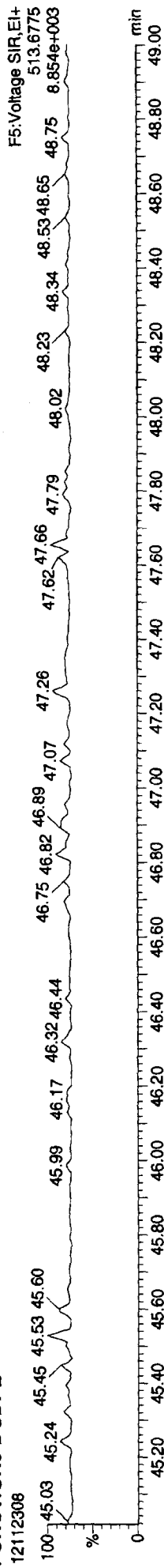
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

Compound	Area	Height	Retention	Abundance	Ratio	Mass	Label
2378-TCDF	26.093	1.001	1117860	1497779	2615639	bb	0.877
12378-PeCDF	30.245	1.001	6343723	4269835	10613557	bb	0.896
23478-PeCDF	31.593	1.001	6234505	4215507	10450011	bb	0.926
123478-HxCDF	35.265	1.000	5317316	4476351	9793666	bd	1.068
234678-HxCDF	36.361	1.001	5247941	4432393	9680333	bb	1.037
123678-HxCDF	35.419	1.001	5499960	4628339	10128298	db	1.035
123789-HxCDF	37.501	1.001	4297452	3632779	7930230	bb	0.987
1234678-HpCDF	39.573	1.001	4819758	4888780	9708538	bb	1.232
1234789-HpCDF	42.270	1.000	3619675	3638113	7257787	bb	1.215
OCDF	47.602	1.006	6218504	7119846	13338349	bb	1.138
2378-TCDD	26.751	1.001	862050	1111748	1973797	bb	1.049
12378-PeCDD	31.845	1.000	4372135	2818741	7190876	bb	0.998
123478-HxCDD	36.504	1.001	4101605	3279812	7381418	bd	0.971
123678-HxCDD	36.636	1.001	3897877	3144878	7042755	db	0.918
123789-HxCDD	37.052	1.012	3787462	3058311	6845773	bb	0.932
1234678-HpCDD	41.393	1.001	3254680	3143964	6398644	bb	1.017
OCDD	47.333	1.000	5433991	6142544	11576534	bb	1.008
13C-2378-TCDF	26.078	1.006	3285554	4175837	7461391	bb	1.473
13C-12378-PeCDF	30.223	1.166	3537723	2281843	5819566	bb	1.148
13C-23478-PeCDF	31.571	1.218	3389366	2178976	5568342	bb	1.113
13C-123478-HxCDF	35.254	0.952	1528218	2976137	4502355	bd	1.209
13C-123678-HxCDF	35.397	0.956	1642576	3152757	4795332	db	1.269
13C-234678-HxCDF	36.340	0.981	1587882	3005043	4572925	bb	1.236
13C-123789-HxCDF	37.479	1.012	1360127	2574128	3934255	bb	1.107
13C-1234678-HpCDF	39.551	1.068	1197221	2682361	3879581	bb	1.051
13C-1234789-HpCDF	42.259	1.141	906193	2008202	2914395	bb	0.815
13C-1234-TCDD	25.914	0.000	2356282	2978709	5334991	bb	1.000
13C-2378-TCDD	26.721	1.031	2089038	2678050	4767087	bb	0.946
13C-12378-PeCDD	31.834	1.228	2176707	1388954	3565661	bb	0.721
13C-123478-HxCDD	36.482	0.985	2053056	1626840	3679895	bd	0.991
13C-123678-HxCDD	36.613	0.988	2118569	1692415	3810984	db	1.025
13C-1234678-HpCDD	41.371	1.117	1592480	1541752	3134232	bb	0.866
13C-OCDD	47.315	1.277	2707585	3035714	5743298	bb	0.769

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290\PRO\121123IC.qld
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Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

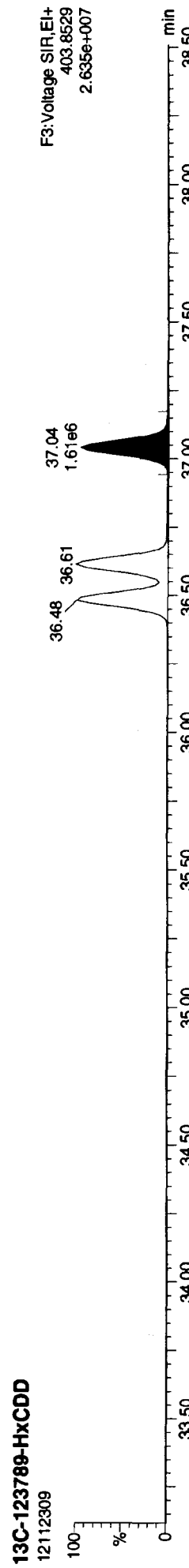
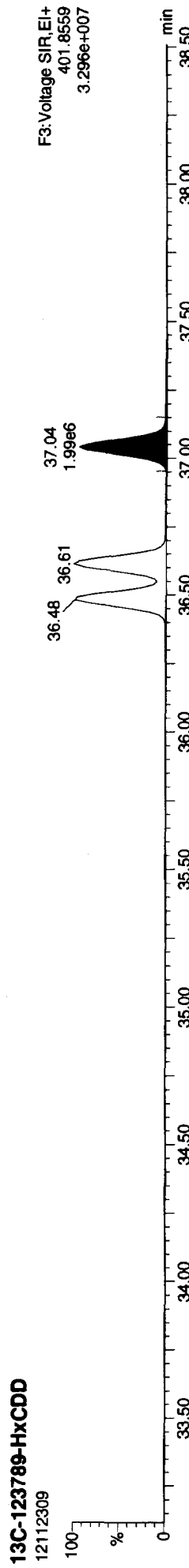
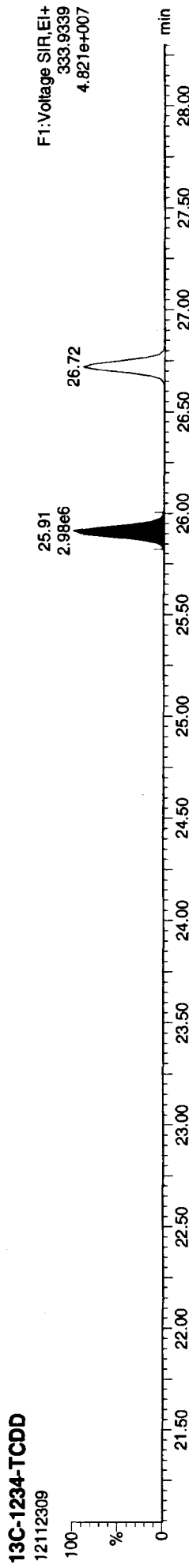
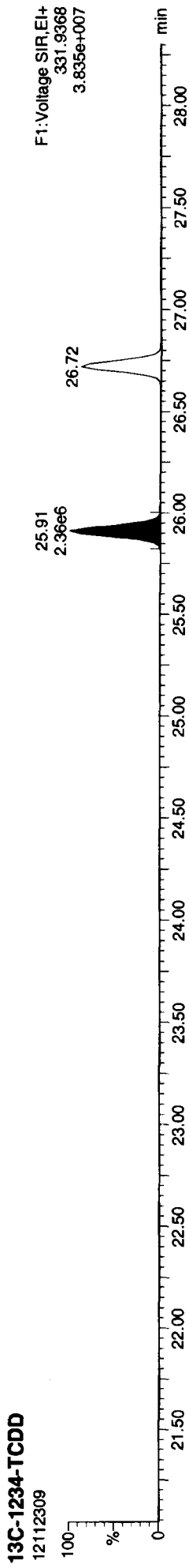
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Total-penta1			0										0.015	40.536
Total-pentafurans			12805170					0.911					413.754	413.435
Total-hexafurans			20390854					1.032					817.624	817.414
Total-heptafurans			8461646					1.223					409.207	409.192
Total-Furans			49009411					1.041					2089.738	2088.881
Total-tetra-dioxins			886981					1.049					40.635	40.620
Total-penta-dioxins			4384844					0.998					202.817	202.847
Total-hexa-dioxins			11786944					0.940					604.131	603.942
Total-hepta-dioxins			3275573					1.017					202.065	202.065
Total-Dioxins			25768332					0.985					1449.425	1449.051
Total-TEQ			7477743										3539.163	3537.932
37CL-2378-TCDD		26.736	1.032	2091817		2091817		1.044				12418.7		37.571
FUNCTION1 PFK			1187850											0.000
FUNCTION2 PFK			60223											0.000
FUNCTION3 PFK			606171											0.000
FUNCTION4 PFK			311261											0.000
FUNCTION5 PFK			410475											0.000
FUNCTION1 HXCDPE			349											0.000
FUNCTION1 HPCDPE			2544											0.000
FUNCTION2 HPCDPE			10109											0.000
FUNCTION3 OCDPE			119											0.000
FUNCTION4 NCDPE			82											0.000
FUNCTION5 DCDPE			0											0.000

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123\C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

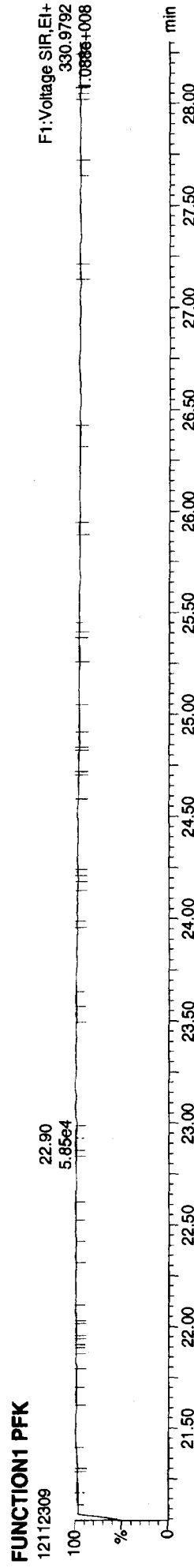
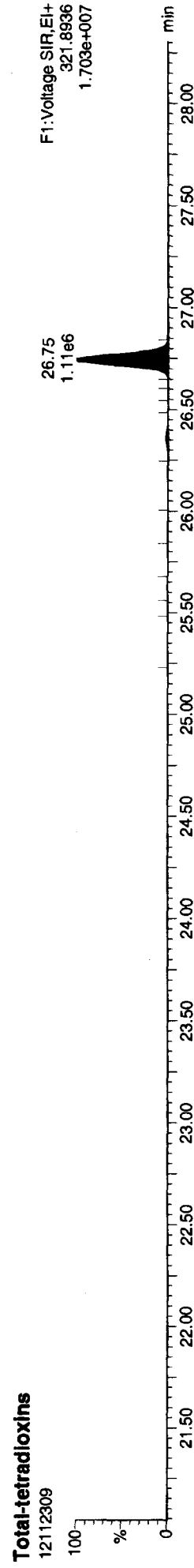
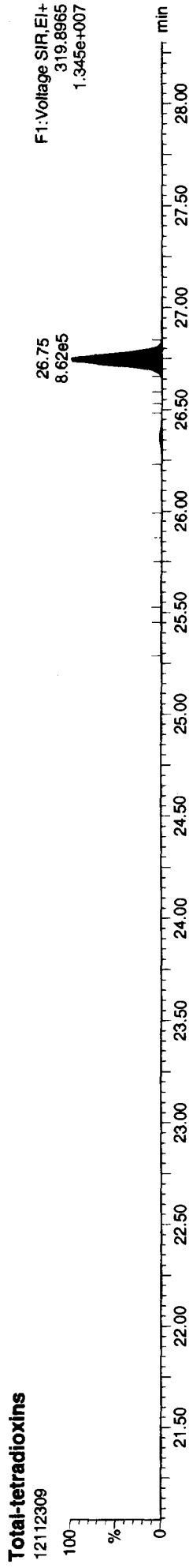
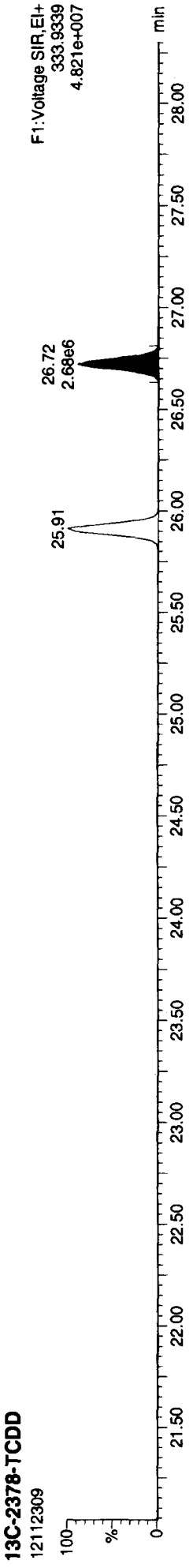
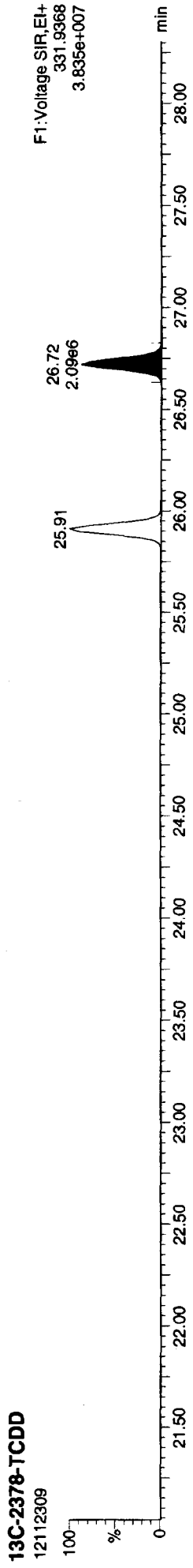
Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CSA, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qid
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

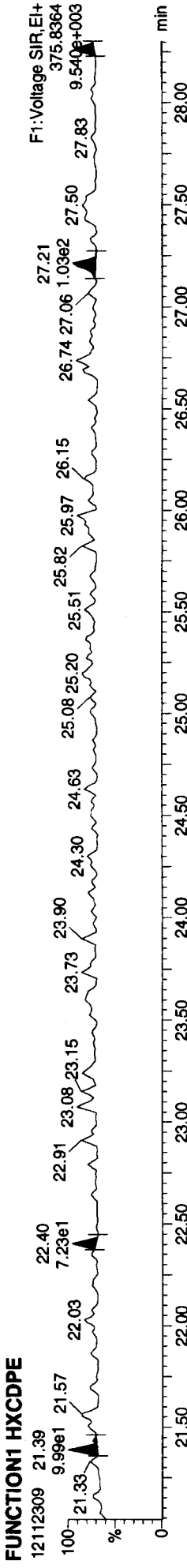
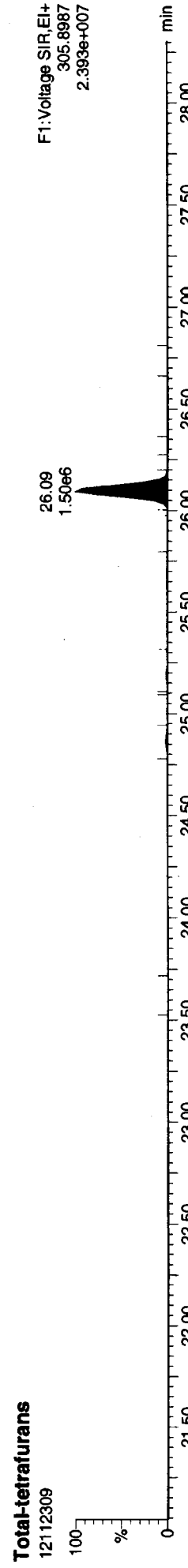
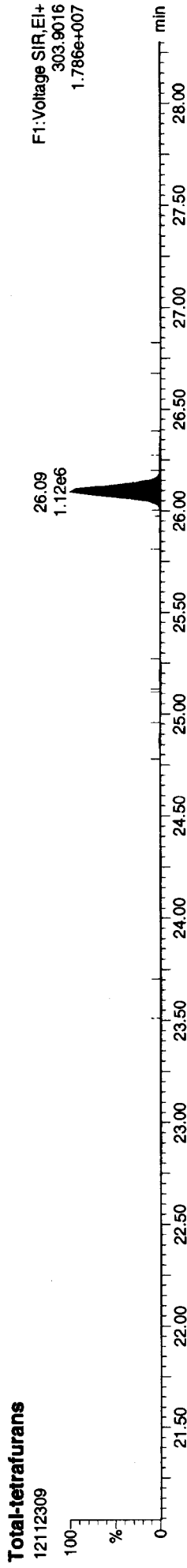
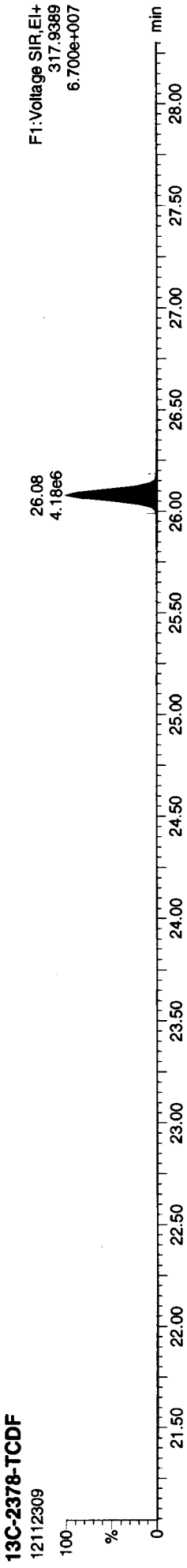
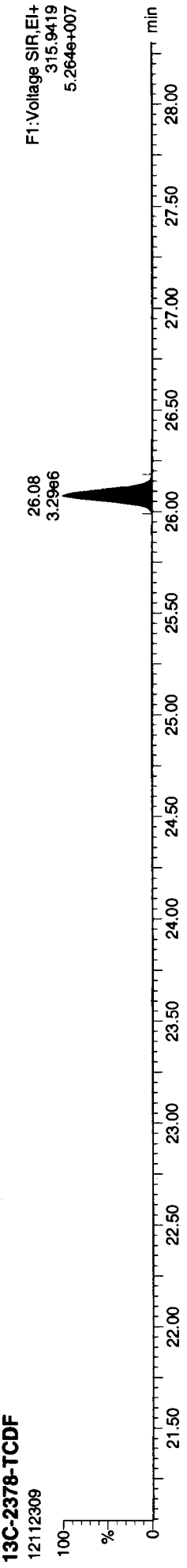
Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report **MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

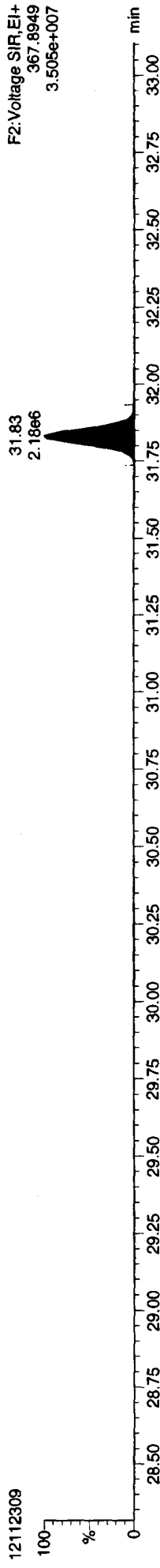
Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk



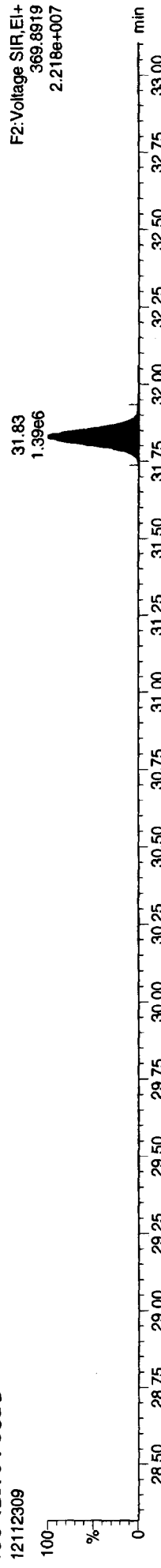
Dataset: P:\DIOXIN8290.PRO\121123\IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

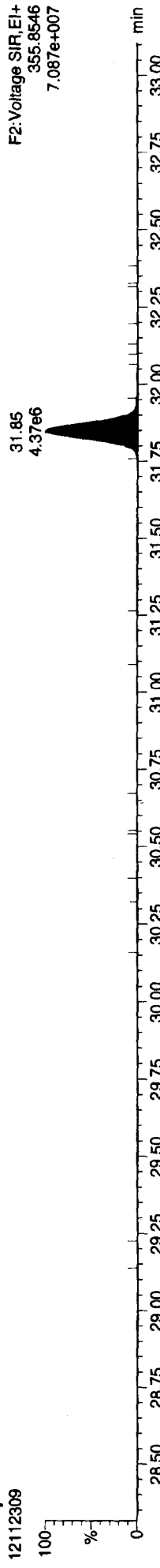
13C-12378-PeCDD



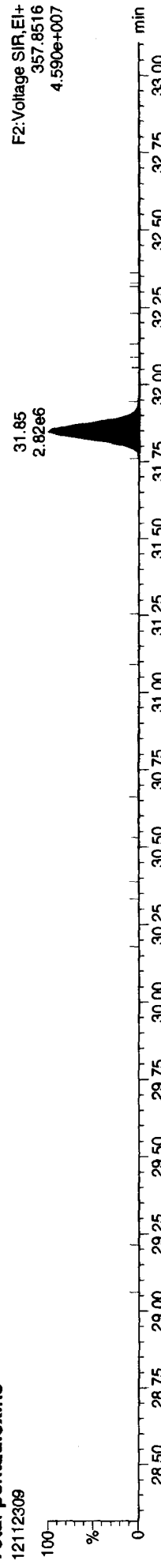
13C-12378-PeCDD



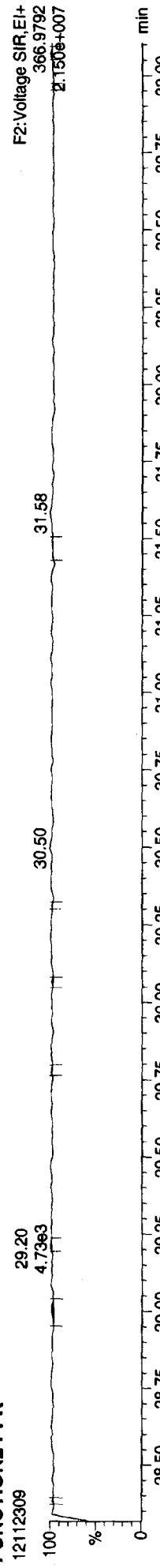
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

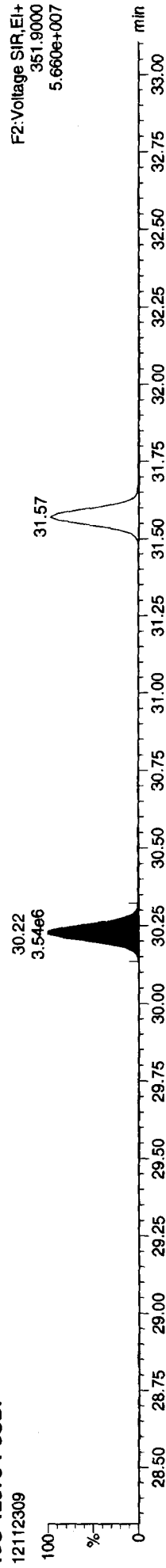


Quantify Sample Report MassLynx 4.1 SCN 714

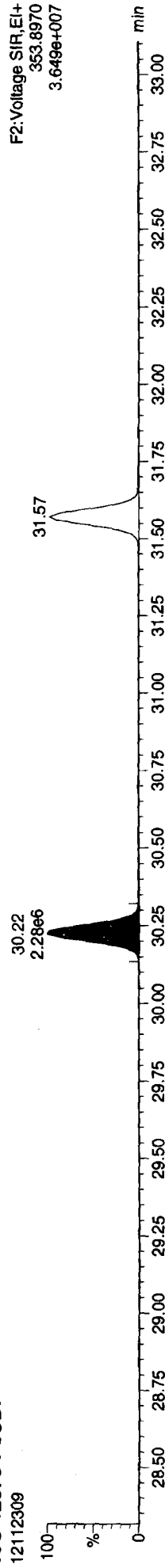
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

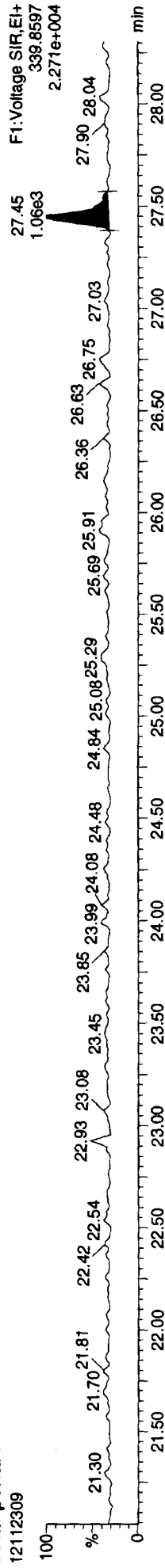
13C-12378-PeCDF



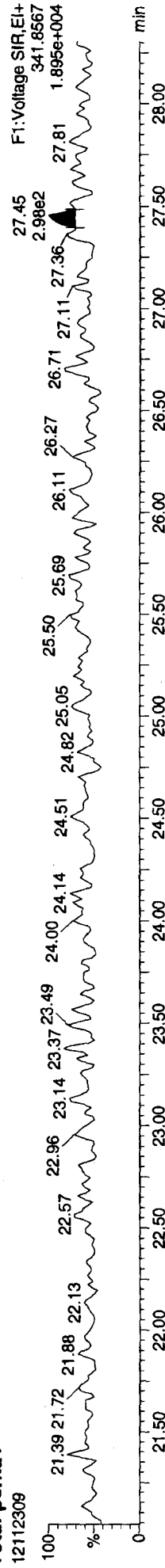
13C-12378-PeCDF



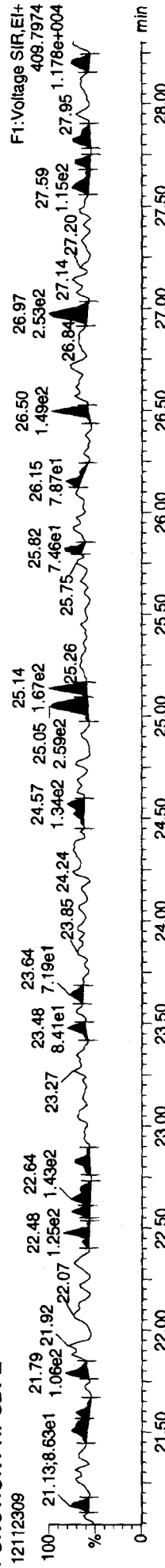
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

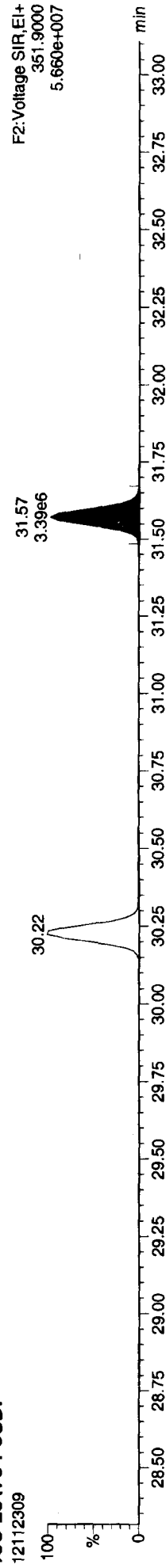


Quantify Sample Report MassLynx 4.1 SCN 714

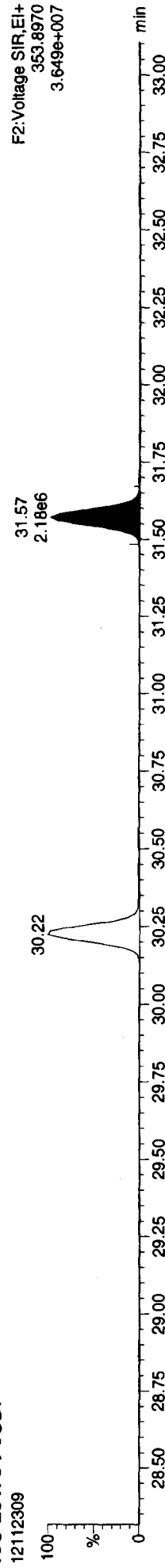
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

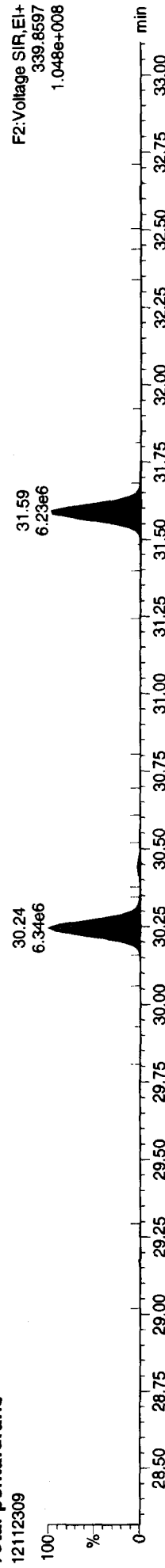
13C-23478-PeCDF



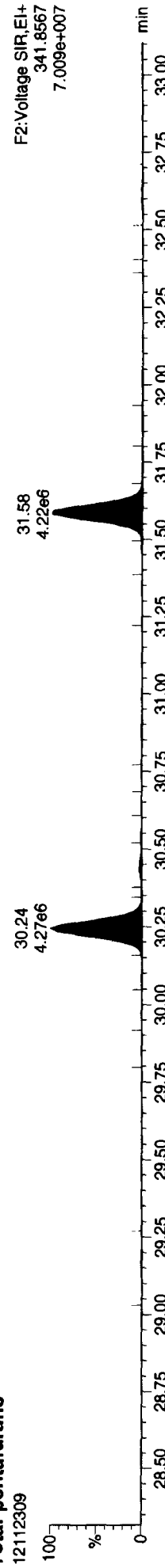
13C-23478-PeCDF



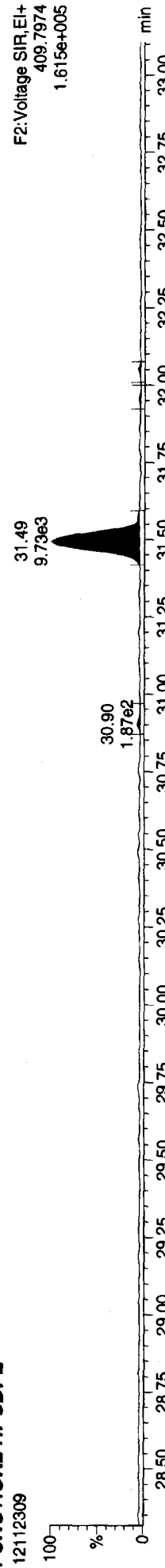
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



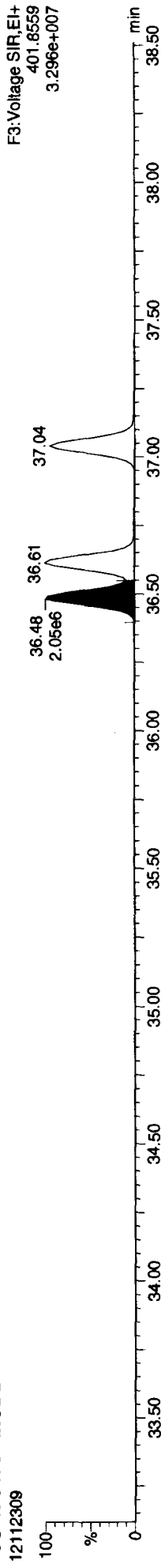
Dataset: P:\DIOXIN8290.PRO\1211231C.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

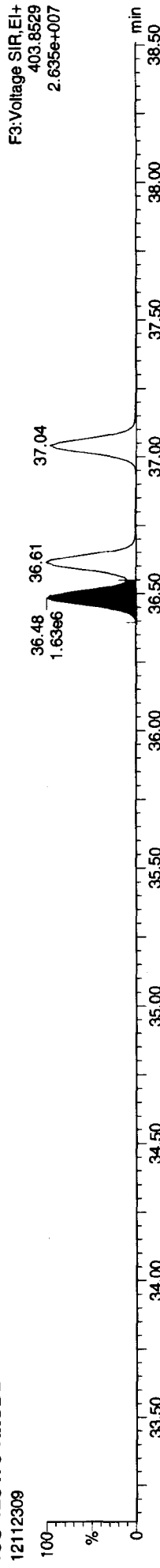
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

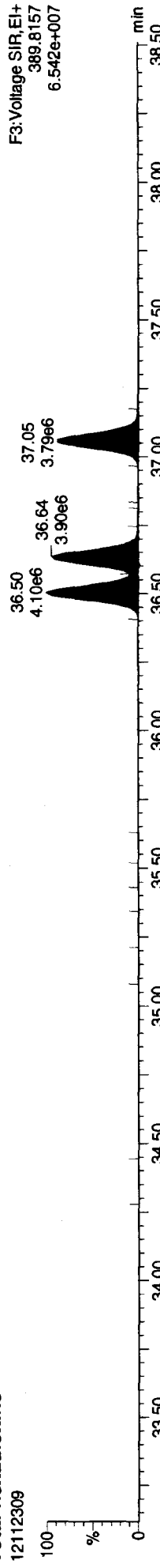
13C-123478-HxCDD



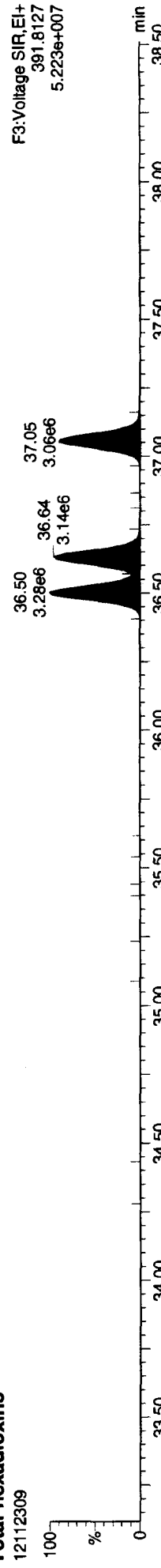
13C-123478-HxCDD



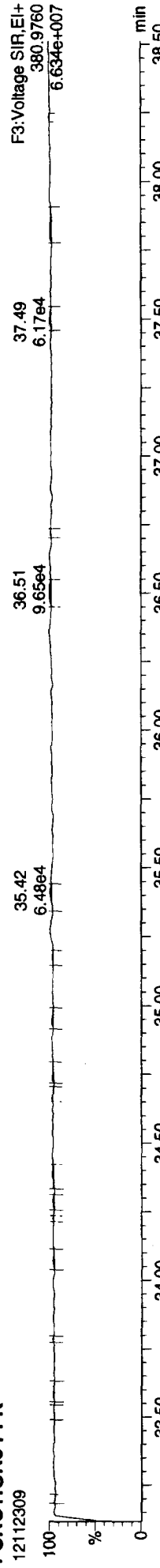
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

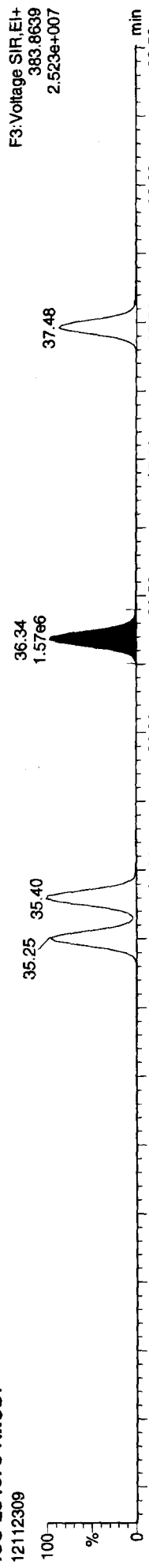


Quantify Sample Report MassLynx 4.1 SCN 714

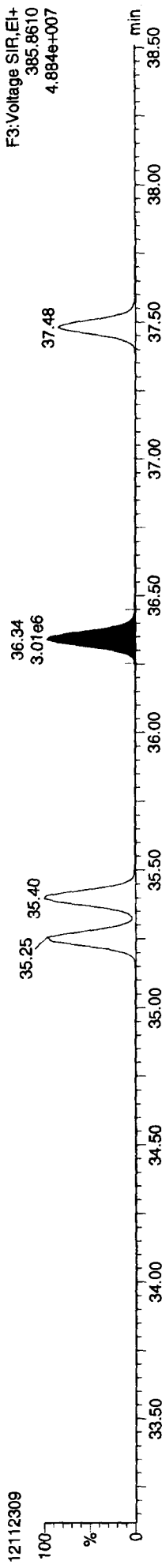
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

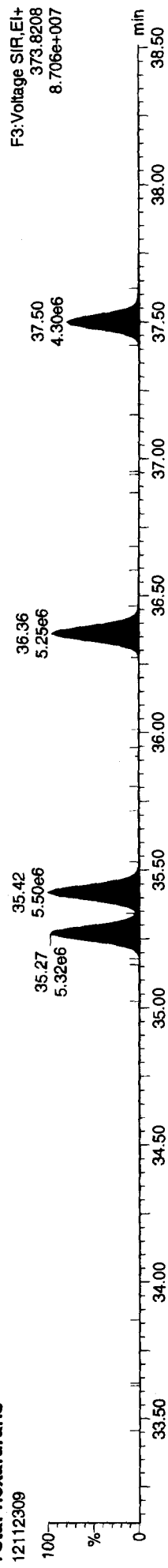
13C-234678-HxCDF



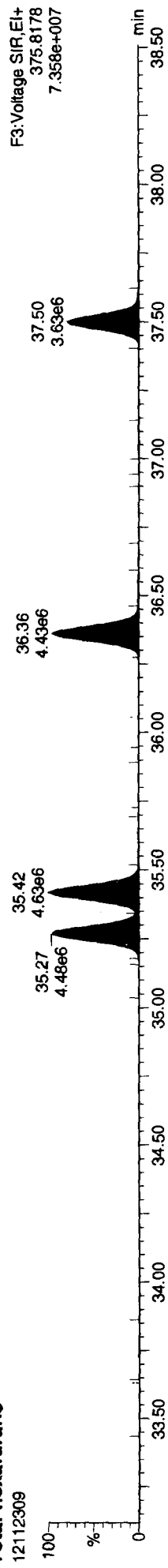
13C-234678-HxCDF



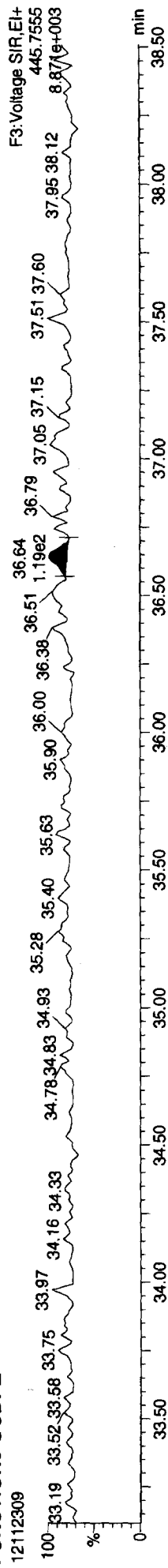
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE

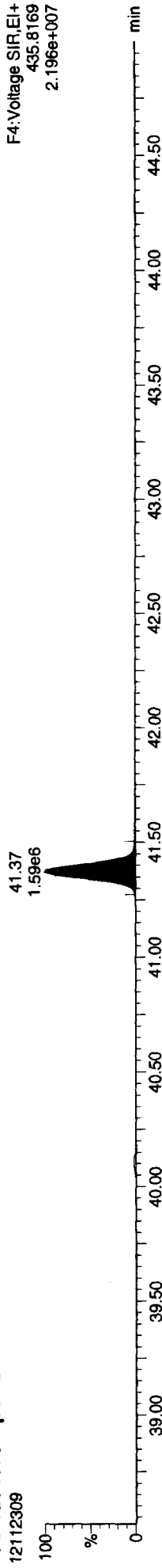


Quantify Sample Report MassLynx 4.1 SCN 714

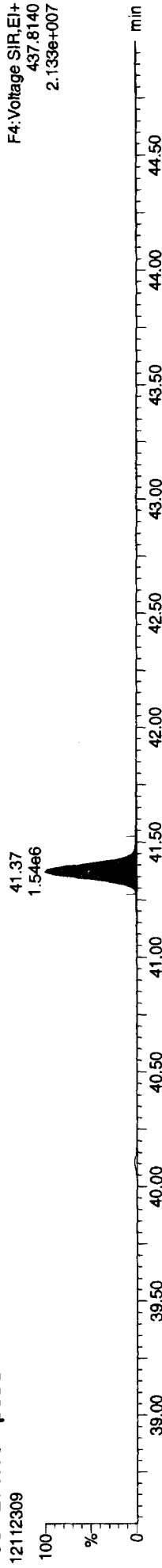
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

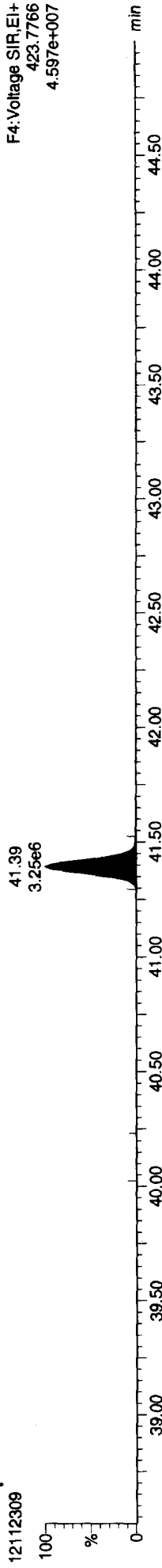
13C-1234678-HpCDD



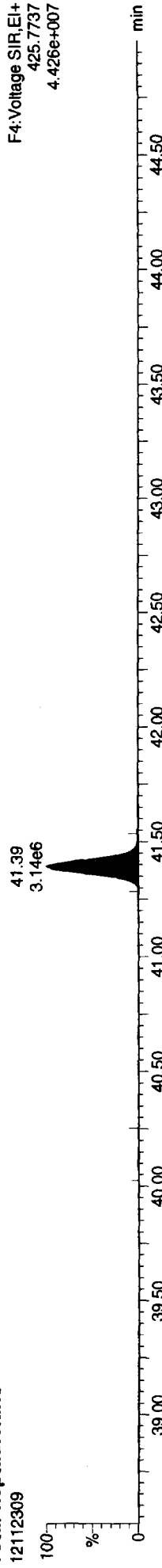
13C-1234678-HpCDD



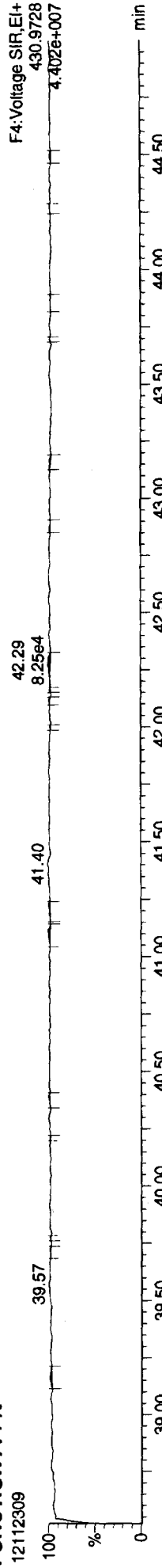
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

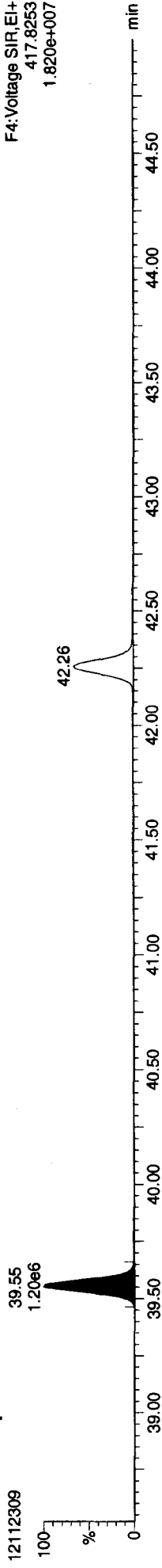


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qid
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

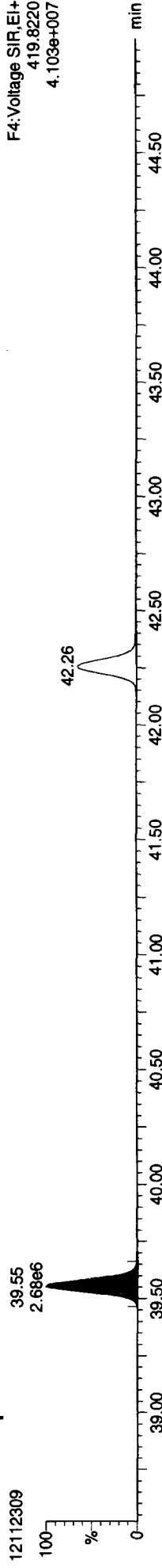
Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



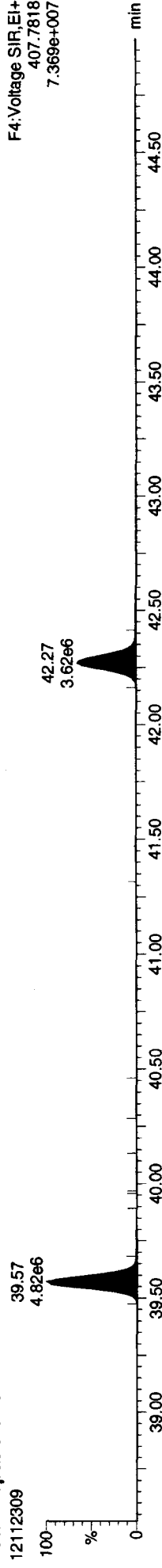
F4: Voltage SIR, EI+
417.8253
1.820e+007

13C-1234678-HpCDF



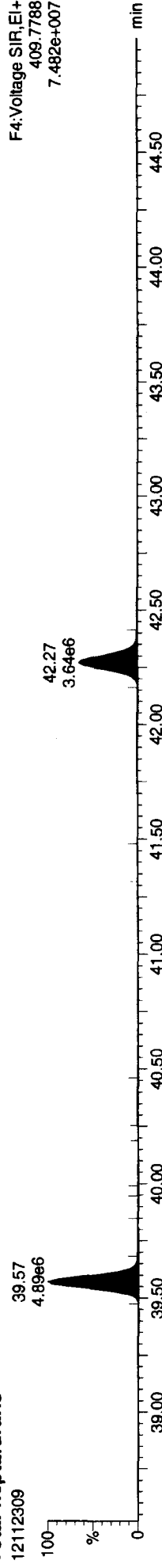
F4: Voltage SIR, EI+
419.8220
4.103e+007

Total-heptafurans



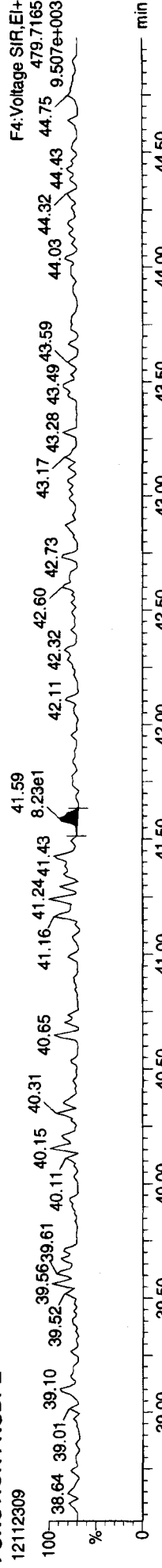
F4: Voltage SIR, EI+
407.7818
7.369e+007

Total-heptafurans



F4: Voltage SIR, EI+
409.7788
7.482e+007

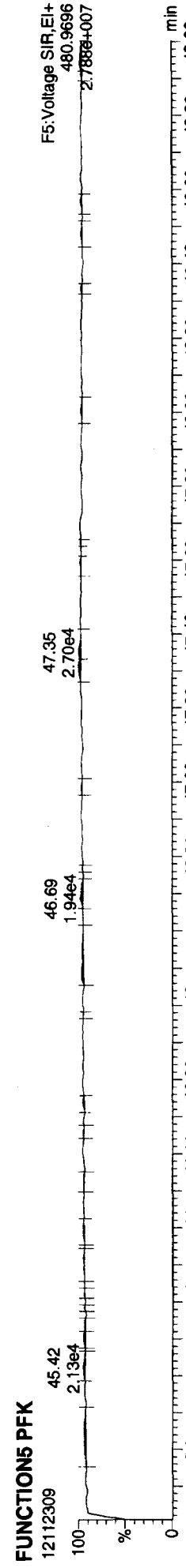
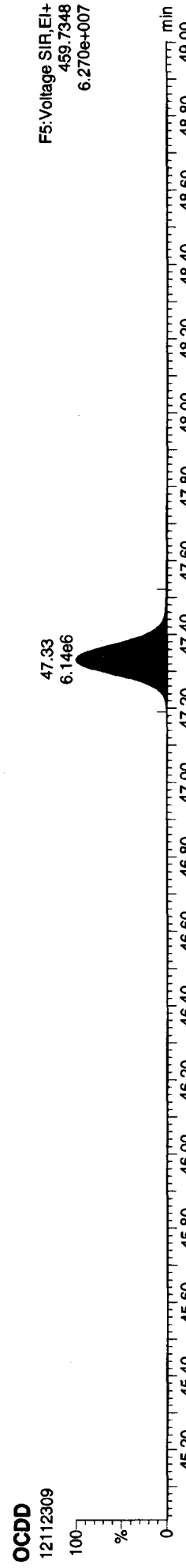
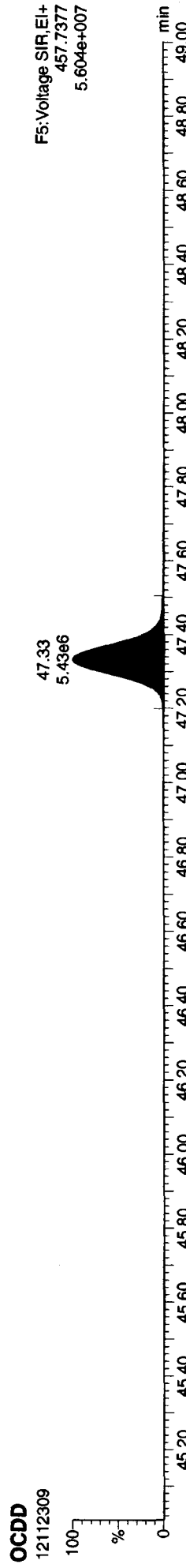
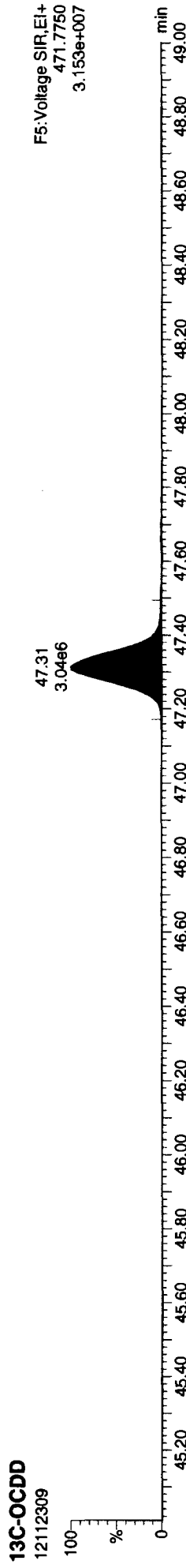
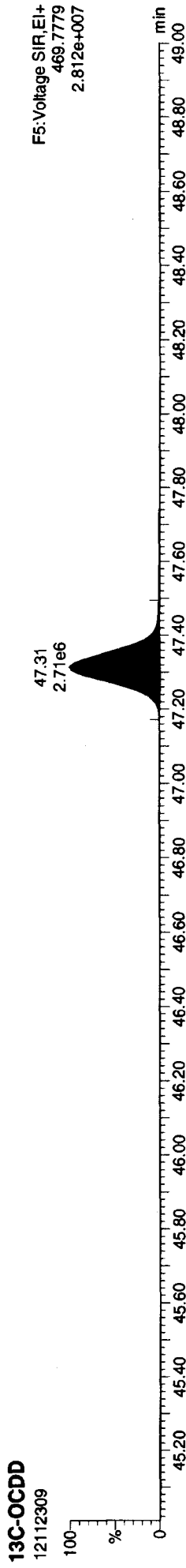
FUNCTION4 NCDPE



F4: Voltage SIR, EI+
479.7165
44.75

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

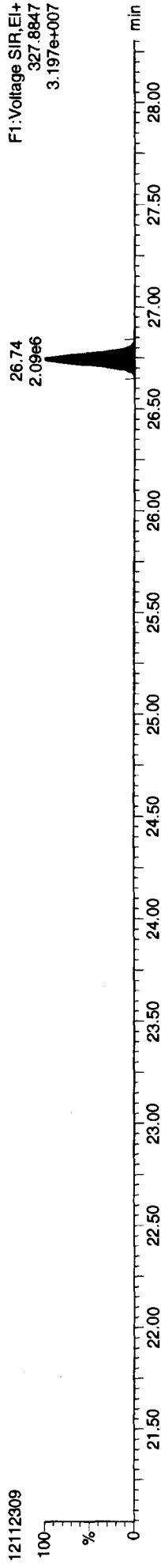
Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk



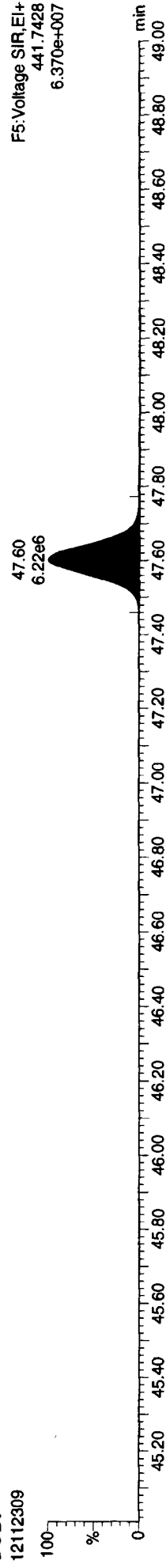
Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:03 Pacific Standard Time

Name: 12112309, Date: 23-Nov-2012, Time: 17:37:45, ID: CS4, Conditions: AUTOSPEC01, User: pk

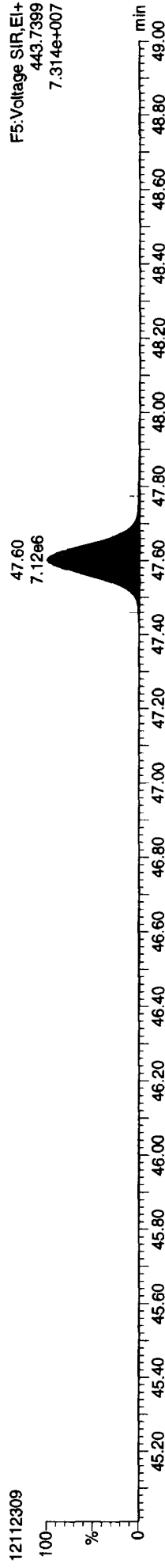
37CL-2378-TCDD



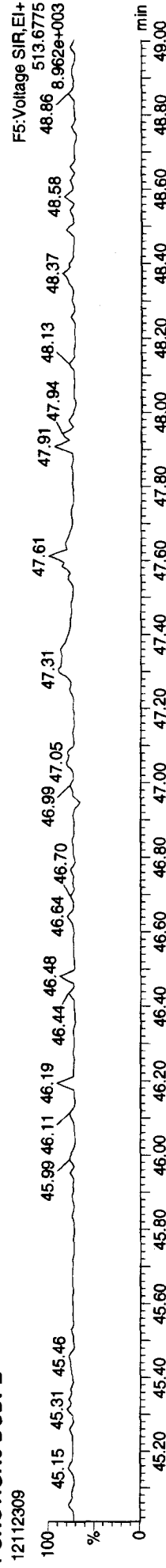
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Method: P:\DIOXIN8290.PROMethDB\Ioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123IC.AL.cdb 26 Nov 2012 09:23:13

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

Compound	Area	Height	Retention	Abundance	Mass	Height	Abundance	Mass	Height	Abundance	Mass	Height	Abundance	Mass
2378-TCDF	26.093	1.001	10156803	13548127	23704930	bb	0.877	0.750	0.770	50311.8	202.161	202.161	202.161	202.161
12378-PeCDF	30.245	1.000	63442416	43374736	106817152	bb	0.896	1.463	1.550	102388.2	1014.081	1014.081	1014.081	1014.081
23478-PeCDF	31.593	1.001	63592136	43667692	107459828	bb	0.926	1.450	1.550	102186.0	1012.957	1012.957	1012.957	1012.957
123478-HxCDF	35.276	1.001	57197636	48104260	105301896	bd	1.068	1.189	1.240	51956.4	1034.946	1034.946	1034.946	1034.946
234678-HxCDF	36.372	1.001	57102696	47976804	105079500	bb	1.037	1.190	1.240	52089.3	1029.533	1029.533	1029.533	1029.533
123678-HxCDF	35.418	1.000	58363480	49253956	107617436	db	1.035	1.185	1.240	53248.2	1033.576	1033.576	1033.576	1033.576
123789-HxCDF	37.512	1.001	49284076	41322052	90606128	bb	0.987	1.193	1.240	45119.2	1032.540	1032.540	1032.540	1032.540
1234678-HpCDF	39.573	1.000	53423632	53626824	107050456	bb	1.232	0.996	1.050	66007.3	1016.970	1016.970	1016.970	1016.970
1234789-HpCDF	42.280	1.000	41571056	41697728	83268784	bb	1.215	0.997	1.050	45025.8	1029.105	1029.105	1029.105	1029.105
OCDF	47.621	1.006	74597464	84892040	159489504	bb	1.138	0.879	0.890	116333.9	2073.036	2073.036	2073.036	2073.036
2378-TCDD	26.750	1.001	8121943	10505997	18627940	bb	1.049	0.773	0.770	69685.9	200.665	200.665	200.665	200.665
12378-PeCDD	31.856	1.001	47054832	30387568	77442400	bb	0.998	1.548	1.550	151323.6	1028.795	1028.795	1028.795	1028.795
123478-HxCDD	36.504	1.000	44909516	35890444	80799960	bd	0.971	1.251	1.240	57783.5	1030.397	1030.397	1030.397	1030.397
123678-HxCDD	36.635	1.000	43732224	35173284	78905508	db	0.918	1.243	1.240	56933.6	1033.148	1033.148	1033.148	1033.148
123789-HxCDD	37.063	1.012	43197268	34859756	78057024	bb	0.932	1.239	1.240	55861.3	1021.228	1021.228	1021.228	1021.228
1234678-HpCDD	41.403	1.001	37453088	35873324	73328412	bb	1.017	1.044	1.050	41201.2	1017.408	1017.408	1017.408	1017.408
OCDD	47.361	1.000	65176624	73259264	138435888	bb	1.008	0.890	0.890	111857.1	2029.931	2029.931	2029.931	2029.931
13C-2378-TCDF	26.078	1.006	5861890	7514370	13376260	bb	1.473	0.780	0.770	15314.5	102.974	102.974	102.974	102.974
13C-12378-PeCDF	30.234	1.167	7167588	4586062	11753650	bb	1.148	1.563	1.550	36544.3	116.080	116.080	116.080	116.080
13C-23478-PeCDF	31.571	1.218	6979810	4474821	11454631	bb	1.113	1.560	1.550	34617.8	116.700	116.700	116.700	116.700
13C-123478-HxCDF	35.254	0.951	3259670	6268416	9525086	bd	1.209	0.520	0.510	358.8	97.716	97.716	97.716	97.716
13C-123678-HxCDF	35.408	0.956	3462959	6601223	10064182	db	1.269	0.525	0.510	394.0	98.393	98.393	98.393	98.393
13C-234678-HxCDF	36.350	0.981	3378972	6465867	9844839	bb	1.236	0.523	0.510	382.0	98.805	98.805	98.805	98.805
13C-123789-HpCDF	37.490	1.012	3049819	5944131	8893950	bb	1.107	0.522	0.510	347.8	99.674	99.674	99.674	99.674
13C-1234678-HpCDF	39.562	1.068	2634510	5910353	8544862	bb	1.051	0.446	0.440	10742.2	100.826	100.826	100.826	100.826
13C-1234789-HpCDF	42.269	1.141	2066623	4592781	6659403	bb	0.815	0.450	0.440	7201.7	101.381	101.381	101.381	101.381
13C-1234-TCDD	25.914	0.000	3878525	4942588	8821113	bb	1.000	0.785	0.770	11555.0	100.000	100.000	100.000	100.000
13C-2378-TCDD	26.721	1.031	3852857	4994901	8847757	bb	0.946	0.771	0.770	11156.9	106.058	106.058	106.058	106.058
13C-12378-PeCDD	31.834	1.228	4602958	2939284	7542242	bb	0.721	1.566	1.550	29088.9	118.642	118.642	118.642	118.642
13C-123478-HxCDD	36.493	0.985	4504004	3573475	8077478	bd	0.991	1.260	1.240	17088.1	101.108	101.108	101.108	101.108
13C-123678-HxCDD	36.624	0.988	4613656	3704917	8318573	db	1.025	1.245	1.240	17628.9	100.689	100.689	100.689	100.689
13C-1234678-HpCDD	41.382	1.117	3623856	3463615	7087471	bb	0.866	1.046	1.050	6486.0	101.488	101.488	101.488	101.488
13C-OCDD	47.343	1.278	6365736	7160195	13525931	bb	0.769	0.889	0.890	20786.0	218.119	218.119	218.119	218.119

VR82 : 00700

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123IC.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

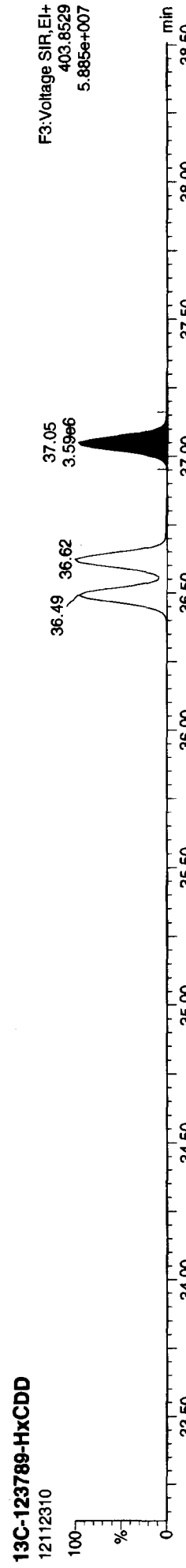
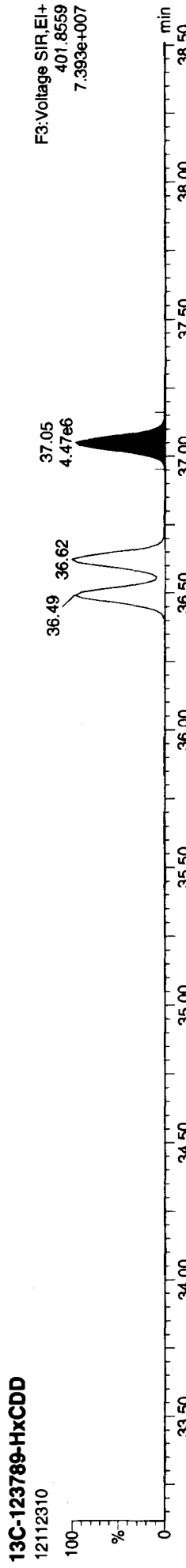
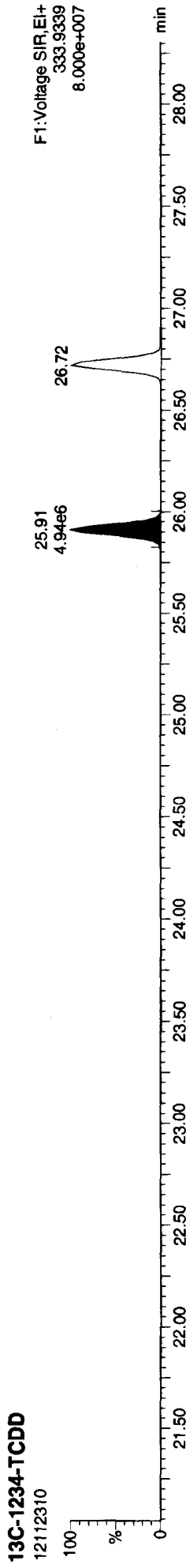
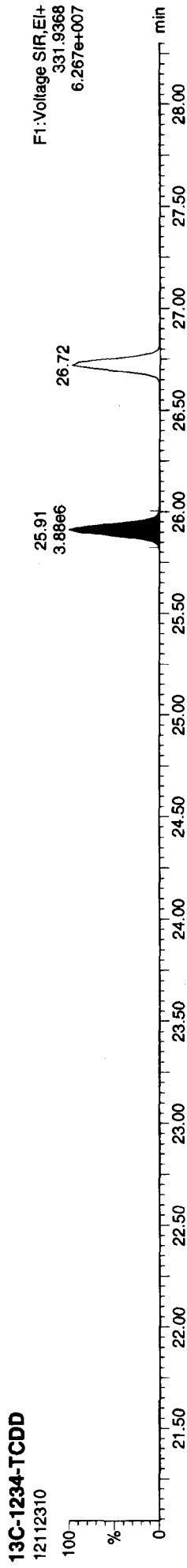
	37.051	0.000	4474912	3587779	8062691	bb	1.000	1.247	1.240	NO	16908.9	205.927	100.000
13C-123789-HxCDD							0.877						
Total-tetrafurans			10328127										205.618
Total-penta1			991									0.023	0.015
Total-pentafurans			129098142				0.911					2060.420	2059.741
Total-hexafurans			222220906				1.032					4135.653	4135.653
Total-heptafurans			95047297				1.223					2048.226	2047.199
Total-Furans			531292927				1.041					10523.284	10521.262
Total-tetra-dioxins			8333050				1.049					205.919	205.852
Total-penta-dioxins			47152508				0.998					1030.935	1030.931
Total-hexa-dioxins			131846862				0.940					3085.119	3084.964
Total-hepta-dioxins			37557536				1.017					1020.645	1020.268
Total-Dioxins			290066579				0.985					7372.559	7371.945
Total-TEQ			821359507									17895.843	17893.207
37CL-2378-TCDD	26.750	1.032	19823958		19823958		1.044				74958.3		215.343
FUNCTION1 PFK			1019534										
FUNCTION2 PFK			20556										0.000
FUNCTION3 PFK			45047985										0.000
FUNCTION4 PFK			20180373										
FUNCTION5 PFK			256260										
FUNCTION1 HXCDPE			5772										0.000
FUNCTION1 HPCDPE			2057										0.000
FUNCTION2 HPCDPE			84809										0.000
FUNCTION3 OCDPE			10302										0.000
FUNCTION4 NCDPE			1410										0.000
FUNCTION5 DCDPE			2552										0.000

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123\IC.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

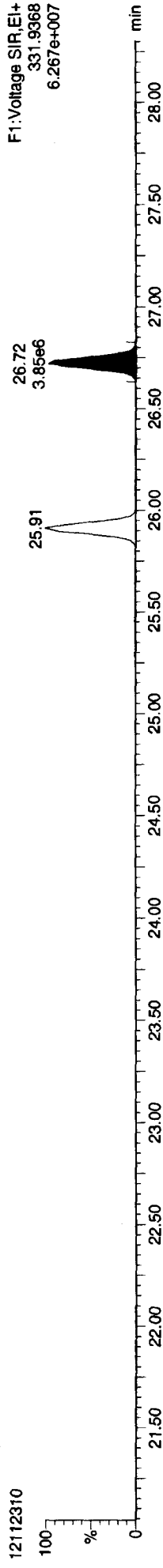


Quantity Sample Report MassLynx 4.1 SCN 714

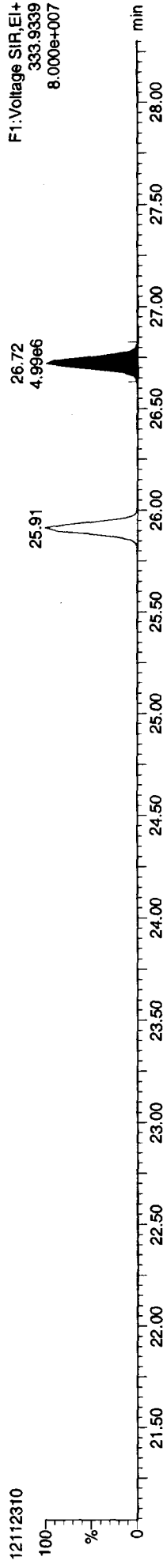
Dataset: F:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

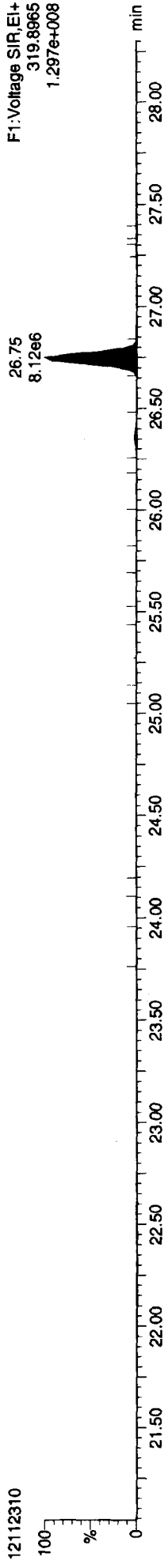
13C-2378-TCDD



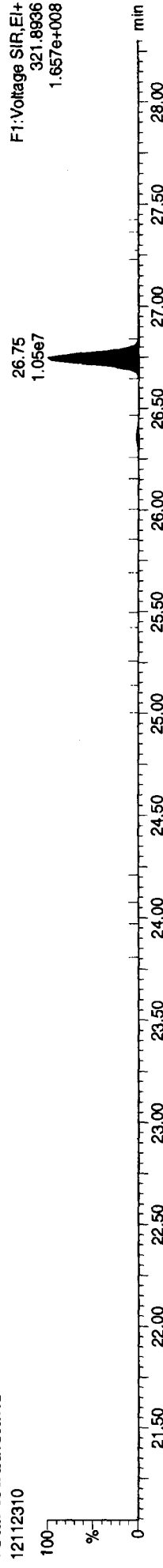
13C-2378-TCDD



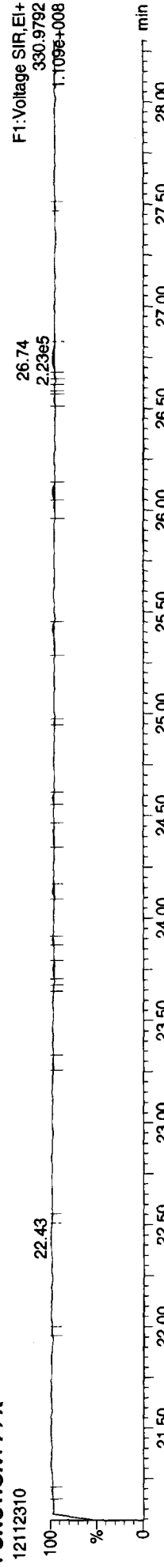
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

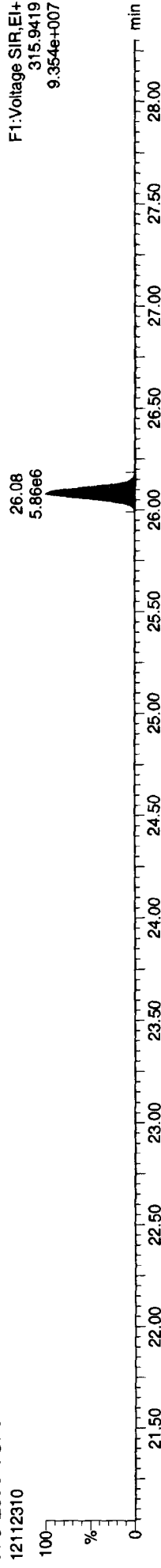


Quantify Sample Report MassLynx 4.1 SCN 714

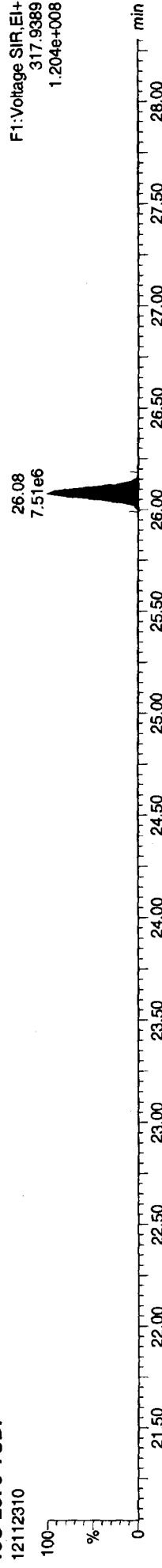
Dataset: P:\DIOXIN8290.PROV1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

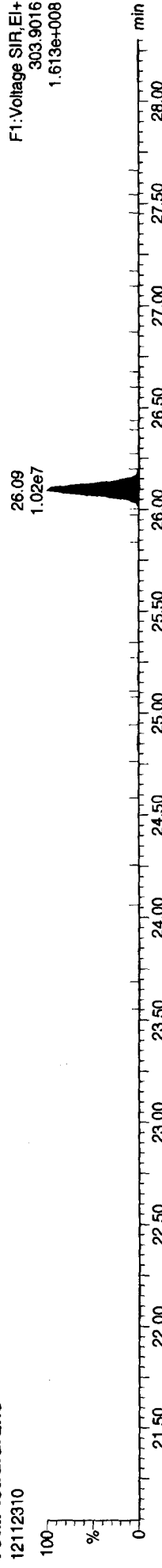
13C-2378-TCDF



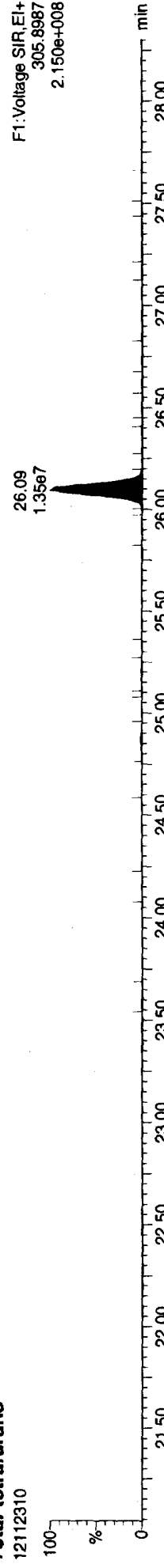
13C-2378-TCDF



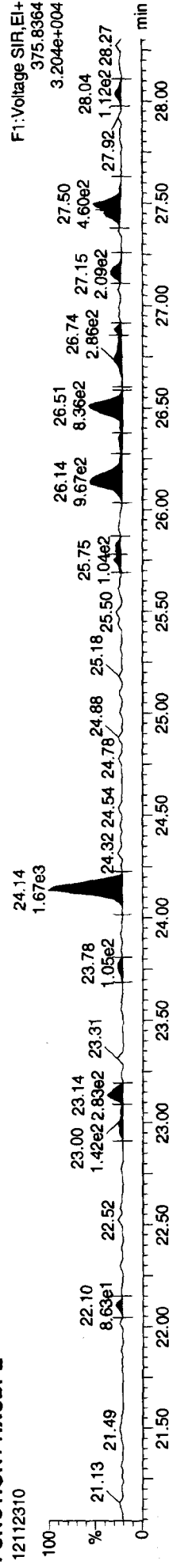
Total-tetrafurans



Total-tetrafurans



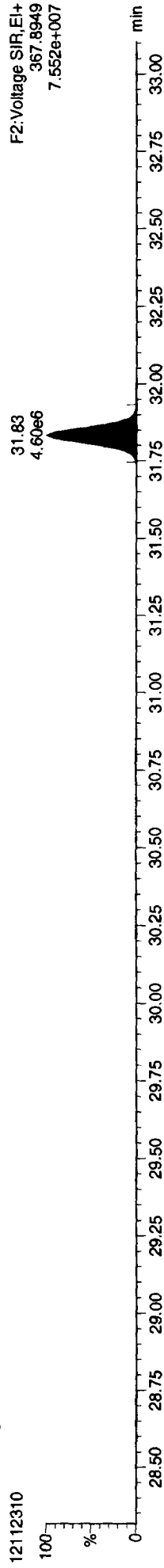
FUNCTION1 HXCDPE



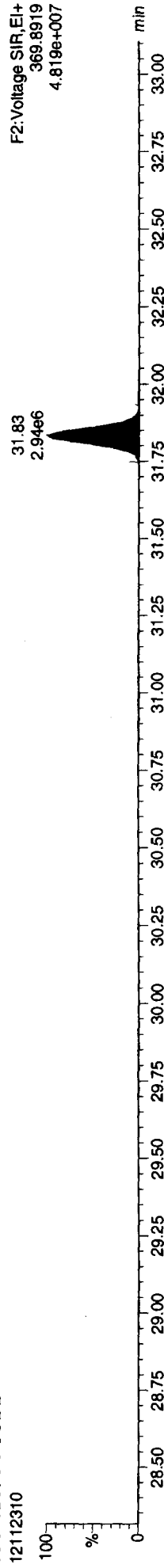
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

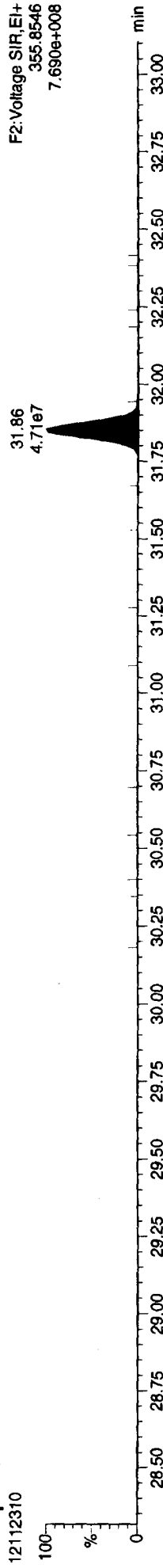
13C-12378-PeCDD



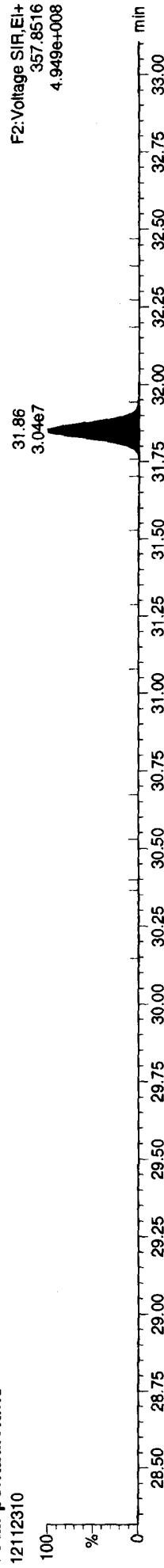
13C-12378-PeCDD



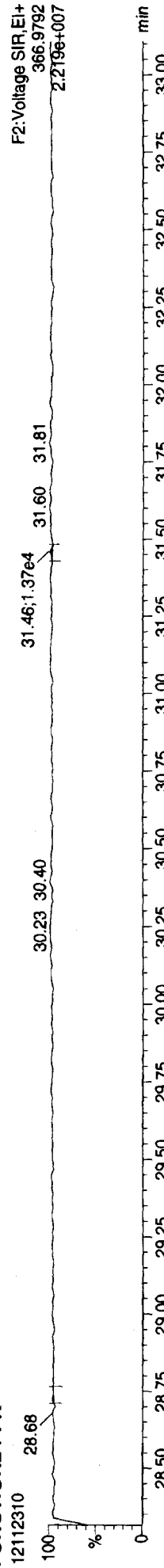
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

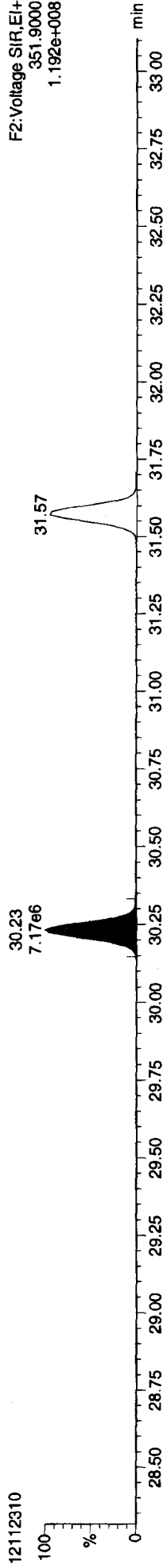


Quantify Sample Report MassLynx 4.1 SCN 714

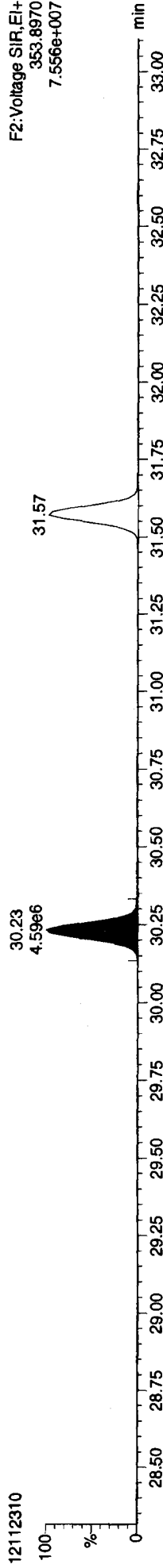
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

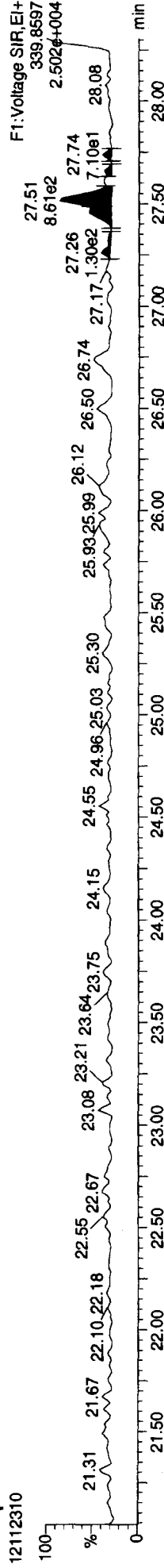
13C-12378-PeCDF



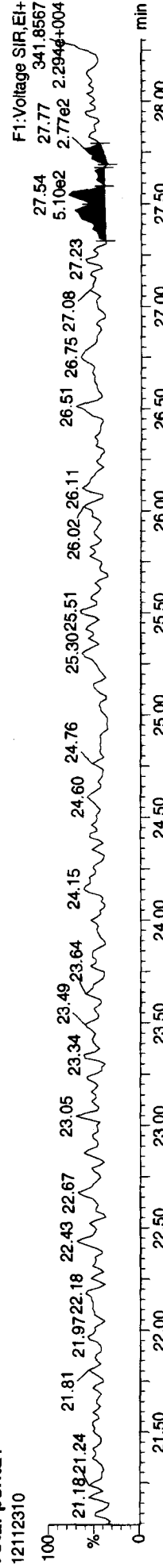
13C-12378-PeCDF



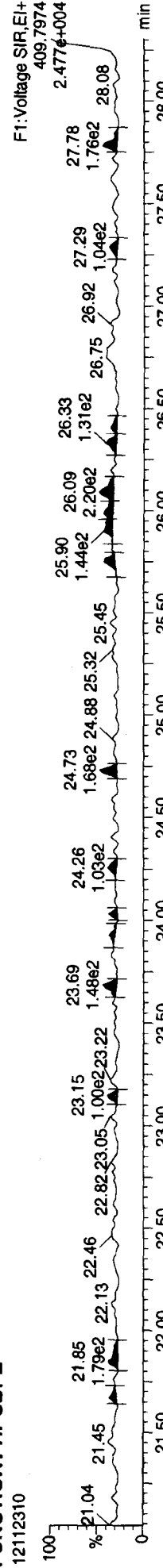
Total-penta1



Total-penta1



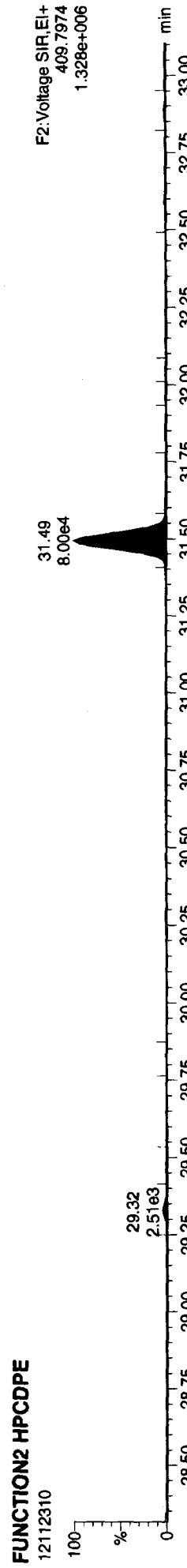
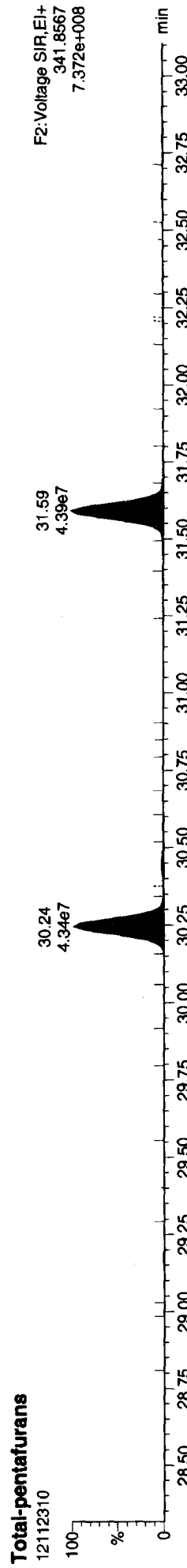
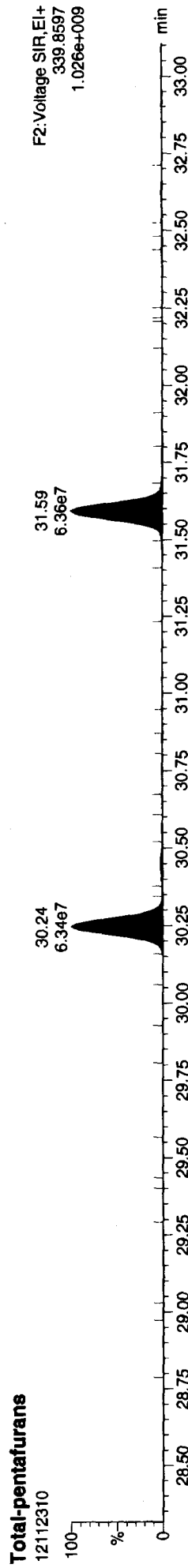
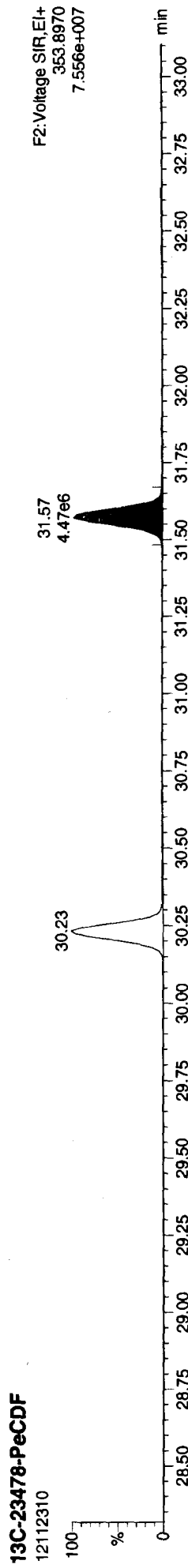
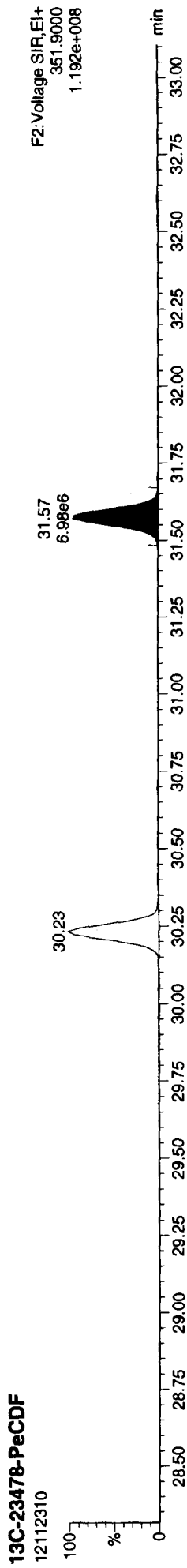
FUNCTION1 HPCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk



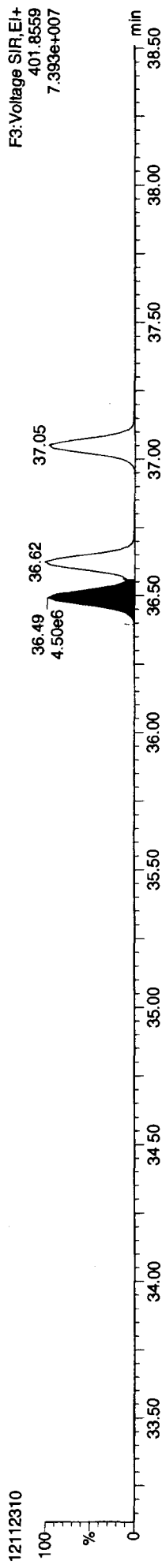
Dataset: P:\DIOXIN8290.PRO\1211231C.qld

Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time

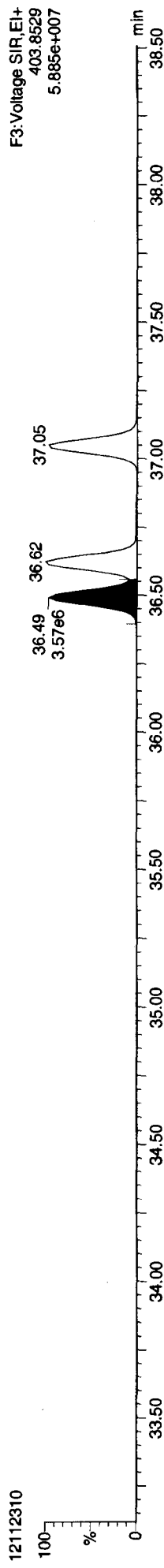
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

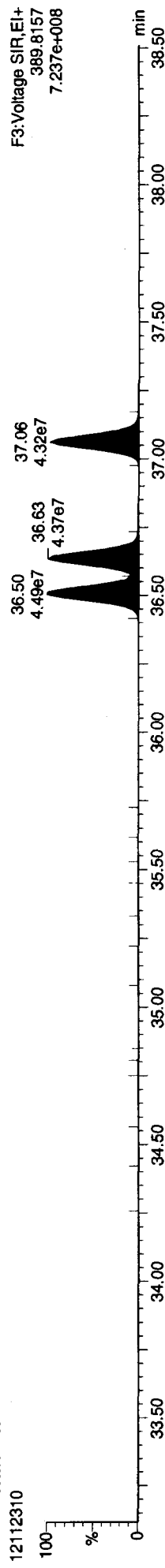
13C-123478-HxCDD



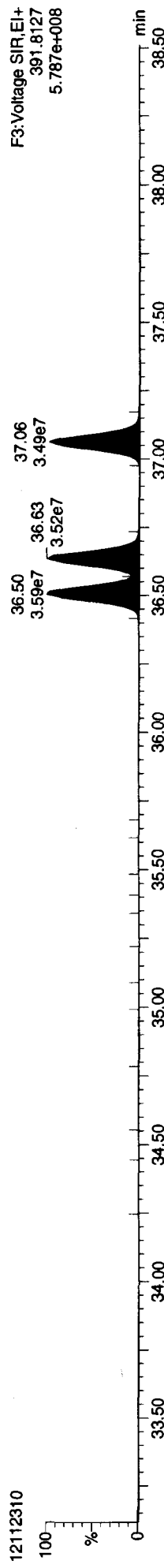
13C-123478-HxCDD



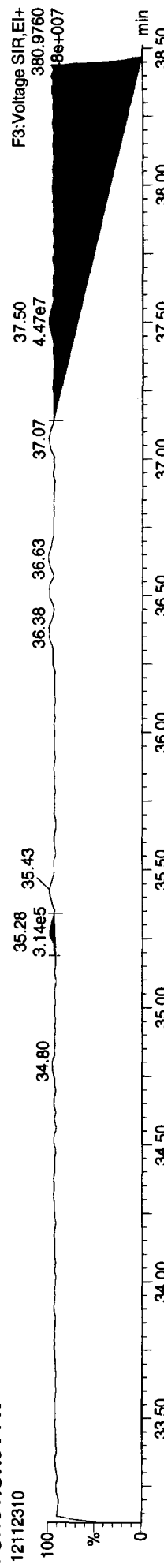
Total-hexadioxins



Total-hexadioxins

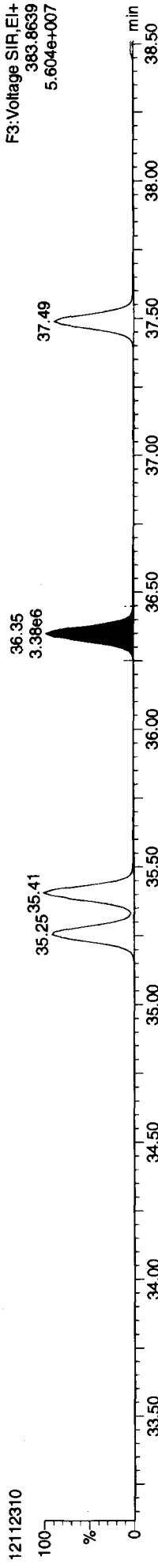


FUNCTION3 PFK

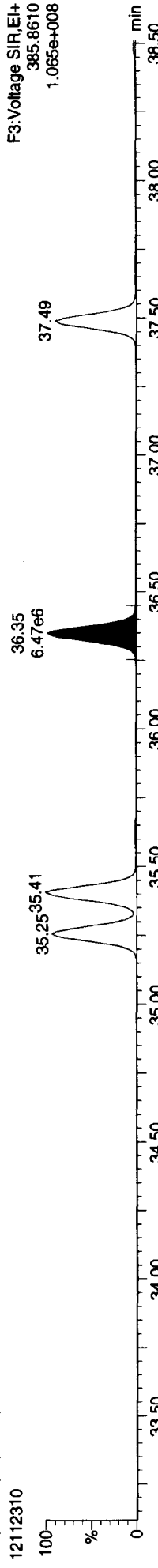


Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

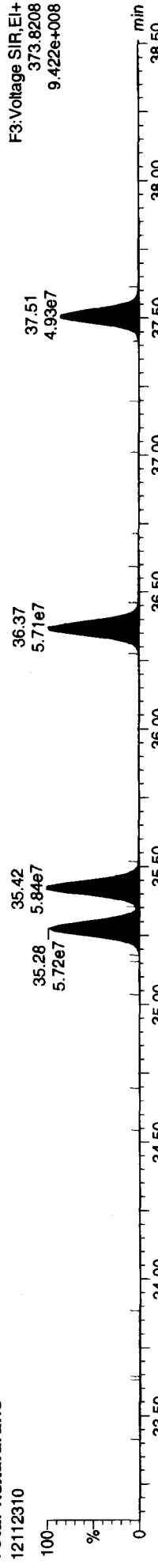
13C-234678-HxCDF



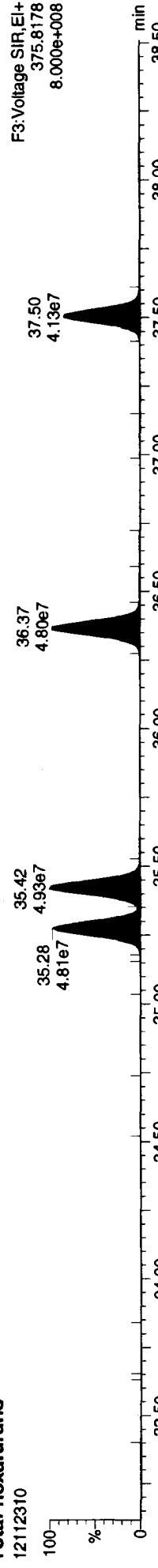
13C-234678-HxCDF



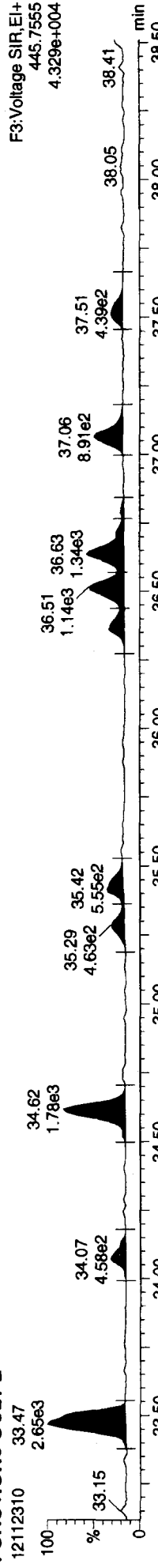
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

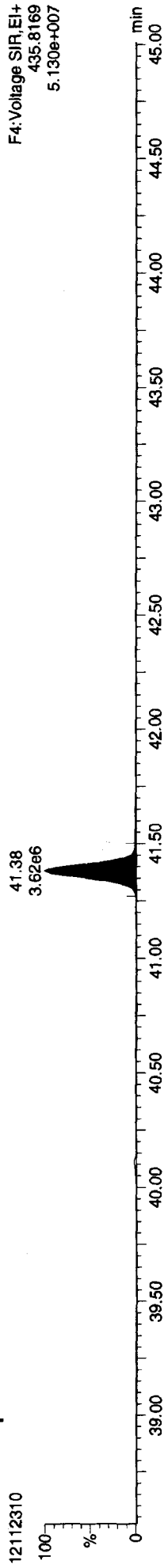


Quantify Sample Report MassLynx 4.1 SCN 714

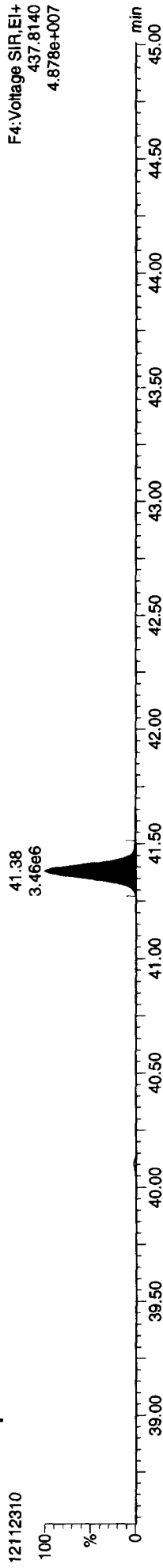
Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

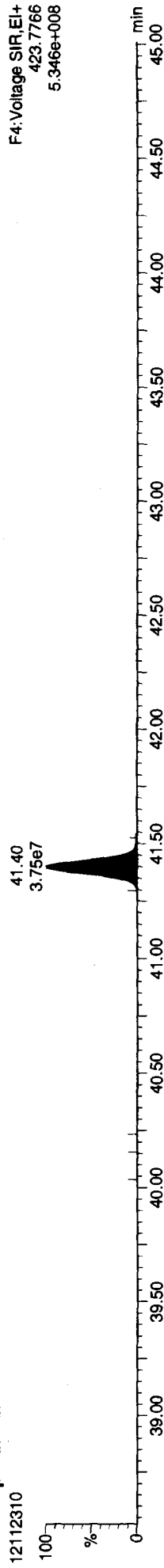
13C-1234678-HpCDD



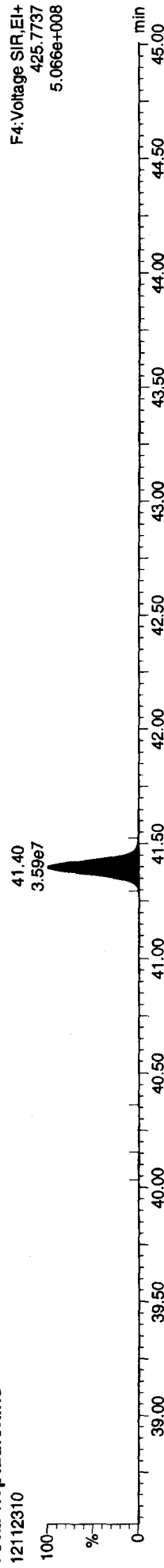
13C-1234678-HpCDD



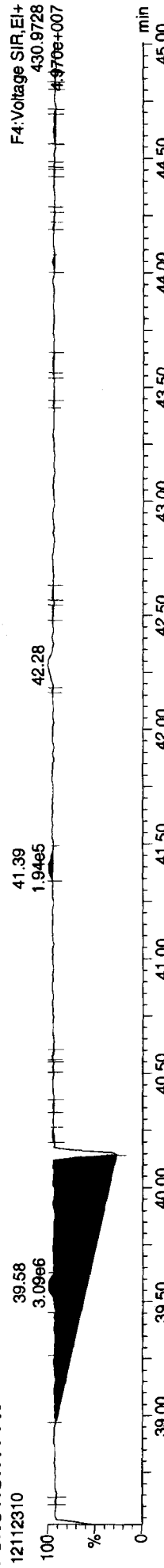
Total-heptadioxins



Total-heptadioxins



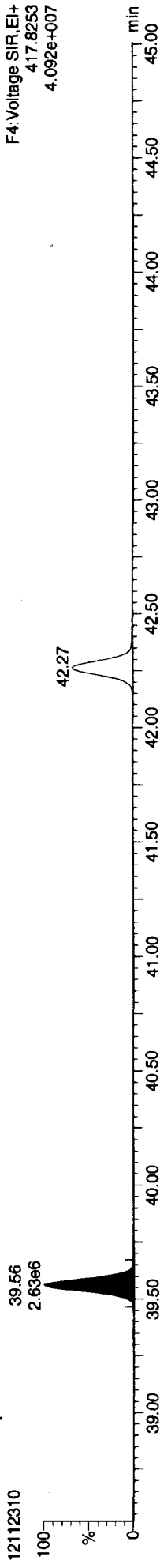
FUNCTION4 PFK



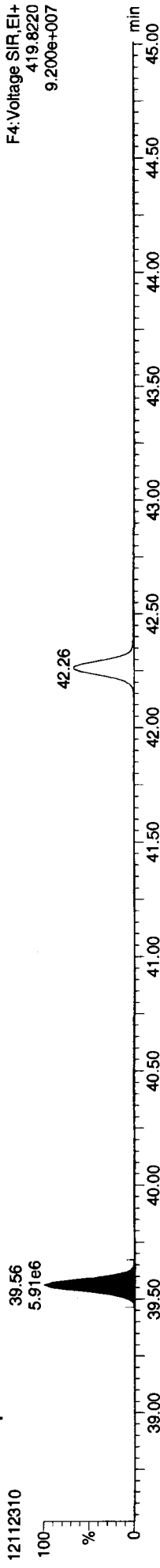
Dataset: P:\DIOXIN8290.PRO\12112310.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

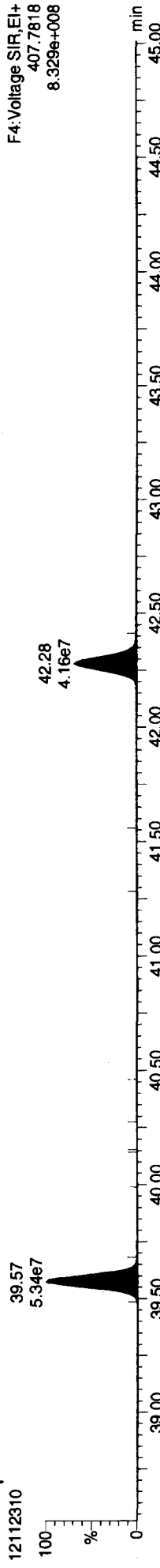
13C-1234678-HpCDF



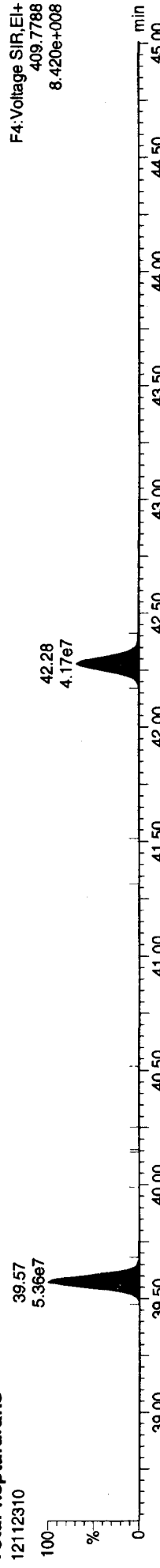
13C-1234678-HpCDF



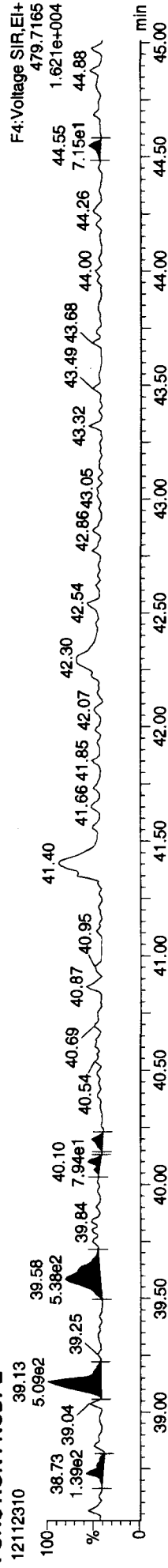
Total-heptafurans



Total-heptafurans



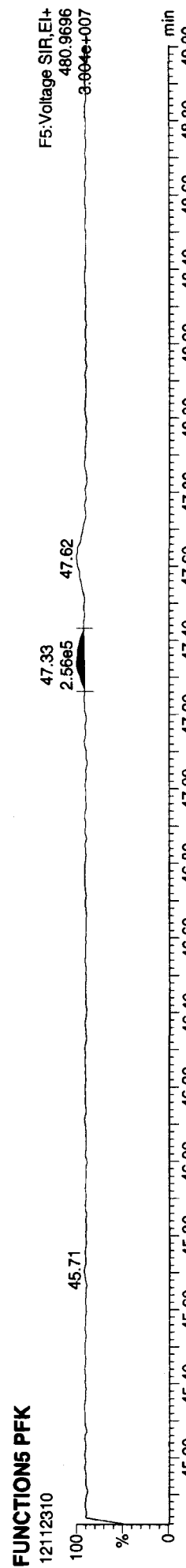
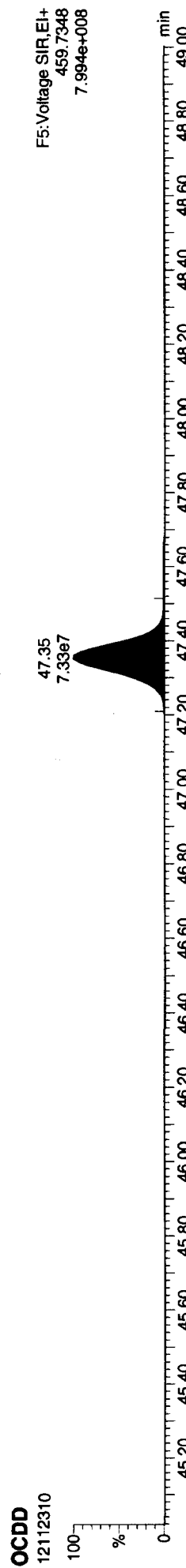
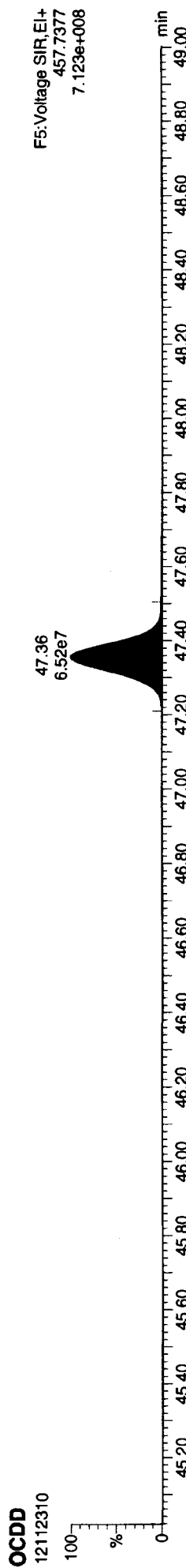
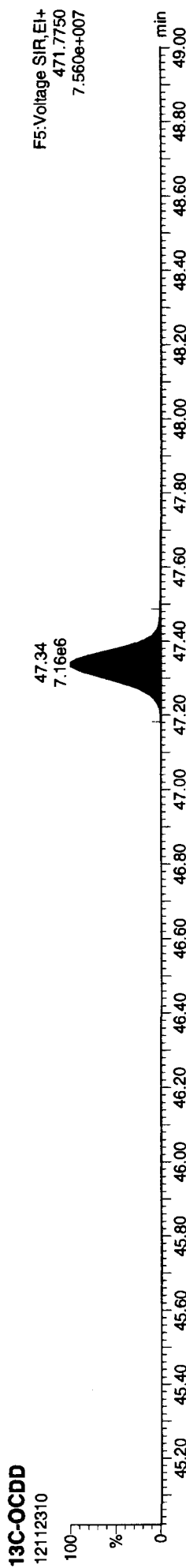
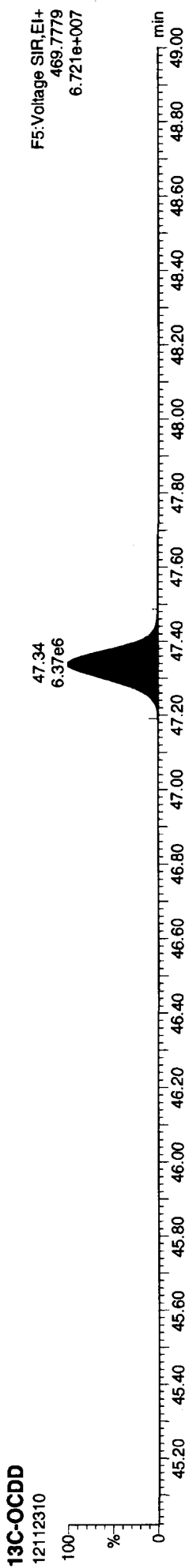
FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1211231C.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

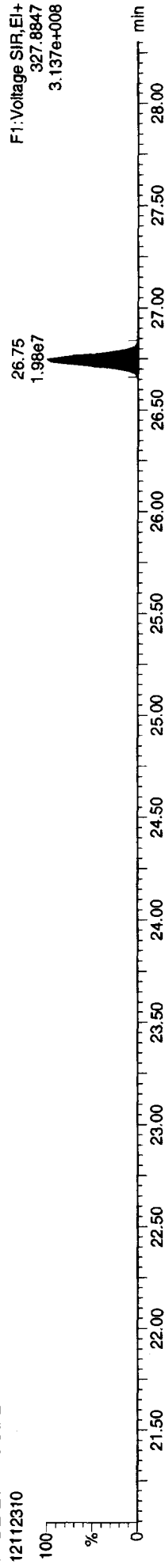
Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\12112310.qld
Last Altered: Monday, November 26, 2012 09:23:14 Pacific Standard Time
Printed: Monday, November 26, 2012 09:27:13 Pacific Standard Time

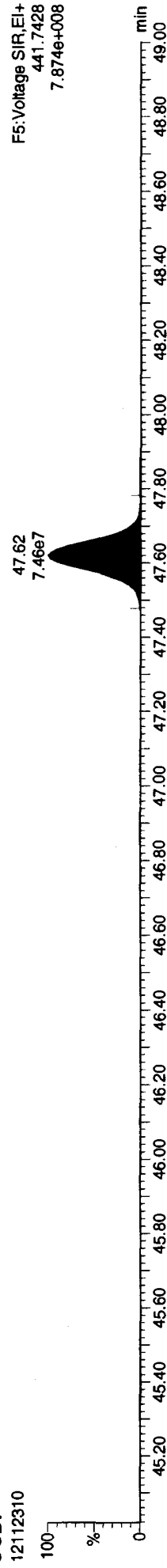
Name: 12112310, Date: 23-Nov-2012, Time: 18:30:06, ID: CS5, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD



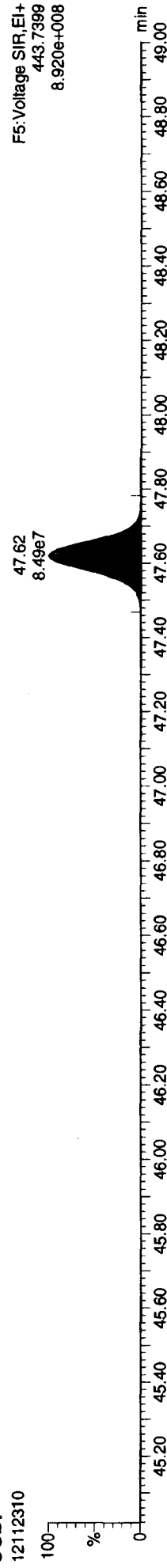
F1: Voltage SIR, EI+
327.8847
3.137e+008

OCDF



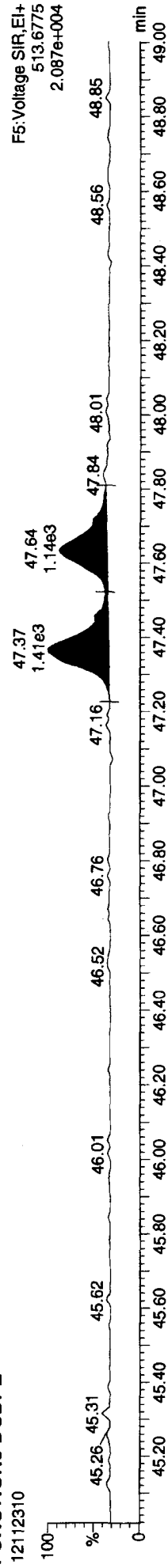
F5: Voltage SIR, EI+
441.7428
7.874e+008

OCDF



F5: Voltage SIR, EI+
443.7399
8.920e+008

FUNCTION5 DCDPE



F5: Voltage SIR, EI+
513.6775
2.087e+004

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123ICV.qld

Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time

Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.094	1.001	207939	281261	489200	bb	0.877	0.739	0.770	NO	884.0	10.621	10.621
12378-PeCDF	30.245	1.000	1253696	845668	2099364	bb	0.896	1.482	1.550	NO	6097.0	56.022	56.022
23478-PeCDF	31.594	1.001	1155540	777114	1932654	bb	0.926	1.487	1.550	NO	5490.8	50.929	50.929
123478-HxCDF	35.265	1.000	1054963	894228	1949191	bd	1.068	1.180	1.240	NO	4841.6	56.248	56.248
234678-HxCDF	36.362	1.000	982319	855205	1837524	bd	1.037	1.149	1.240	NO	4468.9	53.411	53.411
123678-HxCDF	35.419	1.001	1070624	908027	1978651	db	1.035	1.179	1.240	NO	4943.2	53.412	53.412
123789-HxCDF	37.502	1.001	825809	693835	1519645	bb	0.987	1.190	1.240	NO	3932.1	56.551	56.551
1234678-HpCDF	39.574	1.001	928652	951801	1880453	bb	1.232	0.976	1.050	NO	5288.2	53.729	53.729
1234789-HpCDF	42.281	1.001	692611	699692	1392303	bb	1.215	0.990	1.050	NO	3327.9	50.554	50.554
OCDF	47.604	1.006	1207597	1399554	2607151	bb	1.138	0.863	0.890	NO	4177.7	109.575	109.575
2378-TCDD	26.751	1.001	169622	224565	394187	bd	1.049	0.755	0.770	NO	1867.4	9.959	9.959
12378-PeCDD	31.846	1.000	834118	535002	1369120	bb	0.998	1.559	1.550	NO	5829.7	47.623	47.623
123478-HxCDD	36.504	1.000	768519	605429	1373948	bd	0.971	1.269	1.240	NO	5000.0	53.212	53.212
123678-HxCDD	36.636	1.001	729327	580223	1309550	db	0.918	1.257	1.240	NO	4617.3	55.701	55.701
123789-HxCDD	37.063	1.012	746620	607312	1353932	bb	0.932	1.229	1.240	NO	4597.5	55.634	55.634
1234678-HpCDD	41.393	1.000	664113	633547	1297660	bb	1.017	1.048	1.050	NO	5937.7	50.353	50.353
OCDD	47.334	1.000	1074224	1208372	2282596	bb	1.008	0.889	0.890	NO	5180.2	108.226	108.226
13C-2378-TCDF	26.079	1.006	2311740	2942616	5254356	bb	1.473	0.786	0.770	NO	6975.9	79.080	79.080
13C-12378-PeCDF	30.234	1.167	2554025	1627498	4181523	bb	1.148	1.569	1.550	NO	13108.9	80.737	80.737
13C-23478-PeCDF	31.572	1.218	2508271	1589203	4097474	bb	1.113	1.578	1.550	NO	13200.7	81.612	81.612
13C-123478-HxCDF	35.255	0.952	1115934	2128181	3244114	bd	1.209	0.524	0.510	NO	5212.9	98.672	98.672
13C-123678-HxCDF	35.397	0.956	1239806	2340884	3580689	db	1.269	0.530	0.510	NO	5709.4	103.790	103.790
13C-234678-HxCDF	36.351	0.981	1136315	2182102	3318418	bb	1.236	0.521	0.510	NO	5125.7	98.742	98.742
13C-123789-HxCDF	37.480	1.012	935592	1788002	2723594	bb	1.107	0.523	0.510	NO	4360.0	90.496	90.496
13C-1234678-HpCDF	39.552	1.068	874833	1966221	2841055	bb	1.051	0.445	0.440	NO	5391.3	99.391	99.391
13C-1234789-HpCDF	42.259	1.141	691764	1574907	2266671	bb	0.815	0.439	0.440	NO	3726.6	102.309	102.309
13C-1234-TCDD	25.914	0.000	1990450	2321577	4512026	bb	1.000	0.789	0.770	NO	5823.8	100.000	100.000
13C-2378-TCDD	26.721	1.031	1640150	2132310	3772460	bb	0.946	0.789	0.770	NO	4681.6	88.407	88.407
13C-12378-PeCDD	31.834	1.228	1768744	1111779	2880523	bb	0.721	1.591	1.550	NO	11548.2	88.585	88.585
13C-123478-HxCDD	36.493	0.965	1489072	1170617	2659689	bd	0.991	1.272	1.240	NO	6814.7	98.706	98.706
13C-123678-HxCDD	36.614	0.988	1427519	1133204	2560722	db	1.025	1.260	1.240	NO	6557.0	91.896	91.896
13C-1234678-HpCDD	41.382	1.117	1315164	1219160	2534323	bb	0.866	1.079	1.050	NO	7546.6	107.594	107.594
13C-OCDD	47.317	1.277	1968421	2214682	4183103	bd	0.769	0.889	0.890	NO	8836.8	199.998	199.998

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121123\ICV.qld

Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time

Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

	1518692	2719432	bb	1.000	1.265	1.240	NO	6813.4	10.858	100.000
13C-123789-HxCDD	37.041	0.000								10.812
Total-tetrafurans	211548			0.877						
Total-penta1	0									
Total-pentafurans	2428983			0.911					108.256	107.819
Total-hexafurans	3933715			1.032					219.806	219.623
Total-heptafurans	1625532			1.223					104.627	104.550
Total-Furans	9407375			1.041					553.122	552.379
Total-tetraioxins	170621			1.049					10.045	10.020
Total-pentadioxins	834787			0.998					47.731	47.663
Total-hexadioxins	2244466			0.940					164.610	164.547
Total-heptadioxins	668464			1.017					50.682	50.682
Total-Dioxins	4992562			0.985					381.293	381.137
Total-TEQ	14399937								934.415	933.517
37CL-2378-TCDD	26.751	1.032	404180	1.044				2215.6		8.584
FUNCTION1 PFK	79884198									
FUNCTION2 PFK	90653									0.000
FUNCTION3 PFK	672627									0.000
FUNCTION4 PFK	0									
FUNCTION5 PFK	763152									
FUNCTION1 HXCDPE	866									0.000
FUNCTION1 HPCDPE	8392									0.000
FUNCTION2 HPCDPE	874									0.000
FUNCTION3 OCDPE	347									0.000
FUNCTION4 NCDPE	189									0.000
FUNCTION5 DCDPE	0									0.000

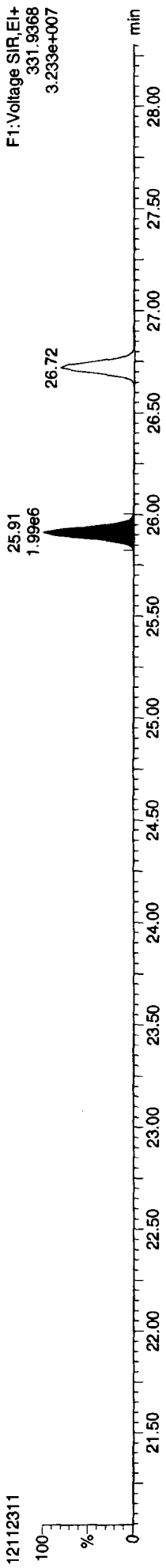
Quantify Sample Report MassLynx 4.1 SCN 714

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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

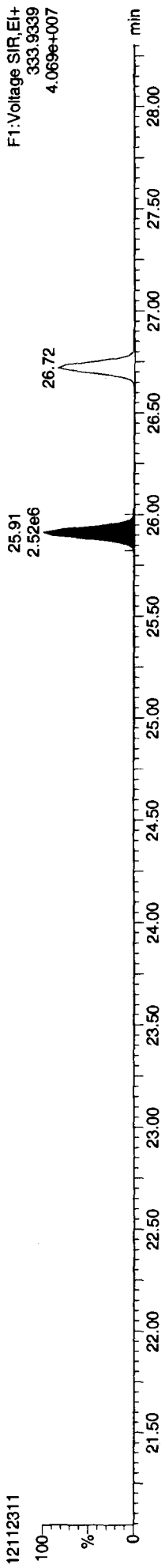
Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

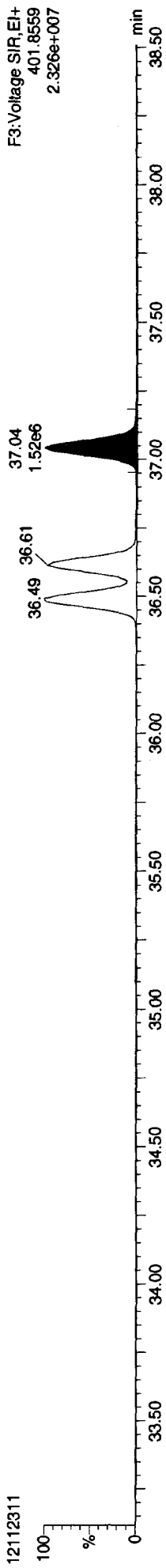
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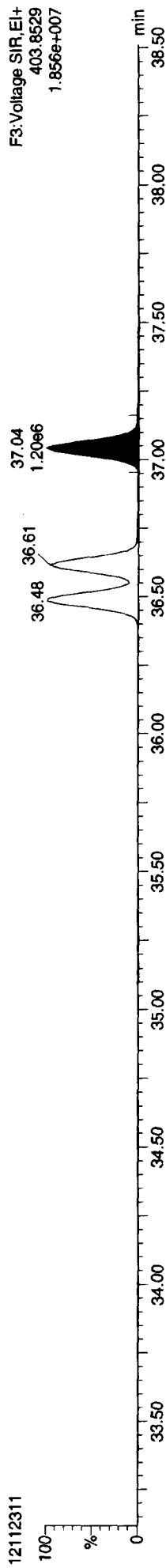
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13C-123789-HxCDD



13C-123789-HxCDD

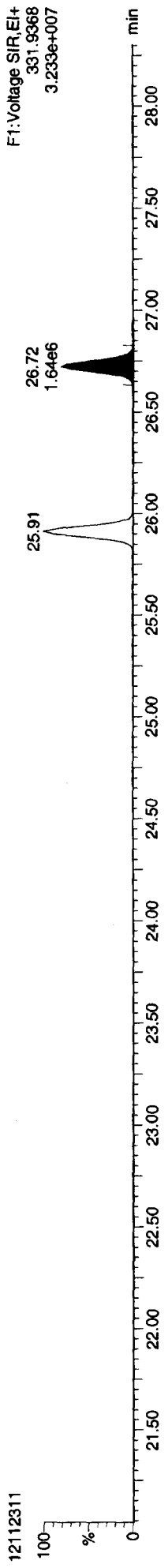


Quantify Sample Report MassLynx 4.1 SCN 714

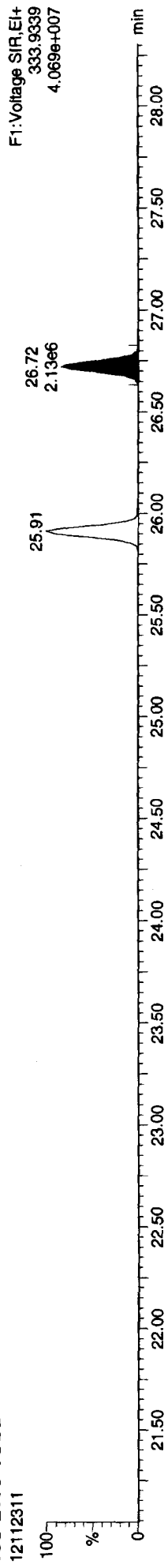
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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

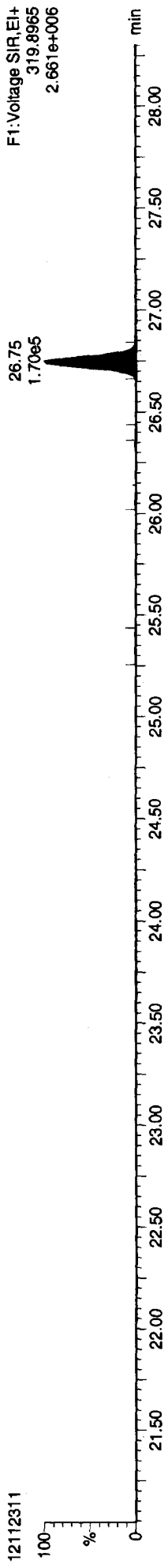
13C-2378-TCDD



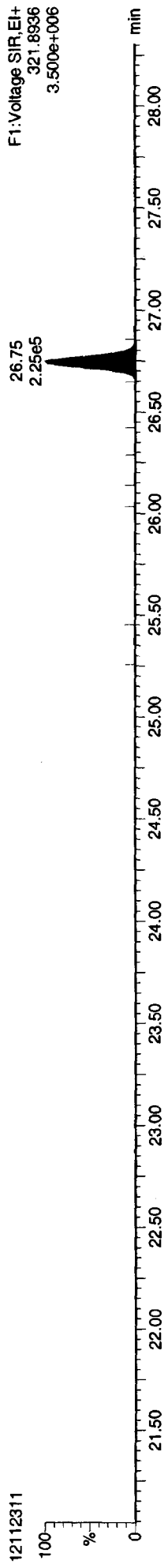
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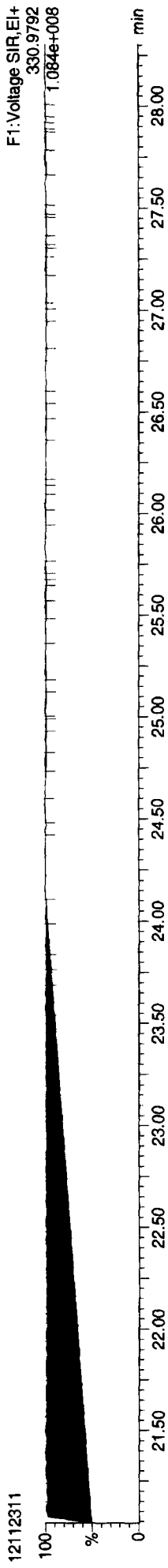
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

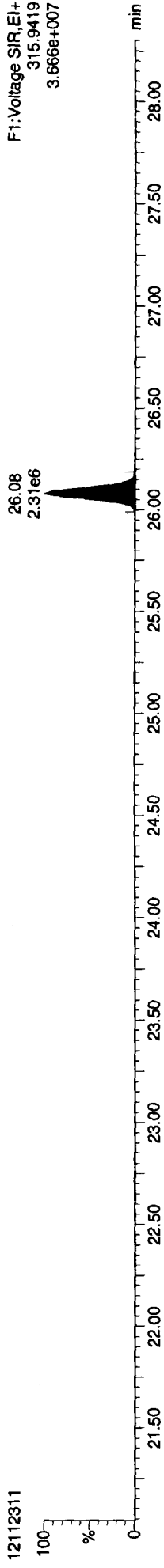


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PROV121123\ICV.qld
Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

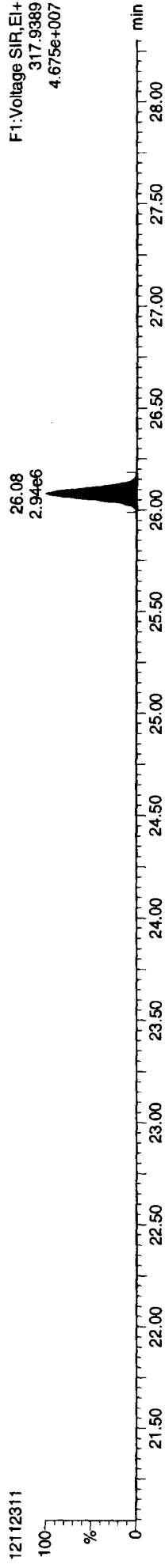
Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



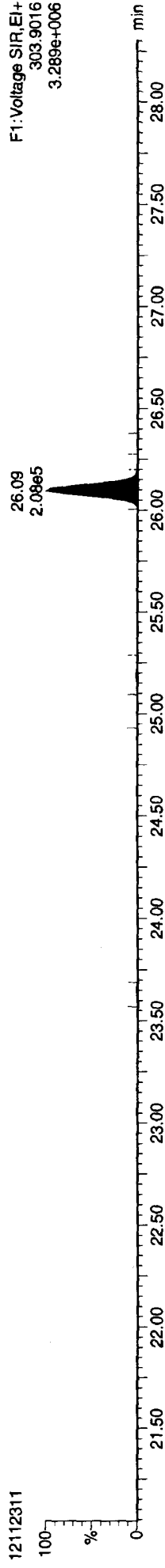
F1: Voltage SIR, EI+
315.9419
3.666e+007

13C-2378-TCDF



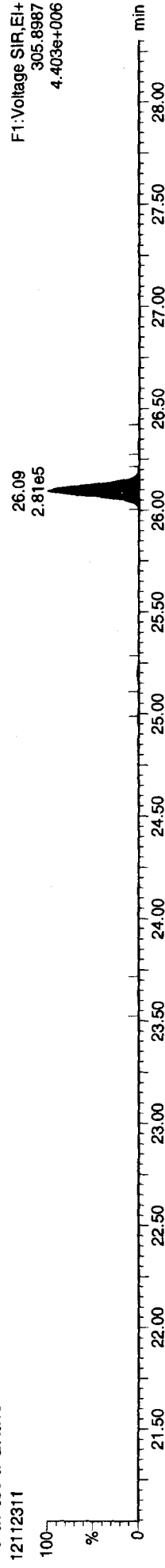
F1: Voltage SIR, EI+
317.9389
4.675e+007

Total-tetrafurans



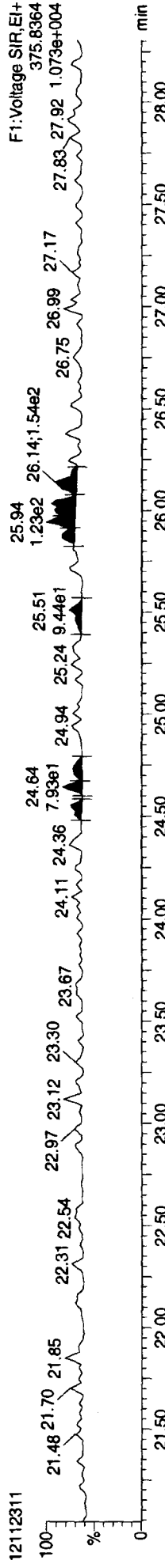
F1: Voltage SIR, EI+
303.9016
3.289e+006

Total-tetrafurans



F1: Voltage SIR, EI+
305.8987
4.403e+006

FUNCTION1 HXCDFE



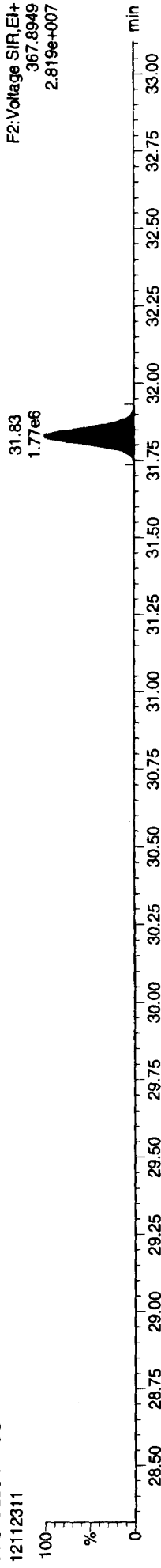
F1: Voltage SIR, EI+
375.8364
1.073e+004

Quantify Sample Report MassLynx 4.1 SCN 714

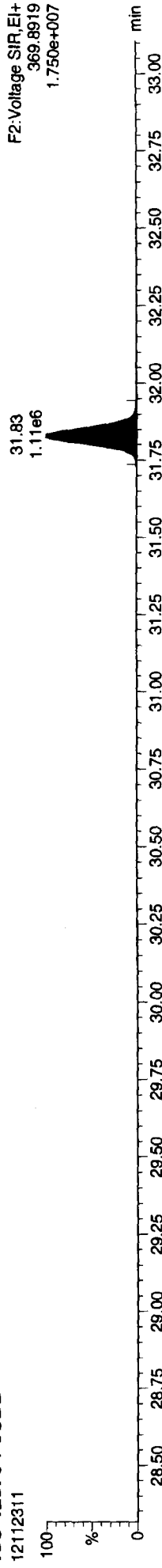
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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

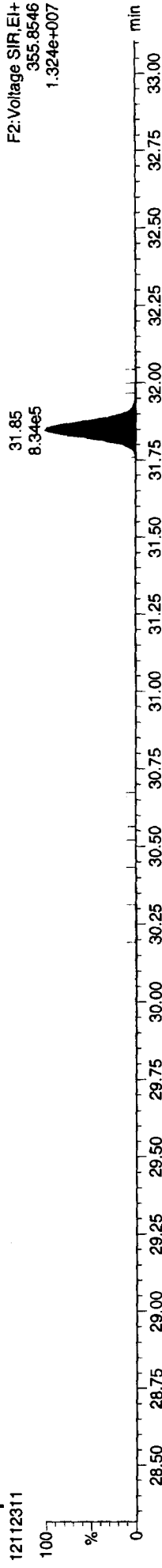
13C-12378-PeCDD



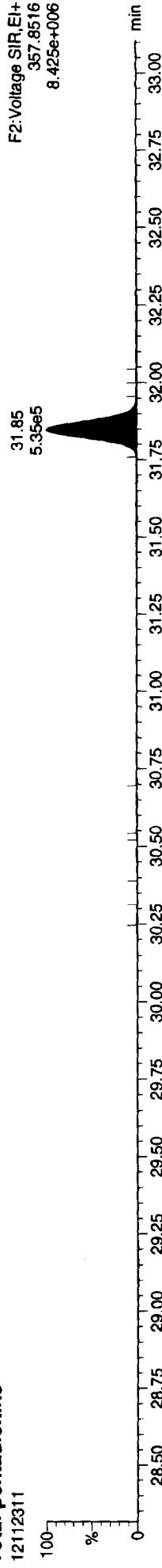
13C-12378-PeCDD



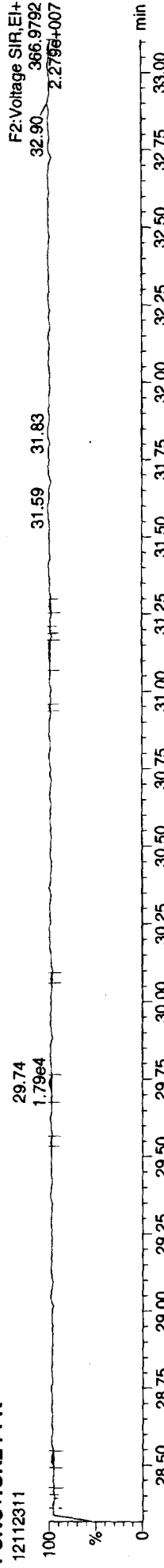
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

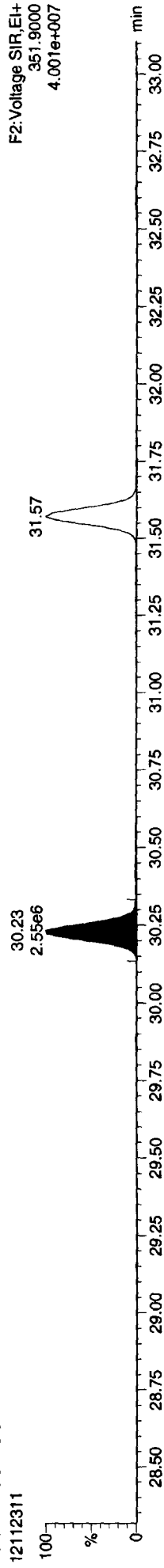


Quantify Sample Report MassLynx 4.1 SCN 714

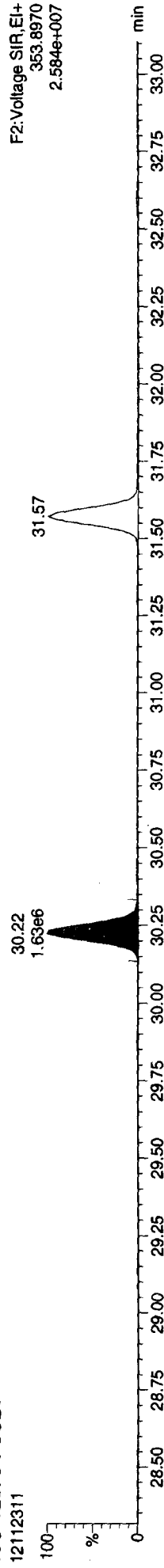
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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

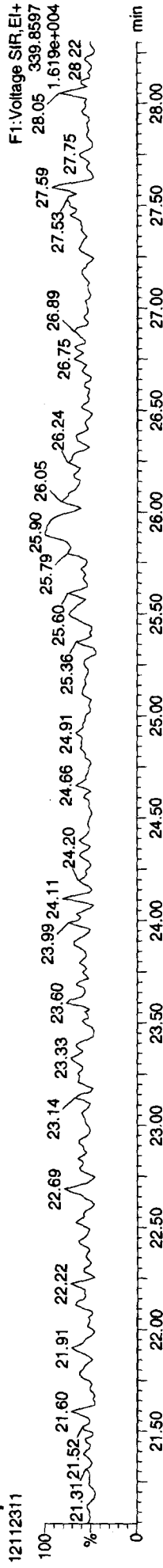
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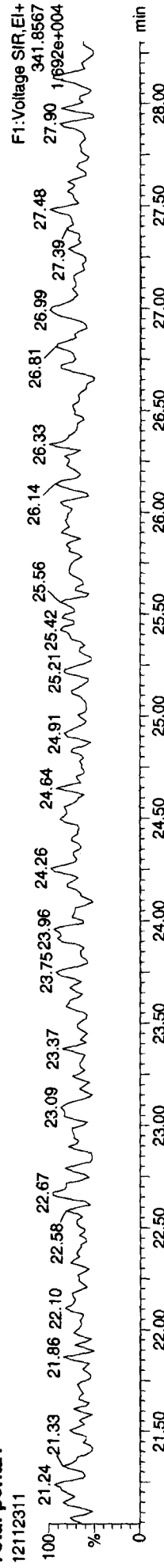
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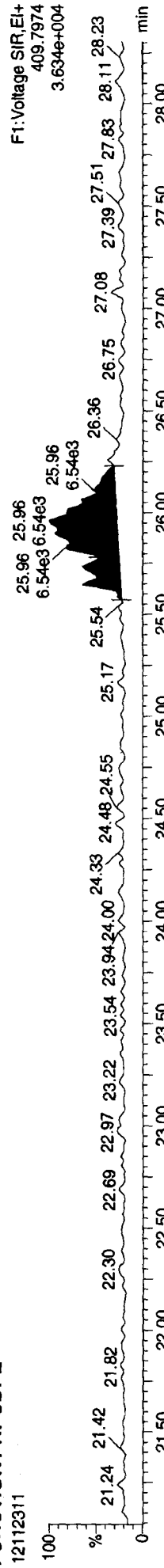
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

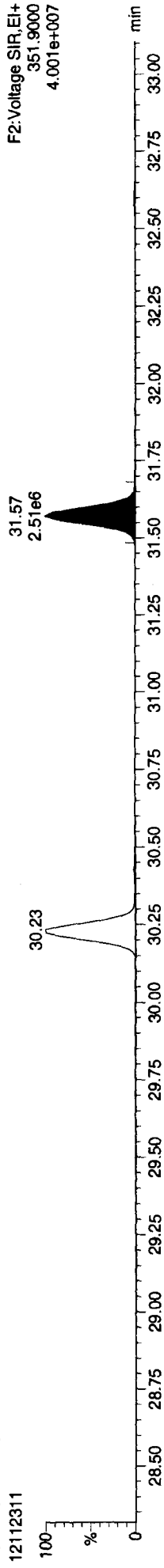


Quantity Sample Report MassLynx 4.1 SCN 714

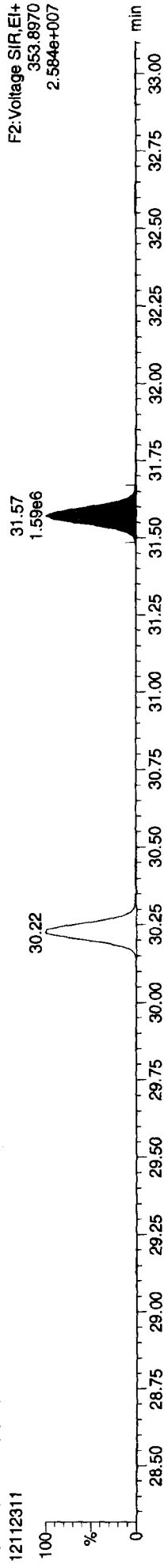
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Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

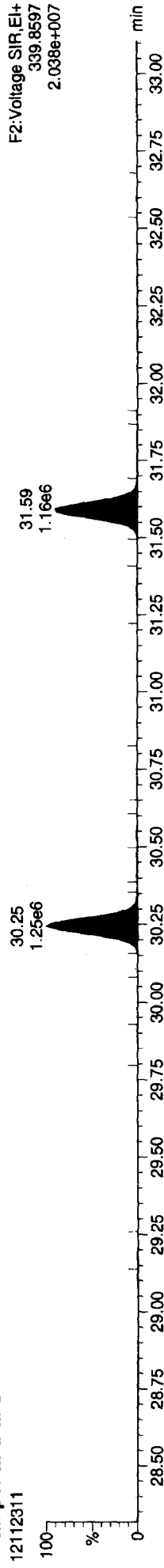
13C-23478-PeCDF



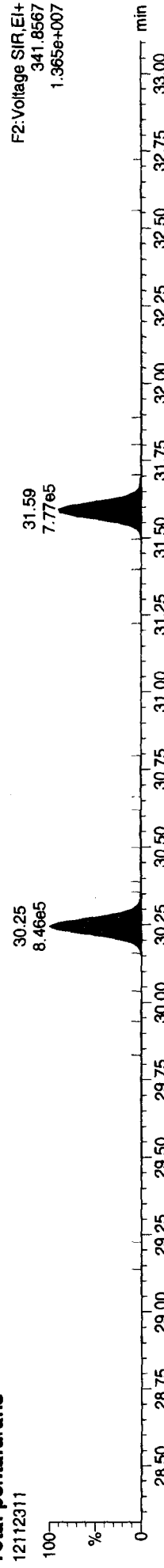
13C-23478-PeCDF



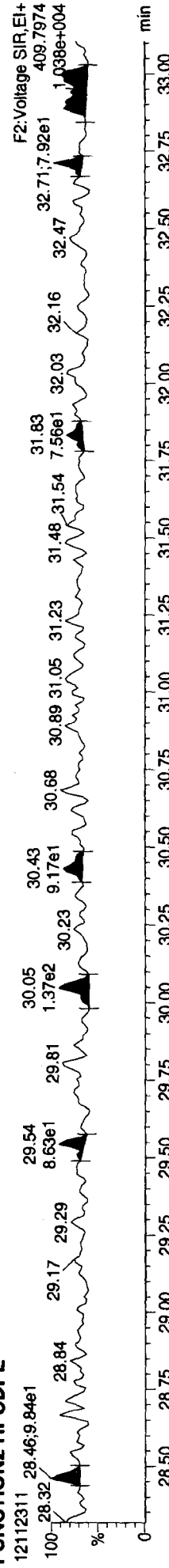
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

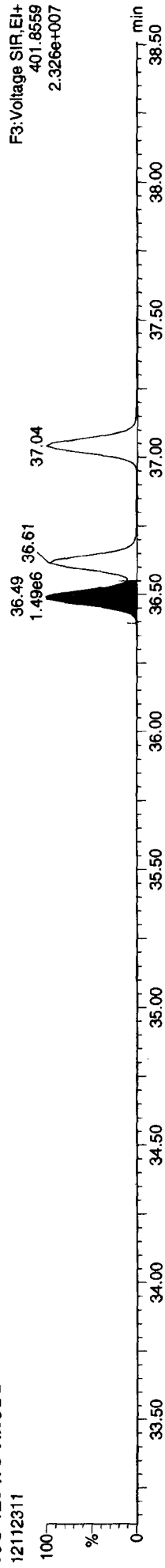


Quantify Sample Report MassLynx 4.1 SCN 714

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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

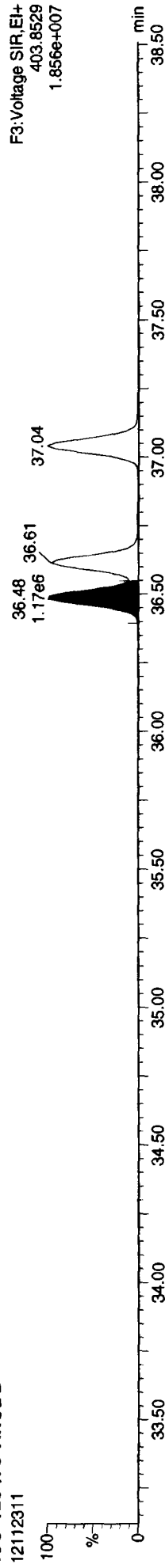
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13C-123478-HxCDD



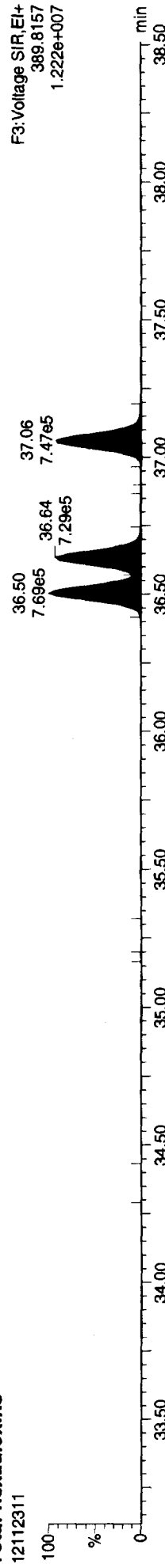
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401.8559
2.326e+007

13C-123478-HxCDD



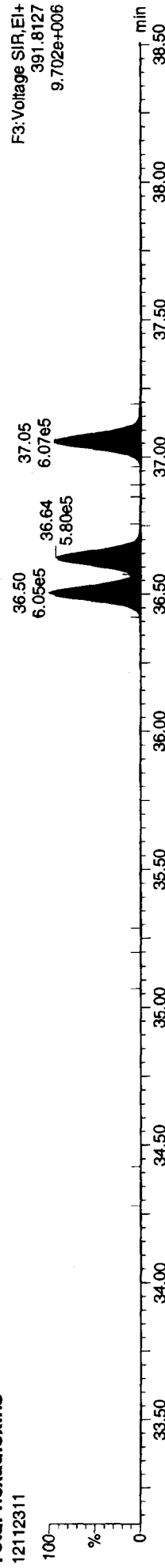
F3: Voltage SIR, EI+
403.8529
1.856e+007

Total-hexadioxins



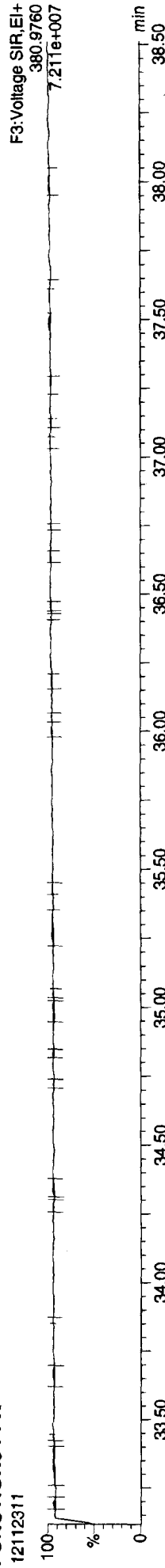
F3: Voltage SIR, EI+
389.8157
1.222e+007

Total-hexadioxins



F3: Voltage SIR, EI+
391.8127
9.702e+006

FUNCTION3 PFK



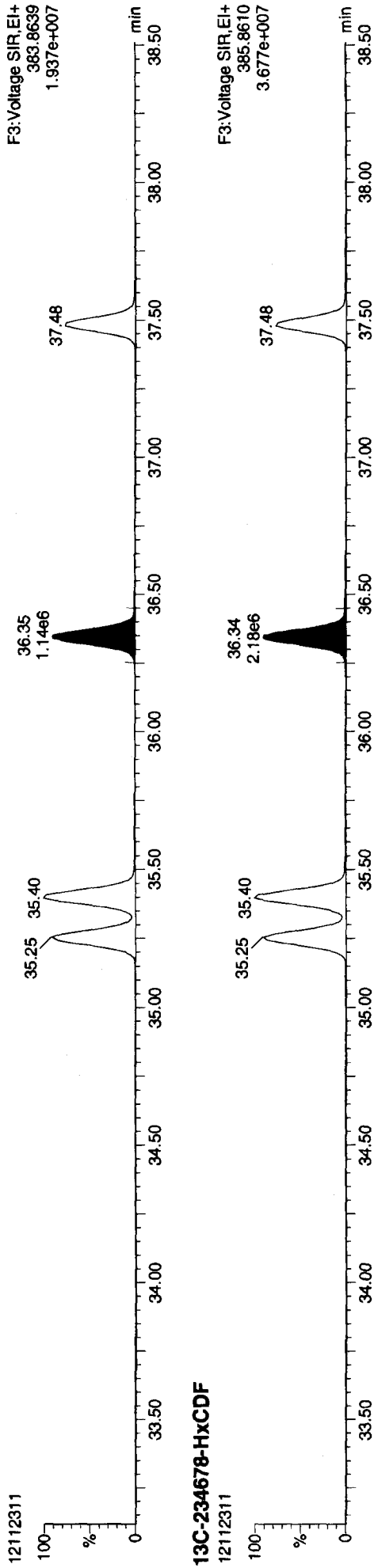
F3: Voltage SIR, EI+
380.9760
7.211e+007

Quantify Sample Report MassLynx 4.1 SCN 714

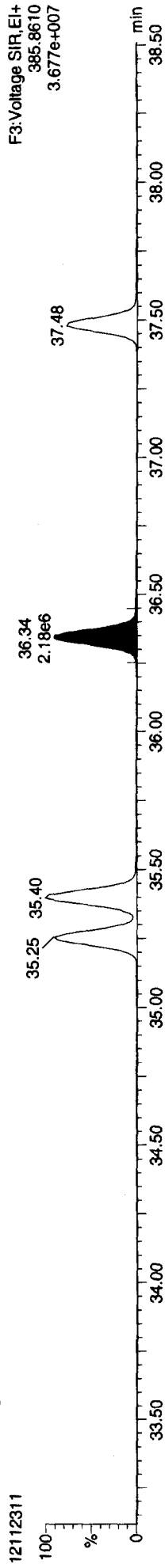
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Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

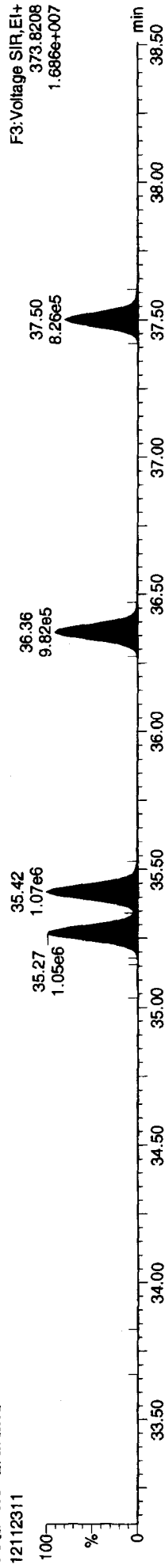
13C-234678-HxCDF



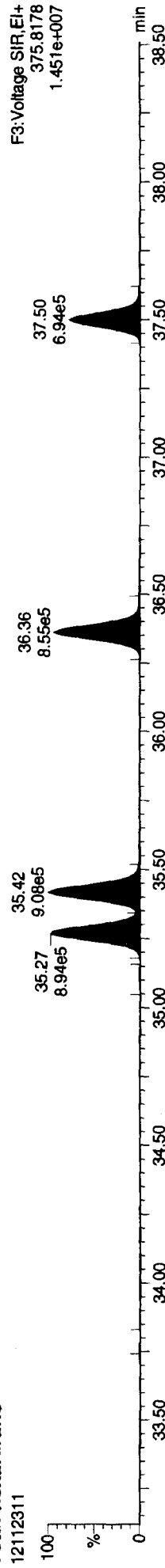
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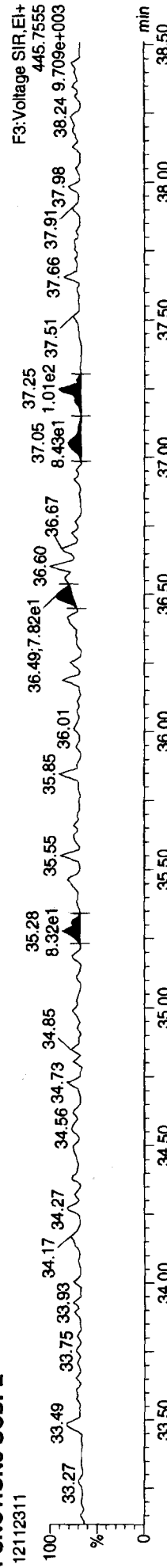
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE

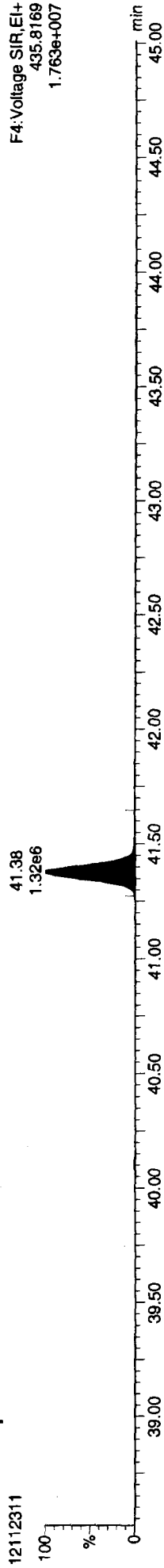


Quantify Sample Report MassLynx 4.1 SCN 714

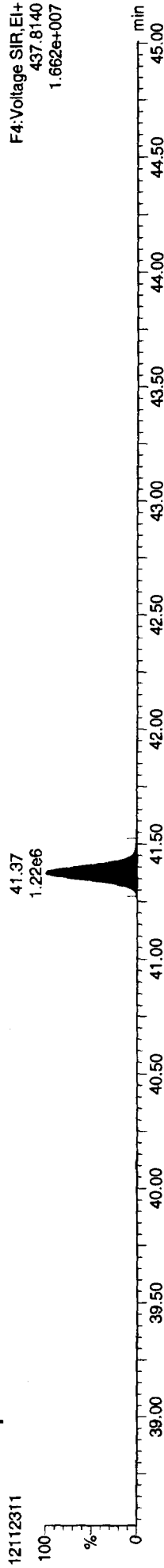
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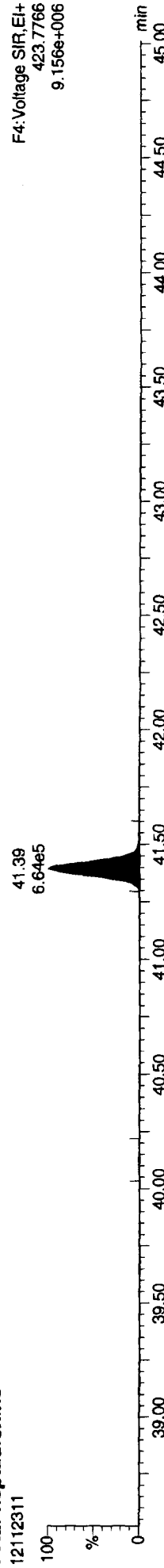
13C-1234678-HpCDD



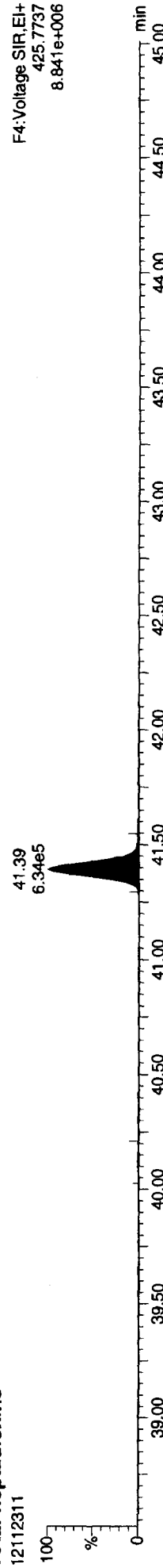
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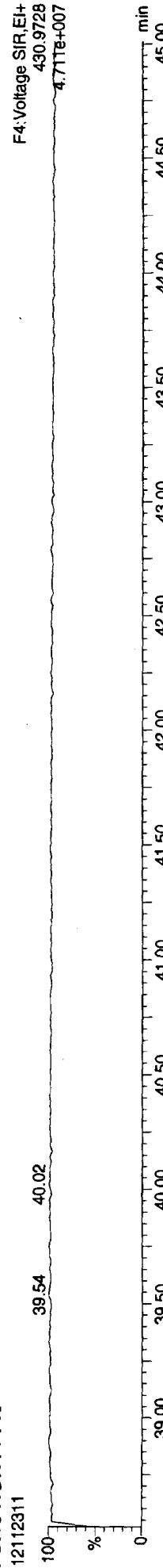
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

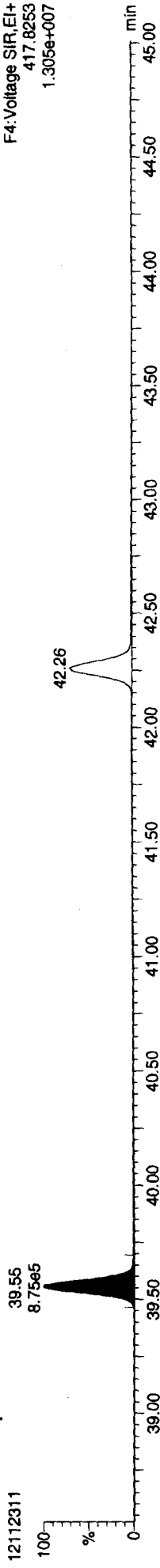


Quantify Sample Report MassLynx 4.1 SCN 714

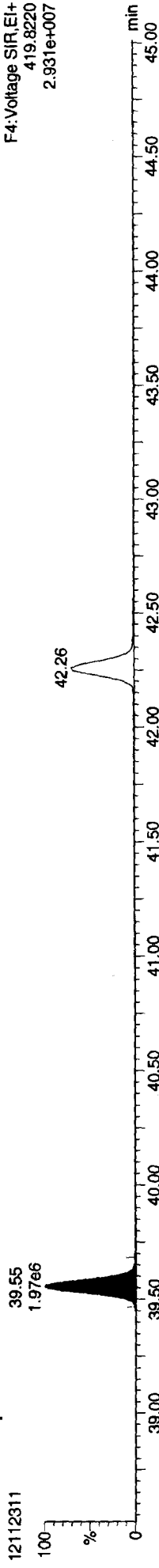
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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
Printed: Monday, November 26, 2012 09:55:55 Pacific Standard Time

Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

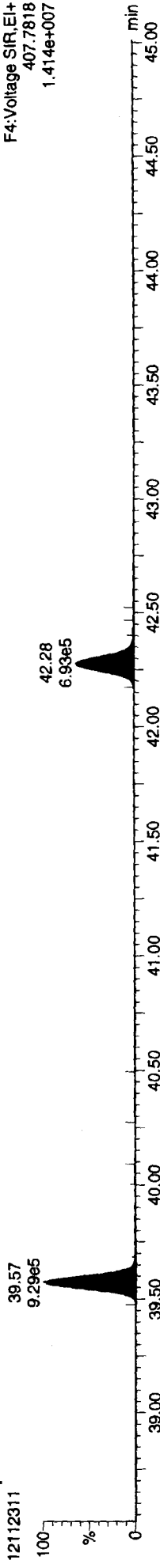
13C-1234678-HpCDF



13C-1234678-HpCDF



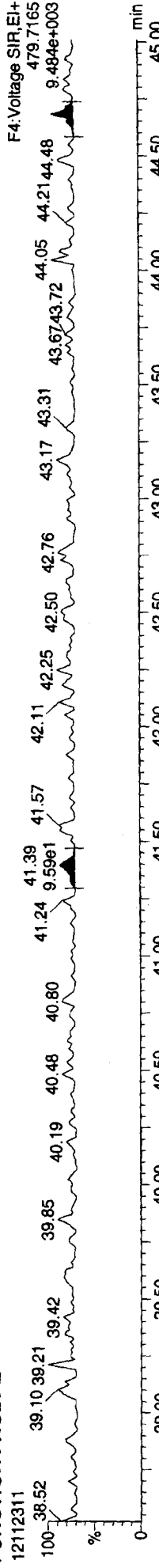
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



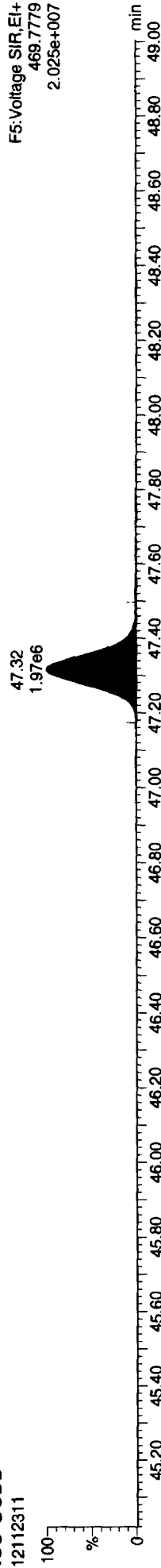
Quantify Sample Report MassLynx 4.1 SCN 714

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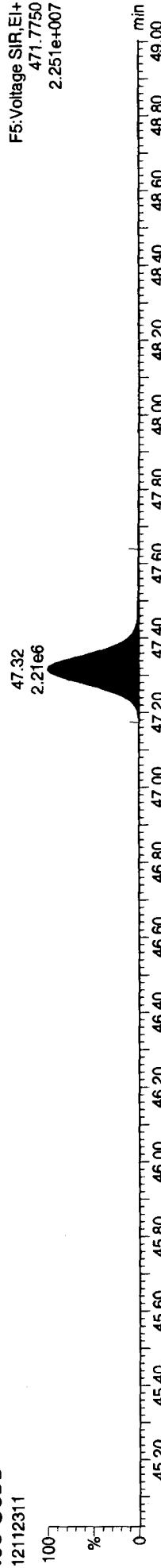
13C-OCDD

12112311



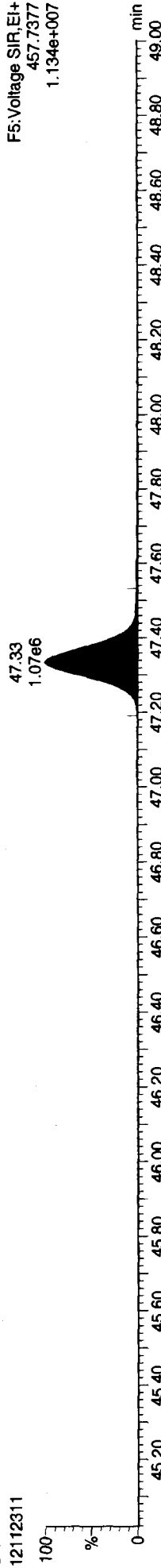
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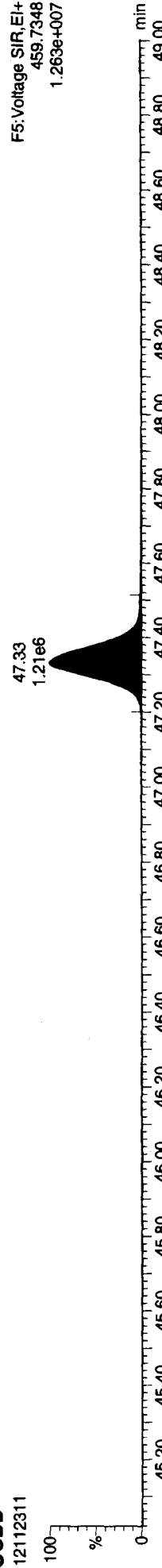
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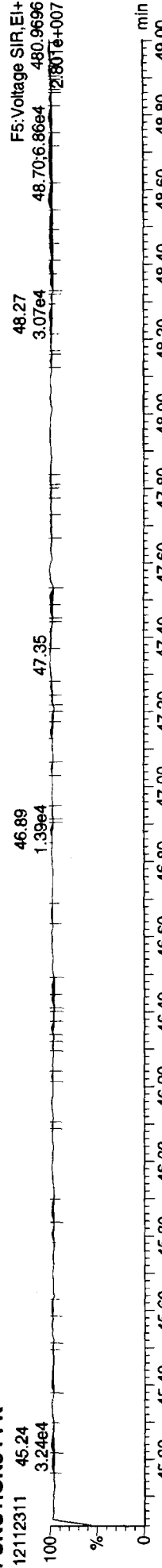
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12112311



FUNCTION5 PFK

12112311

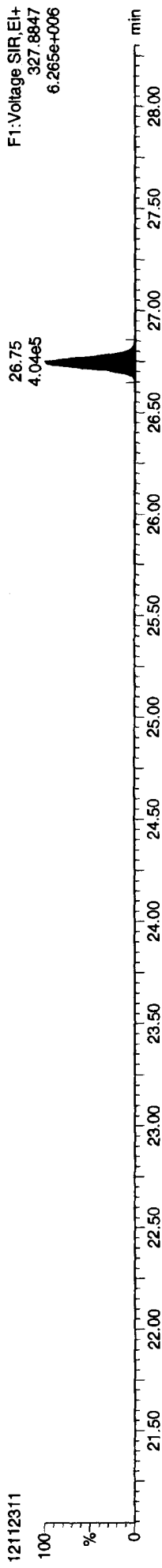


Quantify Sample Report

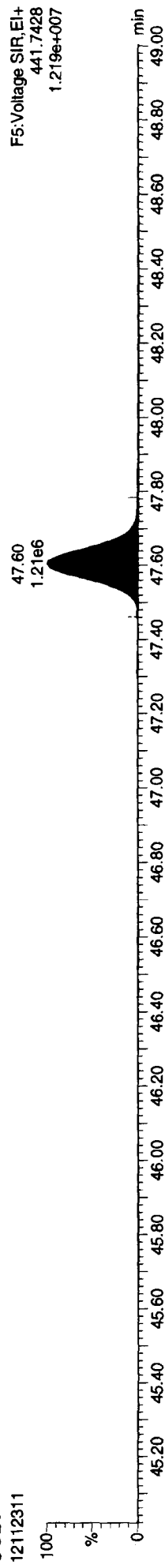
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Last Altered: Monday, November 26, 2012 09:36:55 Pacific Standard Time
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Name: 12112311, Date: 23-Nov-2012, Time: 19:22:21, ID: ICV, Conditions: AUTOSPEC01, User: pk

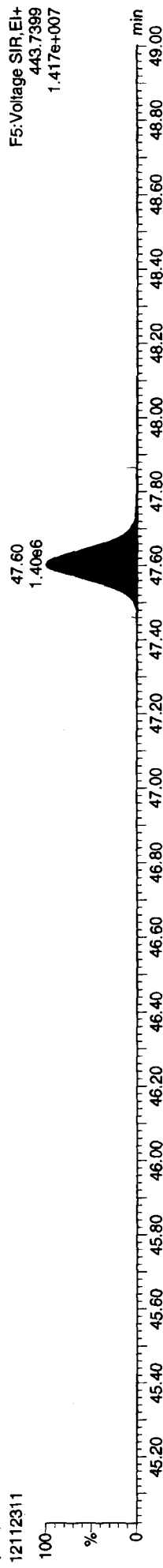
37CL-2378-TCDD



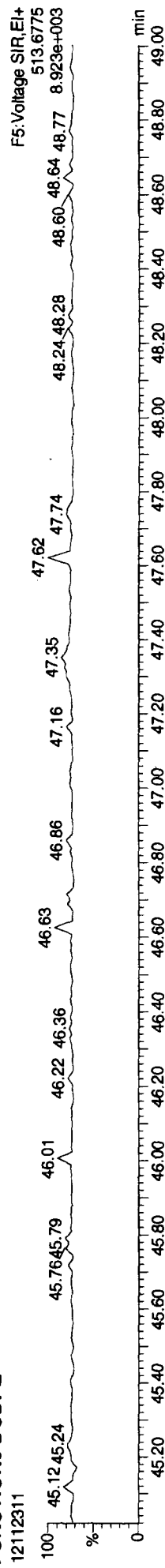
OCDF



OCDF



FUNCTION5 DCDPE



Dioxin Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: VR82



HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: VR58, VR82 Client ID: Anchor

ARI SOP: **806S** (Dioxins)

Parameter(s): He B

Instrument: **AutoSpec01**

Curve Date: 11/23/12 Analysis Start Date: 11/28/12

- | | | | |
|-------------------------------------|--|----------------------------------|---|
| Internal Standard Meets Criteria? | <input checked="" type="radio"/> YES / NO | Method Blank in Control? | <input checked="" type="radio"/> YES / NO |
| Extraction Std Recovery in Control? | <input checked="" type="radio"/> YES / NO | IPR / OPR Recovery in Control? | <input checked="" type="radio"/> YES / NO |
| Cal acceptable? | <input checked="" type="radio"/> YES / NO | CCal acceptable? | <input checked="" type="radio"/> YES / NO |
| Manual Integrations for ICal? | <input checked="" type="radio"/> YES / NO | Manual Integrations for Samples? | <input checked="" type="radio"/> Yes / NO |
| Special Analysis Criteria Met? | YES / NO / <input checked="" type="radio"/> NA | | |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

ok.

Additional Details on Reverse: Yes / No

Analyst: *Phyllis* Date: 12/10/12

Reviewer: *MW* Date: 12/11

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.: GC=CN10921030, MS=P764

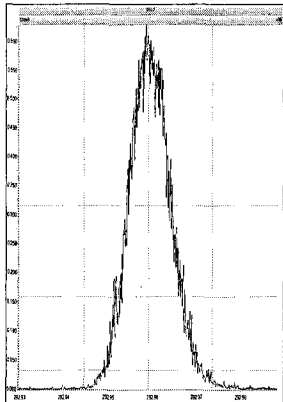
Date: 11/28/12 Analysis: Dioxin Analyst: ph
 GC Program: 82910C Column No: 1081305 Column Type: VR5810x2
 Inj Vol: 1ul Instrument Tune (IPR): 10132903 Detector Voltage: 350
 Resolution Check Files: _____ Curve Date: 11/28/12

IS/SS	Ical/Ccal	LCS/ICV
<u>17908</u>	<u>17214</u>	
	<u>19172</u>	

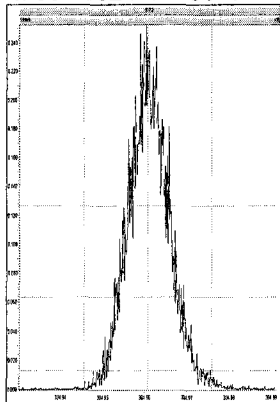
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1	28-Nov-12	10:02:21	12112802	CS3	25.9	25.9	4074927	
2	28-Nov-12	10:52:39	12112803	ISC01	25.9			
3	28-Nov-12	12:05:16	12112804	VR58MBS	25.9	25.9	2951985	
4	28-Nov-12	12:58:56	12112805	VR58OPR	25.9	25.9	3855197	
5	28-Nov-12	13:49:08	12112806	VR58SRM	25.9	25.9	3811036	
6	28-Nov-12	15:06:14	12112807	VR58A	25.9	25.9	3638475	
7	28-Nov-12	15:56:33	12112808	VR58B	25.9	25.9	4629988	
8	28-Nov-12	16:48:47	12112809	VR58C	25.9	25.9	3793507	
9	28-Nov-12	17:41:07	12112810	VR58D	25.9	25.9	4651273	
10	28-Nov-12	18:33:14	12112811	CS3	25.9	25.9	4882381	
11	28-Nov-12	19:33:45	12112812	VR58E	25.9	25.9	4189453	
12	28-Nov-12	20:29:18	12112813	VR58F	25.9	25.9	4627790	
13	28-Nov-12	21:21:25	12112814	VR58G	25.9	25.9	4242642	
14	28-Nov-12	22:13:45	12112815	VR58H	25.9	25.9	3774545	
15	28-Nov-12	23:06:00	12112816	VR58I	25.9	25.9	3924639	
16	28-Nov-12	23:58:20	12112817	VR58J	25.9	25.9	3767517	
17	29-Nov-12	00:50:28	12112818	VR82A	25.9	25.9	4417832	
18	29-Nov-12	01:43:02	12112819	VR82B	25.9	25.9	4717986	
19	29-Nov-12	02:35:10	12112820	CS3	25.9	25.9	4467924	
20	29-Nov-12	03:35:35	12112821	VR82C	25.9	25.9	3851846	
21	29-Nov-12	04:31:08	12112822	VR82CDUP	25.9	25.9	3651242	
22	29-Nov-12	05:23:23	12112823	VR82D	25.9	25.9	4088772	
23	29-Nov-12	06:15:42	12112824	VR82E	25.9	25.9	3625697	
24	29-Nov-12	07:07:57	12112825	VR82F	25.9	25.9	3865681	
25	29-Nov-12	08:00:18	12112826	VR82G	25.9	25.9	3837460	
26	29-Nov-12	08:52:31	12112827	VR82H	25.9	25.9	3989566	
27	29-Nov-12	09:44:52	12112828	VR82I	25.9	25.9	4152420	
28	29-Nov-12	10:37:05	12112829	CS3	25.9	25.9	4107160	
29	29-Nov-12	12:00:42	12112830	VR58B 5X	25.9	25.9	3505635	
30	29-Nov-12	12:51:00	12112831	VR58C 5X	25.9	25.9	3565056	
31	29-Nov-12	13:43:29	12112832	VR58D 5X	25.9	25.9	4059088	
32	29-Nov-12	14:35:41	12112833	VR82A 5X	25.9	25.9	3733411	
33	29-Nov-12	15:27:56	12112834	VR82B 5X	25.9	25.9	3675051	
34	29-Nov-12	16:20:15	12112835	CS3	25.9	25.9	4337830	

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

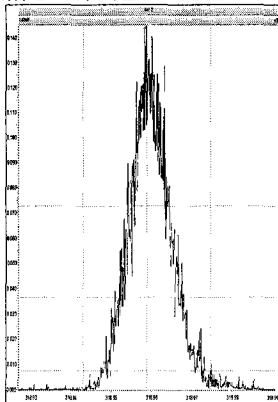
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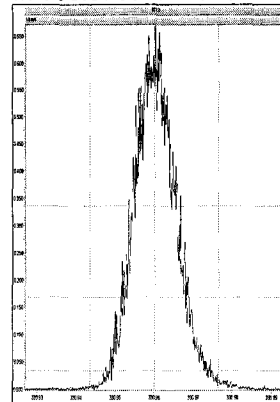
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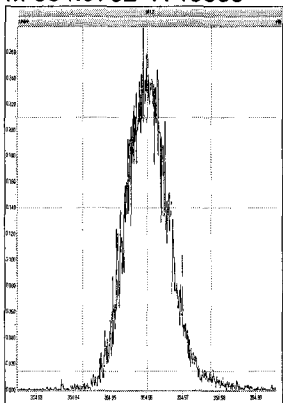
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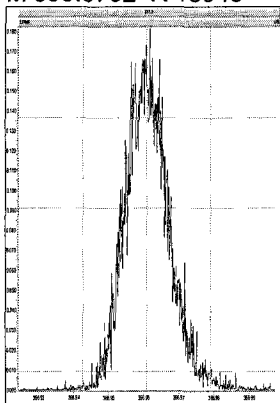
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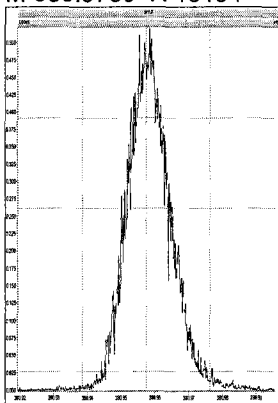
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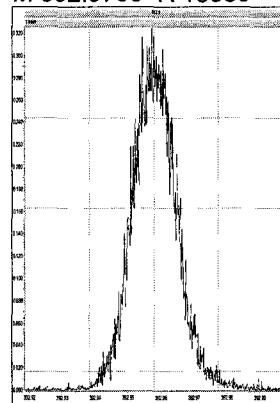
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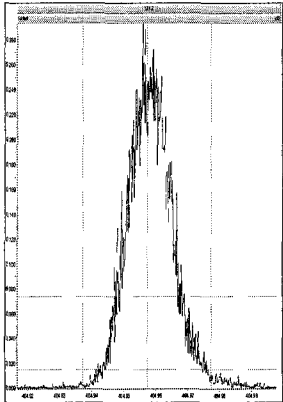
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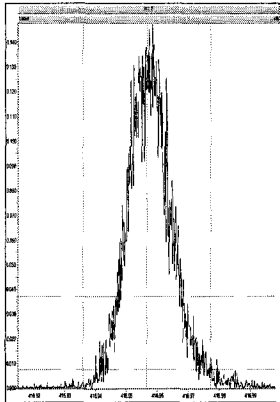
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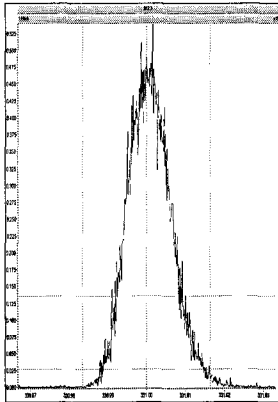
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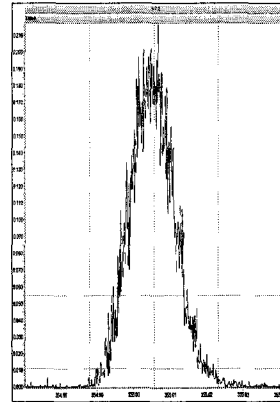
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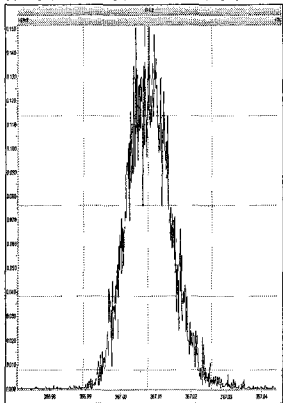
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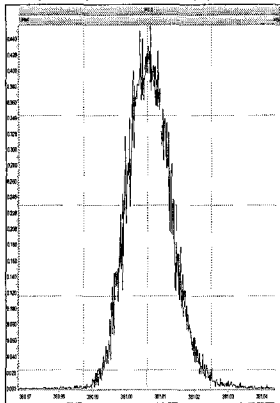
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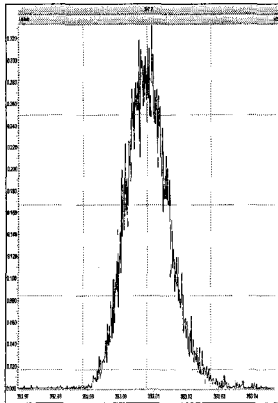
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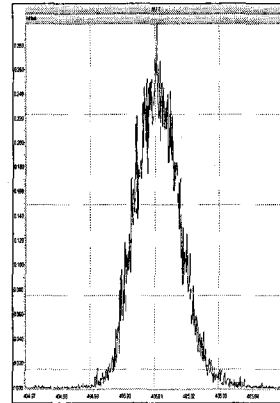
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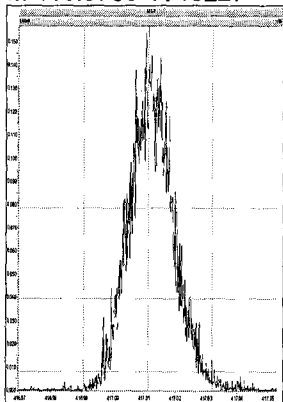
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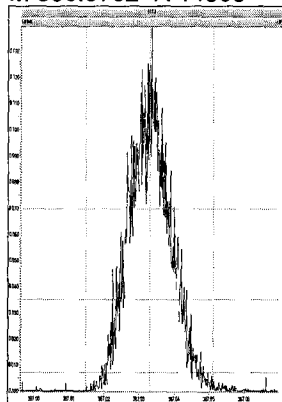
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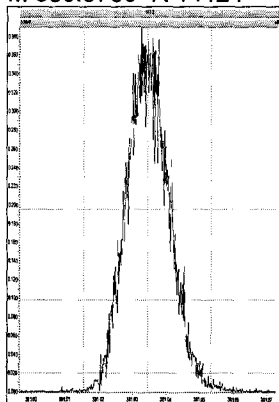
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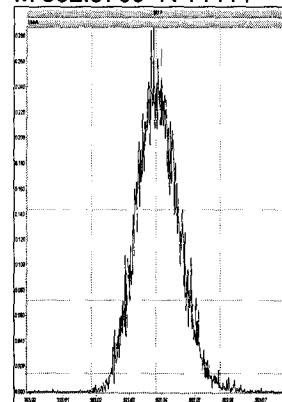
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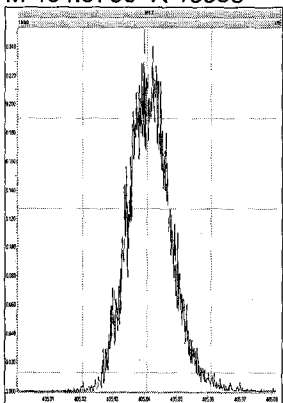
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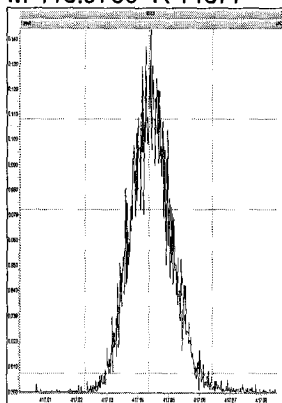
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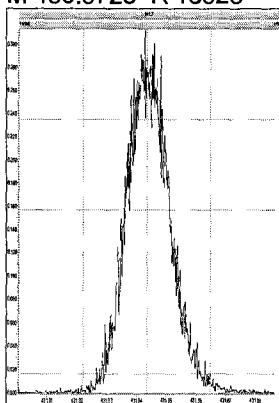
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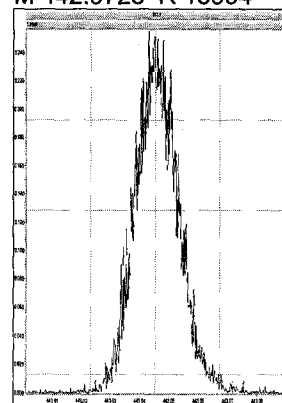
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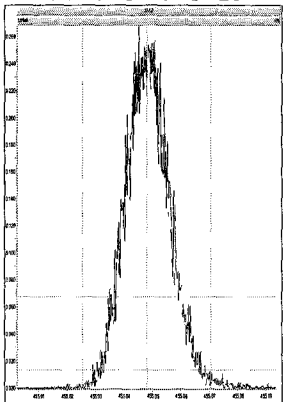
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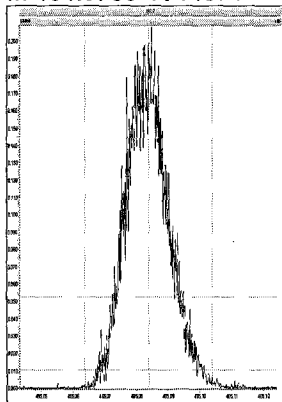
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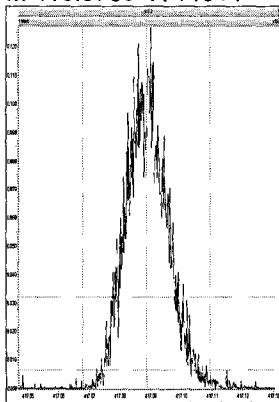
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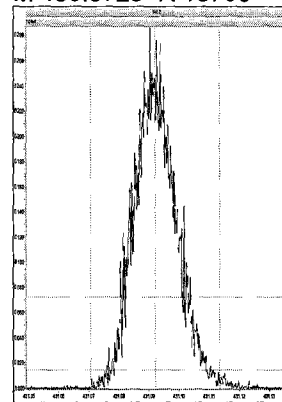
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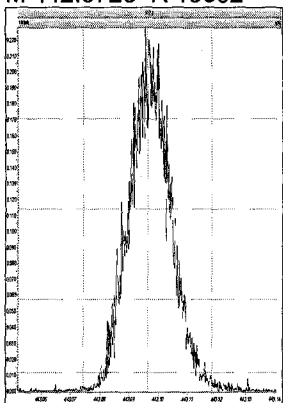
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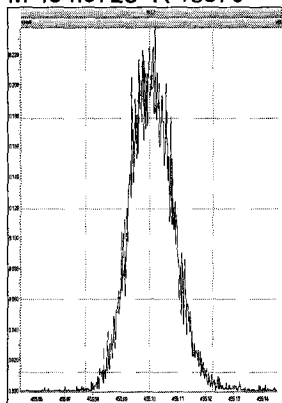
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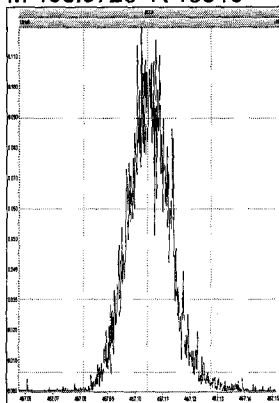
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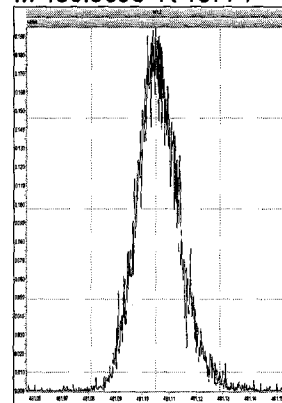
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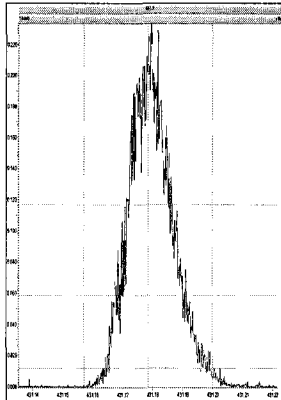


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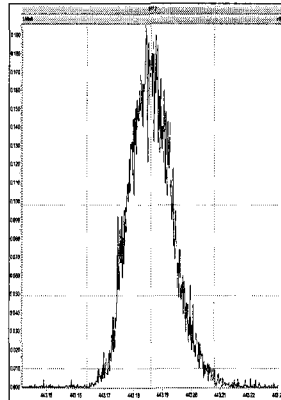


Printed: Wednesday, November 28, 2012 09:59:23 Pacific Standard Time

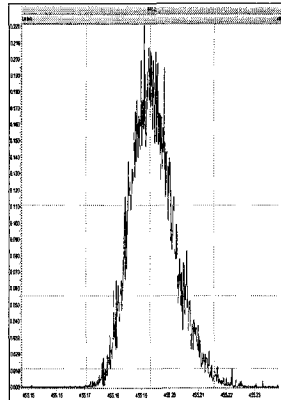
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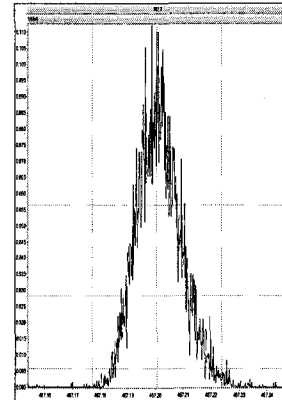
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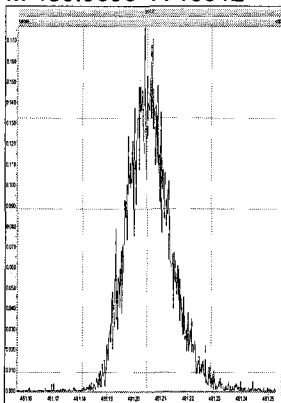
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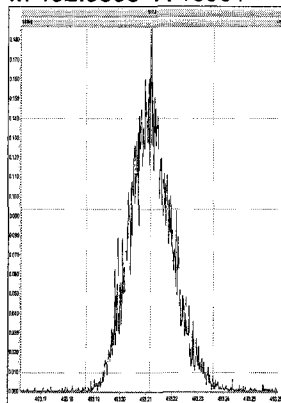
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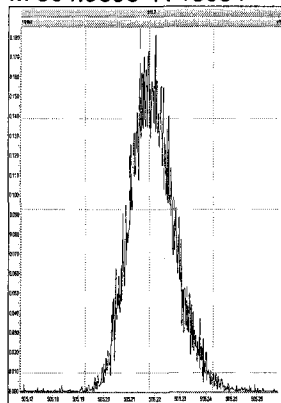
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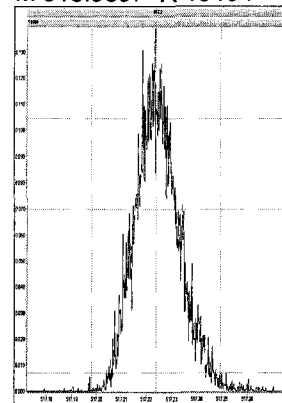
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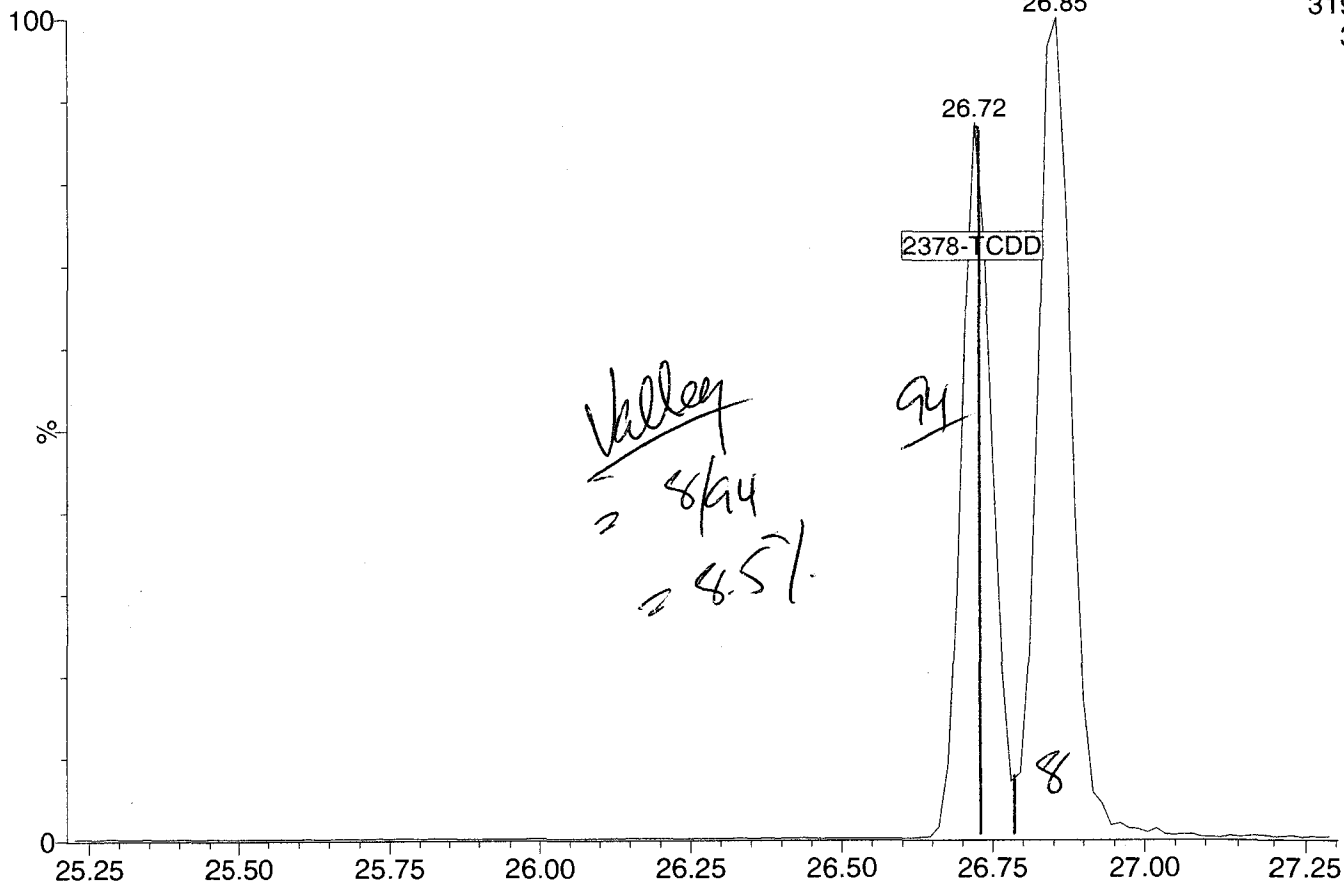


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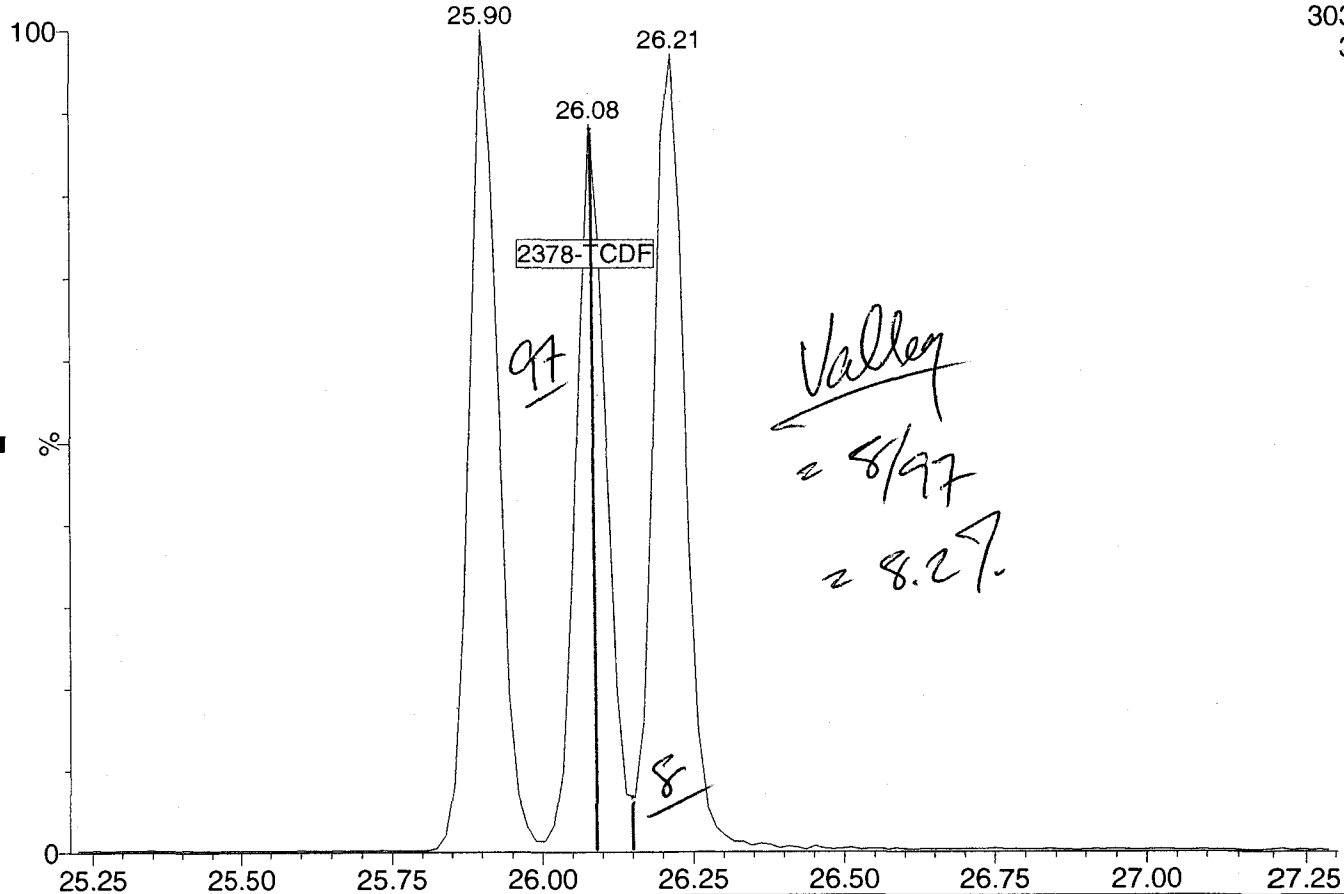
12112803

1: Voltage SIR 15 Channels EI+
319.8965
3.14e6



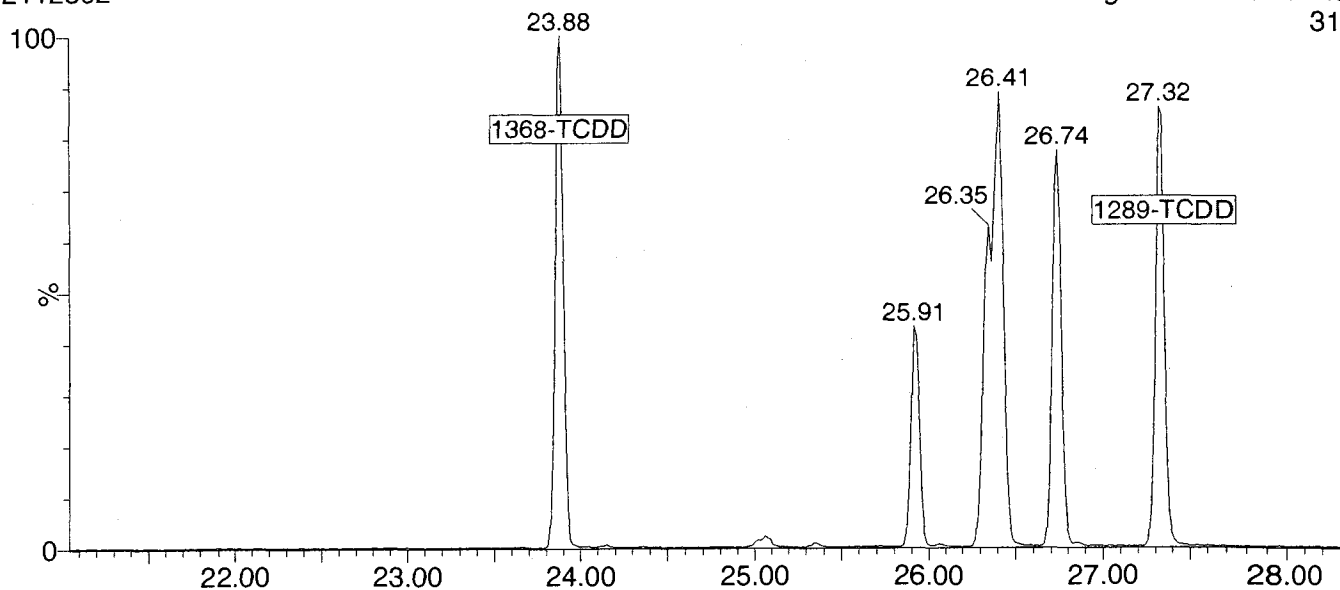
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1: Voltage SIR 15 Channels EI+
303.9016
3.92e6



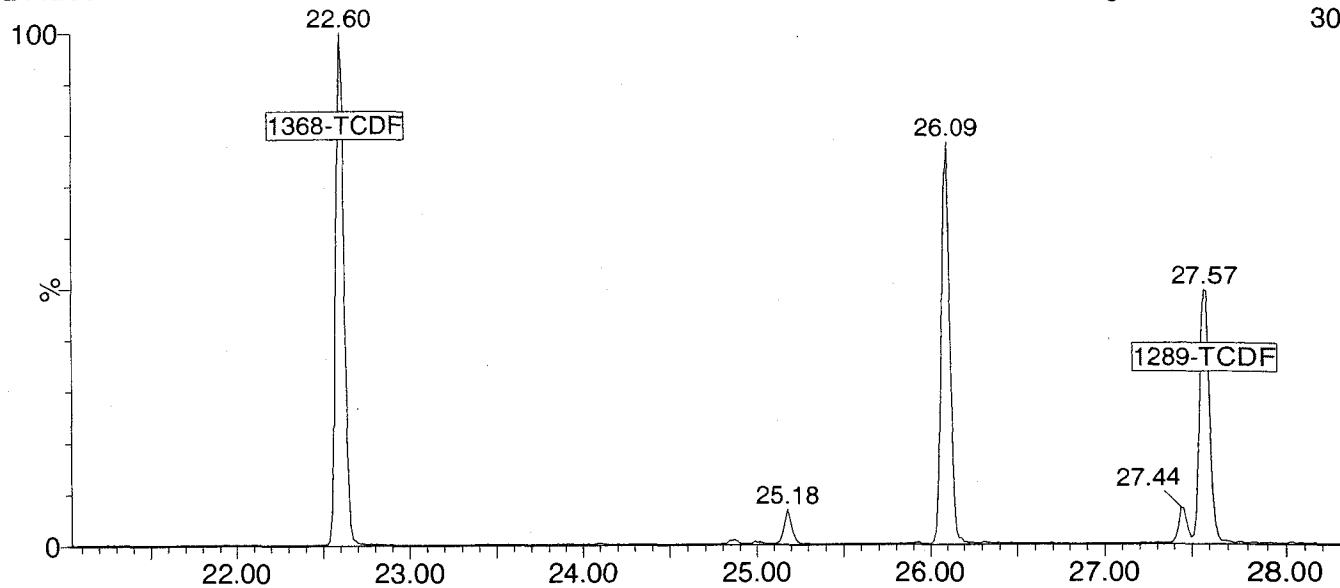
12112802

1: Voltage SIR 15 Channels EI+
319.8965
3.62e6



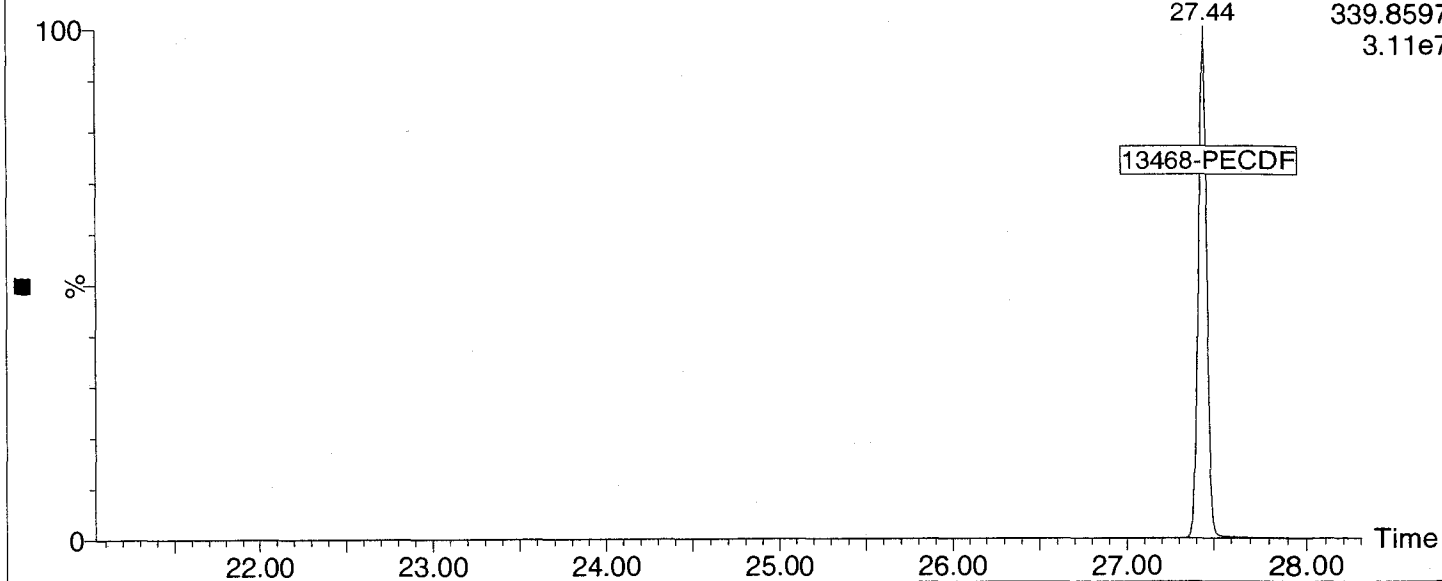
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1: Voltage SIR 15 Channels EI+
303.9016
5.11e6



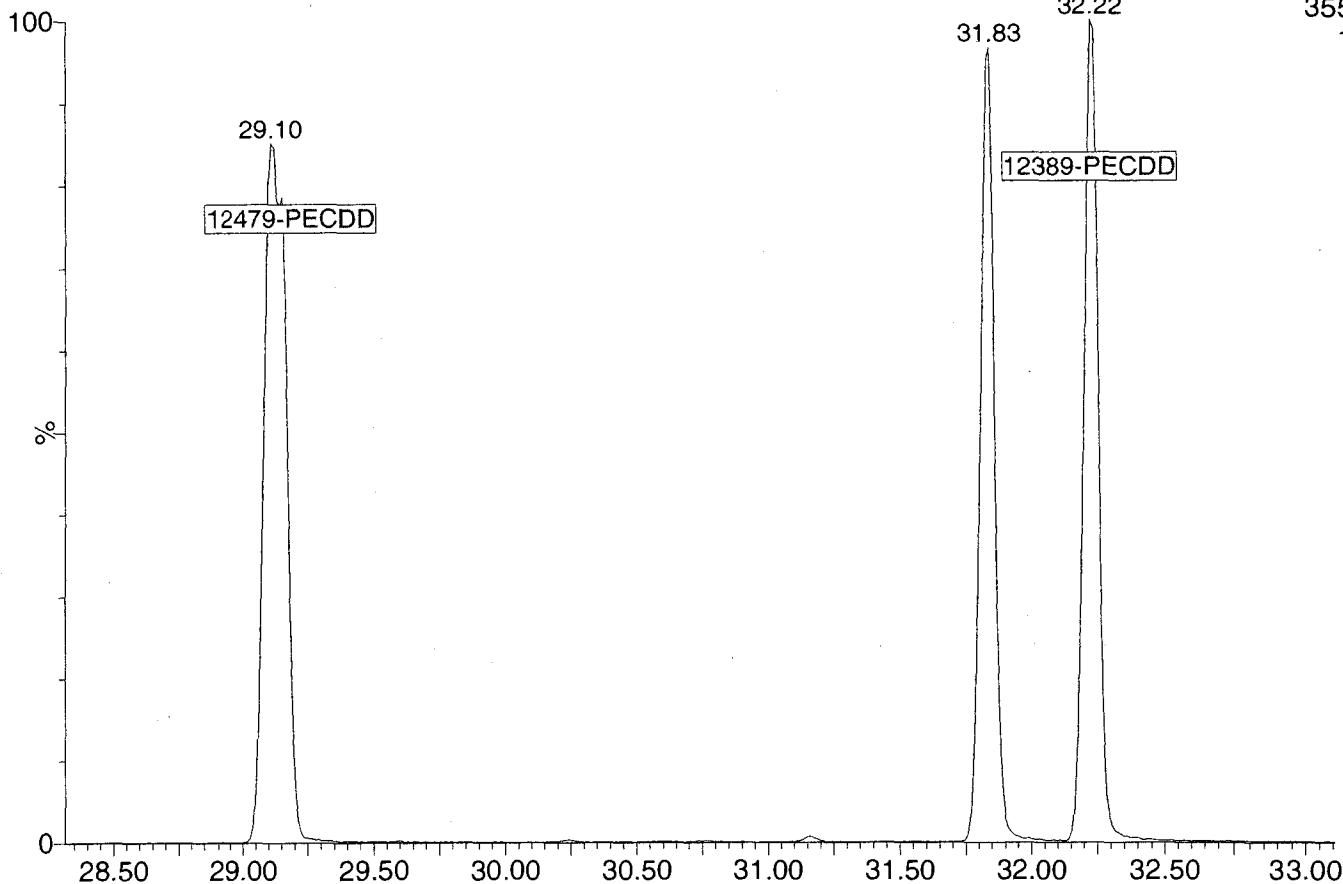
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339.8597
3.11e7



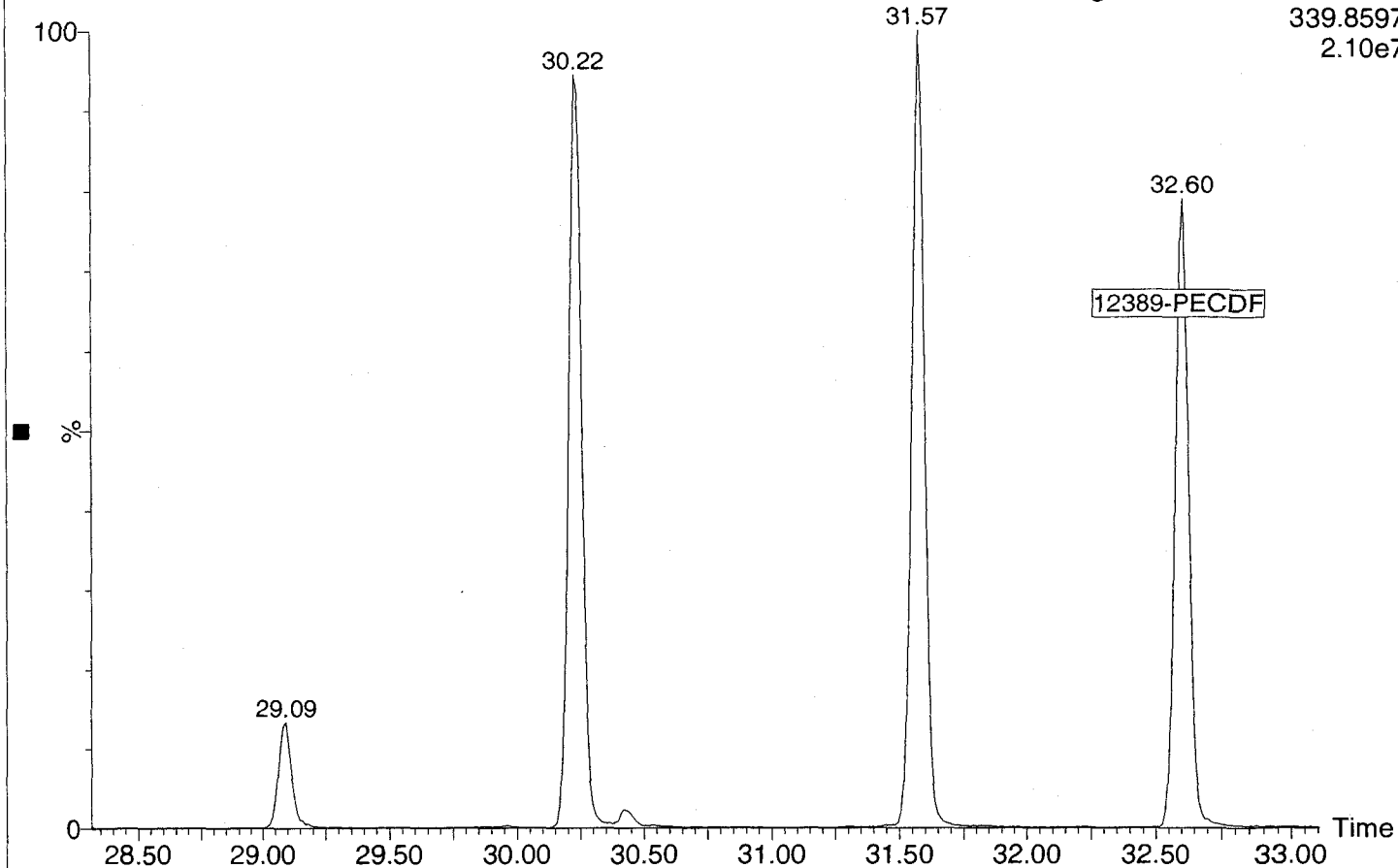
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1.43e7



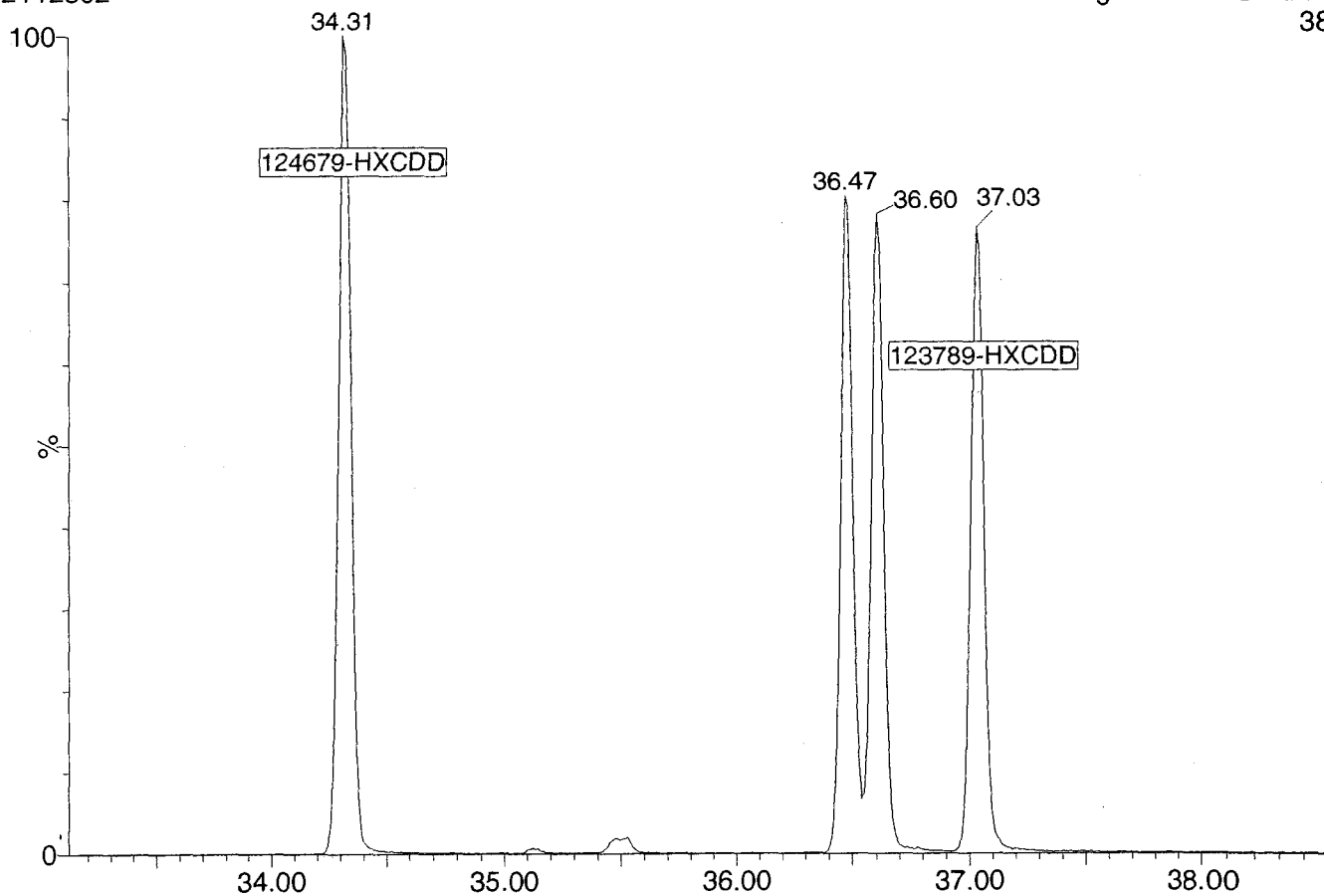
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2.10e7



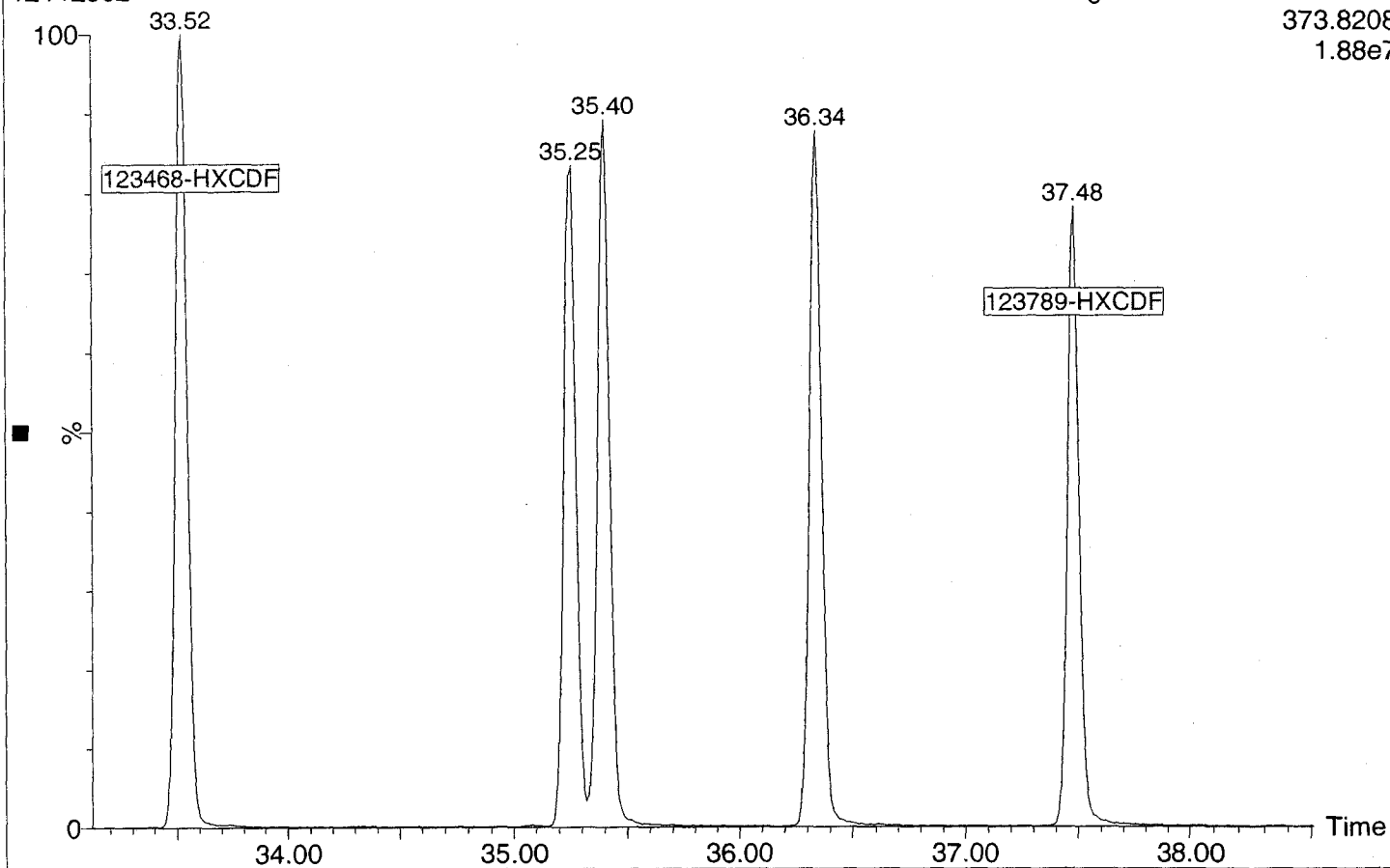
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1.54e7



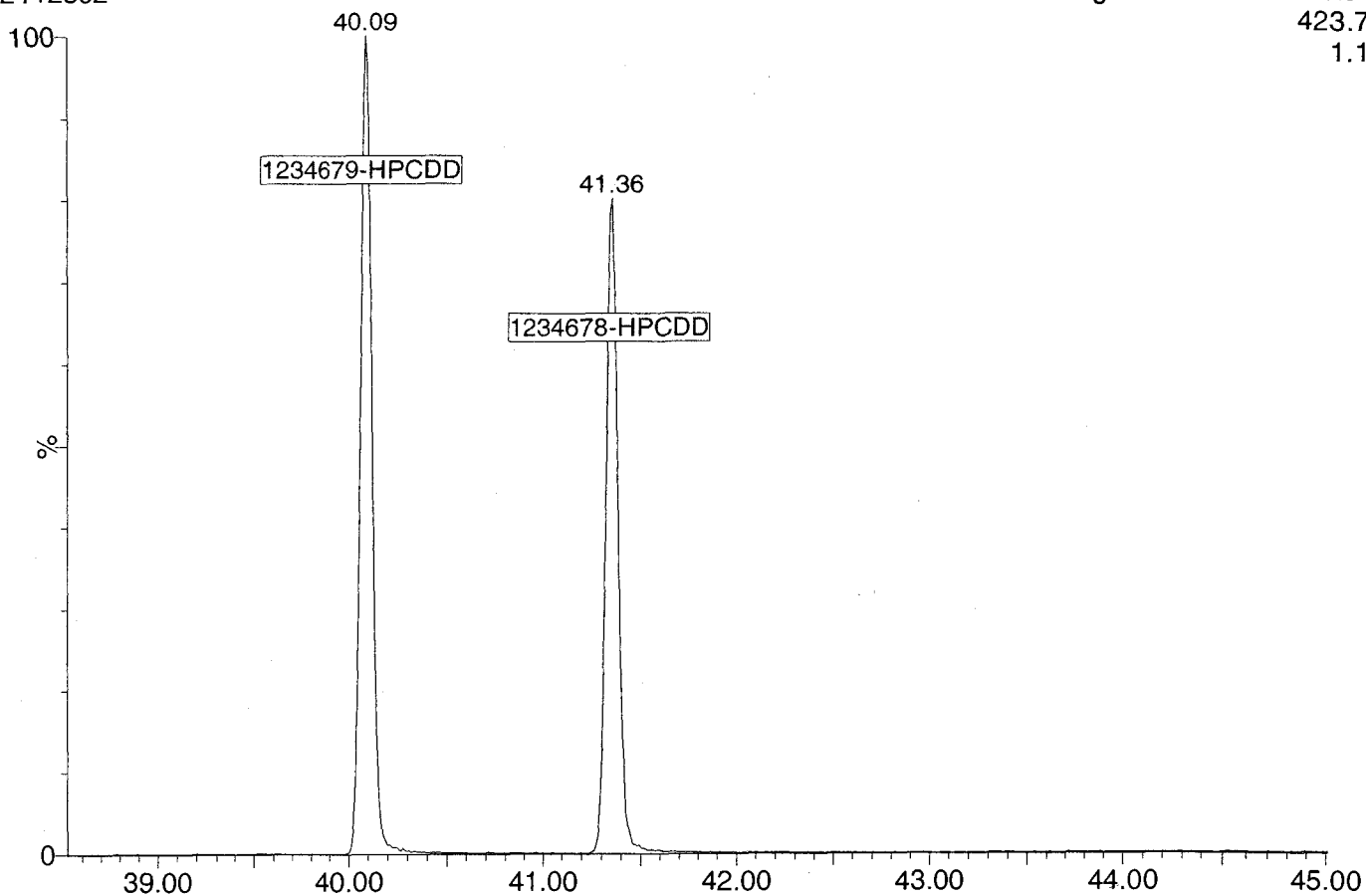
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3: Voltage SIR 11 Channels EI+
373.8208
1.88e7



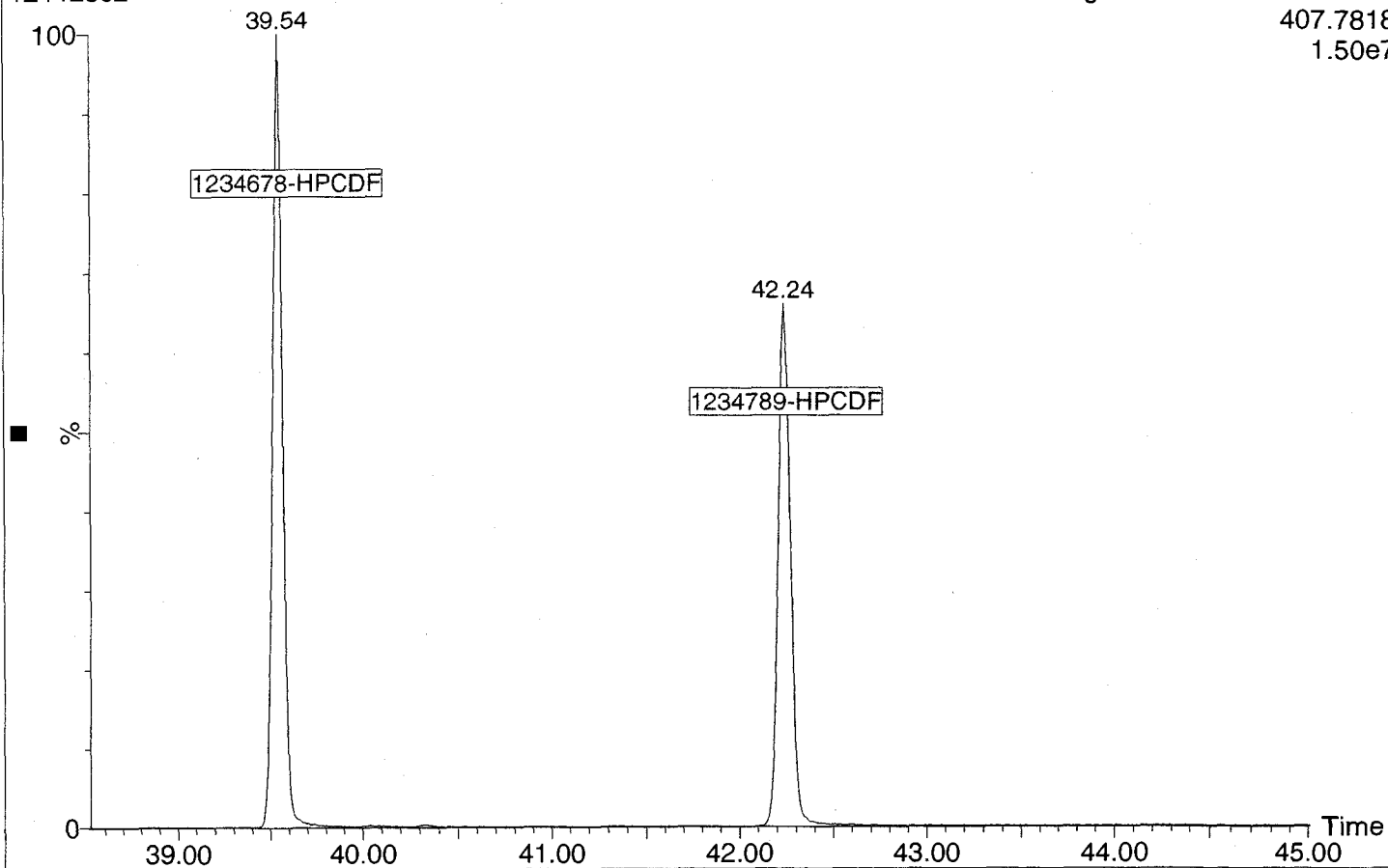
12112802

4: Voltage SIR 11 Channels EI+
423.7766
1.14e7



12112802

4: Voltage SIR 11 Channels EI+
407.7818
1.50e7



Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

	Name	RT	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	EMPC7	EMPC	pp
1	2378-TCDF	26.093	1.001	2.22e5	3.03e5	0.877	0.732	0.770	2267.9	NO	9.821	9.821
2	12378-PeCDF	30.234	1.001	1.19e6	8.13e5	0.896	1.460	1.550	5622.6	NO	49.425	49.425
3	23478-PeCDF	31.571	1.000	1.20e6	8.06e5	0.926	1.489	1.550	5894.4	NO	49.496	49.496
4	123478-HxCDF	35.243	1.000	9.82e5	8.24e5	1.068	1.191	1.240	3040.3	NO	49.736	49.736
5	234678-HxCDF	36.340	1.001	1.00e6	8.41e5	1.037	1.192	1.240	3159.0	NO	50.428	50.428
6	123678-HxCDF	35.397	1.001	1.04e6	8.68e5	1.035	1.196	1.240	3205.7	NO	50.586	50.586
7	123789-HxCDF	37.480	1.001	8.72e5	7.26e5	0.987	1.202	1.240	2792.6	NO	50.287	50.287
8	1234678-HpCDF	39.541	1.000	9.08e5	9.15e5	1.232	0.992	1.050	4735.9	NO	48.956	48.956
9	1234789-HpCDF	42.237	1.000	7.25e5	7.44e5	1.215	0.974	1.050	3206.3	NO	50.824	50.824
10	OCDF	47.550	1.006	1.14e6	1.33e6	1.138	0.854	0.890	4716.9	NO	100.931	100.931
11	2378-TCDD	26.736	1.001	1.69e5	2.18e5	1.049	0.779	0.770	1932.8	NO	9.505	9.505
12	12378-PeCDD	31.834	1.001	8.37e5	5.42e5	0.998	1.546	1.550	5997.9	NO	49.325	49.325
13	123478-HxCDD	36.471	1.000	7.50e5	6.06e5	0.971	1.239	1.240	3771.8	NO	49.437	49.437
14	123678-HxCDD	36.603	1.000	7.55e5	6.14e5	0.918	1.230	1.240	3699.4	NO	50.527	50.527
15	123789-HxCDD	37.030	1.012	7.55e5	6.08e5	0.932	1.243	1.240	3582.1	NO	50.602	50.602
16	1234678-HpCDD	41.360	1.000	6.43e5	6.22e5	1.017	1.034	1.050	2951.5	NO	49.634	49.634
17	OCDD	47.280	1.001	9.99e5	1.13e6	1.008	0.885	0.890	8424.7	NO	98.158	98.158
18	13C-2378-TCDF	26.078	1.007	2.67e6	3.43e6	1.473	0.777	0.770	11355.6	NO	101.609	101.609
19	13C-12378-PeCDF	30.212	1.166	2.76e6	1.76e6	1.148	1.572	1.550	12708.1	NO	96.578	96.578
20	13C-23478-PeCDF	31.560	1.219	2.67e6	1.71e6	1.113	1.567	1.550	12133.9	NO	96.536	96.536
21	13C-123478-HxCDF	35.232	0.952	1.16e6	2.24e6	1.209	0.521	0.510	3615.6	NO	96.753	96.753
22	13C-123678-HxCDF	35.375	0.956	1.24e6	2.41e6	1.269	0.514	0.510	3824.4	NO	98.824	98.824
23	13C-234678-HxCDF	36.318	0.981	1.21e6	2.31e6	1.236	0.523	0.510	3814.6	NO	98.166	98.166
24	13C-123789-HxCDF	37.458	1.012	1.11e6	2.11e6	1.107	0.529	0.510	3507.2	NO	100.176	100.176
25	13C-1234678-HpCDF	39.529	1.068	9.26e5	2.10e6	1.051	0.442	0.440	6313.4	NO	98.921	98.921
26	13C-1234789-HpCDF	42.226	1.141	7.36e5	1.64e6	0.815	0.448	0.440	4354.1	NO	100.482	100.482
27	13C-1234-TCDD	25.899	0.000	1.80e6	2.28e6	1.000	0.790	0.770	7896.6	NO	100.000	100.000
28	13C-2378-TCDD	26.706	1.031	1.70e6	2.18e6	0.946	0.776	0.770	7011.6	NO	100.680	100.680
29	13C-12378-PeCDD	31.813	1.228	1.72e6	1.08e6	0.721	1.582	1.550	15545.4	NO	95.364	95.364
30	13C-123478-HxCDD	36.460	0.985	1.57e6	1.25e6	0.991	1.258	1.240	8817.2	NO	98.126	98.126
31	13C-123678-HxCDD	36.592	0.988	1.64e6	1.31e6	1.025	1.252	1.240	9090.5	NO	99.163	99.163
32	13C-1234678-HpCDD	41.338	1.117	1.28e6	1.22e6	0.866	1.049	1.050	6619.3	NO	99.592	99.592
33	13C-OCDD	47.254	1.276	2.04e6	2.26e6	0.769	0.901	0.890	8088.2	NO	192.321	192.321

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

Name	FT	RFT	Ion Area	Ion2Area	PIR	Ratio	Pred R	SN	EMPC?	EMPC	pg
34	13C-123789-HxCDD	37.019	0.000	1.61e6	1.29e6	1.000	1.251	8396.9	NO		100.000
35	Total-tetrafurans		6.97e5			0.877				31.132	31.027
36	Total-penta1		1.75e6							70.371	70.371
37	Total-pentafurans		3.60e6		0.911					149.256	149.203
38	Total-hexafurans		5.04e6		1.032					260.013	260.013
39	Total-heptafurans		1.64e6		1.223					100.019	100.013
40	Total-Furans		1.38e7		1.041					711.748	711.558
41	Total-tetradiioxins		9.68e5		1.049					54.363	54.298
42	Total-pentadiioxins		2.92e6		0.998					172.003	171.906
43	Total-hexadiioxins		3.22e6		0.940					215.012	214.088
44	Total-heptadiioxins		1.40e6		1.017					107.639	107.623
45	Total-Dioxins		9.50e6		0.985					647.174	646.073
46	Total-TEQ		2.33e7		1.044					1358.922	1357.631
47	37CL-2378-TCDD	26.736	1.032	4.25e5				2899.6			9.985
48	FUNCTION1 PFK		1.68e6								
49	FUNCTION2 PFK		0.00e0								0.000
50	FUNCTION3 PFK		5.87e4								
51	FUNCTION4 PFK		6.94e5								
52	FUNCTION5 PFK		1.78e5								
53	FUNCTION1 HxCDPE		3.75e2								0.000
54	FUNCTION1 HPCDPE		1.14e3								0.000
55	FUNCTION2 HPCDPE		2.04e3								0.000
56	FUNCTION3 OCDPE		0.00e0								
57	FUNCTION4 NCDPE		0.00e0								
58	FUNCTION5 DCDPE		0.00e0								

12112802 : 000000

Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

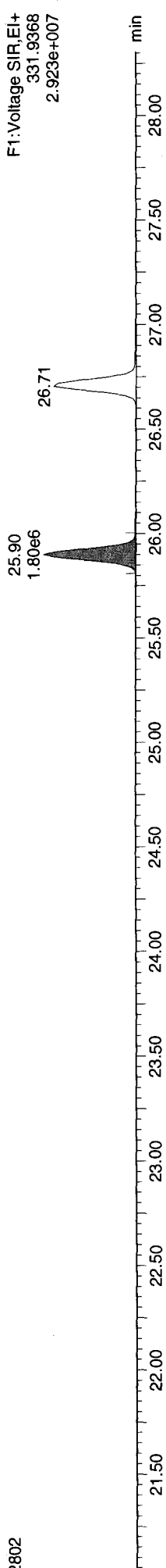
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12112802

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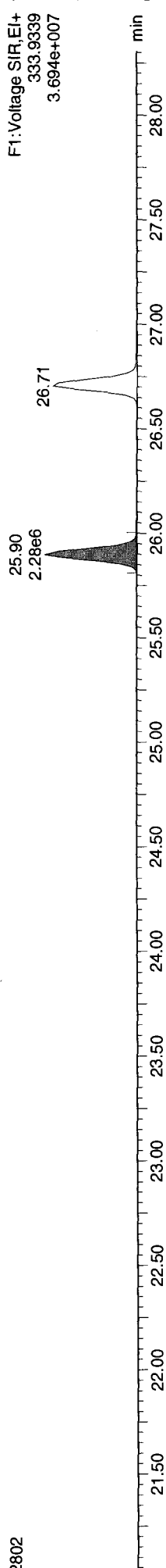
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12112802

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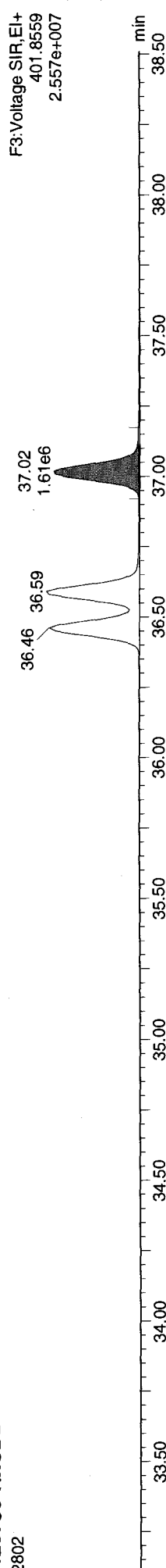
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12112802

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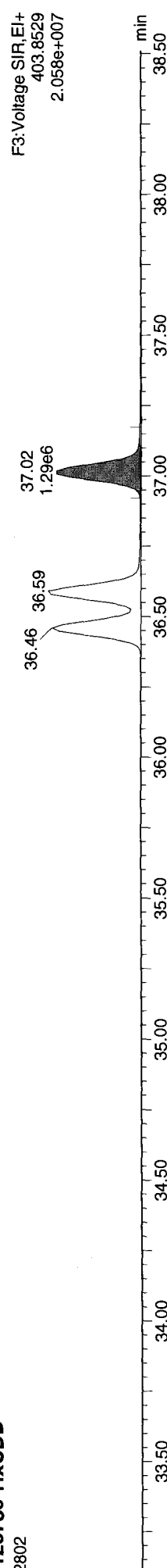
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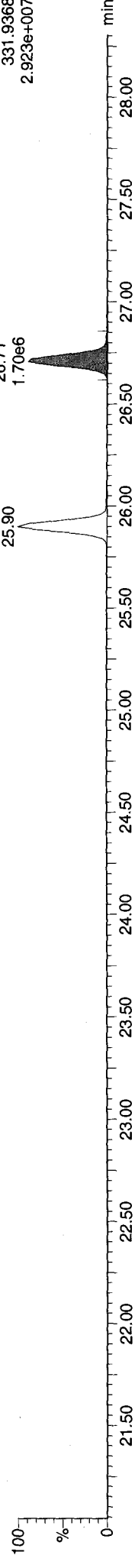
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Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

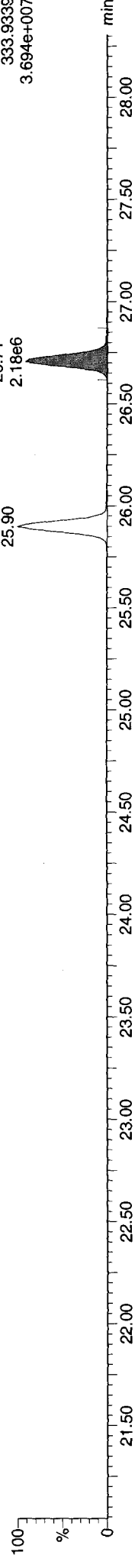
13C-2378-TCDD

12112802



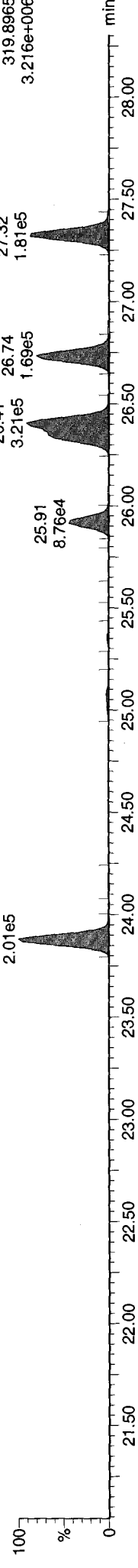
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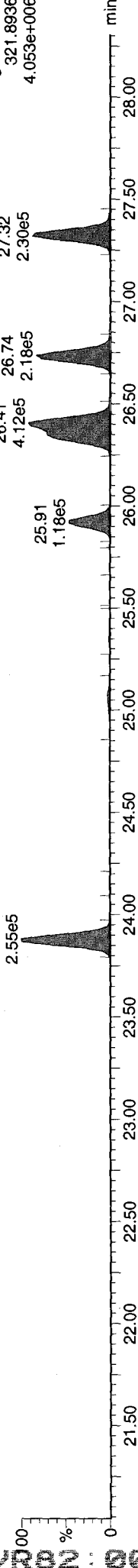
Total-tetradoxins

12112802



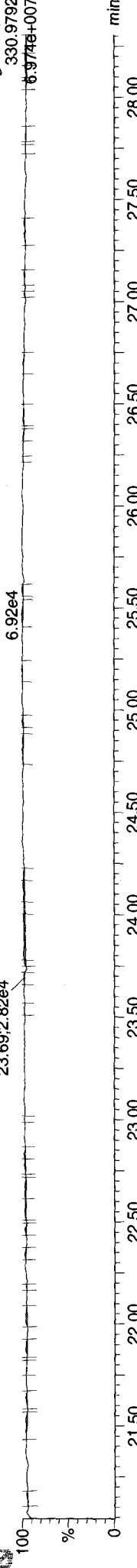
Total-tetradoxins

12112802



FUNCTION1 PFK

12112802



Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

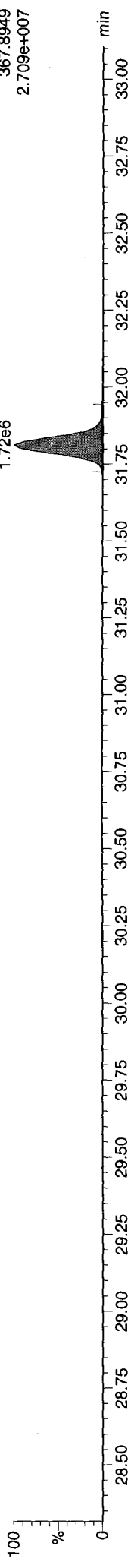
Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

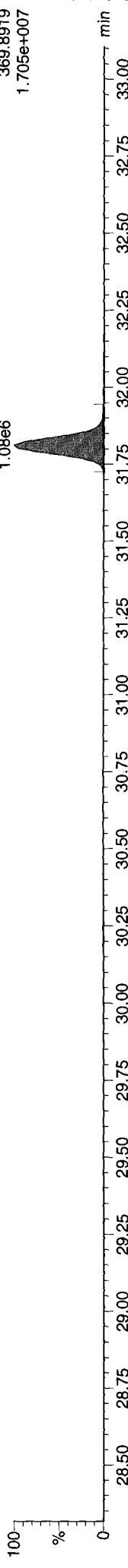
13C-12378-PeCDD

12112802



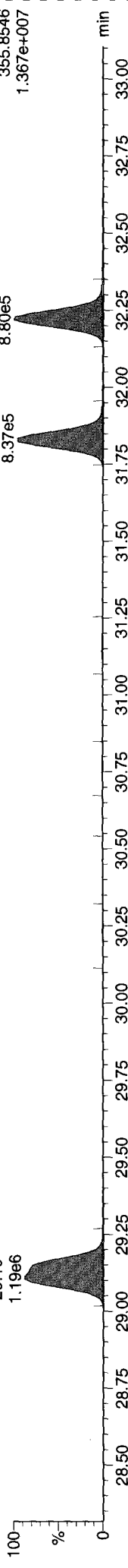
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12112802



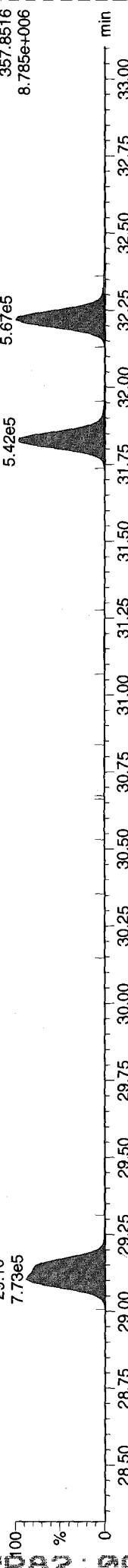
Total-pentadioxins

12112802



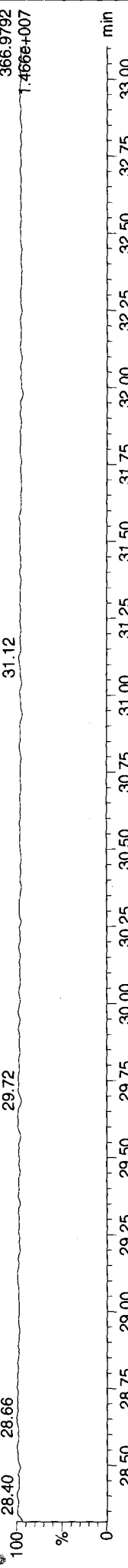
Total-pentadioxins

12112802



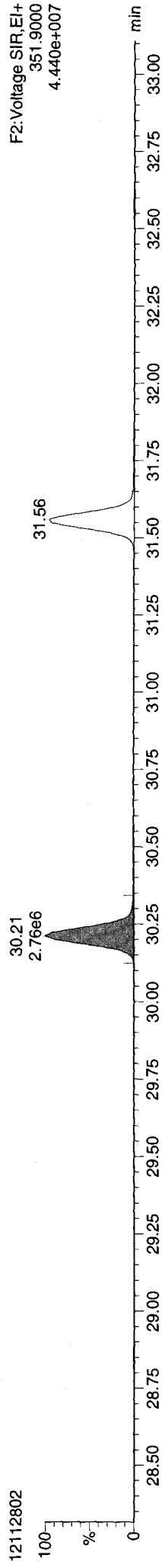
FUNCTION2 PFK

12112802

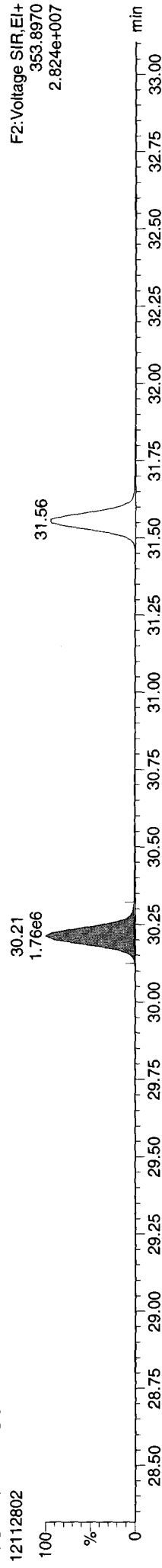


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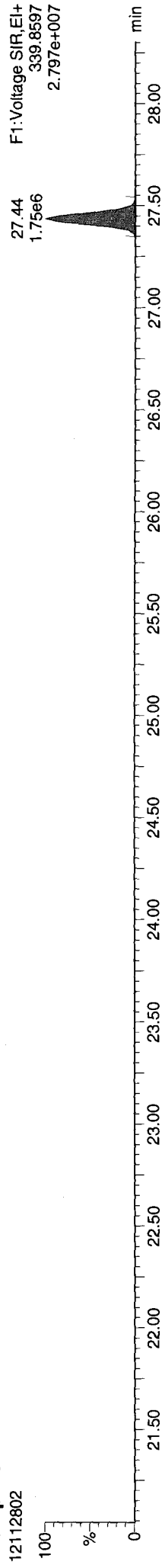
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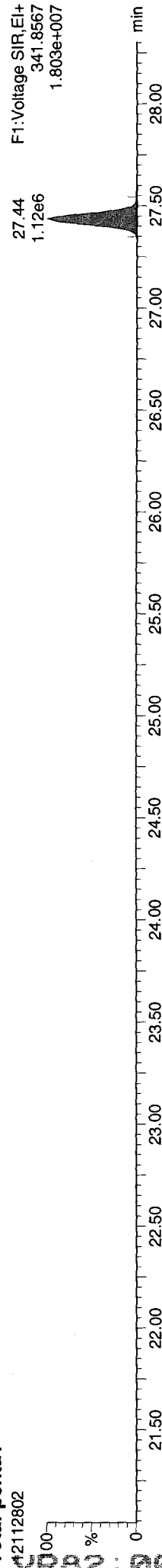
13C-12378-PeCDF



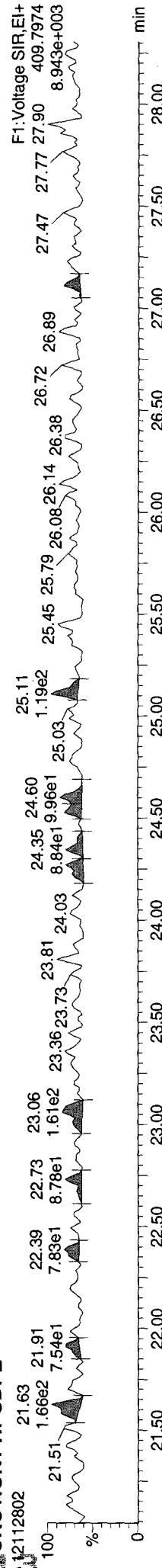
Total-penta1



Total-penta1

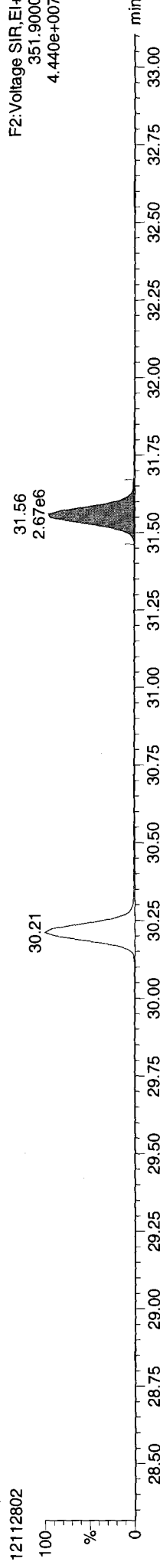


FUNCTION1 HPCDPE

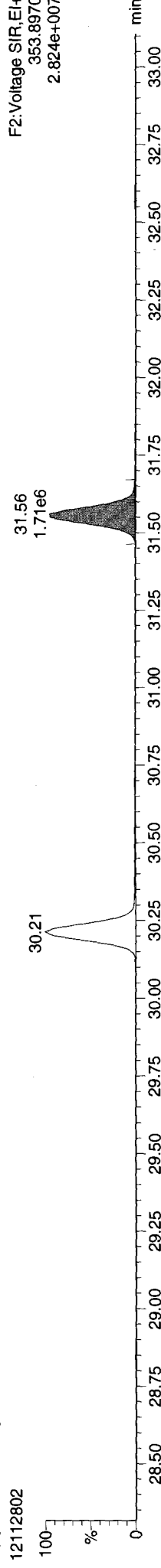


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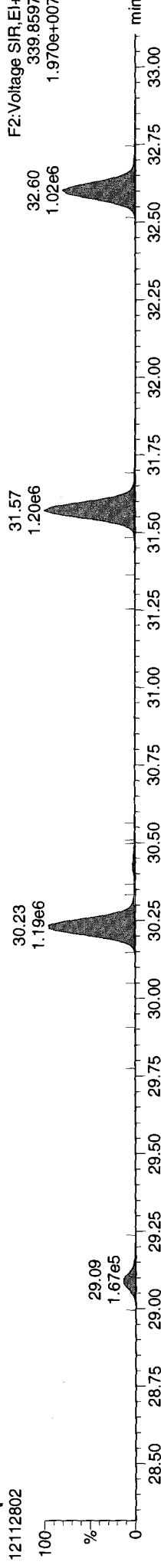
13C-23478-PeCDF



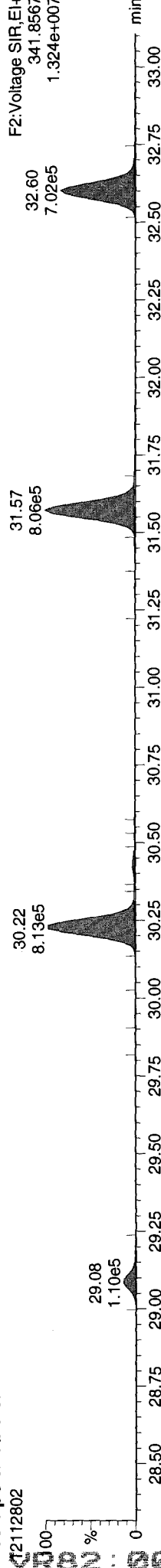
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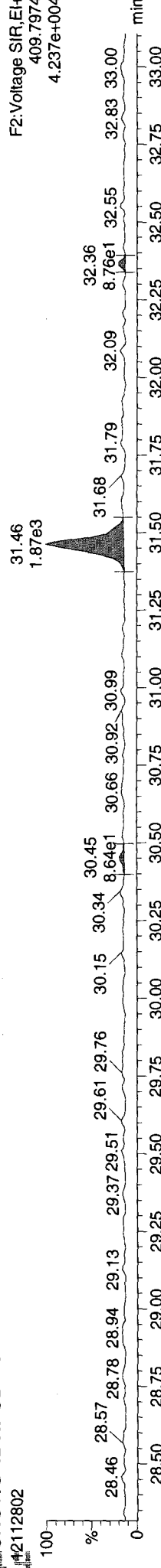
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDFE



Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

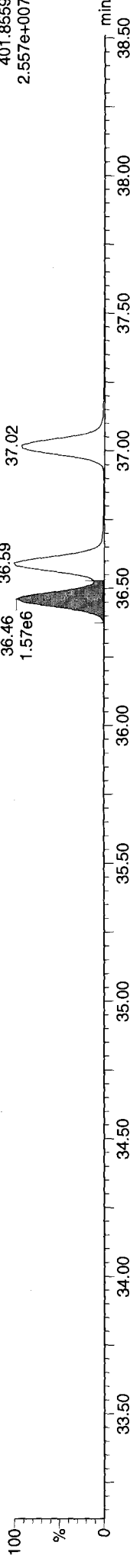
Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time

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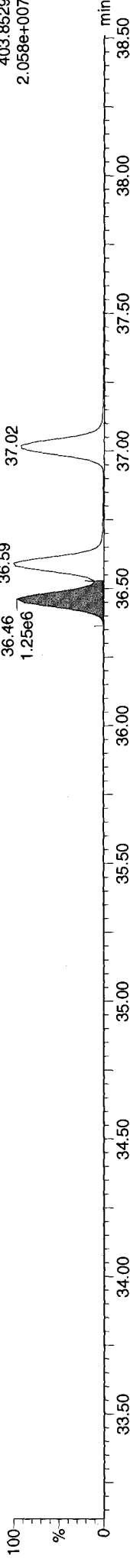
13C-123478-HxCDD

12112802



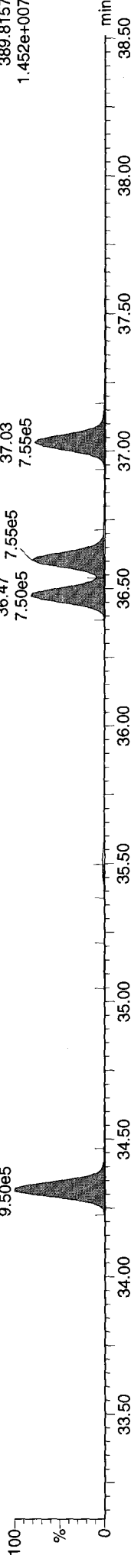
13C-123478-HxCDD

12112802



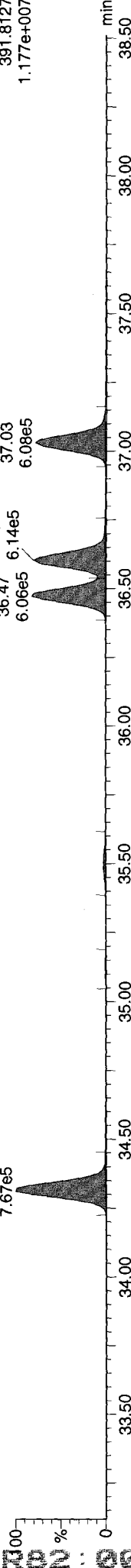
Total-hexadioxins

12112802



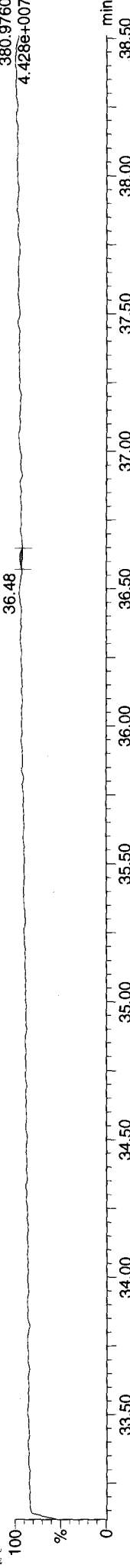
Total-hexadioxins

12112802



FUNCTION3 PFK

12112802



Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld

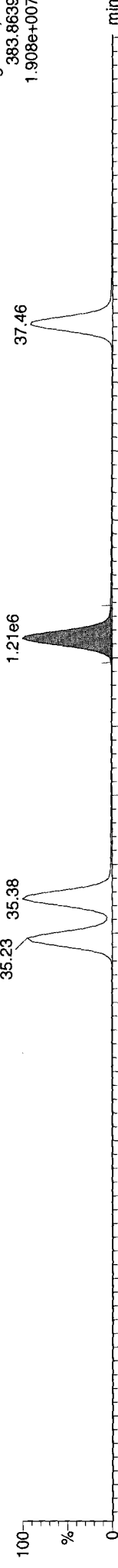
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Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

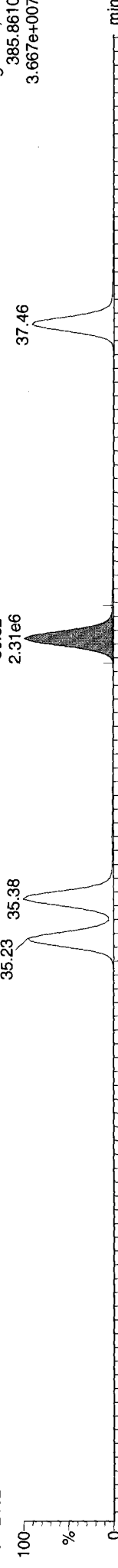
13C-234678-HxCDF

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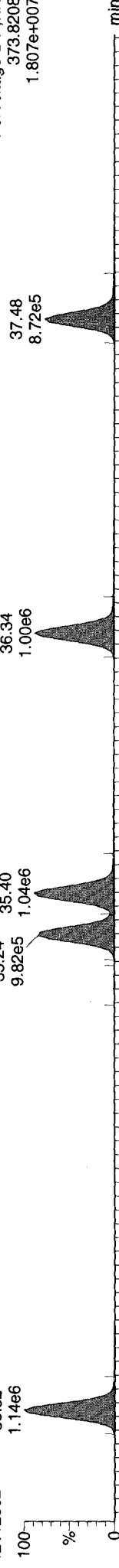
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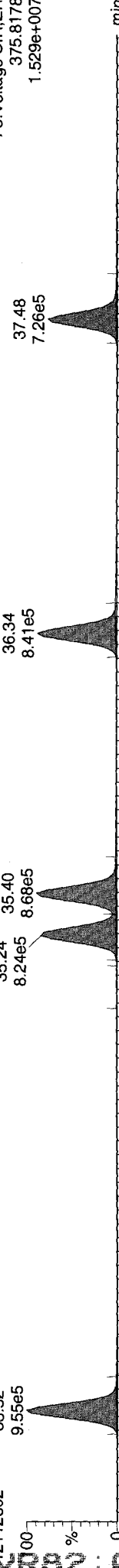
Total-hexafurans

12112802



Total-hexafurans

12112802



FUNCTION3 OCDFE

12112802



F3: Voltage SIR, EI+
383.8639
1.908e+007

F3: Voltage SIR, EI+
385.8610
3.667e+007

F3: Voltage SIR, EI+
373.8208
1.807e+007

F3: Voltage SIR, EI+
375.8178
1.529e+007

F3: Voltage SIR, EI+
38.17
445.7555
38.17
7.010e+003

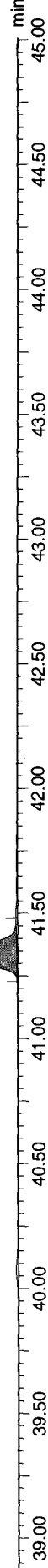
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13C-1234678-HpCDD

12112802

100
%
0

41.34
1.28e6



F4: Voltage SIR, EI+
435.8169
1.754e+007

13C-1234678-HpCDD

12112802

100
%
0

41.34
1.22e6



F4: Voltage SIR, EI+
437.8140
1.670e+007

Total-heptadioxins

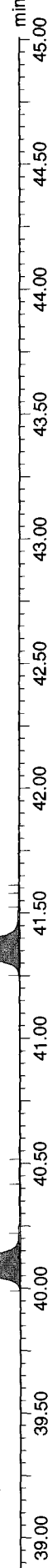
12112802

100
%
0

40.09
7.52e5



41.36
6.43e5



F4: Voltage SIR, EI+
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1.091e+007

Total-heptadioxins

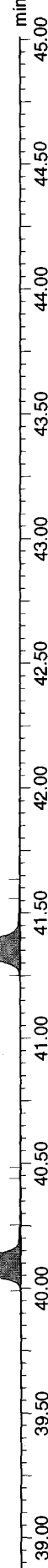
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100
%
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40.09
7.26e5



41.36
6.22e5



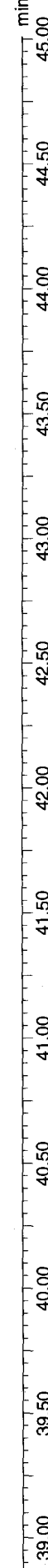
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425.7737
1.042e+007

FUNCTION4 PFK

12112802

100
%
0

40.12
2.11e4



F4: Voltage SIR, EI+
430.9728
2.974e+007

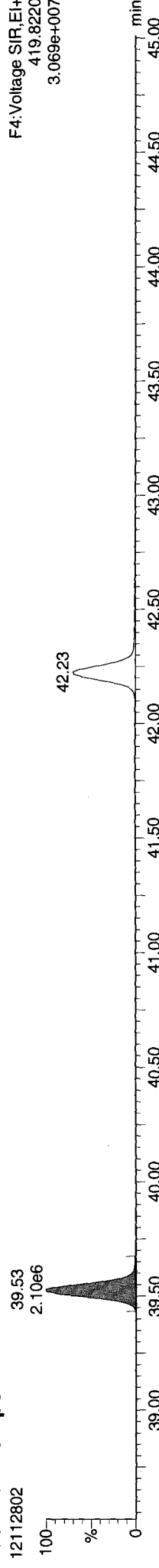
Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld
Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time
Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



13C-1234678-HpCDF



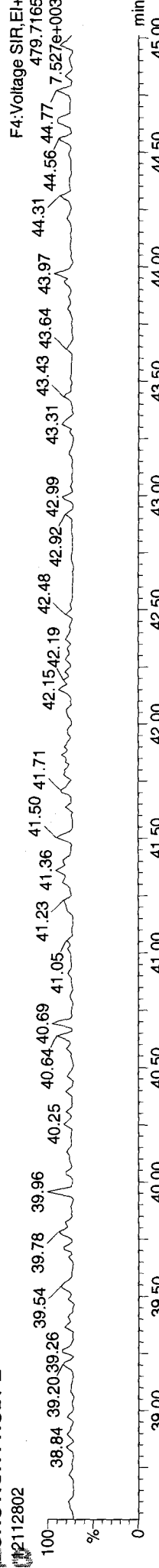
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Dataset: P:\DIOXIN8290.PRO\121128OPEN.qld
Last Altered: Wednesday, November 28, 2012 11:16:34 Pacific Standard Time
Printed: Tuesday, December 11, 2012 13:07:59 Pacific Standard Time

Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

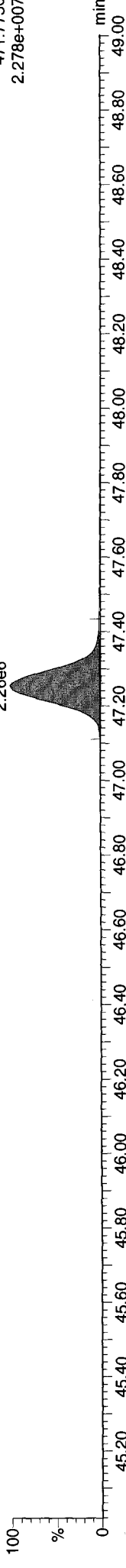
13C-OCDD

12112802



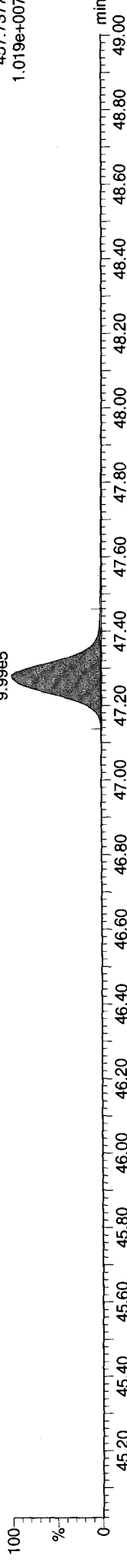
13C-OCDD

12112802



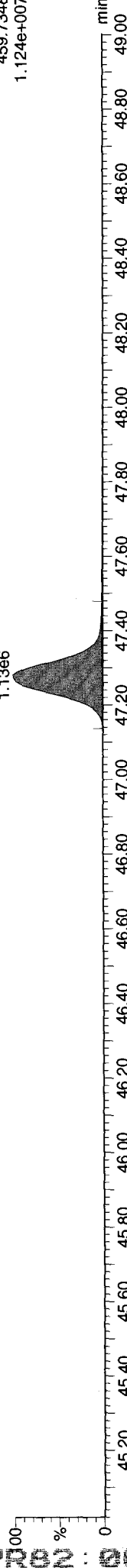
OCDD

12112802



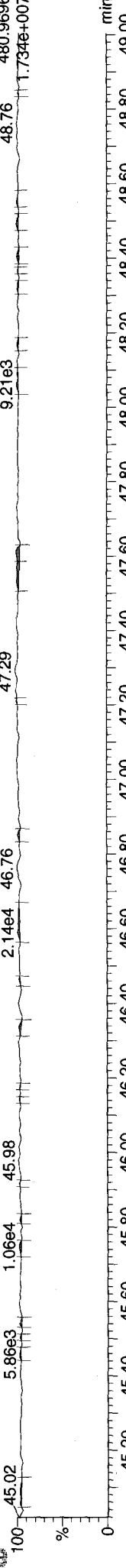
OCDD

12112802



FUNCTION5 PFK

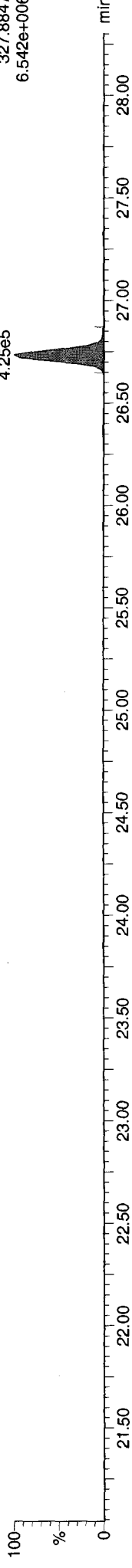
12112802



Name: 12112802, Date: 28-Nov-2012, Time: 10:02:21, ID: CS3, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

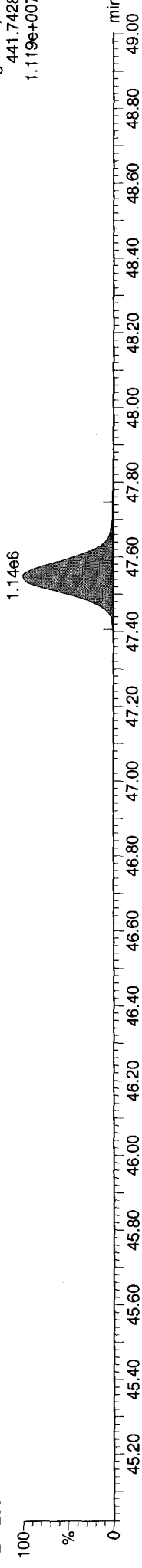
12112802



F1: Voltage SIR, EI+
327.8847
6.542e+006

OCDF

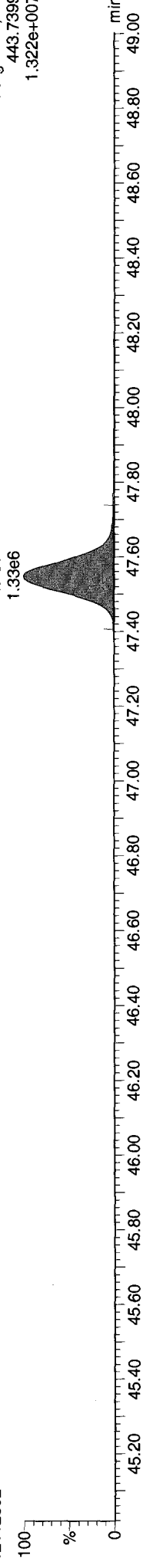
12112802



F5: Voltage SIR, EI+
441.7428
1.119e+007

OCDF

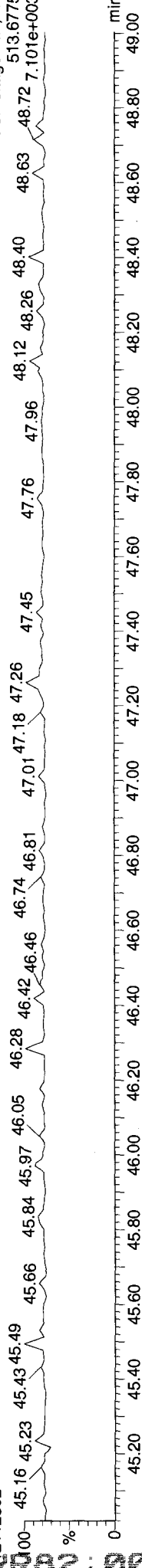
12112802



F5: Voltage SIR, EI+
443.7399
1.322e+007

FUNCTION5 DCDPE

12112802



F5: Voltage SIR, EI+
513.6775
48.72 7.101e+003

ARI
CDD/CDF EDL DATA
HIGH RESOLUTION

Lab. Sample ID: VR58MBS
 Lab. File ID: 12112804
 Date Analysed: 28-Nov-12

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.013
12378-PeCDD	356/358	0.00			0.015
123478-HxCDD	390/392	0.00			0.015
123678-HxCDD	390/392	0.00			0.015
123789-HxCDD	390/392	0.00			0.015
1234678-HpCDD	424/426	41.38	0.124		
OCDD	458/460	47.30	0.748		
2378-TCDF	304/306	26.14	0.0156		
12378-PeCDF	340/342	0.00			0.017
23478-PeCDF	340/342	0.00			0.017
123478-HxCDF	374/376	0.00			0.013
234678-HxCDF	374/376	0.00			0.014
123678-HxCDF	374/376	0.00			0.012
123789-HxCDF	374/376	37.48	0.0127		
1234678-HpCDF	408/410	39.57	0.0320	0.0210	
1234789-HpCDF	408/410	0.00			0.010
OCDF	442/444	47.60	0.0284	0.0210	

Note: EDL values as listed are based on 1ul injection. Final EDL values will be corrected for final volume of the extract (normally 20ul).

0.082
0.012

Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Mr 12/10/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	PredF	S/N	Noise 1	Noise 2	Height	Height 2	EMPC1	EMPC2	pg
1 2378-TCDF	26.138	1.002	2.22e2	3.12e2	0.877	0.711	0.770	2.9	1205	1552	3.50e3	5.19e3	NO	NO	0.016
2 12378-PeCDF					0.896		1.550		985	2009					
3 23478-PeCDF					0.926		1.550		985	2009					
4 123478-HxCDF					1.068		1.240		990	881					
5 234678-HxCDF					1.037		1.240		990	881					
6 123678-HxCDF					1.035		1.240		990	881					
7 123789-HxCDF	37.479	1.000	1.31e2	1.14e2	0.987	1.145	1.240	3.4	990	881	3.35e3	2.57e3	NO	NO	0.013
8 1234678-HpCDF	39.573	1.001	2.30e2	4.50e2	1.232	0.512	1.050	11.6	375	487	4.34e3	7.45e3	YES	YES	0.032
9 1234789-HpCDF					1.215		1.050		375	487					
10 OCDF	47.603	1.007	1.32e2	2.53e2	1.138	0.519	0.890	8.4	576	1063	4.86e3	4.27e3	YES	YES	0.021
11 2378-TCDD					1.049		0.770		1105	1206	3300				0.028
12 12378-PeCDD					0.998		1.550		1113	689					
13 123478-HxCDD					0.971		1.240		820	848					
14 123678-HxCDD					0.918		1.240		820	848					
15 123789-HxCDD					0.932		1.240		820	848					
16 1234678-HpCDD	41.382	1.001	9.96e2	9.71e2	1.017	1.026	1.050	24.2	527	592	1.27e4	1.24e4	NO	NO	0.124
17 OCDD	47.298	1.000	4.17e3	4.83e3	1.008	0.864	0.890	49.0	946	393	4.63e4	5.00e4	NO	NO	0.748
18 13C-2378-TCDF	26.093	1.007	1.70e6	2.20e6	1.473	0.772	0.770	6847.0	3777	2326	2.59e7	3.39e7	NO	NO	89.739
19 13C-12378-PeCDF	30.223	1.166	1.94e6	1.24e6	1.148	1.568	1.550	5327.9	5796	3517	3.09e7	2.00e7	NO	NO	93.895
20 13C-23478-PeCDF	31.571	1.218	1.80e6	1.15e6	1.113	1.566	1.550	4995.3	5796	3517	2.90e7	1.83e7	NO	NO	89.827
21 13C-123478-HxCDF	35.243	0.952	7.48e5	1.45e6	1.209	0.518	0.510	3829.4	3020	8213	1.16e7	2.22e7	NO	NO	94.316
22 13C-123678-HxCDF	35.397	0.956	8.45e5	1.61e6	1.269	0.525	0.510	4128.0	3020	8213	1.25e7	2.40e7	NO	NO	100.606
23 13C-234678-HxCDF	36.339	0.981	7.27e5	1.41e6	1.236	0.516	0.510	3654.3	3020	8213	1.10e7	2.12e7	NO	NO	89.766
24 13C-123789-HxCDF	37.479	1.012	6.61e5	1.29e6	1.107	0.512	0.510	3447.1	3020	8213	1.04e7	2.01e7	NO	NO	91.762
25 13C-1234678-HpCDF	39.540	1.068	5.30e5	1.19e6	1.051	0.444	0.440	4106.1	1917	2763	7.87e6	1.80e7	NO	NO	85.278
26 13C-1234789-HpCDF	42.236	1.141	4.18e5	9.37e5	0.815	0.446	0.440	2785.0	1917	2763	5.34e6	1.19e7	NO	NO	86.495
27 13C-1234-TCDD	25.914	0.000	1.29e6	1.66e6	1.000	0.779	0.770	5437.0	3860	2415	2.10e7	2.68e7	NO	NO	100.000
28 13C-2378-TCDD	26.721	1.031	1.18e6	1.51e6	0.946	0.787	0.770	4815.8	3860	2415	1.86e7	2.38e7	NO	NO	96.367
29 13C-12378-PeCDD	31.823	1.228	1.19e6	7.58e5	0.721	1.571	1.550	8877.5	2089	1692	1.85e7	1.18e7	NO	NO	91.601
30 13C-123478-HxCDD	36.471	0.985	1.04e6	8.27e5	0.991	1.261	1.240	5107.9	3127	3340	1.60e7	1.28e7	NO	NO	98.057
31 13C-123678-HxCDD	36.602	0.988	1.12e6	9.00e5	1.025	1.247	1.240	5463.3	3127	3340	1.71e7	1.37e7	NO	NO	102.563
32 13C-1234678-HpCDD	41.360	1.117	7.96e5	7.67e5	0.866	1.038	1.050	3377.0	3092	3349	1.04e7	1.00e7	NO	NO	93.779
33 13C-OCDD	47.280	1.277	1.12e6	1.27e6	0.769	0.882	0.890	3633.5	2982	3071	1.08e7	1.26e7	NO	NO	161.193

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

Peak #	Name	RT	FRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC?	EMPC	pg
34	13C-123789-HXCDD	37.030	0.000	1.07e6	8.51e5	1.000	1.260	1.240	5158.8	3127	3340	1.61e7	1.30e7	NO		100.000
35	Total-tetrafurans			2.22e2		0.877				1205		3.50e3			0.022	0.016
36	Total-penta1			0.00e0						545		0.00e0				
37	Total-pentafurans			0.00e0		0.911				985		0.00e0				
38	Total-hexafurans			1.31e2		1.032				990		3.35e3			0.013	0.013
39	Total-heptafurans			0.00e0		1.223				375		0.00e0			0.029	0.000
40	Total-Furans			3.52e2		1.041				1205		6.84e3			0.085	0.028
41	Total-tetradioxins			0.00e0		1.049				1105		0.00e0			0.017	0.000
42	Total-pentadioxins			0.00e0		0.998				1113		0.00e0				
43	Total-hexadioxins			1.66e2		0.940				820		3.75e3			0.044	0.017
44	Total-heptadioxins			2.24e3		1.017				527		3.43e4			0.275	0.275
45	Total-Dioxins			2.02e4		0.985				1105		3.97e5			0.085	0.028
46	Total-TEQ			2.06e4						1105		4.04e5			0.170	0.057
47	37CL-2378-TCDD	26.751	1.032	1.26e6		1.044			9120.7	2140		1.95e7				41.059
48	FUNCTION1 PFK			2.64e6						811933		3.92e7				0.000
49	FUNCTION2 PFK			1.93e5						198409		5.57e6				0.000
50	FUNCTION3 PFK			1.38e5						629049		4.91e6				0.000
51	FUNCTION4 PFK			2.28e5						419121		7.17e6				
52	FUNCTION5 PFK			2.57e5						277723		1.04e7				
53	FUNCTION1 HXCDPE			7.78e1						511		2.35e3				0.000
54	FUNCTION1 HPCDPE			9.52e2						1264		2.12e4				0.000
55	FUNCTION2 HPCDPE			6.61e2						1007		1.66e4				0.000
56	FUNCTION3 OCDPE			0.00e0						348		0.00e0				
57	FUNCTION4 NCDPE			0.00e0						520		0.00e0				
58	FUNCTION5 DCDPE			9.80e1						191		5.47e3				0.000

12112804 : 09 09 09 09

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	2378-TCDF	303.9016	26.14	533.487	0.877	0.016	0.016	0.71	0.77	NO	2.9
35	Total-tetrafurans	303.9016	25.91	0.000	0.877	0.000	0.007	1.29	0.77	YES	2.9

PP

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N

PF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N

HF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
7	123789-HxCDF	373.8208	37.48	244.870	0.987	0.013	0.013	1.14	1.24	NO	3.4

HPF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
8	1234678-HpCDF	407.7818	39.57	679.884	1.232	0.000	0.021	0.51	1.05	YES	11.6
39	Total-heptafurans	407.7818	39.54	0.000	1.223	0.000	0.008	0.23	1.05	YES	6.2

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	2378-TCDF	303.9016	26.14	533.487	0.877	0.016	0.016	0.71	0.77	NO	2.9
35	Total-tetrafurans	303.9016	25.91	0.000	0.877	0.000	0.007	1.29	0.77	YES	2.9
7	123789-HxCDF	373.8208	37.48	244.870	0.987	0.013	0.013	1.14	1.24	NO	3.4
8	1234678-HpCDF	407.7818	39.57	679.884	1.232	0.000	0.021	0.51	1.05	YES	11.6
39	Total-heptafurans	407.7818	39.54	0.000	1.223	0.000	0.008	0.23	1.05	YES	6.2
10	OCDF	441.7428	47.60	384.915	1.138	0.000	0.021	0.52	0.89	YES	8.4

TD

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
41	Total-tetraoxins	319.8965	24.88	0.000	1.049	0.000	0.017	1.29	0.77	YES	4.0

PD

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N

VR02 : 00024

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

HD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	35.50	318.826	0.940	0.017	0.017	1.09	1.24	NO	4.6
2	43 Total-hexadioxins	389.8157	34.33	0.000	0.940	0.000	0.027	2.02	1.24	YES	9.1

HPD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	44 Total-heptadioxins	423.7766	40.11	2394.638	1.017	0.151	0.151	1.07	1.05	NO	41.0
2	16 1234678-HpCDD	423.7766	41.38	1967.079	1.017	0.124	0.124	1.03	1.05	NO	24.2

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.14	533.487	0.877	0.016	0.016	0.71	0.77	NO	2.9
2	35 Total-tetrafurans	303.9016	25.91	0.000	0.877	0.000	0.007	1.29	0.77	YES	2.9
3	7 123789-HxCDF	373.8208	37.48	244.870	0.987	0.013	0.013	1.14	1.24	NO	3.4
4	8 1234678-HpCDF	407.7818	39.57	679.884	1.232	0.032	0.021	0.51	1.05	YES	11.6
5	39 Total-heptafurans	407.7818	39.54	0.000	1.223	0.000	0.008	0.23	1.05	YES	6.2
6	10 OCDF	441.7428	47.60	384.915	1.138	0.028	0.021	0.52	0.89	YES	8.4

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.14	533.487	0.877	0.016	0.016	0.71	0.77	NO	2.9
2	35 Total-tetrafurans	303.9016	25.91	0.000	0.877	0.000	0.007	1.29	0.77	YES	2.9
3	7 123789-HxCDF	373.8208	37.48	244.870	0.987	0.013	0.013	1.14	1.24	NO	3.4
4	8 1234678-HpCDF	407.7818	39.57	679.884	1.232	0.000	0.021	0.51	1.05	YES	11.6
5	39 Total-heptafurans	407.7818	39.54	0.000	1.223	0.000	0.008	0.23	1.05	YES	6.2
6	10 OCDF	441.7428	47.60	384.915	1.138	0.000	0.021	0.52	0.89	YES	8.4
7	1 2378-TCDF	303.9016	26.14	533.487	0.877	0.016	0.016	0.71	0.77	NO	2.9
8	35 Total-tetrafurans	303.9016	25.91	0.000	0.877	0.000	0.007	1.29	0.77	YES	2.9
9	7 123789-HxCDF	373.8208	37.48	244.870	0.987	0.013	0.013	1.14	1.24	NO	3.4
10	8 1234678-HpCDF	407.7818	39.57	679.884	1.232	0.000	0.021	0.51	1.05	YES	11.6
11	39 Total-heptafurans	407.7818	39.54	0.000	1.223	0.000	0.008	0.23	1.05	YES	6.2
12	10 OCDF	441.7428	47.60	384.915	1.138	0.000	0.021	0.52	0.89	YES	8.4

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

PFK1

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
48	FUNCTION1 PFK	330.9792	21.25	0.000							0.7
48	FUNCTION1 PFK	330.9792	25.47	0.000							2.2
48	FUNCTION1 PFK	330.9792	25.24	0.000							2.6
48	FUNCTION1 PFK	330.9792	24.93	0.000							1.0
48	FUNCTION1 PFK	330.9792	24.38	0.000							4.9
48	FUNCTION1 PFK	330.9792	23.75	0.000							0.9
48	FUNCTION1 PFK	330.9792	23.69	0.000							1.0
48	FUNCTION1 PFK	330.9792	23.36	0.000							1.2
48	FUNCTION1 PFK	330.9792	23.19	0.000							2.4
48	FUNCTION1 PFK	330.9792	22.91	0.000							0.5
48	FUNCTION1 PFK	330.9792	22.81	0.000							2.4
48	FUNCTION1 PFK	330.9792	22.39	0.000							0.5
48	FUNCTION1 PFK	330.9792	22.25	0.000							1.1
48	FUNCTION1 PFK	330.9792	22.01	0.000							1.1
48	FUNCTION1 PFK	330.9792	21.76	0.000							4.4
48	FUNCTION1 PFK	330.9792	21.69	0.000							4.3
48	FUNCTION1 PFK	330.9792	21.33	0.000							1.5
48	FUNCTION1 PFK	330.9792	28.19	0.000							1.1
48	FUNCTION1 PFK	330.9792	28.11	0.000							1.5
48	FUNCTION1 PFK	330.9792	28.02	0.000							1.7
48	FUNCTION1 PFK	330.9792	27.89	0.000							1.0
48	FUNCTION1 PFK	330.9792	27.57	0.000							0.4
48	FUNCTION1 PFK	330.9792	27.38	0.000							0.3
48	FUNCTION1 PFK	330.9792	27.17	0.000							0.6
48	FUNCTION1 PFK	330.9792	26.74	0.000							0.8
48	FUNCTION1 PFK	330.9792	26.63	0.000							0.7
48	FUNCTION1 PFK	330.9792	26.38	0.000							2.1
48	FUNCTION1 PFK	330.9792	26.29	0.000							1.7
48	FUNCTION1 PFK	330.9792	25.62	0.000							2.1
48	FUNCTION1 PFK	330.9792	25.56	0.000							1.7

VR82: 00825

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
49	FUNCTION2 PFK	366.9792	28.45	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	28.40	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.57	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	30.49	0.000		0.000					2.6
49	FUNCTION2 PFK	366.9792	30.42	0.000		0.000					2.4
49	FUNCTION2 PFK	366.9792	30.32	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	29.80	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	29.61	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	29.44	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	29.39	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	29.25	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	29.16	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	29.03	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	28.98	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	28.94	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	28.70	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	28.66	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	28.53	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	31.92	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	31.56	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	31.06	0.000		0.000					3.3

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	FUNCTION3 PFK	380.9760	37.96	0.000		0.000					0.7
50	FUNCTION3 PFK	380.9760	37.12	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	36.67	0.000		0.000					0.6
50	FUNCTION3 PFK	380.9760	35.90	0.000		0.000					1.1
50	FUNCTION3 PFK	380.9760	35.45	0.000		0.000					0.7
50	FUNCTION3 PFK	380.9760	35.09	0.000		0.000					0.4
50	FUNCTION3 PFK	380.9760	34.79	0.000		0.000					0.4
50	FUNCTION3 PFK	380.9760	34.16	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	34.10	0.000		0.000					1.2

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld

Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time

Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
51	FUNCTION4 PFK	430.9728	38.71	0.000							1.6
51	FUNCTION4 PFK	430.9728	38.66	0.000							1.1
51	FUNCTION4 PFK	430.9728	44.12	0.000							0.5
51	FUNCTION4 PFK	430.9728	43.52	0.000							0.6
51	FUNCTION4 PFK	430.9728	43.12	0.000							1.7
51	FUNCTION4 PFK	430.9728	43.07	0.000							1.6
51	FUNCTION4 PFK	430.9728	42.39	0.000							0.6
51	FUNCTION4 PFK	430.9728	42.27	0.000							0.8
51	FUNCTION4 PFK	430.9728	42.08	0.000							1.4
51	FUNCTION4 PFK	430.9728	41.81	0.000							1.3
51	FUNCTION4 PFK	430.9728	41.59	0.000							0.5
51	FUNCTION4 PFK	430.9728	40.70	0.000							1.2
51	FUNCTION4 PFK	430.9728	40.07	0.000							0.9
51	FUNCTION4 PFK	430.9728	39.93	0.000							0.5
51	FUNCTION4 PFK	430.9728	39.50	0.000							0.6
51	FUNCTION4 PFK	430.9728	39.45	0.000							0.8
51	FUNCTION4 PFK	430.9728	38.87	0.000							1.2

VR82 : 00828

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	52 FUNCTION5 PFK	480.9696	46.50	0.000							0.8
2	52 FUNCTION5 PFK	480.9696	46.45	0.000							1.0
3	52 FUNCTION5 PFK	480.9696	46.42	0.000							0.7
4	52 FUNCTION5 PFK	480.9696	46.24	0.000							0.7
5	52 FUNCTION5 PFK	480.9696	46.03	0.000							0.6
6	52 FUNCTION5 PFK	480.9696	45.99	0.000							0.7
7	52 FUNCTION5 PFK	480.9696	45.76	0.000							1.3
8	52 FUNCTION5 PFK	480.9696	45.71	0.000							1.7
9	52 FUNCTION5 PFK	480.9696	45.60	0.000							0.7
10	52 FUNCTION5 PFK	480.9696	45.56	0.000							0.6
11	52 FUNCTION5 PFK	480.9696	45.40	0.000							0.6
12	52 FUNCTION5 PFK	480.9696	45.36	0.000							0.4
13	52 FUNCTION5 PFK	480.9696	45.23	0.000							0.8
14	52 FUNCTION5 PFK	480.9696	45.19	0.000							0.5
15	52 FUNCTION5 PFK	480.9696	45.14	0.000							0.6
16	52 FUNCTION5 PFK	480.9696	45.07	0.000							1.6
17	52 FUNCTION5 PFK	480.9696	48.49	0.000							1.3
18	52 FUNCTION5 PFK	480.9696	48.37	0.000							0.7
19	52 FUNCTION5 PFK	480.9696	48.34	0.000							1.6
20	52 FUNCTION5 PFK	480.9696	48.03	0.000							1.8
21	52 FUNCTION5 PFK	480.9696	47.97	0.000							1.7
22	52 FUNCTION5 PFK	480.9696	47.52	0.000							0.7
23	52 FUNCTION5 PFK	480.9696	47.33	0.000							1.0
24	52 FUNCTION5 PFK	480.9696	47.30	0.000							1.0
25	52 FUNCTION5 PFK	480.9696	47.05	0.000							1.2
26	52 FUNCTION5 PFK	480.9696	46.93	0.000							0.5
27	52 FUNCTION5 PFK	480.9696	46.89	0.000							1.7
28	52 FUNCTION5 PFK	480.9696	46.86	0.000							0.6
29	52 FUNCTION5 PFK	480.9696	46.80	0.000							0.7
30	52 FUNCTION5 PFK	480.9696	46.64	0.000							0.8
31	52 FUNCTION5 PFK	480.9696	46.60	0.000							0.6
32	52 FUNCTION5 PFK	480.9696	46.56	0.000							1.2
33	52 FUNCTION5 PFK	480.9696	48.99	0.000							0.3
34	52 FUNCTION5 PFK	480.9696	48.89	0.000							0.8
35	52 FUNCTION5 PFK	480.9696	48.77	0.000							1.4
36	52 FUNCTION5 PFK	480.9696	48.72	0.000							1.9
37	52 FUNCTION5 PFK	480.9696	48.65	0.000							1.3
38	52 FUNCTION5 PFK	480.9696	48.62	0.000							1.3

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
53	FUNCTION1 HXCD...	375.8364	26.44	0.000		0.000					4.6

VR02: 00829

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
 Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.11	0.000		0.000					1.8
2	54 FUNCTION1 HPCD...	409.7974	25.79	0.000		0.000					2.0
3	54 FUNCTION1 HPCD...	409.7974	24.30	0.000		0.000					1.3
4	54 FUNCTION1 HPCD...	409.7974	23.94	0.000		0.000					1.7
5	54 FUNCTION1 HPCD...	409.7974	23.84	0.000		0.000					1.9
6	54 FUNCTION1 HPCD...	409.7974	22.81	0.000		0.000					3.8
7	54 FUNCTION1 HPCD...	409.7974	22.13	0.000		0.000					1.4
8	54 FUNCTION1 HPCD...	409.7974	27.95	0.000		0.000					1.5
9	54 FUNCTION1 HPCD...	409.7974	26.59	0.000		0.000					1.5

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.77	0.000		0.000					2.5
2	55 FUNCTION2 HPCD...	409.7974	31.83	0.000		0.000					2.2
3	55 FUNCTION2 HPCD...	409.7974	31.74	0.000		0.000					1.4
4	55 FUNCTION2 HPCD...	409.7974	31.59	0.000		0.000					1.6
5	55 FUNCTION2 HPCD...	409.7974	31.01	0.000		0.000					1.8
6	55 FUNCTION2 HPCD...	409.7974	29.96	0.000		0.000					2.1
7	55 FUNCTION2 HPCD...	409.7974	29.55	0.000		0.000					2.1
8	55 FUNCTION2 HPCD...	409.7974	28.68	0.000		0.000					2.6

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS6

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	58 FUNCTION5 DCDPE	513.6775	46.01	0.000		0.000					28.6

VR62 : 00830

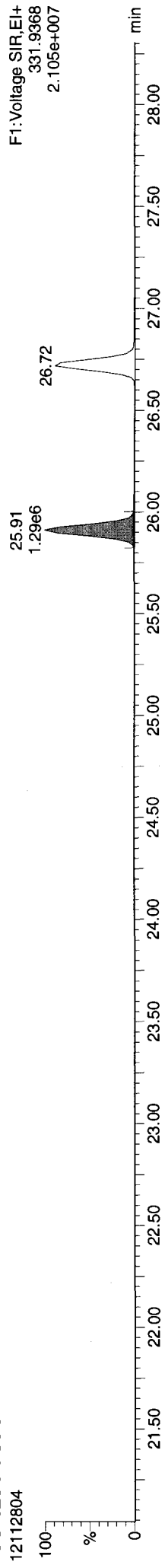
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

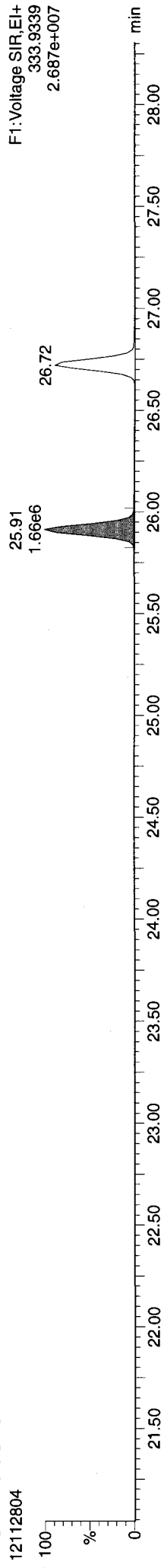
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Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

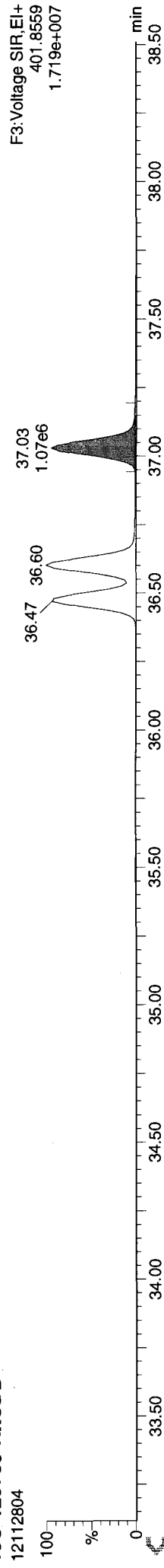
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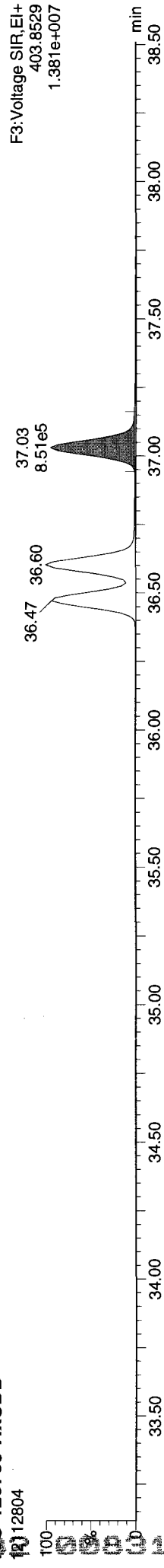
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13C-123789-HxCDD



13C-123789-HxCDD

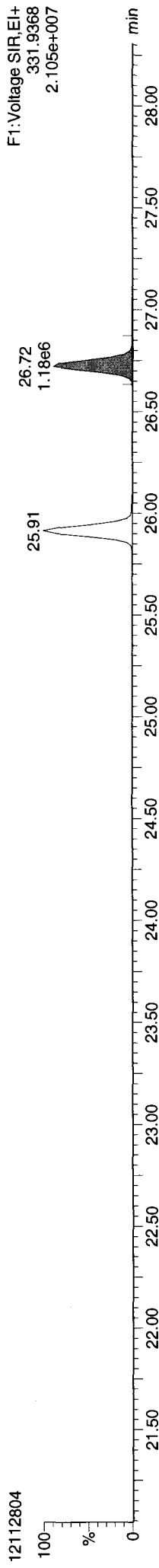


Quantify Sample Report MassLynx 4.1 SCN 714

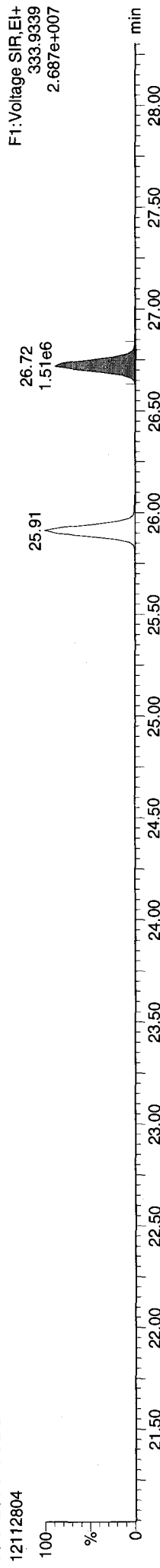
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Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

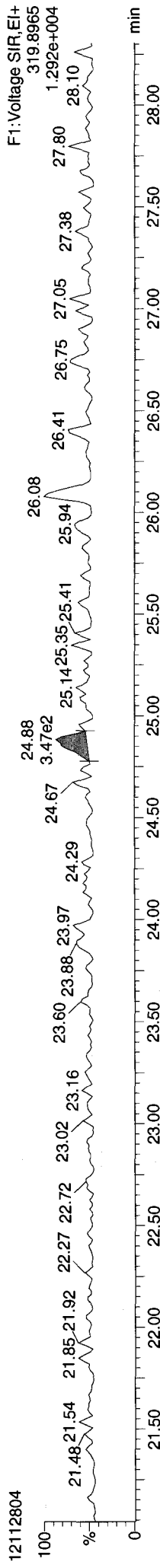
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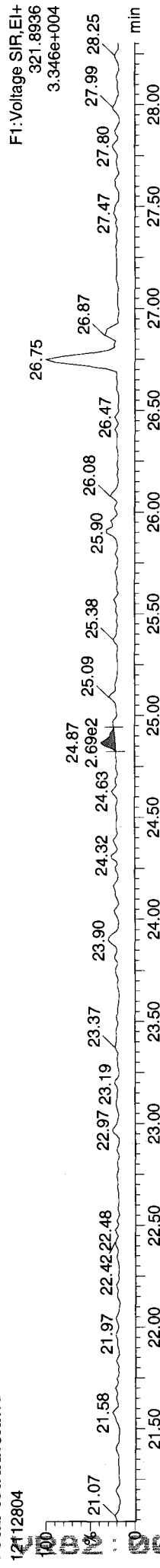
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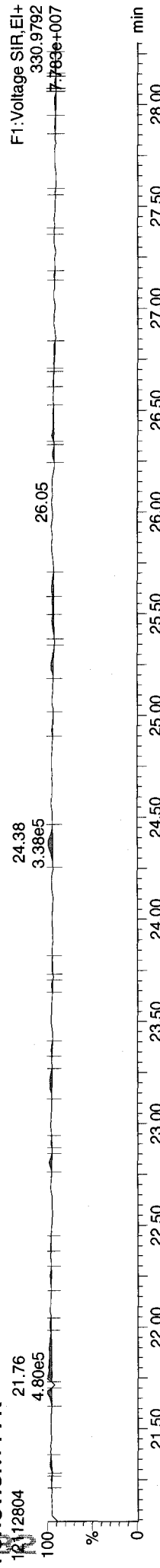
Total-tetradoxins



Total-tetradoxins



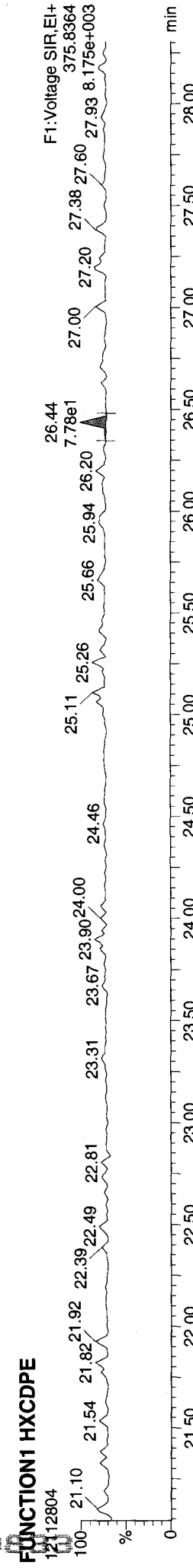
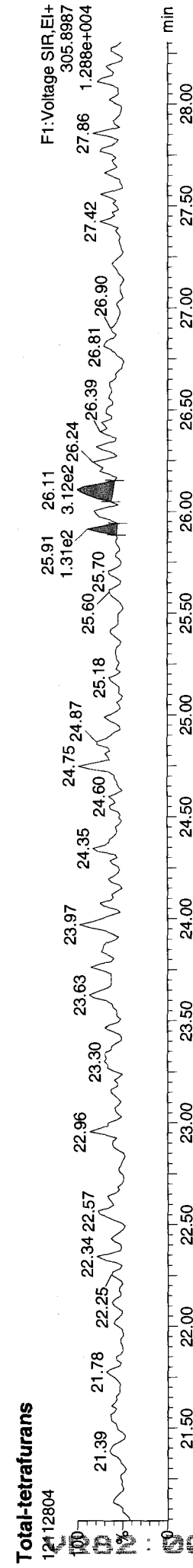
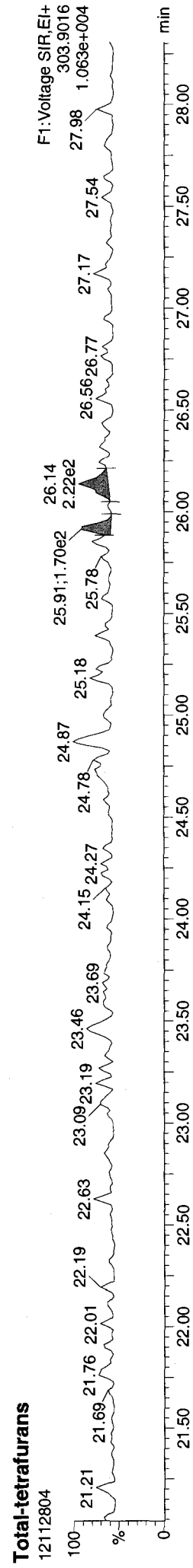
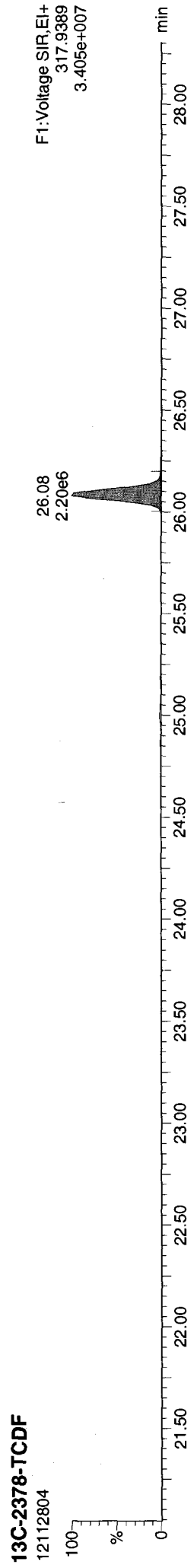
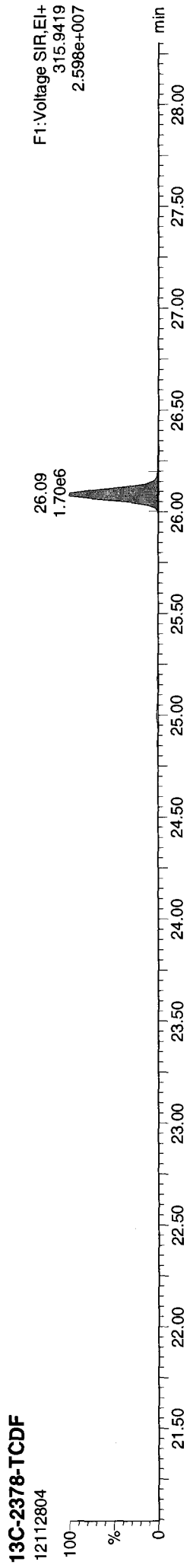
FUNCTION1 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld
Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

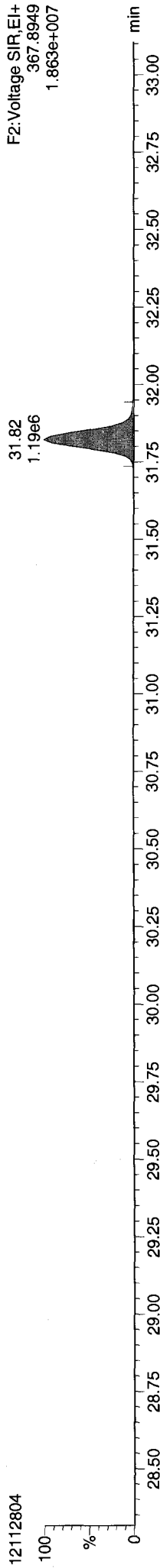


Quantify Sample Report MassLynx 4.1 SCN 714

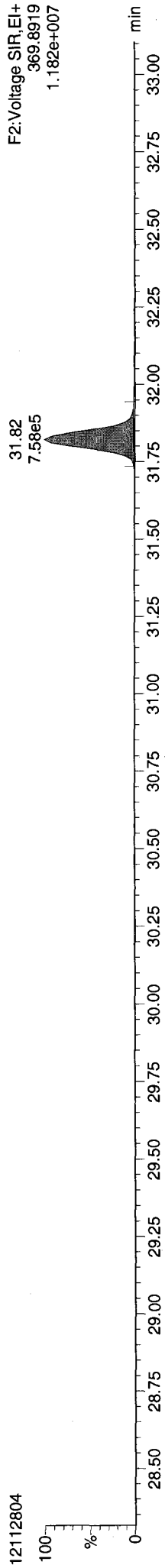
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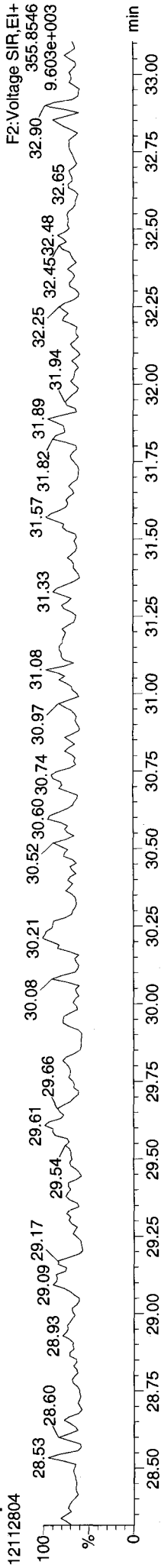
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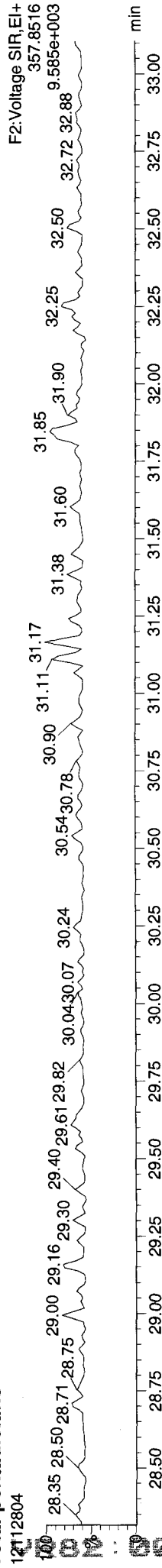
13C-12378-PeCDD



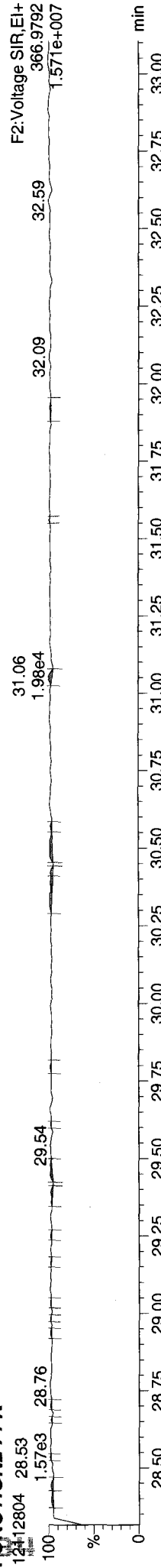
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

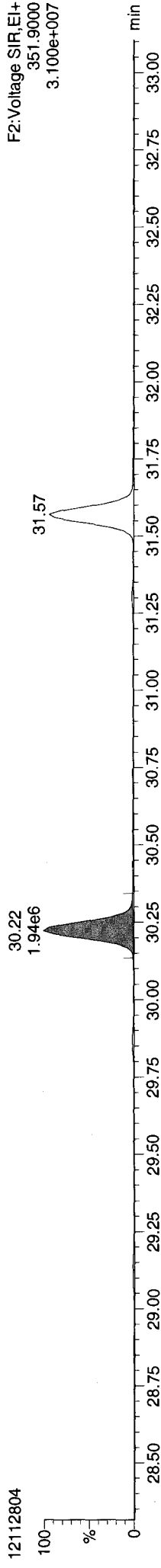


Quantify Sample Report MassLynx 4.1 SCN 714

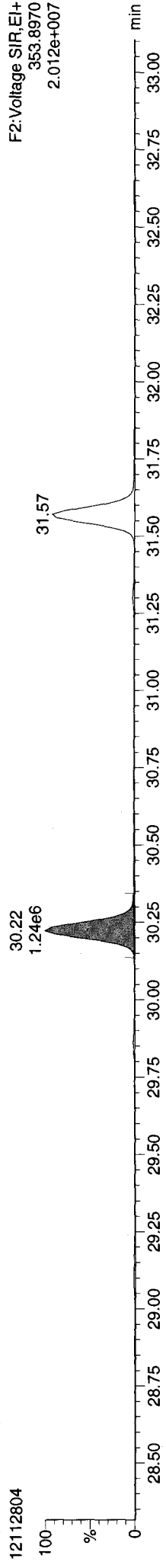
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Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

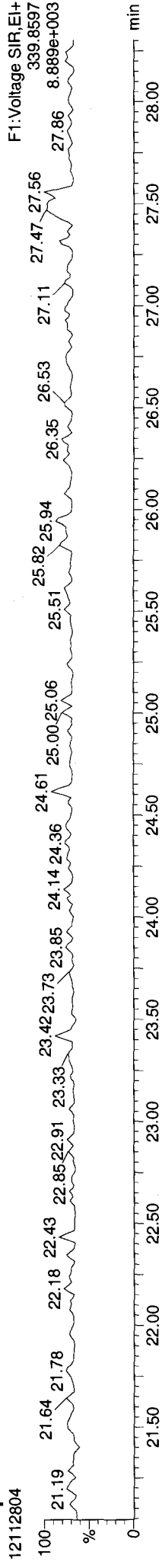
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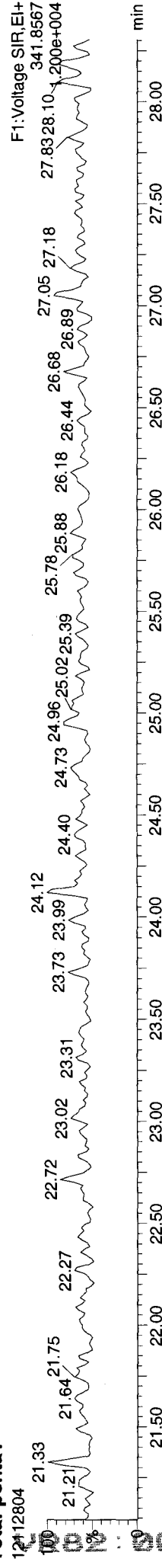
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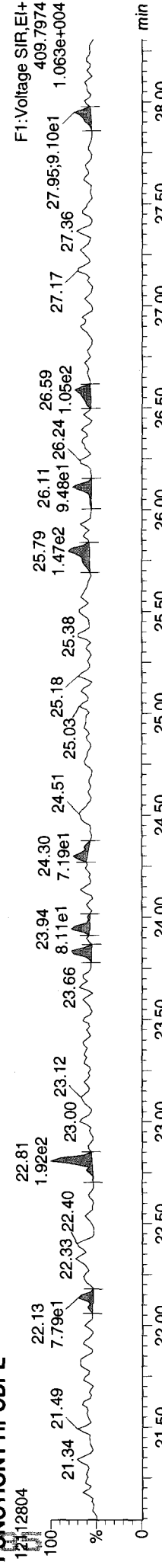
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Total-penta1



FUNCTION1 HPCDPE

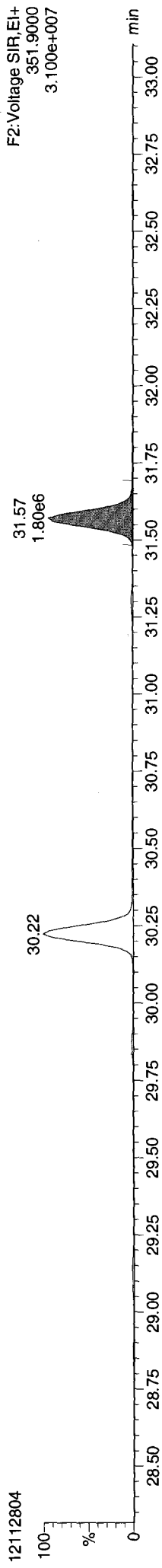


Quantify Sample Report MassLynx 4.1 SCN 714

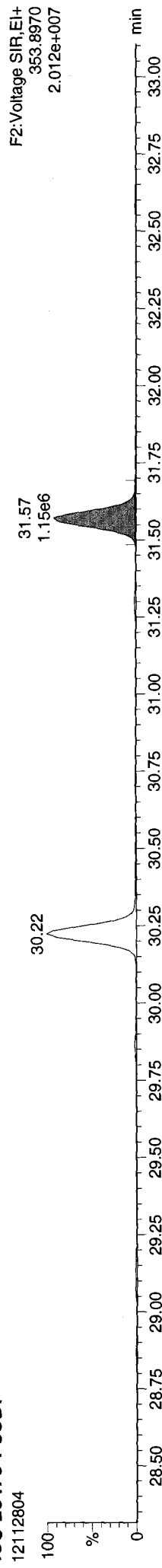
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Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

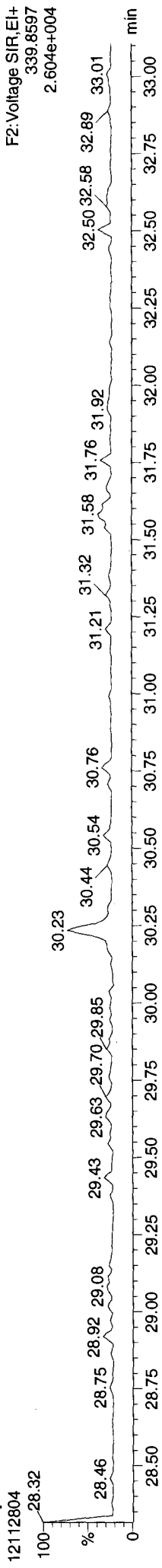
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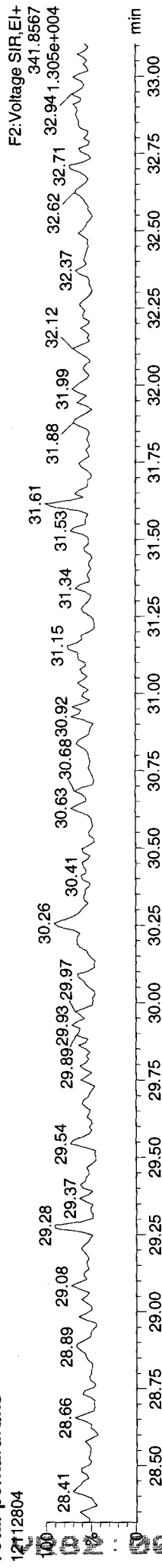
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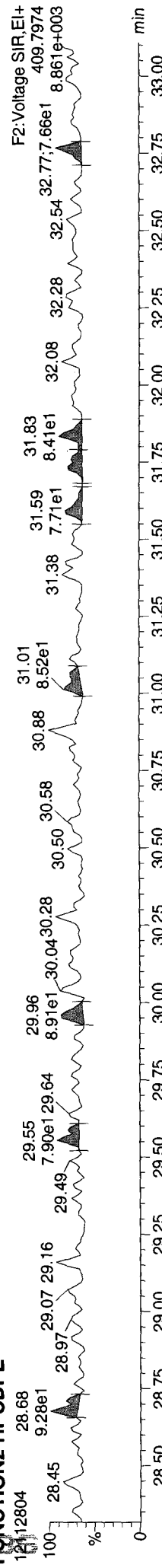
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

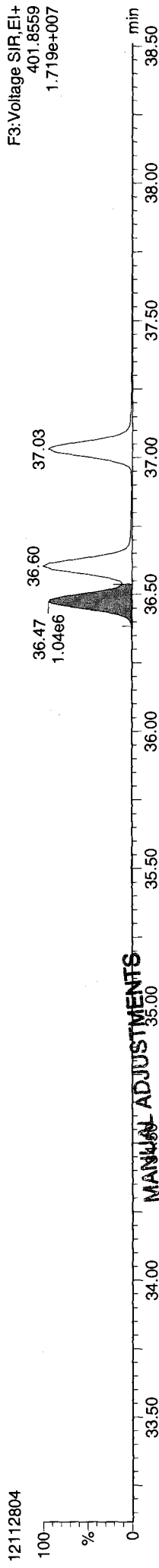


Quantify Sample Report MassLynx 4.1 SCN 714

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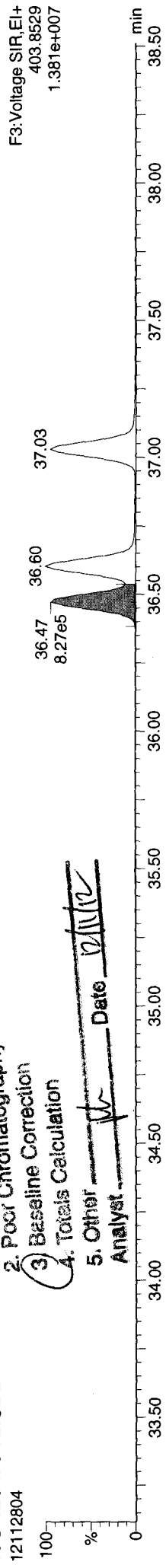
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13C-123478-HxCDD

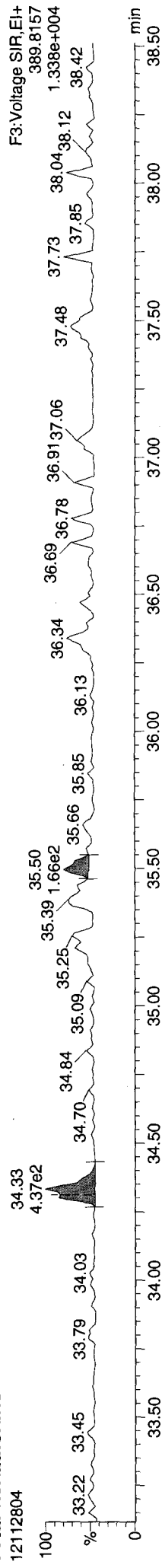


1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: [Signature] Date: 12/10/12

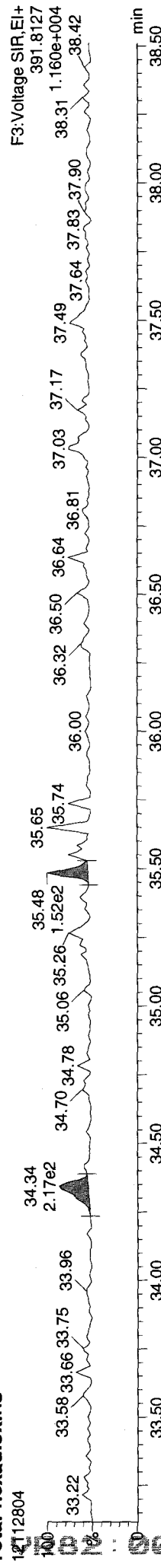
13C-123478-HxCDD



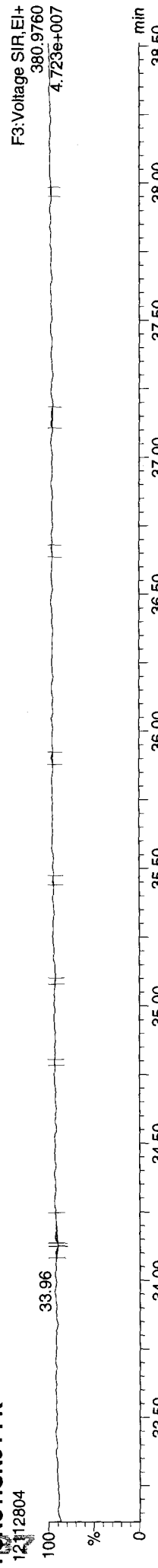
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



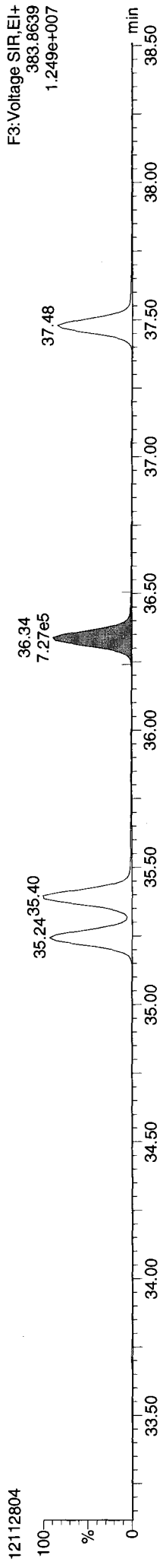
Dataset: P:\DIOXIN8290.PRO\121128MB.qld

Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time

Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

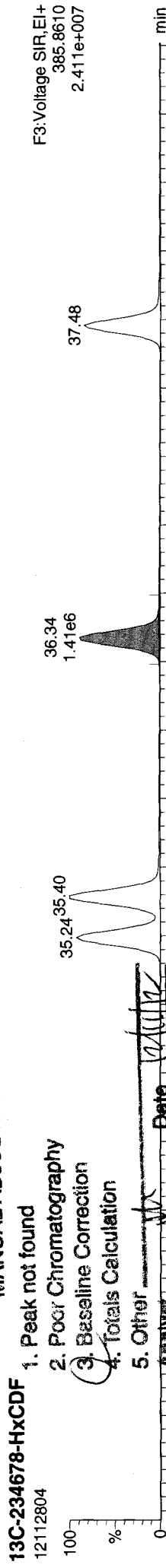
Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF

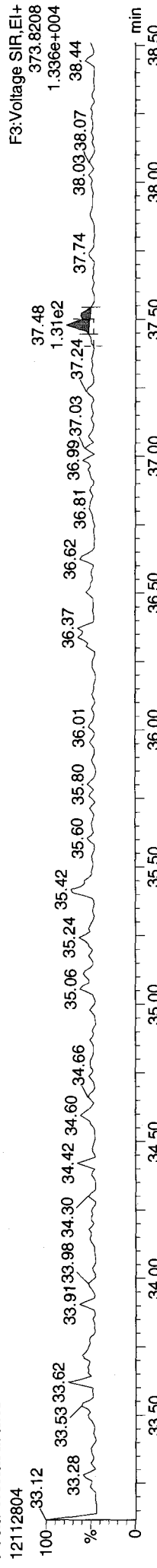


MANUAL ADJUSTMENTS

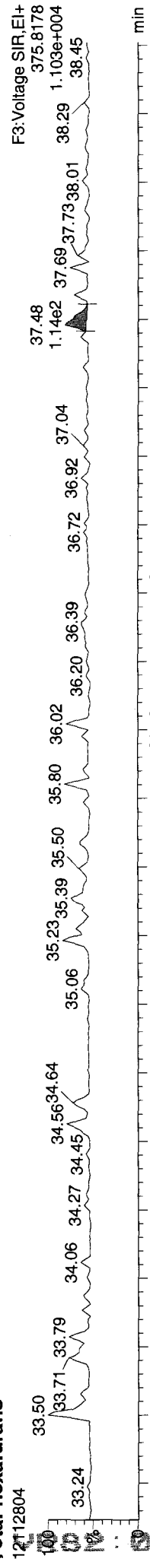
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other



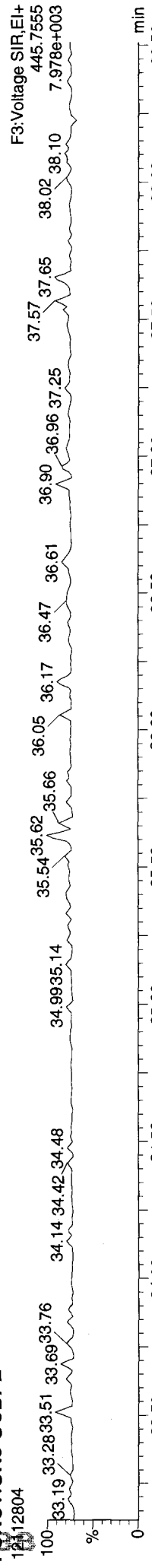
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



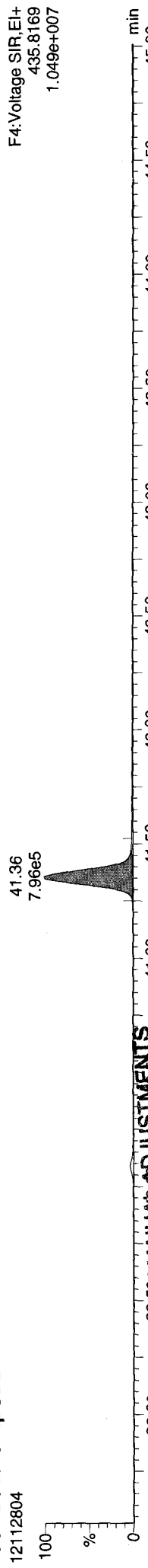
Dataset: P:\DIOXIN8290.PRO\121128MB.qld

Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time

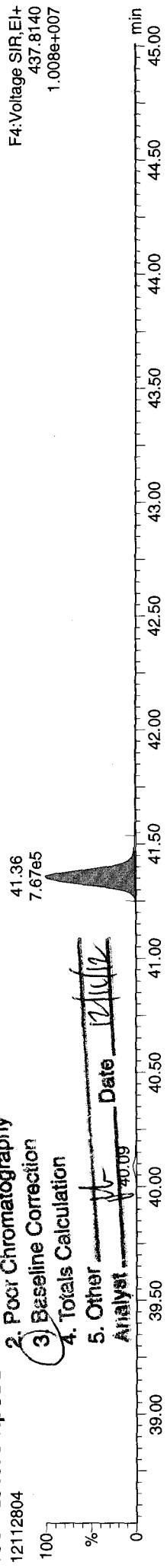
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

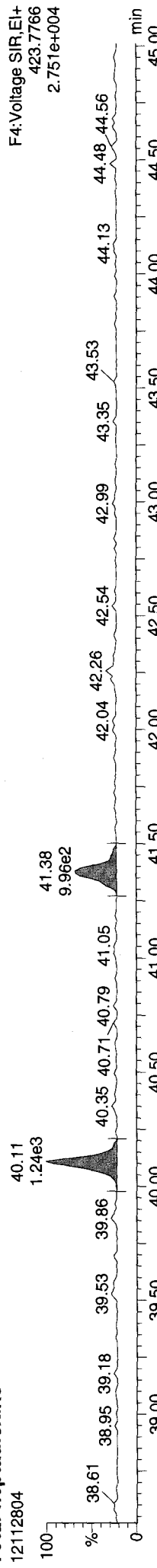


13C-1234678-HpCDD

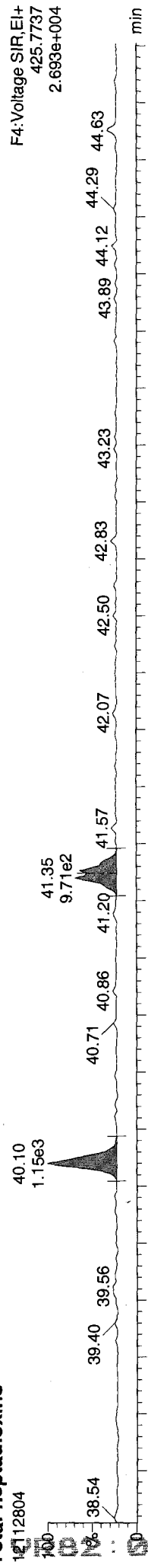


1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: [Signature] Date: 12/10/12

Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

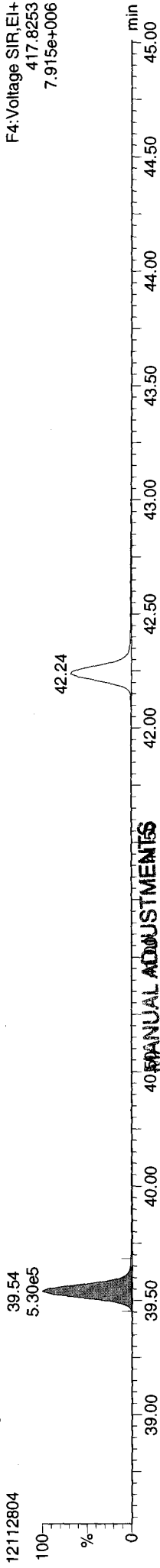


Quantify Sample Report MassLynx 4.1 SCN 714

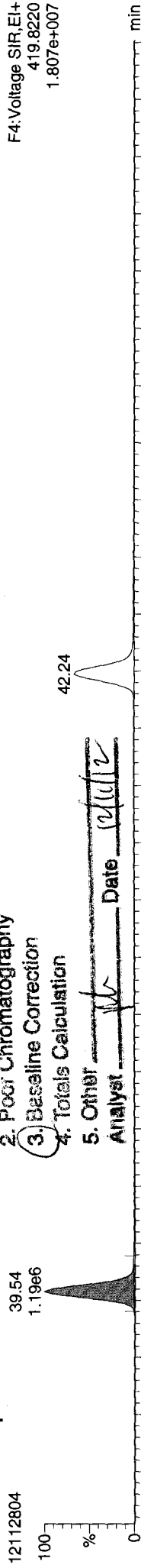
Dataset: P:\DIOXIN8290.PRO\121128MB.qld
Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF

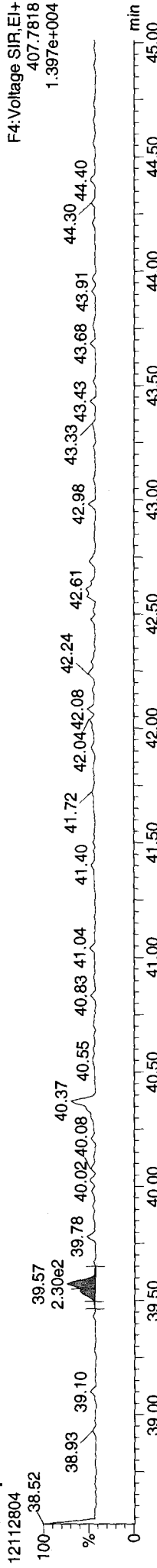


13C-1234678-HpCDF

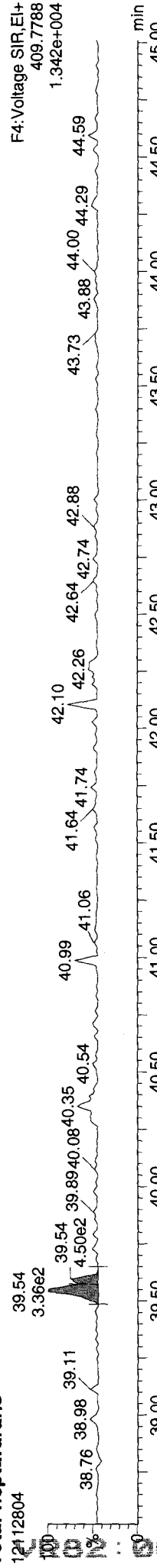


1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: 12/11/12

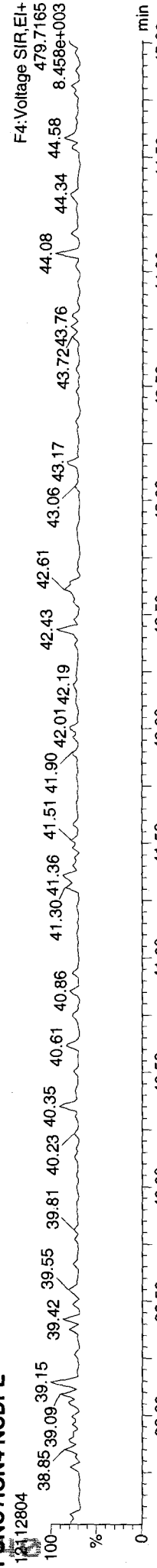
Total-heptafurans



Total-heptafurans



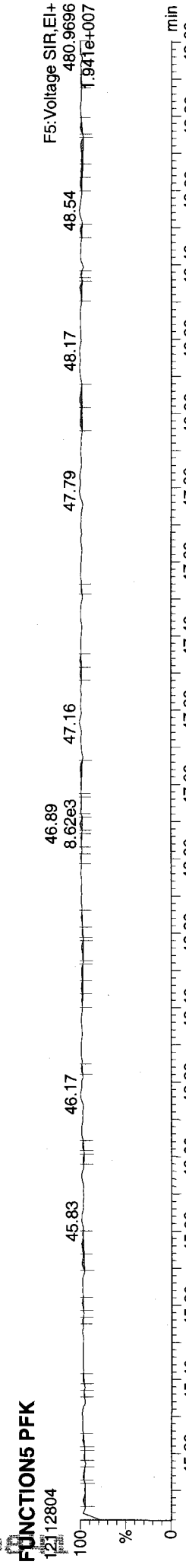
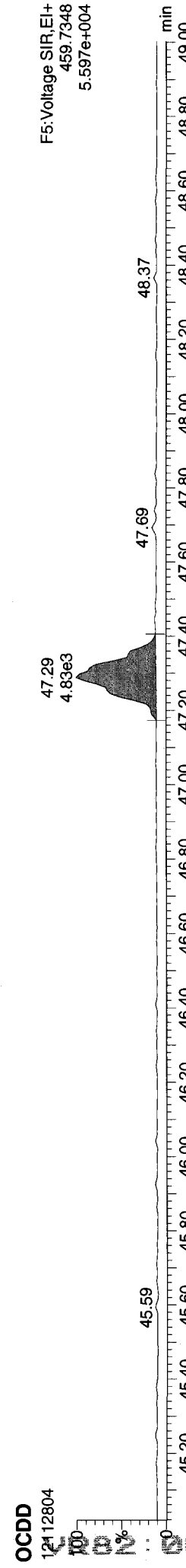
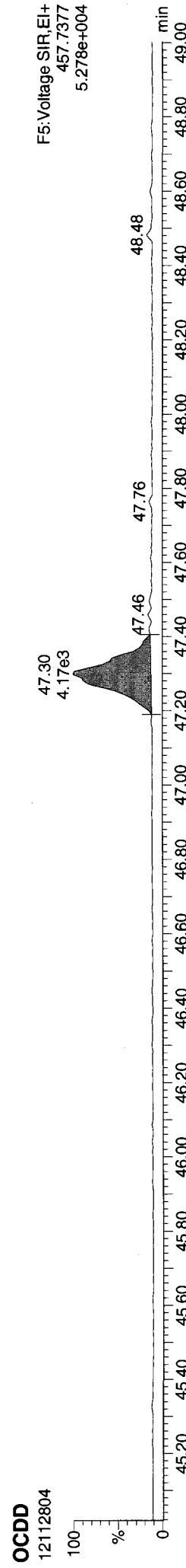
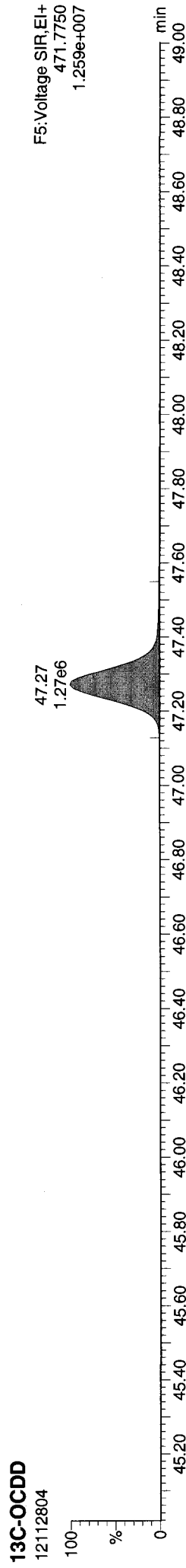
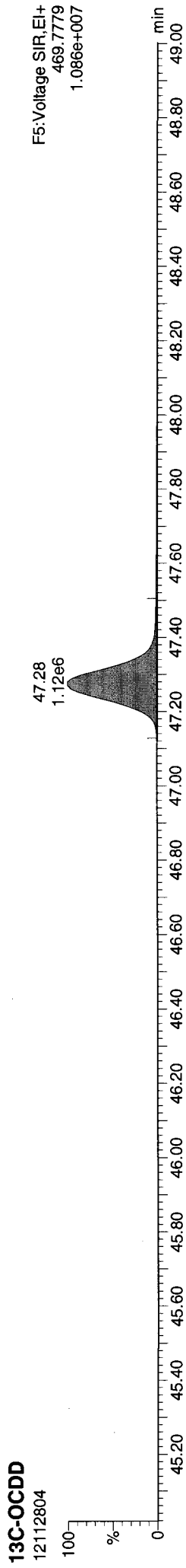
FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOX\IN8290.PRO\121128MB.qld
Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time
Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128MB.qld

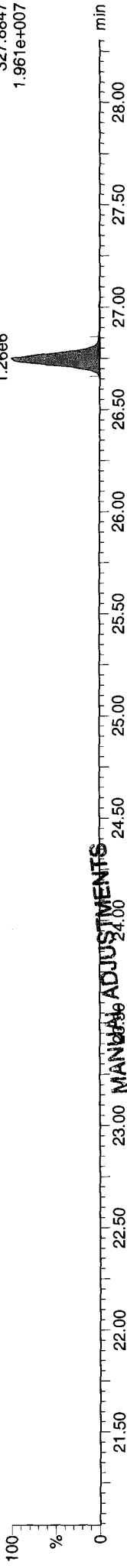
Last Altered: Monday, December 10, 2012 14:53:09 Pacific Standard Time

Printed: Monday, December 10, 2012 14:54:00 Pacific Standard Time

Name: 12112804, Date: 28-Nov-2012, Time: 12:05:16, ID: VR58MBS, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

12112804



OCDF

12112804

100%

45.02

45.23

45.63

45.92

46.11

46.18

46.24

46.46

46.53

46.64

46.83

46.98

47.12

47.18

47.50

47.53e2

47.75

47.90

48.28

48.37

48.56

48.72

48.81

48.95

49.00

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation

45.00 Other 46.34
 Analyst *[Signature]*
 Date 12/15/05

OCDF

12112804

100%

45.05

45.34

45.47

45.67

45.92

46.11

46.18

46.24

46.46

46.53

46.64

46.83

46.98

47.12

47.18

47.50

47.53e2

47.75

47.90

48.28

48.37

48.56

48.72

48.81

FUNCTION5 DCDPE

12112804

100%

45.11

45.64

45.75

46.20

46.53

46.80

47.41

47.66

47.87

48.05

48.30

48.63

48.80

48.80

49.00

F1: Voltage SIR, EI+

327.8847

1.961e+007

F5: Voltage SIR, EI+

441.7428

1.972e+004

F5: Voltage SIR, EI+

443.7399

48.82 1.040e+004

F5: Voltage SIR, EI+

513.6775

1.113e+004

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

pk 12/10/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	IonArea	IonArea	RFR	Ratio	Pred R	SN	Noise 1	Noise 2	Height	Height2	EMPC7	EMPC	PO
2378-TCDF	26.078	1.001	1.84e5	2.58e5	0.877	0.712	0.770	3592.1	812	1918	2.92e6	4.09e6	NO	11.074	11.074
12378-PeCDF	30.223	1.001	1.08e6	7.35e5	0.896	1.465	1.550	5005.7	3385	2701	1.69e7	1.16e7	NO	54.272	54.272
23478-PeCDF	31.571	1.001	1.03e6	7.15e5	0.926	1.442	1.550	4789.4	3385	2701	1.62e7	1.14e7	NO	54.121	54.121
123478-HxCDF	35.243	1.001	8.17e5	6.89e5	1.068	1.185	1.240	3572.4	3609	4129	1.29e7	1.07e7	NO	54.026	54.026
234678-HxCDF	36.339	1.001	8.22e5	6.97e5	1.037	1.180	1.240	3463.5	3609	4129	1.25e7	1.06e7	NO	59.393	59.393
123678-HxCDF	35.385	1.000	8.64e5	7.43e5	1.035	1.163	1.240	3697.4	3609	4129	1.33e7	1.17e7	NO	54.641	54.641
123789-HxCDF	37.479	1.001	6.74e5	5.69e5	0.987	1.185	1.240	2883.6	3609	4129	1.04e7	8.74e6	NO	54.353	54.353
1234678-HpCDF	39.540	1.001	7.38e5	7.49e5	1.232	0.985	1.050	4270.1	2553	2659	1.09e7	1.12e7	NO	59.154	59.154
1234789-HpCDF	42.236	1.000	5.38e5	5.50e5	1.215	0.978	1.050	2692.2	2553	2659	6.87e6	7.04e6	NO	54.955	54.955
OCDF	47.548	1.006	7.38e5	8.65e5	1.138	0.853	0.890	4466.2	1623	2052	7.25e6	8.58e6	NO	104.466	104.466
2378-TCDD	26.721	1.001	1.52e5	1.93e5	1.049	0.787	0.770	1991.9	1230	1144	2.45e6	3.07e6	NO	10.579	10.579
12378-PeCDD	31.823	1.001	7.57e5	4.85e5	0.998	1.559	1.550	4736.4	2525	1312	1.20e7	7.73e6	NO	53.728	53.728
123478-HxCDD	36.471	1.000	6.45e5	5.15e5	0.971	1.251	1.240	6751.7	1509	1789	1.02e7	8.15e6	NO	55.628	55.628
123678-HxCDD	36.602	1.001	6.39e5	5.08e5	0.918	1.257	1.240	6549.7	1509	1789	9.89e6	7.81e6	NO	53.529	53.529
123789-HxCDD	37.029	1.012	6.15e5	5.04e5	0.932	1.221	1.240	6159.6	1509	1789	9.30e6	7.69e6	NO	53.567	53.567
1234678-HpCDD	41.359	1.000	5.02e5	4.79e5	1.017	1.046	1.050	3152.8	2162	1815	6.82e6	6.51e6	NO	52.454	52.454
OCDD	47.270	1.000	6.82e5	7.68e5	1.008	0.888	0.890	3992.3	1722	2713	6.87e6	7.80e6	NO	106.635	106.635
13C-2378-TCDF	26.063	1.007	2.00e6	2.56e6	1.473	0.779	0.770	9880.9	3252	2157	3.21e7	4.12e7	NO	80.281	80.281
13C-12378-PeCDF	30.201	1.167	2.27e6	1.45e6	1.148	1.570	1.550	6099.6	5999	2346	3.66e7	2.32e7	NO	84.142	84.142
13C-23478-PeCDF	31.549	1.219	2.13e6	1.36e6	1.113	1.569	1.550	5698.5	5999	2346	3.42e7	2.19e7	NO	81.184	81.184
13C-123478-HxCDF	35.221	0.952	8.85e5	1.72e6	1.209	0.514	0.510	2953.6	4716	5492	1.39e7	2.73e7	NO	85.223	85.223
13C-123678-HxCDF	35.374	0.956	9.76e5	1.87e6	1.269	0.523	0.510	3285.8	4716	5492	1.55e7	2.90e7	NO	88.505	88.505
13C-234678-HxCDF	36.317	0.981	8.53e5	1.61e6	1.236	0.528	0.510	2775.1	4716	5492	1.31e7	2.45e7	NO	78.842	78.842
13C-123789-HxCDF	37.457	1.012	7.95e5	1.52e6	1.107	0.522	0.510	2645.3	4716	5492	1.25e7	2.40e7	NO	82.724	82.724
13C-1234678-HpCDF	39.518	1.068	6.32e5	1.41e6	1.051	0.449	0.440	3805.2	2448	2546	9.32e6	2.08e7	NO	76.645	76.645
13C-1234789-HpCDF	42.225	1.141	4.98e5	1.13e6	0.815	0.441	0.440	2597.5	2448	2546	6.36e6	1.45e7	NO	78.942	78.942
13C-1234-TCDD	25.884	0.000	1.69e6	2.16e6	1.000	0.781	0.770	7718.0	3449	2301	2.66e7	3.44e7	NO	100.000	100.000
13C-2378-TCDD	26.706	1.032	1.36e6	1.74e6	0.946	0.782	0.770	6256.3	3449	2301	2.16e7	2.74e7	NO	85.270	85.270
13C-12378-PeCDD	31.801	1.229	1.42e6	8.93e5	0.721	1.594	1.550	8297.1	2706	1412	2.25e7	1.40e7	NO	83.382	83.382
13C-123478-HxCDD	36.459	0.985	1.20e6	9.50e5	0.991	1.261	1.240	7139.6	2622	2198	1.87e7	1.49e7	NO	85.622	85.622
13C-123678-HxCDD	36.580	0.988	1.29e6	1.04e6	1.025	1.243	1.240	7491.3	2622	2198	1.96e7	1.59e7	NO	89.985	89.985
13C-1234678-HpCDD	41.337	1.117	9.45e5	8.94e5	0.866	1.058	1.050	4772.6	2686	2549	1.28e7	1.24e7	NO	83.868	83.868
13C-OCDD	47.252	1.277	1.28e6	1.42e6	0.769	0.904	0.890	4901.5	2618	2358	1.28e7	1.43e7	NO	138.479	138.479

Quantify Sample Summary Report MassLynx 4.1 SCN 714
 Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	pg
13C-123789-HxCDD	37.008	0.000	1.40e6	1.13e6	1.000	1.238	1.240	8100.1	2622	2198	2.12e7	1.74e7	NO	NO	100.000
Total-tetrafurans			1.90e5		0.877				812		3.01e6				11.683
Total-penta1			0.00e0						547		0.00e0				
Total-pentafurans			2.15e6		0.911				3385		3.40e7				111.328
Total-hexafurans			3.19e6		1.032				3609		4.93e7				223.240
Total-heptafurans			1.28e6		1.223				2553		1.79e7				114.678
Total-Furans			7.55e6		1.041				812		1.11e8				564.628
Total-tetra-dioxins			1.56e5		1.049				1230		2.51e6				10.869
Total-pentadi-dioxins			7.59e5		0.998				2525		1.20e7				53.894
Total-hexadi-dioxins			1.90e6		0.940				1509		2.94e7				162.799
Total-heptadi-dioxins			5.09e5		1.017				2162		6.93e6				53.277
Total-Dioxins			4.01e6		0.985				1230		5.77e7				387.474
Total-TEQ			1.16e7						1230		1.69e8				952.102
37CL-2378-TCDD	26.721	1.032	1.45e6		1.044			13756.3	1693		2.33e7				36.160
FUNCTION1 PFK			1.99e6						785616		3.98e7				
FUNCTION2 PFK			0.00e0						220153		0.00e0				0.000
FUNCTION3 PFK			9.83e5						614714		2.44e7				
FUNCTION4 PFK			5.14e5						394841		1.30e7				
FUNCTION5 PFK			1.24e4						295621		6.39e5				
FUNCTION1 HXCDPE			1.73e2						405		4.17e3				0.000
FUNCTION1 HPCDPE			7.60e2						849		1.61e4				0.000
FUNCTION2 HPCDPE			5.03e2						1181		1.60e4				0.000
FUNCTION3 OCDPE			0.00e0						333		0.00e0				0.000
FUNCTION4 NCDPE			0.00e0						646		0.00e0				0.000
FUNCTION5 DCDPE			0.00e0						548		0.00e0				0.000

12/10/2012 14:38:05

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
35	Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.014	0.53	0.77	YES	7.9
1	2378-TCDF	303.9016	26.08	442424.250	0.877	11.074	11.074	0.71	0.77	NO	3592.1
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.024	1.33	0.77	YES	13.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.098	0.58	0.77	YES	31.3
35	Total-tetrafurans	303.9016	24.99	13303.211	0.877	0.333	0.333	0.71	0.77	NO	109.1
35	Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.123	0.62	0.77	YES	36.0
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.017	1.17	0.77	YES	14.5

PP

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1											

PF

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
37	Total-pentafurans	339.8597	29.14	18070.950	0.911	0.550	0.550	1.39	1.55	NO	50.0
37	Total-pentafurans	339.8597	29.08	9581.903	0.911	0.292	0.292	1.50	1.55	NO	31.9
37	Total-pentafurans	339.8597	32.59	13973.936	0.911	0.426	0.426	1.43	1.55	NO	36.2
37	Total-pentafurans	339.8597	31.81	1446.058	0.911	0.044	0.044	1.40	1.55	NO	3.7
3	23478-PeCDF	339.8597	31.57	1745615.438	0.926	54.121	54.121	1.44	1.55	NO	4789.4
37	Total-pentafurans	339.8597	31.31	2672.482	0.911	0.081	0.081	1.71	1.55	NO	9.9
37	Total-pentafurans	339.8597	30.54	0.000	0.911	0.000	0.034	1.25	1.55	YES	5.3
37	Total-pentafurans	339.8597	30.42	35810.964	0.911	1.091	1.091	1.36	1.55	NO	101.8
2	12378-PeCDF	339.8597	30.22	1811030.750	0.896	54.272	54.272	1.46	1.55	NO	5005.7
37	Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.416	1.31	1.55	YES	40.7

HF

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
5	234678-HxCDF	373.8208	36.34	1518946.813	1.037	59.393	59.393	1.18	1.24	NO	3463.5
38	Total-hexafurans	373.8208	35.97	0.000	1.032	0.000	0.030	0.81	1.24	YES	3.7
6	123678-HxCDF	373.8208	35.39	1606990.751	1.035	54.641	54.641	1.16	1.24	NO	3697.4
4	123478-HxCDF	373.8208	35.24	1505449.625	1.068	54.026	54.026	1.19	1.24	NO	3572.4
38	Total-hexafurans	373.8208	35.07	2851.716	1.032	0.108	0.108	1.26	1.24	NO	7.6
38	Total-hexafurans	373.8208	33.72	12138.985	1.032	0.460	0.460	1.11	1.24	NO	25.3
38	Total-hexafurans	373.8208	33.52	5748.282	1.032	0.218	0.218	1.12	1.24	NO	12.9
7	123789-HxCDF	373.8208	37.48	1243026.750	0.987	54.353	54.353	1.18	1.24	NO	2883.6
38	Total-hexafurans	373.8208	36.60	0.000	1.032	0.000	0.011	0.51	1.24	YES	0.7

HPF

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
9	1234789-HpCDF	407.7818	42.24	1087254.126	1.215	54.955	54.955	0.98	1.05	NO	2692.2
39	Total-heptafurans	407.7818	40.33	7131.141	1.223	0.318	0.318	0.95	1.05	NO	21.0
39	Total-heptafurans	407.7818	40.03	5639.528	1.223	0.251	0.251	0.91	1.05	NO	16.4
8	1234678-HpCDF	407.7818	39.54	1486366.626	1.232	59.154	59.154	0.99	1.05	NO	4270.1

VRB2: 00045

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.014	0.53	0.77	YES	7.9
2	1 2378-TCDF	303.9016	26.08	442424.250	0.877	11.074	11.074	0.71	0.77	NO	3592.1
3	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.024	1.33	0.77	YES	13.9
4	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.098	0.58	0.77	YES	31.3
5	35 Total-tetrafurans	303.9016	24.99	13303.211	0.877	0.333	0.333	0.71	0.77	NO	109.1
6	35 Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.123	0.62	0.77	YES	36.0
7	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.017	1.17	0.77	YES	14.5
8	37 Total-pentafurans	339.8597	29.14	18070.950	0.911	0.550	0.550	1.39	1.55	NO	50.0
9	37 Total-pentafurans	339.8597	29.08	9581.903	0.911	0.292	0.292	1.50	1.55	NO	31.9
10	37 Total-pentafurans	339.8597	32.59	13973.936	0.911	0.426	0.426	1.43	1.55	NO	36.2
11	37 Total-pentafurans	339.8597	31.81	1446.058	0.911	0.044	0.044	1.40	1.55	NO	3.7
12	3 23478-PeCDF	339.8597	31.57	1745615.438	0.926	54.121	54.121	1.44	1.55	NO	4789.4
13	37 Total-pentafurans	339.8597	31.31	2672.482	0.911	0.081	0.081	1.71	1.55	NO	9.9
14	37 Total-pentafurans	339.8597	30.54	0.000	0.911	0.000	0.034	1.25	1.55	YES	5.3
15	37 Total-pentafurans	339.8597	30.42	35810.964	0.911	1.091	1.091	1.36	1.55	NO	101.8
16	2 12378-PeCDF	339.8597	30.22	1811030.750	0.896	54.272	54.272	1.46	1.55	NO	5005.7
17	37 Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.416	1.31	1.55	YES	40.7
18	5 234678-HxCDF	373.8208	36.34	1518946.813	1.037	59.393	59.393	1.18	1.24	NO	3463.5
19	38 Total-hexafurans	373.8208	35.97	0.000	1.032	0.000	0.030	0.81	1.24	YES	3.7
20	6 123678-HxCDF	373.8208	35.39	1606990.751	1.035	54.641	54.641	1.16	1.24	NO	3697.4
21	4 123478-HxCDF	373.8208	35.24	1505449.625	1.068	54.026	54.026	1.19	1.24	NO	3572.4
22	38 Total-hexafurans	373.8208	35.07	2851.716	1.032	0.108	0.108	1.26	1.24	NO	7.6
23	38 Total-hexafurans	373.8208	33.72	12138.985	1.032	0.460	0.460	1.11	1.24	NO	25.3
24	38 Total-hexafurans	373.8208	33.52	5748.282	1.032	0.218	0.218	1.12	1.24	NO	12.9
25	7 123789-HxCDF	373.8208	37.48	1243026.750	0.987	54.353	54.353	1.18	1.24	NO	2883.6
26	38 Total-hexafurans	373.8208	36.60	0.000	1.032	0.000	0.011	0.51	1.24	YES	0.7
27	9 1234789-HpCDF	407.7818	42.24	1087254.126	1.215	54.955	54.955	0.98	1.05	NO	2692.2
28	39 Total-heptafurans	407.7818	40.33	7131.141	1.223	0.318	0.318	0.95	1.05	NO	21.0
29	39 Total-heptafurans	407.7818	40.03	5639.528	1.223	0.251	0.251	0.91	1.05	NO	16.4
30	8 1234678-HpCDF	407.7818	39.54	1486366.626	1.232	59.154	59.154	0.99	1.05	NO	4270.1
31	10 OCDF	441.7428	47.55	1602295.125	1.138	104.466	104....	0.85	0.89	NO	4466.2

TD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	11 2378-TCDD	319.8965	26.72	345083.860	1.049	10.579	10.579	0.79	0.77	NO	1991.9
2	41 Total-tetradiioxins	319.8965	26.33	9460.865	1.049	0.290	0.290	0.68	0.77	NO	46.9
3	41 Total-tetradiioxins	319.8965	25.90	0.000	1.049	0.000	0.013	0.98	0.77	YES	3.6
4	41 Total-tetradiioxins	319.8965	25.59	0.000	1.049	0.000	0.011	1.94	0.77	YES	4.9
5	41 Total-tetradiioxins	319.8965	25.35	0.000	1.049	0.000	0.038	0.56	0.77	YES	5.6
6	41 Total-tetradiioxins	319.8965	23.87	0.000	1.049	0.000	0.015	0.45	0.77	YES	3.6

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.019	5.59	1.55	YES	6.1
2	42 Total-pentadioxins	355.8546	32.12	0.000	0.998	0.000	0.009	4.84	1.55	YES	3.7
3	12 12378-PeCDD	355.8546	31.82	1242254.782	0.998	53.728	53.728	1.56	1.55	NO	4736.4
4	42 Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.078	1.09	1.55	YES	6.8
5	42 Total-pentadioxins	355.8546	30.58	1446.482	0.998	0.063	0.063	1.50	1.55	NO	5.0
6	42 Total-pentadioxins	355.8546	30.44	0.000	0.998	0.000	0.088	1.22	1.55	YES	8.8
7	42 Total-pentadioxins	355.8546	30.23	2386.907	0.998	0.103	0.103	1.64	1.55	NO	8.3

HD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	35.51	1597.949	0.940	0.076	0.076	1.19	1.24	NO	8.3
2	43 Total-hexadioxins	389.8157	35.44	0.000	0.940	0.000	0.029	0.45	1.24	YES	6.2
3	15 123789-HxCDD	389.8157	37.03	1119327.344	0.932	53.567	53.567	1.22	1.24	NO	6159.6
4	43 Total-hexadioxins	389.8157	36.76	0.000	0.940	0.000	0.044	5.26	1.24	YES	28.8
5	14 123678-HxCDD	389.8157	36.60	1147276.844	0.918	53.529	53.529	1.26	1.24	NO	6549.7
6	13 123478-HxCDD	389.8157	36.47	1159980.000	0.971	55.628	55.628	1.25	1.24	NO	6751.7

HPD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.36	981017.937	1.017	52.454	52.454	1.05	1.05	NO	3152.8
2	44 Total-heptadioxins	423.7766	40.09	15393.338	1.017	0.823	0.823	0.95	1.05	NO	54.8

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	11 2378-TCDD	319.8965	26.72	345083.860	1.049	10.579	10.579	0.79	0.77	NO	1991.9
2	41 Total-tetradioxins	319.8965	26.33	9460.865	1.049	0.290	0.290	0.68	0.77	NO	46.9
3	41 Total-tetradioxins	319.8965	25.90	0.000	1.049	0.000	0.013	0.98	0.77	YES	3.6
4	41 Total-tetradioxins	319.8965	25.59	0.000	1.049	0.000	0.011	1.94	0.77	YES	4.9
5	41 Total-tetradioxins	319.8965	25.35	0.000	1.049	0.000	0.038	0.56	0.77	YES	5.6
6	41 Total-tetradioxins	319.8965	23.87	0.000	1.049	0.000	0.015	0.45	0.77	YES	3.6
7	42 Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.019	5.59	1.55	YES	6.1
8	42 Total-pentadioxins	355.8546	32.12	0.000	0.998	0.000	0.009	4.84	1.55	YES	3.7
9	12 12378-PeCDD	355.8546	31.82	1242254.782	0.998	53.728	53.728	1.56	1.55	NO	4736.4
10	42 Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.078	1.09	1.55	YES	6.8
11	42 Total-pentadioxins	355.8546	30.58	1446.482	0.998	0.063	0.063	1.50	1.55	NO	5.0
12	42 Total-pentadioxins	355.8546	30.44	0.000	0.998	0.000	0.088	1.22	1.55	YES	8.8
13	42 Total-pentadioxins	355.8546	30.23	2386.907	0.998	0.103	0.103	1.64	1.55	NO	8.3
14	43 Total-hexadioxins	389.8157	35.51	1597.949	0.940	0.076	0.076	1.19	1.24	NO	8.3
15	43 Total-hexadioxins	389.8157	35.44	0.000	0.940	0.000	0.029	0.45	1.24	YES	6.2
16	15 123789-HxCDD	389.8157	37.03	1119327.344	0.932	53.567	53.567	1.22	1.24	NO	6159.6
17	43 Total-hexadioxins	389.8157	36.76	0.000	0.940	0.000	0.044	5.26	1.24	YES	28.8
18	14 123678-HxCDD	389.8157	36.60	1147276.844	0.918	53.529	53.529	1.26	1.24	NO	6549.7
19	13 123478-HxCDD	389.8157	36.47	1159980.000	0.971	55.628	55.628	1.25	1.24	NO	6751.7
20	16 1234678-HpCDD	423.7766	41.36	981017.937	1.017	52.454	52.454	1.05	1.05	NO	3152.8
21	44 Total-heptadioxins	423.7766	40.09	15393.338	1.017	0.823	0.823	0.95	1.05	NO	54.8
22	17 OCDD	457.7377	47.27	1449805.188	1.008	106.635	106....	0.89	0.89	NO	3992.3

VR02: 00847

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
35	Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.014	0.53	0.77	YES	7.9
1	2378-TCDF	303.9016	26.08	442424.250	0.877	11.074	11.074	0.71	0.77	NO	3592.1
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.024	1.33	0.77	YES	13.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.098	0.58	0.77	YES	31.3
35	Total-tetrafurans	303.9016	24.99	13303.211	0.877	0.333	0.333	0.71	0.77	NO	109.1
35	Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.123	0.62	0.77	YES	36.0
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.017	1.17	0.77	YES	14.5
37	Total-pentafurans	339.8597	29.14	18070.950	0.911	0.550	0.550	1.39	1.55	NO	50.0
37	Total-pentafurans	339.8597	29.08	9581.903	0.911	0.292	0.292	1.50	1.55	NO	31.9
37	Total-pentafurans	339.8597	32.59	13973.936	0.911	0.426	0.426	1.43	1.55	NO	36.2
37	Total-pentafurans	339.8597	31.81	1446.058	0.911	0.044	0.044	1.40	1.55	NO	3.7
3	23478-PeCDF	339.8597	31.57	1745615.438	0.926	54.121	54.121	1.44	1.55	NO	4789.4
37	Total-pentafurans	339.8597	31.31	2672.482	0.911	0.081	0.081	1.71	1.55	NO	9.9
37	Total-pentafurans	339.8597	30.54	0.000	0.911	0.000	0.034	1.25	1.55	YES	5.3
37	Total-pentafurans	339.8597	30.42	35810.964	0.911	1.091	1.091	1.36	1.55	NO	101.8
2	12378-PeCDF	339.8597	30.22	1811030.750	0.896	54.272	54.272	1.46	1.55	NO	5005.7
37	Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.416	1.31	1.55	YES	40.7
5	234678-HxCDF	373.8208	36.34	1518946.813	1.037	59.393	59.393	1.18	1.24	NO	3463.5
38	Total-hexafurans	373.8208	35.97	0.000	1.032	0.000	0.030	0.81	1.24	YES	3.7
6	123678-HxCDF	373.8208	35.39	1606990.751	1.035	54.641	54.641	1.16	1.24	NO	3697.4
4	123478-HxCDF	373.8208	35.24	1505449.625	1.068	54.026	54.026	1.19	1.24	NO	3572.4
38	Total-hexafurans	373.8208	35.07	2851.716	1.032	0.108	0.108	1.26	1.24	NO	7.6
38	Total-hexafurans	373.8208	33.72	12138.985	1.032	0.460	0.460	1.11	1.24	NO	25.3
38	Total-hexafurans	373.8208	33.52	5748.282	1.032	0.218	0.218	1.12	1.24	NO	12.9
7	123789-HxCDF	373.8208	37.48	1243026.750	0.987	54.353	54.353	1.18	1.24	NO	2883.6
38	Total-hexafurans	373.8208	36.60	0.000	1.032	0.000	0.011	0.51	1.24	YES	0.7
9	1234789-HpCDF	407.7818	42.24	1087254.126	1.215	54.955	54.955	0.98	1.05	NO	2692.2
39	Total-heptafurans	407.7818	40.33	7131.141	1.223	0.318	0.318	0.95	1.05	NO	21.0
39	Total-heptafurans	407.7818	40.03	5639.528	1.223	0.251	0.251	0.91	1.05	NO	16.4
8	1234678-HpCDF	407.7818	39.54	1486366.626	1.232	59.154	59.154	0.99	1.05	NO	4270.1
10	OCDF	441.7428	47.55	1602295.125	1.138	104.466	104.466	0.85	0.89	NO	4466.2
11	2378-TCDD	319.8965	26.72	345083.860	1.049	10.579	10.579	0.79	0.77	NO	1991.9
41	Total-tetradioxins	319.8965	26.33	9460.865	1.049	0.290	0.290	0.68	0.77	NO	46.9
41	Total-tetradioxins	319.8965	25.90	0.000	1.049	0.000	0.013	0.98	0.77	YES	3.6
41	Total-tetradioxins	319.8965	25.59	0.000	1.049	0.000	0.011	1.94	0.77	YES	4.9
41	Total-tetradioxins	319.8965	25.35	0.000	1.049	0.000	0.038	0.56	0.77	YES	5.6
41	Total-tetradioxins	319.8965	23.87	0.000	1.049	0.000	0.015	0.45	0.77	YES	3.6
42	Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.019	5.59	1.55	YES	6.1
42	Total-pentadioxins	355.8546	32.12	0.000	0.998	0.000	0.009	4.84	1.55	YES	3.7
12	12378-PeCDD	355.8546	31.82	1242254.782	0.998	53.728	53.728	1.56	1.55	NO	4736.4
42	Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.078	1.09	1.55	YES	6.8
42	Total-pentadioxins	355.8546	30.58	1446.482	0.998	0.063	0.063	1.50	1.55	NO	5.0
42	Total-pentadioxins	355.8546	30.44	0.000	0.998	0.000	0.088	1.22	1.55	YES	8.8
42	Total-pentadioxins	355.8546	30.23	2386.907	0.998	0.103	0.103	1.64	1.55	NO	8.3
43	Total-hexadioxins	389.8157	35.51	1597.949	0.940	0.076	0.076	1.19	1.24	NO	8.3
43	Total-hexadioxins	389.8157	35.44	0.000	0.940	0.000	0.029	0.45	1.24	YES	6.2
15	123789-HxCDD	389.8157	37.03	1119327.344	0.932	53.567	53.567	1.22	1.24	NO	6159.6
43	Total-hexadioxins	389.8157	36.76	0.000	0.940	0.000	0.044	5.26	1.24	YES	28.8
14	123678-HxCDD	389.8157	36.60	1147276.844	0.918	53.529	53.529	1.26	1.24	NO	6549.7

VR02: 00000

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
13	123478-HxCDD	389.8157	36.47	1159980.000	0.971	55.628	55.628	1.25	1.24	NO	6751.7
16	1234678-HpCDD	423.7766	41.36	981017.937	1.017	52.454	52.454	1.05	1.05	NO	3152.8
44	Total-heptadioxins	423.7766	40.09	15393.338	1.017	0.823	0.823	0.95	1.05	NO	54.8
17	OCDD	457.7377	47.27	1449805.188	1.008	106.635	106...	0.89	0.89	NO	3992.3

PFK1

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	48 FUNCTION1 PFK	330.9792	23.28	0.000							0.7
2	48 FUNCTION1 PFK	330.9792	23.02	0.000							1.4
3	48 FUNCTION1 PFK	330.9792	22.96	0.000							1.0
4	48 FUNCTION1 PFK	330.9792	22.81	0.000							1.2
5	48 FUNCTION1 PFK	330.9792	22.72	0.000							1.3
6	48 FUNCTION1 PFK	330.9792	22.57	0.000							0.3
7	48 FUNCTION1 PFK	330.9792	22.46	0.000							1.9
8	48 FUNCTION1 PFK	330.9792	22.34	0.000							0.3
9	48 FUNCTION1 PFK	330.9792	22.15	0.000							1.3
10	48 FUNCTION1 PFK	330.9792	22.09	0.000							1.2
11	48 FUNCTION1 PFK	330.9792	21.70	0.000							4.3
12	48 FUNCTION1 PFK	330.9792	21.67	0.000							3.8
13	48 FUNCTION1 PFK	330.9792	21.55	0.000							0.4
14	48 FUNCTION1 PFK	330.9792	21.25	0.000							1.2
15	48 FUNCTION1 PFK	330.9792	21.22	0.000							1.4
16	48 FUNCTION1 PFK	330.9792	21.12	0.000							1.5
17	48 FUNCTION1 PFK	330.9792	26.97	0.000							0.9
18	48 FUNCTION1 PFK	330.9792	26.11	0.000							1.2
19	48 FUNCTION1 PFK	330.9792	26.02	0.000							1.4
20	48 FUNCTION1 PFK	330.9792	25.60	0.000							2.1
21	48 FUNCTION1 PFK	330.9792	25.41	0.000							0.3
22	48 FUNCTION1 PFK	330.9792	25.24	0.000							1.5
23	48 FUNCTION1 PFK	330.9792	25.09	0.000							0.8
24	48 FUNCTION1 PFK	330.9792	24.58	0.000							1.6
25	48 FUNCTION1 PFK	330.9792	24.51	0.000							1.6
26	48 FUNCTION1 PFK	330.9792	24.33	0.000							3.0
27	48 FUNCTION1 PFK	330.9792	24.20	0.000							1.0
28	48 FUNCTION1 PFK	330.9792	24.09	0.000							1.3
29	48 FUNCTION1 PFK	330.9792	23.90	0.000							1.0
30	48 FUNCTION1 PFK	330.9792	23.67	0.000							0.6
31	48 FUNCTION1 PFK	330.9792	23.45	0.000							1.0
32	48 FUNCTION1 PFK	330.9792	23.37	0.000							1.4
33	48 FUNCTION1 PFK	330.9792	28.23	0.000							1.1
34	48 FUNCTION1 PFK	330.9792	28.08	0.000							1.0
35	48 FUNCTION1 PFK	330.9792	27.56	0.000							0.4
36	48 FUNCTION1 PFK	330.9792	27.42	0.000							1.3
37	48 FUNCTION1 PFK	330.9792	27.36	0.000							1.3
38	48 FUNCTION1 PFK	330.9792	27.30	0.000							1.5

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1											

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	50 FUNCTION3 PFK	380.9760	34.23	0.000		0.000					0.9
2	50 FUNCTION3 PFK	380.9760	34.09	0.000		0.000					1.5
3	50 FUNCTION3 PFK	380.9760	34.06	0.000		0.000					1.5
4	50 FUNCTION3 PFK	380.9760	33.97	0.000		0.000					1.3
5	50 FUNCTION3 PFK	380.9760	33.36	0.000		0.000					1.1
6	50 FUNCTION3 PFK	380.9760	33.31	0.000		0.000					1.0
7	50 FUNCTION3 PFK	380.9760	33.18	0.000		0.000					2.5
8	50 FUNCTION3 PFK	380.9760	33.15	0.000		0.000					2.9
9	50 FUNCTION3 PFK	380.9760	37.17	0.000		0.000					0.5
10	50 FUNCTION3 PFK	380.9760	37.14	0.000		0.000					0.9
11	50 FUNCTION3 PFK	380.9760	36.58	0.000		0.000					1.5
12	50 FUNCTION3 PFK	380.9760	36.45	0.000		0.000					1.1
13	50 FUNCTION3 PFK	380.9760	36.26	0.000		0.000					0.8
14	50 FUNCTION3 PFK	380.9760	36.01	0.000		0.000					1.9
15	50 FUNCTION3 PFK	380.9760	35.81	0.000		0.000					1.4
16	50 FUNCTION3 PFK	380.9760	35.69	0.000		0.000					0.4
17	50 FUNCTION3 PFK	380.9760	35.37	0.000		0.000					1.9
18	50 FUNCTION3 PFK	380.9760	35.29	0.000		0.000					0.5
19	50 FUNCTION3 PFK	380.9760	35.06	0.000		0.000					1.4
20	50 FUNCTION3 PFK	380.9760	34.96	0.000		0.000					1.7
21	50 FUNCTION3 PFK	380.9760	34.80	0.000		0.000					0.9
22	50 FUNCTION3 PFK	380.9760	34.56	0.000		0.000					1.1
23	50 FUNCTION3 PFK	380.9760	34.52	0.000		0.000					2.2
24	50 FUNCTION3 PFK	380.9760	34.35	0.000		0.000					0.8
25	50 FUNCTION3 PFK	380.9760	38.10	0.000		0.000					1.7
26	50 FUNCTION3 PFK	380.9760	38.02	0.000		0.000					1.3
27	50 FUNCTION3 PFK	380.9760	37.91	0.000		0.000					1.3
28	50 FUNCTION3 PFK	380.9760	37.69	0.000		0.000					0.3
29	50 FUNCTION3 PFK	380.9760	37.54	0.000		0.000					1.1
30	50 FUNCTION3 PFK	380.9760	37.34	0.000		0.000					2.5

VR82 : 00850

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
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Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

PFK4

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	51 FUNCTION4 PFK	430.9728	40.69	0.000							0.7
2	51 FUNCTION4 PFK	430.9728	40.53	0.000							0.6
3	51 FUNCTION4 PFK	430.9728	40.31	0.000							1.1
4	51 FUNCTION4 PFK	430.9728	40.07	0.000							0.9
5	51 FUNCTION4 PFK	430.9728	39.74	0.000							1.3
6	51 FUNCTION4 PFK	430.9728	39.32	0.000							0.5
7	51 FUNCTION4 PFK	430.9728	38.90	0.000							1.7
8	51 FUNCTION4 PFK	430.9728	38.73	0.000							3.0
9	51 FUNCTION4 PFK	430.9728	38.65	0.000							2.4
10	51 FUNCTION4 PFK	430.9728	43.75	0.000							0.6
11	51 FUNCTION4 PFK	430.9728	43.70	0.000							0.9
12	51 FUNCTION4 PFK	430.9728	43.61	0.000							0.5
13	51 FUNCTION4 PFK	430.9728	43.00	0.000							0.7
14	51 FUNCTION4 PFK	430.9728	42.63	0.000							1.4
15	51 FUNCTION4 PFK	430.9728	42.38	0.000							0.4
16	51 FUNCTION4 PFK	430.9728	42.19	0.000							1.6
17	51 FUNCTION4 PFK	430.9728	42.10	0.000							1.2
18	51 FUNCTION4 PFK	430.9728	42.07	0.000							1.2
19	51 FUNCTION4 PFK	430.9728	41.96	0.000							1.0
20	51 FUNCTION4 PFK	430.9728	41.93	0.000							1.3
21	51 FUNCTION4 PFK	430.9728	41.49	0.000							1.1
22	51 FUNCTION4 PFK	430.9728	41.32	0.000							0.6
23	51 FUNCTION4 PFK	430.9728	40.91	0.000							0.8
24	51 FUNCTION4 PFK	430.9728	40.84	0.000							0.9
25	51 FUNCTION4 PFK	430.9728	40.78	0.000							1.2
26	51 FUNCTION4 PFK	430.9728	44.53	0.000							0.5
27	51 FUNCTION4 PFK	430.9728	44.27	0.000							0.6
28	51 FUNCTION4 PFK	430.9728	44.21	0.000							1.0
29	51 FUNCTION4 PFK	430.9728	44.10	0.000							1.3
30	51 FUNCTION4 PFK	430.9728	43.88	0.000							0.9
31	51 FUNCTION4 PFK	430.9728	43.79	0.000							0.7

PFK5

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	52 FUNCTION5 PFK	480.9696	48.02	0.000							2.2

ETHERS1

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	53 FUNCTION1 HXCD...	375.8364	27.81	0.000		0.000					6.2
2	53 FUNCTION1 HXCD...	375.8364	26.68	0.000		0.000					4.1

VR82 : 00851

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	22.42	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	21.98	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	21.61	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	21.24	0.000		0.000					2.2
54	FUNCTION1 HPCD...	409.7974	27.47	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	27.21	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	27.12	0.000		0.000					2.1
54	FUNCTION1 HPCD...	409.7974	26.69	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	23.85	0.000		0.000					2.6

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
55	FUNCTION2 HPCD...	409.7974	31.90	0.000		0.000					3.0
55	FUNCTION2 HPCD...	409.7974	31.22	0.000		0.000					2.0
55	FUNCTION2 HPCD...	409.7974	30.79	0.000		0.000					2.7
55	FUNCTION2 HPCD...	409.7974	30.69	0.000		0.000					2.1
55	FUNCTION2 HPCD...	409.7974	30.58	0.000		0.000					1.4
55	FUNCTION2 HPCD...	409.7974	30.36	0.000		0.000					2.3

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

ETHERS6

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

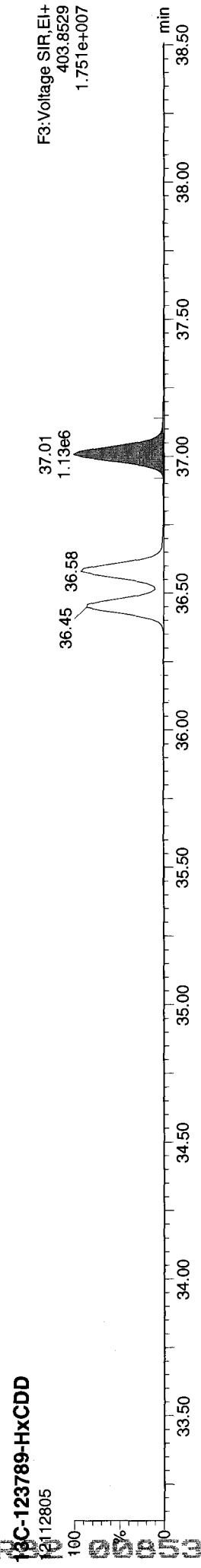
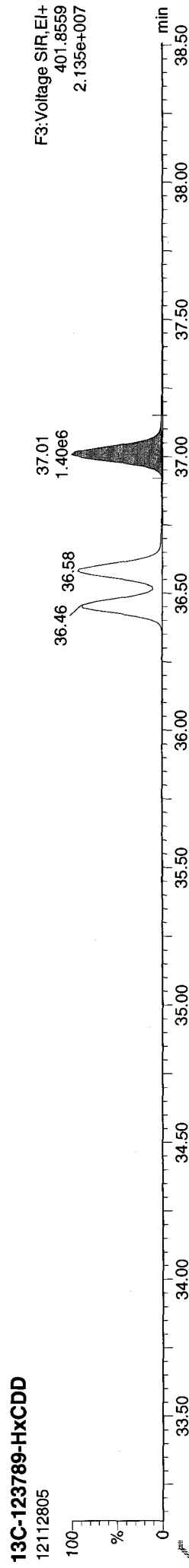
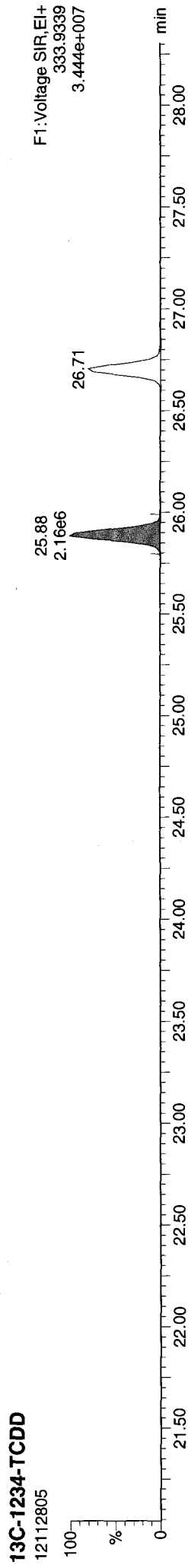
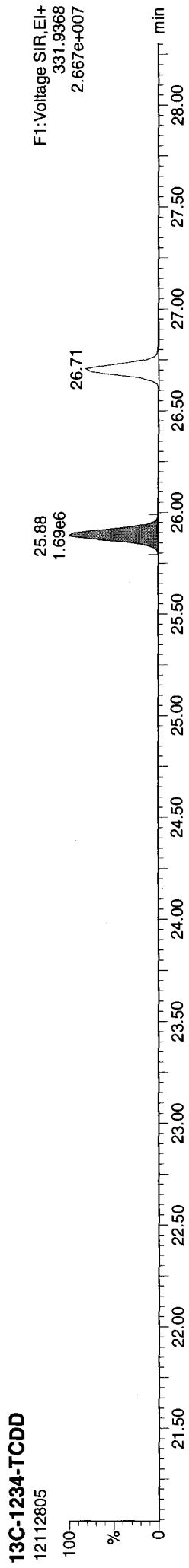
VR82 : 00852

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
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Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

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Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

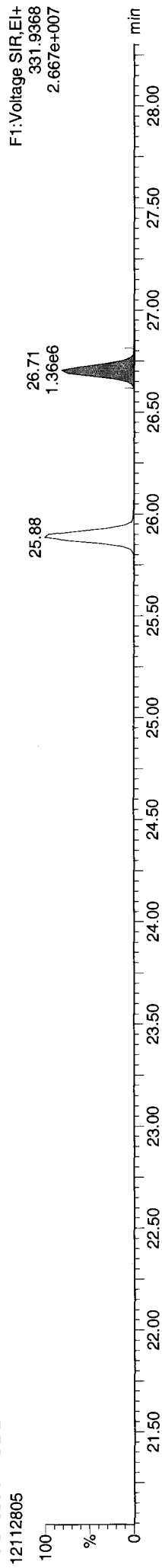


Quantify Sample Report MassLynx 4.1 SCN 714

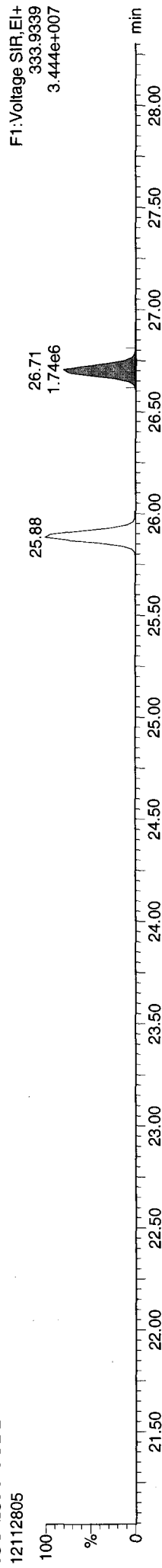
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Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR580PR, Conditions: AUTOSPEC01, User: pk

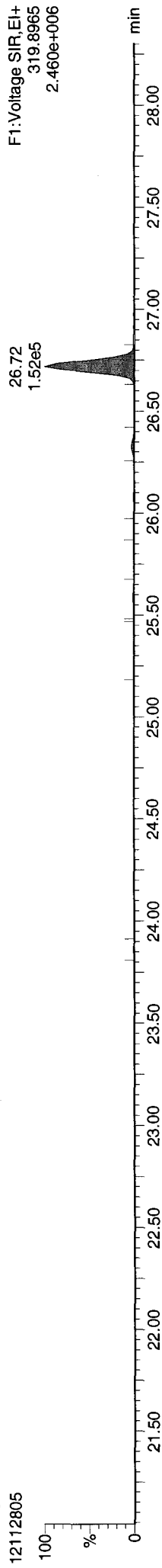
13C-2378-TCDD



13C-2378-TCDD



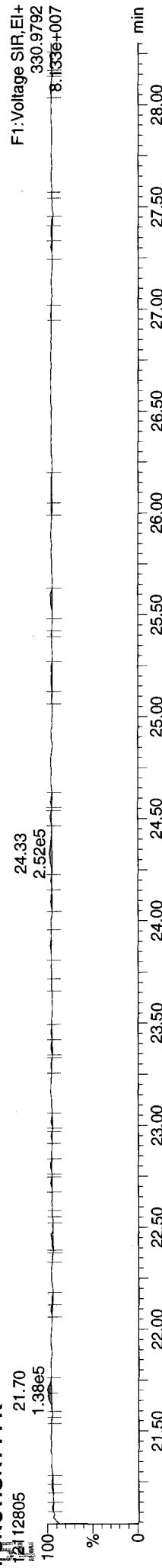
Total-tetradoxins



Total-tetradoxins



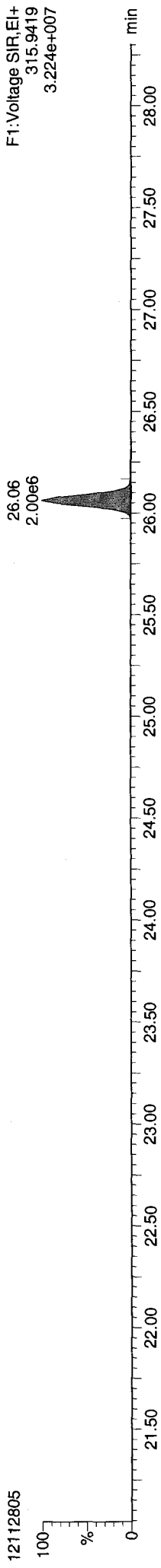
FUNCTION1 PFK



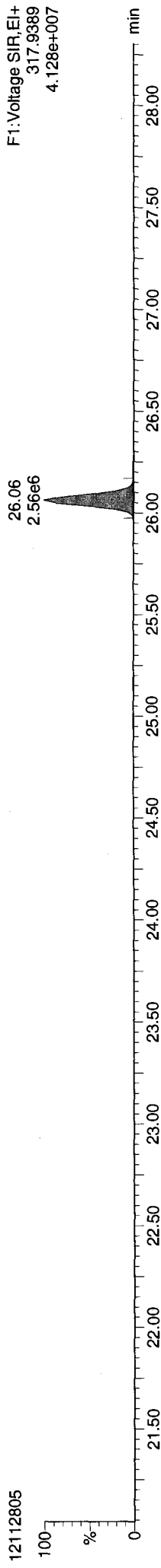
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Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR580PR, Conditions: AUTOSPEC01, User: pk

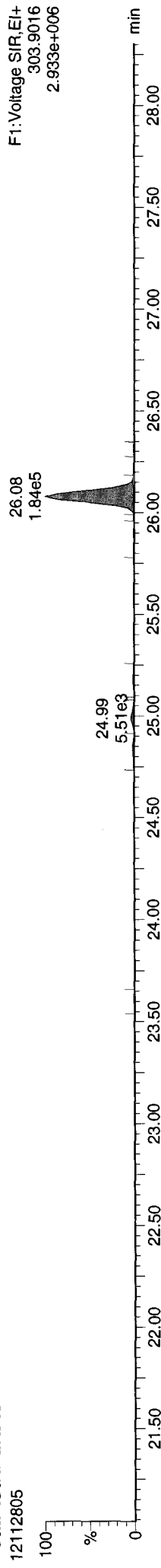
13C-2378-TCDF



13C-2378-TCDF



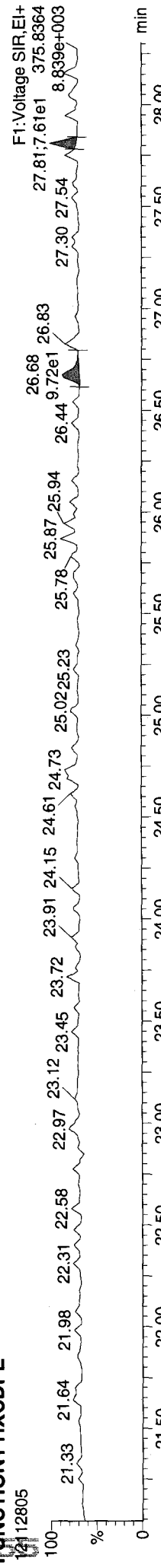
Total-tetrafurans



Total-tetrafurans



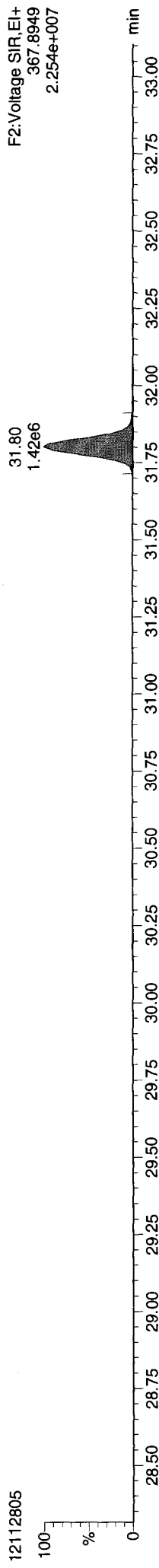
FUNCTION1 HXCDPE



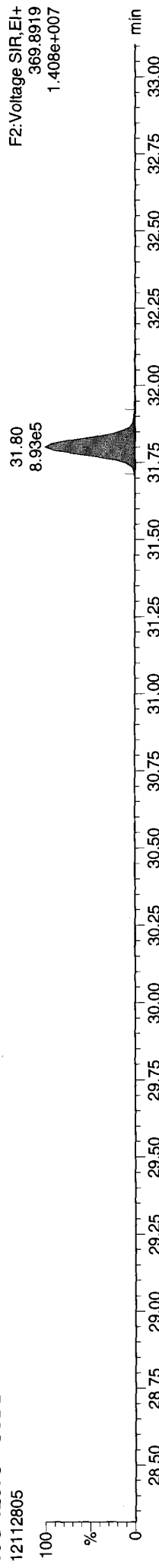
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Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

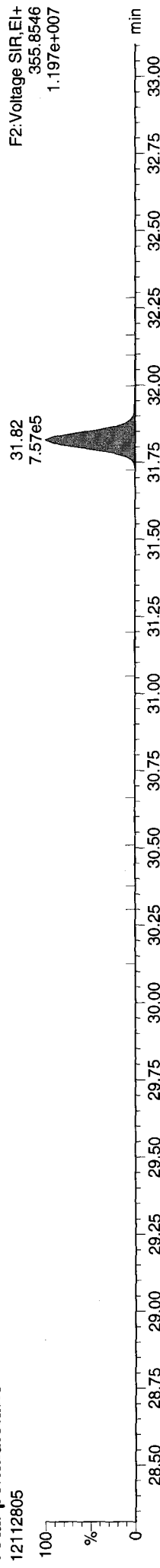
13C-12378-PeCDD



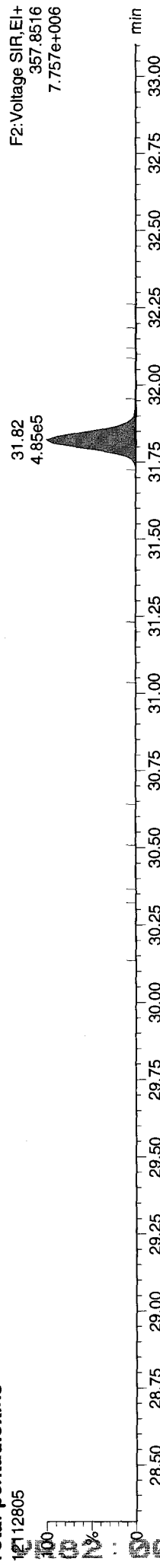
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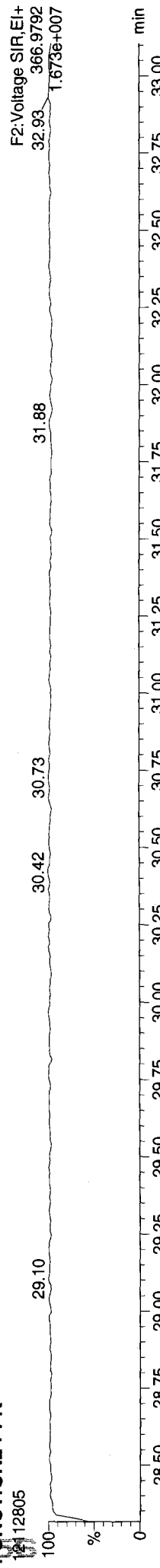
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

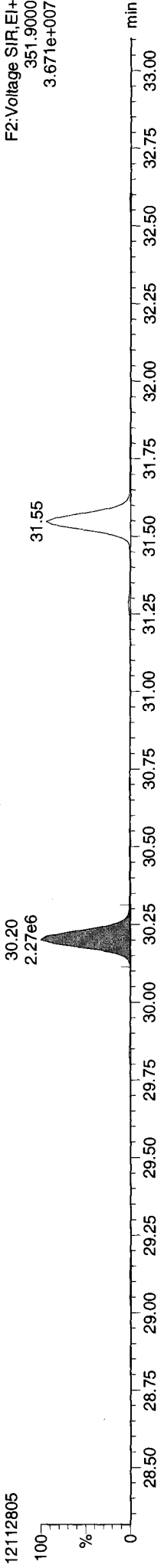


Quantify Sample Report MassLynx 4.1 SCN 714

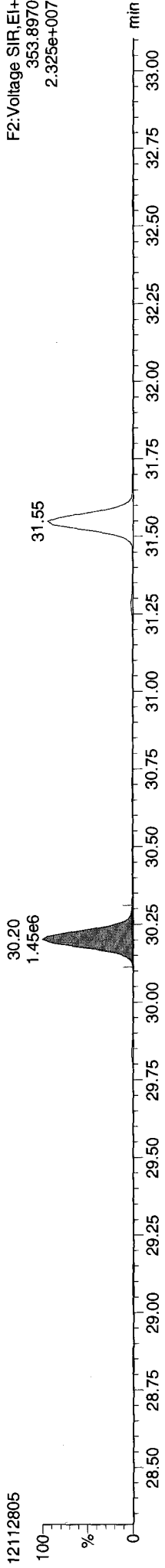
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Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

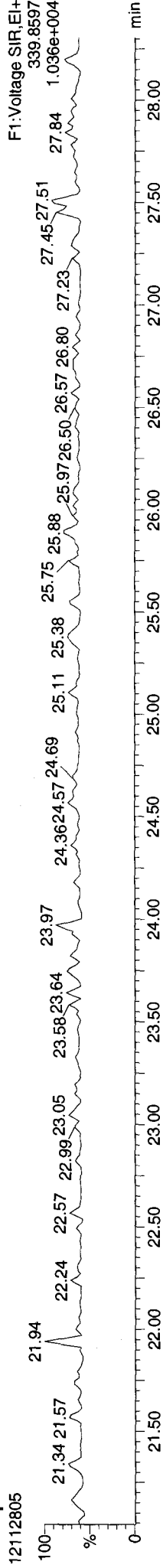
13C-12378-PeCDF



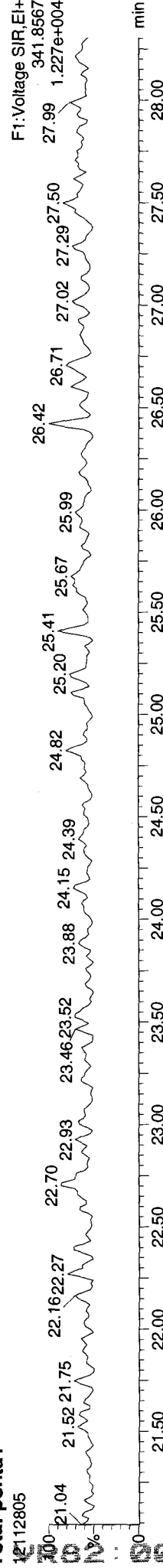
13C-12378-PeCDF



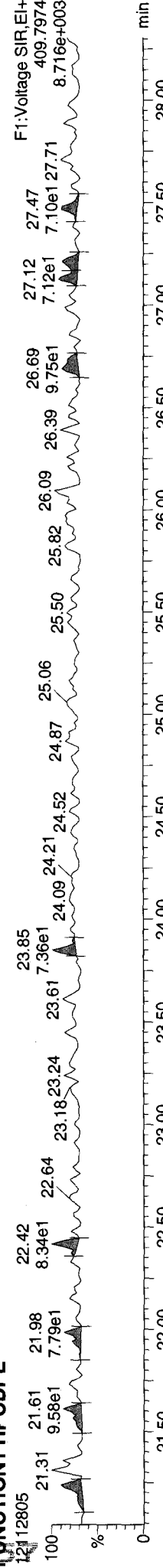
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

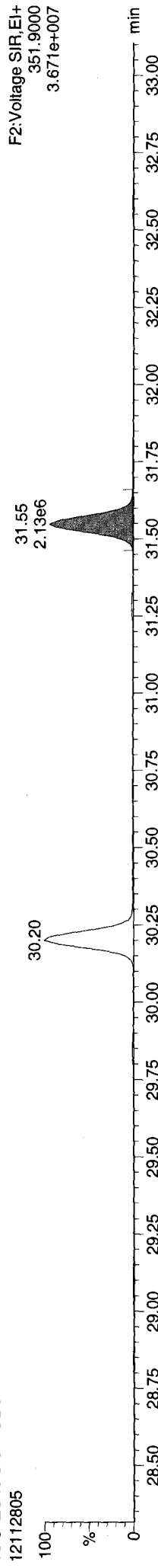


Quantify Sample Report MassLynx 4.1 SCN 714

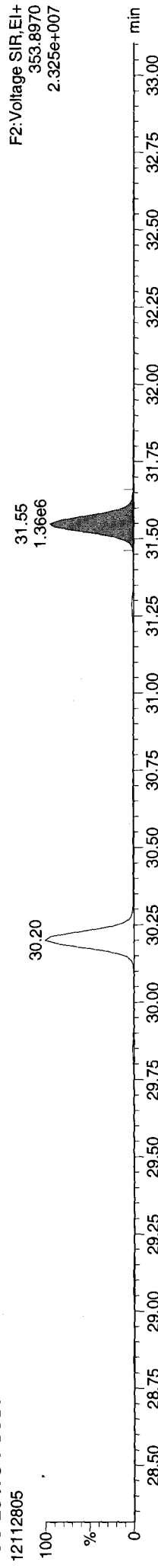
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Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

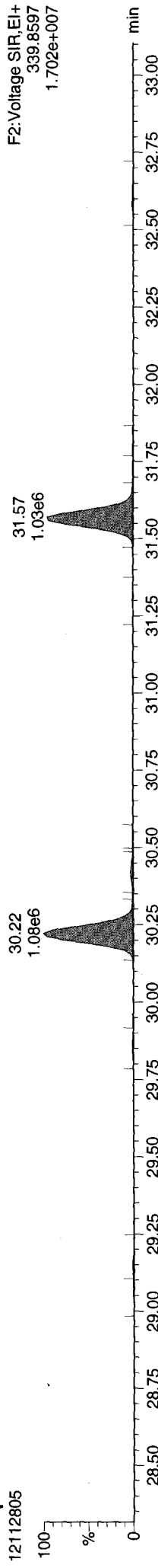
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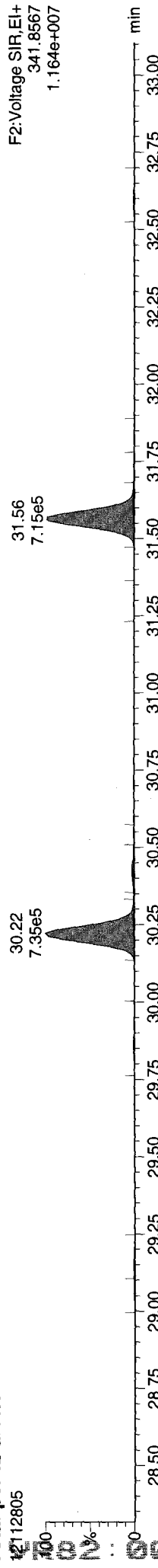
13C-23478-PeCDF



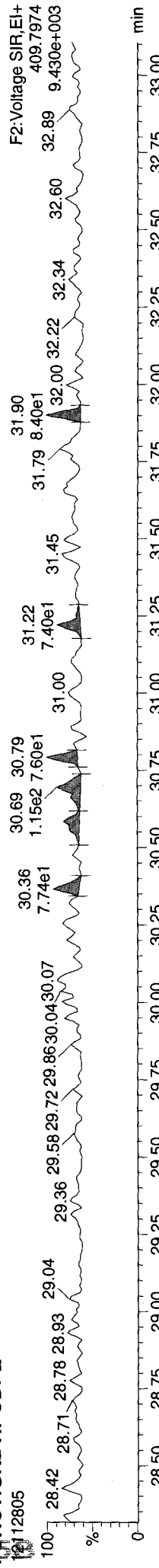
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

13C-123478-HxCDD



13C-123478-HxCDD



Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

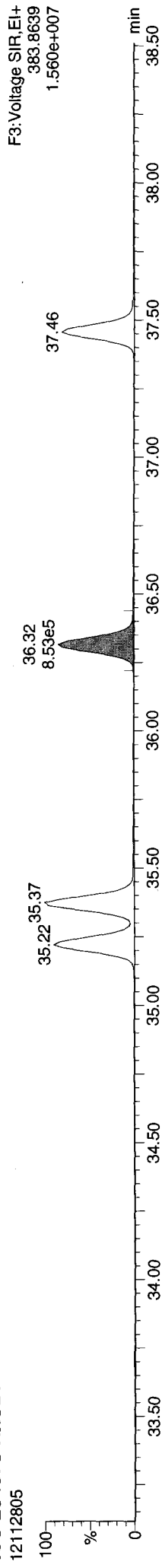
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

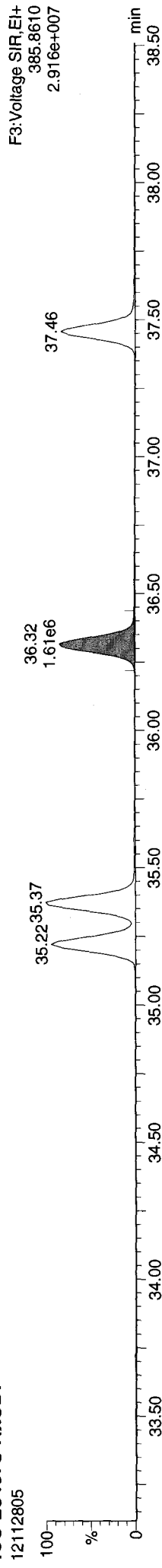
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

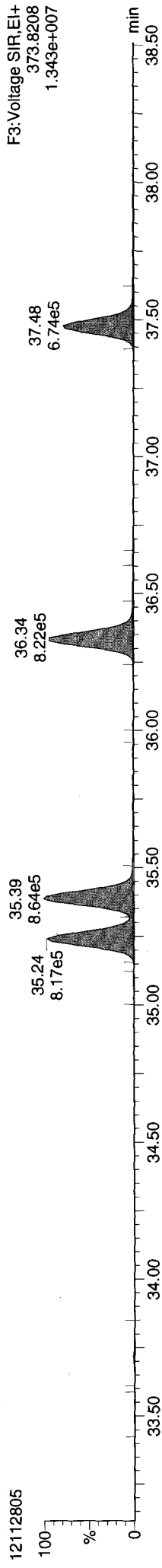
13C-234678-HxCDF



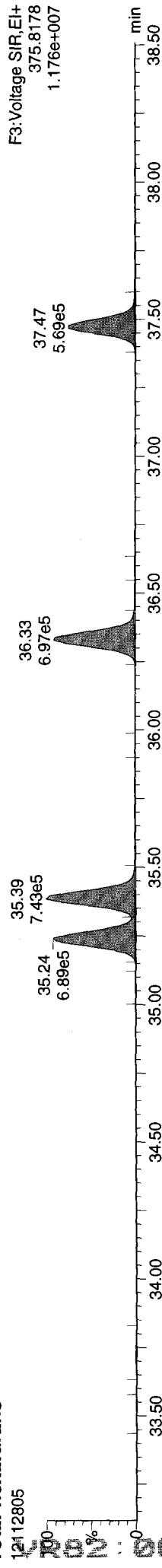
13C-234678-HxCDF



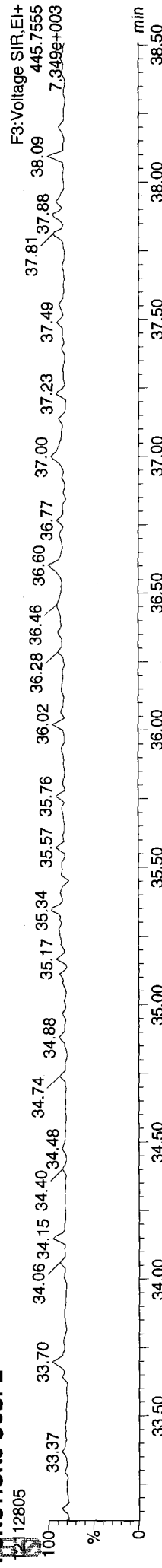
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

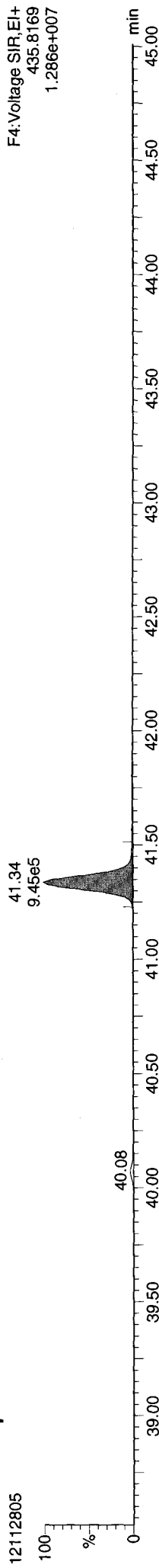
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

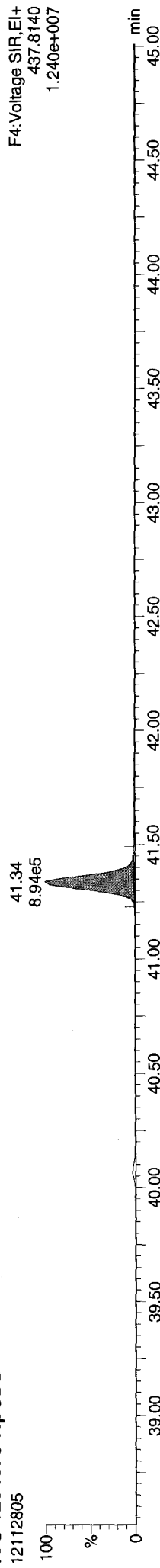
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

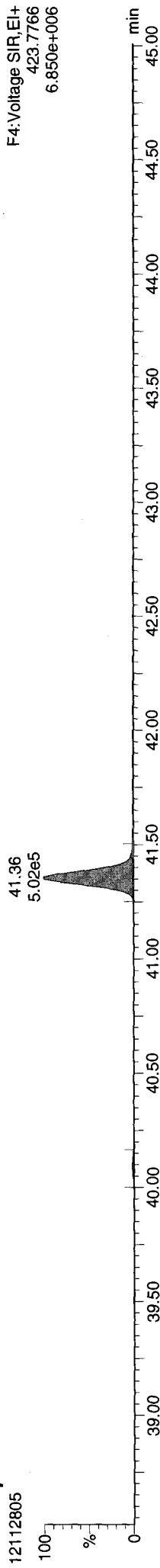
13C-1234678-HpCDD



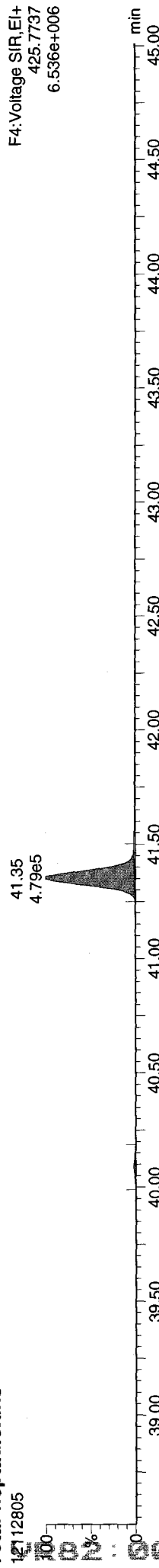
13C-1234678-HpCDD



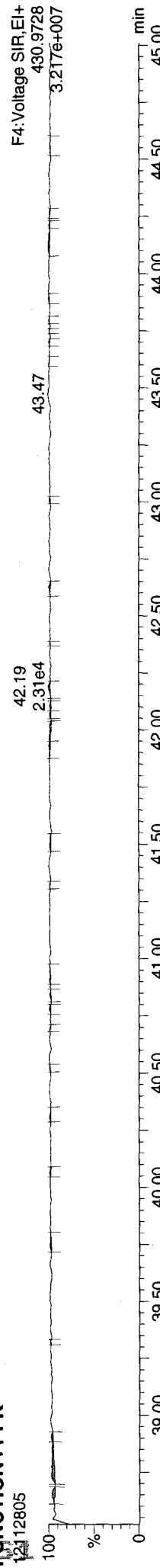
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

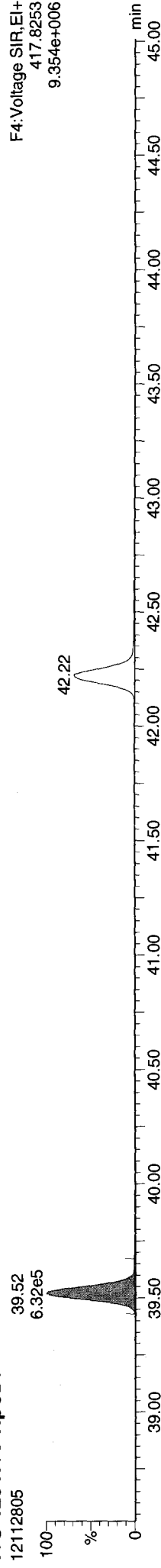


Quantify Sample Report MassLynx 4.1 SCN 714

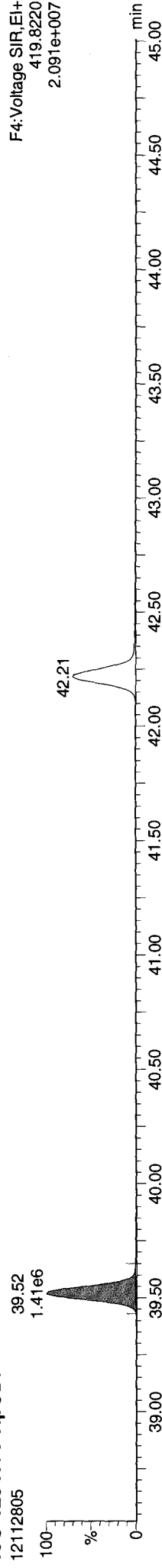
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

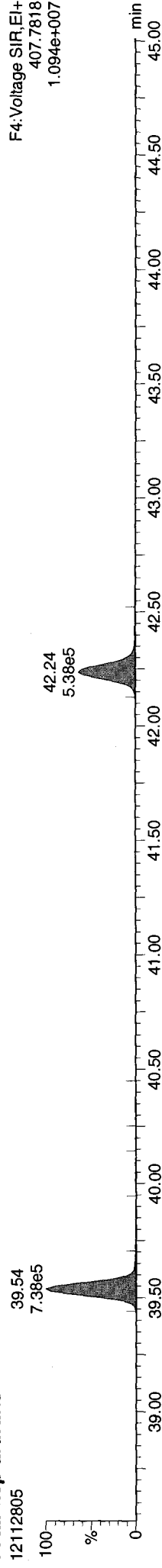
13C-1234678-HpCDF



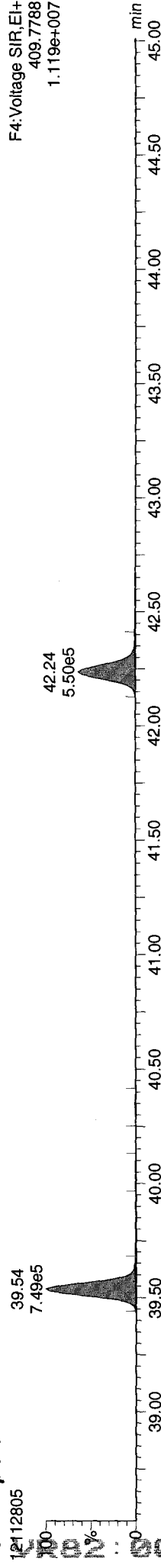
13C-1234678-HpCDF



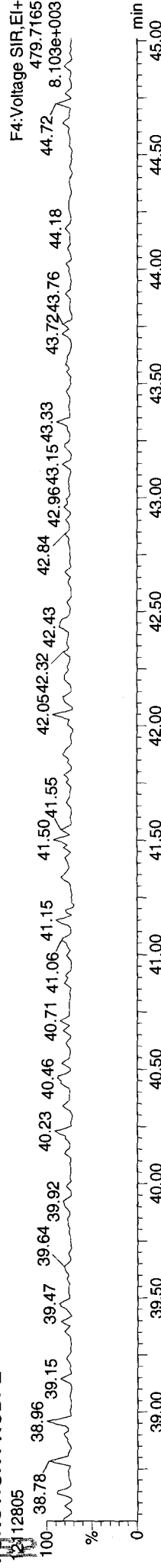
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

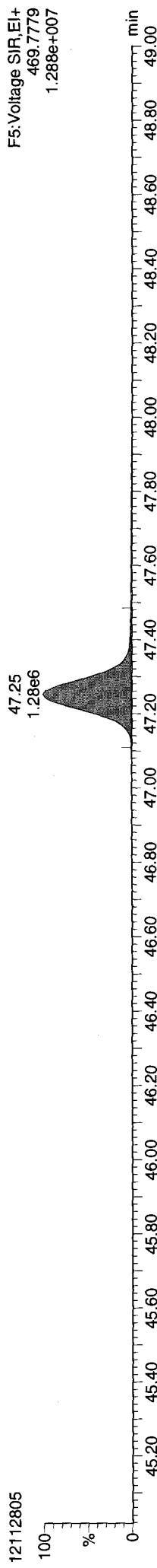


Quantify Sample Report MassLynx 4.1 SCN 714

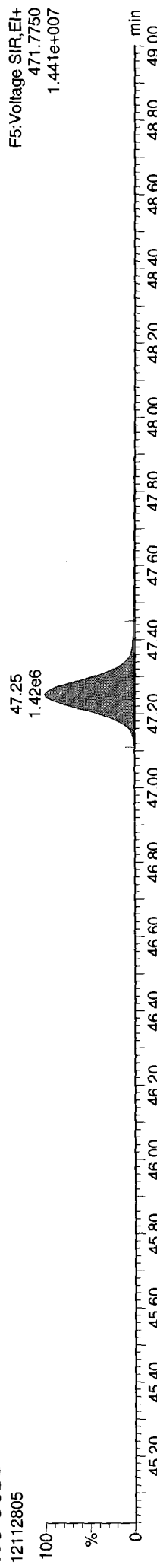
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

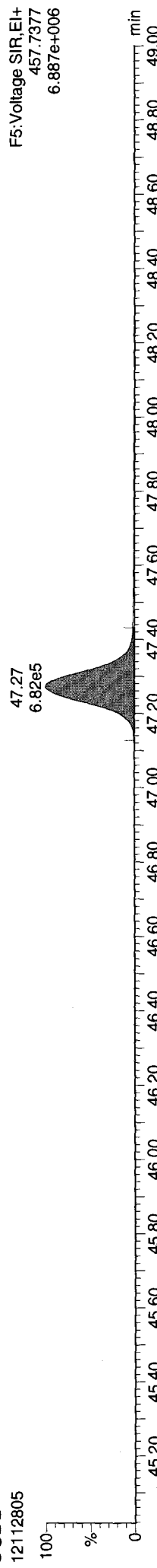
13C-OCDD



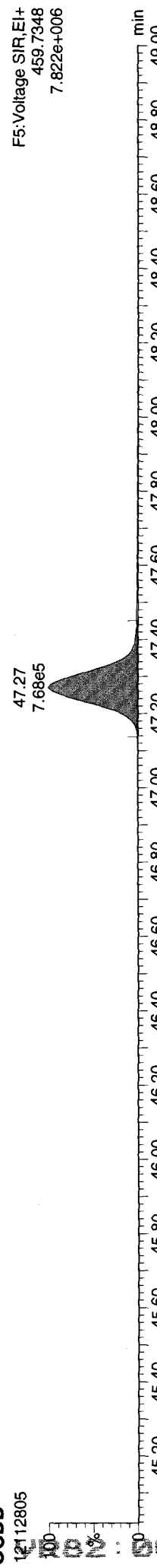
13C-OCDD



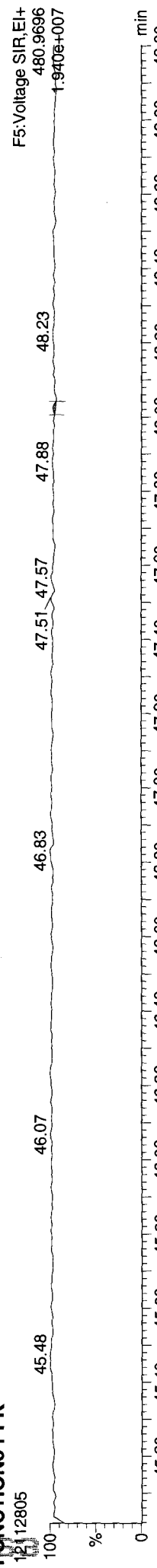
OCDD



OCDD



FUNCTION5 PFK

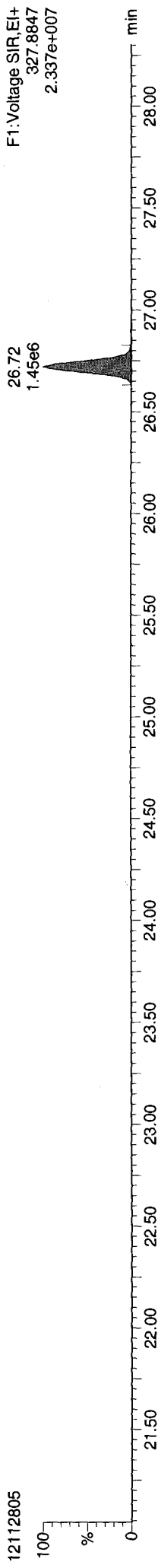


Quantify Sample Report MassLynx 4.1 SCN 714

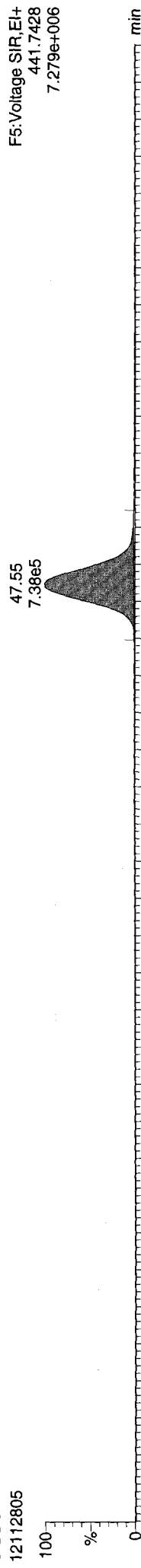
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:37 Pacific Standard Time

Name: 12112805, Date: 28-Nov-2012, Time: 12:58:56, ID: VR58OPR, Conditions: AUTOSPEC01, User: pk

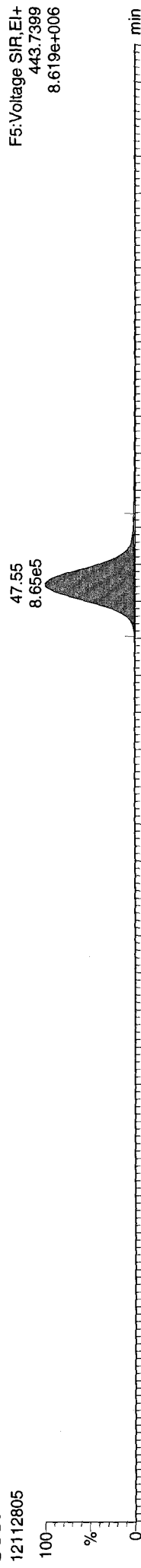
37CL-2378-TCDD



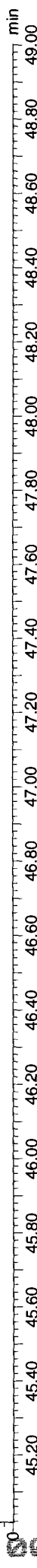
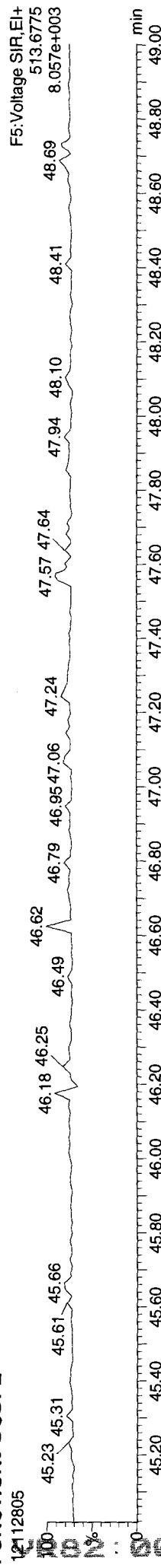
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

	Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC	pg
1	2378-TCDF	26.078	1.001	7.47e3	1.03e4	0.877	0.728	0.770	77.1	1571	1510	1.21e5	1.53e5	NO	0.460	0.460
2	12378-PeCDF	30.222	1.001	9.29e3	7.53e3	0.896	1.234	1.550	75.3	2044	2533	1.54e5	1.09e5	YES	0.477	0.525
3	23478-PeCDF	31.560	1.000	8.41e3	6.28e3	0.926	1.339	1.550	61.9	2044	2533	1.27e5	9.96e4	NO	0.450	0.450
4	123478-HxCDF	35.243	1.001	2.46e4	2.02e4	1.068	1.215	1.240	232.3	1685	2188	3.92e5	3.21e5	NO	1.636	1.636
5	234678-HxCDF	36.339	1.000	1.53e4	1.19e4	1.037	1.292	1.240	104.1	1685	2188	1.75e5	1.28e5	NO	1.062	1.062
6	123678-HxCDF	35.385	1.000	8.74e3	6.88e3	1.035	1.270	1.240	77.1	1685	2188	1.30e5	1.02e5	NO	0.562	0.562
7	123789-HxCDF	37.446	1.000	5.06e3	4.42e3	0.987	1.144	1.240	47.0	1685	2188	7.91e4	6.59e4	NO	0.334	0.334
8	1234678-HpCDF	39.540	1.001	1.22e5	1.28e5	1.232	0.953	1.050	1074.5	1740	1553	1.87e6	1.96e6	NO	10.035	10.035
9	1234789-HpCDF	42.247	1.000	8.99e3	9.83e3	1.215	0.915	1.050	62.8	1740	1553	1.09e5	1.24e5	NO	0.936	0.936
10	OCDF	47.549	1.006	1.86e5	2.24e5	1.138	0.828	0.890	1471.6	1230	1229	1.81e6	2.30e6	NO	29.227	29.227
11	2378-TCDD	26.721	1.001	7.30e3	1.02e4	1.049	0.719	0.770	102.5	1147	1157	1.18e5	1.54e5	NO	0.543	0.543
12	12378-PeCDD	31.823	1.001	8.20e3	5.52e3	0.998	1.487	1.550	94.1	1316	1314	1.24e5	7.70e4	NO	0.613	0.613
13	123478-HxCDD	36.481	1.000	8.77e3	7.43e3	0.971	1.180	1.240	82.6	1804	1813	1.49e5	1.17e5	NO	0.765	0.765
14	123678-HxCDD	36.613	1.000	2.38e4	1.87e4	0.918	1.272	1.240	195.7	1804	1813	3.53e5	2.72e5	NO	2.080	2.080
15	123789-HxCDD	37.041	1.012	1.66e4	1.39e4	0.932	1.191	1.240	145.9	1804	1813	2.63e5	2.13e5	NO	1.485	1.485
16	1234678-HpCDD	41.348	1.000	4.84e5	4.65e5	1.017	1.041	1.050	1437.6	4552	3860	6.54e6	6.30e6	NO	52.867	52.867
17	OCDD	47.280	1.001	2.60e6	2.95e6	1.008	0.883	0.890	14498.1	1877	4229	2.72e7	3.06e7	NO	446.871	446.871
18	13C-2378-TCDF	26.063	1.007	1.93e6	2.47e6	1.473	0.779	0.770	10655.1	2855	2853	3.04e7	3.84e7	NO	78.393	78.393
19	13C-12378-PeCDF	30.201	1.167	2.18e6	1.40e6	1.148	1.558	1.550	11428.2	3071	3655	3.51e7	2.24e7	NO	81.747	81.747
20	13C-23478-PeCDF	31.549	1.219	2.14e6	1.38e6	1.113	1.552	1.550	11276.0	3071	3655	3.46e7	2.21e7	NO	83.175	83.175
21	13C-123478-HxCDF	35.221	0.951	8.72e5	1.69e6	1.209	0.516	0.510	4180.1	3239	3849	1.35e7	2.64e7	NO	81.554	81.554
22	13C-123678-HxCDF	35.374	0.956	9.23e5	1.76e6	1.269	0.523	0.510	4362.5	3239	3849	1.41e7	2.72e7	NO	81.485	81.485
23	13C-234678-HxCDF	36.328	0.981	8.43e5	1.62e6	1.236	0.519	0.510	3933.3	3239	3849	1.27e7	2.46e7	NO	76.813	76.813
24	13C-123789-HxCDF	37.457	1.012	9.88e5	1.88e6	1.107	0.524	0.510	4677.3	3239	3849	1.51e7	2.92e7	NO	99.848	99.848
25	13C-1234678-HpCDF	39.518	1.067	6.23e5	1.40e6	1.051	0.446	0.440	3509.5	2611	2401	9.16e6	2.09e7	NO	73.865	73.865
26	13C-1234789-HpCDF	42.225	1.141	5.07e5	1.15e6	0.815	0.442	0.440	2488.0	2611	2401	6.50e6	1.47e7	NO	78.136	78.136
27	13C-1234-TCDD	25.884	0.000	1.68e6	2.13e6	1.000	0.785	0.770	8646.7	3144	1949	2.72e7	3.41e7	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.031	1.34e6	1.72e6	0.946	0.782	0.770	6551.2	3144	1949	2.06e7	2.65e7	NO	84.973	84.973
29	13C-12378-PeCDD	31.801	1.229	1.38e6	8.66e5	0.721	1.587	1.550	11891.6	1843	1513	2.19e7	1.37e7	NO	81.626	81.626
30	13C-123478-HxCDD	36.471	0.985	1.22e6	9.60e5	0.991	1.273	1.240	7683.7	2443	1478	1.88e7	1.47e7	NO	84.691	84.691
31	13C-123678-HxCDD	36.602	0.989	1.24e6	9.92e5	1.025	1.246	1.240	7707.2	2443	1478	1.88e7	1.49e7	NO	83.636	83.636
32	13C-1234678-HpCDD	41.338	1.117	9.02e5	8.64e5	0.866	1.044	1.050	3779.1	3300	2765	1.25e7	1.18e7	NO	78.412	78.412
33	13C-OCDD	47.253	1.276	1.16e6	1.31e6	0.769	0.886	0.890	5117.5	2351	2600	1.20e7	1.33e7	NO	123.209	123.209

pk 12/10/12

Quantify Sample Summary Report MassLynx 4.1 SCN 714
 Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height	Height2	EMPC1	EMPC2	EMPC	pg
34	13C-123789-HxCDD	37.019	1.44e6	1.16e6	1.000	1.241	1.240	9137.3	2443	1478	2.23e7	1.79e7	NO			100.000
35	Total-tetrafurans		9.07e4		0.877				1571		1.34e6				6.648	5.446
36	Total-penta1		7.31e4						745		1.15e6				3.686	3.686
37	Total-pentafurans		7.41e4		0.911				2044		1.10e6				4.865	3.817
38	Total-hexafurans		2.42e5		1.032				1685		3.66e6				16.511	16.458
39	Total-heptafurans		3.82e5		1.223				1740		5.59e6				33.729	33.729
40	Total-Furans		1.05e6		1.041				1571		1.46e7				94.665	92.364
41	Total-tetraoxins		3.15e4		1.049				1147		4.98e5				2.895	2.304
42	Total-pentadioxins		4.18e4		0.998				1316		5.82e5				3.696	2.726
43	Total-hexadioxins		2.08e5		0.940				1804		2.86e6				18.125	18.125
44	Total-heptadioxins		1.22e6		1.017				4552		1.73e7				133.237	133.237
45	Total-Dioxins		4.10e6		0.985				1147		4.85e7				604.824	603.263
46	Total-TEQ		5.15e6						1147		6.31e7				699.489	695.627
47	37CL-2378-TCDD	26.721	1.44e6		1.044			10832.1	2099		2.27e7				36.233	36.233
48	FUNCTION1 PFK		3.37e6						793086		5.16e7					0.000
49	FUNCTION2 PFK		3.43e5						269710		8.02e6					0.000
50	FUNCTION3 PFK		2.24e6						567326		2.60e7					
51	FUNCTION4 PFK		3.80e5						423107		1.14e7					
52	FUNCTION5 PFK		1.28e5						285100		5.63e6					
53	FUNCTION1 HXCDPE		1.76e2						622		3.79e3					0.000
54	FUNCTION1 HPCDPE		7.91e2						1030		1.88e4					0.000
55	FUNCTION2 HPCDPE		5.41e2						979		1.34e4					0.000
56	FUNCTION3 OCDPE		0.00e0						371		0.00e0					0.000
57	FUNCTION4 NCDPE		5.10e4						857		7.58e5					0.000
58	FUNCTION5 DCDPE		0.00e0						482		0.00e0					0.000

2012-12-10 14:37:57

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	35 Total-tetrafurans	303.9016	24.82	33860.123	0.877	0.878	0.878	0.79	0.77	NO	139.8
2	35 Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.224	0.53	0.77	YES	36.3
3	35 Total-tetrafurans	303.9016	24.32	10781.640	0.877	0.280	0.280	0.74	0.77	NO	44.4
4	35 Total-tetrafurans	303.9016	24.18	7782.666	0.877	0.202	0.202	0.72	0.77	NO	36.0
5	35 Total-tetrafurans	303.9016	24.08	12988.165	0.877	0.337	0.337	0.72	0.77	NO	56.4
6	35 Total-tetrafurans	303.9016	23.93	5308.608	0.877	0.138	0.138	0.76	0.77	NO	28.9
7	35 Total-tetrafurans	303.9016	23.82	14691.414	0.877	0.381	0.381	0.79	0.77	NO	59.9
8	35 Total-tetrafurans	303.9016	23.73	17311.789	0.877	0.449	0.449	0.81	0.77	NO	57.6
9	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.150	0.42	0.77	YES	32.1
10	35 Total-tetrafurans	303.9016	23.55	5014.700	0.877	0.130	0.130	0.78	0.77	NO	23.8
11	35 Total-tetrafurans	303.9016	23.42	26041.186	0.877	0.675	0.675	0.76	0.77	NO	107.4
12	35 Total-tetrafurans	303.9016	22.84	7057.236	0.877	0.183	0.183	0.74	0.77	NO	29.6
13	35 Total-tetrafurans	303.9016	22.58	0.000	0.877	0.000	0.091	0.55	0.77	YES	14.3
14	35 Total-tetrafurans	303.9016	26.30	14359.107	0.877	0.372	0.372	0.77	0.77	NO	57.5
15	35 Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.090	0.60	0.77	YES	17.8
16	1 2378-TCDF	303.9016	26.08	17724.087	0.877	0.460	0.460	0.73	0.77	NO	77.1
17	35 Total-tetrafurans	303.9016	25.84	16437.849	0.877	0.426	0.426	0.80	0.77	NO	46.9
18	35 Total-tetrafurans	303.9016	25.58	0.000	0.877	0.000	0.072	0.52	0.77	YES	12.0
19	35 Total-tetrafurans	303.9016	25.39	4936.714	0.877	0.128	0.128	0.83	0.77	NO	19.9
20	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.574	0.64	0.77	YES	98.1
21	35 Total-tetrafurans	303.9016	24.99	15746.227	0.877	0.408	0.408	0.67	0.77	NO	65.5

PP

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	36 Total-penta1	339.8597	27.50	120050.793		3.686	3.686	1.56	1.55	NO	1536.7

PF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	37 Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.035	1.39	1.55	NO	6.1
2	37 Total-pentafurans	339.8597	29.28	0.000	0.911	0.000	0.024	0.97	1.55	YES	3.7
3	37 Total-pentafurans	339.8597	29.15	41608.504	0.911	1.286	1.286	1.40	1.55	NO	192.4
4	37 Total-pentafurans	339.8597	29.09	17524.723	0.911	0.542	0.542	1.68	1.55	NO	89.8
5	37 Total-pentafurans	339.8597	28.95	13483.287	0.911	0.417	0.417	1.35	1.55	NO	53.7
6	37 Total-pentafurans	339.8597	28.86	2331.935	0.911	0.072	0.072	1.63	1.55	NO	14.0
7	3 23478-PeCDF	339.8597	31.56	14696.714	0.926	0.450	0.450	1.34	1.55	NO	61.9
8	37 Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.271	1.17	1.55	YES	35.8
9	37 Total-pentafurans	339.8597	31.30	5784.379	0.911	0.179	0.179	1.53	1.55	NO	27.4
10	37 Total-pentafurans	339.8597	31.07	0.000	0.911	0.000	0.011	2.37	1.55	YES	3.5
11	37 Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.075	0.90	1.55	YES	14.3
12	37 Total-pentafurans	339.8597	30.42	8630.051	0.911	0.267	0.267	1.52	1.55	NO	38.3
13	2 12378-PeCDF	339.8597	30.22	16821.588	0.896	0.000	0.477	1.23	1.55	YES	75.3
14	37 Total-pentafurans	339.8597	29.86	19589.589	0.911	0.605	0.605	1.53	1.55	NO	55.3
15	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.075	1.27	1.55	YES	14.3
16	37 Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.079	1.79	1.55	YES	12.0

VR82: 00857

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
38	Total-hexafurans	373.8208	34.60	167578.648	1.032	6.136	6.136	1.20	1.24	NO	836.7
38	Total-hexafurans	373.8208	34.27	3990.949	1.032	0.146	0.146	1.13	1.24	NO	18.5
38	Total-hexafurans	373.8208	33.99	705.091	1.032	0.026	0.026	1.24	1.24	NO	5.0
38	Total-hexafurans	373.8208	33.73	132279.512	1.032	4.843	4.843	1.11	1.24	NO	620.1
38	Total-hexafurans	373.8208	33.51	39575.976	1.032	1.449	1.449	1.17	1.24	NO	201.2
7	123789-HxCDF	373.8208	37.45	9475.385	0.987	0.334	0.334	1.14	1.24	NO	47.0
5	234678-HxCDF	373.8208	36.34	27176.126	1.037	1.062	1.062	1.29	1.24	NO	104.1
38	Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.052	0.85	1.24	YES	7.4
6	123678-HxCDF	373.8208	35.39	15615.549	1.035	0.562	0.562	1.27	1.24	NO	77.1
4	123478-HxCDF	373.8208	35.24	44780.942	1.068	1.636	1.636	1.22	1.24	NO	232.3
38	Total-hexafurans	373.8208	35.08	7208.886	1.032	0.264	0.264	1.17	1.24	NO	32.5

HPF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
9	1234789-HpCDF	407.7818	42.25	18818.223	1.215	0.936	0.936	0.91	1.05	NO	62.8
39	Total-heptafurans	407.7818	40.33	504210.047	1.223	22.440	22.440	0.97	1.05	NO	2049.8
39	Total-heptafurans	407.7818	40.03	7141.817	1.223	0.318	0.318	0.97	1.05	NO	25.7
8	1234678-HpCDF	407.7818	39.54	249496.359	1.232	10.035	10.035	0.95	1.05	NO	1074.5

VR82 : 00858

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	HPF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
35	Total-tetrafurans	303.9016	24.82	33860.123	0.877	0.878	0.878	0.79	0.77	NO	139.8
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.224	0.53	0.77	YES	36.3
35	Total-tetrafurans	303.9016	24.32	10781.640	0.877	0.280	0.280	0.74	0.77	NO	44.4
35	Total-tetrafurans	303.9016	24.18	7782.666	0.877	0.202	0.202	0.72	0.77	NO	36.0
35	Total-tetrafurans	303.9016	24.08	12988.165	0.877	0.337	0.337	0.72	0.77	NO	56.4
35	Total-tetrafurans	303.9016	23.93	5308.608	0.877	0.138	0.138	0.76	0.77	NO	28.9
35	Total-tetrafurans	303.9016	23.82	14691.414	0.877	0.381	0.381	0.79	0.77	NO	59.9
35	Total-tetrafurans	303.9016	23.73	17311.789	0.877	0.449	0.449	0.81	0.77	NO	57.6
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.150	0.42	0.77	YES	32.1
35	Total-tetrafurans	303.9016	23.55	5014.700	0.877	0.130	0.130	0.78	0.77	NO	23.8
35	Total-tetrafurans	303.9016	23.42	26041.186	0.877	0.675	0.675	0.76	0.77	NO	107.4
35	Total-tetrafurans	303.9016	22.84	7057.236	0.877	0.183	0.183	0.74	0.77	NO	29.6
35	Total-tetrafurans	303.9016	22.58	0.000	0.877	0.000	0.091	0.55	0.77	YES	14.3
35	Total-tetrafurans	303.9016	26.30	14359.107	0.877	0.372	0.372	0.77	0.77	NO	57.5
35	Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.090	0.60	0.77	YES	17.8
1	2378-TCDF	303.9016	26.08	17724.087	0.877	0.460	0.460	0.73	0.77	NO	77.1
35	Total-tetrafurans	303.9016	25.84	16437.849	0.877	0.426	0.426	0.80	0.77	NO	46.9
35	Total-tetrafurans	303.9016	25.58	0.000	0.877	0.000	0.072	0.52	0.77	YES	12.0
35	Total-tetrafurans	303.9016	25.39	4936.714	0.877	0.128	0.128	0.83	0.77	NO	19.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.574	0.64	0.77	YES	98.1
35	Total-tetrafurans	303.9016	24.99	15746.227	0.877	0.408	0.408	0.67	0.77	NO	65.5
37	Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.035	1.39	1.55	NO	6.1
37	Total-pentafurans	339.8597	29.28	0.000	0.911	0.000	0.024	0.97	1.55	YES	3.7
37	Total-pentafurans	339.8597	29.15	41608.504	0.911	1.286	1.286	1.40	1.55	NO	192.4
37	Total-pentafurans	339.8597	29.09	17524.723	0.911	0.542	0.542	1.68	1.55	NO	89.8
37	Total-pentafurans	339.8597	28.95	13483.287	0.911	0.417	0.417	1.35	1.55	NO	53.7
37	Total-pentafurans	339.8597	28.86	2331.935	0.911	0.072	0.072	1.63	1.55	NO	14.0
3	23478-PeCDF	339.8597	31.56	14696.714	0.926	0.450	0.450	1.34	1.55	NO	61.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.271	1.17	1.55	YES	35.8
37	Total-pentafurans	339.8597	31.30	5784.379	0.911	0.179	0.179	1.53	1.55	NO	27.4
37	Total-pentafurans	339.8597	31.07	0.000	0.911	0.000	0.011	2.37	1.55	YES	3.5
37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.075	0.90	1.55	YES	14.3
37	Total-pentafurans	339.8597	30.42	8630.051	0.911	0.267	0.267	1.52	1.55	NO	38.3
2	12378-PeCDF	339.8597	30.22	16821.588	0.896	0.000	0.477	1.23	1.55	YES	75.3
37	Total-pentafurans	339.8597	29.86	19589.589	0.911	0.605	0.605	1.53	1.55	NO	55.3
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.075	1.27	1.55	YES	14.3
37	Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.079	1.79	1.55	YES	12.0
38	Total-hexafurans	373.8208	34.60	167578.648	1.032	6.136	6.136	1.20	1.24	NO	836.7
38	Total-hexafurans	373.8208	34.27	3990.949	1.032	0.146	0.146	1.13	1.24	NO	18.5
38	Total-hexafurans	373.8208	33.99	705.091	1.032	0.026	0.026	1.24	1.24	NO	5.0
38	Total-hexafurans	373.8208	33.73	132279.512	1.032	4.843	4.843	1.11	1.24	NO	620.1
38	Total-hexafurans	373.8208	33.51	39575.976	1.032	1.449	1.449	1.17	1.24	NO	201.2
7	123789-HxCDF	373.8208	37.45	9475.385	0.987	0.334	0.334	1.14	1.24	NO	47.0
5	234678-HxCDF	373.8208	36.34	27176.126	1.037	1.062	1.062	1.29	1.24	NO	104.1
38	Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.052	0.85	1.24	YES	7.4
6	123678-HxCDF	373.8208	35.39	15615.549	1.035	0.562	0.562	1.27	1.24	NO	77.1
4	123478-HxCDF	373.8208	35.24	44780.942	1.068	1.636	1.636	1.22	1.24	NO	232.3
38	Total-hexafurans	373.8208	35.08	7208.886	1.032	0.264	0.264	1.17	1.24	NO	32.5
9	1234789-HpCDF	407.7818	42.25	18818.223	1.215	0.936	0.936	0.91	1.05	NO	62.8

VR02: 00000

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
39	Total-heptafurans	407.7818	40.33	504210.047	1.223	22.440	22.440	0.97	1.05	NO	2049.8
39	Total-heptafurans	407.7818	40.03	7141.817	1.223	0.318	0.318	0.97	1.05	NO	25.7
8	1234678-HpCDF	407.7818	39.54	249496.359	1.232	10.035	10.035	0.95	1.05	NO	1074.5
10	OCDF	441.7428	47.55	409512.765	1.138	29.227	29.227	0.83	0.89	NO	1471.6
36	Total-penta1	339.8597	27.50	120050.793		3.686	3.686	1.56	1.55	NO	1536.7

TD

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
41	Total-tetradioxins	319.8965	27.30	0.000	1.049	0.000	0.069	0.89	0.77	YES	11.9
41	Total-tetradioxins	319.8965	26.85	0.000	1.049	0.000	0.085	0.96	0.77	YES	17.5
11	2378-TCDD	319.8965	26.72	17455.432	1.049	0.543	0.543	0.72	0.77	NO	102.5
41	Total-tetradioxins	319.8965	26.35	0.000	1.049	0.000	0.168	1.00	0.77	YES	36.0
41	Total-tetradioxins	319.8965	26.05	0.000	1.049	0.000	0.033	1.46	0.77	YES	11.9
41	Total-tetradioxins	319.8965	25.91	13247.743	1.049	0.412	0.412	0.72	0.77	NO	77.5
41	Total-tetradioxins	319.8965	25.69	0.000	1.049	0.000	0.051	1.19	0.77	YES	15.2
41	Total-tetradioxins	319.8965	25.60	1199.846	1.049	0.037	0.037	0.74	0.77	NO	6.1
41	Total-tetradioxins	319.8965	25.33	11122.121	1.049	0.346	0.346	0.79	0.77	NO	67.0
41	Total-tetradioxins	319.8965	25.06	0.000	1.049	0.000	0.119	0.65	0.77	YES	20.1
41	Total-tetradioxins	319.8965	24.84	10552.740	1.049	0.328	0.328	0.75	0.77	NO	63.4
41	Total-tetradioxins	319.8965	24.34	0.000	1.049	0.000	0.066	1.03	0.77	YES	17.0
41	Total-tetradioxins	319.8965	24.12	8007.999	1.049	0.249	0.249	0.78	0.77	NO	49.1
41	Total-tetradioxins	319.8965	23.87	12443.910	1.049	0.387	0.387	0.71	0.77	NO	68.2

PD

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
42	Total-pentadioxins	355.8546	30.75	0.000	0.998	0.000	0.265	1.63	1.55	NO	41.9
42	Total-pentadioxins	355.8546	30.70	0.000	0.998	0.000	0.091	0.81	1.55	YES	28.6
42	Total-pentadioxins	355.8546	30.58	6597.987	0.998	0.295	0.295	1.61	1.55	NO	53.3
42	Total-pentadioxins	355.8546	30.44	11718.873	0.998	0.524	0.524	1.50	1.55	NO	81.7
42	Total-pentadioxins	355.8546	30.23	0.000	0.998	0.000	0.361	1.81	1.55	YES	77.0
42	Total-pentadioxins	355.8546	29.61	7896.340	0.998	0.353	0.353	1.38	1.55	NO	55.7
42	Total-pentadioxins	355.8546	29.14	21067.702	0.998	0.942	0.942	1.46	1.55	NO	97.1
42	Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.118	1.31	1.55	YES	21.7
12	12378-PeCDD	355.8546	31.82	13717.298	0.998	0.613	0.613	1.49	1.55	NO	94.1
42	Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.134	1.49	1.55	NO	18.8

HD

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
15	123789-HxCDD	389.8157	37.04	30524.977	0.932	1.485	1.485	1.19	1.24	NO	145.9
43	Total-hexadioxins	389.8157	36.79	8326.865	0.940	0.402	0.402	1.35	1.24	NO	42.5
14	123678-HxCDD	389.8157	36.61	42535.615	0.918	2.080	2.080	1.27	1.24	NO	195.7
13	123478-HxCDD	389.8157	36.48	16204.778	0.971	0.765	0.765	1.18	1.24	NO	82.6
43	Total-hexadioxins	389.8157	35.62	12130.682	0.940	0.585	0.585	1.20	1.24	NO	62.3
43	Total-hexadioxins	389.8157	35.52	126869.653	0.940	6.119	6.119	1.24	1.24	NO	384.6
43	Total-hexadioxins	389.8157	35.12	26102.921	0.940	1.259	1.259	1.28	1.24	NO	124.6
43	Total-hexadioxins	389.8157	34.31	112581.656	0.940	5.430	5.430	1.25	1.24	NO	545.6

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HPD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
16	1234678-HpCDD	423.7766	41.35	949124.000	1.017	52.867	52.867	1.04	1.05	NO	1437.6
44	Total-heptadioxins	423.7766	40.09	1442899.251	1.017	80.370	80.370	1.04	1.05	NO	2369.6

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
41	Total-tetradoxins	319.8965	27.30	0.000	1.049	0.000	0.069	0.89	0.77	YES	11.9
41	Total-tetradoxins	319.8965	26.85	0.000	1.049	0.000	0.085	0.96	0.77	YES	17.5
11	2378-TCDD	319.8965	26.72	17455.432	1.049	0.543	0.543	0.72	0.77	NO	102.5
41	Total-tetradoxins	319.8965	26.35	0.000	1.049	0.000	0.168	1.00	0.77	YES	36.0
41	Total-tetradoxins	319.8965	26.05	0.000	1.049	0.000	0.033	1.46	0.77	YES	11.9
41	Total-tetradoxins	319.8965	25.91	13247.743	1.049	0.412	0.412	0.72	0.77	NO	77.5
41	Total-tetradoxins	319.8965	25.69	0.000	1.049	0.000	0.051	1.19	0.77	YES	15.2
41	Total-tetradoxins	319.8965	25.60	1199.846	1.049	0.037	0.037	0.74	0.77	NO	6.1
41	Total-tetradoxins	319.8965	25.33	11122.121	1.049	0.346	0.346	0.79	0.77	NO	67.0
41	Total-tetradoxins	319.8965	25.06	0.000	1.049	0.000	0.119	0.65	0.77	YES	20.1
41	Total-tetradoxins	319.8965	24.84	10552.740	1.049	0.328	0.328	0.75	0.77	NO	63.4
41	Total-tetradoxins	319.8965	24.34	0.000	1.049	0.000	0.066	1.03	0.77	YES	17.0
41	Total-tetradoxins	319.8965	24.12	8007.999	1.049	0.249	0.249	0.78	0.77	NO	49.1
41	Total-tetradoxins	319.8965	23.87	12443.910	1.049	0.387	0.387	0.71	0.77	NO	68.2
42	Total-pentadioxins	355.8546	30.75	0.000	0.998	0.000	0.265	1.63	1.55	NO	41.9
42	Total-pentadioxins	355.8546	30.70	0.000	0.998	0.000	0.091	0.81	1.55	YES	28.6
42	Total-pentadioxins	355.8546	30.58	6597.987	0.998	0.295	0.295	1.61	1.55	NO	53.3
42	Total-pentadioxins	355.8546	30.44	11718.873	0.998	0.524	0.524	1.50	1.55	NO	81.7
42	Total-pentadioxins	355.8546	30.23	0.000	0.998	0.000	0.361	1.81	1.55	YES	77.0
42	Total-pentadioxins	355.8546	29.61	7896.340	0.998	0.353	0.353	1.38	1.55	NO	55.7
42	Total-pentadioxins	355.8546	29.14	21067.702	0.998	0.942	0.942	1.46	1.55	NO	97.1
42	Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.118	1.31	1.55	YES	21.7
12	12378-PeCDD	355.8546	31.82	13717.298	0.998	0.613	0.613	1.49	1.55	NO	94.1
42	Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.134	1.49	1.55	NO	18.8
15	123789-HxCDD	389.8157	37.04	30524.977	0.932	1.485	1.485	1.19	1.24	NO	145.9
43	Total-hexadioxins	389.8157	36.79	8326.865	0.940	0.402	0.402	1.35	1.24	NO	42.5
14	123678-HxCDD	389.8157	36.61	42535.615	0.918	2.080	2.080	1.27	1.24	NO	195.7
13	123478-HxCDD	389.8157	36.48	16204.778	0.971	0.765	0.765	1.18	1.24	NO	82.6
43	Total-hexadioxins	389.8157	35.62	12130.682	0.940	0.585	0.585	1.20	1.24	NO	62.3
43	Total-hexadioxins	389.8157	35.52	126869.653	0.940	6.119	6.119	1.24	1.24	NO	384.6
43	Total-hexadioxins	389.8157	35.12	26102.921	0.940	1.259	1.259	1.28	1.24	NO	124.6
43	Total-hexadioxins	389.8157	34.31	112581.656	0.940	5.430	5.430	1.25	1.24	NO	545.6
16	1234678-HpCDD	423.7766	41.35	949124.000	1.017	52.867	52.867	1.04	1.05	NO	1437.6
44	Total-heptadioxins	423.7766	40.09	1442899.251	1.017	80.370	80.370	1.04	1.05	NO	2369.6
17	OCDD	457.7377	47.28	5550140.000	1.008	446.871	446....	0.88	0.89	NO	14498.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
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Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
35	Total-tetrafurans	303.9016	24.82	33860.123	0.877	0.878	0.878	0.79	0.77	NO	139.8
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.224	0.53	0.77	YES	36.3
35	Total-tetrafurans	303.9016	24.32	10781.640	0.877	0.280	0.280	0.74	0.77	NO	44.4
35	Total-tetrafurans	303.9016	24.18	7782.666	0.877	0.202	0.202	0.72	0.77	NO	36.0
35	Total-tetrafurans	303.9016	24.08	12988.165	0.877	0.337	0.337	0.72	0.77	NO	56.4
35	Total-tetrafurans	303.9016	23.93	5308.608	0.877	0.138	0.138	0.76	0.77	NO	28.9
35	Total-tetrafurans	303.9016	23.82	14691.414	0.877	0.381	0.381	0.79	0.77	NO	59.9
35	Total-tetrafurans	303.9016	23.73	17311.789	0.877	0.449	0.449	0.81	0.77	NO	57.6
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.150	0.42	0.77	YES	32.1
35	Total-tetrafurans	303.9016	23.55	5014.700	0.877	0.130	0.130	0.78	0.77	NO	23.8
35	Total-tetrafurans	303.9016	23.42	26041.186	0.877	0.675	0.675	0.76	0.77	NO	107.4
35	Total-tetrafurans	303.9016	22.84	7057.236	0.877	0.183	0.183	0.74	0.77	NO	29.6
35	Total-tetrafurans	303.9016	22.58	0.000	0.877	0.000	0.091	0.55	0.77	YES	14.3
35	Total-tetrafurans	303.9016	26.30	14359.107	0.877	0.372	0.372	0.77	0.77	NO	57.5
35	Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.090	0.60	0.77	YES	17.8
1	2378-TCDF	303.9016	26.08	17724.087	0.877	0.460	0.460	0.73	0.77	NO	77.1
35	Total-tetrafurans	303.9016	25.84	16437.849	0.877	0.426	0.426	0.80	0.77	NO	46.9
35	Total-tetrafurans	303.9016	25.58	0.000	0.877	0.000	0.072	0.52	0.77	YES	12.0
35	Total-tetrafurans	303.9016	25.39	4936.714	0.877	0.128	0.128	0.83	0.77	NO	19.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.574	0.64	0.77	YES	98.1
35	Total-tetrafurans	303.9016	24.99	15746.227	0.877	0.408	0.408	0.67	0.77	NO	65.5
37	Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.035	1.39	1.55	NO	6.1
37	Total-pentafurans	339.8597	29.28	0.000	0.911	0.000	0.024	0.97	1.55	YES	3.7
37	Total-pentafurans	339.8597	29.15	41608.504	0.911	1.286	1.286	1.40	1.55	NO	192.4
37	Total-pentafurans	339.8597	29.09	17524.723	0.911	0.542	0.542	1.68	1.55	NO	89.8
37	Total-pentafurans	339.8597	28.95	13483.287	0.911	0.417	0.417	1.35	1.55	NO	53.7
37	Total-pentafurans	339.8597	28.86	2331.935	0.911	0.072	0.072	1.63	1.55	NO	14.0
3	23478-PeCDF	339.8597	31.56	14696.714	0.926	0.450	0.450	1.34	1.55	NO	61.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.271	1.17	1.55	YES	35.8
37	Total-pentafurans	339.8597	31.30	5784.379	0.911	0.179	0.179	1.53	1.55	NO	27.4
37	Total-pentafurans	339.8597	31.07	0.000	0.911	0.000	0.011	2.37	1.55	YES	3.5
37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.075	0.90	1.55	YES	14.3
37	Total-pentafurans	339.8597	30.42	8630.051	0.911	0.267	0.267	1.52	1.55	NO	38.3
2	12378-PeCDF	339.8597	30.22	16821.588	0.896	0.000	0.477	1.23	1.55	YES	75.3
37	Total-pentafurans	339.8597	29.86	19589.589	0.911	0.605	0.605	1.53	1.55	NO	55.3
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.075	1.27	1.55	YES	14.3
37	Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.079	1.79	1.55	YES	12.0
38	Total-hexafurans	373.8208	34.60	167578.648	1.032	6.136	6.136	1.20	1.24	NO	836.7
38	Total-hexafurans	373.8208	34.27	3990.949	1.032	0.146	0.146	1.13	1.24	NO	18.5
38	Total-hexafurans	373.8208	33.99	705.091	1.032	0.026	0.026	1.24	1.24	NO	5.0
38	Total-hexafurans	373.8208	33.73	132279.512	1.032	4.843	4.843	1.11	1.24	NO	620.1
38	Total-hexafurans	373.8208	33.51	39575.976	1.032	1.449	1.449	1.17	1.24	NO	201.2
7	123789-HxCDF	373.8208	37.45	9475.385	0.987	0.334	0.334	1.14	1.24	NO	47.0
5	234678-HxCDF	373.8208	36.34	27176.126	1.037	1.062	1.062	1.29	1.24	NO	104.1
38	Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.052	0.85	1.24	YES	7.4
6	123678-HxCDF	373.8208	35.39	15615.549	1.035	0.562	0.562	1.27	1.24	NO	77.1
4	123478-HxCDF	373.8208	35.24	44780.942	1.068	1.636	1.636	1.22	1.24	NO	232.3
38	Total-hexafurans	373.8208	35.08	7208.886	1.032	0.264	0.264	1.17	1.24	NO	32.5
9	1234789-HpCDF	407.7818	42.25	18818.223	1.215	0.936	0.936	0.91	1.05	NO	62.8

VR82: 00072

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

Table with columns: # Name, Trace, RT, Abs Resp, RPF M, pg, EMPC, 1st Rat, 1st Rat, 1st R, S/N. Rows list various chemical compounds like Total-heptafurans, 1234678-HpCDF, OCDF, Total-penta1, Total-tetradoxins, 2378-TCDD, Total-pentadoxins, 12378-PeCDD, 123789-HxCDD, Total-hexadoxins, 123478-HxCDD, Total-heptadoxins, and OCDD with their respective values.

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PFK1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat.	1° Rat.	1° R.	SN
1	48 FUNCTION1 PFK	330.9792	21.43	0.000							4.5
2	48 FUNCTION1 PFK	330.9792	21.39	0.000							4.2
3	48 FUNCTION1 PFK	330.9792	21.33	0.000							5.5
4	48 FUNCTION1 PFK	330.9792	21.27	0.000							5.1
5	48 FUNCTION1 PFK	330.9792	21.16	0.000							5.6
6	48 FUNCTION1 PFK	330.9792	21.10	0.000							6.5
7	48 FUNCTION1 PFK	330.9792	25.05	0.000							0.7
8	48 FUNCTION1 PFK	330.9792	24.99	0.000							0.8
9	48 FUNCTION1 PFK	330.9792	24.82	0.000							0.9
10	48 FUNCTION1 PFK	330.9792	24.45	0.000							0.8
11	48 FUNCTION1 PFK	330.9792	23.19	0.000							2.0
12	48 FUNCTION1 PFK	330.9792	23.08	0.000							1.4
13	48 FUNCTION1 PFK	330.9792	22.96	0.000							0.6
14	48 FUNCTION1 PFK	330.9792	22.79	0.000							1.4
15	48 FUNCTION1 PFK	330.9792	22.69	0.000							0.8
16	48 FUNCTION1 PFK	330.9792	22.28	0.000							1.1
17	48 FUNCTION1 PFK	330.9792	22.15	0.000							1.0
18	48 FUNCTION1 PFK	330.9792	21.98	0.000							1.2
19	48 FUNCTION1 PFK	330.9792	21.94	0.000							1.7
20	48 FUNCTION1 PFK	330.9792	21.88	0.000							1.4
21	48 FUNCTION1 PFK	330.9792	21.70	0.000							6.2
22	48 FUNCTION1 PFK	330.9792	21.54	0.000							4.6
23	48 FUNCTION1 PFK	330.9792	27.65	0.000							1.5
24	48 FUNCTION1 PFK	330.9792	27.24	0.000							0.6
25	48 FUNCTION1 PFK	330.9792	26.35	0.000							1.6
26	48 FUNCTION1 PFK	330.9792	26.09	0.000							0.7
27	48 FUNCTION1 PFK	330.9792	25.81	0.000							0.7
28	48 FUNCTION1 PFK	330.9792	25.57	0.000							0.9
29	48 FUNCTION1 PFK	330.9792	25.23	0.000							0.8

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK2

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
49	FUNCTION2 PFK	366.9792	29.35	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	29.27	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	29.06	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	28.95	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.75	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	28.71	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.57	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	28.52	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	32.00	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	31.92	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	31.86	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	31.60	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	31.11	0.000		0.000					2.6
49	FUNCTION2 PFK	366.9792	31.03	0.000		0.000					1.8
49	FUNCTION2 PFK	366.9792	30.96	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	30.85	0.000		0.000					2.1
49	FUNCTION2 PFK	366.9792	30.78	0.000		0.000					2.3
49	FUNCTION2 PFK	366.9792	30.73	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	30.65	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	30.10	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	29.94	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	29.81	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	29.66	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	29.59	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	33.06	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	32.61	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	32.57	0.000		0.000					0.7

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
50	FUNCTION3 PFK	380.9760	37.85	0.000		0.000					0.5
50	FUNCTION3 PFK	380.9760	37.45	0.000		0.000					14.3
50	FUNCTION3 PFK	380.9760	37.36	0.000		0.000					14.8
50	FUNCTION3 PFK	380.9760	37.23	0.000		0.000					4.9
50	FUNCTION3 PFK	380.9760	36.78	0.000		0.000					2.0
50	FUNCTION3 PFK	380.9760	36.24	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	34.15	0.000		0.000					5.0
50	FUNCTION3 PFK	380.9760	34.04	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	33.98	0.000		0.000					2.3

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK4

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
51	FUNCTION4 PFK	430.9728	38.59	0.000							0.4
51	FUNCTION4 PFK	430.9728	38.58	0.000							0.5
51	FUNCTION4 PFK	430.9728	41.35	0.000							1.4
51	FUNCTION4 PFK	430.9728	41.28	0.000							0.5
51	FUNCTION4 PFK	430.9728	41.24	0.000							1.2
51	FUNCTION4 PFK	430.9728	41.18	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.73	0.000							1.0
51	FUNCTION4 PFK	430.9728	40.26	0.000							0.8
51	FUNCTION4 PFK	430.9728	40.02	0.000							1.5
51	FUNCTION4 PFK	430.9728	39.98	0.000							0.4
51	FUNCTION4 PFK	430.9728	39.81	0.000							1.0
51	FUNCTION4 PFK	430.9728	39.75	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.70	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.59	0.000							1.3
51	FUNCTION4 PFK	430.9728	39.54	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.20	0.000							0.7
51	FUNCTION4 PFK	430.9728	39.07	0.000							0.3
51	FUNCTION4 PFK	430.9728	38.65	0.000							1.2
51	FUNCTION4 PFK	430.9728	44.79	0.000							0.9
51	FUNCTION4 PFK	430.9728	44.33	0.000							0.3
51	FUNCTION4 PFK	430.9728	44.01	0.000							1.1
51	FUNCTION4 PFK	430.9728	43.97	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.38	0.000							1.3
51	FUNCTION4 PFK	430.9728	42.72	0.000							0.4
51	FUNCTION4 PFK	430.9728	42.61	0.000							0.4
51	FUNCTION4 PFK	430.9728	42.47	0.000							1.0
51	FUNCTION4 PFK	430.9728	42.15	0.000							1.6
51	FUNCTION4 PFK	430.9728	42.05	0.000							0.4
51	FUNCTION4 PFK	430.9728	41.95	0.000							0.7
51	FUNCTION4 PFK	430.9728	41.82	0.000							0.4

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.76	0.000							1.4
2	52 FUNCTION5 PFK	480.9696	45.49	0.000							0.6
3	52 FUNCTION5 PFK	480.9696	45.25	0.000							1.4
4	52 FUNCTION5 PFK	480.9696	48.70	0.000							0.7
5	52 FUNCTION5 PFK	480.9696	48.58	0.000							0.8
6	52 FUNCTION5 PFK	480.9696	48.50	0.000							0.6
7	52 FUNCTION5 PFK	480.9696	48.37	0.000							0.7
8	52 FUNCTION5 PFK	480.9696	48.35	0.000							0.5
9	52 FUNCTION5 PFK	480.9696	48.06	0.000							0.6
10	52 FUNCTION5 PFK	480.9696	47.70	0.000							0.9
11	52 FUNCTION5 PFK	480.9696	47.67	0.000							0.5
12	52 FUNCTION5 PFK	480.9696	47.58	0.000							1.1
13	52 FUNCTION5 PFK	480.9696	46.99	0.000							0.4
14	52 FUNCTION5 PFK	480.9696	46.40	0.000							0.8
15	52 FUNCTION5 PFK	480.9696	46.03	0.000							1.2
16	52 FUNCTION5 PFK	480.9696	45.96	0.000							1.7
17	52 FUNCTION5 PFK	480.9696	45.92	0.000							1.3
18	52 FUNCTION5 PFK	480.9696	45.87	0.000							1.7
19	52 FUNCTION5 PFK	480.9696	45.79	0.000							1.3
20	52 FUNCTION5 PFK	480.9696	48.93	0.000							0.7
21	52 FUNCTION5 PFK	480.9696	48.73	0.000							0.5

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	26.18	0.000		0.000					3.6
2	53 FUNCTION1 HXCD...	375.8364	25.88	0.000		0.000					2.4

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.35	0.000		0.000					2.9
2	54 FUNCTION1 HPCD...	409.7974	27.23	0.000		0.000					1.4
3	54 FUNCTION1 HPCD...	409.7974	26.02	0.000		0.000					1.7
4	54 FUNCTION1 HPCD...	409.7974	24.34	0.000		0.000					1.1
5	54 FUNCTION1 HPCD...	409.7974	23.63	0.000		0.000					2.8
6	54 FUNCTION1 HPCD...	409.7974	23.10	0.000		0.000					1.6
7	54 FUNCTION1 HPCD...	409.7974	22.45	0.000		0.000					2.8
8	54 FUNCTION1 HPCD...	409.7974	21.25	0.000		0.000					3.9

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.65	0.000		0.000					1.5
2	55 FUNCTION2 HPCD...	409.7974	32.91	0.000		0.000					1.9
3	55 FUNCTION2 HPCD...	409.7974	31.97	0.000		0.000					3.3
4	55 FUNCTION2 HPCD...	409.7974	30.21	0.000		0.000					2.0
5	55 FUNCTION2 HPCD...	409.7974	29.87	0.000		0.000					2.6
6	55 FUNCTION2 HPCD...	409.7974	29.83	0.000		0.000					2.4

VR82: 00877

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

ETHERS4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

ETHERS5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
57	FUNCTION4 NCDPE	479.7165	42.60	0.000		0.000					2.8
57	FUNCTION4 NCDPE	479.7165	41.00	0.000		0.000					3.1
57	FUNCTION4 NCDPE	479.7165	39.13	0.000		0.000					879.5

ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

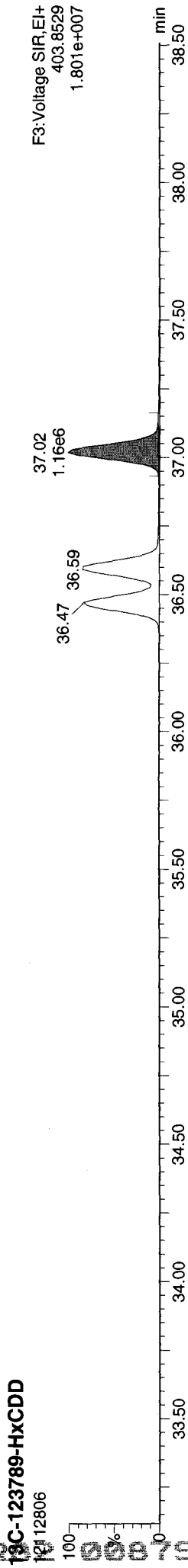
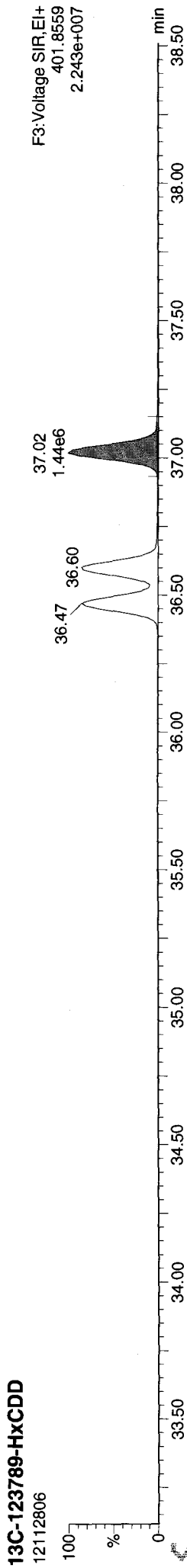
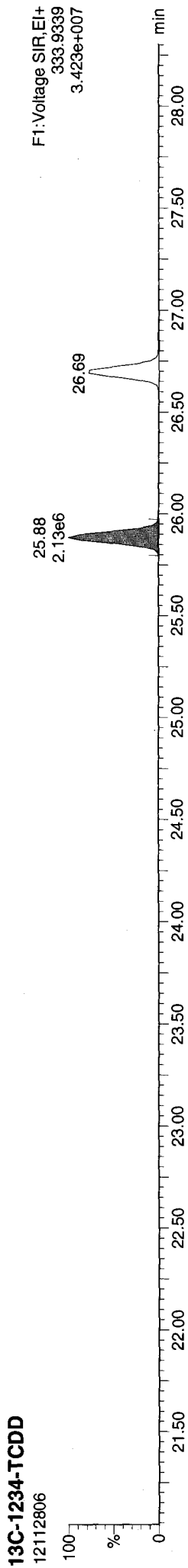
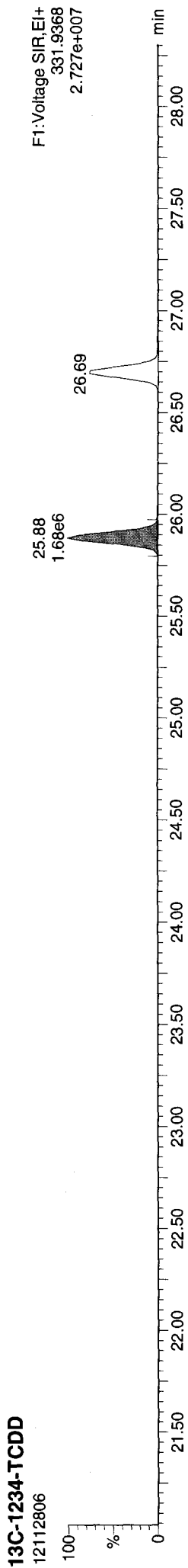
VR82: 00878

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk



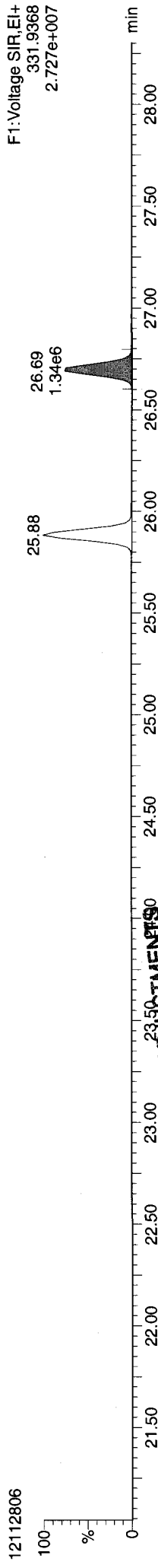
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

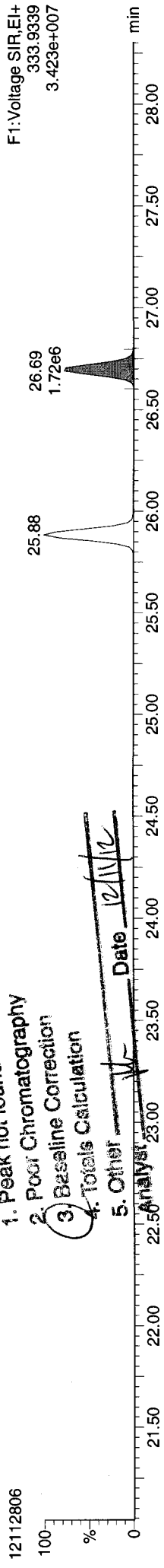
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD



13C-2378-TCDD

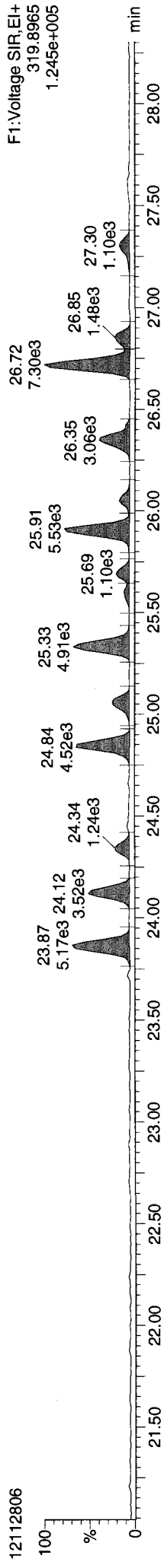


MANUAL ADJUSTMENTS

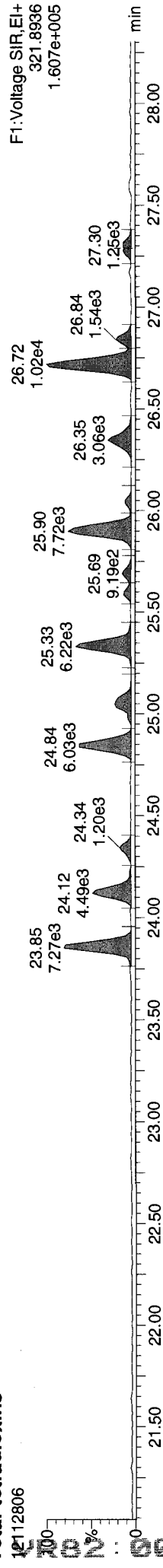
- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other

Date 12/11/12

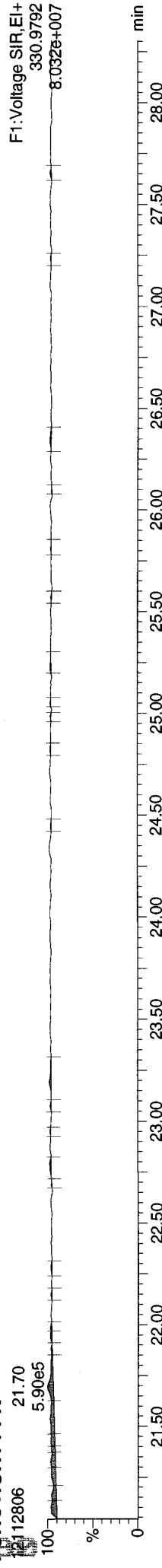
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

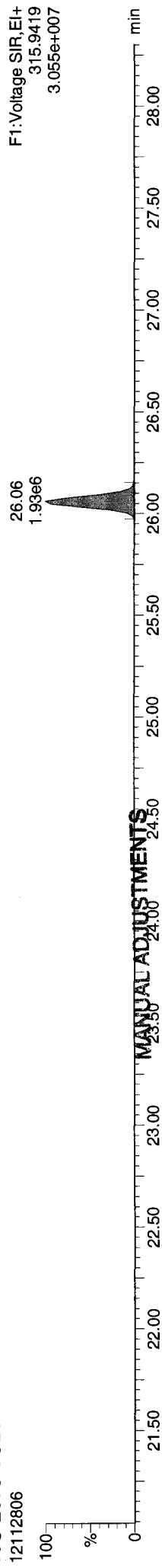
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

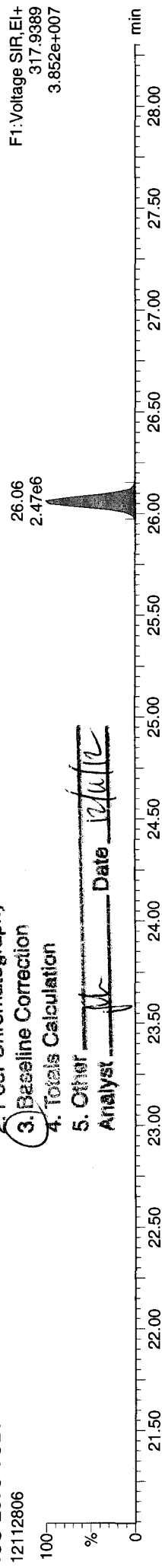
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

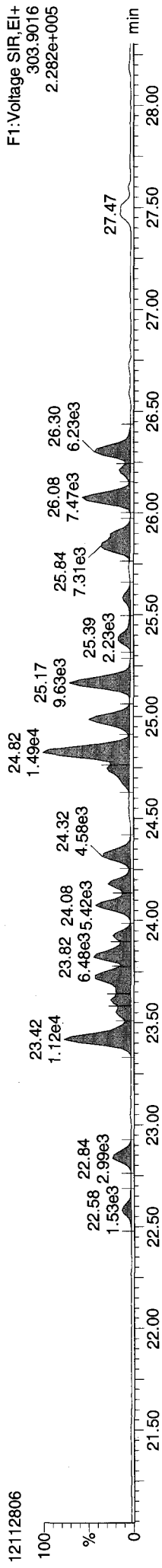
13C-2378-TCDF



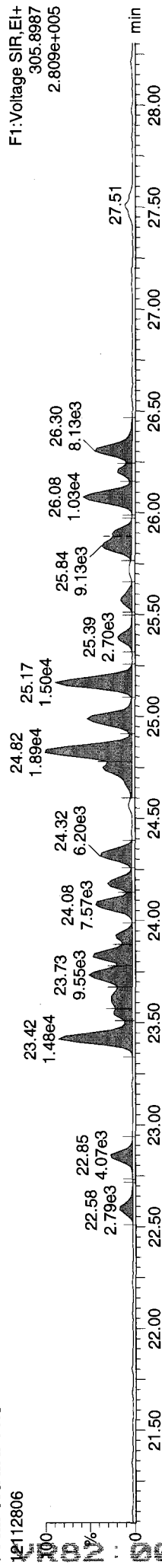
13C-2378-TCDF



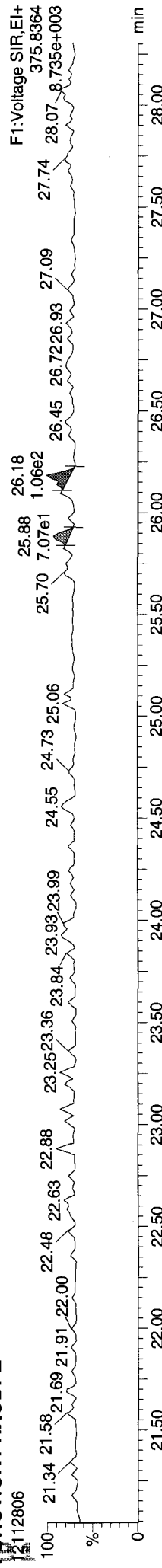
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE



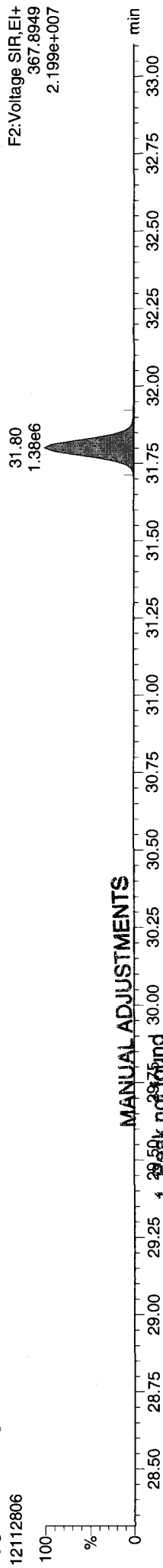
- MANUAL ADJUSTMENTS
1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: [Signature] Date: 12/10/12

Quantify Sample Report MassLynx 4.1 SCN 714

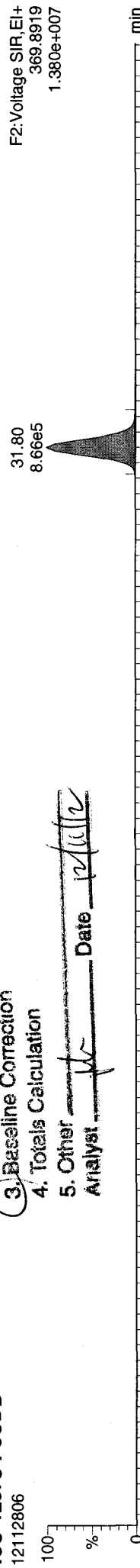
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD



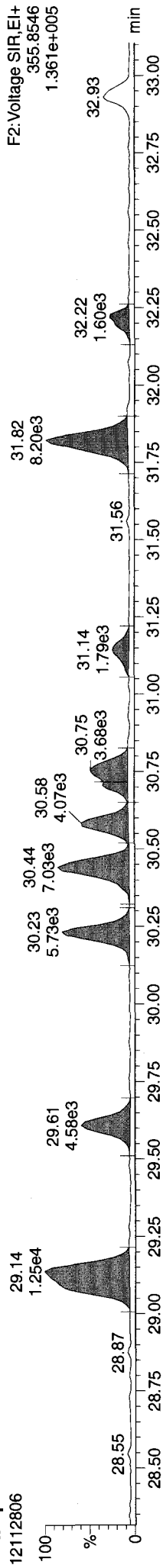
13C-12378-PeCDD



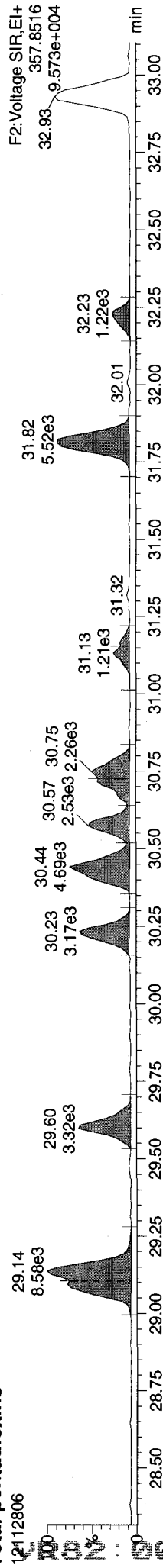
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other *pk* Date *12/10/12*

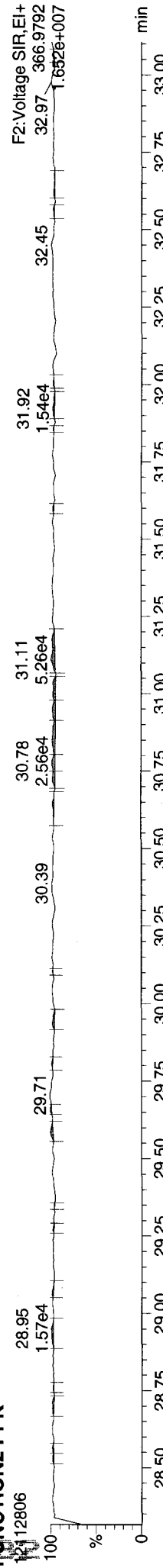
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

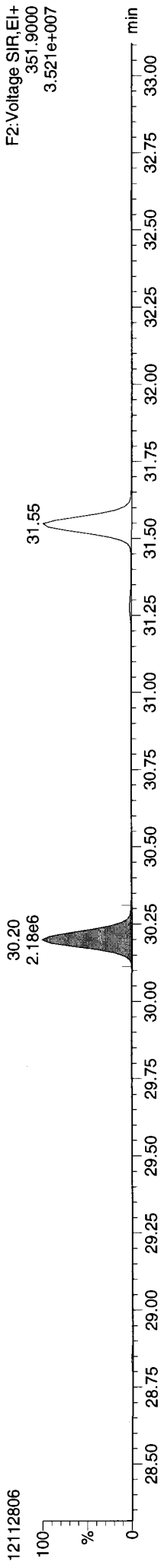
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

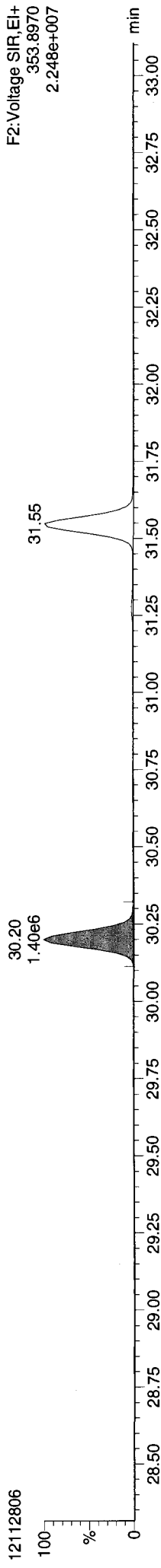
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

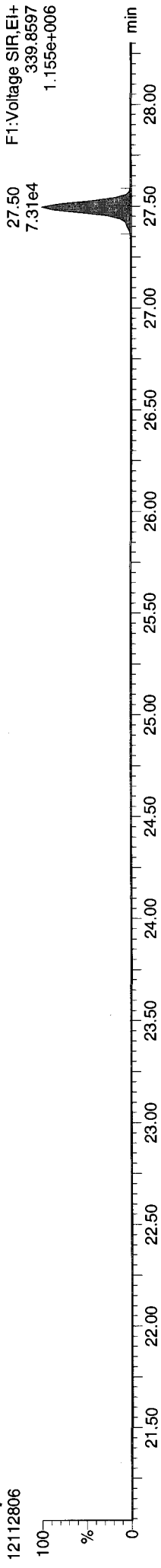
13C-12378-PeCDF



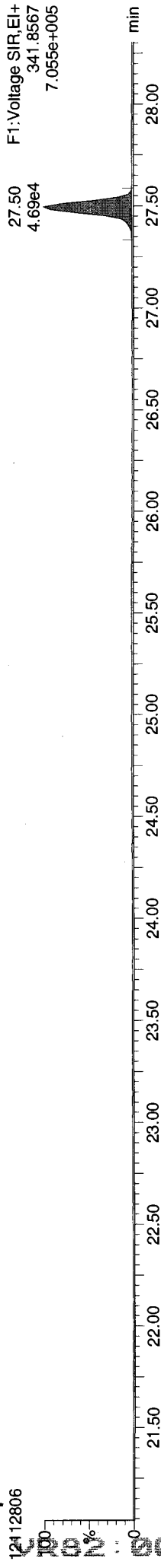
13C-12378-PeCDF



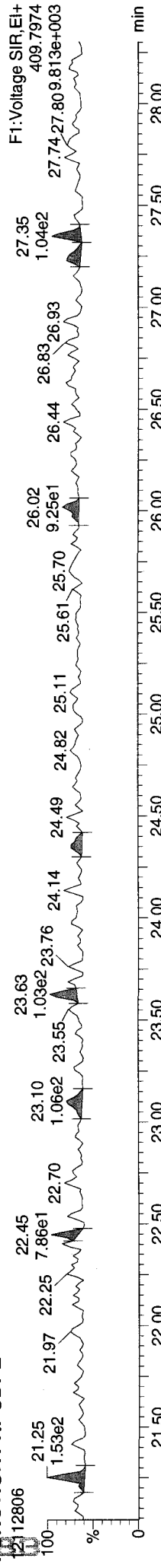
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

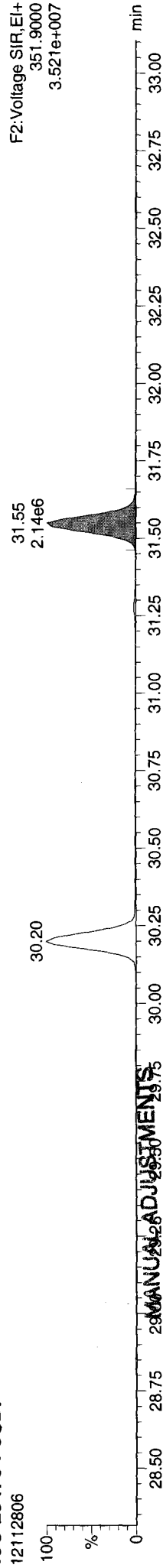


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF



1. Peak not found

2. Poor Chromatography

3. Baseline Correction

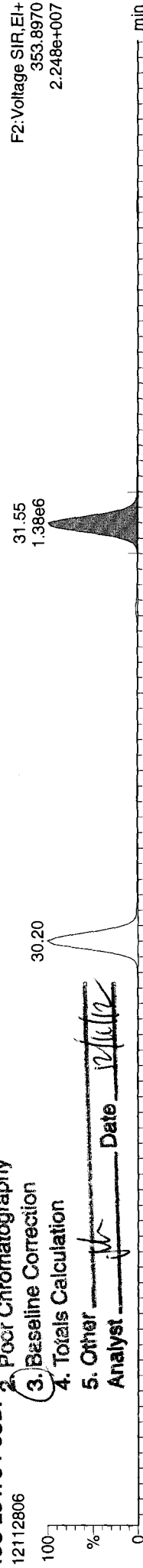
4. Totals Calculation

5. Other
Analyst: [Signature] Date: 12/10/12

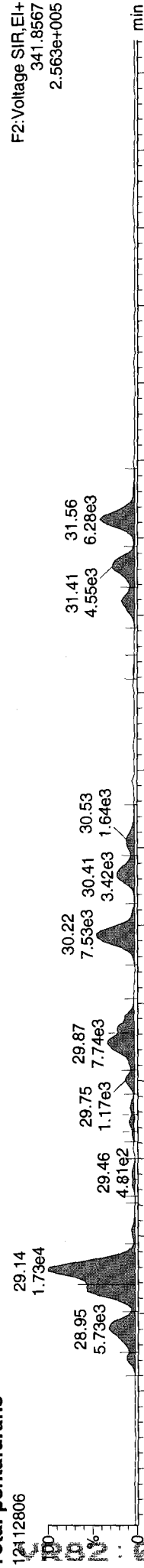
12112806



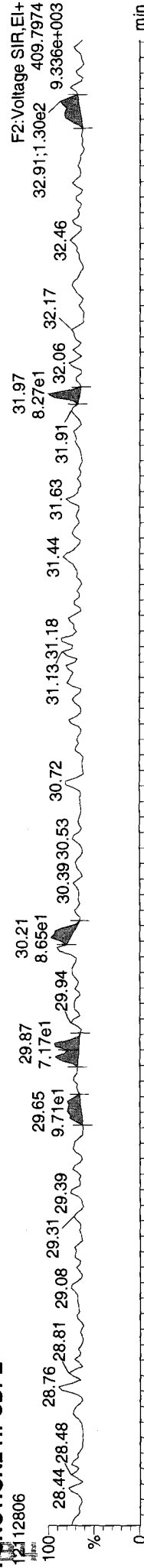
Total-pentafurans



12112806



FUNCTION2 HPCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

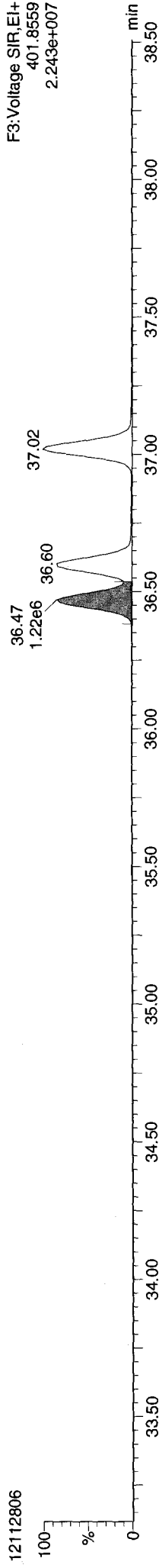
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

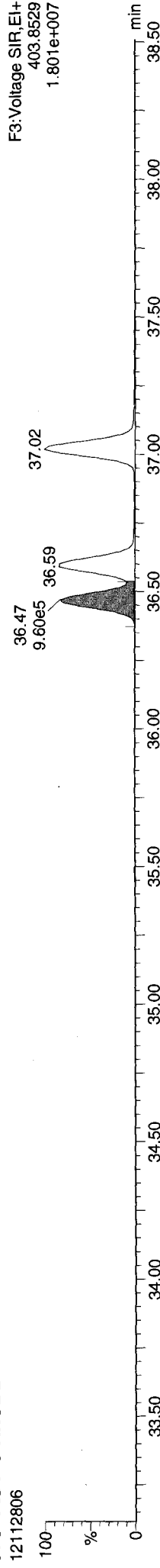
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

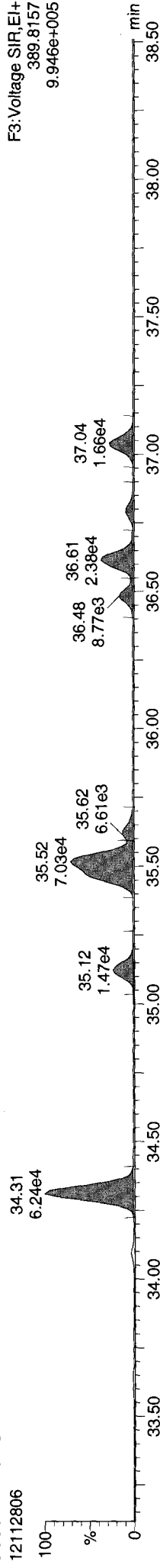
13C-123478-HxCDD



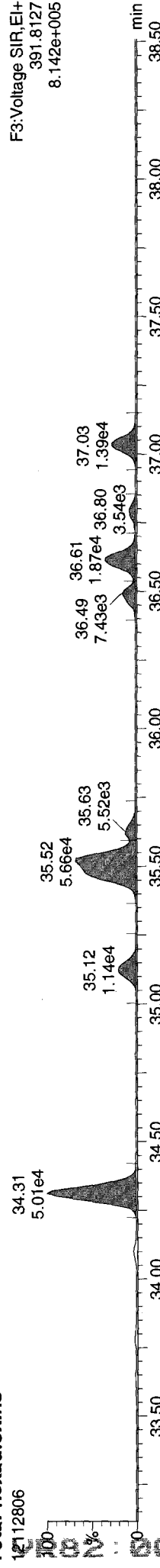
13C-123478-HxCDD



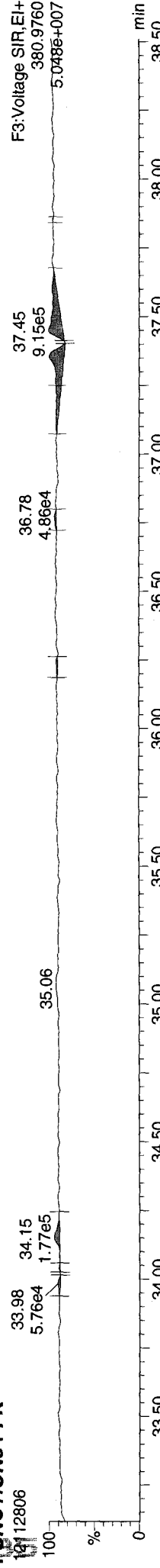
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

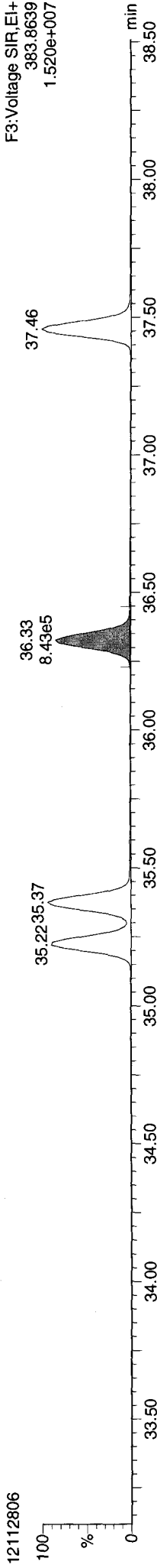
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

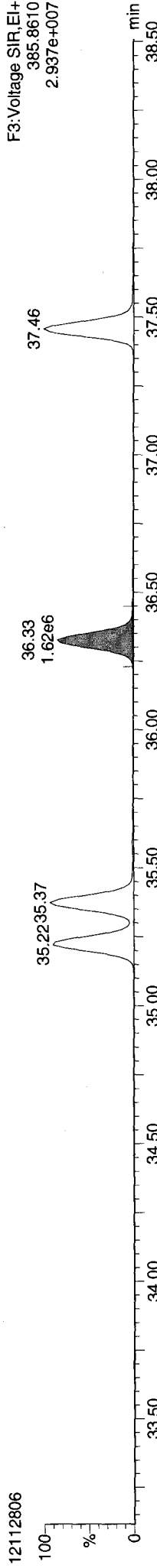
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

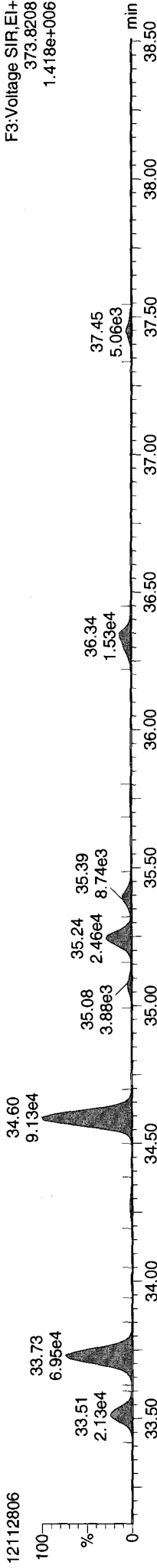
13C-234678-HxCDF



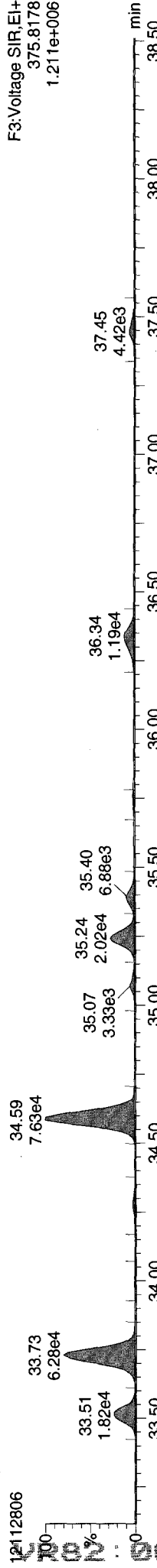
13C-234678-HxCDF



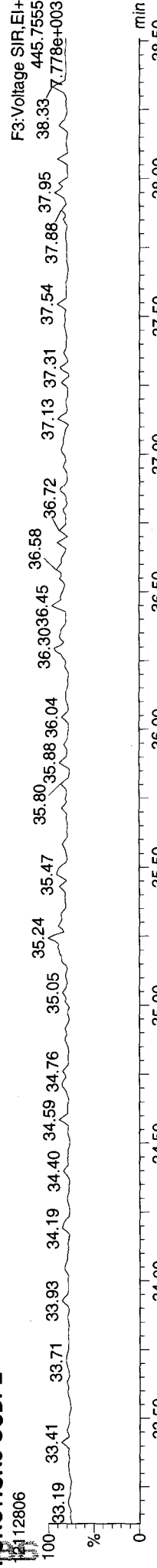
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE

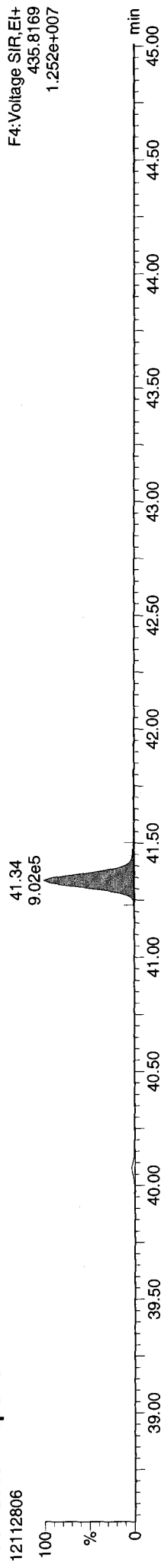


Quantify Sample Report MassLynx 4.1 SCN 714

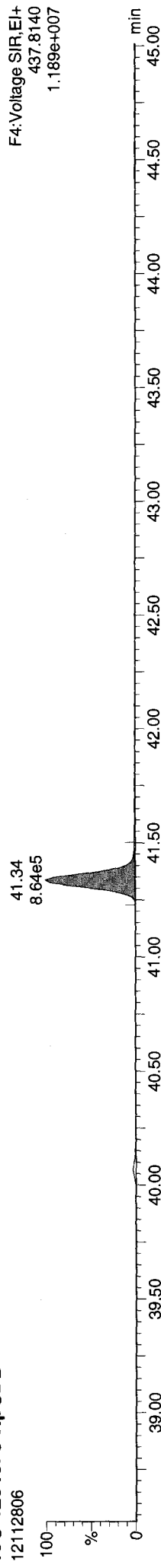
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

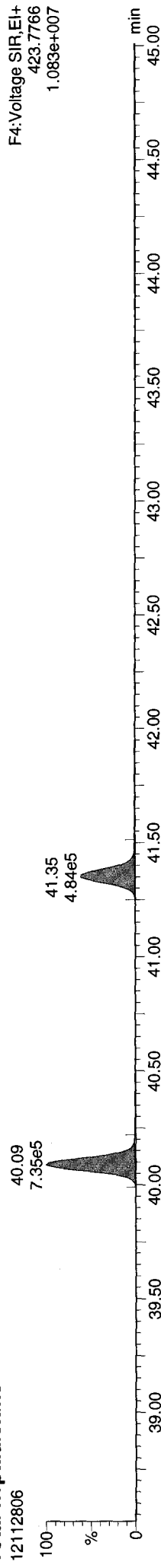
13C-1234678-HpCDD



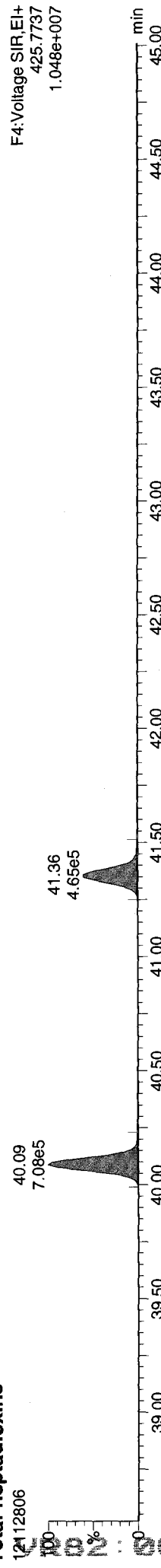
13C-1234678-HpCDD



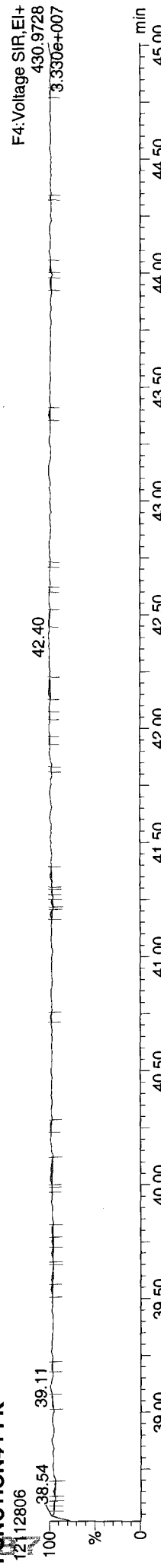
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

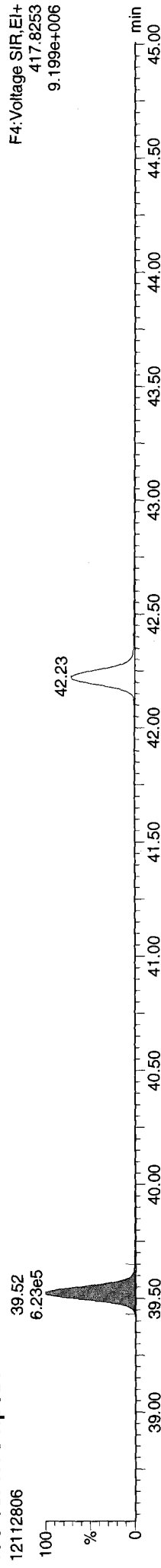
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

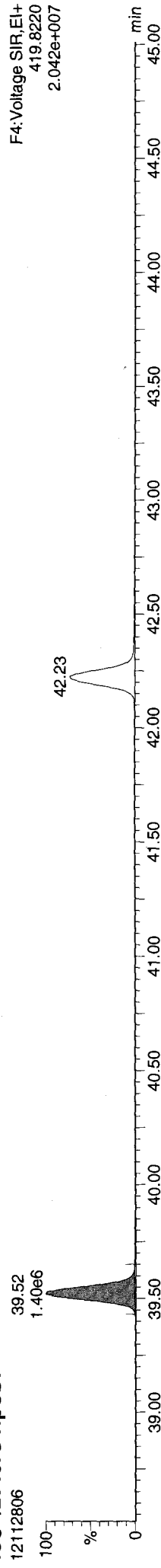
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

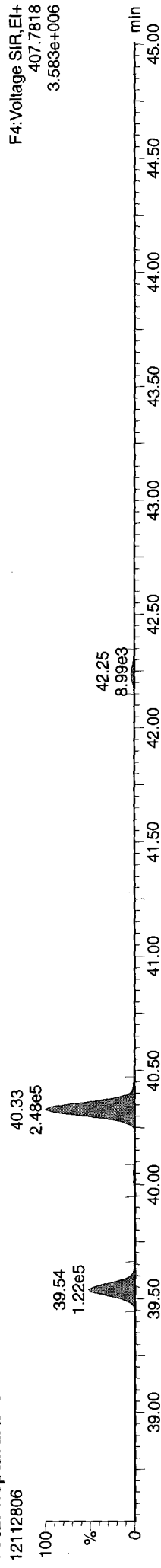
13C-1234678-HpCDF



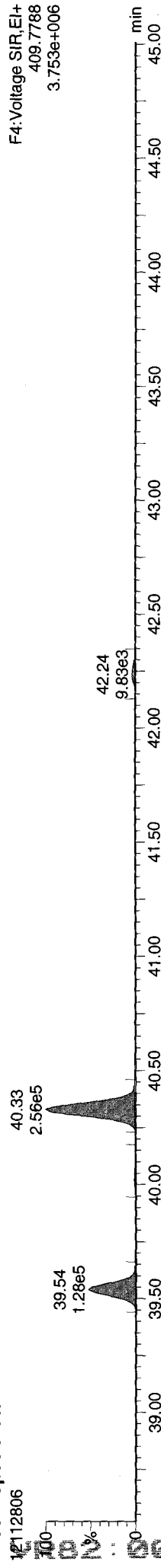
13C-1234678-HpCDF



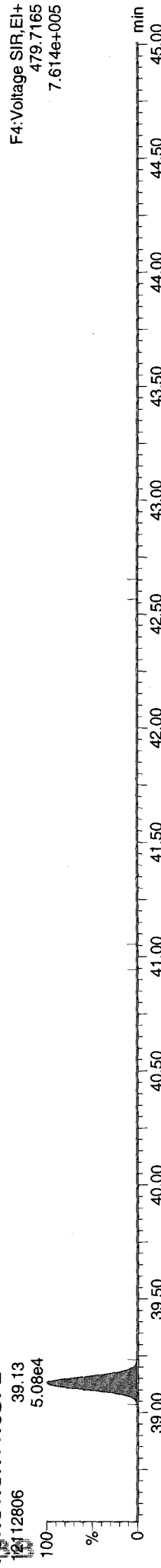
Total-heptafulrans



Total-heptafulrans



FUNCTION4 NCDPE

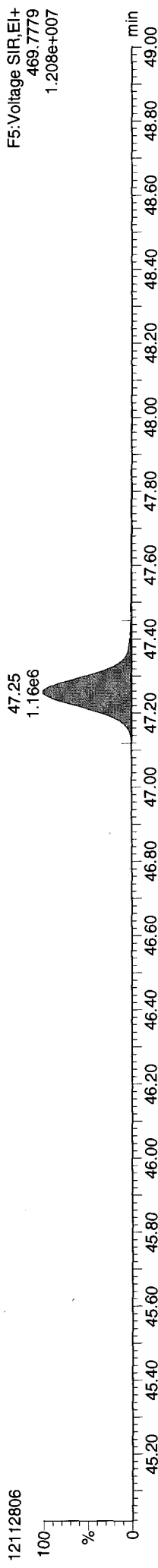


Quantify Sample Report MassLynx 4.1 SCN 714

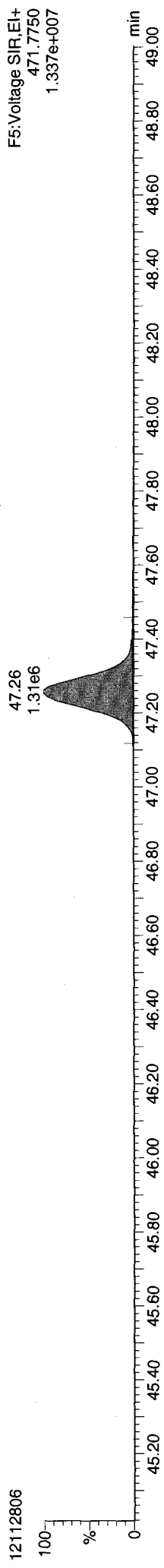
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

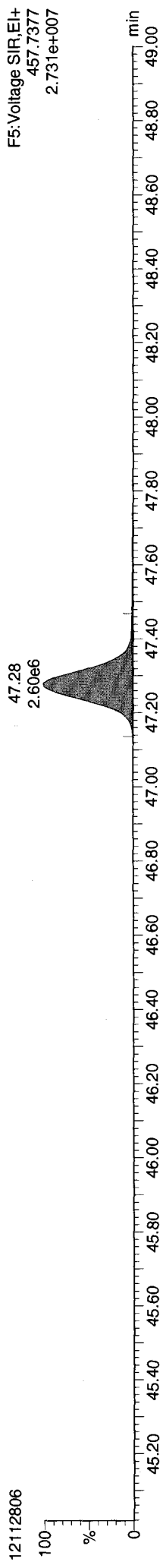
13C-OCDD



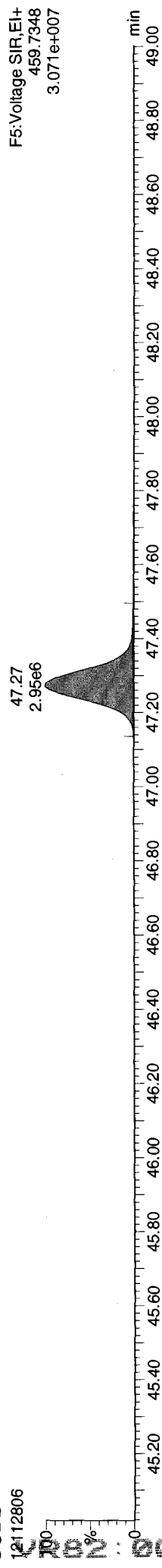
13C-OCDD



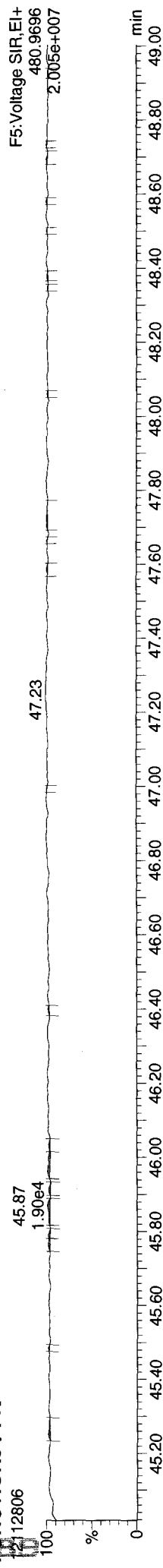
OCDD



OCDD



FUNCTION5 PFK

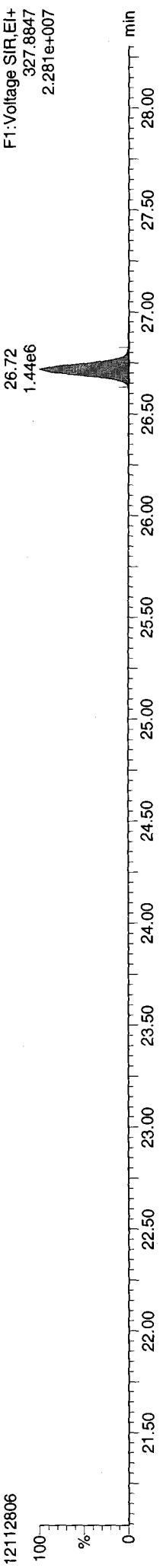


Quantify Sample Report MassLynx 4.1 SCN 714

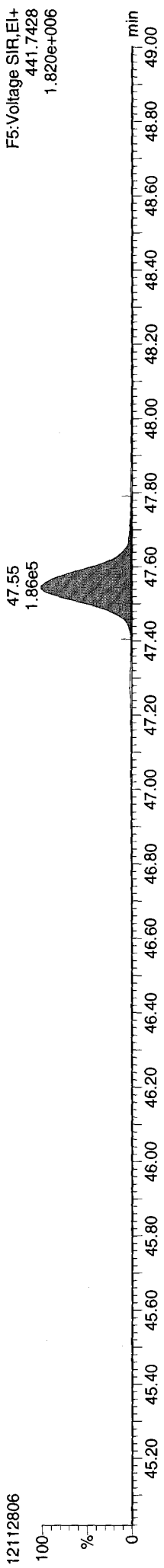
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:37:57 Pacific Standard Time

Name: 12112806, Date: 28-Nov-2012, Time: 13:49:08, ID: VR58SRM, Conditions: AUTOSPEC01, User: pk

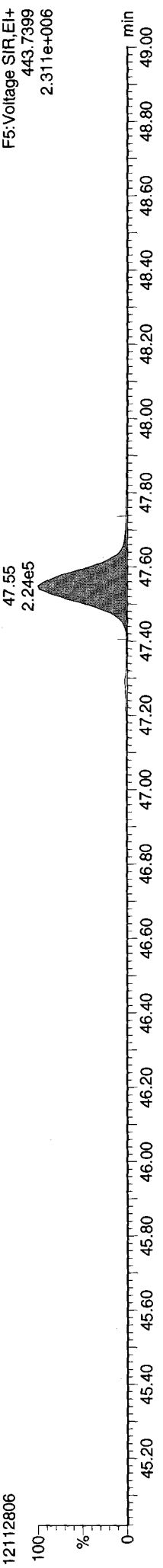
37CL-2378-TCDD



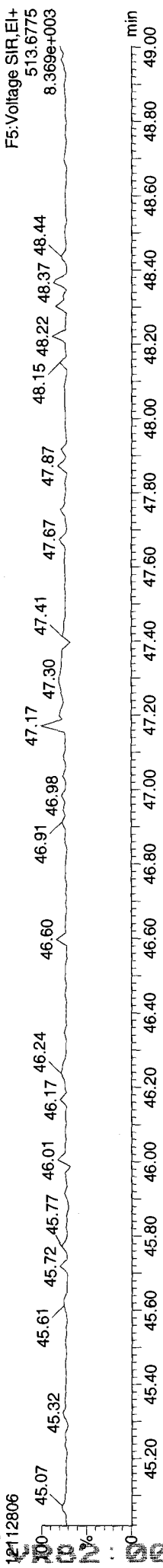
OCDF



OCDF

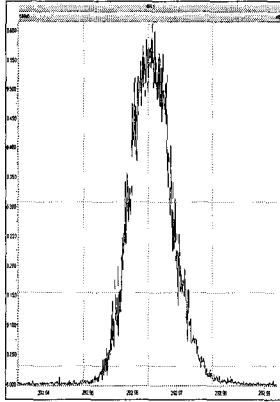


FUNCTION5 DCDPE

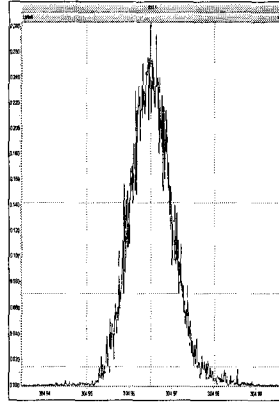


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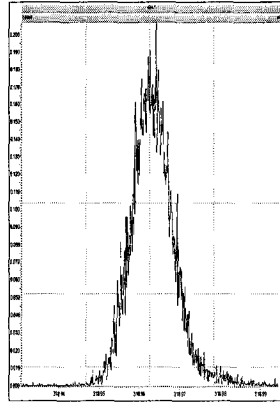
M 292.9824 R 13670



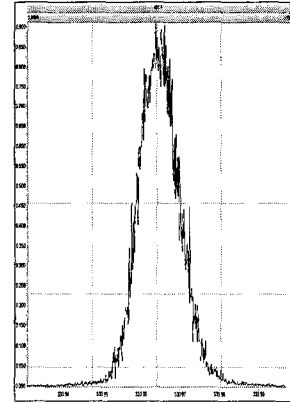
M 304.9824 R 14253



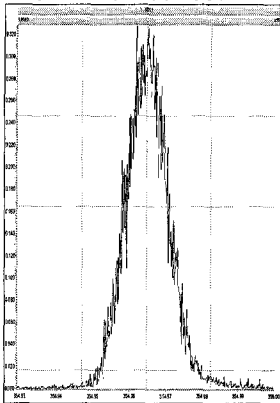
M 318.9792 R 14418



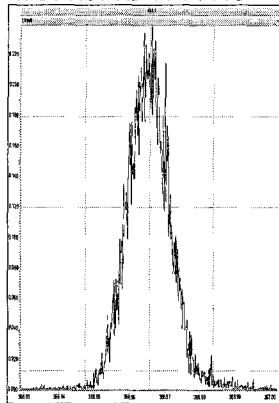
M 330.9792 R 14005



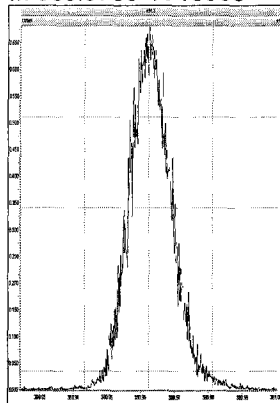
M 354.9792 R 13977



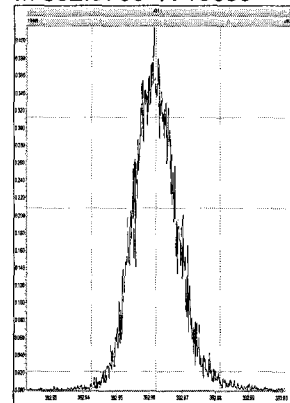
M 366.9792 R 14418



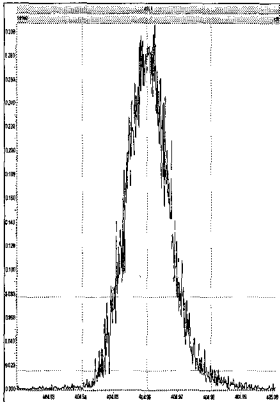
M 380.9760 R 13935



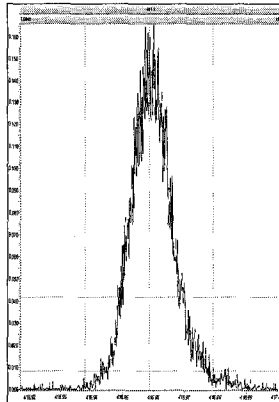
M 392.9760 R 13699



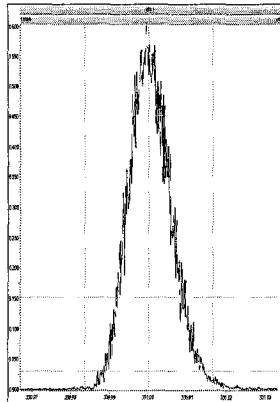
M 404.9760 R 13272



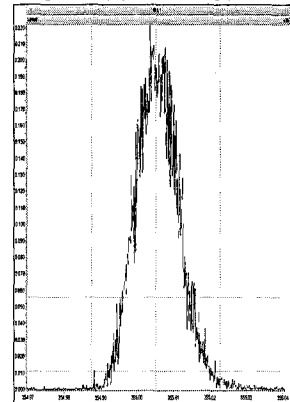
M 416.9760 R 12920



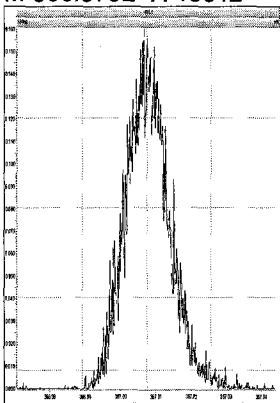
M 330.9792 R 12922



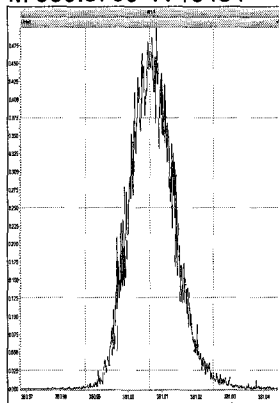
M 354.9792 R 13372



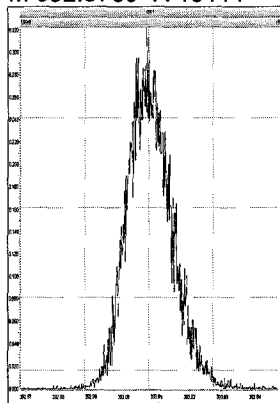
M 366.9792 R 13812



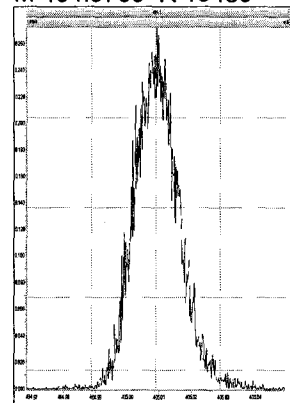
M 380.9760 R 13454



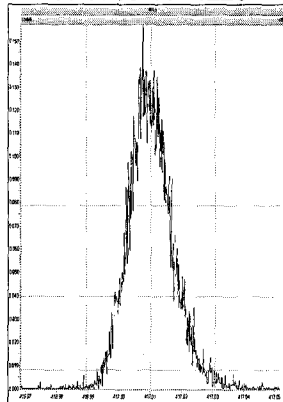
M 392.9760 R 13111



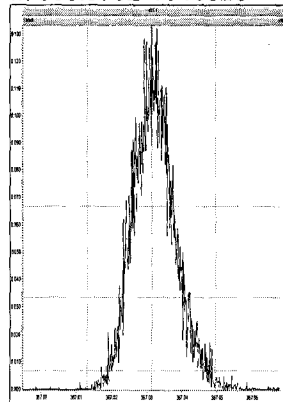
M 404.9760 R 13450



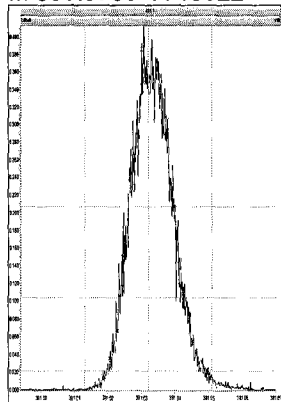
M 416.9760 R 14226



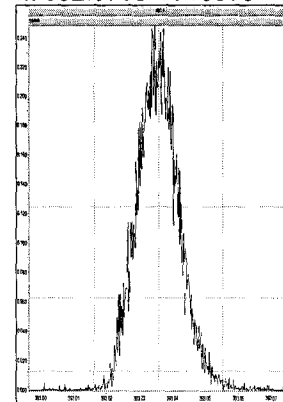
M 366.9792 R 13928



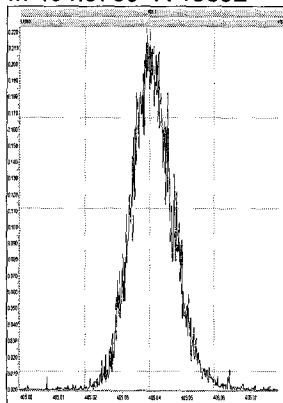
M 380.9760 R 13522



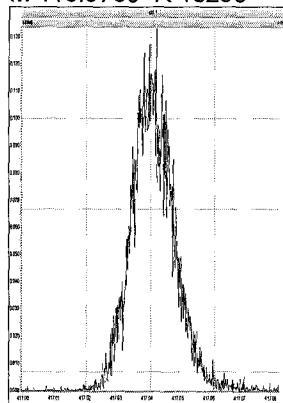
M 392.9760 R 13895



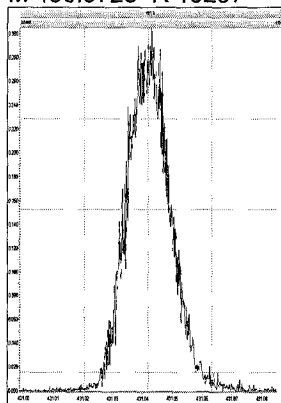
M 404.9760 R 13892



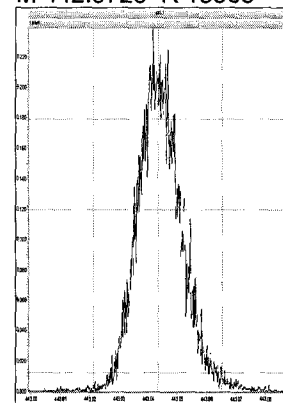
M 416.9760 R 13296



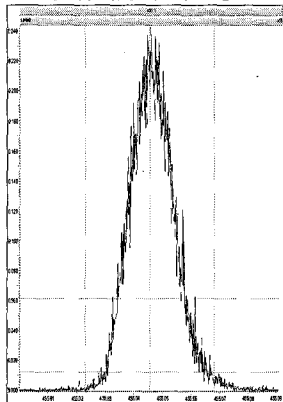
M 430.9728 R 13297



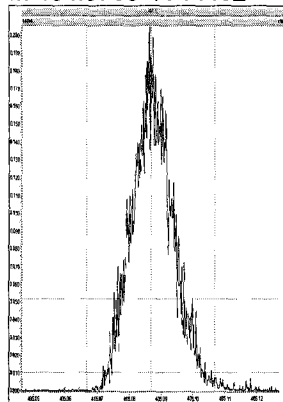
M 442.9728 R 13868



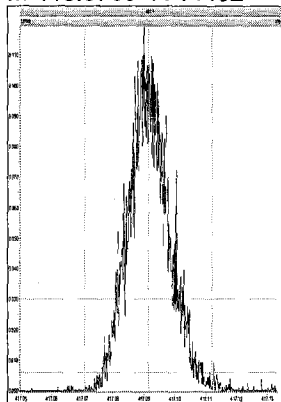
M 454.9728 R 13786



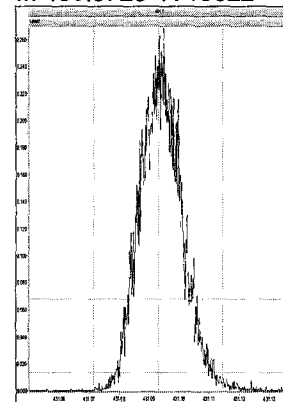
M 404.9760 R 14492



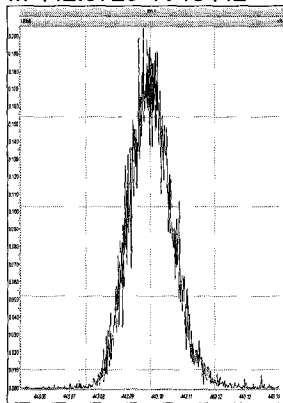
M 416.9760 R 14492



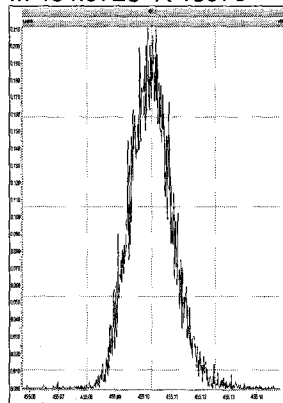
M 430.9728 R 13622



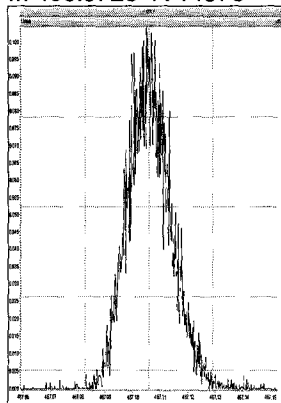
M 442.9728 R 13442



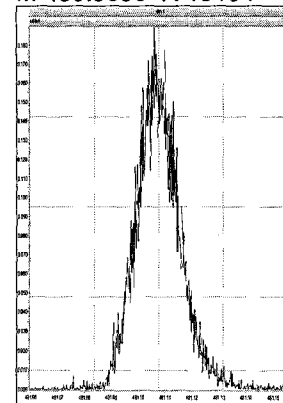
M 454.9728 R 13973



M 466.9728 R 14978

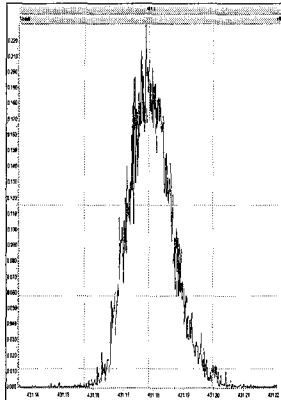


M 480.9696 R 13194

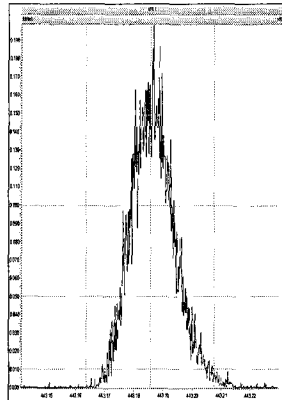


Printed: Wednesday, November 28, 2012 19:33:43 Pacific Standard Time

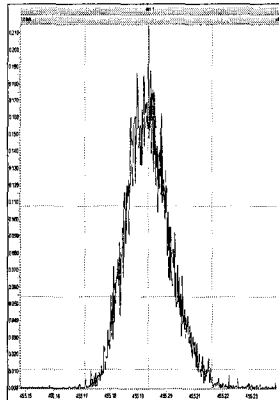
M 430.9728 R 13037



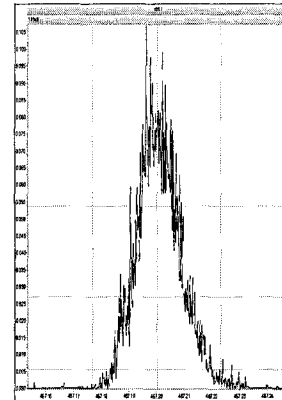
M 442.9728 R 13303



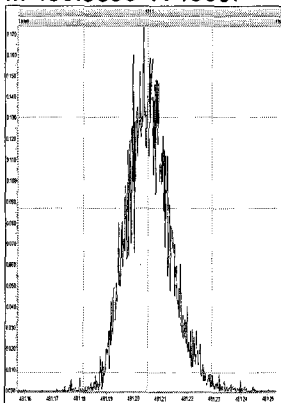
M 454.9728 R 13233



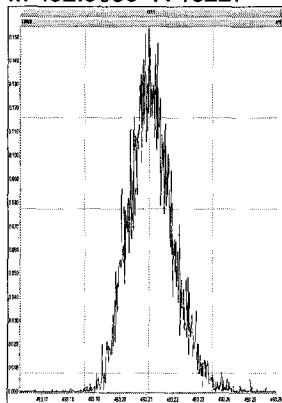
M 466.9728 R 13404



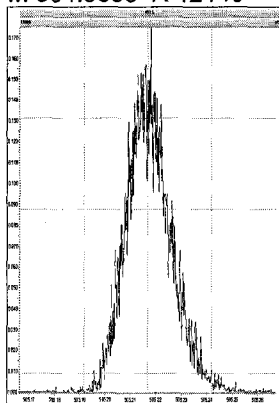
M 480.9696 R 13307



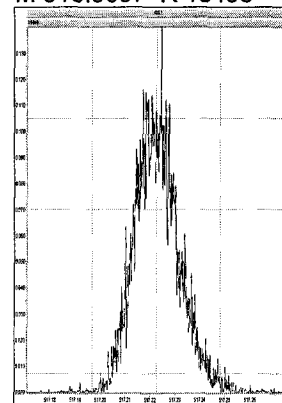
M 492.9696 R 13227



M 504.9696 R 12140



M 516.9697 R 13498



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

	Name	RI	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	EMPC?	EMPC	RR
1	2378-TCDF	26.063	1.001	2.73e5	3.79e5	0.877	0.721	0.770	1419.0	NO	9.838	9.838
2	12378-PeCDF	30.212	1.001	1.62e6	1.09e6	0.896	1.489	1.550	7998.6	NO	50.085	50.085
3	23478-PeCDF	31.560	1.001	1.62e6	1.10e6	0.926	1.473	1.550	7695.8	NO	49.209	49.209
4	123478-HxCDF	35.232	1.001	1.44e6	1.22e6	1.068	1.181	1.240	4495.5	NO	49.940	49.940
5	234678-HxCDF	36.328	1.001	1.44e6	1.23e6	1.037	1.177	1.240	4375.1	NO	50.608	50.608
6	123678-HxCDF	35.386	1.001	1.44e6	1.23e6	1.035	1.169	1.240	4407.8	NO	49.886	49.886
7	123789-HxCDF	37.468	1.001	1.28e6	1.09e6	0.987	1.179	1.240	4014.6	NO	50.080	50.080
8	1234678-HpCDF	39.529	1.000	1.31e6	1.32e6	1.232	0.990	1.050	5228.9	NO	49.145	49.145
9	1234789-HpCDF	42.226	1.000	1.05e6	1.08e6	1.215	0.971	1.050	3562.1	NO	50.089	50.089
10	OCDF	47.531	1.006	1.61e6	1.87e6	1.138	0.862	0.890	4409.3	NO	98.828	98.828
11	2378-TCDD	26.706	1.001	2.13e5	2.76e5	1.049	0.771	0.770	1757.9	NO	9.586	9.586
12	12378-PeCDD	31.812	1.001	1.19e6	7.57e5	0.998	1.566	1.550	5631.0	NO	49.007	49.007
13	123478-HxCDD	36.460	1.000	1.11e6	8.89e5	0.971	1.246	1.240	5747.0	NO	49.856	49.856
14	123678-HxCDD	36.591	1.000	1.08e6	8.80e5	0.918	1.232	1.240	5552.4	NO	50.855	50.855
15	123789-HxCDD	37.019	1.012	1.13e6	9.19e5	0.932	1.230	1.240	5732.1	NO	52.795	52.795
16	1234678-HpCDD	41.349	1.000	9.56e5	9.06e5	1.017	1.055	1.050	3801.6	NO	49.445	49.445
17	OCDD	47.262	1.000	1.47e6	1.63e6	1.008	0.901	0.890	4745.7	NO	98.942	98.942
18	13C-2378-TCDF	26.048	1.006	3.33e6	4.23e6	1.473	0.786	0.770	14273.1	NO	105.146	105.146
19	13C-12378-PeCDF	30.190	1.166	3.69e6	2.35e6	1.148	1.569	1.550	19195.9	NO	107.827	107.827
20	13C-23478-PeCDF	31.538	1.218	3.64e6	2.32e6	1.113	1.571	1.550	19350.0	NO	109.794	109.794
21	13C-123478-HxCDF	35.210	0.952	1.70e6	3.29e6	1.209	0.517	0.510	10248.2	NO	95.233	95.233
22	13C-123678-HxCDF	35.364	0.956	1.77e6	3.42e6	1.269	0.518	0.510	10828.5	NO	94.504	94.504
23	13C-234678-HxCDF	36.306	0.981	1.76e6	3.33e6	1.236	0.527	0.510	10628.0	NO	95.126	95.126
24	13C-123789-HxCDF	37.446	1.012	1.64e6	3.15e6	1.107	0.522	0.510	9990.1	NO	99.932	99.932
25	13C-1234678-HpCDF	39.518	1.068	1.34e6	3.00e6	1.051	0.448	0.440	7199.9	NO	95.477	95.477
26	13C-1234789-HpCDF	42.215	1.141	1.08e6	2.43e6	0.815	0.446	0.440	4946.9	NO	99.460	99.460
27	13C-1234-TCDD	25.884	0.000	2.16e6	2.73e6	1.000	0.791	0.770	10851.7	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.031	2.14e6	2.73e6	0.946	0.785	0.770	10735.6	NO	105.365	105.365
29	13C-12378-PeCDD	31.790	1.228	2.43e6	1.55e6	0.721	1.568	1.550	20557.3	NO	112.870	112.870
30	13C-123478-HxCDD	36.449	0.985	2.30e6	1.83e6	0.991	1.258	1.240	17233.1	NO	96.175	96.175
31	13C-123678-HxCDD	36.581	0.989	2.33e6	1.87e6	1.025	1.244	1.240	17452.5	NO	94.811	94.811
32	13C-1234678-HpCDD	41.327	1.117	1.89e6	1.81e6	0.866	1.042	1.050	6924.8	NO	98.763	98.763
33	13C-OCDD	47.244	1.277	2.93e6	3.27e6	0.769	0.897	0.890	11081.3	NO	186.278	186.278

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PROV121128DATA1.qld
 Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
 Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion Area	Ion2Area	RRF	Ratio	Pred R	SM	EMPC?	EMPC	ppb
34	13C-123789-HxCDD	36.997	0.000	2.40e6	1.93e6	1.000	1.247	1.240	17730.1	NO	100.000
35	Total-tetrafurans			8.52e5		0.877					30.383
36	Total-penta1			2.12e6							63.356
37	Total-pentafurans			4.98e6		0.911					152.722
38	Total-hexafurans			7.21e6		1.032					257.545
39	Total-heptafurans			2.36e6		1.223					99.430
40	Total-Furans			1.91e7		1.041					702.279
41	Total-tetraioxins			1.18e6		1.049					53.326
42	Total-pentadioxins			4.12e6		0.998					170.547
43	Total-hexadioxins			4.70e6		0.940					218.110
44	Total-heptadioxins			2.04e6		1.017					105.991
45	Total-Dioxins			1.35e7		0.985					646.917
46	Total-TEQ			3.26e7		1.044					1349.196
47	37CL-2378-TCDD	26.706	1.032	5.43e5					3835.1		10.664
48	FUNCTION1 PFK			2.41e6							0.000
49	FUNCTION2 PFK			3.34e5							0.000
50	FUNCTION3 PFK			8.60e6							0.000
51	FUNCTION4 PFK			3.72e5							0.000
52	FUNCTION5 PFK			3.23e5							0.000
53	FUNCTION1 HXCdPE			8.45e2							0.000
54	FUNCTION1 HPCdPE			1.84e3							0.000
55	FUNCTION2 HPCdPE			2.82e3							0.000
56	FUNCTION3 OCDPE			1.41e2							0.000
57	FUNCTION4 NCDPE			0.00e0							0.000
58	FUNCTION5 DCDPE			0.00e0							0.000

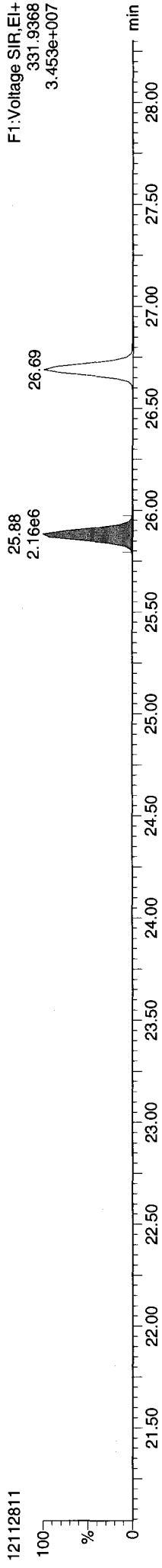
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Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

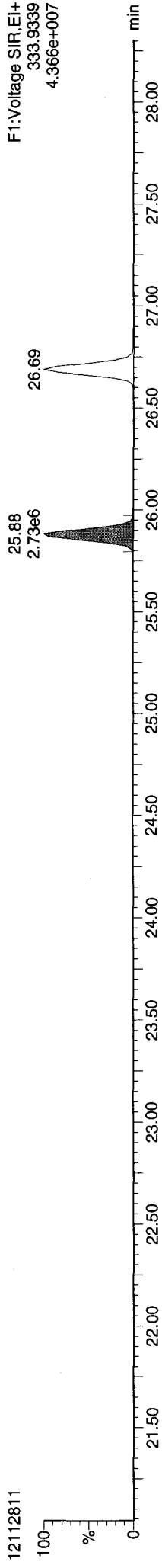
Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 23 Nov 2012 12:31:40
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

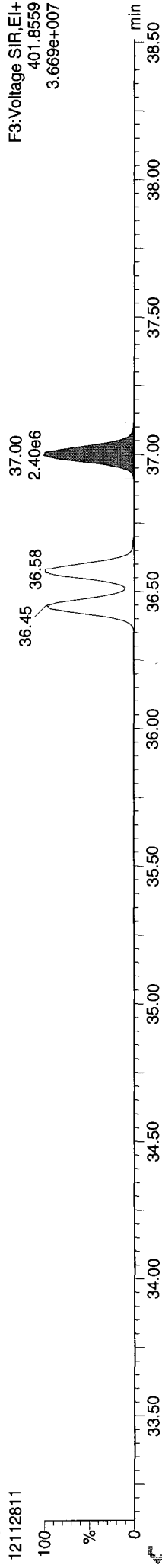
13C-1234-TCDD



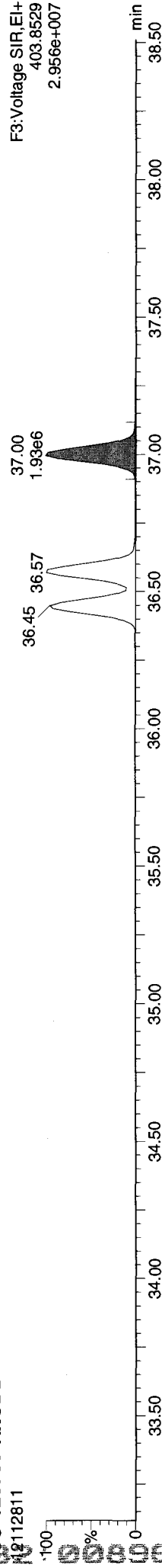
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13C-123789-HxCDD



13C-123789-HxCDD

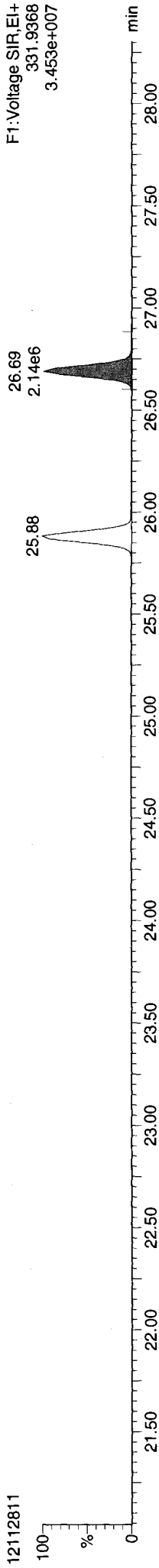


Quantify Sample Report MassLynx 4.1 SCN 714

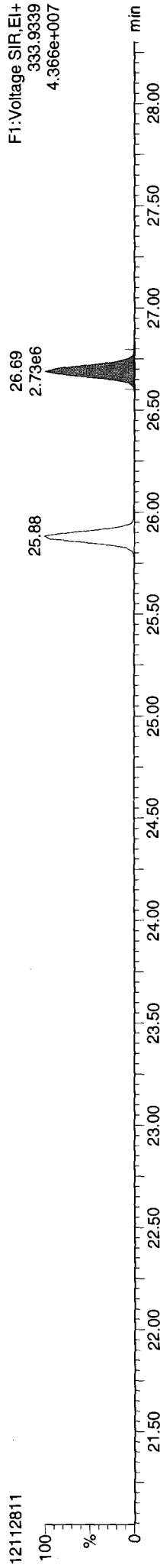
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Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD



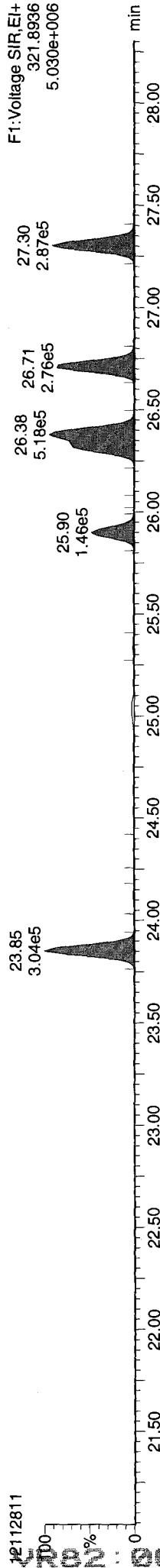
13C-2378-TCDD



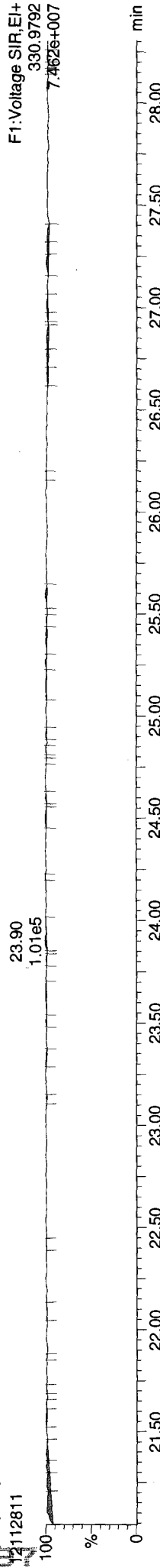
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

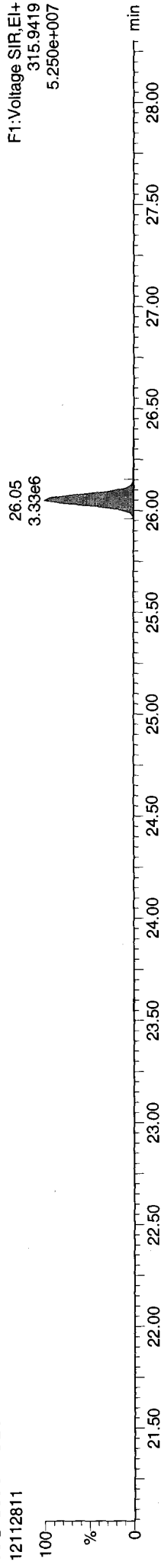


Quantify Sample Report MassLynx 4.1 SCN 714

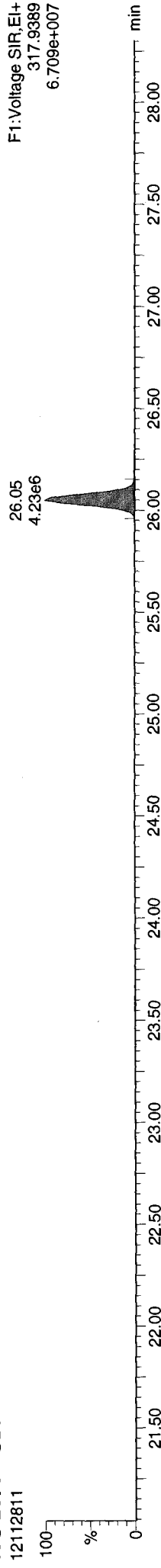
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

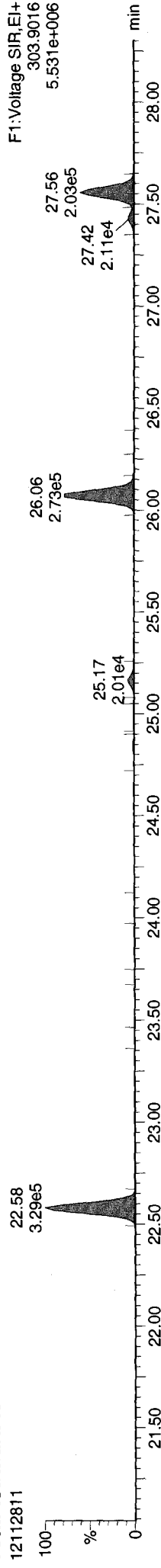
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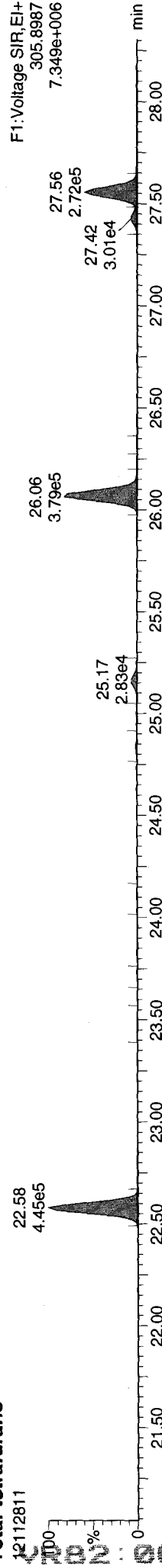
13C-2378-TCDF



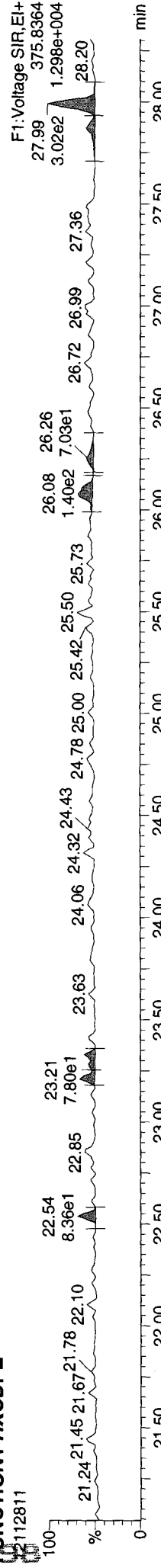
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE

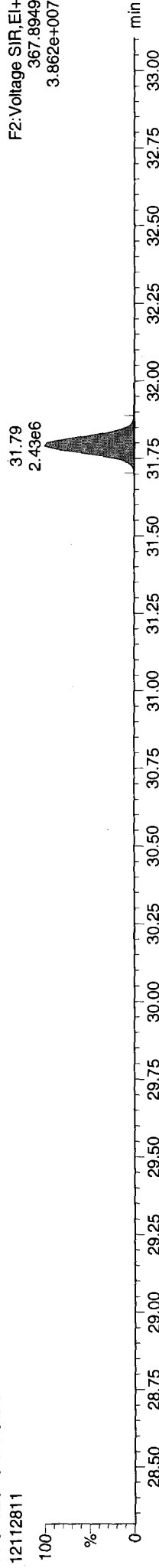


Quantify Sample Report MassLynx 4.1 SCN 714

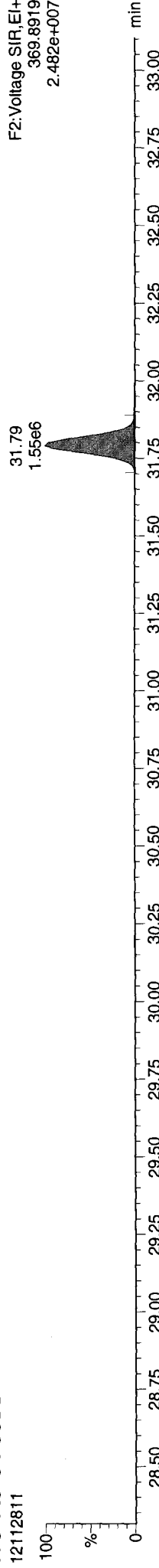
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

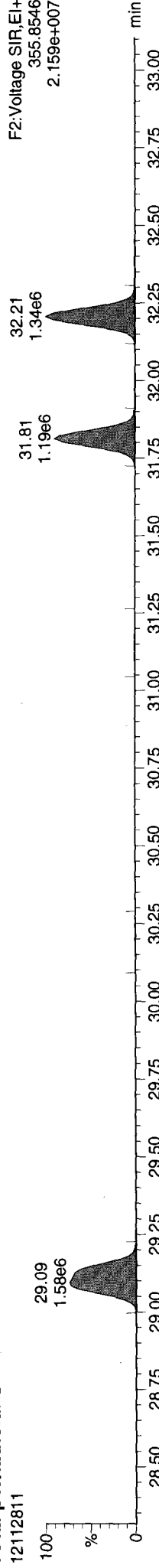
13C-12378-PeCDD



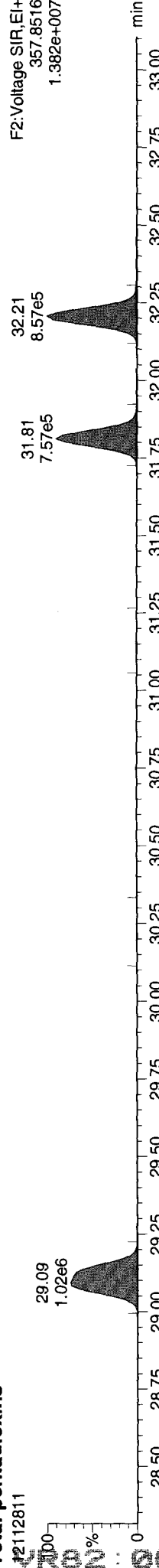
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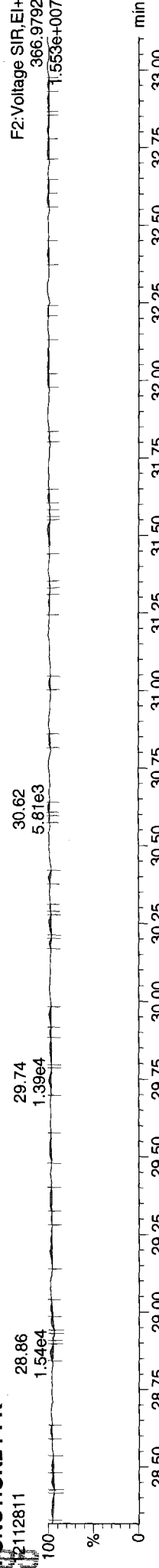
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

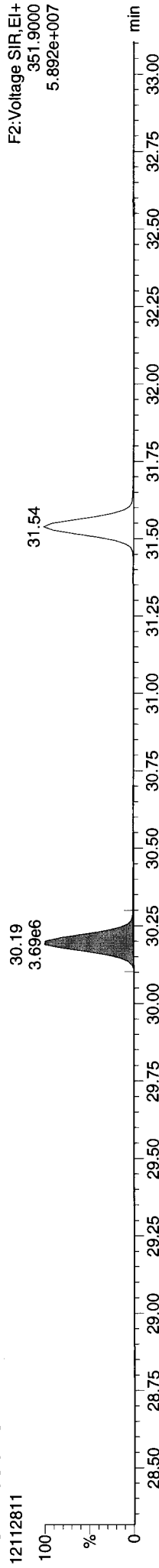


Quantify Sample Report MassLynx 4.1 SCN 714

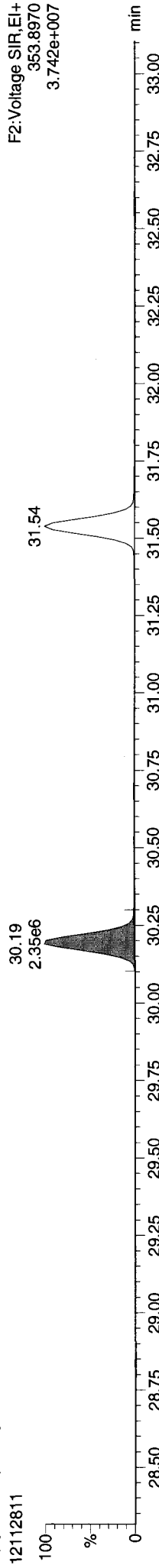
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

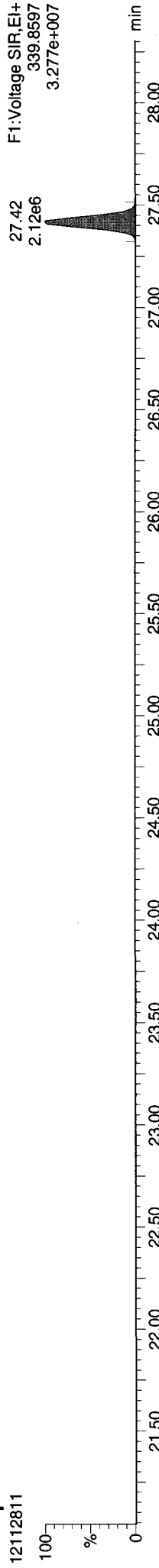
13C-12378-PeCDF



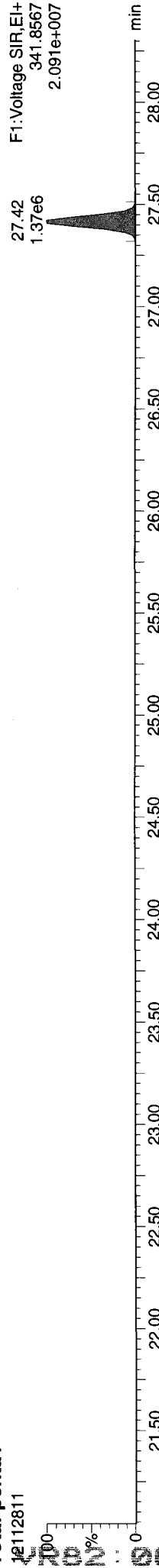
13C-12378-PeCDF



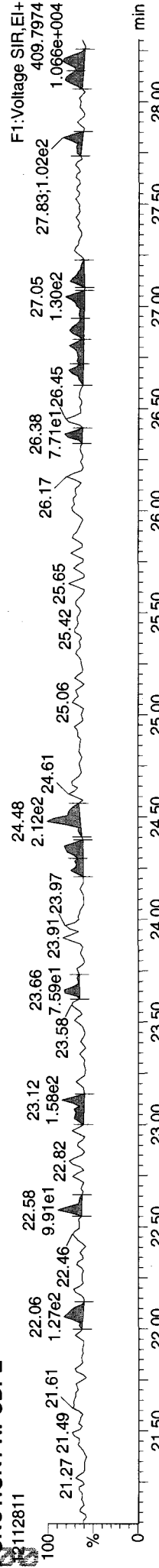
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

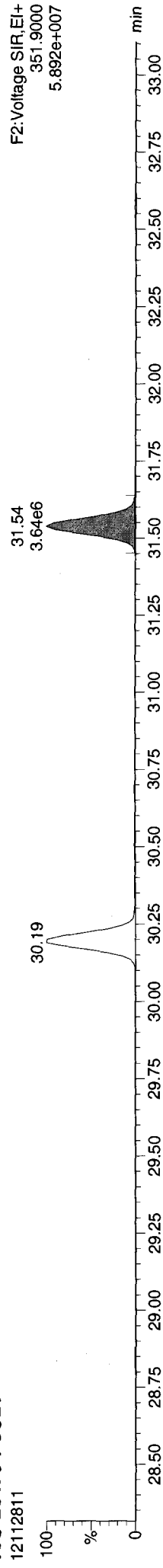


Quantify Sample Report MassLynx 4.1 SCN 714

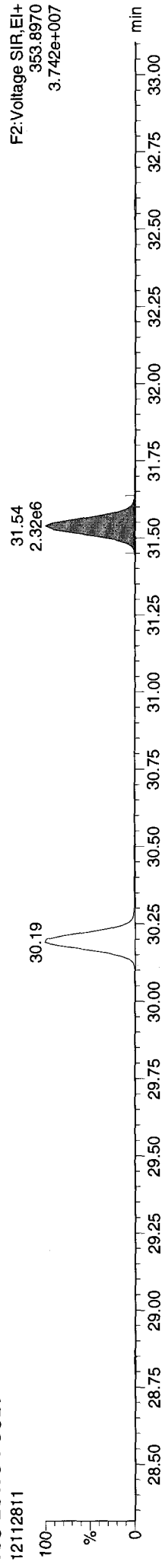
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 16:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

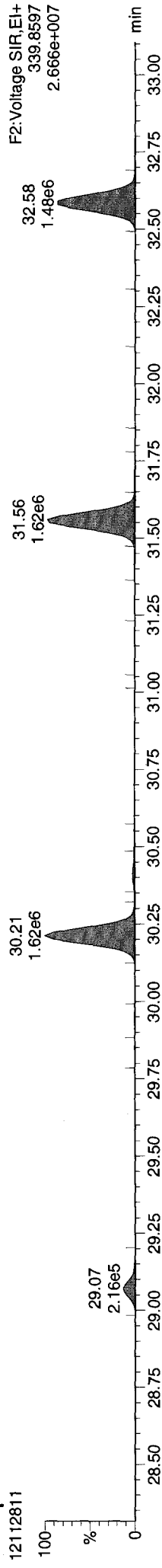
13C-23478-PeCDF



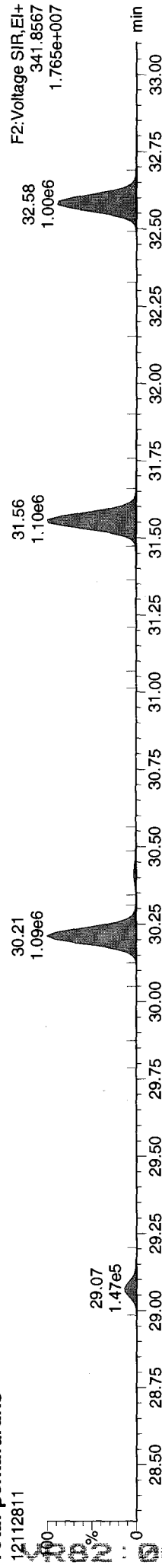
13C-23478-PeCDF



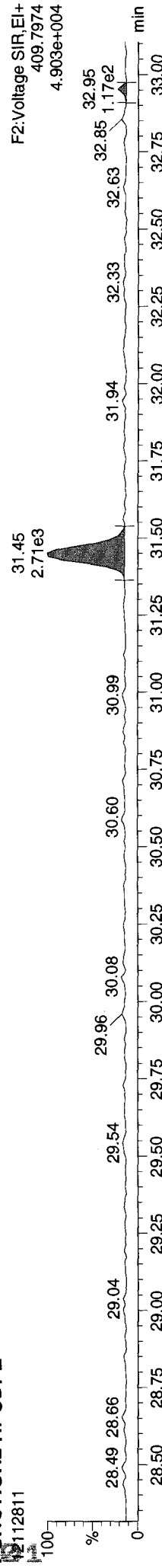
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

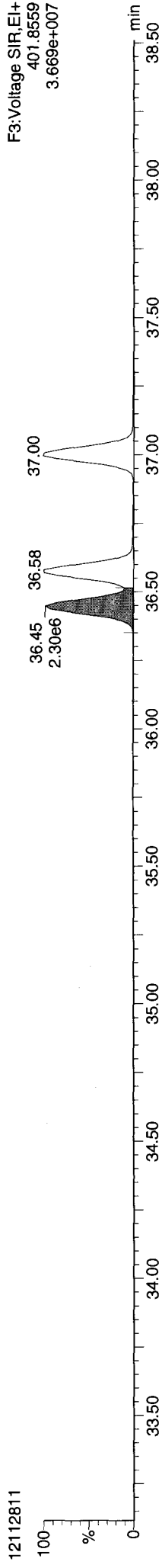


Quantify Sample Report MassLynx 4.1 SCN 714

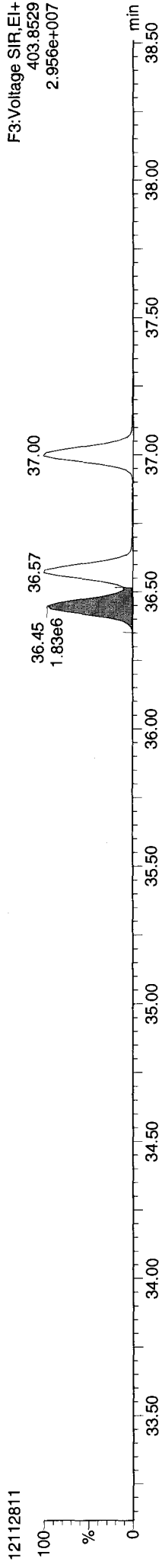
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

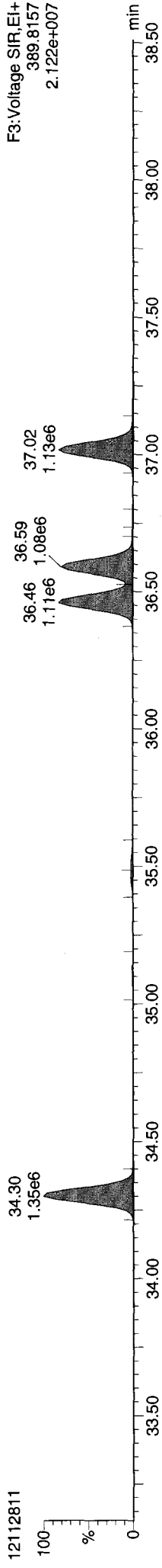
13C-123478-HxCDD



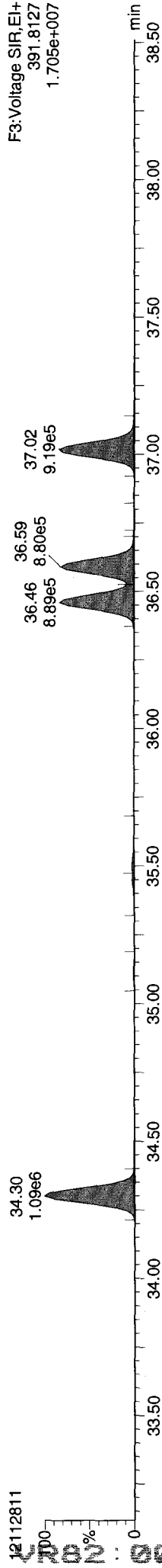
13C-123478-HxCDD



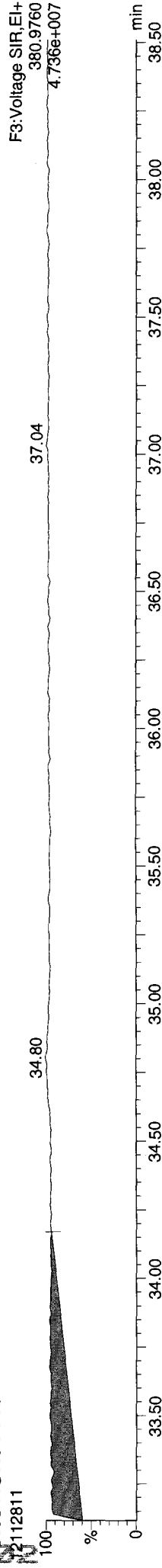
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

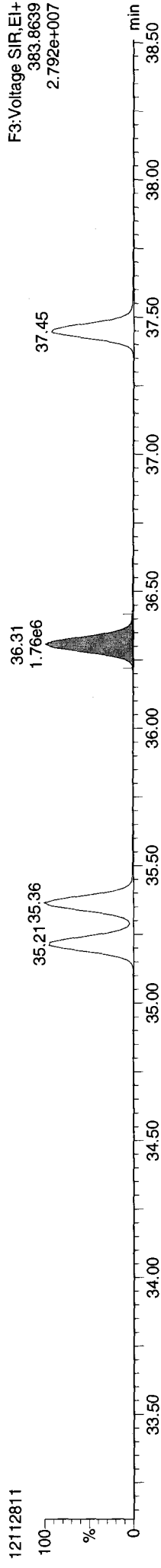
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

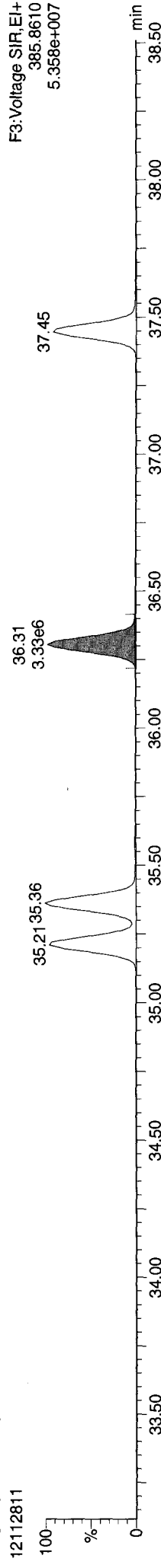
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

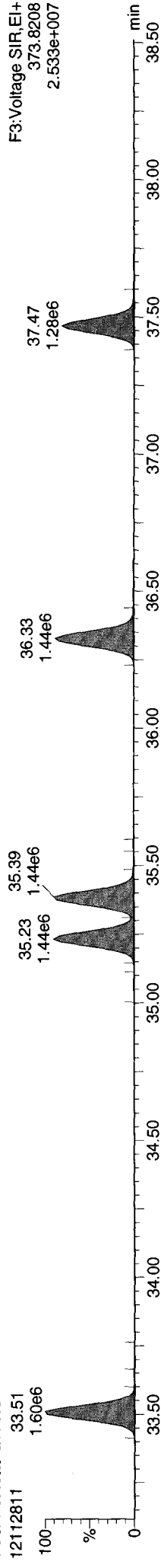
13C-234678-HxCDF



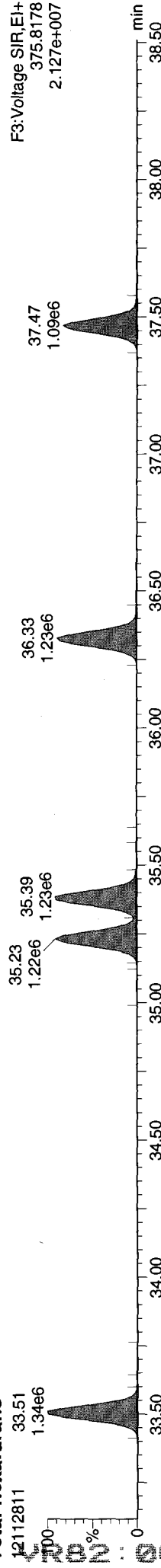
13C-234678-HxCDF



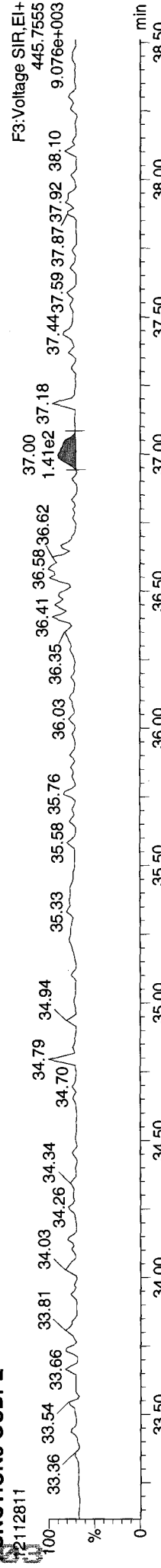
Total-hexafurans



Total-hexafurans



JUNCTION3 OCDFE



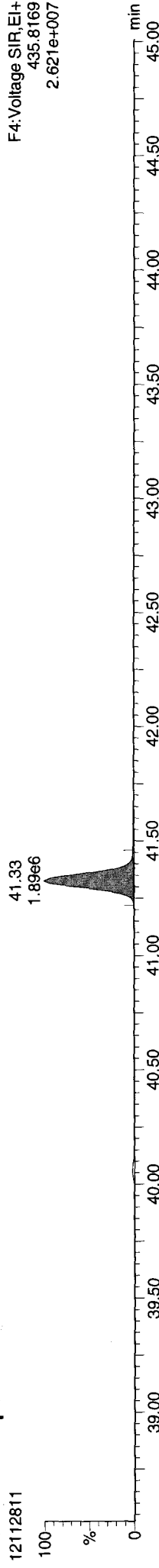
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld

Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time

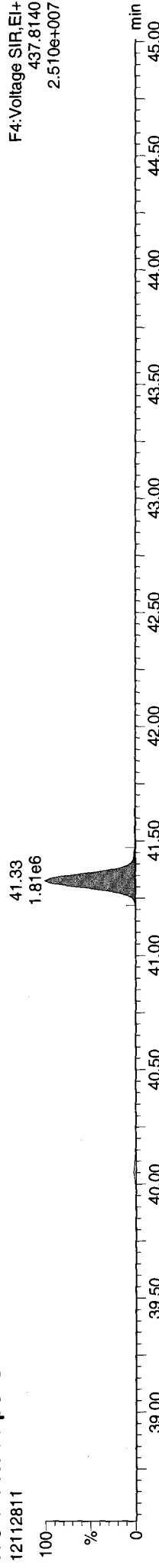
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

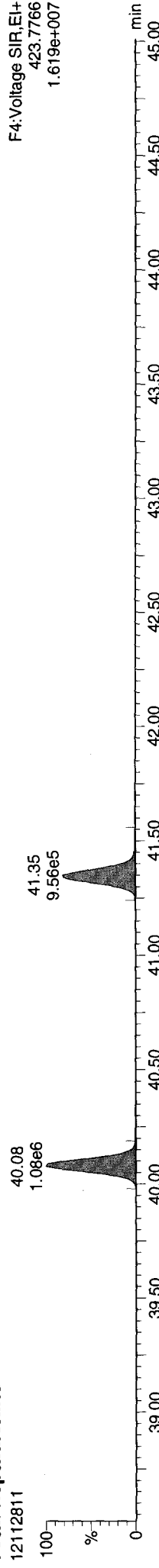
13C-1234678-HpCDD



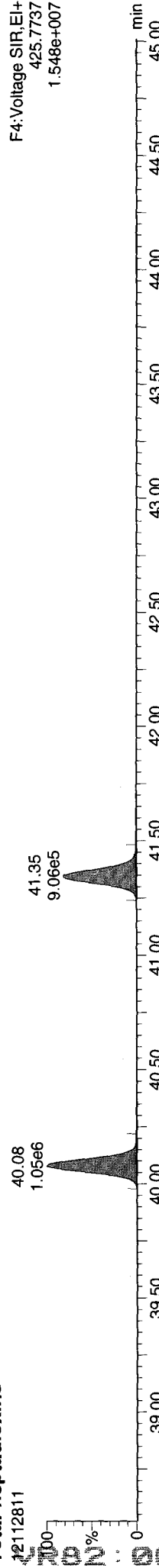
13C-1234678-HpCDD



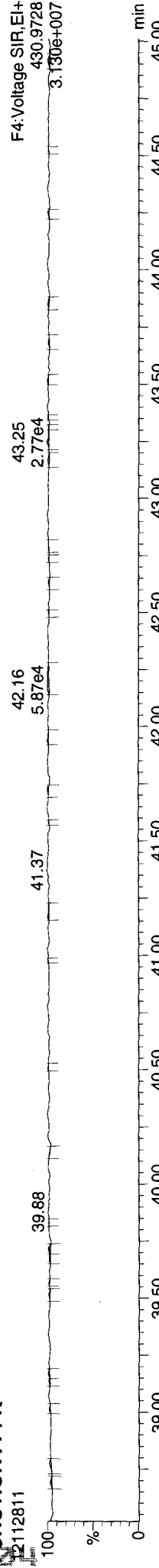
Total-heptadioxins



Total-heptadioxins

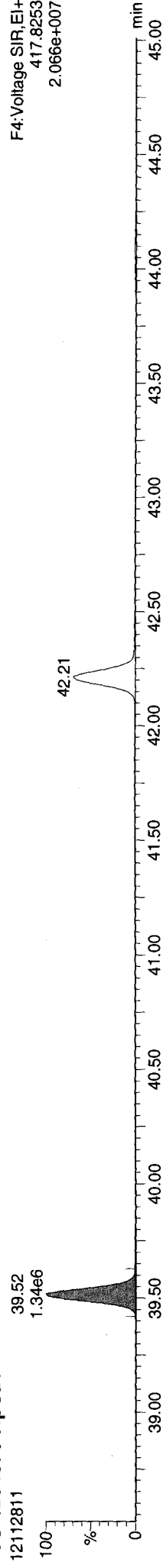


FUNCTION4 PFK

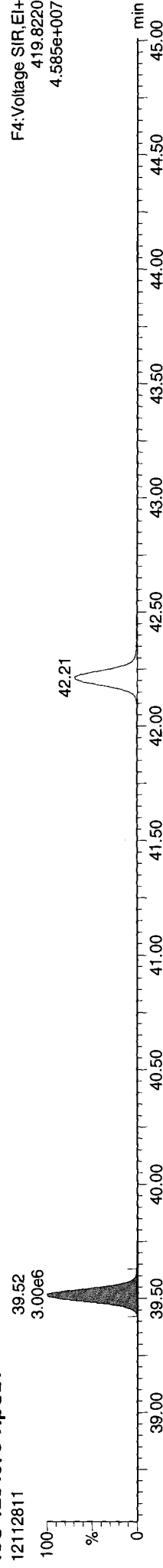


Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

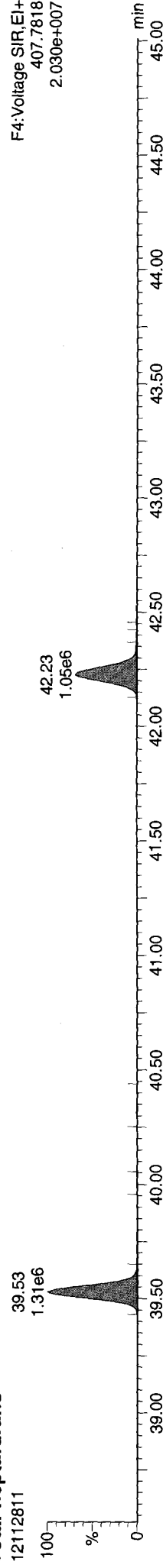
13C-1234678-HpCDF



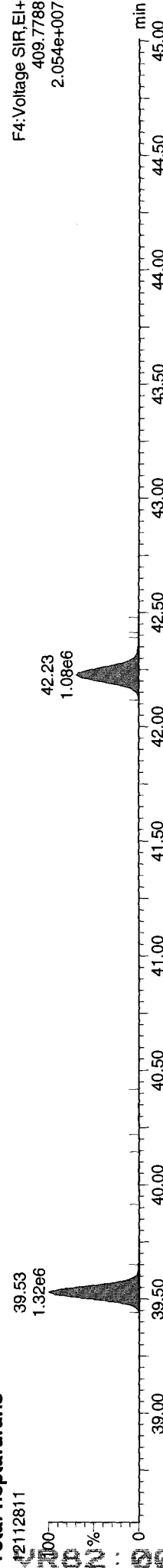
13C-1234678-HpCDF



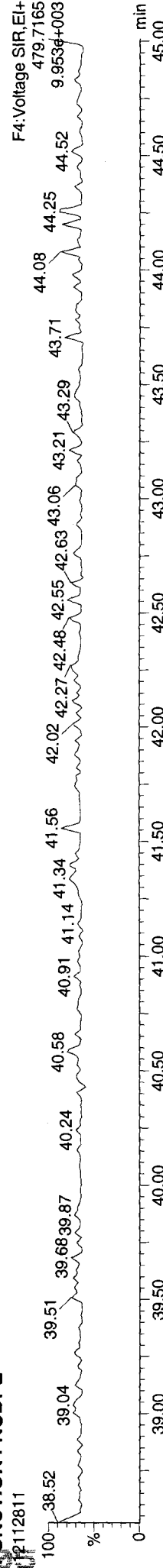
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



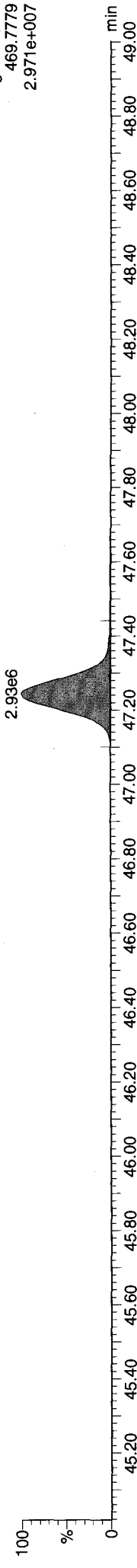
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

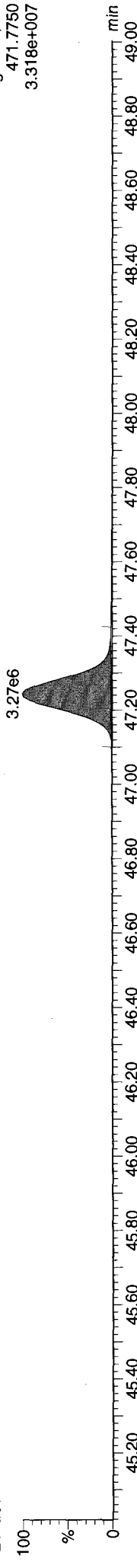
13C-OCDD

12112811



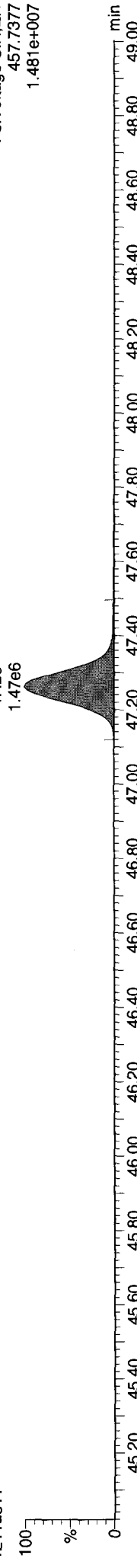
13C-OCDD

12112811



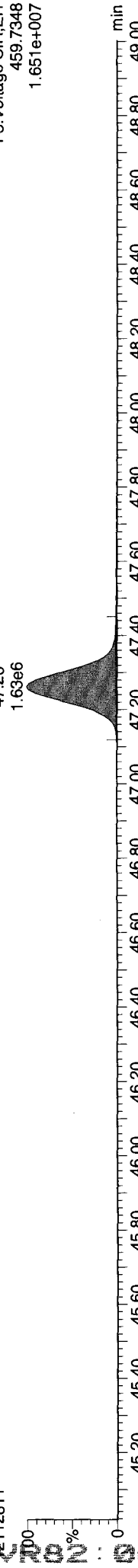
OCDD

12112811



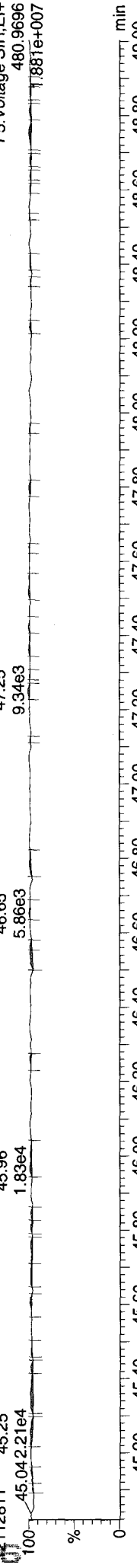
OCDD

12112811



FUNCTION5 PFK

12112811

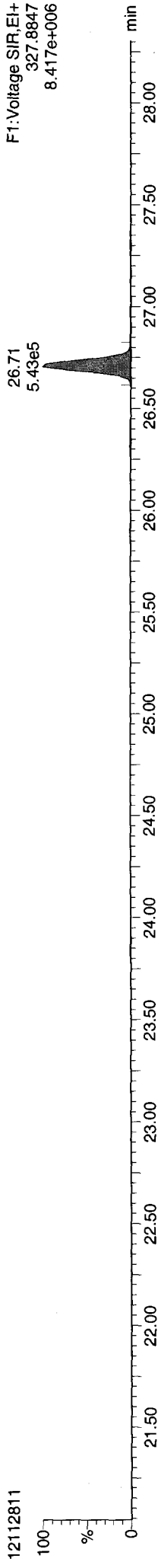


Quantify Sample Report MassLynx 4.1 SCN 714

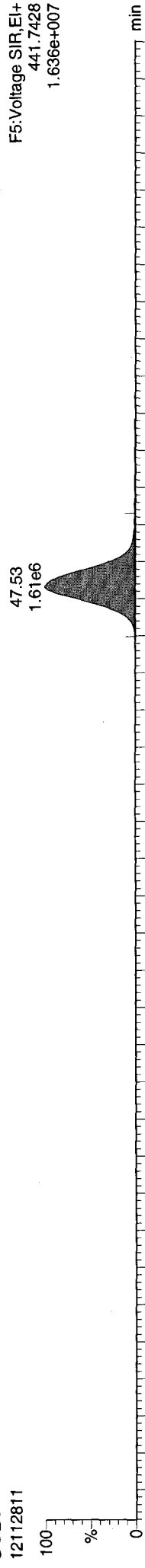
Dataset: P:\DIOXIN8290.PRO\121128DATA1.qld
Last Altered: Monday, December 10, 2012 14:32:13 Pacific Standard Time
Printed: Monday, December 10, 2012 14:35:07 Pacific Standard Time

Name: 12112811, Date: 28-Nov-2012, Time: 18:33:14, ID: CS3, Conditions: AUTOSPEC01, User: pk

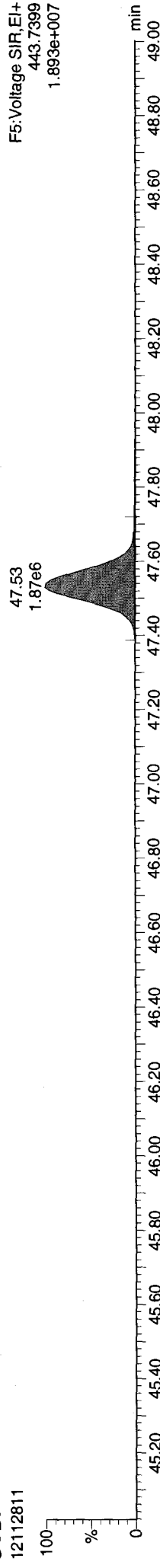
37CL-2378-TCDD



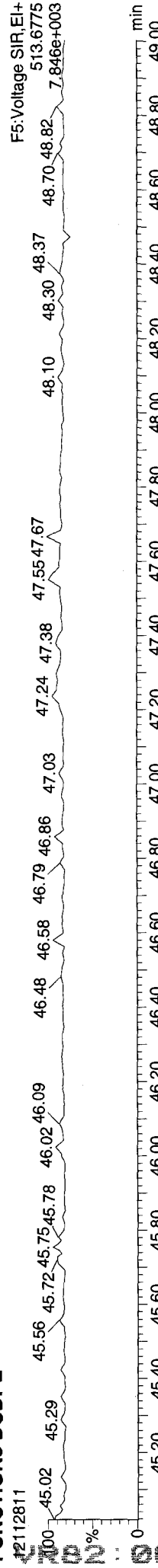
OCDF



OCDF



FUNCTION5 DCDPE



12112811

45.02

45.29

45.56

45.72

45.75

45.78

46.02

46.09

46.48

46.58

46.79

46.86

47.03

47.24

47.38

47.55

47.67

48.10

48.30

48.37

48.70

48.82

7.846e+003

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Nr 12/10/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

	Name	RT	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC	DO
1	2378-TCDF	26.063	1.001	2.71e4	3.36e4	0.877	0.808	0.770	113.1	3727	1527	4.21e5	5.39e5	NO	NO	1.688	1.688
2	12378-PeCDF	30.211	1.001	2.98e4	2.01e4	0.896	1.485	1.550	185.8	2533	3036	4.71e5	3.16e5	NO	NO	1.522	1.522
3	23478-PeCDF	31.549	1.000	3.30e4	2.23e4	0.926	1.481	1.550	190.4	2533	3036	4.82e5	3.41e5	NO	NO	1.636	1.636
4	123478-HxCDF	35.242	1.001	6.50e4	5.60e4	1.068	1.161	1.240	258.5	3948	3385	1.02e6	8.95e5	NO	NO	4.022	4.022
5	234678-HxCDF	36.339	1.000	9.09e4	7.81e4	1.037	1.164	1.240	220.4	3948	3385	8.70e5	7.17e5	NO	NO	5.848	5.848
6	123678-HxCDF	35.396	1.001	6.81e4	5.82e4	1.035	1.170	1.240	260.4	3948	3385	1.03e6	9.18e5	NO	NO	4.145	4.145
7	123789-HxCDF	37.445	1.000	2.46e4	2.14e4	0.987	1.147	1.240	90.4	3948	3385	3.57e5	3.07e5	NO	NO	1.564	1.564
8	1234678-HpCDF	39.539	1.001	9.77e5	9.91e5	1.232	0.986	1.050	3904.8	3681	3130	1.44e7	1.46e7	NO	NO	68.469	68.469
9	1234789-HpCDF	42.235	1.001	4.15e4	4.27e4	1.215	0.970	1.050	148.9	3681	3130	5.48e5	5.58e5	NO	NO	3.673	3.673
10	OCDF	47.566	1.006	1.60e6	1.92e6	1.138	0.833	0.890	7580.3	2081	1866	1.58e7	1.88e7	NO	NO	183.160	183.160
11	2378-TCDD	26.721	1.001	5.62e3	9.58e3	1.049	0.587	0.770	82.6	1023	1207	8.45e4	1.54e5	YES	YES	0.415	0.488
12	12378-PeCDD	31.812	1.001	5.43e4	3.67e4	0.998	1.478	1.550	552.4	1484	1180	8.20e5	5.24e5	NO	NO	3.918	3.918
13	123478-HxCDD	36.492	1.001	9.49e4	7.53e4	0.971	1.261	1.240	231.2	6404	5186	1.48e6	1.18e6	NO	NO	7.279	7.279
14	123678-HxCDD	36.612	1.000	3.39e5	2.75e5	0.918	1.234	1.240	794.0	6404	5186	5.09e6	4.16e6	NO	NO	26.562	26.562
15	123789-HxCDD	37.040	1.012	1.87e5	1.52e5	0.932	1.232	1.240	450.3	6404	5186	2.88e6	2.38e6	NO	NO	14.747	14.747
16	1234678-HpCDD	41.347	1.001	5.76e6	5.54e6	1.017	1.040	1.050	5876.9	13413	10737	7.88e7	7.63e7	NO	NO	509.893	509.893
17	OCDD	47.297	1.001	2.98e7	3.36e7	1.008	0.890	0.890	39433.9	7801	4574	3.08e8	3.44e8	NO	NO	3719.433	3719.433
18	13C-2378-TCDF	26.048	1.007	1.78e6	2.32e6	1.473	0.770	0.770	7025.4	4022	1948	2.83e7	3.68e7	NO	NO	63.088	63.088
19	13C-12378-PeCDF	30.190	1.167	2.23e6	1.42e6	1.148	1.565	1.550	5685.4	6202	3619	3.53e7	2.24e7	NO	NO	72.021	72.021
20	13C-23478-PeCDF	31.538	1.219	2.22e6	1.42e6	1.113	1.560	1.550	5761.4	6202	3619	3.57e7	2.29e7	NO	NO	74.186	74.186
21	13C-123478-HxCDF	35.221	0.951	9.64e5	1.85e6	1.209	0.520	0.510	4388.5	3369	4997	1.48e7	2.87e7	NO	NO	66.478	66.478
22	13C-123678-HxCDF	35.374	0.955	1.01e6	1.94e6	1.269	0.520	0.510	4584.9	3369	4997	1.54e7	2.96e7	NO	NO	66.228	66.228
23	13C-234678-HxCDF	36.327	0.981	9.49e5	1.84e6	1.236	0.516	0.510	4220.8	3369	4997	1.42e7	2.78e7	NO	NO	64.415	64.415
24	13C-123789-HxCDF	37.457	1.012	1.02e6	1.96e6	1.107	0.522	0.510	5017.7	3369	4997	1.69e7	3.24e7	NO	NO	76.822	76.822
25	13C-1234678-HpCDF	39.517	1.067	7.18e5	1.61e6	1.051	0.445	0.440	3199.0	3311	3805	1.06e7	2.38e7	NO	NO	63.339	63.339
26	13C-1234789-HpCDF	42.214	1.140	5.83e5	1.30e6	0.815	0.447	0.440	2263.8	3311	3805	7.50e6	1.69e7	NO	NO	66.107	66.107
27	13C-1234-TCDD	25.869	0.000	1.94e6	2.48e6	1.000	0.784	0.770	8939.2	3376	1973	3.02e7	3.87e7	NO	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.032	1.30e6	1.67e6	0.946	0.776	0.770	6032.2	3376	1973	2.04e7	2.62e7	NO	NO	70.997	70.997
29	13C-12378-PeCDD	31.790	1.229	1.43e6	9.02e5	0.721	1.581	1.550	8834.9	2575	2198	2.28e7	1.44e7	NO	NO	73.143	73.143
30	13C-123478-HxCDD	36.470	0.985	1.35e6	1.06e6	0.991	1.275	1.240	4441.7	4737	1998	2.10e7	1.65e7	NO	NO	69.382	69.382
31	13C-123678-HxCDD	36.602	0.988	1.40e6	1.12e6	1.025	1.249	1.240	4444.9	4737	1998	2.11e7	1.69e7	NO	NO	70.045	70.045
32	13C-1234678-HpCDD	41.326	1.116	1.12e6	1.06e6	0.866	1.054	1.050	5647.1	2684	2955	1.52e7	1.44e7	NO	NO	71.847	71.847
33	13C-OCDD	47.270	1.277	1.60e6	1.78e6	0.769	0.898	0.890	8895.6	1846	1854	1.64e7	1.83e7	NO	NO	125.459	125.459

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC	pg
34	13C-123789-HxCDD	37.029	0.000	1.94e6	1.56e6	1.000	1.240	6194.4	4737	1998	2.93e7	2.37e7	NO			100.000
35	Total-tetrafurans		3.86e5		0.877				3727		5.90e6				27.797	25.549
36	Total-penta1		7.17e5						774		1.13e7				35.409	35.409
37	Total-pentafurans		4.70e5		0.911				2533		7.09e6				24.209	23.902
38	Total-hexaturans		1.94e6		1.032				3948		2.96e7				120.232	120.121
39	Total-heptafurans		2.68e6		1.223				3681		3.90e7				202.445	202.190
40	Total-Furans		7.80e6		1.041				3727		1.09e8				593.256	590.332
41	Total-tetraioxins		9.37e4		1.049				1023		1.48e6				7.449	6.972
42	Total-pentadioxins		3.10e5		0.998				1484		4.31e6				21.947	21.947
43	Total-hexadioxins		2.14e6		0.940				6404		2.90e7				167.182	167.030
44	Total-heptadioxins		1.28e7		1.017				13413		1.82e8				1132.883	1132.883
45	Total-Dioxins		1.63e8		0.985				1023		2.27e9				593.256	590.332
46	Total-TEQ		1.71e8						1023		2.38e9				1186.512	1180.664
47	37CL-2378-TCDD	26.706	1.032	1.73e6		1.044		11854.1	2323		2.75e7					37.576
48	FUNCTION1 PFK		1.28e7						614989		1.19e8					
49	FUNCTION2 PFK		2.44e5						208898		5.38e6					0.000
50	FUNCTION3 PFK		8.42e6						592244		2.67e7					0.000
51	FUNCTION4 PFK		3.91e5						334922		1.04e7					
52	FUNCTION5 PFK		0.00e0						270567		0.00e0					
53	FUNCTION1 HXCDPE		3.68e3						767		6.43e4					0.000
54	FUNCTION1 HPCDPE		1.41e3						932		3.23e4					0.000
55	FUNCTION2 HPCDPE		1.83e3						1201		3.81e4					0.000
56	FUNCTION3 OCDPE		2.35e2						566		7.60e3					0.000
57	FUNCTION4 NCDPE		5.24e4						950		8.41e5					0.000
58	FUNCTION5 DCDPE		3.99e2						179		3.88e3					0.000

5168
5311

12112818 : 000000

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	35 Total-tetrafurans	303.9016	24.32	0.000	0.877	0.000	1.125	0.65	0.77	YES	74.7
2	35 Total-tetrafurans	303.9016	24.17	45527.711	0.877	1.265	1.265	0.72	0.77	NO	83.5
3	35 Total-tetrafurans	303.9016	24.06	68540.615	0.877	1.905	1.905	0.70	0.77	NO	120.1
4	35 Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.336	0.65	0.77	YES	24.2
5	35 Total-tetrafurans	303.9016	23.82	67577.943	0.877	1.878	1.878	0.72	0.77	NO	122.0
6	35 Total-tetrafurans	303.9016	23.72	28454.592	0.877	0.791	0.791	0.67	0.77	NO	46.2
7	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.705	0.56	0.77	YES	40.9
8	35 Total-tetrafurans	303.9016	23.54	24873.691	0.877	0.691	0.691	0.81	0.77	NO	42.0
9	35 Total-tetrafurans	303.9016	23.42	172286.312	0.877	4.789	4.789	0.73	0.77	NO	295.9
10	35 Total-tetrafurans	303.9016	22.84	38828.473	0.877	1.079	1.079	0.71	0.77	NO	75.2
11	35 Total-tetrafurans	303.9016	22.57	20757.097	0.877	0.577	0.577	0.65	0.77	NO	33.9
12	35 Total-tetrafurans	303.9016	27.50	28805.557	0.877	0.801	0.801	0.75	0.77	NO	41.5
13	35 Total-tetrafurans	303.9016	26.59	0.000	0.877	0.000	0.029	1.77	0.77	YES	3.6
14	35 Total-tetrafurans	303.9016	26.30	68629.258	0.877	1.908	1.908	0.74	0.77	NO	109.0
15	35 Total-tetrafurans	303.9016	26.20	26478.571	0.877	0.736	0.736	0.75	0.77	NO	46.7
16	1 2378-TCDF	303.9016	26.06	60725.498	0.877	1.688	1.688	0.81	0.77	NO	113.1
17	35 Total-tetrafurans	303.9016	25.88	14998.283	0.877	0.417	0.417	0.80	0.77	NO	27.9
18	35 Total-tetrafurans	303.9016	25.82	13718.964	0.877	0.381	0.381	0.81	0.77	NO	28.0
19	35 Total-tetrafurans	303.9016	25.69	0.000	0.877	0.000	0.054	0.61	0.77	YES	3.8
20	35 Total-tetrafurans	303.9016	25.56	12656.696	0.877	0.352	0.352	0.73	0.77	NO	21.4
21	35 Total-tetrafurans	303.9016	25.38	22534.670	0.877	0.626	0.626	0.69	0.77	NO	40.4
22	35 Total-tetrafurans	303.9016	25.15	45219.619	0.877	1.257	1.257	0.69	0.77	NO	72.8
23	35 Total-tetrafurans	303.9016	24.97	78977.809	0.877	2.195	2.195	0.71	0.77	NO	136.7
24	35 Total-tetrafurans	303.9016	24.82	26817.288	0.877	0.745	0.745	0.66	0.77	NO	42.0
25	35 Total-tetrafurans	303.9016	24.73	52810.984	0.877	1.468	1.468	0.69	0.77	NO	84.7

PP

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	36 Total-penta1	339.8597	27.48	1185030.219		35.409	35.409	1.53	1.55	NO	14549.2

VR82: 00910

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
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Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

PF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
37	Total-pentafurans	339.8597	31.30	26251.297	0.911	0.789	0.789	1.33	1.55	NO	85.0
37	Total-pentafurans	339.8597	31.06	0.000	0.911	0.000	0.037	3.10	1.55	YES	9.7
37	Total-pentafurans	339.8597	30.70	0.000	0.911	0.000	0.053	1.29	1.55	YES	5.9
37	Total-pentafurans	339.8597	30.52	13378.222	0.911	0.402	0.402	1.45	1.55	NO	51.1
37	Total-pentafurans	339.8597	30.41	46452.017	0.911	1.397	1.397	1.42	1.55	NO	170.1
2	12378-PeCDF	339.8597	30.21	49829.940	0.896	1.522	1.522	1.48	1.55	NO	185.8
37	Total-pentafurans	339.8597	29.85	123054.351	0.911	3.701	3.701	1.38	1.55	NO	361.8
37	Total-pentafurans	339.8597	29.75	19483.879	0.911	0.586	0.586	1.39	1.55	NO	75.8
37	Total-pentafurans	339.8597	29.63	12403.256	0.911	0.373	0.373	1.50	1.55	NO	32.9
37	Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.157	1.24	1.55	YES	20.3
37	Total-pentafurans	339.8597	29.27	0.000	0.911	0.000	0.060	1.06	1.55	YES	12.1
37	Total-pentafurans	339.8597	29.14	203081.008	0.911	6.107	6.107	1.43	1.55	NO	737.1
37	Total-pentafurans	339.8597	29.07	117215.606	0.911	3.525	3.525	1.46	1.55	NO	510.1
37	Total-pentafurans	339.8597	28.94	64140.934	0.911	1.929	1.929	1.49	1.55	NO	165.0
37	Total-pentafurans	339.8597	32.58	6531.938	0.911	0.196	0.196	1.76	1.55	NO	25.7
3	23478-PeCDF	339.8597	31.55	55243.924	0.926	1.636	1.636	1.48	1.55	NO	190.4
37	Total-pentafurans	339.8597	31.41	57816.467	0.911	1.739	1.739	1.54	1.55	NO	206.3

HF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
7	123789-HxCDF	373.8208	37.45	45966.572	0.987	1.564	1.564	1.15	1.24	NO	90.4
5	234678-HxCDF	373.8208	36.34	169077.516	1.037	5.848	5.848	1.16	1.24	NO	220.4
38	Total-hexafurans	373.8208	35.97	3790.755	1.032	0.128	0.128	1.22	1.24	NO	8.0
38	Total-hexafurans	373.8208	35.76	8816.164	1.032	0.297	0.297	1.10	1.24	NO	18.8
38	Total-hexafurans	373.8208	35.62	1463.588	1.032	0.049	0.049	1.15	1.24	NO	3.6
6	123678-HxCDF	373.8208	35.40	126230.641	1.035	4.145	4.145	1.17	1.24	NO	260.4
4	123478-HxCDF	373.8208	35.24	120968.914	1.068	4.022	4.022	1.16	1.24	NO	258.5
38	Total-hexafurans	373.8208	35.08	27242.596	1.032	0.917	0.917	1.20	1.24	NO	59.5
38	Total-hexafurans	373.8208	34.58	1192961.875	1.032	40.134	40.134	1.21	1.24	NO	2582.7
38	Total-hexafurans	373.8208	34.27	22438.029	1.032	0.755	0.755	1.10	1.24	NO	44.9
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.110	1.59	1.24	YES	9.7
38	Total-hexafurans	373.8208	33.73	1319761.063	1.032	44.400	44.400	1.19	1.24	NO	2762.1
38	Total-hexafurans	373.8208	33.51	530973.704	1.032	17.863	17.863	1.19	1.24	NO	1186.7

HPF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
9	1234789-HpCDF	407.7818	42.24	84205.125	1.215	3.673	3.673	0.97	1.05	NO	148.9
39	Total-heptafurans	407.7818	41.36	0.000	1.223	0.000	0.255	1.26	1.05	YES	15.1
39	Total-heptafurans	407.7818	40.33	3309707.375	1.223	128.233	128....	0.99	1.05	NO	6453.4
39	Total-heptafurans	407.7818	40.03	46836.592	1.223	1.815	1.815	0.94	1.05	NO	76.3
8	1234678-HpCDF	407.7818	39.54	1967305.250	1.232	68.469	68.469	0.99	1.05	NO	3904.8

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
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Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
35	Total-tetrafurans	303.9016	24.32	0.000	0.877	0.000	1.125	0.65	0.77	YES	74.7
35	Total-tetrafurans	303.9016	24.17	45527.711	0.877	1.265	1.265	0.72	0.77	NO	83.5
35	Total-tetrafurans	303.9016	24.06	68540.615	0.877	1.905	1.905	0.70	0.77	NO	120.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.336	0.65	0.77	YES	24.2
35	Total-tetrafurans	303.9016	23.82	67577.943	0.877	1.878	1.878	0.72	0.77	NO	122.0
35	Total-tetrafurans	303.9016	23.72	28454.592	0.877	0.791	0.791	0.67	0.77	NO	46.2
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.705	0.56	0.77	YES	40.9
35	Total-tetrafurans	303.9016	23.54	24873.691	0.877	0.691	0.691	0.81	0.77	NO	42.0
35	Total-tetrafurans	303.9016	23.42	172286.312	0.877	4.789	4.789	0.73	0.77	NO	295.9
35	Total-tetrafurans	303.9016	22.84	38828.473	0.877	1.079	1.079	0.71	0.77	NO	75.2
35	Total-tetrafurans	303.9016	22.57	20757.097	0.877	0.577	0.577	0.65	0.77	NO	33.9
40	Total-Furans	303.9016	21.30	0.000	1.041	0.000	0.004	0.45	0.77	YES	0.6
35	Total-tetrafurans	303.9016	27.50	28805.557	0.877	0.801	0.801	0.75	0.77	NO	41.5
35	Total-tetrafurans	303.9016	26.59	0.000	0.877	0.000	0.029	1.77	0.77	YES	3.6
35	Total-tetrafurans	303.9016	26.30	68629.258	0.877	1.908	1.908	0.74	0.77	NO	109.0
35	Total-tetrafurans	303.9016	26.20	26478.571	0.877	0.736	0.736	0.75	0.77	NO	46.7
1	2378-TCDF	303.9016	26.06	60725.498	0.877	1.688	1.688	0.81	0.77	NO	113.1
35	Total-tetrafurans	303.9016	25.88	14998.283	0.877	0.417	0.417	0.80	0.77	NO	27.9
35	Total-tetrafurans	303.9016	25.82	13718.964	0.877	0.381	0.381	0.81	0.77	NO	28.0
35	Total-tetrafurans	303.9016	25.69	0.000	0.877	0.000	0.054	0.61	0.77	YES	3.8
35	Total-tetrafurans	303.9016	25.56	12656.696	0.877	0.352	0.352	0.73	0.77	NO	21.4
35	Total-tetrafurans	303.9016	25.38	22534.670	0.877	0.626	0.626	0.69	0.77	NO	40.4
35	Total-tetrafurans	303.9016	25.15	45219.619	0.877	1.257	1.257	0.69	0.77	NO	72.8
35	Total-tetrafurans	303.9016	24.97	78977.809	0.877	2.195	2.195	0.71	0.77	NO	136.7
35	Total-tetrafurans	303.9016	24.82	26817.288	0.877	0.745	0.745	0.66	0.77	NO	42.0
35	Total-tetrafurans	303.9016	24.73	52810.984	0.877	1.468	1.468	0.69	0.77	NO	84.7
37	Total-pentafurans	339.8597	31.30	26251.297	0.911	0.789	0.789	1.33	1.55	NO	85.0
37	Total-pentafurans	339.8597	31.06	0.000	0.911	0.000	0.037	3.10	1.55	YES	9.7
37	Total-pentafurans	339.8597	30.70	0.000	0.911	0.000	0.053	1.29	1.55	YES	5.9
37	Total-pentafurans	339.8597	30.52	13378.222	0.911	0.402	0.402	1.45	1.55	NO	51.1
37	Total-pentafurans	339.8597	30.41	46452.017	0.911	1.397	1.397	1.42	1.55	NO	170.1
2	12378-PeCDF	339.8597	30.21	49829.940	0.896	1.522	1.522	1.48	1.55	NO	185.8
37	Total-pentafurans	339.8597	29.85	123054.351	0.911	3.701	3.701	1.38	1.55	NO	361.8
37	Total-pentafurans	339.8597	29.75	19483.879	0.911	0.586	0.586	1.39	1.55	NO	75.8
37	Total-pentafurans	339.8597	29.63	12403.256	0.911	0.373	0.373	1.50	1.55	NO	32.9
37	Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.157	1.24	1.55	YES	20.3
37	Total-pentafurans	339.8597	29.27	0.000	0.911	0.000	0.060	1.06	1.55	YES	12.1
37	Total-pentafurans	339.8597	29.14	203081.008	0.911	6.107	6.107	1.43	1.55	NO	737.1
37	Total-pentafurans	339.8597	29.07	117215.606	0.911	3.525	3.525	1.46	1.55	NO	510.1
37	Total-pentafurans	339.8597	28.94	64140.934	0.911	1.929	1.929	1.49	1.55	NO	165.0
37	Total-pentafurans	339.8597	32.58	6531.938	0.911	0.196	0.196	1.76	1.55	NO	25.7
3	23478-PeCDF	339.8597	31.55	55243.924	0.926	1.636	1.636	1.48	1.55	NO	190.4
37	Total-pentafurans	339.8597	31.41	57816.467	0.911	1.739	1.739	1.54	1.55	NO	206.3
7	123789-HxCDF	373.8208	37.45	45966.572	0.987	1.564	1.564	1.15	1.24	NO	90.4
5	234678-HxCDF	373.8208	36.34	169077.516	1.037	5.848	5.848	1.16	1.24	NO	220.4
38	Total-hexafurans	373.8208	35.97	3790.755	1.032	0.128	0.128	1.22	1.24	NO	8.0
38	Total-hexafurans	373.8208	35.76	8816.164	1.032	0.297	0.297	1.10	1.24	NO	18.8
38	Total-hexafurans	373.8208	35.62	1463.588	1.032	0.049	0.049	1.15	1.24	NO	3.6
6	123678-HxCDF	373.8208	35.40	126230.641	1.035	4.145	4.145	1.17	1.24	NO	260.4

VR82: 00912

Quantify Totals Report MassLynx 4.1 SCN 714

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
4	123478-HxCDF	373.8208	35.24	120968.914	1.068	4.022	4.022	1.16	1.24	NO	258.5
38	Total-hexafurans	373.8208	35.08	27242.596	1.032	0.917	0.917	1.20	1.24	NO	59.5
38	Total-hexafurans	373.8208	34.58	1192961.875	1.032	40.134	40.134	1.21	1.24	NO	2582.7
38	Total-hexafurans	373.8208	34.27	22438.029	1.032	0.755	0.755	1.10	1.24	NO	44.9
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.110	1.59	1.24	YES	9.7
38	Total-hexafurans	373.8208	33.73	1319761.063	1.032	44.400	44.400	1.19	1.24	NO	2762.1
38	Total-hexafurans	373.8208	33.51	530973.704	1.032	17.863	17.863	1.19	1.24	NO	1186.7
9	1234789-HpCDF	407.7818	42.24	84205.125	1.215	3.673	3.673	0.97	1.05	NO	148.9
39	Total-heptafurans	407.7818	41.36	0.000	1.223	0.000	0.255	1.26	1.05	YES	15.1
39	Total-heptafurans	407.7818	40.33	3309707.375	1.223	128.233	128....	0.99	1.05	NO	6453.4
39	Total-heptafurans	407.7818	40.03	46836.592	1.223	1.815	1.815	0.94	1.05	NO	76.3
8	1234678-HpCDF	407.7818	39.54	1967305.250	1.232	68.469	68.469	0.99	1.05	NO	3904.8
10	OCDF	441.7428	47.57	3521767.125	1.138	183.160	183....	0.83	0.89	NO	7580.3
36	Total-penta1	339.8597	27.48	1185030.219		35.409	35.409	1.53	1.55	NO	14549.2

TD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
41	Total-tetraoxins	319.8965	24.33	19868.424	1.049	0.638	0.638	0.76	0.77	NO	140.7
41	Total-tetraoxins	319.8965	24.12	38321.858	1.049	1.231	1.231	0.72	0.77	NO	256.7
41	Total-tetraoxins	319.8965	23.85	51561.467	1.049	1.657	1.657	0.75	0.77	NO	349.9
41	Total-tetraoxins	319.8965	27.30	2954.759	1.049	0.095	0.095	0.84	0.77	NO	20.9
41	Total-tetraoxins	319.8965	26.84	10826.392	1.049	0.348	0.348	0.76	0.77	NO	65.3
11	2378-TCDD	319.8965	26.72	15200.337	1.049	0.000	0.415	0.59	0.77	YES	82.6
41	Total-tetraoxins	319.8965	26.35	12038.304	1.049	0.387	0.387	0.67	0.77	NO	50.5
41	Total-tetraoxins	319.8965	26.03	0.000	1.049	0.000	0.061	1.14	0.77	YES	20.1
41	Total-tetraoxins	319.8965	25.90	11216.762	1.049	0.360	0.360	0.74	0.77	NO	69.8
41	Total-tetraoxins	319.8965	25.69	9036.446	1.049	0.290	0.290	0.85	0.77	NO	68.7
41	Total-tetraoxins	319.8965	25.58	10644.590	1.049	0.342	0.342	0.77	0.77	NO	79.3
41	Total-tetraoxins	319.8965	25.33	25253.191	1.049	0.811	0.811	0.81	0.77	NO	177.1
41	Total-tetraoxins	319.8965	25.05	13383.470	1.049	0.430	0.430	0.83	0.77	NO	80.2
41	Total-tetraoxins	319.8965	24.84	11890.947	1.049	0.382	0.382	0.77	0.77	NO	86.9

PD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
42	Total-pentadioxins	355.8546	32.21	14862.262	0.998	0.639	0.639	1.38	1.55	NO	98.6
12	12378-PeCDD	355.8546	31.81	91058.453	0.998	3.918	3.918	1.48	1.55	NO	552.4
42	Total-pentadioxins	355.8546	31.55	358.551	0.998	0.015	0.015	1.70	1.55	NO	3.8
42	Total-pentadioxins	355.8546	31.13	11890.479	0.998	0.512	0.512	1.54	1.55	NO	61.6
42	Total-pentadioxins	355.8546	30.74	61114.852	0.998	2.630	2.630	1.61	1.55	NO	311.3
42	Total-pentadioxins	355.8546	30.56	41529.863	0.998	1.787	1.787	1.55	1.55	NO	258.9
42	Total-pentadioxins	355.8546	30.43	66575.776	0.998	2.864	2.864	1.53	1.55	NO	430.5
42	Total-pentadioxins	355.8546	30.22	57944.129	0.998	2.493	2.493	1.53	1.55	NO	404.7
42	Total-pentadioxins	355.8546	29.60	36471.945	0.998	1.569	1.569	1.57	1.55	NO	242.1
42	Total-pentadioxins	355.8546	29.13	128291.059	0.998	5.520	5.520	1.59	1.55	NO	536.3

VR82: 00913

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

HD

	# Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rat.	1° Rat.	1° R..	S/N
	43 Total-hexadioxins	389.8157	34.10	0.000	0.940	0.000	0.152				5.4
	15 123789-HxCDD	389.8157	37.04	338425.375	0.932	14.747	14.747	1.23	1.24	NO	450.3
	43 Total-hexadioxins	389.8157	36.80	63229.209	0.940	2.732	2.732	1.37	1.24	NO	84.1
	14 123678-HxCDD	389.8157	36.61	613179.125	0.918	26.562	26.562	1.23	1.24	NO	794.0
	13 123478-HxCDD	389.8157	36.49	170189.008	0.971	7.279	7.279	1.26	1.24	NO	231.2
	43 Total-hexadioxins	389.8157	35.63	97904.519	0.940	4.230	4.230	1.20	1.24	NO	135.1
	43 Total-hexadioxins	389.8157	35.52	1423409.938	0.940	61.493	61.493	1.24	1.24	NO	1278.8
	43 Total-hexadioxins	389.8157	35.12	180083.672	0.940	7.780	7.780	1.23	1.24	NO	238.2
	43 Total-hexadioxins	389.8157	34.31	977042.594	0.940	42.209	42.209	1.23	1.24	NO	1316.8

HPD

	# Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rat.	1° Rat.	1° R..	S/N
	16 1234678-HpCDD	423.7766	41.35	11304013....	1.017	509.893	509....	1.04	1.05	NO	5876.9
	44 Total-heptadioxins	423.7766	40.09	13811300....	1.017	622.990	622....	1.04	1.05	NO	7687.7

VR82: 00914

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	35 Total-tetrafurans	303.9016	24.32	0.000	0.877		0.000	1.125	0.65	0.77	YES	74.7
2	35 Total-tetrafurans	303.9016	24.17	45527.711	0.877		1.265	1.265	0.72	0.77	NO	83.5
3	35 Total-tetrafurans	303.9016	24.06	68540.615	0.877		1.905	1.905	0.70	0.77	NO	120.1
4	35 Total-tetrafurans	303.9016	23.90	0.000	0.877		0.000	0.336	0.65	0.77	YES	24.2
5	35 Total-tetrafurans	303.9016	23.82	67577.943	0.877		1.878	1.878	0.72	0.77	NO	122.0
6	35 Total-tetrafurans	303.9016	23.72	28454.592	0.877		0.791	0.791	0.67	0.77	NO	46.2
7	35 Total-tetrafurans	303.9016	23.61	0.000	0.877		0.000	0.705	0.56	0.77	YES	40.9
8	35 Total-tetrafurans	303.9016	23.54	24873.691	0.877		0.691	0.691	0.81	0.77	NO	42.0
9	35 Total-tetrafurans	303.9016	23.42	172286.312	0.877		4.789	4.789	0.73	0.77	NO	295.9
10	35 Total-tetrafurans	303.9016	22.84	38828.473	0.877		1.079	1.079	0.71	0.77	NO	75.2
11	35 Total-tetrafurans	303.9016	22.57	20757.097	0.877		0.577	0.577	0.65	0.77	NO	33.9
12	40 Total-Furans	303.9016	21.30	0.000	1.041		0.000	0.004	0.45	0.77	YES	0.6
13	35 Total-tetrafurans	303.9016	27.50	28805.557	0.877		0.801	0.801	0.75	0.77	NO	41.5
14	35 Total-tetrafurans	303.9016	26.59	0.000	0.877		0.000	0.029	1.77	0.77	YES	3.6
15	35 Total-tetrafurans	303.9016	26.30	68629.258	0.877		1.908	1.908	0.74	0.77	NO	109.0
16	35 Total-tetrafurans	303.9016	26.20	26478.571	0.877		0.736	0.736	0.75	0.77	NO	46.7
17	1 2378-TCDF	303.9016	26.06	60725.498	0.877		1.688	1.688	0.81	0.77	NO	113.1
18	35 Total-tetrafurans	303.9016	25.88	14998.283	0.877		0.417	0.417	0.80	0.77	NO	27.9
19	35 Total-tetrafurans	303.9016	25.82	13718.964	0.877		0.381	0.381	0.81	0.77	NO	28.0
20	35 Total-tetrafurans	303.9016	25.69	0.000	0.877		0.000	0.054	0.61	0.77	YES	3.8
21	35 Total-tetrafurans	303.9016	25.56	12656.696	0.877		0.352	0.352	0.73	0.77	NO	21.4
22	35 Total-tetrafurans	303.9016	25.38	22534.670	0.877		0.626	0.626	0.69	0.77	NO	40.4
23	35 Total-tetrafurans	303.9016	25.15	45219.619	0.877		1.257	1.257	0.69	0.77	NO	72.8
24	35 Total-tetrafurans	303.9016	24.97	78977.809	0.877		2.195	2.195	0.71	0.77	NO	136.7
25	35 Total-tetrafurans	303.9016	24.82	26817.288	0.877		0.745	0.745	0.66	0.77	NO	42.0
26	35 Total-tetrafurans	303.9016	24.73	52810.984	0.877		1.468	1.468	0.69	0.77	NO	84.7
27	37 Total-pentafurans	339.8597	31.30	26251.297	0.911		0.789	0.789	1.33	1.55	NO	85.0
28	37 Total-pentafurans	339.8597	31.06	0.000	0.911		0.000	0.037	3.10	1.55	YES	9.7
29	37 Total-pentafurans	339.8597	30.70	0.000	0.911		0.000	0.053	1.29	1.55	YES	5.9
30	37 Total-pentafurans	339.8597	30.52	13378.222	0.911		0.402	0.402	1.45	1.55	NO	51.1
31	37 Total-pentafurans	339.8597	30.41	46452.017	0.911		1.397	1.397	1.42	1.55	NO	170.1
32	2 12378-PeCDF	339.8597	30.21	49829.940	0.896		1.522	1.522	1.48	1.55	NO	185.8
33	37 Total-pentafurans	339.8597	29.85	123054.351	0.911		3.701	3.701	1.38	1.55	NO	361.8
34	37 Total-pentafurans	339.8597	29.75	19483.879	0.911		0.586	0.586	1.39	1.55	NO	75.8
35	37 Total-pentafurans	339.8597	29.63	12403.256	0.911		0.373	0.373	1.50	1.55	NO	32.9
36	37 Total-pentafurans	339.8597	29.43	0.000	0.911		0.000	0.157	1.24	1.55	YES	20.3
37	37 Total-pentafurans	339.8597	29.27	0.000	0.911		0.000	0.060	1.06	1.55	YES	12.1
38	37 Total-pentafurans	339.8597	29.14	203081.008	0.911		6.107	6.107	1.43	1.55	NO	737.1
39	37 Total-pentafurans	339.8597	29.07	117215.606	0.911		3.525	3.525	1.46	1.55	NO	510.1
40	37 Total-pentafurans	339.8597	28.94	64140.934	0.911		1.929	1.929	1.49	1.55	NO	165.0
41	37 Total-pentafurans	339.8597	32.58	6531.938	0.911		0.196	0.196	1.76	1.55	NO	25.7
42	3 23478-PeCDF	339.8597	31.55	55243.924	0.926		1.636	1.636	1.48	1.55	NO	190.4
43	37 Total-pentafurans	339.8597	31.41	57816.467	0.911		1.739	1.739	1.54	1.55	NO	206.3
44	7 123789-HxCDF	373.8208	37.45	45966.572	0.987		1.564	1.564	1.15	1.24	NO	90.4
45	5 234678-HxCDF	373.8208	36.34	169077.516	1.037		5.848	5.848	1.16	1.24	NO	220.4
46	38 Total-hexafurans	373.8208	35.97	3790.755	1.032		0.128	0.128	1.22	1.24	NO	8.0
47	38 Total-hexafurans	373.8208	35.76	8816.164	1.032		0.297	0.297	1.10	1.24	NO	18.8
48	38 Total-hexafurans	373.8208	35.62	1463.588	1.032		0.049	0.049	1.15	1.24	NO	3.6
49	6 123678-HxCDF	373.8208	35.40	126230.641	1.035		4.145	4.145	1.17	1.24	NO	260.4

VR82: 00915

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
4	123478-HxCDF	373.8208	35.24	120968.914	1.068	4.022	4.022	1.16	1.24	NO	258.5
38	Total-hexafurans	373.8208	35.08	27242.596	1.032	0.917	0.917	1.20	1.24	NO	59.5
38	Total-hexafurans	373.8208	34.58	1192961.875	1.032	40.134	40.134	1.21	1.24	NO	2582.7
38	Total-hexafurans	373.8208	34.27	22438.029	1.032	0.755	0.755	1.10	1.24	NO	44.9
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.110	1.59	1.24	YES	9.7
38	Total-hexafurans	373.8208	33.73	1319761.063	1.032	44.400	44.400	1.19	1.24	NO	2762.1
38	Total-hexafurans	373.8208	33.51	530973.704	1.032	17.863	17.863	1.19	1.24	NO	1186.7
9	1234789-HpCDF	407.7818	42.24	84205.125	1.215	3.673	3.673	0.97	1.05	NO	148.9
39	Total-heptafurans	407.7818	41.36	0.000	1.223	0.000	0.255	1.26	1.05	YES	15.1
39	Total-heptafurans	407.7818	40.33	3309707.375	1.223	128.233	128....	0.99	1.05	NO	6453.4
39	Total-heptafurans	407.7818	40.03	46836.592	1.223	1.815	1.815	0.94	1.05	NO	76.3
8	1234678-HpCDF	407.7818	39.54	1967305.250	1.232	68.469	68.469	0.99	1.05	NO	3904.8
10	OCDF	441.7428	47.57	3521767.125	1.138	183.160	183....	0.83	0.89	NO	7580.3
36	Total-penta1	339.8597	27.48	1185030.219		35.409	35.409	1.53	1.55	NO	14549.2

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.32	0.000	0.877	0.000	1.125	0.65	0.77	YES	74.7
2	35 Total-tetrafurans	303.9016	24.17	45527.711	0.877	1.265	1.265	0.72	0.77	NO	83.5
3	35 Total-tetrafurans	303.9016	24.06	68540.615	0.877	1.905	1.905	0.70	0.77	NO	120.1
4	35 Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.336	0.65	0.77	YES	24.2
5	35 Total-tetrafurans	303.9016	23.82	67577.943	0.877	1.878	1.878	0.72	0.77	NO	122.0
6	35 Total-tetrafurans	303.9016	23.72	28454.592	0.877	0.791	0.791	0.67	0.77	NO	46.2
7	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.705	0.56	0.77	YES	40.9
8	35 Total-tetrafurans	303.9016	23.54	24873.691	0.877	0.691	0.691	0.81	0.77	NO	42.0
9	35 Total-tetrafurans	303.9016	23.42	172286.312	0.877	4.789	4.789	0.73	0.77	NO	295.9
10	35 Total-tetrafurans	303.9016	22.84	38828.473	0.877	1.079	1.079	0.71	0.77	NO	75.2
11	35 Total-tetrafurans	303.9016	22.57	20757.097	0.877	0.577	0.577	0.65	0.77	NO	33.9
12	40 Total-Furans	303.9016	21.30	0.000	1.041	0.000	0.004	0.45	0.77	YES	0.6
13	35 Total-tetrafurans	303.9016	27.50	28805.557	0.877	0.801	0.801	0.75	0.77	NO	41.5
14	35 Total-tetrafurans	303.9016	26.59	0.000	0.877	0.000	0.029	1.77	0.77	YES	3.6
15	35 Total-tetrafurans	303.9016	26.30	68629.258	0.877	1.908	1.908	0.74	0.77	NO	109.0
16	35 Total-tetrafurans	303.9016	26.20	26478.571	0.877	0.736	0.736	0.75	0.77	NO	46.7
17	1 2378-TCDF	303.9016	26.06	60725.498	0.877	1.688	1.688	0.81	0.77	NO	113.1
18	35 Total-tetrafurans	303.9016	25.88	14998.283	0.877	0.417	0.417	0.80	0.77	NO	27.9
19	35 Total-tetrafurans	303.9016	25.82	13718.964	0.877	0.381	0.381	0.81	0.77	NO	28.0
20	35 Total-tetrafurans	303.9016	25.69	0.000	0.877	0.000	0.054	0.61	0.77	YES	3.8
21	35 Total-tetrafurans	303.9016	25.56	12656.696	0.877	0.352	0.352	0.73	0.77	NO	21.4
22	35 Total-tetrafurans	303.9016	25.38	22534.670	0.877	0.626	0.626	0.69	0.77	NO	40.4
23	35 Total-tetrafurans	303.9016	25.15	45219.619	0.877	1.257	1.257	0.69	0.77	NO	72.8
24	35 Total-tetrafurans	303.9016	24.97	78977.809	0.877	2.195	2.195	0.71	0.77	NO	136.7
25	35 Total-tetrafurans	303.9016	24.82	26817.288	0.877	0.745	0.745	0.66	0.77	NO	42.0
26	35 Total-tetrafurans	303.9016	24.73	52810.984	0.877	1.468	1.468	0.69	0.77	NO	84.7
27	37 Total-pentafurans	339.8597	31.30	26251.297	0.911	0.789	0.789	1.33	1.55	NO	85.0
28	37 Total-pentafurans	339.8597	31.06	0.000	0.911	0.000	0.037	3.10	1.55	YES	9.7
29	37 Total-pentafurans	339.8597	30.70	0.000	0.911	0.000	0.053	1.29	1.55	YES	5.9
30	37 Total-pentafurans	339.8597	30.52	13378.222	0.911	0.402	0.402	1.45	1.55	NO	51.1
31	37 Total-pentafurans	339.8597	30.41	46452.017	0.911	1.397	1.397	1.42	1.55	NO	170.1
32	2 12378-PeCDF	339.8597	30.21	49829.940	0.896	1.522	1.522	1.48	1.55	NO	185.8
33	37 Total-pentafurans	339.8597	29.85	123054.351	0.911	3.701	3.701	1.38	1.55	NO	361.8
34	37 Total-pentafurans	339.8597	29.75	19483.879	0.911	0.586	0.586	1.39	1.55	NO	75.8
35	37 Total-pentafurans	339.8597	29.63	12403.256	0.911	0.373	0.373	1.50	1.55	NO	32.9
36	37 Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.157	1.24	1.55	YES	20.3
37	37 Total-pentafurans	339.8597	29.27	0.000	0.911	0.000	0.060	1.06	1.55	YES	12.1
38	37 Total-pentafurans	339.8597	29.14	203081.008	0.911	6.107	6.107	1.43	1.55	NO	737.1
39	37 Total-pentafurans	339.8597	29.07	117215.606	0.911	3.525	3.525	1.46	1.55	NO	510.1
40	37 Total-pentafurans	339.8597	28.94	64140.934	0.911	1.929	1.929	1.49	1.55	NO	165.0
41	37 Total-pentafurans	339.8597	32.58	6531.938	0.911	0.196	0.196	1.76	1.55	NO	25.7
42	3 23478-PeCDF	339.8597	31.55	55243.924	0.926	1.636	1.636	1.48	1.55	NO	190.4
43	37 Total-pentafurans	339.8597	31.41	57816.467	0.911	1.739	1.739	1.54	1.55	NO	206.3
44	7 123789-HxCDF	373.8208	37.45	45966.572	0.987	1.564	1.564	1.15	1.24	NO	90.4
45	5 234678-HxCDF	373.8208	36.34	169077.516	1.037	5.848	5.848	1.16	1.24	NO	220.4
46	38 Total-hexafurans	373.8208	35.97	3790.755	1.032	0.128	0.128	1.22	1.24	NO	8.0
47	38 Total-hexafurans	373.8208	35.76	8816.164	1.032	0.297	0.297	1.10	1.24	NO	18.8
48	38 Total-hexafurans	373.8208	35.62	1463.588	1.032	0.049	0.049	1.15	1.24	NO	3.6
49	6 123678-HxCDF	373.8208	35.40	126230.641	1.035	4.145	4.145	1.17	1.24	NO	260.4

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
50	4 123478-HxCDF	373.8208	35.24	120968.914	1.068	4.022	4.022	1.16	1.24	NO	258.5
51	38 Total-hexa-furans	373.8208	35.08	27242.596	1.032	0.917	0.917	1.20	1.24	NO	59.5
52	38 Total-hexa-furans	373.8208	34.58	1192961.875	1.032	40.134	40.134	1.21	1.24	NO	2582.7
53	38 Total-hexa-furans	373.8208	34.27	22438.029	1.032	0.755	0.755	1.10	1.24	NO	44.9
54	38 Total-hexa-furans	373.8208	34.00	0.000	1.032	0.000	0.110	1.59	1.24	YES	9.7
55	38 Total-hexa-furans	373.8208	33.73	1319761.063	1.032	44.400	44.400	1.19	1.24	NO	2762.1
56	38 Total-hexa-furans	373.8208	33.51	530973.704	1.032	17.863	17.863	1.19	1.24	NO	1186.7
57	9 1234789-HpCDF	407.7818	42.24	84205.125	1.215	3.673	3.673	0.97	1.05	NO	148.9
58	39 Total-hepta-furans	407.7818	41.36	0.000	1.223	0.000	0.255	1.26	1.05	YES	15.1
59	39 Total-hepta-furans	407.7818	40.33	3309707.375	1.223	128.233	128....	0.99	1.05	NO	6453.4
60	39 Total-hepta-furans	407.7818	40.03	46836.592	1.223	1.815	1.815	0.94	1.05	NO	76.3
61	8 1234678-HpCDF	407.7818	39.54	1967305.250	1.232	68.469	68.469	0.99	1.05	NO	3904.8
62	10 OCDF	441.7428	47.57	3521767.125	1.138	183.160	183....	0.83	0.89	NO	7580.3
63	36 Total-penta1	339.8597	27.48	1185030.219		35.409	35.409	1.53	1.55	NO	14549.2
64	35 Total-tetra-furans	303.9016	24.32	0.000	0.877	0.000	1.125	0.65	0.77	YES	74.7
65	35 Total-tetra-furans	303.9016	24.17	45527.711	0.877	1.265	1.265	0.72	0.77	NO	83.5
66	35 Total-tetra-furans	303.9016	24.06	68540.615	0.877	1.905	1.905	0.70	0.77	NO	120.1
67	35 Total-tetra-furans	303.9016	23.90	0.000	0.877	0.000	0.336	0.65	0.77	YES	24.2
68	35 Total-tetra-furans	303.9016	23.82	67577.943	0.877	1.878	1.878	0.72	0.77	NO	122.0
69	35 Total-tetra-furans	303.9016	23.72	28454.592	0.877	0.791	0.791	0.67	0.77	NO	46.2
70	35 Total-tetra-furans	303.9016	23.61	0.000	0.877	0.000	0.705	0.56	0.77	YES	40.9
71	35 Total-tetra-furans	303.9016	23.54	24873.691	0.877	0.691	0.691	0.81	0.77	NO	42.0
72	35 Total-tetra-furans	303.9016	23.42	172286.312	0.877	4.789	4.789	0.73	0.77	NO	295.9
73	35 Total-tetra-furans	303.9016	22.84	38828.473	0.877	1.079	1.079	0.71	0.77	NO	75.2
74	35 Total-tetra-furans	303.9016	22.57	20757.097	0.877	0.577	0.577	0.65	0.77	NO	33.9
75	40 Total-Furans	303.9016	21.30	0.000	1.041	0.000	0.004	0.45	0.77	YES	0.6
76	35 Total-tetra-furans	303.9016	27.50	28805.557	0.877	0.801	0.801	0.75	0.77	NO	41.5
77	35 Total-tetra-furans	303.9016	26.59	0.000	0.877	0.000	0.029	1.77	0.77	YES	3.6
78	35 Total-tetra-furans	303.9016	26.30	68629.258	0.877	1.908	1.908	0.74	0.77	NO	109.0
79	35 Total-tetra-furans	303.9016	26.20	26478.571	0.877	0.736	0.736	0.75	0.77	NO	46.7
80	1 2378-TCDF	303.9016	26.06	60725.498	0.877	1.688	1.688	0.81	0.77	NO	113.1
81	35 Total-tetra-furans	303.9016	25.88	14998.283	0.877	0.417	0.417	0.80	0.77	NO	27.9
82	35 Total-tetra-furans	303.9016	25.82	13718.964	0.877	0.381	0.381	0.81	0.77	NO	28.0
83	35 Total-tetra-furans	303.9016	25.69	0.000	0.877	0.000	0.054	0.61	0.77	YES	3.8
84	35 Total-tetra-furans	303.9016	25.56	12656.696	0.877	0.352	0.352	0.73	0.77	NO	21.4
85	35 Total-tetra-furans	303.9016	25.38	22534.670	0.877	0.626	0.626	0.69	0.77	NO	40.4
86	35 Total-tetra-furans	303.9016	25.15	45219.619	0.877	1.257	1.257	0.69	0.77	NO	72.8
87	35 Total-tetra-furans	303.9016	24.97	78977.809	0.877	2.195	2.195	0.71	0.77	NO	136.7
88	35 Total-tetra-furans	303.9016	24.82	26817.288	0.877	0.745	0.745	0.66	0.77	NO	42.0
89	35 Total-tetra-furans	303.9016	24.73	52810.984	0.877	1.468	1.468	0.69	0.77	NO	84.7
90	37 Total-penta-furans	339.8597	31.30	26251.297	0.911	0.789	0.789	1.33	1.55	NO	85.0
91	37 Total-penta-furans	339.8597	31.06	0.000	0.911	0.000	0.037	3.10	1.55	YES	9.7
92	37 Total-penta-furans	339.8597	30.70	0.000	0.911	0.000	0.053	1.29	1.55	YES	5.9
93	37 Total-penta-furans	339.8597	30.52	13378.222	0.911	0.402	0.402	1.45	1.55	NO	51.1
94	37 Total-penta-furans	339.8597	30.41	46452.017	0.911	1.397	1.397	1.42	1.55	NO	170.1
95	2 12378-PeCDF	339.8597	30.21	49829.940	0.896	1.522	1.522	1.48	1.55	NO	185.8
96	37 Total-penta-furans	339.8597	29.85	123054.351	0.911	3.701	3.701	1.38	1.55	NO	361.8
97	37 Total-penta-furans	339.8597	29.75	19483.879	0.911	0.586	0.586	1.39	1.55	NO	75.8
98	37 Total-penta-furans	339.8597	29.63	12403.256	0.911	0.373	0.373	1.50	1.55	NO	32.9

VR82: 00518

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R	S/N
99	37 Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.157	1.24	1.55	YES	20.3
100	37 Total-pentafurans	339.8597	29.27	0.000	0.911	0.000	0.060	1.06	1.55	YES	12.1
101	37 Total-pentafurans	339.8597	29.14	203081.008	0.911	6.107	6.107	1.43	1.55	NO	737.1
102	37 Total-pentafurans	339.8597	29.07	117215.606	0.911	3.525	3.525	1.46	1.55	NO	510.1
103	37 Total-pentafurans	339.8597	28.94	64140.934	0.911	1.929	1.929	1.49	1.55	NO	165.0
104	37 Total-pentafurans	339.8597	32.58	6531.938	0.911	0.196	0.196	1.76	1.55	NO	25.7
105	3 23478-PeCDF	339.8597	31.55	55243.924	0.926	1.636	1.636	1.48	1.55	NO	190.4
106	37 Total-pentafurans	339.8597	31.41	57816.467	0.911	1.739	1.739	1.54	1.55	NO	206.3
107	7 123789-HxCDF	373.8208	37.45	45966.572	0.987	1.564	1.564	1.15	1.24	NO	90.4
108	5 234678-HxCDF	373.8208	36.34	169077.516	1.037	5.848	5.848	1.16	1.24	NO	220.4
109	38 Total-hexafurans	373.8208	35.97	3790.755	1.032	0.128	0.128	1.22	1.24	NO	8.0
110	38 Total-hexafurans	373.8208	35.76	8816.164	1.032	0.297	0.297	1.10	1.24	NO	18.8
111	38 Total-hexafurans	373.8208	35.62	1463.588	1.032	0.049	0.049	1.15	1.24	NO	3.6
112	6 123678-HxCDF	373.8208	35.40	126230.641	1.035	4.145	4.145	1.17	1.24	NO	260.4
113	4 123478-HxCDF	373.8208	35.24	120968.914	1.068	4.022	4.022	1.16	1.24	NO	258.5
114	38 Total-hexafurans	373.8208	35.08	27242.596	1.032	0.917	0.917	1.20	1.24	NO	59.5
115	38 Total-hexafurans	373.8208	34.58	1192961.875	1.032	40.134	40.134	1.21	1.24	NO	2582.7
116	38 Total-hexafurans	373.8208	34.27	22438.029	1.032	0.755	0.755	1.10	1.24	NO	44.9
117	38 Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.110	1.59	1.24	YES	9.7
118	38 Total-hexafurans	373.8208	33.73	1319761.063	1.032	44.400	44.400	1.19	1.24	NO	2762.1
119	38 Total-hexafurans	373.8208	33.51	530973.704	1.032	17.863	17.863	1.19	1.24	NO	1186.7
120	9 1234789-HpCDF	407.7818	42.24	84205.125	1.215	3.673	3.673	0.97	1.05	NO	148.9
121	39 Total-heptafurans	407.7818	41.36	0.000	1.223	0.000	0.255	1.26	1.05	YES	15.1
122	39 Total-heptafurans	407.7818	40.33	3309707.375	1.223	128.233	128....	0.99	1.05	NO	6453.4
123	39 Total-heptafurans	407.7818	40.03	46836.592	1.223	1.815	1.815	0.94	1.05	NO	76.3
124	8 1234678-HpCDF	407.7818	39.54	1967305.250	1.232	68.469	68.469	0.99	1.05	NO	3904.8
125	10 OCDF	441.7428	47.57	3521767.125	1.138	183.160	183....	0.83	0.89	NO	7580.3
126	36 Total-penta1	339.8597	27.48	1185030.219		35.409	35.409	1.53	1.55	NO	14549.2

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Ratl..	1° Ratl..	1° R..	S/N
1	48 FUNCTION1 PFK	330.9792	22.40	0.000							3.0
2	48 FUNCTION1 PFK	330.9792	22.33	0.000							3.8
3	48 FUNCTION1 PFK	330.9792	22.06	0.000							8.9
4	48 FUNCTION1 PFK	330.9792	21.86	0.000							11.7
5	48 FUNCTION1 PFK	330.9792	21.82	0.000							12.4
6	48 FUNCTION1 PFK	330.9792	21.67	0.000							15.0
7	48 FUNCTION1 PFK	330.9792	21.36	0.000							19.8
8	48 FUNCTION1 PFK	330.9792	21.31	0.000							20.1
9	48 FUNCTION1 PFK	330.9792	21.24	0.000							20.3
10	48 FUNCTION1 PFK	330.9792	21.12	0.000							22.2
11	48 FUNCTION1 PFK	330.9792	24.54	0.000							1.0
12	48 FUNCTION1 PFK	330.9792	24.40	0.000							1.3
13	48 FUNCTION1 PFK	330.9792	24.32	0.000							1.5
14	48 FUNCTION1 PFK	330.9792	24.18	0.000							1.4
15	48 FUNCTION1 PFK	330.9792	24.09	0.000							0.7
16	48 FUNCTION1 PFK	330.9792	23.88	0.000							1.2
17	48 FUNCTION1 PFK	330.9792	23.84	0.000							2.5
18	48 FUNCTION1 PFK	330.9792	23.67	0.000							1.5
19	48 FUNCTION1 PFK	330.9792	23.55	0.000							0.9
20	48 FUNCTION1 PFK	330.9792	23.45	0.000							1.2
21	48 FUNCTION1 PFK	330.9792	23.27	0.000							0.4
22	48 FUNCTION1 PFK	330.9792	23.21	0.000							0.7
23	48 FUNCTION1 PFK	330.9792	23.15	0.000							0.8
24	48 FUNCTION1 PFK	330.9792	22.94	0.000							1.8
25	48 FUNCTION1 PFK	330.9792	22.90	0.000							1.9
26	48 FUNCTION1 PFK	330.9792	22.48	0.000							1.8
27	48 FUNCTION1 PFK	330.9792	26.65	0.000							0.9
28	48 FUNCTION1 PFK	330.9792	26.39	0.000							0.8
29	48 FUNCTION1 PFK	330.9792	26.24	0.000							0.7
30	48 FUNCTION1 PFK	330.9792	26.09	0.000							2.2
31	48 FUNCTION1 PFK	330.9792	25.97	0.000							1.7
32	48 FUNCTION1 PFK	330.9792	25.90	0.000							1.2
33	48 FUNCTION1 PFK	330.9792	25.81	0.000							2.9
34	48 FUNCTION1 PFK	330.9792	25.73	0.000							1.7
35	48 FUNCTION1 PFK	330.9792	25.58	0.000							1.7
36	48 FUNCTION1 PFK	330.9792	25.51	0.000							1.0
37	48 FUNCTION1 PFK	330.9792	25.24	0.000							0.6
38	48 FUNCTION1 PFK	330.9792	25.14	0.000							0.5
39	48 FUNCTION1 PFK	330.9792	25.08	0.000							0.9
40	48 FUNCTION1 PFK	330.9792	24.93	0.000							1.3
41	48 FUNCTION1 PFK	330.9792	24.70	0.000							2.6
42	48 FUNCTION1 PFK	330.9792	24.58	0.000							1.0
43	48 FUNCTION1 PFK	330.9792	28.09	0.000							3.0
44	48 FUNCTION1 PFK	330.9792	27.93	0.000							0.3
45	48 FUNCTION1 PFK	330.9792	27.47	0.000							3.7
46	48 FUNCTION1 PFK	330.9792	27.36	0.000							1.9
47	48 FUNCTION1 PFK	330.9792	27.29	0.000							1.7
48	48 FUNCTION1 PFK	330.9792	27.09	0.000							0.7
49	48 FUNCTION1 PFK	330.9792	26.91	0.000							0.7

VR82: 00920

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

PFK1

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rafi..	1° Rafi..	1° R..	S/N
50	48 FUNCTION1 PFK	330.9792	26.77	0.000							0.8
51	48 FUNCTION1 PFK	330.9792	26.71	0.000							0.4

PFK2

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rafi..	1° Rafi..	1° R..	S/N
1	49 FUNCTION2 PFK	366.9792	29.60	0.000		0.000					3.2
2	49 FUNCTION2 PFK	366.9792	28.93	0.000		0.000					0.7
3	49 FUNCTION2 PFK	366.9792	28.58	0.000		0.000					1.1
4	49 FUNCTION2 PFK	366.9792	28.52	0.000		0.000					0.5
5	49 FUNCTION2 PFK	366.9792	28.42	0.000		0.000					1.6
6	49 FUNCTION2 PFK	366.9792	28.39	0.000		0.000					2.4
7	49 FUNCTION2 PFK	366.9792	33.02	0.000		0.000					1.0
8	49 FUNCTION2 PFK	366.9792	32.21	0.000		0.000					0.4
9	49 FUNCTION2 PFK	366.9792	32.16	0.000		0.000					1.4
10	49 FUNCTION2 PFK	366.9792	31.87	0.000		0.000					1.5
11	49 FUNCTION2 PFK	366.9792	31.69	0.000		0.000					1.3
12	49 FUNCTION2 PFK	366.9792	31.64	0.000		0.000					1.3
13	49 FUNCTION2 PFK	366.9792	31.10	0.000		0.000					0.9
14	49 FUNCTION2 PFK	366.9792	30.91	0.000		0.000					0.7
15	49 FUNCTION2 PFK	366.9792	30.74	0.000		0.000					0.6
16	49 FUNCTION2 PFK	366.9792	30.56	0.000		0.000					0.6
17	49 FUNCTION2 PFK	366.9792	30.53	0.000		0.000					1.1
18	49 FUNCTION2 PFK	366.9792	30.15	0.000		0.000					0.8
19	49 FUNCTION2 PFK	366.9792	30.10	0.000		0.000					1.4
20	49 FUNCTION2 PFK	366.9792	30.04	0.000		0.000					1.6
21	49 FUNCTION2 PFK	366.9792	29.85	0.000		0.000					1.5

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rafi..	1° Rafi..	1° R..	S/N
1	50 FUNCTION3 PFK	380.9760	37.48	0.000		0.000					23.5
2	50 FUNCTION3 PFK	380.9760	37.34	0.000		0.000					21.6

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
51	FUNCTION4 PFK	430.9728	42.16	0.000							1.1
51	FUNCTION4 PFK	430.9728	41.83	0.000							0.8
51	FUNCTION4 PFK	430.9728	41.27	0.000							2.0
51	FUNCTION4 PFK	430.9728	41.16	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.30	0.000							0.9
51	FUNCTION4 PFK	430.9728	39.92	0.000							1.4
51	FUNCTION4 PFK	430.9728	39.74	0.000							1.5
51	FUNCTION4 PFK	430.9728	39.13	0.000							0.6
51	FUNCTION4 PFK	430.9728	39.09	0.000							1.4
51	FUNCTION4 PFK	430.9728	38.83	0.000							0.4
51	FUNCTION4 PFK	430.9728	38.78	0.000							1.4
51	FUNCTION4 PFK	430.9728	38.72	0.000							1.3
51	FUNCTION4 PFK	430.9728	38.57	0.000							0.7
51	FUNCTION4 PFK	430.9728	44.55	0.000							1.8
51	FUNCTION4 PFK	430.9728	44.25	0.000							1.8
51	FUNCTION4 PFK	430.9728	44.18	0.000							1.3
51	FUNCTION4 PFK	430.9728	43.74	0.000							1.1
51	FUNCTION4 PFK	430.9728	43.28	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.09	0.000							1.3
51	FUNCTION4 PFK	430.9728	42.94	0.000							1.7
51	FUNCTION4 PFK	430.9728	42.81	0.000							0.6
51	FUNCTION4 PFK	430.9728	42.76	0.000							1.0
51	FUNCTION4 PFK	430.9728	42.63	0.000							1.5
51	FUNCTION4 PFK	430.9728	42.53	0.000							0.9
51	FUNCTION4 PFK	430.9728	42.44	0.000							1.0
51	FUNCTION4 PFK	430.9728	42.20	0.000							1.2

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

ETHERS1

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Ratl..	1° Ratl..	1° R..	S/N
1	53 FUNCTION1 HXCD...	375.8364	21.19	0.000		0.000					2.7
2	53 FUNCTION1 HXCD...	375.8364	28.08	0.000		0.000					2.4
3	53 FUNCTION1 HXCD...	375.8364	27.89	0.000		0.000					3.2
4	53 FUNCTION1 HXCD...	375.8364	27.63	0.000		0.000					1.9
5	53 FUNCTION1 HXCD...	375.8364	27.12	0.000		0.000					2.8
6	53 FUNCTION1 HXCD...	375.8364	25.94	0.000		0.000					3.2
7	53 FUNCTION1 HXCD...	375.8364	25.87	0.000		0.000					3.7
8	53 FUNCTION1 HXCD...	375.8364	25.33	0.000		0.000					3.9
9	53 FUNCTION1 HXCD...	375.8364	25.12	0.000		0.000					2.4
10	53 FUNCTION1 HXCD...	375.8364	25.06	0.000		0.000					2.8
11	53 FUNCTION1 HXCD...	375.8364	24.12	0.000		0.000					2.2
12	53 FUNCTION1 HXCD...	375.8364	23.93	0.000		0.000					31.2
13	53 FUNCTION1 HXCD...	375.8364	23.81	0.000		0.000					3.4
14	53 FUNCTION1 HXCD...	375.8364	22.57	0.000		0.000					7.0
15	53 FUNCTION1 HXCD...	375.8364	22.52	0.000		0.000					8.3
16	53 FUNCTION1 HXCD...	375.8364	21.79	0.000		0.000					2.7

ETHERS2

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Ratl..	1° Ratl..	1° R..	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.62	0.000		0.000					1.8
2	54 FUNCTION1 HPCD...	409.7974	27.50	0.000		0.000					2.3
3	54 FUNCTION1 HPCD...	409.7974	27.02	0.000		0.000					3.2
4	54 FUNCTION1 HPCD...	409.7974	25.90	0.000		0.000					4.3
5	54 FUNCTION1 HPCD...	409.7974	25.44	0.000		0.000					1.9
6	54 FUNCTION1 HPCD...	409.7974	24.67	0.000		0.000					1.8
7	54 FUNCTION1 HPCD...	409.7974	24.58	0.000		0.000					1.9
8	54 FUNCTION1 HPCD...	409.7974	23.82	0.000		0.000					3.1
9	54 FUNCTION1 HPCD...	409.7974	23.52	0.000		0.000					2.8
10	54 FUNCTION1 HPCD...	409.7974	22.54	0.000		0.000					2.7
11	54 FUNCTION1 HPCD...	409.7974	22.39	0.000		0.000					2.2
12	54 FUNCTION1 HPCD...	409.7974	22.28	0.000		0.000					2.0
13	54 FUNCTION1 HPCD...	409.7974	21.85	0.000		0.000					2.4
14	54 FUNCTION1 HPCD...	409.7974	21.19	0.000		0.000					2.2

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.29	0.000		0.000					1.7
2	55 FUNCTION2 HPCD...	409.7974	33.02	0.000		0.000					1.7
3	55 FUNCTION2 HPCD...	409.7974	32.81	0.000		0.000					1.7
4	55 FUNCTION2 HPCD...	409.7974	32.70	0.000		0.000					1.5
5	55 FUNCTION2 HPCD...	409.7974	32.23	0.000		0.000					1.6
6	55 FUNCTION2 HPCD...	409.7974	31.80	0.000		0.000					2.6
7	55 FUNCTION2 HPCD...	409.7974	31.67	0.000		0.000					1.5
8	55 FUNCTION2 HPCD...	409.7974	30.78	0.000		0.000					1.5
9	55 FUNCTION2 HPCD...	409.7974	30.21	0.000		0.000					5.1
10	55 FUNCTION2 HPCD...	409.7974	30.15	0.000		0.000					4.4
11	55 FUNCTION2 HPCD...	409.7974	30.02	0.000		0.000					2.2
12	55 FUNCTION2 HPCD...	409.7974	29.85	0.000		0.000					6.2

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	36.45	0.000		0.000					4.2
2	56 FUNCTION3 OCDPE	445.7555	35.81	0.000		0.000					5.1
3	56 FUNCTION3 OCDPE	445.7555	35.43	0.000		0.000					4.1

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	42.74	0.000		0.000					1.8
2	57 FUNCTION4 NCDPE	479.7165	41.31	0.000		0.000					2.8
3	57 FUNCTION4 NCDPE	479.7165	41.19	0.000		0.000					3.3
4	57 FUNCTION4 NCDPE	479.7165	41.08	0.000		0.000					3.3
5	57 FUNCTION4 NCDPE	479.7165	40.96	0.000		0.000					2.2
6	57 FUNCTION4 NCDPE	479.7165	40.45	0.000		0.000					2.0
7	57 FUNCTION4 NCDPE	479.7165	40.09	0.000		0.000					2.1
8	57 FUNCTION4 NCDPE	479.7165	39.91	0.000		0.000					3.5
9	57 FUNCTION4 NCDPE	479.7165	39.12	0.000		0.000					864.5

ETHERS6

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	58 FUNCTION5 DCDPE	513.6775	47.31	0.000		0.000					21.6

VR82 : 00924

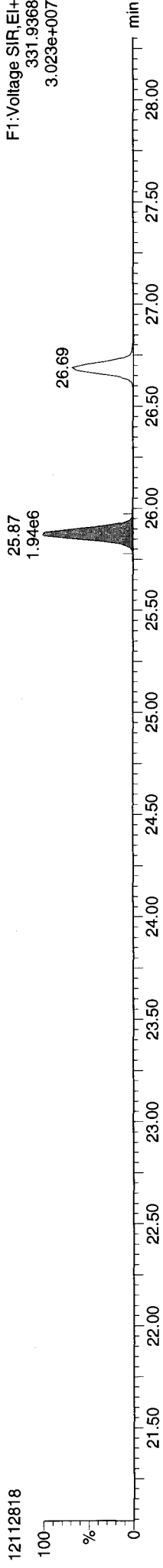
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Method: P:\DIOXIN8290.PROMethDB\Dioxin\121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

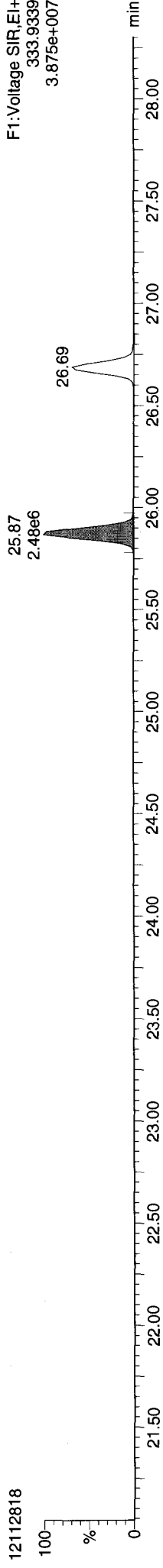
13C-1234-TCDD

12112818



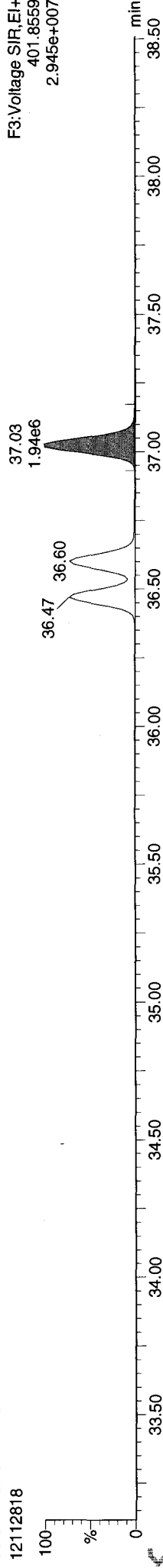
13C-1234-TCDD

12112818



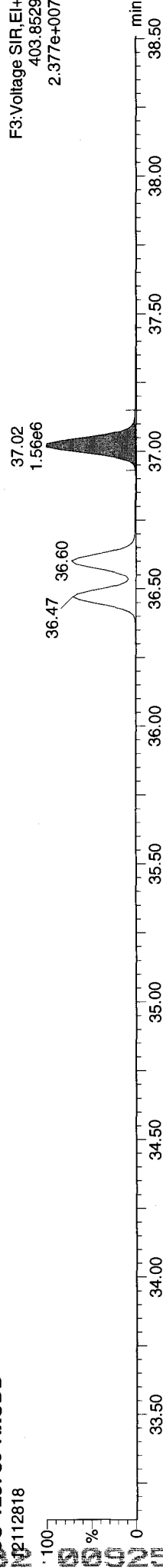
13C-123789-HxCDD

12112818



13C-123789-HxCDD

12112818



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

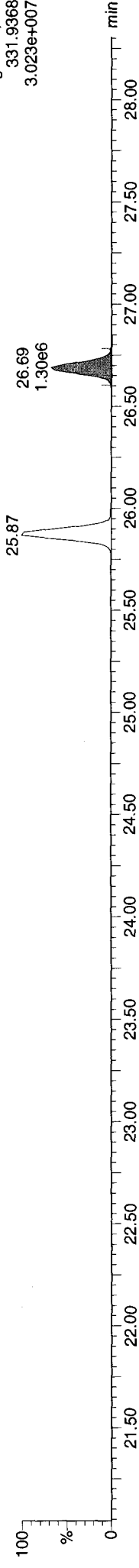
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

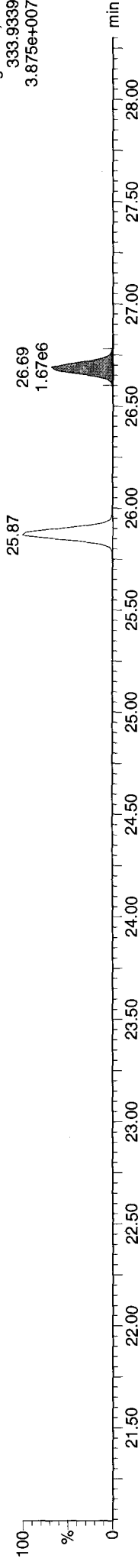
13C-2378-TCDD

12112818



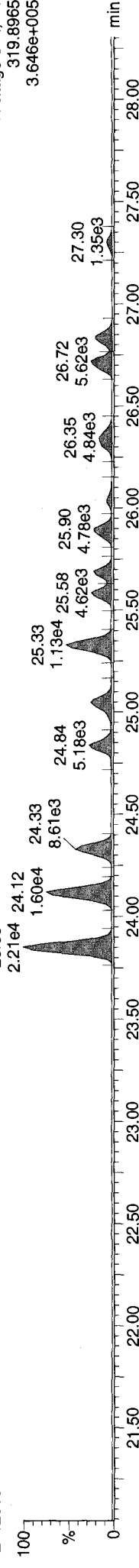
13C-2378-TCDD

12112818



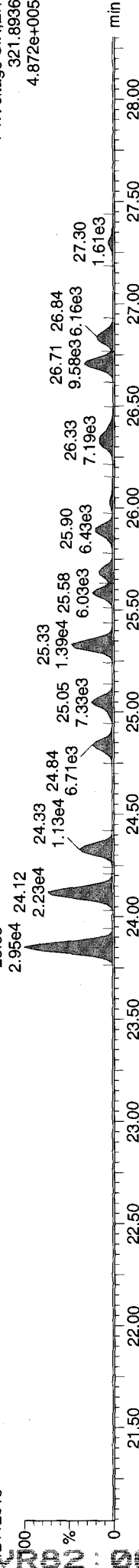
Total-tetraoxins

12112818



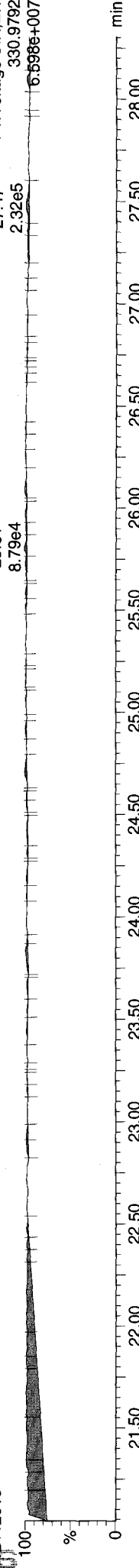
Total-tetraoxins

12112818



FUNCTION1 PFK

12112818



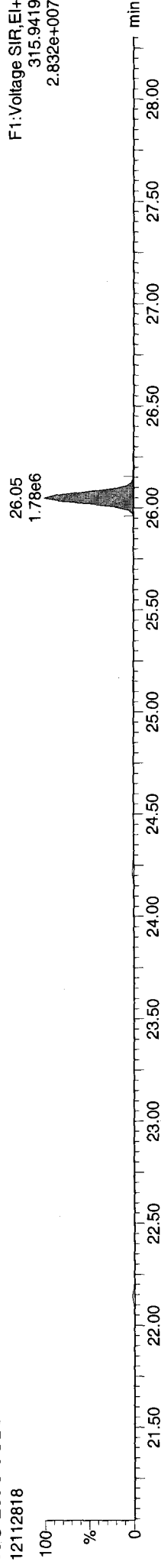
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Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

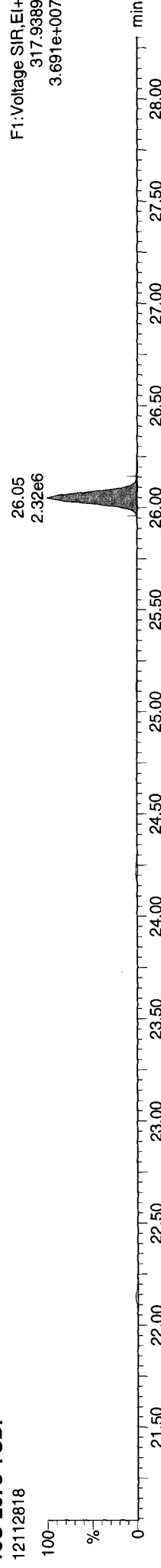
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Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

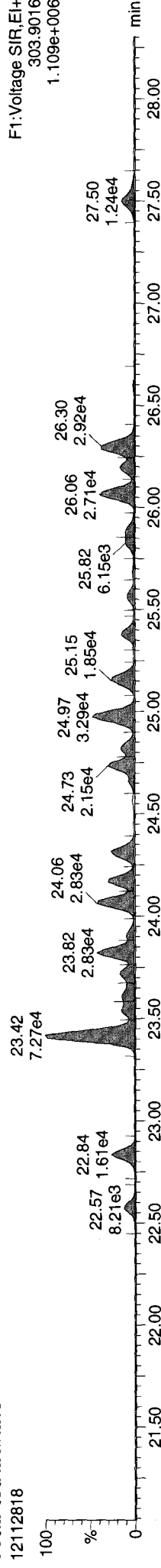
13C-2378-TCDF



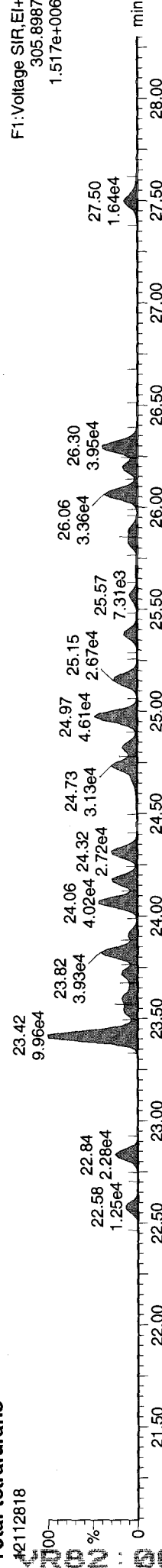
13C-2378-TCDF



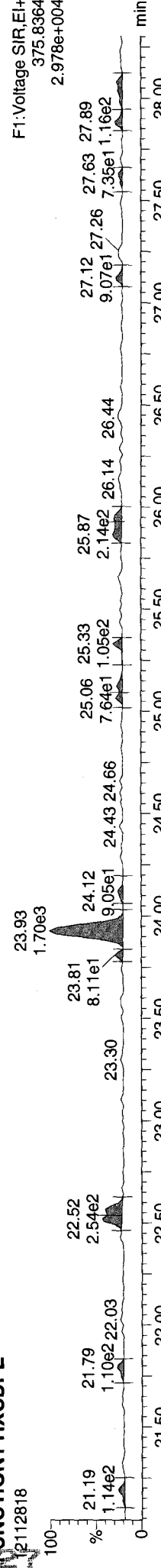
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

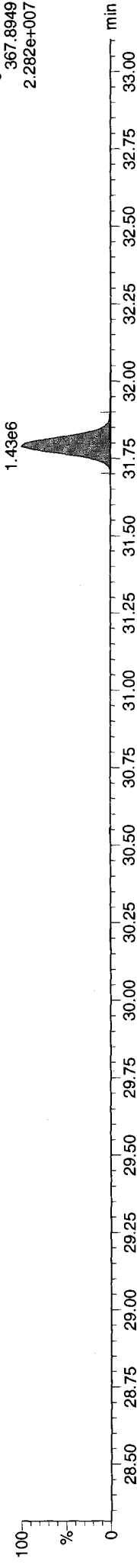
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

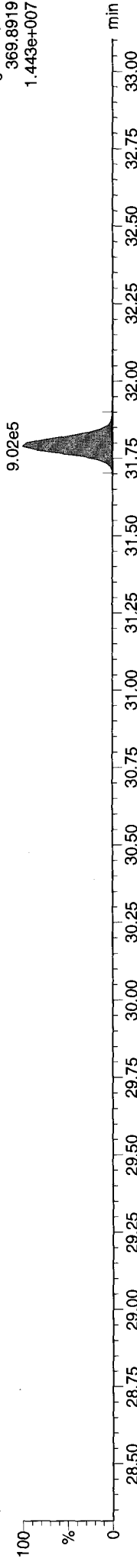
13C-12378-PeCDD

12112818



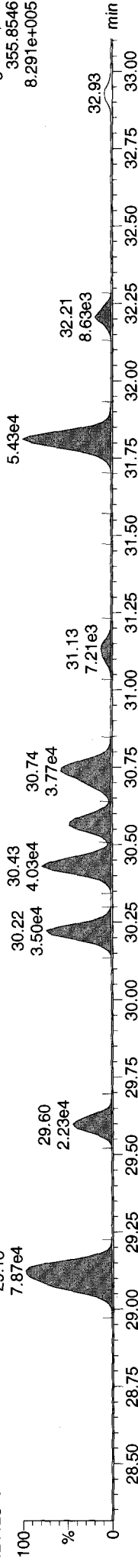
13C-12378-PeCDD

12112818



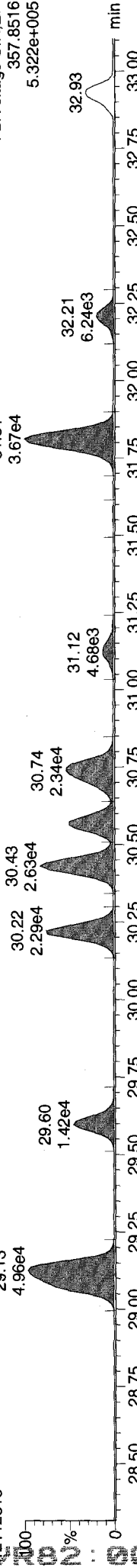
Total-pentadioxins

12112818



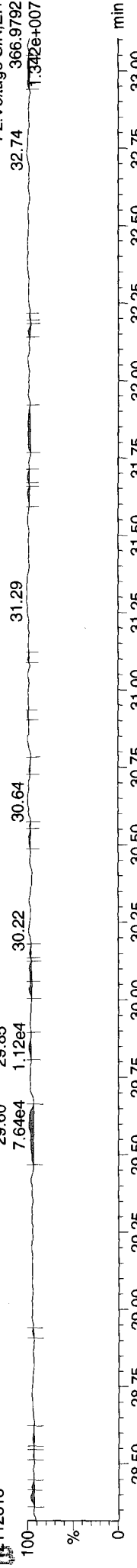
Total-pentadioxins

12112818



FUNCTION2 PFK

12112818



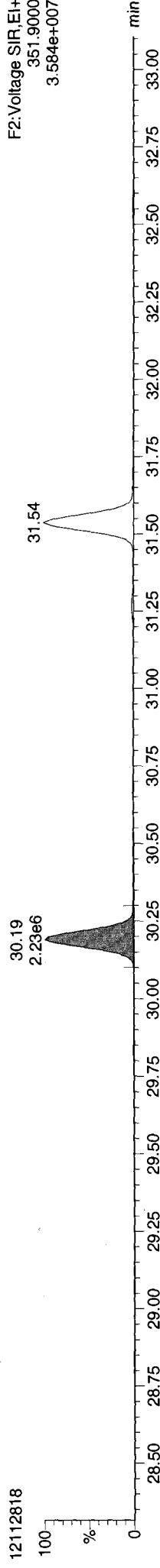
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

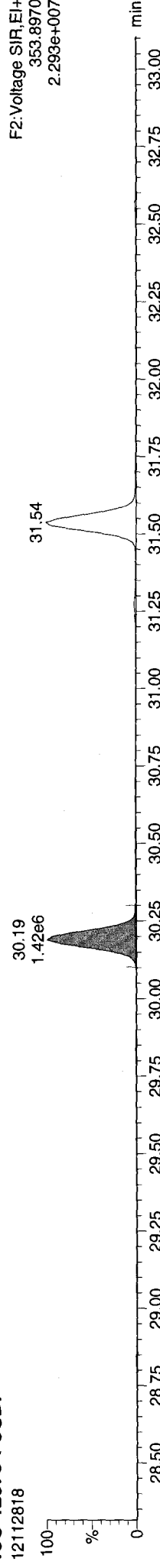
Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

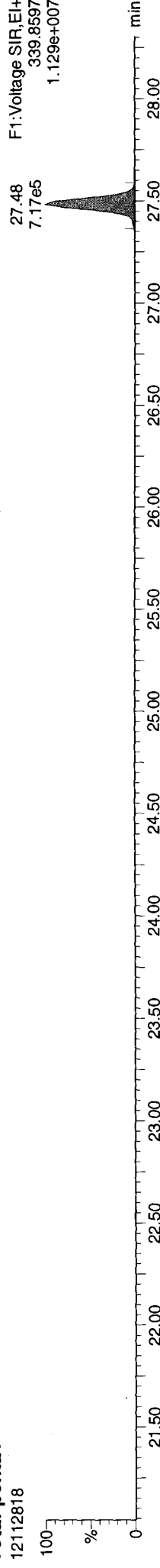
13C-12378-PeCDF



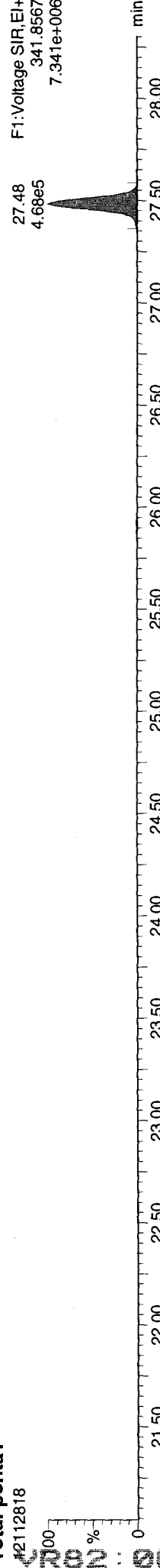
13C-12378-PeCDF



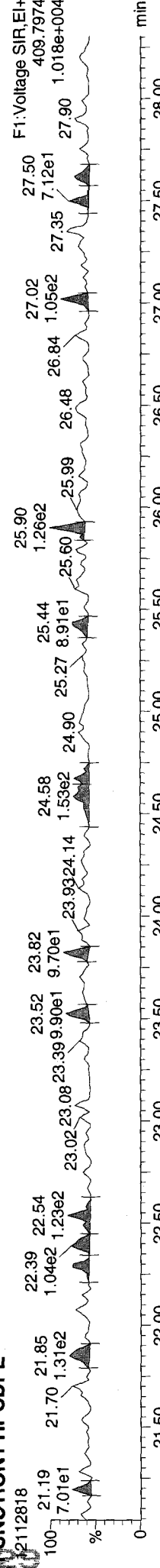
Total-penta1



Total-penta1



JUNCTION1 HPCDPE



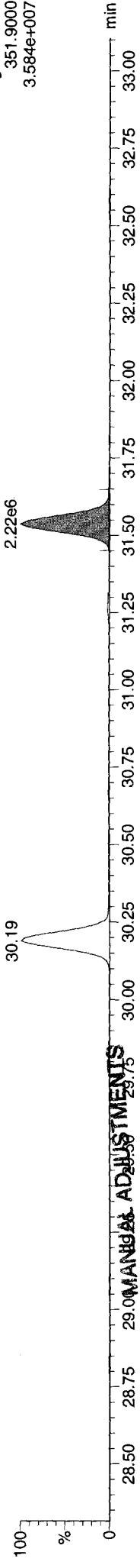
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF

12112818

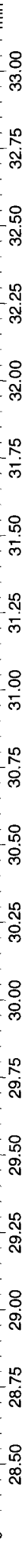


13C-23478-PeCDF

12112818

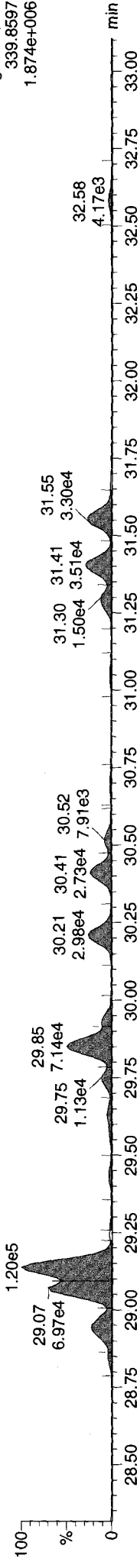
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: [Signature] Date: 12/11/12



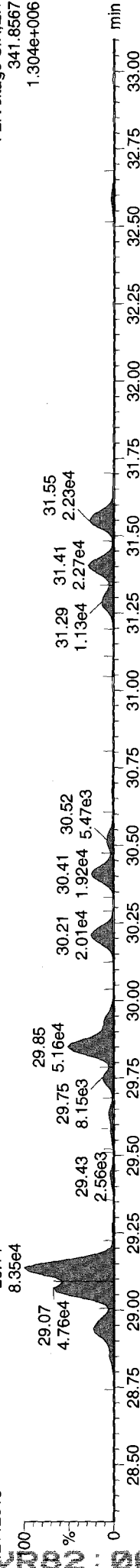
Total-pentafurans

12112818



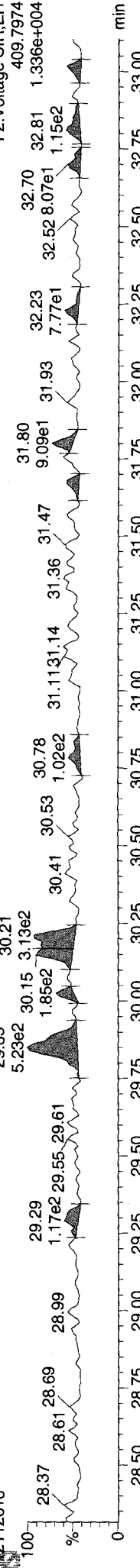
Total-pentafurans

12112818



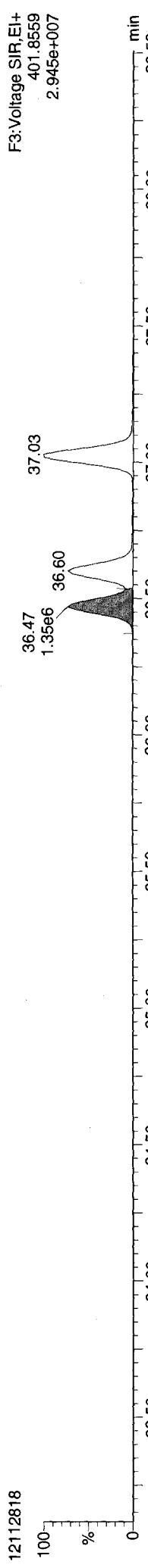
FUNCTION2 HPCDPE

12112818

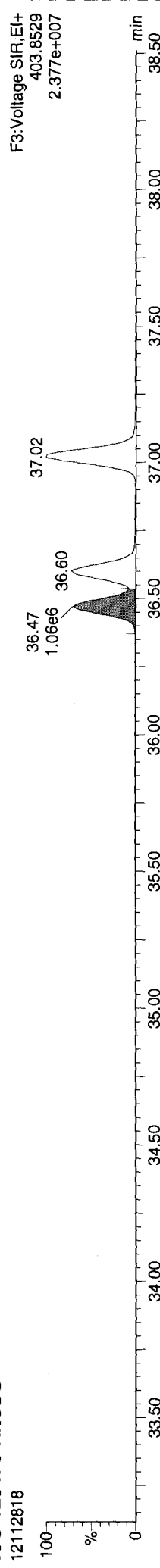


Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

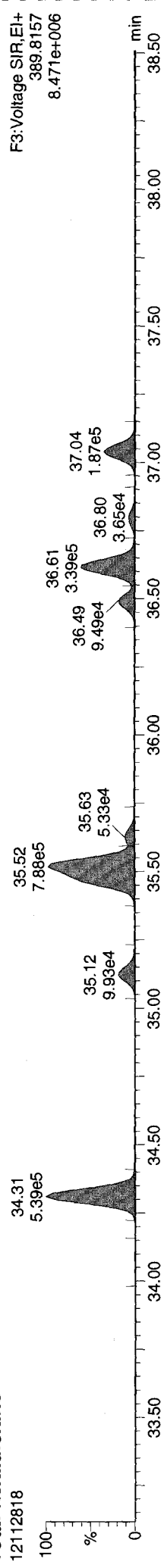
13C-123478-HxCDD



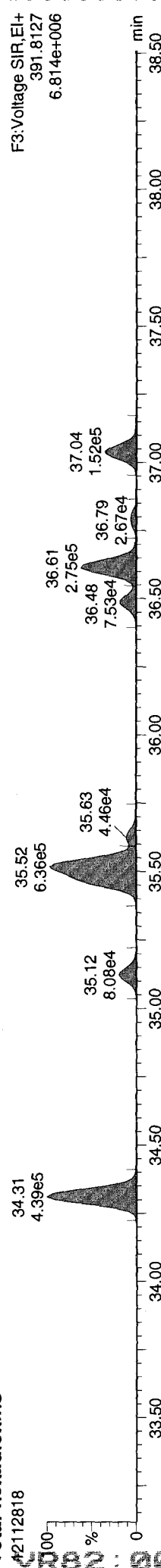
13C-123478-HxCDD



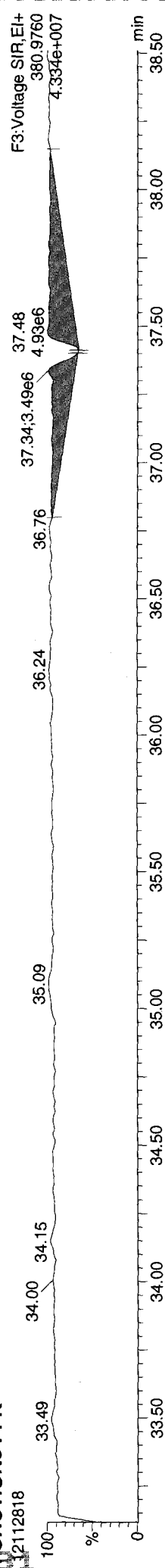
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

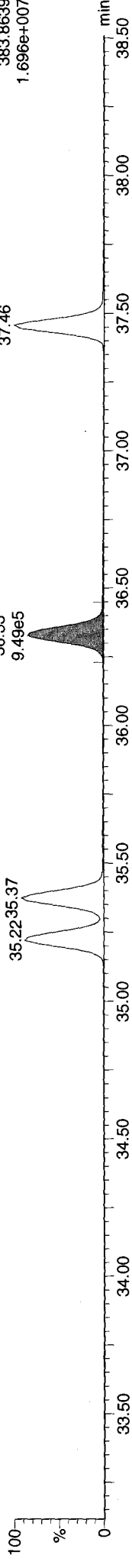
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

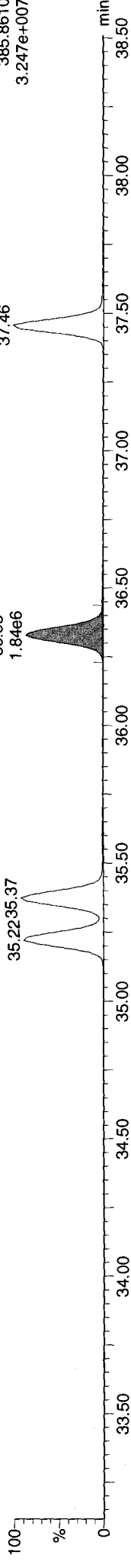
13C-234678-HxCDF

12112818



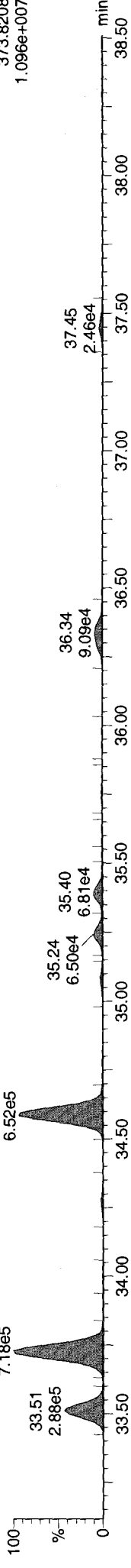
13C-234678-HxCDF

12112818



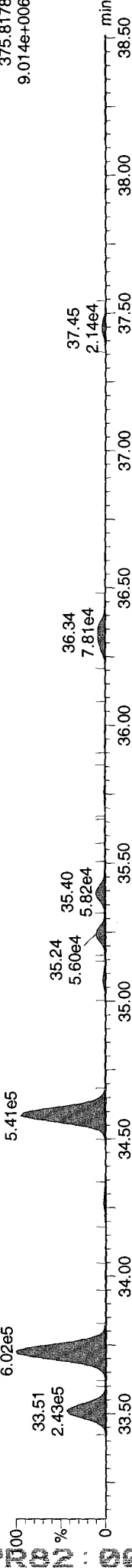
Total-hexafurans

12112818



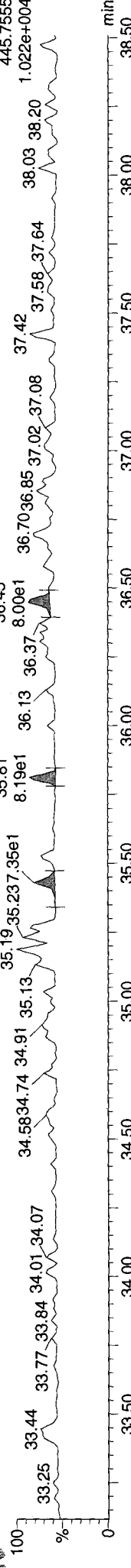
Total-hexafurans

12112818



JUNCTION3 OCDFE

12112818



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

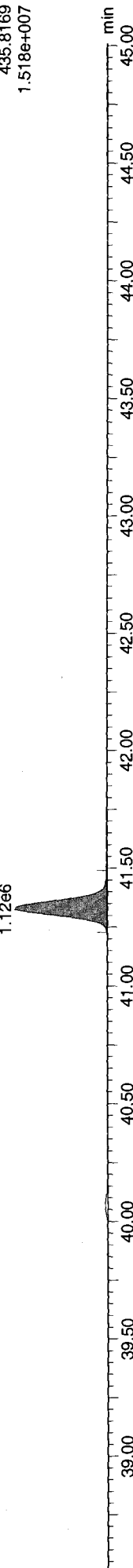
Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

12112818

100
%
0

41.33
1.12e6



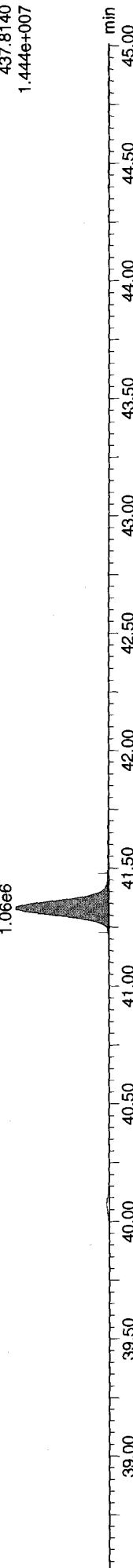
F4: Voltage SIR, EI+
435.8169
1.518e+007

13C-1234678-HpCDD

12112818

100
%
0

41.33
1.06e6



F4: Voltage SIR, EI+
437.8140
1.444e+007

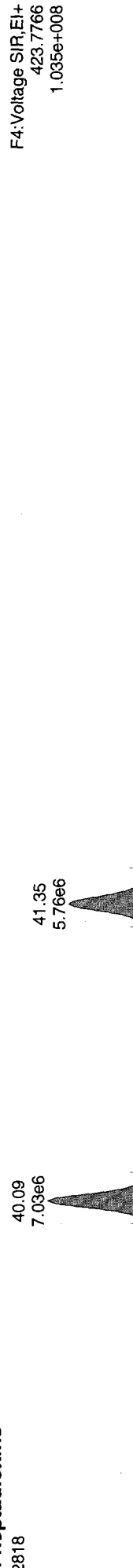
Total-heptadioxins

12112818

100
%
0

40.09
7.03e6

41.35
5.76e6



F4: Voltage SIR, EI+
423.7766
1.035e+008

Total-heptadioxins

12112818

100
%
0

40.09
6.78e6

41.35
5.54e6



F4: Voltage SIR, EI+
425.7737
9.985e+007

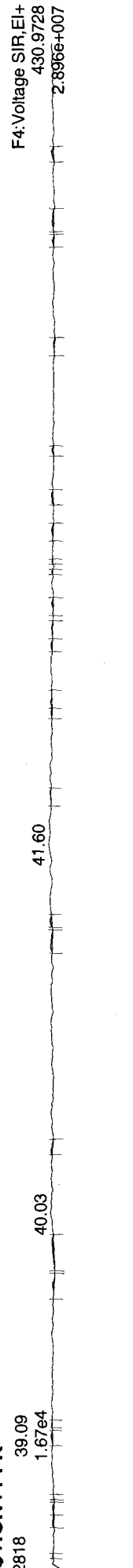
FUNCTION4 PFK

12112818

100
%
0

39.09
1.67e4

41.60

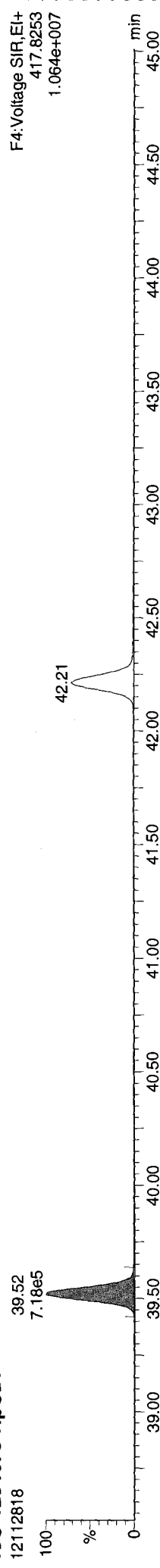


F4: Voltage SIR, EI+
430.9728
2.896e+007

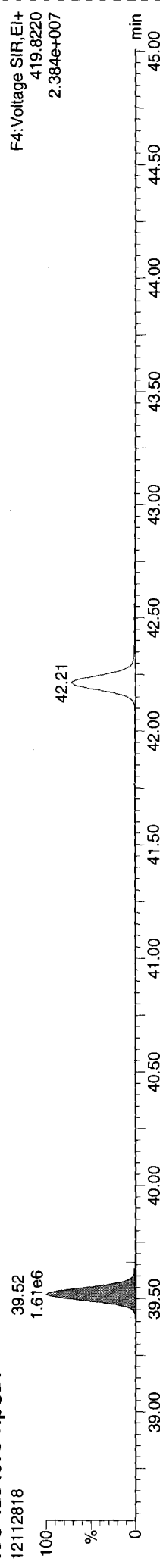
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

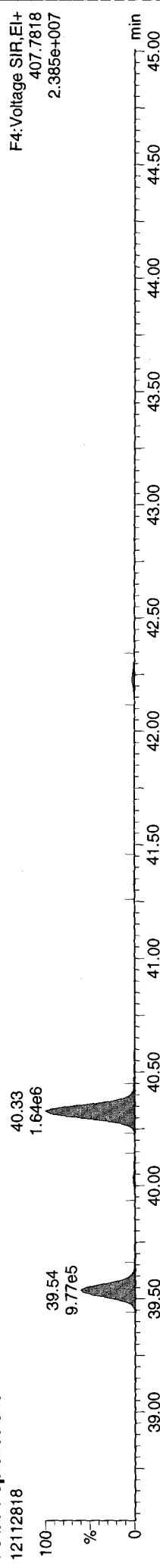
13C-1234678-HpCDF



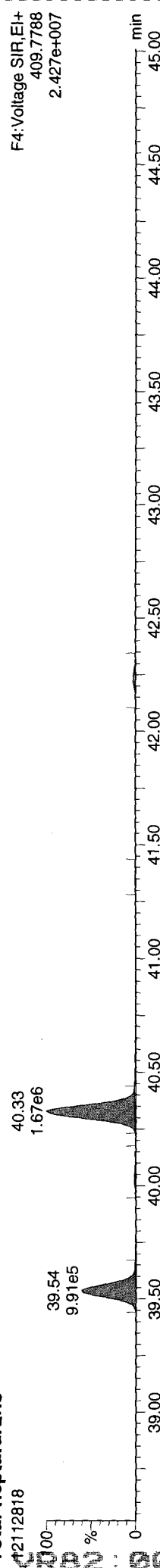
13C-1234678-HpCDF



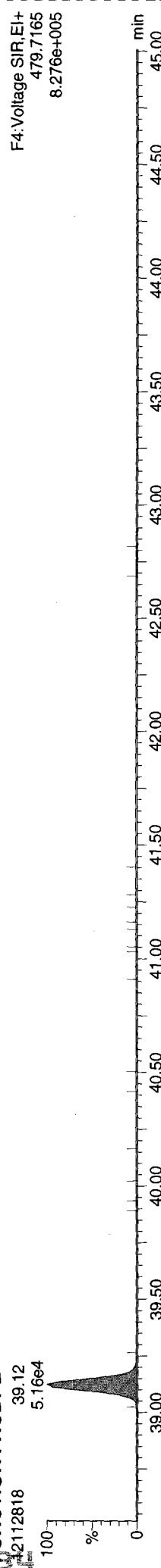
Total-heptafurans



Total-heptafurans



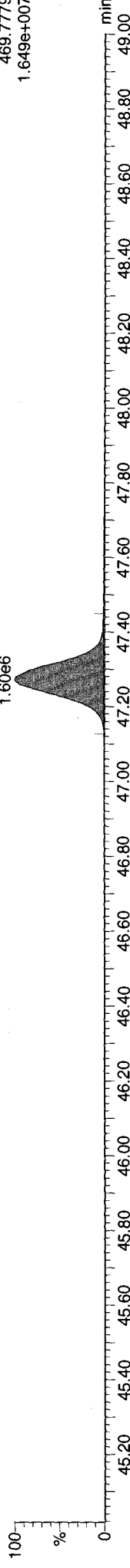
FUNCTION4 NCDPE



Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

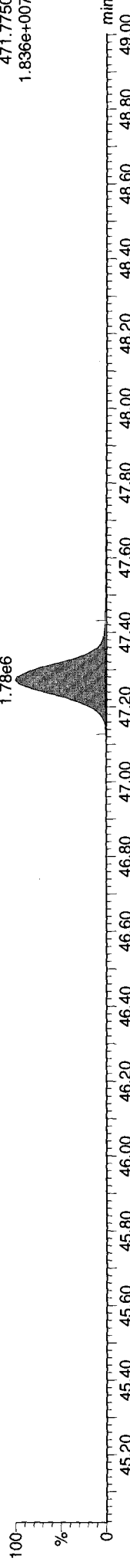
13C-OCDD

12112818



13C-OCDD

12112818



OCDD

12112818



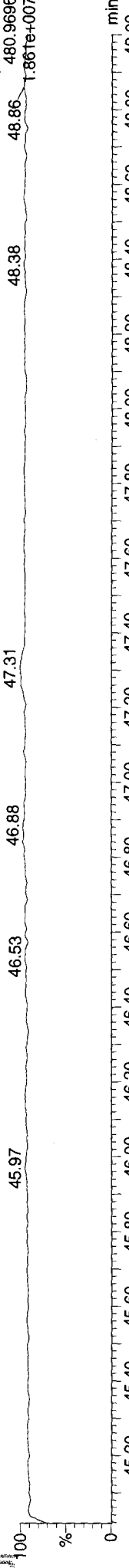
OCDD

12112818



FUNCTION5 PFK

12112818



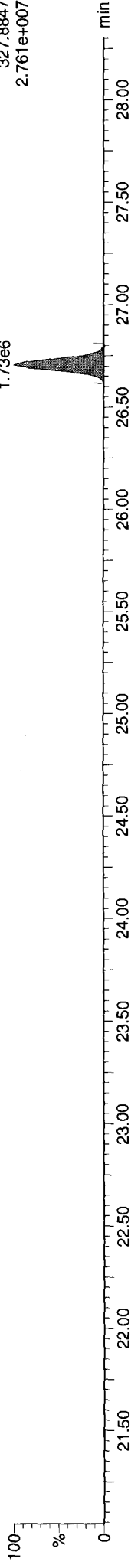
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:37:52 Pacific Standard Time

Name: 12112818, Date: 29-Nov-2012, Time: 00:50:28, ID: VR82A, Conditions: AUTOSPEC01, User: pk

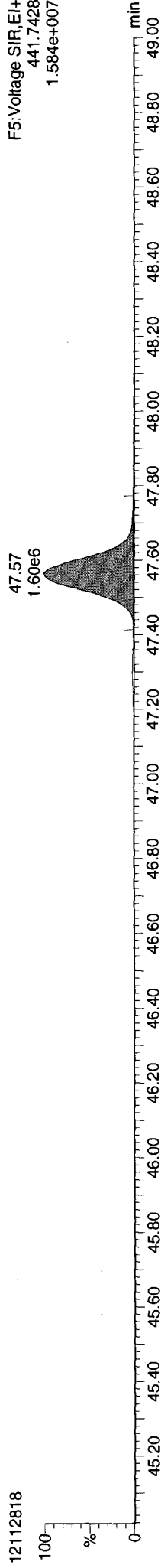
37CL-2378-TCDD

12112818



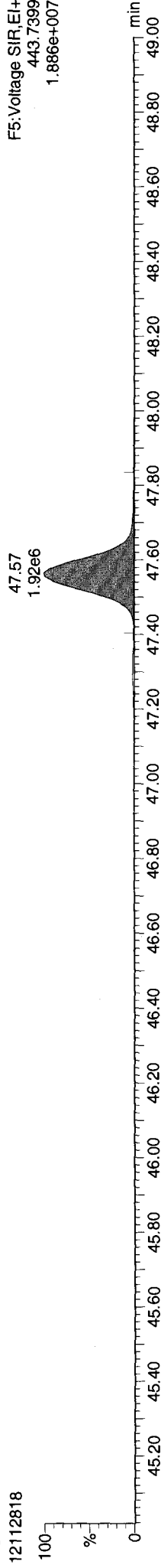
OCDF

12112818



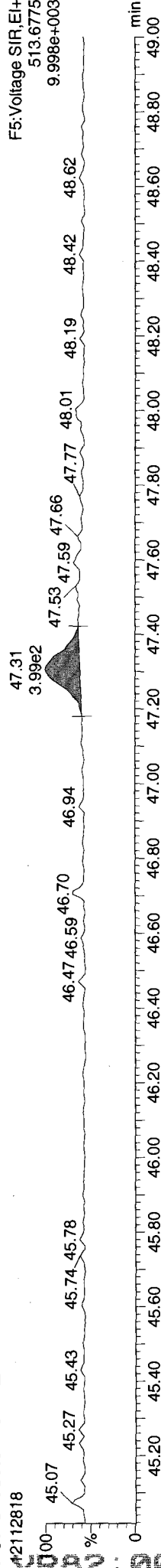
OCDF

12112818



FUNCTION5 DCDPE

12112818



12/10/2012 15:37:52

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurvedB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

	Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Prec R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	ppb
1	2378-TCDF	26.063	1.001	1.37e4	2.01e4	0.877	0.684	0.770	144.7	1486	1311	2.15e5	3.20e5	NO	1.066	1.066
2	12378-PeCDF	30.200	1.000	1.44e4	9.59e3	0.896	1.503	1.550	134.1	1862	1587	2.50e5	1.52e5	NO	0.856	0.856
3	23478-PeCDF	31.549	1.001	1.66e4	1.17e4	0.926	1.418	1.550	145.0	1862	1587	2.70e5	1.97e5	NO	0.932	0.932
4	123478-HxCDF	35.231	1.001	3.59e4	3.07e4	1.068	1.169	1.240	169.6	3155	3179	5.35e5	4.68e5	NO	2.418	2.418
5	234678-HxCDF	36.328	1.000	4.21e4	3.68e4	1.037	1.145	1.240	129.0	3155	3179	4.07e5	3.68e5	NO	3.106	3.106
6	123678-HxCDF	35.374	1.000	2.98e4	2.52e4	1.035	1.180	1.240	147.8	3155	3179	4.66e5	3.97e5	NO	2.013	2.013
7	123789-HxCDF	37.435	1.000	1.12e4	1.08e4	0.987	1.034	1.240	55.4	3155	3179	1.75e5	1.56e5	YES	0.825	0.899
8	1234678-HpCDF	39.528	1.000	5.06e5	5.16e5	1.232	0.980	1.050	2914.7	2672	2952	7.79e6	7.90e6	NO	42.072	42.072
9	1234789-HpCDF	42.225	1.001	2.15e4	2.25e4	1.215	0.954	1.050	111.3	2672	2952	2.98e5	2.72e5	NO	2.315	2.315
10	OCDF	47.539	1.006	9.11e5	1.08e6	1.138	0.843	0.890	5566.7	1664	3165	9.26e6	1.09e7	NO	136.221	136.221
11	2378-TCDD	26.705	1.001	2.68e3	5.70e3	1.049	0.470	0.770	32.0	1332	1427	4.26e4	9.35e4	YES	0.221	0.300
12	12378-PeCDD	31.801	1.000	2.36e4	1.52e4	0.998	1.553	1.550	223.4	1594	1268	3.56e5	2.26e5	NO	1.875	1.875
13	123478-HxCDD	36.470	1.000	3.80e4	3.19e4	0.971	1.190	1.240	178.6	3347	2627	5.98e5	5.14e5	NO	3.489	3.489
14	123678-HxCDD	36.602	1.000	1.55e5	1.22e5	0.918	1.271	1.240	698.6	3347	2627	2.34e6	1.85e6	NO	14.033	14.033
15	123789-HxCDD	37.029	1.012	7.75e4	6.50e4	0.932	1.193	1.240	371.6	3347	2627	1.24e6	1.03e6	NO	7.262	7.262
16	1234678-HpCDD	41.337	1.000	2.84e6	2.72e6	1.017	1.043	1.050	5144.0	7492	7695	3.85e7	3.72e7	NO	305.250	305.250
17	OCDD	47.261	1.000	1.45e7	1.63e7	1.008	0.887	0.890	21500.4	6946	5097	1.47e8	1.66e8	NO	2380.508	2380.508
18	13C-2378-TCDF	26.048	1.007	1.59e6	2.03e6	1.473	0.781	0.770	7493.5	3329	3146	2.49e7	3.18e7	NO	52.079	52.079
19	13C-12378-PeCDF	30.189	1.167	1.91e6	1.21e6	1.148	1.574	1.550	8140.4	3743	3024	3.05e7	1.94e7	NO	57.795	57.795
20	13C-23478-PeCDF	31.527	1.219	2.01e6	1.28e6	1.113	1.574	1.550	8712.0	3743	3024	3.29e7	2.08e7	NO	62.598	62.598
21	13C-123478-HxCDF	35.210	0.951	8.78e5	1.70e6	1.209	0.515	0.510	4262.1	3204	4344	1.37e7	2.67e7	NO	56.519	56.519
22	13C-123678-HxCDF	35.363	0.956	9.07e5	1.73e6	1.269	0.523	0.510	4453.2	3204	4344	1.49e7	2.71e7	NO	55.120	55.120
23	13C-234678-HxCDF	36.317	0.981	8.31e5	1.62e6	1.236	0.514	0.510	4011.1	3204	4344	1.29e7	2.47e7	NO	52.468	52.468
24	13C-123789-HxCDF	37.446	1.012	8.44e5	1.64e6	1.107	0.513	0.510	4312.2	3204	4344	1.38e7	2.65e7	NO	59.510	59.510
25	13C-1234678-HpCDF	39.518	1.068	6.12e5	1.36e6	1.051	0.450	0.440	1783.1	5218	3652	9.30e6	2.02e7	NO	49.670	49.670
26	13C-1234789-HpCDF	42.203	1.140	4.86e5	1.08e6	0.815	0.451	0.440	1214.5	5218	3652	6.34e6	1.40e7	NO	50.790	50.790
27	13C-1234-TCDD	25.869	0.000	2.06e6	2.65e6	1.000	0.778	0.770	11584.8	2882	1910	3.34e7	4.30e7	NO	100.000	100.000
28	13C-2378-TCDD	26.676	1.031	1.17e6	1.49e6	0.946	0.781	0.770	6238.7	2882	1910	1.80e7	2.31e7	NO	59.664	59.664
29	13C-12378-PeCDD	31.790	1.229	1.27e6	8.05e5	0.721	1.572	1.550	11819.3	1724	1332	2.04e7	1.29e7	NO	60.918	60.918
30	13C-123478-HxCDD	36.459	0.985	1.15e6	9.12e5	0.991	1.260	1.240	6328.1	2776	2442	1.76e7	1.38e7	NO	55.100	55.100
31	13C-123678-HxCDD	36.591	0.989	1.19e6	9.60e5	1.025	1.235	1.240	6475.9	2776	2442	1.80e7	1.46e7	NO	55.455	55.455
32	13C-1234678-HpCDD	41.326	1.117	9.18e5	8.72e5	0.866	1.052	1.050	4648.1	2663	2855	1.24e7	1.16e7	NO	54.710	54.710
33	13C-OCDD	47.243	1.277	1.21e6	1.36e6	0.769	0.888	0.890	5799.1	2116	1499	1.23e7	1.39e7	NO	88.484	88.484

M. 12/10/12

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

Name	RT	FRT	Ion1Area	Ion2Area	FRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC?	EMPC	pg
34	13C-123789-HxCDD	37.007	0.000	2.09e6	1.68e6	1.000	1.240	11739.9	2776	2442	3.26e7	2.63e7	NO		100.000
35	Total-tetrafurans		1.98e5	0.877					1486		2.98e6			16.098	14.629
36	Total-penta1		3.03e5						1078		4.72e6			17.066	17.066
37	Total-pentafurans		1.88e5	0.911					1862		2.92e6			12.688	10.768
38	Total-hexafurans		9.49e5	1.032					3155		1.45e7			68.096	67.055
39	Total-heptafurans		1.52e6	1.223					2672		2.25e7			136.727	136.596
40	Total-Furans		4.06e6	1.041					1486		5.69e7			386.897	382.335
41	Total-tetradiioxins		5.27e4	1.049					1332		8.13e5			4.889	4.314
42	Total-pentadiioxins		1.67e5	0.998					1594		2.22e6			13.246	13.246
43	Total-hexadiioxins		1.13e6	0.940					3347		1.56e7			102.974	102.974
44	Total-heptadiioxins		7.51e6	1.017					7492		1.08e8			810.766	810.766
45	Total-Dioxins		8.53e7	0.985					1332		1.19e9			386.897	382.335
46	Total-TEQ		8.94e7						1332		1.25e9			773.793	764.670
47	37CL-2378-TCDD	26.705	1.032	1.81e6	1.044			12928.1	2196		2.84e7				36.665
48	FUNCTION1 PFK		4.78e6						746977		4.19e7				
49	FUNCTION2 PFK		6.12e5						188170		1.36e7				0.000
50	FUNCTION3 PFK		7.26e6						406762		1.52e7				0.000
51	FUNCTION4 PFK		6.68e5						336898		1.71e7				
52	FUNCTION5 PFK		7.70e5						230607		2.19e7				
53	FUNCTION1 HXCDPE		1.68e3						786		3.17e4				0.000
54	FUNCTION1 HPCDPE		7.51e2						951		1.43e4				0.000
55	FUNCTION2 HPCDPE		7.66e2						1084		1.91e4				0.000
56	FUNCTION3 OCDPE		4.50e2						685		1.24e4				0.000
57	FUNCTION4 NCDPE		3.94e4						857		5.93e5				0.000
58	FUNCTION5 DCDPE		0.00e0						268		0.00e0				0.000

Handwritten notes: 21.751, 21.834

12112819 : 09000000

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.73	27427.103	0.877	0.865	0.865	0.73	0.77	NO	93.4
2	35 Total-tetrafurans	303.9016	24.55	0.000	0.877	0.000	0.030	0.61	0.77	YES	4.9
3	35 Total-tetrafurans	303.9016	24.32	23245.599	0.877	0.733	0.733	0.77	0.77	NO	105.6
4	35 Total-tetrafurans	303.9016	24.17	22208.331	0.877	0.700	0.700	0.75	0.77	NO	102.6
5	35 Total-tetrafurans	303.9016	24.06	31886.106	0.877	1.005	1.005	0.70	0.77	NO	137.3
6	35 Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.210	0.64	0.77	YES	38.8
7	35 Total-tetrafurans	303.9016	23.82	32207.921	0.877	1.015	1.015	0.78	0.77	NO	143.2
8	35 Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.468	0.65	0.77	YES	71.2
9	35 Total-tetrafurans	303.9016	23.60	17961.363	0.877	0.566	0.566	0.71	0.77	NO	55.3
10	35 Total-tetrafurans	303.9016	23.52	9336.107	0.877	0.294	0.294	0.76	0.77	NO	52.5
11	35 Total-tetrafurans	303.9016	23.40	85916.133	0.877	2.709	2.709	0.71	0.77	NO	369.5
12	35 Total-tetrafurans	303.9016	22.84	19715.442	0.877	0.622	0.622	0.77	0.77	NO	91.0
13	35 Total-tetrafurans	303.9016	22.57	12552.630	0.877	0.396	0.396	0.72	0.77	NO	55.4
14	35 Total-tetrafurans	303.9016	27.50	12309.368	0.877	0.388	0.388	0.82	0.77	NO	42.7
15	35 Total-tetrafurans	303.9016	26.57	0.000	0.877	0.000	0.016	1.19	0.77	YES	4.8
16	35 Total-tetrafurans	303.9016	26.47	0.000	0.877	0.000	0.014	0.64	0.77	YES	2.6
17	35 Total-tetrafurans	303.9016	26.29	39350.364	0.877	1.241	1.241	0.69	0.77	NO	156.7
18	35 Total-tetrafurans	303.9016	26.20	14196.639	0.877	0.448	0.448	0.73	0.77	NO	66.0
19	1 2378-TCDF	303.9016	26.06	33814.471	0.877	1.066	1.066	0.68	0.77	NO	144.7
20	35 Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.178	2.16	0.77	YES	38.8
21	35 Total-tetrafurans	303.9016	25.67	1399.073	0.877	0.044	0.044	0.88	0.77	NO	8.5
22	35 Total-tetrafurans	303.9016	25.56	7227.744	0.877	0.228	0.228	0.78	0.77	NO	29.7
23	35 Total-tetrafurans	303.9016	25.38	0.000	0.877	0.000	0.320	0.92	0.77	YES	62.1
24	35 Total-tetrafurans	303.9016	25.15	20994.053	0.877	0.662	0.662	0.73	0.77	NO	97.8
25	35 Total-tetrafurans	303.9016	24.97	38472.680	0.877	1.213	1.213	0.67	0.77	NO	160.5
26	35 Total-tetrafurans	303.9016	24.82	13790.969	0.877	0.435	0.435	0.68	0.77	NO	60.5
27	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.234	0.75	0.77	NO	35.6

PP

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.48	501803.376		17.066	17.066	1.53	1.55	NO	4377.8

VR82 : 00939

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	30.51	6715.995	0.911	0.230	0.230	1.38	1.55	NO	33.6
2	37 Total-pentafurans	339.8597	30.41	20655.589	0.911	0.707	0.707	1.51	1.55	NO	103.4
3	2 12378-PeCDF	339.8597	30.20	23998.217	0.896	0.856	0.856	1.50	1.55	NO	134.1
4	37 Total-pentafurans	339.8597	29.93	6048.465	0.911	0.207	0.207	1.55	1.55	NO	46.6
5	37 Total-pentafurans	339.8597	29.85	50322.479	0.911	1.722	1.722	1.47	1.55	NO	230.5
6	37 Total-pentafurans	339.8597	29.74	8474.429	0.911	0.290	0.290	1.34	1.55	NO	48.0
7	37 Total-pentafurans	339.8597	29.63	3413.144	0.911	0.117	0.117	1.42	1.55	NO	21.5
8	37 Total-pentafurans	339.8597	29.60	0.000	0.911	0.000	0.081	1.99	1.55	YES	19.5
9	37 Total-pentafurans	339.8597	29.42	0.000	0.911	0.000	0.099	1.84	1.55	YES	19.5
10	37 Total-pentafurans	339.8597	29.25	0.000	0.911	0.000	0.031	3.70	1.55	YES	10.8
11	37 Total-pentafurans	339.8597	29.14	95859.938	0.911	3.281	3.281	1.57	1.55	NO	472.8
12	37 Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	1.541	1.19	1.55	YES	286.1
13	37 Total-pentafurans	339.8597	28.94	30470.298	0.911	1.043	1.043	1.46	1.55	NO	118.2
14	37 Total-pentafurans	339.8597	28.84	2367.451	0.911	0.081	0.081	1.66	1.55	NO	20.8
15	37 Total-pentafurans	339.8597	32.57	0.000	0.911	0.000	0.116	1.23	1.55	YES	17.7
16	3 23478-PeCDF	339.8597	31.55	28368.318	0.926	0.932	0.932	1.42	1.55	NO	145.0
17	37 Total-pentafurans	339.8597	31.40	25293.779	0.911	0.866	0.866	1.42	1.55	NO	125.6
18	37 Total-pentafurans	339.8597	31.27	12714.273	0.911	0.435	0.435	1.36	1.55	NO	66.5
19	37 Total-pentafurans	339.8597	31.04	0.000	0.911	0.000	0.023	3.05	1.55	YES	6.4
20	37 Total-pentafurans	339.8597	30.67	0.000	0.911	0.000	0.030	1.93	1.55	YES	5.1

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	37.43	22054.149	0.987	0.000	0.825	1.03	1.24	YES	55.4
2	5 234678-HxCDF	373.8208	36.33	78849.324	1.037	3.106	3.106	1.14	1.24	NO	129.0
3	38 Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.153	0.95	1.24	YES	10.9
4	6 123678-HxCDF	373.8208	35.37	54995.621	1.035	2.013	2.013	1.18	1.24	NO	147.8
5	4 123478-HxCDF	373.8208	35.23	66669.090	1.068	2.418	2.418	1.17	1.24	NO	169.6
6	38 Total-hexafurans	373.8208	35.07	14771.777	1.032	0.564	0.564	1.29	1.24	NO	46.0
7	38 Total-hexafurans	373.8208	34.57	672825.344	1.032	25.683	25.683	1.17	1.24	NO	1815.8
8	38 Total-hexafurans	373.8208	34.26	12204.923	1.032	0.466	0.466	1.09	1.24	NO	30.2
9	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.063	1.46	1.24	YES	5.8
10	38 Total-hexafurans	373.8208	33.72	626628.719	1.032	23.920	23.920	1.18	1.24	NO	1625.3
11	38 Total-hexafurans	373.8208	33.50	232765.235	1.032	8.885	8.885	1.16	1.24	NO	631.8

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	42.22	43960.623	1.215	2.315	2.315	0.95	1.05	NO	111.3
2	39 Total-heptafurans	407.7818	41.35	0.000	1.223	0.000	0.131	0.77	1.05	YES	9.0
3	39 Total-heptafurans	407.7818	40.32	1969078.063	1.223	91.062	91.062	0.98	1.05	NO	5337.8
4	39 Total-heptafurans	407.7818	40.02	24824.839	1.223	1.148	1.148	0.95	1.05	NO	57.1
5	8 1234678-HpCDF	407.7818	39.53	1022020.344	1.232	42.072	42.072	0.98	1.05	NO	2914.7

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

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Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	35 Total-tetrafurans	303.9016	24.73	27427.103	0.877	0.865	0.865	0.73	0.77	NO	93.4
2	35 Total-tetrafurans	303.9016	24.55	0.000	0.877	0.000	0.030	0.61	0.77	YES	4.9
3	35 Total-tetrafurans	303.9016	24.32	23245.599	0.877	0.733	0.733	0.77	0.77	NO	105.6
4	35 Total-tetrafurans	303.9016	24.17	22208.331	0.877	0.700	0.700	0.75	0.77	NO	102.6
5	35 Total-tetrafurans	303.9016	24.06	31886.106	0.877	1.005	1.005	0.70	0.77	NO	137.3
6	35 Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.210	0.64	0.77	YES	38.8
7	35 Total-tetrafurans	303.9016	23.82	32207.921	0.877	1.015	1.015	0.78	0.77	NO	143.2
8	35 Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.468	0.65	0.77	YES	71.2
9	35 Total-tetrafurans	303.9016	23.60	17961.363	0.877	0.566	0.566	0.71	0.77	NO	55.3
10	35 Total-tetrafurans	303.9016	23.52	9336.107	0.877	0.294	0.294	0.76	0.77	NO	52.5
11	35 Total-tetrafurans	303.9016	23.40	85916.133	0.877	2.709	2.709	0.71	0.77	NO	369.5
12	35 Total-tetrafurans	303.9016	22.84	19715.442	0.877	0.622	0.622	0.77	0.77	NO	91.0
13	35 Total-tetrafurans	303.9016	22.57	12552.630	0.877	0.396	0.396	0.72	0.77	NO	55.4
14	35 Total-tetrafurans	303.9016	27.50	12309.368	0.877	0.388	0.388	0.82	0.77	NO	42.7
15	35 Total-tetrafurans	303.9016	26.57	0.000	0.877	0.000	0.016	1.19	0.77	YES	4.8
16	35 Total-tetrafurans	303.9016	26.47	0.000	0.877	0.000	0.014	0.64	0.77	YES	2.6
17	35 Total-tetrafurans	303.9016	26.29	39350.364	0.877	1.241	1.241	0.69	0.77	NO	156.7
18	35 Total-tetrafurans	303.9016	26.20	14196.639	0.877	0.448	0.448	0.73	0.77	NO	66.0
19	1 2378-TCDF	303.9016	26.06	33814.471	0.877	1.066	1.066	0.68	0.77	NO	144.7
20	35 Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.178	2.16	0.77	YES	38.8
21	35 Total-tetrafurans	303.9016	25.67	1399.073	0.877	0.044	0.044	0.88	0.77	NO	8.5
22	35 Total-tetrafurans	303.9016	25.56	7227.744	0.877	0.228	0.228	0.78	0.77	NO	29.7
23	35 Total-tetrafurans	303.9016	25.38	0.000	0.877	0.000	0.320	0.92	0.77	YES	62.1
24	35 Total-tetrafurans	303.9016	25.15	20994.053	0.877	0.662	0.662	0.73	0.77	NO	97.8
25	35 Total-tetrafurans	303.9016	24.97	38472.680	0.877	1.213	1.213	0.67	0.77	NO	160.5
26	35 Total-tetrafurans	303.9016	24.82	13790.969	0.877	0.435	0.435	0.68	0.77	NO	60.5
27	37 Total-pentafurans	339.8597	30.51	6715.995	0.911	0.230	0.230	1.38	1.55	NO	33.6
28	37 Total-pentafurans	339.8597	30.41	20655.589	0.911	0.707	0.707	1.51	1.55	NO	103.4
29	2 12378-PeCDF	339.8597	30.20	23998.217	0.896	0.856	0.856	1.50	1.55	NO	134.1
30	37 Total-pentafurans	339.8597	29.93	6048.465	0.911	0.207	0.207	1.55	1.55	NO	46.6
31	37 Total-pentafurans	339.8597	29.85	50322.479	0.911	1.722	1.722	1.47	1.55	NO	230.5
32	37 Total-pentafurans	339.8597	29.74	8474.429	0.911	0.290	0.290	1.34	1.55	NO	48.0
33	37 Total-pentafurans	339.8597	29.63	3413.144	0.911	0.117	0.117	1.42	1.55	NO	21.5
34	37 Total-pentafurans	339.8597	29.60	0.000	0.911	0.000	0.081	1.99	1.55	YES	19.5
35	37 Total-pentafurans	339.8597	29.42	0.000	0.911	0.000	0.099	1.84	1.55	YES	19.5
36	37 Total-pentafurans	339.8597	29.25	0.000	0.911	0.000	0.031	3.70	1.55	YES	10.8
37	37 Total-pentafurans	339.8597	29.14	95859.938	0.911	3.281	3.281	1.57	1.55	NO	472.8
38	37 Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	1.541	1.19	1.55	YES	286.1
39	37 Total-pentafurans	339.8597	28.94	30470.298	0.911	1.043	1.043	1.46	1.55	NO	118.2
40	37 Total-pentafurans	339.8597	28.84	2367.451	0.911	0.081	0.081	1.66	1.55	NO	20.8
41	37 Total-pentafurans	339.8597	32.57	0.000	0.911	0.000	0.116	1.23	1.55	YES	17.7
42	3 23478-PeCDF	339.8597	31.55	28368.318	0.926	0.932	0.932	1.42	1.55	NO	145.0
43	37 Total-pentafurans	339.8597	31.40	25293.779	0.911	0.866	0.866	1.42	1.55	NO	125.6
44	37 Total-pentafurans	339.8597	31.27	12714.273	0.911	0.435	0.435	1.36	1.55	NO	66.5
45	37 Total-pentafurans	339.8597	31.04	0.000	0.911	0.000	0.023	3.05	1.55	YES	6.4
46	37 Total-pentafurans	339.8597	30.67	0.000	0.911	0.000	0.030	1.93	1.55	YES	5.1
47	7 123789-HxCDF	373.8208	37.43	22054.149	0.987	0.000	0.825	1.03	1.24	YES	55.4
48	5 234678-HxCDF	373.8208	36.33	78849.324	1.037	3.106	3.106	1.14	1.24	NO	129.0
49	38 Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.153	0.95	1.24	YES	10.9

VR82: 00941

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	6 123678-HxCDF	373.8208	35.37	54995.621	1.035	2.013	2.013	1.18	1.24	NO	147.8
51	4 123478-HxCDF	373.8208	35.23	66669.090	1.068	2.418	2.418	1.17	1.24	NO	169.6
52	38 Total-hexafurans	373.8208	35.07	14771.777	1.032	0.564	0.564	1.29	1.24	NO	46.0
53	38 Total-hexafurans	373.8208	34.57	672825.344	1.032	25.683	25.683	1.17	1.24	NO	1815.8
54	38 Total-hexafurans	373.8208	34.26	12204.923	1.032	0.466	0.466	1.09	1.24	NO	30.2
55	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.063	1.46	1.24	YES	5.8
56	38 Total-hexafurans	373.8208	33.72	626628.719	1.032	23.920	23.920	1.18	1.24	NO	1625.3
57	38 Total-hexafurans	373.8208	33.50	232765.235	1.032	8.885	8.885	1.16	1.24	NO	631.8
58	9 1234789-HpCDF	407.7818	42.22	43960.623	1.215	2.315	2.315	0.95	1.05	NO	111.3
59	39 Total-heptafurans	407.7818	41.35	0.000	1.223	0.000	0.131	0.77	1.05	YES	9.0
60	39 Total-heptafurans	407.7818	40.32	1969078.063	1.223	91.062	91.062	0.98	1.05	NO	5337.8
61	39 Total-heptafurans	407.7818	40.02	24824.839	1.223	1.148	1.148	0.95	1.05	NO	57.1
62	8 1234678-HpCDF	407.7818	39.53	1022020.344	1.232	42.072	42.072	0.98	1.05	NO	2914.7
63	10 OCDF	441.7428	47.54	1991618.375	1.138	136.221	136....	0.84	0.89	NO	5566.7
64	36 Total-penta1	339.8597	27.48	501803.376		17.066	17.066	1.53	1.55	NO	4377.8
65	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.234	0.75	0.77	NO	35.6

TD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	26.84	5413.998	1.049	0.194	0.194	0.74	0.77	NO	25.4
2	11 2378-TCDD	319.8965	26.71	8386.382	1.049	0.000	0.221	0.47	0.77	YES	32.0
3	41 Total-tetradiioxins	319.8965	26.33	8708.884	1.049	0.312	0.312	0.82	0.77	NO	42.4
4	41 Total-tetradiioxins	319.8965	26.03	0.000	1.049	0.000	0.032	1.39	0.77	YES	8.0
5	41 Total-tetradiioxins	319.8965	25.88	5598.082	1.049	0.200	0.200	0.70	0.77	NO	22.1
6	41 Total-tetradiioxins	319.8965	25.67	4068.352	1.049	0.146	0.146	0.70	0.77	NO	22.1
7	41 Total-tetradiioxins	319.8965	25.57	0.000	1.049	0.000	0.082	0.98	0.77	YES	15.7
8	41 Total-tetradiioxins	319.8965	25.32	13674.459	1.049	0.490	0.490	0.80	0.77	NO	71.1
9	41 Total-tetradiioxins	319.8965	25.05	0.000	1.049	0.000	0.201	0.53	0.77	YES	26.9
10	41 Total-tetradiioxins	319.8965	24.84	7831.132	1.049	0.280	0.280	0.69	0.77	NO	40.2
11	41 Total-tetradiioxins	319.8965	24.32	7993.208	1.049	0.286	0.286	0.86	0.77	NO	43.4
12	41 Total-tetradiioxins	319.8965	24.11	29703.565	1.049	1.063	1.063	0.82	0.77	NO	154.5
13	41 Total-tetradiioxins	319.8965	23.84	37510.948	1.049	1.343	1.343	0.76	0.77	NO	189.1
14	41 Total-tetradiioxins	319.8965	27.29	0.000	1.049	0.000	0.038	0.48	0.77	YES	5.3

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadiioxins	355.8546	31.13	7830.901	0.998	0.379	0.379	1.39	1.55	NO	36.9
2	42 Total-pentadiioxins	355.8546	30.74	26270.598	0.998	1.271	1.271	1.61	1.55	NO	107.0
3	42 Total-pentadiioxins	355.8546	30.56	25012.697	0.998	1.210	1.210	1.71	1.55	NO	159.7
4	42 Total-pentadiioxins	355.8546	30.43	32742.569	0.998	1.584	1.584	1.51	1.55	NO	188.3
5	42 Total-pentadiioxins	355.8546	30.21	35863.001	0.998	1.735	1.735	1.54	1.55	NO	215.3
6	42 Total-pentadiioxins	355.8546	29.60	20517.800	0.998	0.993	0.993	1.45	1.55	NO	125.4
7	42 Total-pentadiioxins	355.8546	29.13	78674.447	0.998	3.806	3.806	1.55	1.55	NO	285.8
8	42 Total-pentadiioxins	355.8546	32.21	8140.141	0.998	0.394	0.394	1.78	1.55	NO	48.9
9	12 12378-PeCDD	355.8546	31.80	38768.896	0.998	1.875	1.875	1.55	1.55	NO	223.4

Quantify Totals Report MassLynx 4.1 SCN 714

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HD

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rafi...	1° Rafi...	1° R...	S/N
1	15 123789-HxCDD	389.8157	37.03	142472.153	0.932	7.262	7.262	1.19	1.24	NO	371.6
2	43 Total-hexadioxins	389.8157	36.78	37958.900	0.940	1.918	1.918	1.20	1.24	NO	101.8
3	14 123678-HxCDD	389.8157	36.60	276514.742	0.918	14.033	14.033	1.27	1.24	NO	698.6
4	13 123478-HxCDD	389.8157	36.47	69848.701	0.971	3.489	3.489	1.19	1.24	NO	178.6
5	43 Total-hexadioxins	389.8157	35.62	83264.254	0.940	4.208	4.208	1.32	1.24	NO	218.6
6	43 Total-hexadioxins	389.8157	35.51	707833.562	0.940	35.771	35.771	1.25	1.24	NO	1227.4
7	43 Total-hexadioxins	389.8157	35.11	125460.449	0.940	6.340	6.340	1.28	1.24	NO	321.8
8	43 Total-hexadioxins	389.8157	34.30	592683.594	0.940	29.952	29.952	1.24	1.24	NO	1539.3

HPD

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rafi...	1° Rafi...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.34	5555696.750	1.017	305.250	305....	1.04	1.05	NO	5144.0
2	44 Total-heptadioxins	423.7766	40.08	9200650.000	1.017	505.516	505....	1.03	1.05	NO	9286.8

VR82 : 00943

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1 st Rati...	1 st Rati...	1 st R...	S/N
35	Total-tetrafurans	303.9016	24.73	27427.103	0.877		0.865	0.865	0.73	0.77	NO	93.4
35	Total-tetrafurans	303.9016	24.55	0.000	0.877		0.000	0.030	0.61	0.77	YES	4.9
35	Total-tetrafurans	303.9016	24.32	23245.599	0.877		0.733	0.733	0.77	0.77	NO	105.6
35	Total-tetrafurans	303.9016	24.17	22208.331	0.877		0.700	0.700	0.75	0.77	NO	102.6
35	Total-tetrafurans	303.9016	24.06	31886.106	0.877		1.005	1.005	0.70	0.77	NO	137.3
35	Total-tetrafurans	303.9016	23.90	0.000	0.877		0.000	0.210	0.64	0.77	YES	38.8
35	Total-tetrafurans	303.9016	23.82	32207.921	0.877		1.015	1.015	0.78	0.77	NO	143.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877		0.000	0.468	0.65	0.77	YES	71.2
35	Total-tetrafurans	303.9016	23.60	17961.363	0.877		0.566	0.566	0.71	0.77	NO	55.3
35	Total-tetrafurans	303.9016	23.52	9336.107	0.877		0.294	0.294	0.76	0.77	NO	52.5
35	Total-tetrafurans	303.9016	23.40	85916.133	0.877		2.709	2.709	0.71	0.77	NO	369.5
35	Total-tetrafurans	303.9016	22.84	19715.442	0.877		0.622	0.622	0.77	0.77	NO	91.0
35	Total-tetrafurans	303.9016	22.57	12552.630	0.877		0.396	0.396	0.72	0.77	NO	55.4
35	Total-tetrafurans	303.9016	27.50	12309.368	0.877		0.388	0.388	0.82	0.77	NO	42.7
35	Total-tetrafurans	303.9016	26.57	0.000	0.877		0.000	0.016	1.19	0.77	YES	4.8
35	Total-tetrafurans	303.9016	26.47	0.000	0.877		0.000	0.014	0.64	0.77	YES	2.6
35	Total-tetrafurans	303.9016	26.29	39350.364	0.877		1.241	1.241	0.69	0.77	NO	156.7
35	Total-tetrafurans	303.9016	26.20	14196.639	0.877		0.448	0.448	0.73	0.77	NO	66.0
1	2378-TCDF	303.9016	26.06	33814.471	0.877		1.066	1.066	0.68	0.77	NO	144.7
35	Total-tetrafurans	303.9016	25.87	0.000	0.877		0.000	0.178	2.16	0.77	YES	38.8
35	Total-tetrafurans	303.9016	25.67	1399.073	0.877		0.044	0.044	0.88	0.77	NO	8.5
35	Total-tetrafurans	303.9016	25.56	7227.744	0.877		0.228	0.228	0.78	0.77	NO	29.7
35	Total-tetrafurans	303.9016	25.38	0.000	0.877		0.000	0.320	0.92	0.77	YES	62.1
35	Total-tetrafurans	303.9016	25.15	20994.053	0.877		0.662	0.662	0.73	0.77	NO	97.8
35	Total-tetrafurans	303.9016	24.97	38472.680	0.877		1.213	1.213	0.67	0.77	NO	160.5
35	Total-tetrafurans	303.9016	24.82	13790.969	0.877		0.435	0.435	0.68	0.77	NO	60.5
37	Total-pentafurans	339.8597	30.51	6715.995	0.911		0.230	0.230	1.38	1.55	NO	33.6
37	Total-pentafurans	339.8597	30.41	20655.589	0.911		0.707	0.707	1.51	1.55	NO	103.4
2	12378-PeCDF	339.8597	30.20	23998.217	0.896		0.856	0.856	1.50	1.55	NO	134.1
37	Total-pentafurans	339.8597	29.93	6048.465	0.911		0.207	0.207	1.55	1.55	NO	46.6
37	Total-pentafurans	339.8597	29.85	50322.479	0.911		1.722	1.722	1.47	1.55	NO	230.5
37	Total-pentafurans	339.8597	29.74	8474.429	0.911		0.290	0.290	1.34	1.55	NO	48.0
37	Total-pentafurans	339.8597	29.63	3413.144	0.911		0.117	0.117	1.42	1.55	NO	21.5
37	Total-pentafurans	339.8597	29.60	0.000	0.911		0.000	0.081	1.99	1.55	YES	19.5
37	Total-pentafurans	339.8597	29.42	0.000	0.911		0.000	0.099	1.84	1.55	YES	19.5
37	Total-pentafurans	339.8597	29.25	0.000	0.911		0.000	0.031	3.70	1.55	YES	10.8
37	Total-pentafurans	339.8597	29.14	95859.938	0.911		3.281	3.281	1.57	1.55	NO	472.8
37	Total-pentafurans	339.8597	29.06	0.000	0.911		0.000	1.541	1.19	1.55	YES	286.1
37	Total-pentafurans	339.8597	28.94	30470.298	0.911		1.043	1.043	1.46	1.55	NO	118.2
37	Total-pentafurans	339.8597	28.84	2367.451	0.911		0.081	0.081	1.66	1.55	NO	20.8
37	Total-pentafurans	339.8597	32.57	0.000	0.911		0.000	0.116	1.23	1.55	YES	17.7
3	23478-PeCDF	339.8597	31.55	28368.318	0.926		0.932	0.932	1.42	1.55	NO	145.0
37	Total-pentafurans	339.8597	31.40	25293.779	0.911		0.866	0.866	1.42	1.55	NO	125.6
37	Total-pentafurans	339.8597	31.27	12714.273	0.911		0.435	0.435	1.36	1.55	NO	66.5
37	Total-pentafurans	339.8597	31.04	0.000	0.911		0.000	0.023	3.05	1.55	YES	6.4
37	Total-pentafurans	339.8597	30.67	0.000	0.911		0.000	0.030	1.93	1.55	YES	5.1
7	123789-HxCDF	373.8208	37.43	22054.149	0.987		0.899	0.825	1.03	1.24	YES	55.4
5	234678-HxCDF	373.8208	36.33	78849.324	1.037		3.106	3.106	1.14	1.24	NO	129.0
38	Total-hexafurans	373.8208	35.75	0.000	1.032		0.000	0.153	0.95	1.24	YES	10.9

VR82: 00944

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	SN
50	6 123678-HxCDF	373.8208	35.37	54995.621	1.035	2.013	2.013	1.18	1.24	NO	147.8
51	4 123478-HxCDF	373.8208	35.23	66669.090	1.068	2.418	2.418	1.17	1.24	NO	169.6
52	38 Total-hexafurans	373.8208	35.07	14771.777	1.032	0.564	0.564	1.29	1.24	NO	46.0
53	38 Total-hexafurans	373.8208	34.57	672825.344	1.032	25.683	25.683	1.17	1.24	NO	1815.8
54	38 Total-hexafurans	373.8208	34.26	12204.923	1.032	0.466	0.466	1.09	1.24	NO	30.2
55	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.063	1.46	1.24	YES	5.8
56	38 Total-hexafurans	373.8208	33.72	626628.719	1.032	23.920	23.920	1.18	1.24	NO	1625.3
57	38 Total-hexafurans	373.8208	33.50	232765.235	1.032	8.885	8.885	1.16	1.24	NO	631.8
58	9 1234789-HpCDF	407.7818	42.22	43960.623	1.215	2.315	2.315	0.95	1.05	NO	111.3
59	39 Total-heptafurans	407.7818	41.35	0.000	1.223	0.000	0.131	0.77	1.05	YES	9.0
60	39 Total-heptafurans	407.7818	40.32	1969078.063	1.223	91.062	91.062	0.98	1.05	NO	5337.8
61	39 Total-heptafurans	407.7818	40.02	24824.839	1.223	1.148	1.148	0.95	1.05	NO	57.1
62	8 1234678-HpCDF	407.7818	39.53	1022020.344	1.232	42.072	42.072	0.98	1.05	NO	2914.7
63	10 OCDF	441.7428	47.54	1991618.375	1.138	136.221	136....	0.84	0.89	NO	5566.7
64	36 Total-penta1	339.8597	27.48	501803.376		17.066	17.066	1.53	1.55	NO	4377.8
65	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.234	0.75	0.77	NO	35.6

VR82 : 00945

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPG	1 st Rat	1 st Rat	1 st R	S/N
35	Total-tetrafurans	303.9016	24.73	27427.103	0.877	0.865	0.865	0.73	0.77	NO	93.4
35	Total-tetrafurans	303.9016	24.55	0.000	0.877	0.000	0.030	0.61	0.77	YES	4.9
35	Total-tetrafurans	303.9016	24.32	23245.599	0.877	0.733	0.733	0.77	0.77	NO	105.6
35	Total-tetrafurans	303.9016	24.17	22208.331	0.877	0.700	0.700	0.75	0.77	NO	102.6
35	Total-tetrafurans	303.9016	24.06	31886.106	0.877	1.005	1.005	0.70	0.77	NO	137.3
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.210	0.64	0.77	YES	38.8
35	Total-tetrafurans	303.9016	23.82	32207.921	0.877	1.015	1.015	0.78	0.77	NO	143.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.468	0.65	0.77	YES	71.2
35	Total-tetrafurans	303.9016	23.60	17961.363	0.877	0.566	0.566	0.71	0.77	NO	55.3
35	Total-tetrafurans	303.9016	23.52	9336.107	0.877	0.294	0.294	0.76	0.77	NO	52.5
35	Total-tetrafurans	303.9016	23.40	85916.133	0.877	2.709	2.709	0.71	0.77	NO	369.5
35	Total-tetrafurans	303.9016	22.84	19715.442	0.877	0.622	0.622	0.77	0.77	NO	91.0
35	Total-tetrafurans	303.9016	22.57	12552.630	0.877	0.396	0.396	0.72	0.77	NO	55.4
35	Total-tetrafurans	303.9016	27.50	12309.368	0.877	0.388	0.388	0.82	0.77	NO	42.7
35	Total-tetrafurans	303.9016	26.57	0.000	0.877	0.000	0.016	1.19	0.77	YES	4.8
35	Total-tetrafurans	303.9016	26.47	0.000	0.877	0.000	0.014	0.64	0.77	YES	2.6
35	Total-tetrafurans	303.9016	26.29	39350.364	0.877	1.241	1.241	0.69	0.77	NO	156.7
35	Total-tetrafurans	303.9016	26.20	14196.639	0.877	0.448	0.448	0.73	0.77	NO	66.0
1	2378-TCDF	303.9016	26.06	33814.471	0.877	1.066	1.066	0.68	0.77	NO	144.7
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.178	2.16	0.77	YES	38.8
35	Total-tetrafurans	303.9016	25.67	1399.073	0.877	0.044	0.044	0.88	0.77	NO	8.5
35	Total-tetrafurans	303.9016	25.56	7227.744	0.877	0.228	0.228	0.78	0.77	NO	29.7
35	Total-tetrafurans	303.9016	25.38	0.000	0.877	0.000	0.320	0.92	0.77	YES	62.1
35	Total-tetrafurans	303.9016	25.15	20994.053	0.877	0.662	0.662	0.73	0.77	NO	97.8
35	Total-tetrafurans	303.9016	24.97	38472.680	0.877	1.213	1.213	0.67	0.77	NO	160.5
35	Total-tetrafurans	303.9016	24.82	13790.969	0.877	0.435	0.435	0.68	0.77	NO	60.5
37	Total-pentafurans	339.8597	30.51	6715.995	0.911	0.230	0.230	1.38	1.55	NO	33.6
37	Total-pentafurans	339.8597	30.41	20655.589	0.911	0.707	0.707	1.51	1.55	NO	103.4
2	12378-PeCDF	339.8597	30.20	23998.217	0.896	0.856	0.856	1.50	1.55	NO	134.1
37	Total-pentafurans	339.8597	29.93	6048.465	0.911	0.207	0.207	1.55	1.55	NO	46.6
37	Total-pentafurans	339.8597	29.85	50322.479	0.911	1.722	1.722	1.47	1.55	NO	230.5
37	Total-pentafurans	339.8597	29.74	8474.429	0.911	0.290	0.290	1.34	1.55	NO	48.0
37	Total-pentafurans	339.8597	29.63	3413.144	0.911	0.117	0.117	1.42	1.55	NO	21.5
37	Total-pentafurans	339.8597	29.60	0.000	0.911	0.000	0.081	1.99	1.55	YES	19.5
37	Total-pentafurans	339.8597	29.42	0.000	0.911	0.000	0.099	1.84	1.55	YES	19.5
37	Total-pentafurans	339.8597	29.25	0.000	0.911	0.000	0.031	3.70	1.55	YES	10.8
37	Total-pentafurans	339.8597	29.14	95859.938	0.911	3.281	3.281	1.57	1.55	NO	472.8
37	Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	1.541	1.19	1.55	YES	286.1
37	Total-pentafurans	339.8597	28.94	30470.298	0.911	1.043	1.043	1.46	1.55	NO	118.2
37	Total-pentafurans	339.8597	28.84	2367.451	0.911	0.081	0.081	1.66	1.55	NO	20.8
37	Total-pentafurans	339.8597	32.57	0.000	0.911	0.000	0.116	1.23	1.55	YES	17.7
3	23478-PeCDF	339.8597	31.55	28368.318	0.926	0.932	0.932	1.42	1.55	NO	145.0
37	Total-pentafurans	339.8597	31.40	25293.779	0.911	0.866	0.866	1.42	1.55	NO	125.6
37	Total-pentafurans	339.8597	31.27	12714.273	0.911	0.435	0.435	1.36	1.55	NO	66.5
37	Total-pentafurans	339.8597	31.04	0.000	0.911	0.000	0.023	3.05	1.55	YES	6.4
37	Total-pentafurans	339.8597	30.67	0.000	0.911	0.000	0.030	1.93	1.55	YES	5.1
7	123789-HxCDF	373.8208	37.43	22054.149	0.987	0.000	0.825	1.03	1.24	YES	55.4
5	234678-HxCDF	373.8208	36.33	78849.324	1.037	3.106	3.106	1.14	1.24	NO	129.0
38	Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.153	0.95	1.24	YES	10.9

VR82: 00946

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
50	6 123678-HxCDF	373.8208	35.37	54995.621	1.035	2.013	2.013	1.18	1.24	NO	147.8
51	4 123478-HxCDF	373.8208	35.23	66669.090	1.068	2.418	2.418	1.17	1.24	NO	169.6
52	38 Total-hexafurans	373.8208	35.07	14771.777	1.032	0.564	0.564	1.29	1.24	NO	46.0
53	38 Total-hexafurans	373.8208	34.57	672825.344	1.032	25.683	25.683	1.17	1.24	NO	1815.8
54	38 Total-hexafurans	373.8208	34.26	12204.923	1.032	0.466	0.466	1.09	1.24	NO	30.2
55	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.063	1.46	1.24	YES	5.8
56	38 Total-hexafurans	373.8208	33.72	626628.719	1.032	23.920	23.920	1.18	1.24	NO	1625.3
57	38 Total-hexafurans	373.8208	33.50	232765.235	1.032	8.885	8.885	1.16	1.24	NO	631.8
58	9 1234789-HpCDF	407.7818	42.22	43960.623	1.215	2.315	2.315	0.95	1.05	NO	111.3
59	39 Total-heptafurans	407.7818	41.35	0.000	1.223	0.000	0.131	0.77	1.05	YES	9.0
60	39 Total-heptafurans	407.7818	40.32	1969078.063	1.223	91.062	91.062	0.98	1.05	NO	5337.8
61	39 Total-heptafurans	407.7818	40.02	24824.839	1.223	1.148	1.148	0.95	1.05	NO	57.1
62	8 1234678-HpCDF	407.7818	39.53	1022020.344	1.232	42.072	42.072	0.98	1.05	NO	2914.7
63	10 OCDF	441.7428	47.54	1991618.375	1.138	136.221	136....	0.84	0.89	NO	5566.7
64	36 Total-penta1	339.8597	27.48	501803.376		17.066	17.066	1.53	1.55	NO	4377.8
65	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.234	0.75	0.77	NO	35.6
66	35 Total-tetrafurans	303.9016	24.73	27427.103	0.877	0.865	0.865	0.73	0.77	NO	93.4
67	35 Total-tetrafurans	303.9016	24.55	0.000	0.877	0.000	0.030	0.61	0.77	YES	4.9
68	35 Total-tetrafurans	303.9016	24.32	23245.599	0.877	0.733	0.733	0.77	0.77	NO	105.6
69	35 Total-tetrafurans	303.9016	24.17	22208.331	0.877	0.700	0.700	0.75	0.77	NO	102.6
70	35 Total-tetrafurans	303.9016	24.06	31886.106	0.877	1.005	1.005	0.70	0.77	NO	137.3
71	35 Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.210	0.64	0.77	YES	38.8
72	35 Total-tetrafurans	303.9016	23.82	32207.921	0.877	1.015	1.015	0.78	0.77	NO	143.2
73	35 Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.468	0.65	0.77	YES	71.2
74	35 Total-tetrafurans	303.9016	23.60	17961.363	0.877	0.566	0.566	0.71	0.77	NO	55.3
75	35 Total-tetrafurans	303.9016	23.52	9336.107	0.877	0.294	0.294	0.76	0.77	NO	52.5
76	35 Total-tetrafurans	303.9016	23.40	85916.133	0.877	2.709	2.709	0.71	0.77	NO	369.5
77	35 Total-tetrafurans	303.9016	22.84	19715.442	0.877	0.622	0.622	0.77	0.77	NO	91.0
78	35 Total-tetrafurans	303.9016	22.57	12552.630	0.877	0.396	0.396	0.72	0.77	NO	55.4
79	35 Total-tetrafurans	303.9016	27.50	12309.368	0.877	0.388	0.388	0.82	0.77	NO	42.7
80	35 Total-tetrafurans	303.9016	26.57	0.000	0.877	0.000	0.016	1.19	0.77	YES	4.8
81	35 Total-tetrafurans	303.9016	26.47	0.000	0.877	0.000	0.014	0.64	0.77	YES	2.6
82	35 Total-tetrafurans	303.9016	26.29	39350.364	0.877	1.241	1.241	0.69	0.77	NO	156.7
83	35 Total-tetrafurans	303.9016	26.20	14196.639	0.877	0.448	0.448	0.73	0.77	NO	66.0
84	1 2378-TCDF	303.9016	26.06	33814.471	0.877	1.066	1.066	0.68	0.77	NO	144.7
85	35 Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.178	2.16	0.77	YES	38.8
86	35 Total-tetrafurans	303.9016	25.67	1399.073	0.877	0.044	0.044	0.88	0.77	NO	8.5
87	35 Total-tetrafurans	303.9016	25.56	7227.744	0.877	0.228	0.228	0.78	0.77	NO	29.7
88	35 Total-tetrafurans	303.9016	25.38	0.000	0.877	0.000	0.320	0.92	0.77	YES	62.1
89	35 Total-tetrafurans	303.9016	25.15	20994.053	0.877	0.662	0.662	0.73	0.77	NO	97.8
90	35 Total-tetrafurans	303.9016	24.97	38472.680	0.877	1.213	1.213	0.67	0.77	NO	160.5
91	35 Total-tetrafurans	303.9016	24.82	13790.969	0.877	0.435	0.435	0.68	0.77	NO	60.5
92	37 Total-pentafurans	339.8597	30.51	6715.995	0.911	0.230	0.230	1.38	1.55	NO	33.6
93	37 Total-pentafurans	339.8597	30.41	20655.589	0.911	0.707	0.707	1.51	1.55	NO	103.4
94	2 12378-PeCDF	339.8597	30.20	23998.217	0.896	0.856	0.856	1.50	1.55	NO	134.1
95	37 Total-pentafurans	339.8597	29.93	6048.465	0.911	0.207	0.207	1.55	1.55	NO	46.6
96	37 Total-pentafurans	339.8597	29.85	50322.479	0.911	1.722	1.722	1.47	1.55	NO	230.5
97	37 Total-pentafurans	339.8597	29.74	8474.429	0.911	0.290	0.290	1.34	1.55	NO	48.0
98	37 Total-pentafurans	339.8597	29.63	3413.144	0.911	0.117	0.117	1.42	1.55	NO	21.5

VR82: 00947

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1 st Rati..	1 st Rati..	1 st R..	S/N
99	37 Total-pentafurans	339.8597	29.60	0.000	0.911	0.000	0.081	1.99	1.55	YES	19.5
100	37 Total-pentafurans	339.8597	29.42	0.000	0.911	0.000	0.099	1.84	1.55	YES	19.5
101	37 Total-pentafurans	339.8597	29.25	0.000	0.911	0.000	0.031	3.70	1.55	YES	10.8
102	37 Total-pentafurans	339.8597	29.14	95859.938	0.911	3.281	3.281	1.57	1.55	NO	472.8
103	37 Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	1.541	1.19	1.55	YES	286.1
104	37 Total-pentafurans	339.8597	28.94	30470.298	0.911	1.043	1.043	1.46	1.55	NO	118.2
105	37 Total-pentafurans	339.8597	28.84	2367.451	0.911	0.081	0.081	1.66	1.55	NO	20.8
106	37 Total-pentafurans	339.8597	32.57	0.000	0.911	0.000	0.116	1.23	1.55	YES	17.7
107	3 23478-PeCDF	339.8597	31.55	28368.318	0.926	0.932	0.932	1.42	1.55	NO	145.0
108	37 Total-pentafurans	339.8597	31.40	25293.779	0.911	0.866	0.866	1.42	1.55	NO	125.6
109	37 Total-pentafurans	339.8597	31.27	12714.273	0.911	0.435	0.435	1.36	1.55	NO	66.5
110	37 Total-pentafurans	339.8597	31.04	0.000	0.911	0.000	0.023	3.05	1.55	YES	6.4
111	37 Total-pentafurans	339.8597	30.67	0.000	0.911	0.000	0.030	1.93	1.55	YES	5.1
112	7 123789-HxCDF	373.8208	37.43	22054.149	0.987	0.000	0.825	1.03	1.24	YES	55.4
113	5 234678-HxCDF	373.8208	36.33	78849.324	1.037	3.106	3.106	1.14	1.24	NO	129.0
114	38 Total-hexafurans	373.8208	35.75	0.000	1.032	0.000	0.153	0.95	1.24	YES	10.9
115	6 123678-HxCDF	373.8208	35.37	54995.621	1.035	2.013	2.013	1.18	1.24	NO	147.8
116	4 123478-HxCDF	373.8208	35.23	66669.090	1.068	2.418	2.418	1.17	1.24	NO	169.6
117	38 Total-hexafurans	373.8208	35.07	14771.777	1.032	0.564	0.564	1.29	1.24	NO	46.0
118	38 Total-hexafurans	373.8208	34.57	672825.344	1.032	25.683	25.683	1.17	1.24	NO	1815.8
119	38 Total-hexafurans	373.8208	34.26	12204.923	1.032	0.466	0.466	1.09	1.24	NO	30.2
120	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.063	1.46	1.24	YES	5.8
121	38 Total-hexafurans	373.8208	33.72	626628.719	1.032	23.920	23.920	1.18	1.24	NO	1625.3
122	38 Total-hexafurans	373.8208	33.50	232765.235	1.032	8.885	8.885	1.16	1.24	NO	631.8
123	9 1234789-HpCDF	407.7818	42.22	43960.623	1.215	2.315	2.315	0.95	1.05	NO	111.3
124	39 Total-heptafurans	407.7818	41.35	0.000	1.223	0.000	0.131	0.77	1.05	YES	9.0
125	39 Total-heptafurans	407.7818	40.32	1969078.063	1.223	91.062	91.062	0.98	1.05	NO	5337.8
126	39 Total-heptafurans	407.7818	40.02	24824.839	1.223	1.148	1.148	0.95	1.05	NO	57.1
127	8 1234678-HpCDF	407.7818	39.53	1022020.344	1.232	42.072	42.072	0.98	1.05	NO	2914.7
128	10 OCDF	441.7428	47.54	1991618.375	1.138	136.221	136....	0.84	0.89	NO	5566.7
129	36 Total-penta1	339.8597	27.48	501803.376		17.066	17.066	1.53	1.55	NO	4377.8
130	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.234	0.75	0.77	NO	35.6

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

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Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

PFK1

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	23.33	0.000							0.6
2	48 FUNCTION1 PFK	330.9792	23.06	0.000							1.1
3	48 FUNCTION1 PFK	330.9792	22.84	0.000							0.8
4	48 FUNCTION1 PFK	330.9792	22.42	0.000							0.7
5	48 FUNCTION1 PFK	330.9792	22.07	0.000							1.1
6	48 FUNCTION1 PFK	330.9792	21.84	0.000							0.4
7	48 FUNCTION1 PFK	330.9792	21.34	0.000							10.7
8	48 FUNCTION1 PFK	330.9792	21.30	0.000							11.7
9	48 FUNCTION1 PFK	330.9792	21.15	0.000							14.9
10	48 FUNCTION1 PFK	330.9792	28.23	0.000							0.6
11	48 FUNCTION1 PFK	330.9792	28.08	0.000							1.7
12	48 FUNCTION1 PFK	330.9792	27.77	0.000							1.0
13	48 FUNCTION1 PFK	330.9792	27.51	0.000							0.4
14	48 FUNCTION1 PFK	330.9792	26.87	0.000							0.5
15	48 FUNCTION1 PFK	330.9792	25.81	0.000							1.3
16	48 FUNCTION1 PFK	330.9792	25.76	0.000							1.1
17	48 FUNCTION1 PFK	330.9792	25.48	0.000							1.0
18	48 FUNCTION1 PFK	330.9792	25.20	0.000							2.0
19	48 FUNCTION1 PFK	330.9792	25.00	0.000							0.5
20	48 FUNCTION1 PFK	330.9792	24.85	0.000							0.4
21	48 FUNCTION1 PFK	330.9792	24.79	0.000							0.4
22	48 FUNCTION1 PFK	330.9792	24.73	0.000							0.8
23	48 FUNCTION1 PFK	330.9792	24.09	0.000							0.4
24	48 FUNCTION1 PFK	330.9792	24.03	0.000							0.4
25	48 FUNCTION1 PFK	330.9792	23.84	0.000							1.5

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK2

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
49	FUNCTION2 PFK	366.9792	29.71	0.000		0.000					2.8
49	FUNCTION2 PFK	366.9792	29.63	0.000		0.000					3.4
49	FUNCTION2 PFK	366.9792	29.61	0.000		0.000					3.6
49	FUNCTION2 PFK	366.9792	29.41	0.000		0.000					3.7
49	FUNCTION2 PFK	366.9792	29.37	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	29.33	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	29.29	0.000		0.000					2.3
49	FUNCTION2 PFK	366.9792	29.21	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	29.17	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	29.10	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	28.93	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	28.89	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	28.82	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	28.53	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	28.40	0.000		0.000					2.2
49	FUNCTION2 PFK	366.9792	31.48	0.000		0.000					2.5
49	FUNCTION2 PFK	366.9792	31.44	0.000		0.000					2.1
49	FUNCTION2 PFK	366.9792	31.29	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	31.10	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	30.78	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	30.70	0.000		0.000					2.2
49	FUNCTION2 PFK	366.9792	30.67	0.000		0.000					2.5
49	FUNCTION2 PFK	366.9792	30.61	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	30.56	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	30.46	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.42	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	30.33	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.20	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.08	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	29.86	0.000		0.000					2.3
49	FUNCTION2 PFK	366.9792	29.76	0.000		0.000					3.9
49	FUNCTION2 PFK	366.9792	33.00	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	32.94	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	32.62	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	32.57	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	32.52	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	31.97	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	31.89	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	31.84	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	31.80	0.000		0.000					0.3
49	FUNCTION2 PFK	366.9792	31.61	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	31.56	0.000		0.000					2.5

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
50	FUNCTION3 PFK	380.9760	37.96	0.000		0.000					11.0
50	FUNCTION3 PFK	380.9760	37.33	0.000		0.000					26.4

VR82 : 00950

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

PFK4

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rafi...	1° Rafi...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	38.61	0.000							1.1
2	51 FUNCTION4 PFK	430.9728	41.51	0.000							0.7
3	51 FUNCTION4 PFK	430.9728	41.17	0.000							1.7
4	51 FUNCTION4 PFK	430.9728	41.12	0.000							1.6
5	51 FUNCTION4 PFK	430.9728	41.03	0.000							3.2
6	51 FUNCTION4 PFK	430.9728	40.99	0.000							3.1
7	51 FUNCTION4 PFK	430.9728	40.48	0.000							1.6
8	51 FUNCTION4 PFK	430.9728	40.27	0.000							1.5
9	51 FUNCTION4 PFK	430.9728	40.11	0.000							0.5
10	51 FUNCTION4 PFK	430.9728	39.67	0.000							1.1
11	51 FUNCTION4 PFK	430.9728	39.59	0.000							2.0
12	51 FUNCTION4 PFK	430.9728	39.56	0.000							2.0
13	51 FUNCTION4 PFK	430.9728	39.32	0.000							1.2
14	51 FUNCTION4 PFK	430.9728	38.94	0.000							1.9
15	51 FUNCTION4 PFK	430.9728	38.79	0.000							1.2
16	51 FUNCTION4 PFK	430.9728	38.73	0.000							0.7
17	51 FUNCTION4 PFK	430.9728	38.64	0.000							0.6
18	51 FUNCTION4 PFK	430.9728	44.09	0.000							0.9
19	51 FUNCTION4 PFK	430.9728	43.87	0.000							1.0
20	51 FUNCTION4 PFK	430.9728	43.56	0.000							0.8
21	51 FUNCTION4 PFK	430.9728	43.39	0.000							1.3
22	51 FUNCTION4 PFK	430.9728	43.16	0.000							1.4
23	51 FUNCTION4 PFK	430.9728	43.07	0.000							1.5
24	51 FUNCTION4 PFK	430.9728	42.92	0.000							1.1
25	51 FUNCTION4 PFK	430.9728	42.64	0.000							0.9
26	51 FUNCTION4 PFK	430.9728	42.49	0.000							1.1
27	51 FUNCTION4 PFK	430.9728	42.42	0.000							0.6
28	51 FUNCTION4 PFK	430.9728	42.24	0.000							1.0
29	51 FUNCTION4 PFK	430.9728	42.19	0.000							1.0
30	51 FUNCTION4 PFK	430.9728	42.15	0.000							0.7
31	51 FUNCTION4 PFK	430.9728	42.04	0.000							0.6
32	51 FUNCTION4 PFK	430.9728	41.93	0.000							0.7
33	51 FUNCTION4 PFK	430.9728	41.79	0.000							0.4
34	51 FUNCTION4 PFK	430.9728	44.75	0.000							1.5
35	51 FUNCTION4 PFK	430.9728	44.66	0.000							0.4
36	51 FUNCTION4 PFK	430.9728	44.53	0.000							2.0
37	51 FUNCTION4 PFK	430.9728	44.43	0.000							1.4
38	51 FUNCTION4 PFK	430.9728	44.37	0.000							1.8
39	51 FUNCTION4 PFK	430.9728	44.32	0.000							1.9
40	51 FUNCTION4 PFK	430.9728	44.22	0.000							1.2

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PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.52	0.000							1.1
2	52 FUNCTION5 PFK	480.9696	45.49	0.000							2.0
3	52 FUNCTION5 PFK	480.9696	45.45	0.000							2.4
4	52 FUNCTION5 PFK	480.9696	45.39	0.000							1.3
5	52 FUNCTION5 PFK	480.9696	45.20	0.000							4.3
6	52 FUNCTION5 PFK	480.9696	45.13	0.000							7.2
7	52 FUNCTION5 PFK	480.9696	45.08	0.000							9.4
8	52 FUNCTION5 PFK	480.9696	45.07	0.000							9.3
9	52 FUNCTION5 PFK	480.9696	46.69	0.000							1.1
10	52 FUNCTION5 PFK	480.9696	46.64	0.000							1.5
11	52 FUNCTION5 PFK	480.9696	46.61	0.000							1.6
12	52 FUNCTION5 PFK	480.9696	46.56	0.000							2.0
13	52 FUNCTION5 PFK	480.9696	46.44	0.000							1.2
14	52 FUNCTION5 PFK	480.9696	46.39	0.000							1.3
15	52 FUNCTION5 PFK	480.9696	46.36	0.000							0.8
16	52 FUNCTION5 PFK	480.9696	46.32	0.000							0.4
17	52 FUNCTION5 PFK	480.9696	46.13	0.000							1.6
18	52 FUNCTION5 PFK	480.9696	46.09	0.000							1.4
19	52 FUNCTION5 PFK	480.9696	45.99	0.000							0.4
20	52 FUNCTION5 PFK	480.9696	45.90	0.000							1.6
21	52 FUNCTION5 PFK	480.9696	45.83	0.000							1.8
22	52 FUNCTION5 PFK	480.9696	45.76	0.000							0.8
23	52 FUNCTION5 PFK	480.9696	45.60	0.000							1.5
24	52 FUNCTION5 PFK	480.9696	45.55	0.000							1.2
25	52 FUNCTION5 PFK	480.9696	47.96	0.000							1.5
26	52 FUNCTION5 PFK	480.9696	47.91	0.000							0.9
27	52 FUNCTION5 PFK	480.9696	47.87	0.000							1.2
28	52 FUNCTION5 PFK	480.9696	47.82	0.000							0.9
29	52 FUNCTION5 PFK	480.9696	47.57	0.000							1.0
30	52 FUNCTION5 PFK	480.9696	47.48	0.000							1.3
31	52 FUNCTION5 PFK	480.9696	47.43	0.000							1.3
32	52 FUNCTION5 PFK	480.9696	47.31	0.000							2.9
33	52 FUNCTION5 PFK	480.9696	47.23	0.000							3.6
34	52 FUNCTION5 PFK	480.9696	47.14	0.000							2.0
35	52 FUNCTION5 PFK	480.9696	47.06	0.000							1.5
36	52 FUNCTION5 PFK	480.9696	47.02	0.000							1.0
37	52 FUNCTION5 PFK	480.9696	46.87	0.000							1.5
38	52 FUNCTION5 PFK	480.9696	46.83	0.000							1.8
39	52 FUNCTION5 PFK	480.9696	46.76	0.000							0.4
40	52 FUNCTION5 PFK	480.9696	46.71	0.000							1.2
41	52 FUNCTION5 PFK	480.9696	48.86	0.000							1.7
42	52 FUNCTION5 PFK	480.9696	48.82	0.000							1.1
43	52 FUNCTION5 PFK	480.9696	48.75	0.000							1.1
44	52 FUNCTION5 PFK	480.9696	48.71	0.000							0.9
45	52 FUNCTION5 PFK	480.9696	48.61	0.000							1.3
46	52 FUNCTION5 PFK	480.9696	48.54	0.000							0.9
47	52 FUNCTION5 PFK	480.9696	48.51	0.000							1.3
48	52 FUNCTION5 PFK	480.9696	48.47	0.000							1.1
49	52 FUNCTION5 PFK	480.9696	48.31	0.000							0.4

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	52 FUNCTION5 PFK	480.9696	48.27	0.000							0.9
51	52 FUNCTION5 PFK	480.9696	48.23	0.000							0.7
52	52 FUNCTION5 PFK	480.9696	48.15	0.000							1.3
53	52 FUNCTION5 PFK	480.9696	48.07	0.000							1.2

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	22.42	0.000		0.000					2.1
2	53 FUNCTION1 HXCD...	375.8364	22.13	0.000		0.000					2.5
3	53 FUNCTION1 HXCD...	375.8364	26.27	0.000		0.000					4.4
4	53 FUNCTION1 HXCD...	375.8364	26.12	0.000		0.000					3.2
5	53 FUNCTION1 HXCD...	375.8364	26.03	0.000		0.000					2.3
6	53 FUNCTION1 HXCD...	375.8364	25.91	0.000		0.000					3.4
7	53 FUNCTION1 HXCD...	375.8364	25.88	0.000		0.000					3.6
8	53 FUNCTION1 HXCD...	375.8364	24.09	0.000		0.000					2.4
9	53 FUNCTION1 HXCD...	375.8364	23.93	0.000		0.000					9.7
10	53 FUNCTION1 HXCD...	375.8364	23.87	0.000		0.000					2.5
11	53 FUNCTION1 HXCD...	375.8364	22.54	0.000		0.000					4.2

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.21	0.000		0.000					3.0
2	54 FUNCTION1 HPCD...	409.7974	26.72	0.000		0.000					1.8
3	54 FUNCTION1 HPCD...	409.7974	26.65	0.000		0.000					2.7
4	54 FUNCTION1 HPCD...	409.7974	25.99	0.000		0.000					2.1
5	54 FUNCTION1 HPCD...	409.7974	24.18	0.000		0.000					2.9
6	54 FUNCTION1 HPCD...	409.7974	21.51	0.000		0.000					2.6

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.83	0.000		0.000					1.8
2	55 FUNCTION2 HPCD...	409.7974	31.79	0.000		0.000					2.0
3	55 FUNCTION2 HPCD...	409.7974	30.18	0.000		0.000					3.2
4	55 FUNCTION2 HPCD...	409.7974	30.13	0.000		0.000					2.7
5	55 FUNCTION2 HPCD...	409.7974	30.05	0.000		0.000					1.9
6	55 FUNCTION2 HPCD...	409.7974	29.84	0.000		0.000					3.2
7	55 FUNCTION2 HPCD...	409.7974	29.41	0.000		0.000					2.9

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	37.02	0.000		0.000					3.0
2	56 FUNCTION3 OCDPE	445.7555	35.19	0.000		0.000					3.6
3	56 FUNCTION3 OCDPE	445.7555	34.57	0.000		0.000					5.6
4	56 FUNCTION3 OCDPE	445.7555	33.41	0.000		0.000					6.0

Quantify Totals Report MassLynx 4.1 SCN 714

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ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	57 FUNCTION4 NCDPE	479.7165	41.69	0.000		0.000					3.0
2	57 FUNCTION4 NCDPE	479.7165	39.11	0.000		0.000					688.8

ETHERS6

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1											

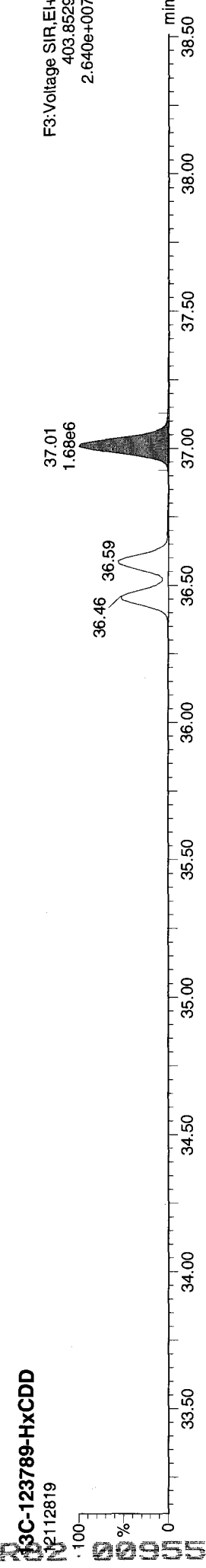
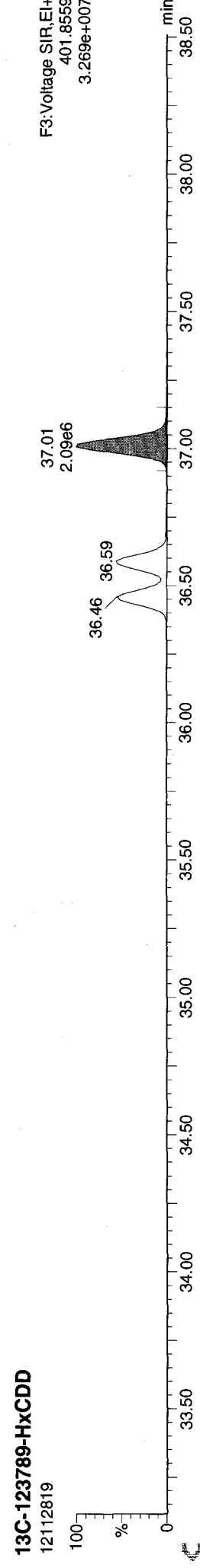
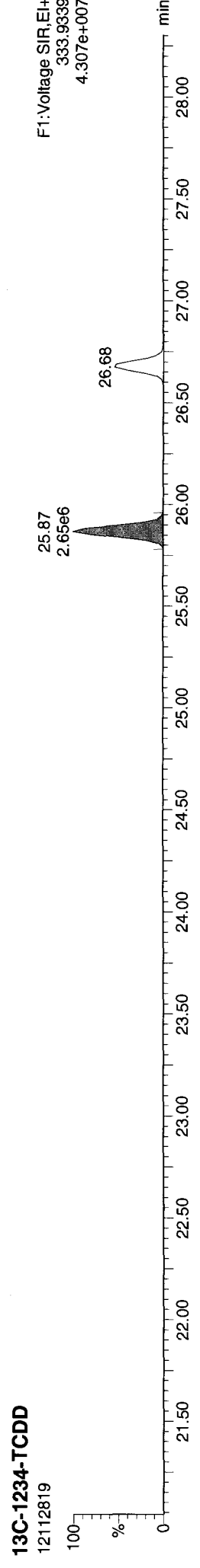
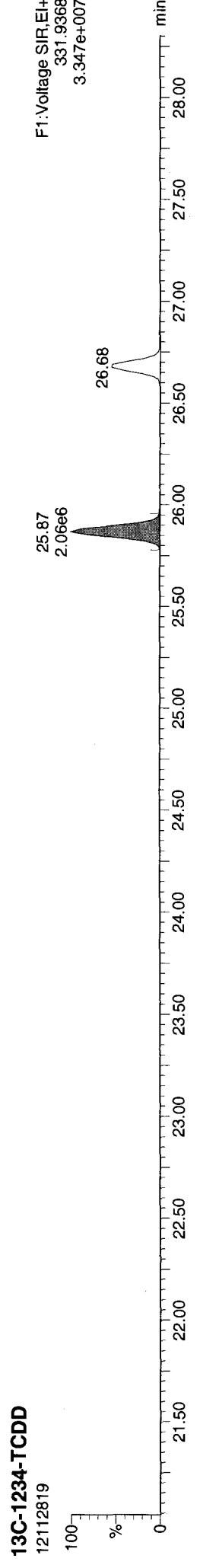
VR82 : 00954

Quantity Sample Report MassLynx 4.1 SCN 714

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Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

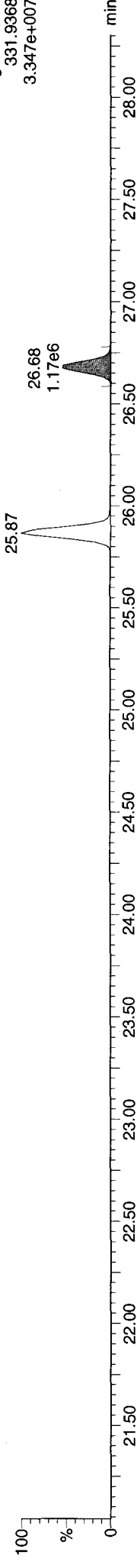
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

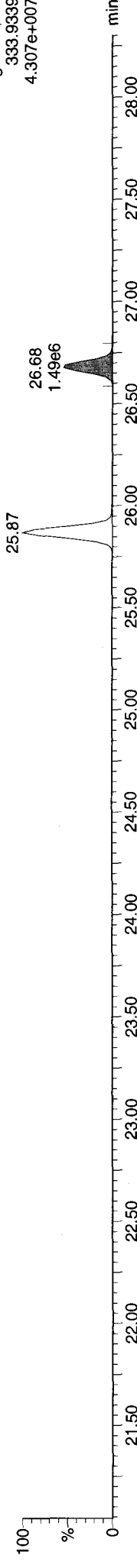
12112819



F1: Voltage SIR, EI+
331.9368
3.347e+007

13C-2378-TCDD

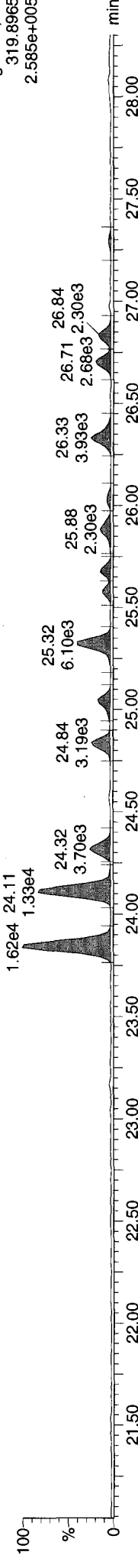
12112819



F1: Voltage SIR, EI+
333.9339
4.307e+007

Total-tetradioxins

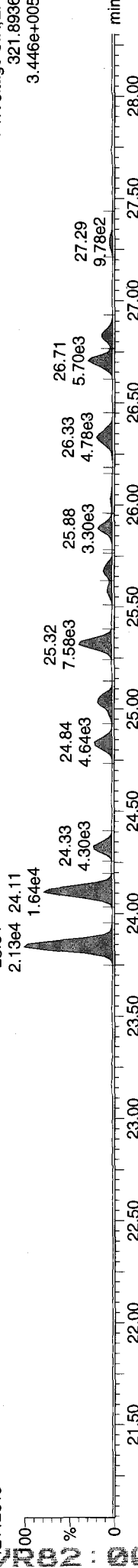
12112819



F1: Voltage SIR, EI+
319.8965
2.585e+005

Total-tetradioxins

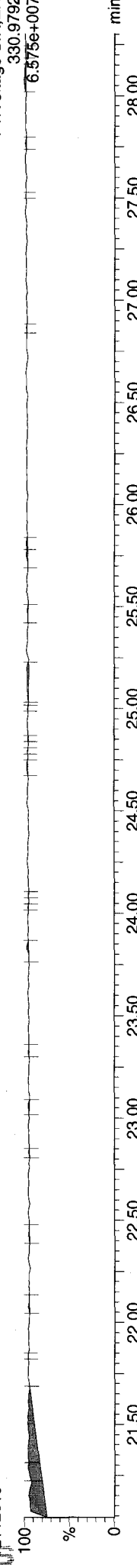
12112819



F1: Voltage SIR, EI+
321.8936
3.446e+005

FUNCTION1 PFK

12112819



F1: Voltage SIR, EI+
330.9792
6.575e+007

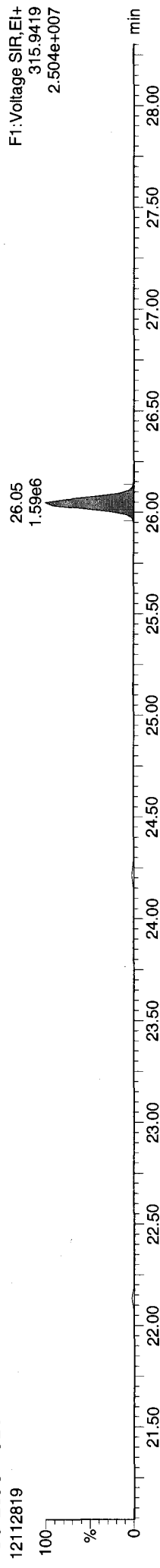
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

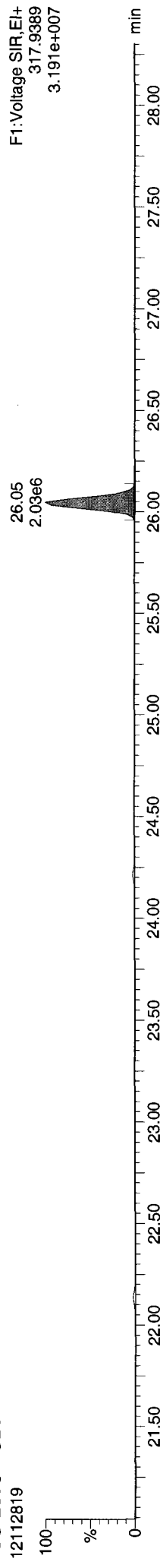
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

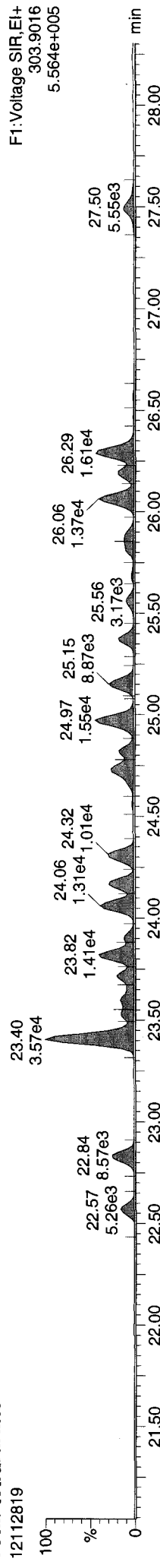
13C-2378-TCDF



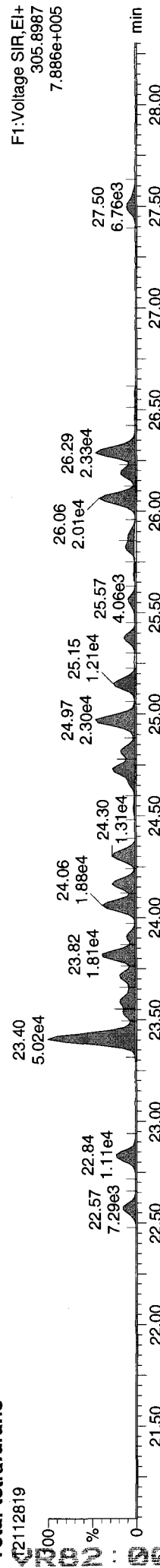
13C-2378-TCDF



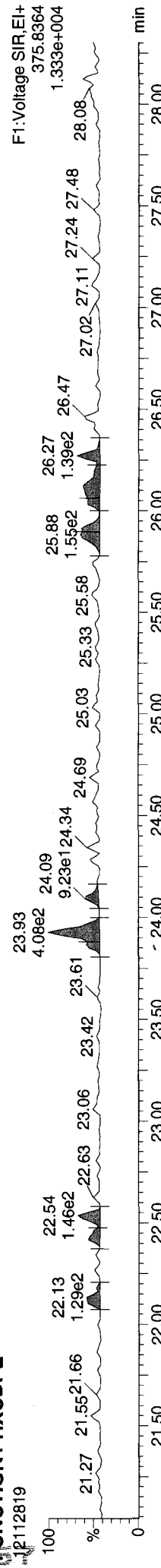
Total-tetrafurans



Total-tetrafurans



JUNCTION1 HXCDPE



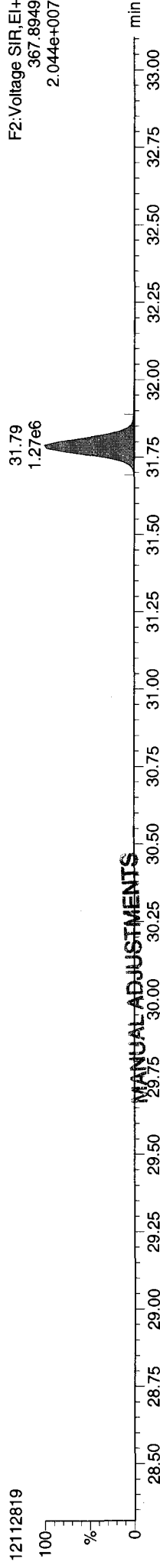
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

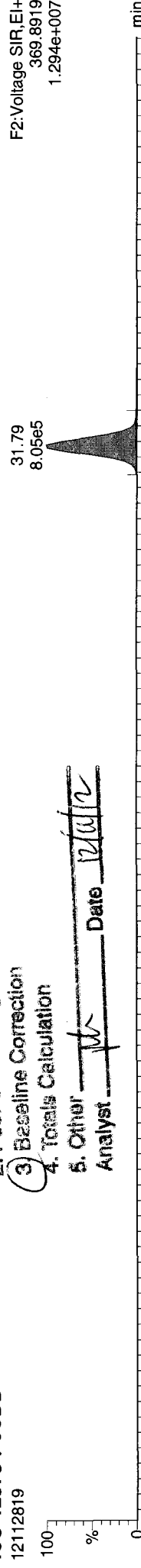
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD



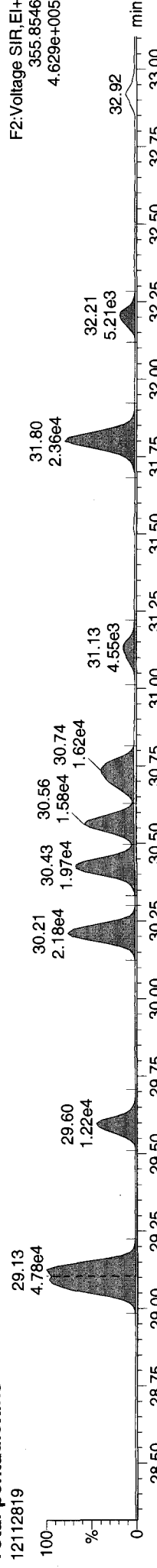
13C-12378-PeCDD



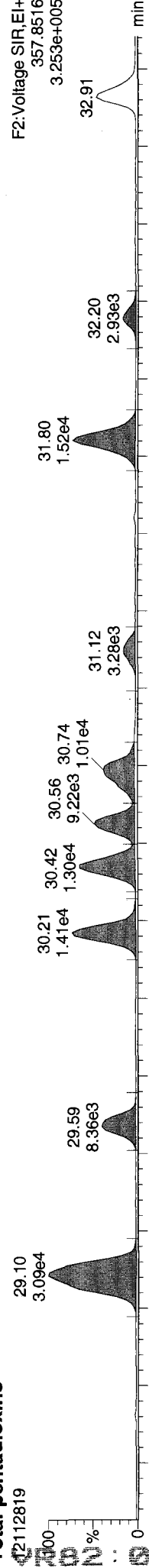
MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: pk Date: 12/10/12

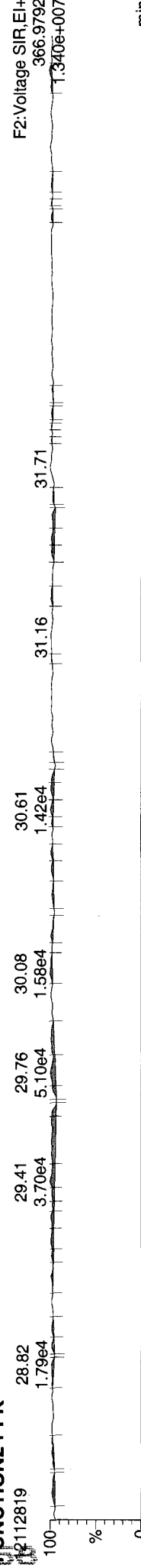
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



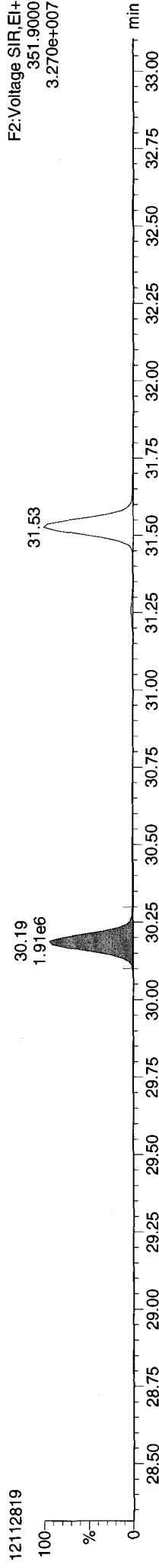
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

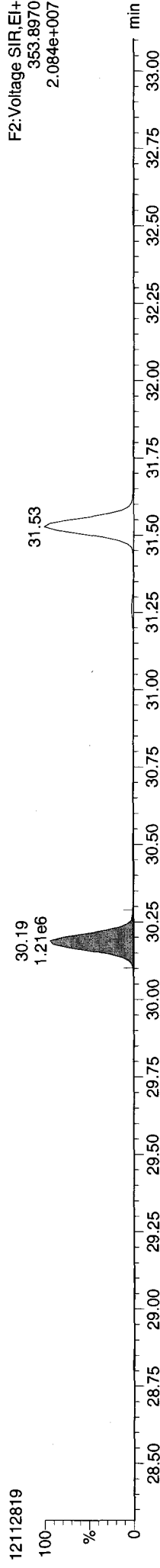
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

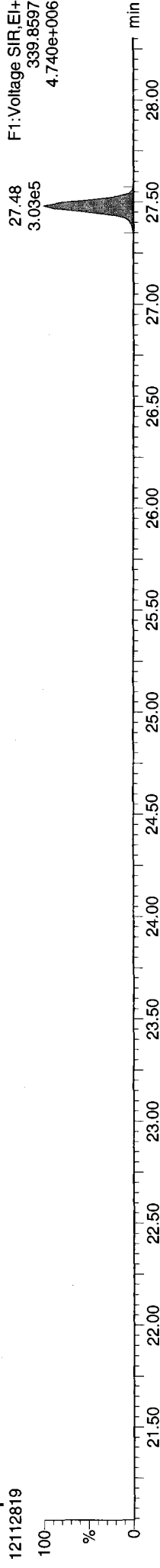
13C-12378-PeCDF



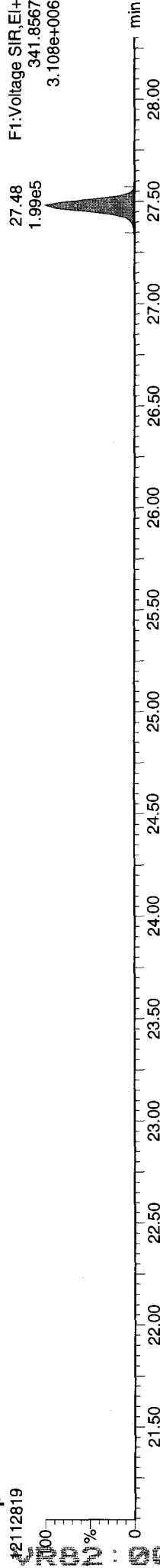
13C-12378-PeCDF



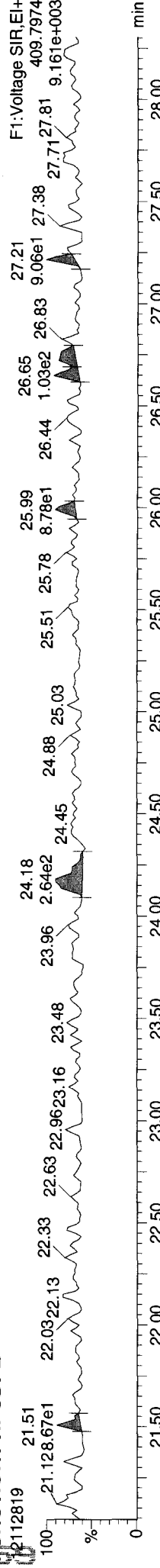
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



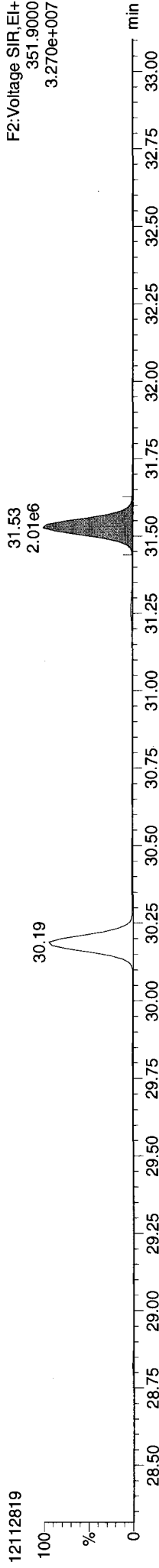
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

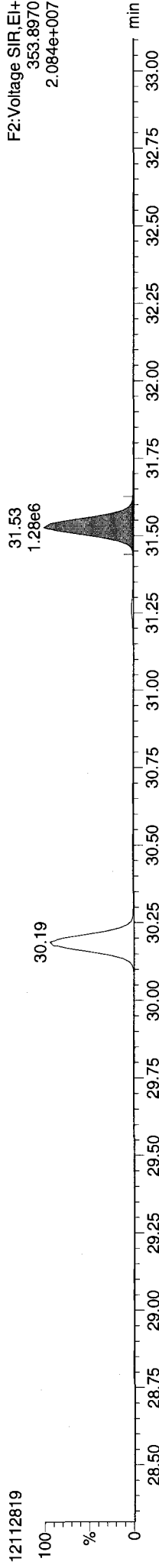
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

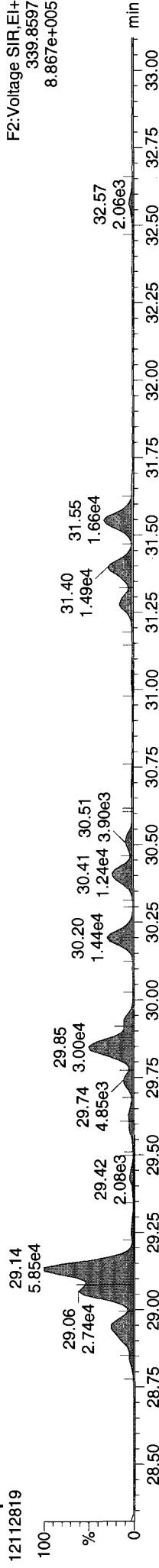
13C-23478-PeCDF



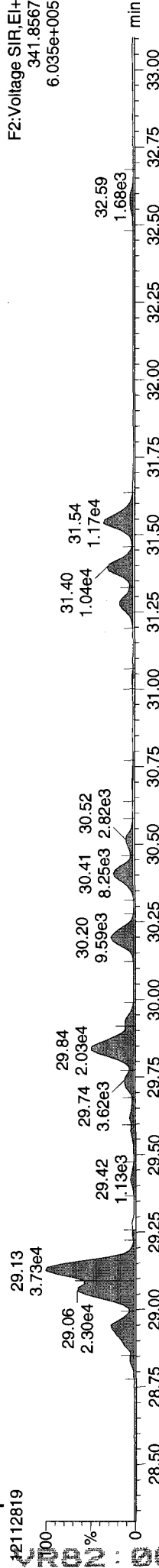
13C-23478-PeCDF



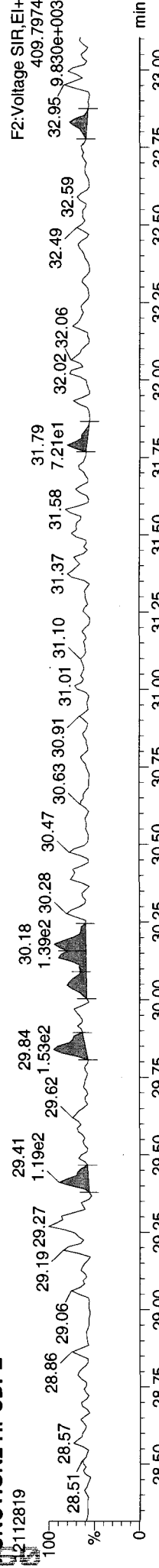
Total-pentafurans



Total-pentafurans



JUNCTION2 HPCDPE



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

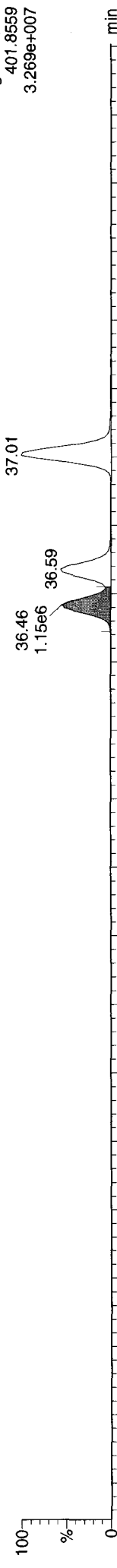
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

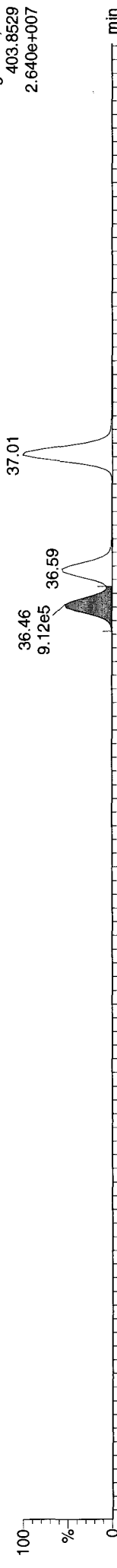
13C-123478-HxCDD

12112819



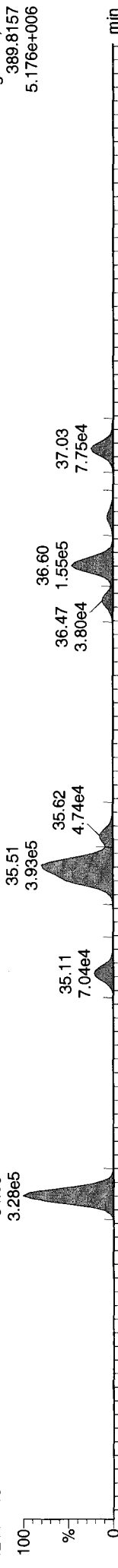
13C-123478-HxCDD

12112819



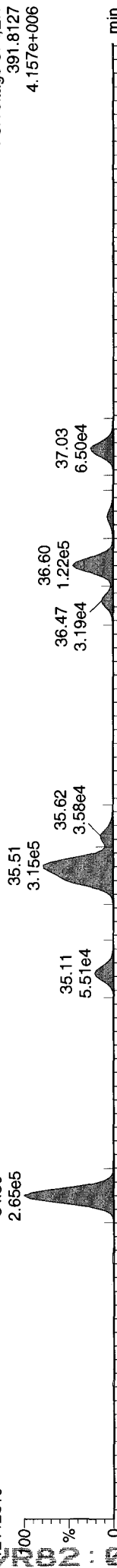
Total-hexadioxins

12112819



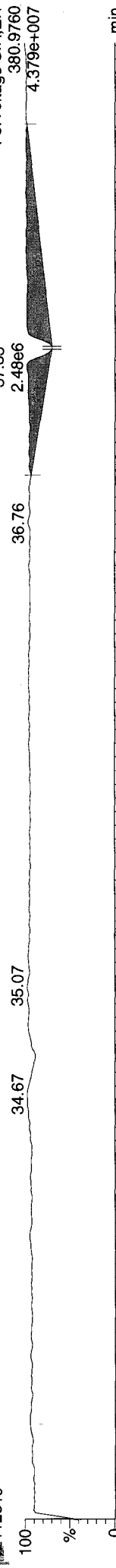
Total-hexadioxins

12112819



FUNCTION3 PFK

12112819



Quantify Sample Report MassLynx 4.1 SCN 714

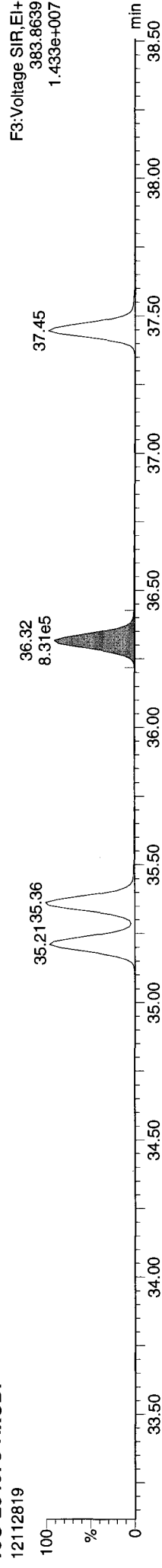
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

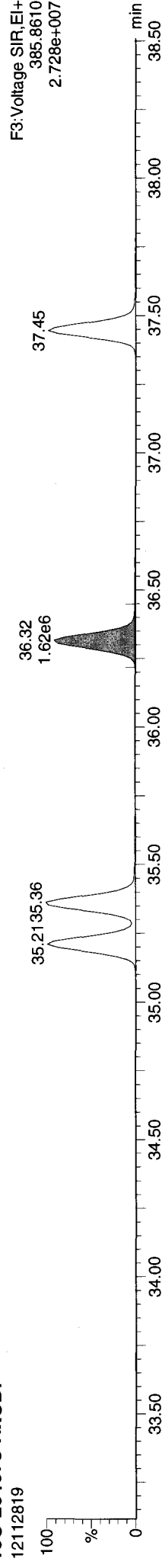
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

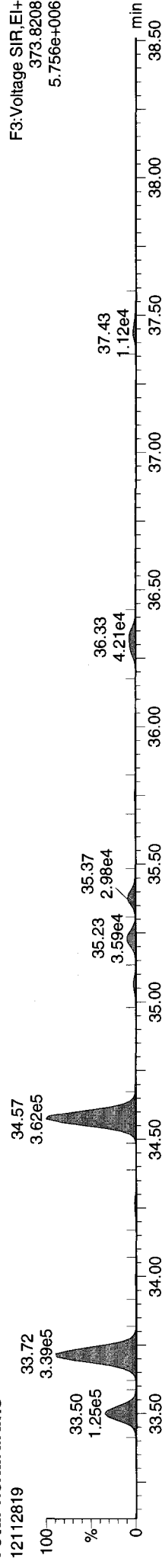
13C-234678-HxCDF



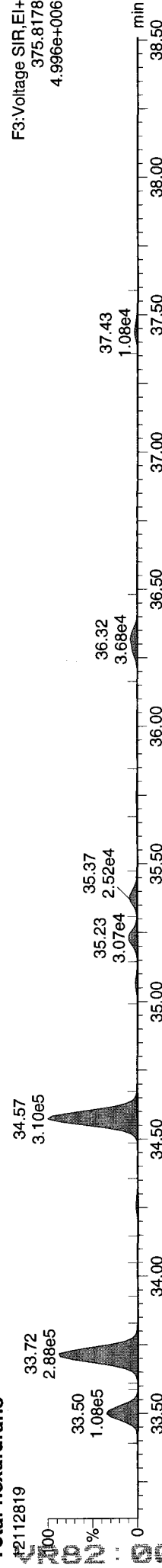
13C-234678-HxCDF



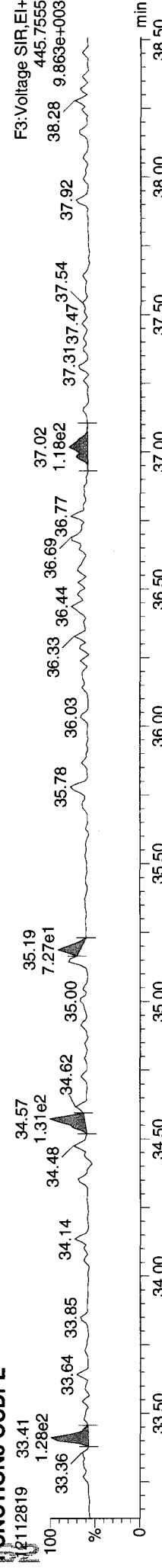
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



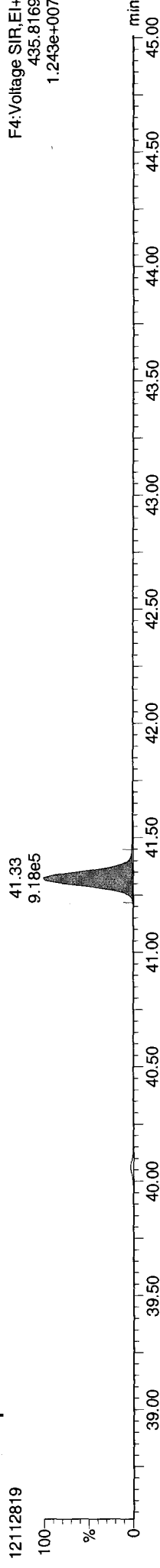
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

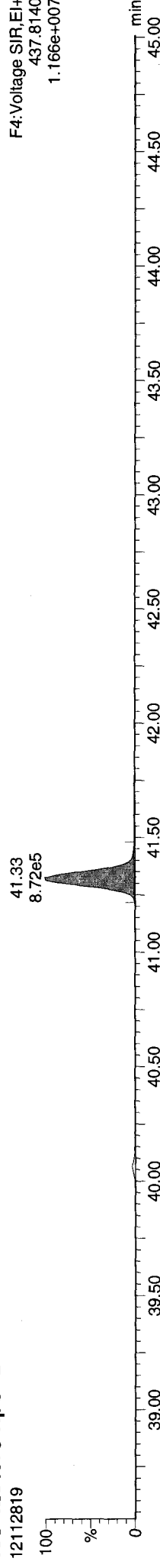
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

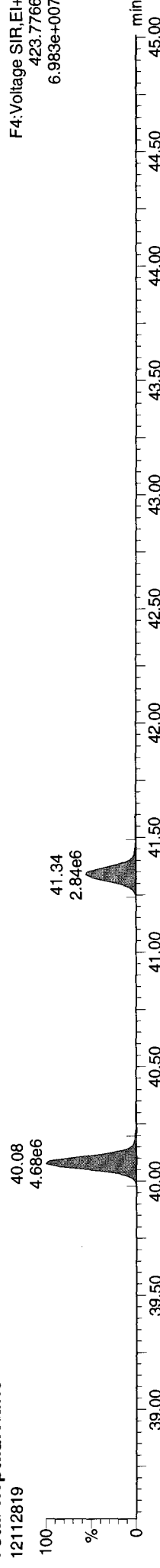
13C-1234678-HpCDD



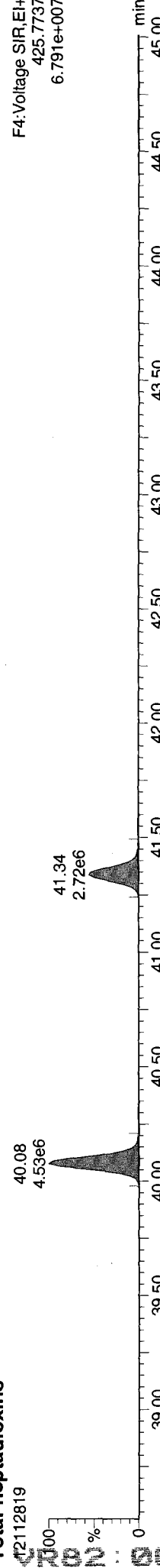
13C-1234678-HpCDD



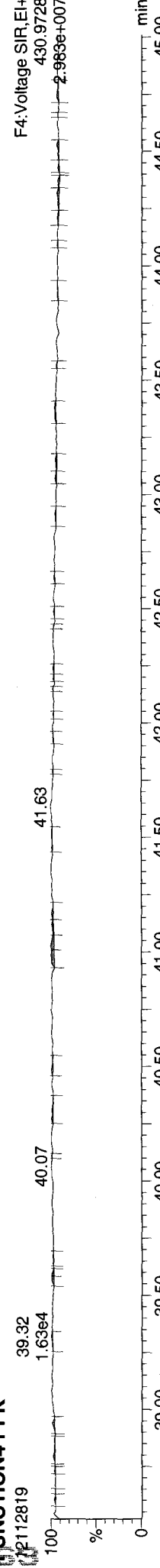
Total-heptadioxins



Total-heptadioxins



JUNCTION4 PFK



F4: Voltage SIR, EI+
435.8169
1.243e+007

F4: Voltage SIR, EI+
437.8140
1.166e+007

F4: Voltage SIR, EI+
423.7766
6.983e+007

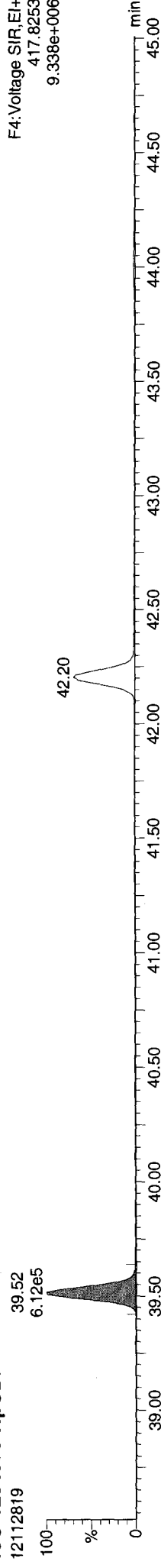
F4: Voltage SIR, EI+
425.7737
6.791e+007

F4: Voltage SIR, EI+
430.9728
2.969e+007

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

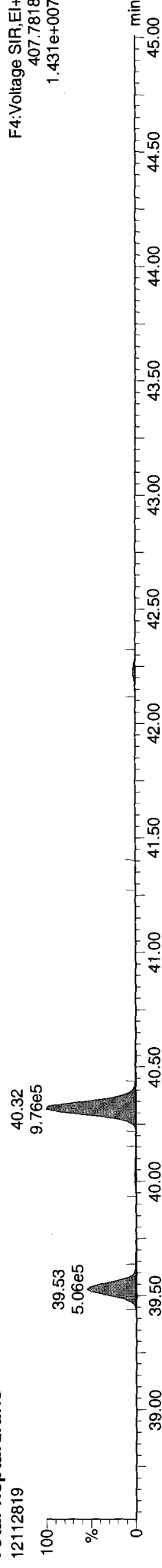
13C-1234678-HpCDF



13C-1234678-HpCDF



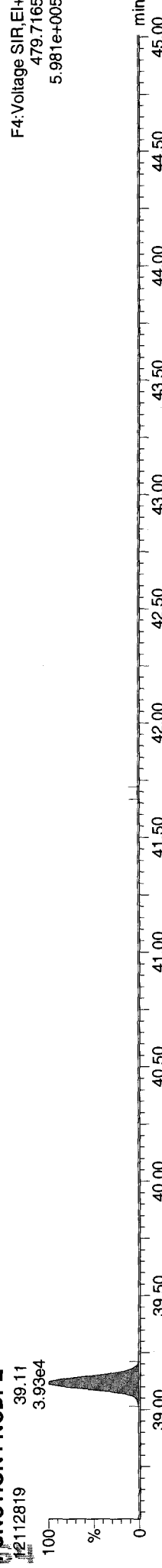
Total-heptafurans



Total-heptafurans



JUNCTION4 NCDPE



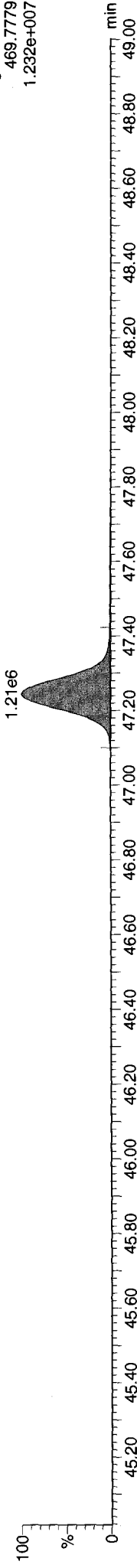
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

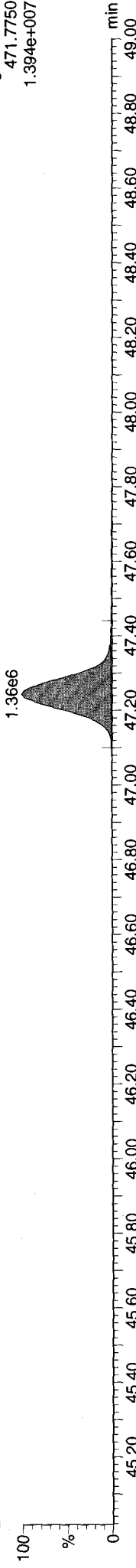
13C-OCDD

12112819



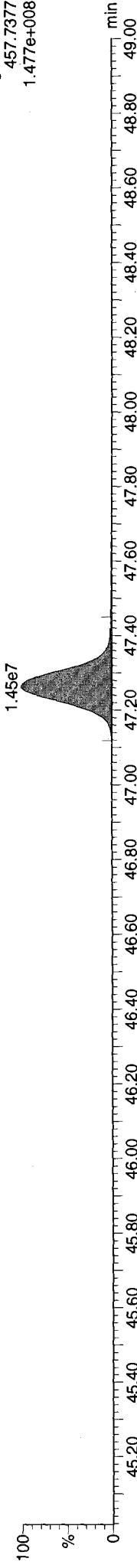
13C-OCDD

12112819



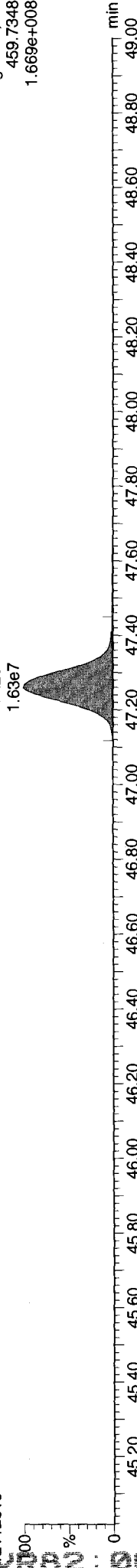
OCDD

12112819



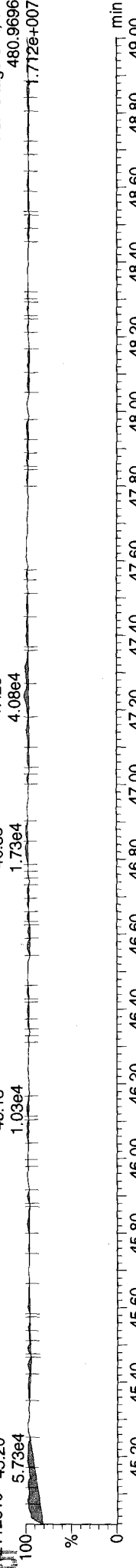
OCDD

12112819



FUNCTIONS PFK

12112819

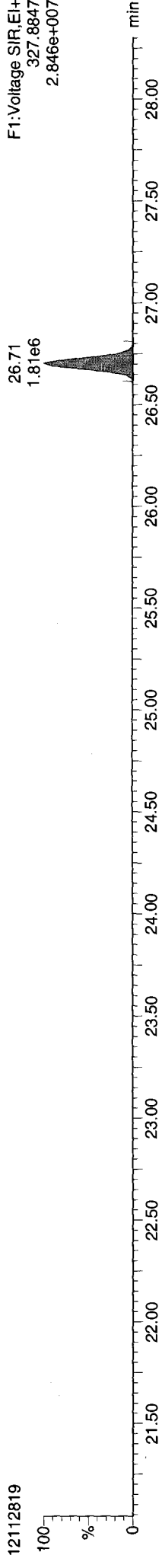


Quantify Sample Report MassLynx 4.1 SCN 714

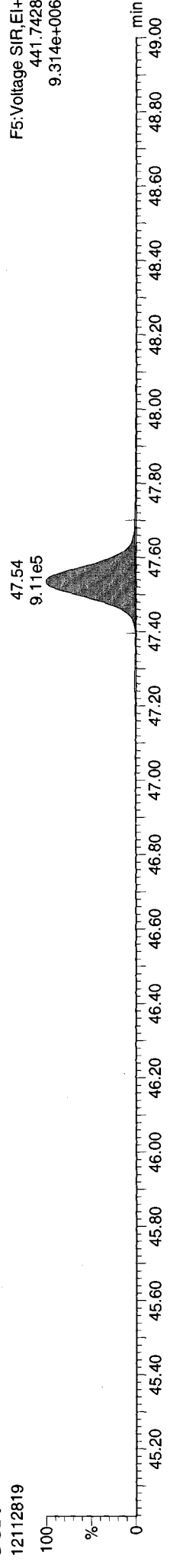
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:38:19 Pacific Standard Time

Name: 12112819, Date: 29-Nov-2012, Time: 01:43:02, ID: VR82B, Conditions: AUTOSPEC01, User: pk

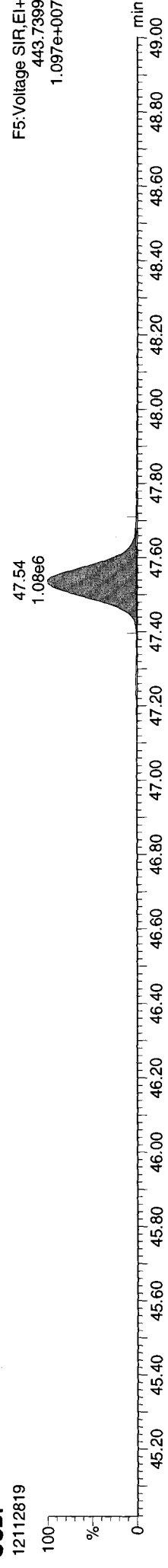
37CL-2378-TCDD



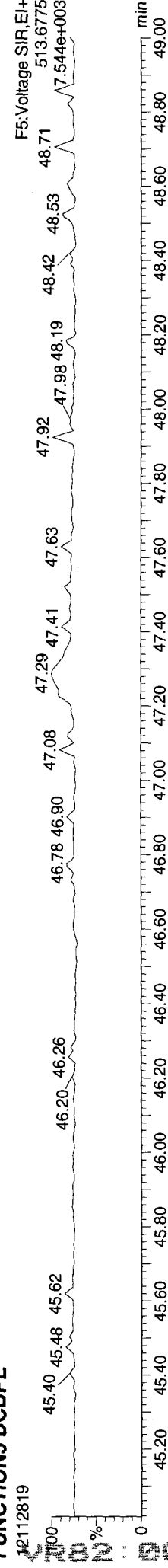
OCDF



OCDF

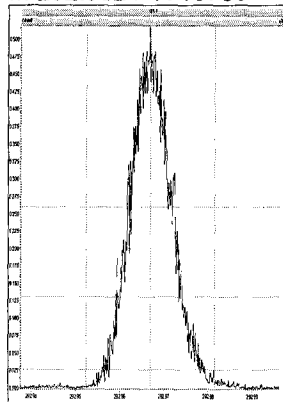


FUNCTION5 DCDPE

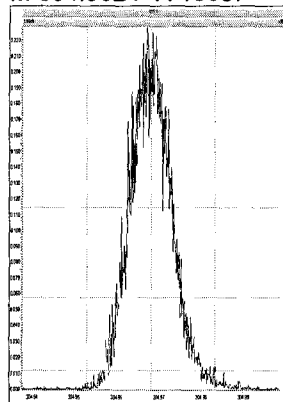


12112819

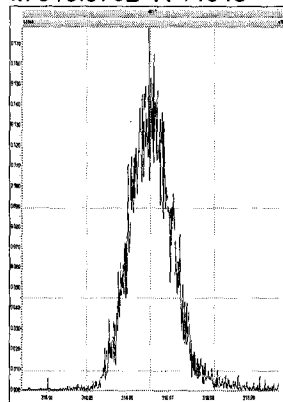
M 292.9824 R 13786



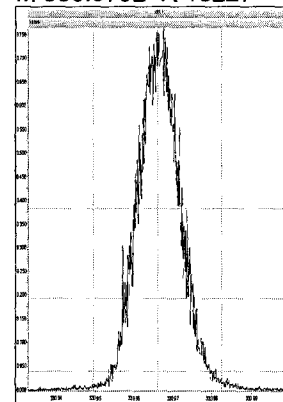
M 304.9824 R 13667



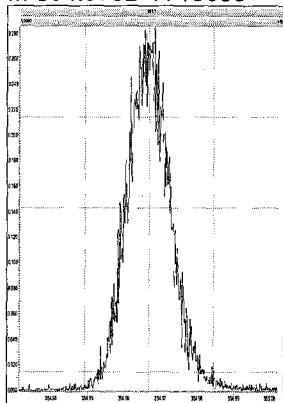
M 318.9792 R 14045



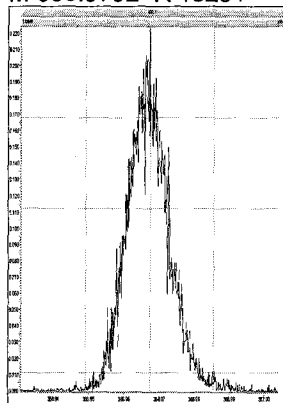
M 330.9792 R 13227



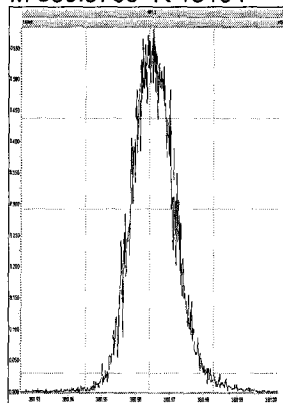
M 354.9792 R 13855



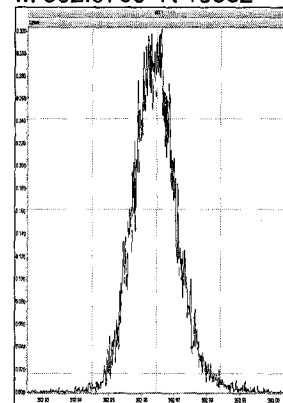
M 366.9792 R 13251



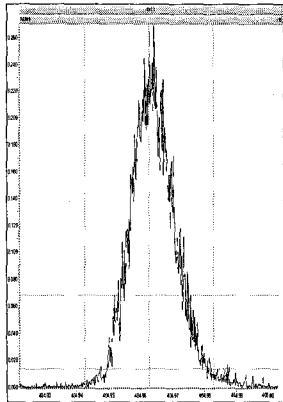
M 380.9760 R 13194



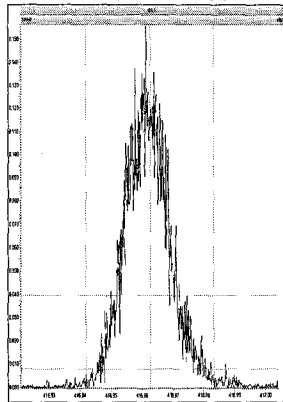
M 392.9760 R 13662



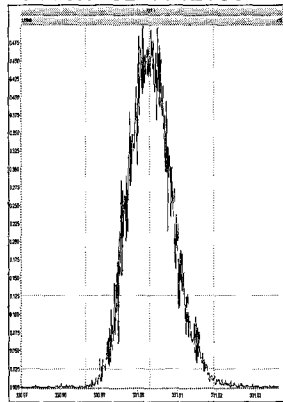
M 404.9760 R 12986



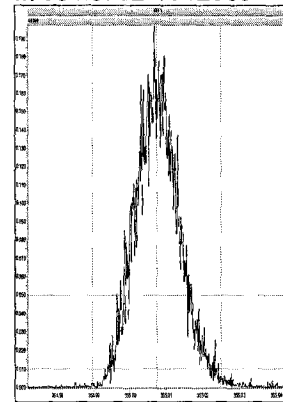
M 416.9760 R 14885



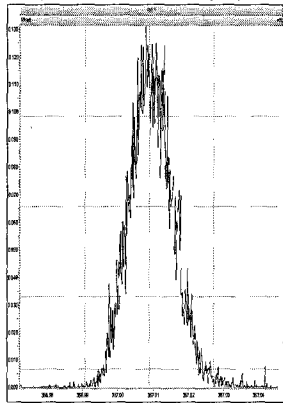
M 330.9792 R 12600



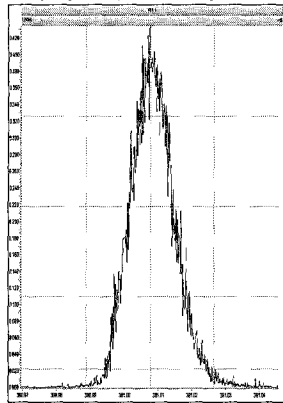
M 354.9792 R 12889



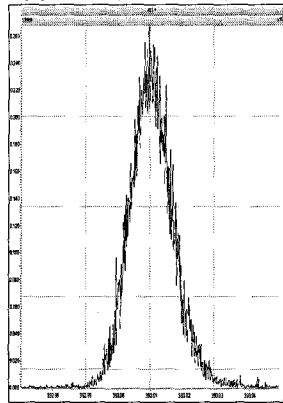
M 366.9792 R 14089



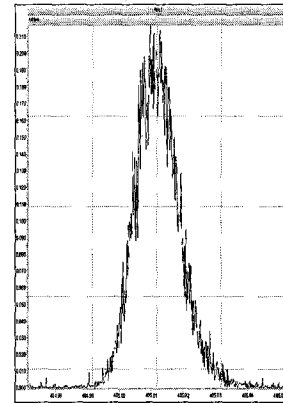
M 380.9760 R 13399



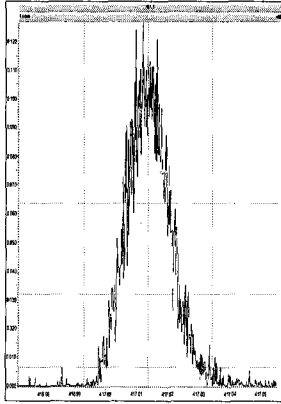
M 392.9760 R 13333



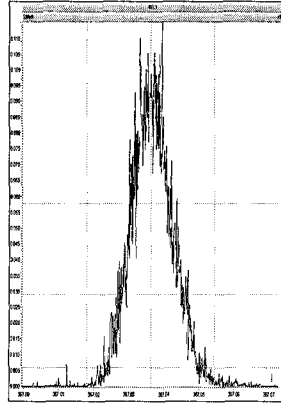
M 404.9760 R 13125



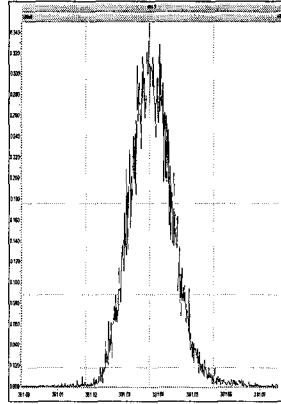
M 416.9760 R 13762



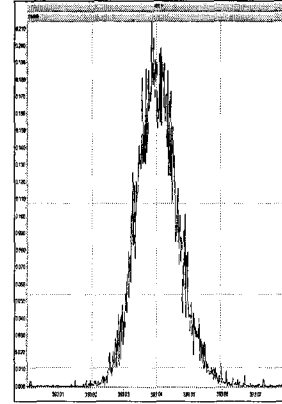
M 366.9792 R 14037



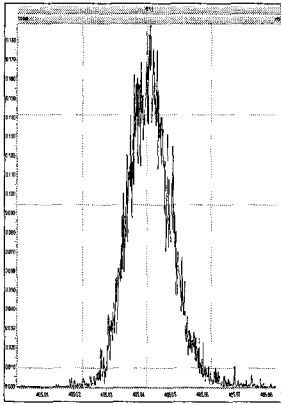
M 380.9760 R 13661



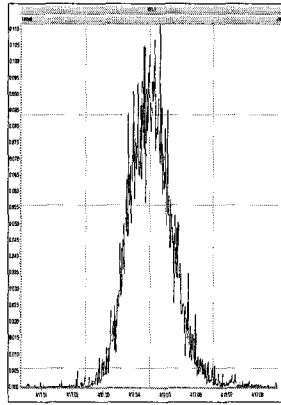
M 392.9760 R 14183



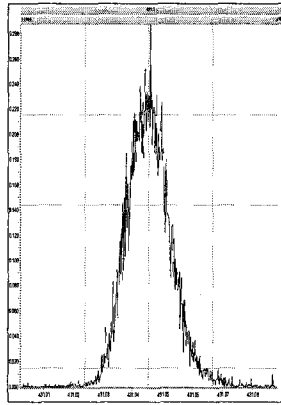
M 404.9760 R 13301



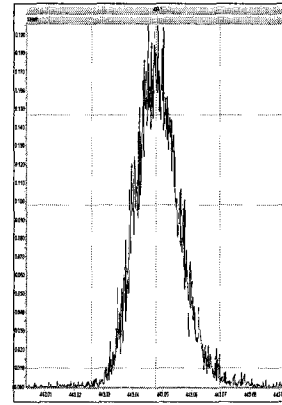
M 416.9760 R 14534



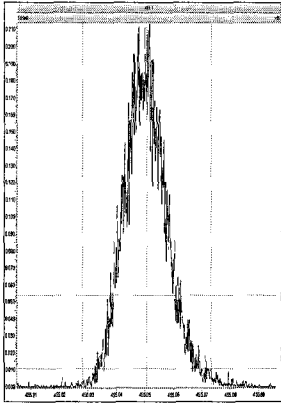
M 430.9728 R 13706



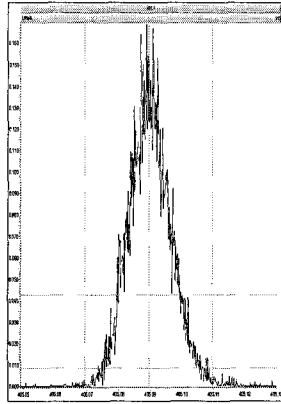
M 442.9728 R 14145



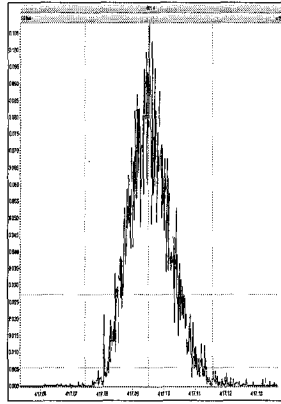
M 454.9728 R 13444



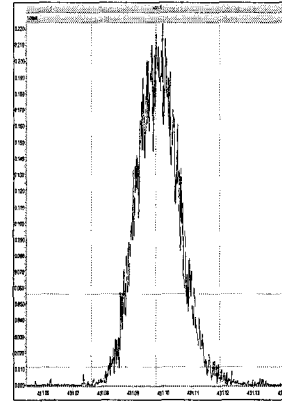
M 404.9760 R 13899



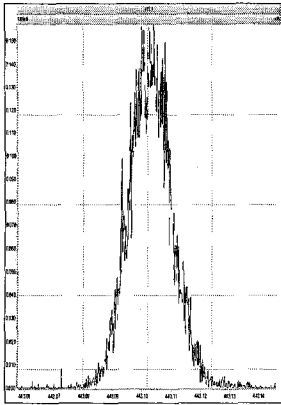
M 416.9760 R 15112



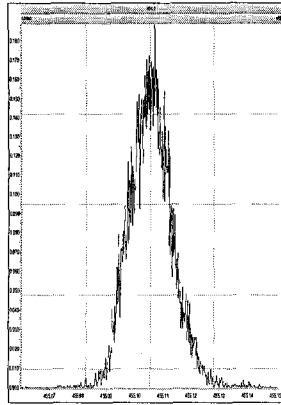
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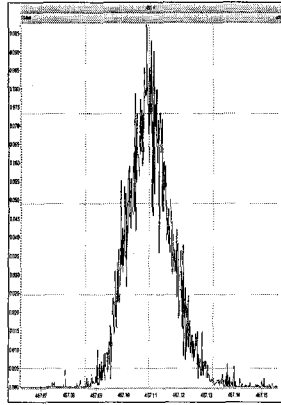
M 442.9728 R 13404



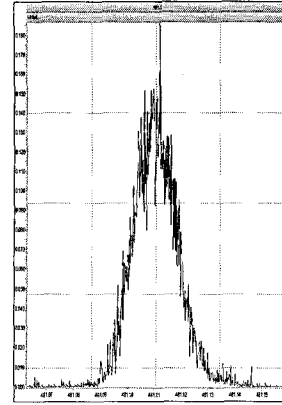
M 454.9728 R 13333



M 466.9728 R 14009

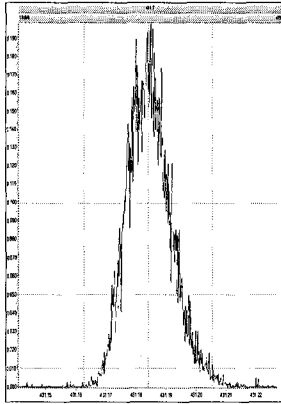


M 480.9696 R 13930

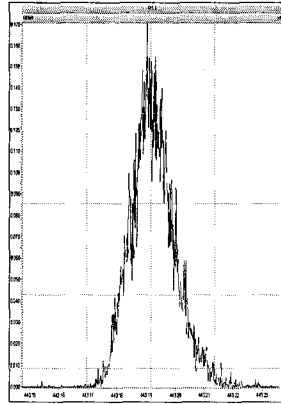


Printed: Thursday, November 29, 2012 03:35:33 Pacific Standard Time

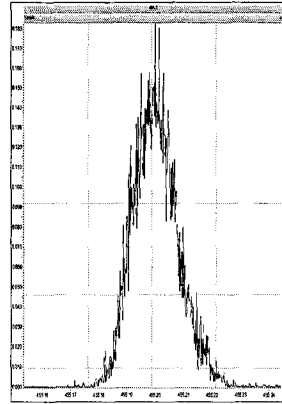
M 430.9728 R 13240



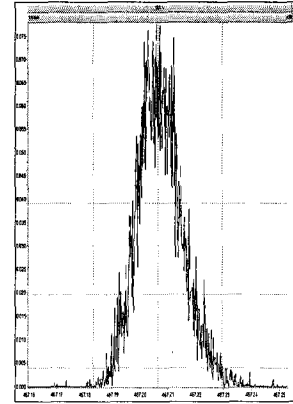
M 442.9728 R 12755



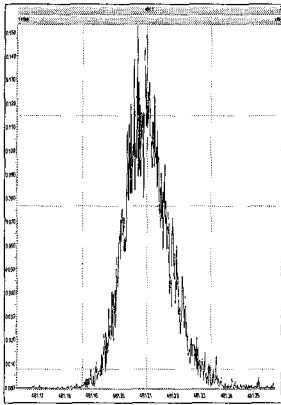
M 454.9728 R 13194



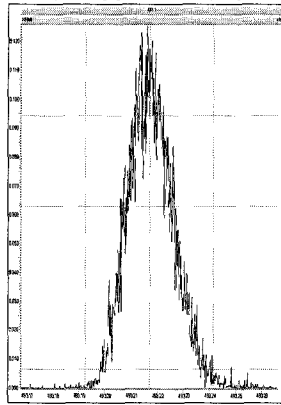
M 466.9728 R 13233



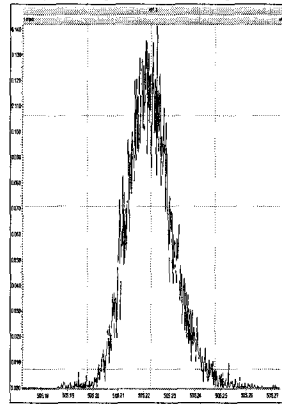
M 480.9696 R 13459



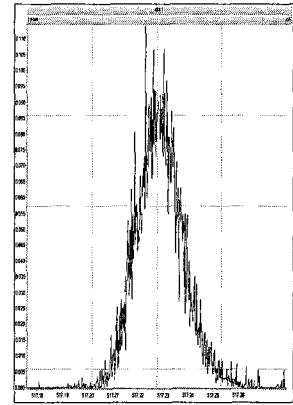
M 492.9696 R 12920



M 504.9696 R 13680



M 516.9697 R 12828



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

	Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	EMPC1	EMPC2	pg
1	2378-TCDF	26.063	1.001	2.51e5	3.46e5	0.877	0.725	0.770	1965.1	NO	9.790	9.790
2	12378-PeCDF	30.212	1.001	1.40e6	9.39e5	0.896	1.493	1.550	6436.3	NO	49.792	49.792
3	23478-PeCDF	31.550	1.000	1.42e6	9.65e5	0.926	1.472	1.550	6510.0	NO	49.197	49.197
4	123478-HxCDF	35.233	1.001	1.26e6	1.05e6	1.068	1.195	1.240	4613.9	NO	49.874	49.874
5	234678-HxCDF	36.318	1.000	1.25e6	1.05e6	1.037	1.191	1.240	4399.6	NO	50.005	50.005
6	123678-HxCDF	35.375	1.000	1.26e6	1.07e6	1.035	1.171	1.240	4574.2	NO	50.064	50.064
7	123789-HxCDF	37.469	1.001	1.07e6	8.97e5	0.987	1.197	1.240	3922.0	NO	50.616	50.616
8	1234678-HpCDF	39.530	1.001	1.08e6	1.08e6	1.232	0.994	1.050	5570.4	NO	48.860	48.860
9	1234789-HpCDF	42.227	1.001	8.63e5	8.69e5	1.215	0.993	1.050	3775.4	NO	49.694	49.694
10	OCDF	47.521	1.006	1.32e6	1.53e6	1.138	0.861	0.890	2777.4	NO	98.677	98.677
11	2378-TCDD	26.706	1.001	1.96e5	2.52e5	1.049	0.777	0.770	1392.9	NO	9.851	9.851
12	12378-PeCDD	31.813	1.001	1.03e6	6.65e5	0.998	1.547	1.550	5322.4	NO	49.552	49.552
13	123478-HxCDD	36.461	1.001	9.64e5	7.70e5	0.971	1.252	1.240	3726.9	NO	50.631	50.631
14	123678-HxCDD	36.592	1.001	9.25e5	7.46e5	0.918	1.240	1.240	3463.3	NO	49.728	49.728
15	123789-HxCDD	37.020	1.012	9.36e5	7.58e5	0.932	1.235	1.240	3529.0	NO	50.541	50.541
16	1234678-HpCDD	41.339	1.000	7.66e5	7.36e5	1.017	1.040	1.050	4050.0	NO	48.842	48.842
17	OCDD	47.252	1.000	1.20e6	1.35e6	1.008	0.889	0.890	4611.5	NO	99.187	99.187
18	13C-2378-TCDF	26.049	1.006	3.05e6	3.89e6	1.473	0.784	0.770	17469.7	NO	105.569	105.569
19	13C-12378-PeCDF	30.190	1.166	3.20e6	2.04e6	1.148	1.569	1.550	9016.7	NO	102.292	102.292
20	13C-23478-PeCDF	31.539	1.218	3.19e6	2.05e6	1.113	1.558	1.550	9127.3	NO	105.287	105.287
21	13C-123478-HxCDF	35.211	0.952	1.47e6	2.86e6	1.209	0.514	0.510	4353.0	NO	99.449	99.449
22	13C-123678-HxCDF	35.364	0.956	1.55e6	2.96e6	1.269	0.523	0.510	4528.3	NO	98.558	98.558
23	13C-234678-HxCDF	36.307	0.981	1.52e6	2.92e6	1.236	0.519	0.510	4371.9	NO	99.690	99.690
24	13C-123789-HxCDF	37.447	1.012	1.35e6	2.59e6	1.107	0.521	0.510	4013.0	NO	98.903	98.903
25	13C-1234678-HpCDF	39.508	1.068	1.11e6	2.48e6	1.051	0.449	0.440	7337.2	NO	94.766	94.766
26	13C-1234789-HpCDF	42.205	1.141	8.85e5	1.98e6	0.815	0.446	0.440	4978.9	NO	97.691	97.691
27	13C-1234-TCDD	25.884	0.000	1.95e6	2.52e6	1.000	0.776	0.770	8849.7	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.031	1.90e6	2.44e6	0.946	0.778	0.770	8641.3	NO	102.601	102.601
29	13C-12378-PeCDD	31.791	1.228	2.09e6	1.33e6	0.721	1.573	1.550	14347.7	NO	106.391	106.391
30	13C-123478-HxCDD	36.439	0.985	1.96e6	1.56e6	0.991	1.255	1.240	11802.2	NO	98.793	98.793
31	13C-123678-HxCDD	36.570	0.988	2.03e6	1.63e6	1.025	1.242	1.240	11978.9	NO	99.061	99.061
32	13C-1234678-HpCDD	41.328	1.117	1.54e6	1.49e6	0.866	1.031	1.050	7808.6	NO	96.887	96.887
33	13C-OCDD	47.235	1.277	2.39e6	2.69e6	0.769	0.889	0.890	9934.6	NO	183.372	183.372

Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
 Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
 Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

	Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	EMPC?	EMPC	pg
34	13C-123789-HxCDD	36.998	0.000	1.99e6	1.61e6	1.000	1.239	1.240	11828.4	NO		100.000
35	Total-tetrafurans			7.76e5		0.877					30.253	30.127
36	Total-penta1			1.92e6							65.898	65.898
37	Total-pentafurans			4.30e6		0.911					151.234	151.142
38	Total-hexafurans			6.20e6		1.032					256.946	256.869
39	Total-heptafurans			1.94e6		1.223					98.691	98.553
40	Total-Furans			1.65e7		1.041					701.718	701.266
41	Total-tetradiioxins			1.08e6		1.049					54.623	54.511
42	Total-pentadiioxins			3.57e6		0.998					171.633	171.566
43	Total-hexadiioxins			3.99e6		0.940					214.002	212.938
44	Total-heptadiioxins			1.66e6		1.017					105.283	105.267
45	Total-Dioxins			1.65e7		0.985					701.718	701.266
46	Total-TEQ			3.29e7							1403.437	1402.533
47	37CL-2378-TCDD	26.706	1.032	4.80e5		1.044			3716.9			10.299
48	FUNCTION1 PFK			8.47e5								0.000
49	FUNCTION2 PFK			3.98e4								0.000
50	FUNCTION3 PFK			8.25e6								0.000
51	FUNCTION4 PFK			1.79e5								0.000
52	FUNCTION5 PFK			2.72e5								0.000
53	FUNCTION1 HXCDPE			4.15e2								0.000
54	FUNCTION1 HPCDPE			6.78e2								0.000
55	FUNCTION2 HPCDPE			2.31e3								0.000
56	FUNCTION3 OGDPE			0.00e0								0.000
57	FUNCTION4 NCDPE			8.59e1								0.000
58	FUNCTION5 DCDPE			0.00e0								0.000

12112820 : 000074

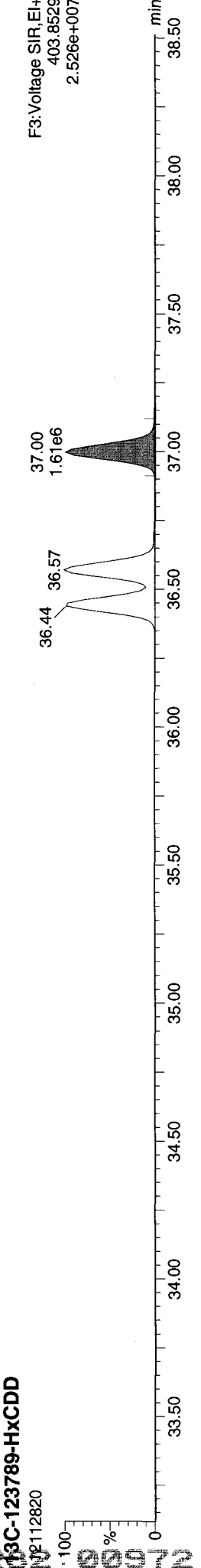
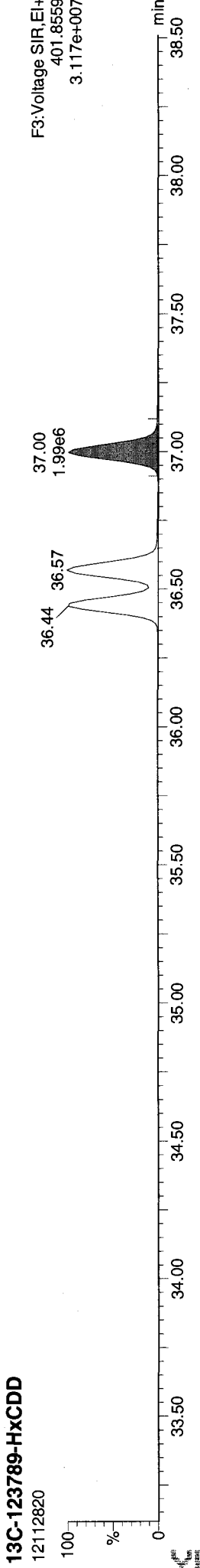
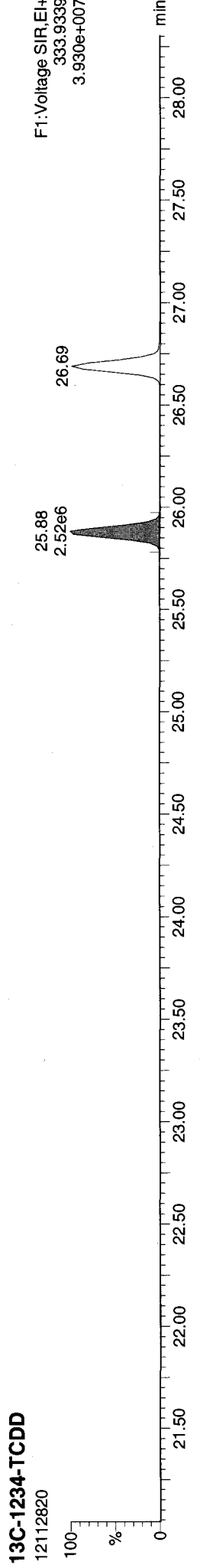
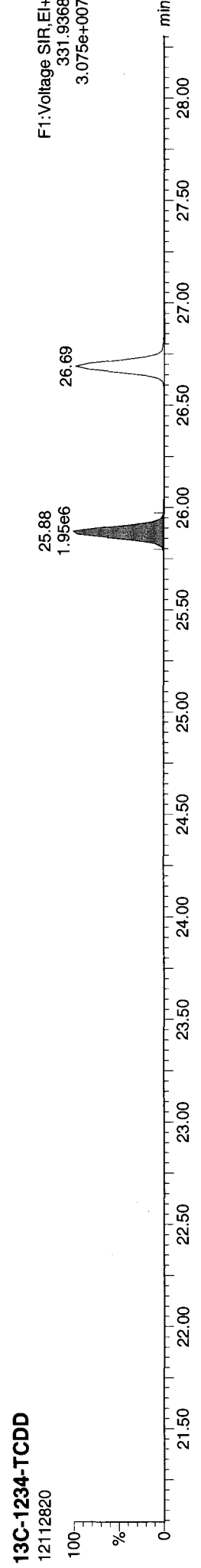
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Method: P:\DIOXIN8290.PROMethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk



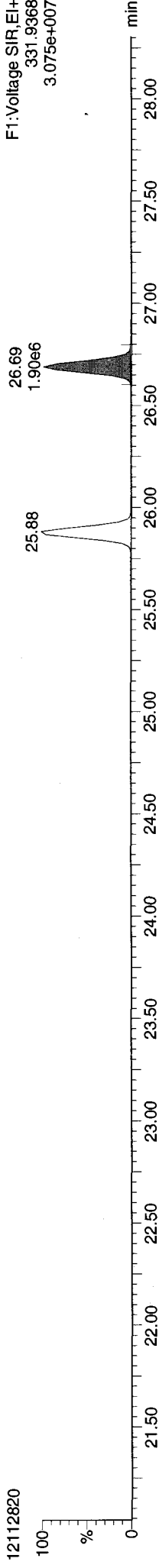
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Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

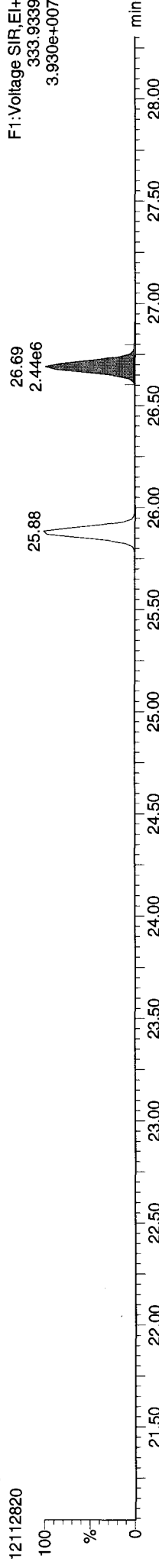
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

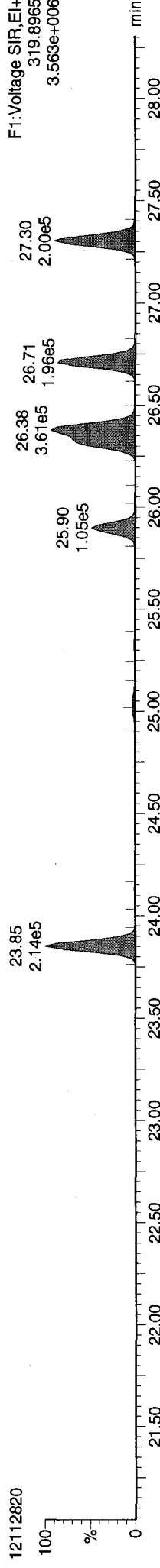
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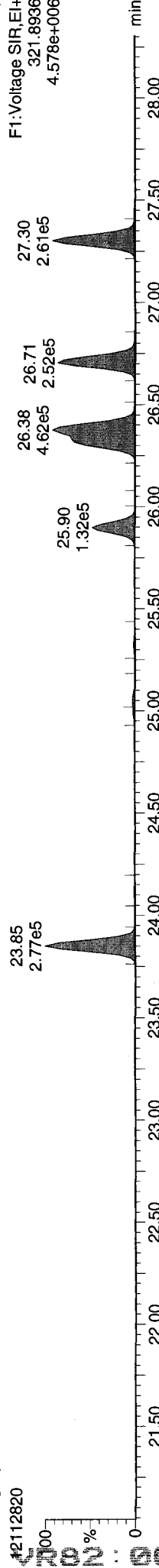
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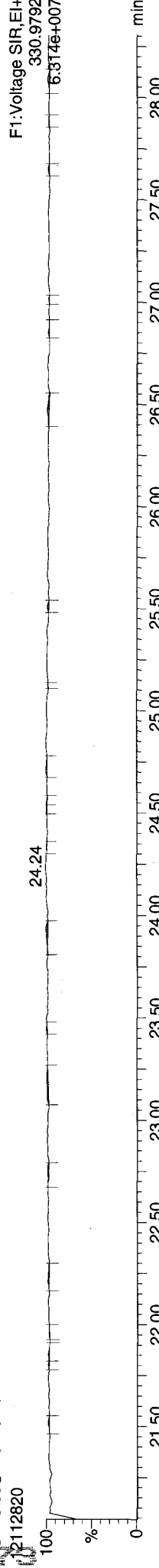
Total-tetradoxins



Total-tetradoxins



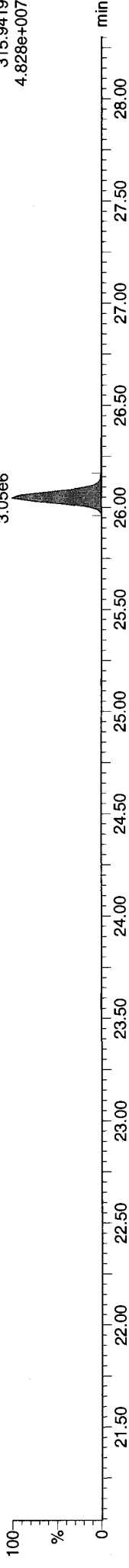
FUNCTION1 PFK



Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

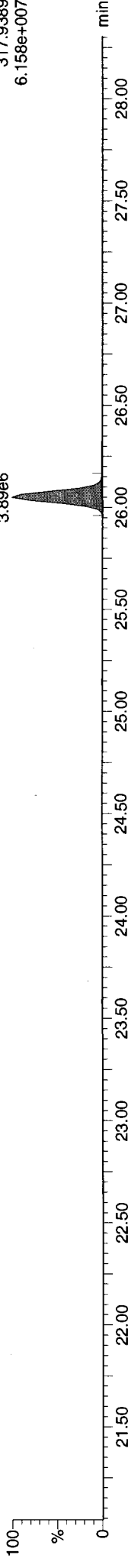
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12112820



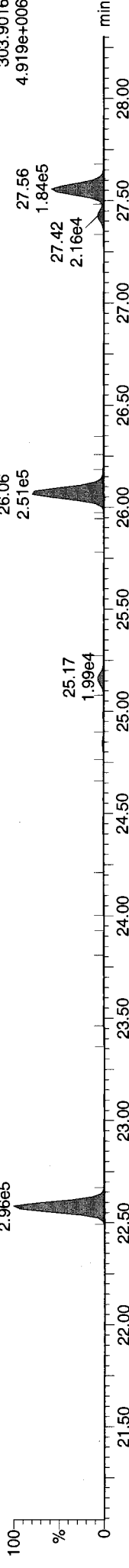
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12112820



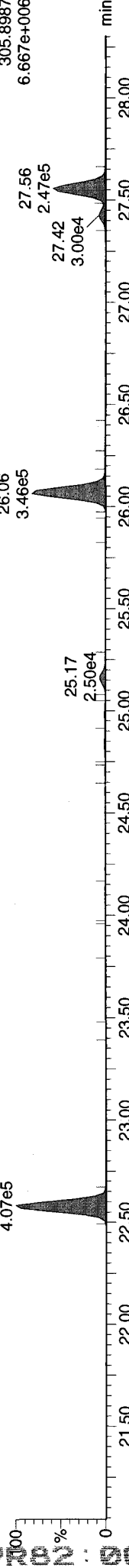
Total-tetrafurans

12112820



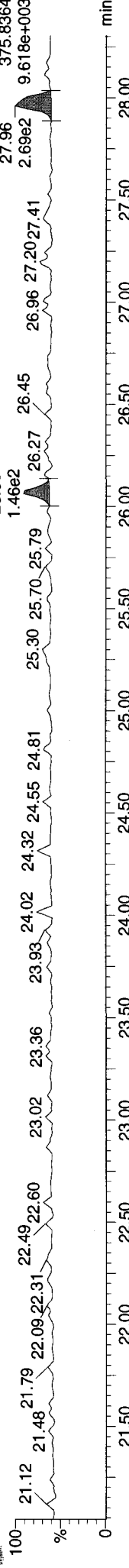
Total-tetrafurans

12112820



FUNCTION1 HXCDFE

12112820



Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD

12112820

100
%
0

31.79
2.09e6



F2: Voltage SIR, EI+
367.8949
3.366e+007

min
33.00
32.75
32.50
32.25
32.00
31.75
31.50
31.25
31.00
30.75
30.50
30.25
30.00
29.75
29.50
29.25
29.00
28.75
28.50

13C-12378-PeCDD

12112820

100
%
0

31.79
1.33e6



F2: Voltage SIR, EI+
369.8919
2.134e+007

min
33.00
32.75
32.50
32.25
32.00
31.75
31.50
31.25
31.00
30.75
30.50
30.25
30.00
29.75
29.50
29.25
29.00
28.75
28.50

Total-pentadioxins

12112820

100
%
0

29.09
1.41e6



F2: Voltage SIR, EI+
355.8546
1.760e+007

min
33.00
32.75
32.50
32.25
32.00
31.75
31.50
31.25
31.00
30.75
30.50
30.25
30.00
29.75
29.50
29.25
29.00
28.75
28.50

Total-pentadioxins

12112820

100
%
0

29.09
9.06e5



F2: Voltage SIR, EI+
357.8516
1.139e+007

min
33.00
32.75
32.50
32.25
32.00
31.75
31.50
31.25
31.00
30.75
30.50
30.25
30.00
29.75
29.50
29.25
29.00
28.75
28.50

FUNCTION2 PFK

12112820

100
%
0

31.55
3.52e4



F2: Voltage SIR, EI+
366.9792
1.279e+007

min
33.00
32.75
32.50
32.25
32.00
31.75
31.50
31.25
31.00
30.75
30.50
30.25
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28.50

30.14

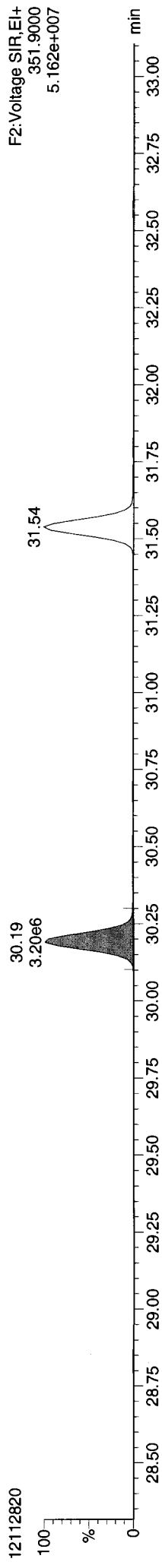
31.03

32.11

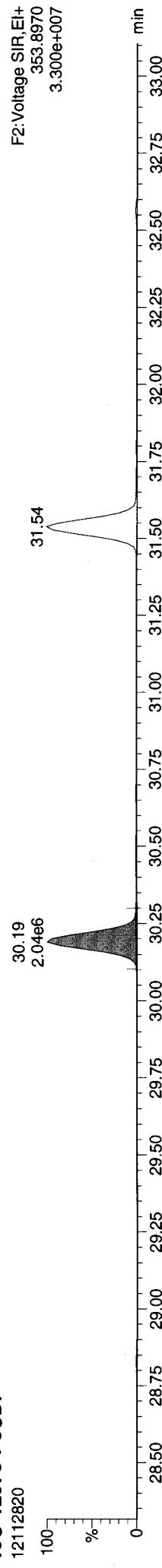
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Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

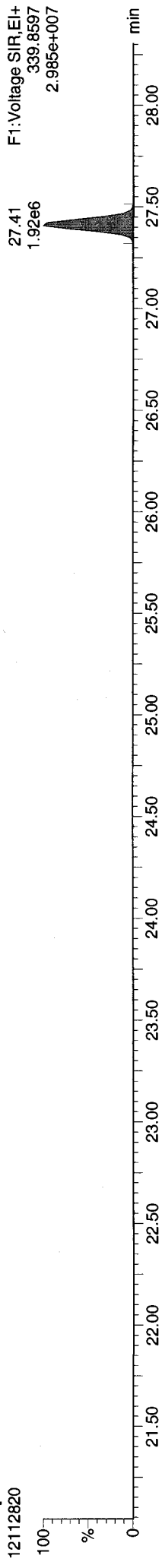
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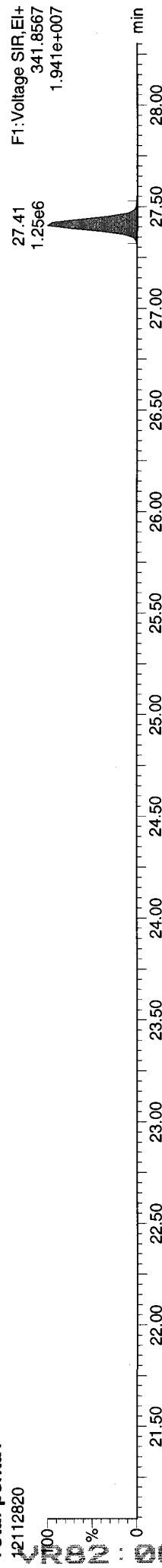
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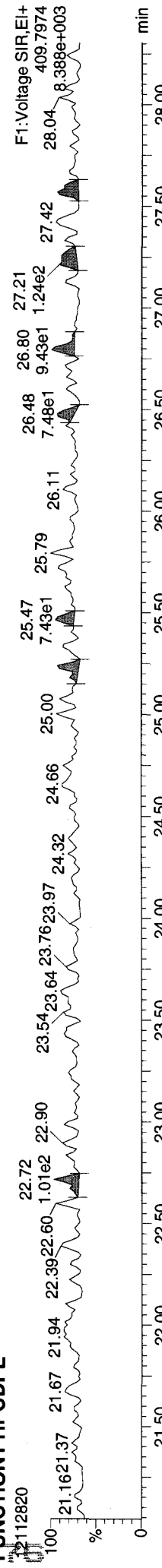
Total-pental



Total-pental



FUNCTION1 HPCDPE

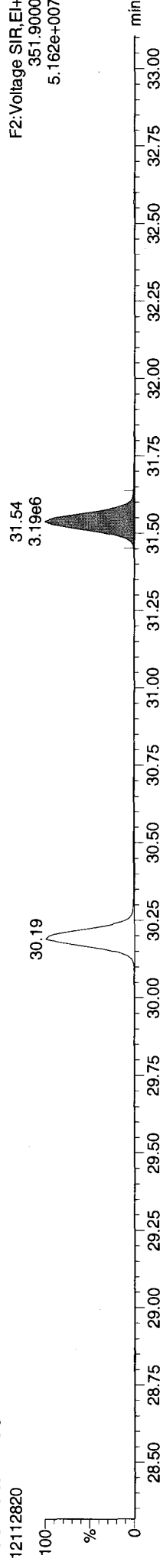


Quantify Sample Report MassLynx 4.1 SCN 714

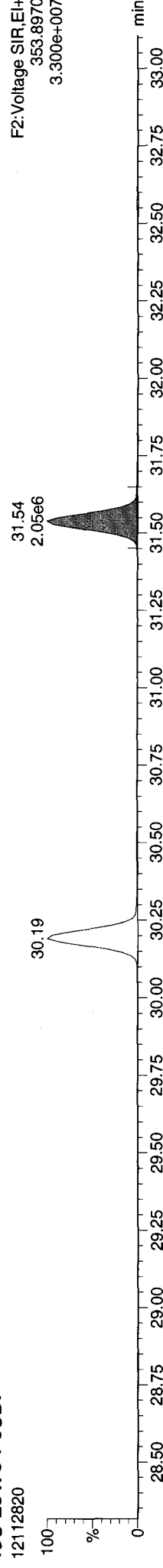
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

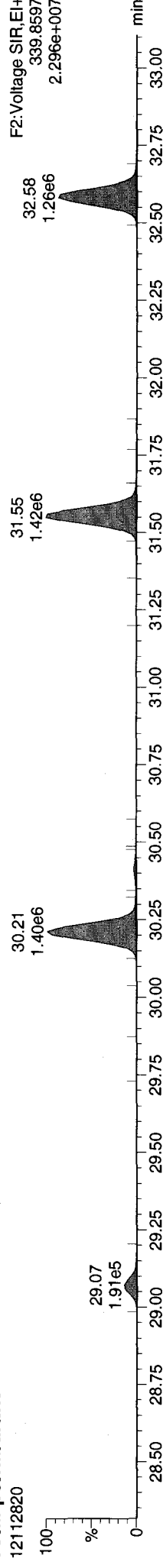
13C-23478-PeCDF



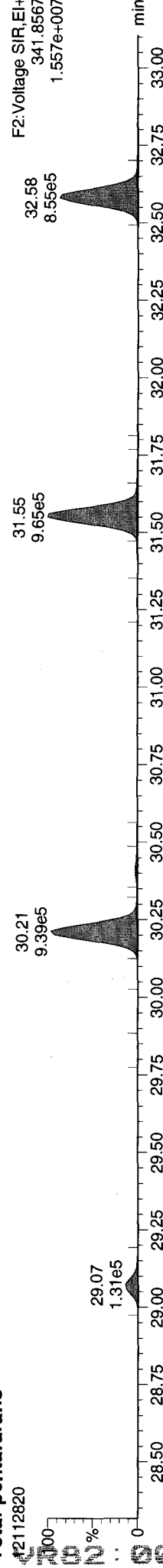
13C-23478-PeCDF



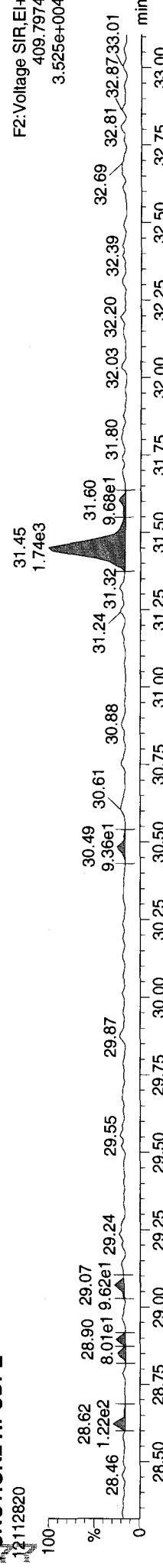
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDFE



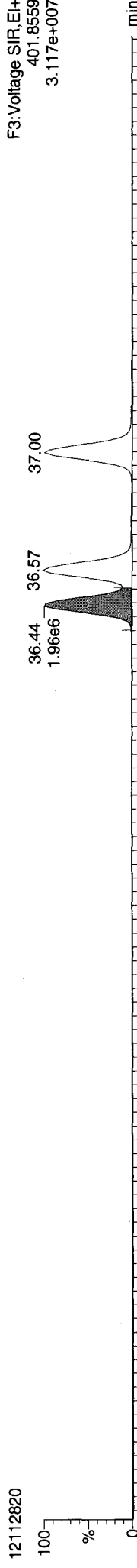
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

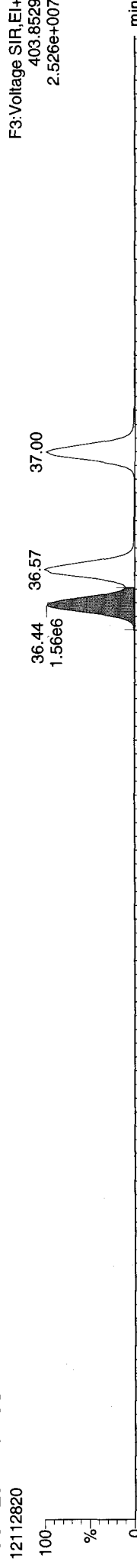
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

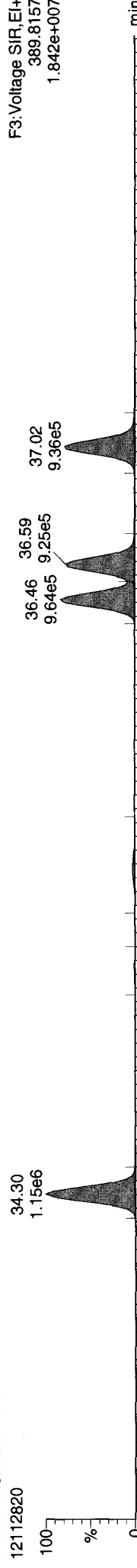
13C-123478-HxCDD



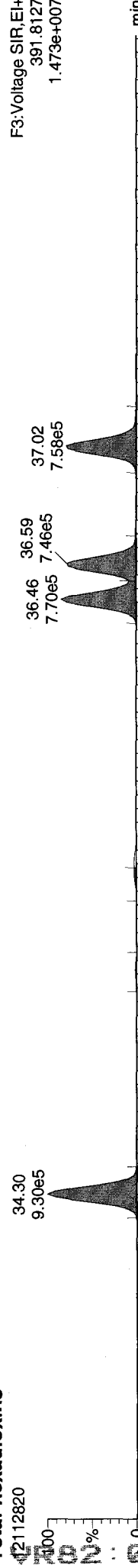
13C-123478-HxCDD



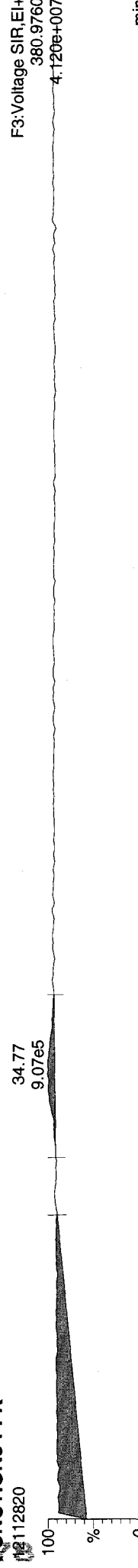
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



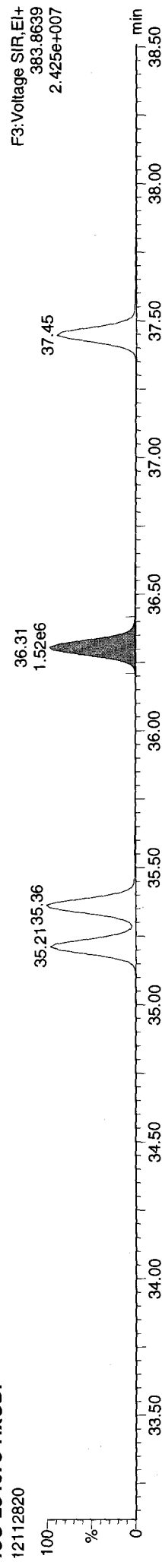
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

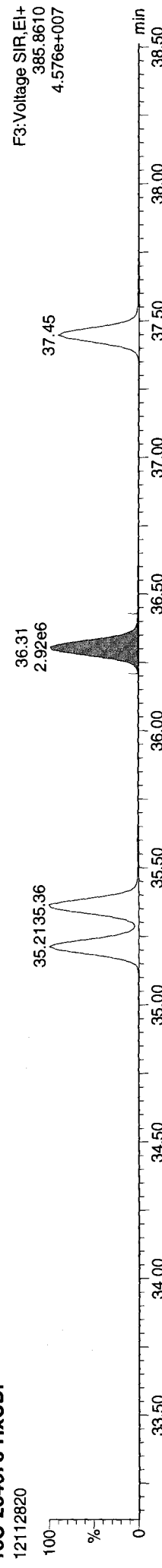
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

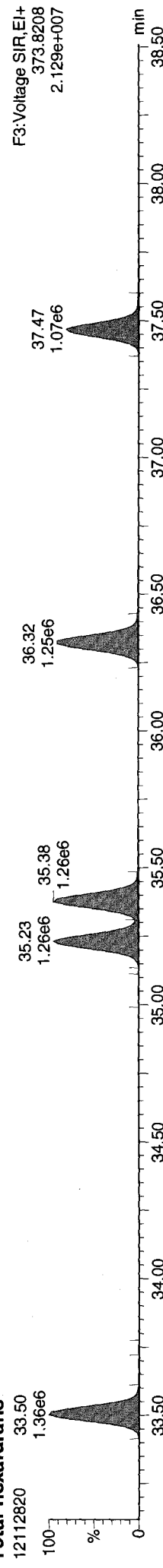
13C-234678-HxCDF



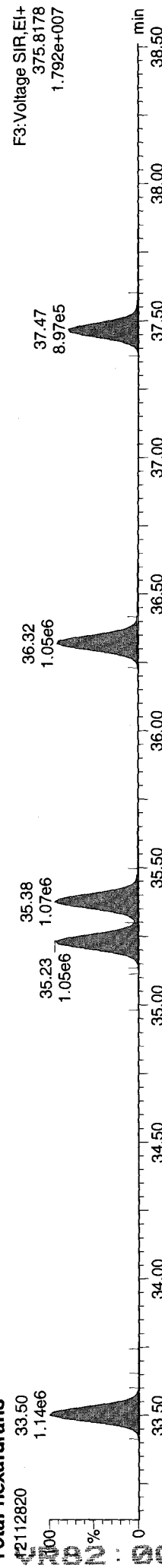
13C-234678-HxCDF



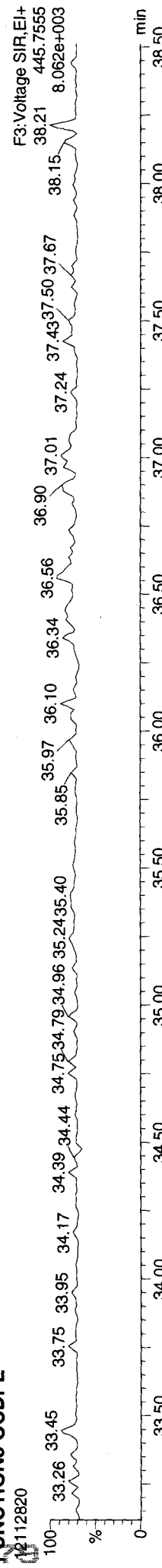
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



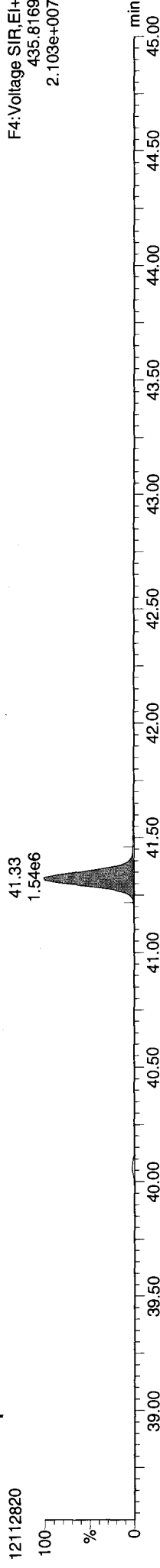
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld

Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time

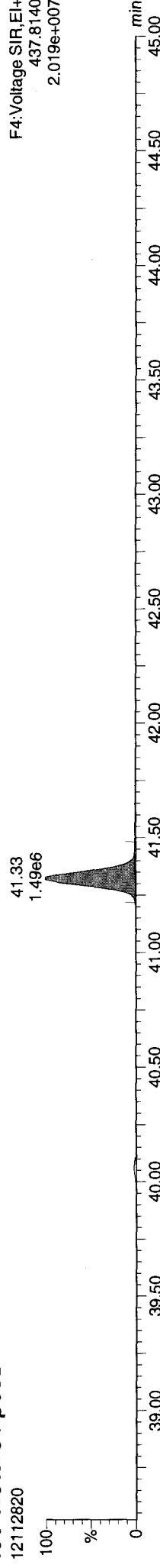
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

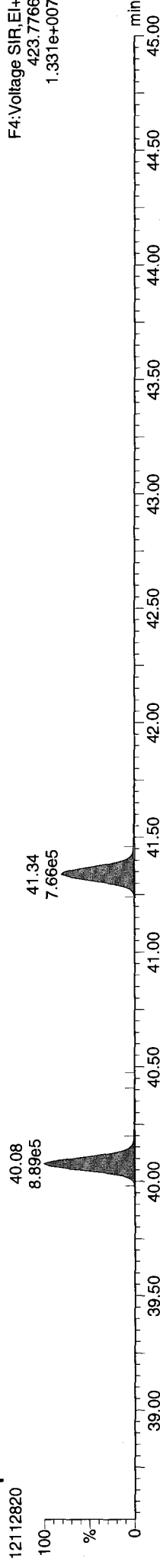
13C-1234678-HpCDD



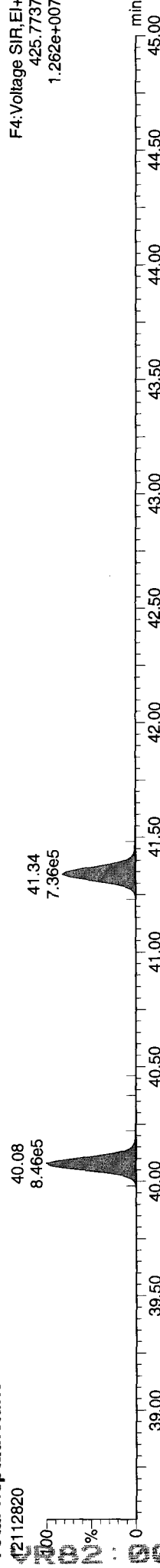
13C-1234678-HpCDD



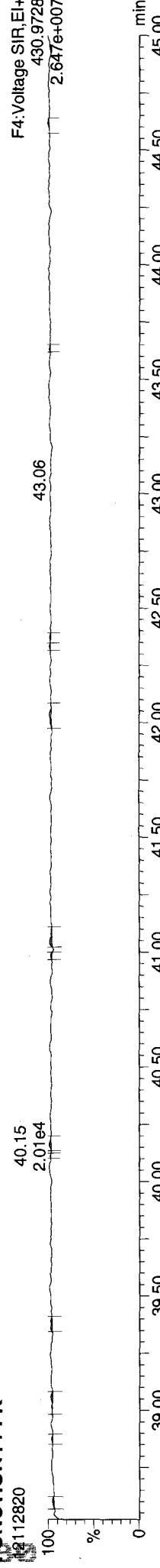
Total-heptadioxins



Total-heptadioxins

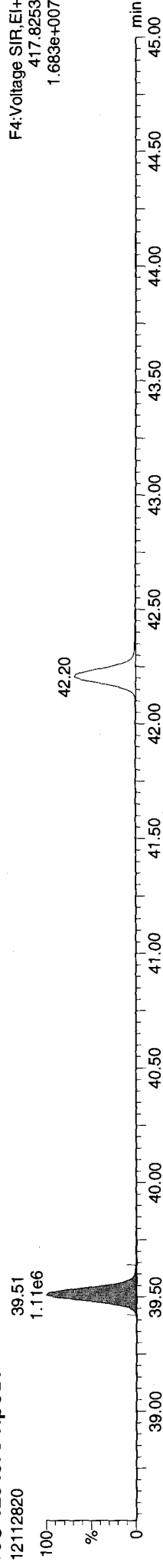


FUNCTION4 PFK



Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

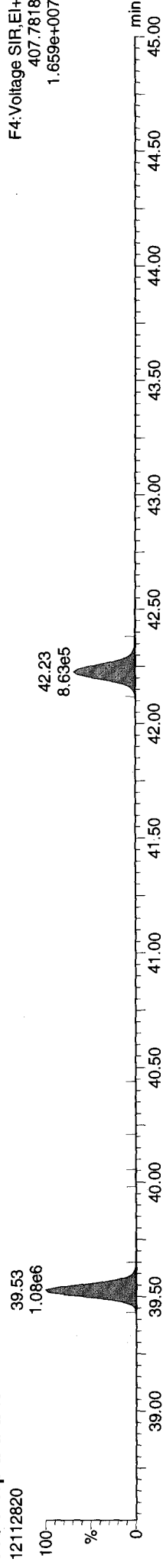
13C-1234678-HpCDF



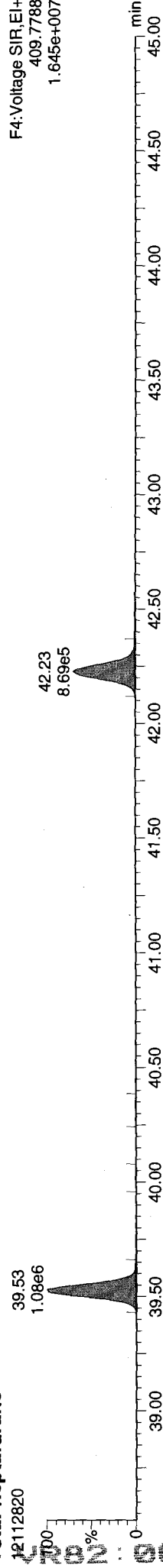
13C-1234678-HpCDF



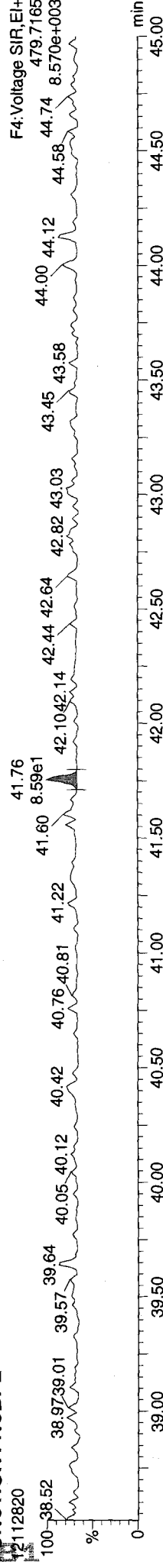
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

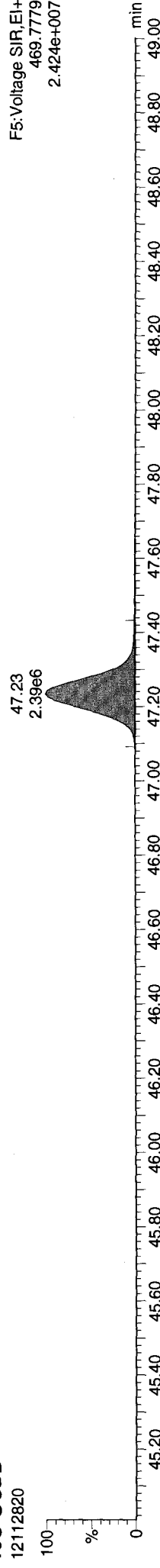


Quantify Sample Report MassLynx 4.1 SCN 714

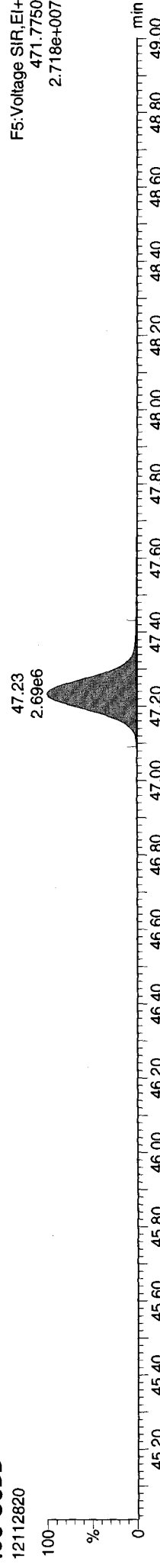
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

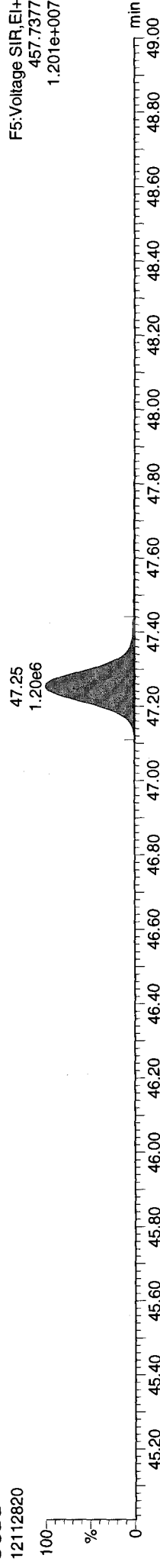
13C-OCDD
12112820



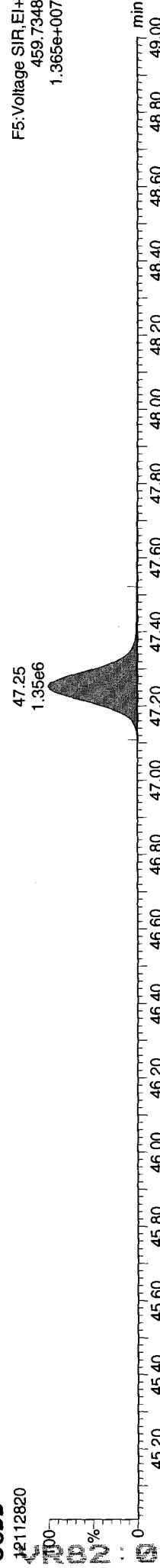
13C-OCDD
12112820



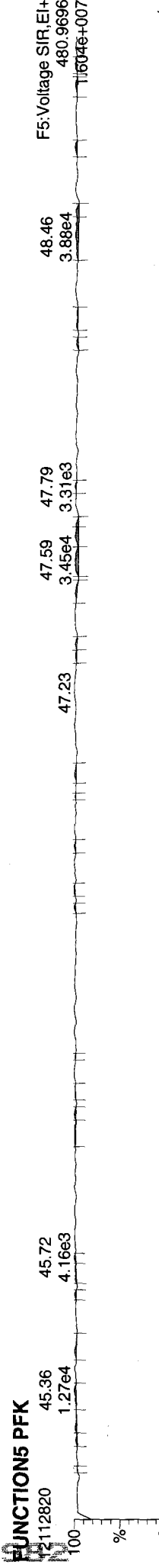
OCDD
12112820



OCDD
12112820



FUNCTION5 PFK
12112820

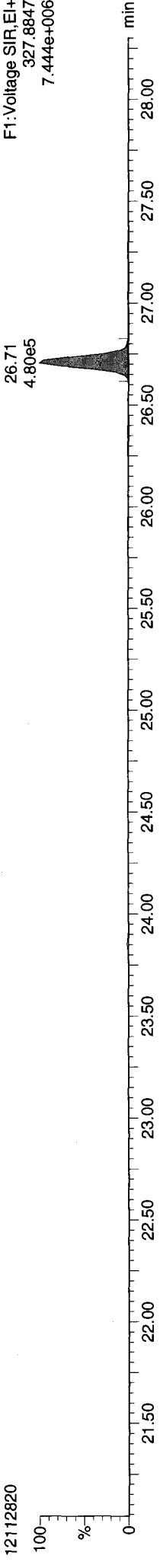


Quantify Sample Report MassLynx 4.1 SCN 714

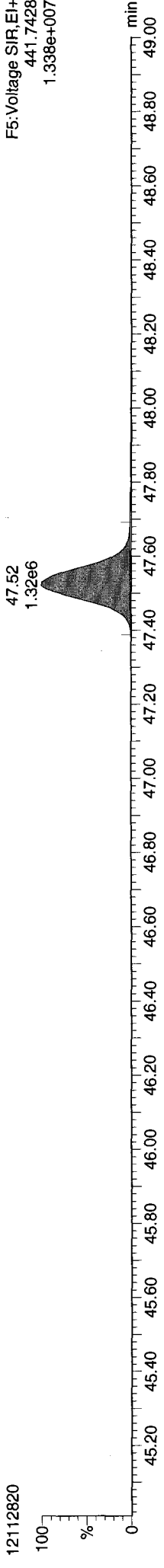
Dataset: P:\DIOXIN8290.PRO\121128DATA2.qld
Last Altered: Monday, December 10, 2012 15:27:44 Pacific Standard Time
Printed: Monday, December 10, 2012 15:28:45 Pacific Standard Time

Name: 12112820, Date: 29-Nov-2012, Time: 02:35:10, ID: CS3, Conditions: AUTOSPEC01, User: pk

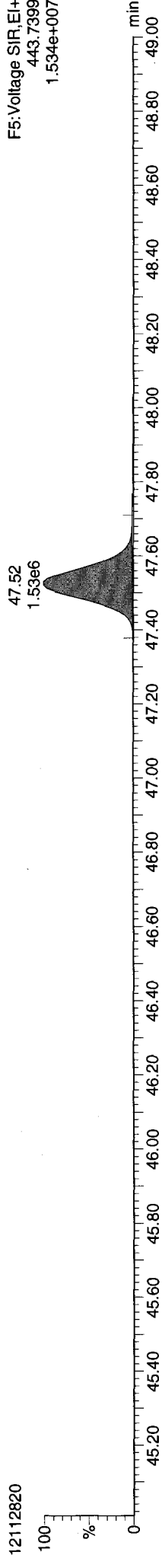
37CL-2378-TCDD



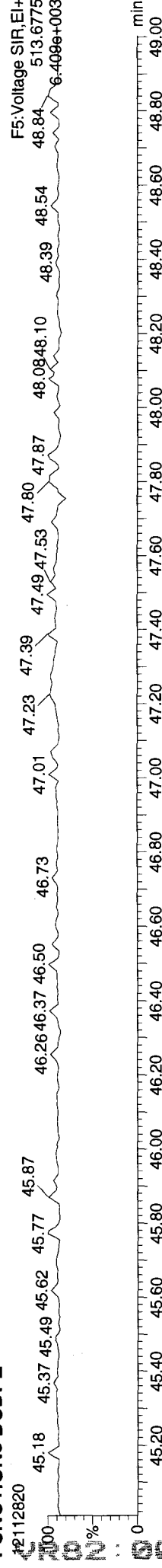
OCDF



OCDF



FUNCTION5 DCDPE



OCDF



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Method: P:\DIOXIN8290.PROMethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC
1	2378-TCDF	26.093	1.001	1.11e3	2.11e3	0.877	0.523	8.5	1685	3848	1.44e4	3.36e4	YES		0.069
2	12378-PeCDF	30.222	1.000	1.71e3	1.14e3	0.896	1.493	18.4	1271	2302	2.34e4	2.06e4	NO		0.082
3	23478-PeCDF	31.581	1.001	1.23e3	1.02e3	0.926	1.207	19.2	1271	2302	2.44e4	1.45e4	YES		0.058
4	123478-HxCDF	35.254	1.001	2.39e3	1.88e3	1.068	1.270	35.8	1122	864	4.02e4	3.38e4	NO		0.145
5	234678-HxCDF	36.328	1.000	2.31e3	2.66e3	1.037	0.871	21.1	1122	864	2.37e4	3.30e4	YES		0.152
6	123678-HxCDF	35.407	1.001	2.18e3	1.76e3	1.035	1.234	36.3	1122	864	4.08e4	2.67e4	NO		0.131
7	123789-HxCDF	37.468	1.000	1.34e3	1.36e3	0.987	0.981	15.7	1122	864	1.77e4	1.68e4	YES		0.084
8	1234678-HpCDF	39.539	1.000	2.97e4	3.15e4	1.232	0.942	386.5	1139	796	4.40e5	4.63e5	NO		2.203
9	1234789-HpCDF	42.236	1.000	1.63e3	1.82e3	1.215	0.898	22.7	1139	796	2.59e4	2.35e4	NO		0.158
10	OCDF	47.539	1.006	4.02e4	4.82e4	1.138	0.836	257.2	1540	1037	3.96e5	4.59e5	NO		5.425
11	2378-TCDD	26.735	1.001	5.62e2	1.88e3	1.049	0.298	9.8	1042	1132	1.02e4	2.84e4	YES		0.040
12	12378-PeCDD	31.845	1.001	2.75e3	1.91e3	0.998	1.436	14.8	2137	1068	3.17e4	2.58e4	NO		0.191
13	123478-HxCDD	36.492	1.001	2.83e3	2.64e3	0.971	1.070	31.2	1622	1217	5.07e4	4.50e4	NO		0.246
14	123678-HxCDD	36.613	1.000	1.03e4	7.61e3	0.918	1.360	88.5	1622	1217	1.44e5	1.18e5	NO		0.813
15	123789-HxCDD	37.040	1.012	5.42e3	4.43e3	0.932	1.224	53.1	1622	1217	8.62e4	6.94e4	NO		0.450
16	1234678-HpCDD	41.348	1.000	2.11e5	2.02e5	1.017	1.049	995.9	2913	2967	2.90e6	2.74e6	NO		20.335
17	OCDD	47.270	1.000	1.05e6	1.18e6	1.008	0.886	6665.0	1602	1599	1.07e7	1.18e7	NO		154.036
18	13C-2378-TCDF	26.078	1.007	1.85e6	2.37e6	1.473	0.780	6942.3	4084	1858	2.84e7	3.64e7	NO		74.237
19	13C-12378-PeCDF	30.211	1.167	2.37e6	1.52e6	1.148	1.565	11805.7	3245	2314	3.83e7	2.45e7	NO		88.008
20	13C-23478-PeCDF	31.560	1.219	2.31e6	1.47e6	1.113	1.576	11186.6	3245	2314	3.63e7	2.32e7	NO		88.242
21	13C-123478-HxCDF	35.232	0.952	9.36e5	1.81e6	1.209	0.516	4754.3	3018	3754	1.43e7	2.79e7	NO		82.885
22	13C-123678-HxCDF	35.374	0.956	9.95e5	1.91e6	1.269	0.520	4985.2	3018	3754	1.50e7	2.95e7	NO		83.575
23	13C-234678-HxCDF	36.328	0.981	9.08e5	1.74e6	1.236	0.523	4641.4	3018	3754	1.40e7	2.66e7	NO		77.952
24	13C-123789-HxCDF	37.457	1.012	1.01e6	1.93e6	1.107	0.522	5014.6	3018	3754	1.51e7	2.92e7	NO		96.487
25	13C-1234678-HpCDF	39.528	1.068	7.01e5	1.56e6	1.051	0.450	3808.6	2752	3198	1.05e7	2.31e7	NO		78.258
26	13C-1234789-HpCDF	42.225	1.141	5.60e5	1.24e6	0.815	0.451	2687.5	2752	3198	7.40e6	1.63e7	NO		80.619
27	13C-1234-TCDD	25.899	0.000	1.69e6	2.16e6	1.000	0.784	8023.1	3444	2513	2.76e7	3.51e7	NO		100.000
28	13C-2378-TCDD	26.705	1.031	1.36e6	1.74e6	0.946	0.783	6277.8	3444	2513	2.16e7	2.76e7	NO		85.099
29	13C-12378-PeCDD	31.812	1.228	1.49e6	9.52e5	0.721	1.566	12802.5	1846	893	2.36e7	1.48e7	NO		88.014
30	13C-123478-HxCDD	36.470	0.985	1.28e6	1.01e6	0.991	1.263	8118.2	2449	2448	1.99e7	1.57e7	NO		84.327
31	13C-123678-HxCDD	36.602	0.989	1.34e6	1.07e6	1.025	1.254	8361.5	2449	2448	2.05e7	1.63e7	NO		85.484
32	13C-1234678-HpCDD	41.337	1.117	1.02e6	9.78e5	0.866	1.043	3902.7	3606	3146	1.41e7	1.34e7	NO		84.031
33	13C-OCDD	47.252	1.276	1.36e6	1.51e6	0.769	0.901	6696.9	2021	2288	1.35e7	1.53e7	NO		135.714

pk 12/11/12

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC	pg
34	13C-123789-HxCDD	37.018	0.000	1.52e6	1.22e6	1.000	1.243	9646.1	2449	2448	2.36e7	1.90e7	NO			100.000
35	Total-tetrafurans		7.37e3		0.877				1685		1.16e5		1.061			0.449
36	Total-penta1		2.02e4						582		3.02e5		0.945			0.945
37	Total-pentafurans		1.08e4		0.911				1271		1.42e5		0.815			0.517
38	Total-hexafurans		5.33e4		1.032				1122		8.38e5		3.702			3.402
39	Total-heptafurans		8.14e4		1.223				1139		1.18e6		6.548			6.508
40	Total-Furans		2.13e5		1.041				1685		2.97e6		18.496			17.246
41	Total-tetraioxins		1.59e3		1.049				1042		2.52e4		0.566			0.109
42	Total-pentadioxins		1.51e4		0.998				2137		1.90e5		1.260			1.010
43	Total-hexadioxins		9.74e4		0.940				1622		1.31e6		8.080			8.080
44	Total-heptadioxins		7.02e5		1.017				2913		1.01e7		67.417			67.417
45	Total-Dioxins		2.24e7		0.985				1042		3.13e8		18.496			17.246
46	Total-TEQ		2.26e7						1042		3.16e8		36.993			34.493
47	37CL-2378-TCDD	26.735	1.032	1.43e6		1.044		15158.5	1474		2.23e7					35.513
48	FUNCTION1 PFK		1.37e7						625492		8.75e7					0.000
49	FUNCTION2 PFK		1.36e5						163694		3.69e6					0.000
50	FUNCTION3 PFK		9.24e6						360932		6.13e7					0.000
51	FUNCTION4 PFK		4.55e5						278502		1.45e7					0.000
52	FUNCTION5 PFK		1.22e6						231765		2.67e7					0.000
53	FUNCTION1 HXCDPE		0.00e0						700		0.00e0					0.000
54	FUNCTION1 HPCDPE		9.58e2						914		1.83e4					0.000
55	FUNCTION2 HPCDPE		4.05e2						1076		1.34e4					0.000
56	FUNCTION3 OCDPE		0.00e0						467		0.00e0					0.000
57	FUNCTION4 NCDPE		2.58e3						506		3.87e4					0.000
58	FUNCTION5 DCDPE		0.00e0						267		0.00e0					0.000

12/11/2012 10:10:54

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
35	Total-tetrafurans	303.9016	24.75	2445.585	0.877	0.066	0.066	0.81	0.77	NO	10.0
35	Total-tetrafurans	303.9016	24.33	0.000	0.877	0.000	0.039	1.18	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.20	0.000	0.877	0.000	0.045	1.08	0.77	YES	8.4
35	Total-tetrafurans	303.9016	24.09	0.000	0.877	0.000	0.059	0.95	0.77	YES	11.1
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.025	0.43	0.77	YES	4.1
35	Total-tetrafurans	303.9016	23.85	0.000	0.877	0.000	0.078	0.95	0.77	YES	13.8
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.031	0.45	0.77	YES	5.7
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.037	0.49	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.57	0.000	0.877	0.000	0.010	0.52	0.77	YES	2.3
35	Total-tetrafurans	303.9016	23.43	7112.881	0.877	0.193	0.193	0.82	0.77	NO	30.0
35	Total-tetrafurans	303.9016	22.87	1337.921	0.877	0.036	0.036	0.84	0.77	NO	5.8
35	Total-tetrafurans	303.9016	22.60	0.000	0.877	0.000	0.029	1.12	0.77	YES	4.0
35	Total-tetrafurans	303.9016	27.51	0.000	0.877	0.000	0.023	0.52	0.77	YES	3.8
35	Total-tetrafurans	303.9016	26.32	0.000	0.877	0.000	0.071	0.58	0.77	YES	8.5
35	Total-tetrafurans	303.9016	26.24	0.000	0.877	0.000	0.021	0.62	0.77	YES	2.8
1	2378-TCDF	303.9016	26.09	3219.676	0.877	0.000	0.069	0.52	0.77	YES	8.5
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.018	0.51	0.77	YES	3.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.055	0.89	0.77	YES	7.9
35	Total-tetrafurans	303.9016	25.00	3711.134	0.877	0.101	0.101	0.78	0.77	NO	15.5
35	Total-tetrafurans	303.9016	24.85	1980.204	0.877	0.054	0.054	0.74	0.77	NO	7.3

PP

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
36	Total-penta1	339.8597	27.51	33255.756		0.945	0.945	1.56	1.55	NO	519.5

PF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
3	23478-PeCDF	339.8597	31.58	2255.322	0.926	0.000	0.058	1.21	1.55	YES	19.2
37	Total-pentafurans	339.8597	31.53	0.000	0.911	0.000	0.019	0.84	1.55	YES	9.5
37	Total-pentafurans	339.8597	31.42	2285.428	0.911	0.065	0.065	1.67	1.55	NO	14.2
37	Total-pentafurans	339.8597	31.31	0.000	0.911	0.000	0.024	1.05	1.55	YES	8.1
37	Total-pentafurans	339.8597	30.43	0.000	0.911	0.000	0.056	2.05	1.55	YES	19.1
2	12378-PeCDF	339.8597	30.22	2853.232	0.896	0.082	0.082	1.49	1.55	NO	18.4
37	Total-pentafurans	339.8597	29.87	4308.693	0.911	0.123	0.123	1.50	1.55	NO	22.1
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.020	1.06	1.55	YES	6.2
37	Total-pentafurans	339.8597	29.15	6354.740	0.911	0.182	0.182	1.42	1.55	NO	43.8
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.104	1.19	1.55	YES	30.1
37	Total-pentafurans	339.8597	28.98	2274.205	0.911	0.065	0.065	1.47	1.55	NO	12.9
37	Total-pentafurans	339.8597	32.61	0.000	0.911	0.000	0.018	0.91	1.55	YES	6.4

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HF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
38	Total-hexafurans	373.8208	33.73	37421.111	1.032	1.291	1.291	1.08	1.24	NO	269.8
38	Total-hexafurans	373.8208	33.52	13723.437	1.032	0.474	0.474	1.27	1.24	NO	99.7
7	123789-HxCDF	373.8208	37.47	2700.376	0.987	0.000	0.084	0.98	1.24	YES	15.7
5	234678-HxCDF	373.8208	36.33	4970.590	1.037	0.000	0.152	0.87	1.24	YES	21.1
6	123678-HxCDF	373.8208	35.41	3937.616	1.035	0.131	0.131	1.23	1.24	NO	36.3
4	123478-HxCDF	373.8208	35.25	4272.324	1.068	0.145	0.145	1.27	1.24	NO	35.8
38	Total-hexafurans	373.8208	35.06	0.000	1.032	0.000	0.030	1.02	1.24	YES	5.4
38	Total-hexafurans	373.8208	34.60	39416.019	1.032	1.360	1.360	1.22	1.24	NO	304.7
38	Total-hexafurans	373.8208	34.27	0.000	1.032	0.000	0.034	1.43	1.24	YES	9.1

HPF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
9	1234789-HpCDF	407.7818	42.24	3451.231	1.215	0.158	0.158	0.90	1.05	NO	22.7
39	Total-heptafurans	407.7818	40.33	103038.101	1.223	4.148	4.148	0.95	1.05	NO	624.0
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.040	1.65	1.05	YES	11.1
8	1234678-HpCDF	407.7818	39.54	61263.793	1.232	2.203	2.203	0.94	1.05	NO	386.5

Quantify Totals Report MassLynx 4.1 SCN 714

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	SN
35	Total-tetrafurans	303.9016	24.75	2445.585	0.877	0.066	0.066	0.81	0.77	NO	10.0
35	Total-tetrafurans	303.9016	24.33	0.000	0.877	0.000	0.039	1.18	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.20	0.000	0.877	0.000	0.045	1.08	0.77	YES	8.4
35	Total-tetrafurans	303.9016	24.09	0.000	0.877	0.000	0.059	0.95	0.77	YES	11.1
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.025	0.43	0.77	YES	4.1
35	Total-tetrafurans	303.9016	23.85	0.000	0.877	0.000	0.078	0.95	0.77	YES	13.8
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.031	0.45	0.77	YES	5.7
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.037	0.49	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.57	0.000	0.877	0.000	0.010	0.52	0.77	YES	2.3
35	Total-tetrafurans	303.9016	23.43	7112.881	0.877	0.193	0.193	0.82	0.77	NO	30.0
35	Total-tetrafurans	303.9016	22.87	1337.921	0.877	0.036	0.036	0.84	0.77	NO	5.8
35	Total-tetrafurans	303.9016	22.60	0.000	0.877	0.000	0.029	1.12	0.77	YES	4.0
35	Total-tetrafurans	303.9016	27.51	0.000	0.877	0.000	0.023	0.52	0.77	YES	3.8
35	Total-tetrafurans	303.9016	26.32	0.000	0.877	0.000	0.071	0.58	0.77	YES	8.5
35	Total-tetrafurans	303.9016	26.24	0.000	0.877	0.000	0.021	0.62	0.77	YES	2.8
1	2378-TCDF	303.9016	26.09	3219.676	0.877	0.000	0.069	0.52	0.77	YES	8.5
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.018	0.51	0.77	YES	3.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.055	0.89	0.77	YES	7.9
35	Total-tetrafurans	303.9016	25.00	3711.134	0.877	0.101	0.101	0.78	0.77	NO	15.5
35	Total-tetrafurans	303.9016	24.85	1980.204	0.877	0.054	0.054	0.74	0.77	NO	7.3
3	23478-PeCDF	339.8597	31.58	2255.322	0.926	0.000	0.058	1.21	1.55	YES	19.2
37	Total-pentafurans	339.8597	31.53	0.000	0.911	0.000	0.019	0.84	1.55	YES	9.5
37	Total-pentafurans	339.8597	31.42	2285.428	0.911	0.065	0.065	1.67	1.55	NO	14.2
37	Total-pentafurans	339.8597	31.31	0.000	0.911	0.000	0.024	1.05	1.55	YES	8.1
37	Total-pentafurans	339.8597	30.43	0.000	0.911	0.000	0.056	2.05	1.55	YES	19.1
2	12378-PeCDF	339.8597	30.22	2853.232	0.896	0.082	0.082	1.49	1.55	NO	18.4
37	Total-pentafurans	339.8597	29.87	4308.693	0.911	0.123	0.123	1.50	1.55	NO	22.1
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.020	1.06	1.55	YES	6.2
37	Total-pentafurans	339.8597	29.15	6354.740	0.911	0.182	0.182	1.42	1.55	NO	43.8
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.104	1.19	1.55	YES	30.1
37	Total-pentafurans	339.8597	28.98	2274.205	0.911	0.065	0.065	1.47	1.55	NO	12.9
37	Total-pentafurans	339.8597	32.61	0.000	0.911	0.000	0.018	0.91	1.55	YES	6.4
38	Total-hexafurans	373.8208	33.73	37421.111	1.032	1.291	1.291	1.08	1.24	NO	269.8
38	Total-hexafurans	373.8208	33.52	13723.437	1.032	0.474	0.474	1.27	1.24	NO	99.7
7	123789-HxCDF	373.8208	37.47	2700.376	0.987	0.000	0.084	0.98	1.24	YES	15.7
5	234678-HxCDF	373.8208	36.33	4970.590	1.037	0.000	0.152	0.87	1.24	YES	21.1
6	123678-HxCDF	373.8208	35.41	3937.616	1.035	0.131	0.131	1.23	1.24	NO	36.3
4	123478-HxCDF	373.8208	35.25	4272.324	1.068	0.145	0.145	1.27	1.24	NO	35.8
38	Total-hexafurans	373.8208	35.06	0.000	1.032	0.000	0.030	1.02	1.24	YES	5.4
38	Total-hexafurans	373.8208	34.60	39416.019	1.032	1.360	1.360	1.22	1.24	NO	304.7
38	Total-hexafurans	373.8208	34.27	0.000	1.032	0.000	0.034	1.43	1.24	YES	9.1
9	1234789-HpCDF	407.7818	42.24	3451.231	1.215	0.158	0.158	0.90	1.05	NO	22.7
39	Total-heptafurans	407.7818	40.33	103038.101	1.223	4.148	4.148	0.95	1.05	NO	624.0
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.040	1.65	1.05	YES	11.1
8	1234678-HpCDF	407.7818	39.54	61263.793	1.232	2.203	2.203	0.94	1.05	NO	386.5
10	OCDF	441.7428	47.54	88403.246	1.138	5.425	5.425	0.84	0.89	NO	257.2
36	Total-penta1	339.8597	27.51	33255.756		0.945	0.945	1.56	1.55	NO	519.5

VR82 : 00988

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TD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	26.36	0.000	1.049	0.000	0.038	1.15	0.77	YES	9.0
2	41 Total-tetradoxins	319.8965	26.06	0.000	1.049	0.000	0.013	2.56	0.77	YES	9.9
3	41 Total-tetradoxins	319.8965	25.91	0.000	1.049	0.000	0.033	0.65	0.77	YES	7.2
4	41 Total-tetradoxins	319.8965	25.70	0.000	1.049	0.000	0.025	1.11	0.77	YES	7.9
5	41 Total-tetradoxins	319.8965	25.60	0.000	1.049	0.000	0.015	1.40	0.77	YES	5.4
6	41 Total-tetradoxins	319.8965	25.35	0.000	1.049	0.000	0.063	0.93	0.77	YES	12.5
7	41 Total-tetradoxins	319.8965	25.08	0.000	1.049	0.000	0.040	0.51	0.77	YES	10.5
8	41 Total-tetradoxins	319.8965	24.85	0.000	1.049	0.000	0.057	0.64	0.77	YES	10.2
9	41 Total-tetradoxins	319.8965	24.36	1237.895	1.049	0.038	0.038	0.87	0.77	NO	8.8
10	41 Total-tetradoxins	319.8965	24.15	2305.179	1.049	0.071	0.071	0.79	0.77	NO	15.3
11	41 Total-tetradoxins	319.8965	23.88	0.000	1.049	0.000	0.092	0.65	0.77	YES	19.6
12	41 Total-tetradoxins	319.8965	27.33	0.000	1.049	0.000	0.013	1.09	0.77	YES	5.0
13	41 Total-tetradoxins	319.8965	26.87	0.000	1.049	0.000	0.028	0.92	0.77	YES	6.7
14	11 2378-TCDD	319.8965	26.74	2446.602	1.049	0.000	0.040	0.30	0.77	YES	9.8

PD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	42 Total-pentadoxins	355.8546	30.77	4073.105	0.998	0.167	0.167	1.68	1.55	NO	13.9
2	42 Total-pentadoxins	355.8546	30.57	0.000	0.998	0.000	0.095	1.90	1.55	YES	14.7
3	42 Total-pentadoxins	355.8546	30.45	3552.082	0.998	0.146	0.146	1.48	1.55	NO	14.0
4	42 Total-pentadoxins	355.8546	30.23	0.000	0.998	0.000	0.100	2.16	1.55	YES	16.7
5	42 Total-pentadoxins	355.8546	29.62	3305.605	0.998	0.136	0.136	1.46	1.55	NO	15.8
6	42 Total-pentadoxins	355.8546	29.15	7788.749	0.998	0.319	0.319	1.75	1.55	NO	26.2
7	42 Total-pentadoxins	355.8546	32.21	0.000	0.998	0.000	0.054	1.88	1.55	YES	7.5
8	12 12378-PeCDD	355.8546	31.84	4657.980	0.998	0.191	0.191	1.44	1.55	NO	14.8
9	42 Total-pentadoxins	355.8546	31.14	1259.851	0.998	0.052	0.052	1.57	1.55	NO	4.1

HD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	15 123789-HxCDD	389.8157	37.04	9853.292	0.932	0.450	0.450	1.22	1.24	NO	53.1
2	43 Total-hexadoxins	389.8157	36.80	4660.075	0.940	0.211	0.211	1.24	1.24	NO	24.5
3	14 123678-HxCDD	389.8157	36.61	17950.576	0.918	0.813	0.813	1.36	1.24	NO	88.5
4	13 123478-HxCDD	389.8157	36.49	5471.776	0.971	0.246	0.246	1.07	1.24	NO	31.2
5	43 Total-hexadoxins	389.8157	35.62	9986.737	0.940	0.452	0.452	1.20	1.24	NO	47.0
6	43 Total-hexadoxins	389.8157	35.52	56943.697	0.940	2.578	2.578	1.20	1.24	NO	188.7
7	43 Total-hexadoxins	389.8157	35.12	11841.655	0.940	0.536	0.536	1.42	1.24	NO	63.2
8	43 Total-hexadoxins	389.8157	34.32	61711.065	0.940	2.794	2.794	1.13	1.24	NO	311.4

HPD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	44 Total-heptadoxins	423.7766	40.09	956494.656	1.017	47.082	47.082	1.05	1.05	NO	2487.0
2	16 1234678-HpCDD	423.7766	41.35	413105.360	1.017	20.335	20.335	1.05	1.05	NO	995.9

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
35	Total-tetrafurans	303.9016	24.75	2445.585	0.877	0.066	0.066	0.81	0.77	NO	10.0
35	Total-tetrafurans	303.9016	24.33	0.000	0.877	0.000	0.039	1.18	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.20	0.000	0.877	0.000	0.045	1.08	0.77	YES	8.4
35	Total-tetrafurans	303.9016	24.09	0.000	0.877	0.000	0.059	0.95	0.77	YES	11.1
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.025	0.43	0.77	YES	4.1
35	Total-tetrafurans	303.9016	23.85	0.000	0.877	0.000	0.078	0.95	0.77	YES	13.8
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.031	0.45	0.77	YES	5.7
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.037	0.49	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.57	0.000	0.877	0.000	0.010	0.52	0.77	YES	2.3
35	Total-tetrafurans	303.9016	23.43	7112.881	0.877	0.193	0.193	0.82	0.77	NO	30.0
35	Total-tetrafurans	303.9016	22.87	1337.921	0.877	0.036	0.036	0.84	0.77	NO	5.8
35	Total-tetrafurans	303.9016	22.60	0.000	0.877	0.000	0.029	1.12	0.77	YES	4.0
35	Total-tetrafurans	303.9016	27.51	0.000	0.877	0.000	0.023	0.52	0.77	YES	3.8
35	Total-tetrafurans	303.9016	26.32	0.000	0.877	0.000	0.071	0.58	0.77	YES	8.5
35	Total-tetrafurans	303.9016	26.24	0.000	0.877	0.000	0.021	0.62	0.77	YES	2.8
1	2378-TCDF	303.9016	26.09	3219.676	0.877	0.087	0.069	0.52	0.77	YES	8.5
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.018	0.51	0.77	YES	3.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.055	0.89	0.77	YES	7.9
35	Total-tetrafurans	303.9016	25.00	3711.134	0.877	0.101	0.101	0.78	0.77	NO	15.5
35	Total-tetrafurans	303.9016	24.85	1980.204	0.877	0.054	0.054	0.74	0.77	NO	7.3
3	23478-PeCDF	339.8597	31.58	2255.322	0.926	0.064	0.058	1.21	1.55	YES	19.2
37	Total-pentafurans	339.8597	31.53	0.000	0.911	0.000	0.019	0.84	1.55	YES	9.5
37	Total-pentafurans	339.8597	31.42	2285.428	0.911	0.065	0.065	1.67	1.55	NO	14.2
37	Total-pentafurans	339.8597	31.31	0.000	0.911	0.000	0.024	1.05	1.55	YES	8.1
37	Total-pentafurans	339.8597	30.43	0.000	0.911	0.000	0.056	2.05	1.55	YES	19.1
2	12378-PeCDF	339.8597	30.22	2853.232	0.896	0.082	0.082	1.49	1.55	NO	18.4
37	Total-pentafurans	339.8597	29.87	4308.693	0.911	0.123	0.123	1.50	1.55	NO	22.1
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.020	1.06	1.55	YES	6.2
37	Total-pentafurans	339.8597	29.15	6354.740	0.911	0.182	0.182	1.42	1.55	NO	43.8
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.104	1.19	1.55	YES	30.1
37	Total-pentafurans	339.8597	28.98	2274.205	0.911	0.065	0.065	1.47	1.55	NO	12.9
37	Total-pentafurans	339.8597	32.61	0.000	0.911	0.000	0.018	0.91	1.55	YES	6.4
38	Total-hexafurans	373.8208	33.73	37421.111	1.032	1.291	1.291	1.08	1.24	NO	269.8
38	Total-hexafurans	373.8208	33.52	13723.437	1.032	0.474	0.474	1.27	1.24	NO	99.7
7	123789-HxCDF	373.8208	37.47	2700.376	0.987	0.093	0.084	0.98	1.24	YES	15.7
5	234678-HxCDF	373.8208	36.33	4970.590	1.037	0.181	0.152	0.87	1.24	YES	21.1
6	123678-HxCDF	373.8208	35.41	3937.616	1.035	0.131	0.131	1.23	1.24	NO	36.3
4	123478-HxCDF	373.8208	35.25	4272.324	1.068	0.145	0.145	1.27	1.24	NO	35.8
38	Total-hexafurans	373.8208	35.06	0.000	1.032	0.000	0.030	1.02	1.24	YES	5.4
38	Total-hexafurans	373.8208	34.60	39416.019	1.032	1.360	1.360	1.22	1.24	NO	304.7
38	Total-hexafurans	373.8208	34.27	0.000	1.032	0.000	0.034	1.43	1.24	YES	9.1
9	1234789-HpCDF	407.7818	42.24	3451.231	1.215	0.158	0.158	0.90	1.05	NO	22.7
39	Total-heptafurans	407.7818	40.33	103038.101	1.223	4.148	4.148	0.95	1.05	NO	624.0
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.040	1.65	1.05	YES	11.1
8	1234678-HpCDF	407.7818	39.54	61263.793	1.232	2.203	2.203	0.94	1.05	NO	386.5
10	OCDF	441.7428	47.54	88403.246	1.138	5.425	5.425	0.84	0.89	NO	257.2
36	Total-penta1	339.8597	27.51	33255.756		0.945	0.945	1.56	1.55	NO	519.5

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
35	Total-tetrafurans	303.9016	24.75	2445.585	0.877	0.066	0.066	0.81	0.77	NO	10.0
35	Total-tetrafurans	303.9016	24.33	0.000	0.877	0.000	0.039	1.18	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.20	0.000	0.877	0.000	0.045	1.08	0.77	YES	8.4
35	Total-tetrafurans	303.9016	24.09	0.000	0.877	0.000	0.059	0.95	0.77	YES	11.1
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.025	0.43	0.77	YES	4.1
35	Total-tetrafurans	303.9016	23.85	0.000	0.877	0.000	0.078	0.95	0.77	YES	13.8
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.031	0.45	0.77	YES	5.7
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.037	0.49	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.57	0.000	0.877	0.000	0.010	0.52	0.77	YES	2.3
35	Total-tetrafurans	303.9016	23.43	7112.881	0.877	0.193	0.193	0.82	0.77	NO	30.0
35	Total-tetrafurans	303.9016	22.87	1337.921	0.877	0.036	0.036	0.84	0.77	NO	5.8
35	Total-tetrafurans	303.9016	22.60	0.000	0.877	0.000	0.029	1.12	0.77	YES	4.0
35	Total-tetrafurans	303.9016	27.51	0.000	0.877	0.000	0.023	0.52	0.77	YES	3.8
35	Total-tetrafurans	303.9016	26.32	0.000	0.877	0.000	0.071	0.58	0.77	YES	8.5
35	Total-tetrafurans	303.9016	26.24	0.000	0.877	0.000	0.021	0.62	0.77	YES	2.8
1	2378-TCDF	303.9016	26.09	3219.676	0.877	0.000	0.069	0.52	0.77	YES	8.5
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.018	0.51	0.77	YES	3.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.055	0.89	0.77	YES	7.9
35	Total-tetrafurans	303.9016	25.00	3711.134	0.877	0.101	0.101	0.78	0.77	NO	15.5
35	Total-tetrafurans	303.9016	24.85	1980.204	0.877	0.054	0.054	0.74	0.77	NO	7.3
3	23478-PeCDF	339.8597	31.58	2255.322	0.926	0.000	0.058	1.21	1.55	YES	19.2
37	Total-pentafurans	339.8597	31.53	0.000	0.911	0.000	0.019	0.84	1.55	YES	9.5
37	Total-pentafurans	339.8597	31.42	2285.428	0.911	0.065	0.065	1.67	1.55	NO	14.2
37	Total-pentafurans	339.8597	31.31	0.000	0.911	0.000	0.024	1.05	1.55	YES	8.1
37	Total-pentafurans	339.8597	30.43	0.000	0.911	0.000	0.056	2.05	1.55	YES	19.1
2	12378-PeCDF	339.8597	30.22	2853.232	0.896	0.082	0.082	1.49	1.55	NO	18.4
37	Total-pentafurans	339.8597	29.87	4308.693	0.911	0.123	0.123	1.50	1.55	NO	22.1
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.020	1.06	1.55	YES	6.2
37	Total-pentafurans	339.8597	29.15	6354.740	0.911	0.182	0.182	1.42	1.55	NO	43.8
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.104	1.19	1.55	YES	30.1
37	Total-pentafurans	339.8597	28.98	2274.205	0.911	0.065	0.065	1.47	1.55	NO	12.9
37	Total-pentafurans	339.8597	32.61	0.000	0.911	0.000	0.018	0.91	1.55	YES	6.4
38	Total-hexafurans	373.8208	33.73	37421.111	1.032	1.291	1.291	1.08	1.24	NO	269.8
38	Total-hexafurans	373.8208	33.52	13723.437	1.032	0.474	0.474	1.27	1.24	NO	99.7
7	123789-HxCDF	373.8208	37.47	2700.376	0.987	0.000	0.084	0.98	1.24	YES	15.7
5	234678-HxCDF	373.8208	36.33	4970.590	1.037	0.000	0.152	0.87	1.24	YES	21.1
6	123678-HxCDF	373.8208	35.41	3937.616	1.035	0.131	0.131	1.23	1.24	NO	36.3
4	123478-HxCDF	373.8208	35.25	4272.324	1.068	0.145	0.145	1.27	1.24	NO	35.8
38	Total-hexafurans	373.8208	35.06	0.000	1.032	0.000	0.030	1.02	1.24	YES	5.4
38	Total-hexafurans	373.8208	34.60	39416.019	1.032	1.360	1.360	1.22	1.24	NO	304.7
38	Total-hexafurans	373.8208	34.27	0.000	1.032	0.000	0.034	1.43	1.24	YES	9.1
9	1234789-HpCDF	407.7818	42.24	3451.231	1.215	0.158	0.158	0.90	1.05	NO	22.7
39	Total-heptafurans	407.7818	40.33	103038.101	1.223	4.148	4.148	0.95	1.05	NO	624.0
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.040	1.65	1.05	YES	11.1
8	1234678-HpCDF	407.7818	39.54	61263.793	1.232	2.203	2.203	0.94	1.05	NO	386.5
10	OCDF	441.7428	47.54	88403.246	1.138	5.425	5.425	0.84	0.89	NO	257.2
36	Total-penta1	339.8597	27.51	33255.756		0.945	0.945	1.56	1.55	NO	519.5
35	Total-tetrafurans	303.9016	24.75	2445.585	0.877	0.066	0.066	0.81	0.77	NO	10.0
35	Total-tetrafurans	303.9016	24.33	0.000	0.877	0.000	0.039	1.18	0.77	YES	9.3

VR82 : 00991

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	SN
50	35 Total-tetrafurans	303.9016	24.20	0.000	0.877	0.000	0.045	1.08	0.77	YES	8.4
51	35 Total-tetrafurans	303.9016	24.09	0.000	0.877	0.000	0.059	0.95	0.77	YES	11.1
52	35 Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.025	0.43	0.77	YES	4.1
53	35 Total-tetrafurans	303.9016	23.85	0.000	0.877	0.000	0.078	0.95	0.77	YES	13.8
54	35 Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.031	0.45	0.77	YES	5.7
55	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.037	0.49	0.77	YES	3.8
56	35 Total-tetrafurans	303.9016	23.57	0.000	0.877	0.000	0.010	0.52	0.77	YES	2.3
57	35 Total-tetrafurans	303.9016	23.43	7112.881	0.877	0.193	0.193	0.82	0.77	NO	30.0
58	35 Total-tetrafurans	303.9016	22.87	1337.921	0.877	0.036	0.036	0.84	0.77	NO	5.8
59	35 Total-tetrafurans	303.9016	22.60	0.000	0.877	0.000	0.029	1.12	0.77	YES	4.0
60	35 Total-tetrafurans	303.9016	27.51	0.000	0.877	0.000	0.023	0.52	0.77	YES	3.8
61	35 Total-tetrafurans	303.9016	26.32	0.000	0.877	0.000	0.071	0.58	0.77	YES	8.5
62	35 Total-tetrafurans	303.9016	26.24	0.000	0.877	0.000	0.021	0.62	0.77	YES	2.8
63	1 2378-TCDF	303.9016	26.09	3219.676	0.877	0.000	0.069	0.52	0.77	YES	8.5
64	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.018	0.51	0.77	YES	3.5
65	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.055	0.89	0.77	YES	7.9
66	35 Total-tetrafurans	303.9016	25.00	3711.134	0.877	0.101	0.101	0.78	0.77	NO	15.5
73	35 Total-tetrafurans	303.9016	24.85	1980.204	0.877	0.054	0.054	0.74	0.77	NO	7.3
	3 23478-PeCDF	339.8597	31.58	2255.322	0.926	0.000	0.058	1.21	1.55	YES	19.2
	37 Total-pentafurans	339.8597	31.53	0.000	0.911	0.000	0.019	0.84	1.55	YES	9.5
	37 Total-pentafurans	339.8597	31.42	2285.428	0.911	0.065	0.065	1.67	1.55	NO	14.2
	37 Total-pentafurans	339.8597	31.31	0.000	0.911	0.000	0.024	1.05	1.55	YES	8.1
	37 Total-pentafurans	339.8597	30.43	0.000	0.911	0.000	0.056	2.05	1.55	YES	19.1
3	2 12378-PeCDF	339.8597	30.22	2853.232	0.896	0.082	0.082	1.49	1.55	NO	18.4
74	37 Total-pentafurans	339.8597	29.87	4308.693	0.911	0.123	0.123	1.50	1.55	NO	22.1
75	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.020	1.06	1.55	YES	6.2
76	37 Total-pentafurans	339.8597	29.15	6354.740	0.911	0.182	0.182	1.42	1.55	NO	43.8
77	37 Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.104	1.19	1.55	YES	30.1
78	37 Total-pentafurans	339.8597	28.98	2274.205	0.911	0.065	0.065	1.47	1.55	NO	12.9
79	37 Total-pentafurans	339.8597	32.61	0.000	0.911	0.000	0.018	0.91	1.55	YES	6.4
80	38 Total-hexafurans	373.8208	33.73	37421.111	1.032	1.291	1.291	1.08	1.24	NO	269.8
81	38 Total-hexafurans	373.8208	33.52	13723.437	1.032	0.474	0.474	1.27	1.24	NO	99.7
82	7 123789-HxCDF	373.8208	37.47	2700.376	0.987	0.000	0.084	0.98	1.24	YES	15.7
83	5 234678-HxCDF	373.8208	36.33	4970.590	1.037	0.000	0.152	0.87	1.24	YES	21.1
84	6 123678-HxCDF	373.8208	35.41	3937.616	1.035	0.131	0.131	1.23	1.24	NO	36.3
85	4 123478-HxCDF	373.8208	35.25	4272.324	1.068	0.145	0.145	1.27	1.24	NO	35.8
86	38 Total-hexafurans	373.8208	35.06	0.000	1.032	0.000	0.030	1.02	1.24	YES	5.4
87	38 Total-hexafurans	373.8208	34.60	39416.019	1.032	1.360	1.360	1.22	1.24	NO	304.7
88	38 Total-hexafurans	373.8208	34.27	0.000	1.032	0.000	0.034	1.43	1.24	YES	9.1
89	9 1234789-HpCDF	407.7818	42.24	3451.231	1.215	0.158	0.158	0.90	1.05	NO	22.7
90	39 Total-heptafurans	407.7818	40.33	103038.101	1.223	4.148	4.148	0.95	1.05	NO	624.0
91	39 Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.040	1.65	1.05	YES	11.1
92	8 1234678-HpCDF	407.7818	39.54	61263.793	1.232	2.203	2.203	0.94	1.05	NO	386.5
93	10 OCDF	441.7428	47.54	88403.246	1.138	5.425	5.425	0.84	0.89	NO	257.2
94	36 Total-penta1	339.8597	27.51	33255.756		0.945	0.945	1.56	1.55	NO	519.5

Quantify Totals Report MassLynx 4.1 SCN 714

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PFK1

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
1	48 FUNCTION1 PFK	330.9792	22.52	0.000							1.5
2	48 FUNCTION1 PFK	330.9792	22.45	0.000							2.2
3	48 FUNCTION1 PFK	330.9792	22.34	0.000							4.6
4	48 FUNCTION1 PFK	330.9792	21.88	0.000							15.4
5	48 FUNCTION1 PFK	330.9792	21.79	0.000							15.3
6	48 FUNCTION1 PFK	330.9792	21.69	0.000							18.0
7	48 FUNCTION1 PFK	330.9792	21.58	0.000							18.3
8	48 FUNCTION1 PFK	330.9792	21.51	0.000							20.1
9	48 FUNCTION1 PFK	330.9792	21.16	0.000							25.8
10	48 FUNCTION1 PFK	330.9792	27.38	0.000							2.1
11	48 FUNCTION1 PFK	330.9792	27.29	0.000							0.7
12	48 FUNCTION1 PFK	330.9792	27.12	0.000							0.9
13	48 FUNCTION1 PFK	330.9792	26.74	0.000							1.0
14	48 FUNCTION1 PFK	330.9792	26.68	0.000							0.4
15	48 FUNCTION1 PFK	330.9792	26.51	0.000							1.5
16	48 FUNCTION1 PFK	330.9792	26.23	0.000							0.4
17	48 FUNCTION1 PFK	330.9792	25.85	0.000							0.7
18	48 FUNCTION1 PFK	330.9792	25.41	0.000							1.1
19	48 FUNCTION1 PFK	330.9792	24.76	0.000							0.6
20	48 FUNCTION1 PFK	330.9792	24.36	0.000							2.4
21	48 FUNCTION1 PFK	330.9792	24.00	0.000							1.4
22	48 FUNCTION1 PFK	330.9792	23.72	0.000							1.6
23	48 FUNCTION1 PFK	330.9792	23.25	0.000							0.9
24	48 FUNCTION1 PFK	330.9792	23.15	0.000							1.2
25	48 FUNCTION1 PFK	330.9792	23.09	0.000							0.8
26	48 FUNCTION1 PFK	330.9792	28.09	0.000							1.0

PFK2

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
1	49 FUNCTION2 PFK	366.9792	32.40	0.000		0.000					1.0
2	49 FUNCTION2 PFK	366.9792	31.99	0.000		0.000					2.0
3	49 FUNCTION2 PFK	366.9792	31.86	0.000		0.000					0.8
4	49 FUNCTION2 PFK	366.9792	31.19	0.000		0.000					1.1
5	49 FUNCTION2 PFK	366.9792	30.86	0.000		0.000					2.4
6	49 FUNCTION2 PFK	366.9792	30.72	0.000		0.000					1.2
7	49 FUNCTION2 PFK	366.9792	30.61	0.000		0.000					1.3
8	49 FUNCTION2 PFK	366.9792	30.44	0.000		0.000					0.9
9	49 FUNCTION2 PFK	366.9792	30.40	0.000		0.000					1.0
10	49 FUNCTION2 PFK	366.9792	30.23	0.000		0.000					1.3
11	49 FUNCTION2 PFK	366.9792	29.83	0.000		0.000					1.1
12	49 FUNCTION2 PFK	366.9792	29.03	0.000		0.000					1.3
13	49 FUNCTION2 PFK	366.9792	28.50	0.000		0.000					1.2
14	49 FUNCTION2 PFK	366.9792	28.39	0.000		0.000					2.6
15	49 FUNCTION2 PFK	366.9792	32.96	0.000		0.000					1.9
16	49 FUNCTION2 PFK	366.9792	32.80	0.000		0.000					1.4

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PFK3

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
1	50 FUNCTION3 PFK	380.9760	36.35	0.000		0.000					1.3
2	50 FUNCTION3 PFK	380.9760	36.31	0.000		0.000					1.2
3	50 FUNCTION3 PFK	380.9760	36.00	0.000		0.000					0.9
4	50 FUNCTION3 PFK	380.9760	35.69	0.000		0.000					1.5
5	50 FUNCTION3 PFK	380.9760	35.55	0.000		0.000					0.9
6	50 FUNCTION3 PFK	380.9760	35.46	0.000		0.000					1.0
7	50 FUNCTION3 PFK	380.9760	35.10	0.000		0.000					1.4
8	50 FUNCTION3 PFK	380.9760	34.76	0.000		0.000					1.5
9	50 FUNCTION3 PFK	380.9760	34.49	0.000		0.000					0.7
10	50 FUNCTION3 PFK	380.9760	34.12	0.000		0.000					0.9
11	50 FUNCTION3 PFK	380.9760	33.51	0.000		0.000					29.5
12	50 FUNCTION3 PFK	380.9760	33.34	0.000		0.000					36.5
13	50 FUNCTION3 PFK	380.9760	33.17	0.000		0.000					42.9
14	50 FUNCTION3 PFK	380.9760	38.30	0.000		0.000					1.3
15	50 FUNCTION3 PFK	380.9760	38.21	0.000		0.000					1.3
16	50 FUNCTION3 PFK	380.9760	38.07	0.000		0.000					0.6
17	50 FUNCTION3 PFK	380.9760	38.03	0.000		0.000					1.6
18	50 FUNCTION3 PFK	380.9760	37.96	0.000		0.000					1.7
19	50 FUNCTION3 PFK	380.9760	37.88	0.000		0.000					1.4
20	50 FUNCTION3 PFK	380.9760	37.82	0.000		0.000					2.3
21	50 FUNCTION3 PFK	380.9760	37.60	0.000		0.000					3.0
22	50 FUNCTION3 PFK	380.9760	37.45	0.000		0.000					11.9
23	50 FUNCTION3 PFK	380.9760	37.36	0.000		0.000					12.8
24	50 FUNCTION3 PFK	380.9760	37.28	0.000		0.000					3.5
25	50 FUNCTION3 PFK	380.9760	37.23	0.000		0.000					3.4
26	50 FUNCTION3 PFK	380.9760	37.14	0.000		0.000					1.9
27	50 FUNCTION3 PFK	380.9760	36.90	0.000		0.000					1.2
28	50 FUNCTION3 PFK	380.9760	36.77	0.000		0.000					1.8

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs. Resp.	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	51 FUNCTION4 PFK	430.9728	40.66	0.000							0.5
2	51 FUNCTION4 PFK	430.9728	40.50	0.000							0.9
3	51 FUNCTION4 PFK	430.9728	40.41	0.000							0.5
4	51 FUNCTION4 PFK	430.9728	40.36	0.000							0.7
5	51 FUNCTION4 PFK	430.9728	39.97	0.000							0.7
6	51 FUNCTION4 PFK	430.9728	39.80	0.000							1.0
7	51 FUNCTION4 PFK	430.9728	39.76	0.000							0.8
8	51 FUNCTION4 PFK	430.9728	39.74	0.000							0.7
9	51 FUNCTION4 PFK	430.9728	39.68	0.000							1.2
10	51 FUNCTION4 PFK	430.9728	39.54	0.000							1.0
11	51 FUNCTION4 PFK	430.9728	39.41	0.000							1.5
12	51 FUNCTION4 PFK	430.9728	39.36	0.000							2.2
13	51 FUNCTION4 PFK	430.9728	39.19	0.000							0.6
14	51 FUNCTION4 PFK	430.9728	39.13	0.000							1.2
15	51 FUNCTION4 PFK	430.9728	38.77	0.000							1.5
16	51 FUNCTION4 PFK	430.9728	38.66	0.000							1.3
17	51 FUNCTION4 PFK	430.9728	43.32	0.000							1.2
18	51 FUNCTION4 PFK	430.9728	43.06	0.000							0.7
19	51 FUNCTION4 PFK	430.9728	42.95	0.000							1.2
20	51 FUNCTION4 PFK	430.9728	42.83	0.000							1.3
21	51 FUNCTION4 PFK	430.9728	42.28	0.000							0.9
22	51 FUNCTION4 PFK	430.9728	41.95	0.000							0.9
23	51 FUNCTION4 PFK	430.9728	41.83	0.000							0.9
24	51 FUNCTION4 PFK	430.9728	41.74	0.000							1.6
25	51 FUNCTION4 PFK	430.9728	41.70	0.000							1.4
26	51 FUNCTION4 PFK	430.9728	41.65	0.000							1.2
27	51 FUNCTION4 PFK	430.9728	41.57	0.000							1.4
28	51 FUNCTION4 PFK	430.9728	41.49	0.000							1.0
29	51 FUNCTION4 PFK	430.9728	41.27	0.000							1.7
30	51 FUNCTION4 PFK	430.9728	41.18	0.000							1.2
31	51 FUNCTION4 PFK	430.9728	40.82	0.000							1.6
32	51 FUNCTION4 PFK	430.9728	40.71	0.000							1.1
33	51 FUNCTION4 PFK	430.9728	44.94	0.000							1.3
34	51 FUNCTION4 PFK	430.9728	44.58	0.000							1.3
35	51 FUNCTION4 PFK	430.9728	44.54	0.000							1.9
36	51 FUNCTION4 PFK	430.9728	44.36	0.000							1.4
37	51 FUNCTION4 PFK	430.9728	44.31	0.000							1.6
38	51 FUNCTION4 PFK	430.9728	44.26	0.000							2.5
39	51 FUNCTION4 PFK	430.9728	44.20	0.000							0.4
40	51 FUNCTION4 PFK	430.9728	43.96	0.000							1.3
41	51 FUNCTION4 PFK	430.9728	43.89	0.000							1.6
42	51 FUNCTION4 PFK	430.9728	43.85	0.000							2.5
43	51 FUNCTION4 PFK	430.9728	43.42	0.000							0.7

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
52	FUNCTION5 PFK	480.9696	45.18	0.000							10.9
52	FUNCTION5 PFK	480.9696	45.13	0.000							11.3
52	FUNCTION5 PFK	480.9696	45.10	0.000							12.1
52	FUNCTION5 PFK	480.9696	45.06	0.000							13.6
52	FUNCTION5 PFK	480.9696	46.41	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.36	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.33	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.27	0.000							0.9
52	FUNCTION5 PFK	480.9696	46.13	0.000							1.0
52	FUNCTION5 PFK	480.9696	46.09	0.000							2.2
52	FUNCTION5 PFK	480.9696	46.01	0.000							1.4
52	FUNCTION5 PFK	480.9696	45.89	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.77	0.000							2.1
52	FUNCTION5 PFK	480.9696	45.75	0.000							1.9
52	FUNCTION5 PFK	480.9696	45.72	0.000							1.3
52	FUNCTION5 PFK	480.9696	45.70	0.000							1.0
52	FUNCTION5 PFK	480.9696	45.63	0.000							1.7
52	FUNCTION5 PFK	480.9696	45.57	0.000							1.8
52	FUNCTION5 PFK	480.9696	45.46	0.000							1.9
52	FUNCTION5 PFK	480.9696	45.22	0.000							9.8
52	FUNCTION5 PFK	480.9696	47.67	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.56	0.000							1.9
52	FUNCTION5 PFK	480.9696	47.50	0.000							1.4
52	FUNCTION5 PFK	480.9696	47.40	0.000							1.0
52	FUNCTION5 PFK	480.9696	47.34	0.000							0.2
52	FUNCTION5 PFK	480.9696	47.22	0.000							1.3
52	FUNCTION5 PFK	480.9696	47.18	0.000							0.8
52	FUNCTION5 PFK	480.9696	47.13	0.000							0.6
52	FUNCTION5 PFK	480.9696	47.06	0.000							1.7
52	FUNCTION5 PFK	480.9696	47.01	0.000							1.2
52	FUNCTION5 PFK	480.9696	46.97	0.000							0.7
52	FUNCTION5 PFK	480.9696	46.93	0.000							1.1
52	FUNCTION5 PFK	480.9696	46.89	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.77	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.66	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.58	0.000							0.5
52	FUNCTION5 PFK	480.9696	48.74	0.000							0.6
52	FUNCTION5 PFK	480.9696	48.69	0.000							1.6
52	FUNCTION5 PFK	480.9696	48.64	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.54	0.000							2.1
52	FUNCTION5 PFK	480.9696	48.48	0.000							0.8
52	FUNCTION5 PFK	480.9696	48.38	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.34	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.19	0.000							1.2
52	FUNCTION5 PFK	480.9696	48.13	0.000							0.9
52	FUNCTION5 PFK	480.9696	48.10	0.000							0.4
52	FUNCTION5 PFK	480.9696	48.03	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.98	0.000							1.3
52	FUNCTION5 PFK	480.9696	47.95	0.000							0.6

VR82: 00995

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	52 FUNCTION5 PFK	480.9696	47.89	0.000							1.3
51	52 FUNCTION5 PFK	480.9696	47.77	0.000							0.5
52	52 FUNCTION5 PFK	480.9696	47.71	0.000							1.1
53	52 FUNCTION5 PFK	480.9696	48.98	0.000							0.7
54	52 FUNCTION5 PFK	480.9696	48.89	0.000							1.0
55	52 FUNCTION5 PFK	480.9696	48.86	0.000							0.9

ETHERS1

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS2

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.99	0.000		0.000					2.6
2	54 FUNCTION1 HPCD...	409.7974	26.26	0.000		0.000					1.3
3	54 FUNCTION1 HPCD...	409.7974	25.79	0.000		0.000					1.6
4	54 FUNCTION1 HPCD...	409.7974	24.78	0.000		0.000					2.5
5	54 FUNCTION1 HPCD...	409.7974	24.64	0.000		0.000					1.8
6	54 FUNCTION1 HPCD...	409.7974	24.06	0.000		0.000					1.2
7	54 FUNCTION1 HPCD...	409.7974	23.81	0.000		0.000					2.1
8	54 FUNCTION1 HPCD...	409.7974	23.49	0.000		0.000					2.1
9	54 FUNCTION1 HPCD...	409.7974	23.15	0.000		0.000					2.2
10	54 FUNCTION1 HPCD...	409.7974	22.81	0.000		0.000					1.2
11	54 FUNCTION1 HPCD...	409.7974	22.40	0.000		0.000					1.4

ETHERS3

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.18	0.000		0.000					2.9
2	55 FUNCTION2 HPCD...	409.7974	31.81	0.000		0.000					2.8
3	55 FUNCTION2 HPCD...	409.7974	31.37	0.000		0.000					2.1
4	55 FUNCTION2 HPCD...	409.7974	30.20	0.000		0.000					2.6
5	55 FUNCTION2 HPCD...	409.7974	29.73	0.000		0.000					2.1

ETHERS4

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.13	0.000		0.000					76.4

ETHERS6

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

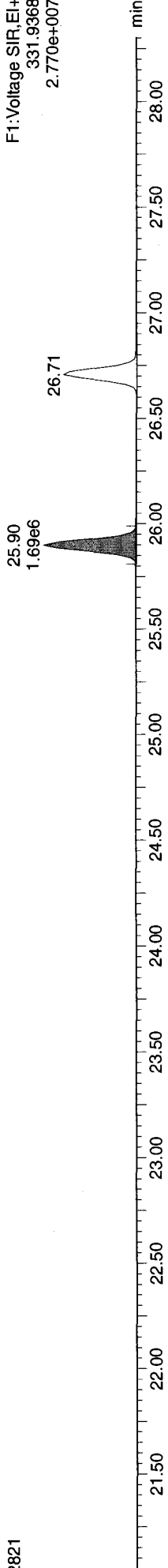
13C-1234-TCDD

12112821

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%

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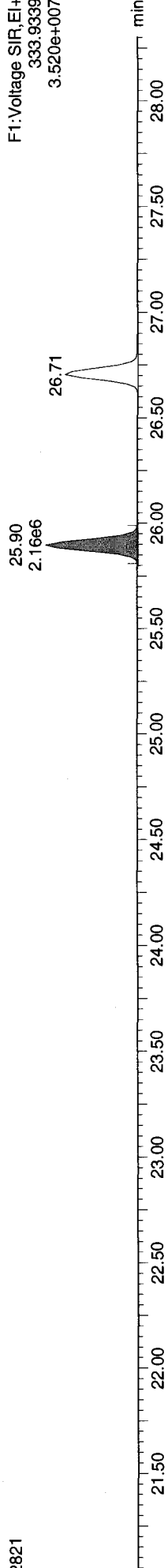
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12112821

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%

0



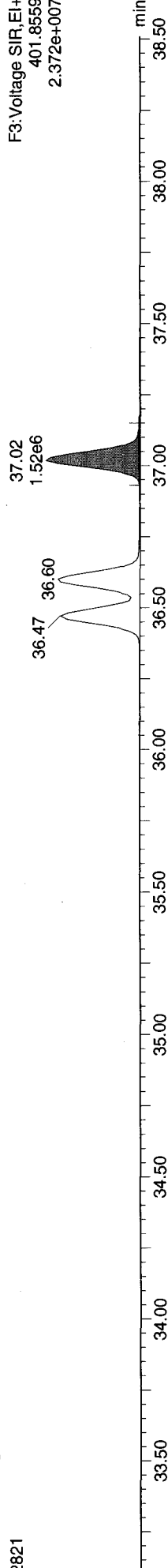
13C-123789-HxCDD

12112821

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%

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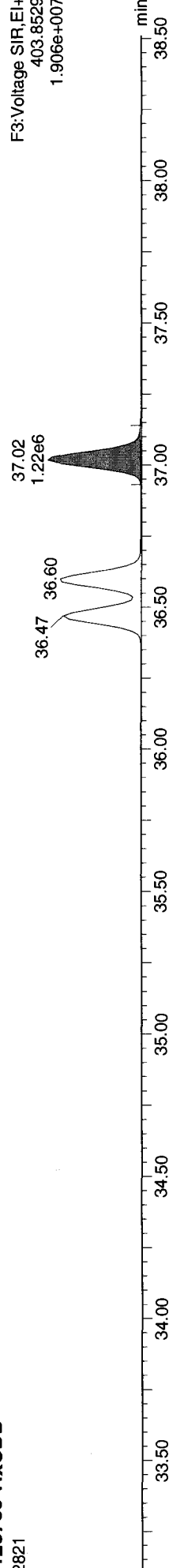
13C-123789-HxCDD

12112821

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%

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Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN6290.PRO\121128DATA3.qld

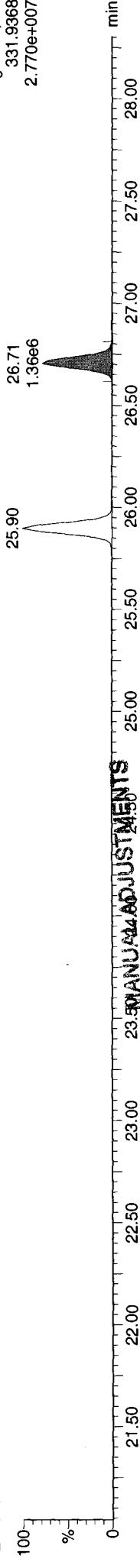
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

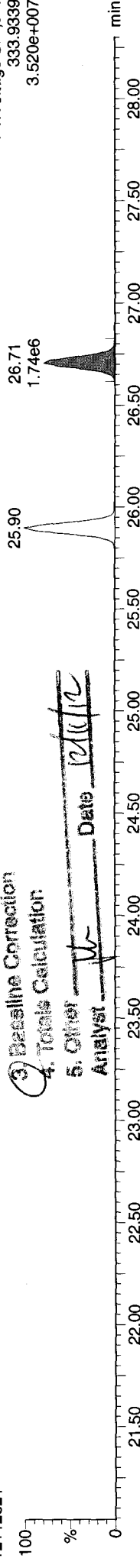
13C-2378-TCDD

12112821



13C-2378-TCDD

12112821

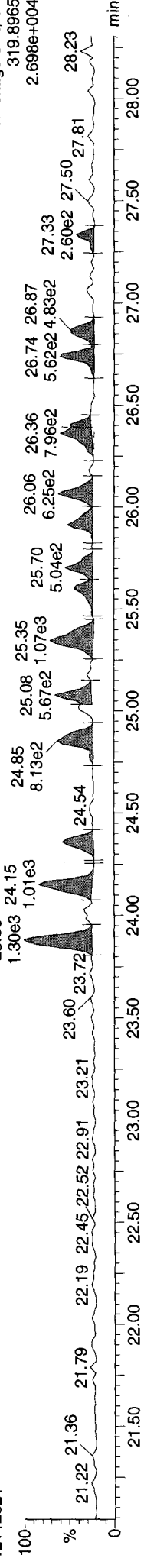


1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst pk Date 12/11/12

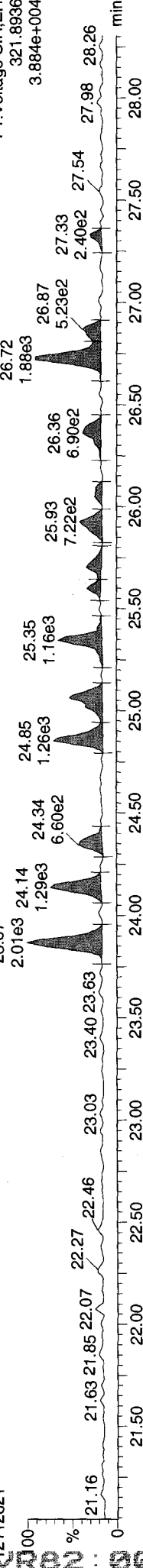
Total-tetradioxins

12112821



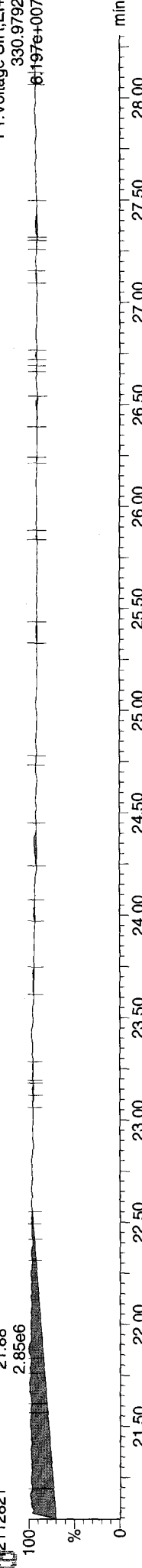
Total-tetradioxins

12112821



FUNCTION1 PFK

12112821



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

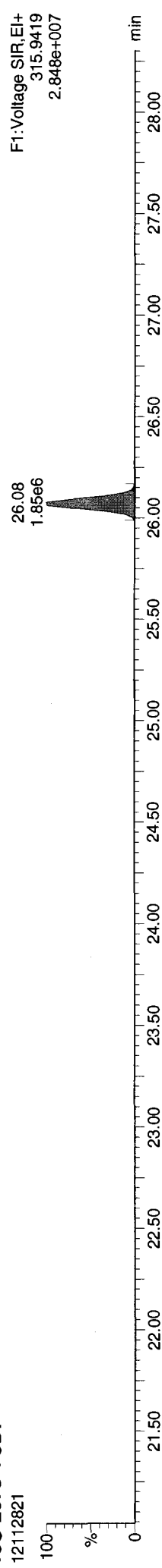
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

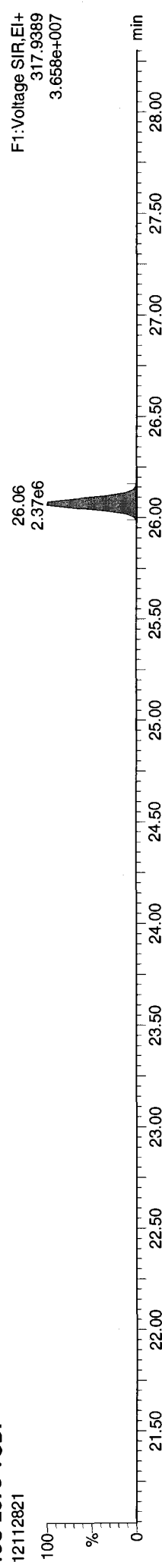
13C-2378-TCDF

12112821



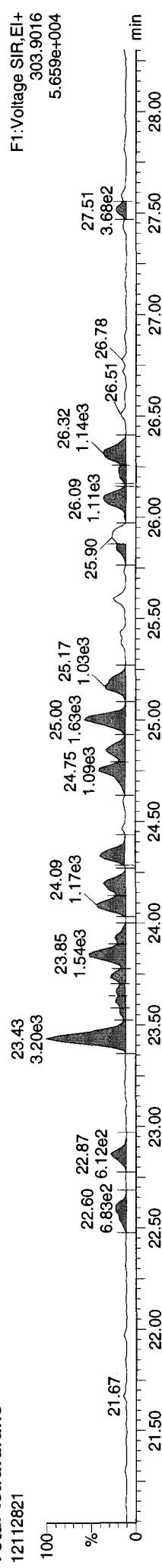
13C-2378-TCDF

12112821



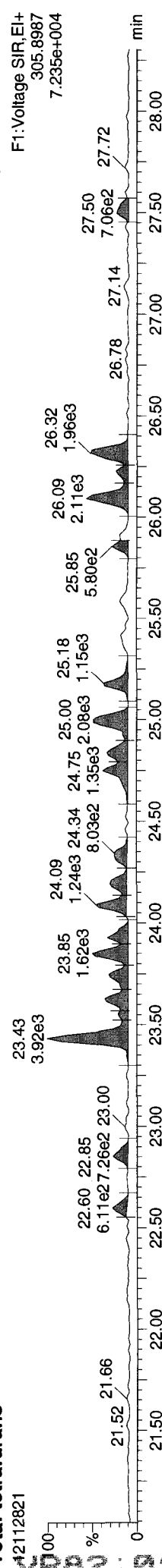
Total-tetrafurans

12112821



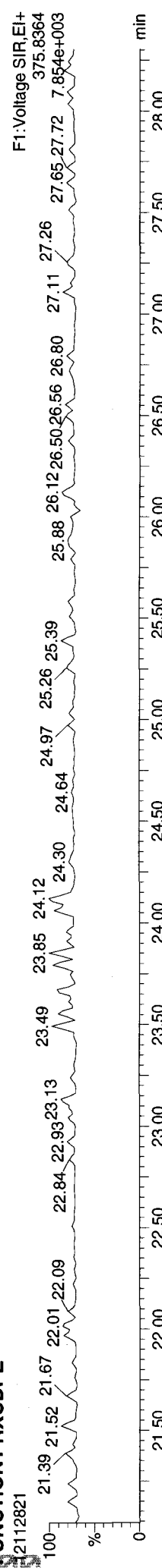
Total-tetrafurans

12112821



FUNCTION1 HXCDPE

12112821



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

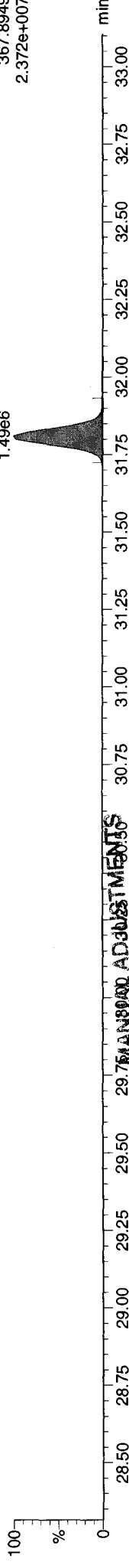
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

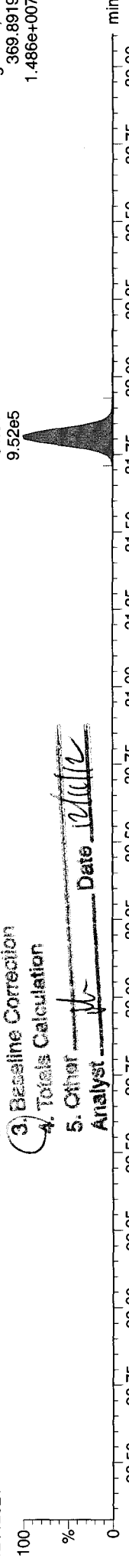
13C-12378-PeCDD

12112821



13C-12378-PeCDD

12112821

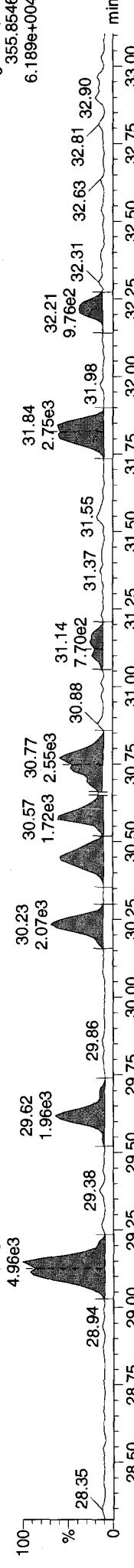


1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: *[Signature]* Date: *[Signature]*

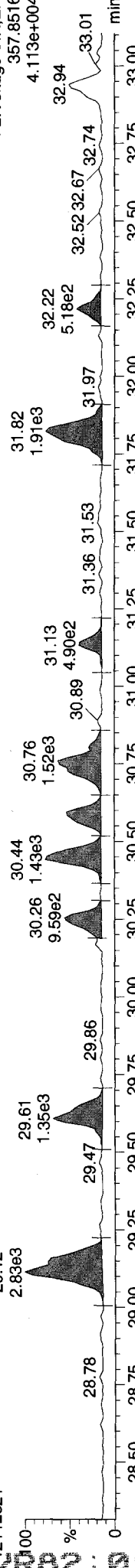
Total-pentadioxins

12112821



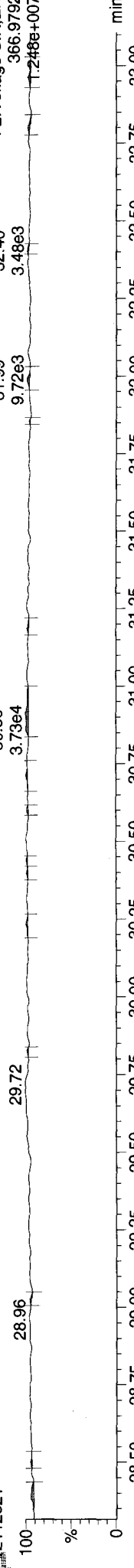
Total-pentadioxins

12112821



FUNCTION2 PFK

12112821



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

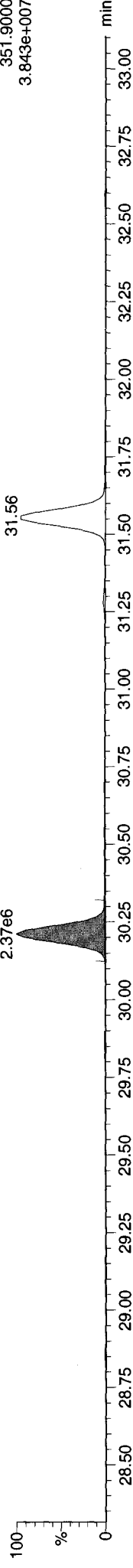
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

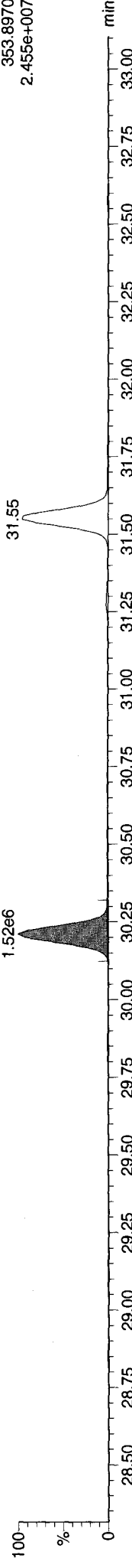
13C-12378-PeCDF

12112821



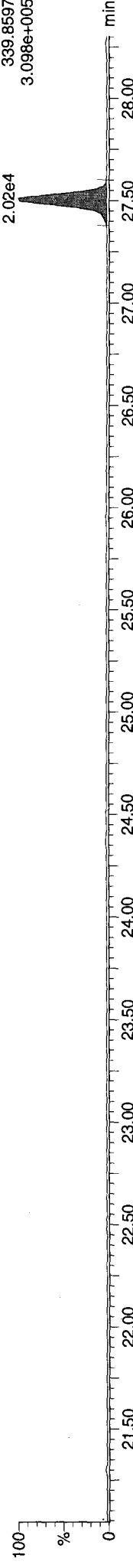
13C-12378-PeCDF

12112821



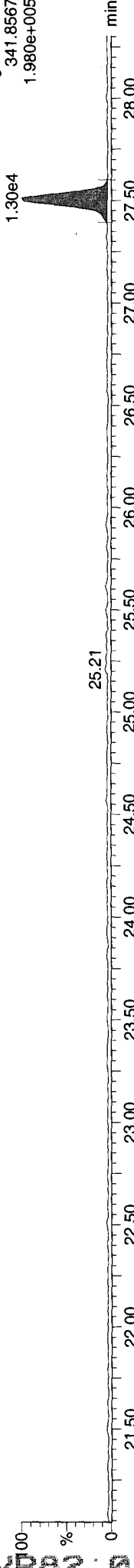
Total-penta1

12112821



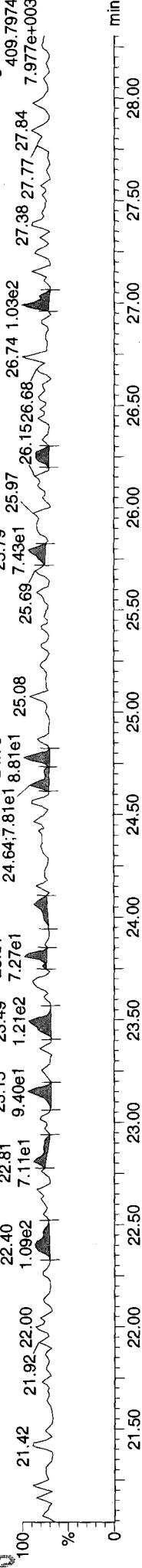
Total-penta1

12112821



FUNCTION1 HPCDFE

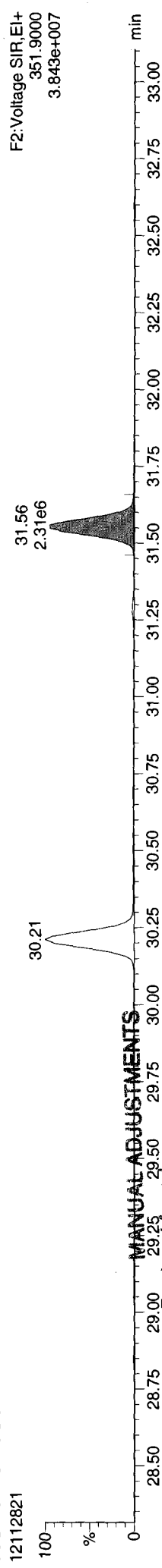
12112821



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

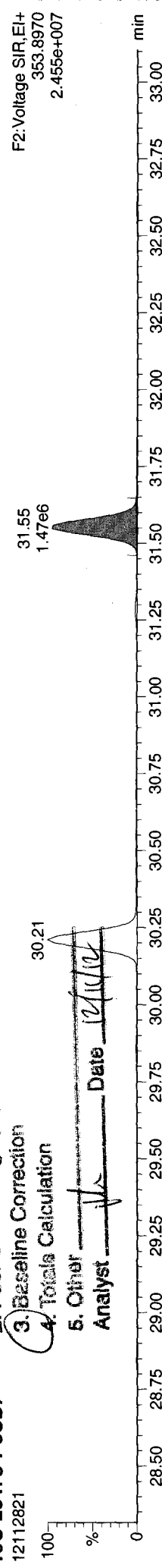
13C-23478-PeCDF



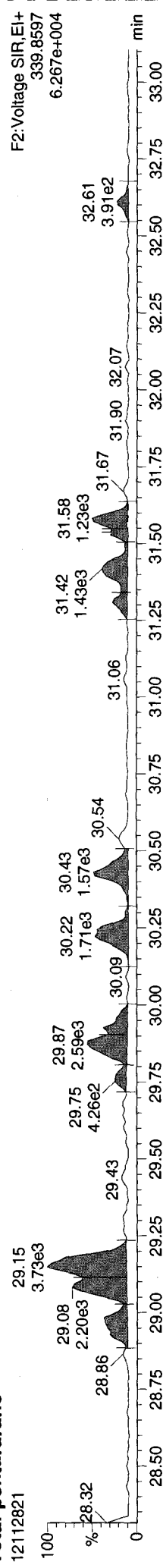
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

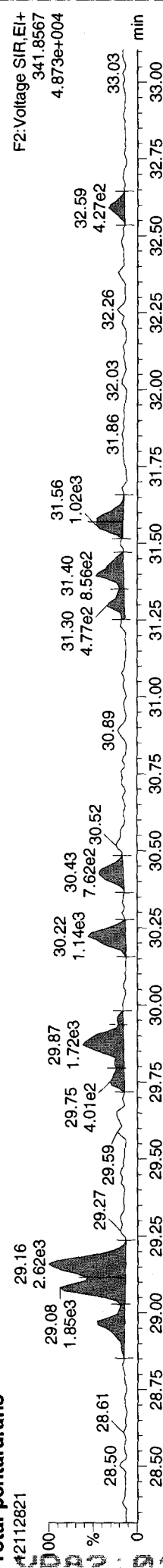
13C-23478-PeCDF



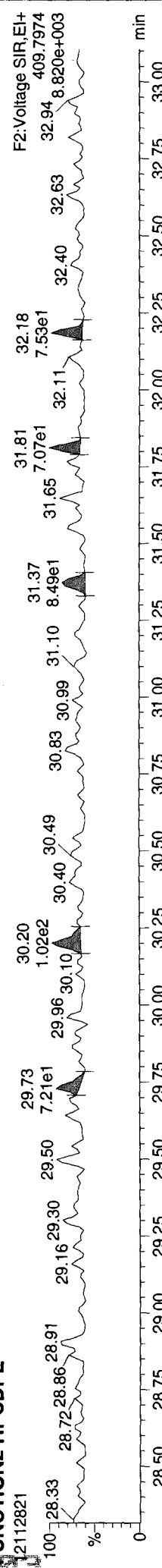
Total-pentafurans



Total-pentafurans



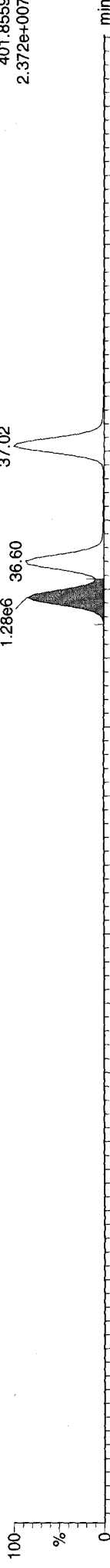
FUNCTION2 HPCDFE



Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

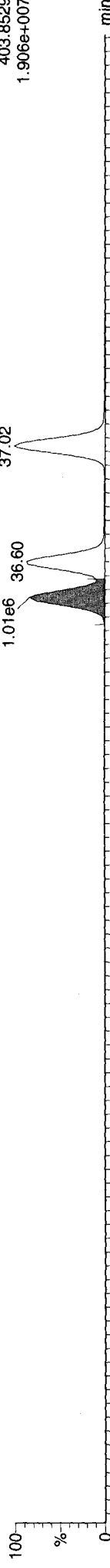
13C-123478-HxCDD

12112821



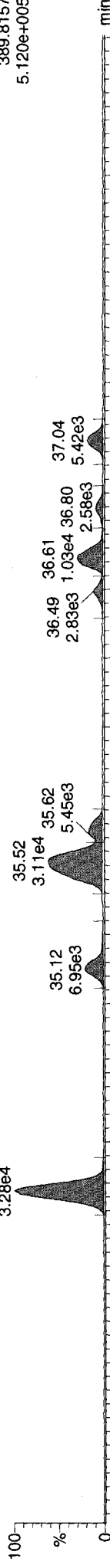
13C-123478-HxCDD

12112821



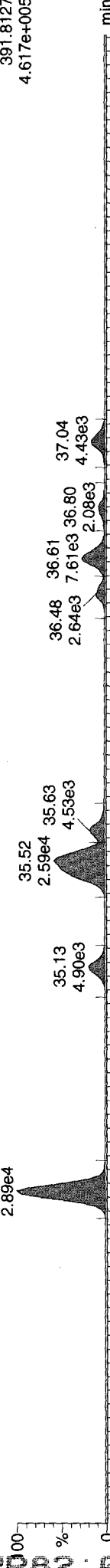
Total-hexadioxins

12112821



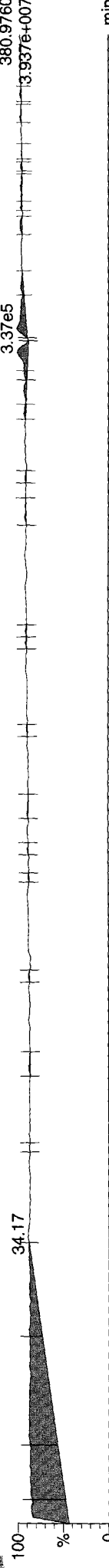
Total-hexadioxins

12112821



FUNCTION3 PFK

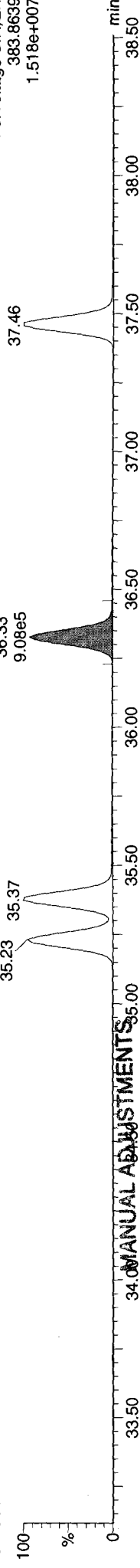
12112821



Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

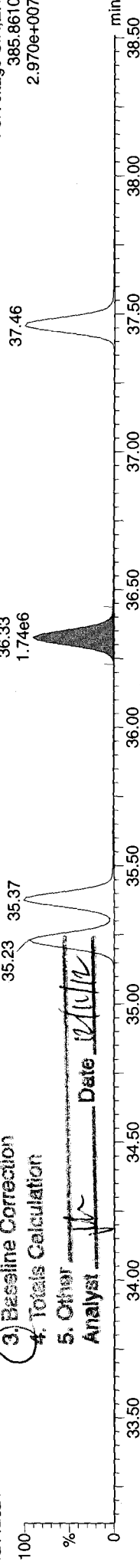
13C-234678-HxCDF

12112821



13C-234678-HxCDF

12112821

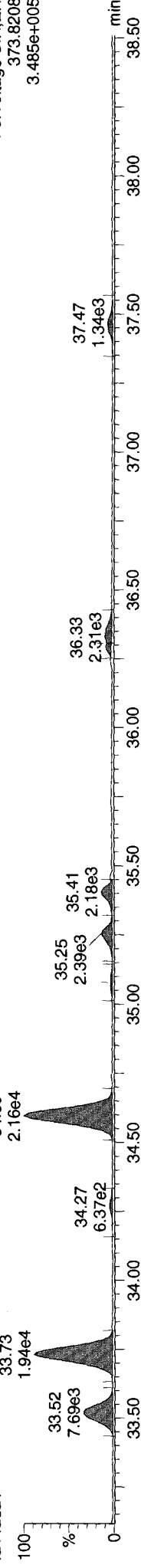


1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: [Signature] Date: 12/11/12

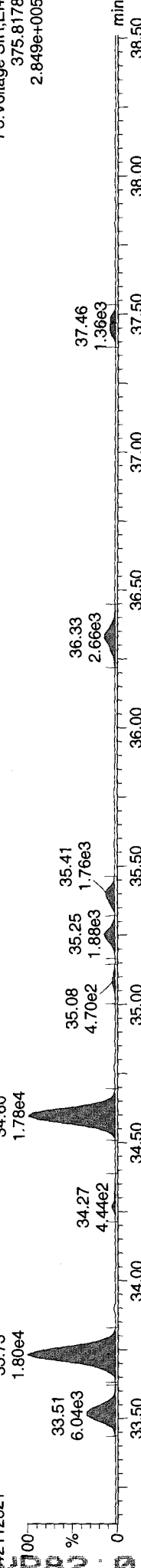
Total-hexafurans

12112821



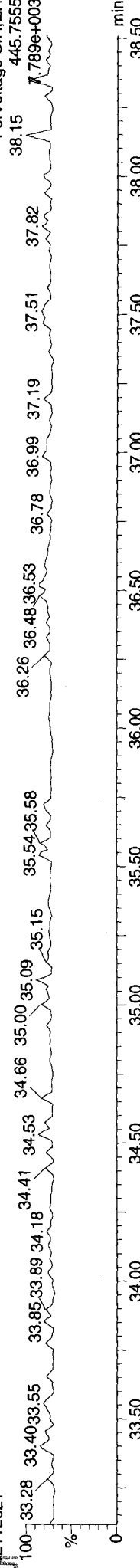
Total-hexafurans

12112821



FUNCTION3 OCDFE

12112821



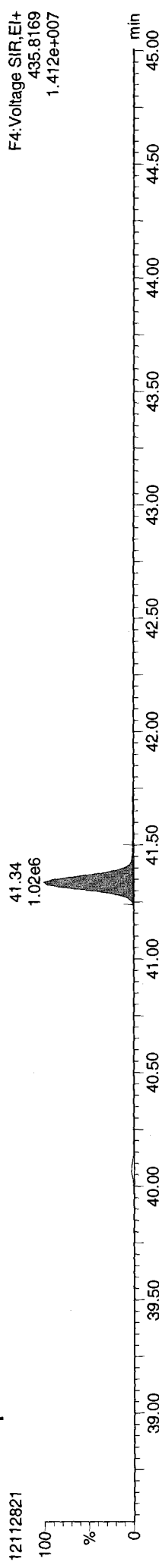
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

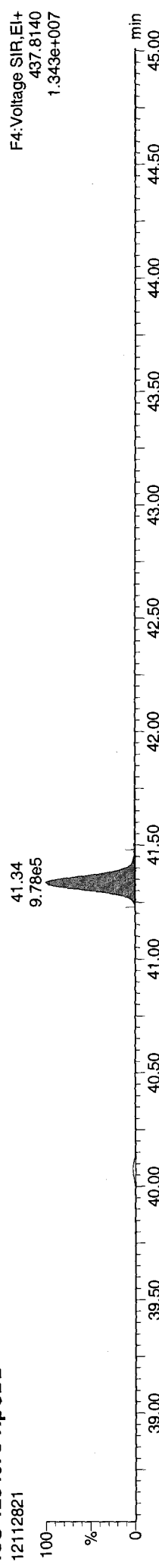
Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

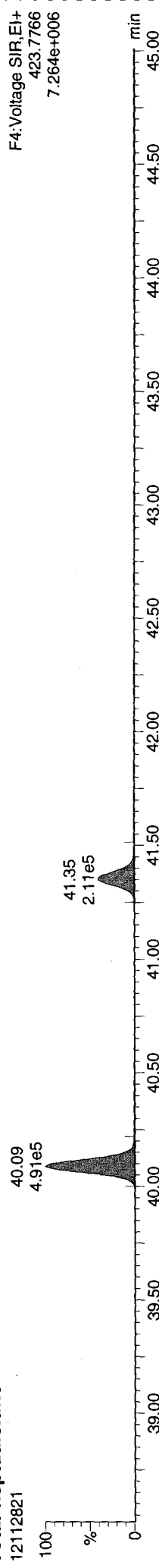
13C-1234678-HpCDD



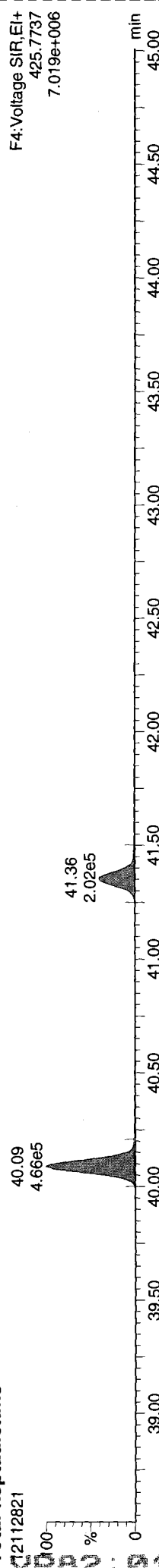
13C-1234678-HpCDD



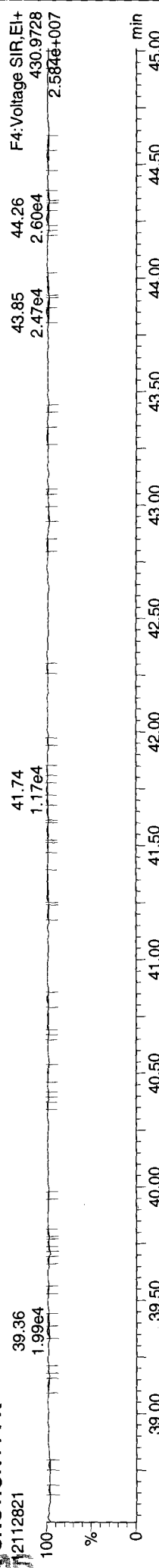
Total-heptadioxins



Total-heptadioxins



JUNCTION4 PFK

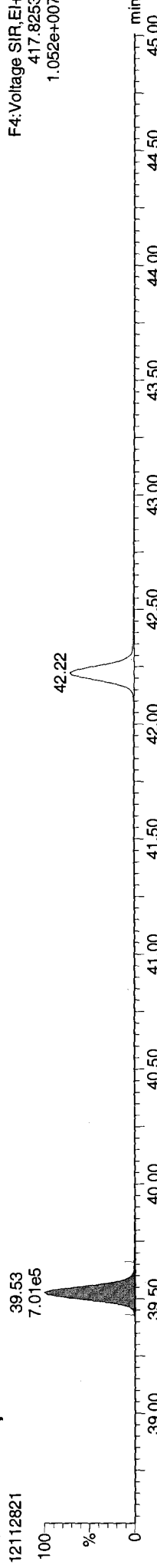


Quantify Sample Report MassLynx 4.1 SCN 714

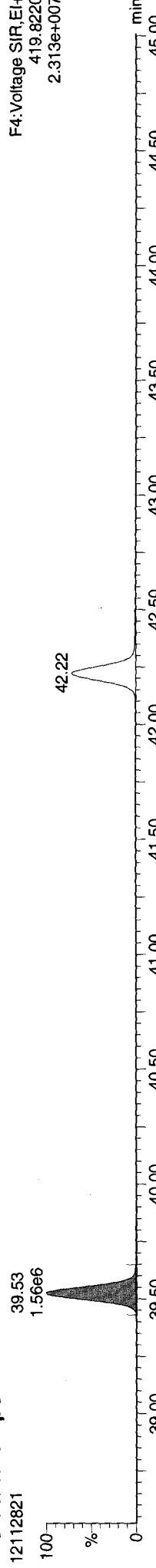
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

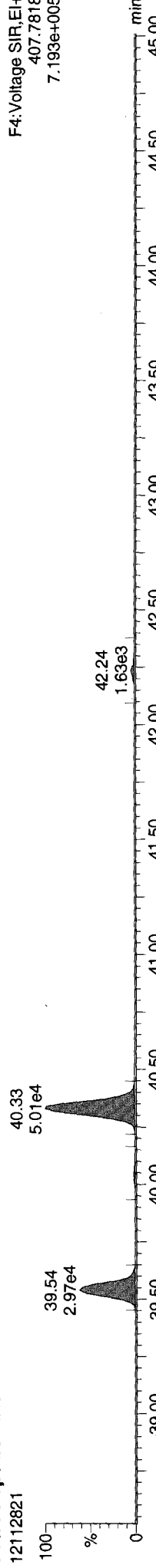
13C-1234678-HpCDF



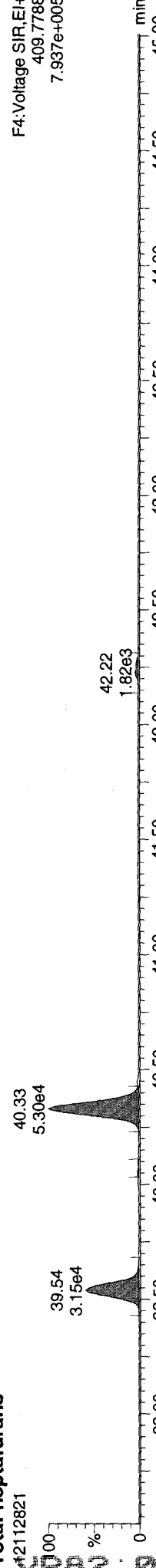
13C-1234678-HpCDF



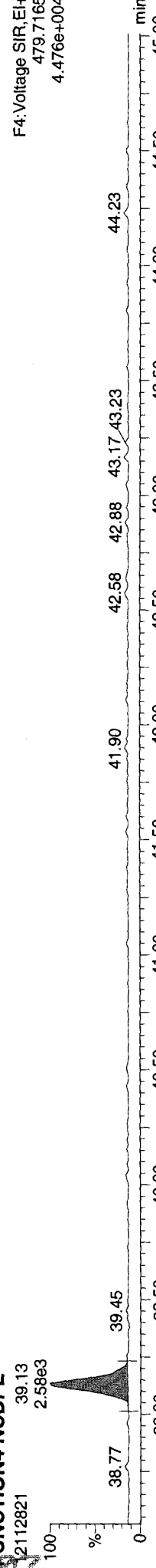
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



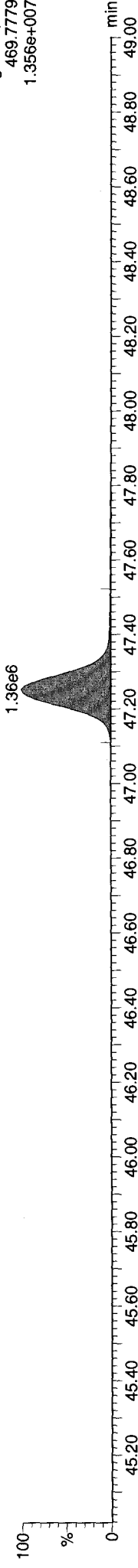
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR62C, Conditions: AUTOSPEC01, User: pk

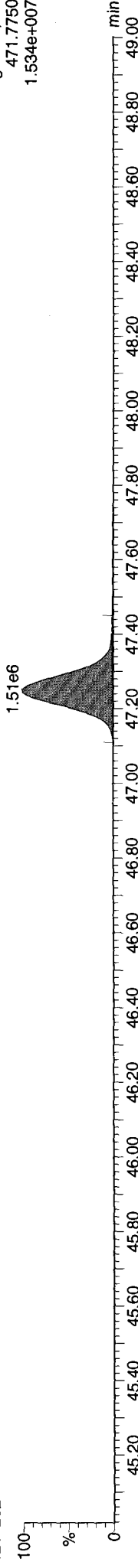
13C-OCDD

12112821



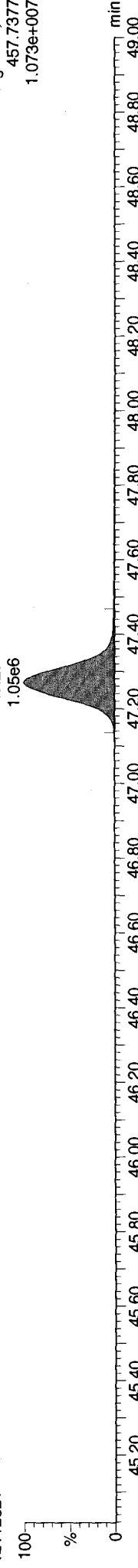
13C-OCDD

12112821



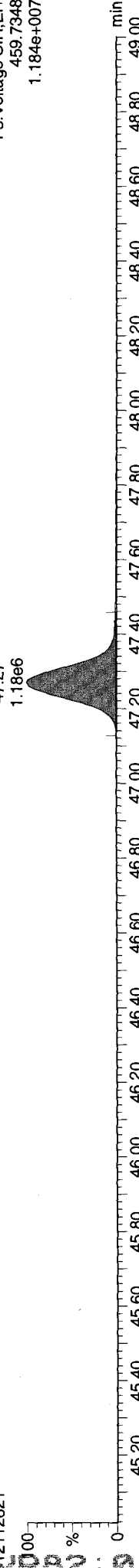
OCDD

12112821



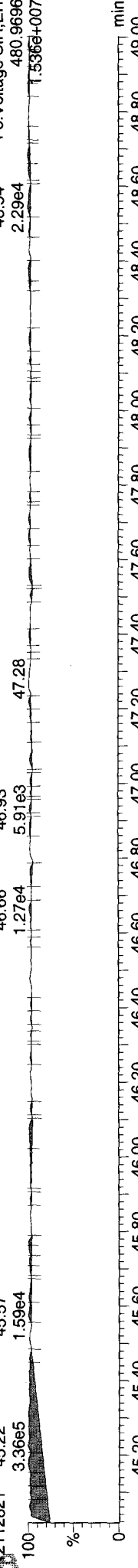
OCDD

12112821



FUNCTION5 PFK

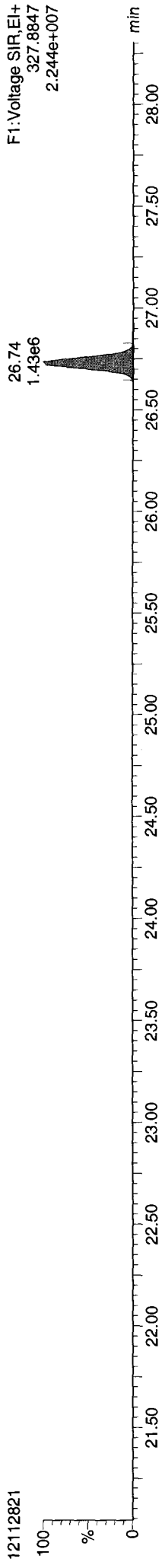
12112821



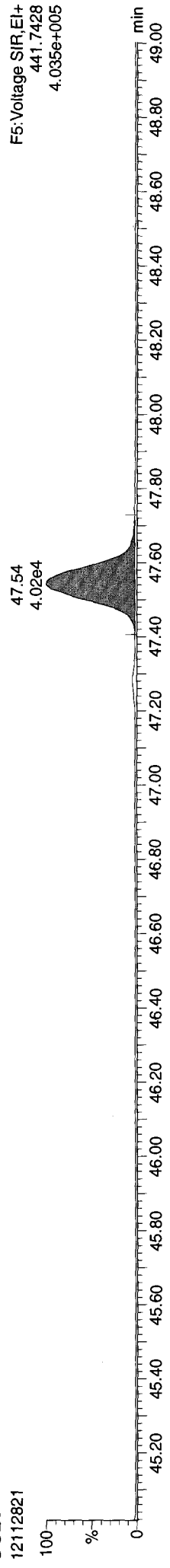
Dataset: F:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
Printed: Tuesday, December 11, 2012 10:10:54 Pacific Standard Time

Name: 12112821, Date: 29-Nov-2012, Time: 03:35:35, ID: VR82C, Conditions: AUTOSPEC01, User: pk

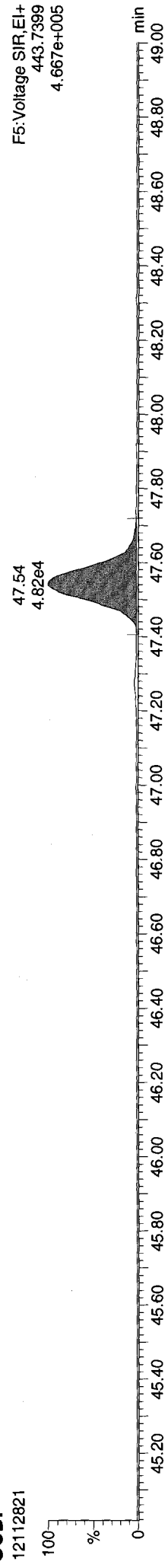
37CL-2378-TCDD



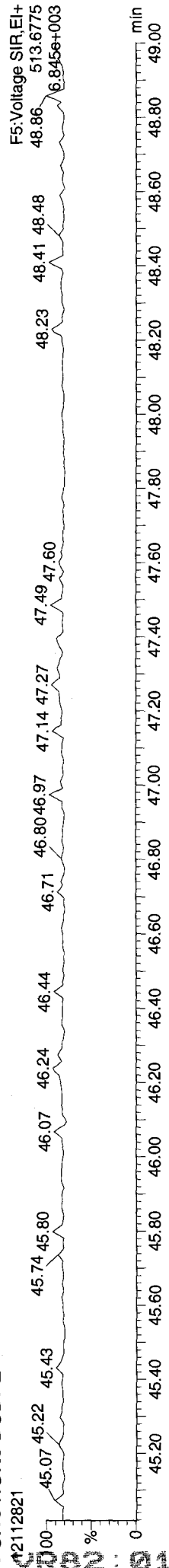
OCDF



OCDF



FUNCTION5 DCDPE



12112821

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

pk 12/11/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

	Name	RT	RRT	Ion Area	Ion2Area	RRF	Ratio	Prep R	SN	Noise 1	Height 1	Height 2	EMPC 1	EMPC 2	pg
1	2378-TCDF	26.063	1.001	7.32e2	1.09e3	0.877	0.674	0.770	6.3	1749	3034	1.11e4	1.64e4	NO	0.051
2	12378-PeCDF	30.201	1.000	1.16e3	7.94e2	0.896	1.463	1.550	9.5	2037	1841	1.94e4	1.15e4	NO	0.061
3	23478-PeCDF	31.549	1.000	9.50e2	7.63e2	0.926	1.245	1.550	8.0	2037	1841	1.64e4	1.22e4	YES	0.054
4	123478-HxCDF	35.232	1.001	2.42e3	1.71e3	1.068	1.411	1.240	18.3	1885	936	3.45e4	3.30e4	NO	0.141
5	234678-HxCDF	36.317	1.000	2.68e3	2.18e3	1.037	1.230	1.240	15.8	1885	936	2.97e4	2.55e4	NO	0.178
6	123678-HxCDF	35.375	1.000	1.92e3	1.39e3	1.035	1.381	1.240	16.6	1885	936	3.12e4	1.93e4	NO	0.110
7	123789-HxCDF	37.435	1.000	6.62e2	8.32e2	0.987	0.795	1.240	6.2	1885	936	1.18e4	1.15e4	YES	0.049
8	1234678-HpCDF	39.529	1.001	2.47e4	2.56e4	1.232	0.966	1.050	350.6	1023	1201	3.59e5	3.75e5	NO	1.779
9	1234789-HpCDF	42.226	1.001	1.30e3	1.14e3	1.215	1.140	1.050	20.4	1023	1201	2.09e4	1.75e4	NO	0.108
10	OCDF	47.522	1.006	3.93e4	4.72e4	1.138	0.832	0.890	857.9	441	619	3.78e5	4.45e5	NO	4.907
11	2378-TCDD	26.691	1.000	2.79e2	1.21e3	1.049	0.231	0.770	3.3	1916	1342	6.36e3	2.25e4	YES	0.022
12	12378-PeCDD	31.812	1.001	1.13e3	8.10e2	0.998	1.398	1.550	12.1	1462	1038	1.77e4	1.33e4	NO	0.087
13	123478-HxCDD	36.482	1.001	2.06e3	1.48e3	0.971	1.396	1.240	29.4	1339	1046	3.93e4	2.15e4	NO	0.160
14	123678-HxCDD	36.602	1.000	7.09e3	6.01e3	0.918	1.180	1.240	88.0	1339	1046	1.18e5	9.27e4	NO	0.592
15	123789-HxCDD	37.019	1.012	4.36e3	3.39e3	0.932	1.288	1.240	45.8	1339	1046	6.13e4	4.84e4	NO	0.355
16	1234678-HpCDD	41.398	1.001	1.48e5	1.48e5	1.017	1.003	1.050	935.8	2174	2412	2.03e6	1.96e6	NO	14.046
17	OCDD	47.253	1.000	8.45e5	9.69e5	1.008	0.872	0.890	5783.6	1489	1495	8.61e6	1.00e7	NO	116.122
18	13C-2378-TCDF	26.048	1.007	1.77e6	2.29e6	1.473	0.773	0.770	8555.9	3256	1823	2.79e7	3.60e7	NO	75.546
19	13C-12378-PeCDF	30.190	1.167	2.18e6	1.40e6	1.148	1.557	1.550	9133.4	3824	2484	3.49e7	2.24e7	NO	85.414
20	13C-23478-PeCDF	31.538	1.219	2.10e6	1.35e6	1.113	1.555	1.550	8754.9	3824	2484	3.35e7	2.13e7	NO	84.722
21	13C-123478-HxCDF	35.210	0.951	9.31e5	1.82e6	1.209	0.512	0.510	4087.4	3564	3980	1.46e7	2.85e7	NO	81.794
22	13C-123678-HxCDF	35.364	0.955	9.94e5	1.93e6	1.269	0.515	0.510	4281.1	3564	3980	1.53e7	2.99e7	NO	82.896
23	13C-234678-HxCDF	36.317	0.981	8.97e5	1.73e6	1.236	0.517	0.510	3837.3	3564	3980	1.37e7	2.63e7	NO	76.554
24	13C-123789-HxCDF	37.446	1.012	1.06e6	2.03e6	1.107	0.523	0.510	4849.9	3564	3980	1.73e7	3.27e7	NO	100.433
25	13C-1234678-HpCDF	39.507	1.067	7.08e5	1.59e6	1.051	0.446	0.440	2929.2	3828	2633	1.06e7	2.39e7	NO	78.448
26	13C-1234789-HpCDF	42.204	1.140	5.75e5	1.28e6	0.815	0.449	0.440	2020.2	3828	2633	7.33e6	1.66e7	NO	81.932
27	13C-1234-TCDD	25.869	0.000	1.61e6	2.04e6	1.000	0.787	0.770	7673.7	3283	1909	2.52e7	3.20e7	NO	100.000
28	13C-2378-TCDD	26.691	1.032	1.24e6	1.60e6	0.946	0.776	0.770	5927.5	3283	1909	1.95e7	2.52e7	NO	82.259
29	13C-12378-PeCDD	31.790	1.229	1.38e6	8.67e5	0.721	1.588	1.550	13643.1	1600	1715	2.18e7	1.38e7	NO	85.286
30	13C-123478-HxCDD	36.460	0.985	1.28e6	1.00e6	0.991	1.269	1.240	5861.2	3252	2268	1.91e7	1.51e7	NO	82.744
31	13C-123678-HxCDD	36.591	0.988	1.34e6	1.07e6	1.025	1.258	1.240	6313.1	3252	2268	2.05e7	1.65e7	NO	84.596
32	13C-1234678-HpCDD	41.316	1.116	1.06e6	1.01e6	0.866	1.048	1.050	5135.0	2792	3103	1.43e7	1.37e7	NO	85.911
33	13C-OCDD	47.236	1.276	1.46e6	1.64e6	0.769	0.888	0.890	11411.0	1305	2055	1.49e7	1.69e7	NO	144.901

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC?	EMPC	pg
34	13C-123789-HxCDD	37.019	0.000	1.54e6	1.24e6	1.000	1.245	7199.3	3252	2268	2.34e7	1.90e7	NO		100.000
35	Total-tetrafurans			7.48e3		0.877			1749		1.22e5			0.761	0.493
36	Total-penta1			1.51e4					581		2.38e5			0.789	0.789
37	Total-pentafurans			1.80e3		0.911			2037		3.52e4			0.504	0.061
38	Total-hexafurans			4.43e4		1.032			1885		6.70e5			2.909	2.824
39	Total-heptafurans			6.96e4		1.223			1023		9.97e5			5.425	5.387
40	Total-Furans			1.78e5		1.041			1749		2.44e6			15.294	14.460
41	Total-tetraoxins			1.72e3		1.049			1916		3.28e4			0.250	0.127
42	Total-pentadioxins			6.01e3		0.998			1462		8.66e4			0.668	0.408
43	Total-hexadioxins			5.79e4		0.940			1339		7.58e5			5.030	3.111
44	Total-heptadioxins			4.28e5		1.017			2174		6.13e6			40.339	40.339
45	Total-Dioxins			2.72e7		0.985			1916		3.74e8			15.294	14.460
46	Total-TEQ			2.74e7					1916		3.76e8			30.589	28.920
47	37CL-2378-TCDD	26.706	1.032	1.33e6		1.044		13869.1	1531		2.12e7				35.019
48	FUNCTION1 PFK			1.27e5					596241		3.55e6				0.000
49	FUNCTION2 PFK			2.32e5					174955		6.26e6				0.000
50	FUNCTION3 PFK			1.09e7					359406		4.14e7				
51	FUNCTION4 PFK			4.02e5					283070		1.14e7				0.000
52	FUNCTION5 PFK			5.61e5					261383		1.64e7				0.000
53	FUNCTION1 HXCDPE			1.24e2					436		2.78e3				0.000
54	FUNCTION1 HPCDPE			6.02e2					861		1.22e4				0.000
55	FUNCTION2 HPCDPE			3.71e2					902		1.02e4				0.000
56	FUNCTION3 OCCDPE			0.00e0					400		0.00e0				0.000
57	FUNCTION4 NCDPE			2.41e3					467		4.53e4				0.000
58	FUNCTION5 DCDDPE			0.00e0					209		0.00e0				0.000

12112822 : 04 01 12

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
35	Total-tetrafurans	303.9016	24.33	1064.921	0.877	0.030	0.030	0.80	0.77	NO	5.0
35	Total-tetrafurans	303.9016	24.17	1153.673	0.877	0.032	0.032	0.70	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.08	1932.770	0.877	0.054	0.054	0.73	0.77	NO	8.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.016	1.25	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.033	0.56	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.018	0.49	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.60	0.000	0.877	0.000	0.039	0.59	0.77	YES	4.9
35	Total-tetrafurans	303.9016	23.40	5630.496	0.877	0.158	0.158	0.71	0.77	NO	22.7
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.027	0.55	0.77	YES	4.7
35	Total-tetrafurans	303.9016	22.55	836.898	0.877	0.024	0.024	0.66	0.77	NO	2.7
35	Total-tetrafurans	303.9016	27.48	0.000	0.877	0.000	0.020	0.64	0.77	YES	2.2
35	Total-tetrafurans	303.9016	26.30	1722.197	0.877	0.048	0.048	0.80	0.77	NO	7.3
35	Total-tetrafurans	303.9016	26.21	646.261	0.877	0.018	0.018	0.68	0.77	NO	2.5
1	2378-TCDF	303.9016	26.06	1817.297	0.877	0.051	0.051	0.67	0.77	NO	6.3
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.024	1.00	0.77	YES	3.6
35	Total-tetrafurans	303.9016	25.15	0.000	0.877	0.000	0.038	1.00	0.77	YES	6.4
35	Total-tetrafurans	303.9016	24.97	2748.405	0.877	0.077	0.077	0.88	0.77	NO	11.3
35	Total-tetrafurans	303.9016	24.81	0.000	0.877	0.000	0.024	0.58	0.77	YES	3.2
35	Total-tetrafurans	303.9016	24.73	0.000	0.877	0.000	0.029	0.65	0.77	YES	4.9

PP

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
36	Total-penta1	339.8597	27.48	25398.296		0.789	0.789	1.46	1.55	NO	410.3

PF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.045	1.26	1.55	YES	8.8
37	Total-pentafurans	339.8597	30.41	0.000	0.911	0.000	0.034	1.42	1.55	NO	7.7
2	12378-PeCDF	339.8597	30.20	1956.695	0.896	0.061	0.061	1.46	1.55	NO	9.5
37	Total-pentafurans	339.8597	29.85	0.000	0.911	0.000	0.072	1.29	1.55	YES	10.3
37	Total-pentafurans	339.8597	29.13	0.000	0.911	0.000	0.138	1.00	1.55	YES	20.4
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.077	1.96	1.55	YES	18.9
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.028	0.61	1.55	YES	5.9
3	23478-PeCDF	339.8597	31.55	1713.683	0.926	0.000	0.049	1.25	1.55	YES	8.0

VR82 : 01012

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
4	123478-HxCDF	373.8208	35.23	4131.351	1.068	0.141	0.141	1.41	1.24	NO	18.3
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.024	1.53	1.24	YES	5.8
38	Total-hexafurans	373.8208	34.59	29614.499	1.032	1.008	1.008	1.05	1.24	NO	123.2
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.014	1.91	1.24	YES	4.1
38	Total-hexafurans	373.8208	33.72	29870.414	1.032	1.017	1.017	1.19	1.24	NO	131.2
38	Total-hexafurans	373.8208	33.50	10905.123	1.032	0.371	0.371	1.16	1.24	NO	50.3
7	123789-HxCDF	373.8208	37.44	1493.430	0.987	0.000	0.039	0.80	1.24	YES	6.2
5	234678-HxCDF	373.8208	36.32	4854.757	1.037	0.178	0.178	1.23	1.24	NO	15.8
6	123678-HxCDF	373.8208	35.37	3318.357	1.035	0.110	0.110	1.38	1.24	NO	16.6
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.007	0.33	1.24	YES	2.3

HPF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
9	1234789-HpCDF	407.7818	42.23	2431.887	1.215	0.108	0.108	1.14	1.05	NO	20.4
39	Total-heptafurans	407.7818	40.32	88819.894	1.223	3.500	3.500	0.97	1.05	NO	603.8
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.038	1.62	1.05	YES	9.7
8	1234678-HpCDF	407.7818	39.53	50257.865	1.232	1.779	1.779	0.97	1.05	NO	350.6

VR82: 01013

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	PPF M	pg	EMPC	1 st Rat.	1 st Rat.	1 st P.	S/N
35	Total-tetrafurans	303.9016	24.33	1064.921	0.877	0.030	0.030	0.80	0.77	NO	5.0
35	Total-tetrafurans	303.9016	24.17	1153.673	0.877	0.032	0.032	0.70	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.08	1932.770	0.877	0.054	0.054	0.73	0.77	NO	8.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.016	1.25	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.033	0.56	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.018	0.49	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.60	0.000	0.877	0.000	0.039	0.59	0.77	YES	4.9
35	Total-tetrafurans	303.9016	23.40	5630.496	0.877	0.158	0.158	0.71	0.77	NO	22.7
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.027	0.55	0.77	YES	4.7
35	Total-tetrafurans	303.9016	22.55	836.898	0.877	0.024	0.024	0.66	0.77	NO	2.7
35	Total-tetrafurans	303.9016	27.48	0.000	0.877	0.000	0.020	0.64	0.77	YES	2.2
35	Total-tetrafurans	303.9016	26.30	1722.197	0.877	0.048	0.048	0.80	0.77	NO	7.3
35	Total-tetrafurans	303.9016	26.21	646.261	0.877	0.018	0.018	0.68	0.77	NO	2.5
1	2378-TCDF	303.9016	26.06	1817.297	0.877	0.051	0.051	0.67	0.77	NO	6.3
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.024	1.00	0.77	YES	3.6
35	Total-tetrafurans	303.9016	25.15	0.000	0.877	0.000	0.038	1.00	0.77	YES	6.4
35	Total-tetrafurans	303.9016	24.97	2748.405	0.877	0.077	0.077	0.88	0.77	NO	11.3
35	Total-tetrafurans	303.9016	24.81	0.000	0.877	0.000	0.024	0.58	0.77	YES	3.2
35	Total-tetrafurans	303.9016	24.73	0.000	0.877	0.000	0.029	0.65	0.77	YES	4.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.045	1.26	1.55	YES	8.8
37	Total-pentafurans	339.8597	30.41	0.000	0.911	0.000	0.034	1.42	1.55	NO	7.7
2	12378-PeCDF	339.8597	30.20	1956.695	0.896	0.061	0.061	1.46	1.55	NO	9.5
37	Total-pentafurans	339.8597	29.85	0.000	0.911	0.000	0.072	1.29	1.55	YES	10.3
37	Total-pentafurans	339.8597	29.13	0.000	0.911	0.000	0.138	1.00	1.55	YES	20.4
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.077	1.96	1.55	YES	18.9
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.028	0.61	1.55	YES	5.9
3	23478-PeCDF	339.8597	31.55	1713.683	0.926	0.000	0.049	1.25	1.55	YES	8.0
4	123478-HxCDF	373.8208	35.23	4131.351	1.068	0.141	0.141	1.41	1.24	NO	18.3
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.024	1.53	1.24	YES	5.8
38	Total-hexafurans	373.8208	34.59	29614.499	1.032	1.008	1.008	1.05	1.24	NO	123.2
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.014	1.91	1.24	YES	4.1
38	Total-hexafurans	373.8208	33.72	29870.414	1.032	1.017	1.017	1.19	1.24	NO	131.2
38	Total-hexafurans	373.8208	33.50	10905.123	1.032	0.371	0.371	1.16	1.24	NO	50.3
7	123789-HxCDF	373.8208	37.44	1493.430	0.987	0.000	0.039	0.80	1.24	YES	6.2
5	234678-HxCDF	373.8208	36.32	4854.757	1.037	0.178	0.178	1.23	1.24	NO	15.8
6	123678-HxCDF	373.8208	35.37	3318.357	1.035	0.110	0.110	1.38	1.24	NO	16.6
9	1234789-HpCDF	407.7818	42.23	2431.887	1.215	0.108	0.108	1.14	1.05	NO	20.4
39	Total-heptafurans	407.7818	40.32	88819.894	1.223	3.500	3.500	0.97	1.05	NO	603.8
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.038	1.62	1.05	YES	9.7
8	1234678-HpCDF	407.7818	39.53	50257.865	1.232	1.779	1.779	0.97	1.05	NO	350.6
10	OCDF	441.7428	47.52	86481.985	1.138	4.907	4.907	0.83	0.89	NO	857.9
36	Total-penta1	339.8597	27.48	25398.296	0.789	0.789	0.789	1.46	1.55	NO	410.3
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.007	0.33	1.24	YES	2.3

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TD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
41	Total-tetradoxins	319.8965	23.85	2122.433	1.049	0.071	0.071	0.86	0.77	NO	9.1
11	2378-TCDD	319.8965	26.69	1487.533	1.049	0.000	0.022	0.23	0.77	YES	3.3
41	Total-tetradoxins	319.8965	25.33	0.000	1.049	0.000	0.031	1.07	0.77	YES	5.1
41	Total-tetradoxins	319.8965	24.82	0.000	1.049	0.000	0.053	0.93	0.77	YES	5.9
41	Total-tetradoxins	319.8965	24.32	0.000	1.049	0.000	0.017	0.49	0.77	YES	2.3
41	Total-tetradoxins	319.8965	24.12	1669.584	1.049	0.056	0.056	0.79	0.77	NO	8.1

PD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
42	Total-pentadoxins	355.8546	30.77	0.000	0.998	0.000	0.033	1.46	1.55	NO	9.1
42	Total-pentadoxins	355.8546	30.72	0.000	0.998	0.000	0.050	1.18	1.55	YES	10.1
42	Total-pentadoxins	355.8546	30.56	0.000	0.998	0.000	0.060	1.85	1.55	YES	12.4
42	Total-pentadoxins	355.8546	30.43	0.000	0.998	0.000	0.056	1.21	1.55	YES	11.2
42	Total-pentadoxins	355.8546	30.21	1988.555	0.998	0.089	0.089	1.77	1.55	NO	12.6
42	Total-pentadoxins	355.8546	29.60	0.000	0.998	0.000	0.061	1.06	1.55	YES	9.6
42	Total-pentadoxins	355.8546	29.12	4502.555	0.998	0.201	0.201	1.53	1.55	NO	19.8
42	Total-pentadoxins	355.8546	32.20	696.726	0.998	0.031	0.031	1.70	1.55	NO	5.6
12	12378-PeCDD	355.8546	31.81	1943.012	0.998	0.087	0.087	1.40	1.55	NO	12.1

HD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
15	123789-HxCDD	389.8157	37.02	7751.065	0.932	0.355	0.355	1.29	1.24	NO	45.8
43	Total-hexadoxins	389.8157	36.79	2731.365	0.940	0.124	0.124	1.26	1.24	NO	16.8
14	123678-HxCDD	389.8157	36.60	13104.696	0.918	0.592	0.592	1.18	1.24	NO	88.0
13	123478-HxCDD	389.8157	36.48	3543.480	0.971	0.160	0.160	1.40	1.24	NO	29.4
43	Total-hexadoxins	389.8157	35.62	5293.659	0.940	0.240	0.240	1.21	1.24	NO	33.8
43	Total-hexadoxins	389.8157	35.51	0.000	0.940	0.000	1.628	1.21	1.24	NO	139.7
43	Total-hexadoxins	389.8157	35.11	0.000	0.940	0.000	0.292	1.55	1.24	YES	54.3
43	Total-hexadoxins	389.8157	34.31	36160.913	0.940	1.640	1.640	1.28	1.24	NO	212.9

HPD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
16	1234678-HpCDD	423.7766	41.34	295531.344	1.017	14.046	14.046	1.00	1.05	NO	935.8
44	Total-heptadoxins	423.7766	40.08	553193.438	1.017	26.293	26.293	1.02	1.05	NO	1886.4

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	SN
35	Total-tetrafurans	303.9016	24.33	1064.921	0.877	0.030	0.030	0.80	0.77	NO	5.0
35	Total-tetrafurans	303.9016	24.17	1153.673	0.877	0.032	0.032	0.70	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.08	1932.770	0.877	0.054	0.054	0.73	0.77	NO	8.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.016	1.25	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.033	0.56	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.018	0.49	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.60	0.000	0.877	0.000	0.039	0.59	0.77	YES	4.9
35	Total-tetrafurans	303.9016	23.40	5630.496	0.877	0.158	0.158	0.71	0.77	NO	22.7
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.027	0.55	0.77	YES	4.7
35	Total-tetrafurans	303.9016	22.55	836.898	0.877	0.024	0.024	0.66	0.77	NO	2.7
35	Total-tetrafurans	303.9016	27.48	0.000	0.877	0.000	0.020	0.64	0.77	YES	2.2
35	Total-tetrafurans	303.9016	26.30	1722.197	0.877	0.048	0.048	0.80	0.77	NO	7.3
35	Total-tetrafurans	303.9016	26.21	646.261	0.877	0.018	0.018	0.68	0.77	NO	2.5
1	2378-TCDF	303.9016	26.06	1817.297	0.877	0.051	0.051	0.67	0.77	NO	6.3
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.024	1.00	0.77	YES	3.6
35	Total-tetrafurans	303.9016	25.15	0.000	0.877	0.000	0.038	1.00	0.77	YES	6.4
35	Total-tetrafurans	303.9016	24.97	2748.405	0.877	0.077	0.077	0.88	0.77	NO	11.3
35	Total-tetrafurans	303.9016	24.81	0.000	0.877	0.000	0.024	0.58	0.77	YES	3.2
35	Total-tetrafurans	303.9016	24.73	0.000	0.877	0.000	0.029	0.65	0.77	YES	4.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.045	1.26	1.55	YES	8.8
37	Total-pentafurans	339.8597	30.41	0.000	0.911	0.000	0.034	1.42	1.55	NO	7.7
2	12378-PeCDF	339.8597	30.20	1956.695	0.896	0.061	0.061	1.46	1.55	NO	9.5
37	Total-pentafurans	339.8597	29.85	0.000	0.911	0.000	0.072	1.29	1.55	YES	10.3
37	Total-pentafurans	339.8597	29.13	0.000	0.911	0.000	0.138	1.00	1.55	YES	20.4
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.077	1.96	1.55	YES	18.9
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.028	0.61	1.55	YES	5.9
3	23478-PeCDF	339.8597	31.55	1713.683	0.926	0.054	0.049	1.25	1.55	YES	8.0
4	123478-HxCDF	373.8208	35.23	4131.351	1.068	0.141	0.141	1.41	1.24	NO	18.3
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.024	1.53	1.24	YES	5.8
38	Total-hexafurans	373.8208	34.59	29614.499	1.032	1.008	1.008	1.05	1.24	NO	123.2
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.014	1.91	1.24	YES	4.1
38	Total-hexafurans	373.8208	33.72	29870.414	1.032	1.017	1.017	1.19	1.24	NO	131.2
38	Total-hexafurans	373.8208	33.50	10905.123	1.032	0.371	0.371	1.16	1.24	NO	50.3
7	123789-HxCDF	373.8208	37.44	1493.430	0.987	0.049	0.039	0.80	1.24	YES	6.2
5	234678-HxCDF	373.8208	36.32	4854.757	1.037	0.178	0.178	1.23	1.24	NO	15.8
6	123678-HxCDF	373.8208	35.37	3318.357	1.035	0.110	0.110	1.38	1.24	NO	16.6
9	1234789-HpCDF	407.7818	42.23	2431.887	1.215	0.108	0.108	1.14	1.05	NO	20.4
39	Total-heptafurans	407.7818	40.32	88819.894	1.223	3.500	3.500	0.97	1.05	NO	603.8
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.038	1.62	1.05	YES	9.7
8	1234678-HpCDF	407.7818	39.53	50257.865	1.232	1.779	1.779	0.97	1.05	NO	350.6
10	OCDF	441.7428	47.52	86481.985	1.138	4.907	4.907	0.83	0.89	NO	857.9
36	Total-penta1	339.8597	27.48	25398.296		0.789	0.789	1.46	1.55	NO	410.3
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.007	0.33	1.24	YES	2.3

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
35	Total-tetrafurans	303.9016	24.33	1064.921	0.877	0.030	0.030	0.80	0.77	NO	5.0
35	Total-tetrafurans	303.9016	24.17	1153.673	0.877	0.032	0.032	0.70	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.08	1932.770	0.877	0.054	0.054	0.73	0.77	NO	8.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.016	1.25	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.033	0.56	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.018	0.49	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.60	0.000	0.877	0.000	0.039	0.59	0.77	YES	4.9
35	Total-tetrafurans	303.9016	23.40	5630.496	0.877	0.158	0.158	0.71	0.77	NO	22.7
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.027	0.55	0.77	YES	4.7
35	Total-tetrafurans	303.9016	22.55	836.898	0.877	0.024	0.024	0.66	0.77	NO	2.7
35	Total-tetrafurans	303.9016	27.48	0.000	0.877	0.000	0.020	0.64	0.77	YES	2.2
35	Total-tetrafurans	303.9016	26.30	1722.197	0.877	0.048	0.048	0.80	0.77	NO	7.3
35	Total-tetrafurans	303.9016	26.21	646.261	0.877	0.018	0.018	0.68	0.77	NO	2.5
1	2378-TCDF	303.9016	26.06	1817.297	0.877	0.051	0.051	0.67	0.77	NO	6.3
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.024	1.00	0.77	YES	3.6
35	Total-tetrafurans	303.9016	25.15	0.000	0.877	0.000	0.038	1.00	0.77	YES	6.4
35	Total-tetrafurans	303.9016	24.97	2748.405	0.877	0.077	0.077	0.88	0.77	NO	11.3
35	Total-tetrafurans	303.9016	24.81	0.000	0.877	0.000	0.024	0.58	0.77	YES	3.2
35	Total-tetrafurans	303.9016	24.73	0.000	0.877	0.000	0.029	0.65	0.77	YES	4.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.045	1.26	1.55	YES	8.8
37	Total-pentafurans	339.8597	30.41	0.000	0.911	0.000	0.034	1.42	1.55	NO	7.7
2	12378-PeCDF	339.8597	30.20	1956.695	0.896	0.061	0.061	1.46	1.55	NO	9.5
37	Total-pentafurans	339.8597	29.85	0.000	0.911	0.000	0.072	1.29	1.55	YES	10.3
37	Total-pentafurans	339.8597	29.13	0.000	0.911	0.000	0.138	1.00	1.55	YES	20.4
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.077	1.96	1.55	YES	18.9
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.028	0.61	1.55	YES	5.9
3	23478-PeCDF	339.8597	31.55	1713.683	0.926	0.000	0.049	1.25	1.55	YES	8.0
4	123478-HxCDF	373.8208	35.23	4131.351	1.068	0.141	0.141	1.41	1.24	NO	18.3
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.024	1.53	1.24	YES	5.8
38	Total-hexafurans	373.8208	34.59	29614.499	1.032	1.008	1.008	1.05	1.24	NO	123.2
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.014	1.91	1.24	YES	4.1
38	Total-hexafurans	373.8208	33.72	29870.414	1.032	1.017	1.017	1.19	1.24	NO	131.2
38	Total-hexafurans	373.8208	33.50	10905.123	1.032	0.371	0.371	1.16	1.24	NO	50.3
7	123789-HxCDF	373.8208	37.44	1493.430	0.987	0.000	0.039	0.80	1.24	YES	6.2
5	234678-HxCDF	373.8208	36.32	4854.757	1.037	0.178	0.178	1.23	1.24	NO	15.8
6	123678-HxCDF	373.8208	35.37	3318.357	1.035	0.110	0.110	1.38	1.24	NO	16.6
9	1234789-HpCDF	407.7818	42.23	2431.887	1.215	0.108	0.108	1.14	1.05	NO	20.4
39	Total-heptafurans	407.7818	40.32	88819.894	1.223	3.500	3.500	0.97	1.05	NO	603.8
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.038	1.62	1.05	YES	9.7
8	1234678-HpCDF	407.7818	39.53	50257.865	1.232	1.779	1.779	0.97	1.05	NO	350.6
10	OCDF	441.7428	47.52	86481.985	1.138	4.907	4.907	0.83	0.89	NO	857.9
36	Total-penta1	339.8597	27.48	25398.296		0.789	0.789	1.46	1.55	NO	410.3
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.007	0.33	1.24	YES	2.3
35	Total-tetrafurans	303.9016	24.33	1064.921	0.877	0.030	0.030	0.80	0.77	NO	5.0
35	Total-tetrafurans	303.9016	24.17	1153.673	0.877	0.032	0.032	0.70	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.08	1932.770	0.877	0.054	0.054	0.73	0.77	NO	8.1
35	Total-tetrafurans	303.9016	23.90	0.000	0.877	0.000	0.016	1.25	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.033	0.56	0.77	YES	4.2
35	Total-tetrafurans	303.9016	23.72	0.000	0.877	0.000	0.018	0.49	0.77	YES	4.2

VR82: 01017

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 ^o Rat.	1 ^o Rat.	1 ^o R.	S/N
35	Total-tetrafurans	303.9016	23.60	0.000	0.877	0.000	0.039	0.59	0.77	YES	4.9
35	Total-tetrafurans	303.9016	23.40	5630.496	0.877	0.158	0.158	0.71	0.77	NO	22.7
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.027	0.55	0.77	YES	4.7
35	Total-tetrafurans	303.9016	22.55	836.898	0.877	0.024	0.024	0.66	0.77	NO	2.7
35	Total-tetrafurans	303.9016	27.48	0.000	0.877	0.000	0.020	0.64	0.77	YES	2.2
35	Total-tetrafurans	303.9016	26.30	1722.197	0.877	0.048	0.048	0.80	0.77	NO	7.3
35	Total-tetrafurans	303.9016	26.21	646.261	0.877	0.018	0.018	0.68	0.77	NO	2.5
1	2378-TCDF	303.9016	26.06	1817.297	0.877	0.051	0.051	0.67	0.77	NO	6.3
35	Total-tetrafurans	303.9016	25.87	0.000	0.877	0.000	0.024	1.00	0.77	YES	3.6
35	Total-tetrafurans	303.9016	25.15	0.000	0.877	0.000	0.038	1.00	0.77	YES	6.4
35	Total-tetrafurans	303.9016	24.97	2748.405	0.877	0.077	0.077	0.88	0.77	NO	11.3
35	Total-tetrafurans	303.9016	24.81	0.000	0.877	0.000	0.024	0.58	0.77	YES	3.2
35	Total-tetrafurans	303.9016	24.73	0.000	0.877	0.000	0.029	0.65	0.77	YES	4.9
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.045	1.26	1.55	YES	8.8
37	Total-pentafurans	339.8597	30.41	0.000	0.911	0.000	0.034	1.42	1.55	NO	7.7
2	12378-PeCDF	339.8597	30.20	1956.695	0.896	0.061	0.061	1.46	1.55	NO	9.5
37	Total-pentafurans	339.8597	29.85	0.000	0.911	0.000	0.072	1.29	1.55	YES	10.3
37	Total-pentafurans	339.8597	29.13	0.000	0.911	0.000	0.138	1.00	1.55	YES	20.4
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.077	1.96	1.55	YES	18.9
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.028	0.61	1.55	YES	5.9
3	23478-PeCDF	339.8597	31.55	1713.683	0.926	0.000	0.049	1.25	1.55	YES	8.0
4	123478-HxCDF	373.8208	35.23	4131.351	1.068	0.141	0.141	1.41	1.24	NO	18.3
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.024	1.53	1.24	YES	5.8
38	Total-hexafurans	373.8208	34.59	29614.499	1.032	1.008	1.008	1.05	1.24	NO	123.2
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.014	1.91	1.24	YES	4.1
38	Total-hexafurans	373.8208	33.72	29870.414	1.032	1.017	1.017	1.19	1.24	NO	131.2
38	Total-hexafurans	373.8208	33.50	10905.123	1.032	0.371	0.371	1.16	1.24	NO	50.3
7	123789-HxCDF	373.8208	37.44	1493.430	0.987	0.000	0.039	0.80	1.24	YES	6.2
5	234678-HxCDF	373.8208	36.32	4854.757	1.037	0.178	0.178	1.23	1.24	NO	15.8
6	123678-HxCDF	373.8208	35.37	3318.357	1.035	0.110	0.110	1.38	1.24	NO	16.6
9	1234789-HpCDF	407.7818	42.23	2431.887	1.215	0.108	0.108	1.14	1.05	NO	20.4
39	Total-heptafurans	407.7818	40.32	88819.894	1.223	3.500	3.500	0.97	1.05	NO	603.8
39	Total-heptafurans	407.7818	40.04	0.000	1.223	0.000	0.038	1.62	1.05	YES	9.7
8	1234678-HpCDF	407.7818	39.53	50257.865	1.232	1.779	1.779	0.97	1.05	NO	350.6
10	OCDF	441.7428	47.52	86481.985	1.138	4.907	4.907	0.83	0.89	NO	857.9
36	Total-penta1	339.8597	27.48	25398.296		0.789	0.789	1.46	1.55	NO	410.3
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.007	0.33	1.24	YES	2.3

PFK1

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 ^o Rat.	1 ^o Rat.	1 ^o R.	S/N
48	FUNCTION1 PFK	330.9792	27.21	0.000							1.0
48	FUNCTION1 PFK	330.9792	25.21	0.000							1.8
48	FUNCTION1 PFK	330.9792	21.55	0.000							1.5
48	FUNCTION1 PFK	330.9792	21.18	0.000							1.7

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

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Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

PFK2

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	28.82	0.000		0.000					0.7
2	49 FUNCTION2 PFK	366.9792	28.78	0.000		0.000					1.0
3	49 FUNCTION2 PFK	366.9792	28.46	0.000		0.000					1.4
4	49 FUNCTION2 PFK	366.9792	28.42	0.000		0.000					1.2
5	49 FUNCTION2 PFK	366.9792	31.23	0.000		0.000					0.4
6	49 FUNCTION2 PFK	366.9792	31.19	0.000		0.000					1.1
7	49 FUNCTION2 PFK	366.9792	30.98	0.000		0.000					0.8
8	49 FUNCTION2 PFK	366.9792	30.86	0.000		0.000					2.1
9	49 FUNCTION2 PFK	366.9792	30.68	0.000		0.000					1.2
10	49 FUNCTION2 PFK	366.9792	30.51	0.000		0.000					0.9
11	49 FUNCTION2 PFK	366.9792	30.43	0.000		0.000					1.5
12	49 FUNCTION2 PFK	366.9792	30.03	0.000		0.000					0.5
13	49 FUNCTION2 PFK	366.9792	29.92	0.000		0.000					1.1
14	49 FUNCTION2 PFK	366.9792	29.87	0.000		0.000					1.1
15	49 FUNCTION2 PFK	366.9792	29.70	0.000		0.000					2.7
16	49 FUNCTION2 PFK	366.9792	29.64	0.000		0.000					3.0
17	49 FUNCTION2 PFK	366.9792	29.60	0.000		0.000					2.5
18	49 FUNCTION2 PFK	366.9792	29.50	0.000		0.000					1.0
19	49 FUNCTION2 PFK	366.9792	29.09	0.000		0.000					0.4
20	49 FUNCTION2 PFK	366.9792	29.02	0.000		0.000					1.6
21	49 FUNCTION2 PFK	366.9792	33.06	0.000		0.000					1.0
22	49 FUNCTION2 PFK	366.9792	32.77	0.000		0.000					1.4
23	49 FUNCTION2 PFK	366.9792	32.38	0.000		0.000					1.8
24	49 FUNCTION2 PFK	366.9792	32.05	0.000		0.000					1.5
25	49 FUNCTION2 PFK	366.9792	31.51	0.000		0.000					0.9
26	49 FUNCTION2 PFK	366.9792	31.34	0.000		0.000					1.7
27	49 FUNCTION2 PFK	366.9792	31.27	0.000		0.000					1.3

VR82: 01019

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
50	FUNCTION3 PFK	380.9760	35.05	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	34.72	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	34.67	0.000		0.000					1.9
50	FUNCTION3 PFK	380.9760	34.36	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	34.30	0.000		0.000					2.0
50	FUNCTION3 PFK	380.9760	34.17	0.000		0.000					1.0
50	FUNCTION3 PFK	380.9760	33.99	0.000		0.000					2.3
50	FUNCTION3 PFK	380.9760	33.50	0.000		0.000					23.9
50	FUNCTION3 PFK	380.9760	38.22	0.000		0.000					1.4
50	FUNCTION3 PFK	380.9760	37.95	0.000		0.000					5.8
50	FUNCTION3 PFK	380.9760	37.72	0.000		0.000					14.7
50	FUNCTION3 PFK	380.9760	37.45	0.000		0.000					26.9
50	FUNCTION3 PFK	380.9760	37.35	0.000		0.000					25.0
50	FUNCTION3 PFK	380.9760	36.68	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	35.78	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	35.75	0.000		0.000					1.6
50	FUNCTION3 PFK	380.9760	35.59	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	35.53	0.000		0.000					0.5
50	FUNCTION3 PFK	380.9760	35.32	0.000		0.000					0.6

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
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Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	39.57	0.000							1.2
2	51 FUNCTION4 PFK	430.9728	39.34	0.000							2.5
3	51 FUNCTION4 PFK	430.9728	38.66	0.000							1.1
4	51 FUNCTION4 PFK	430.9728	38.62	0.000							0.4
5	51 FUNCTION4 PFK	430.9728	43.39	0.000							0.4
6	51 FUNCTION4 PFK	430.9728	43.23	0.000							0.7
7	51 FUNCTION4 PFK	430.9728	42.74	0.000							2.3
8	51 FUNCTION4 PFK	430.9728	42.69	0.000							0.8
9	51 FUNCTION4 PFK	430.9728	42.17	0.000							1.5
10	51 FUNCTION4 PFK	430.9728	41.93	0.000							0.4
11	51 FUNCTION4 PFK	430.9728	41.75	0.000							0.9
12	51 FUNCTION4 PFK	430.9728	41.67	0.000							1.7
13	51 FUNCTION4 PFK	430.9728	41.55	0.000							1.0
14	51 FUNCTION4 PFK	430.9728	41.28	0.000							2.0
15	51 FUNCTION4 PFK	430.9728	41.25	0.000							1.9
16	51 FUNCTION4 PFK	430.9728	40.57	0.000							1.5
17	51 FUNCTION4 PFK	430.9728	40.49	0.000							1.5
18	51 FUNCTION4 PFK	430.9728	40.23	0.000							1.9
19	51 FUNCTION4 PFK	430.9728	39.93	0.000							1.0
20	51 FUNCTION4 PFK	430.9728	39.81	0.000							1.3
21	51 FUNCTION4 PFK	430.9728	44.65	0.000							0.5
22	51 FUNCTION4 PFK	430.9728	44.60	0.000							2.0
23	51 FUNCTION4 PFK	430.9728	44.35	0.000							1.4
24	51 FUNCTION4 PFK	430.9728	44.24	0.000							1.4
25	51 FUNCTION4 PFK	430.9728	43.98	0.000							2.1
26	51 FUNCTION4 PFK	430.9728	43.90	0.000							0.7
27	51 FUNCTION4 PFK	430.9728	43.86	0.000							1.0
28	51 FUNCTION4 PFK	430.9728	43.75	0.000							1.1
29	51 FUNCTION4 PFK	430.9728	43.65	0.000							2.1
30	51 FUNCTION4 PFK	430.9728	43.61	0.000							1.5
31	51 FUNCTION4 PFK	430.9728	43.43	0.000							0.6

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PFK5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
1	52 FUNCTION5 PFK	480.9696	45.29	0.000							0.7
2	52 FUNCTION5 PFK	480.9696	45.25	0.000							1.1
3	52 FUNCTION5 PFK	480.9696	45.20	0.000							2.0
4	52 FUNCTION5 PFK	480.9696	45.10	0.000							1.0
5	52 FUNCTION5 PFK	480.9696	46.58	0.000							1.1
6	52 FUNCTION5 PFK	480.9696	46.54	0.000							0.6
7	52 FUNCTION5 PFK	480.9696	46.46	0.000							0.9
8	52 FUNCTION5 PFK	480.9696	46.38	0.000							0.8
9	52 FUNCTION5 PFK	480.9696	46.33	0.000							1.0
10	52 FUNCTION5 PFK	480.9696	46.25	0.000							1.4
11	52 FUNCTION5 PFK	480.9696	46.17	0.000							1.6
12	52 FUNCTION5 PFK	480.9696	46.09	0.000							0.9
13	52 FUNCTION5 PFK	480.9696	46.03	0.000							0.9
14	52 FUNCTION5 PFK	480.9696	46.00	0.000							0.7
15	52 FUNCTION5 PFK	480.9696	45.95	0.000							1.2
16	52 FUNCTION5 PFK	480.9696	45.87	0.000							1.8
17	52 FUNCTION5 PFK	480.9696	45.76	0.000							1.6
18	52 FUNCTION5 PFK	480.9696	45.45	0.000							1.0
19	52 FUNCTION5 PFK	480.9696	45.41	0.000							1.2
20	52 FUNCTION5 PFK	480.9696	45.32	0.000							1.1
21	52 FUNCTION5 PFK	480.9696	47.74	0.000							1.1
22	52 FUNCTION5 PFK	480.9696	47.58	0.000							0.3
23	52 FUNCTION5 PFK	480.9696	47.48	0.000							0.7
24	52 FUNCTION5 PFK	480.9696	47.44	0.000							1.5
25	52 FUNCTION5 PFK	480.9696	47.33	0.000							1.7
26	52 FUNCTION5 PFK	480.9696	47.28	0.000							1.9
27	52 FUNCTION5 PFK	480.9696	47.22	0.000							1.5
28	52 FUNCTION5 PFK	480.9696	47.11	0.000							1.5
29	52 FUNCTION5 PFK	480.9696	47.06	0.000							0.7
30	52 FUNCTION5 PFK	480.9696	46.96	0.000							1.7
31	52 FUNCTION5 PFK	480.9696	46.89	0.000							0.9
32	52 FUNCTION5 PFK	480.9696	46.87	0.000							1.5
33	52 FUNCTION5 PFK	480.9696	46.82	0.000							1.1
34	52 FUNCTION5 PFK	480.9696	46.77	0.000							1.0
35	52 FUNCTION5 PFK	480.9696	46.73	0.000							1.0
36	52 FUNCTION5 PFK	480.9696	46.69	0.000							1.1
37	52 FUNCTION5 PFK	480.9696	48.76	0.000							1.0
38	52 FUNCTION5 PFK	480.9696	48.71	0.000							0.3
39	52 FUNCTION5 PFK	480.9696	48.60	0.000							0.8
40	52 FUNCTION5 PFK	480.9696	48.55	0.000							0.9
41	52 FUNCTION5 PFK	480.9696	48.39	0.000							1.7
42	52 FUNCTION5 PFK	480.9696	48.33	0.000							1.3
43	52 FUNCTION5 PFK	480.9696	48.26	0.000							1.0
44	52 FUNCTION5 PFK	480.9696	48.21	0.000							1.3
45	52 FUNCTION5 PFK	480.9696	48.18	0.000							0.8
46	52 FUNCTION5 PFK	480.9696	48.14	0.000							1.1
47	52 FUNCTION5 PFK	480.9696	48.10	0.000							1.7
48	52 FUNCTION5 PFK	480.9696	48.04	0.000							1.2
49	52 FUNCTION5 PFK	480.9696	47.95	0.000							2.5

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	52 FUNCTION5 PFK	480.9696	47.90	0.000							1.3
51	52 FUNCTION5 PFK	480.9696	47.86	0.000							1.5
52	52 FUNCTION5 PFK	480.9696	47.83	0.000							1.5
53	52 FUNCTION5 PFK	480.9696	48.97	0.000							0.7
54	52 FUNCTION5 PFK	480.9696	48.80	0.000							0.4

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	26.35	0.000		0.000					6.4

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	28.08	0.000		0.000					2.3
2	54 FUNCTION1 HPCD...	409.7974	26.69	0.000		0.000					1.5
3	54 FUNCTION1 HPCD...	409.7974	26.29	0.000		0.000					1.9
4	54 FUNCTION1 HPCD...	409.7974	25.72	0.000		0.000					2.2
5	54 FUNCTION1 HPCD...	409.7974	24.97	0.000		0.000					1.4
6	54 FUNCTION1 HPCD...	409.7974	22.93	0.000		0.000					3.1
7	54 FUNCTION1 HPCD...	409.7974	21.89	0.000		0.000					1.9

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.71	0.000		0.000					3.3
2	55 FUNCTION2 HPCD...	409.7974	29.44	0.000		0.000					3.4
3	55 FUNCTION2 HPCD...	409.7974	29.01	0.000		0.000					2.1
4	55 FUNCTION2 HPCD...	409.7974	30.28	0.000		0.000					2.6

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.11	0.000		0.000					97.0

ETHERS6

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

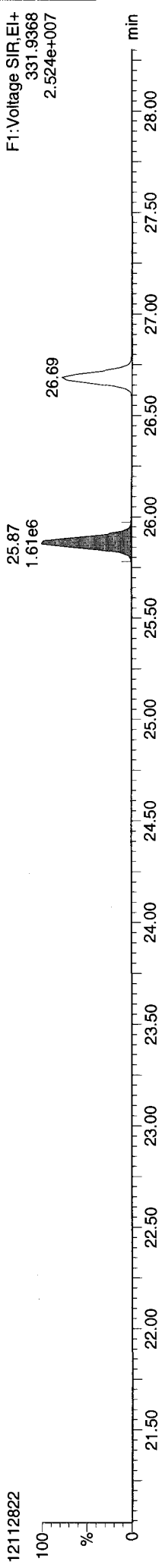
Calibration: P:\DIOXIN8290.PRO\CurvedB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

12112822

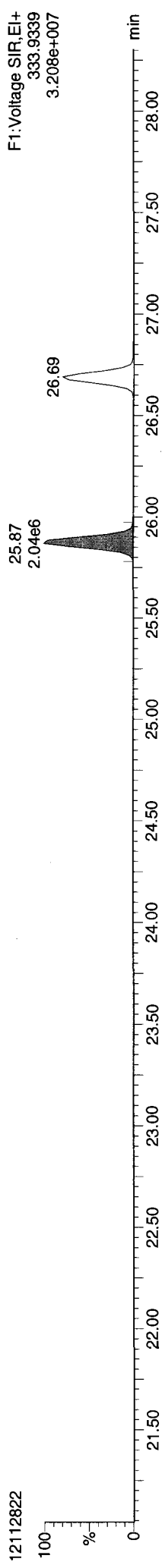
100
%



13C-1234-TCDD

12112822

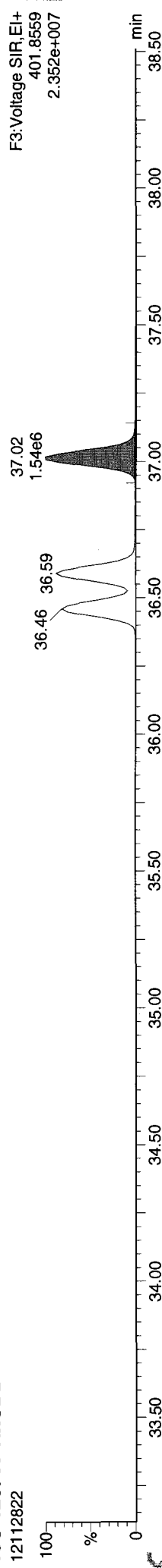
100
%



13C-123789-HxCDD

12112822

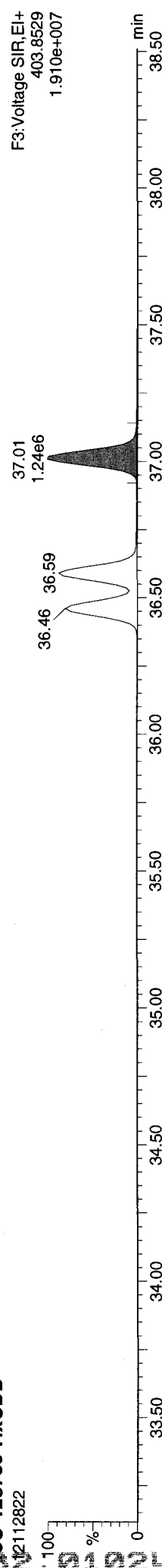
100
%



13C-123789-HxCDD

12112822

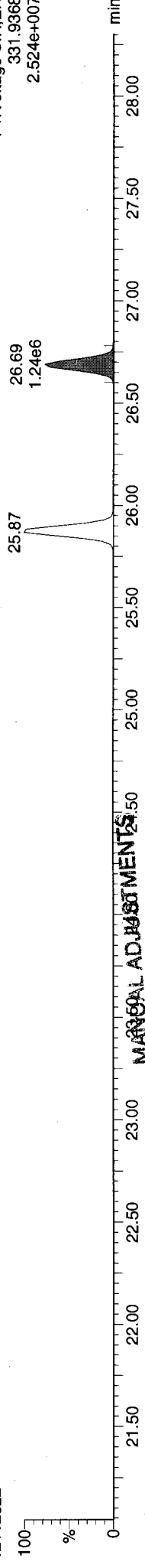
100
%



Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

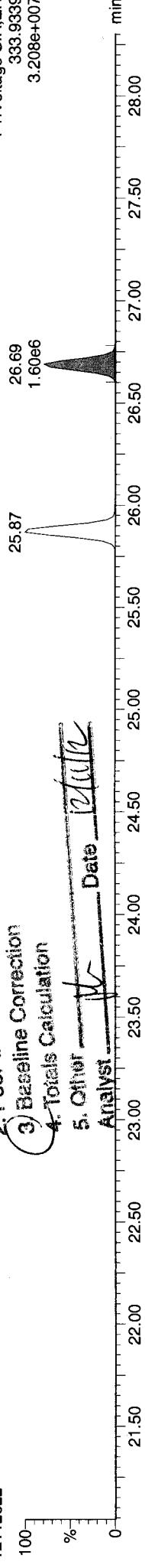
13C-2378-TCDD

12112822



13C-2378-TCDD

12112822

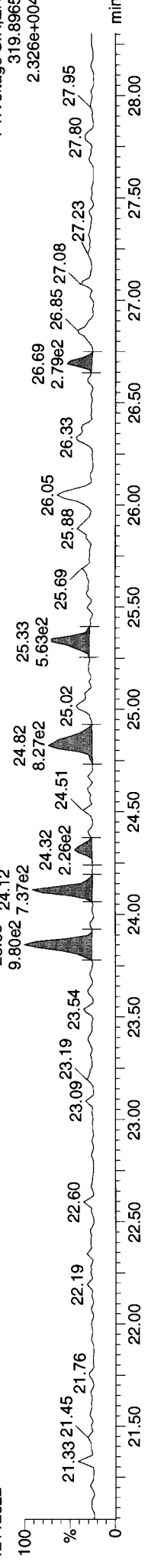


1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: [Signature] Date: 12/11/12

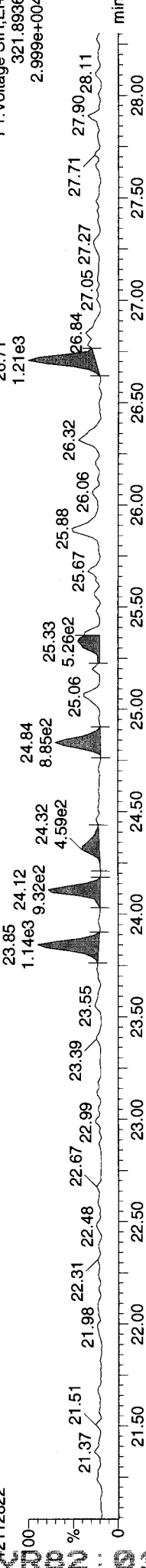
Total-tetradoxins

12112822



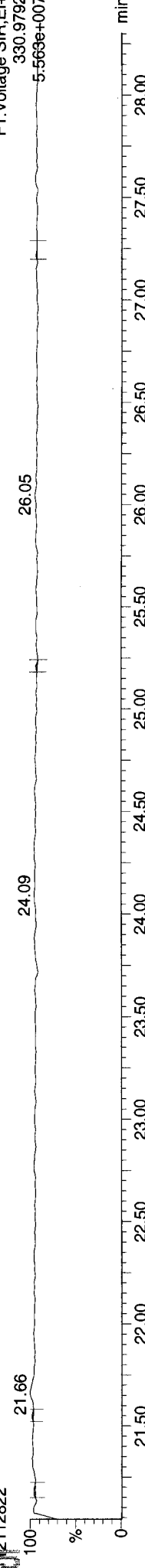
Total-tetradoxins

12112822



FUNCTION1 PFK

12112822



Dataset: P:\DIOXIN6290.PRO\121128DATA3.qld

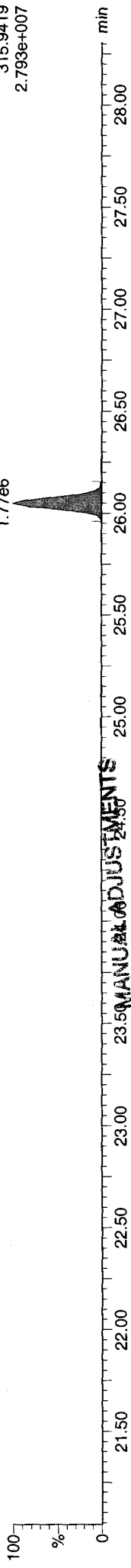
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

12112822



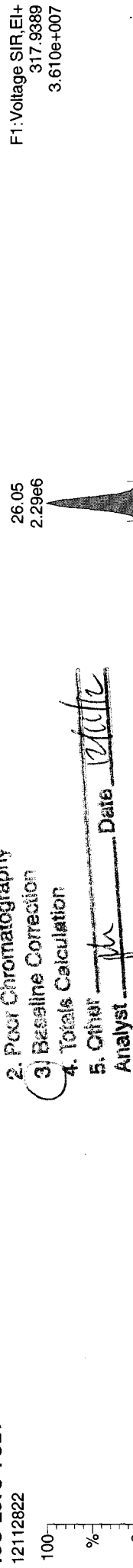
F1: Voltage SIR, EI+
315.9419
2.793e+007

13C-2378-TCDF

12112822

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

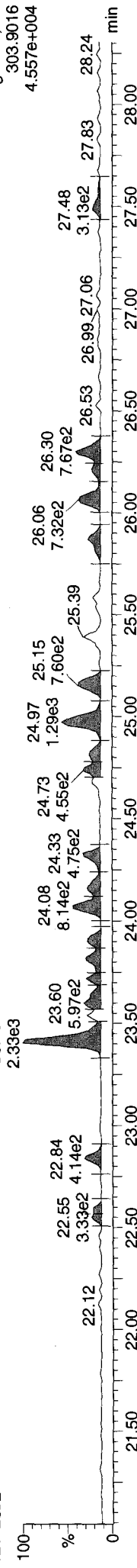
Analyst: *pk* Date: *12/11/12*



F1: Voltage SIR, EI+
317.9389
3.610e+007

Total-tetrafurans

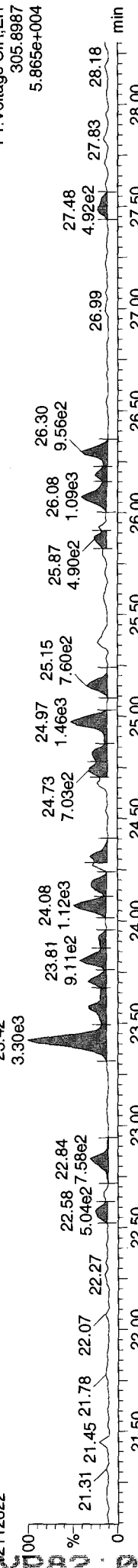
12112822



F1: Voltage SIR, EI+
303.9016
4.557e+004

Total-tetrafurans

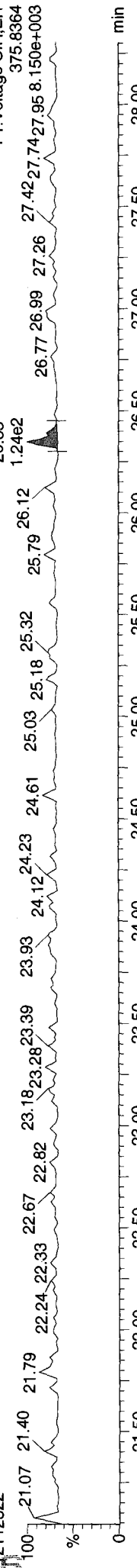
12112822



F1: Voltage SIR, EI+
305.8987
5.865e+004

FUNCTION1 HXCDPE

12112822

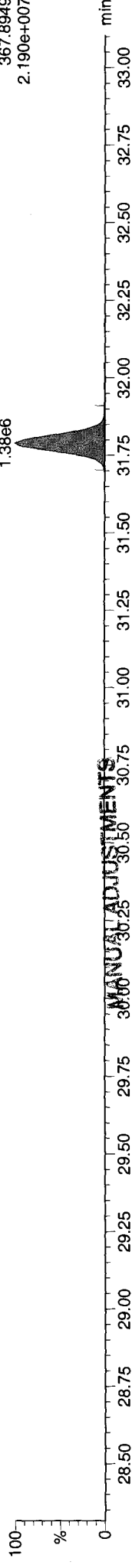


F1: Voltage SIR, EI+
375.8364
8.150e+003

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD

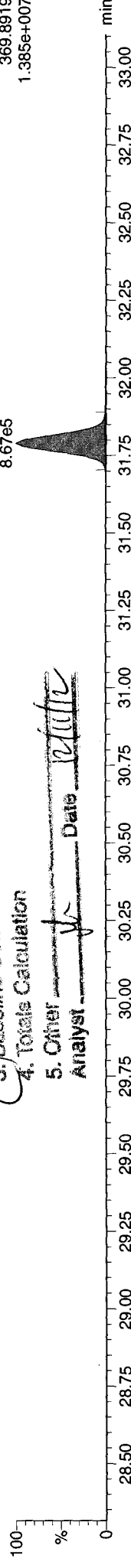
12112822



F2: Voltage SIR, EI+
367.8949
2.190e+007

13C-12378-PeCDD

12112822

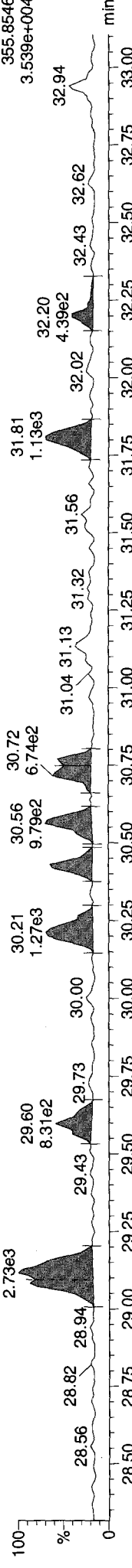


F2: Voltage SIR, EI+
369.8919
1.385e+007

- MANUAL ADJUSTMENTS**
1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other *pk* Date *12/11/12*

Total-pentadioxins

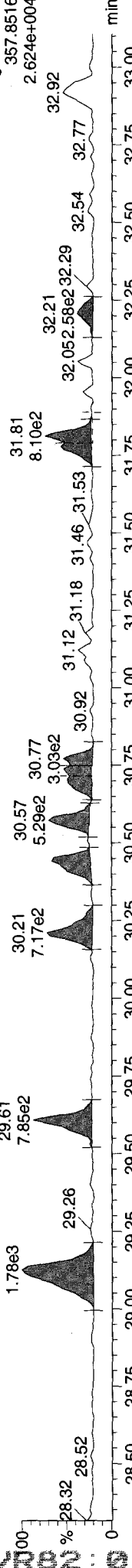
12112822



F2: Voltage SIR, EI+
355.8546
3.539e+004

Total-pentadioxins

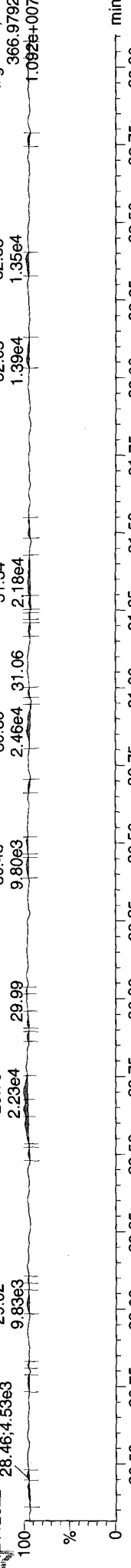
12112822



F2: Voltage SIR, EI+
357.8516
2.624e+004

FUNCTION2 PFK

12112822



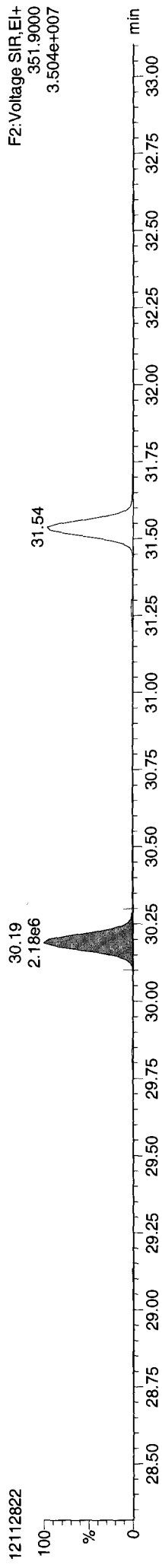
F2: Voltage SIR, EI+
366.9792
1.092e+007

Quantify Sample Report MassLynx 4.1 SCN 714

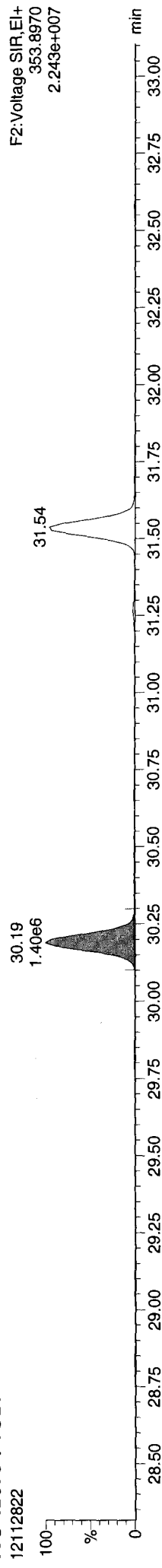
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time
Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR62CDUP, Conditions: AUTOSPEC01, User: pk

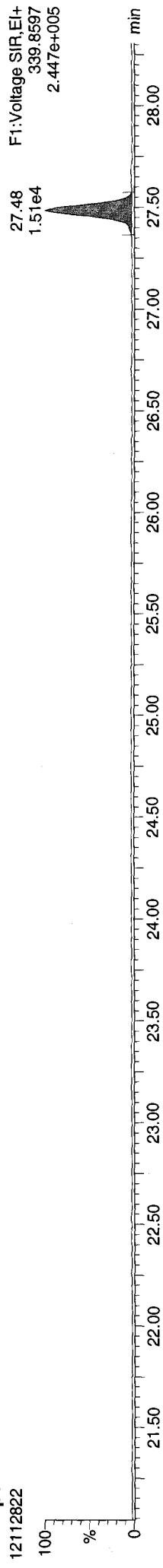
13C-12378-PeCDF



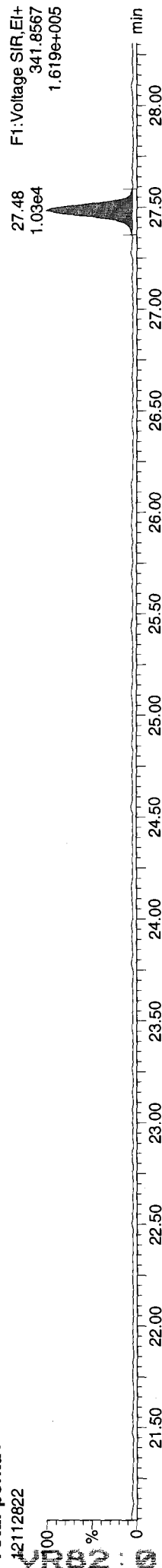
13C-12378-PeCDF



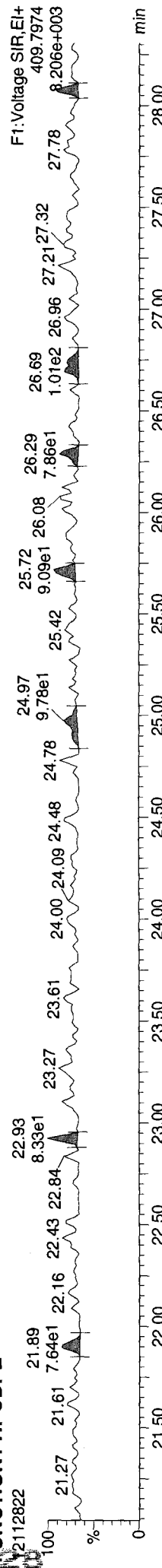
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

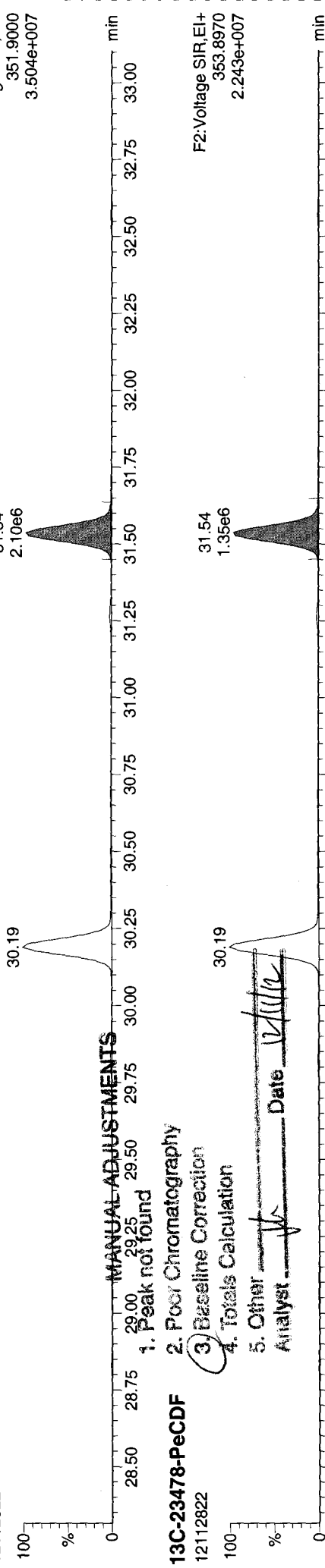
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

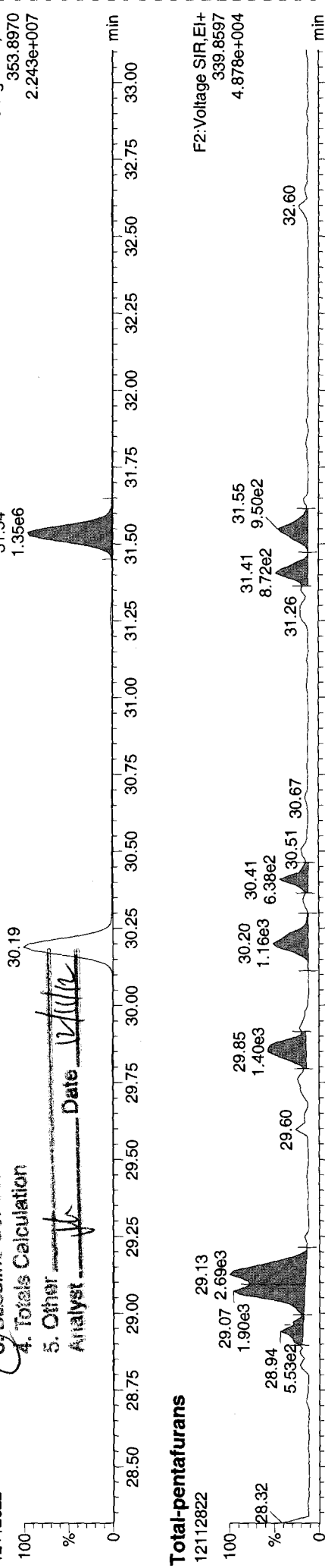
13C-23478-PeCDF

12112822



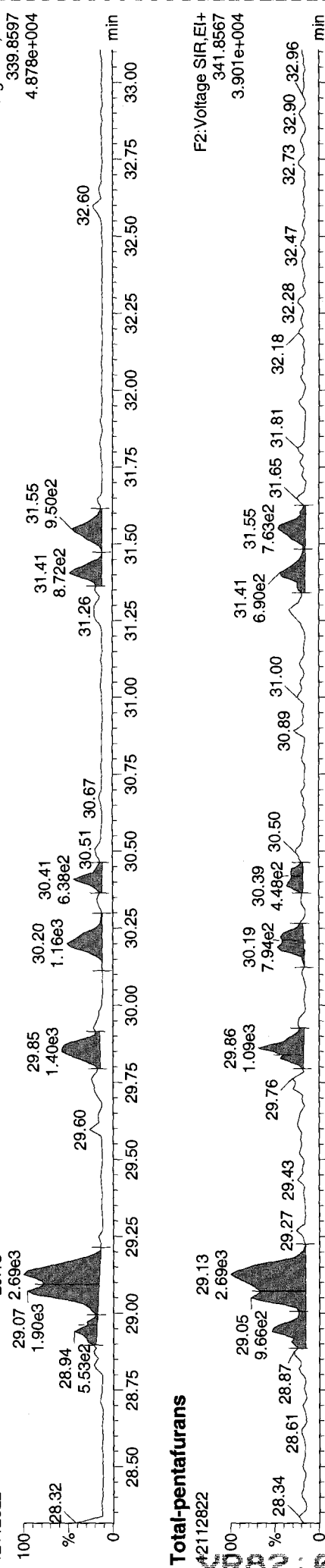
13C-23478-PeCDF

12112822



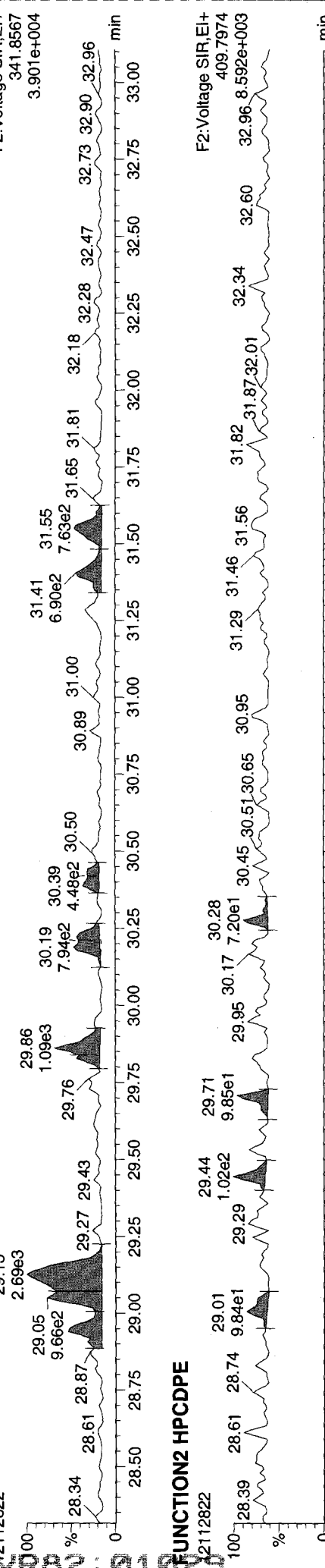
Total-pentafurans

12112822



Total-pentafurans

12112822

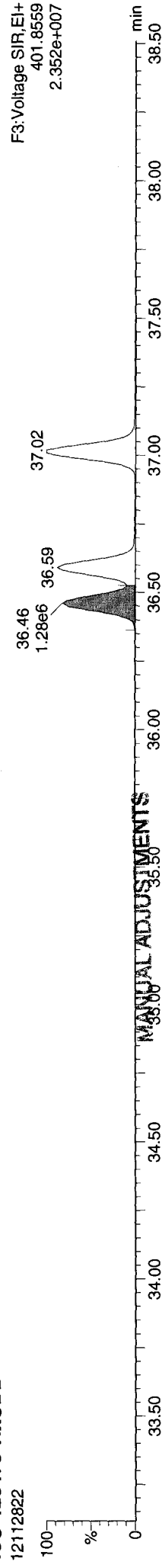


FUNCTION2 HPCDFE

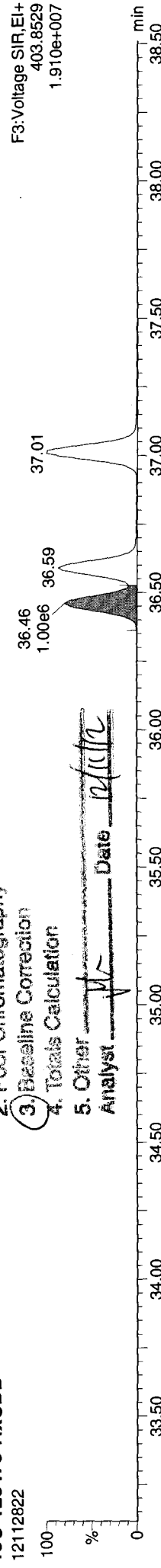
12112822

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

13C-123478-HxCDD



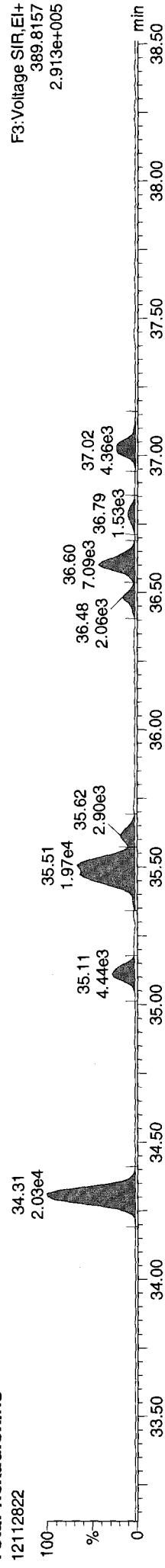
13C-123478-HxCDD



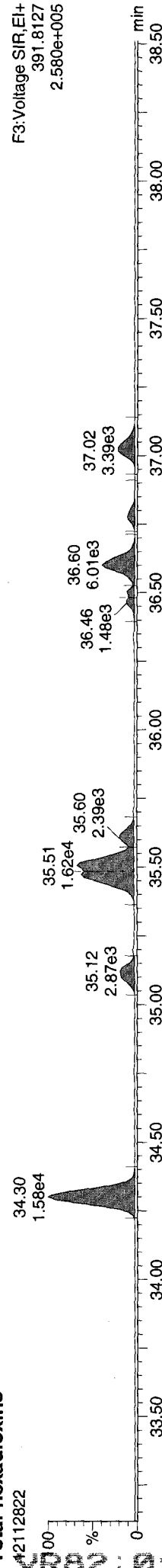
MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: *12/11/12*

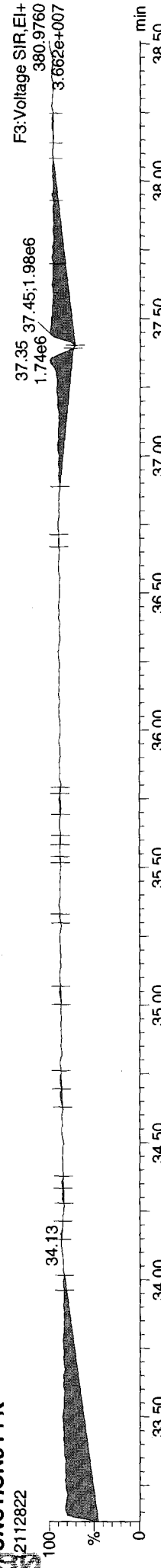
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

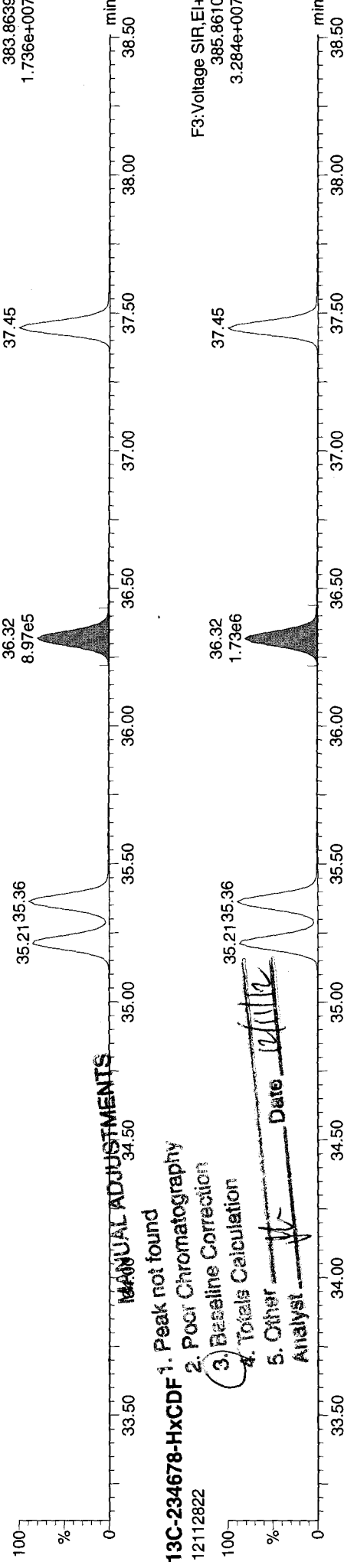


12/11/2012 10:11:17

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

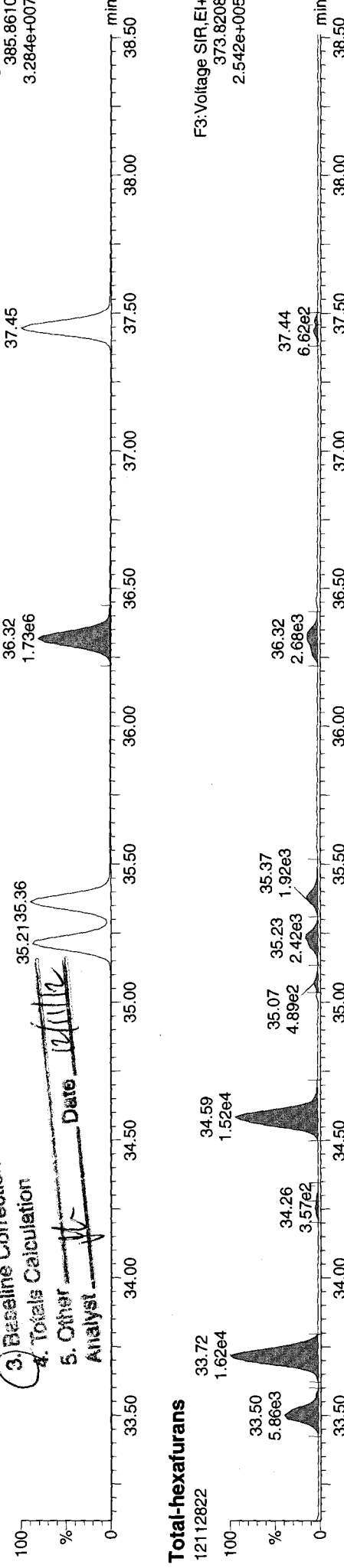
13C-234678-HxCDF

12112822



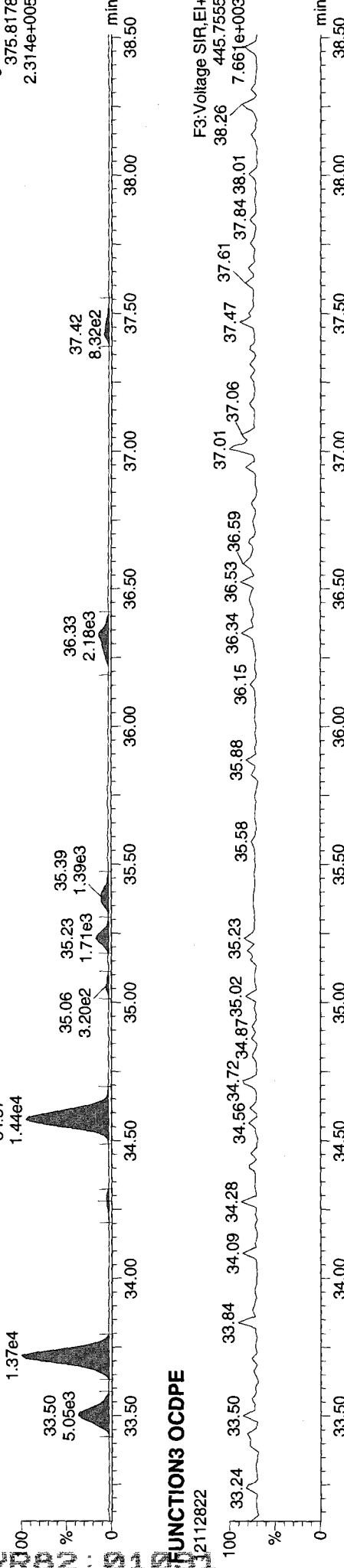
Total-hexafurans

12112822



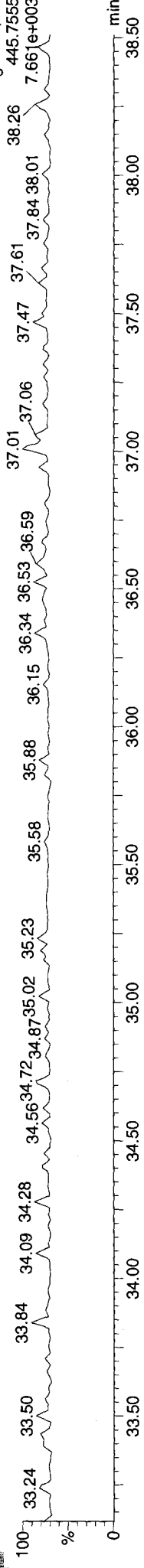
Total-hexafurans

12112822



FUNCTION3 OCDPE

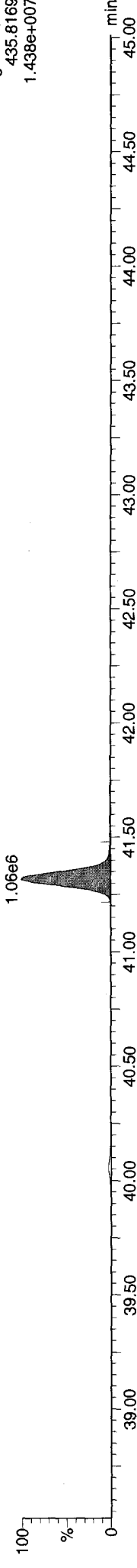
12112822



Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

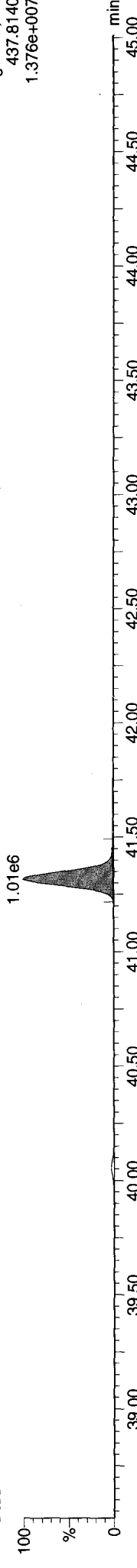
13C-1234678-HpCDD

12112822



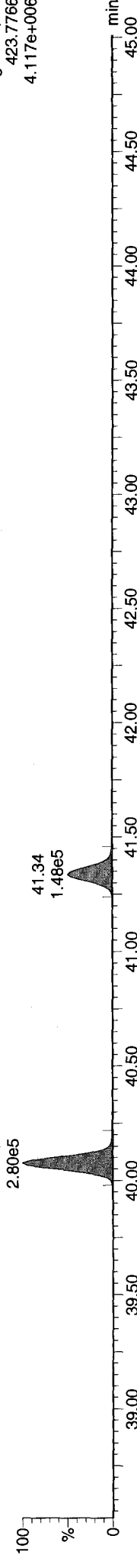
13C-1234678-HpCDD

12112822



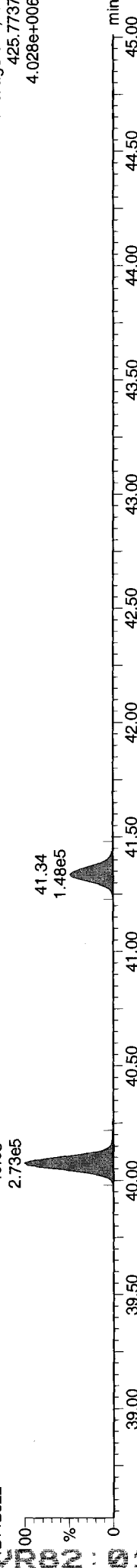
Total-heptadioxins

12112822



Total-heptadioxins

12112822



FUNCTION4 PFK

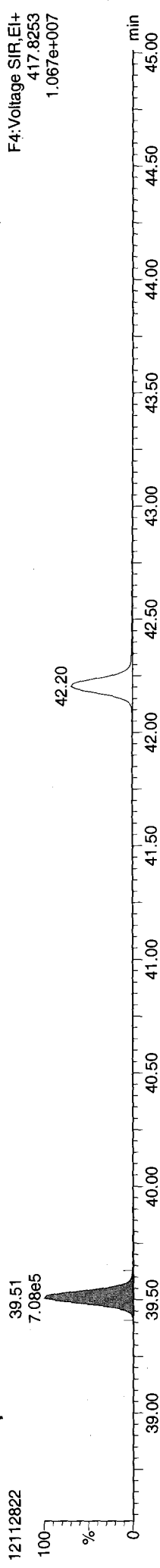
12112822



Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

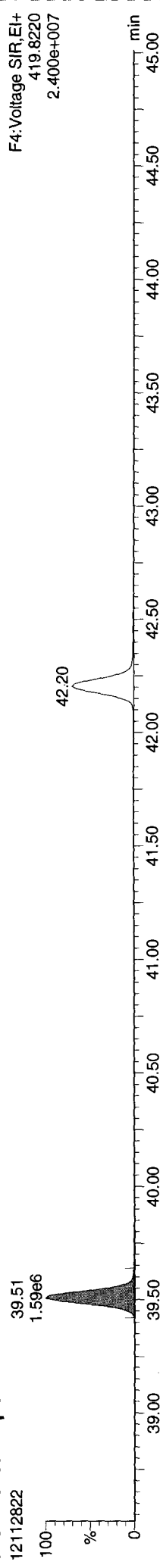
13C-1234678-HpCDF

12112822



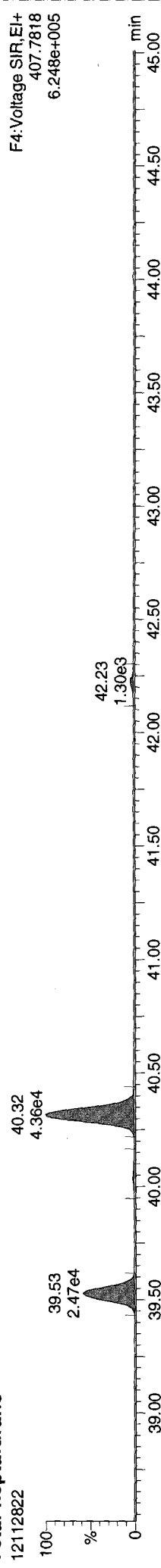
13C-1234678-HpCDF

12112822



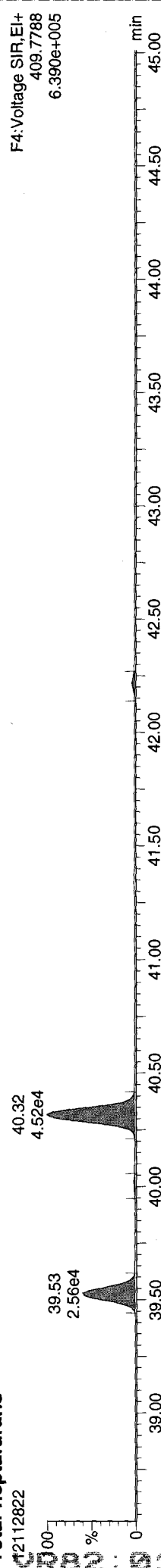
Total-heptafurans

12112822



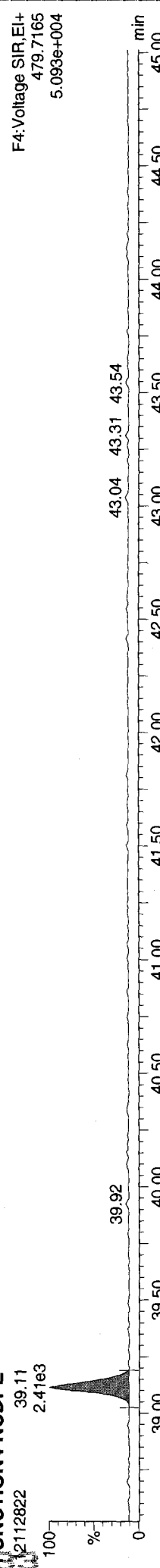
Total-heptafurans

12112822



FUNCTION4 NCDPE

12112822



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

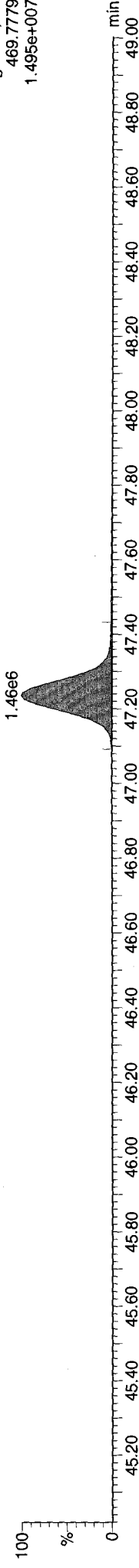
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112822

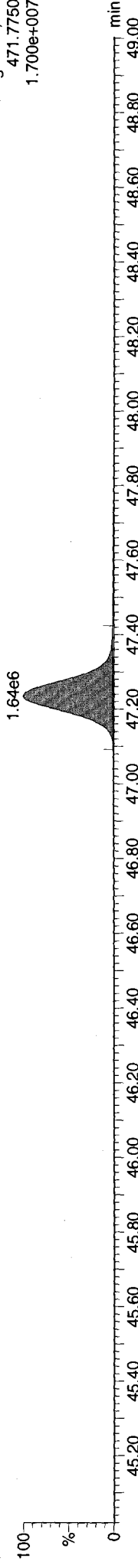


47.24
1.46e6

F5: Voltage SIR, EI+
469.7779
1.495e+007

13C-OCDD

12112822

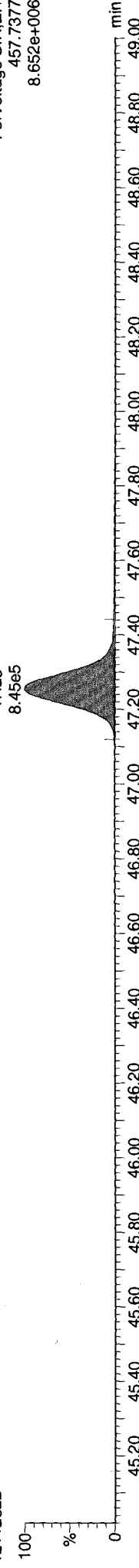


47.24
1.64e6

F5: Voltage SIR, EI+
471.7750
1.700e+007

OCDD

12112822

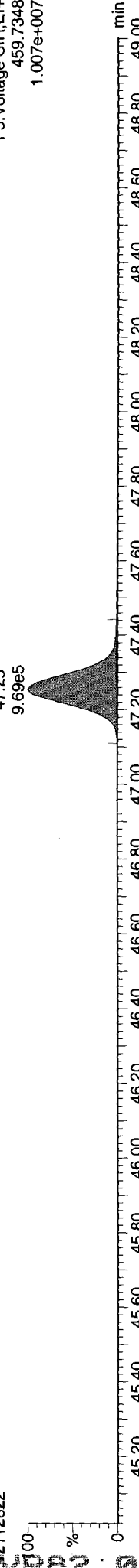


47.25
8.45e5

F5: Voltage SIR, EI+
457.7377
8.652e+006

OCDD

12112822

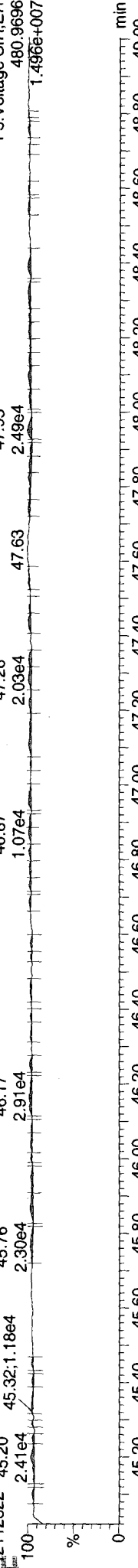


47.25
9.69e5

F5: Voltage SIR, EI+
459.7348
1.007e+007

FUNCTIONS PFK

12112822



47.95
2.49e4

47.28
2.03e4

F5: Voltage SIR, EI+
480.9696
1.496e+007

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

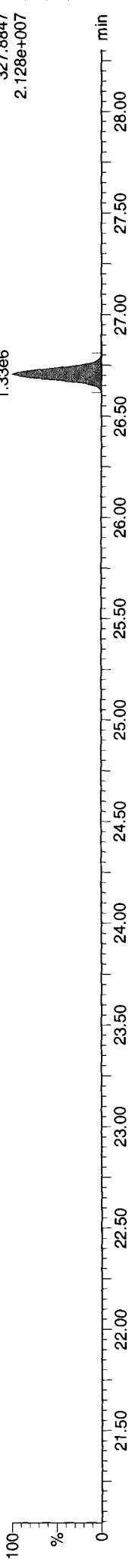
Last Altered: Tuesday, December 11, 2012 10:09:02 Pacific Standard Time

Printed: Tuesday, December 11, 2012 10:11:17 Pacific Standard Time

Name: 12112822, Date: 29-Nov-2012, Time: 04:31:08, ID: VR82CDUP, Conditions: AUTOSPEC01, User: pk

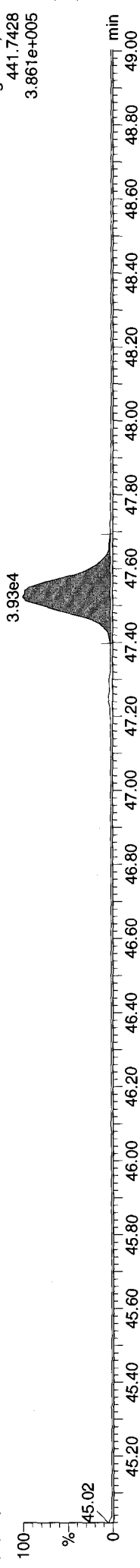
37CL-2378-TCDD

12112822



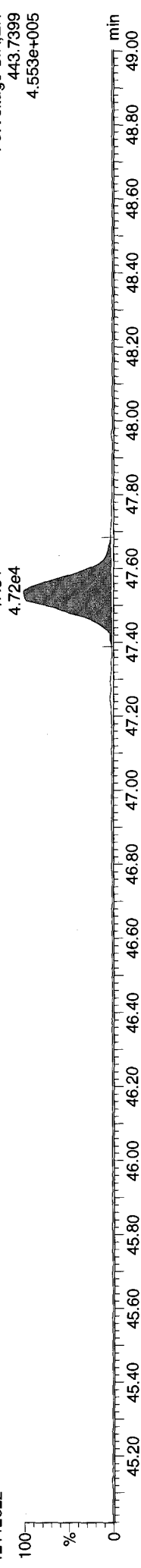
OCDF

12112822



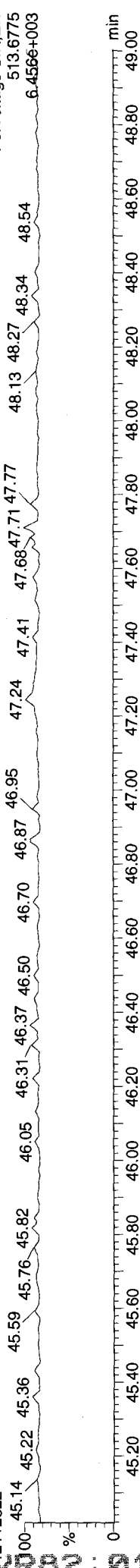
OCDF

12112822



FUNCTION5 DCDPE

12112822



12112822



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

	Name	RT	RST	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	Noise	Noise2	Height	Height2	EMPC1	EMPC2	pg
1	2378-TCDF	26.078	1.001	6.84e3	9.03e3	0.877	0.757	0.770	50.0	2207	1969	1.10e5	1.49e5	NO	0.423	0.423
2	12378-PeCDF	30.223	1.001	6.07e3	4.31e3	0.896	1.407	1.550	60.0	1641	2314	9.85e4	7.11e4	NO	0.344	0.344
3	23478-PeCDF	31.560	1.000	6.83e3	5.25e3	0.926	1.300	1.550	70.5	1641	2314	1.16e5	8.07e4	YES	0.367	0.395
4	123478-HxCDF	35.254	1.001	1.31e4	1.14e4	1.068	1.145	1.240	124.0	1619	1090	2.01e5	1.69e5	NO	0.875	0.875
5	234678-HxCDF	36.328	1.000	1.53e4	1.28e4	1.037	1.192	1.240	99.4	1619	1090	1.61e5	1.31e5	NO	1.074	1.074
6	123678-HxCDF	35.396	1.001	1.15e4	9.20e3	1.035	1.253	1.240	105.7	1619	1090	1.71e5	1.36e5	NO	0.729	0.729
7	123789-HxCDF	37.457	1.000	5.74e3	4.57e3	0.987	1.255	1.240	50.8	1619	1090	8.22e4	7.00e4	NO	0.378	0.378
8	1234678-HpCDF	39.540	1.000	1.65e5	1.70e5	1.232	0.971	1.050	1166.0	2103	1632	2.45e6	2.55e6	NO	12.763	12.763
9	1234789-HpCDF	42.236	1.000	7.98e3	8.68e3	1.215	0.919	1.050	49.8	2103	1632	1.05e5	1.08e5	NO	0.820	0.820
10	OCDF	47.549	1.006	2.54e5	3.07e5	1.138	0.827	0.890	1249.8	2105	1337	2.63e6	3.02e6	NO	36.141	36.141
11	2378-TCDD	26.721	1.001	1.30e3	3.62e3	1.049	0.359	0.770	20.2	933	2178	1.88e4	5.82e4	YES	0.098	0.162
12	12378-PeCDD	31.823	1.001	8.49e3	5.68e3	0.998	1.496	1.550	83.1	1528	596	1.27e5	7.64e4	NO	0.670	0.670
13	123478-HxCDD	36.481	1.000	1.24e4	1.04e4	0.971	1.197	1.240	98.1	2001	2338	1.96e5	1.60e5	NO	1.099	1.099
14	123678-HxCDD	36.613	1.001	4.88e4	4.22e4	0.918	1.157	1.240	363.8	2001	2338	7.28e5	6.02e5	NO	4.317	4.317
15	123789-HxCDD	37.030	1.012	2.85e4	2.19e4	0.932	1.301	1.240	211.0	2001	2338	4.22e5	3.36e5	NO	2.436	2.436
16	1234678-HpCDD	41.359	1.000	9.04e5	8.65e5	1.017	1.045	1.050	2151.7	5636	5291	1.21e7	1.17e7	NO	92.579	92.579
17	OCDD	47.279	1.000	5.05e6	5.63e6	1.008	0.897	0.890	23153.8	2219	2809	5.14e7	5.78e7	NO	775.541	775.541
18	13C-2378-TCDF	26.063	1.007	1.88e6	2.40e6	1.473	0.782	0.770	10523.3	2818	2256	2.96e7	3.80e7	NO	71.175	71.175
19	13C-12378-PeCDF	30.201	1.167	2.05e6	1.31e6	1.148	1.566	1.550	8256.6	3932	3925	3.25e7	2.08e7	NO	71.707	71.707
20	13C-23478-PeCDF	31.549	1.219	2.02e6	1.29e6	1.113	1.566	1.550	8241.3	3932	3925	3.24e7	2.06e7	NO	72.589	72.589
21	13C-123478-HxCDF	35.232	0.952	8.88e5	1.74e6	1.209	0.512	0.510	3924.5	3451	4014	1.35e7	2.64e7	NO	71.395	71.395
22	13C-123678-HxCDF	35.375	0.956	9.37e5	1.81e6	1.269	0.517	0.510	4205.7	3451	4014	1.45e7	2.77e7	NO	71.302	71.302
23	13C-234678-HxCDF	36.328	0.981	8.62e5	1.66e6	1.236	0.519	0.510	3817.2	3451	4014	1.32e7	2.50e7	NO	67.198	67.198
24	13C-123789-HxCDF	37.457	1.012	9.46e5	1.82e6	1.107	0.521	0.510	4148.4	3451	4014	1.43e7	2.79e7	NO	82.156	82.156
25	13C-1234678-HpCDF	39.529	1.068	6.57e5	1.47e6	1.051	0.447	0.440	3629.7	2713	2500	9.85e6	2.20e7	NO	66.586	66.586
26	13C-1234789-HpCDF	42.225	1.141	5.21e5	1.15e6	0.815	0.452	0.440	2500.0	2713	2500	6.78e6	1.49e7	NO	67.563	67.563
27	13C-1234-TCDD	25.884	0.000	1.79e6	2.30e6	1.000	0.780	0.770	8114.2	3478	1712	2.82e7	3.62e7	NO	100.000	100.000
28	13C-2378-TCDD	26.706	1.032	1.27e6	1.62e6	0.946	0.784	0.770	5747.6	3478	1712	2.00e7	2.55e7	NO	74.863	74.863
29	13C-12378-PeCDD	31.801	1.229	1.30e6	8.22e5	0.721	1.580	1.550	10887.7	1915	1821	2.08e7	1.32e7	NO	71.956	71.956
30	13C-123478-HxCDD	36.471	0.985	1.20e6	9.41e5	0.991	1.271	1.240	7710.0	2395	4611	1.85e7	1.44e7	NO	71.009	71.009
31	13C-123678-HxCDD	36.591	0.988	1.27e6	1.02e6	1.025	1.243	1.240	8049.0	2395	4611	1.93e7	1.56e7	NO	73.698	73.698
32	13C-1234678-HpCDD	41.338	1.117	9.56e5	9.24e5	0.866	1.034	1.050	3670.8	3547	2465	1.30e7	1.25e7	NO	71.395	71.395
33	13C-OCDD	47.262	1.277	1.29e6	1.44e6	0.789	0.892	0.890	5569.7	2312	2000	1.29e7	1.46e7	NO	116.822	116.822

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC?	EMPC	pg
13C-123789-HxCDD	37.019	0.000	1.68e6	1.36e6	1.000	1.242	1.240	10885.9	2395	4611	2.61e7	2.10e7	NO		100.000
Total-tetrafurans			9.32e4		0.877				2207		1.40e6			6.946	5.817
Total-penta1			1.20e5						575		1.90e6			6.340	6.340
Total-pentafurans			5.42e4		0.911				1641		8.52e5			4.980	3.079
Total-hexafurans			3.36e5		1.032				1619		5.05e6			22.721	22.721
Total-heptafurans			4.75e5		1.223				2103		6.95e6			39.819	39.819
Total-Furans			1.33e6		1.041				2207		1.88e7			116.948	113.916
Total-tetradioxins			2.11e4		1.049				933		3.35e5			2.125	1.575
Total-pentadioxins			5.61e4		0.998				1528		7.69e5			4.720	3.150
Total-hexadioxins			3.49e5		0.940				2001		4.73e6			30.402	30.402
Total-heptadioxins			2.31e6		1.017				5636		3.27e7			237.977	237.977
Total-Dioxins			4.88e7		0.985				933		6.89e8			116.948	113.916
Total-TEQ			5.01e7						933		7.08e8			233.895	227.833
37CL-2378-TCDD	26.721	1.032	1.58e6		1.044			14223.2	1769		2.52e7				37.022
FUNCTION1 PFK			3.25e6						645767		5.07e7				0.000
FUNCTION2 PFK			1.82e5						209026		4.64e6				0.000
FUNCTION3 PFK			7.77e6						485024		8.76e7				0.000
FUNCTION4 PFK			1.30e5						321055		4.67e6				0.000
FUNCTION5 PFK			2.77e5						274191		1.01e7				0.000
FUNCTION1 HXCDPE			1.22e3						438		2.52e4				0.000
FUNCTION1 HPCDPE			3.23e2						785		5.94e3				0.000
FUNCTION2 HPCDPE			5.28e2						871		1.33e4				0.000
FUNCTION3 OCDPE			7.24e1						500		2.00e3				0.000
FUNCTION4 NCDPE			3.28e4						639		5.03e5				0.000
FUNCTION5 DCDPE			0.00e0						238		0.00e0				0.000

REP: 01607

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rati.	1 st Rati.	1 st R.	S/N
35	Total-tetrafurans	303.9016	24.18	9700.650	0.877	0.258	0.258	0.75	0.77	NO	31.9
35	Total-tetrafurans	303.9016	24.08	0.000	0.877	0.000	0.370	0.59	0.77	YES	44.6
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.116	0.61	0.77	YES	15.6
35	Total-tetrafurans	303.9016	23.84	17031.890	0.877	0.453	0.453	0.71	0.77	NO	44.4
35	Total-tetrafurans	303.9016	23.73	10768.290	0.877	0.287	0.287	0.67	0.77	NO	29.4
35	Total-tetrafurans	303.9016	23.61	7670.965	0.877	0.204	0.204	0.67	0.77	NO	18.4
35	Total-tetrafurans	303.9016	23.55	6503.091	0.877	0.173	0.173	0.65	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.43	45543.807	0.877	1.212	1.212	0.75	0.77	NO	132.4
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.211	0.62	0.77	YES	26.3
35	Total-tetrafurans	303.9016	22.58	6180.885	0.877	0.165	0.165	0.78	0.77	NO	21.3
35	Total-tetrafurans	303.9016	26.30	18430.557	0.877	0.491	0.491	0.85	0.77	NO	59.2
35	Total-tetrafurans	303.9016	26.21	6653.133	0.877	0.177	0.177	0.78	0.77	NO	22.6
1	2378-TCDF	303.9016	26.08	15872.316	0.877	0.423	0.423	0.76	0.77	NO	50.0
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.069	1.30	0.77	YES	14.2
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.101	0.51	0.77	YES	13.0
35	Total-tetrafurans	303.9016	25.59	3494.462	0.877	0.093	0.093	0.78	0.77	NO	10.1
35	Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.146	0.65	0.77	YES	19.6
35	Total-tetrafurans	303.9016	25.17	12474.002	0.877	0.332	0.332	0.74	0.77	NO	37.4
35	Total-tetrafurans	303.9016	24.99	24738.965	0.877	0.659	0.659	0.66	0.77	NO	61.6
35	Total-tetrafurans	303.9016	24.82	7958.079	0.877	0.212	0.212	0.87	0.77	NO	26.7
35	Total-tetrafurans	303.9016	24.75	13733.560	0.877	0.366	0.366	0.75	0.77	NO	32.0
35	Total-tetrafurans	303.9016	24.33	11755.827	0.877	0.313	0.313	0.82	0.77	NO	37.7
35	Total-tetrafurans	303.9016	27.50	0.000	0.877	0.000	0.117	0.58	0.77	YES	9.5

PP

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rati.	1 st Rati.	1 st R.	S/N
36	Total-penta1	339.8597	27.50	193819.367		6.340	6.340	1.61	1.55	NO	3299.4

PF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rati.	1 st Rati.	1 st R.	S/N
37	Total-pentafurans	339.8597	29.86	22373.527	0.911	0.736	0.736	1.37	1.55	NO	94.0
37	Total-pentafurans	339.8597	29.76	3778.914	0.911	0.124	0.124	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.082	1.81	1.55	YES	14.8
37	Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.031	0.95	1.55	YES	7.2
37	Total-pentafurans	339.8597	29.15	36864.476	0.911	1.214	1.214	1.33	1.55	NO	223.2
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.681	1.86	1.55	YES	145.3
37	Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.351	1.94	1.55	YES	63.2
37	Total-pentafurans	339.8597	32.59	0.000	0.911	0.000	0.041	1.17	1.55	YES	5.2
3	23478-PeCDF	339.8597	31.56	12082.893	0.926	0.000	0.367	1.30	1.55	YES	70.5
37	Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.347	1.30	1.55	YES	59.5
37	Total-pentafurans	339.8597	31.30	5951.928	0.911	0.196	0.196	1.34	1.55	NO	33.5
37	Total-pentafurans	339.8597	30.53	3798.094	0.911	0.125	0.125	1.39	1.55	NO	27.4
37	Total-pentafurans	339.8597	30.42	10313.863	0.911	0.340	0.340	1.52	1.55	NO	57.4
2	12378-PeCDF	339.8597	30.22	10378.765	0.896	0.344	0.344	1.41	1.55	NO	60.0

VR82:01038

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1 st Rat...	1 st Rat...	1 st R...	S/N
1	7 123789-HxCDF	373.8208	37.46	10310.033	0.987	0.378	0.378	1.26	1.24	NO	50.8
2	5 234678-HxCDF	373.8208	36.33	28095.728	1.037	1.074	1.074	1.19	1.24	NO	99.4
3	38 Total-hexafurans	373.8208	35.76	1736.902	1.032	0.063	0.063	1.32	1.24	NO	11.5
4	6 123678-HxCDF	373.8208	35.40	20735.401	1.035	0.729	0.729	1.25	1.24	NO	105.7
5	4 123478-HxCDF	373.8208	35.25	24516.917	1.068	0.875	0.875	1.15	1.24	NO	124.0
6	38 Total-hexafurans	373.8208	35.09	6250.848	1.032	0.227	0.227	1.30	1.24	NO	31.9
7	38 Total-hexafurans	373.8208	34.60	235870.617	1.032	8.580	8.580	1.15	1.24	NO	1181.7
8	38 Total-hexafurans	373.8208	34.27	4054.354	1.032	0.147	0.147	1.09	1.24	NO	19.7
9	38 Total-hexafurans	373.8208	33.73	212511.540	1.032	7.730	7.730	1.18	1.24	NO	1076.9
10	38 Total-hexafurans	373.8208	33.51	80185.950	1.032	2.917	2.917	1.14	1.24	NO	417.2

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPG	1 st Rat...	1 st Rat...	1 st R...	S/N
1	9 1234789-HpCDF	407.7818	42.24	16659.307	1.215	0.820	0.820	0.92	1.05	NO	49.8
2	39 Total-heptafurans	407.7818	41.37	1295.838	1.223	0.056	0.056	1.16	1.05	NO	6.2
3	39 Total-heptafurans	407.7818	40.33	599623.094	1.223	25.793	25.793	0.98	1.05	NO	2055.5
4	39 Total-heptafurans	407.7818	40.03	9013.700	1.223	0.388	0.388	1.07	1.05	NO	27.7
5	8 1234678-HpCDF	407.7818	39.54	334459.625	1.232	12.763	12.763	0.97	1.05	NO	1166.0

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RF M	pg	EMPD	1 st Rat	1 st Rat	1 st R	S/N
1	35 Total-tetrafurans	303.9016	24.18	9700.650	0.877	0.258	0.258	0.75	0.77	NO	31.9
2	35 Total-tetrafurans	303.9016	24.08	0.000	0.877	0.000	0.370	0.59	0.77	YES	44.6
3	35 Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.116	0.61	0.77	YES	15.6
4	35 Total-tetrafurans	303.9016	23.84	17031.890	0.877	0.453	0.453	0.71	0.77	NO	44.4
5	35 Total-tetrafurans	303.9016	23.73	10768.290	0.877	0.287	0.287	0.67	0.77	NO	29.4
6	35 Total-tetrafurans	303.9016	23.61	7670.965	0.877	0.204	0.204	0.67	0.77	NO	18.4
7	35 Total-tetrafurans	303.9016	23.55	6503.091	0.877	0.173	0.173	0.65	0.77	NO	18.8
8	35 Total-tetrafurans	303.9016	23.43	45543.807	0.877	1.212	1.212	0.75	0.77	NO	132.4
9	35 Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.211	0.62	0.77	YES	26.3
10	35 Total-tetrafurans	303.9016	22.58	6180.885	0.877	0.165	0.165	0.78	0.77	NO	21.3
11	35 Total-tetrafurans	303.9016	26.30	18430.557	0.877	0.491	0.491	0.85	0.77	NO	59.2
12	35 Total-tetrafurans	303.9016	26.21	6653.133	0.877	0.177	0.177	0.78	0.77	NO	22.6
13	1 2378-TCDF	303.9016	26.08	15872.316	0.877	0.423	0.423	0.76	0.77	NO	50.0
14	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.069	1.30	0.77	YES	14.2
15	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.101	0.51	0.77	YES	13.0
16	35 Total-tetrafurans	303.9016	25.59	3494.462	0.877	0.093	0.093	0.78	0.77	NO	10.1
17	35 Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.146	0.65	0.77	YES	19.6
18	35 Total-tetrafurans	303.9016	25.17	12474.002	0.877	0.332	0.332	0.74	0.77	NO	37.4
19	35 Total-tetrafurans	303.9016	24.99	24738.965	0.877	0.659	0.659	0.66	0.77	NO	61.6
20	35 Total-tetrafurans	303.9016	24.82	7958.079	0.877	0.212	0.212	0.87	0.77	NO	26.7
21	35 Total-tetrafurans	303.9016	24.75	13733.560	0.877	0.366	0.366	0.75	0.77	NO	32.0
22	35 Total-tetrafurans	303.9016	24.33	11755.827	0.877	0.313	0.313	0.82	0.77	NO	37.7
23	35 Total-tetrafurans	303.9016	27.50	0.000	0.877	0.000	0.117	0.58	0.77	YES	9.5
24	37 Total-pentafurans	339.8597	29.86	22373.527	0.911	0.736	0.736	1.37	1.55	NO	94.0
25	37 Total-pentafurans	339.8597	29.76	3778.914	0.911	0.124	0.124	1.54	1.55	NO	23.9
26	37 Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.082	1.81	1.55	YES	14.8
27	37 Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.031	0.95	1.55	YES	7.2
28	37 Total-pentafurans	339.8597	29.15	36864.476	0.911	1.214	1.214	1.33	1.55	NO	223.2
29	37 Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.681	1.86	1.55	YES	145.3
30	37 Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.351	1.94	1.55	YES	63.2
31	37 Total-pentafurans	339.8597	32.59	0.000	0.911	0.000	0.041	1.17	1.55	YES	5.2
32	3 23478-PeCDF	339.8597	31.56	12082.893	0.926	0.000	0.367	1.30	1.55	YES	70.5
33	37 Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.347	1.30	1.55	YES	59.5
34	37 Total-pentafurans	339.8597	31.30	5951.928	0.911	0.196	0.196	1.34	1.55	NO	33.5
35	37 Total-pentafurans	339.8597	30.53	3798.094	0.911	0.125	0.125	1.39	1.55	NO	27.4
36	37 Total-pentafurans	339.8597	30.42	10313.863	0.911	0.340	0.340	1.52	1.55	NO	57.4
37	2 12378-PeCDF	339.8597	30.22	10378.765	0.896	0.344	0.344	1.41	1.55	NO	60.0
38	7 123789-HxCDF	373.8208	37.46	10310.033	0.987	0.378	0.378	1.26	1.24	NO	50.8
39	5 234678-HxCDF	373.8208	36.33	28095.728	1.037	1.074	1.074	1.19	1.24	NO	99.4
40	38 Total-hexafurans	373.8208	35.76	1736.902	1.032	0.063	0.063	1.32	1.24	NO	11.5
41	6 123678-HxCDF	373.8208	35.40	20735.401	1.035	0.729	0.729	1.25	1.24	NO	105.7
42	4 123478-HxCDF	373.8208	35.25	24516.917	1.068	0.875	0.875	1.15	1.24	NO	124.0
43	38 Total-hexafurans	373.8208	35.09	6250.848	1.032	0.227	0.227	1.30	1.24	NO	31.9
44	38 Total-hexafurans	373.8208	34.60	235870.617	1.032	8.580	8.580	1.15	1.24	NO	1181.7
45	38 Total-hexafurans	373.8208	34.27	4054.354	1.032	0.147	0.147	1.09	1.24	NO	19.7
46	38 Total-hexafurans	373.8208	33.73	212511.540	1.032	7.730	7.730	1.18	1.24	NO	1076.9
47	38 Total-hexafurans	373.8208	33.51	80185.950	1.032	2.917	2.917	1.14	1.24	NO	417.2
48	9 1234789-HpCDF	407.7818	42.24	16659.307	1.215	0.820	0.820	0.92	1.05	NO	49.8
49	39 Total-heptafurans	407.7818	41.37	1295.838	1.223	0.056	0.056	1.16	1.05	NO	6.2

VR82: 01040

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
39	Total-heptafurans	407.7818	40.33	599623.094	1.223	25.793	25.793	0.98	1.05	NO	2055.5
39	Total-heptafurans	407.7818	40.03	9013.700	1.223	0.388	0.388	1.07	1.05	NO	27.7
8	1234678-HpCDF	407.7818	39.54	334459.625	1.232	12.763	12.763	0.97	1.05	NO	1166.0
10	OCDF	441.7428	47.55	561388.328	1.138	36.141	36.141	0.83	0.89	NO	1249.8
36	Total-penta1	339.8597	27.50	193819.367		6.340	6.340	1.61	1.55	NO	3299.4

TD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
41	Total-tetradioxins	319.8965	27.30	0.000	1.049	0.000	0.023	1.11	0.77	YES	7.2
41	Total-tetradioxins	319.8965	26.84	3049.742	1.049	0.100	0.100	0.83	0.77	NO	22.4
11	2378-TCDD	319.8965	26.72	4914.713	1.049	0.000	0.098	0.36	0.77	YES	20.2
41	Total-tetradioxins	319.8965	26.35	0.000	1.049	0.000	0.136	0.89	0.77	YES	26.9
41	Total-tetradioxins	319.8965	25.91	0.000	1.049	0.000	0.087	0.62	0.77	YES	18.4
41	Total-tetradioxins	319.8965	25.70	0.000	1.049	0.000	0.067	0.91	0.77	YES	19.2
41	Total-tetradioxins	319.8965	25.60	1338.290	1.049	0.044	0.044	0.77	0.77	NO	10.7
41	Total-tetradioxins	319.8965	25.33	6685.052	1.049	0.220	0.220	0.73	0.77	NO	46.8
41	Total-tetradioxins	319.8965	25.06	0.000	1.049	0.000	0.139	0.93	0.77	YES	28.2
41	Total-tetradioxins	319.8965	24.85	5512.698	1.049	0.182	0.182	0.71	0.77	NO	39.7
41	Total-tetradioxins	319.8965	24.35	3769.826	1.049	0.124	0.124	0.87	0.77	NO	33.4
41	Total-tetradioxins	319.8965	24.12	11351.119	1.049	0.374	0.374	0.79	0.77	NO	78.8
41	Total-tetradioxins	319.8965	23.87	16122.143	1.049	0.531	0.531	0.81	0.77	NO	127.1

PD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
42	Total-pentadioxins	355.8546	32.21	0.000	0.998	0.000	0.141	1.19	1.55	YES	20.2
12	12378-PeCDD	355.8546	31.82	14168.453	0.998	0.670	0.670	1.50	1.55	NO	83.1
42	Total-pentadioxins	355.8546	31.14	0.000	0.998	0.000	0.143	1.93	1.55	YES	20.0
42	Total-pentadioxins	355.8546	30.76	11075.967	0.998	0.523	0.523	1.48	1.55	NO	49.4
42	Total-pentadioxins	355.8546	30.57	8512.022	0.998	0.402	0.402	1.61	1.55	NO	53.0
42	Total-pentadioxins	355.8546	30.44	12594.554	0.998	0.595	0.595	1.41	1.55	NO	74.3
42	Total-pentadioxins	355.8546	30.23	11371.021	0.998	0.537	0.537	1.58	1.55	NO	71.1
42	Total-pentadioxins	355.8546	29.61	8932.376	0.998	0.422	0.422	1.59	1.55	NO	66.4
42	Total-pentadioxins	355.8546	29.13	0.000	0.998	0.000	1.286	1.41	1.55	NO	106.1

HD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
15	123789-HxCDD	389.8157	37.03	50355.170	0.932	2.436	2.436	1.30	1.24	NO	211.0
43	Total-hexadioxins	389.8157	36.79	12305.201	0.940	0.590	0.590	1.13	1.24	NO	52.1
14	123678-HxCDD	389.8157	36.61	90964.722	0.918	4.317	4.317	1.16	1.24	NO	363.8
13	123478-HxCDD	389.8157	36.48	22820.880	0.971	1.099	1.099	1.20	1.24	NO	98.1
43	Total-hexadioxins	389.8157	35.63	23707.230	0.940	1.137	1.137	1.15	1.24	NO	104.7
43	Total-hexadioxins	389.8157	35.52	220640.031	0.940	10.583	10.583	1.24	1.24	NO	629.2
43	Total-hexadioxins	389.8157	35.12	37078.607	0.940	1.779	1.779	1.24	1.24	NO	158.6
43	Total-hexadioxins	389.8157	34.31	176383.625	0.940	8.461	8.461	1.24	1.24	NO	743.6

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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HPD

	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	16 1234678-HpCDD	423.7766	41.36	1769428.376	1.017	92.579	92.579	1.05	1.05	NO	2151.7
2	44 Total-heptadioxins	423.7766	40.09	2778957.625	1.017	145.398	145....	1.02	1.05	NO	3659.0

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

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Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RHF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
1	35 Total-tetrafurans	303.9016	24.18	9700.650	0.877	0.258	0.258	0.75	0.77	NO	31.9
2	35 Total-tetrafurans	303.9016	24.08	0.000	0.877	0.000	0.370	0.59	0.77	YES	44.6
3	35 Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.116	0.61	0.77	YES	15.6
4	35 Total-tetrafurans	303.9016	23.84	17031.890	0.877	0.453	0.453	0.71	0.77	NO	44.4
5	35 Total-tetrafurans	303.9016	23.73	10768.290	0.877	0.287	0.287	0.67	0.77	NO	29.4
6	35 Total-tetrafurans	303.9016	23.61	7670.965	0.877	0.204	0.204	0.67	0.77	NO	18.4
7	35 Total-tetrafurans	303.9016	23.55	6503.091	0.877	0.173	0.173	0.65	0.77	NO	18.8
8	35 Total-tetrafurans	303.9016	23.43	45543.807	0.877	1.212	1.212	0.75	0.77	NO	132.4
9	35 Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.211	0.62	0.77	YES	26.3
10	35 Total-tetrafurans	303.9016	22.58	6180.885	0.877	0.165	0.165	0.78	0.77	NO	21.3
11	35 Total-tetrafurans	303.9016	26.30	18430.557	0.877	0.491	0.491	0.85	0.77	NO	59.2
12	35 Total-tetrafurans	303.9016	26.21	6653.133	0.877	0.177	0.177	0.78	0.77	NO	22.6
13	1 2378-TCDF	303.9016	26.08	15872.316	0.877	0.423	0.423	0.76	0.77	NO	50.0
14	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.069	1.30	0.77	YES	14.2
15	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.101	0.51	0.77	YES	13.0
16	35 Total-tetrafurans	303.9016	25.59	3494.462	0.877	0.093	0.093	0.78	0.77	NO	10.1
17	35 Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.146	0.65	0.77	YES	19.6
18	35 Total-tetrafurans	303.9016	25.17	12474.002	0.877	0.332	0.332	0.74	0.77	NO	37.4
19	35 Total-tetrafurans	303.9016	24.99	24738.965	0.877	0.659	0.659	0.66	0.77	NO	61.6
20	35 Total-tetrafurans	303.9016	24.82	7958.079	0.877	0.212	0.212	0.87	0.77	NO	26.7
21	35 Total-tetrafurans	303.9016	24.75	13733.560	0.877	0.366	0.366	0.75	0.77	NO	32.0
22	35 Total-tetrafurans	303.9016	24.33	11755.827	0.877	0.313	0.313	0.82	0.77	NO	37.7
23	35 Total-tetrafurans	303.9016	27.50	0.000	0.877	0.000	0.117	0.58	0.77	YES	9.5
24	37 Total-pentafurans	339.8597	29.86	22373.527	0.911	0.736	0.736	1.37	1.55	NO	94.0
25	37 Total-pentafurans	339.8597	29.76	3778.914	0.911	0.124	0.124	1.54	1.55	NO	23.9
26	37 Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.082	1.81	1.55	YES	14.8
27	37 Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.031	0.95	1.55	YES	7.2
28	37 Total-pentafurans	339.8597	29.15	36864.476	0.911	1.214	1.214	1.33	1.55	NO	223.2
29	37 Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.681	1.86	1.55	YES	145.3
30	37 Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.351	1.94	1.55	YES	63.2
31	37 Total-pentafurans	339.8597	32.59	0.000	0.911	0.000	0.041	1.17	1.55	YES	5.2
32	3 23478-PeCDF	339.8597	31.56	12082.893	0.926	0.395	0.367	1.30	1.55	YES	70.5
33	37 Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.347	1.30	1.55	YES	59.5
34	37 Total-pentafurans	339.8597	31.30	5951.928	0.911	0.196	0.196	1.34	1.55	NO	33.5
35	37 Total-pentafurans	339.8597	30.53	3798.094	0.911	0.125	0.125	1.39	1.55	NO	27.4
36	37 Total-pentafurans	339.8597	30.42	10313.863	0.911	0.340	0.340	1.52	1.55	NO	57.4
37	2 12378-PeCDF	339.8597	30.22	10378.765	0.896	0.344	0.344	1.41	1.55	NO	60.0
38	7 123789-HxCDF	373.8208	37.46	10310.033	0.987	0.378	0.378	1.26	1.24	NO	50.8
39	5 234678-HxCDF	373.8208	36.33	28095.728	1.037	1.074	1.074	1.19	1.24	NO	99.4
40	38 Total-hexafurans	373.8208	35.76	1736.902	1.032	0.063	0.063	1.32	1.24	NO	11.5
41	6 123678-HxCDF	373.8208	35.40	20735.401	1.035	0.729	0.729	1.25	1.24	NO	105.7
42	4 123478-HxCDF	373.8208	35.25	24516.917	1.068	0.875	0.875	1.15	1.24	NO	124.0
43	38 Total-hexafurans	373.8208	35.09	6250.848	1.032	0.227	0.227	1.30	1.24	NO	31.9
44	38 Total-hexafurans	373.8208	34.60	235870.617	1.032	8.580	8.580	1.15	1.24	NO	1181.7
45	38 Total-hexafurans	373.8208	34.27	4054.354	1.032	0.147	0.147	1.09	1.24	NO	19.7
46	38 Total-hexafurans	373.8208	33.73	212511.540	1.032	7.730	7.730	1.18	1.24	NO	1076.9
47	38 Total-hexafurans	373.8208	33.51	80185.950	1.032	2.917	2.917	1.14	1.24	NO	417.2
48	9 1234789-HpCDF	407.7818	42.24	16659.307	1.215	0.820	0.820	0.92	1.05	NO	49.8
49	39 Total-heptafurans	407.7818	41.37	1295.838	1.223	0.056	0.056	1.16	1.05	NO	6.2

VR82: 01043

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat.	1 st Rat.	P.R.	S/N
50	39 Total-heptafurans	407.7818	40.33	599623.094	1.223	25.793	25.793	0.98	1.05	NO	2055.5
51	39 Total-heptafurans	407.7818	40.03	9013.700	1.223	0.388	0.388	1.07	1.05	NO	27.7
52	8 1234678-HpCDF	407.7818	39.54	334459.625	1.232	12.763	12.763	0.97	1.05	NO	1166.0
53	10 OCDF	441.7428	47.55	561388.328	1.138	36.141	36.141	0.83	0.89	NO	1249.8
54	36 Total-penta1	339.8597	27.50	193819.367		6.340	6.340	1.61	1.55	NO	3299.4

VR82: 01044

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RF M	pg	EMPO	1 st Rat	1 st Rat	1 st R	SN
35	Total-tetrafurans	303.9016	24.18	9700.650	0.877	0.258	0.258	0.75	0.77	NO	31.9
35	Total-tetrafurans	303.9016	24.08	0.000	0.877	0.000	0.370	0.59	0.77	YES	44.6
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.116	0.61	0.77	YES	15.6
35	Total-tetrafurans	303.9016	23.84	17031.890	0.877	0.453	0.453	0.71	0.77	NO	44.4
35	Total-tetrafurans	303.9016	23.73	10768.290	0.877	0.287	0.287	0.67	0.77	NO	29.4
35	Total-tetrafurans	303.9016	23.61	7670.965	0.877	0.204	0.204	0.67	0.77	NO	18.4
35	Total-tetrafurans	303.9016	23.55	6503.091	0.877	0.173	0.173	0.65	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.43	45543.807	0.877	1.212	1.212	0.75	0.77	NO	132.4
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.211	0.62	0.77	YES	26.3
35	Total-tetrafurans	303.9016	22.58	6180.885	0.877	0.165	0.165	0.78	0.77	NO	21.3
35	Total-tetrafurans	303.9016	26.30	18430.557	0.877	0.491	0.491	0.85	0.77	NO	59.2
35	Total-tetrafurans	303.9016	26.21	6653.133	0.877	0.177	0.177	0.78	0.77	NO	22.6
1	2378-TCDF	303.9016	26.08	15872.316	0.877	0.423	0.423	0.76	0.77	NO	50.0
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.069	1.30	0.77	YES	14.2
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.101	0.51	0.77	YES	13.0
35	Total-tetrafurans	303.9016	25.59	3494.462	0.877	0.093	0.093	0.78	0.77	NO	10.1
35	Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.146	0.65	0.77	YES	19.6
35	Total-tetrafurans	303.9016	25.17	12474.002	0.877	0.332	0.332	0.74	0.77	NO	37.4
35	Total-tetrafurans	303.9016	24.99	24738.965	0.877	0.659	0.659	0.66	0.77	NO	61.6
35	Total-tetrafurans	303.9016	24.82	7958.079	0.877	0.212	0.212	0.87	0.77	NO	26.7
35	Total-tetrafurans	303.9016	24.75	13733.560	0.877	0.366	0.366	0.75	0.77	NO	32.0
35	Total-tetrafurans	303.9016	24.33	11755.827	0.877	0.313	0.313	0.82	0.77	NO	37.7
35	Total-tetrafurans	303.9016	27.50	0.000	0.877	0.000	0.117	0.58	0.77	YES	9.5
37	Total-pentafurans	339.8597	29.86	22373.527	0.911	0.736	0.736	1.37	1.55	NO	94.0
37	Total-pentafurans	339.8597	29.76	3778.914	0.911	0.124	0.124	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.082	1.81	1.55	YES	14.8
37	Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.031	0.95	1.55	YES	7.2
37	Total-pentafurans	339.8597	29.15	36864.476	0.911	1.214	1.214	1.33	1.55	NO	223.2
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.681	1.86	1.55	YES	145.3
37	Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.351	1.94	1.55	YES	63.2
37	Total-pentafurans	339.8597	32.59	0.000	0.911	0.000	0.041	1.17	1.55	YES	5.2
3	23478-PeCDF	339.8597	31.56	12082.893	0.926	0.000	0.367	1.30	1.55	YES	70.5
37	Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.347	1.30	1.55	YES	59.5
37	Total-pentafurans	339.8597	31.30	5951.928	0.911	0.196	0.196	1.34	1.55	NO	33.5
37	Total-pentafurans	339.8597	30.53	3798.094	0.911	0.125	0.125	1.39	1.55	NO	27.4
37	Total-pentafurans	339.8597	30.42	10313.863	0.911	0.340	0.340	1.52	1.55	NO	57.4
2	12378-PeCDF	339.8597	30.22	10378.765	0.896	0.344	0.344	1.41	1.55	NO	60.0
7	123789-HxCDF	373.8208	37.46	10310.033	0.987	0.378	0.378	1.26	1.24	NO	50.8
5	234678-HxCDF	373.8208	36.33	28095.728	1.037	1.074	1.074	1.19	1.24	NO	99.4
38	Total-hexafurans	373.8208	35.76	1736.902	1.032	0.063	0.063	1.32	1.24	NO	11.5
6	123678-HxCDF	373.8208	35.40	20735.401	1.035	0.729	0.729	1.25	1.24	NO	105.7
4	123478-HxCDF	373.8208	35.25	24516.917	1.068	0.875	0.875	1.15	1.24	NO	124.0
38	Total-hexafurans	373.8208	35.09	6250.848	1.032	0.227	0.227	1.30	1.24	NO	31.9
38	Total-hexafurans	373.8208	34.60	235870.617	1.032	8.580	8.580	1.15	1.24	NO	1181.7
38	Total-hexafurans	373.8208	34.27	4054.354	1.032	0.147	0.147	1.09	1.24	NO	19.7
38	Total-hexafurans	373.8208	33.73	212511.540	1.032	7.730	7.730	1.18	1.24	NO	1076.9
38	Total-hexafurans	373.8208	33.51	80185.950	1.032	2.917	2.917	1.14	1.24	NO	417.2
9	1234789-HpCDF	407.7818	42.24	16659.307	1.215	0.820	0.820	0.92	1.05	NO	49.8
39	Total-heptafurans	407.7818	41.37	1295.838	1.223	0.056	0.056	1.16	1.05	NO	6.2

VR82: 01045

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRP M	pg	EMPC	1 st Rat	1 st Rat	1 st R	SN
39	Total-heptafurans	407.7818	40.33	599623.094	1.223	25.793	25.793	0.98	1.05	NO	2055.5
39	Total-heptafurans	407.7818	40.03	9013.700	1.223	0.388	0.388	1.07	1.05	NO	27.7
8	1234678-HpCDF	407.7818	39.54	334459.625	1.232	12.763	12.763	0.97	1.05	NO	1166.0
10	OCDF	441.7428	47.55	561388.328	1.138	36.141	36.141	0.83	0.89	NO	1249.8
36	Total-penta1	339.8597	27.50	193819.367		6.340	6.340	1.61	1.55	NO	3299.4
35	Total-tetrafurans	303.9016	24.18	9700.650	0.877	0.258	0.258	0.75	0.77	NO	31.9
35	Total-tetrafurans	303.9016	24.08	0.000	0.877	0.000	0.370	0.59	0.77	YES	44.6
35	Total-tetrafurans	303.9016	23.93	0.000	0.877	0.000	0.116	0.61	0.77	YES	15.6
35	Total-tetrafurans	303.9016	23.84	17031.890	0.877	0.453	0.453	0.71	0.77	NO	44.4
35	Total-tetrafurans	303.9016	23.73	10768.290	0.877	0.287	0.287	0.67	0.77	NO	29.4
35	Total-tetrafurans	303.9016	23.61	7670.965	0.877	0.204	0.204	0.67	0.77	NO	18.4
35	Total-tetrafurans	303.9016	23.55	6503.091	0.877	0.173	0.173	0.65	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.43	45543.807	0.877	1.212	1.212	0.75	0.77	NO	132.4
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.211	0.62	0.77	YES	26.3
35	Total-tetrafurans	303.9016	22.58	6180.885	0.877	0.165	0.165	0.78	0.77	NO	21.3
35	Total-tetrafurans	303.9016	26.30	18430.557	0.877	0.491	0.491	0.85	0.77	NO	59.2
35	Total-tetrafurans	303.9016	26.21	6653.133	0.877	0.177	0.177	0.78	0.77	NO	22.6
1	2378-TCDF	303.9016	26.08	15872.316	0.877	0.423	0.423	0.76	0.77	NO	50.0
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.069	1.30	0.77	YES	14.2
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.101	0.51	0.77	YES	13.0
35	Total-tetrafurans	303.9016	25.59	3494.462	0.877	0.093	0.093	0.78	0.77	NO	10.1
35	Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.146	0.65	0.77	YES	19.6
35	Total-tetrafurans	303.9016	25.17	12474.002	0.877	0.332	0.332	0.74	0.77	NO	37.4
35	Total-tetrafurans	303.9016	24.99	24738.965	0.877	0.659	0.659	0.66	0.77	NO	61.6
35	Total-tetrafurans	303.9016	24.82	7958.079	0.877	0.212	0.212	0.87	0.77	NO	26.7
35	Total-tetrafurans	303.9016	24.75	13733.560	0.877	0.366	0.366	0.75	0.77	NO	32.0
35	Total-tetrafurans	303.9016	24.33	11755.827	0.877	0.313	0.313	0.82	0.77	NO	37.7
35	Total-tetrafurans	303.9016	27.50	0.000	0.877	0.000	0.117	0.58	0.77	YES	9.5
37	Total-pentafurans	339.8597	29.86	22373.527	0.911	0.736	0.736	1.37	1.55	NO	94.0
37	Total-pentafurans	339.8597	29.76	3778.914	0.911	0.124	0.124	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.082	1.81	1.55	YES	14.8
37	Total-pentafurans	339.8597	29.44	0.000	0.911	0.000	0.031	0.95	1.55	YES	7.2
37	Total-pentafurans	339.8597	29.15	36864.476	0.911	1.214	1.214	1.33	1.55	NO	223.2
37	Total-pentafurans	339.8597	29.08	0.000	0.911	0.000	0.681	1.86	1.55	YES	145.3
37	Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.351	1.94	1.55	YES	63.2
37	Total-pentafurans	339.8597	32.59	0.000	0.911	0.000	0.041	1.17	1.55	YES	5.2
3	23478-PeCDF	339.8597	31.56	12082.893	0.926	0.000	0.367	1.30	1.55	YES	70.5
37	Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.347	1.30	1.55	YES	59.5
37	Total-pentafurans	339.8597	31.30	5951.928	0.911	0.196	0.196	1.34	1.55	NO	33.5
37	Total-pentafurans	339.8597	30.53	3798.094	0.911	0.125	0.125	1.39	1.55	NO	27.4
37	Total-pentafurans	339.8597	30.42	10313.863	0.911	0.340	0.340	1.52	1.55	NO	57.4
2	12378-PeCDF	339.8597	30.22	10378.765	0.896	0.344	0.344	1.41	1.55	NO	60.0
7	123789-HxCDF	373.8208	37.46	10310.033	0.987	0.378	0.378	1.26	1.24	NO	50.8
5	234678-HxCDF	373.8208	36.33	28095.728	1.037	1.074	1.074	1.19	1.24	NO	99.4
38	Total-hexafurans	373.8208	35.76	1736.902	1.032	0.063	0.063	1.32	1.24	NO	11.5
6	123678-HxCDF	373.8208	35.40	20735.401	1.035	0.729	0.729	1.25	1.24	NO	105.7
4	123478-HxCDF	373.8208	35.25	24516.917	1.068	0.875	0.875	1.15	1.24	NO	124.0
38	Total-hexafurans	373.8208	35.09	6250.848	1.032	0.227	0.227	1.30	1.24	NO	31.9
38	Total-hexafurans	373.8208	34.60	235870.617	1.032	8.580	8.580	1.15	1.24	NO	1181.7

VR82: 01046

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M	pg	EMPO	1 st Rat.	1 st Rat.	1 st F	S/N
99	38 Total-hexafurans	373.8208	34.27	4054.354	1.032	0.147	0.147	1.09	1.24	NO	19.7
100	38 Total-hexafurans	373.8208	33.73	212511.540	1.032	7.730	7.730	1.18	1.24	NO	1076.9
101	38 Total-hexafurans	373.8208	33.51	80185.950	1.032	2.917	2.917	1.14	1.24	NO	417.2
102	9 1234789-HpCDF	407.7818	42.24	16659.307	1.215	0.820	0.820	0.92	1.05	NO	49.8
103	39 Total-heptafurans	407.7818	41.37	1295.838	1.223	0.056	0.056	1.16	1.05	NO	6.2
104	39 Total-heptafurans	407.7818	40.33	599623.094	1.223	25.793	25.793	0.98	1.05	NO	2055.5
105	39 Total-heptafurans	407.7818	40.03	9013.700	1.223	0.388	0.388	1.07	1.05	NO	27.7
106	8 1234678-HpCDF	407.7818	39.54	334459.625	1.232	12.763	12.763	0.97	1.05	NO	1166.0
107	10 OCDF	441.7428	47.55	561388.328	1.138	36.141	36.141	0.83	0.89	NO	1249.8
108	36 Total-penta1	339.8597	27.50	193819.367		6.340	6.340	1.61	1.55	NO	3299.4

VR82: 01047

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

PFK1

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 st Rat.	1 st Rat.	1 st FL	S/N
48	FUNCTION1 PFK	330.9792	22.34	0.000							1.2
48	FUNCTION1 PFK	330.9792	22.06	0.000							0.5
48	FUNCTION1 PFK	330.9792	22.00	0.000							1.1
48	FUNCTION1 PFK	330.9792	21.69	0.000							1.9
48	FUNCTION1 PFK	330.9792	21.45	0.000							4.4
48	FUNCTION1 PFK	330.9792	21.36	0.000							6.2
48	FUNCTION1 PFK	330.9792	21.27	0.000							6.9
48	FUNCTION1 PFK	330.9792	21.21	0.000							8.5
48	FUNCTION1 PFK	330.9792	21.12	0.000							9.9
48	FUNCTION1 PFK	330.9792	24.64	0.000							0.7
48	FUNCTION1 PFK	330.9792	24.35	0.000							0.8
48	FUNCTION1 PFK	330.9792	24.30	0.000							1.2
48	FUNCTION1 PFK	330.9792	24.02	0.000							1.3
48	FUNCTION1 PFK	330.9792	23.61	0.000							1.3
48	FUNCTION1 PFK	330.9792	23.55	0.000							1.8
48	FUNCTION1 PFK	330.9792	23.42	0.000							1.1
48	FUNCTION1 PFK	330.9792	23.37	0.000							0.9
48	FUNCTION1 PFK	330.9792	23.25	0.000							0.8
48	FUNCTION1 PFK	330.9792	23.19	0.000							0.4
48	FUNCTION1 PFK	330.9792	22.96	0.000							1.0
48	FUNCTION1 PFK	330.9792	22.72	0.000							2.1
48	FUNCTION1 PFK	330.9792	22.66	0.000							0.7
48	FUNCTION1 PFK	330.9792	22.57	0.000							1.1
48	FUNCTION1 PFK	330.9792	22.52	0.000							1.1
48	FUNCTION1 PFK	330.9792	22.46	0.000							1.0
48	FUNCTION1 PFK	330.9792	27.98	0.000							1.1
48	FUNCTION1 PFK	330.9792	27.87	0.000							0.5
48	FUNCTION1 PFK	330.9792	27.72	0.000							1.2
48	FUNCTION1 PFK	330.9792	27.50	0.000							0.7
48	FUNCTION1 PFK	330.9792	27.38	0.000							1.8
48	FUNCTION1 PFK	330.9792	27.29	0.000							1.3
48	FUNCTION1 PFK	330.9792	27.21	0.000							1.0
48	FUNCTION1 PFK	330.9792	27.15	0.000							1.0
48	FUNCTION1 PFK	330.9792	26.11	0.000							2.8
48	FUNCTION1 PFK	330.9792	25.90	0.000							0.7
48	FUNCTION1 PFK	330.9792	25.81	0.000							2.7
48	FUNCTION1 PFK	330.9792	25.65	0.000							0.5
48	FUNCTION1 PFK	330.9792	25.59	0.000							0.8
48	FUNCTION1 PFK	330.9792	25.51	0.000							1.1
48	FUNCTION1 PFK	330.9792	25.02	0.000							0.9
48	FUNCTION1 PFK	330.9792	24.70	0.000							2.1
48	FUNCTION1 PFK	330.9792	28.23	0.000							0.3

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs Resp	RPF M.	pg	EMPC	1 st Ret.	1 st Ret.	1 st R.	S/N
1	49 FUNCTION2 PFK	366.9792	31.70	0.000		0.000					1.0
2	49 FUNCTION2 PFK	366.9792	31.43	0.000		0.000					1.3
3	49 FUNCTION2 PFK	366.9792	31.41	0.000		0.000					1.2
4	49 FUNCTION2 PFK	366.9792	30.68	0.000		0.000					0.9
5	49 FUNCTION2 PFK	366.9792	30.58	0.000		0.000					1.5
6	49 FUNCTION2 PFK	366.9792	30.55	0.000		0.000					0.7
7	49 FUNCTION2 PFK	366.9792	30.07	0.000		0.000					1.7
8	49 FUNCTION2 PFK	366.9792	29.82	0.000		0.000					1.1
9	49 FUNCTION2 PFK	366.9792	29.72	0.000		0.000					1.3
10	49 FUNCTION2 PFK	366.9792	29.58	0.000		0.000					1.4
11	49 FUNCTION2 PFK	366.9792	29.53	0.000		0.000					0.4
12	49 FUNCTION2 PFK	366.9792	29.26	0.000		0.000					1.0
13	49 FUNCTION2 PFK	366.9792	28.82	0.000		0.000					1.2
14	49 FUNCTION2 PFK	366.9792	28.52	0.000		0.000					1.1
15	49 FUNCTION2 PFK	366.9792	32.62	0.000		0.000					1.1
16	49 FUNCTION2 PFK	366.9792	32.40	0.000		0.000					2.8
17	49 FUNCTION2 PFK	366.9792	32.09	0.000		0.000					1.5
18	49 FUNCTION2 PFK	366.9792	31.74	0.000		0.000					1.0

VR82 : 01049

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

PFK3

#	Name	Trace	RT	Abs. Resp.	RRF M...	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	50 FUNCTION3 PFK	380.9760	34.65	0.000		0.000					1.8
2	50 FUNCTION3 PFK	380.9760	34.59	0.000		0.000					1.9
3	50 FUNCTION3 PFK	380.9760	34.51	0.000		0.000					1.3
4	50 FUNCTION3 PFK	380.9760	34.27	0.000		0.000					0.9
5	50 FUNCTION3 PFK	380.9760	34.15	0.000		0.000					4.5
6	50 FUNCTION3 PFK	380.9760	33.87	0.000		0.000					3.6
7	50 FUNCTION3 PFK	380.9760	33.53	0.000		0.000					16.5
8	50 FUNCTION3 PFK	380.9760	33.42	0.000		0.000					19.7
9	50 FUNCTION3 PFK	380.9760	33.29	0.000		0.000					22.7
10	50 FUNCTION3 PFK	380.9760	33.24	0.000		0.000					25.2
11	50 FUNCTION3 PFK	380.9760	33.18	0.000		0.000					26.0
12	50 FUNCTION3 PFK	380.9760	37.00	0.000		0.000					2.3
13	50 FUNCTION3 PFK	380.9760	36.71	0.000		0.000					0.6
14	50 FUNCTION3 PFK	380.9760	36.66	0.000		0.000					0.9
15	50 FUNCTION3 PFK	380.9760	36.31	0.000		0.000					0.5
16	50 FUNCTION3 PFK	380.9760	36.19	0.000		0.000					0.7
17	50 FUNCTION3 PFK	380.9760	36.12	0.000		0.000					0.8
18	50 FUNCTION3 PFK	380.9760	36.04	0.000		0.000					1.0
19	50 FUNCTION3 PFK	380.9760	35.71	0.000		0.000					0.9
20	50 FUNCTION3 PFK	380.9760	35.62	0.000		0.000					0.8
21	50 FUNCTION3 PFK	380.9760	35.57	0.000		0.000					0.7
22	50 FUNCTION3 PFK	380.9760	35.51	0.000		0.000					0.5
23	50 FUNCTION3 PFK	380.9760	35.30	0.000		0.000					0.6
24	50 FUNCTION3 PFK	380.9760	35.10	0.000		0.000					2.0
25	50 FUNCTION3 PFK	380.9760	34.87	0.000		0.000					0.7
26	50 FUNCTION3 PFK	380.9760	34.83	0.000		0.000					0.6
27	50 FUNCTION3 PFK	380.9760	34.72	0.000		0.000					1.6
28	50 FUNCTION3 PFK	380.9760	38.47	0.000		0.000					0.4
29	50 FUNCTION3 PFK	380.9760	38.39	0.000		0.000					1.6
30	50 FUNCTION3 PFK	380.9760	38.29	0.000		0.000					2.8
31	50 FUNCTION3 PFK	380.9760	38.08	0.000		0.000					0.7
32	50 FUNCTION3 PFK	380.9760	37.91	0.000		0.000					0.7
33	50 FUNCTION3 PFK	380.9760	37.83	0.000		0.000					0.6
34	50 FUNCTION3 PFK	380.9760	37.79	0.000		0.000					0.4
35	50 FUNCTION3 PFK	380.9760	37.64	0.000		0.000					1.3
36	50 FUNCTION3 PFK	380.9760	37.45	0.000		0.000					8.1
37	50 FUNCTION3 PFK	380.9760	37.36	0.000		0.000					9.8
38	50 FUNCTION3 PFK	380.9760	37.27	0.000		0.000					5.2
39	50 FUNCTION3 PFK	380.9760	37.18	0.000		0.000					3.8
40	50 FUNCTION3 PFK	380.9760	37.11	0.000		0.000					3.1
41	50 FUNCTION3 PFK	380.9760	37.04	0.000		0.000					2.6

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

PFK4

	#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
1	51	FUNCTION4 PFK	430.9728	38.56	0.000							0.9
2	51	FUNCTION4 PFK	430.9728	44.53	0.000							0.9
3	51	FUNCTION4 PFK	430.9728	44.04	0.000							1.2
4	51	FUNCTION4 PFK	430.9728	43.75	0.000							0.4
5	51	FUNCTION4 PFK	430.9728	43.11	0.000							1.7
6	51	FUNCTION4 PFK	430.9728	43.00	0.000							1.3
7	51	FUNCTION4 PFK	430.9728	41.73	0.000							1.8
8	51	FUNCTION4 PFK	430.9728	41.17	0.000							1.4
9	51	FUNCTION4 PFK	430.9728	40.89	0.000							0.9
10	51	FUNCTION4 PFK	430.9728	39.97	0.000							0.9
11	51	FUNCTION4 PFK	430.9728	39.66	0.000							1.7
12	51	FUNCTION4 PFK	430.9728	38.65	0.000							0.6
13	51	FUNCTION4 PFK	430.9728	38.61	0.000							0.9

PFK5

	#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
1	52	FUNCTION5 PFK	480.9696	45.29	0.000							0.6
2	52	FUNCTION5 PFK	480.9696	45.19	0.000							0.6
3	52	FUNCTION5 PFK	480.9696	45.10	0.000							0.8
4	52	FUNCTION5 PFK	480.9696	47.64	0.000							2.4
5	52	FUNCTION5 PFK	480.9696	47.59	0.000							1.3
6	52	FUNCTION5 PFK	480.9696	47.52	0.000							1.4
7	52	FUNCTION5 PFK	480.9696	47.33	0.000							0.8
8	52	FUNCTION5 PFK	480.9696	47.29	0.000							0.6
9	52	FUNCTION5 PFK	480.9696	46.82	0.000							0.7
10	52	FUNCTION5 PFK	480.9696	46.53	0.000							0.7
11	52	FUNCTION5 PFK	480.9696	46.45	0.000							1.7
12	52	FUNCTION5 PFK	480.9696	46.42	0.000							0.8
13	52	FUNCTION5 PFK	480.9696	46.35	0.000							1.3
14	52	FUNCTION5 PFK	480.9696	46.18	0.000							1.0
15	52	FUNCTION5 PFK	480.9696	46.12	0.000							0.8
16	52	FUNCTION5 PFK	480.9696	46.03	0.000							0.9
17	52	FUNCTION5 PFK	480.9696	45.66	0.000							0.5
18	52	FUNCTION5 PFK	480.9696	45.50	0.000							1.6
19	52	FUNCTION5 PFK	480.9696	45.38	0.000							1.6
20	52	FUNCTION5 PFK	480.9696	48.88	0.000							1.3
21	52	FUNCTION5 PFK	480.9696	48.81	0.000							0.9
22	52	FUNCTION5 PFK	480.9696	48.72	0.000							0.9
23	52	FUNCTION5 PFK	480.9696	48.37	0.000							0.8
24	52	FUNCTION5 PFK	480.9696	48.32	0.000							2.0
25	52	FUNCTION5 PFK	480.9696	48.28	0.000							2.0
26	52	FUNCTION5 PFK	480.9696	48.24	0.000							0.7
27	52	FUNCTION5 PFK	480.9696	48.05	0.000							1.7
28	52	FUNCTION5 PFK	480.9696	47.93	0.000							0.8
29	52	FUNCTION5 PFK	480.9696	47.88	0.000							1.6
30	52	FUNCTION5 PFK	480.9696	47.84	0.000							1.5
31	52	FUNCTION5 PFK	480.9696	47.73	0.000							0.7
32	52	FUNCTION5 PFK	480.9696	47.66	0.000							1.8

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

ETHERS1

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
53	FUNCTION1 HXCD...	375.8364	22.54	0.000		0.000					4.2
53	FUNCTION1 HXCD...	375.8364	21.79	0.000		0.000					6.5
53	FUNCTION1 HXCD...	375.8364	27.63	0.000		0.000					6.3
53	FUNCTION1 HXCD...	375.8364	26.68	0.000		0.000					4.2
53	FUNCTION1 HXCD...	375.8364	25.90	0.000		0.000					5.7
53	FUNCTION1 HXCD...	375.8364	25.32	0.000		0.000					3.8
53	FUNCTION1 HXCD...	375.8364	25.14	0.000		0.000					4.1
53	FUNCTION1 HXCD...	375.8364	24.09	0.000		0.000					4.3
53	FUNCTION1 HXCD...	375.8364	23.96	0.000		0.000					18.4

ETHERS2

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	25.56	0.000		0.000					2.6
54	FUNCTION1 HPCD...	409.7974	23.14	0.000		0.000					2.6
54	FUNCTION1 HPCD...	409.7974	22.06	0.000		0.000					2.3

ETHERS3

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
55	FUNCTION2 HPCD...	409.7974	30.85	0.000		0.000					2.0
55	FUNCTION2 HPCD...	409.7974	30.34	0.000		0.000					5.8
55	FUNCTION2 HPCD...	409.7974	30.22	0.000		0.000					1.6
55	FUNCTION2 HPCD...	409.7974	29.86	0.000		0.000					4.0
55	FUNCTION2 HPCD...	409.7974	32.75	0.000		0.000					1.9

ETHERS4

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
56	FUNCTION3 OCDPE	445.7555	37.02	0.000		0.000					4.0

ETHERS5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
57	FUNCTION4 NCDPE	479.7165	39.13	0.000		0.000					787.6

ETHERS6

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N

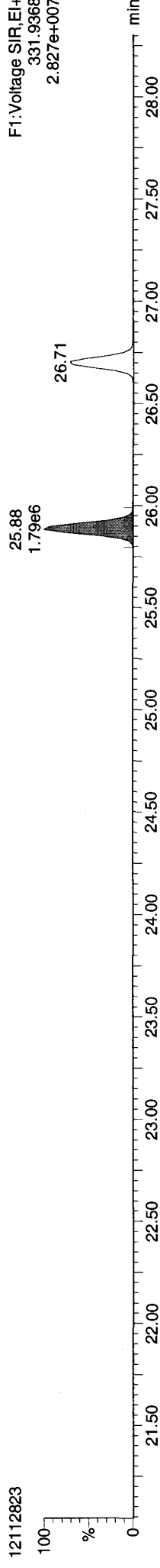
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

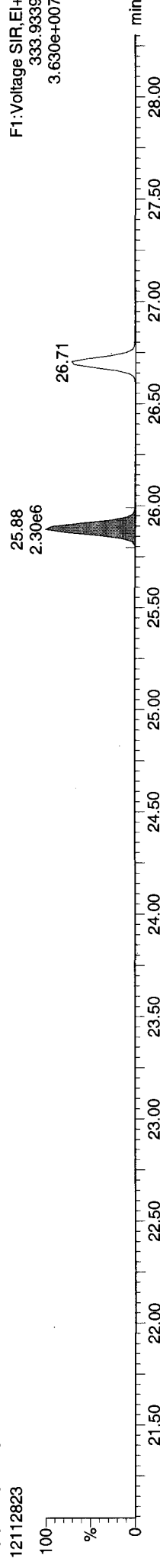
13C-1234-TCDD

12112823



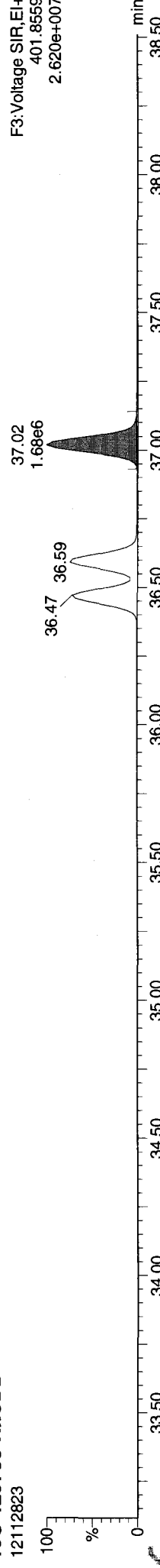
13C-1234-TCDD

12112823



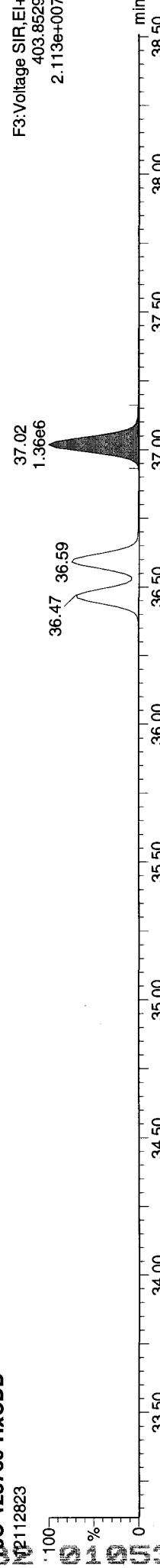
13C-123789-HxCDD

12112823



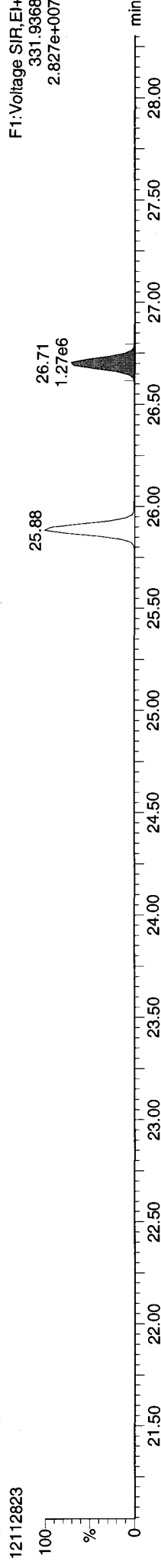
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12112823

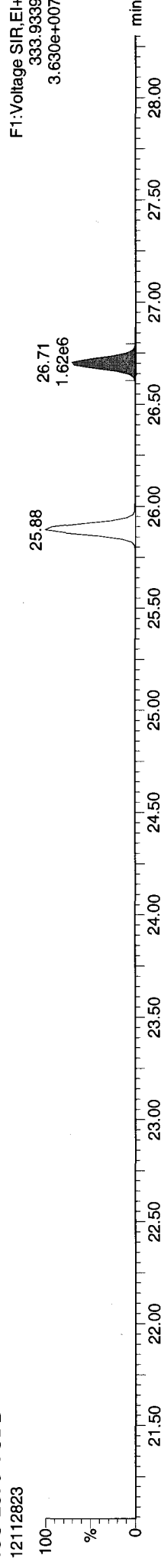


Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

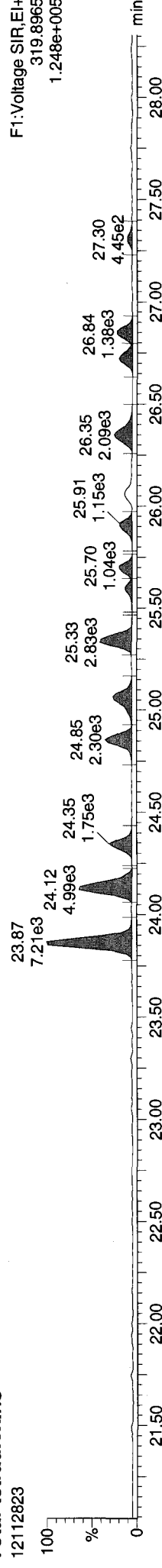
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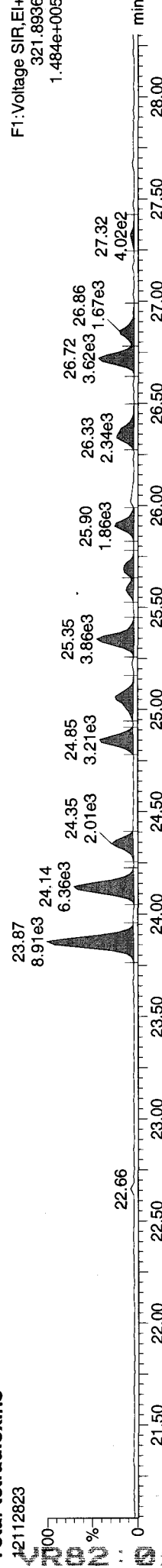
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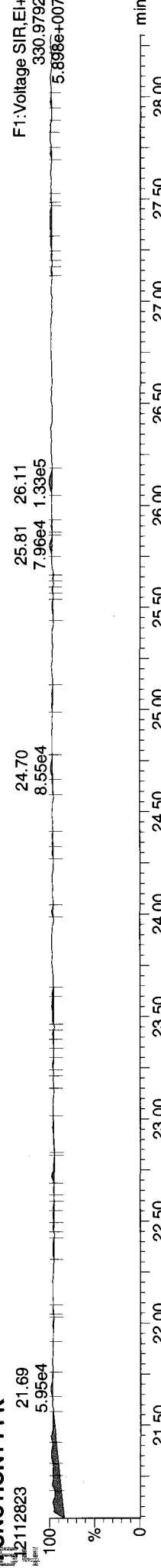
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK



Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

12112823

100%
0

F1: Voltage SIR, EI+
315.9419
2.972e+007



MANUAL ADJUSTMENTS

1. Peak not found

2. Poor Chromatography

3. Baseline Correction

4. Totals Calculation

5. Other *pk* Date *12/11/12*

13C-2378-TCDF

12112823

100%
0

F1: Voltage SIR, EI+
317.9389
3.814e+007



Total-tetrafurans

12112823

100%
0

F1: Voltage SIR, EI+
303.9016
2.986e+005



Total-tetrafurans

12112823

100%
0

F1: Voltage SIR, EI+
305.8987
3.914e+005



FUNCTION1 HXCDFE

12112823

100%
0

F1: Voltage SIR, EI+
375.8364
1.348e+004

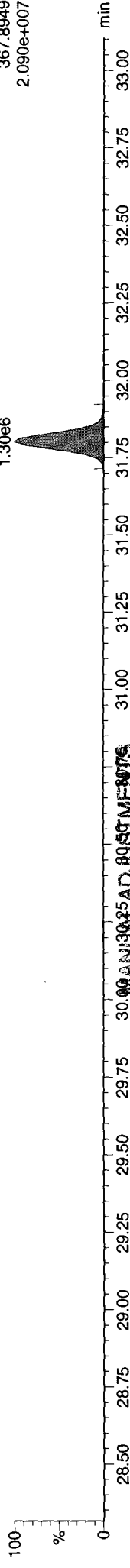


Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

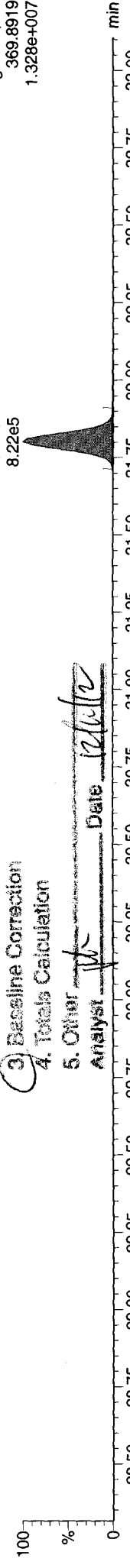
13C-12378-PeCDD

12112823



13C-12378-PeCDD

12112823

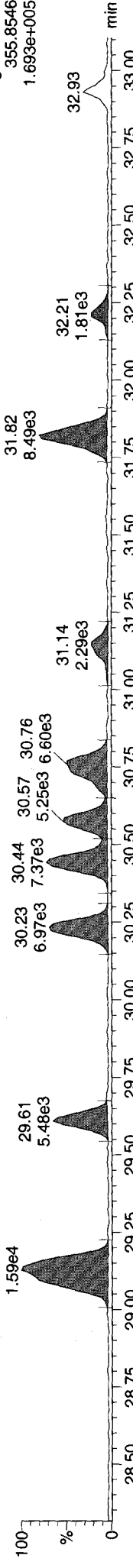


1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: *pk* Date: *12/11/12*

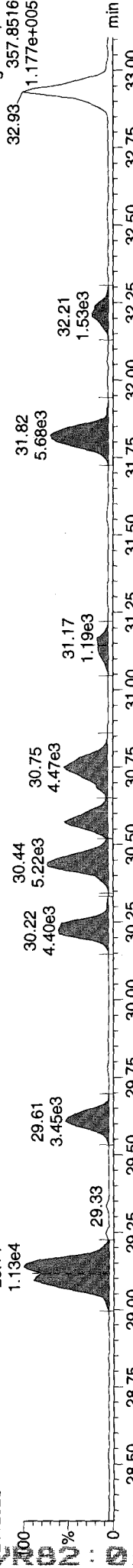
Total-pentadioxins

12112823



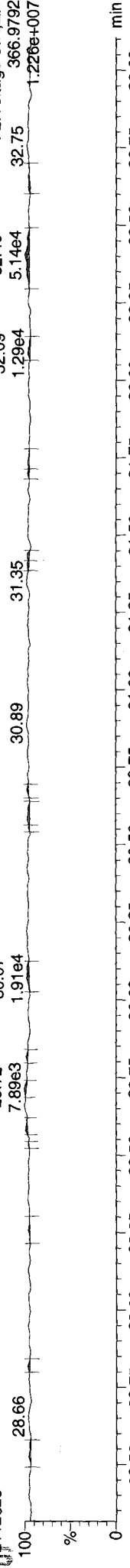
Total-pentadioxins

12112823



FUNCTION2 PFK

12112823



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

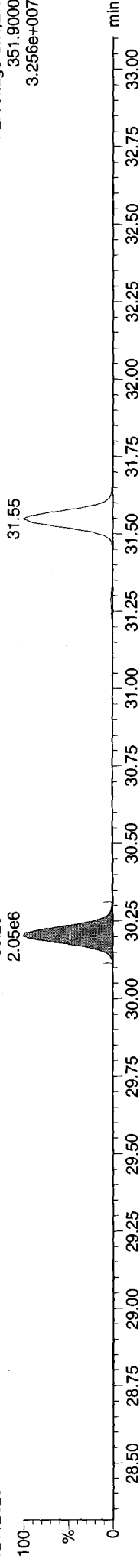
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

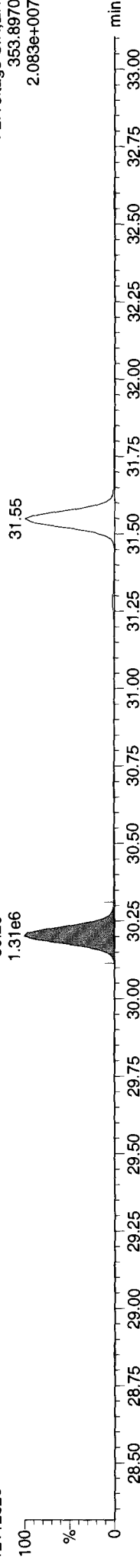
13C-12378-PeCDF

12112823



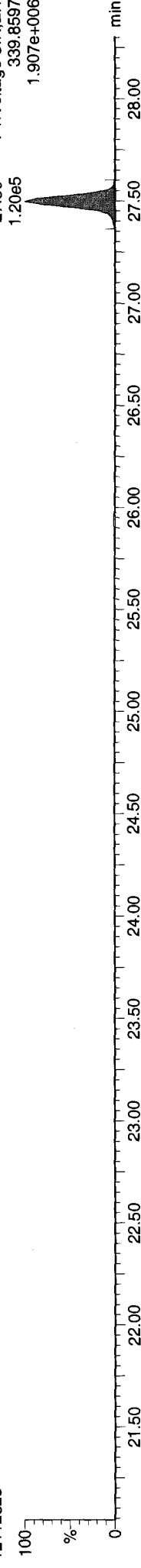
13C-12378-PeCDF

12112823



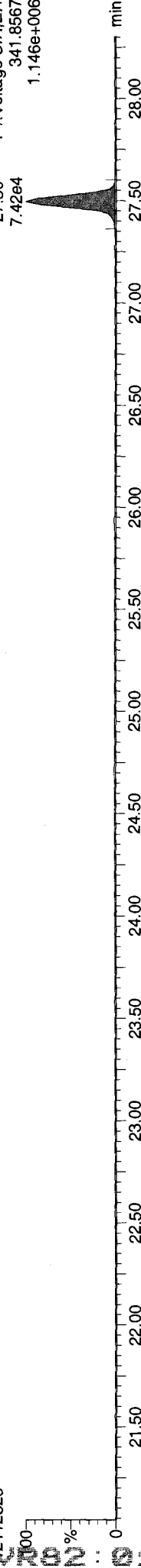
Total-penta1

12112823



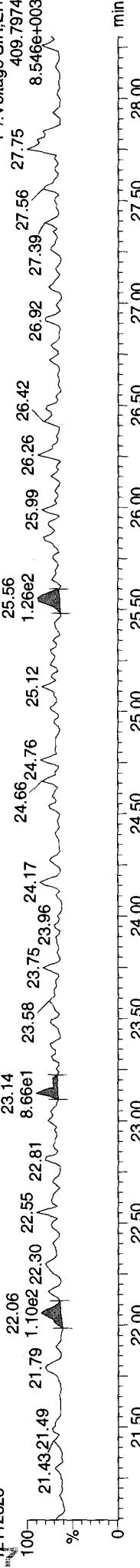
Total-penta1

12112823



FUNCTION1 HPCDPE

12112823

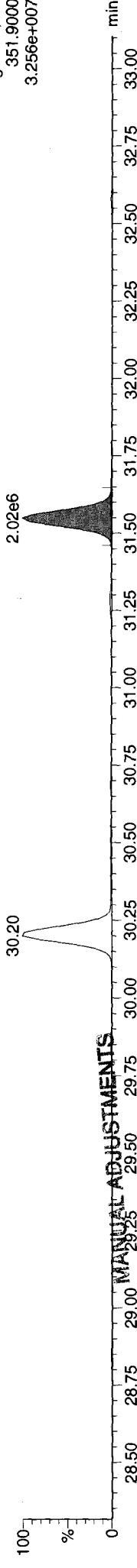


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

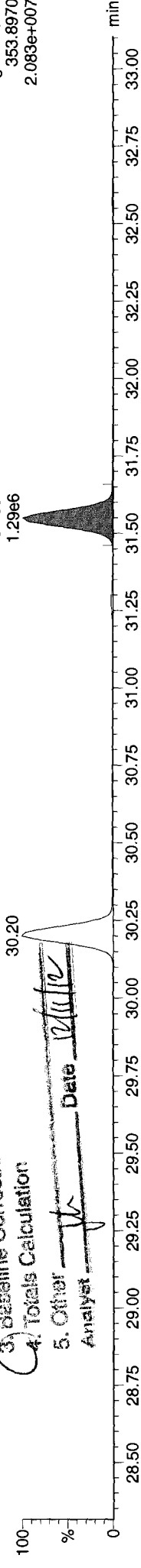
Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF
12112823

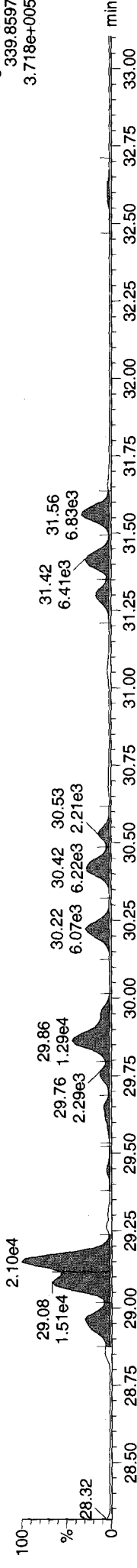


13C-23478-PeCDF
12112823

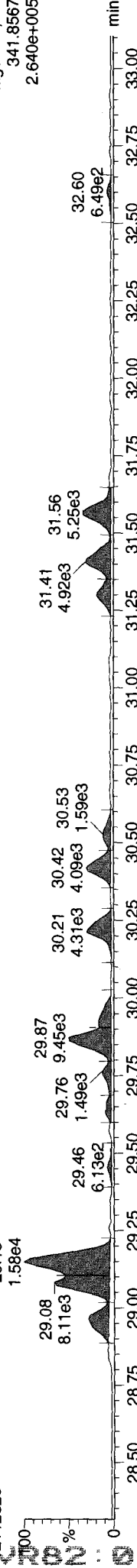
- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other



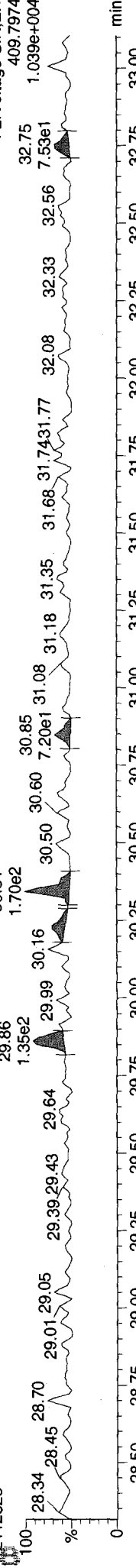
Total-pentafurans
12112823



Total-pentafurans
12112823



FUNCTION2 HPCDPE
12112823



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

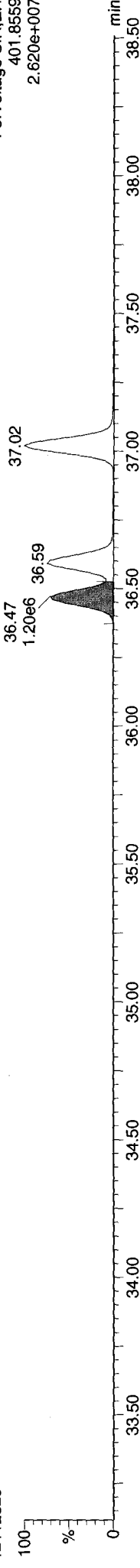
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

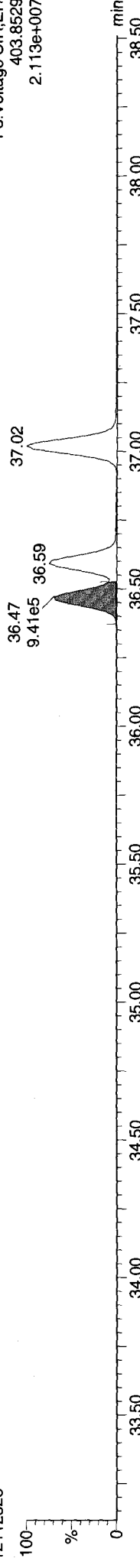
13C-123478-HxCDD

12112823



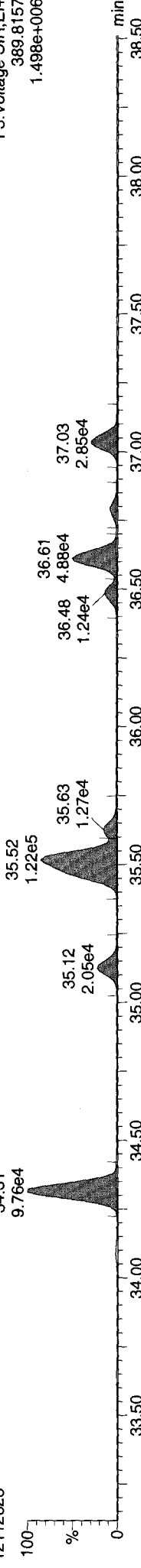
13C-123478-HxCDD

12112823



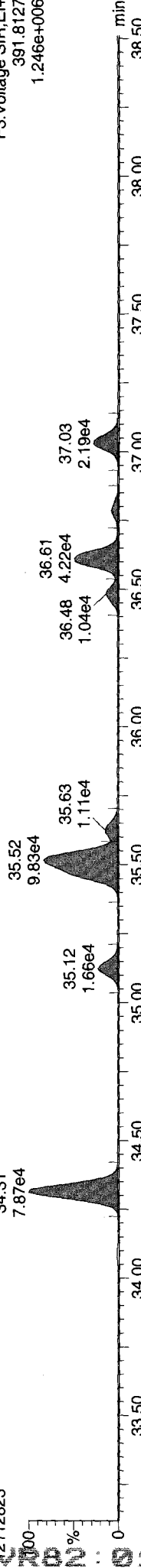
Total-hexadioxins

12112823



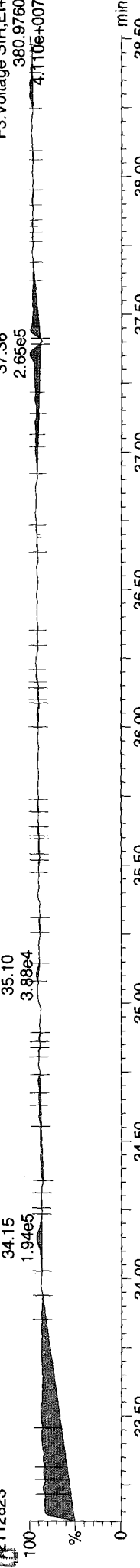
Total-hexadioxins

12112823



FUNCTION3 PFK

12112823



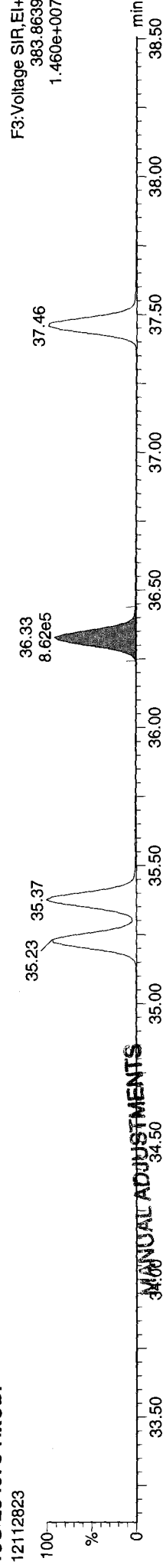
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

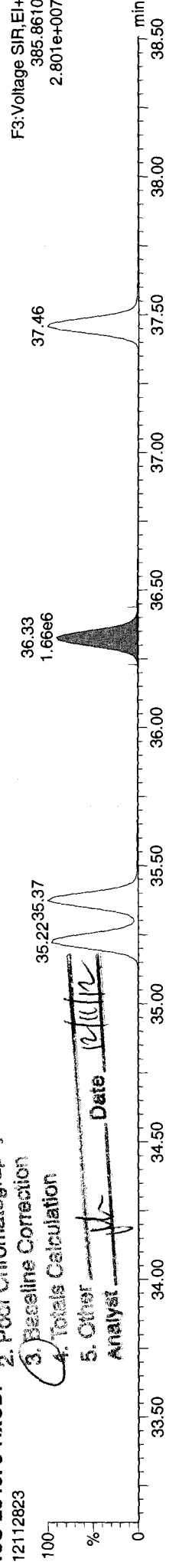
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF

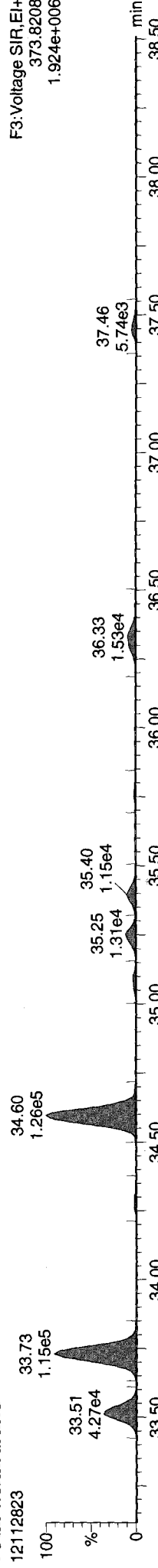


13C-234678-HxCDF

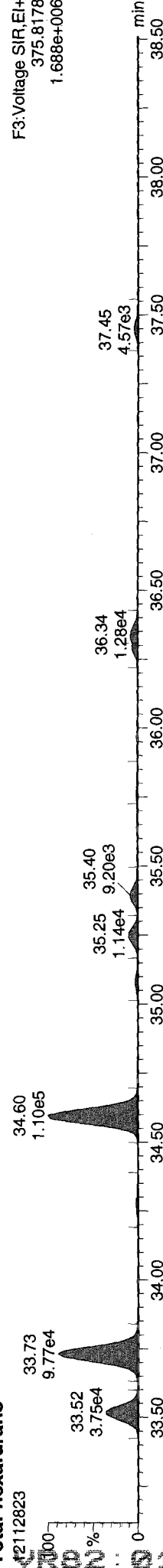


- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other
- Analyst: *[Signature]* Date: *12/11/12*

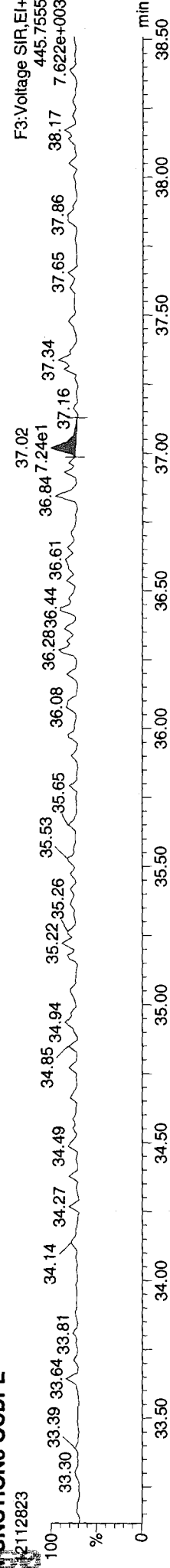
Total-hexafurans



Total-hexafurans

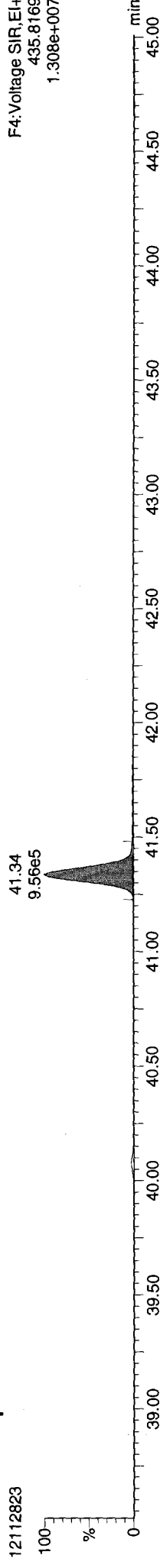


FUNCTION3 OCDPE

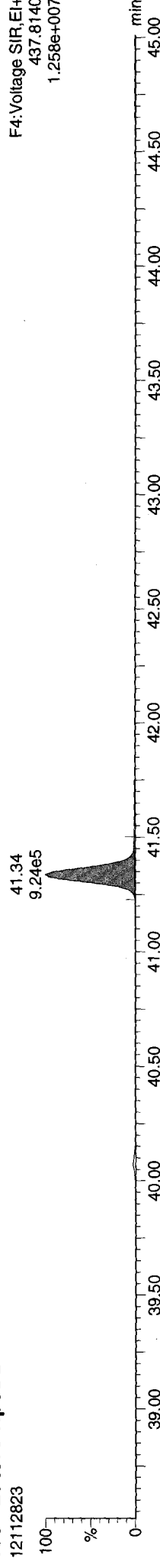


Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

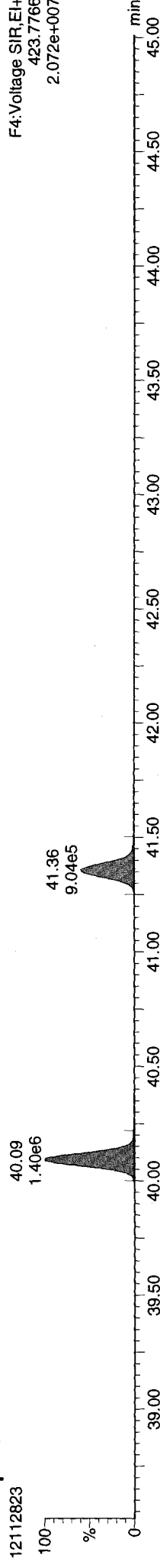
13C-1234678-HpCDD



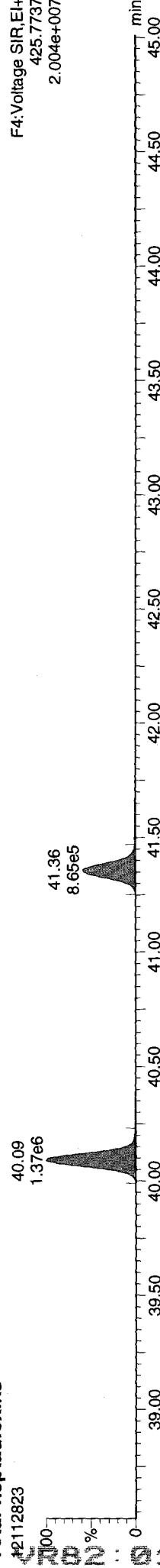
13C-1234678-HpCDD



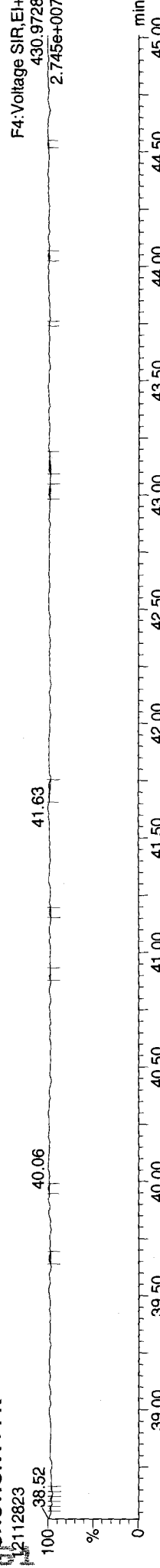
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

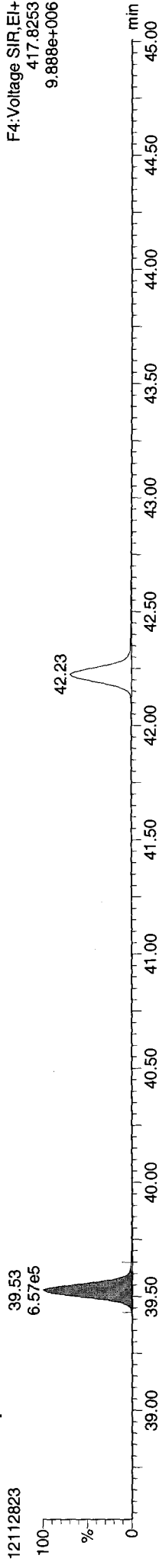


Quantify Sample Report MassLynx 4.1 SCN 714

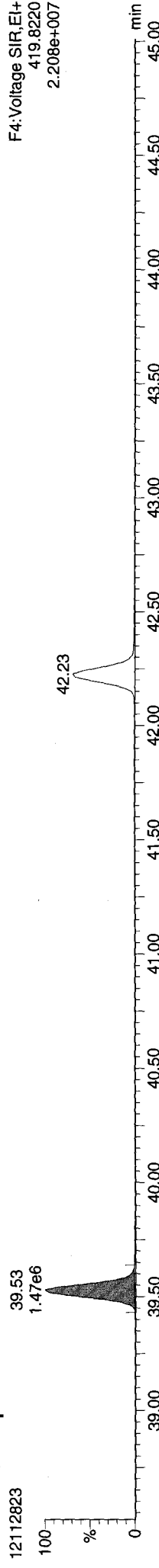
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

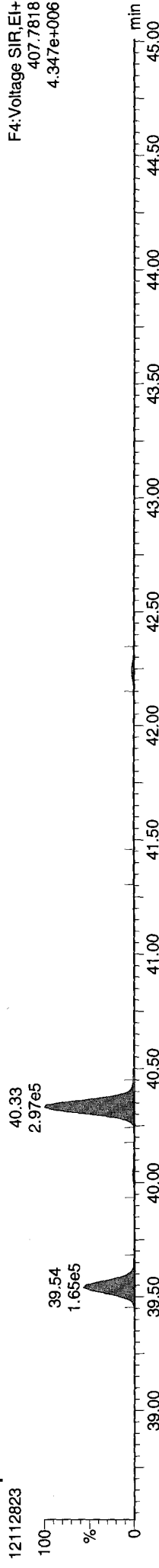
13C-1234678-HpCDF



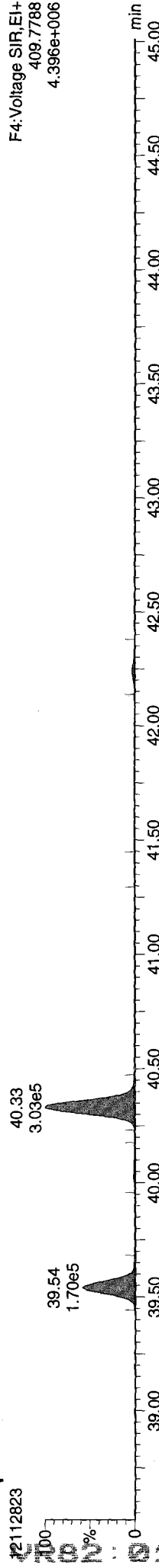
13C-1234678-HpCDF



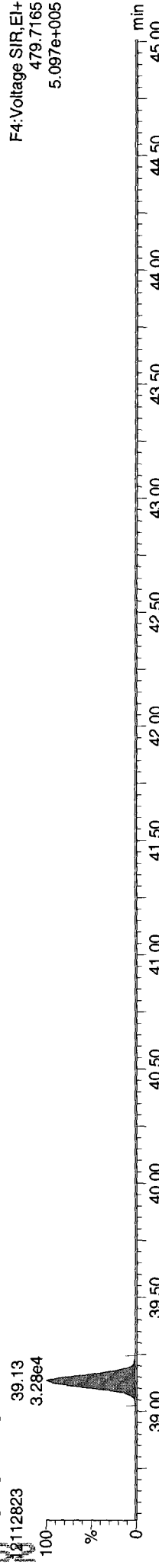
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

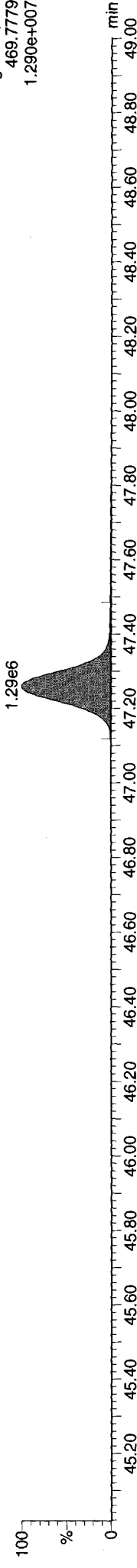
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

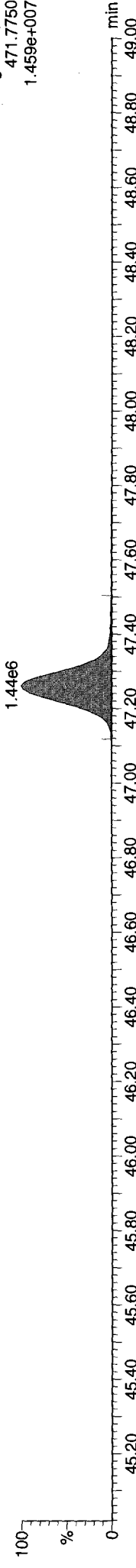
13C-OCDD

12112823



13C-OCDD

12112823



OCDD

12112823



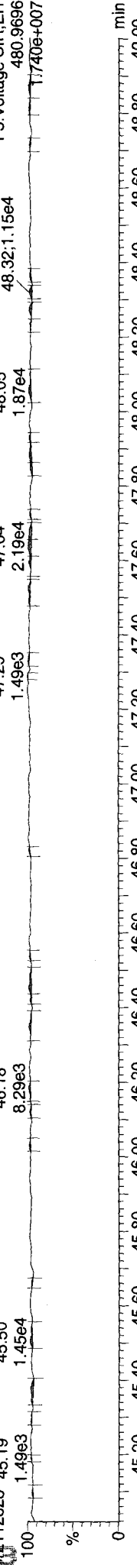
OCDD

12112823



FUNCTION5 PFK

12112823



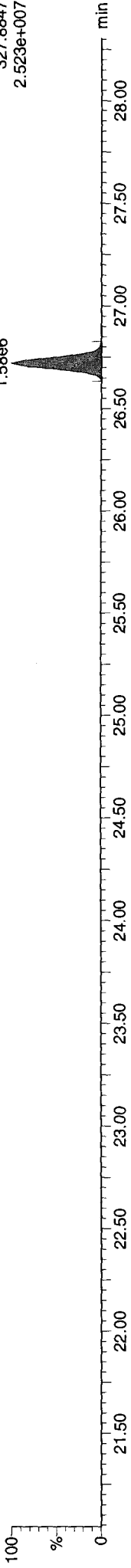
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:04 Pacific Standard Time

Name: 12112823, Date: 29-Nov-2012, Time: 05:23:23, ID: VR82D, Conditions: AUTOSPEC01, User: pk

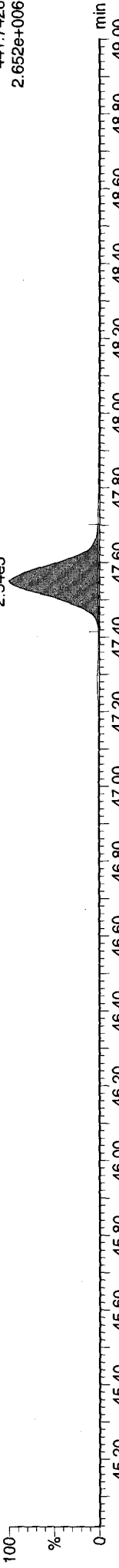
37CL-2378-TCDD

12112823



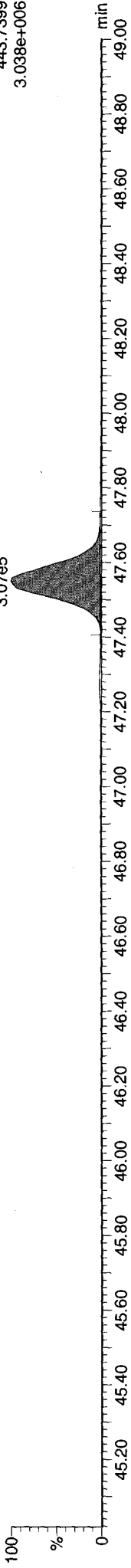
OCDF

12112823



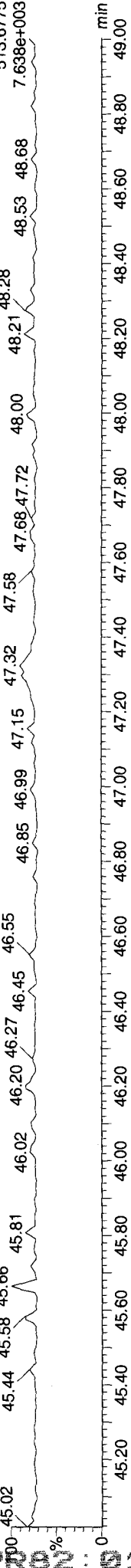
OCDF

12112823



FUNCTION5 DCDPE

12112823



12112823

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurvedB121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

Name	RT	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred.R	SN	Noise	Height	EMPC	NO	
2378-TCDF	26.078	1.001	4.50e3	6.60e3	0.877	0.683	0.770	53.7	1230	1434	6.61e4	1.02e5	0.486
12378-PeCDF	30.212	1.000	4.03e3	2.92e3	0.896	1.380	1.550	29.2	2169	3158	6.32e4	4.00e4	0.375
23478-PeCDF	31.559	1.001	4.57e3	3.47e3	0.926	1.315	1.550	31.3	2169	3158	6.79e4	5.78e4	0.387
123478-HxCDF	35.243	1.001	9.39e3	7.57e3	1.068	1.240	1.240	101.0	1517	2059	1.53e5	1.21e5	0.957
234678-HxCDF	36.317	1.000	1.12e4	9.58e3	1.037	1.171	1.240	81.3	1517	2059	1.23e5	1.03e5	1.279
123678-HxCDF	35.385	1.001	7.67e3	7.02e3	1.035	1.093	1.240	80.4	1517	2059	1.22e5	1.03e5	0.826
123789-HxCDF	37.446	1.000	3.81e3	3.12e3	0.987	1.223	1.240	32.2	1517	2059	4.89e4	4.53e4	0.425
1234678-HpCDF	39.528	1.000	1.22e5	1.24e5	1.232	0.984	1.050	951.7	1892	1035	1.80e6	1.89e6	15.751
1234789-HpCDF	42.225	1.000	5.74e3	6.41e3	1.215	0.895	1.050	38.4	1892	1035	7.27e4	8.79e4	0.994
OCDF	47.539	1.006	2.30e5	2.76e5	1.138	0.832	0.890	2535.5	913	1612	2.31e6	2.76e6	54.117
2378-TCDD	26.706	1.001	1.34e3	3.16e3	1.049	0.425	0.770	14.8	1410	1004	2.08e4	5.01e4	0.240
12378-PeCDD	31.812	1.001	6.07e3	4.56e3	0.998	1.332	1.550	51.0	1615	956	8.23e4	6.66e4	0.793
123478-HxCDD	36.470	1.001	8.99e3	7.90e3	0.971	1.138	1.240	87.4	1532	1443	1.34e5	1.20e5	1.331
123678-HxCDD	36.602	1.001	3.42e4	2.75e4	0.918	1.243	1.240	342.4	1532	1443	5.24e5	4.27e5	4.777
123789-HxCDD	37.018	1.012	1.99e4	1.63e4	0.932	1.222	1.240	198.2	1532	1443	3.04e5	2.48e5	2.856
1234678-HpCDD	41.348	1.000	6.93e5	6.74e5	1.017	1.028	1.050	1642.8	5810	3960	9.55e6	9.28e6	119.110
OCDD	47.261	1.000	4.95e6	5.54e6	1.008	0.895	0.890	24783.3	2052	3090	5.09e7	5.71e7	1265.389
13C-2378-TCDF	26.048	1.006	1.14e6	1.47e6	1.473	0.773	0.770	7322.7	2409	2091	1.76e7	2.28e7	48.770
13C-12378-PeCDF	30.201	1.167	1.26e6	8.09e5	1.148	1.561	1.550	7716.6	2613	2809	2.02e7	1.28e7	49.761
13C-23478-PeCDF	31.538	1.218	1.28e6	8.19e5	1.113	1.559	1.550	7862.8	2613	2809	2.05e7	1.32e7	51.933
13C-123478-HxCDF	35.221	0.952	5.67e5	1.09e6	1.209	0.520	0.510	4767.7	1827	3587	8.71e6	1.69e7	49.856
13C-123678-HxCDF	35.363	0.956	5.83e5	1.14e6	1.269	0.513	0.510	4931.5	1827	3587	9.01e6	1.77e7	49.267
13C-234678-HxCDF	36.317	0.981	5.33e5	1.04e6	1.236	0.514	0.510	4501.5	1827	3587	8.23e6	1.58e7	46.169
13C-123789-HxCDF	37.457	1.012	5.73e5	1.08e6	1.107	0.529	0.510	4769.8	1827	3587	8.72e6	1.66e7	54.372
13C-1234678-HpCDF	39.517	1.068	3.90e5	8.81e5	1.051	0.443	0.440	2918.9	1991	2522	5.81e6	1.30e7	43.965
13C-1234789-HpCDF	42.214	1.141	3.09e5	6.97e5	0.815	0.443	0.440	2045.0	1991	2522	4.07e6	9.20e6	44.914
13C-1234-TCDD	25.884	0.000	1.60e6	2.02e6	1.000	0.792	0.770	7170.7	3610	2235	2.59e7	3.26e7	100.000
13C-2378-TCDD	26.691	1.031	7.90e5	9.97e5	0.946	0.792	0.770	3473.8	3610	2235	1.25e7	1.59e7	52.093
13C-12378-PeCDD	31.790	1.228	8.21e5	5.21e5	0.721	1.575	1.550	5401.8	2375	1159	1.28e7	8.13e6	51.382
13C-123478-HxCDD	36.448	0.985	7.28e5	5.78e5	0.991	1.259	1.240	3307.4	3410	1775	1.13e7	9.06e6	47.936
13C-123678-HxCDD	36.580	0.988	7.80e5	6.25e5	1.025	1.248	1.240	3482.9	3410	1775	1.19e7	9.69e6	49.850
13C-1234678-HpCDD	41.326	1.117	5.77e5	5.52e5	0.866	1.047	1.050	3476.8	2286	1972	7.95e6	7.59e6	47.387
13C-OCDD	47.243	1.277	7.79e5	8.65e5	0.769	0.900	0.890	4123.3	1941	1486	8.00e6	8.92e6	77.728

pk 12/11/12

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

RT	Area	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height	Height 2	EMPC1	EMPC2	EMFC	pg
34	13C-123789-HxCDD	1.53e6	1.22e6	1.000	1.247	1.240	7004.4	3410	1775	2.39e7	1.91e7	NO			100.000
35	Total-tetrafurans	5.03e4		0.877				1230		7.53e5				7.769	5.322
36	Total-penta1	7.76e4						702		1.16e6				6.645	6.645
37	Total-pentafurans	4.47e4		0.911				2169		6.61e5				5.681	3.910
38	Total-hexafurans	2.32e5		1.032				1517		3.56e6				25.689	25.424
39	Total-heptafurans	3.71e5		1.223				1892		5.38e6				52.314	52.314
40	Total-Furans	1.01e6		1.041				1230		1.38e7				152.215	147.732
41	Total-tetradioxins	1.59e4		1.049				1410		2.53e5				2.456	2.014
42	Total-pentadioxins	2.07e4		0.998				1615		2.98e5				4.642	2.597
43	Total-hexadioxins	2.48e5		0.940				1532		3.43e6				35.219	35.219
44	Total-heptadioxins	2.37e6		1.017				5810		3.41e7				403.747	403.747
45	Total-Dioxins	4.52e7		0.985				1410		6.22e8				152.215	147.732
46	Total-TEQ	4.62e7						1410		6.36e8				304.429	295.463
47	37CL-2378-TCDD	1.39e6		1.044			13178.3	1603		2.11e7					36.613
48	FUNCTION1 PFK	1.76e6						592240		3.16e7					0.000
49	FUNCTION2 PFK	2.20e5						203518		4.70e6					0.000
50	FUNCTION3 PFK	2.32e5						464232		2.87e6					
51	FUNCTION4 PFK	2.52e5						291579		6.53e6					
52	FUNCTION5 PFK	3.41e5						224910		1.22e7					
53	FUNCTION1 HXCDPE	3.66e2						524		8.73e3					0.000
54	FUNCTION1 HPCDPE	1.13e3						948		2.05e4					0.000
55	FUNCTION2 HPCDPE	9.18e2						970		2.44e4					0.000
56	FUNCTION3 OCDPE	0.00e0						495		0.00e0					0.000
57	FUNCTION4 NCDPE	2.59e4						653		4.08e5					0.000
58	FUNCTION5 DCDPE	0.00e0						200		0.00e0					0.000

12/11/2012 09:20:29

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	PPF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
35	Total-tetrafurans	303.9016	24.32	7751.368	0.877	0.340	0.340	0.67	0.77	NO	41.2
35	Total-tetrafurans	303.9016	24.18	0.000	0.877	0.000	0.277	0.60	0.77	YES	38.5
35	Total-tetrafurans	303.9016	24.08	11303.678	0.877	0.495	0.495	0.68	0.77	NO	59.2
35	Total-tetrafurans	303.9016	23.91	3225.419	0.877	0.141	0.141	0.78	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.447	0.60	0.77	YES	55.3
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.289	0.64	0.77	YES	31.7
35	Total-tetrafurans	303.9016	23.60	10230.749	0.877	0.448	0.448	0.79	0.77	NO	34.3
35	Total-tetrafurans	303.9016	23.42	30366.834	0.877	1.330	1.330	0.69	0.77	NO	152.1
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.225	0.60	0.77	YES	32.1
35	Total-tetrafurans	303.9016	22.58	4803.862	0.877	0.210	0.210	0.73	0.77	NO	30.0
35	Total-tetrafurans	303.9016	27.50	3507.392	0.877	0.154	0.154	0.75	0.77	NO	17.0
35	Total-tetrafurans	303.9016	26.30	12887.894	0.877	0.565	0.565	0.66	0.77	NO	65.4
35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.163	0.57	0.77	YES	24.3
1	2378-TCDF	303.9016	26.08	11098.493	0.877	0.486	0.486	0.68	0.77	NO	53.7
35	Total-tetrafurans	303.9016	25.88	0.000	0.877	0.000	0.091	0.45	0.77	YES	12.9
35	Total-tetrafurans	303.9016	25.82	0.000	0.877	0.000	0.120	1.10	0.77	YES	20.9
35	Total-tetrafurans	303.9016	25.70	0.000	0.877	0.000	0.013	0.32	0.77	YES	2.4
35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.102	0.58	0.77	YES	13.3
35	Total-tetrafurans	303.9016	25.39	4643.029	0.877	0.203	0.203	0.83	0.77	NO	28.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.331	0.90	0.77	YES	50.8
35	Total-tetrafurans	303.9016	24.97	16692.795	0.877	0.731	0.731	0.69	0.77	NO	82.6
35	Total-tetrafurans	303.9016	24.82	4974.754	0.877	0.218	0.218	0.74	0.77	NO	28.7
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.391	0.92	0.77	YES	51.9

PP

#	Name	Trace	RT	Abs Resp	PPF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
36	Total-penta1	339.8597	27.48	126925.758		6.645	6.645	1.58	1.55	NO	1651.9

VR82 : 01057

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

PF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	37 Total-pentafurans	339.8597	30.41	6549.931	0.911	0.345	0.345	1.61	1.55	NO	32.1
2	2 12378-PeCDF	339.8597	30.21	6955.527	0.896	0.375	0.375	1.38	1.55	NO	29.2
3	37 Total-pentafurans	339.8597	29.86	14564.367	0.911	0.767	0.767	1.44	1.55	NO	49.0
4	37 Total-pentafurans	339.8597	29.75	2364.282	0.911	0.125	0.125	1.53	1.55	NO	9.3
5	37 Total-pentafurans	339.8597	29.63	2156.063	0.911	0.114	0.114	1.56	1.55	NO	7.9
6	37 Total-pentafurans	339.8597	29.47	0.000	0.911	0.000	0.018	2.63	1.55	YES	3.6
7	37 Total-pentafurans	339.8597	29.41	0.000	0.911	0.000	0.020	0.43	1.55	YES	3.4
8	37 Total-pentafurans	339.8597	29.14	26792.330	0.911	1.412	1.412	1.61	1.55	NO	114.7
9	37 Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	0.758	1.19	1.55	YES	74.7
10	37 Total-pentafurans	339.8597	28.95	0.000	0.911	0.000	0.444	1.23	1.55	YES	33.3
11	37 Total-pentafurans	339.8597	28.86	1562.168	0.911	0.082	0.082	1.74	1.55	NO	7.9
12	37 Total-pentafurans	339.8597	32.58	0.000	0.911	0.000	0.040	0.83	1.55	YES	4.7
13	3 23478-PeCDF	339.8597	31.56	8043.401	0.926	0.000	0.387	1.31	1.55	YES	31.3
14	37 Total-pentafurans	339.8597	31.42	7905.837	0.911	0.417	0.417	1.39	1.55	NO	30.7
15	37 Total-pentafurans	339.8597	31.29	5205.677	0.911	0.274	0.274	1.54	1.55	NO	23.9
16	37 Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.103	1.17	1.55	YES	10.2

HF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	7 123789-HxCDF	373.8208	37.45	6932.779	0.987	0.425	0.425	1.22	1.24	NO	32.2
2	5 234678-HxCDF	373.8208	36.32	20802.517	1.037	1.279	1.279	1.17	1.24	NO	81.3
3	38 Total-hexafurans	373.8208	35.75	1348.974	1.032	0.079	0.079	1.19	1.24	NO	9.5
4	6 123678-HxCDF	373.8208	35.38	14686.063	1.035	0.826	0.826	1.09	1.24	NO	80.4
5	4 123478-HxCDF	373.8208	35.24	16954.398	1.068	0.957	0.957	1.24	1.24	NO	101.0
6	38 Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.225	1.03	1.24	YES	23.1
7	38 Total-hexafurans	373.8208	34.58	173253.625	1.032	10.177	10.177	1.17	1.24	NO	931.5
8	38 Total-hexafurans	373.8208	34.27	3020.973	1.032	0.177	0.177	1.23	1.24	NO	20.0
9	38 Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.040	0.73	1.24	YES	7.2
10	38 Total-hexafurans	373.8208	33.72	143771.632	1.032	8.445	8.445	1.13	1.24	NO	790.3
11	38 Total-hexafurans	373.8208	33.51	52089.135	1.032	3.060	3.060	1.17	1.24	NO	299.2

HPF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	42.22	12154.737	1.215	0.994	0.994	0.90	1.05	NO	38.4
2	39 Total-heptafurans	407.7818	40.32	487639.266	1.223	34.999	34.999	0.96	1.05	NO	1833.4
3	39 Total-heptafurans	407.7818	40.03	7927.256	1.223	0.569	0.569	1.06	1.05	NO	21.7
4	8 1234678-HpCDF	407.7818	39.53	246647.164	1.232	15.751	15.751	0.98	1.05	NO	951.7

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RHF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	SN
35	Total-tetrafurans	303.9016	24.32	7751.368	0.877	0.340	0.340	0.67	0.77	NO	41.2
35	Total-tetrafurans	303.9016	24.18	0.000	0.877	0.000	0.277	0.60	0.77	YES	38.5
35	Total-tetrafurans	303.9016	24.08	11303.678	0.877	0.495	0.495	0.68	0.77	NO	59.2
35	Total-tetrafurans	303.9016	23.91	3225.419	0.877	0.141	0.141	0.78	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.447	0.60	0.77	YES	55.3
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.289	0.64	0.77	YES	31.7
35	Total-tetrafurans	303.9016	23.60	10230.749	0.877	0.448	0.448	0.79	0.77	NO	34.3
35	Total-tetrafurans	303.9016	23.42	30366.834	0.877	1.330	1.330	0.69	0.77	NO	152.1
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.225	0.60	0.77	YES	32.1
35	Total-tetrafurans	303.9016	22.58	4803.862	0.877	0.210	0.210	0.73	0.77	NO	30.0
35	Total-tetrafurans	303.9016	27.50	3507.392	0.877	0.154	0.154	0.75	0.77	NO	17.0
35	Total-tetrafurans	303.9016	26.30	12887.894	0.877	0.565	0.565	0.66	0.77	NO	65.4
35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.163	0.57	0.77	YES	24.3
1	2378-TCDF	303.9016	26.08	11098.493	0.877	0.486	0.486	0.68	0.77	NO	53.7
35	Total-tetrafurans	303.9016	25.88	0.000	0.877	0.000	0.091	0.45	0.77	YES	12.9
35	Total-tetrafurans	303.9016	25.82	0.000	0.877	0.000	0.120	1.10	0.77	YES	20.9
35	Total-tetrafurans	303.9016	25.70	0.000	0.877	0.000	0.013	0.32	0.77	YES	2.4
35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.102	0.58	0.77	YES	13.3
35	Total-tetrafurans	303.9016	25.39	4643.029	0.877	0.203	0.203	0.83	0.77	NO	28.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.331	0.90	0.77	YES	50.8
35	Total-tetrafurans	303.9016	24.97	16692.795	0.877	0.731	0.731	0.69	0.77	NO	82.6
35	Total-tetrafurans	303.9016	24.82	4974.754	0.877	0.218	0.218	0.74	0.77	NO	28.7
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.391	0.92	0.77	YES	51.9
37	Total-pentafurans	339.8597	30.41	6549.931	0.911	0.345	0.345	1.61	1.55	NO	32.1
2	12378-PeCDF	339.8597	30.21	6955.527	0.896	0.375	0.375	1.38	1.55	NO	29.2
37	Total-pentafurans	339.8597	29.86	14564.367	0.911	0.767	0.767	1.44	1.55	NO	49.0
37	Total-pentafurans	339.8597	29.75	2364.282	0.911	0.125	0.125	1.53	1.55	NO	9.3
37	Total-pentafurans	339.8597	29.63	2156.063	0.911	0.114	0.114	1.56	1.55	NO	7.9
37	Total-pentafurans	339.8597	29.47	0.000	0.911	0.000	0.018	2.63	1.55	YES	3.6
37	Total-pentafurans	339.8597	29.41	0.000	0.911	0.000	0.020	0.43	1.55	YES	3.4
37	Total-pentafurans	339.8597	29.14	26792.330	0.911	1.412	1.412	1.61	1.55	NO	114.7
37	Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	0.758	1.19	1.55	YES	74.7
37	Total-pentafurans	339.8597	28.95	0.000	0.911	0.000	0.444	1.23	1.55	YES	33.3
37	Total-pentafurans	339.8597	28.86	1562.168	0.911	0.082	0.082	1.74	1.55	NO	7.9
37	Total-pentafurans	339.8597	32.58	0.000	0.911	0.000	0.040	0.83	1.55	YES	4.7
3	23478-PeCDF	339.8597	31.56	8043.401	0.926	0.000	0.387	1.31	1.55	YES	31.3
37	Total-pentafurans	339.8597	31.42	7905.837	0.911	0.417	0.417	1.39	1.55	NO	30.7
37	Total-pentafurans	339.8597	31.29	5205.677	0.911	0.274	0.274	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.103	1.17	1.55	YES	10.2
7	123789-HxCDF	373.8208	37.45	6932.779	0.987	0.425	0.425	1.22	1.24	NO	32.2
5	234678-HxCDF	373.8208	36.32	20802.517	1.037	1.279	1.279	1.17	1.24	NO	81.3
38	Total-hexafurans	373.8208	35.75	1348.974	1.032	0.079	0.079	1.19	1.24	NO	9.5
6	123678-HxCDF	373.8208	35.38	14686.063	1.035	0.826	0.826	1.09	1.24	NO	80.4
4	123478-HxCDF	373.8208	35.24	16954.398	1.068	0.957	0.957	1.24	1.24	NO	101.0
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.225	1.03	1.24	YES	23.1
38	Total-hexafurans	373.8208	34.58	173253.625	1.032	10.177	10.177	1.17	1.24	NO	931.5
38	Total-hexafurans	373.8208	34.27	3020.973	1.032	0.177	0.177	1.23	1.24	NO	20.0
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.040	0.73	1.24	YES	7.2
38	Total-hexafurans	373.8208	33.72	143771.632	1.032	8.445	8.445	1.13	1.24	NO	790.3

VR82: 01055

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	38 Total-hexafurans	373.8208	33.51	52089.135	1.032	3.060	3.060	1.17	1.24	NO	299.2
51	9 1234789-HpCDF	407.7818	42.22	12154.737	1.215	0.994	0.994	0.90	1.05	NO	38.4
52	39 Total-heptafurans	407.7818	40.32	487639.266	1.223	34.999	34.999	0.96	1.05	NO	1833.4
53	39 Total-heptafurans	407.7818	40.03	7927.256	1.223	0.569	0.569	1.06	1.05	NO	21.7
54	8 1234678-HpCDF	407.7818	39.53	246647.164	1.232	15.751	15.751	0.98	1.05	NO	951.7
55	10 OCDF	441.7428	47.54	506153.640	1.138	54.117	54.117	0.83	0.89	NO	2535.5
56	36 Total-penta1	339.8597	27.48	126925.758		6.645	6.645	1.58	1.55	NO	1651.9

TD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	27.32	0.000	1.049	0.000	0.041	0.89	0.77	YES	5.8
2	41 Total-tetradoxins	319.8965	26.85	0.000	1.049	0.000	0.076	0.56	0.77	YES	6.9
3	11 2378-TCDD	319.8965	26.71	4496.612	1.049	0.000	0.164	0.42	0.77	YES	14.8
4	41 Total-tetradoxins	319.8965	26.33	3445.137	1.049	0.184	0.184	0.73	0.77	NO	14.3
5	41 Total-tetradoxins	319.8965	26.05	0.000	1.049	0.000	0.018	1.57	0.77	YES	3.1
6	41 Total-tetradoxins	319.8965	25.90	2504.966	1.049	0.134	0.134	0.74	0.77	NO	10.5
7	41 Total-tetradoxins	319.8965	25.69	1547.887	1.049	0.083	0.083	0.79	0.77	NO	9.1
8	41 Total-tetradoxins	319.8965	25.57	1170.446	1.049	0.062	0.062	0.68	0.77	NO	4.4
9	41 Total-tetradoxins	319.8965	25.33	4783.152	1.049	0.255	0.255	0.73	0.77	NO	22.0
10	41 Total-tetradoxins	319.8965	25.06	3459.976	1.049	0.185	0.185	0.68	0.77	NO	13.8
11	41 Total-tetradoxins	319.8965	24.84	3957.161	1.049	0.211	0.211	0.66	0.77	NO	16.8
12	41 Total-tetradoxins	319.8965	24.33	0.000	1.049	0.000	0.142	0.99	0.77	YES	18.6
13	41 Total-tetradoxins	319.8965	24.12	6946.981	1.049	0.371	0.371	0.76	0.77	NO	39.2
14	41 Total-tetradoxins	319.8965	23.85	9929.801	1.049	0.530	0.530	0.74	0.77	NO	49.3

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadoxins	355.8546	29.61	0.000	0.998	0.000	0.378	1.28	1.55	YES	27.5
2	42 Total-pentadoxins	355.8546	29.14	0.000	0.998	0.000	0.526	2.23	1.55	YES	64.1
3	42 Total-pentadoxins	355.8546	29.09	0.000	0.998	0.000	0.551	0.93	1.55	YES	62.5
4	42 Total-pentadoxins	355.8546	32.21	2407.706	0.998	0.180	0.180	1.75	1.55	NO	14.3
5	12 12378-PeCDD	355.8546	31.81	10632.017	0.998	0.793	0.793	1.33	1.55	NO	51.0
6	42 Total-pentadoxins	355.8546	31.14	0.000	0.998	0.000	0.094	3.33	1.55	YES	15.2
7	42 Total-pentadoxins	355.8546	30.76	0.000	0.998	0.000	0.318	1.20	1.55	YES	32.5
8	42 Total-pentadoxins	355.8546	30.72	0.000	0.998	0.000	0.178	3.18	1.55	YES	31.5
9	42 Total-pentadoxins	355.8546	30.57	5991.811	0.998	0.447	0.447	1.78	1.55	NO	33.0
10	42 Total-pentadoxins	355.8546	30.43	8112.206	0.998	0.605	0.605	1.40	1.55	NO	43.3
11	42 Total-pentadoxins	355.8546	30.22	7653.699	0.998	0.571	0.571	1.44	1.55	NO	43.2

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HD

	# Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
	15 123789-HxCDD	389.8157	37.02	36103.807	0.932	2.856	2.856	1.22	1.24	NO	198.2
	43 Total-hexadioxins	389.8157	36.78	9536.985	0.940	0.748	0.748	1.16	1.24	NO	51.8
	14 123678-HxCDD	389.8157	36.60	61614.605	0.918	4.777	4.777	1.24	1.24	NO	342.4
	13 123478-HxCDD	389.8157	36.47	16885.544	0.971	1.331	1.331	1.14	1.24	NO	87.4
	43 Total-hexadioxins	389.8157	35.60	17142.536	0.940	1.345	1.345	1.20	1.24	NO	91.9
	43 Total-hexadioxins	389.8157	35.51	159102.742	0.940	12.479	12.479	1.21	1.24	NO	607.3
	43 Total-hexadioxins	389.8157	35.12	26921.605	0.940	2.112	2.112	1.26	1.24	NO	159.0
	43 Total-hexadioxins	389.8157	34.31	122028.988	0.940	9.571	9.571	1.28	1.24	NO	701.6

HPD

	# Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	16 1234678-HpCDD	423.7766	41.35	1367417.500	1.017	119.110	119....	1.03	1.05	NO	1642.8
2	44 Total-heptadioxins	423.7766	40.08	3267698.625	1.017	284.636	284....	1.05	1.05	NO	4218.2

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Refl	1 st Refl	1 st R	S/N
35	Total-tetrafurans	303.9016	24.32	7751.368	0.877	0.340	0.340	0.67	0.77	NO	41.2
35	Total-tetrafurans	303.9016	24.18	0.000	0.877	0.000	0.277	0.60	0.77	YES	38.5
35	Total-tetrafurans	303.9016	24.08	11303.678	0.877	0.495	0.495	0.68	0.77	NO	59.2
35	Total-tetrafurans	303.9016	23.91	3225.419	0.877	0.141	0.141	0.78	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.447	0.60	0.77	YES	55.3
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.289	0.64	0.77	YES	31.7
35	Total-tetrafurans	303.9016	23.60	10230.749	0.877	0.448	0.448	0.79	0.77	NO	34.3
35	Total-tetrafurans	303.9016	23.42	30366.834	0.877	1.330	1.330	0.69	0.77	NO	152.1
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.225	0.60	0.77	YES	32.1
35	Total-tetrafurans	303.9016	22.58	4803.862	0.877	0.210	0.210	0.73	0.77	NO	30.0
35	Total-tetrafurans	303.9016	27.50	3507.392	0.877	0.154	0.154	0.75	0.77	NO	17.0
35	Total-tetrafurans	303.9016	26.30	12887.894	0.877	0.565	0.565	0.66	0.77	NO	65.4
35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.163	0.57	0.77	YES	24.3
1	2378-TCDF	303.9016	26.08	11098.493	0.877	0.486	0.486	0.68	0.77	NO	53.7
35	Total-tetrafurans	303.9016	25.88	0.000	0.877	0.000	0.091	0.45	0.77	YES	12.9
35	Total-tetrafurans	303.9016	25.82	0.000	0.877	0.000	0.120	1.10	0.77	YES	20.9
35	Total-tetrafurans	303.9016	25.70	0.000	0.877	0.000	0.013	0.32	0.77	YES	2.4
35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.102	0.58	0.77	YES	13.3
35	Total-tetrafurans	303.9016	25.39	4643.029	0.877	0.203	0.203	0.83	0.77	NO	28.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.331	0.90	0.77	YES	50.8
35	Total-tetrafurans	303.9016	24.97	16692.795	0.877	0.731	0.731	0.69	0.77	NO	82.6
35	Total-tetrafurans	303.9016	24.82	4974.754	0.877	0.218	0.218	0.74	0.77	NO	28.7
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.391	0.92	0.77	YES	51.9
37	Total-pentafurans	339.8597	30.41	6549.931	0.911	0.345	0.345	1.61	1.55	NO	32.1
2	12378-PeCDF	339.8597	30.21	6955.527	0.896	0.375	0.375	1.38	1.55	NO	29.2
37	Total-pentafurans	339.8597	29.86	14564.367	0.911	0.767	0.767	1.44	1.55	NO	49.0
37	Total-pentafurans	339.8597	29.75	2364.282	0.911	0.125	0.125	1.53	1.55	NO	9.3
37	Total-pentafurans	339.8597	29.63	2156.063	0.911	0.114	0.114	1.56	1.55	NO	7.9
37	Total-pentafurans	339.8597	29.47	0.000	0.911	0.000	0.018	2.63	1.55	YES	3.6
37	Total-pentafurans	339.8597	29.41	0.000	0.911	0.000	0.020	0.43	1.55	YES	3.4
37	Total-pentafurans	339.8597	29.14	26792.330	0.911	1.412	1.412	1.61	1.55	NO	114.7
37	Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	0.758	1.19	1.55	YES	74.7
37	Total-pentafurans	339.8597	28.95	0.000	0.911	0.000	0.444	1.23	1.55	YES	33.3
37	Total-pentafurans	339.8597	28.86	1562.168	0.911	0.082	0.082	1.74	1.55	NO	7.9
37	Total-pentafurans	339.8597	32.58	0.000	0.911	0.000	0.040	0.83	1.55	YES	4.7
3	23478-PeCDF	339.8597	31.56	8043.401	0.926	0.415	0.387	1.31	1.55	YES	31.3
37	Total-pentafurans	339.8597	31.42	7905.837	0.911	0.417	0.417	1.39	1.55	NO	30.7
37	Total-pentafurans	339.8597	31.29	5205.677	0.911	0.274	0.274	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.103	1.17	1.55	YES	10.2
7	123789-HxCDF	373.8208	37.45	6932.779	0.987	0.425	0.425	1.22	1.24	NO	32.2
5	234678-HxCDF	373.8208	36.32	20802.517	1.037	1.279	1.279	1.17	1.24	NO	81.3
38	Total-hexafurans	373.8208	35.75	1348.974	1.032	0.079	0.079	1.19	1.24	NO	9.5
6	123678-HxCDF	373.8208	35.38	14686.063	1.035	0.826	0.826	1.09	1.24	NO	80.4
4	123478-HxCDF	373.8208	35.24	16954.398	1.068	0.957	0.957	1.24	1.24	NO	101.0
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.225	1.03	1.24	YES	23.1
38	Total-hexafurans	373.8208	34.58	173253.625	1.032	10.177	10.177	1.17	1.24	NO	931.5
38	Total-hexafurans	373.8208	34.27	3020.973	1.032	0.177	0.177	1.23	1.24	NO	20.0
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.040	0.73	1.24	YES	7.2
38	Total-hexafurans	373.8208	33.72	143771.632	1.032	8.445	8.445	1.13	1.24	NO	790.3

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs. Resp	RRF	M	pg	EMPC	1 st Rat.	1 st Rat.	1 st R	SN
50	38	Total-hexafurans	373.8208	33.51	52089.135	1.032		3.060	3.060	1.17	1.24	NO	299.2
51	9	1234789-HpCDF	407.7818	42.22	12154.737	1.215		0.994	0.994	0.90	1.05	NO	38.4
52	39	Total-heptafurans	407.7818	40.32	487639.266	1.223		34.999	34.999	0.96	1.05	NO	1833.4
53	39	Total-heptafurans	407.7818	40.03	7927.256	1.223		0.569	0.569	1.06	1.05	NO	21.7
54	8	1234678-HpCDF	407.7818	39.53	246647.164	1.232		15.751	15.751	0.98	1.05	NO	951.7
55	10	OCDF	441.7428	47.54	506153.640	1.138		54.117	54.117	0.83	0.89	NO	2535.5
56	36	Total-penta1	339.8597	27.48	126925.758			6.645	6.645	1.58	1.55	NO	1651.9

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	SN
35	Total-tetrafurans	303.9016	24.32	7751.368	0.877	0.340	0.340	0.67	0.77	NO	41.2
35	Total-tetrafurans	303.9016	24.18	0.000	0.877	0.000	0.277	0.60	0.77	YES	38.5
35	Total-tetrafurans	303.9016	24.08	11303.678	0.877	0.495	0.495	0.68	0.77	NO	59.2
35	Total-tetrafurans	303.9016	23.91	3225.419	0.877	0.141	0.141	0.78	0.77	NO	18.8
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.447	0.60	0.77	YES	55.3
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.289	0.64	0.77	YES	31.7
35	Total-tetrafurans	303.9016	23.60	10230.749	0.877	0.448	0.448	0.79	0.77	NO	34.3
35	Total-tetrafurans	303.9016	23.42	30366.834	0.877	1.330	1.330	0.69	0.77	NO	152.1
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.225	0.60	0.77	YES	32.1
35	Total-tetrafurans	303.9016	22.58	4803.862	0.877	0.210	0.210	0.73	0.77	NO	30.0
35	Total-tetrafurans	303.9016	27.50	3507.392	0.877	0.154	0.154	0.75	0.77	NO	17.0
35	Total-tetrafurans	303.9016	26.30	12887.894	0.877	0.565	0.565	0.66	0.77	NO	65.4
35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.163	0.57	0.77	YES	24.3
1	2378-TCDF	303.9016	26.08	11098.493	0.877	0.486	0.486	0.68	0.77	NO	53.7
35	Total-tetrafurans	303.9016	25.88	0.000	0.877	0.000	0.091	0.45	0.77	YES	12.9
35	Total-tetrafurans	303.9016	25.82	0.000	0.877	0.000	0.120	1.10	0.77	YES	20.9
35	Total-tetrafurans	303.9016	25.70	0.000	0.877	0.000	0.013	0.32	0.77	YES	2.4
35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.102	0.58	0.77	YES	13.3
35	Total-tetrafurans	303.9016	25.39	4643.029	0.877	0.203	0.203	0.83	0.77	NO	28.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.331	0.90	0.77	YES	50.8
35	Total-tetrafurans	303.9016	24.97	16692.795	0.877	0.731	0.731	0.69	0.77	NO	82.6
35	Total-tetrafurans	303.9016	24.82	4974.754	0.877	0.218	0.218	0.74	0.77	NO	28.7
35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.391	0.92	0.77	YES	51.9
37	Total-pentafurans	339.8597	30.41	6549.931	0.911	0.345	0.345	1.61	1.55	NO	32.1
2	12378-PeCDF	339.8597	30.21	6955.527	0.896	0.375	0.375	1.38	1.55	NO	29.2
37	Total-pentafurans	339.8597	29.86	14564.367	0.911	0.767	0.767	1.44	1.55	NO	49.0
37	Total-pentafurans	339.8597	29.75	2364.282	0.911	0.125	0.125	1.53	1.55	NO	9.3
37	Total-pentafurans	339.8597	29.63	2156.063	0.911	0.114	0.114	1.56	1.55	NO	7.9
37	Total-pentafurans	339.8597	29.47	0.000	0.911	0.000	0.018	2.63	1.55	YES	3.6
37	Total-pentafurans	339.8597	29.41	0.000	0.911	0.000	0.020	0.43	1.55	YES	3.4
37	Total-pentafurans	339.8597	29.14	26792.330	0.911	1.412	1.412	1.61	1.55	NO	114.7
37	Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	0.758	1.19	1.55	YES	74.7
37	Total-pentafurans	339.8597	28.95	0.000	0.911	0.000	0.444	1.23	1.55	YES	33.3
37	Total-pentafurans	339.8597	28.86	1562.168	0.911	0.082	0.082	1.74	1.55	NO	7.9
37	Total-pentafurans	339.8597	32.58	0.000	0.911	0.000	0.040	0.83	1.55	YES	4.7
3	23478-PeCDF	339.8597	31.56	8043.401	0.926	0.000	0.387	1.31	1.55	YES	31.3
37	Total-pentafurans	339.8597	31.42	7905.837	0.911	0.417	0.417	1.39	1.55	NO	30.7
37	Total-pentafurans	339.8597	31.29	5205.677	0.911	0.274	0.274	1.54	1.55	NO	23.9
37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.103	1.17	1.55	YES	10.2
7	123789-HxCDF	373.8208	37.45	6932.779	0.987	0.425	0.425	1.22	1.24	NO	32.2
5	234678-HxCDF	373.8208	36.32	20802.517	1.037	1.279	1.279	1.17	1.24	NO	81.3
38	Total-hexafurans	373.8208	35.75	1348.974	1.032	0.079	0.079	1.19	1.24	NO	9.5
6	123678-HxCDF	373.8208	35.38	14686.063	1.035	0.826	0.826	1.09	1.24	NO	80.4
4	123478-HxCDF	373.8208	35.24	16954.398	1.068	0.957	0.957	1.24	1.24	NO	101.0
38	Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.225	1.03	1.24	YES	23.1
38	Total-hexafurans	373.8208	34.58	173253.625	1.032	10.177	10.177	1.17	1.24	NO	931.5
38	Total-hexafurans	373.8208	34.27	3020.973	1.032	0.177	0.177	1.23	1.24	NO	20.0
38	Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.040	0.73	1.24	YES	7.2
38	Total-hexafurans	373.8208	33.72	143771.632	1.032	8.445	8.445	1.13	1.24	NO	790.3

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
50	38	Total-hexafurans	373.8208	33.51	52089.135	1.032	3.060	3.060	1.17	1.24	NO	299.2
51	9	1234789-HpCDF	407.7818	42.22	12154.737	1.215	0.994	0.994	0.90	1.05	NO	38.4
52	39	Total-heptafurans	407.7818	40.32	487639.266	1.223	34.999	34.999	0.96	1.05	NO	1833.4
53	39	Total-heptafurans	407.7818	40.03	7927.256	1.223	0.569	0.569	1.06	1.05	NO	21.7
54	8	1234678-HpCDF	407.7818	39.53	246647.164	1.232	15.751	15.751	0.98	1.05	NO	951.7
55	10	OCDF	441.7428	47.54	506153.640	1.138	54.117	54.117	0.83	0.89	NO	2535.5
56	36	Total-penta1	339.8597	27.48	126925.758		6.645	6.645	1.58	1.55	NO	1651.9
57	35	Total-tetrafurans	303.9016	24.32	7751.368	0.877	0.340	0.340	0.67	0.77	NO	41.2
58	35	Total-tetrafurans	303.9016	24.18	0.000	0.877	0.000	0.277	0.60	0.77	YES	38.5
59	35	Total-tetrafurans	303.9016	24.08	11303.678	0.877	0.495	0.495	0.68	0.77	NO	59.2
60	35	Total-tetrafurans	303.9016	23.91	3225.419	0.877	0.141	0.141	0.78	0.77	NO	18.8
61	35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.447	0.60	0.77	YES	55.3
62	35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.289	0.64	0.77	YES	31.7
63	35	Total-tetrafurans	303.9016	23.60	10230.749	0.877	0.448	0.448	0.79	0.77	NO	34.3
64	35	Total-tetrafurans	303.9016	23.42	30366.834	0.877	1.330	1.330	0.69	0.77	NO	152.1
65	35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.225	0.60	0.77	YES	32.1
66	35	Total-tetrafurans	303.9016	22.58	4803.862	0.877	0.210	0.210	0.73	0.77	NO	30.0
67	35	Total-tetrafurans	303.9016	27.50	3507.392	0.877	0.154	0.154	0.75	0.77	NO	17.0
68	35	Total-tetrafurans	303.9016	26.30	12887.894	0.877	0.565	0.565	0.66	0.77	NO	65.4
69	35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.163	0.57	0.77	YES	24.3
70	1	2378-TCDF	303.9016	26.08	11098.493	0.877	0.486	0.486	0.68	0.77	NO	53.7
71	35	Total-tetrafurans	303.9016	25.88	0.000	0.877	0.000	0.091	0.45	0.77	YES	12.9
72	35	Total-tetrafurans	303.9016	25.82	0.000	0.877	0.000	0.120	1.10	0.77	YES	20.9
73	35	Total-tetrafurans	303.9016	25.70	0.000	0.877	0.000	0.013	0.32	0.77	YES	2.4
74	35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.102	0.58	0.77	YES	13.3
75	35	Total-tetrafurans	303.9016	25.39	4643.029	0.877	0.203	0.203	0.83	0.77	NO	28.9
76	35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.331	0.90	0.77	YES	50.8
77	35	Total-tetrafurans	303.9016	24.97	16692.795	0.877	0.731	0.731	0.69	0.77	NO	82.6
78	35	Total-tetrafurans	303.9016	24.82	4974.754	0.877	0.218	0.218	0.74	0.77	NO	28.7
79	35	Total-tetrafurans	303.9016	24.75	0.000	0.877	0.000	0.391	0.92	0.77	YES	51.9
80	37	Total-pentafurans	339.8597	30.41	6549.931	0.911	0.345	0.345	1.61	1.55	NO	32.1
81	2	12378-PeCDF	339.8597	30.21	6955.527	0.896	0.375	0.375	1.38	1.55	NO	29.2
82	37	Total-pentafurans	339.8597	29.86	14564.367	0.911	0.767	0.767	1.44	1.55	NO	49.0
83	37	Total-pentafurans	339.8597	29.75	2364.282	0.911	0.125	0.125	1.53	1.55	NO	9.3
84	37	Total-pentafurans	339.8597	29.63	2156.063	0.911	0.114	0.114	1.56	1.55	NO	7.9
85	37	Total-pentafurans	339.8597	29.47	0.000	0.911	0.000	0.018	2.63	1.55	YES	3.6
86	37	Total-pentafurans	339.8597	29.41	0.000	0.911	0.000	0.020	0.43	1.55	YES	3.4
87	37	Total-pentafurans	339.8597	29.14	26792.330	0.911	1.412	1.412	1.61	1.55	NO	114.7
88	37	Total-pentafurans	339.8597	29.06	0.000	0.911	0.000	0.758	1.19	1.55	YES	74.7
89	37	Total-pentafurans	339.8597	28.95	0.000	0.911	0.000	0.444	1.23	1.55	YES	33.3
90	37	Total-pentafurans	339.8597	28.86	1562.168	0.911	0.082	0.082	1.74	1.55	NO	7.9
91	37	Total-pentafurans	339.8597	32.58	0.000	0.911	0.000	0.040	0.83	1.55	YES	4.7
92	3	23478-PeCDF	339.8597	31.56	8043.401	0.926	0.000	0.387	1.31	1.55	YES	31.3
93	37	Total-pentafurans	339.8597	31.42	7905.837	0.911	0.417	0.417	1.39	1.55	NO	30.7
94	37	Total-pentafurans	339.8597	31.29	5205.677	0.911	0.274	0.274	1.54	1.55	NO	23.9
95	37	Total-pentafurans	339.8597	30.53	0.000	0.911	0.000	0.103	1.17	1.55	YES	10.2
96	7	123789-HxCDF	373.8208	37.45	6932.779	0.987	0.425	0.425	1.22	1.24	NO	32.2
97	5	234678-HxCDF	373.8208	36.32	20802.517	1.037	1.279	1.279	1.17	1.24	NO	81.3
98	38	Total-hexafurans	373.8208	35.75	1348.974	1.032	0.079	0.079	1.19	1.24	NO	9.5

VR82: 01075

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	S/N
99	6 123678-HxCDF	373.8208	35.38	14686.063	1.035	0.826	0.826	1.09	1.24	NO	80.4
100	4 123478-HxCDF	373.8208	35.24	16954.398	1.068	0.957	0.957	1.24	1.24	NO	101.0
101	38 Total-hexafurans	373.8208	35.07	0.000	1.032	0.000	0.225	1.03	1.24	YES	23.1
102	38 Total-hexafurans	373.8208	34.58	173253.625	1.032	10.177	10.177	1.17	1.24	NO	931.5
103	38 Total-hexafurans	373.8208	34.27	3020.973	1.032	0.177	0.177	1.23	1.24	NO	20.0
104	38 Total-hexafurans	373.8208	34.00	0.000	1.032	0.000	0.040	0.73	1.24	YES	7.2
105	38 Total-hexafurans	373.8208	33.72	143771.632	1.032	8.445	8.445	1.13	1.24	NO	790.3
106	38 Total-hexafurans	373.8208	33.51	52089.135	1.032	3.060	3.060	1.17	1.24	NO	299.2
107	9 1234789-HpCDF	407.7818	42.22	12154.737	1.215	0.994	0.994	0.90	1.05	NO	38.4
108	39 Total-heptafurans	407.7818	40.32	487639.266	1.223	34.999	34.999	0.96	1.05	NO	1833.4
109	39 Total-heptafurans	407.7818	40.03	7927.256	1.223	0.569	0.569	1.06	1.05	NO	21.7
110	8 1234678-HpCDF	407.7818	39.53	246647.164	1.232	15.751	15.751	0.98	1.05	NO	951.7
111	10 OCDF	441.7428	47.54	506153.640	1.138	54.117	54.117	0.83	0.89	NO	2535.5
112	36 Total-penta1	339.8597	27.48	126925.758		6.645	6.645	1.58	1.55	NO	1651.9

VR82: 01076

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

PFK1

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	Y st R.	S/N
1	48 FUNCTION1 PFK	330.9792	22.07	0.000							0.4
2	48 FUNCTION1 PFK	330.9792	21.92	0.000							0.9
3	48 FUNCTION1 PFK	330.9792	21.83	0.000							0.7
4	48 FUNCTION1 PFK	330.9792	21.66	0.000							1.6
5	48 FUNCTION1 PFK	330.9792	21.45	0.000							2.5
6	48 FUNCTION1 PFK	330.9792	21.34	0.000							1.1
7	48 FUNCTION1 PFK	330.9792	21.25	0.000							2.1
8	48 FUNCTION1 PFK	330.9792	21.16	0.000							1.3
9	48 FUNCTION1 PFK	330.9792	25.82	0.000							2.7
10	48 FUNCTION1 PFK	330.9792	25.72	0.000							1.3
11	48 FUNCTION1 PFK	330.9792	24.75	0.000							0.6
12	48 FUNCTION1 PFK	330.9792	24.52	0.000							1.5
13	48 FUNCTION1 PFK	330.9792	24.34	0.000							0.6
14	48 FUNCTION1 PFK	330.9792	24.18	0.000							1.4
15	48 FUNCTION1 PFK	330.9792	24.09	0.000							2.1
16	48 FUNCTION1 PFK	330.9792	23.37	0.000							1.0
17	48 FUNCTION1 PFK	330.9792	23.21	0.000							0.9
18	48 FUNCTION1 PFK	330.9792	22.96	0.000							1.5
19	48 FUNCTION1 PFK	330.9792	22.79	0.000							0.8
20	48 FUNCTION1 PFK	330.9792	22.70	0.000							2.3
21	48 FUNCTION1 PFK	330.9792	22.43	0.000							1.1
22	48 FUNCTION1 PFK	330.9792	22.34	0.000							0.7
23	48 FUNCTION1 PFK	330.9792	22.24	0.000							1.8
24	48 FUNCTION1 PFK	330.9792	22.15	0.000							1.8
25	48 FUNCTION1 PFK	330.9792	28.10	0.000							2.4
26	48 FUNCTION1 PFK	330.9792	28.02	0.000							1.6
27	48 FUNCTION1 PFK	330.9792	27.96	0.000							1.7
28	48 FUNCTION1 PFK	330.9792	27.89	0.000							0.6
29	48 FUNCTION1 PFK	330.9792	27.83	0.000							0.4
30	48 FUNCTION1 PFK	330.9792	27.50	0.000							0.8
31	48 FUNCTION1 PFK	330.9792	27.06	0.000							0.5
32	48 FUNCTION1 PFK	330.9792	27.00	0.000							0.8
33	48 FUNCTION1 PFK	330.9792	26.84	0.000							0.9
34	48 FUNCTION1 PFK	330.9792	26.72	0.000							1.2
35	48 FUNCTION1 PFK	330.9792	26.26	0.000							2.4
36	48 FUNCTION1 PFK	330.9792	26.11	0.000							3.3
37	48 FUNCTION1 PFK	330.9792	26.02	0.000							2.2
38	48 FUNCTION1 PFK	330.9792	25.91	0.000							1.8

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
49	FUNCTION2 PFK	366.9792	28.41	0.000		0.000					4.7
49	FUNCTION2 PFK	366.9792	33.03	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	32.98	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	32.73	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	32.63	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	32.38	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	32.32	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	31.94	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	31.57	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.81	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	30.35	0.000		0.000					2.0
49	FUNCTION2 PFK	366.9792	29.31	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	28.97	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	28.87	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	28.84	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	28.60	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	28.47	0.000		0.000					2.4

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	FUNCTION3 PFK	380.9760	37.36	0.000		0.000					6.2

PFK4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
51	FUNCTION4 PFK	430.9728	44.30	0.000							1.6
51	FUNCTION4 PFK	430.9728	43.35	0.000							1.3
51	FUNCTION4 PFK	430.9728	43.05	0.000							1.7
51	FUNCTION4 PFK	430.9728	42.98	0.000							1.7
51	FUNCTION4 PFK	430.9728	42.69	0.000							1.6
51	FUNCTION4 PFK	430.9728	42.20	0.000							1.5
51	FUNCTION4 PFK	430.9728	41.72	0.000							0.5
51	FUNCTION4 PFK	430.9728	41.46	0.000							0.7
51	FUNCTION4 PFK	430.9728	40.87	0.000							0.5
51	FUNCTION4 PFK	430.9728	40.64	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.52	0.000							2.0
51	FUNCTION4 PFK	430.9728	39.31	0.000							0.8
51	FUNCTION4 PFK	430.9728	38.84	0.000							1.7
51	FUNCTION4 PFK	430.9728	44.98	0.000							1.0
51	FUNCTION4 PFK	430.9728	44.80	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.65	0.000							1.4
51	FUNCTION4 PFK	430.9728	44.60	0.000							2.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
52	FUNCTION5 PFK	480.9696	46.03	0.000							0.3
52	FUNCTION5 PFK	480.9696	45.73	0.000							0.6
52	FUNCTION5 PFK	480.9696	45.52	0.000							2.3
52	FUNCTION5 PFK	480.9696	45.48	0.000							2.8
52	FUNCTION5 PFK	480.9696	45.44	0.000							3.0
52	FUNCTION5 PFK	480.9696	45.40	0.000							2.4
52	FUNCTION5 PFK	480.9696	45.36	0.000							2.9
52	FUNCTION5 PFK	480.9696	45.32	0.000							2.2
52	FUNCTION5 PFK	480.9696	45.24	0.000							2.3
52	FUNCTION5 PFK	480.9696	45.16	0.000							0.8
52	FUNCTION5 PFK	480.9696	45.07	0.000							0.5
52	FUNCTION5 PFK	480.9696	47.58	0.000							1.4
52	FUNCTION5 PFK	480.9696	47.54	0.000							1.5
52	FUNCTION5 PFK	480.9696	47.47	0.000							2.1
52	FUNCTION5 PFK	480.9696	47.40	0.000							2.0
52	FUNCTION5 PFK	480.9696	47.28	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.25	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.06	0.000							1.5
52	FUNCTION5 PFK	480.9696	47.04	0.000							1.4
52	FUNCTION5 PFK	480.9696	47.00	0.000							1.9
52	FUNCTION5 PFK	480.9696	46.91	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.79	0.000							0.7
52	FUNCTION5 PFK	480.9696	46.56	0.000							1.0
52	FUNCTION5 PFK	480.9696	46.51	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.27	0.000							1.4
52	FUNCTION5 PFK	480.9696	46.19	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.17	0.000							0.4
52	FUNCTION5 PFK	480.9696	48.94	0.000							0.7
52	FUNCTION5 PFK	480.9696	48.80	0.000							0.8
52	FUNCTION5 PFK	480.9696	48.63	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.58	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.54	0.000							1.4
52	FUNCTION5 PFK	480.9696	48.50	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.39	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.35	0.000							0.8
52	FUNCTION5 PFK	480.9696	48.19	0.000							1.4
52	FUNCTION5 PFK	480.9696	48.14	0.000							0.8
52	FUNCTION5 PFK	480.9696	48.07	0.000							1.2
52	FUNCTION5 PFK	480.9696	47.95	0.000							0.9
52	FUNCTION5 PFK	480.9696	47.92	0.000							1.5
52	FUNCTION5 PFK	480.9696	47.86	0.000							0.6

ETHERS1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
53	FUNCTION1 HXCD...	375.8364	23.90	0.000		0.000					6.2
53	FUNCTION1 HXCD...	375.8364	23.94	0.000		0.000					10.5

VR82: 01079

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.99	0.000		0.000					2.1
2	54 FUNCTION1 HPCD...	409.7974	27.81	0.000		0.000					1.6
3	54 FUNCTION1 HPCD...	409.7974	27.06	0.000		0.000					2.0
4	54 FUNCTION1 HPCD...	409.7974	25.82	0.000		0.000					1.4
5	54 FUNCTION1 HPCD...	409.7974	24.61	0.000		0.000					1.9
6	54 FUNCTION1 HPCD...	409.7974	23.87	0.000		0.000					1.6
7	54 FUNCTION1 HPCD...	409.7974	23.36	0.000		0.000					2.6
8	54 FUNCTION1 HPCD...	409.7974	23.10	0.000		0.000					3.5
9	54 FUNCTION1 HPCD...	409.7974	22.88	0.000		0.000					1.9
10	54 FUNCTION1 HPCD...	409.7974	22.61	0.000		0.000					1.6
11	54 FUNCTION1 HPCD...	409.7974	22.18	0.000		0.000					1.4

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.28	0.000		0.000					2.1
2	55 FUNCTION2 HPCD...	409.7974	28.47	0.000		0.000					3.8
3	55 FUNCTION2 HPCD...	409.7974	32.88	0.000		0.000					2.0
4	55 FUNCTION2 HPCD...	409.7974	32.57	0.000		0.000					2.5
5	55 FUNCTION2 HPCD...	409.7974	32.17	0.000		0.000					2.8
6	55 FUNCTION2 HPCD...	409.7974	31.26	0.000		0.000					2.2
7	55 FUNCTION2 HPCD...	409.7974	31.10	0.000		0.000					4.0
8	55 FUNCTION2 HPCD...	409.7974	29.98	0.000		0.000					3.5
9	55 FUNCTION2 HPCD...	409.7974	29.84	0.000		0.000					2.2

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.48	0.000		0.000					2.6
2	57 FUNCTION4 NCDPE	479.7165	39.12	0.000		0.000					621.7

ETHERS6

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

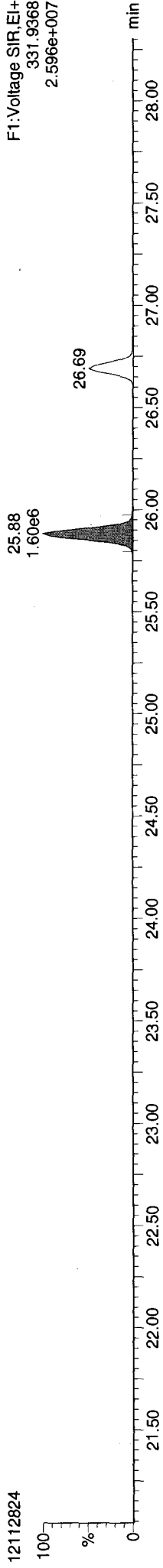
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

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Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

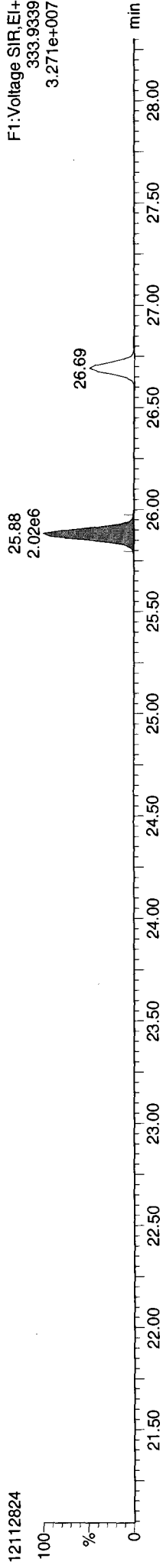
13C-1234-TCDD

12112824



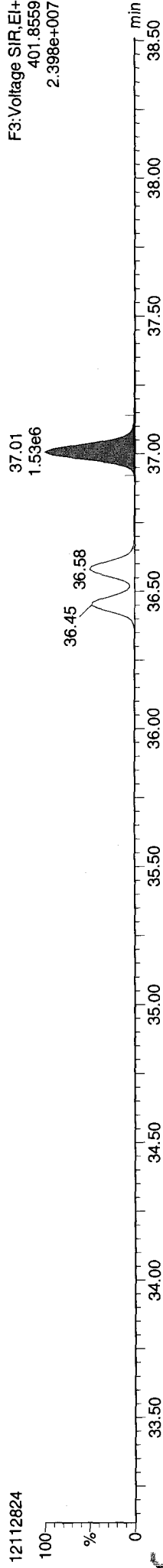
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12112824



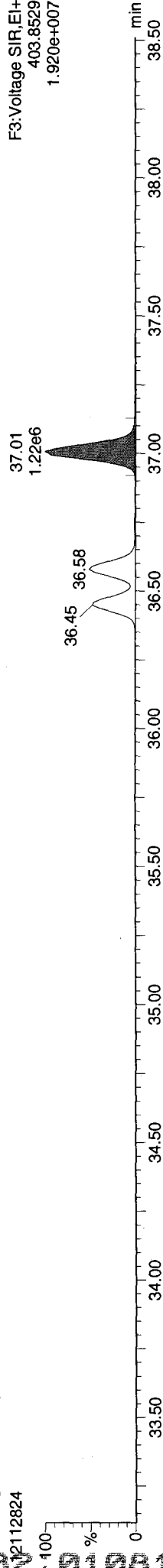
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12112824



13C-123789-HxCDD

12112824



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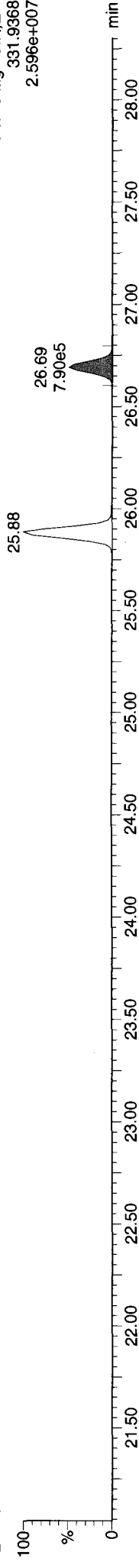
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Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

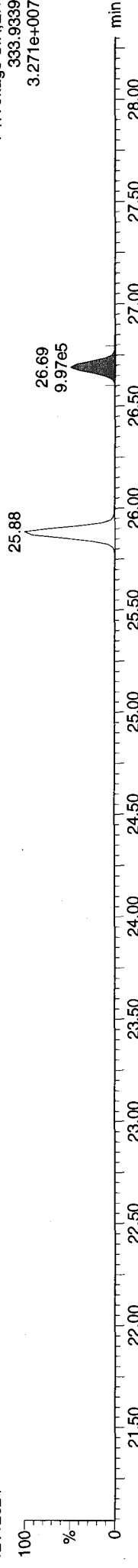
13C-2378-TCDD

12112824



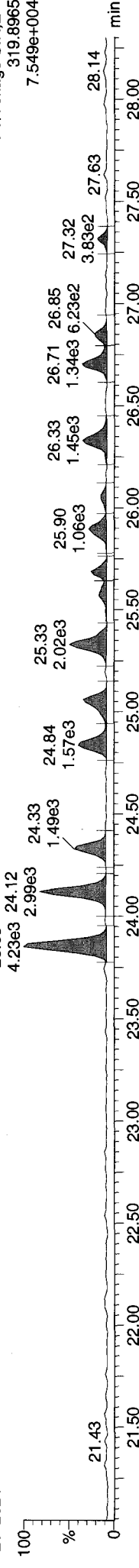
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12112824



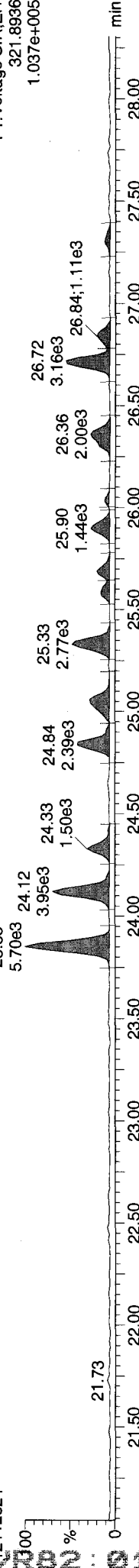
Total-tetradoxins

12112824



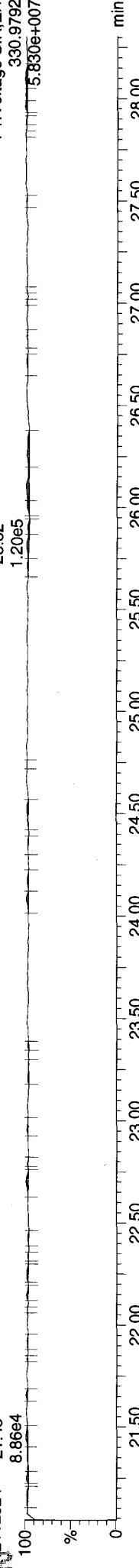
Total-tetradoxins

12112824



FUNCTION1 PFK

12112824



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

12112824

100%
0%

F1: Voltage SIR, EI+
315.9419
1.769e+007

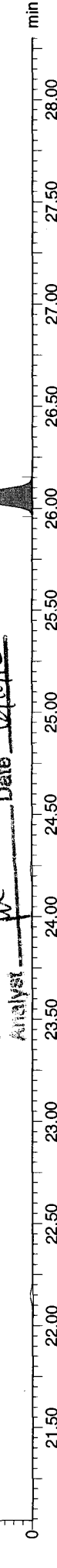


13C-2378-TCDF

12112824

100%
0%

F1: Voltage SIR, EI+
317.9389
2.288e+007



1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: pk Date: 12/11/12

Total-tetrafurans

12112824

100%
0%

F1: Voltage SIR, EI+
303.9016
1.931e+005



Total-tetrafurans

12112824

100%
0%

F1: Voltage SIR, EI+
305.8987
2.979e+005

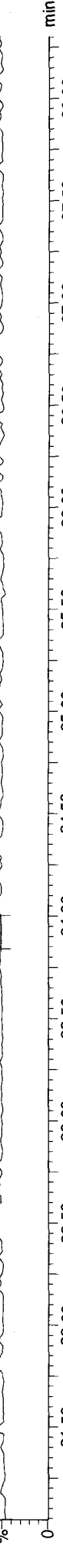


FUNCTION1 HXCDFE

12112824

100%
0%

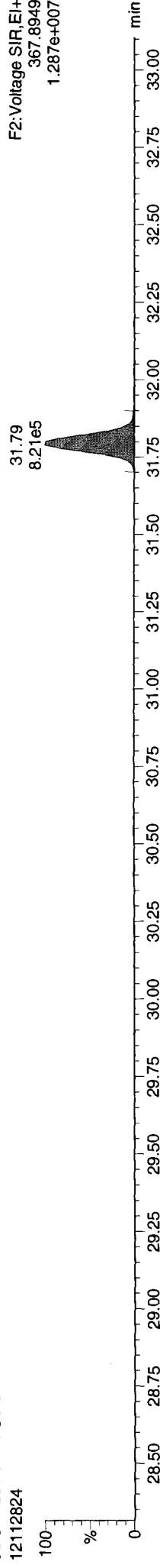
F1: Voltage SIR, EI+
375.8364
1.123e+004



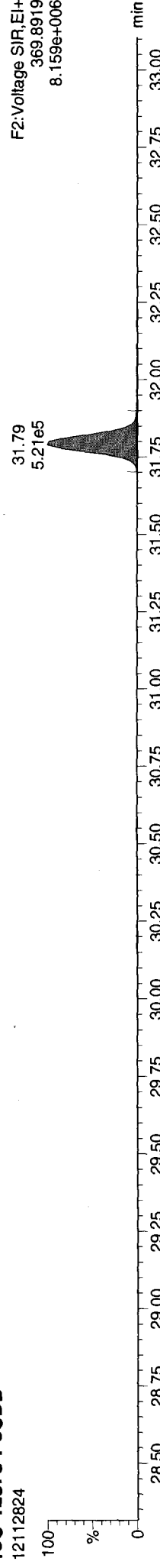
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

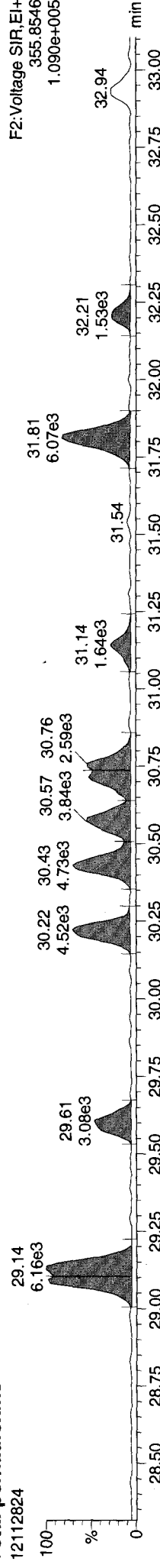
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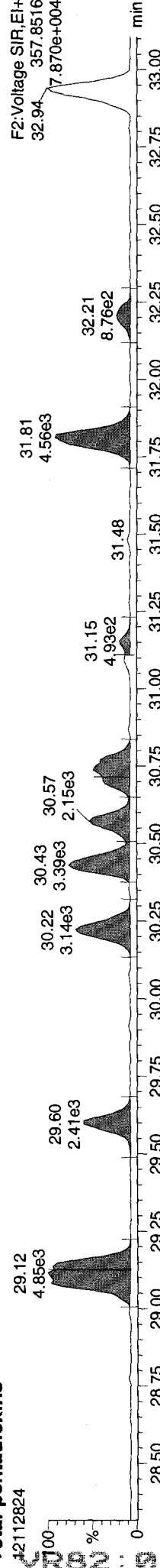
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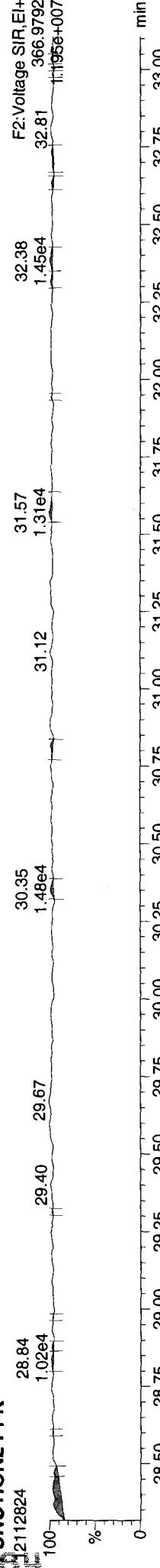
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



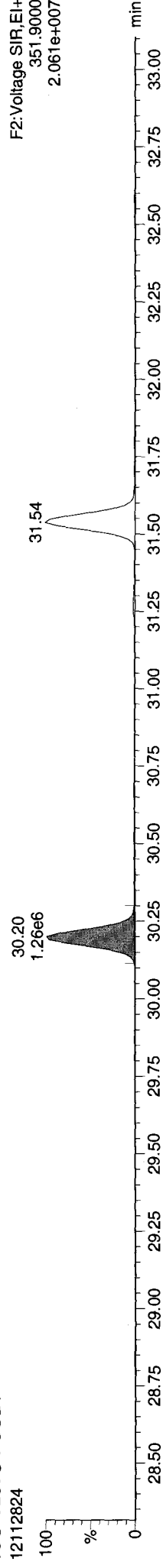
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

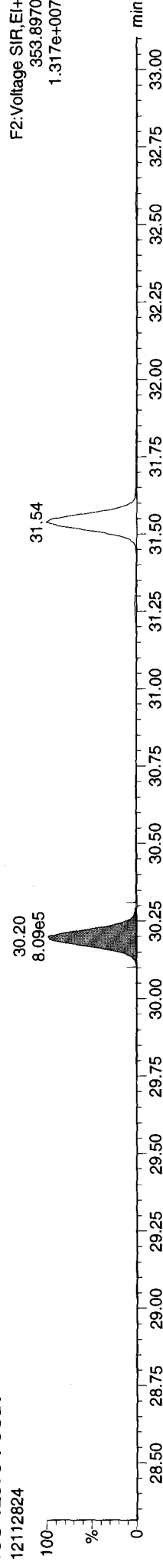
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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

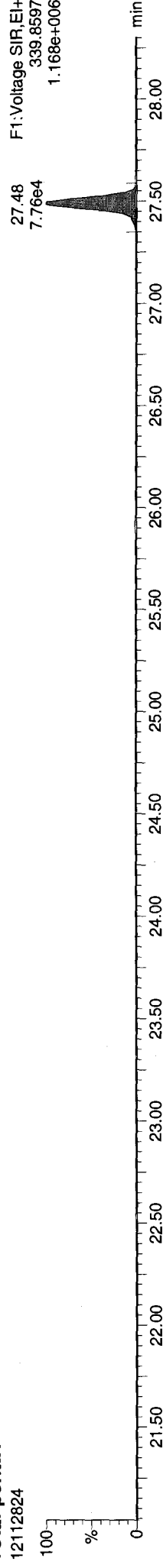
13C-12378-PeCDF



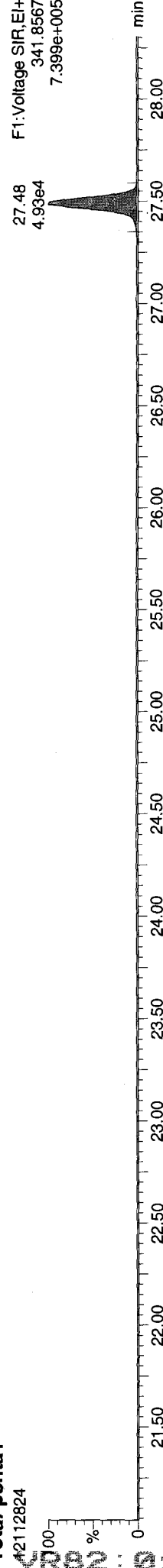
13C-12378-PeCDF



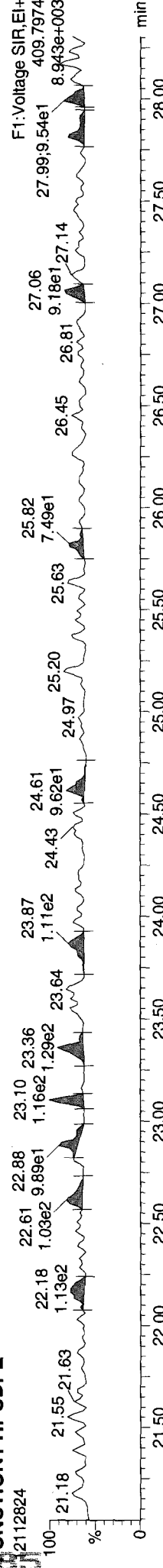
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

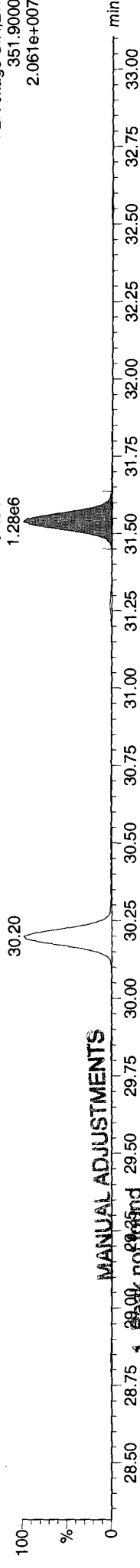
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Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

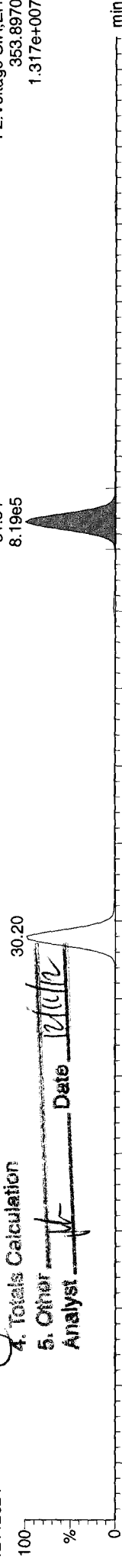
13C-23478-PeCDF

12112824



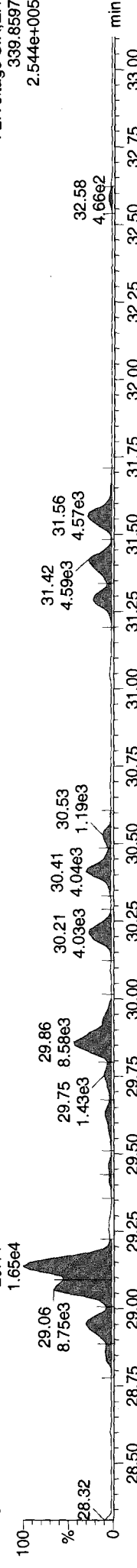
13C-23478-PeCDF

12112824



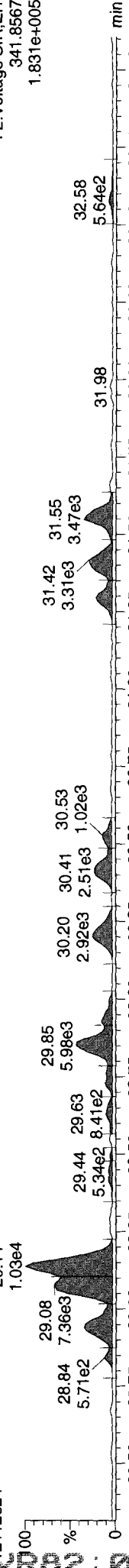
Total-pentafurans

12112824



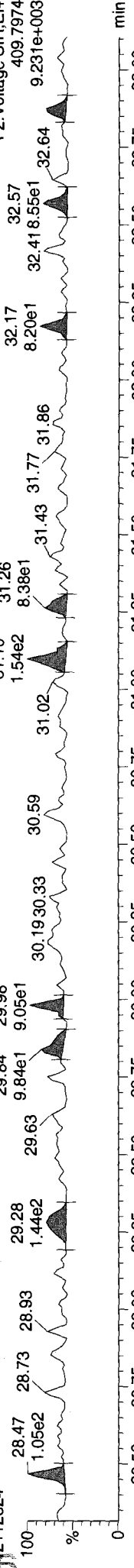
Total-pentafurans

12112824



FUNCTION2 HPCDPE

12112824

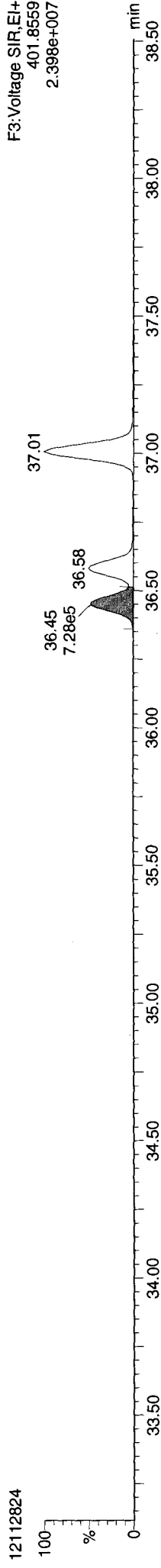


Quantify Sample Report MassLynx 4.1 SCN 714

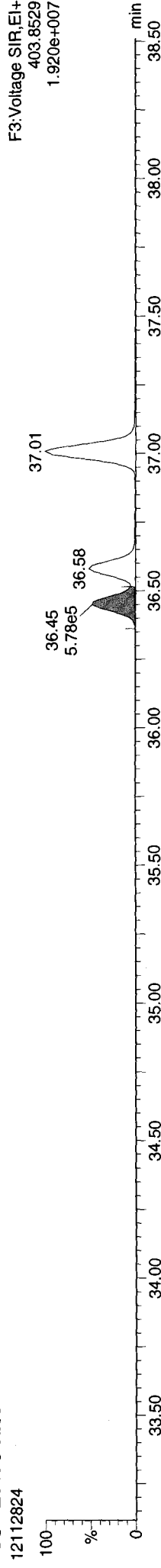
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

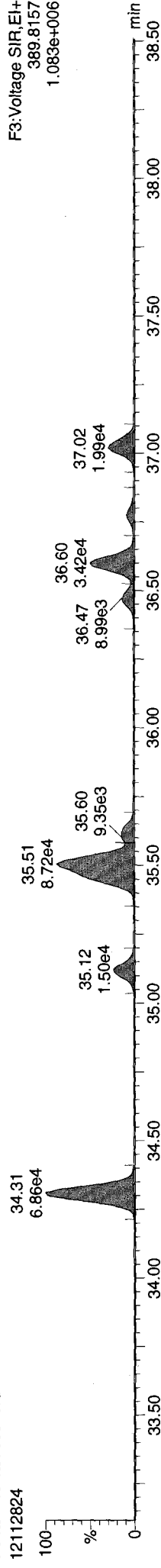
13C-123478-HxCDD



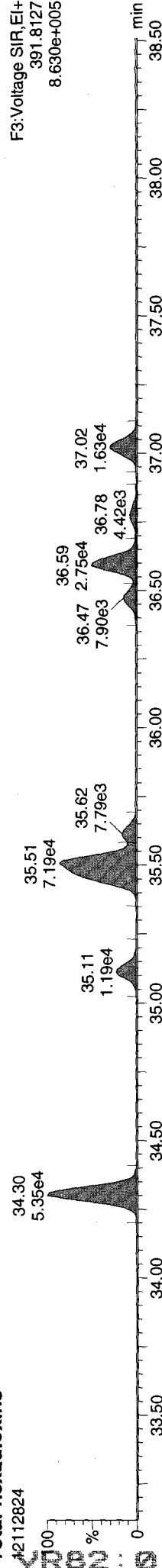
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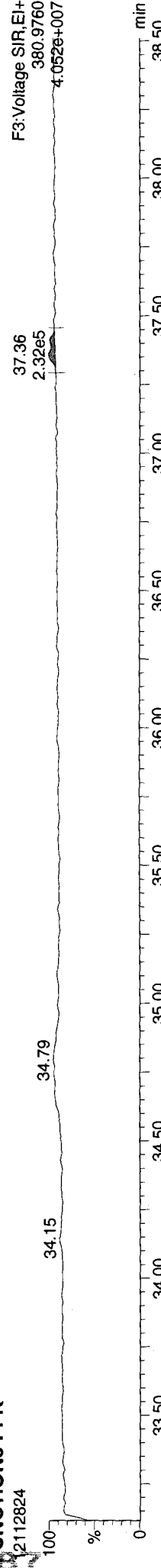
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

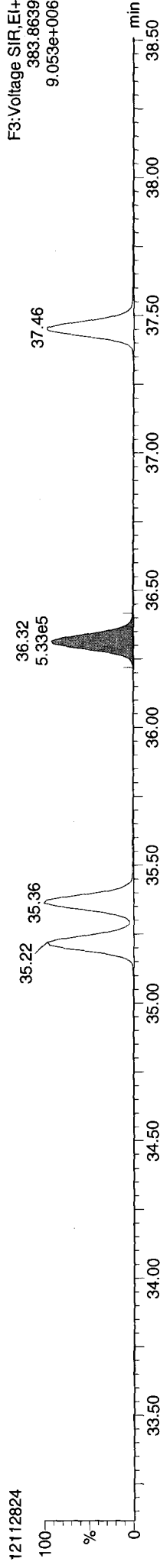


Quantify Sample Report MassLynx 4.1 SCN 714

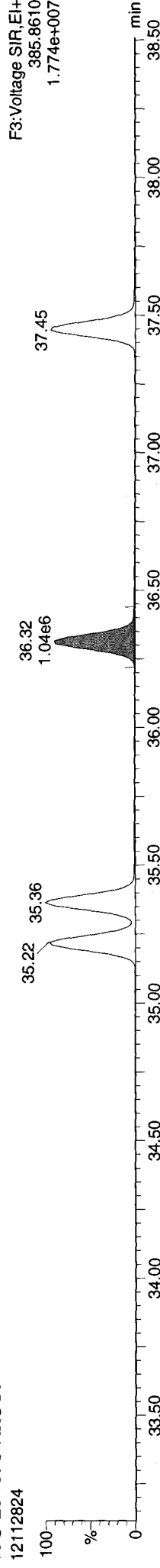
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Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

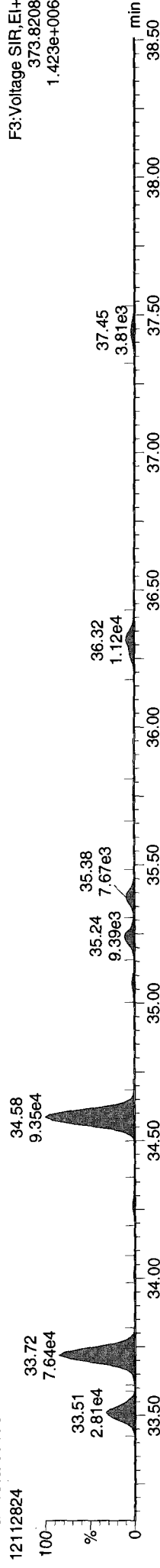
13C-234678-HxCDF



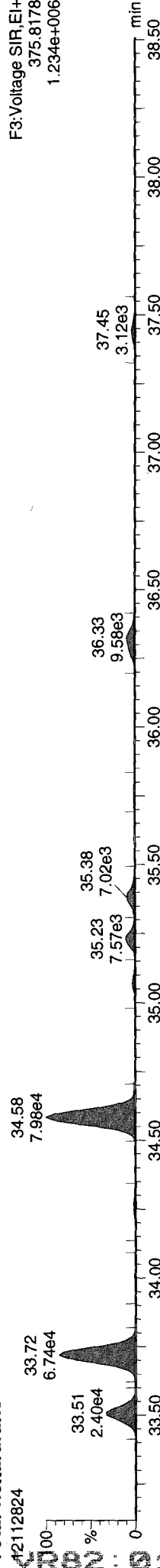
13C-234678-HxCDF



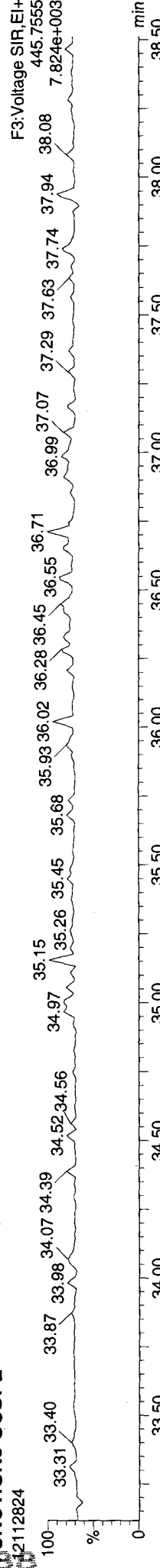
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE

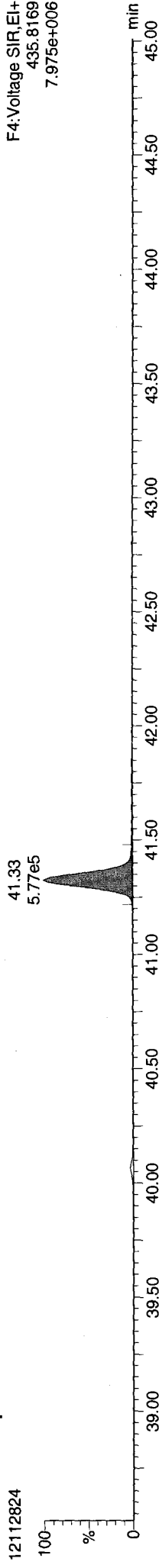


Quantify Sample Report MassLynx 4.1 SCN 714

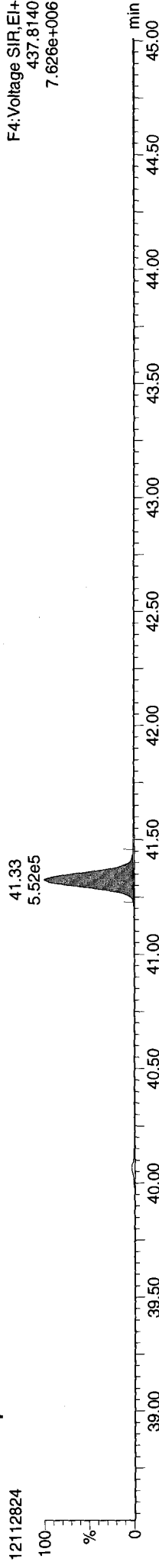
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

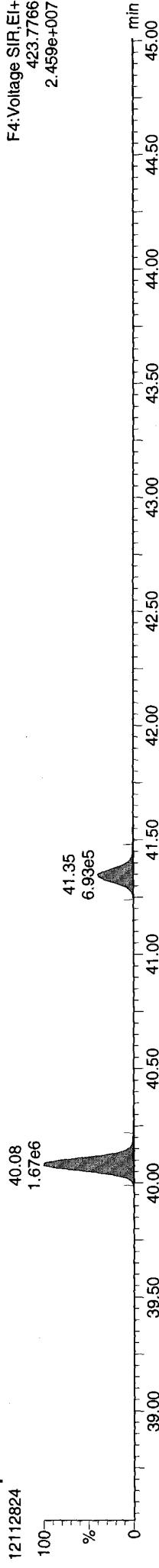
13C-1234678-HpCDD



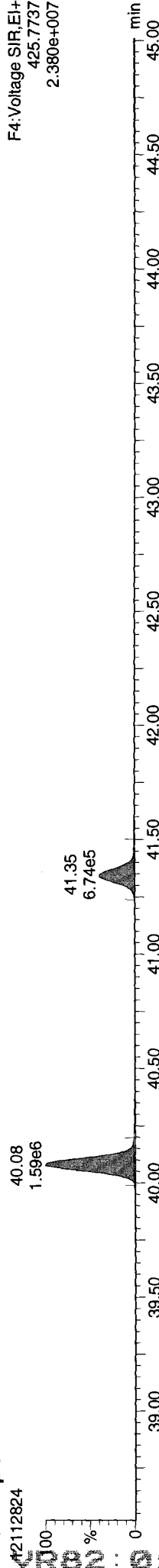
13C-1234678-HpCDD



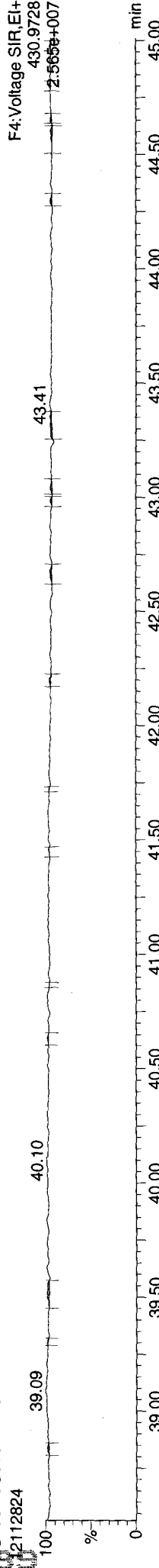
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

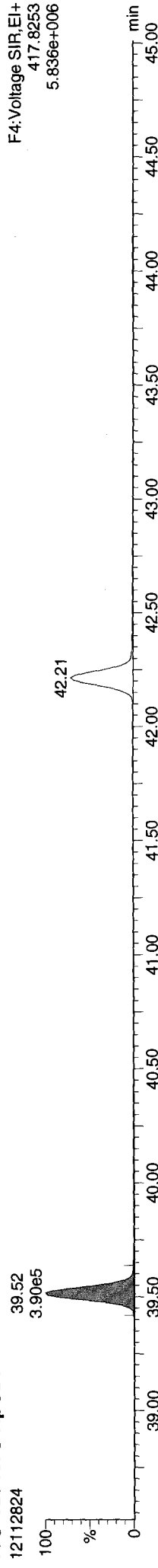


Quantify Sample Report MassLynx 4.1 SCN 714

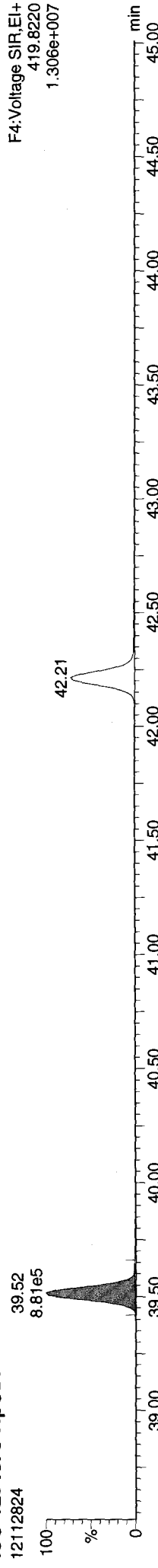
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

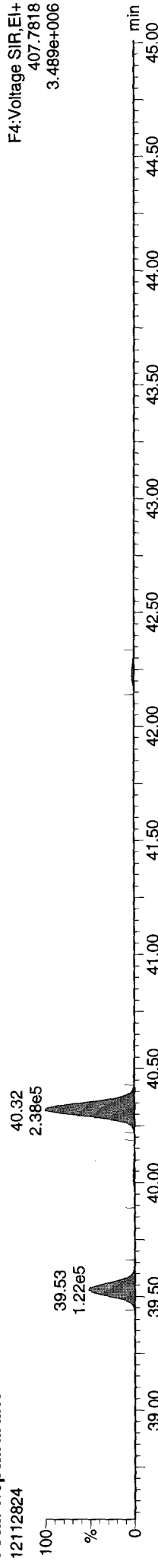
13C-1234678-HpCDF



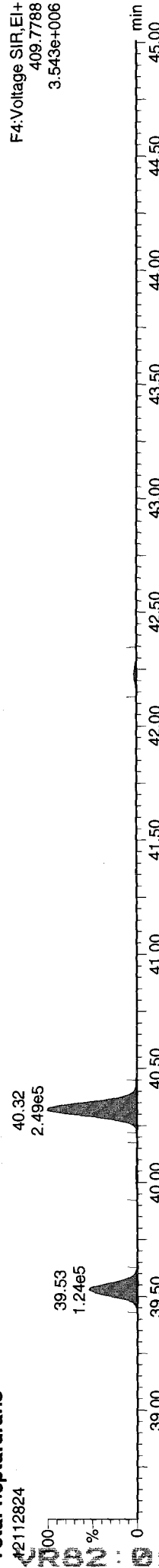
13C-1234678-HpCDF



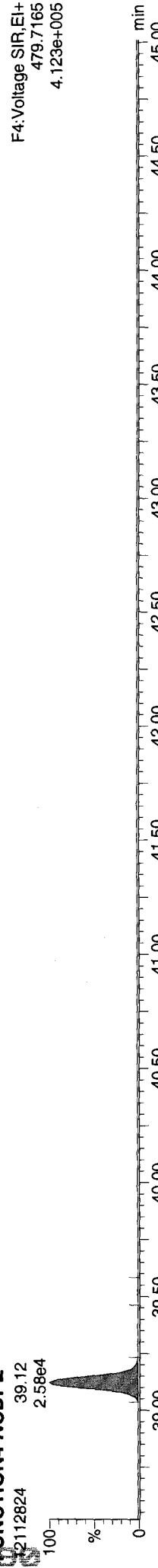
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

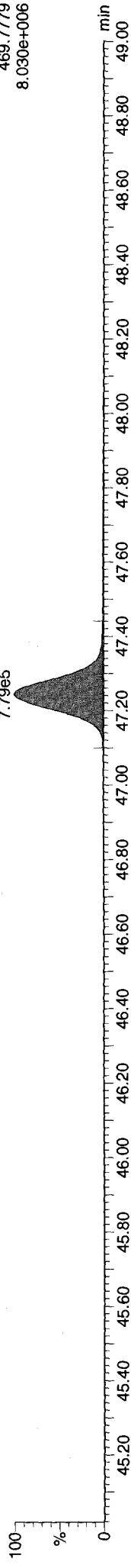
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112824

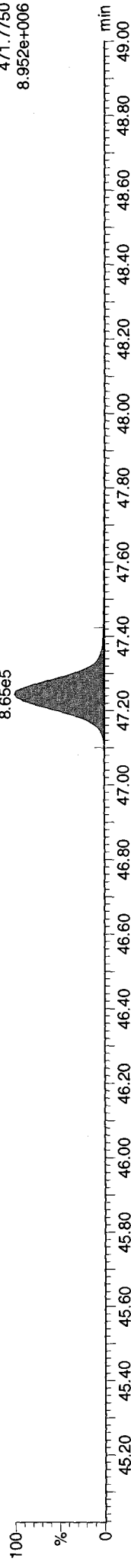
F5: Voltage SIR.EI+
469.7779
8.030e+006



13C-OCDD

12112824

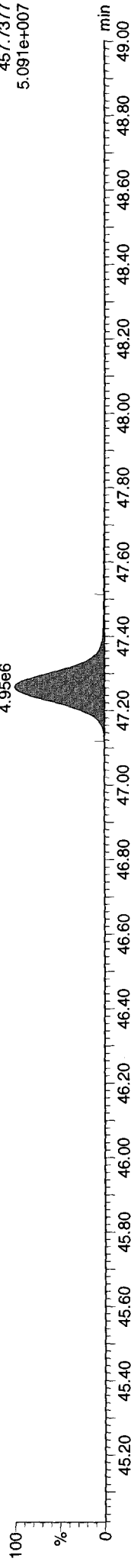
F5: Voltage SIR.EI+
471.7750
8.952e+006



OCDD

12112824

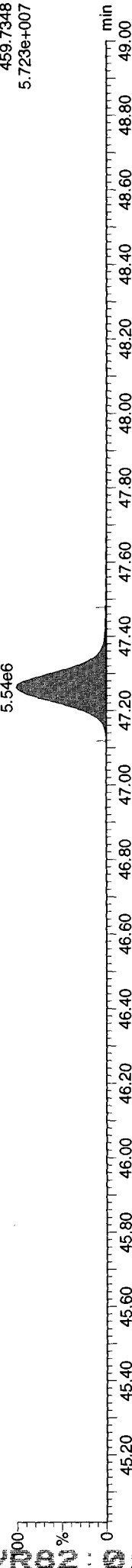
F5: Voltage SIR.EI+
457.7377
5.091e+007



OCDD

12112824

F5: Voltage SIR.EI+
459.7348
5.723e+007



FUNCTION5 PFK

12112824

F5: Voltage SIR.EI+
480.9696
1.542e+007

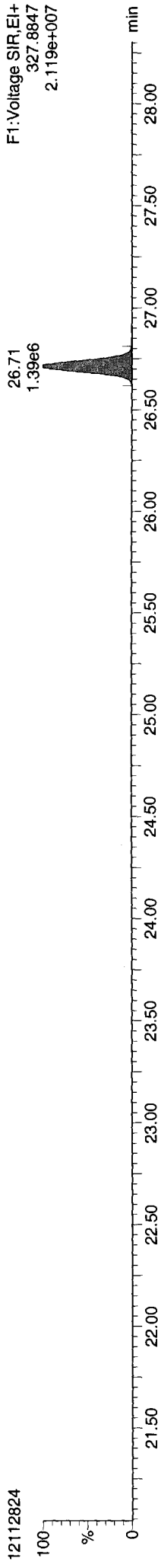


Quantify Sample Report MassLynx 4.1 SCN 714

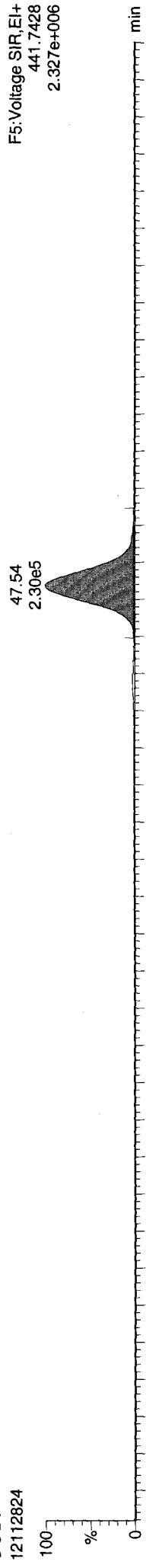
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:29 Pacific Standard Time

Name: 12112824, Date: 29-Nov-2012, Time: 06:15:42, ID: VR82E, Conditions: AUTOSPEC01, User: pk

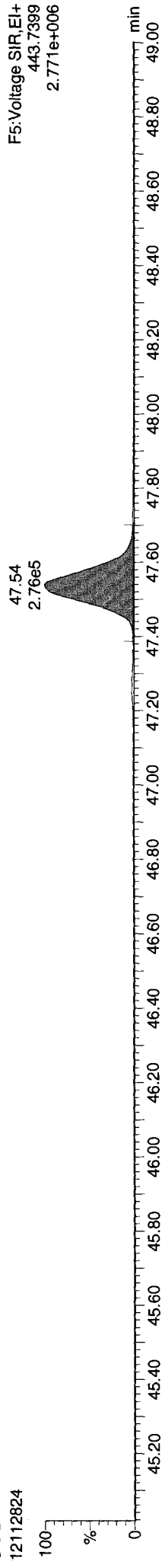
37CL-2378-TCDD



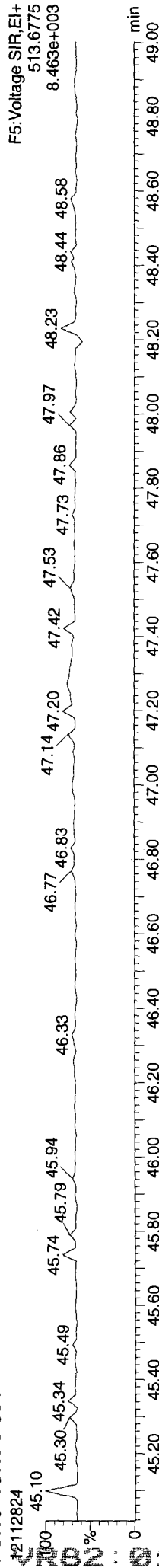
OCDF



OCDF



FUNCTION5 DCDPE



12112824

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

12/11/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion/Area	Ion/Area	RRF	Ratio	Pred/R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPSY	EMPC
2378-TCDF	26.078	1.001	4.59e3	6.89e3	0.877	0.666	0.770	45.1	1740	1491	7.85e4	1.12e5	NO	0.323
12378-PeCDF	30.223	1.001	3.97e3	2.46e3	0.896	1.610	1.550	56.4	1185	2454	6.68e4	4.04e4	NO	0.222
23478-PeCDF	31.561	1.000	3.78e3	3.02e3	0.926	1.254	1.550	53.5	1185	2454	6.34e4	5.94e4	YES	0.227
123478-HxCDF	35.244	1.001	8.58e3	7.73e3	1.068	1.110	1.240	45.9	2996	1656	1.37e5	1.08e5	NO	0.603
234678-HxCDF	36.319	1.000	1.02e4	8.15e3	1.037	1.256	1.240	34.0	2996	1656	1.02e5	8.51e4	NO	0.702
123678-HxCDF	35.398	1.001	6.96e3	6.50e3	1.035	1.071	1.240	37.9	2996	1656	1.13e5	1.05e5	NO	0.497
123789-HxCDF	37.448	1.000	2.75e3	2.05e3	0.987	1.340	1.240	12.5	2996	1656	3.73e4	2.53e4	NO	0.194
1234678-HpCDF	39.542	1.001	9.21e4	9.59e4	1.232	0.961	1.050	966.8	1483	1317	1.43e6	1.44e6	NO	7.321
1234789-HpCDF	42.238	1.000	5.43e3	5.48e3	1.215	0.991	1.050	54.1	1483	1317	8.03e4	7.98e4	NO	0.533
OCDF	47.558	1.006	1.40e5	1.65e5	1.138	0.848	0.890	1344.6	999	1771	1.34e6	1.61e6	NO	20.550
2378-TCDD	26.721	1.001	1.26e3	3.16e3	1.049	0.399	0.770	20.9	903	922	1.89e4	4.83e4	YES	0.154
12378-PeCDD	31.813	1.000	7.06e3	5.15e3	0.998	1.371	1.550	76.7	1466	1199	1.13e5	7.38e4	NO	0.593
123478-HxCDD	36.472	1.000	8.14e3	6.62e3	0.971	1.229	1.240	97.1	1415	1092	1.37e5	1.06e5	NO	0.715
123678-HxCDD	36.604	1.001	2.54e4	2.00e4	0.918	1.270	1.240	276.4	1415	1092	3.91e5	3.12e5	NO	2.203
123789-HxCDD	37.020	1.012	1.57e4	1.34e4	0.932	1.168	1.240	158.0	1415	1092	2.24e5	2.10e5	NO	1.431
1234678-HpCDD	41.350	1.000	4.17e5	3.96e5	1.017	1.053	1.050	1762.4	3221	3433	5.68e6	5.48e6	NO	42.987
OCDD	47.280	1.000	2.03e6	2.27e6	1.008	0.894	0.890	6792.9	3050	3708	2.07e7	2.32e7	NO	327.712
13C-2378-TCDF	26.063	1.007	1.77e6	2.23e6	1.473	0.775	0.770	8983.2	3324	1966	2.79e7	3.55e7	NO	71.228
13C-12378-PeCDF	30.201	1.167	1.98e6	1.25e6	1.148	1.582	1.550	7323.2	4272	3818	3.13e7	1.97e7	NO	72.859
13C-23478-PeCDF	31.550	1.219	1.98e6	1.25e6	1.113	1.576	1.550	7505.8	4272	3818	3.21e7	2.02e7	NO	75.118
13C-123478-HxCDF	35.222	0.952	8.61e5	1.67e6	1.209	0.515	0.510	6611.8	2066	4914	1.37e7	2.61e7	NO	70.513
13C-123678-HxCDF	35.376	0.956	9.02e5	1.72e6	1.269	0.524	0.510	6719.1	2066	4914	1.39e7	2.64e7	NO	69.587
13C-234678-HxCDF	36.319	0.981	8.62e5	1.66e6	1.236	0.519	0.510	6596.4	2066	4914	1.36e7	2.60e7	NO	68.813
13C-123789-HxCDF	37.459	1.012	8.65e5	1.64e6	1.107	0.526	0.510	6459.5	2066	4914	1.33e7	2.55e7	NO	76.321
13C-1234678-HpCDF	39.520	1.068	6.37e5	1.45e6	1.051	0.440	0.440	3647.8	2646	2157	9.65e6	2.18e7	NO	66.795
13C-1234789-HpCDF	42.227	1.141	5.22e5	1.16e6	0.815	0.448	0.440	2584.4	2646	2157	6.84e6	1.52e7	NO	69.663
13C-1234-TCDD	25.884	0.000	1.70e6	2.16e6	1.000	0.788	0.770	9204.5	2986	2795	2.75e7	3.48e7	NO	100.000
13C-2378-TCDD	26.706	1.032	1.19e6	1.55e6	0.946	0.765	0.770	6073.5	2986	2795	1.81e7	2.32e7	NO	74.776
13C-12378-PeCDD	31.802	1.229	1.27e6	7.99e5	0.721	1.582	1.550	12914.4	1571	1367	2.03e7	1.28e7	NO	74.103
13C-123478-HxCDD	36.461	0.985	1.19e6	9.39e5	0.991	1.265	1.240	6755.3	2774	4026	1.87e7	1.46e7	NO	72.260
13C-123678-HxCDD	36.582	0.988	1.25e6	9.97e5	1.025	1.250	1.240	6906.7	2774	4026	1.92e7	1.54e7	NO	73.735
13C-1234678-HpCDD	41.328	1.117	9.51e5	9.10e5	0.866	1.044	1.050	4292.4	2989	2909	1.28e7	1.23e7	NO	72.338
13C-OCDD	47.262	1.277	1.22e6	1.38e6	0.769	0.882	0.890	5805.4	2129	2147	1.24e7	1.40e7	NO	113.883

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1 Area	Ion2 Area	RFI	Ratio	Pred R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC 1	EMPC 2	EMPC
34	13C-123789-HxCDD	37.009	0.000	1.65e6	1.32e6	1.000	1.245	9149.3	2774	4026	2.54e7	2.06e7	NO		100.000
35	Total-tetrafurans		6.96e4	0.877					1740		9.92e5				4.670
36	Total-penta1		6.65e4						621		1.01e6				3.718
37	Total-pentafurans		5.90e4	0.911					1185		9.26e5				3.370
38	Total-hexafurans		1.81e5	1.032					2996		2.70e6				12.958
39	Total-heptafurans		2.59e5	1.223					1483		3.93e6				22.014
40	Total-Furans		7.74e5	1.041					1740		1.09e7				67.001
41	Total-tetradiioxins		1.79e4	1.049					903		2.68e5				2.137
42	Total-pentadiioxins		5.00e4	0.998					1466		6.90e5				4.186
43	Total-hexadiioxins		1.79e5	0.940					1415		2.40e6				15.752
44	Total-heptadiioxins		8.12e5	1.017					3221		1.15e7				83.906
45	Total-Dioxins		2.24e7	0.985					903		3.16e8				67.001
46	Total-TEQ		2.32e7						903		3.27e8				137.130
47	37CL-2378-TCDD	26.721	1.032	1.46e6	1.044			10765.8	2182		2.35e7				134.002
48	FUNCTION1 PFK		1.89e6						705340		3.46e7				36.307
49	FUNCTION2 PFK		0.00e0						206463		0.00e0				0.000
50	FUNCTION3 PFK		2.94e5						418311		4.31e6				0.000
51	FUNCTION4 PFK		1.32e6						355680		3.37e7				0.000
52	FUNCTION5 PFK		3.75e5						249188		1.28e7				0.000
53	FUNCTION1 HXCDPE		4.17e2						451		8.66e3				0.000
54	FUNCTION1 HPCDPE		4.30e2						930		7.76e3				0.000
55	FUNCTION2 HPCDPE		1.14e3						1138		2.79e4				0.000
56	FUNCTION3 OCDPE		1.10e2						607		3.27e3				0.000
57	FUNCTION4 NCDPE		4.27e4						718		6.52e5				0.000
58	FUNCTION5 DCDPE		0.00e0						202		0.00e0				0.000

7.437
7.558

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
35	Total-tetrafurans	303.9016	24.75	12205.177	0.877	0.343	0.343	0.81	0.77	NO	42.1
35	Total-tetrafurans	303.9016	24.32	7584.429	0.877	0.213	0.213	0.81	0.77	NO	29.9
35	Total-tetrafurans	303.9016	24.18	6047.799	0.877	0.170	0.170	0.82	0.77	NO	24.4
35	Total-tetrafurans	303.9016	24.08	12109.943	0.877	0.341	0.341	0.67	0.77	NO	43.4
35	Total-tetrafurans	303.9016	23.93	4699.695	0.877	0.132	0.132	0.66	0.77	NO	17.2
35	Total-tetrafurans	303.9016	23.84	11172.430	0.877	0.314	0.314	0.75	0.77	NO	43.0
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.195	0.61	0.77	YES	28.2
35	Total-tetrafurans	303.9016	23.60	11950.089	0.877	0.336	0.336	0.87	0.77	NO	26.6
35	Total-tetrafurans	303.9016	23.43	35262.621	0.877	0.992	0.992	0.68	0.77	NO	121.5
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.156	0.63	0.77	YES	23.5
35	Total-tetrafurans	303.9016	22.58	5818.288	0.877	0.164	0.164	0.70	0.77	NO	18.8
35	Total-tetrafurans	303.9016	27.51	3951.885	0.877	0.111	0.111	0.86	0.77	NO	11.1
35	Total-tetrafurans	303.9016	26.30	13466.621	0.877	0.379	0.379	0.68	0.77	NO	44.6
35	Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.130	1.02	0.77	YES	22.5
1	2378-TCDF	303.9016	26.08	11478.854	0.877	0.323	0.323	0.67	0.77	NO	45.1
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.061	0.46	0.77	YES	10.9
35	Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.091	0.92	0.77	YES	16.3
35	Total-tetrafurans	303.9016	25.57	0.000	0.877	0.000	0.067	0.54	0.77	YES	8.6
35	Total-tetrafurans	303.9016	25.39	4893.838	0.877	0.138	0.138	0.83	0.77	NO	21.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.228	0.94	0.77	YES	40.3
35	Total-tetrafurans	303.9016	24.99	19086.316	0.877	0.537	0.537	0.66	0.77	NO	62.3
35	Total-tetrafurans	303.9016	24.84	6263.811	0.877	0.176	0.176	0.68	0.77	NO	19.2

PP

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
36	Total-penta1	339.8597	27.50	110198.746		3.718	3.718	1.52	1.55	NO	1626.5

PF

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
37	Total-pentafurans	339.8597	29.26	964.039	0.911	0.033	0.033	1.66	1.55	NO	7.5
37	Total-pentafurans	339.8597	29.14	25920.729	0.911	0.880	0.880	1.43	1.55	NO	198.7
37	Total-pentafurans	339.8597	29.07	16951.284	0.911	0.576	0.576	1.39	1.55	NO	151.1
37	Total-pentafurans	339.8597	28.96	9210.106	0.911	0.313	0.313	1.72	1.55	NO	62.7
37	Total-pentafurans	339.8597	28.85	2150.490	0.911	0.073	0.073	1.53	1.55	NO	20.1
3	23478-PeCDF	339.8597	31.56	6795.158	0.926	0.000	0.208	1.25	1.55	YES	53.5
37	Total-pentafurans	339.8597	31.42	6210.909	0.911	0.211	0.211	1.55	1.55	NO	62.4
37	Total-pentafurans	339.8597	31.30	5862.257	0.911	0.199	0.199	1.60	1.55	NO	41.5
37	Total-pentafurans	339.8597	30.54	2546.778	0.911	0.086	0.086	1.43	1.55	NO	20.6
37	Total-pentafurans	339.8597	30.42	7386.479	0.911	0.251	0.251	1.35	1.55	NO	53.7
2	12378-PeCDF	339.8597	30.22	6428.201	0.896	0.222	0.222	1.61	1.55	NO	56.4
37	Total-pentafurans	339.8597	29.94	0.000	0.911	0.000	0.090	1.24	1.55	YES	30.2
37	Total-pentafurans	339.8597	29.86	12987.246	0.911	0.441	0.441	1.35	1.55	NO	91.2
37	Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.053	1.14	1.55	YES	16.7
37	Total-pentafurans	339.8597	29.63	2520.577	0.911	0.086	0.086	1.57	1.55	NO	15.5

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
38	Total-hexafurans	373.8208	34.59	117129.953	1.032	4.458	4.458	1.16	1.24	NO	320.8
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.072	1.95	1.24	YES	8.1
38	Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.014	3.85	1.24	YES	3.8
38	Total-hexafurans	373.8208	33.73	124367.184	1.032	4.734	4.734	1.20	1.24	NO	331.4
38	Total-hexafurans	373.8208	33.51	39145.357	1.032	1.490	1.490	1.24	1.24	NO	118.5
7	123789-HxCDF	373.8208	37.45	4794.164	0.987	0.194	0.194	1.34	1.24	NO	12.5
5	234678-HxCDF	373.8208	36.32	18384.113	1.037	0.702	0.702	1.26	1.24	NO	34.0
6	123678-HxCDF	373.8208	35.40	13467.488	1.035	0.497	0.497	1.07	1.24	NO	37.9
4	123478-HxCDF	373.8208	35.24	16310.785	1.068	0.603	0.603	1.11	1.24	NO	45.9
38	Total-hexafurans	373.8208	35.08	0.000	1.032	0.000	0.193	1.03	1.24	YES	15.1

HPF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
9	1234789-HpCDF	407.7818	42.24	10913.518	1.215	0.533	0.533	0.99	1.05	NO	54.1
39	Total-heptafurans	407.7818	40.33	322037.688	1.223	13.962	13.962	0.97	1.05	NO	1604.2
39	Total-heptafurans	407.7818	40.03	4579.942	1.223	0.199	0.199	1.12	1.05	NO	22.2
8	1234678-HpCDF	407.7818	39.54	188048.321	1.232	7.321	7.321	0.96	1.05	NO	966.8

Quantify Totals Report MassLynx 4.1 SCN 714

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1 st Rat	1 st Rat	1 st R	SN
1	35 Total-tetrafurans	303.9016	24.75	12205.177	0.877	0.343	0.343	0.81	0.77	NO	42.1
2	35 Total-tetrafurans	303.9016	24.32	7584.429	0.877	0.213	0.213	0.81	0.77	NO	29.9
3	35 Total-tetrafurans	303.9016	24.18	6047.799	0.877	0.170	0.170	0.82	0.77	NO	24.4
4	35 Total-tetrafurans	303.9016	24.08	12109.943	0.877	0.341	0.341	0.67	0.77	NO	43.4
5	35 Total-tetrafurans	303.9016	23.93	4699.695	0.877	0.132	0.132	0.66	0.77	NO	17.2
6	35 Total-tetrafurans	303.9016	23.84	11172.430	0.877	0.314	0.314	0.75	0.77	NO	43.0
7	35 Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.195	0.61	0.77	YES	28.2
8	35 Total-tetrafurans	303.9016	23.60	11950.089	0.877	0.336	0.336	0.87	0.77	NO	26.6
9	35 Total-tetrafurans	303.9016	23.43	35262.621	0.877	0.992	0.992	0.68	0.77	NO	121.5
10	35 Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.156	0.63	0.77	YES	23.5
11	35 Total-tetrafurans	303.9016	22.58	5818.288	0.877	0.164	0.164	0.70	0.77	NO	18.8
12	35 Total-tetrafurans	303.9016	27.51	3951.885	0.877	0.111	0.111	0.86	0.77	NO	11.1
13	35 Total-tetrafurans	303.9016	26.30	13466.621	0.877	0.379	0.379	0.68	0.77	NO	44.6
14	35 Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.130	1.02	0.77	YES	22.5
15	1 2378-TCDF	303.9016	26.08	11478.854	0.877	0.323	0.323	0.67	0.77	NO	45.1
16	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.061	0.46	0.77	YES	10.9
17	35 Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.091	0.92	0.77	YES	16.3
18	35 Total-tetrafurans	303.9016	25.57	0.000	0.877	0.000	0.067	0.54	0.77	YES	8.6
19	35 Total-tetrafurans	303.9016	25.39	4893.838	0.877	0.138	0.138	0.83	0.77	NO	21.5
20	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.228	0.94	0.77	YES	40.3
21	35 Total-tetrafurans	303.9016	24.99	19086.316	0.877	0.537	0.537	0.66	0.77	NO	62.3
22	35 Total-tetrafurans	303.9016	24.84	6263.811	0.877	0.176	0.176	0.68	0.77	NO	19.2
23	40 Total-Furans	303.9016	28.26	0.000	1.041	0.000	0.004	0.38	0.77	YES	1.0
24	37 Total-pentafurans	339.8597	29.26	964.039	0.911	0.033	0.033	1.66	1.55	NO	7.5
25	37 Total-pentafurans	339.8597	29.14	25920.729	0.911	0.880	0.880	1.43	1.55	NO	198.7
26	37 Total-pentafurans	339.8597	29.07	16951.284	0.911	0.576	0.576	1.39	1.55	NO	151.1
27	37 Total-pentafurans	339.8597	28.96	9210.106	0.911	0.313	0.313	1.72	1.55	NO	62.7
28	37 Total-pentafurans	339.8597	28.85	2150.490	0.911	0.073	0.073	1.53	1.55	NO	20.1
29	3 23478-PeCDF	339.8597	31.56	6795.158	0.926	0.000	0.208	1.25	1.55	YES	53.5
30	37 Total-pentafurans	339.8597	31.42	6210.909	0.911	0.211	0.211	1.55	1.55	NO	62.4
31	37 Total-pentafurans	339.8597	31.30	5862.257	0.911	0.199	0.199	1.60	1.55	NO	41.5
32	37 Total-pentafurans	339.8597	30.54	2546.778	0.911	0.086	0.086	1.43	1.55	NO	20.6
33	37 Total-pentafurans	339.8597	30.42	7386.479	0.911	0.251	0.251	1.35	1.55	NO	53.7
34	2 12378-PeCDF	339.8597	30.22	6428.201	0.896	0.222	0.222	1.61	1.55	NO	56.4
35	37 Total-pentafurans	339.8597	29.94	0.000	0.911	0.000	0.090	1.24	1.55	YES	30.2
36	37 Total-pentafurans	339.8597	29.86	12987.246	0.911	0.441	0.441	1.35	1.55	NO	91.2
37	37 Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.053	1.14	1.55	YES	16.7
38	37 Total-pentafurans	339.8597	29.63	2520.577	0.911	0.086	0.086	1.57	1.55	NO	15.5
39	38 Total-hexafurans	373.8208	34.59	117129.953	1.032	4.458	4.458	1.16	1.24	NO	320.8
40	38 Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.072	1.95	1.24	YES	8.1
41	38 Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.014	3.85	1.24	YES	3.8
42	38 Total-hexafurans	373.8208	33.73	124367.184	1.032	4.734	4.734	1.20	1.24	NO	331.4
43	38 Total-hexafurans	373.8208	33.51	39145.357	1.032	1.490	1.490	1.24	1.24	NO	118.5
44	7 123789-HxCDF	373.8208	37.45	4794.164	0.987	0.194	0.194	1.34	1.24	NO	12.5
45	5 234678-HxCDF	373.8208	36.32	18384.113	1.037	0.702	0.702	1.26	1.24	NO	34.0
46	6 123678-HxCDF	373.8208	35.40	13467.488	1.035	0.497	0.497	1.07	1.24	NO	37.9
47	4 123478-HxCDF	373.8208	35.24	16310.785	1.068	0.603	0.603	1.11	1.24	NO	45.9
48	38 Total-hexafurans	373.8208	35.08	0.000	1.032	0.000	0.193	1.03	1.24	YES	15.1
49	9 1234789-HpCDF	407.7818	42.24	10913.518	1.215	0.533	0.533	0.99	1.05	NO	54.1

VR82: 01097

Quantify Totals Report MassLynx 4.1 SCN 714

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
50	39 Total-heptafurans	407.7818	40.33	322037.688	1.223	13.962	13.962	0.97	1.05	NO	1604.2
51	39 Total-heptafurans	407.7818	40.03	4579.942	1.223	0.199	0.199	1.12	1.05	NO	22.2
52	8 1234678-HpCDF	407.7818	39.54	188048.321	1.232	7.321	7.321	0.96	1.05	NO	966.8
53	10 OCDF	441.7428	47.56	304053.688	1.138	20.550	20.550	0.85	0.89	NO	1344.6
54	36 Total-penta1	339.8597	27.50	110198.746		3.718	3.718	1.52	1.55	NO	1626.5

TD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	11 2378-TCDD	319.8965	26.72	4427.083	1.049	0.000	0.101	0.40	0.77	YES	20.9
2	41 Total-tetradioxins	319.8965	26.33	4180.520	1.049	0.146	0.146	0.66	0.77	NO	19.9
3	41 Total-tetradioxins	319.8965	26.05	0.000	1.049	0.000	0.025	1.80	0.77	YES	15.0
4	41 Total-tetradioxins	319.8965	25.88	3840.866	1.049	0.134	0.134	0.69	0.77	NO	24.6
5	41 Total-tetradioxins	319.8965	25.70	1838.155	1.049	0.064	0.064	0.69	0.77	NO	12.2
6	41 Total-tetradioxins	319.8965	25.60	0.000	1.049	0.000	0.022	0.60	0.77	YES	5.6
7	41 Total-tetradioxins	319.8965	25.33	0.000	1.049	0.000	0.206	0.89	0.77	YES	49.3
8	41 Total-tetradioxins	319.8965	25.05	4970.271	1.049	0.173	0.173	0.84	0.77	NO	32.3
9	41 Total-tetradioxins	319.8965	24.85	9647.941	1.049	0.336	0.336	0.80	0.77	NO	80.0
10	41 Total-tetradioxins	319.8965	24.35	3371.124	1.049	0.118	0.118	0.86	0.77	NO	28.2
11	41 Total-tetradioxins	319.8965	24.14	0.000	1.049	0.000	0.273	0.89	0.77	YES	67.0
12	41 Total-tetradioxins	319.8965	23.85	12770.293	1.049	0.445	0.445	0.84	0.77	NO	100.1
13	41 Total-tetradioxins	319.8965	27.30	0.000	1.049	0.000	0.025	0.60	0.77	YES	6.0
14	41 Total-tetradioxins	319.8965	26.84	0.000	1.049	0.000	0.069	0.53	0.77	YES	15.6

PD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	12 12378-PeCDD	355.8546	31.81	12212.176	0.998	0.593	0.593	1.37	1.55	NO	76.7
2	42 Total-pentadioxins	355.8546	31.14	2930.691	0.998	0.142	0.142	1.60	1.55	NO	14.9
3	42 Total-pentadioxins	355.8546	30.76	12374.757	0.998	0.601	0.601	1.39	1.55	NO	57.8
4	42 Total-pentadioxins	355.8546	30.57	7355.950	0.998	0.357	0.357	1.75	1.55	NO	54.5
5	42 Total-pentadioxins	355.8546	30.44	10281.194	0.998	0.499	0.499	1.52	1.55	NO	74.3
6	42 Total-pentadioxins	355.8546	30.22	8192.774	0.998	0.398	0.398	1.67	1.55	NO	49.2
7	42 Total-pentadioxins	355.8546	29.61	8321.797	0.998	0.404	0.404	1.38	1.55	NO	51.7
8	42 Total-pentadioxins	355.8546	29.14	21655.665	0.998	1.051	1.051	1.52	1.55	NO	91.4
9	42 Total-pentadioxins	355.8546	32.22	0.000	0.998	0.000	0.142	1.81	1.55	YES	23.3

HD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati.	1° Rati.	1° R.	S/N
1	15 123789-HxCDD	389.8157	37.02	29154.625	0.932	1.431	1.431	1.17	1.24	NO	158.0
2	43 Total-hexadioxins	389.8157	36.78	7229.719	0.940	0.352	0.352	1.13	1.24	NO	38.2
3	14 123678-HxCDD	389.8157	36.60	45389.609	0.918	2.203	2.203	1.27	1.24	NO	276.4
4	13 123478-HxCDD	389.8157	36.47	14765.506	0.971	0.715	0.715	1.23	1.24	NO	97.1
5	43 Total-hexadioxins	389.8157	35.62	6083.359	0.940	0.296	0.296	1.26	1.24	NO	44.7
6	43 Total-hexadioxins	389.8157	35.51	116690.101	0.940	5.679	5.679	1.23	1.24	NO	435.9
7	43 Total-hexadioxins	389.8157	35.11	21968.417	0.940	1.069	1.069	1.19	1.24	NO	129.9
8	43 Total-hexadioxins	389.8157	34.31	82330.051	0.940	4.007	4.007	1.25	1.24	NO	515.6
9	43 Total-hexadioxins	389.8157	34.12	0.000	0.940	0.000	0.033				5.2

VR82 : 01098

Quantify Totals Report MassLynx 4.1 SCN 714

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HPD

	#	Name	Trace	RT	Abs. Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	16	1234678-HpCDD	423.7766	41.35	813391.907	1.017		42.987	42.987	1.05	1.05	NO	1762.4
2	44	Total-heptadioxins	423.7766	40.09	774251.063	1.017		40.919	40.919	1.04	1.05	NO	1795.1

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
35	Total-tetrafurans	303.9016	24.75	12205.177	0.877		0.343	0.343	0.81	0.77	NO	42.1
35	Total-tetrafurans	303.9016	24.32	7584.429	0.877		0.213	0.213	0.81	0.77	NO	29.9
35	Total-tetrafurans	303.9016	24.18	6047.799	0.877		0.170	0.170	0.82	0.77	NO	24.4
35	Total-tetrafurans	303.9016	24.08	12109.943	0.877		0.341	0.341	0.67	0.77	NO	43.4
35	Total-tetrafurans	303.9016	23.93	4699.695	0.877		0.132	0.132	0.66	0.77	NO	17.2
35	Total-tetrafurans	303.9016	23.84	11172.430	0.877		0.314	0.314	0.75	0.77	NO	43.0
35	Total-tetrafurans	303.9016	23.73	0.000	0.877		0.000	0.195	0.61	0.77	YES	28.2
35	Total-tetrafurans	303.9016	23.60	11950.089	0.877		0.336	0.336	0.87	0.77	NO	26.6
35	Total-tetrafurans	303.9016	23.43	35262.621	0.877		0.992	0.992	0.68	0.77	NO	121.5
35	Total-tetrafurans	303.9016	22.85	0.000	0.877		0.000	0.156	0.63	0.77	YES	23.5
35	Total-tetrafurans	303.9016	22.58	5818.288	0.877		0.164	0.164	0.70	0.77	NO	18.8
35	Total-tetrafurans	303.9016	27.51	3951.885	0.877		0.111	0.111	0.86	0.77	NO	11.1
35	Total-tetrafurans	303.9016	26.30	13466.621	0.877		0.379	0.379	0.68	0.77	NO	44.6
35	Total-tetrafurans	303.9016	26.21	0.000	0.877		0.000	0.130	1.02	0.77	YES	22.5
1	2378-TCDF	303.9016	26.08	11478.854	0.877		0.323	0.323	0.67	0.77	NO	45.1
35	Total-tetrafurans	303.9016	25.90	0.000	0.877		0.000	0.061	0.46	0.77	YES	10.9
35	Total-tetrafurans	303.9016	25.84	0.000	0.877		0.000	0.091	0.92	0.77	YES	16.3
35	Total-tetrafurans	303.9016	25.57	0.000	0.877		0.000	0.067	0.54	0.77	YES	8.6
35	Total-tetrafurans	303.9016	25.39	4893.838	0.877		0.138	0.138	0.83	0.77	NO	21.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877		0.000	0.228	0.94	0.77	YES	40.3
35	Total-tetrafurans	303.9016	24.99	19086.316	0.877		0.537	0.537	0.66	0.77	NO	62.3
35	Total-tetrafurans	303.9016	24.84	6263.811	0.877		0.176	0.176	0.68	0.77	NO	19.2
40	Total-Furans	303.9016	28.26	0.000	1.041		0.000	0.004	0.38	0.77	YES	1.0
37	Total-pentafurans	339.8597	29.26	964.039	0.911		0.033	0.033	1.66	1.55	NO	7.5
37	Total-pentafurans	339.8597	29.14	25920.729	0.911		0.880	0.880	1.43	1.55	NO	198.7
37	Total-pentafurans	339.8597	29.07	16951.284	0.911		0.576	0.576	1.39	1.55	NO	151.1
37	Total-pentafurans	339.8597	28.96	9210.106	0.911		0.313	0.313	1.72	1.55	NO	62.7
37	Total-pentafurans	339.8597	28.85	2150.490	0.911		0.073	0.073	1.53	1.55	NO	20.1
3	23478-PeCDF	339.8597	31.56	6795.158	0.926		0.227	0.208	1.25	1.55	YES	53.5
37	Total-pentafurans	339.8597	31.42	6210.909	0.911		0.211	0.211	1.55	1.55	NO	62.4
37	Total-pentafurans	339.8597	31.30	5862.257	0.911		0.199	0.199	1.60	1.55	NO	41.5
37	Total-pentafurans	339.8597	30.54	2546.778	0.911		0.086	0.086	1.43	1.55	NO	20.6
37	Total-pentafurans	339.8597	30.42	7386.479	0.911		0.251	0.251	1.35	1.55	NO	53.7
2	12378-PeCDF	339.8597	30.22	6428.201	0.896		0.222	0.222	1.61	1.55	NO	56.4
37	Total-pentafurans	339.8597	29.94	0.000	0.911		0.000	0.090	1.24	1.55	YES	30.2
37	Total-pentafurans	339.8597	29.86	12987.246	0.911		0.441	0.441	1.35	1.55	NO	91.2
37	Total-pentafurans	339.8597	29.76	0.000	0.911		0.000	0.053	1.14	1.55	YES	16.7
37	Total-pentafurans	339.8597	29.63	2520.577	0.911		0.086	0.086	1.57	1.55	NO	15.5
38	Total-hexafurans	373.8208	34.59	117129.953	1.032		4.458	4.458	1.16	1.24	NO	320.8
38	Total-hexafurans	373.8208	34.28	0.000	1.032		0.000	0.072	1.95	1.24	YES	8.1
38	Total-hexafurans	373.8208	33.99	0.000	1.032		0.000	0.014	3.85	1.24	YES	3.8
38	Total-hexafurans	373.8208	33.73	124367.184	1.032		4.734	4.734	1.20	1.24	NO	331.4
38	Total-hexafurans	373.8208	33.51	39145.357	1.032		1.490	1.490	1.24	1.24	NO	118.5
7	123789-HxCDF	373.8208	37.45	4794.164	0.987		0.194	0.194	1.34	1.24	NO	12.5
5	234678-HxCDF	373.8208	36.32	18384.113	1.037		0.702	0.702	1.26	1.24	NO	34.0
6	123678-HxCDF	373.8208	35.40	13467.488	1.035		0.497	0.497	1.07	1.24	NO	37.9
4	123478-HxCDF	373.8208	35.24	16310.785	1.068		0.603	0.603	1.11	1.24	NO	45.9
38	Total-hexafurans	373.8208	35.08	0.000	1.032		0.000	0.193	1.03	1.24	YES	15.1
9	1234789-HpCDF	407.7818	42.24	10913.518	1.215		0.533	0.533	0.99	1.05	NO	54.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
39	Total-heptafurans	407.7818	40.33	322037.688	1.223	13.962	13.962	0.97	1.05	NO	1604.2
39	Total-heptafurans	407.7818	40.03	4579.942	1.223	0.199	0.199	1.12	1.05	NO	22.2
8	1234678-HpCDF	407.7818	39.54	188048.321	1.232	7.321	7.321	0.96	1.05	NO	966.8
10	OCDF	441.7428	47.56	304053.688	1.138	20.550	20.550	0.85	0.89	NO	1344.6
36	Total-penta1	339.8597	27.50	110198.746		3.718	3.718	1.52	1.55	NO	1626.5

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs Resp	RF	M	pg	EMPC	1 st Rat	1 st Rat	1 st R	SN
1	35 Total-tetrafurans	303.9016	24.75	12205.177	0.877		0.343	0.343	0.81	0.77	NO	42.1
2	35 Total-tetrafurans	303.9016	24.32	7584.429	0.877		0.213	0.213	0.81	0.77	NO	29.9
3	35 Total-tetrafurans	303.9016	24.18	6047.799	0.877		0.170	0.170	0.82	0.77	NO	24.4
4	35 Total-tetrafurans	303.9016	24.08	12109.943	0.877		0.341	0.341	0.67	0.77	NO	43.4
5	35 Total-tetrafurans	303.9016	23.93	4699.695	0.877		0.132	0.132	0.66	0.77	NO	17.2
6	35 Total-tetrafurans	303.9016	23.84	11172.430	0.877		0.314	0.314	0.75	0.77	NO	43.0
7	35 Total-tetrafurans	303.9016	23.73	0.000	0.877		0.000	0.195	0.61	0.77	YES	28.2
8	35 Total-tetrafurans	303.9016	23.60	11950.089	0.877		0.336	0.336	0.87	0.77	NO	26.6
9	35 Total-tetrafurans	303.9016	23.43	35262.621	0.877		0.992	0.992	0.68	0.77	NO	121.5
10	35 Total-tetrafurans	303.9016	22.85	0.000	0.877		0.000	0.156	0.63	0.77	YES	23.5
11	35 Total-tetrafurans	303.9016	22.58	5818.288	0.877		0.164	0.164	0.70	0.77	NO	18.8
12	35 Total-tetrafurans	303.9016	27.51	3951.885	0.877		0.111	0.111	0.86	0.77	NO	11.1
13	35 Total-tetrafurans	303.9016	26.30	13466.621	0.877		0.379	0.379	0.68	0.77	NO	44.6
14	35 Total-tetrafurans	303.9016	26.21	0.000	0.877		0.000	0.130	1.02	0.77	YES	22.5
15	1 2378-TCDF	303.9016	26.08	11478.854	0.877		0.323	0.323	0.67	0.77	NO	45.1
16	35 Total-tetrafurans	303.9016	25.90	0.000	0.877		0.000	0.061	0.46	0.77	YES	10.9
17	35 Total-tetrafurans	303.9016	25.84	0.000	0.877		0.000	0.091	0.92	0.77	YES	16.3
18	35 Total-tetrafurans	303.9016	25.57	0.000	0.877		0.000	0.067	0.54	0.77	YES	8.6
19	35 Total-tetrafurans	303.9016	25.39	4893.838	0.877		0.138	0.138	0.83	0.77	NO	21.5
20	35 Total-tetrafurans	303.9016	25.17	0.000	0.877		0.000	0.228	0.94	0.77	YES	40.3
21	35 Total-tetrafurans	303.9016	24.99	19086.316	0.877		0.537	0.537	0.66	0.77	NO	62.3
22	35 Total-tetrafurans	303.9016	24.84	6263.811	0.877		0.176	0.176	0.68	0.77	NO	19.2
23	40 Total-Furans	303.9016	28.26	0.000	1.041		0.000	0.004	0.38	0.77	YES	1.0
24	37 Total-pentafurans	339.8597	29.26	964.039	0.911		0.033	0.033	1.66	1.55	NO	7.5
25	37 Total-pentafurans	339.8597	29.14	25920.729	0.911		0.880	0.880	1.43	1.55	NO	198.7
26	37 Total-pentafurans	339.8597	29.07	16951.284	0.911		0.576	0.576	1.39	1.55	NO	151.1
27	37 Total-pentafurans	339.8597	28.96	9210.106	0.911		0.313	0.313	1.72	1.55	NO	62.7
28	37 Total-pentafurans	339.8597	28.85	2150.490	0.911		0.073	0.073	1.53	1.55	NO	20.1
29	3 23478-PeCDF	339.8597	31.56	6795.158	0.926		0.000	0.208	1.25	1.55	YES	53.5
30	37 Total-pentafurans	339.8597	31.42	6210.909	0.911		0.211	0.211	1.55	1.55	NO	62.4
31	37 Total-pentafurans	339.8597	31.30	5862.257	0.911		0.199	0.199	1.60	1.55	NO	41.5
32	37 Total-pentafurans	339.8597	30.54	2546.778	0.911		0.086	0.086	1.43	1.55	NO	20.6
33	37 Total-pentafurans	339.8597	30.42	7386.479	0.911		0.251	0.251	1.35	1.55	NO	53.7
34	2 12378-PeCDF	339.8597	30.22	6428.201	0.896		0.222	0.222	1.61	1.55	NO	56.4
35	37 Total-pentafurans	339.8597	29.94	0.000	0.911		0.000	0.090	1.24	1.55	YES	30.2
36	37 Total-pentafurans	339.8597	29.86	12987.246	0.911		0.441	0.441	1.35	1.55	NO	91.2
37	37 Total-pentafurans	339.8597	29.76	0.000	0.911		0.000	0.053	1.14	1.55	YES	16.7
38	37 Total-pentafurans	339.8597	29.63	2520.577	0.911		0.086	0.086	1.57	1.55	NO	15.5
39	38 Total-hexafurans	373.8208	34.59	117129.953	1.032		4.458	4.458	1.16	1.24	NO	320.8
40	38 Total-hexafurans	373.8208	34.28	0.000	1.032		0.000	0.072	1.95	1.24	YES	8.1
41	38 Total-hexafurans	373.8208	33.99	0.000	1.032		0.000	0.014	3.85	1.24	YES	3.8
42	38 Total-hexafurans	373.8208	33.73	124367.184	1.032		4.734	4.734	1.20	1.24	NO	331.4
43	38 Total-hexafurans	373.8208	33.51	39145.357	1.032		1.490	1.490	1.24	1.24	NO	118.5
44	7 123789-HxCDF	373.8208	37.45	4794.164	0.987		0.194	0.194	1.34	1.24	NO	12.5
45	5 234678-HxCDF	373.8208	36.32	18384.113	1.037		0.702	0.702	1.26	1.24	NO	34.0
46	6 123678-HxCDF	373.8208	35.40	13467.488	1.035		0.497	0.497	1.07	1.24	NO	37.9
47	4 123478-HxCDF	373.8208	35.24	16310.785	1.068		0.603	0.603	1.11	1.24	NO	45.9
48	38 Total-hexafurans	373.8208	35.08	0.000	1.032		0.000	0.193	1.03	1.24	YES	15.1
49	9 1234789-HpCDF	407.7818	42.24	10913.518	1.215		0.533	0.533	0.99	1.05	NO	54.1

VR82: 01102

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
39	Total-heptafurans	407.7818	40.33	322037.688	1.223	13.962	13.962	0.97	1.05	NO	1604.2
39	Total-heptafurans	407.7818	40.03	4579.942	1.223	0.199	0.199	1.12	1.05	NO	22.2
8	1234678-HpCDF	407.7818	39.54	188048.321	1.232	7.321	7.321	0.96	1.05	NO	966.8
10	OCDF	441.7428	47.56	304053.688	1.138	20.550	20.550	0.85	0.89	NO	1344.6
36	Total-penta1	339.8597	27.50	110198.746		3.718	3.718	1.52	1.55	NO	1626.5
35	Total-tetrafurans	303.9016	24.75	12205.177	0.877	0.343	0.343	0.81	0.77	NO	42.1
35	Total-tetrafurans	303.9016	24.32	7584.429	0.877	0.213	0.213	0.81	0.77	NO	29.9
35	Total-tetrafurans	303.9016	24.18	6047.799	0.877	0.170	0.170	0.82	0.77	NO	24.4
35	Total-tetrafurans	303.9016	24.08	12109.943	0.877	0.341	0.341	0.67	0.77	NO	43.4
35	Total-tetrafurans	303.9016	23.93	4699.695	0.877	0.132	0.132	0.66	0.77	NO	17.2
35	Total-tetrafurans	303.9016	23.84	11172.430	0.877	0.314	0.314	0.75	0.77	NO	43.0
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.195	0.61	0.77	YES	28.2
35	Total-tetrafurans	303.9016	23.60	11950.089	0.877	0.336	0.336	0.87	0.77	NO	26.6
35	Total-tetrafurans	303.9016	23.43	35262.621	0.877	0.992	0.992	0.68	0.77	NO	121.5
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.156	0.63	0.77	YES	23.5
35	Total-tetrafurans	303.9016	22.58	5818.288	0.877	0.164	0.164	0.70	0.77	NO	18.8
35	Total-tetrafurans	303.9016	27.51	3951.885	0.877	0.111	0.111	0.86	0.77	NO	11.1
35	Total-tetrafurans	303.9016	26.30	13466.621	0.877	0.379	0.379	0.68	0.77	NO	44.6
35	Total-tetrafurans	303.9016	26.21	0.000	0.877	0.000	0.130	1.02	0.77	YES	22.5
1	2378-TCDF	303.9016	26.08	11478.854	0.877	0.323	0.323	0.67	0.77	NO	45.1
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.061	0.46	0.77	YES	10.9
35	Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.091	0.92	0.77	YES	16.3
35	Total-tetrafurans	303.9016	25.57	0.000	0.877	0.000	0.067	0.54	0.77	YES	8.6
35	Total-tetrafurans	303.9016	25.39	4893.838	0.877	0.138	0.138	0.83	0.77	NO	21.5
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.228	0.94	0.77	YES	40.3
35	Total-tetrafurans	303.9016	24.99	19086.316	0.877	0.537	0.537	0.66	0.77	NO	62.3
35	Total-tetrafurans	303.9016	24.84	6263.811	0.877	0.176	0.176	0.68	0.77	NO	19.2
40	Total-Furans	303.9016	28.26	0.000	1.041	0.000	0.004	0.38	0.77	YES	1.0
37	Total-pentafurans	339.8597	29.26	964.039	0.911	0.033	0.033	1.66	1.55	NO	7.5
37	Total-pentafurans	339.8597	29.14	25920.729	0.911	0.880	0.880	1.43	1.55	NO	198.7
37	Total-pentafurans	339.8597	29.07	16951.284	0.911	0.576	0.576	1.39	1.55	NO	151.1
37	Total-pentafurans	339.8597	28.96	9210.106	0.911	0.313	0.313	1.72	1.55	NO	62.7
37	Total-pentafurans	339.8597	28.85	2150.490	0.911	0.073	0.073	1.53	1.55	NO	20.1
3	23478-PeCDF	339.8597	31.56	6795.158	0.926	0.000	0.208	1.25	1.55	YES	53.5
37	Total-pentafurans	339.8597	31.42	6210.909	0.911	0.211	0.211	1.55	1.55	NO	62.4
37	Total-pentafurans	339.8597	31.30	5862.257	0.911	0.199	0.199	1.60	1.55	NO	41.5
37	Total-pentafurans	339.8597	30.54	2546.778	0.911	0.086	0.086	1.43	1.55	NO	20.6
37	Total-pentafurans	339.8597	30.42	7386.479	0.911	0.251	0.251	1.35	1.55	NO	53.7
2	12378-PeCDF	339.8597	30.22	6428.201	0.896	0.222	0.222	1.61	1.55	NO	56.4
37	Total-pentafurans	339.8597	29.94	0.000	0.911	0.000	0.090	1.24	1.55	YES	30.2
37	Total-pentafurans	339.8597	29.86	12987.246	0.911	0.441	0.441	1.35	1.55	NO	91.2
37	Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.053	1.14	1.55	YES	16.7
37	Total-pentafurans	339.8597	29.63	2520.577	0.911	0.086	0.086	1.57	1.55	NO	15.5
38	Total-hexafurans	373.8208	34.59	117129.953	1.032	4.458	4.458	1.16	1.24	NO	320.8
38	Total-hexafurans	373.8208	34.28	0.000	1.032	0.000	0.072	1.95	1.24	YES	8.1
38	Total-hexafurans	373.8208	33.99	0.000	1.032	0.000	0.014	3.85	1.24	YES	3.8
38	Total-hexafurans	373.8208	33.73	124367.184	1.032	4.734	4.734	1.20	1.24	NO	331.4
38	Total-hexafurans	373.8208	33.51	39145.357	1.032	1.490	1.490	1.24	1.24	NO	118.5
7	123789-HxCDF	373.8208	37.45	4794.164	0.987	0.194	0.194	1.34	1.24	NO	12.5

VR82: 01103

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
55	5 234678-HxCDF	373.8208	36.32	18384.113	1.037	0.702	0.702	1.26	1.24	NO	34.0
100	6 123678-HxCDF	373.8208	35.40	13467.488	1.035	0.497	0.497	1.07	1.24	NO	37.9
101	4 123478-HxCDF	373.8208	35.24	16310.785	1.068	0.603	0.603	1.11	1.24	NO	45.9
102	38 Total-hexafurans	373.8208	35.08	0.000	1.032	0.000	0.193	1.03	1.24	YES	15.1
103	9 1234789-HpCDF	407.7818	42.24	10913.518	1.215	0.533	0.533	0.99	1.05	NO	54.1
104	39 Total-heptafurans	407.7818	40.33	322037.688	1.223	13.962	13.962	0.97	1.05	NO	1604.2
105	39 Total-heptafurans	407.7818	40.03	4579.942	1.223	0.199	0.199	1.12	1.05	NO	22.2
106	8 1234678-HpCDF	407.7818	39.54	188048.321	1.232	7.321	7.321	0.96	1.05	NO	966.8
107	10 OCDF	441.7428	47.56	304053.688	1.138	20.550	20.550	0.85	0.89	NO	1344.6
108	36 Total-penta1	339.8597	27.50	110198.746		3.718	3.718	1.52	1.55	NO	1626.5

PFK1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	22.52	0.000							1.5
2	48 FUNCTION1 PFK	330.9792	22.42	0.000							0.6
3	48 FUNCTION1 PFK	330.9792	22.25	0.000							1.5
4	48 FUNCTION1 PFK	330.9792	22.00	0.000							0.7
5	48 FUNCTION1 PFK	330.9792	21.67	0.000							2.9
6	48 FUNCTION1 PFK	330.9792	21.45	0.000							3.1
7	48 FUNCTION1 PFK	330.9792	21.40	0.000							2.6
8	48 FUNCTION1 PFK	330.9792	21.33	0.000							2.2
9	48 FUNCTION1 PFK	330.9792	21.27	0.000							3.2
10	48 FUNCTION1 PFK	330.9792	21.16	0.000							2.7
11	48 FUNCTION1 PFK	330.9792	27.03	0.000							0.6
12	48 FUNCTION1 PFK	330.9792	26.57	0.000							0.8
13	48 FUNCTION1 PFK	330.9792	26.47	0.000							1.7
14	48 FUNCTION1 PFK	330.9792	26.11	0.000							4.5
15	48 FUNCTION1 PFK	330.9792	25.81	0.000							4.1
16	48 FUNCTION1 PFK	330.9792	25.66	0.000							1.9
17	48 FUNCTION1 PFK	330.9792	25.47	0.000							0.4
18	48 FUNCTION1 PFK	330.9792	24.90	0.000							1.4
19	48 FUNCTION1 PFK	330.9792	24.67	0.000							0.4
20	48 FUNCTION1 PFK	330.9792	24.60	0.000							0.9
21	48 FUNCTION1 PFK	330.9792	24.35	0.000							0.6
22	48 FUNCTION1 PFK	330.9792	23.69	0.000							1.0
23	48 FUNCTION1 PFK	330.9792	23.39	0.000							0.5
24	48 FUNCTION1 PFK	330.9792	23.19	0.000							0.4
25	48 FUNCTION1 PFK	330.9792	23.13	0.000							0.6
26	48 FUNCTION1 PFK	330.9792	22.58	0.000							2.0
27	48 FUNCTION1 PFK	330.9792	27.93	0.000							1.8
28	48 FUNCTION1 PFK	330.9792	27.74	0.000							1.5
29	48 FUNCTION1 PFK	330.9792	27.36	0.000							0.5
30	48 FUNCTION1 PFK	330.9792	27.30	0.000							0.7
31	48 FUNCTION1 PFK	330.9792	27.23	0.000							1.7

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
50	FUNCTION3 PFK	380.9760	37.38	0.000		0.000					8.1
50	FUNCTION3 PFK	380.9760	34.76	0.000		0.000					2.2

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

PFK4

	#	Name	Trace	RT	Abs. Resp	RRF	M	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
1	51	FUNCTION4 PFK	430.9728	38.92	0.000								1.4
2	51	FUNCTION4 PFK	430.9728	38.85	0.000								1.4
3	51	FUNCTION4 PFK	430.9728	38.76	0.000								2.4
4	51	FUNCTION4 PFK	430.9728	38.72	0.000								2.6
5	51	FUNCTION4 PFK	430.9728	38.61	0.000								1.6
6	51	FUNCTION4 PFK	430.9728	38.55	0.000								2.2
7	51	FUNCTION4 PFK	430.9728	40.02	0.000								0.7
8	51	FUNCTION4 PFK	430.9728	39.99	0.000								1.1
9	51	FUNCTION4 PFK	430.9728	39.94	0.000								1.9
10	51	FUNCTION4 PFK	430.9728	39.87	0.000								0.5
11	51	FUNCTION4 PFK	430.9728	39.80	0.000								1.1
12	51	FUNCTION4 PFK	430.9728	39.72	0.000								1.2
13	51	FUNCTION4 PFK	430.9728	39.67	0.000								2.0
14	51	FUNCTION4 PFK	430.9728	39.59	0.000								2.2
15	51	FUNCTION4 PFK	430.9728	39.55	0.000								1.5
16	51	FUNCTION4 PFK	430.9728	39.50	0.000								1.3
17	51	FUNCTION4 PFK	430.9728	39.36	0.000								0.6
18	51	FUNCTION4 PFK	430.9728	39.27	0.000								0.9
19	51	FUNCTION4 PFK	430.9728	39.17	0.000								1.0
20	51	FUNCTION4 PFK	430.9728	39.09	0.000								0.3
21	51	FUNCTION4 PFK	430.9728	39.05	0.000								0.9
22	51	FUNCTION4 PFK	430.9728	38.99	0.000								1.3
23	51	FUNCTION4 PFK	430.9728	41.17	0.000								1.6
24	51	FUNCTION4 PFK	430.9728	41.09	0.000								1.6
25	51	FUNCTION4 PFK	430.9728	41.02	0.000								0.5
26	51	FUNCTION4 PFK	430.9728	40.90	0.000								0.4
27	51	FUNCTION4 PFK	430.9728	40.84	0.000								1.1
28	51	FUNCTION4 PFK	430.9728	40.74	0.000								0.4
29	51	FUNCTION4 PFK	430.9728	40.62	0.000								0.6
30	51	FUNCTION4 PFK	430.9728	40.57	0.000								0.9
31	51	FUNCTION4 PFK	430.9728	40.51	0.000								1.0
32	51	FUNCTION4 PFK	430.9728	40.44	0.000								0.9
33	51	FUNCTION4 PFK	430.9728	40.39	0.000								0.3
34	51	FUNCTION4 PFK	430.9728	40.28	0.000								0.4
35	51	FUNCTION4 PFK	430.9728	40.24	0.000								0.3
36	51	FUNCTION4 PFK	430.9728	40.21	0.000								0.6
37	51	FUNCTION4 PFK	430.9728	40.14	0.000								0.8
38	51	FUNCTION4 PFK	430.9728	40.10	0.000								0.9
39	51	FUNCTION4 PFK	430.9728	42.37	0.000								1.4
40	51	FUNCTION4 PFK	430.9728	42.33	0.000								0.9
41	51	FUNCTION4 PFK	430.9728	42.16	0.000								1.1
42	51	FUNCTION4 PFK	430.9728	42.11	0.000								1.0
43	51	FUNCTION4 PFK	430.9728	42.01	0.000								0.6
44	51	FUNCTION4 PFK	430.9728	41.93	0.000								0.8
45	51	FUNCTION4 PFK	430.9728	41.79	0.000								0.9
46	51	FUNCTION4 PFK	430.9728	41.70	0.000								1.1
47	51	FUNCTION4 PFK	430.9728	41.60	0.000								0.5
48	51	FUNCTION4 PFK	430.9728	41.57	0.000								0.7
49	51	FUNCTION4 PFK	430.9728	41.53	0.000								0.6

VR82: 01105

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	51 FUNCTION4 PFK	430.9728	41.49	0.000							0.9
51	51 FUNCTION4 PFK	430.9728	41.37	0.000							1.3
52	51 FUNCTION4 PFK	430.9728	41.34	0.000							1.8
53	51 FUNCTION4 PFK	430.9728	41.31	0.000							1.9
54	51 FUNCTION4 PFK	430.9728	41.25	0.000							1.9
55	51 FUNCTION4 PFK	430.9728	43.52	0.000							1.4
56	51 FUNCTION4 PFK	430.9728	43.44	0.000							1.4
57	51 FUNCTION4 PFK	430.9728	43.38	0.000							1.8
58	51 FUNCTION4 PFK	430.9728	43.35	0.000							1.5
59	51 FUNCTION4 PFK	430.9728	43.29	0.000							1.5
60	51 FUNCTION4 PFK	430.9728	43.22	0.000							1.1
61	51 FUNCTION4 PFK	430.9728	43.16	0.000							1.5
62	51 FUNCTION4 PFK	430.9728	43.12	0.000							1.1
63	51 FUNCTION4 PFK	430.9728	43.05	0.000							1.5
64	51 FUNCTION4 PFK	430.9728	42.96	0.000							0.7
65	51 FUNCTION4 PFK	430.9728	42.74	0.000							1.1
66	51 FUNCTION4 PFK	430.9728	42.68	0.000							0.7
67	51 FUNCTION4 PFK	430.9728	42.62	0.000							0.8
68	51 FUNCTION4 PFK	430.9728	42.51	0.000							1.5
69	51 FUNCTION4 PFK	430.9728	42.47	0.000							1.7
70	51 FUNCTION4 PFK	430.9728	42.39	0.000							1.5
71	51 FUNCTION4 PFK	430.9728	44.80	0.000							1.1
72	51 FUNCTION4 PFK	430.9728	44.75	0.000							1.2
73	51 FUNCTION4 PFK	430.9728	44.66	0.000							1.1
74	51 FUNCTION4 PFK	430.9728	44.61	0.000							0.6
75	51 FUNCTION4 PFK	430.9728	44.52	0.000							0.8
76	51 FUNCTION4 PFK	430.9728	44.47	0.000							1.8
77	51 FUNCTION4 PFK	430.9728	44.39	0.000							0.8
78	51 FUNCTION4 PFK	430.9728	44.19	0.000							1.7
79	51 FUNCTION4 PFK	430.9728	44.07	0.000							1.3
80	51 FUNCTION4 PFK	430.9728	44.03	0.000							0.8
81	51 FUNCTION4 PFK	430.9728	43.82	0.000							1.0
82	51 FUNCTION4 PFK	430.9728	43.59	0.000							1.7

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

PFK5

	# Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
	52 FUNCTION5 PFK	480.9696	45.25	0.000							1.5
	52 FUNCTION5 PFK	480.9696	45.20	0.000							1.6
	52 FUNCTION5 PFK	480.9696	45.08	0.000							0.6
	52 FUNCTION5 PFK	480.9696	46.49	0.000							1.9
	52 FUNCTION5 PFK	480.9696	46.39	0.000							0.5
	52 FUNCTION5 PFK	480.9696	46.28	0.000							0.7
	52 FUNCTION5 PFK	480.9696	46.21	0.000							1.5
	52 FUNCTION5 PFK	480.9696	46.17	0.000							0.7
	52 FUNCTION5 PFK	480.9696	46.12	0.000							0.5
	52 FUNCTION5 PFK	480.9696	46.10	0.000							0.5
	52 FUNCTION5 PFK	480.9696	46.02	0.000							0.9
	52 FUNCTION5 PFK	480.9696	45.99	0.000							0.4
	52 FUNCTION5 PFK	480.9696	45.92	0.000							1.0
	52 FUNCTION5 PFK	480.9696	45.77	0.000							0.9
	52 FUNCTION5 PFK	480.9696	45.68	0.000							0.4
	52 FUNCTION5 PFK	480.9696	45.65	0.000							1.1
	52 FUNCTION5 PFK	480.9696	45.47	0.000							0.4
	52 FUNCTION5 PFK	480.9696	45.43	0.000							1.3
	52 FUNCTION5 PFK	480.9696	45.37	0.000							1.3
	52 FUNCTION5 PFK	480.9696	47.65	0.000							0.6
	52 FUNCTION5 PFK	480.9696	47.56	0.000							0.8
	52 FUNCTION5 PFK	480.9696	47.44	0.000							0.5
	52 FUNCTION5 PFK	480.9696	47.41	0.000							1.9
	52 FUNCTION5 PFK	480.9696	47.17	0.000							1.6
	52 FUNCTION5 PFK	480.9696	47.13	0.000							0.8
	52 FUNCTION5 PFK	480.9696	47.09	0.000							1.4
	52 FUNCTION5 PFK	480.9696	47.05	0.000							1.5
	52 FUNCTION5 PFK	480.9696	46.97	0.000							1.1
	52 FUNCTION5 PFK	480.9696	46.93	0.000							0.7
	52 FUNCTION5 PFK	480.9696	46.89	0.000							1.0
	52 FUNCTION5 PFK	480.9696	46.80	0.000							0.4
	52 FUNCTION5 PFK	480.9696	46.68	0.000							0.6
	52 FUNCTION5 PFK	480.9696	46.63	0.000							1.1
	52 FUNCTION5 PFK	480.9696	46.60	0.000							1.2
	52 FUNCTION5 PFK	480.9696	46.57	0.000							1.3
	52 FUNCTION5 PFK	480.9696	48.94	0.000							1.1
	52 FUNCTION5 PFK	480.9696	48.90	0.000							0.9
	52 FUNCTION5 PFK	480.9696	48.76	0.000							1.4
	52 FUNCTION5 PFK	480.9696	48.47	0.000							0.3
	52 FUNCTION5 PFK	480.9696	48.44	0.000							0.6
	52 FUNCTION5 PFK	480.9696	48.42	0.000							0.6
	52 FUNCTION5 PFK	480.9696	48.20	0.000							0.8
	52 FUNCTION5 PFK	480.9696	48.16	0.000							2.0
	52 FUNCTION5 PFK	480.9696	48.10	0.000							1.7
	52 FUNCTION5 PFK	480.9696	48.03	0.000							2.3
	52 FUNCTION5 PFK	480.9696	47.95	0.000							1.6
	52 FUNCTION5 PFK	480.9696	47.91	0.000							1.6
	52 FUNCTION5 PFK	480.9696	47.82	0.000							1.0
	52 FUNCTION5 PFK	480.9696	47.76	0.000							0.5

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	52 FUNCTION5 PFK	480.9696	47.72	0.000							0.7

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	23.94	0.000		0.000					11.2
2	53 FUNCTION1 HXCD...	375.8364	22.57	0.000		0.000					4.6
3	53 FUNCTION1 HXCD...	375.8364	21.16	0.000		0.000					3.4

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.78	0.000		0.000					1.8
2	54 FUNCTION1 HPCD...	409.7974	25.62	0.000		0.000					1.9
3	54 FUNCTION1 HPCD...	409.7974	23.73	0.000		0.000					2.2
4	54 FUNCTION1 HPCD...	409.7974	22.64	0.000		0.000					2.4

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	30.39	0.000		0.000					3.0
2	55 FUNCTION2 HPCD...	409.7974	30.20	0.000		0.000					2.8
3	55 FUNCTION2 HPCD...	409.7974	29.87	0.000		0.000					3.8
4	55 FUNCTION2 HPCD...	409.7974	29.85	0.000		0.000					3.9
5	55 FUNCTION2 HPCD...	409.7974	29.59	0.000		0.000					2.0
6	55 FUNCTION2 HPCD...	409.7974	29.35	0.000		0.000					2.0
7	55 FUNCTION2 HPCD...	409.7974	28.72	0.000		0.000					1.3
8	55 FUNCTION2 HPCD...	409.7974	32.96	0.000		0.000					2.2
9	55 FUNCTION2 HPCD...	409.7974	32.48	0.000		0.000					1.6
10	55 FUNCTION2 HPCD...	409.7974	31.17	0.000		0.000					1.9

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	36.40	0.000		0.000					5.4

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.13	0.000		0.000					904.1
2	57 FUNCTION4 NCDPE	479.7165	38.96	0.000		0.000					3.2

ETHERS6

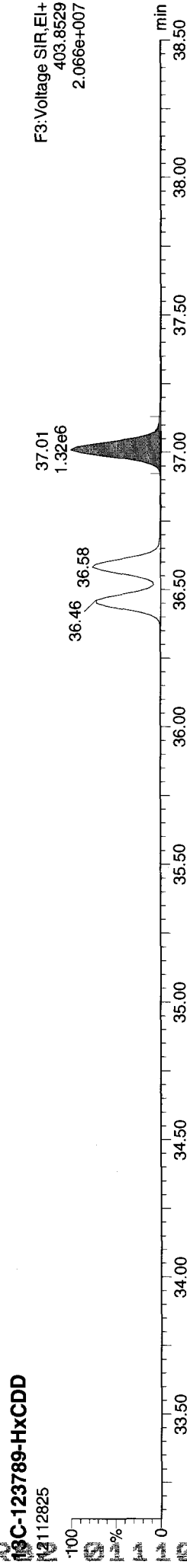
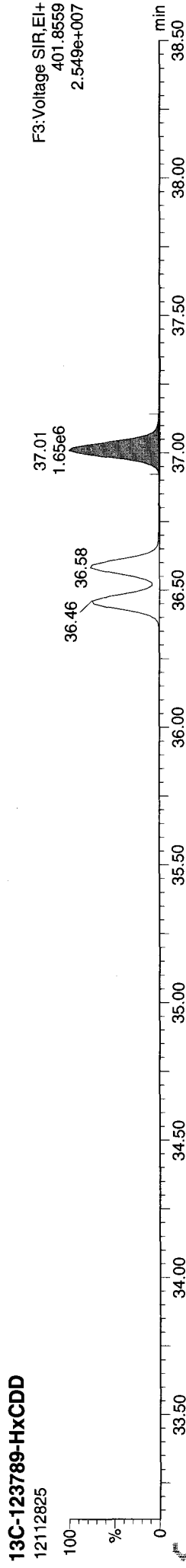
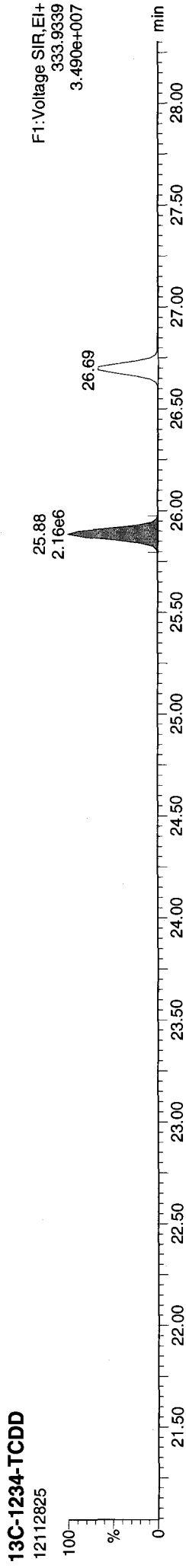
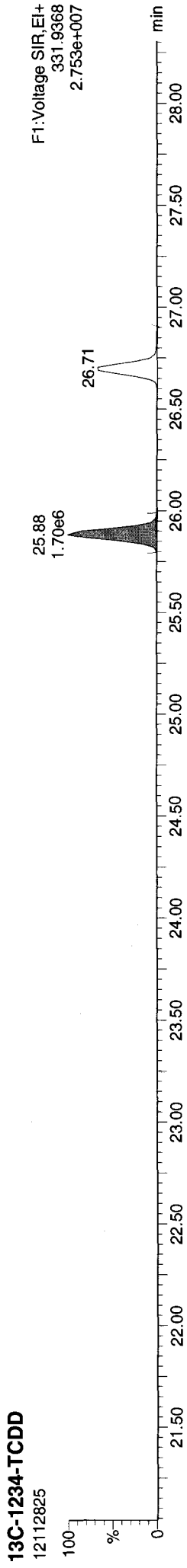
#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethdB\DiDioxin121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

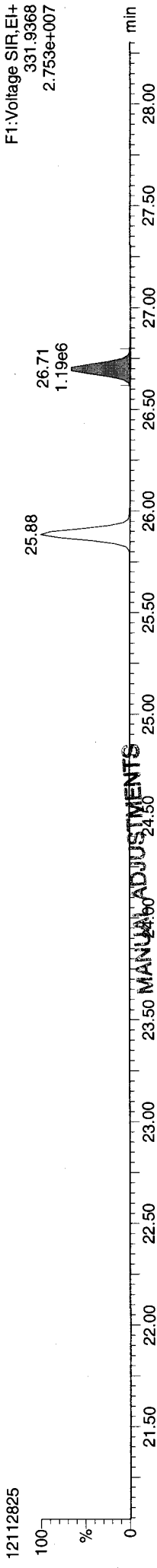
Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk



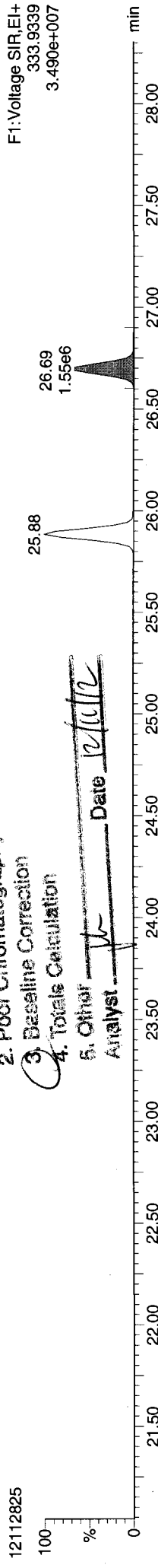
Quantify Sample Report MassLynx 4.1 SCN 714
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD



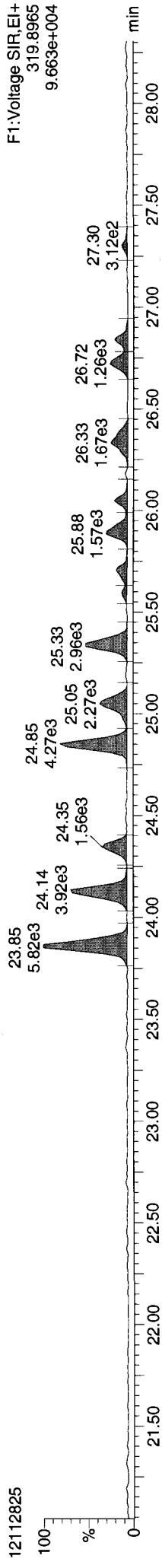
13C-2378-TCDD



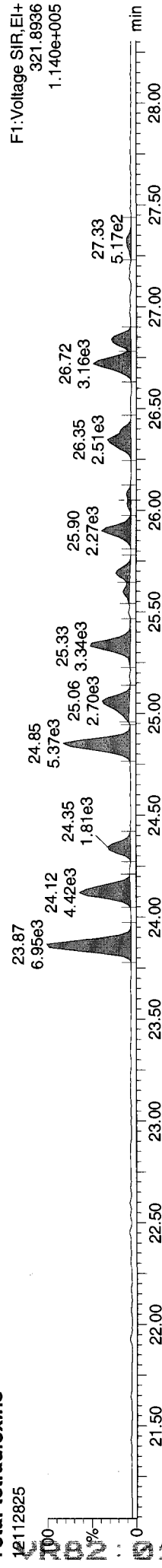
- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other

Analyst: [Signature] Date: 12/11/12

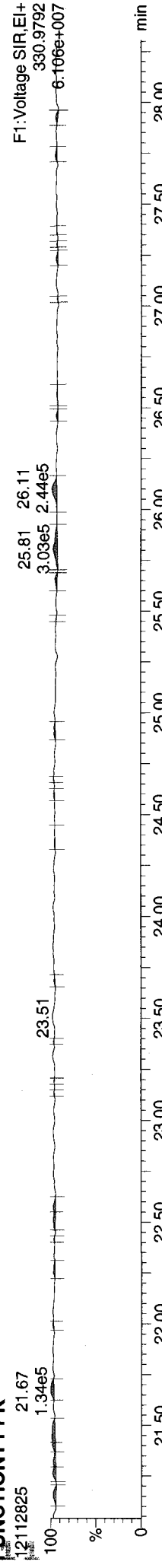
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

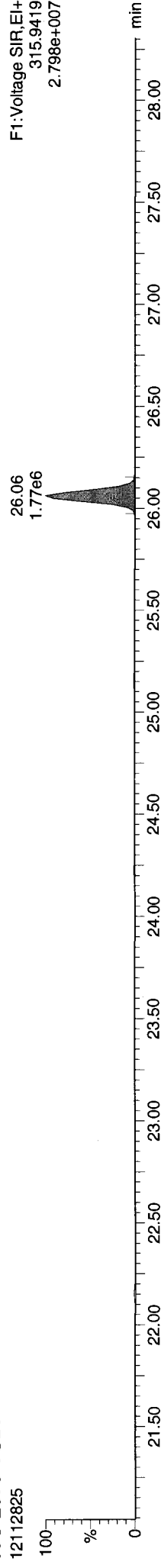


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

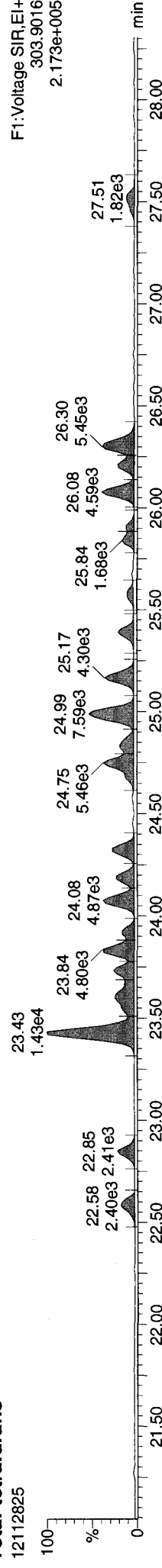
13C-2378-TCDF



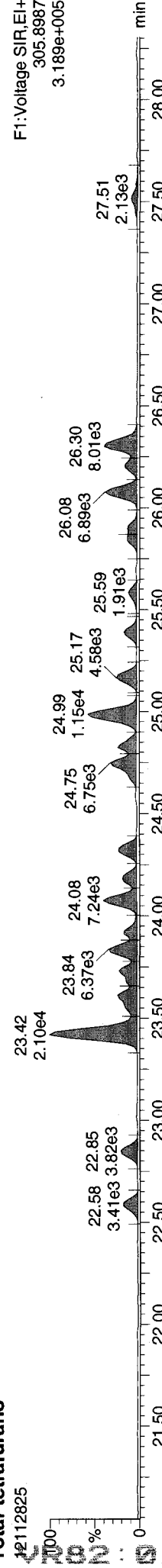
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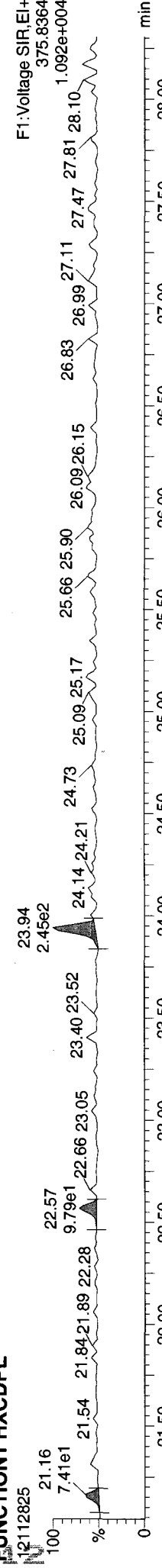
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



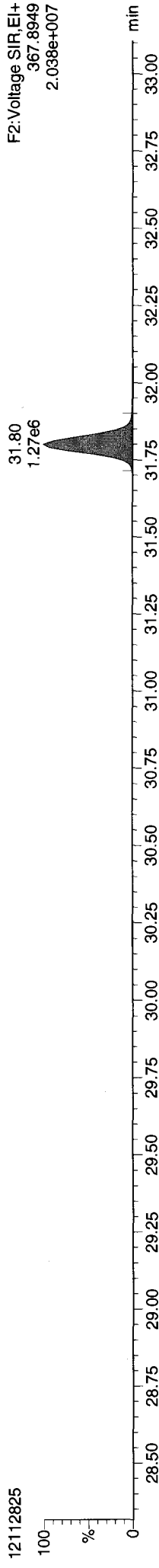
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

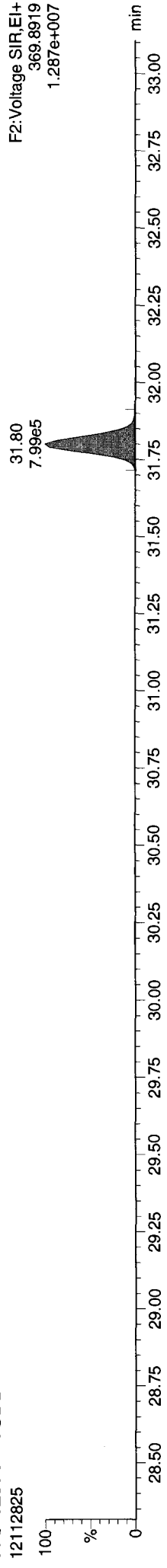
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

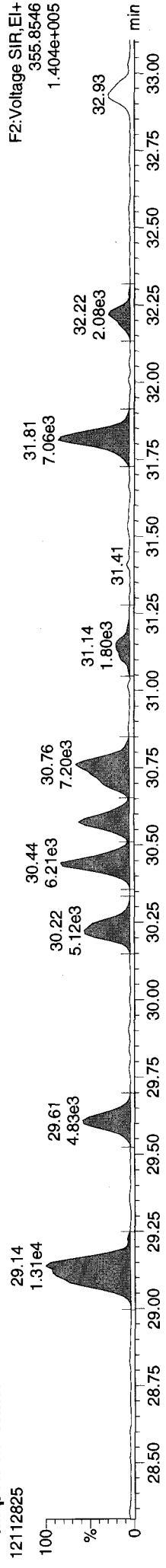
13C-12378-PeCDD



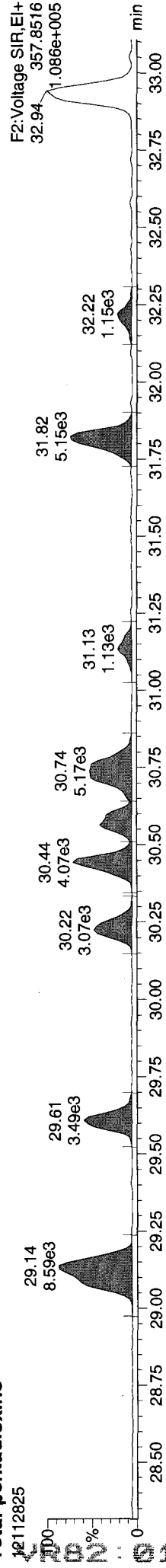
13C-12378-PeCDD



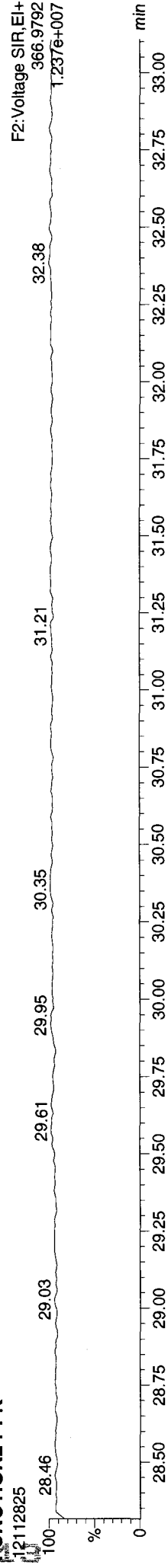
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

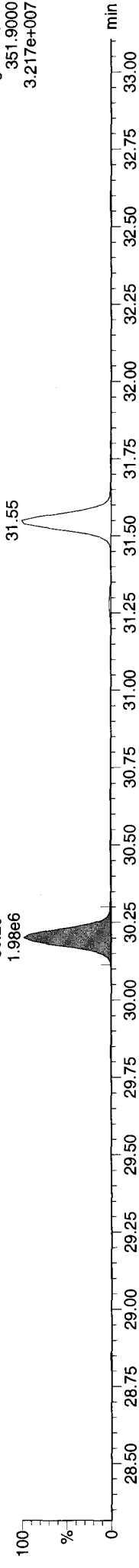
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

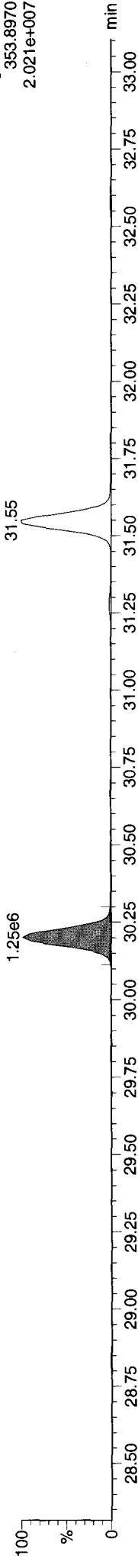
13C-12378-PeCDF

12112825



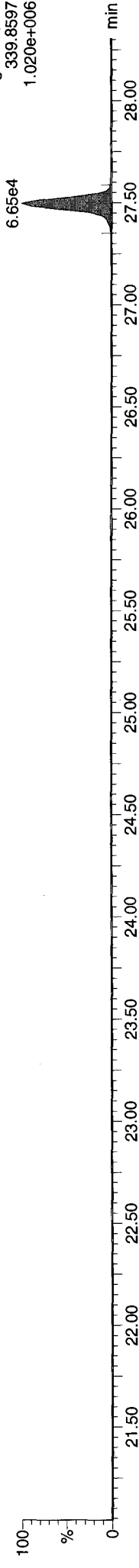
13C-12378-PeCDF

12112825



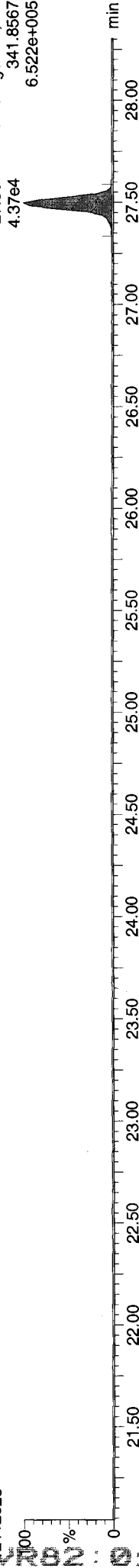
Total-penta1

12112825



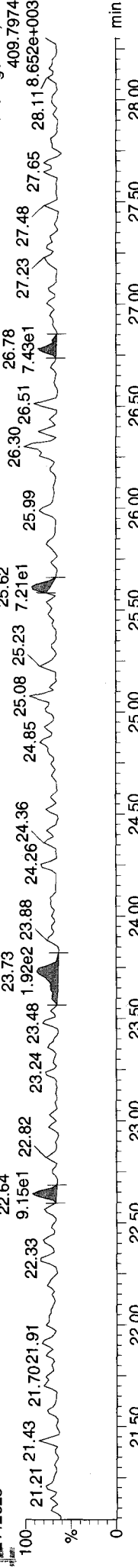
Total-penta1

12112825



FUNCTION1 HPCDPE

12112825

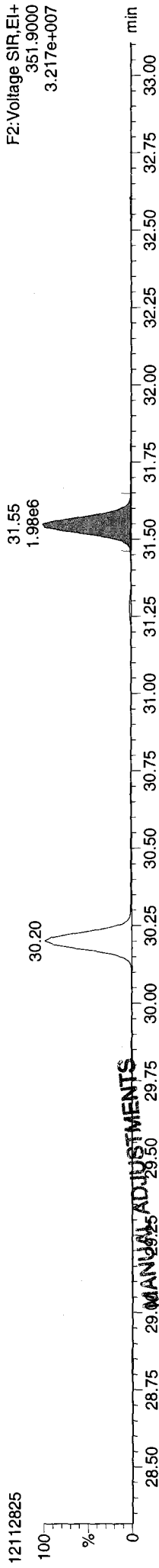


Quantify Sample Report MassLynx 4.1 SCN 714

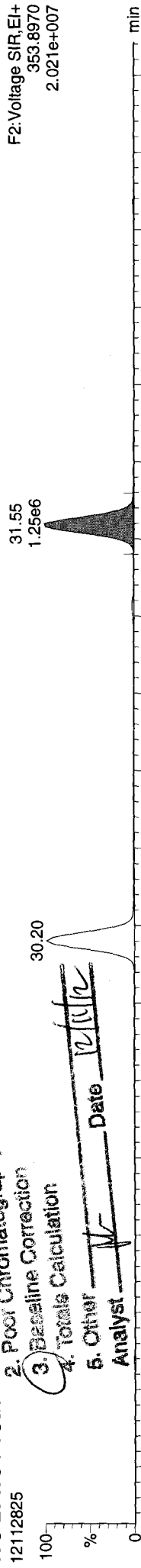
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

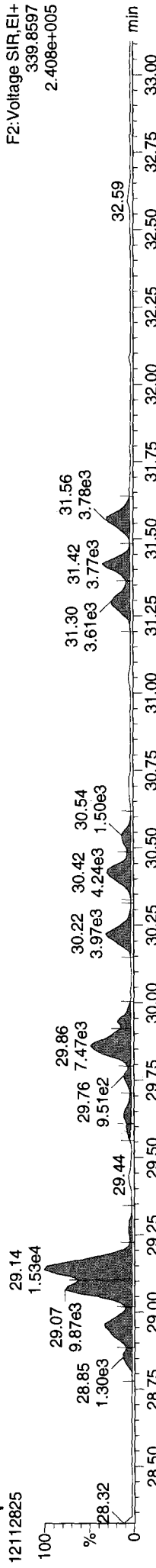
13C-23478-PeCDF



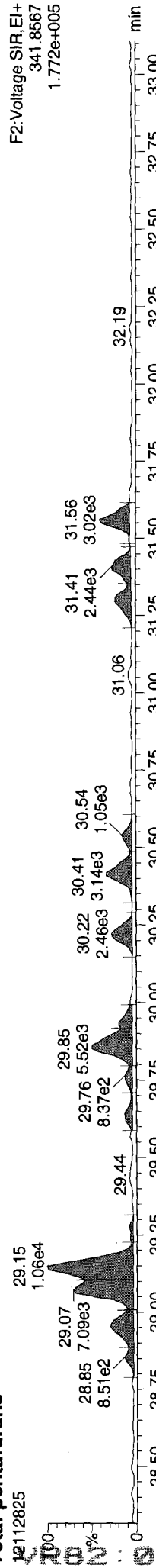
13C-23478-PeCDF



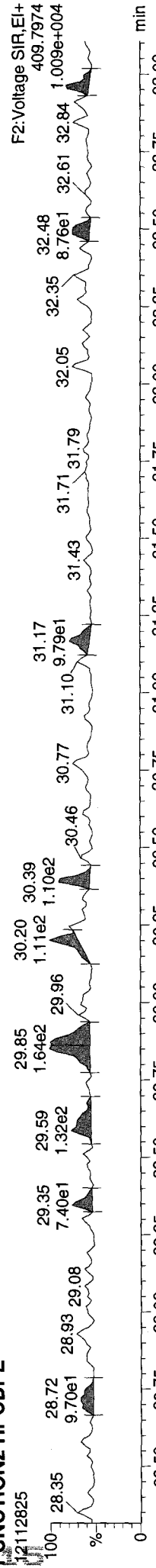
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

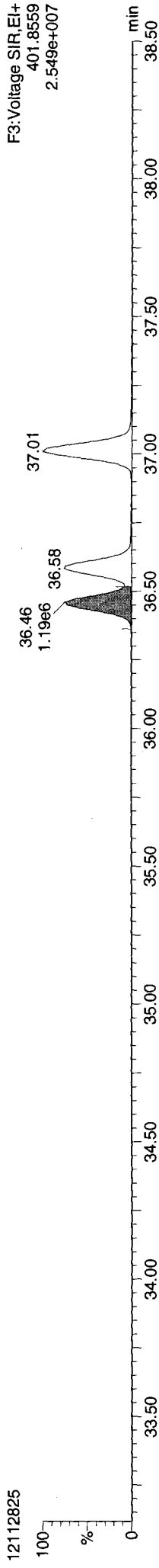


Quantify Sample Report MassLynx 4.1 SCN 714

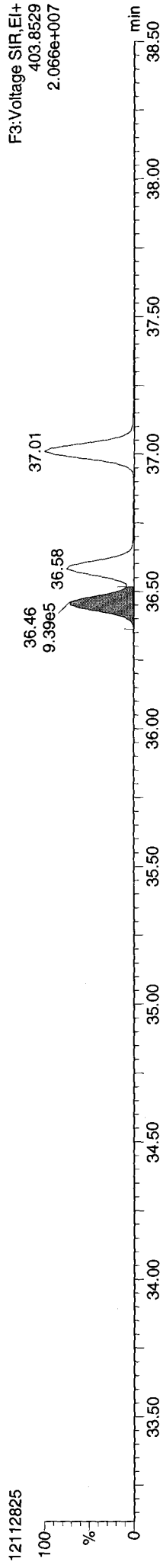
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

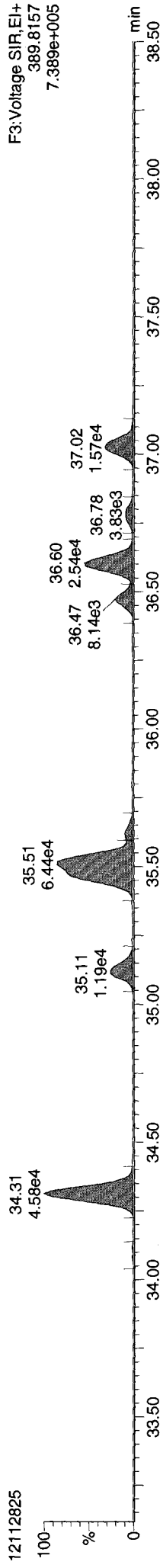
13C-123478-HxCDD



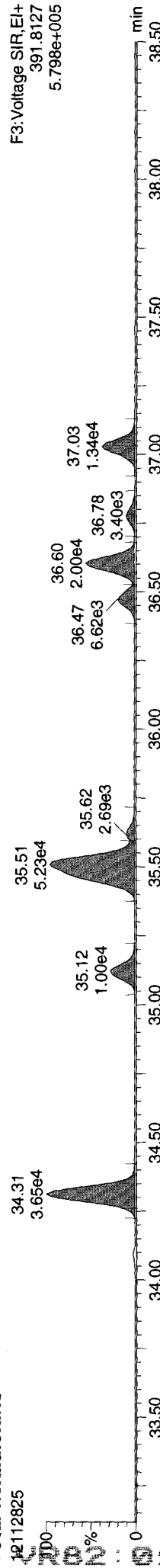
13C-123478-HxCDD



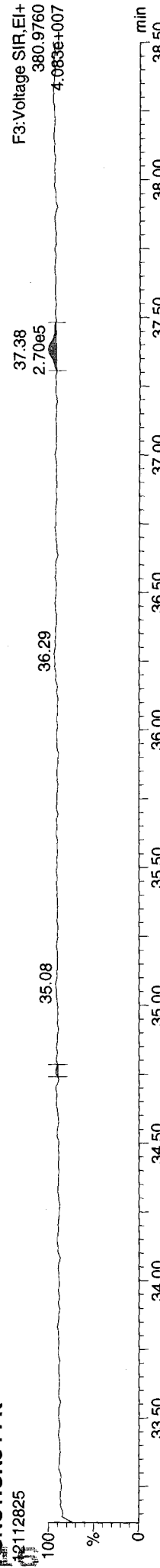
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

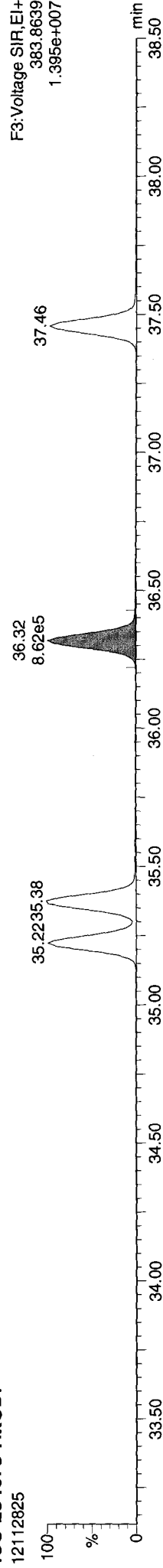


Quantify Sample Report MassLynx 4.1 SCN 714

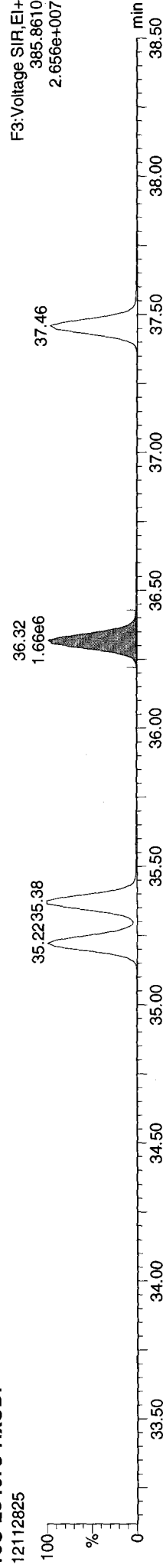
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

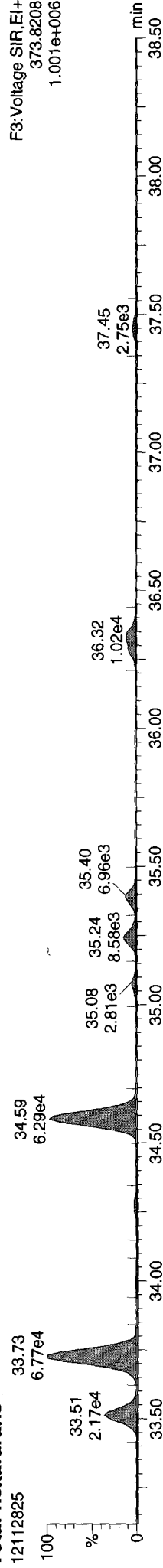
13C-234678-HxCDF



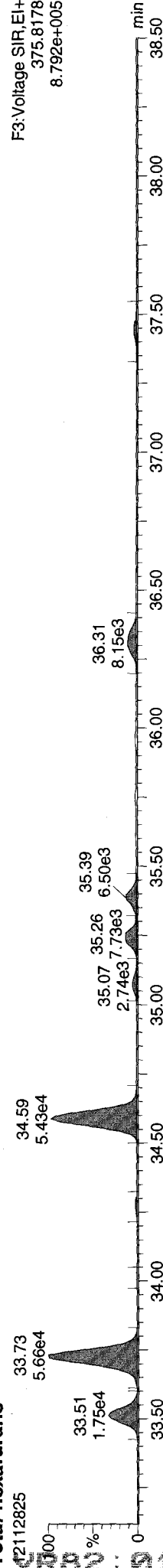
13C-234678-HxCDF



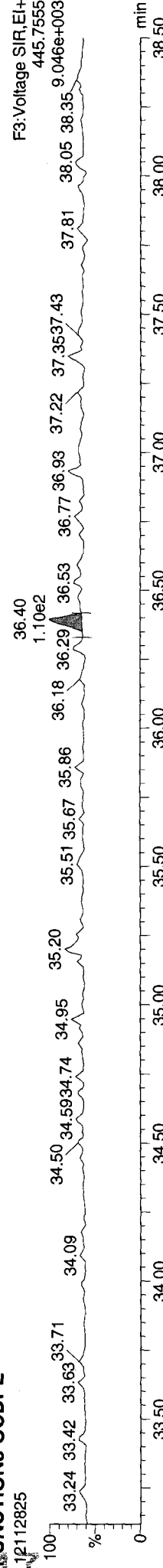
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

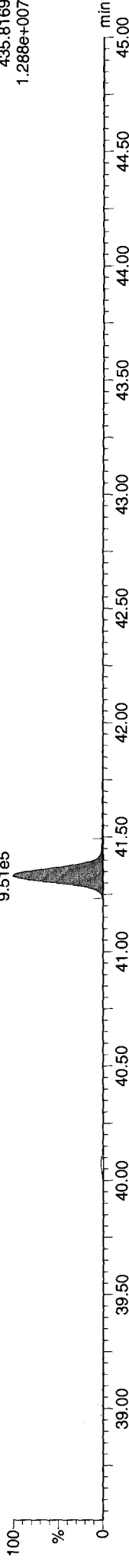
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

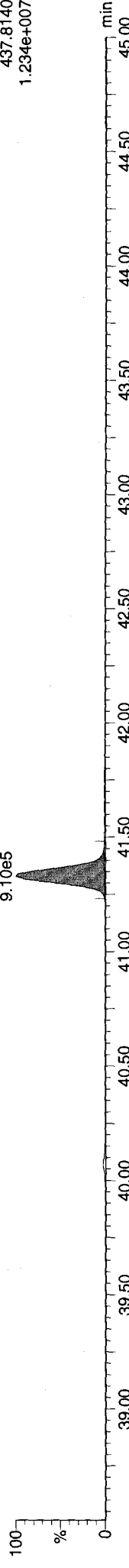
13C-1234678-HpCDD

12112825



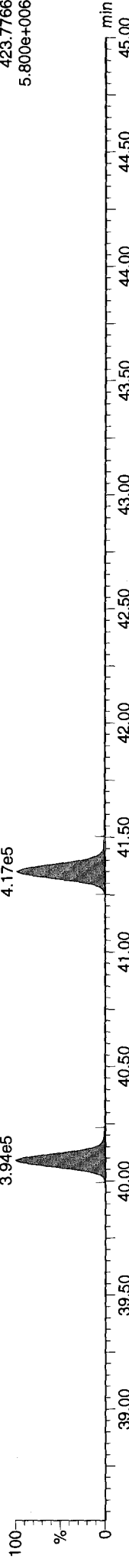
13C-1234678-HpCDD

12112825



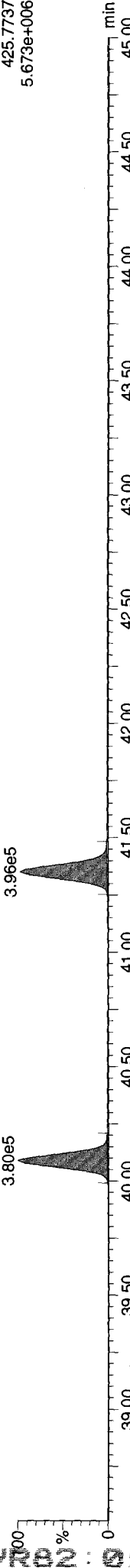
Total-heptadioxins

12112825



Total-heptadioxins

12112825



FUNCTION4 PFK

12112825



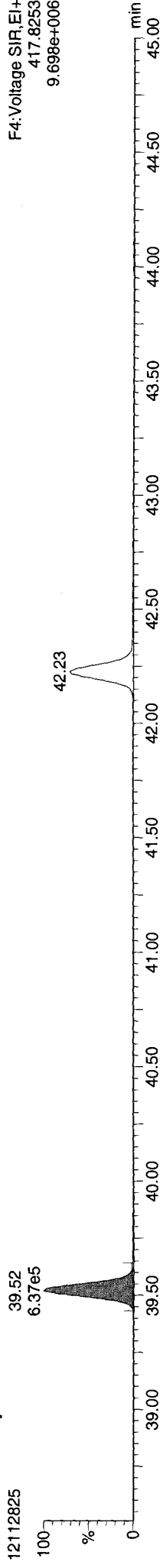
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

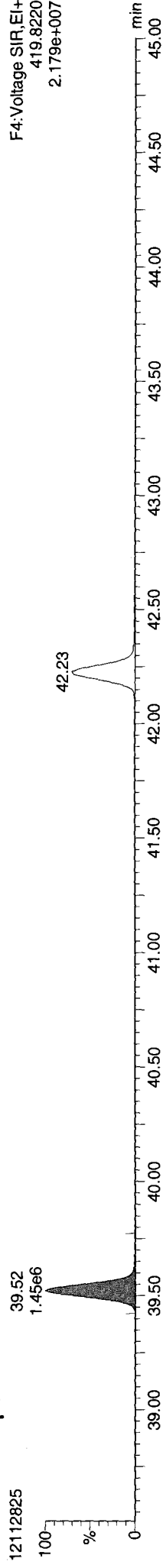
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

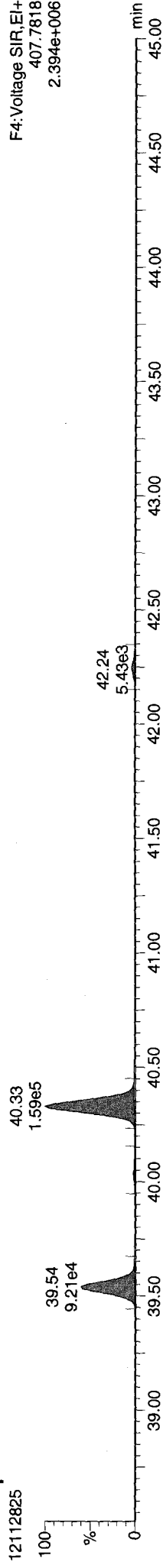
13C-1234678-HpCDF



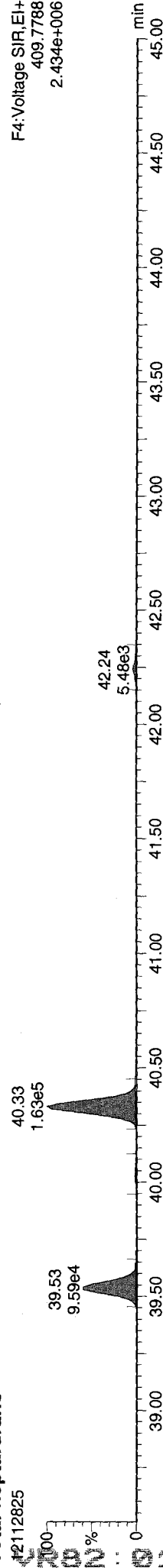
13C-1234678-HpCDF



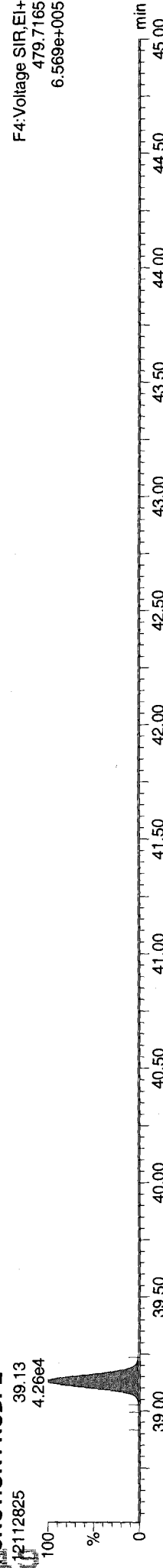
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



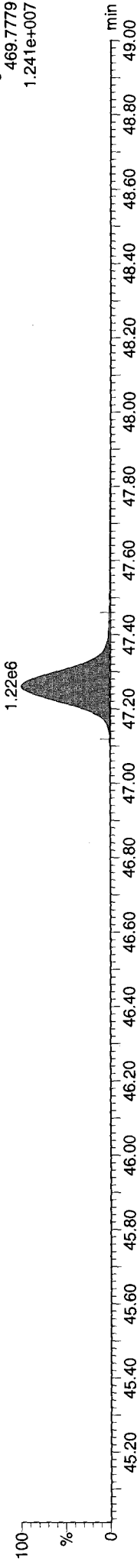
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

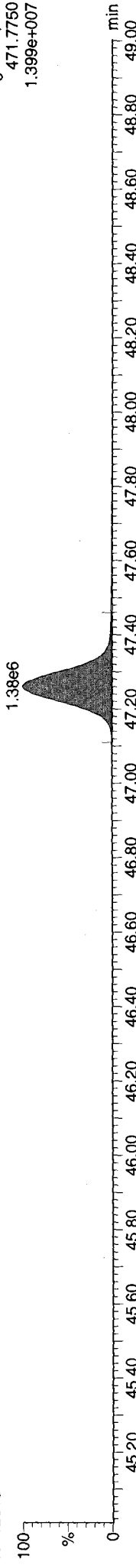
13C-OCDD

12112825



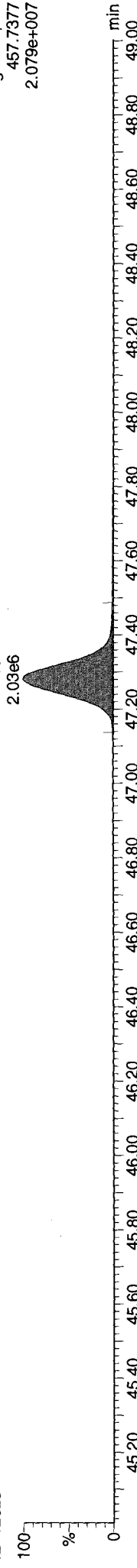
13C-OCDD

12112825



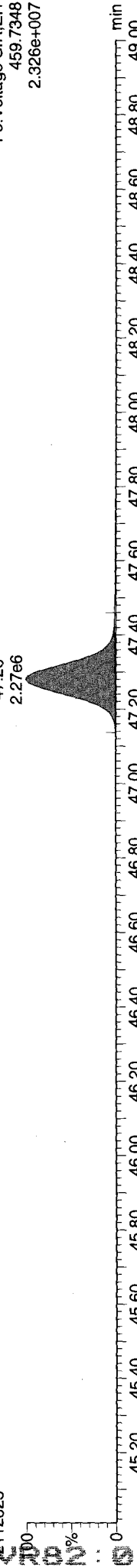
OCDD

12112825



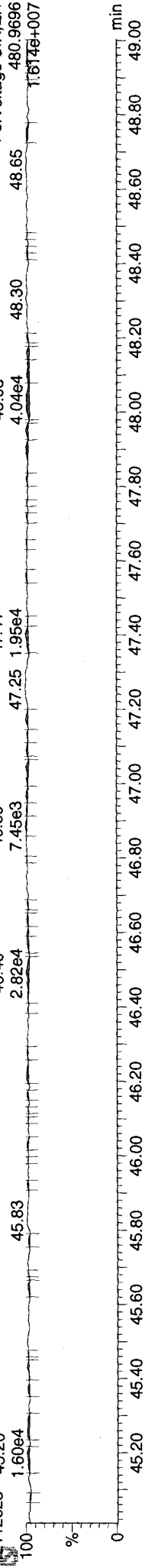
OCDD

12112825



FUNCTION5 PFK

12112825

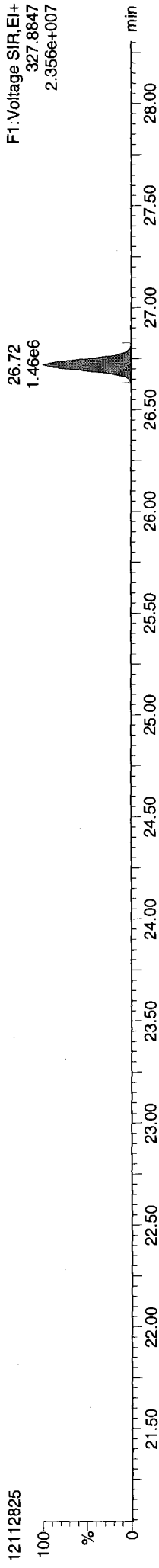


Quantify Sample Report MassLynx 4.1 SCN 714

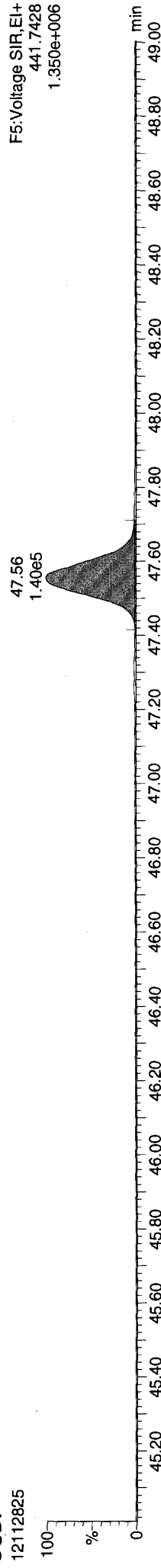
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:20:55 Pacific Standard Time

Name: 12112825, Date: 29-Nov-2012, Time: 07:07:57, ID: VR82F, Conditions: AUTOSPEC01, User: pk

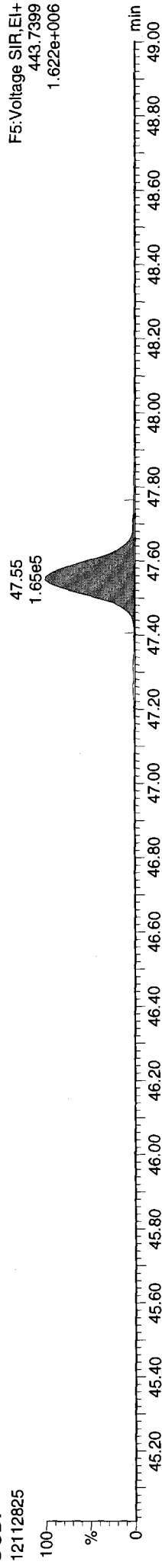
37CL-2378-TCDD



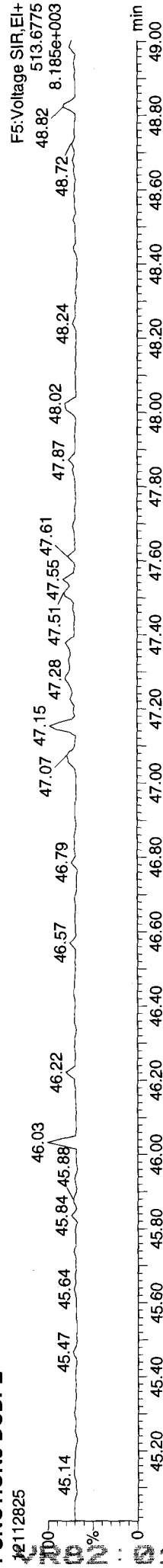
OCDF



OCDF



FUNCTION5 DCDPE



12112825

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

12/11/12

Method: P:\DIOXIN8290.PRO\MethDB\Iodioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

Peak #	Name	RU	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SM	Noise 1	Noise 2	Height	Height 2	EMPC1	EMPC2	EMPC
1	2378-TCDF	26.078	1.001	3.39e3	5.15e3	0.877	0.646	0.770	29.5	1788	1288	5.28e4	8.59e4	YES		0.264
2	12378-PeCDF	30.223	1.000	3.49e3	2.05e3	0.896	1.700	1.550	51.4	1083	1552	5.56e4	3.23e4	NO		0.235
3	23478-PeCDF	31.571	1.001	3.97e3	2.73e3	0.926	1.456	1.550	64.1	1083	1552	6.94e4	4.53e4	NO		0.280
4	123478-HxCDF	35.243	1.000	6.10e3	5.29e3	1.068	1.154	1.240	21.8	4912	1125	1.07e5	8.29e4	NO		0.528
5	234678-HxCDF	36.339	1.000	7.39e3	6.24e3	1.037	1.174	1.240	15.5	4912	1125	7.60e4	6.58e4	NO		0.673
6	123678-HxCDF	35.396	1.001	5.66e3	4.85e3	1.035	1.167	1.240	21.8	4912	1125	1.07e5	7.52e4	NO		0.483
7	123789-HxCDF	37.446	1.000	2.49e3	1.86e3	0.987	1.341	1.240	9.2	4912	1125	4.51e4	2.58e4	NO		0.207
8	1234678-HpCDF	39.540	1.000	7.57e4	7.50e4	1.232	1.008	1.050	872.5	1294	900	1.13e6	1.14e6	NO		7.372
9	1234789-HpCDF	42.247	1.000	4.50e3	4.54e3	1.215	0.992	1.050	44.3	1294	900	5.73e4	5.81e4	NO		0.573
10	OCDF	47.549	1.006	1.06e5	1.24e5	1.138	0.853	0.890	1160.6	907	1143	1.05e6	1.24e6	NO		19.918
11	2378-TCDD	26.721	1.001	9.72e2	3.19e3	1.049	0.304	0.770	15.0	1034	1940	1.55e4	5.64e4	YES		0.172
12	12378-PeCDD	31.812	1.000	5.03e3	3.60e3	0.998	1.398	1.550	52.7	1344	1062	7.08e4	5.65e4	NO		0.521
13	123478-HxCDD	36.481	1.001	6.22e3	4.99e3	0.971	1.246	1.240	58.5	1636	1197	9.57e4	7.67e4	NO		0.698
14	123678-HxCDD	36.613	1.001	1.89e4	1.54e4	0.918	1.229	1.240	173.3	1636	1197	2.84e5	2.28e5	NO		2.120
15	123789-HxCDD	37.041	1.012	1.36e4	1.01e4	0.932	1.342	1.240	130.4	1636	1197	2.13e5	1.53e5	NO		1.486
16	1234678-HpCDD	41.360	1.000	3.18e5	3.07e5	1.017	1.037	1.050	1384.4	3132	3045	4.34e6	4.21e6	NO		41.695
17	OCDD	47.271	1.000	1.48e6	1.68e6	1.008	0.882	0.890	4935.4	3051	1733	1.51e7	1.70e7	NO		309.095
18	13C-2378-TCDF	26.063	1.007	1.45e6	1.86e6	1.473	0.780	0.770	6241.7	3684	1911	2.30e7	2.97e7	NO		58.511
19	13C-12378-PeCDF	30.212	1.167	1.61e6	1.02e6	1.148	1.577	1.550	10121.5	2526	1940	2.56e7	1.62e7	NO		59.823
20	13C-23478-PeCDF	31.549	1.219	1.58e6	1.01e6	1.113	1.566	1.550	10078.5	2526	1940	2.55e7	1.63e7	NO		60.506
21	13C-123478-HxCDF	35.232	0.952	6.89e5	1.33e6	1.209	0.519	0.510	3280.5	3253	5595	1.07e7	2.03e7	NO		57.526
22	13C-123678-HxCDF	35.375	0.956	7.20e5	1.38e6	1.269	0.521	0.510	3454.1	3253	5595	1.12e7	2.15e7	NO		57.158
23	13C-234678-HxCDF	36.328	0.981	6.74e5	1.27e6	1.236	0.531	0.510	3215.0	3253	5595	1.05e7	1.95e7	NO		54.265
24	13C-123789-HxCDF	37.457	1.012	7.39e5	1.40e6	1.107	0.522	0.510	3421.8	3253	5595	1.11e7	2.12e7	NO		66.506
25	13C-1234678-HpCDF	39.529	1.068	5.14e5	1.15e6	1.051	0.449	0.440	4551.3	1686	2085	7.67e6	1.72e7	NO		54.428
26	13C-1234789-HpCDF	42.225	1.141	4.02e5	8.96e5	0.815	0.449	0.440	3040.6	1686	2085	5.13e6	1.16e7	NO		54.966
27	13C-1234-TCDD	25.884	0.000	1.69e6	2.15e6	1.000	0.787	0.770	8661.6	3060	1693	2.65e7	3.37e7	NO		100.000
28	13C-2378-TCDD	26.706	1.032	1.02e6	1.29e6	0.946	0.788	0.770	5260.0	3060	1693	1.61e7	2.03e7	NO		63.472
29	13C-12378-PeCDD	31.801	1.229	1.02e6	6.45e5	0.721	1.576	1.550	10567.3	1519	1206	1.61e7	1.03e7	NO		60.045
30	13C-123478-HxCDD	36.460	0.985	9.29e5	7.26e5	0.991	1.280	1.240	5189.9	2754	2430	1.43e7	1.13e7	NO		57.615
31	13C-123678-HxCDD	36.591	0.988	9.71e5	7.88e5	1.025	1.232	1.240	5479.1	2754	2430	1.51e7	1.23e7	NO		59.184
32	13C-1234678-HpCDD	41.338	1.117	7.53e5	7.21e5	0.866	1.043	1.050	3302.3	3176	2363	1.05e7	9.96e6	NO		58.691
33	13C-OCDD	47.253	1.276	9.57e5	1.07e6	0.769	0.892	0.890	4826.6	1993	1852	9.62e6	1.08e7	NO		91.030

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

Name	RT	FRT	Ion1Area	Ion2Area	RRF	Ratio	Prad R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC	pg
34	13C-123789-HxCDD	37.019	0.000	1.61e6	1.29e6	1.000	1.244	1.240	9111.4	2754	2430	2.51e7	2.01e7	NO		100.000
35	Total-tetrafurans			4.26e4		0.877			1788		6.39e5				5.185	3.414
36	Total-penta1			5.20e4					695		7.86e5				3.630	3.630
37	Total-pentafurans			3.32e4		0.911			1083		5.47e5				3.526	2.320
38	Total-hexafurans			1.46e5		1.032			4912		2.24e6				12.921	12.921
39	Total-heptafurans			2.04e5		1.223			1294		2.94e6				21.818	21.804
40	Total-Furans			5.83e5		1.041			1788		8.20e6				66.998	64.007
41	Total-tetradiioxins			1.18e4		1.049			1034		1.73e5				1.926	1.190
42	Total-pentadiioxins			3.53e4		0.998			1344		5.74e5				3.673	3.108
43	Total-hexadiioxins			1.34e5		0.940			1636		1.82e6				15.236	14.921
44	Total-heptadiioxins			6.00e5		1.017			3132		8.45e6				78.236	78.236
45	Total-Dioxins			1.92e7		0.985			1034		2.71e8				66.998	64.007
46	Total-TEQ			1.98e7					1034		2.79e8				133.996	128.014
47	37CL-2378-TCDD	26.721	1.032	1.54e6		1.044			1873		2.46e7				38.538	38.538
48	FUNCTION1 PFK			4.72e5					606752		1.22e7				0.000	0.000
49	FUNCTION2 PFK			1.83e5					167243		5.00e6				0.000	0.000
50	FUNCTION3 PFK			3.84e5					561454		7.08e6				0.000	0.000
51	FUNCTION4 PFK			6.51e5					286262		1.70e7				0.000	0.000
52	FUNCTION5 PFK			1.90e5					238238		6.63e6				0.000	0.000
53	FUNCTION1 HXCDPE			6.21e2					375		1.09e4				0.000	0.000
54	FUNCTION1 HPCDPE			8.45e2					794		1.49e4				0.000	0.000
55	FUNCTION2 HPCDPE			5.20e2					944		1.15e4				0.000	0.000
56	FUNCTION3 OCDPE			9.15e1					419		2.70e3				0.000	0.000
57	FUNCTION4 NCDPE			3.48e4					1044		5.61e5				0.000	0.000
58	FUNCTION5 DCDPE			0.00e0					257		0.00e0				0.000	0.000

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Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
35	Total-tetrafurans	303.9016	24.75	9462.771	0.877	0.326	0.326	0.75	0.77	NO	26.8
35	Total-tetrafurans	303.9016	24.32	5215.129	0.877	0.180	0.180	0.81	0.77	NO	21.3
35	Total-tetrafurans	303.9016	24.20	5938.551	0.877	0.205	0.205	0.79	0.77	NO	22.7
35	Total-tetrafurans	303.9016	24.09	9564.397	0.877	0.330	0.330	0.75	0.77	NO	32.3
35	Total-tetrafurans	303.9016	23.93	4174.050	0.877	0.144	0.144	0.86	0.77	NO	19.8
35	Total-tetrafurans	303.9016	23.84	7952.221	0.877	0.274	0.274	0.70	0.77	NO	26.7
35	Total-tetrafurans	303.9016	23.73	7000.631	0.877	0.242	0.242	0.80	0.77	NO	22.0
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.236	1.02	0.77	YES	22.0
35	Total-tetrafurans	303.9016	23.43	27383.120	0.877	0.945	0.945	0.76	0.77	NO	104.8
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.160	0.59	0.77	YES	19.2
35	Total-tetrafurans	303.9016	22.58	4397.136	0.877	0.152	0.152	0.83	0.77	NO	19.5
35	Total-tetrafurans	303.9016	27.53	0.000	0.877	0.000	0.068	0.48	0.77	YES	4.4
35	Total-tetrafurans	303.9016	26.32	10451.562	0.877	0.361	0.361	0.68	0.77	NO	35.7
35	Total-tetrafurans	303.9016	26.21	4790.592	0.877	0.165	0.165	0.70	0.77	NO	17.0
1	2378-TCDF	303.9016	26.08	8473.446	0.877	0.000	0.264	0.65	0.77	YES	29.5
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.080	0.51	0.77	YES	11.6
35	Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.075	1.41	0.77	YES	14.5
35	Total-tetrafurans	303.9016	25.59	2613.725	0.877	0.090	0.090	0.73	0.77	NO	8.6
35	Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.119	0.99	0.77	YES	15.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.205	0.64	0.77	YES	20.0
35	Total-tetrafurans	303.9016	25.00	0.000	0.877	0.000	0.421	0.61	0.77	YES	41.4
35	Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.143	0.59	0.77	YES	18.6

PP

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
36	Total-penta1	339.8597	27.50	86870.172		3.630	3.630	1.49	1.55	NO	1130.4

PF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
37	Total-pentafurans	339.8597	28.85	1262.667	0.911	0.053	0.053	1.64	1.55	NO	17.1
37	Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.198	1.15	1.55	YES	42.0
37	Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.151	1.24	1.55	YES	34.5
37	Total-pentafurans	339.8597	30.54	1853.162	0.911	0.078	0.078	1.72	1.55	NO	18.9
37	Total-pentafurans	339.8597	30.42	5753.327	0.911	0.242	0.242	1.45	1.55	NO	49.5
2	12378-PeCDF	339.8597	30.22	5543.886	0.896	0.235	0.235	1.70	1.55	NO	51.4
37	Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.468	1.28	1.55	YES	78.6
37	Total-pentafurans	339.8597	29.75	1771.457	0.911	0.075	0.075	1.78	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.071	1.91	1.55	YES	13.7
37	Total-pentafurans	339.8597	29.15	20955.340	0.911	0.881	0.881	1.39	1.55	NO	163.2
37	Total-pentafurans	339.8597	29.08	11313.180	0.911	0.476	0.476	1.64	1.55	NO	119.9
37	Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.305	1.31	1.55	YES	55.0
37	Total-pentafurans	339.8597	31.68	0.000	0.911	0.000	0.012	1.01	1.55	YES	3.6
3	23478-PeCDF	339.8597	31.57	6704.748	0.926	0.280	0.280	1.46	1.55	NO	64.1

VR82: 01124

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
38	Total-hexafurans	373.8208	34.60	94633.480	1.032		4.475	4.475	1.16	1.24	NO	165.0
38	Total-hexafurans	373.8208	34.29	2376.082	1.032		0.112	0.112	1.10	1.24	NO	4.2
38	Total-hexafurans	373.8208	33.73	100202.567	1.032		4.739	4.739	1.11	1.24	NO	157.1
38	Total-hexafurans	373.8208	33.51	31763.023	1.032		1.502	1.502	1.14	1.24	NO	53.0
7	123789-HxCDF	373.8208	37.45	4352.493	0.987		0.207	0.207	1.34	1.24	NO	9.2
5	234678-HxCDF	373.8208	36.34	13574.642	1.037		0.673	0.673	1.17	1.24	NO	15.5
6	123678-HxCDF	373.8208	35.40	10505.863	1.035		0.483	0.483	1.17	1.24	NO	21.8
4	123478-HxCDF	373.8208	35.24	11384.559	1.068		0.528	0.528	1.15	1.24	NO	21.8
38	Total-hexafurans	373.8208	35.09	4250.831	1.032		0.201	0.201	1.19	1.24	NO	7.4

HPF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
9	1234789-HpCDF	407.7818	42.25	9040.576	1.215		0.573	0.573	0.99	1.05	NO	44.3
39	Total-heptafurans	407.7818	40.33	246573.360	1.223		13.627	13.627	0.97	1.05	NO	1331.2
39	Total-heptafurans	407.7818	40.03	4201.547	1.223		0.232	0.232	1.05	1.05	NO	24.9
39	Total-heptafurans	407.7818	39.69	0.000	1.223		0.000	0.014	2.30	1.05	YES	6.1
8	1234678-HpCDF	407.7818	39.54	150687.157	1.232		7.372	7.372	1.01	1.05	NO	872.5

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M	pg	EMPC	1 st Rati.	1 st Rati.	1 st R.	SN
1	35 Total-tetrafurans	303.9016	24.75	9462.771	0.877	0.326	0.326	0.75	0.77	NO	26.8
2	35 Total-tetrafurans	303.9016	24.32	5215.129	0.877	0.180	0.180	0.81	0.77	NO	21.3
3	35 Total-tetrafurans	303.9016	24.20	5938.551	0.877	0.205	0.205	0.79	0.77	NO	22.7
4	35 Total-tetrafurans	303.9016	24.09	9564.397	0.877	0.330	0.330	0.75	0.77	NO	32.3
5	35 Total-tetrafurans	303.9016	23.93	4174.050	0.877	0.144	0.144	0.86	0.77	NO	19.8
6	35 Total-tetrafurans	303.9016	23.84	7952.221	0.877	0.274	0.274	0.70	0.77	NO	26.7
7	35 Total-tetrafurans	303.9016	23.73	7000.631	0.877	0.242	0.242	0.80	0.77	NO	22.0
8	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.236	1.02	0.77	YES	22.0
9	35 Total-tetrafurans	303.9016	23.43	27383.120	0.877	0.945	0.945	0.76	0.77	NO	104.8
10	35 Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.160	0.59	0.77	YES	19.2
11	35 Total-tetrafurans	303.9016	22.58	4397.136	0.877	0.152	0.152	0.83	0.77	NO	19.5
12	35 Total-tetrafurans	303.9016	27.53	0.000	0.877	0.000	0.068	0.48	0.77	YES	4.4
13	35 Total-tetrafurans	303.9016	26.32	10451.562	0.877	0.361	0.361	0.68	0.77	NO	35.7
14	35 Total-tetrafurans	303.9016	26.21	4790.592	0.877	0.165	0.165	0.70	0.77	NO	17.0
15	1 2378-TCDF	303.9016	26.08	8473.446	0.877	0.000	0.264	0.65	0.77	YES	29.5
16	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.080	0.51	0.77	YES	11.6
17	35 Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.075	1.41	0.77	YES	14.5
18	35 Total-tetrafurans	303.9016	25.59	2613.725	0.877	0.090	0.090	0.73	0.77	NO	8.6
19	35 Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.119	0.99	0.77	YES	15.9
20	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.205	0.64	0.77	YES	20.0
21	35 Total-tetrafurans	303.9016	25.00	0.000	0.877	0.000	0.421	0.61	0.77	YES	41.4
22	35 Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.143	0.59	0.77	YES	18.6
23	37 Total-pentafurans	339.8597	28.85	1262.667	0.911	0.053	0.053	1.64	1.55	NO	17.1
24	37 Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.198	1.15	1.55	YES	42.0
25	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.151	1.24	1.55	YES	34.5
26	37 Total-pentafurans	339.8597	30.54	1853.162	0.911	0.078	0.078	1.72	1.55	NO	18.9
27	37 Total-pentafurans	339.8597	30.42	5753.327	0.911	0.242	0.242	1.45	1.55	NO	49.5
28	2 12378-PeCDF	339.8597	30.22	5543.886	0.896	0.235	0.235	1.70	1.55	NO	51.4
29	37 Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.468	1.28	1.55	YES	78.6
30	37 Total-pentafurans	339.8597	29.75	1771.457	0.911	0.075	0.075	1.78	1.55	NO	20.8
31	37 Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.071	1.91	1.55	YES	13.7
32	37 Total-pentafurans	339.8597	29.15	20955.340	0.911	0.881	0.881	1.39	1.55	NO	163.2
33	37 Total-pentafurans	339.8597	29.08	11313.180	0.911	0.476	0.476	1.64	1.55	NO	119.9
34	37 Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.305	1.31	1.55	YES	55.0
35	37 Total-pentafurans	339.8597	31.68	0.000	0.911	0.000	0.012	1.01	1.55	YES	3.6
36	3 23478-PeCDF	339.8597	31.57	6704.748	0.926	0.280	0.280	1.46	1.55	NO	64.1
37	38 Total-hexafurans	373.8208	34.60	94633.480	1.032	4.475	4.475	1.16	1.24	NO	165.0
38	38 Total-hexafurans	373.8208	34.29	2376.082	1.032	0.112	0.112	1.10	1.24	NO	4.2
39	38 Total-hexafurans	373.8208	33.73	100202.567	1.032	4.739	4.739	1.11	1.24	NO	157.1
40	38 Total-hexafurans	373.8208	33.51	31763.023	1.032	1.502	1.502	1.14	1.24	NO	53.0
41	7 123789-HxCDF	373.8208	37.45	4352.493	0.987	0.207	0.207	1.34	1.24	NO	9.2
42	5 234678-HxCDF	373.8208	36.34	13574.642	1.037	0.673	0.673	1.17	1.24	NO	15.5
43	6 123678-HxCDF	373.8208	35.40	10505.863	1.035	0.483	0.483	1.17	1.24	NO	21.8
44	4 123478-HxCDF	373.8208	35.24	11384.559	1.068	0.528	0.528	1.15	1.24	NO	21.8
45	38 Total-hexafurans	373.8208	35.09	4250.831	1.032	0.201	0.201	1.19	1.24	NO	7.4
46	9 1234789-HpCDF	407.7818	42.25	9040.576	1.215	0.573	0.573	0.99	1.05	NO	44.3
47	39 Total-heptafurans	407.7818	40.33	246573.360	1.223	13.627	13.627	0.97	1.05	NO	1331.2
48	39 Total-heptafurans	407.7818	40.03	4201.547	1.223	0.232	0.232	1.05	1.05	NO	24.9
49	39 Total-heptafurans	407.7818	39.69	0.000	1.223	0.000	0.014	2.30	1.05	YES	6.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
8	1234678-HpCDF	407.7818	39.54	150687.157	1.232	7.372	7.372	1.01	1.05	NO	872.5
10	OCDF	441.7428	47.55	230039.368	1.138	19.918	19.918	0.85	0.89	NO	1160.6
36	Total-penta1	339.8597	27.50	86870.172		3.630	3.630	1.49	1.55	NO	1130.4

TD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
41	Total-tetradiioxins	319.8965	25.35	4126.369	1.049	0.171	0.171	0.69	0.77	NO	25.4
41	Total-tetradiioxins	319.8965	25.06	0.000	1.049	0.000	0.139	0.65	0.77	YES	20.8
41	Total-tetradiioxins	319.8965	24.85	0.000	1.049	0.000	0.198	0.97	0.77	YES	36.8
41	Total-tetradiioxins	319.8965	24.34	2259.664	1.049	0.093	0.093	0.67	0.77	NO	12.6
41	Total-tetradiioxins	319.8965	24.14	0.000	1.049	0.000	0.259	0.98	0.77	YES	51.0
41	Total-tetradiioxins	319.8965	23.87	11868.652	1.049	0.491	0.491	0.71	0.77	NO	74.2
41	Total-tetradiioxins	319.8965	26.85	1975.482	1.049	0.082	0.082	0.69	0.77	NO	10.6
11	2378-TCDD	319.8965	26.72	4163.923	1.049	0.000	0.092	0.30	0.77	YES	15.0
41	Total-tetradiioxins	319.8965	26.36	2867.069	1.049	0.119	0.119	0.73	0.77	NO	14.6
41	Total-tetradiioxins	319.8965	26.05	0.000	1.049	0.000	0.014	2.72	0.77	YES	6.4
41	Total-tetradiioxins	319.8965	25.91	4084.990	1.049	0.169	0.169	0.68	0.77	NO	21.7
41	Total-tetradiioxins	319.8965	25.72	1571.130	1.049	0.065	0.065	0.70	0.77	NO	8.3
41	Total-tetradiioxins	319.8965	25.61	0.000	1.049	0.000	0.035	0.62	0.77	YES	5.3

PD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
42	Total-pentadiioxins	355.8546	29.62	4025.475	0.998	0.243	0.243	1.73	1.55	NO	31.4
42	Total-pentadiioxins	355.8546	29.15	9331.564	0.998	0.563	0.563	1.74	1.55	NO	84.8
42	Total-pentadiioxins	355.8546	29.10	0.000	0.998	0.000	0.414	1.65	1.55	NO	60.4
42	Total-pentadiioxins	355.8546	32.23	2140.519	0.998	0.129	0.129	1.44	1.55	NO	15.6
12	12378-PeCDD	355.8546	31.81	8632.459	0.998	0.521	0.521	1.40	1.55	NO	52.7
42	Total-pentadiioxins	355.8546	31.14	0.000	0.998	0.000	0.151	1.97	1.55	YES	20.4
42	Total-pentadiioxins	355.8546	30.76	6117.842	0.998	0.369	0.369	1.38	1.55	NO	25.5
42	Total-pentadiioxins	355.8546	30.57	6688.603	0.998	0.404	0.404	1.60	1.55	NO	51.0
42	Total-pentadiioxins	355.8546	30.44	6227.693	0.998	0.376	0.376	1.38	1.55	NO	47.1
42	Total-pentadiioxins	355.8546	30.23	8346.351	0.998	0.504	0.504	1.50	1.55	NO	59.0

HD

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
43	Total-hexadiioxins	389.8157	35.64	3680.271	0.940	0.229	0.229	1.20	1.24	NO	20.7
43	Total-hexadiioxins	389.8157	35.52	84813.083	0.940	5.283	5.283	1.26	1.24	NO	283.9
43	Total-hexadiioxins	389.8157	35.12	24767.773	0.940	1.543	1.543	1.28	1.24	NO	130.5
43	Total-hexadiioxins	389.8157	34.32	57201.147	0.940	3.563	3.563	1.25	1.24	NO	314.9
43	Total-hexadiioxins	389.8157	34.10	0.000	0.940	0.000	0.024	0.69	1.24	YES	2.9
15	123789-HxCDD	389.8157	37.04	23646.378	0.932	1.486	1.486	1.34	1.24	NO	130.4
43	Total-hexadiioxins	389.8157	36.79	0.000	0.940	0.000	0.291	0.93	1.24	YES	26.5
14	123678-HxCDD	389.8157	36.61	34234.303	0.918	2.120	2.120	1.23	1.24	NO	173.3
13	123478-HxCDD	389.8157	36.48	11216.437	0.971	0.698	0.698	1.25	1.24	NO	58.5

VR82:01127

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

HPD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 st Rat.	1 st Rat.	1 st R...	S/N
16	1234678-HpCDD	423.7766	41.36	625095.032	1.017	41.695	41.695	1.04	1.05	NO	1384.4
44	Total-heptadioxins	423.7766	40.09	547829.188	1.017	36.541	36.541	1.06	1.05	NO	1314.9

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs. Resp	RRF M.	ug	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
35	Total-tetrafurans	303.9016	24.75	9462.771	0.877	0.326	0.326	0.75	0.77	NO	26.8
35	Total-tetrafurans	303.9016	24.32	5215.129	0.877	0.180	0.180	0.81	0.77	NO	21.3
35	Total-tetrafurans	303.9016	24.20	5938.551	0.877	0.205	0.205	0.79	0.77	NO	22.7
35	Total-tetrafurans	303.9016	24.09	9564.397	0.877	0.330	0.330	0.75	0.77	NO	32.3
35	Total-tetrafurans	303.9016	23.93	4174.050	0.877	0.144	0.144	0.86	0.77	NO	19.8
35	Total-tetrafurans	303.9016	23.84	7952.221	0.877	0.274	0.274	0.70	0.77	NO	26.7
35	Total-tetrafurans	303.9016	23.73	7000.631	0.877	0.242	0.242	0.80	0.77	NO	22.0
35	Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.236	1.02	0.77	YES	22.0
35	Total-tetrafurans	303.9016	23.43	27383.120	0.877	0.945	0.945	0.76	0.77	NO	104.8
35	Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.160	0.59	0.77	YES	19.2
35	Total-tetrafurans	303.9016	22.58	4397.136	0.877	0.152	0.152	0.83	0.77	NO	19.5
35	Total-tetrafurans	303.9016	27.53	0.000	0.877	0.000	0.068	0.48	0.77	YES	4.4
35	Total-tetrafurans	303.9016	26.32	10451.562	0.877	0.361	0.361	0.68	0.77	NO	35.7
35	Total-tetrafurans	303.9016	26.21	4790.592	0.877	0.165	0.165	0.70	0.77	NO	17.0
1	2378-TCDF	303.9016	26.08	8473.446	0.877	0.292	0.264	0.65	0.77	YES	29.5
35	Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.080	0.51	0.77	YES	11.6
35	Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.075	1.41	0.77	YES	14.5
35	Total-tetrafurans	303.9016	25.59	2613.725	0.877	0.090	0.090	0.73	0.77	NO	8.6
35	Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.119	0.99	0.77	YES	15.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.205	0.64	0.77	YES	20.0
35	Total-tetrafurans	303.9016	25.00	0.000	0.877	0.000	0.421	0.61	0.77	YES	41.4
35	Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.143	0.59	0.77	YES	18.6
37	Total-pentafurans	339.8597	28.85	1262.667	0.911	0.053	0.053	1.64	1.55	NO	17.1
37	Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.198	1.15	1.55	YES	42.0
37	Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.151	1.24	1.55	YES	34.5
37	Total-pentafurans	339.8597	30.54	1853.162	0.911	0.078	0.078	1.72	1.55	NO	18.9
37	Total-pentafurans	339.8597	30.42	5753.327	0.911	0.242	0.242	1.45	1.55	NO	49.5
2	12378-PeCDF	339.8597	30.22	5543.886	0.896	0.235	0.235	1.70	1.55	NO	51.4
37	Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.468	1.28	1.55	YES	78.6
37	Total-pentafurans	339.8597	29.75	1771.457	0.911	0.075	0.075	1.78	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.071	1.91	1.55	YES	13.7
37	Total-pentafurans	339.8597	29.15	20955.340	0.911	0.881	0.881	1.39	1.55	NO	163.2
37	Total-pentafurans	339.8597	29.08	11313.180	0.911	0.476	0.476	1.64	1.55	NO	119.9
37	Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.305	1.31	1.55	YES	55.0
37	Total-pentafurans	339.8597	31.68	0.000	0.911	0.000	0.012	1.01	1.55	YES	3.6
3	23478-PeCDF	339.8597	31.57	6704.748	0.926	0.280	0.280	1.46	1.55	NO	64.1
38	Total-hexafurans	373.8208	34.60	94633.480	1.032	4.475	4.475	1.16	1.24	NO	165.0
38	Total-hexafurans	373.8208	34.29	2376.082	1.032	0.112	0.112	1.10	1.24	NO	4.2
38	Total-hexafurans	373.8208	33.73	100202.567	1.032	4.739	4.739	1.11	1.24	NO	157.1
38	Total-hexafurans	373.8208	33.51	31763.023	1.032	1.502	1.502	1.14	1.24	NO	53.0
7	123789-HxCDF	373.8208	37.45	4352.493	0.987	0.207	0.207	1.34	1.24	NO	9.2
5	234678-HxCDF	373.8208	36.34	13574.642	1.037	0.673	0.673	1.17	1.24	NO	15.5
6	123678-HxCDF	373.8208	35.40	10505.863	1.035	0.483	0.483	1.17	1.24	NO	21.8
4	123478-HxCDF	373.8208	35.24	11384.559	1.068	0.528	0.528	1.15	1.24	NO	21.8
38	Total-hexafurans	373.8208	35.09	4250.831	1.032	0.201	0.201	1.19	1.24	NO	7.4
9	1234789-HpCDF	407.7818	42.25	9040.576	1.215	0.573	0.573	0.99	1.05	NO	44.3
39	Total-heptafurans	407.7818	40.33	246573.360	1.223	13.627	13.627	0.97	1.05	NO	1331.2
39	Total-heptafurans	407.7818	40.03	4201.547	1.223	0.232	0.232	1.05	1.05	NO	24.9
39	Total-heptafurans	407.7818	39.69	0.000	1.223	0.000	0.014	2.30	1.05	YES	6.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
50	8 1234678-HpCDF	407.7818	39.54	150687.157	1.232	7.372	7.372	1.01	1.05	NO	872.5
51	10 OCDF	441.7428	47.55	230039.368	1.138	19.918	19.918	0.85	0.89	NO	1160.6
52	36 Total-penta1	339.8597	27.50	86870.172		3.630	3.630	1.49	1.55	NO	1130.4

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

	f Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	SN
1	35 Total-tetrafurans	303.9016	24.75	9462.771	0.877	0.326	0.326	0.75	0.77	NO	26.8
2	35 Total-tetrafurans	303.9016	24.32	5215.129	0.877	0.180	0.180	0.81	0.77	NO	21.3
3	35 Total-tetrafurans	303.9016	24.20	5938.551	0.877	0.205	0.205	0.79	0.77	NO	22.7
4	35 Total-tetrafurans	303.9016	24.09	9564.397	0.877	0.330	0.330	0.75	0.77	NO	32.3
5	35 Total-tetrafurans	303.9016	23.93	4174.050	0.877	0.144	0.144	0.86	0.77	NO	19.8
6	35 Total-tetrafurans	303.9016	23.84	7952.221	0.877	0.274	0.274	0.70	0.77	NO	26.7
7	35 Total-tetrafurans	303.9016	23.73	7000.631	0.877	0.242	0.242	0.80	0.77	NO	22.0
8	35 Total-tetrafurans	303.9016	23.61	0.000	0.877	0.000	0.236	1.02	0.77	YES	22.0
9	35 Total-tetrafurans	303.9016	23.43	27383.120	0.877	0.945	0.945	0.76	0.77	NO	104.8
10	35 Total-tetrafurans	303.9016	22.85	0.000	0.877	0.000	0.160	0.59	0.77	YES	19.2
11	35 Total-tetrafurans	303.9016	22.58	4397.136	0.877	0.152	0.152	0.83	0.77	NO	19.5
12	35 Total-tetrafurans	303.9016	27.53	0.000	0.877	0.000	0.068	0.48	0.77	YES	4.4
13	35 Total-tetrafurans	303.9016	26.32	10451.562	0.877	0.361	0.361	0.68	0.77	NO	35.7
14	35 Total-tetrafurans	303.9016	26.21	4790.592	0.877	0.165	0.165	0.70	0.77	NO	17.0
15	1 2378-TCDF	303.9016	26.08	8473.446	0.877	0.000	0.264	0.65	0.77	YES	29.5
16	35 Total-tetrafurans	303.9016	25.90	0.000	0.877	0.000	0.080	0.51	0.77	YES	11.6
17	35 Total-tetrafurans	303.9016	25.84	0.000	0.877	0.000	0.075	1.41	0.77	YES	14.5
18	35 Total-tetrafurans	303.9016	25.59	2613.725	0.877	0.090	0.090	0.73	0.77	NO	8.6
19	35 Total-tetrafurans	303.9016	25.39	0.000	0.877	0.000	0.119	0.99	0.77	YES	15.9
20	35 Total-tetrafurans	303.9016	25.17	0.000	0.877	0.000	0.205	0.64	0.77	YES	20.0
21	35 Total-tetrafurans	303.9016	25.00	0.000	0.877	0.000	0.421	0.61	0.77	YES	41.4
22	35 Total-tetrafurans	303.9016	24.84	0.000	0.877	0.000	0.143	0.59	0.77	YES	18.6
23	37 Total-pentafurans	339.8597	28.85	1262.667	0.911	0.053	0.053	1.64	1.55	NO	17.1
24	37 Total-pentafurans	339.8597	31.42	0.000	0.911	0.000	0.198	1.15	1.55	YES	42.0
25	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.151	1.24	1.55	YES	34.5
26	37 Total-pentafurans	339.8597	30.54	1853.162	0.911	0.078	0.078	1.72	1.55	NO	18.9
27	37 Total-pentafurans	339.8597	30.42	5753.327	0.911	0.242	0.242	1.45	1.55	NO	49.5
28	2 12378-PeCDF	339.8597	30.22	5543.886	0.896	0.235	0.235	1.70	1.55	NO	51.4
29	37 Total-pentafurans	339.8597	29.86	0.000	0.911	0.000	0.468	1.28	1.55	YES	78.6
30	37 Total-pentafurans	339.8597	29.75	1771.457	0.911	0.075	0.075	1.78	1.55	NO	20.8
31	37 Total-pentafurans	339.8597	29.65	0.000	0.911	0.000	0.071	1.91	1.55	YES	13.7
32	37 Total-pentafurans	339.8597	29.15	20955.340	0.911	0.881	0.881	1.39	1.55	NO	163.2
33	37 Total-pentafurans	339.8597	29.08	11313.180	0.911	0.476	0.476	1.64	1.55	NO	119.9
34	37 Total-pentafurans	339.8597	28.96	0.000	0.911	0.000	0.305	1.31	1.55	YES	55.0
35	37 Total-pentafurans	339.8597	31.68	0.000	0.911	0.000	0.012	1.01	1.55	YES	3.6
36	3 23478-PeCDF	339.8597	31.57	6704.748	0.926	0.280	0.280	1.46	1.55	NO	64.1
37	38 Total-hexafurans	373.8208	34.60	94633.480	1.032	4.475	4.475	1.16	1.24	NO	165.0
38	38 Total-hexafurans	373.8208	34.29	2376.082	1.032	0.112	0.112	1.10	1.24	NO	4.2
39	38 Total-hexafurans	373.8208	33.73	100202.567	1.032	4.739	4.739	1.11	1.24	NO	157.1
40	38 Total-hexafurans	373.8208	33.51	31763.023	1.032	1.502	1.502	1.14	1.24	NO	53.0
41	7 123789-HxCDF	373.8208	37.45	4352.493	0.987	0.207	0.207	1.34	1.24	NO	9.2
42	5 234678-HxCDF	373.8208	36.34	13574.642	1.037	0.673	0.673	1.17	1.24	NO	15.5
43	6 123678-HxCDF	373.8208	35.40	10505.863	1.035	0.483	0.483	1.17	1.24	NO	21.8
44	4 123478-HxCDF	373.8208	35.24	11384.559	1.068	0.528	0.528	1.15	1.24	NO	21.8
45	38 Total-hexafurans	373.8208	35.09	4250.831	1.032	0.201	0.201	1.19	1.24	NO	7.4
46	9 1234789-HpCDF	407.7818	42.25	9040.576	1.215	0.573	0.573	0.99	1.05	NO	44.3
47	39 Total-heptafurans	407.7818	40.33	246573.360	1.223	13.627	13.627	0.97	1.05	NO	1331.2
48	39 Total-heptafurans	407.7818	40.03	4201.547	1.223	0.232	0.232	1.05	1.05	NO	24.9
49	39 Total-heptafurans	407.7818	39.69	0.000	1.223	0.000	0.014	2.30	1.05	YES	6.1

VR82: 01131

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF	M	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
8	1234678-HpCDF	407.7818	39.54	150687.157	1.232		7.372	7.372	1.01	1.05	NO	872.5
10	OCDF	441.7428	47.55	230039.368	1.138		19.918	19.918	0.85	0.89	NO	1160.6
36	Total-penta1	339.8597	27.50	86870.172			3.630	3.630	1.49	1.55	NO	1130.4
35	Total-tetrafurans	303.9016	24.75	9462.771	0.877		0.326	0.326	0.75	0.77	NO	26.8
35	Total-tetrafurans	303.9016	24.32	5215.129	0.877		0.180	0.180	0.81	0.77	NO	21.3
35	Total-tetrafurans	303.9016	24.20	5938.551	0.877		0.205	0.205	0.79	0.77	NO	22.7
35	Total-tetrafurans	303.9016	24.09	9564.397	0.877		0.330	0.330	0.75	0.77	NO	32.3
35	Total-tetrafurans	303.9016	23.93	4174.050	0.877		0.144	0.144	0.86	0.77	NO	19.8
35	Total-tetrafurans	303.9016	23.84	7952.221	0.877		0.274	0.274	0.70	0.77	NO	26.7
35	Total-tetrafurans	303.9016	23.73	7000.631	0.877		0.242	0.242	0.80	0.77	NO	22.0
35	Total-tetrafurans	303.9016	23.61	0.000	0.877		0.000	0.236	1.02	0.77	YES	22.0
35	Total-tetrafurans	303.9016	23.43	27383.120	0.877		0.945	0.945	0.76	0.77	NO	104.8
35	Total-tetrafurans	303.9016	22.85	0.000	0.877		0.000	0.160	0.59	0.77	YES	19.2
35	Total-tetrafurans	303.9016	22.58	4397.136	0.877		0.152	0.152	0.83	0.77	NO	19.5
35	Total-tetrafurans	303.9016	27.53	0.000	0.877		0.000	0.068	0.48	0.77	YES	4.4
35	Total-tetrafurans	303.9016	26.32	10451.562	0.877		0.361	0.361	0.68	0.77	NO	35.7
35	Total-tetrafurans	303.9016	26.21	4790.592	0.877		0.165	0.165	0.70	0.77	NO	17.0
1	2378-TCDF	303.9016	26.08	8473.446	0.877		0.000	0.264	0.65	0.77	YES	29.5
35	Total-tetrafurans	303.9016	25.90	0.000	0.877		0.000	0.080	0.51	0.77	YES	11.6
35	Total-tetrafurans	303.9016	25.84	0.000	0.877		0.000	0.075	1.41	0.77	YES	14.5
35	Total-tetrafurans	303.9016	25.59	2613.725	0.877		0.090	0.090	0.73	0.77	NO	8.6
35	Total-tetrafurans	303.9016	25.39	0.000	0.877		0.000	0.119	0.99	0.77	YES	15.9
35	Total-tetrafurans	303.9016	25.17	0.000	0.877		0.000	0.205	0.64	0.77	YES	20.0
35	Total-tetrafurans	303.9016	25.00	0.000	0.877		0.000	0.421	0.61	0.77	YES	41.4
35	Total-tetrafurans	303.9016	24.84	0.000	0.877		0.000	0.143	0.59	0.77	YES	18.6
37	Total-pentafurans	339.8597	28.85	1262.667	0.911		0.053	0.053	1.64	1.55	NO	17.1
37	Total-pentafurans	339.8597	31.42	0.000	0.911		0.000	0.198	1.15	1.55	YES	42.0
37	Total-pentafurans	339.8597	31.30	0.000	0.911		0.000	0.151	1.24	1.55	YES	34.5
37	Total-pentafurans	339.8597	30.54	1853.162	0.911		0.078	0.078	1.72	1.55	NO	18.9
37	Total-pentafurans	339.8597	30.42	5753.327	0.911		0.242	0.242	1.45	1.55	NO	49.5
2	12378-PeCDF	339.8597	30.22	5543.886	0.896		0.235	0.235	1.70	1.55	NO	51.4
37	Total-pentafurans	339.8597	29.86	0.000	0.911		0.000	0.468	1.28	1.55	YES	78.6
37	Total-pentafurans	339.8597	29.75	1771.457	0.911		0.075	0.075	1.78	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.65	0.000	0.911		0.000	0.071	1.91	1.55	YES	13.7
37	Total-pentafurans	339.8597	29.15	20955.340	0.911		0.881	0.881	1.39	1.55	NO	163.2
37	Total-pentafurans	339.8597	29.08	11313.180	0.911		0.476	0.476	1.64	1.55	NO	119.9
37	Total-pentafurans	339.8597	28.96	0.000	0.911		0.000	0.305	1.31	1.55	YES	55.0
37	Total-pentafurans	339.8597	31.68	0.000	0.911		0.000	0.012	1.01	1.55	YES	3.6
3	23478-PeCDF	339.8597	31.57	6704.748	0.926		0.280	0.280	1.46	1.55	NO	64.1
38	Total-hexafurans	373.8208	34.60	94633.480	1.032		4.475	4.475	1.16	1.24	NO	165.0
38	Total-hexafurans	373.8208	34.29	2376.082	1.032		0.112	0.112	1.10	1.24	NO	4.2
38	Total-hexafurans	373.8208	33.73	100202.567	1.032		4.739	4.739	1.11	1.24	NO	157.1
38	Total-hexafurans	373.8208	33.51	31763.023	1.032		1.502	1.502	1.14	1.24	NO	53.0
7	123789-HxCDF	373.8208	37.45	4352.493	0.987		0.207	0.207	1.34	1.24	NO	9.2
5	234678-HxCDF	373.8208	36.34	13574.642	1.037		0.673	0.673	1.17	1.24	NO	15.5
6	123678-HxCDF	373.8208	35.40	10505.863	1.035		0.483	0.483	1.17	1.24	NO	21.8
4	123478-HxCDF	373.8208	35.24	11384.559	1.068		0.528	0.528	1.15	1.24	NO	21.8
38	Total-hexafurans	373.8208	35.09	4250.831	1.032		0.201	0.201	1.19	1.24	NO	7.4
9	1234789-HpCDF	407.7818	42.25	9040.576	1.215		0.573	0.573	0.99	1.05	NO	44.3

VR02: 01132

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rat..	1° Rat..	1° R..	S/N
95	39 Total-heptafurans	407.7818	40.33	246573.360	1.223	13.627	13.627	0.97	1.05	NO	1331.2
100	39 Total-heptafurans	407.7818	40.03	4201.547	1.223	0.232	0.232	1.05	1.05	NO	24.9
101	39 Total-heptafurans	407.7818	39.69	0.000	1.223	0.000	0.014	2.30	1.05	YES	6.1
102	8 1234678-HpCDF	407.7818	39.54	150687.157	1.232	7.372	7.372	1.01	1.05	NO	872.5
103	10 OCDF	441.7428	47.55	230039.368	1.138	19.918	19.918	0.85	0.89	NO	1160.6
104	36 Total-penta1	339.8597	27.50	86870.172		3.630	3.630	1.49	1.55	NO	1130.4

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1° Rat..	1° Rat..	1° R..	S/N
1	48 FUNCTION1 PFK	330.9792	27.26	0.000							1.0
2	48 FUNCTION1 PFK	330.9792	27.12	0.000							0.9
3	48 FUNCTION1 PFK	330.9792	26.41	0.000							1.0
4	48 FUNCTION1 PFK	330.9792	26.32	0.000							1.4
5	48 FUNCTION1 PFK	330.9792	26.26	0.000							1.8
6	48 FUNCTION1 PFK	330.9792	26.15	0.000							1.1
7	48 FUNCTION1 PFK	330.9792	25.81	0.000							1.9
8	48 FUNCTION1 PFK	330.9792	25.09	0.000							0.4
9	48 FUNCTION1 PFK	330.9792	24.99	0.000							0.6
10	48 FUNCTION1 PFK	330.9792	24.91	0.000							1.6
11	48 FUNCTION1 PFK	330.9792	24.32	0.000							1.6
12	48 FUNCTION1 PFK	330.9792	23.76	0.000							0.7
13	48 FUNCTION1 PFK	330.9792	23.51	0.000							1.1
14	48 FUNCTION1 PFK	330.9792	22.21	0.000							0.9
15	48 FUNCTION1 PFK	330.9792	22.12	0.000							0.5
16	48 FUNCTION1 PFK	330.9792	21.75	0.000							0.8
17	48 FUNCTION1 PFK	330.9792	27.98	0.000							1.0
18	48 FUNCTION1 PFK	330.9792	27.48	0.000							0.6
19	48 FUNCTION1 PFK	330.9792	27.32	0.000							1.4

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	49 FUNCTION2 PFK	366.9792	31.32	0.000		0.000					1.6
2	49 FUNCTION2 PFK	366.9792	31.12	0.000		0.000					1.3
3	49 FUNCTION2 PFK	366.9792	30.69	0.000		0.000					1.1
4	49 FUNCTION2 PFK	366.9792	30.65	0.000		0.000					1.1
5	49 FUNCTION2 PFK	366.9792	30.38	0.000		0.000					1.5
6	49 FUNCTION2 PFK	366.9792	30.16	0.000		0.000					1.0
7	49 FUNCTION2 PFK	366.9792	29.77	0.000		0.000					0.5
8	49 FUNCTION2 PFK	366.9792	29.52	0.000		0.000					0.8
9	49 FUNCTION2 PFK	366.9792	29.38	0.000		0.000					1.2
10	49 FUNCTION2 PFK	366.9792	29.20	0.000		0.000					1.0
11	49 FUNCTION2 PFK	366.9792	29.05	0.000		0.000					1.4
12	49 FUNCTION2 PFK	366.9792	28.94	0.000		0.000					0.8
13	49 FUNCTION2 PFK	366.9792	32.92	0.000		0.000					0.4
14	49 FUNCTION2 PFK	366.9792	32.49	0.000		0.000					0.9
15	49 FUNCTION2 PFK	366.9792	32.42	0.000		0.000					3.3
16	49 FUNCTION2 PFK	366.9792	32.36	0.000		0.000					2.6
17	49 FUNCTION2 PFK	366.9792	32.32	0.000		0.000					0.9
18	49 FUNCTION2 PFK	366.9792	32.12	0.000		0.000					2.0
19	49 FUNCTION2 PFK	366.9792	32.08	0.000		0.000					2.5
20	49 FUNCTION2 PFK	366.9792	31.78	0.000		0.000					1.6
21	49 FUNCTION2 PFK	366.9792	31.60	0.000		0.000					1.1
22	49 FUNCTION2 PFK	366.9792	31.55	0.000		0.000					1.3

PFK3

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rati..	1° Rati..	1° R..	S/N
1	50 FUNCTION3 PFK	380.9760	37.42	0.000		0.000					4.6
2	50 FUNCTION3 PFK	380.9760	37.37	0.000		0.000					5.0
3	50 FUNCTION3 PFK	380.9760	36.81	0.000		0.000					0.8
4	50 FUNCTION3 PFK	380.9760	33.32	0.000		0.000					2.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs.Resp	RRF	M.L.	pg	EMPC	1° Rafi...	1° Rafi...	1° R.	S/N
1	51 FUNCTION4 PFK	430.9728	41.11	0.000								1.0
2	51 FUNCTION4 PFK	430.9728	40.50	0.000								1.1
3	51 FUNCTION4 PFK	430.9728	40.21	0.000								1.7
4	51 FUNCTION4 PFK	430.9728	39.80	0.000								0.8
5	51 FUNCTION4 PFK	430.9728	39.74	0.000								1.8
6	51 FUNCTION4 PFK	430.9728	39.69	0.000								1.6
7	51 FUNCTION4 PFK	430.9728	39.55	0.000								1.5
8	51 FUNCTION4 PFK	430.9728	39.46	0.000								1.5
9	51 FUNCTION4 PFK	430.9728	39.20	0.000								0.9
10	51 FUNCTION4 PFK	430.9728	39.16	0.000								0.9
11	51 FUNCTION4 PFK	430.9728	39.07	0.000								1.1
12	51 FUNCTION4 PFK	430.9728	38.94	0.000								2.2
13	51 FUNCTION4 PFK	430.9728	38.75	0.000								2.4
14	51 FUNCTION4 PFK	430.9728	38.67	0.000								4.7
15	51 FUNCTION4 PFK	430.9728	38.61	0.000								7.2
16	51 FUNCTION4 PFK	430.9728	38.56	0.000								10.1
17	51 FUNCTION4 PFK	430.9728	44.09	0.000								0.9
18	51 FUNCTION4 PFK	430.9728	43.91	0.000								0.8
19	51 FUNCTION4 PFK	430.9728	43.84	0.000								0.7
20	51 FUNCTION4 PFK	430.9728	43.41	0.000								0.8
21	51 FUNCTION4 PFK	430.9728	43.33	0.000								0.6
22	51 FUNCTION4 PFK	430.9728	42.94	0.000								1.0
23	51 FUNCTION4 PFK	430.9728	42.78	0.000								0.7
24	51 FUNCTION4 PFK	430.9728	42.69	0.000								0.5
25	51 FUNCTION4 PFK	430.9728	42.52	0.000								1.2
26	51 FUNCTION4 PFK	430.9728	42.31	0.000								1.1
27	51 FUNCTION4 PFK	430.9728	42.26	0.000								0.4
28	51 FUNCTION4 PFK	430.9728	42.21	0.000								1.4
29	51 FUNCTION4 PFK	430.9728	42.15	0.000								1.0
30	51 FUNCTION4 PFK	430.9728	41.74	0.000								0.9
31	51 FUNCTION4 PFK	430.9728	41.45	0.000								0.5
32	51 FUNCTION4 PFK	430.9728	41.15	0.000								1.0
33	51 FUNCTION4 PFK	430.9728	44.98	0.000								1.4
34	51 FUNCTION4 PFK	430.9728	44.44	0.000								1.3
35	51 FUNCTION4 PFK	430.9728	44.37	0.000								1.5
36	51 FUNCTION4 PFK	430.9728	44.25	0.000								1.3

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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PFK5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
52	FUNCTION5 PFK	480.9696	46.44	0.000							1.7
52	FUNCTION5 PFK	480.9696	46.31	0.000							0.9
52	FUNCTION5 PFK	480.9696	46.27	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.10	0.000							1.7
52	FUNCTION5 PFK	480.9696	46.07	0.000							1.3
52	FUNCTION5 PFK	480.9696	46.01	0.000							1.6
52	FUNCTION5 PFK	480.9696	45.96	0.000							1.9
52	FUNCTION5 PFK	480.9696	45.90	0.000							0.8
52	FUNCTION5 PFK	480.9696	45.79	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.30	0.000							1.5
52	FUNCTION5 PFK	480.9696	45.06	0.000							1.4
52	FUNCTION5 PFK	480.9696	48.97	0.000							2.6
52	FUNCTION5 PFK	480.9696	48.90	0.000							1.4
52	FUNCTION5 PFK	480.9696	48.79	0.000							0.9
52	FUNCTION5 PFK	480.9696	48.49	0.000							0.7
52	FUNCTION5 PFK	480.9696	48.43	0.000							1.9
52	FUNCTION5 PFK	480.9696	48.37	0.000							1.4
52	FUNCTION5 PFK	480.9696	48.21	0.000							0.4
52	FUNCTION5 PFK	480.9696	47.90	0.000							0.8
52	FUNCTION5 PFK	480.9696	47.48	0.000							1.2
52	FUNCTION5 PFK	480.9696	47.39	0.000							1.0
52	FUNCTION5 PFK	480.9696	47.30	0.000							1.1

ETHERS1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
53	FUNCTION1 HXCD...	375.8364	25.94	0.000		0.000					5.4
53	FUNCTION1 HXCD...	375.8364	25.84	0.000		0.000					6.3
53	FUNCTION1 HXCD...	375.8364	23.93	0.000		0.000					17.3

ETHERS2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	28.23	0.000		0.000					2.5
54	FUNCTION1 HPCD...	409.7974	25.38	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	25.23	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	23.08	0.000		0.000					3.5
54	FUNCTION1 HPCD...	409.7974	22.55	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	22.00	0.000		0.000					2.7
54	FUNCTION1 HPCD...	409.7974	21.51	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	21.37	0.000		0.000					2.1

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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ETHERS3

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	31.81	0.000		0.000					1.5
2	55 FUNCTION2 HPCD...	409.7974	31.43	0.000		0.000					1.6
3	55 FUNCTION2 HPCD...	409.7974	29.99	0.000		0.000					2.4
4	55 FUNCTION2 HPCD...	409.7974	29.65	0.000		0.000					2.0
5	55 FUNCTION2 HPCD...	409.7974	29.61	0.000		0.000					1.7
6	55 FUNCTION2 HPCD...	409.7974	28.58	0.000		0.000					3.1

ETHERS4

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	36.31	0.000		0.000					6.4

ETHERS5

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	43.97	0.000		0.000					3.9
2	57 FUNCTION4 NCDPE	479.7165	42.36	0.000		0.000					2.9
3	57 FUNCTION4 NCDPE	479.7165	41.32	0.000		0.000					4.1
4	57 FUNCTION4 NCDPE	479.7165	41.12	0.000		0.000					2.7
5	57 FUNCTION4 NCDPE	479.7165	39.13	0.000		0.000					524.3

ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF M..	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
1											

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

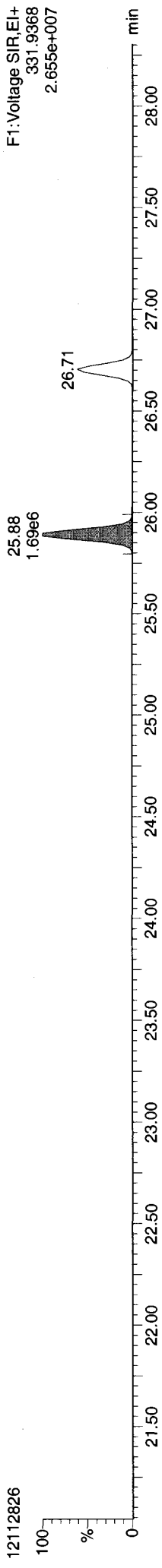
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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

12112826

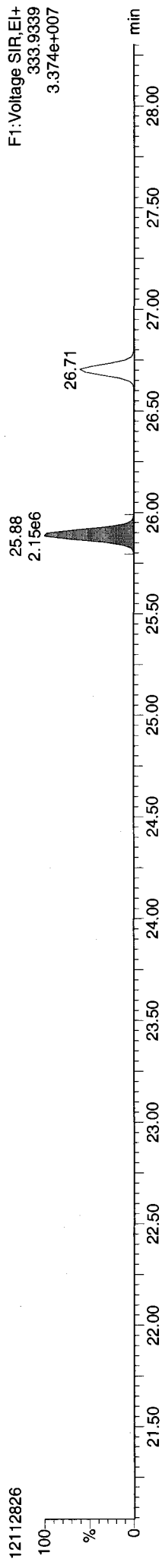
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13C-1234-TCDD

12112826

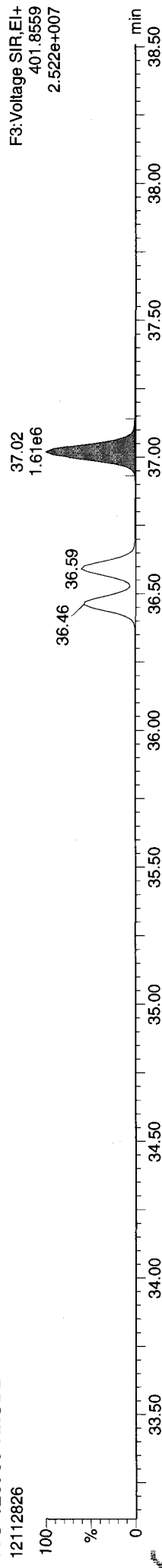
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13C-123789-HxCDD

12112826

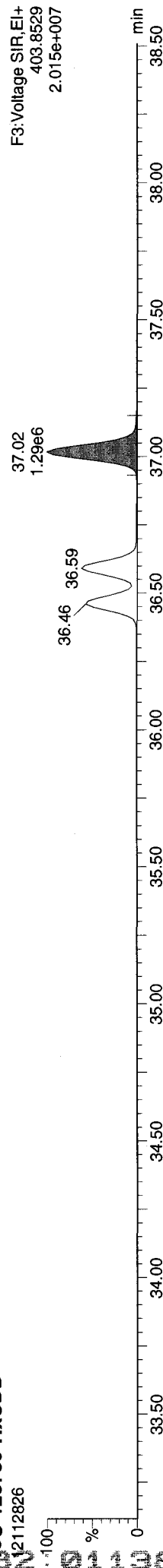
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13C-123789-HxCDD

12112826

100%



VR82G 011100

Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

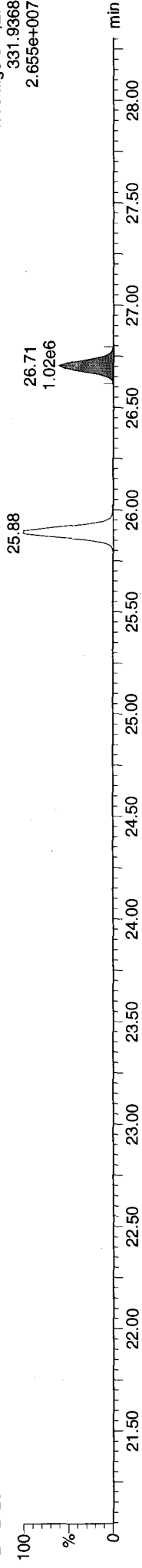
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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

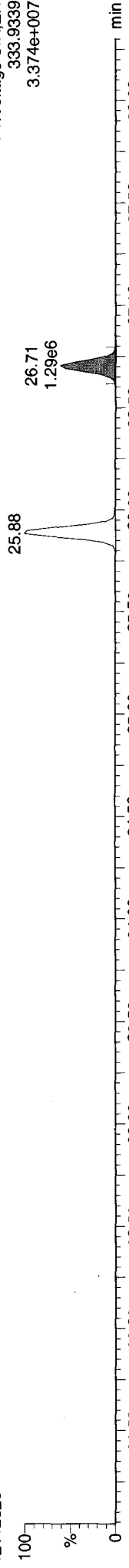
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12112826



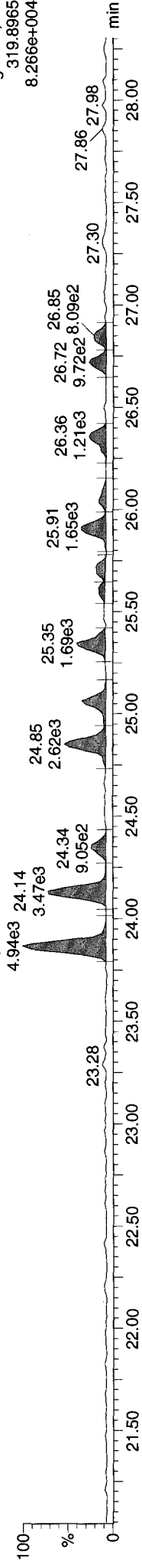
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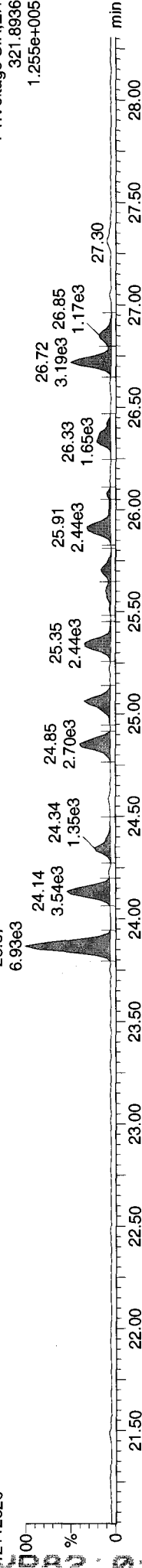
Total-tetradoxins

12112826



Total-tetradoxins

12112826



FUNCTION1 PFK

12112826



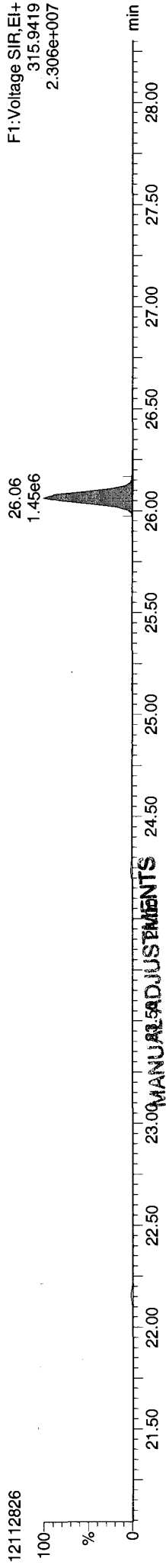
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

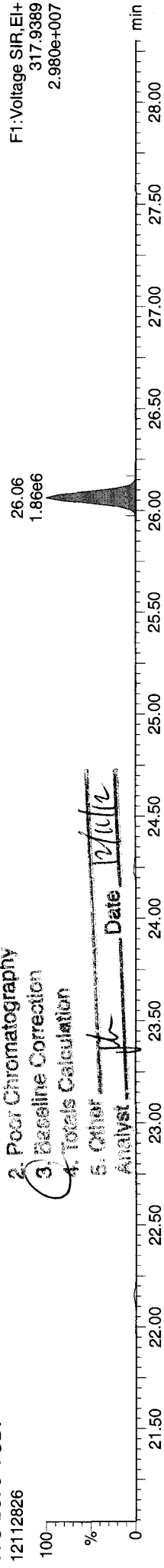
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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



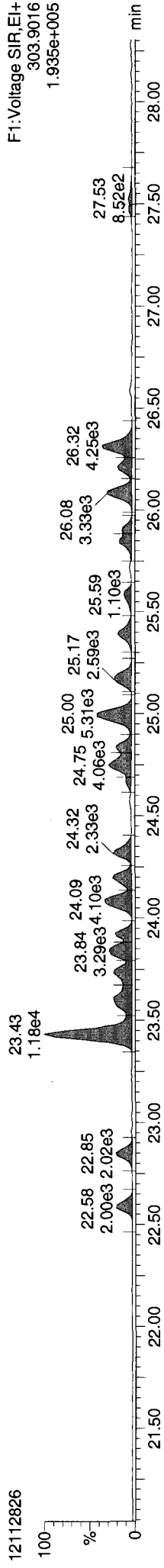
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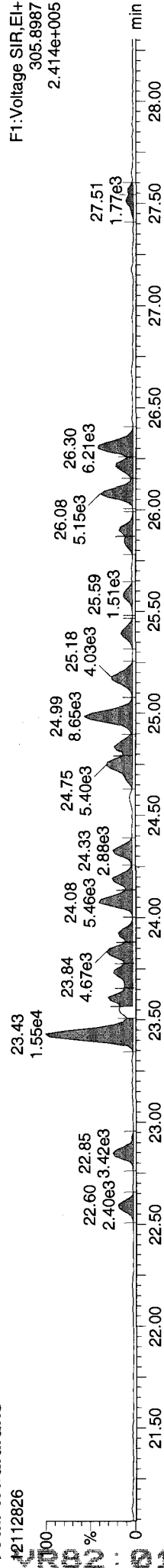
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4. Totals Calculation
5. Other

Analyst: [Signature] Date: 12/11/12

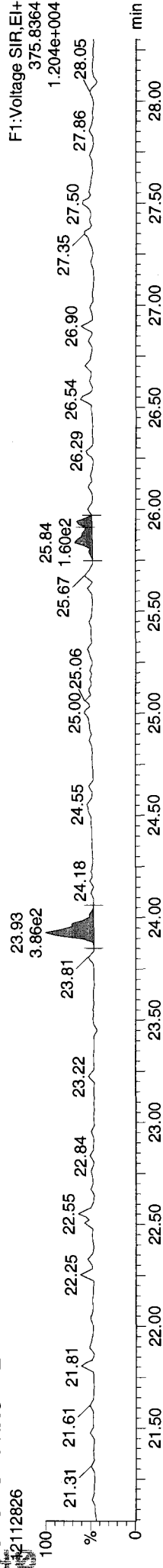
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

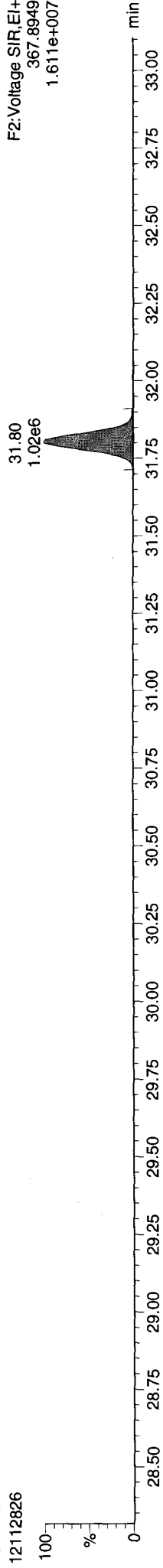


Quantify Sample Report MassLynx 4.1 SCN 714

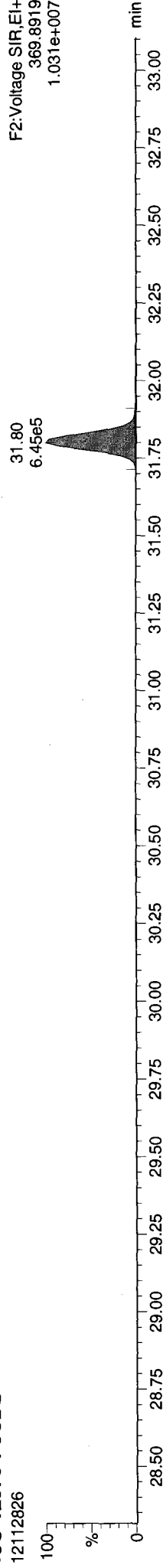
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

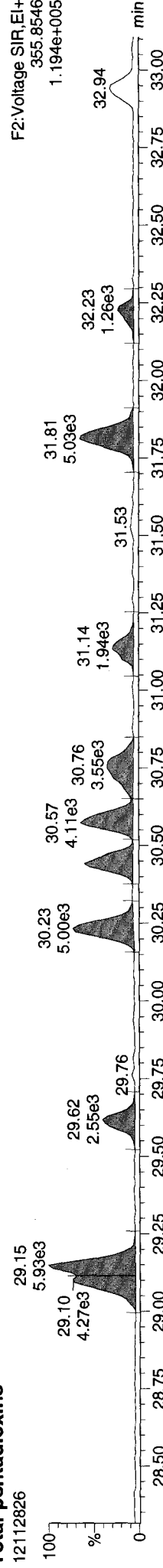
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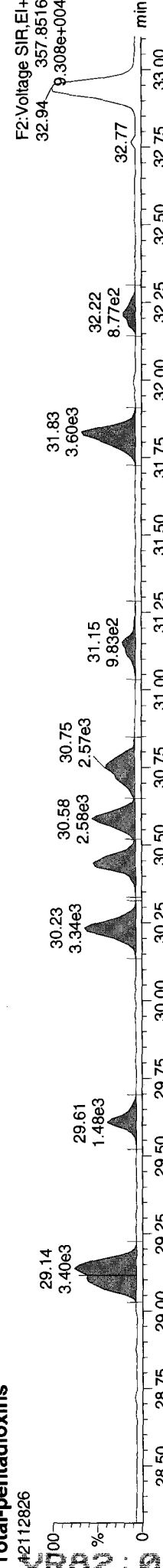
13C-12378-PeCDD



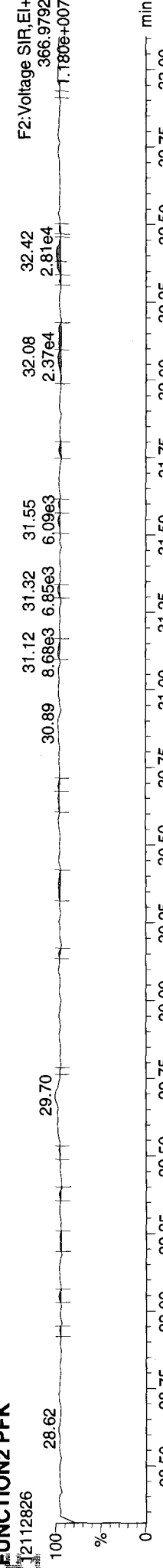
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDF



13C-12378-PeCDF



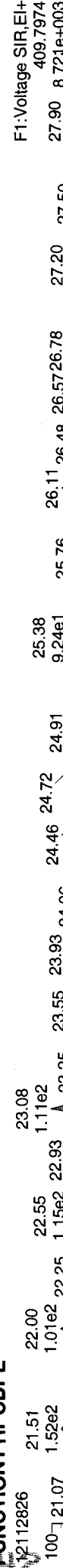
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

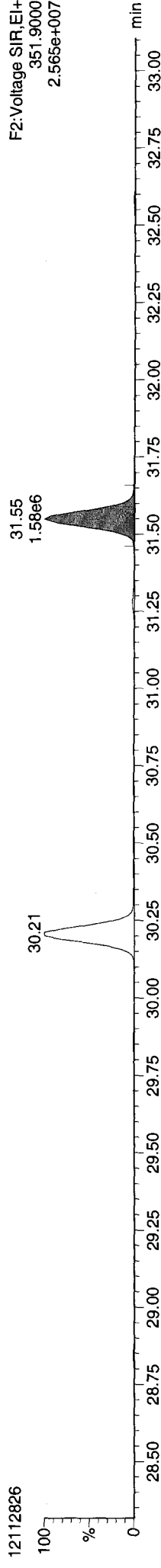


Quantify Sample Report MassLynx 4.1 SCN 714

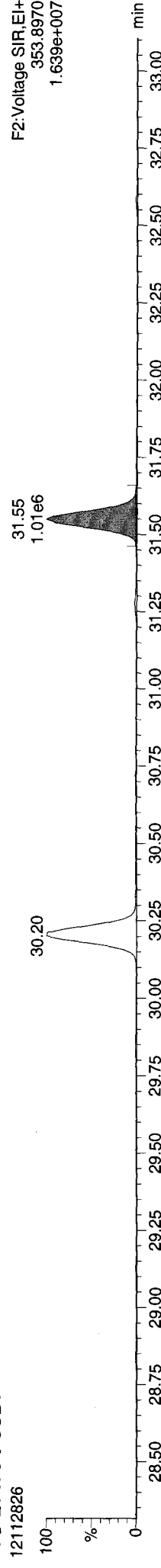
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

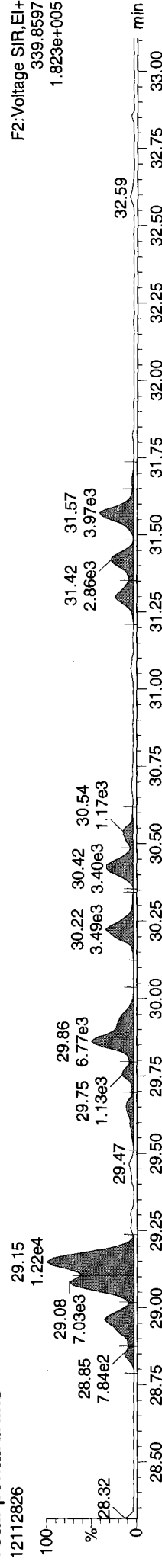
13C-23478-PeCDF



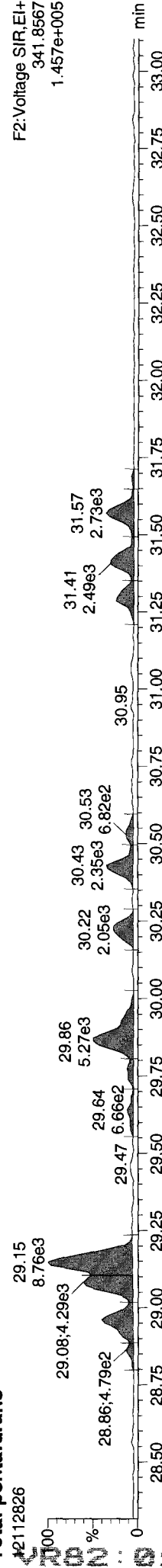
13C-23478-PeCDF



Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

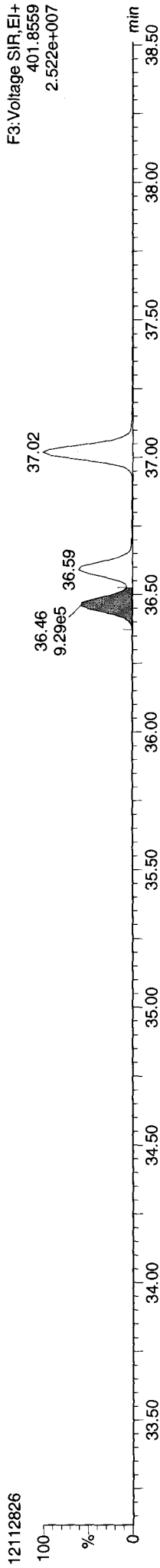


Quantify Sample Report MassLynx 4.1 SCN 714

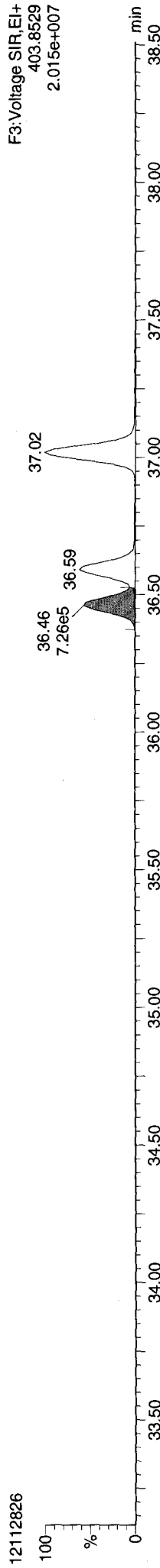
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

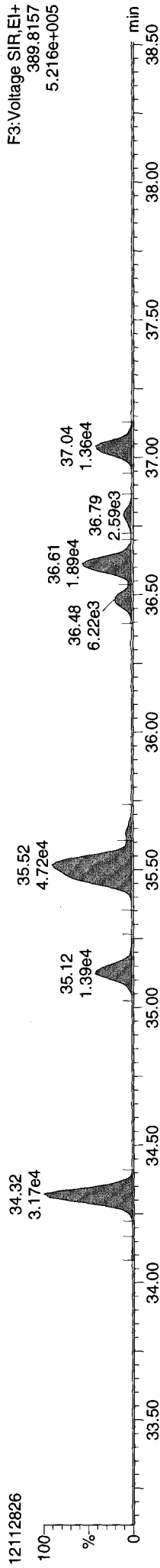
13C-123478-HxCDD



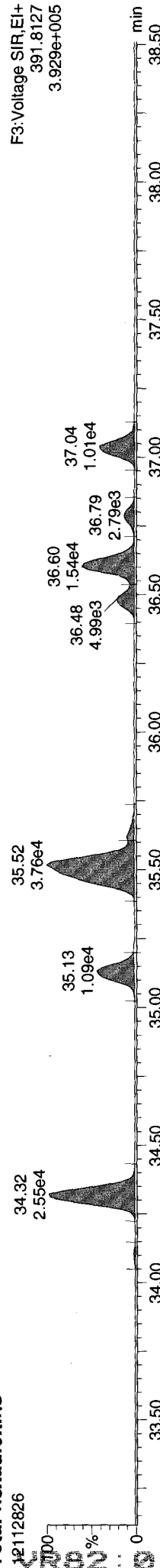
13C-123478-HxCDD



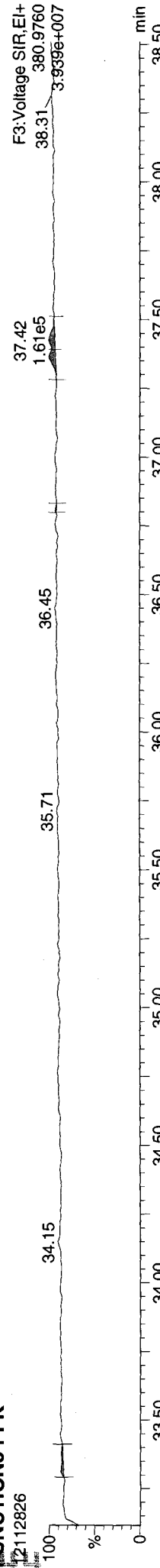
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

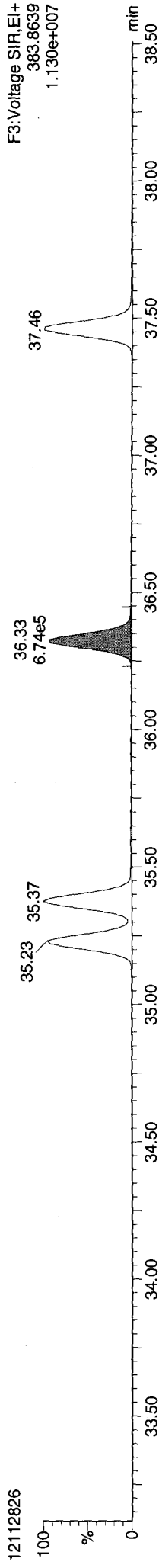


Quantify Sample Report MassLynx 4.1 SCN 714

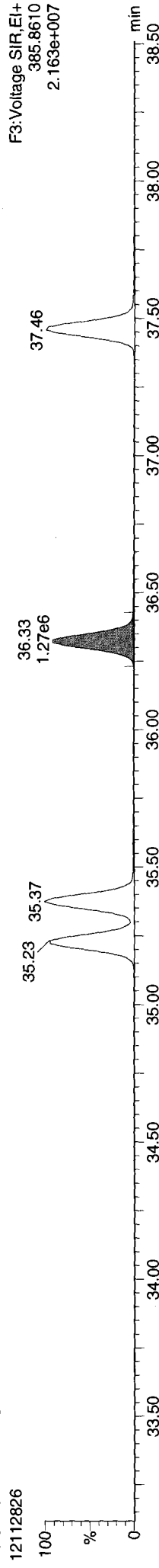
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

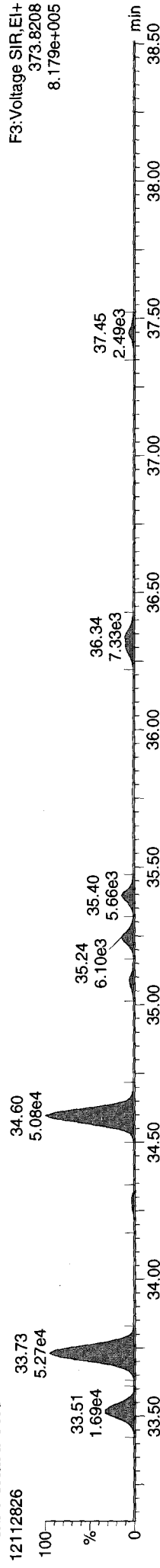
13C-234678-HxCDF



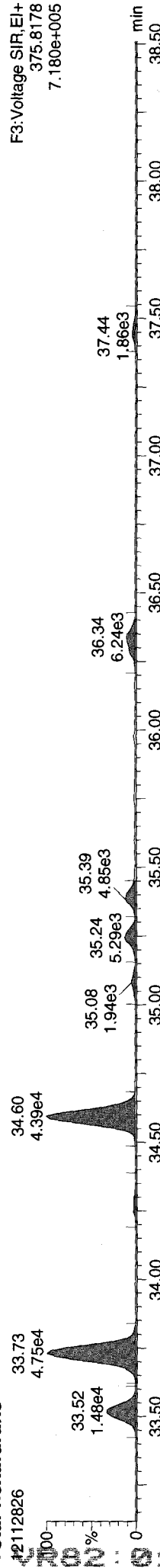
13C-234678-HxCDF



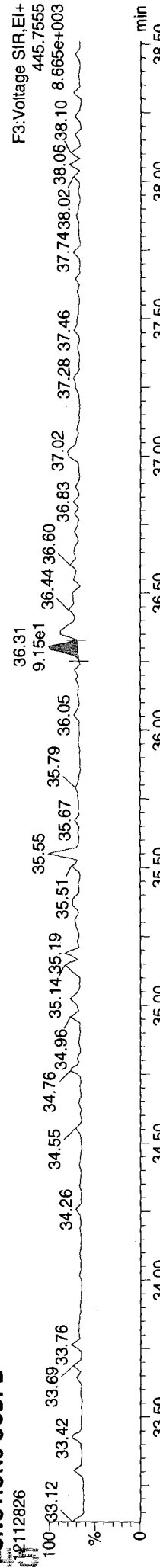
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



Quantify Sample Report MassLynx 4.1 SCN 714

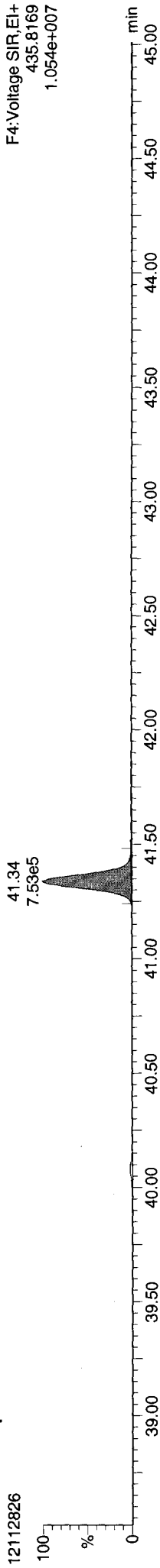
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

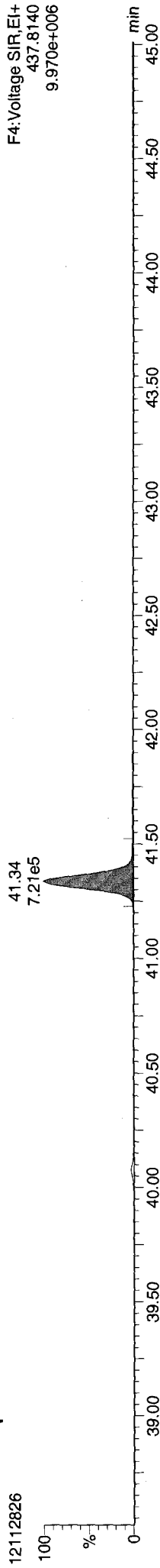
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

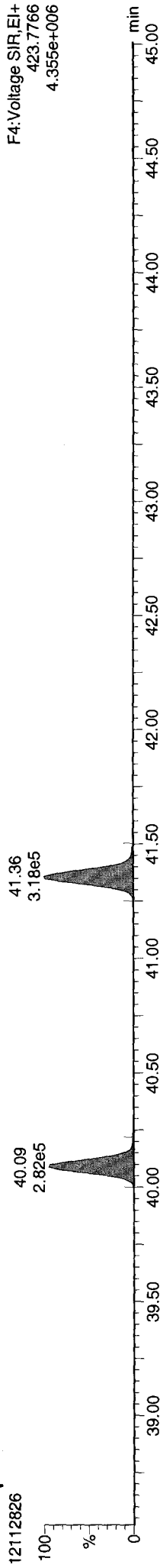
13C-1234678-HpCDD



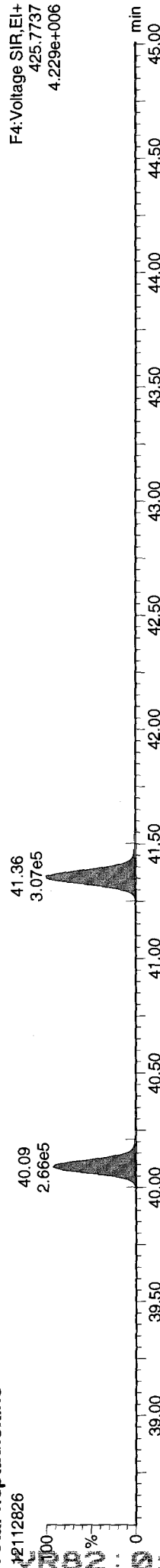
13C-1234678-HpCDD



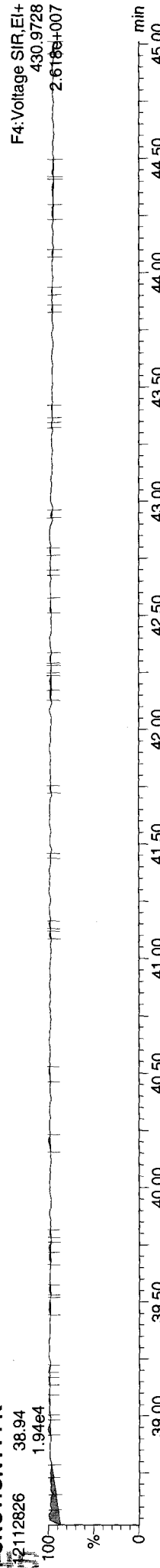
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

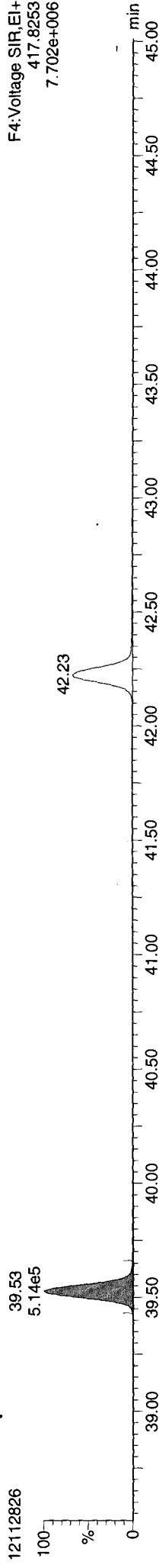


Quantify Sample Report MassLynx 4.1 SCN 714

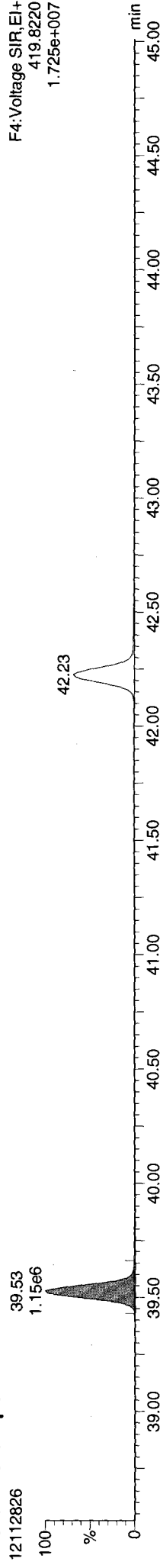
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

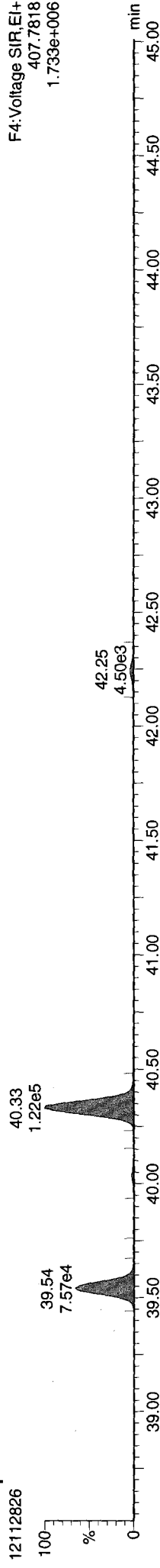
13C-1234678-HpCDF



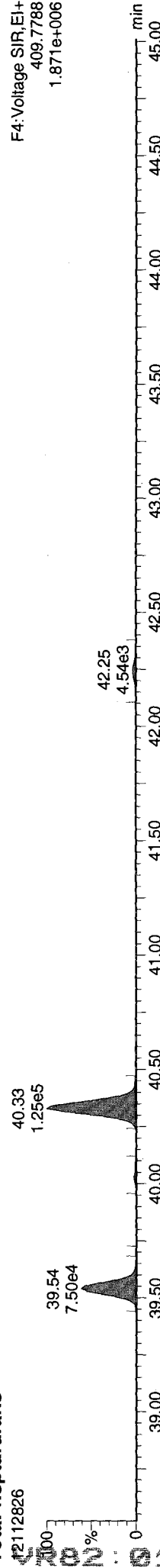
13C-1234678-HpCDF



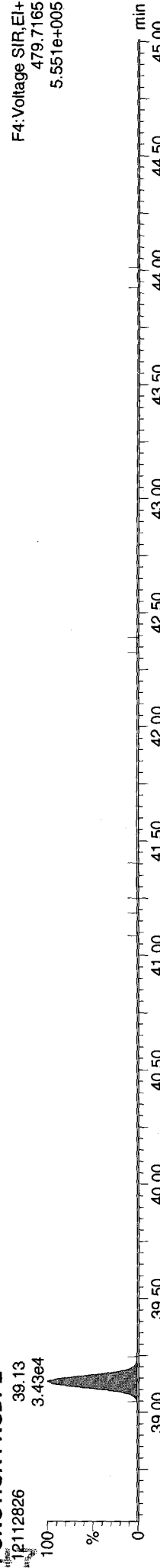
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

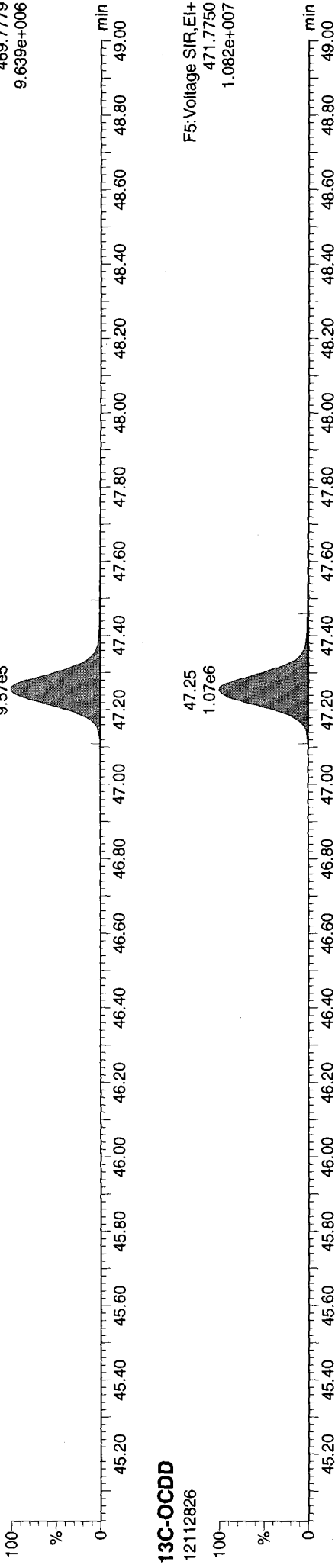
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112826

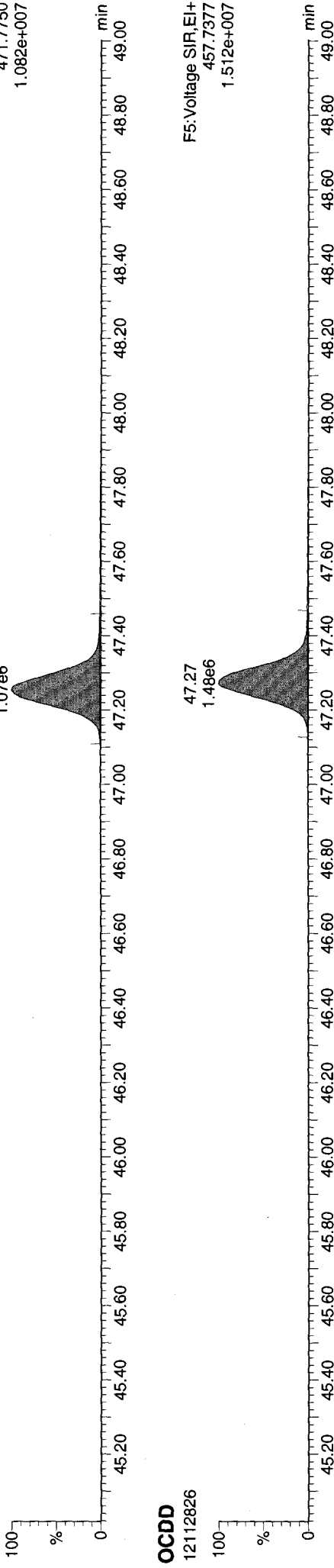
F5: Voltage SIR, EI+
469.7779
9.639e+006



13C-OCDD

12112826

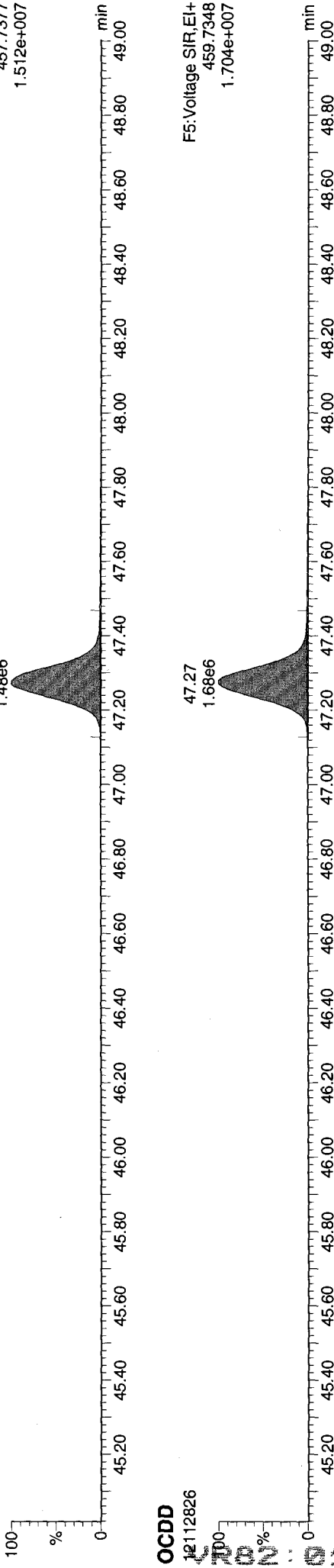
F5: Voltage SIR, EI+
471.7750
1.082e+007



OCDD

12112826

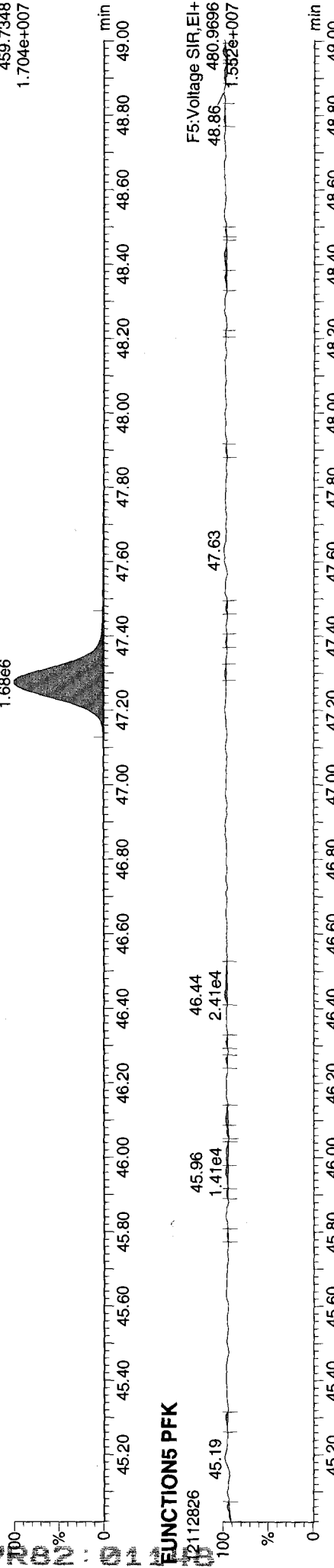
F5: Voltage SIR, EI+
457.7377
1.512e+007



OCDD

12112826

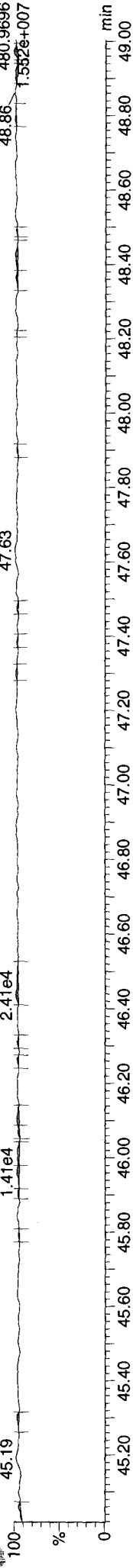
F5: Voltage SIR, EI+
459.7348
1.704e+007



FUNCTION5 PFK

12112826

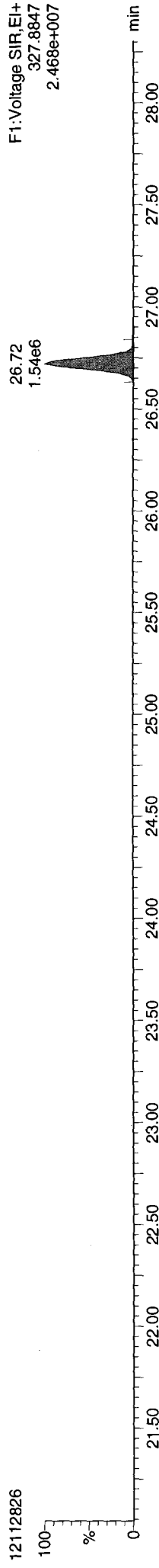
F5: Voltage SIR, EI+
480.9696
1.532e+007



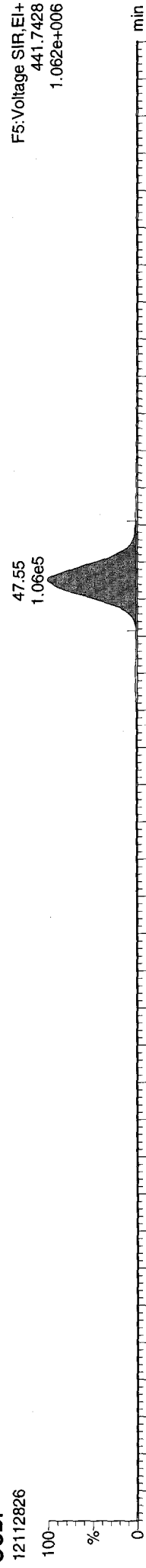
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:21 Pacific Standard Time

Name: 12112826, Date: 29-Nov-2012, Time: 08:00:18, ID: VR82G, Conditions: AUTOSPEC01, User: pk

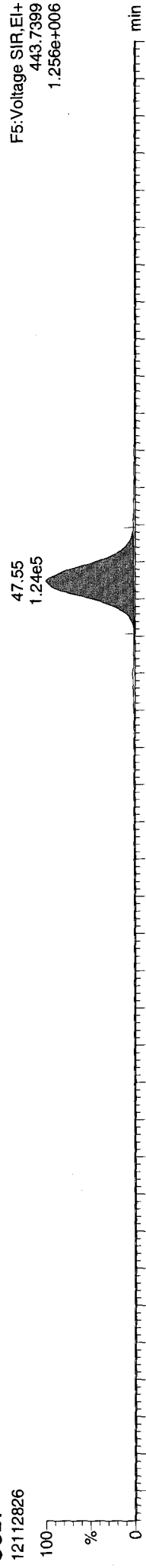
37CL-2378-TCDD



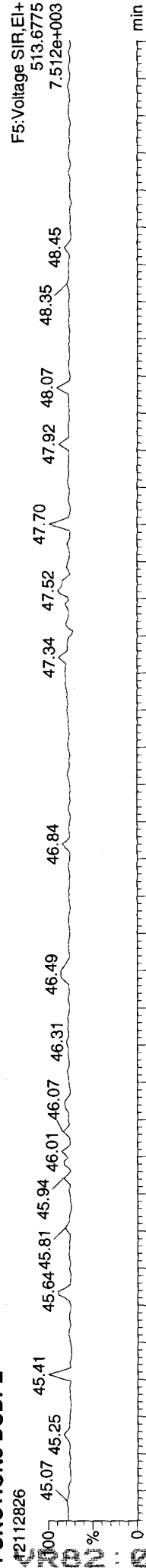
OCDF



OCDF



FUNCTION5 DCDPE



12112826
45.07 45.25 45.41 45.64 45.81 45.94 46.01 46.07 46.31 46.49 46.84 47.34 47.52 47.70 47.92 48.07 48.35 48.45

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

Name	RT	RIF	Ion1Area	Ion2Area	RIF	Ratio	Pred R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	pg
1	2378-TCDF	26.063	1.001	4.12e3	4.96e3	0.877	0.830	46.6	1429	3586	6.65e4	7.67e4	NO	0.283	0.283
2	12378-PeCDF	30.201	1.000	2.98e3	2.62e3	0.896	1.137	24.5	1940	1753	4.75e4	3.65e4	YES	0.183	0.209
3	23478-PeCDF	31.560	1.001	4.26e3	3.02e3	0.926	1.413	29.6	1940	1753	5.74e4	4.25e4	NO	0.276	0.276
4	123478-HxCDF	35.232	1.001	8.12e3	7.57e3	1.068	1.072	66.5	1900	1314	1.26e5	1.14e5	NO	0.664	0.664
5	234678-HxCDF	36.285	0.999	8.74e3	6.84e3	1.037	1.278	48.2	1900	1314	9.16e4	7.22e4	NO	0.702	0.702
6	123678-HxCDF	35.375	1.000	6.49e3	5.28e3	1.035	1.228	53.8	1900	1314	1.02e5	7.62e4	NO	0.493	0.493
7	123789-HxCDF	37.436	1.000	2.10e3	2.19e3	0.987	0.958	16.6	1900	1314	3.16e4	3.03e4	YES	0.165	0.187
8	1234678-HpCDF	39.529	1.000	1.06e5	1.08e5	1.232	0.978	962.8	1616	1574	1.56e6	1.65e6	NO	9.587	9.587
9	1234789-HpCDF	42.226	1.000	7.30e3	9.14e3	1.215	0.799	64.1	1616	1574	1.04e5	1.07e5	YES	0.813	0.937
10	OCDF	47.531	1.006	1.96e5	2.36e5	1.138	0.830	1817.3	1101	1159	2.00e6	2.43e6	NO	33.776	33.776
11	2378-TCDD	26.721	1.001	7.29e2	3.22e3	1.049	0.226	9.2	1412	926	1.30e4	4.94e4	YES	0.064	0.150
12	12378-PeCDD	31.801	1.000	5.06e3	3.24e3	0.998	1.561	51.3	1685	880	8.64e4	4.39e4	NO	0.445	0.445
13	123478-HxCDD	36.471	1.001	7.04e3	5.39e3	0.971	1.305	72.6	1453	1260	1.06e5	8.30e4	NO	0.696	0.696
14	123678-HxCDD	36.591	1.000	1.98e4	1.53e4	0.918	1.295	210.9	1453	1260	3.06e5	2.51e5	NO	1.970	1.970
15	123789-HxCDD	37.019	1.012	1.57e4	1.13e4	0.932	1.386	155.9	1453	1260	2.26e5	1.79e5	NO	1.530	1.530
16	1234678-HpCDD	41.338	1.000	3.79e5	3.57e5	1.017	1.062	1351.4	3857	2634	5.21e6	4.89e6	NO	45.288	45.288
17	OCDD	47.262	1.000	1.88e6	2.08e6	1.008	0.902	7529.4	2528	1958	1.90e7	2.12e7	NO	349.996	349.996
18	13C-2378-TCDF	26.048	1.006	1.59e6	2.06e6	1.473	0.771	7076.4	3573	2256	2.53e7	3.27e7	NO	62.209	62.209
19	13C-12378-PeCDF	30.190	1.166	1.83e6	1.17e6	1.148	1.564	7206.7	4106	1955	2.96e7	1.89e7	NO	65.392	65.392
20	13C-23478-PeCDF	31.538	1.218	1.74e6	1.10e6	1.113	1.579	6877.5	4106	1955	2.82e7	1.77e7	NO	64.183	64.183
21	13C-123478-HxCDF	35.210	0.951	7.50e5	1.46e6	1.209	0.512	3765.9	3088	3309	1.16e7	2.27e7	NO	60.537	60.537
22	13C-123678-HxCDF	35.364	0.956	7.94e5	1.52e6	1.269	0.523	3996.9	3088	3309	1.23e7	2.37e7	NO	60.205	60.205
23	13C-234678-HxCDF	36.306	0.981	7.40e5	1.40e6	1.236	0.528	3707.3	3088	3309	1.14e7	2.15e7	NO	57.255	57.255
24	13C-123789-HxCDF	37.446	1.012	7.97e5	1.53e6	1.107	0.521	4041.4	3088	3309	1.25e7	2.42e7	NO	69.528	69.528
25	13C-1234678-HpCDF	39.518	1.068	5.57e5	1.25e6	1.051	0.444	1691.1	4898	2361	8.28e6	1.84e7	NO	56.906	56.906
26	13C-1234789-HpCDF	42.215	1.141	4.40e5	1.00e6	0.815	0.439	1181.5	4898	2361	5.79e6	1.30e7	NO	58.570	58.570
27	13C-1234-TCDD	25.884	0.000	1.76e6	2.23e6	1.000	0.788	8875.5	3171	2066	2.81e7	3.51e7	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.031	1.10e6	1.41e6	0.946	0.779	5521.9	3171	2066	1.75e7	2.23e7	NO	66.389	66.389
29	13C-12378-PeCDD	31.790	1.228	1.14e6	7.24e5	0.721	1.578	12526.9	1472	1409	1.84e7	1.17e7	NO	64.916	64.916
30	13C-123478-HxCDD	36.449	0.985	1.03e6	8.07e5	0.991	1.280	4269.9	3786	2121	1.62e7	1.27e7	NO	61.411	61.411
31	13C-123678-HxCDD	36.580	0.988	1.08e6	8.64e5	1.025	1.248	4459.1	3786	2121	1.69e7	1.36e7	NO	62.648	62.648
32	13C-1234678-HpCDD	41.327	1.117	8.14e5	7.85e5	0.866	1.037	3068.1	3635	2888	1.12e7	1.06e7	NO	61.012	61.012
33	13C-OCDD	47.244	1.277	1.06e6	1.19e6	0.769	0.891	5396.9	1971	1607	1.06e7	1.20e7	NO	96.556	96.556

pk

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

Name	BT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	EMPC	pg
34	13C-123789-HxCDD	37.008	1.68e6	1.35e6	1.000	1.244	1.240	6758.1	3786	2121	2.56e7	2.05e7	NO			100.000
35	Total-tetrafurans		5.02e4		0.877				1429		7.66e5				4.713	3.645
36	Total-penta1		5.56e4						921		8.24e5				3.424	3.424
37	Total-pentafurans		2.05e4		0.911				1940		2.84e5				3.107	1.308
38	Total-hexafurans		1.61e5		1.032				1900		2.50e6				13.169	12.873
39	Total-heptafurans		2.88e5		1.223				1616		4.25e6				29.252	28.193
40	Total-Furans		7.71e5		1.041				1429		1.06e7				87.441	83.219
41	Total-tetraioxins		1.05e4		1.049				1412		1.70e5				1.705	0.911
42	Total-pentadioxins		3.31e4		0.998				1685		4.76e5				3.128	2.931
43	Total-hexadioxins		1.36e5		0.940				1453		1.80e6				13.921	13.731
44	Total-heptadioxins		6.80e5		1.017				3857		9.69e6				81.686	81.686
45	Total-Dioxins		3.13e7		0.985				1412		4.33e8				87.441	83.219
46	Total-TEQ		3.21e7						1412		4.43e8				174.881	166.437
47	37CL-2378-TCDD	26.706	1.49e6		1.044			15227.0	1531		2.33e7					35.724
48	FUNCTION1 PFK		6.81e5						656465		1.21e7					0.000
49	FUNCTION2 PFK		1.86e5						194071		5.67e6					0.000
50	FUNCTION3 PFK		3.58e5						513984		7.83e6					
51	FUNCTION4 PFK		8.77e5						316303		1.37e7					
52	FUNCTION5 PFK		5.26e5						260007		1.59e7					
53	FUNCTION1 HXCDPE		3.04e2						506		8.80e3					0.000
54	FUNCTION1 HPCDPE		1.20e3						911		2.50e4					0.000
55	FUNCTION2 HPCDPE		6.27e2						792		1.46e4					0.000
56	FUNCTION3 OCDPE		7.14e1						470		2.48e3					0.000
57	FUNCTION4 NCDPE		3.13e4						656		4.95e5					0.000
58	FUNCTION5 DCDPE		0.00e0						288		0.00e0					0.000

4.732

6.531

12112827

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	35 Total-tetrafurans	303.9016	24.30	6181.997	0.877	0.193	0.193	0.66	0.77	NO	26.4
2	35 Total-tetrafurans	303.9016	24.18	4846.221	0.877	0.151	0.151	0.83	0.77	NO	28.0
3	35 Total-tetrafurans	303.9016	24.08	9758.699	0.877	0.305	0.305	0.85	0.77	NO	42.9
4	35 Total-tetrafurans	303.9016	23.91	0.000	0.877	0.000	0.071	0.47	0.77	YES	13.4
5	35 Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.263	0.65	0.77	YES	41.7
6	35 Total-tetrafurans	303.9016	23.72	5733.153	0.877	0.179	0.179	0.79	0.77	NO	24.8
7	35 Total-tetrafurans	303.9016	23.58	0.000	0.877	0.000	0.169	0.56	0.77	YES	16.6
8	35 Total-tetrafurans	303.9016	23.54	0.000	0.877	0.000	0.082	0.51	0.77	YES	17.1
9	35 Total-tetrafurans	303.9016	23.42	24691.440	0.877	0.771	0.771	0.67	0.77	NO	113.8
10	35 Total-tetrafurans	303.9016	22.84	5157.966	0.877	0.161	0.161	0.69	0.77	NO	23.7
11	35 Total-tetrafurans	303.9016	22.58	4481.697	0.877	0.140	0.140	0.75	0.77	NO	23.8
12	35 Total-tetrafurans	303.9016	27.53	2549.263	0.877	0.080	0.080	0.74	0.77	NO	7.6
13	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.294	0.90	0.77	YES	50.0
14	35 Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.107	0.95	0.77	YES	18.6
15	1 2378-TCDF	303.9016	26.06	9074.415	0.877	0.283	0.283	0.83	0.77	NO	46.6
16	35 Total-tetrafurans	303.9016	25.88	2247.266	0.877	0.070	0.070	0.69	0.77	NO	11.2
17	35 Total-tetrafurans	303.9016	25.82	3057.029	0.877	0.095	0.095	0.86	0.77	NO	13.3
18	35 Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.082	0.95	0.77	YES	13.2
19	35 Total-tetrafurans	303.9016	25.38	3930.489	0.877	0.123	0.123	0.80	0.77	NO	21.0
20	35 Total-tetrafurans	303.9016	25.17	7110.314	0.877	0.222	0.222	0.80	0.77	NO	32.6
21	35 Total-tetrafurans	303.9016	24.97	14270.393	0.877	0.445	0.445	0.77	0.77	NO	61.8
22	35 Total-tetrafurans	303.9016	24.82	4460.431	0.877	0.139	0.139	0.72	0.77	NO	22.7
23	35 Total-tetrafurans	303.9016	24.73	9234.376	0.877	0.288	0.288	0.77	0.77	NO	35.8

PP

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	36 Total-penta1	339.8597	27.48	91738.824		3.424	3.424	1.54	1.55	NO	895.3

PF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.730	1.30	1.55	YES	101.5
2	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.395	1.27	1.55	YES	59.2
3	37 Total-pentafurans	339.8597	28.95	7010.607	0.911	0.263	0.263	1.44	1.55	NO	31.4
4	37 Total-pentafurans	339.8597	28.85	0.000	0.911	0.000	0.023	2.15	1.55	YES	8.1
5	3 23478-PeCDF	339.8597	31.56	7277.719	0.926	0.276	0.276	1.41	1.55	NO	29.6
6	37 Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.212	1.20	1.55	YES	26.6
7	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.131	1.02	1.55	YES	14.1
8	37 Total-pentafurans	339.8597	30.52	2059.800	0.911	0.077	0.077	1.64	1.55	NO	10.5
9	37 Total-pentafurans	339.8597	30.41	5722.638	0.911	0.215	0.215	1.41	1.55	NO	27.8
10	2 12378-PeCDF	339.8597	30.20	5600.596	0.896	0.000	0.183	1.14	1.55	YES	24.5
11	37 Total-pentafurans	339.8597	29.85	12688.105	0.911	0.477	0.477	1.44	1.55	NO	47.0
12	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.064	1.90	1.55	YES	11.0
13	37 Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.061	0.90	1.55	YES	9.2

VR82: 01152

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
5	234678-HxCDF	373.8208	36.28	15574.984	1.037	0.702	0.702	1.28	1.24	NO	48.2
38	Total-hexafurans	373.8208	35.94	0.000	1.032	0.000	0.012	2.46	1.24	YES	3.9
38	Total-hexafurans	373.8208	35.73	0.000	1.032	0.000	0.017	2.14	1.24	YES	3.1
6	123678-HxCDF	373.8208	35.37	11771.506	1.035	0.493	0.493	1.23	1.24	NO	53.8
4	123478-HxCDF	373.8208	35.23	15690.911	1.068	0.664	0.664	1.07	1.24	NO	66.5
38	Total-hexafurans	373.8208	35.07	3946.141	1.032	0.170	0.170	1.31	1.24	NO	15.8
38	Total-hexafurans	373.8208	34.57	106881.407	1.032	4.610	4.610	1.19	1.24	NO	487.3
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.101	1.00	1.24	YES	11.2
38	Total-hexafurans	373.8208	33.72	109311.871	1.032	4.715	4.715	1.14	1.24	NO	473.6
38	Total-hexafurans	373.8208	33.50	35225.415	1.032	1.519	1.519	1.19	1.24	NO	170.4
7	123789-HxCDF	373.8208	37.44	4291.044	0.987	0.000	0.165	0.96	1.24	YES	16.6

HPF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
39	Total-heptafurans	407.7818	40.32	370121.094	1.223	18.605	18.605	0.97	1.05	NO	1664.9
39	Total-heptafurans	407.7818	40.03	0.000	1.223	0.000	0.246	0.84	1.05	YES	20.3
8	1234678-HpCDF	407.7818	39.53	213641.297	1.232	9.587	9.587	0.98	1.05	NO	962.8
9	1234789-HpCDF	407.7818	42.23	16436.831	1.215	0.000	0.813	0.80	1.05	YES	64.1

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	SN
35	Total-tetrafurans	303.9016	24.30	6181.997	0.877	0.193	0.193	0.66	0.77	NO	26.4
35	Total-tetrafurans	303.9016	24.18	4846.221	0.877	0.151	0.151	0.83	0.77	NO	28.0
35	Total-tetrafurans	303.9016	24.08	9758.699	0.877	0.305	0.305	0.85	0.77	NO	42.9
35	Total-tetrafurans	303.9016	23.91	0.000	0.877	0.000	0.071	0.47	0.77	YES	13.4
35	Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.263	0.65	0.77	YES	41.7
35	Total-tetrafurans	303.9016	23.72	5733.153	0.877	0.179	0.179	0.79	0.77	NO	24.8
35	Total-tetrafurans	303.9016	23.58	0.000	0.877	0.000	0.169	0.56	0.77	YES	16.6
35	Total-tetrafurans	303.9016	23.54	0.000	0.877	0.000	0.082	0.51	0.77	YES	17.1
35	Total-tetrafurans	303.9016	23.42	24691.440	0.877	0.771	0.771	0.67	0.77	NO	113.8
35	Total-tetrafurans	303.9016	22.84	5157.966	0.877	0.161	0.161	0.69	0.77	NO	23.7
35	Total-tetrafurans	303.9016	22.58	4481.697	0.877	0.140	0.140	0.75	0.77	NO	23.8
35	Total-tetrafurans	303.9016	27.53	2549.263	0.877	0.080	0.080	0.74	0.77	NO	7.6
35	Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.294	0.90	0.77	YES	50.0
35	Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.107	0.95	0.77	YES	18.6
1	2378-TCDF	303.9016	26.06	9074.415	0.877	0.283	0.283	0.83	0.77	NO	46.6
35	Total-tetrafurans	303.9016	25.88	2247.266	0.877	0.070	0.070	0.69	0.77	NO	11.2
35	Total-tetrafurans	303.9016	25.82	3057.029	0.877	0.095	0.095	0.86	0.77	NO	13.3
35	Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.082	0.95	0.77	YES	13.2
35	Total-tetrafurans	303.9016	25.38	3930.489	0.877	0.123	0.123	0.80	0.77	NO	21.0
35	Total-tetrafurans	303.9016	25.17	7110.314	0.877	0.222	0.222	0.80	0.77	NO	32.6
35	Total-tetrafurans	303.9016	24.97	14270.393	0.877	0.445	0.445	0.77	0.77	NO	61.8
35	Total-tetrafurans	303.9016	24.82	4460.431	0.877	0.139	0.139	0.72	0.77	NO	22.7
35	Total-tetrafurans	303.9016	24.73	9234.376	0.877	0.288	0.288	0.77	0.77	NO	35.8
37	Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.730	1.30	1.55	YES	101.5
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.395	1.27	1.55	YES	59.2
37	Total-pentafurans	339.8597	28.95	7010.607	0.911	0.263	0.263	1.44	1.55	NO	31.4
37	Total-pentafurans	339.8597	28.85	0.000	0.911	0.000	0.023	2.15	1.55	YES	8.1
3	23478-PeCDF	339.8597	31.56	7277.719	0.926	0.276	0.276	1.41	1.55	NO	29.6
37	Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.212	1.20	1.55	YES	26.6
37	Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.131	1.02	1.55	YES	14.1
37	Total-pentafurans	339.8597	30.52	2059.800	0.911	0.077	0.077	1.64	1.55	NO	10.5
37	Total-pentafurans	339.8597	30.41	5722.638	0.911	0.215	0.215	1.41	1.55	NO	27.8
2	12378-PeCDF	339.8597	30.20	5600.596	0.896	0.000	0.183	1.14	1.55	YES	24.5
37	Total-pentafurans	339.8597	29.85	12688.105	0.911	0.477	0.477	1.44	1.55	NO	47.0
37	Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.064	1.90	1.55	YES	11.0
37	Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.061	0.90	1.55	YES	9.2
5	234678-HxCDF	373.8208	36.28	15574.984	1.037	0.702	0.702	1.28	1.24	NO	48.2
38	Total-hexafurans	373.8208	35.94	0.000	1.032	0.000	0.012	2.46	1.24	YES	3.9
38	Total-hexafurans	373.8208	35.73	0.000	1.032	0.000	0.017	2.14	1.24	YES	3.1
6	123678-HxCDF	373.8208	35.37	11771.506	1.035	0.493	0.493	1.23	1.24	NO	53.8
4	123478-HxCDF	373.8208	35.23	15690.911	1.068	0.664	0.664	1.07	1.24	NO	66.5
38	Total-hexafurans	373.8208	35.07	3946.141	1.032	0.170	0.170	1.31	1.24	NO	15.8
38	Total-hexafurans	373.8208	34.57	106881.407	1.032	4.610	4.610	1.19	1.24	NO	487.3
38	Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.101	1.00	1.24	YES	11.2
38	Total-hexafurans	373.8208	33.72	109311.871	1.032	4.715	4.715	1.14	1.24	NO	473.6
38	Total-hexafurans	373.8208	33.50	35225.415	1.032	1.519	1.519	1.19	1.24	NO	170.4
7	123789-HxCDF	373.8208	37.44	4291.044	0.987	0.000	0.165	0.96	1.24	YES	16.6
39	Total-heptafurans	407.7818	40.32	370121.094	1.223	18.605	18.605	0.97	1.05	NO	1664.9
39	Total-heptafurans	407.7818	40.03	0.000	1.223	0.000	0.246	0.84	1.05	YES	20.3

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
8	1234678-HpCDF	407.7818	39.53	213641.297	1.232	9.587	9.587	0.98	1.05	NO	962.8
9	1234789-HpCDF	407.7818	42.23	16436.831	1.215	0.000	0.813	0.80	1.05	YES	64.1
10	OCDF	441.7428	47.53	431456.297	1.138	33.776	33.776	0.83	0.89	NO	1817.3
36	Total-penta1	339.8597	27.48	91738.824		3.424	3.424	1.54	1.55	NO	895.3

TD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
41	Total-tetradiioxins	319.8965	26.84	0.000	1.049	0.000	0.053	1.04	0.77	YES	10.2
11	2378-TCDD	319.8965	26.72	3953.289	1.049	0.000	0.064	0.23	0.77	YES	9.2
41	Total-tetradiioxins	319.8965	26.33	0.000	1.049	0.000	0.095	0.56	0.77	YES	8.4
41	Total-tetradiioxins	319.8965	26.05	0.000	1.049	0.000	0.018	1.25	0.77	YES	4.3
41	Total-tetradiioxins	319.8965	25.90	2767.133	1.049	0.105	0.105	0.68	0.77	NO	14.2
41	Total-tetradiioxins	319.8965	25.69	0.000	1.049	0.000	0.064	0.89	0.77	YES	8.4
41	Total-tetradiioxins	319.8965	25.59	806.210	1.049	0.031	0.031	0.81	0.77	NO	4.3
41	Total-tetradiioxins	319.8965	25.33	0.000	1.049	0.000	0.167	0.91	0.77	YES	24.2
41	Total-tetradiioxins	319.8965	25.02	0.000	1.049	0.000	0.089	0.52	0.77	YES	9.0
41	Total-tetradiioxins	319.8965	24.84	0.000	1.049	0.000	0.168	0.64	0.77	YES	20.3
41	Total-tetradiioxins	319.8965	24.33	0.000	1.049	0.000	0.076	0.97	0.77	YES	12.4
41	Total-tetradiioxins	319.8965	24.12	8628.930	1.049	0.328	0.328	0.86	0.77	NO	45.9
41	Total-tetradiioxins	319.8965	23.85	11742.927	1.049	0.447	0.447	0.75	0.77	NO	55.7

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
42	Total-pentadiioxins	355.8546	30.73	5867.083	0.998	0.315	0.315	1.46	1.55	NO	23.2
42	Total-pentadiioxins	355.8546	30.56	5664.711	0.998	0.304	0.304	1.58	1.55	NO	35.7
42	Total-pentadiioxins	355.8546	30.43	6255.390	0.998	0.336	0.336	1.33	1.55	NO	36.7
42	Total-pentadiioxins	355.8546	30.22	7945.394	0.998	0.427	0.427	1.68	1.55	NO	54.4
42	Total-pentadiioxins	355.8546	29.59	4463.383	0.998	0.240	0.240	1.41	1.55	NO	25.4
42	Total-pentadiioxins	355.8546	29.09	16099.870	0.998	0.864	0.864	1.62	1.55	NO	55.6
42	Total-pentadiioxins	355.8546	32.21	0.000	0.998	0.000	0.083	2.17	1.55	YES	14.3
12	12378-PeCDD	355.8546	31.80	8298.688	0.998	0.445	0.445	1.56	1.55	NO	51.3
42	Total-pentadiioxins	355.8546	31.12	0.000	0.998	0.000	0.114	1.30	1.55	YES	10.0

HD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R.	S/N
14	123678-HxCDD	389.8157	36.59	35120.285	0.918	1.970	1.970	1.30	1.24	NO	210.9
13	123478-HxCDD	389.8157	36.47	12432.939	0.971	0.696	0.696	1.30	1.24	NO	72.6
43	Total-hexadiioxins	389.8157	35.62	0.000	0.940	0.000	0.189	1.01	1.24	YES	26.5
43	Total-hexadiioxins	389.8157	35.51	89908.071	0.940	5.056	5.056	1.20	1.24	NO	333.2
43	Total-hexadiioxins	389.8157	35.11	18662.067	0.940	1.050	1.050	1.40	1.24	NO	105.0
43	Total-hexadiioxins	389.8157	34.30	55749.396	0.940	3.135	3.135	1.23	1.24	NO	329.0
15	123789-HxCDD	389.8157	37.02	26975.724	0.932	1.530	1.530	1.39	1.24	NO	155.9
43	Total-hexadiioxins	389.8157	36.77	5217.761	0.940	0.293	0.293	1.29	1.24	NO	29.6

Quantify Totals Report MassLynx 4.1 SCN 714

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HPD

	# Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
1	16 1234678-HpCDD	423.7766	41.34	735997.469	1.017	45.288	45.288	1.06	1.05	NO	1351.4
2	44 Total-heptadioxins	423.7766	40.08	591514.063	1.017	36.398	36.398	1.03	1.05	NO	1159.4

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
1	35 Total-tetrafurans	303.9016	24.30	6181.997	0.877	0.193	0.193	0.66	0.77	NO	26.4
2	35 Total-tetrafurans	303.9016	24.18	4846.221	0.877	0.151	0.151	0.83	0.77	NO	28.0
3	35 Total-tetrafurans	303.9016	24.08	9758.699	0.877	0.305	0.305	0.85	0.77	NO	42.9
4	35 Total-tetrafurans	303.9016	23.91	0.000	0.877	0.000	0.071	0.47	0.77	YES	13.4
5	35 Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.263	0.65	0.77	YES	41.7
6	35 Total-tetrafurans	303.9016	23.72	5733.153	0.877	0.179	0.179	0.79	0.77	NO	24.8
7	35 Total-tetrafurans	303.9016	23.58	0.000	0.877	0.000	0.169	0.56	0.77	YES	16.6
8	35 Total-tetrafurans	303.9016	23.54	0.000	0.877	0.000	0.082	0.51	0.77	YES	17.1
9	35 Total-tetrafurans	303.9016	23.42	24691.440	0.877	0.771	0.771	0.67	0.77	NO	113.8
10	35 Total-tetrafurans	303.9016	22.84	5157.966	0.877	0.161	0.161	0.69	0.77	NO	23.7
11	35 Total-tetrafurans	303.9016	22.58	4481.697	0.877	0.140	0.140	0.75	0.77	NO	23.8
12	35 Total-tetrafurans	303.9016	27.53	2549.263	0.877	0.080	0.080	0.74	0.77	NO	7.6
13	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.294	0.90	0.77	YES	50.0
14	35 Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.107	0.95	0.77	YES	18.6
15	1 2378-TCDF	303.9016	26.06	9074.415	0.877	0.283	0.283	0.83	0.77	NO	46.6
16	35 Total-tetrafurans	303.9016	25.88	2247.266	0.877	0.070	0.070	0.69	0.77	NO	11.2
17	35 Total-tetrafurans	303.9016	25.82	3057.029	0.877	0.095	0.095	0.86	0.77	NO	13.3
18	35 Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.082	0.95	0.77	YES	13.2
19	35 Total-tetrafurans	303.9016	25.38	3930.489	0.877	0.123	0.123	0.80	0.77	NO	21.0
20	35 Total-tetrafurans	303.9016	25.17	7110.314	0.877	0.222	0.222	0.80	0.77	NO	32.6
21	35 Total-tetrafurans	303.9016	24.97	14270.393	0.877	0.445	0.445	0.77	0.77	NO	61.8
22	35 Total-tetrafurans	303.9016	24.82	4460.431	0.877	0.139	0.139	0.72	0.77	NO	22.7
23	35 Total-tetrafurans	303.9016	24.73	9234.376	0.877	0.288	0.288	0.77	0.77	NO	35.8
24	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.730	1.30	1.55	YES	101.5
25	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.395	1.27	1.55	YES	59.2
26	37 Total-pentafurans	339.8597	28.95	7010.607	0.911	0.263	0.263	1.44	1.55	NO	31.4
27	37 Total-pentafurans	339.8597	28.85	0.000	0.911	0.000	0.023	2.15	1.55	YES	8.1
28	3 23478-PeCDF	339.8597	31.56	7277.719	0.926	0.276	0.276	1.41	1.55	NO	29.6
29	37 Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.212	1.20	1.55	YES	26.6
30	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.131	1.02	1.55	YES	14.1
31	37 Total-pentafurans	339.8597	30.52	2059.800	0.911	0.077	0.077	1.64	1.55	NO	10.5
32	37 Total-pentafurans	339.8597	30.41	5722.638	0.911	0.215	0.215	1.41	1.55	NO	27.8
33	2 12378-PeCDF	339.8597	30.20	5600.596	0.896	0.209	0.183	1.14	1.55	YES	24.5
34	37 Total-pentafurans	339.8597	29.85	12688.105	0.911	0.477	0.477	1.44	1.55	NO	47.0
35	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.064	1.90	1.55	YES	11.0
36	37 Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.061	0.90	1.55	YES	9.2
37	5 234678-HxCDF	373.8208	36.28	15574.984	1.037	0.702	0.702	1.28	1.24	NO	48.2
38	38 Total-hexafurans	373.8208	35.94	0.000	1.032	0.000	0.012	2.46	1.24	YES	3.9
39	38 Total-hexafurans	373.8208	35.73	0.000	1.032	0.000	0.017	2.14	1.24	YES	3.1
40	6 123678-HxCDF	373.8208	35.37	11771.506	1.035	0.493	0.493	1.23	1.24	NO	53.8
41	4 123478-HxCDF	373.8208	35.23	15690.911	1.068	0.664	0.664	1.07	1.24	NO	66.5
42	38 Total-hexafurans	373.8208	35.07	3946.141	1.032	0.170	0.170	1.31	1.24	NO	15.8
43	38 Total-hexafurans	373.8208	34.57	106881.407	1.032	4.610	4.610	1.19	1.24	NO	487.3
44	38 Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.101	1.00	1.24	YES	11.2
45	38 Total-hexafurans	373.8208	33.72	109311.871	1.032	4.715	4.715	1.14	1.24	NO	473.6
46	38 Total-hexafurans	373.8208	33.50	35225.415	1.032	1.519	1.519	1.19	1.24	NO	170.4
47	7 123789-HxCDF	373.8208	37.44	4291.044	0.987	0.187	0.165	0.96	1.24	YES	16.6
48	39 Total-heptafurans	407.7818	40.32	370121.094	1.223	18.605	18.605	0.97	1.05	NO	1664.9
49	39 Total-heptafurans	407.7818	40.03	0.000	1.223	0.000	0.246	0.84	1.05	YES	20.3

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M..	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
8	1234678-HpCDF	407.7818	39.53	213641.297	1.232	9.587	9.587	0.98	1.05	NO	962.8
9	1234789-HpCDF	407.7818	42.23	16436.831	1.215	0.937	0.813	0.80	1.05	YES	64.1
10	OCDF	441.7428	47.53	431456.297	1.138	33.776	33.776	0.83	0.89	NO	1817.3
36	Total-penta1	339.8597	27.48	91738.824		3.424	3.424	1.54	1.55	NO	895.3

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° F...	S/N
1	35 Total-tetrafurans	303.9016	24.30	6181.997	0.877	0.193	0.193	0.66	0.77	NO	26.4
2	35 Total-tetrafurans	303.9016	24.18	4846.221	0.877	0.151	0.151	0.83	0.77	NO	28.0
3	35 Total-tetrafurans	303.9016	24.08	9758.699	0.877	0.305	0.305	0.85	0.77	NO	42.9
4	35 Total-tetrafurans	303.9016	23.91	0.000	0.877	0.000	0.071	0.47	0.77	YES	13.4
5	35 Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.263	0.65	0.77	YES	41.7
6	35 Total-tetrafurans	303.9016	23.72	5733.153	0.877	0.179	0.179	0.79	0.77	NO	24.8
7	35 Total-tetrafurans	303.9016	23.58	0.000	0.877	0.000	0.169	0.56	0.77	YES	16.6
8	35 Total-tetrafurans	303.9016	23.54	0.000	0.877	0.000	0.082	0.51	0.77	YES	17.1
9	35 Total-tetrafurans	303.9016	23.42	24691.440	0.877	0.771	0.771	0.67	0.77	NO	113.8
10	35 Total-tetrafurans	303.9016	22.84	5157.966	0.877	0.161	0.161	0.69	0.77	NO	23.7
11	35 Total-tetrafurans	303.9016	22.58	4481.697	0.877	0.140	0.140	0.75	0.77	NO	23.8
12	35 Total-tetrafurans	303.9016	27.53	2549.263	0.877	0.080	0.080	0.74	0.77	NO	7.6
13	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.294	0.90	0.77	YES	50.0
14	35 Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.107	0.95	0.77	YES	18.6
15	1 2378-TCDF	303.9016	26.06	9074.415	0.877	0.283	0.283	0.83	0.77	NO	46.6
16	35 Total-tetrafurans	303.9016	25.88	2247.266	0.877	0.070	0.070	0.69	0.77	NO	11.2
17	35 Total-tetrafurans	303.9016	25.82	3057.029	0.877	0.095	0.095	0.86	0.77	NO	13.3
18	35 Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.082	0.95	0.77	YES	13.2
19	35 Total-tetrafurans	303.9016	25.38	3930.489	0.877	0.123	0.123	0.80	0.77	NO	21.0
20	35 Total-tetrafurans	303.9016	25.17	7110.314	0.877	0.222	0.222	0.80	0.77	NO	32.6
21	35 Total-tetrafurans	303.9016	24.97	14270.393	0.877	0.445	0.445	0.77	0.77	NO	61.8
22	35 Total-tetrafurans	303.9016	24.82	4460.431	0.877	0.139	0.139	0.72	0.77	NO	22.7
23	35 Total-tetrafurans	303.9016	24.73	9234.376	0.877	0.288	0.288	0.77	0.77	NO	35.8
24	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.730	1.30	1.55	YES	101.5
25	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.395	1.27	1.55	YES	59.2
26	37 Total-pentafurans	339.8597	28.95	7010.607	0.911	0.263	0.263	1.44	1.55	NO	31.4
27	37 Total-pentafurans	339.8597	28.85	0.000	0.911	0.000	0.023	2.15	1.55	YES	8.1
28	3 23478-PeCDF	339.8597	31.56	7277.719	0.926	0.276	0.276	1.41	1.55	NO	29.6
29	37 Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.212	1.20	1.55	YES	26.6
30	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.131	1.02	1.55	YES	14.1
31	37 Total-pentafurans	339.8597	30.52	2059.800	0.911	0.077	0.077	1.64	1.55	NO	10.5
32	37 Total-pentafurans	339.8597	30.41	5722.638	0.911	0.215	0.215	1.41	1.55	NO	27.8
33	2 12378-PeCDF	339.8597	30.20	5600.596	0.896	0.000	0.183	1.14	1.55	YES	24.5
34	37 Total-pentafurans	339.8597	29.85	12688.105	0.911	0.477	0.477	1.44	1.55	NO	47.0
35	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.064	1.90	1.55	YES	11.0
36	37 Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.061	0.90	1.55	YES	9.2
37	5 234678-HxCDF	373.8208	36.28	15574.984	1.037	0.702	0.702	1.28	1.24	NO	48.2
38	38 Total-hexafurans	373.8208	35.94	0.000	1.032	0.000	0.012	2.46	1.24	YES	3.9
39	38 Total-hexafurans	373.8208	35.73	0.000	1.032	0.000	0.017	2.14	1.24	YES	3.1
40	6 123678-HxCDF	373.8208	35.37	11771.506	1.035	0.493	0.493	1.23	1.24	NO	53.8
41	4 123478-HxCDF	373.8208	35.23	15690.911	1.068	0.664	0.664	1.07	1.24	NO	66.5
42	38 Total-hexafurans	373.8208	35.07	3946.141	1.032	0.170	0.170	1.31	1.24	NO	15.8
43	38 Total-hexafurans	373.8208	34.57	106881.407	1.032	4.610	4.610	1.19	1.24	NO	487.3
44	38 Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.101	1.00	1.24	YES	11.2
45	38 Total-hexafurans	373.8208	33.72	109311.871	1.032	4.715	4.715	1.14	1.24	NO	473.6
46	38 Total-hexafurans	373.8208	33.50	35225.415	1.032	1.519	1.519	1.19	1.24	NO	170.4
47	7 123789-HxCDF	373.8208	37.44	4291.044	0.987	0.000	0.165	0.96	1.24	YES	16.6
48	39 Total-heptafurans	407.7818	40.32	370121.094	1.223	18.605	18.605	0.97	1.05	NO	1664.9
49	39 Total-heptafurans	407.7818	40.03	0.000	1.223	0.000	0.246	0.84	1.05	YES	20.3

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M.L.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
50	8 1234678-HpCDF	407.7818	39.53	213641.297	1.232	9.587	9.587	0.98	1.05	NO	962.8
51	9 1234789-HpCDF	407.7818	42.23	16436.831	1.215	0.000	0.813	0.80	1.05	YES	64.1
52	10 OCDF	441.7428	47.53	431456.297	1.138	33.776	33.776	0.83	0.89	NO	1817.3
53	36 Total-penta1	339.8597	27.48	91738.824		3.424	3.424	1.54	1.55	NO	895.3
54	35 Total-tetrafurans	303.9016	24.30	6181.997	0.877	0.193	0.193	0.66	0.77	NO	26.4
55	35 Total-tetrafurans	303.9016	24.18	4846.221	0.877	0.151	0.151	0.83	0.77	NO	28.0
56	35 Total-tetrafurans	303.9016	24.08	9758.699	0.877	0.305	0.305	0.85	0.77	NO	42.9
57	35 Total-tetrafurans	303.9016	23.91	0.000	0.877	0.000	0.071	0.47	0.77	YES	13.4
58	35 Total-tetrafurans	303.9016	23.82	0.000	0.877	0.000	0.263	0.65	0.77	YES	41.7
59	35 Total-tetrafurans	303.9016	23.72	5733.153	0.877	0.179	0.179	0.79	0.77	NO	24.8
60	35 Total-tetrafurans	303.9016	23.58	0.000	0.877	0.000	0.169	0.56	0.77	YES	16.6
61	35 Total-tetrafurans	303.9016	23.54	0.000	0.877	0.000	0.082	0.51	0.77	YES	17.1
62	35 Total-tetrafurans	303.9016	23.42	24691.440	0.877	0.771	0.771	0.67	0.77	NO	113.8
63	35 Total-tetrafurans	303.9016	22.84	5157.966	0.877	0.161	0.161	0.69	0.77	NO	23.7
64	35 Total-tetrafurans	303.9016	22.58	4481.697	0.877	0.140	0.140	0.75	0.77	NO	23.8
65	35 Total-tetrafurans	303.9016	27.53	2549.263	0.877	0.080	0.080	0.74	0.77	NO	7.6
66	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.294	0.90	0.77	YES	50.0
67	35 Total-tetrafurans	303.9016	26.20	0.000	0.877	0.000	0.107	0.95	0.77	YES	18.6
68	1 2378-TCDF	303.9016	26.06	9074.415	0.877	0.283	0.283	0.83	0.77	NO	46.6
69	35 Total-tetrafurans	303.9016	25.88	2247.266	0.877	0.070	0.070	0.69	0.77	NO	11.2
70	35 Total-tetrafurans	303.9016	25.82	3057.029	0.877	0.095	0.095	0.86	0.77	NO	13.3
71	35 Total-tetrafurans	303.9016	25.59	0.000	0.877	0.000	0.082	0.95	0.77	YES	13.2
72	35 Total-tetrafurans	303.9016	25.38	3930.489	0.877	0.123	0.123	0.80	0.77	NO	21.0
73	35 Total-tetrafurans	303.9016	25.17	7110.314	0.877	0.222	0.222	0.80	0.77	NO	32.6
74	35 Total-tetrafurans	303.9016	24.97	14270.393	0.877	0.445	0.445	0.77	0.77	NO	61.8
75	35 Total-tetrafurans	303.9016	24.82	4460.431	0.877	0.139	0.139	0.72	0.77	NO	22.7
76	35 Total-tetrafurans	303.9016	24.73	9234.376	0.877	0.288	0.288	0.77	0.77	NO	35.8
77	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.730	1.30	1.55	YES	101.5
78	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.395	1.27	1.55	YES	59.2
79	37 Total-pentafurans	339.8597	28.95	7010.607	0.911	0.263	0.263	1.44	1.55	NO	31.4
80	37 Total-pentafurans	339.8597	28.85	0.000	0.911	0.000	0.023	2.15	1.55	YES	8.1
81	3 23478-PeCDF	339.8597	31.56	7277.719	0.926	0.276	0.276	1.41	1.55	NO	29.6
82	37 Total-pentafurans	339.8597	31.41	0.000	0.911	0.000	0.212	1.20	1.55	YES	26.6
83	37 Total-pentafurans	339.8597	31.30	0.000	0.911	0.000	0.131	1.02	1.55	YES	14.1
84	37 Total-pentafurans	339.8597	30.52	2059.800	0.911	0.077	0.077	1.64	1.55	NO	10.5
85	37 Total-pentafurans	339.8597	30.41	5722.638	0.911	0.215	0.215	1.41	1.55	NO	27.8
86	2 12378-PeCDF	339.8597	30.20	5600.596	0.896	0.000	0.183	1.14	1.55	YES	24.5
87	37 Total-pentafurans	339.8597	29.85	12688.105	0.911	0.477	0.477	1.44	1.55	NO	47.0
88	37 Total-pentafurans	339.8597	29.75	0.000	0.911	0.000	0.064	1.90	1.55	YES	11.0
89	37 Total-pentafurans	339.8597	29.63	0.000	0.911	0.000	0.061	0.90	1.55	YES	9.2
90	5 234678-HxCDF	373.8208	36.28	15574.984	1.037	0.702	0.702	1.28	1.24	NO	48.2
91	38 Total-hexafurans	373.8208	35.94	0.000	1.032	0.000	0.012	2.46	1.24	YES	3.9
92	38 Total-hexafurans	373.8208	35.73	0.000	1.032	0.000	0.017	2.14	1.24	YES	3.1
93	6 123678-HxCDF	373.8208	35.37	11771.506	1.035	0.493	0.493	1.23	1.24	NO	53.8
94	4 123478-HxCDF	373.8208	35.23	15690.911	1.068	0.664	0.664	1.07	1.24	NO	66.5
95	38 Total-hexafurans	373.8208	35.07	3946.141	1.032	0.170	0.170	1.31	1.24	NO	15.8
96	38 Total-hexafurans	373.8208	34.57	106881.407	1.032	4.610	4.610	1.19	1.24	NO	487.3
97	38 Total-hexafurans	373.8208	34.26	0.000	1.032	0.000	0.101	1.00	1.24	YES	11.2
98	38 Total-hexafurans	373.8208	33.72	109311.871	1.032	4.715	4.715	1.14	1.24	NO	473.6

VR02: 01100

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rat..	1° Rat..	1° R..	S/N
99	38 Total-hexafurans	373.8208	33.50	35225.415	1.032	1.519	1.519	1.19	1.24	NO	170.4
100	7 123789-HxCDF	373.8208	37.44	4291.044	0.987	0.000	0.165	0.96	1.24	YES	16.6
101	39 Total-heptafurans	407.7818	40.32	370121.094	1.223	18.605	18.605	0.97	1.05	NO	1664.9
102	39 Total-heptafurans	407.7818	40.03	0.000	1.223	0.000	0.246	0.84	1.05	YES	20.3
103	8 1234678-HpCDF	407.7818	39.53	213641.297	1.232	9.587	9.587	0.98	1.05	NO	962.8
104	9 1234789-HpCDF	407.7818	42.23	16436.831	1.215	0.000	0.813	0.80	1.05	YES	64.1
105	10 OCDF	441.7428	47.53	431456.297	1.138	33.776	33.776	0.83	0.89	NO	1817.3
106	36 Total-penta1	339.8597	27.48	91738.824		3.424	3.424	1.54	1.55	NO	895.3

PFK1

	# Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Rat..	1° Rat..	1° R..	S/N
1	48 FUNCTION1 PFK	330.9792	25.88	0.000							1.7
2	48 FUNCTION1 PFK	330.9792	25.05	0.000							0.6
3	48 FUNCTION1 PFK	330.9792	24.81	0.000							1.7
4	48 FUNCTION1 PFK	330.9792	24.14	0.000							0.6
5	48 FUNCTION1 PFK	330.9792	22.94	0.000							0.9
6	48 FUNCTION1 PFK	330.9792	22.76	0.000							1.8
7	48 FUNCTION1 PFK	330.9792	22.19	0.000							0.5
8	48 FUNCTION1 PFK	330.9792	21.89	0.000							1.4
9	48 FUNCTION1 PFK	330.9792	21.70	0.000							1.2
10	48 FUNCTION1 PFK	330.9792	21.25	0.000							1.6
11	48 FUNCTION1 PFK	330.9792	21.15	0.000							1.0
12	48 FUNCTION1 PFK	330.9792	28.24	0.000							0.8
13	48 FUNCTION1 PFK	330.9792	28.18	0.000							1.3
14	48 FUNCTION1 PFK	330.9792	27.77	0.000							0.7
15	48 FUNCTION1 PFK	330.9792	26.54	0.000							1.7
16	48 FUNCTION1 PFK	330.9792	26.32	0.000							0.8

VR82: 01151

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
49	FUNCTION2 PFK	366.9792	29.90	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	29.78	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	29.75	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	29.67	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	29.50	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	29.08	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	28.95	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	28.81	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	28.51	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	28.39	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	32.66	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	32.51	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	32.40	0.000		0.000					2.1
49	FUNCTION2 PFK	366.9792	32.35	0.000		0.000					2.3
49	FUNCTION2 PFK	366.9792	32.08	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	31.91	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	31.68	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	31.55	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	31.15	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	31.03	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	30.86	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	30.57	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.45	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	30.34	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	30.05	0.000		0.000					1.7

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	FUNCTION3 PFK	380.9760	37.40	0.000		0.000					6.6
50	FUNCTION3 PFK	380.9760	37.36	0.000		0.000					6.5
50	FUNCTION3 PFK	380.9760	36.77	0.000		0.000					2.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

PFK4

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
	51 FUNCTION4 PFK	430.9728	40.10	0.000							0.7
	51 FUNCTION4 PFK	430.9728	40.03	0.000							0.9
	51 FUNCTION4 PFK	430.9728	39.73	0.000							1.4
	51 FUNCTION4 PFK	430.9728	39.52	0.000							2.0
	51 FUNCTION4 PFK	430.9728	39.47	0.000							1.0
	51 FUNCTION4 PFK	430.9728	39.30	0.000							0.6
	51 FUNCTION4 PFK	430.9728	39.26	0.000							1.0
	51 FUNCTION4 PFK	430.9728	39.19	0.000							1.5
	51 FUNCTION4 PFK	430.9728	39.16	0.000							1.8
	51 FUNCTION4 PFK	430.9728	39.07	0.000							1.2
	51 FUNCTION4 PFK	430.9728	38.74	0.000							5.3
	51 FUNCTION4 PFK	430.9728	38.61	0.000							9.9
	51 FUNCTION4 PFK	430.9728	44.70	0.000							0.7
	51 FUNCTION4 PFK	430.9728	44.54	0.000							1.1
	51 FUNCTION4 PFK	430.9728	44.36	0.000							1.6
	51 FUNCTION4 PFK	430.9728	44.00	0.000							1.1
	51 FUNCTION4 PFK	430.9728	43.50	0.000							1.0
	51 FUNCTION4 PFK	430.9728	43.27	0.000							0.8
	51 FUNCTION4 PFK	430.9728	42.82	0.000							1.6
	51 FUNCTION4 PFK	430.9728	42.52	0.000							0.7
	51 FUNCTION4 PFK	430.9728	42.31	0.000							0.8
	51 FUNCTION4 PFK	430.9728	41.80	0.000							0.7
	51 FUNCTION4 PFK	430.9728	41.75	0.000							0.9
	51 FUNCTION4 PFK	430.9728	41.63	0.000							1.3
	51 FUNCTION4 PFK	430.9728	41.30	0.000							1.3
	51 FUNCTION4 PFK	430.9728	41.21	0.000							1.6
	51 FUNCTION4 PFK	430.9728	41.06	0.000							0.8

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

PFK5

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
	52	FUNCTION5 PFK	480.9696	46.47	0.000								0.8
	52	FUNCTION5 PFK	480.9696	46.37	0.000								0.8
	52	FUNCTION5 PFK	480.9696	46.20	0.000								1.0
	52	FUNCTION5 PFK	480.9696	46.00	0.000								0.8
	52	FUNCTION5 PFK	480.9696	45.96	0.000								1.2
	52	FUNCTION5 PFK	480.9696	45.91	0.000								1.6
	52	FUNCTION5 PFK	480.9696	45.85	0.000								2.1
	52	FUNCTION5 PFK	480.9696	45.76	0.000								1.9
	52	FUNCTION5 PFK	480.9696	45.73	0.000								1.8
	52	FUNCTION5 PFK	480.9696	45.65	0.000								0.9
	52	FUNCTION5 PFK	480.9696	45.61	0.000								1.0
	52	FUNCTION5 PFK	480.9696	45.56	0.000								1.8
	52	FUNCTION5 PFK	480.9696	45.37	0.000								0.4
	52	FUNCTION5 PFK	480.9696	45.14	0.000								1.6
	52	FUNCTION5 PFK	480.9696	45.11	0.000								1.7
	52	FUNCTION5 PFK	480.9696	45.08	0.000								1.0
	52	FUNCTION5 PFK	480.9696	47.52	0.000								0.6
	52	FUNCTION5 PFK	480.9696	47.50	0.000								0.7
	52	FUNCTION5 PFK	480.9696	47.25	0.000								0.9
	52	FUNCTION5 PFK	480.9696	47.22	0.000								0.9
	52	FUNCTION5 PFK	480.9696	47.13	0.000								1.5
	52	FUNCTION5 PFK	480.9696	47.04	0.000								2.3
	52	FUNCTION5 PFK	480.9696	46.95	0.000								2.5
	52	FUNCTION5 PFK	480.9696	46.89	0.000								2.0
	52	FUNCTION5 PFK	480.9696	46.83	0.000								2.2
	52	FUNCTION5 PFK	480.9696	46.78	0.000								1.7
	52	FUNCTION5 PFK	480.9696	46.74	0.000								1.2
	52	FUNCTION5 PFK	480.9696	46.70	0.000								0.7
	52	FUNCTION5 PFK	480.9696	46.64	0.000								1.1
	52	FUNCTION5 PFK	480.9696	46.57	0.000								0.9
	52	FUNCTION5 PFK	480.9696	46.53	0.000								1.5
	52	FUNCTION5 PFK	480.9696	46.48	0.000								0.6
	52	FUNCTION5 PFK	480.9696	48.91	0.000								1.3
	52	FUNCTION5 PFK	480.9696	48.84	0.000								1.3
	52	FUNCTION5 PFK	480.9696	48.74	0.000								0.6
	52	FUNCTION5 PFK	480.9696	48.71	0.000								1.2
	52	FUNCTION5 PFK	480.9696	48.64	0.000								1.6
	52	FUNCTION5 PFK	480.9696	48.58	0.000								1.5
	52	FUNCTION5 PFK	480.9696	48.53	0.000								0.8
	52	FUNCTION5 PFK	480.9696	48.39	0.000								1.4
	52	FUNCTION5 PFK	480.9696	48.33	0.000								1.7
	52	FUNCTION5 PFK	480.9696	48.10	0.000								0.6
	52	FUNCTION5 PFK	480.9696	48.06	0.000								1.2
	52	FUNCTION5 PFK	480.9696	48.02	0.000								1.2
	52	FUNCTION5 PFK	480.9696	47.81	0.000								0.6
	52	FUNCTION5 PFK	480.9696	47.74	0.000								1.0
	52	FUNCTION5 PFK	480.9696	47.65	0.000								0.5
	52	FUNCTION5 PFK	480.9696	47.61	0.000								1.2
	52	FUNCTION5 PFK	480.9696	48.97	0.000								1.3

VR82: 01164

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
53	FUNCTION1 HXCD...	375.8364	28.01	0.000		0.000					3.0
53	FUNCTION1 HXCD...	375.8364	25.94	0.000		0.000					4.9
53	FUNCTION1 HXCD...	375.8364	23.94	0.000		0.000					4.6
53	FUNCTION1 HXCD...	375.8364	23.90	0.000		0.000					4.9

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	27.48	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	27.12	0.000		0.000					3.4
54	FUNCTION1 HPCD...	409.7974	25.82	0.000		0.000					2.7
54	FUNCTION1 HPCD...	409.7974	25.36	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	24.99	0.000		0.000					3.2
54	FUNCTION1 HPCD...	409.7974	23.94	0.000		0.000					3.4
54	FUNCTION1 HPCD...	409.7974	22.85	0.000		0.000					6.0
54	FUNCTION1 HPCD...	409.7974	21.88	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	21.36	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	27.84	0.000		0.000					1.4

ETHERS3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
55	FUNCTION2 HPCD...	409.7974	29.86	0.000		0.000					6.3
55	FUNCTION2 HPCD...	409.7974	29.81	0.000		0.000					3.5
55	FUNCTION2 HPCD...	409.7974	29.63	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	29.53	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	28.91	0.000		0.000					3.6

ETHERS4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
56	FUNCTION3 OCDPE	445.7555	36.30	0.000		0.000					5.3

ETHERS5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
57	FUNCTION4 NCDPE	479.7165	43.90	0.000		0.000					3.2
57	FUNCTION4 NCDPE	479.7165	39.12	0.000		0.000					751.7

ETHERS6

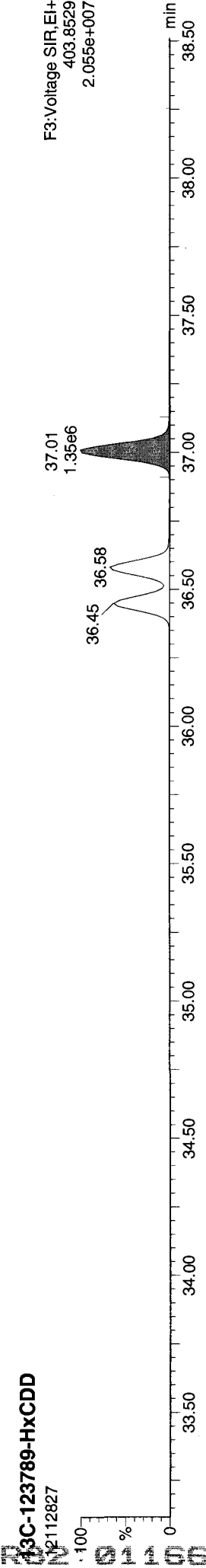
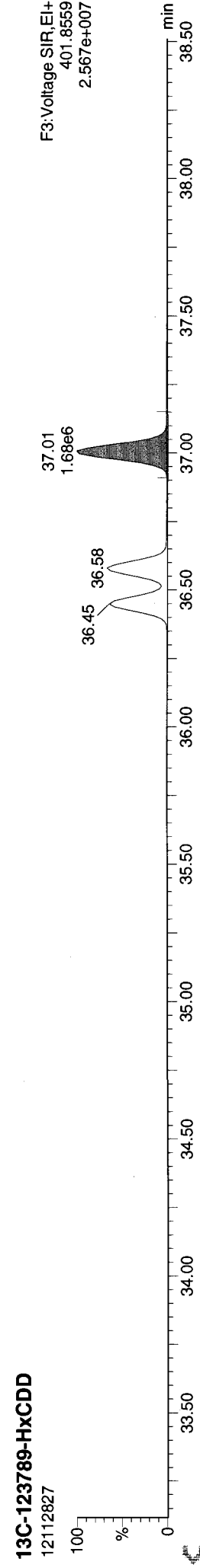
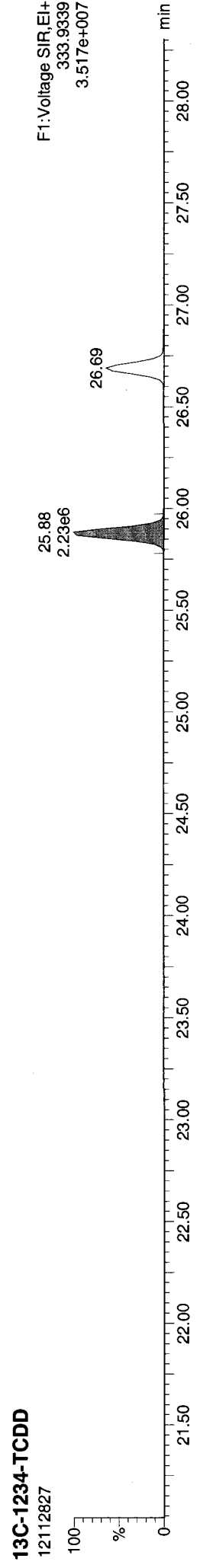
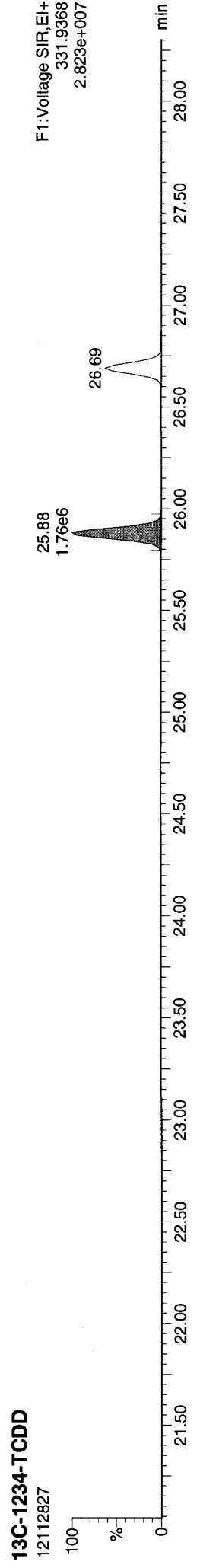
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Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

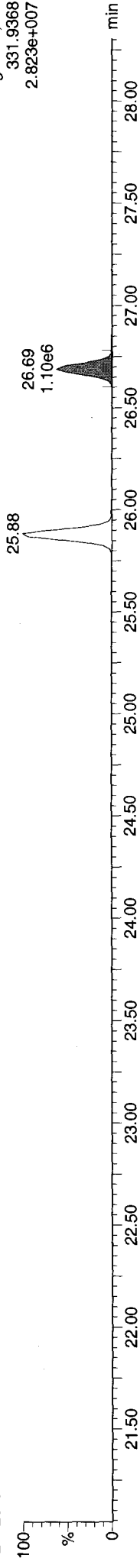
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

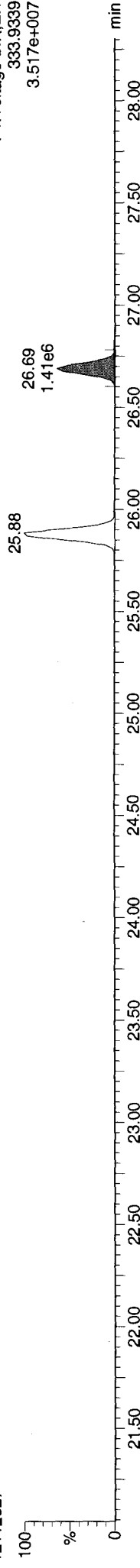
13C-2378-TCDD

12112827



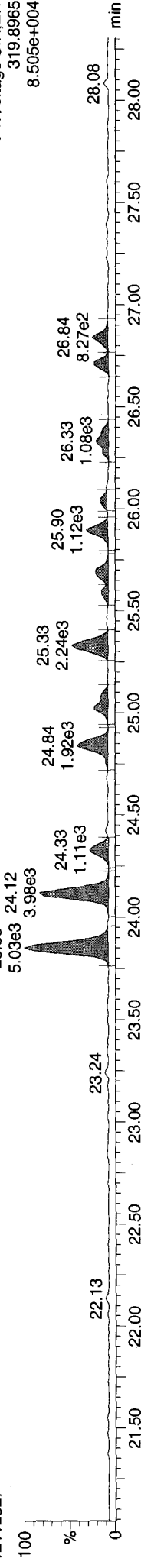
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12112827



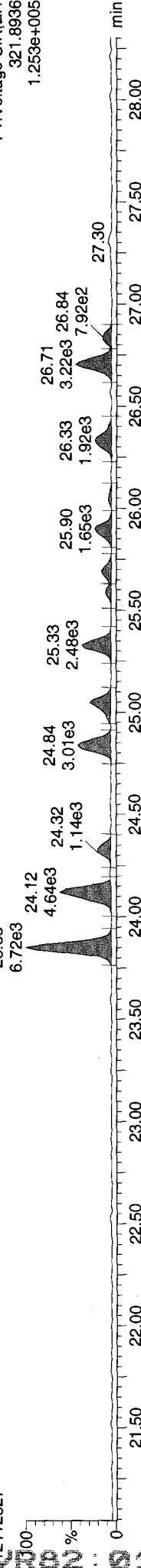
Total-tetradoxins

12112827



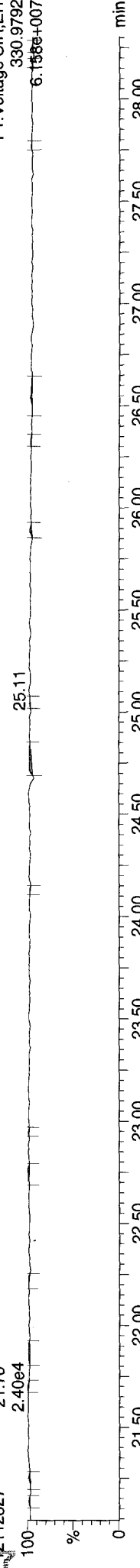
Total-tetradoxins

12112827



FUNCTION1 PFK

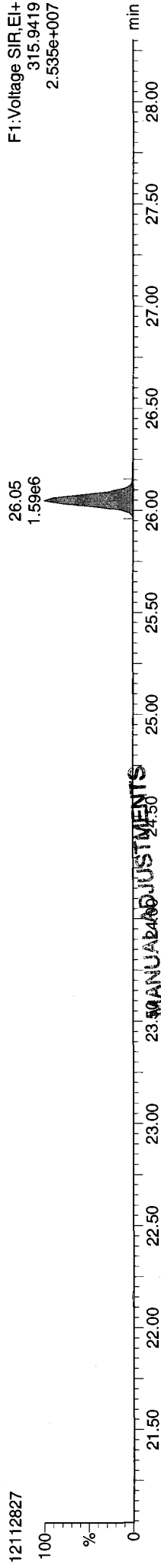
12112827



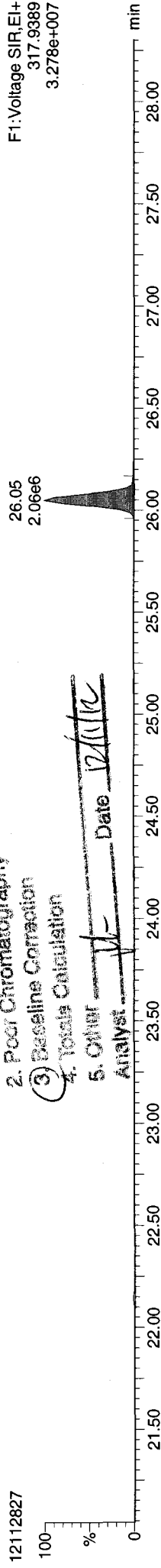
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



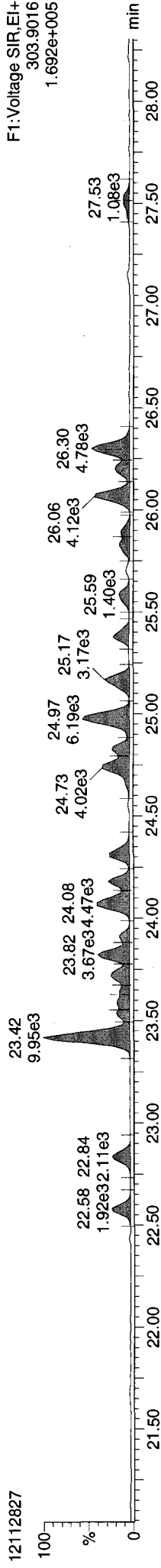
13C-2378-TCDF



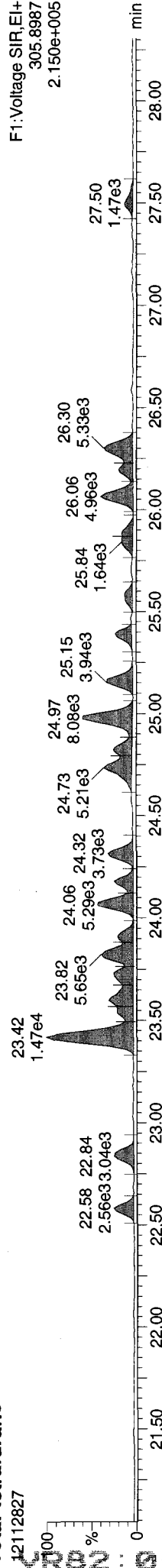
- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other

Analyst: *[Signature]* Date: 12/11/12

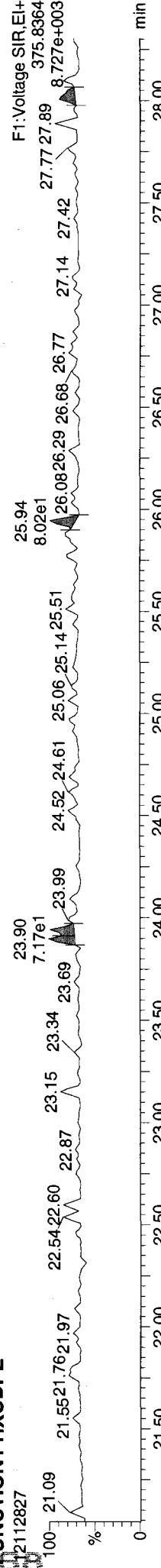
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE

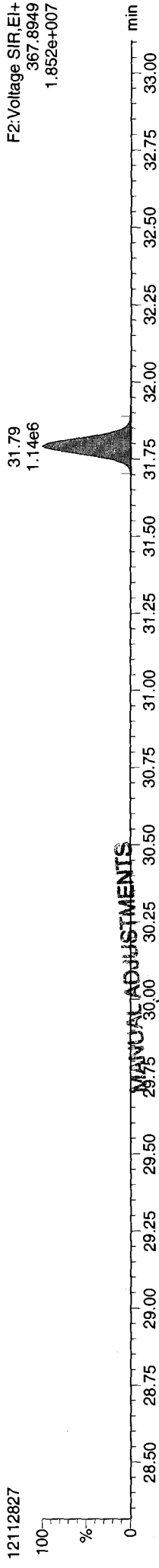


Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

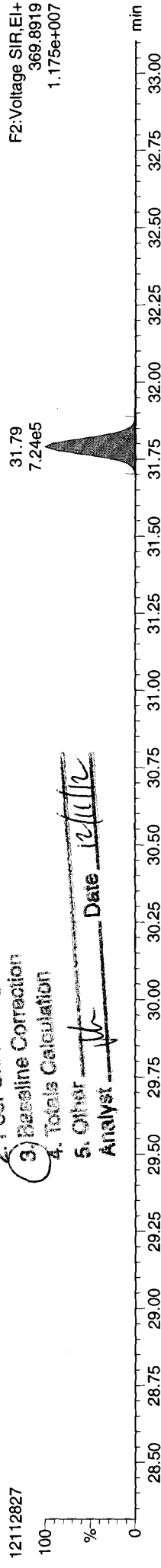
13C-12378-PeCDD



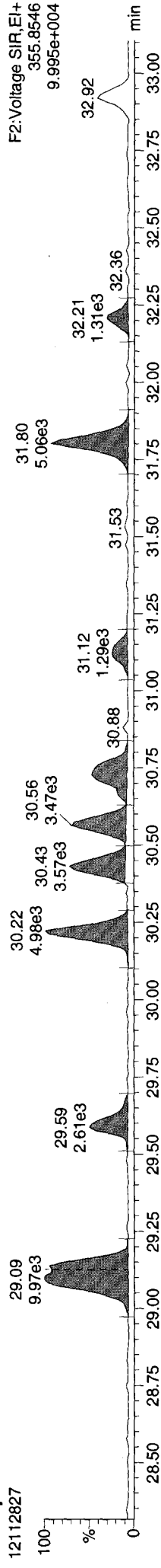
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other *[Signature]* Date *12/11/12*

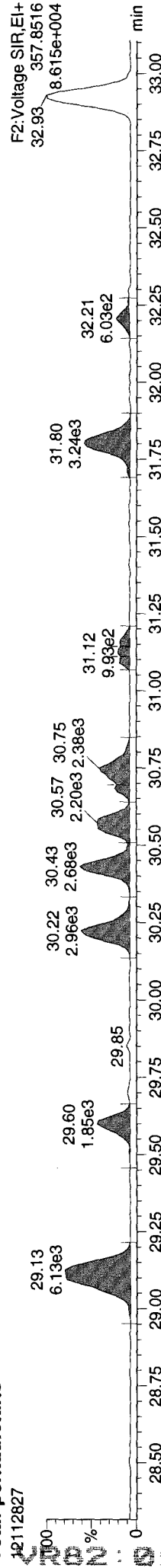
13C-12378-PeCDD



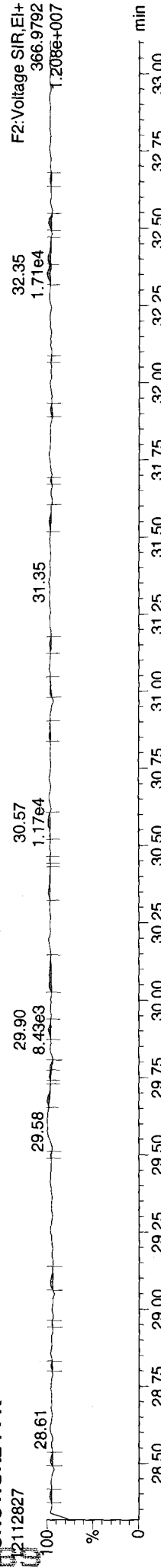
Total-pentadioxins



Total-pentadioxins



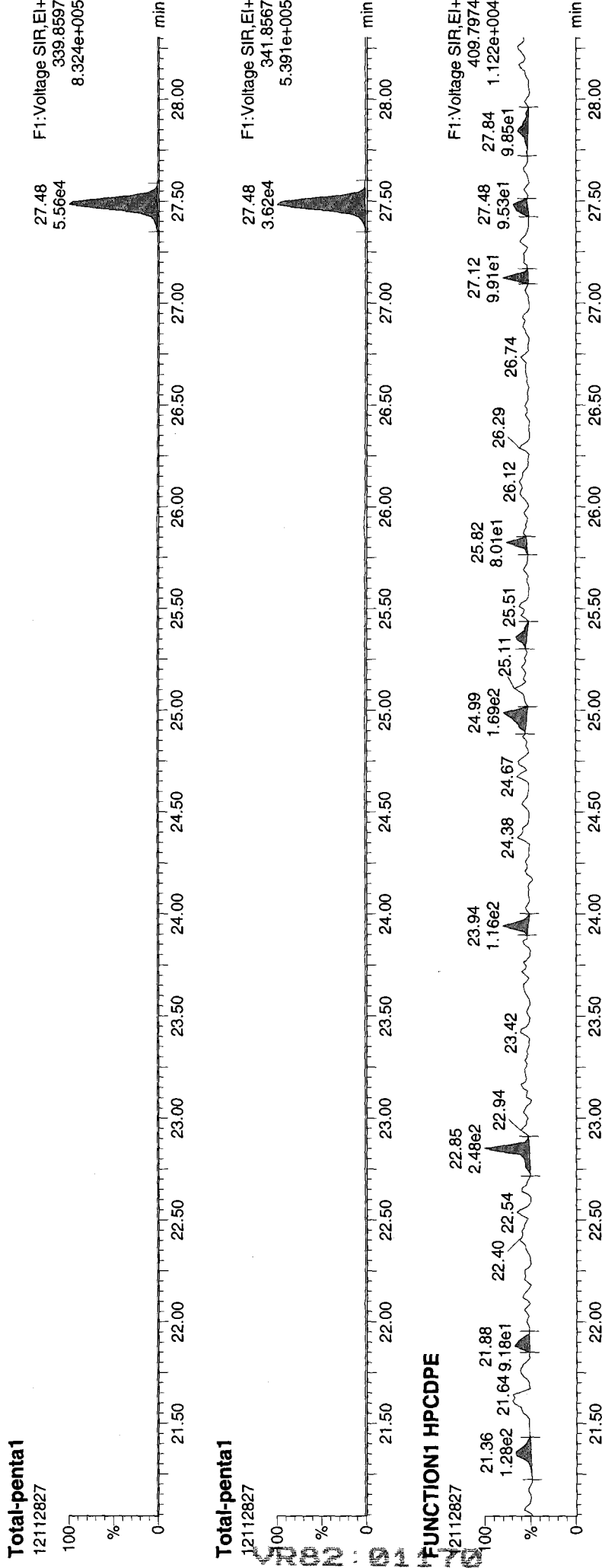
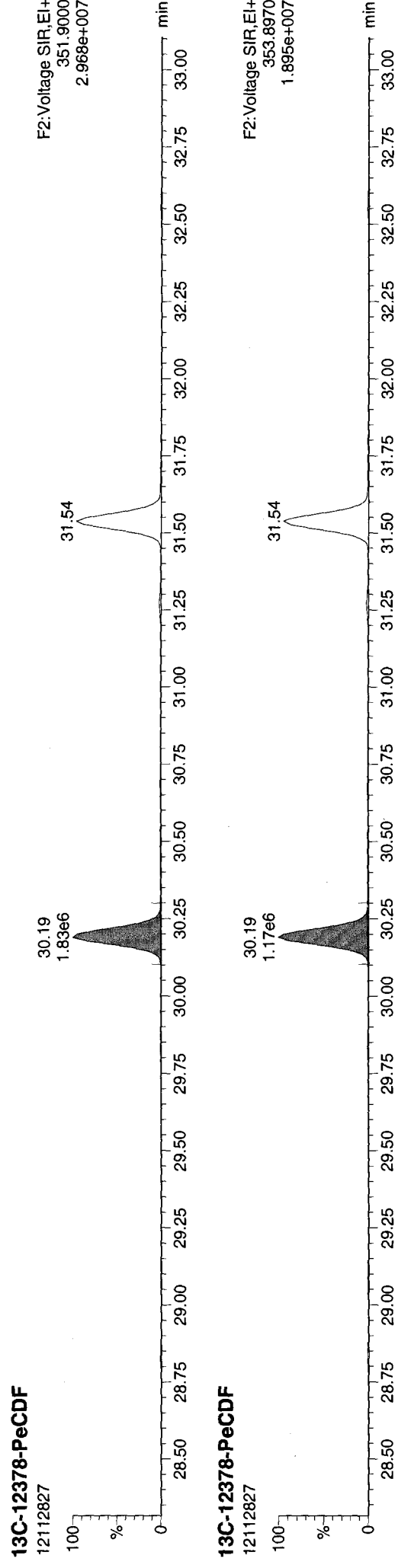
FUNCTION2 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

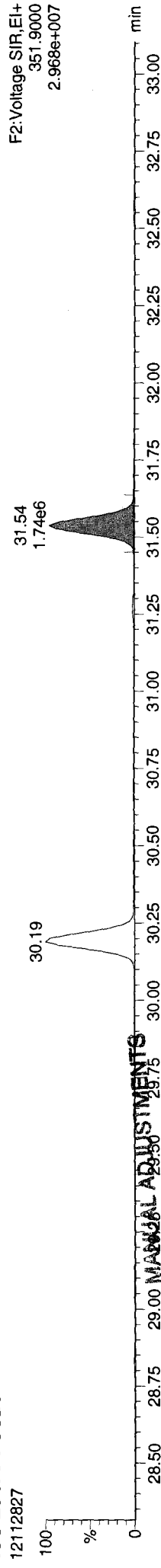


Quantify Sample Report MassLynx 4.1 SCN 714

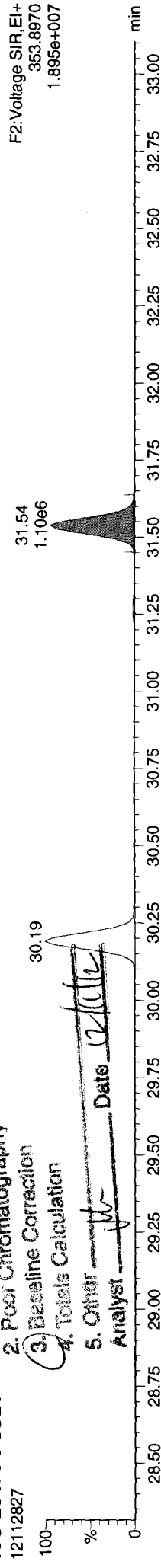
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

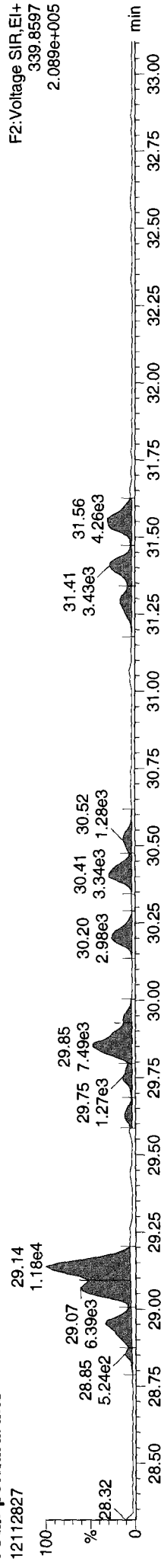
13C-23478-PeCDF



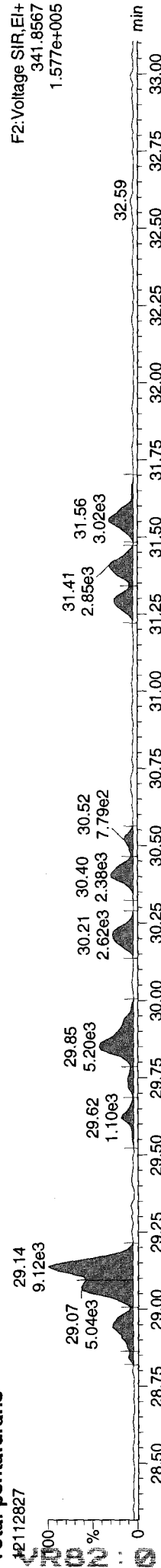
13C-23478-PeCDF



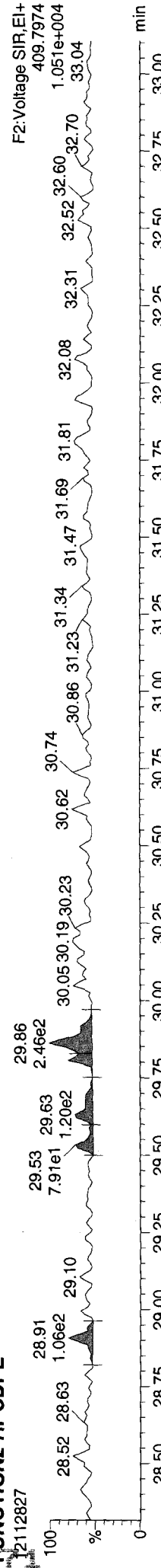
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



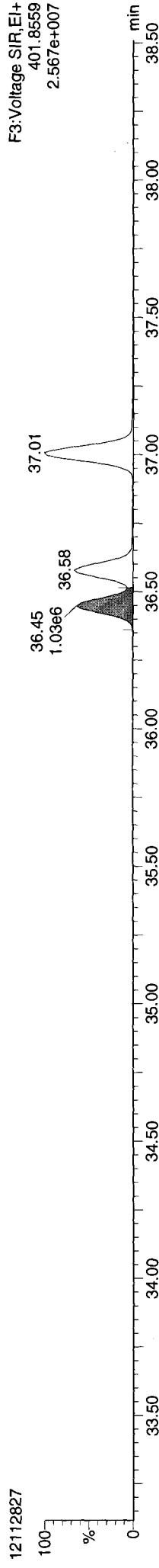
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

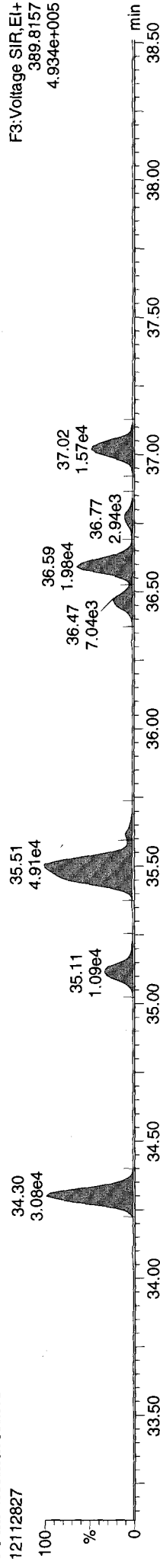
13C-123478-HxCDD



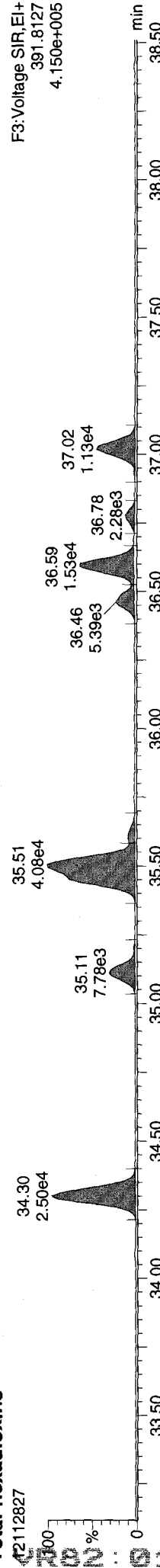
13C-123478-HxCDD



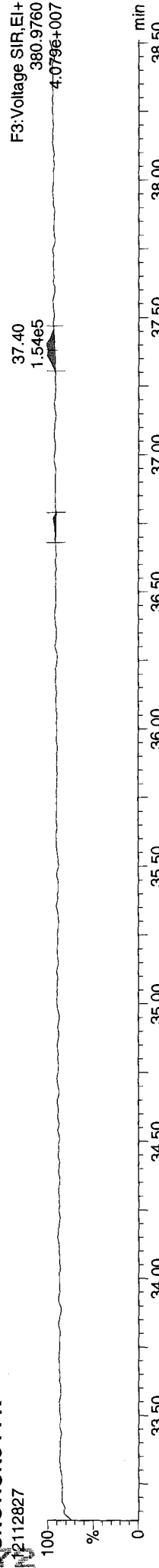
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

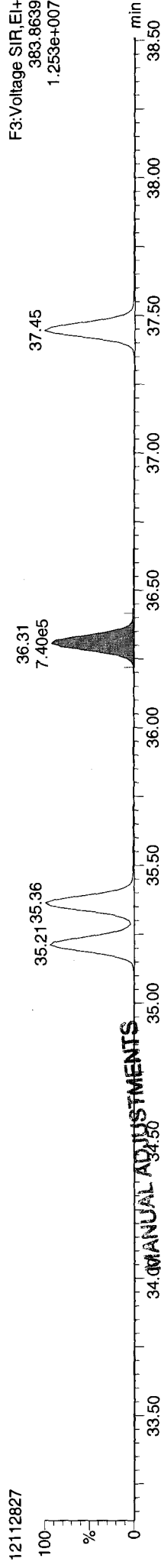


Quantify Sample Report MassLynx 4.1 SCN 714

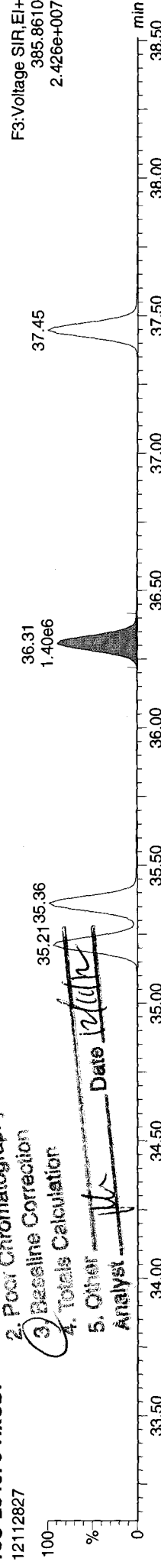
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF

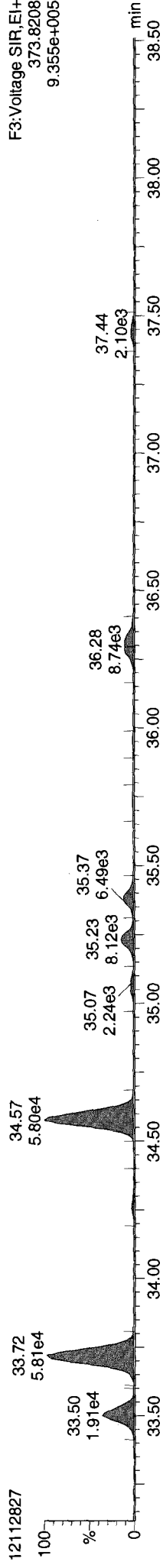


13C-234678-HxCDF

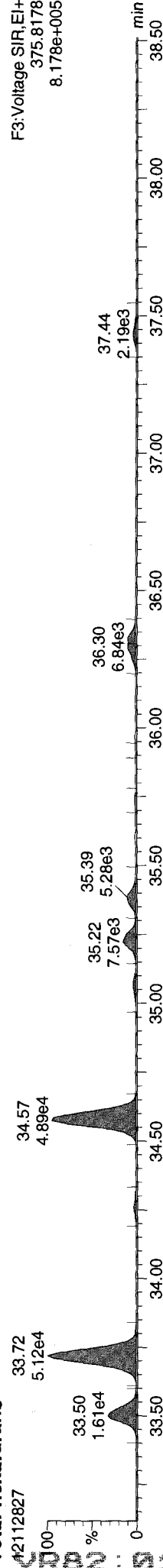


- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other
- Analyst: *[Signature]* Date: *12/11/12*

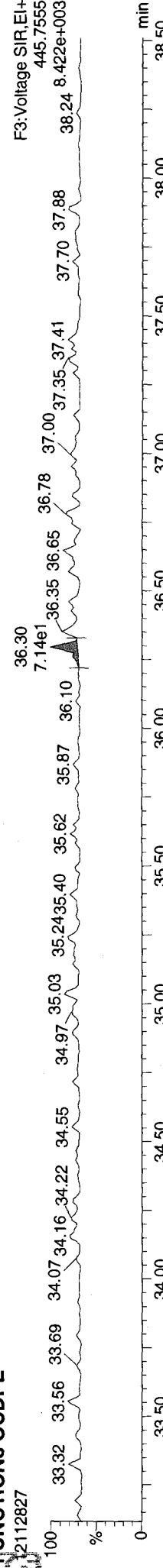
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



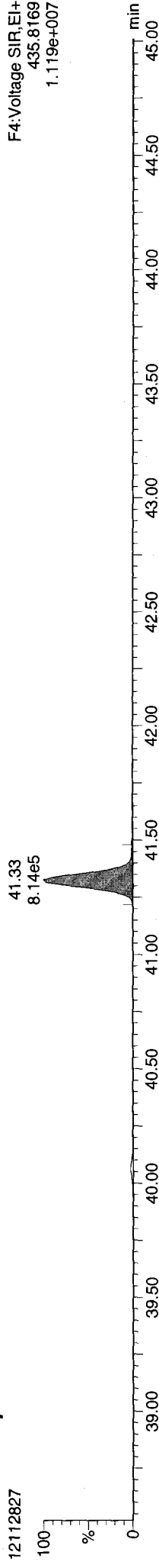
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

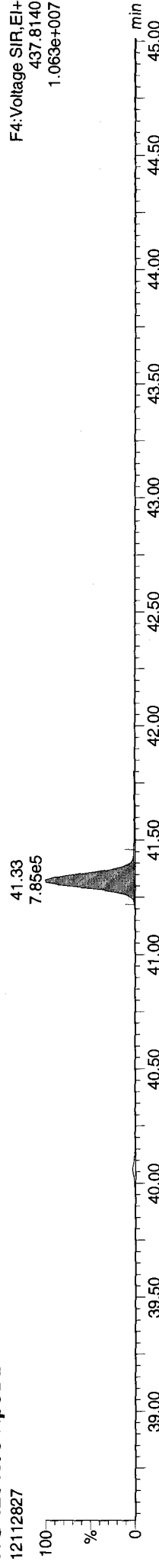
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

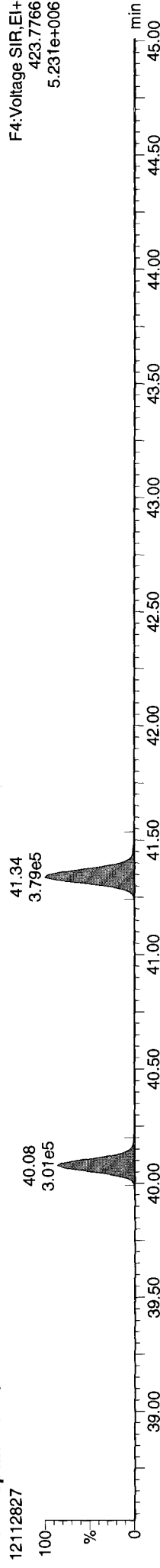
13C-1234678-HpCDD



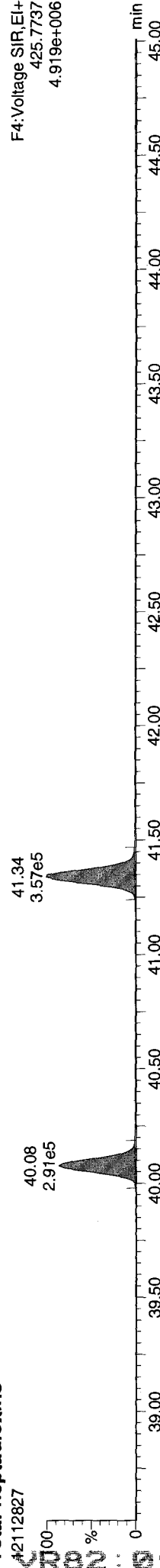
13C-1234678-HpCDD



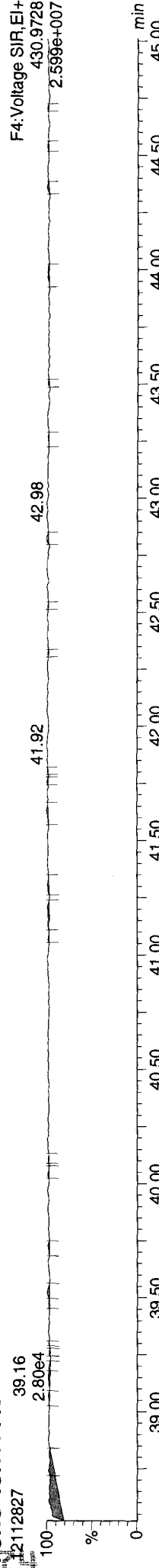
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

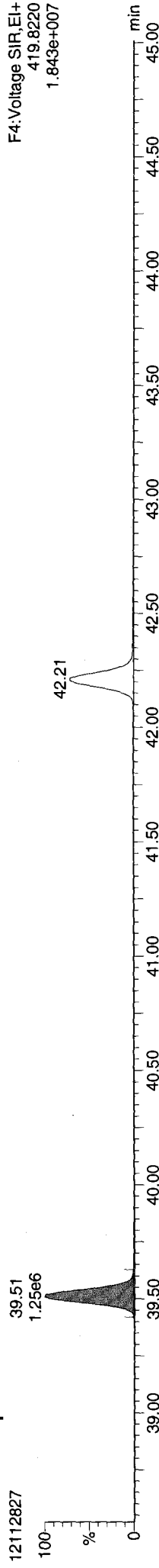
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

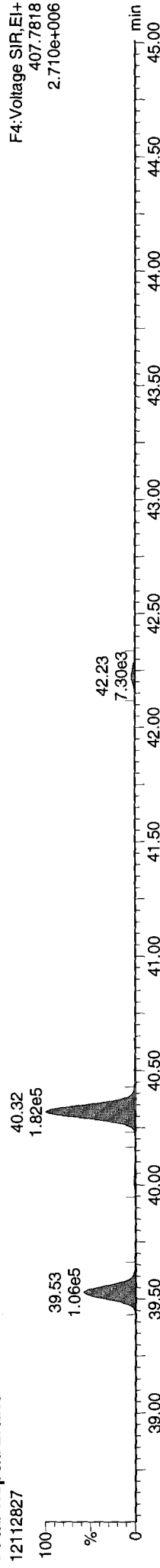
13C-1234678-HpCDF



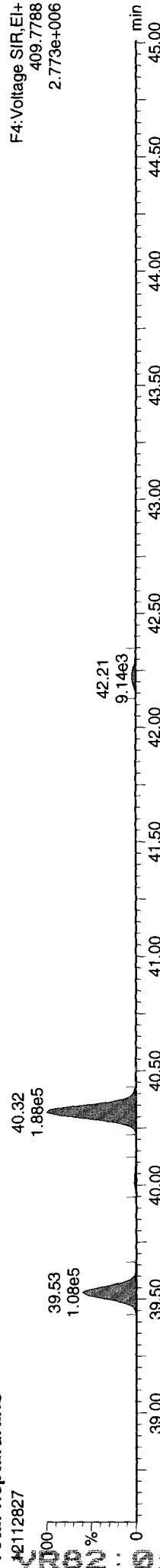
13C-1234678-HpCDF



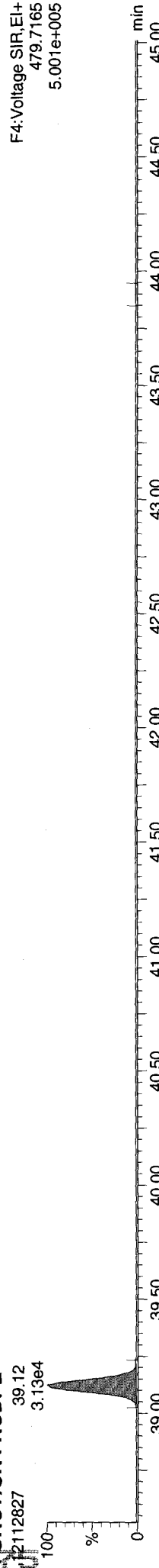
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

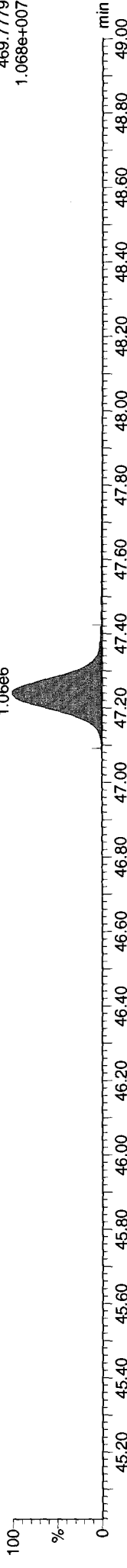
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112827

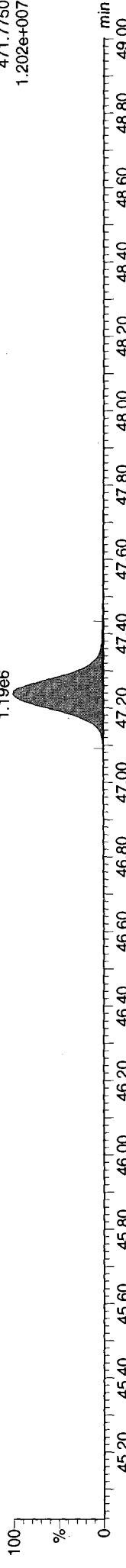
F5: Voltage SIR, EI+
469.7779
1.068e+007



13C-OCDD

12112827

F5: Voltage SIR, EI+
471.7750
1.202e+007



OCDD

12112827

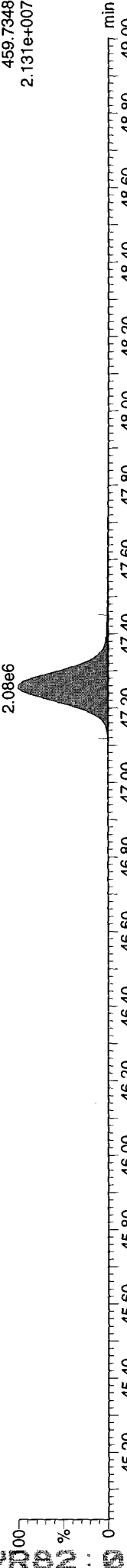
F5: Voltage SIR, EI+
457.7377
1.906e+007



OCDD

12112827

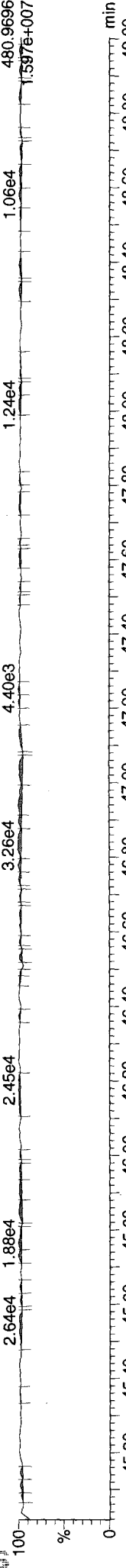
F5: Voltage SIR, EI+
459.7348
2.131e+007



FUNCTION5 PFK

12112827

F5: Voltage SIR, EI+
480.9696
1.597e+007



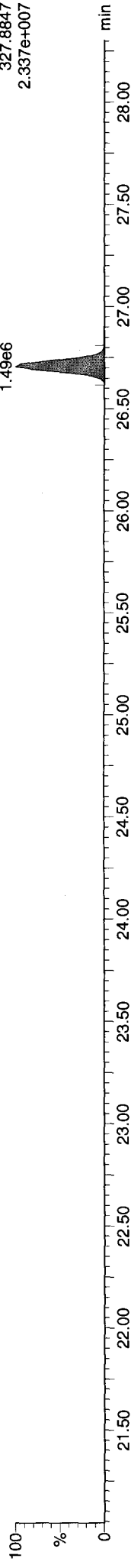
Dataset: P:\DIOXIN8290.PROV\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:21:45 Pacific Standard Time

Name: 12112827, Date: 29-Nov-2012, Time: 08:52:31, ID: VR82H, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

12112827

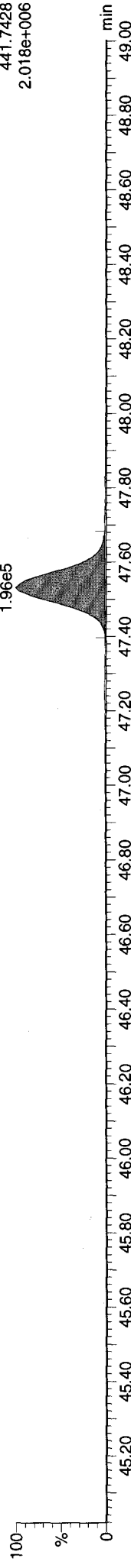
F1: Voltage SIR, EI+
327.8847
2.337e+007



OCDF

12112827

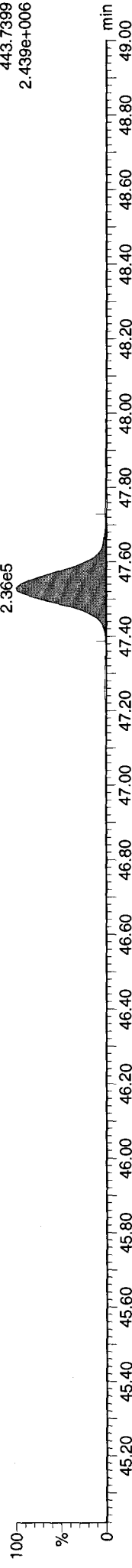
F5: Voltage SIR, EI+
441.7428
2.018e+006



OCDF

12112827

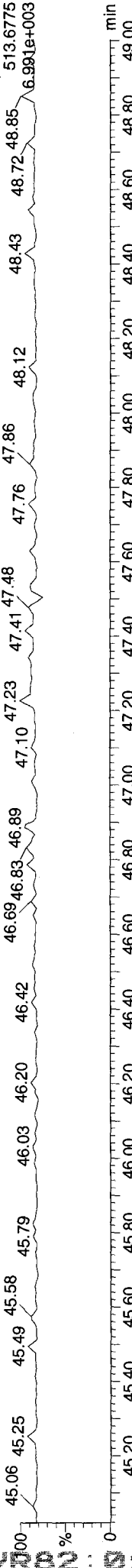
F5: Voltage SIR, EI+
443.7399
2.439e+006



FUNCTION5 DCDPE

12112827

F5: Voltage SIR, EI+
513.6775
6.991e+003



12112827

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Method: P:\DIOXIN8290.PROMethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	Noise 1	Noise 2	Height 1	Height 2	EMPC?	EMPC	pg
2378-TCDF	26.079	1.001	4.57e3	6.31e3	0.877	0.724	0.770	22.3	3247	2106	7.25e4	9.49e4	NO	0.398	0.398
12378-PeCDF	30.212	1.001	4.05e3	2.27e3	0.896	1.786	1.550	23.7	2657	1786	6.29e4	3.26e4	YES	0.268	0.293
23478-PeCDF	31.549	1.000	3.69e3	2.65e3	0.926	1.391	1.550	23.9	2657	1786	6.36e4	4.71e4	NO	0.291	0.291
123478-HxCDF	35.244	1.001	7.68e3	7.01e3	1.068	1.096	1.240	56.4	1900	1502	1.07e5	1.16e5	NO	0.724	0.724
234678-HxCDF	36.329	1.000	9.00e3	7.81e3	1.037	1.153	1.240	59.3	1900	1502	1.13e5	7.68e4	NO	0.885	0.885
123678-HxCDF	35.386	1.001	6.88e3	5.91e3	1.035	1.165	1.240	55.6	1900	1502	1.06e5	1.00e5	NO	0.622	0.622
123789-HxCDF	37.458	1.000	2.72e3	2.34e3	0.987	1.161	1.240	18.6	1900	1502	3.53e4	3.15e4	NO	0.252	0.252
1234678-HpCDF	39.529	1.000	8.19e4	8.58e4	1.232	0.954	1.050	724.9	1710	1031	1.24e6	1.33e6	NO	8.977	8.977
1234789-HpCDF	42.237	1.000	4.51e3	5.57e3	1.215	0.811	1.050	34.2	1710	1031	5.85e4	7.61e4	YES	0.591	0.591
OCDF	47.541	1.006	1.17e5	1.39e5	1.138	0.843	0.890	739.4	1568	922	1.16e6	1.35e6	NO	23.665	23.665
2378-TCDD	26.706	1.001	1.19e3	3.08e3	1.049	0.385	0.770	16.2	996	1185	1.62e4	4.22e4	YES	0.121	0.189
12378-PeCDD	31.813	1.001	6.01e3	3.72e3	0.998	1.615	1.550	47.5	1721	1186	8.18e4	4.97e4	NO	0.628	0.628
123478-HxCDD	36.471	1.001	7.32e3	5.73e3	0.971	1.279	1.240	75.1	1540	1078	1.16e5	8.62e4	NO	0.867	0.867
123678-HxCDD	36.603	1.001	2.20e4	1.73e4	0.918	1.270	1.240	215.3	1540	1078	3.31e5	2.65e5	NO	2.554	2.554
123789-HxCDD	37.019	1.012	1.49e4	1.21e4	0.932	1.226	1.240	150.8	1540	1078	2.32e5	1.84e5	NO	1.797	1.797
1234678-HpCDD	41.349	1.000	3.66e5	3.58e5	1.017	1.023	1.050	1397.5	3498	3423	4.89e6	4.75e6	NO	52.057	52.057
OCDD	47.263	1.000	1.83e6	2.06e6	1.008	0.887	0.890	7719.4	2427	2831	1.87e7	2.12e7	NO	404.853	404.853
13C-2378-TCDF	26.049	1.006	1.37e6	1.76e6	1.473	0.778	0.770	9015.6	2329	2103	2.10e7	2.69e7	NO	51.067	51.067
13C-12378-PeCDF	30.190	1.166	1.47e6	9.34e5	1.148	1.578	1.550	7863.5	3001	2806	2.96e7	1.51e7	NO	50.493	50.493
13C-23478-PeCDF	31.538	1.218	1.44e6	9.13e5	1.113	1.577	1.550	7751.6	3001	2806	2.33e7	1.48e7	NO	50.932	50.932
13C-123478-HxCDF	35.211	0.951	6.40e5	1.26e6	1.209	0.509	0.510	2607.8	3800	4694	9.91e6	1.95e7	NO	49.561	49.561
13C-123678-HxCDF	35.364	0.956	6.73e5	1.31e6	1.269	0.512	0.510	2737.9	3800	4694	1.04e7	2.02e7	NO	49.465	49.465
13C-234678-HxCDF	36.318	0.981	6.23e5	1.21e6	1.236	0.515	0.510	2450.1	3800	4694	9.31e6	1.83e7	NO	46.842	46.842
13C-123789-HxCDF	37.447	1.012	7.01e5	1.33e6	1.107	0.526	0.510	2756.4	3800	4694	1.05e7	1.99e7	NO	58.019	58.019
13C-1234678-HpCDF	39.519	1.068	4.66e5	1.05e6	1.051	0.444	0.440	3431.3	2078	2332	7.13e6	1.61e7	NO	45.545	45.545
13C-1234789-HpCDF	42.215	1.141	3.78e5	8.50e5	0.815	0.445	0.440	2393.3	2078	2332	4.97e6	1.11e7	NO	47.593	47.593
13C-1234-TCDD	25.884	0.000	1.83e6	2.33e6	1.000	0.785	0.770	9218.1	3213	1971	2.96e7	3.78e7	NO	100.000	100.000
13C-2378-TCDD	26.691	1.031	9.39e5	1.21e6	0.946	0.778	0.770	4668.7	3213	1971	1.50e7	1.94e7	NO	54.645	54.645
13C-12378-PeCDD	31.791	1.228	9.48e5	6.04e5	0.721	1.571	1.550	9563.7	1586	1047	1.52e7	9.72e6	NO	51.851	51.851
13C-123478-HxCDD	36.449	0.985	8.66e5	6.85e5	0.991	1.263	1.240	6709.9	1977	2449	1.33e7	1.06e7	NO	49.431	49.431
13C-123678-HxCDD	36.581	0.988	9.30e5	7.49e5	1.025	1.242	1.240	7129.1	1977	2449	1.41e7	1.13e7	NO	51.719	51.719
13C-1234678-HpCDD	41.327	1.117	6.95e5	6.73e5	0.866	1.033	1.050	4093.2	2339	2438	9.57e6	9.13e6	NO	49.880	49.880
13C-OCDD	47.244	1.277	9.11e5	9.96e5	0.769	0.914	0.890	5240.5	1742	1879	9.13e6	1.02e7	NO	78.294	78.294

pk 12/11/12

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR821, Conditions: AUTOSPEC01, User: pk

Name	BT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	Noise 1	Noise 2	Height 1	Height 2	EMPC1	EMPC2	pg
34	13C-123789-HxCDD	37.008	1.75e6	1.42e6	1.000	1.232	1.240	13707.6	1977	2449	2.71e7	2.17e7	NO		100.000
35	Total-tetrafurans		4.62e4	0.877					3247		7.08e5			6.192	3.943
36	Total-penta1		5.86e4						1039		8.49e5			4.518	4.518
37	Total-penta1		2.20e4	0.911					2657		3.16e5			4.156	1.714
38	Total-hexa1		1.66e5	1.032					1900		2.57e6			15.547	15.489
39	Total-hepta1		2.22e5	1.223					1710		3.29e6			26.772	25.914
40	Total-Furans		6.32e5	1.041					3247		8.89e6			80.851	75.243
41	Total-tetra1		1.33e4	1.049					996		2.09e5			2.089	1.323
42	Total-penta1		3.00e4	0.998					1721		4.84e5			4.020	2.220
43	Total-hexa1		1.48e5	0.940					1540		2.01e6			17.745	17.453
44	Total-hepta1		6.84e5	1.017					3498		9.56e6			96.716	96.716
45	Total-Dioxins		3.09e7	0.985					996		4.35e8			80.851	75.243
46	Total-TEQ		3.15e7						996		4.43e8			161.701	150.485
47	37CL-2378-TCDD	26.706	1.46e6	1.044				15214.5	1466		2.23e7				33.719
48	FUNCTION1 PFK		1.63e6						746593		3.17e7				
49	FUNCTION2 PFK		0.00e0						201033		0.00e0				0.000
50	FUNCTION3 PFK		3.46e5						487751		6.83e6				
51	FUNCTION4 PFK		1.43e6						340923		1.24e7				
52	FUNCTION5 PFK		9.62e4						292415		3.38e6				
53	FUNCTION1 HXCDPE		7.76e2						592		1.60e4				0.000
54	FUNCTION1 HPCDPE		5.84e2						788		1.36e4				0.000
55	FUNCTION2 HPCDPE		4.84e2						798		9.28e3				0.000
56	FUNCTION3 OCDPE		0.00e0						390		0.00e0				0.000
57	FUNCTION4 NCDPE		3.85e4						736		6.03e5				0.000
58	FUNCTION5 DCDPE		0.00e0						357		0.00e0				0.000

6232

8.676

121128

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123ICAL.cdb 26 Nov 2012 09:23:13

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
35	Total-tetrafurans	303.9016	24.32	6937.191	0.877	0.253	0.253	0.83	0.77	NO	15.9
35	Total-tetrafurans	303.9016	24.17	5542.393	0.877	0.202	0.202	0.87	0.77	NO	12.3
35	Total-tetrafurans	303.9016	24.08	11294.310	0.877	0.413	0.413	0.80	0.77	NO	26.7
35	Total-tetrafurans	303.9016	23.91	4232.449	0.877	0.155	0.155	0.78	0.77	NO	11.0
35	Total-tetrafurans	303.9016	23.84	0.000	0.877	0.000	0.317	0.64	0.77	YES	16.6
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.241	0.94	0.77	YES	13.2
35	Total-tetrafurans	303.9016	23.61	10695.416	0.877	0.391	0.391	0.88	0.77	NO	14.8
35	Total-tetrafurans	303.9016	23.42	0.000	0.877	0.000	0.963	0.65	0.77	YES	55.4
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.170	0.65	0.77	YES	10.4
35	Total-tetrafurans	303.9016	22.58	4616.284	0.877	0.169	0.169	0.74	0.77	NO	10.3
35	Total-tetrafurans	303.9016	27.50	2814.102	0.877	0.103	0.103	0.67	0.77	NO	3.4
35	Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.376	0.64	0.77	YES	20.4
35	Total-tetrafurans	303.9016	26.20	4978.248	0.877	0.182	0.182	0.70	0.77	NO	10.1
1	2378-TCDF	303.9016	26.08	10883.167	0.877	0.398	0.398	0.72	0.77	NO	22.3
35	Total-tetrafurans	303.9016	25.90	2993.719	0.877	0.109	0.109	0.85	0.77	NO	6.2
35	Total-tetrafurans	303.9016	25.56	0.000	0.877	0.000	0.106	0.92	0.77	YES	5.6
35	Total-tetrafurans	303.9016	25.38	4579.821	0.877	0.167	0.167	0.70	0.77	NO	9.6
35	Total-tetrafurans	303.9016	25.15	8223.755	0.877	0.300	0.300	0.66	0.77	NO	15.9
35	Total-tetrafurans	303.9016	24.99	14736.046	0.877	0.538	0.538	0.70	0.77	NO	30.5
35	Total-tetrafurans	303.9016	24.82	4723.174	0.877	0.173	0.173	0.71	0.77	NO	11.1
35	Total-tetrafurans	303.9016	24.75	10680.253	0.877	0.390	0.390	0.68	0.77	NO	18.2
35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.077	0.44	0.77	YES	5.5

PP

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
36	Total-penta1	339.8597	27.50	98612.363		4.518	4.518	1.46	1.55	NO	816.6

PF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1° Rat.	1° Rat.	1° R.	S/N
3	23478-PeCDF	339.8597	31.55	6339.183	0.926	0.291	0.291	1.39	1.55	NO	23.9
37	Total-pentafurans	339.8597	31.41	7303.792	0.911	0.337	0.337	1.64	1.55	NO	23.0
37	Total-pentafurans	339.8597	31.30	4455.058	0.911	0.205	0.205	1.57	1.55	NO	16.0
37	Total-pentafurans	339.8597	30.51	0.000	0.911	0.000	0.088	2.11	1.55	YES	10.4
37	Total-pentafurans	339.8597	30.41	5812.953	0.911	0.268	0.268	1.41	1.55	NO	20.9
2	12378-PeCDF	339.8597	30.21	6316.022	0.896	0.000	0.268	1.79	1.55	YES	23.7
37	Total-pentafurans	339.8597	29.85	13285.251	0.911	0.613	0.613	1.36	1.55	NO	34.9
37	Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.063	2.09	1.55	YES	6.4
37	Total-pentafurans	339.8597	29.64	0.000	0.911	0.000	0.072	0.95	1.55	YES	5.2
37	Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.028	1.21	1.55	YES	2.9
37	Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.987	1.18	1.55	YES	88.3
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.524	2.09	1.55	YES	59.4
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.411	1.23	1.55	YES	25.1

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

HF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
1	38 Total-hexafurans	373.8208	35.07	4811.433	1.032	0.241	0.241	1.07	1.24	NO	23.7
2	38 Total-hexafurans	373.8208	34.59	107514.149	1.032	5.378	5.378	1.13	1.24	NO	465.0
3	38 Total-hexafurans	373.8208	34.27	2654.917	1.032	0.133	0.133	1.11	1.24	NO	11.8
4	38 Total-hexafurans	373.8208	33.72	110224.313	1.032	5.514	5.514	1.17	1.24	NO	499.5
5	38 Total-hexafurans	373.8208	33.51	34782.346	1.032	1.740	1.740	1.24	1.24	NO	158.2
6	7 123789-HxCDF	373.8208	37.46	5058.186	0.987	0.252	0.252	1.16	1.24	NO	18.6
7	5 234678-HxCDF	373.8208	36.33	16811.766	1.037	0.885	0.885	1.15	1.24	NO	59.3
8	38 Total-hexafurans	373.8208	35.76	0.000	1.032	0.000	0.016	0.42	1.24	YES	3.3
9	38 Total-hexafurans	373.8208	35.74	0.000	1.032	0.000	0.019	1.13	1.24	NO	3.5
10	38 Total-hexafurans	373.8208	35.62	0.000	1.032	0.000	0.024	1.81	1.24	YES	3.4
11	6 123678-HxCDF	373.8208	35.39	12789.811	1.035	0.622	0.622	1.16	1.24	NO	55.6
12	4 123478-HxCDF	373.8208	35.24	14683.999	1.068	0.724	0.724	1.10	1.24	NO	56.4

HPF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 st Rat...	1 st Rat...	1 st R...	S/N
1	9 1234789-HpCDF	407.7818	42.24	10080.954	1.215	0.000	0.591	0.81	1.05	YES	34.2
2	39 Total-heptafurans	407.7818	40.32	284306.312	1.223	16.937	16.937	0.97	1.05	NO	1198.5
3	39 Total-heptafurans	407.7818	40.02	0.000	1.223	0.000	0.267	0.84	1.05	YES	19.0
4	8 1234678-HpCDF	407.7818	39.53	167665.696	1.232	8.977	8.977	0.95	1.05	NO	724.9

Quantify Totals Report MassLynx 4.1 SCN 714

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rat	1° Rat	1° R	S/N
1	35 Total-tetrafurans	303.9016	24.32	6937.191	0.877	0.253	0.253	0.83	0.77	NO	15.9
2	35 Total-tetrafurans	303.9016	24.17	5542.393	0.877	0.202	0.202	0.87	0.77	NO	12.3
3	35 Total-tetrafurans	303.9016	24.08	11294.310	0.877	0.413	0.413	0.80	0.77	NO	26.7
4	35 Total-tetrafurans	303.9016	23.91	4232.449	0.877	0.155	0.155	0.78	0.77	NO	11.0
5	35 Total-tetrafurans	303.9016	23.84	0.000	0.877	0.000	0.317	0.64	0.77	YES	16.6
6	35 Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.241	0.94	0.77	YES	13.2
7	35 Total-tetrafurans	303.9016	23.61	10695.416	0.877	0.391	0.391	0.88	0.77	NO	14.8
8	35 Total-tetrafurans	303.9016	23.42	0.000	0.877	0.000	0.963	0.65	0.77	YES	55.4
9	35 Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.170	0.65	0.77	YES	10.4
10	35 Total-tetrafurans	303.9016	22.58	4616.284	0.877	0.169	0.169	0.74	0.77	NO	10.3
11	35 Total-tetrafurans	303.9016	27.50	2814.102	0.877	0.103	0.103	0.67	0.77	NO	3.4
12	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.376	0.64	0.77	YES	20.4
13	35 Total-tetrafurans	303.9016	26.20	4978.248	0.877	0.182	0.182	0.70	0.77	NO	10.1
14	1 2378-TCDF	303.9016	26.08	10883.167	0.877	0.398	0.398	0.72	0.77	NO	22.3
15	35 Total-tetrafurans	303.9016	25.90	2993.719	0.877	0.109	0.109	0.85	0.77	NO	6.2
16	35 Total-tetrafurans	303.9016	25.56	0.000	0.877	0.000	0.106	0.92	0.77	YES	5.6
17	35 Total-tetrafurans	303.9016	25.38	4579.821	0.877	0.167	0.167	0.70	0.77	NO	9.6
18	35 Total-tetrafurans	303.9016	25.15	8223.755	0.877	0.300	0.300	0.66	0.77	NO	15.9
19	35 Total-tetrafurans	303.9016	24.99	14736.046	0.877	0.538	0.538	0.70	0.77	NO	30.5
20	35 Total-tetrafurans	303.9016	24.82	4723.174	0.877	0.173	0.173	0.71	0.77	NO	11.1
21	35 Total-tetrafurans	303.9016	24.75	10680.253	0.877	0.390	0.390	0.68	0.77	NO	18.2
22	3 23478-PeCDF	339.8597	31.55	6339.183	0.926	0.291	0.291	1.39	1.55	NO	23.9
23	37 Total-pentafurans	339.8597	31.41	7303.792	0.911	0.337	0.337	1.64	1.55	NO	23.0
24	37 Total-pentafurans	339.8597	31.30	4455.058	0.911	0.205	0.205	1.57	1.55	NO	16.0
25	37 Total-pentafurans	339.8597	30.51	0.000	0.911	0.000	0.088	2.11	1.55	YES	10.4
26	37 Total-pentafurans	339.8597	30.41	5812.953	0.911	0.268	0.268	1.41	1.55	NO	20.9
27	2 12378-PeCDF	339.8597	30.21	6316.022	0.896	0.000	0.268	1.79	1.55	YES	23.7
28	37 Total-pentafurans	339.8597	29.85	13285.251	0.911	0.613	0.613	1.36	1.55	NO	34.9
29	37 Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.063	2.09	1.55	YES	6.4
30	37 Total-pentafurans	339.8597	29.64	0.000	0.911	0.000	0.072	0.95	1.55	YES	5.2
31	37 Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.028	1.21	1.55	YES	2.9
32	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.987	1.18	1.55	YES	88.3
33	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.524	2.09	1.55	YES	59.4
34	37 Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.411	1.23	1.55	YES	25.1
35	38 Total-hexafurans	373.8208	35.07	4811.433	1.032	0.241	0.241	1.07	1.24	NO	23.7
36	38 Total-hexafurans	373.8208	34.59	107514.149	1.032	5.378	5.378	1.13	1.24	NO	465.0
37	38 Total-hexafurans	373.8208	34.27	2654.917	1.032	0.133	0.133	1.11	1.24	NO	11.8
38	38 Total-hexafurans	373.8208	33.72	110224.313	1.032	5.514	5.514	1.17	1.24	NO	499.5
39	38 Total-hexafurans	373.8208	33.51	34782.346	1.032	1.740	1.740	1.24	1.24	NO	158.2
40	7 123789-HxCDF	373.8208	37.46	5058.186	0.987	0.252	0.252	1.16	1.24	NO	18.6
41	5 234678-HxCDF	373.8208	36.33	16811.766	1.037	0.885	0.885	1.15	1.24	NO	59.3
42	38 Total-hexafurans	373.8208	35.76	0.000	1.032	0.000	0.016	0.42	1.24	YES	3.3
43	38 Total-hexafurans	373.8208	35.74	0.000	1.032	0.000	0.019	1.13	1.24	NO	3.5
44	38 Total-hexafurans	373.8208	35.62	0.000	1.032	0.000	0.024	1.81	1.24	YES	3.4
45	6 123678-HxCDF	373.8208	35.39	12789.811	1.035	0.622	0.622	1.16	1.24	NO	55.6
46	4 123478-HxCDF	373.8208	35.24	14683.999	1.068	0.724	0.724	1.10	1.24	NO	56.4
47	9 1234789-HpCDF	407.7818	42.24	10080.954	1.215	0.000	0.591	0.81	1.05	YES	34.2
48	39 Total-heptafurans	407.7818	40.32	284306.312	1.223	16.937	16.937	0.97	1.05	NO	1198.5
49	39 Total-heptafurans	407.7818	40.02	0.000	1.223	0.000	0.267	0.84	1.05	YES	19.0

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	8 1234678-HpCDF	407.7818	39.53	167665.696	1.232	8.977	8.977	0.95	1.05	NO	724.9
51	10 OCDF	441.7428	47.54	256664.242	1.138	23.665	23.665	0.84	0.89	NO	739.4
52	36 Total-penta1	339.8597	27.50	98612.363		4.518	4.518	1.46	1.55	NO	816.6
53	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.077	0.44	0.77	YES	5.5

TD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
41	Total-tetradiioxins	319.8965	24.84	0.000	1.049	0.000	0.219	1.16	0.77	YES	52.2
41	Total-tetradiioxins	319.8965	24.33	2990.408	1.049	0.133	0.133	0.80	0.77	NO	25.2
41	Total-tetradiioxins	319.8965	24.12	7927.852	1.049	0.352	0.352	0.84	0.77	NO	63.5
41	Total-tetradiioxins	319.8965	23.85	11878.823	1.049	0.528	0.528	0.82	0.77	NO	85.8
41	Total-tetradiioxins	319.8965	27.29	0.000	1.049	0.000	0.026	1.07	0.77	YES	5.3
41	Total-tetradiioxins	319.8965	26.84	0.000	1.049	0.000	0.051	1.50	0.77	YES	12.8
11	2378-TCDD	319.8965	26.71	4263.782	1.049	0.000	0.121	0.39	0.77	YES	16.2
41	Total-tetradiioxins	319.8965	26.35	3265.438	1.049	0.145	0.145	0.81	0.77	NO	13.7
41	Total-tetradiioxins	319.8965	26.05	0.000	1.049	0.000	0.022	1.27	0.77	YES	4.9
41	Total-tetradiioxins	319.8965	25.90	0.000	1.049	0.000	0.088	0.50	0.77	YES	12.5
41	Total-tetradiioxins	319.8965	25.69	0.000	1.049	0.000	0.050	0.54	0.77	YES	8.0
41	Total-tetradiioxins	319.8965	25.59	601.126	1.049	0.027	0.027	0.74	0.77	NO	4.7
41	Total-tetradiioxins	319.8965	25.33	0.000	1.049	0.000	0.189	0.62	0.77	YES	32.3
41	Total-tetradiioxins	319.8965	25.05	3120.472	1.049	0.139	0.139	0.67	0.77	NO	16.6

PD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
42	Total-pentadiioxins	355.8546	30.75	0.000	0.998	0.000	0.449	1.55	1.55	NO	26.4
42	Total-pentadiioxins	355.8546	30.56	0.000	0.998	0.000	0.324	2.11	1.55	YES	39.6
42	Total-pentadiioxins	355.8546	30.42	8235.402	0.998	0.532	0.532	1.70	1.55	NO	49.4
42	Total-pentadiioxins	355.8546	30.22	7231.604	0.998	0.467	0.467	1.50	1.55	NO	40.2
42	Total-pentadiioxins	355.8546	29.60	0.000	0.998	0.000	0.260	1.30	1.55	YES	22.4
42	Total-pentadiioxins	355.8546	29.12	9191.768	0.998	0.594	0.594	1.52	1.55	NO	59.7
42	Total-pentadiioxins	355.8546	29.09	0.000	0.998	0.000	0.503	1.50	1.55	NO	57.9
42	Total-pentadiioxins	355.8546	32.22	0.000	0.998	0.000	0.108	1.11	1.55	YES	9.1
12	12378-PeCDD	355.8546	31.81	9727.406	0.998	0.628	0.628	1.62	1.55	NO	47.5
42	Total-pentadiioxins	355.8546	31.13	0.000	0.998	0.000	0.155	1.90	1.55	YES	13.0

HD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
15	123789-HxCDD	389.8157	37.02	27050.490	0.932	1.797	1.797	1.23	1.24	NO	150.8
43	Total-hexadiioxins	389.8157	36.78	6950.317	0.940	0.458	0.458	1.26	1.24	NO	39.7
14	123678-HxCDD	389.8157	36.60	39352.899	0.918	2.554	2.554	1.27	1.24	NO	215.3
13	123478-HxCDD	389.8157	36.47	13049.867	0.971	0.867	0.867	1.28	1.24	NO	75.1
43	Total-hexadiioxins	389.8157	35.62	0.000	0.940	0.000	0.292	0.99	1.24	YES	27.8
43	Total-hexadiioxins	389.8157	35.51	96076.656	0.940	6.327	6.327	1.28	1.24	NO	377.8
43	Total-hexadiioxins	389.8157	35.11	19875.064	0.940	1.309	1.309	1.38	1.24	NO	116.6
43	Total-hexadiioxins	389.8157	34.30	62893.102	0.940	4.142	4.142	1.25	1.24	NO	330.4

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

HPD

#	Name	Trace	RT	Abs. Resp	RRF	M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
16	1234678-HpCDD	423.7766	41.35	724291.501	1.017		52.057	52.057	1.02	1.05	NO	1397.5
44	Total-heptadioxins	423.7766	40.08	621376.156	1.017		44.660	44.660	1.05	1.05	NO	1335.5

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Name	Trace	RT	Abs.Resp	RRF	M.L.	pg	EMPC	1° Rat.	1° Rat.	1° R.	SN
35	Total-tetrafurans	303.9016	24.32	6937.191	0.877	0.253	0.253	0.83	0.77	NO	15.9	
35	Total-tetrafurans	303.9016	24.17	5542.393	0.877	0.202	0.202	0.87	0.77	NO	12.3	
35	Total-tetrafurans	303.9016	24.08	11294.310	0.877	0.413	0.413	0.80	0.77	NO	26.7	
35	Total-tetrafurans	303.9016	23.91	4232.449	0.877	0.155	0.155	0.78	0.77	NO	11.0	
35	Total-tetrafurans	303.9016	23.84	0.000	0.877	0.000	0.317	0.64	0.77	YES	16.6	
35	Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.241	0.94	0.77	YES	13.2	
35	Total-tetrafurans	303.9016	23.61	10695.416	0.877	0.391	0.391	0.88	0.77	NO	14.8	
35	Total-tetrafurans	303.9016	23.42	0.000	0.877	0.000	0.963	0.65	0.77	YES	55.4	
35	Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.170	0.65	0.77	YES	10.4	
35	Total-tetrafurans	303.9016	22.58	4616.284	0.877	0.169	0.169	0.74	0.77	NO	10.3	
35	Total-tetrafurans	303.9016	27.50	2814.102	0.877	0.103	0.103	0.67	0.77	NO	3.4	
35	Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.376	0.64	0.77	YES	20.4	
35	Total-tetrafurans	303.9016	26.20	4978.248	0.877	0.182	0.182	0.70	0.77	NO	10.1	
1	2378-TCDF	303.9016	26.08	10883.167	0.877	0.398	0.398	0.72	0.77	NO	22.3	
35	Total-tetrafurans	303.9016	25.90	2993.719	0.877	0.109	0.109	0.85	0.77	NO	6.2	
35	Total-tetrafurans	303.9016	25.56	0.000	0.877	0.000	0.106	0.92	0.77	YES	5.6	
35	Total-tetrafurans	303.9016	25.38	4579.821	0.877	0.167	0.167	0.70	0.77	NO	9.6	
35	Total-tetrafurans	303.9016	25.15	8223.755	0.877	0.300	0.300	0.66	0.77	NO	15.9	
35	Total-tetrafurans	303.9016	24.99	14736.046	0.877	0.538	0.538	0.70	0.77	NO	30.5	
35	Total-tetrafurans	303.9016	24.82	4723.174	0.877	0.173	0.173	0.71	0.77	NO	11.1	
35	Total-tetrafurans	303.9016	24.75	10680.253	0.877	0.390	0.390	0.68	0.77	NO	18.2	
3	23478-PeCDF	339.8597	31.55	6339.183	0.926	0.291	0.291	1.39	1.55	NO	23.9	
37	Total-pentafurans	339.8597	31.41	7303.792	0.911	0.337	0.337	1.64	1.55	NO	23.0	
37	Total-pentafurans	339.8597	31.30	4455.058	0.911	0.205	0.205	1.57	1.55	NO	16.0	
37	Total-pentafurans	339.8597	30.51	0.000	0.911	0.000	0.088	2.11	1.55	YES	10.4	
37	Total-pentafurans	339.8597	30.41	5812.953	0.911	0.268	0.268	1.41	1.55	NO	20.9	
2	12378-PeCDF	339.8597	30.21	6316.022	0.896	0.293	0.268	1.79	1.55	YES	23.7	
37	Total-pentafurans	339.8597	29.85	13285.251	0.911	0.613	0.613	1.36	1.55	NO	34.9	
37	Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.063	2.09	1.55	YES	6.4	
37	Total-pentafurans	339.8597	29.64	0.000	0.911	0.000	0.072	0.95	1.55	YES	5.2	
37	Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.028	1.21	1.55	YES	2.9	
37	Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.987	1.18	1.55	YES	88.3	
37	Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.524	2.09	1.55	YES	59.4	
37	Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.411	1.23	1.55	YES	25.1	
38	Total-hexafurans	373.8208	35.07	4811.433	1.032	0.241	0.241	1.07	1.24	NO	23.7	
38	Total-hexafurans	373.8208	34.59	107514.149	1.032	5.378	5.378	1.13	1.24	NO	465.0	
38	Total-hexafurans	373.8208	34.27	2654.917	1.032	0.133	0.133	1.11	1.24	NO	11.8	
38	Total-hexafurans	373.8208	33.72	110224.313	1.032	5.514	5.514	1.17	1.24	NO	499.5	
38	Total-hexafurans	373.8208	33.51	34782.346	1.032	1.740	1.740	1.24	1.24	NO	158.2	
7	123789-HxCDF	373.8208	37.46	5058.186	0.987	0.252	0.252	1.16	1.24	NO	18.6	
5	234678-HxCDF	373.8208	36.33	16811.766	1.037	0.885	0.885	1.15	1.24	NO	59.3	
38	Total-hexafurans	373.8208	35.76	0.000	1.032	0.000	0.016	0.42	1.24	YES	3.3	
38	Total-hexafurans	373.8208	35.74	0.000	1.032	0.000	0.019	1.13	1.24	NO	3.5	
38	Total-hexafurans	373.8208	35.62	0.000	1.032	0.000	0.024	1.81	1.24	YES	3.4	
6	123678-HxCDF	373.8208	35.39	12789.811	1.035	0.622	0.622	1.16	1.24	NO	55.6	
4	123478-HxCDF	373.8208	35.24	14683.999	1.068	0.724	0.724	1.10	1.24	NO	56.4	
9	1234789-HpCDF	407.7818	42.24	10080.954	1.215	0.676	0.591	0.81	1.05	YES	34.2	
39	Total-heptafurans	407.7818	40.32	284306.312	1.223	16.937	16.937	0.97	1.05	NO	1198.5	
39	Total-heptafurans	407.7818	40.02	0.000	1.223	0.000	0.267	0.84	1.05	YES	19.0	

VR02: 01185

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs.Resp	RRF	M.L.	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
50	8	1234678-HpCDF	407.7818	39.53	167665.696	1.232	8.977	8.977	0.95	1.05	NO	724.9	
51	10	OCDF	441.7428	47.54	256664.242	1.138	23.665	23.665	0.84	0.89	NO	739.4	
52	36	Total-penta1	339.8597	27.50	98612.363		4.518	4.518	1.46	1.55	NO	816.6	
53	35	Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.077	0.44	0.77	YES	5.5	

VR82: 01185

Quantify Totals Report MassLynx 4.1 SCN 714

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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M	pg	EMPC	1° Rati	1° Rati	1° R	S/N
1	35 Total-tetrafurans	303.9016	24.32	6937.191	0.877	0.253	0.253	0.83	0.77	NO	15.9
2	35 Total-tetrafurans	303.9016	24.17	5542.393	0.877	0.202	0.202	0.87	0.77	NO	12.3
3	35 Total-tetrafurans	303.9016	24.08	11294.310	0.877	0.413	0.413	0.80	0.77	NO	26.7
4	35 Total-tetrafurans	303.9016	23.91	4232.449	0.877	0.155	0.155	0.78	0.77	NO	11.0
5	35 Total-tetrafurans	303.9016	23.84	0.000	0.877	0.000	0.317	0.64	0.77	YES	16.6
6	35 Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.241	0.94	0.77	YES	13.2
7	35 Total-tetrafurans	303.9016	23.61	10695.416	0.877	0.391	0.391	0.88	0.77	NO	14.8
8	35 Total-tetrafurans	303.9016	23.42	0.000	0.877	0.000	0.963	0.65	0.77	YES	55.4
9	35 Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.170	0.65	0.77	YES	10.4
10	35 Total-tetrafurans	303.9016	22.58	4616.284	0.877	0.169	0.169	0.74	0.77	NO	10.3
11	35 Total-tetrafurans	303.9016	27.50	2814.102	0.877	0.103	0.103	0.67	0.77	NO	3.4
12	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.376	0.64	0.77	YES	20.4
13	35 Total-tetrafurans	303.9016	26.20	4978.248	0.877	0.182	0.182	0.70	0.77	NO	10.1
14	1 2378-TCDF	303.9016	26.08	10883.167	0.877	0.398	0.398	0.72	0.77	NO	22.3
15	35 Total-tetrafurans	303.9016	25.90	2993.719	0.877	0.109	0.109	0.85	0.77	NO	6.2
16	35 Total-tetrafurans	303.9016	25.56	0.000	0.877	0.000	0.106	0.92	0.77	YES	5.6
17	35 Total-tetrafurans	303.9016	25.38	4579.821	0.877	0.167	0.167	0.70	0.77	NO	9.6
18	35 Total-tetrafurans	303.9016	25.15	8223.755	0.877	0.300	0.300	0.66	0.77	NO	15.9
19	35 Total-tetrafurans	303.9016	24.99	14736.046	0.877	0.538	0.538	0.70	0.77	NO	30.5
20	35 Total-tetrafurans	303.9016	24.82	4723.174	0.877	0.173	0.173	0.71	0.77	NO	11.1
21	35 Total-tetrafurans	303.9016	24.75	10680.253	0.877	0.390	0.390	0.68	0.77	NO	18.2
22	3 23478-PeCDF	339.8597	31.55	6339.183	0.926	0.291	0.291	1.39	1.55	NO	23.9
23	37 Total-pentafurans	339.8597	31.41	7303.792	0.911	0.337	0.337	1.64	1.55	NO	23.0
24	37 Total-pentafurans	339.8597	31.30	4455.058	0.911	0.205	0.205	1.57	1.55	NO	16.0
25	37 Total-pentafurans	339.8597	30.51	0.000	0.911	0.000	0.088	2.11	1.55	YES	10.4
26	37 Total-pentafurans	339.8597	30.41	5812.953	0.911	0.268	0.268	1.41	1.55	NO	20.9
27	2 12378-PeCDF	339.8597	30.21	6316.022	0.896	0.000	0.268	1.79	1.55	YES	23.7
28	37 Total-pentafurans	339.8597	29.85	13285.251	0.911	0.613	0.613	1.36	1.55	NO	34.9
29	37 Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.063	2.09	1.55	YES	6.4
30	37 Total-pentafurans	339.8597	29.64	0.000	0.911	0.000	0.072	0.95	1.55	YES	5.2
31	37 Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.028	1.21	1.55	YES	2.9
32	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.987	1.18	1.55	YES	88.3
33	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.524	2.09	1.55	YES	59.4
34	37 Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.411	1.23	1.55	YES	25.1
35	38 Total-hexafurans	373.8208	35.07	4811.433	1.032	0.241	0.241	1.07	1.24	NO	23.7
36	38 Total-hexafurans	373.8208	34.59	107514.149	1.032	5.378	5.378	1.13	1.24	NO	465.0
37	38 Total-hexafurans	373.8208	34.27	2654.917	1.032	0.133	0.133	1.11	1.24	NO	11.8
38	38 Total-hexafurans	373.8208	33.72	110224.313	1.032	5.514	5.514	1.17	1.24	NO	499.5
39	38 Total-hexafurans	373.8208	33.51	34782.346	1.032	1.740	1.740	1.24	1.24	NO	158.2
40	7 123789-HxCDF	373.8208	37.46	5058.186	0.987	0.252	0.252	1.16	1.24	NO	18.6
41	5 234678-HxCDF	373.8208	36.33	16811.766	1.037	0.885	0.885	1.15	1.24	NO	59.3
42	38 Total-hexafurans	373.8208	35.76	0.000	1.032	0.000	0.016	0.42	1.24	YES	3.3
43	38 Total-hexafurans	373.8208	35.74	0.000	1.032	0.000	0.019	1.13	1.24	NO	3.5
44	38 Total-hexafurans	373.8208	35.62	0.000	1.032	0.000	0.024	1.81	1.24	YES	3.4
45	6 123678-HxCDF	373.8208	35.39	12789.811	1.035	0.622	0.622	1.16	1.24	NO	55.6
46	4 123478-HxCDF	373.8208	35.24	14683.999	1.068	0.724	0.724	1.10	1.24	NO	56.4
47	9 1234789-HpCDF	407.7818	42.24	10080.954	1.215	0.000	0.591	0.81	1.05	YES	34.2
48	39 Total-heptafurans	407.7818	40.32	284306.312	1.223	16.937	16.937	0.97	1.05	NO	1198.5
49	39 Total-heptafurans	407.7818	40.02	0.000	1.223	0.000	0.267	0.84	1.05	YES	19.0

VR82: 01187

Quantify Totals Report MassLynx 4.1 SCN 714

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 st Rat.	1 st Rat.	1 st R.	S/N
50	8 1234678-HpCDF	407.7818	39.53	167665.696	1.232	8.977	8.977	0.95	1.05	NO	724.9
51	10 OCDF	441.7428	47.54	256664.242	1.138	23.665	23.665	0.84	0.89	NO	739.4
52	36 Total-penta1	339.8597	27.50	98612.363		4.518	4.518	1.46	1.55	NO	816.6
53	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.077	0.44	0.77	YES	5.5
54	35 Total-tetrafurans	303.9016	24.32	6937.191	0.877	0.253	0.253	0.83	0.77	NO	15.9
55	35 Total-tetrafurans	303.9016	24.17	5542.393	0.877	0.202	0.202	0.87	0.77	NO	12.3
56	35 Total-tetrafurans	303.9016	24.08	11294.310	0.877	0.413	0.413	0.80	0.77	NO	26.7
57	35 Total-tetrafurans	303.9016	23.91	4232.449	0.877	0.155	0.155	0.78	0.77	NO	11.0
58	35 Total-tetrafurans	303.9016	23.84	0.000	0.877	0.000	0.317	0.64	0.77	YES	16.6
59	35 Total-tetrafurans	303.9016	23.73	0.000	0.877	0.000	0.241	0.94	0.77	YES	13.2
60	35 Total-tetrafurans	303.9016	23.61	10695.416	0.877	0.391	0.391	0.88	0.77	NO	14.8
61	35 Total-tetrafurans	303.9016	23.42	0.000	0.877	0.000	0.963	0.65	0.77	YES	55.4
62	35 Total-tetrafurans	303.9016	22.84	0.000	0.877	0.000	0.170	0.65	0.77	YES	10.4
63	35 Total-tetrafurans	303.9016	22.58	4616.284	0.877	0.169	0.169	0.74	0.77	NO	10.3
64	35 Total-tetrafurans	303.9016	27.50	2814.102	0.877	0.103	0.103	0.67	0.77	NO	3.4
65	35 Total-tetrafurans	303.9016	26.30	0.000	0.877	0.000	0.376	0.64	0.77	YES	20.4
66	35 Total-tetrafurans	303.9016	26.20	4978.248	0.877	0.182	0.182	0.70	0.77	NO	10.1
67	1 2378-TCDF	303.9016	26.08	10883.167	0.877	0.398	0.398	0.72	0.77	NO	22.3
68	35 Total-tetrafurans	303.9016	25.90	2993.719	0.877	0.109	0.109	0.85	0.77	NO	6.2
69	35 Total-tetrafurans	303.9016	25.56	0.000	0.877	0.000	0.106	0.92	0.77	YES	5.6
70	35 Total-tetrafurans	303.9016	25.38	4579.821	0.877	0.167	0.167	0.70	0.77	NO	9.6
71	35 Total-tetrafurans	303.9016	25.15	8223.755	0.877	0.300	0.300	0.66	0.77	NO	15.9
72	35 Total-tetrafurans	303.9016	24.99	14736.046	0.877	0.538	0.538	0.70	0.77	NO	30.5
73	35 Total-tetrafurans	303.9016	24.82	4723.174	0.877	0.173	0.173	0.71	0.77	NO	11.1
74	35 Total-tetrafurans	303.9016	24.75	10680.253	0.877	0.390	0.390	0.68	0.77	NO	18.2
75	3 23478-PeCDF	339.8597	31.55	6339.183	0.926	0.291	0.291	1.39	1.55	NO	23.9
76	37 Total-pentafurans	339.8597	31.41	7303.792	0.911	0.337	0.337	1.64	1.55	NO	23.0
77	37 Total-pentafurans	339.8597	31.30	4455.058	0.911	0.205	0.205	1.57	1.55	NO	16.0
78	37 Total-pentafurans	339.8597	30.51	0.000	0.911	0.000	0.088	2.11	1.55	YES	10.4
79	37 Total-pentafurans	339.8597	30.41	5812.953	0.911	0.268	0.268	1.41	1.55	NO	20.9
80	2 12378-PeCDF	339.8597	30.21	6316.022	0.896	0.000	0.268	1.79	1.55	YES	23.7
81	37 Total-pentafurans	339.8597	29.85	13285.251	0.911	0.613	0.613	1.36	1.55	NO	34.9
82	37 Total-pentafurans	339.8597	29.76	0.000	0.911	0.000	0.063	2.09	1.55	YES	6.4
83	37 Total-pentafurans	339.8597	29.64	0.000	0.911	0.000	0.072	0.95	1.55	YES	5.2
84	37 Total-pentafurans	339.8597	29.43	0.000	0.911	0.000	0.028	1.21	1.55	YES	2.9
85	37 Total-pentafurans	339.8597	29.14	0.000	0.911	0.000	0.987	1.18	1.55	YES	88.3
86	37 Total-pentafurans	339.8597	29.07	0.000	0.911	0.000	0.524	2.09	1.55	YES	59.4
87	37 Total-pentafurans	339.8597	28.94	0.000	0.911	0.000	0.411	1.23	1.55	YES	25.1
88	38 Total-hexafurans	373.8208	35.07	4811.433	1.032	0.241	0.241	1.07	1.24	NO	23.7
89	38 Total-hexafurans	373.8208	34.59	107514.149	1.032	5.378	5.378	1.13	1.24	NO	465.0
90	38 Total-hexafurans	373.8208	34.27	2654.917	1.032	0.133	0.133	1.11	1.24	NO	11.8
91	38 Total-hexafurans	373.8208	33.72	110224.313	1.032	5.514	5.514	1.17	1.24	NO	499.5
92	38 Total-hexafurans	373.8208	33.51	34782.346	1.032	1.740	1.740	1.24	1.24	NO	158.2
93	7 123789-HxCDF	373.8208	37.46	5058.186	0.987	0.252	0.252	1.16	1.24	NO	18.6
94	5 234678-HxCDF	373.8208	36.33	16811.766	1.037	0.885	0.885	1.15	1.24	NO	59.3
95	38 Total-hexafurans	373.8208	35.76	0.000	1.032	0.000	0.016	0.42	1.24	YES	3.3
96	38 Total-hexafurans	373.8208	35.74	0.000	1.032	0.000	0.019	1.13	1.24	NO	3.5
97	38 Total-hexafurans	373.8208	35.62	0.000	1.032	0.000	0.024	1.81	1.24	YES	3.4
98	6 123678-HxCDF	373.8208	35.39	12789.811	1.035	0.622	0.622	1.16	1.24	NO	55.6

VR82: 01199

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
99	4 123478-HxCDF	373.8208	35.24	14683.999	1.068	0.724	0.724	1.10	1.24	NO	56.4
100	9 1234789-HpCDF	407.7818	42.24	10080.954	1.215	0.000	0.591	0.81	1.05	YES	34.2
101	39 Total-heptafurans	407.7818	40.32	284306.312	1.223	16.937	16.937	0.97	1.05	NO	1198.5
102	39 Total-heptafurans	407.7818	40.02	0.000	1.223	0.000	0.267	0.84	1.05	YES	19.0
103	8 1234678-HpCDF	407.7818	39.53	167665.696	1.232	8.977	8.977	0.95	1.05	NO	724.9
104	10 OCDF	441.7428	47.54	256664.242	1.138	23.665	23.665	0.84	0.89	NO	739.4
105	36 Total-penta1	339.8597	27.50	98612.363		4.518	4.518	1.46	1.55	NO	816.6
106	35 Total-tetrafurans	303.9016	25.85	0.000	0.877	0.000	0.077	0.44	0.77	YES	5.5

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	24.57	0.000							1.4
2	48 FUNCTION1 PFK	330.9792	24.02	0.000							0.6
3	48 FUNCTION1 PFK	330.9792	23.27	0.000							0.7
4	48 FUNCTION1 PFK	330.9792	22.67	0.000							1.0
5	48 FUNCTION1 PFK	330.9792	22.28	0.000							0.6
6	48 FUNCTION1 PFK	330.9792	22.19	0.000							0.7
7	48 FUNCTION1 PFK	330.9792	21.69	0.000							2.3
8	48 FUNCTION1 PFK	330.9792	21.58	0.000							0.6
9	48 FUNCTION1 PFK	330.9792	21.40	0.000							2.0
10	48 FUNCTION1 PFK	330.9792	21.34	0.000							2.3
11	48 FUNCTION1 PFK	330.9792	21.28	0.000							0.9
12	48 FUNCTION1 PFK	330.9792	21.13	0.000							1.0
13	48 FUNCTION1 PFK	330.9792	27.35	0.000							1.4
14	48 FUNCTION1 PFK	330.9792	26.90	0.000							0.5
15	48 FUNCTION1 PFK	330.9792	26.74	0.000							0.8
16	48 FUNCTION1 PFK	330.9792	26.65	0.000							1.1
17	48 FUNCTION1 PFK	330.9792	26.45	0.000							1.4
18	48 FUNCTION1 PFK	330.9792	26.38	0.000							2.8
19	48 FUNCTION1 PFK	330.9792	26.32	0.000							2.0
20	48 FUNCTION1 PFK	330.9792	26.21	0.000							1.8
21	48 FUNCTION1 PFK	330.9792	26.09	0.000							3.5
22	48 FUNCTION1 PFK	330.9792	25.81	0.000							1.2
23	48 FUNCTION1 PFK	330.9792	25.53	0.000							2.0
24	48 FUNCTION1 PFK	330.9792	25.45	0.000							1.3
25	48 FUNCTION1 PFK	330.9792	25.41	0.000							1.9
26	48 FUNCTION1 PFK	330.9792	25.32	0.000							1.8
27	48 FUNCTION1 PFK	330.9792	25.03	0.000							0.3
28	48 FUNCTION1 PFK	330.9792	24.67	0.000							0.9
29	48 FUNCTION1 PFK	330.9792	28.20	0.000							0.9
30	48 FUNCTION1 PFK	330.9792	27.84	0.000							1.4
31	48 FUNCTION1 PFK	330.9792	27.78	0.000							0.6
32	48 FUNCTION1 PFK	330.9792	27.62	0.000							0.5

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

VR82 : 01189

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	37.42	0.000		0.000					5.5
2	50 FUNCTION3 PFK	380.9760	37.36	0.000		0.000					5.7
3	50 FUNCTION3 PFK	380.9760	37.11	0.000		0.000					2.8

PFK4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	40.02	0.000							1.2
2	51 FUNCTION4 PFK	430.9728	39.50	0.000							1.2
3	51 FUNCTION4 PFK	430.9728	39.15	0.000							0.7
4	51 FUNCTION4 PFK	430.9728	39.01	0.000							2.7
5	51 FUNCTION4 PFK	430.9728	38.69	0.000							10.6
6	51 FUNCTION4 PFK	430.9728	38.58	0.000							14.5
7	51 FUNCTION4 PFK	430.9728	44.02	0.000							1.8
8	51 FUNCTION4 PFK	430.9728	43.23	0.000							1.5
9	51 FUNCTION4 PFK	430.9728	41.01	0.000							0.6
10	51 FUNCTION4 PFK	430.9728	40.41	0.000							1.6

PFK5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	48.74	0.000							1.4
2	52 FUNCTION5 PFK	480.9696	48.51	0.000							0.6
3	52 FUNCTION5 PFK	480.9696	47.95	0.000							1.3
4	52 FUNCTION5 PFK	480.9696	47.67	0.000							2.0
5	52 FUNCTION5 PFK	480.9696	47.63	0.000							1.0
6	52 FUNCTION5 PFK	480.9696	47.36	0.000							1.1
7	52 FUNCTION5 PFK	480.9696	46.69	0.000							1.3
8	52 FUNCTION5 PFK	480.9696	46.55	0.000							0.5
9	52 FUNCTION5 PFK	480.9696	45.89	0.000							0.8
10	52 FUNCTION5 PFK	480.9696	45.49	0.000							1.0
11	52 FUNCTION5 PFK	480.9696	45.29	0.000							0.7

ETHERS1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.11	0.000		0.000					2.1
2	53 FUNCTION1 HXCD...	375.8364	23.94	0.000		0.000					7.3
3	53 FUNCTION1 HXCD...	375.8364	22.54	0.000		0.000					7.4
4	53 FUNCTION1 HXCD...	375.8364	22.42	0.000		0.000					3.7
5	53 FUNCTION1 HXCD...	375.8364	22.30	0.000		0.000					4.4
6	53 FUNCTION1 HXCD...	375.8364	21.97	0.000		0.000					2.2

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

ETHERS2

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	25.66	0.000		0.000					2.5
2	54 FUNCTION1 HPCD...	409.7974	23.76	0.000		0.000					3.6
3	54 FUNCTION1 HPCD...	409.7974	23.67	0.000		0.000					2.2
4	54 FUNCTION1 HPCD...	409.7974	23.27	0.000		0.000					3.9
5	54 FUNCTION1 HPCD...	409.7974	21.40	0.000		0.000					2.0
6	54 FUNCTION1 HPCD...	409.7974	21.34	0.000		0.000					3.0

ETHERS3

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.63	0.000		0.000					2.3
2	55 FUNCTION2 HPCD...	409.7974	31.79	0.000		0.000					2.2
3	55 FUNCTION2 HPCD...	409.7974	31.66	0.000		0.000					1.9
4	55 FUNCTION2 HPCD...	409.7974	30.39	0.000		0.000					2.9
5	55 FUNCTION2 HPCD...	409.7974	30.18	0.000		0.000					2.2

ETHERS4

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.12	0.000		0.000					820.0

ETHERS6

	# Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

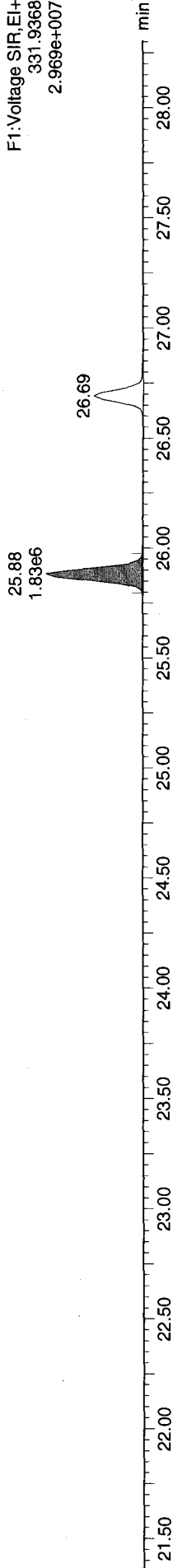
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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

12112828

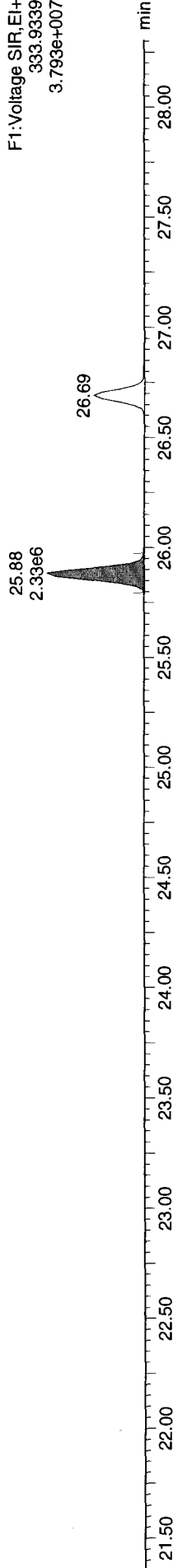
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13C-1234-TCDD

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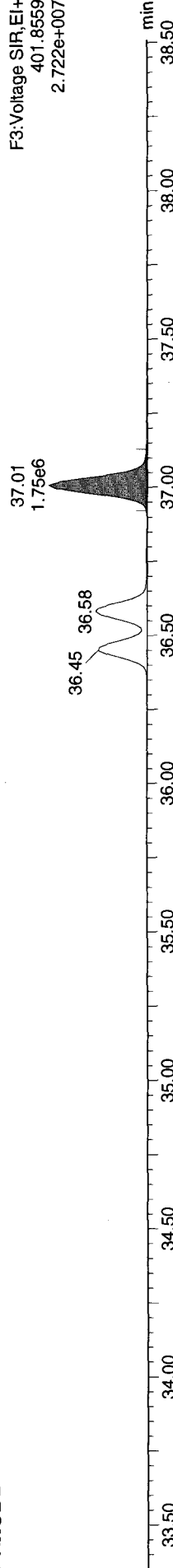
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13C-123789-HxCDD

12112828

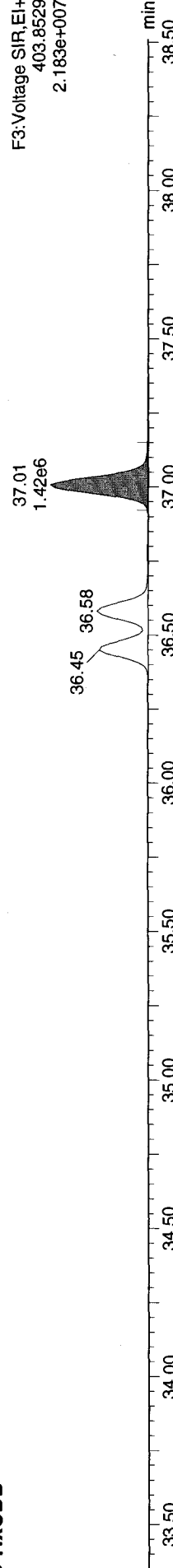
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13C-123789-HxCDD

12112828

100%
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Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

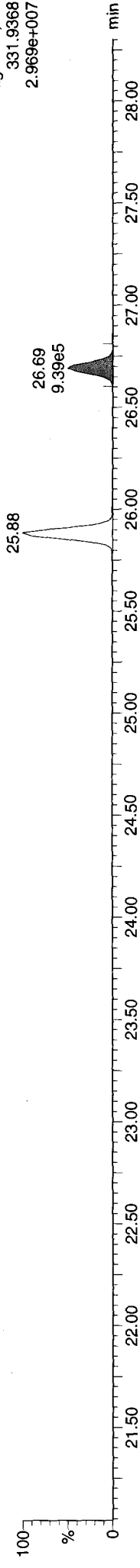
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

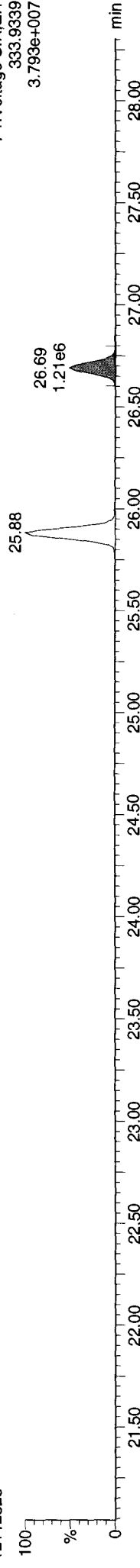
13C-2378-TCDD

12112828



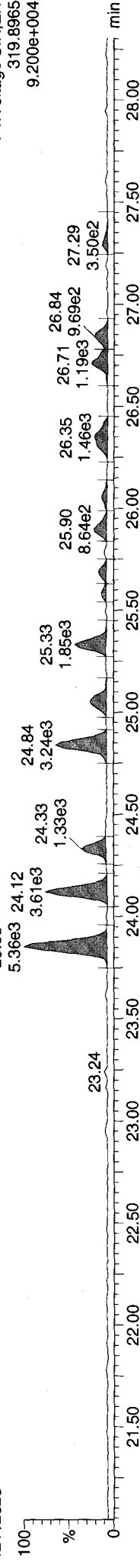
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12112828



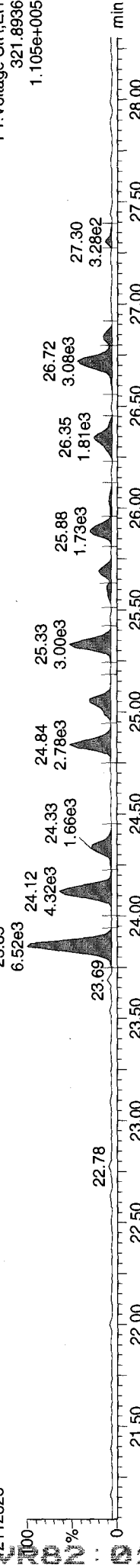
Total-tetradoxins

12112828



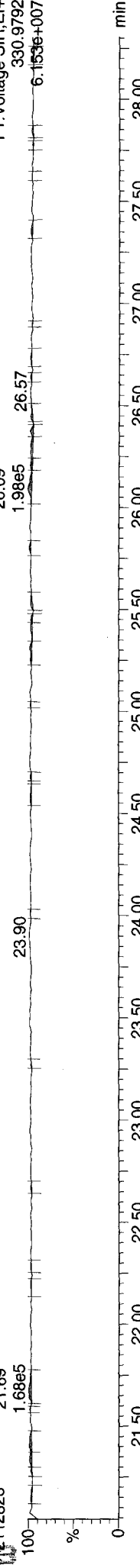
Total-tetradoxins

12112828



FUNCTION1 PFK

12112828

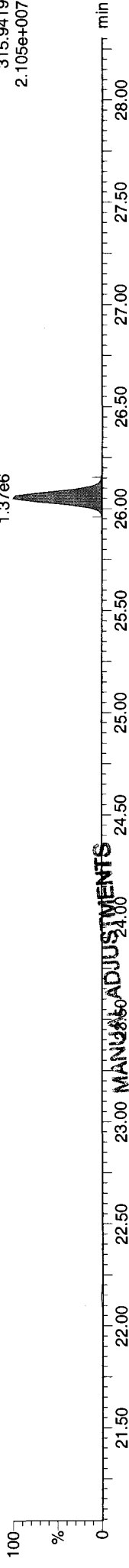


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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
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Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

12112828

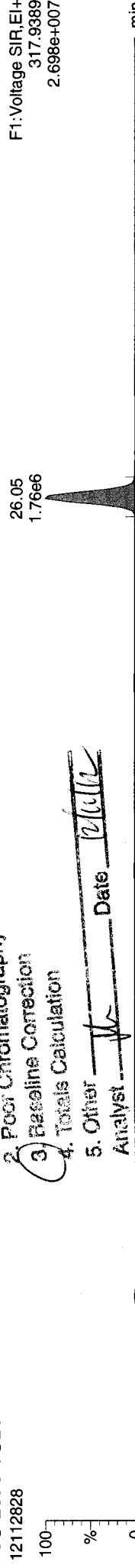


F1: Voltage SIR, EI+
315.9419
2.105e+007

13C-2378-TCDF

12112828

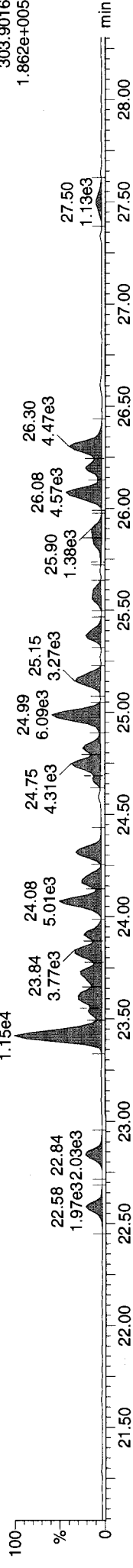
1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: [Signature] Date: 12/11/12



F1: Voltage SIR, EI+
317.9389
2.698e+007

Total-tetrafurans

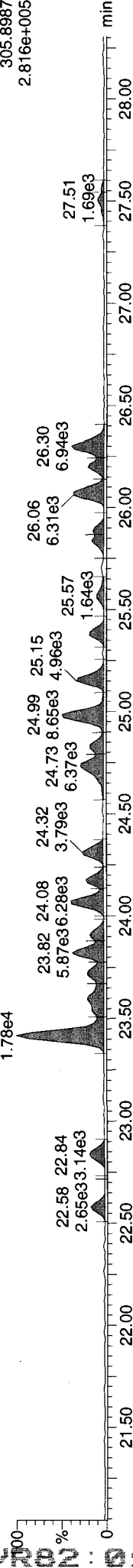
12112828



F1: Voltage SIR, EI+
303.9016
1.862e+005

Total-tetrafurans

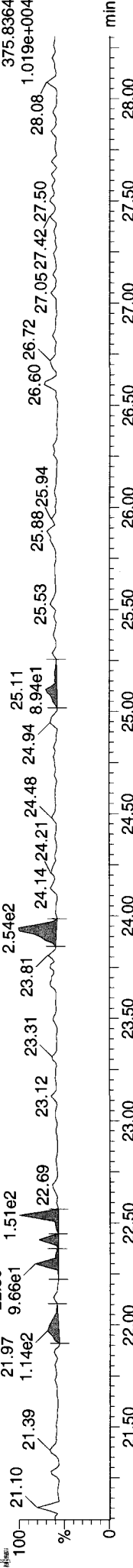
12112828



F1: Voltage SIR, EI+
305.8987
2.816e+005

FUNCTION1 HXCDFE

12112828



F1: Voltage SIR, EI+
375.8364
1.019e+004

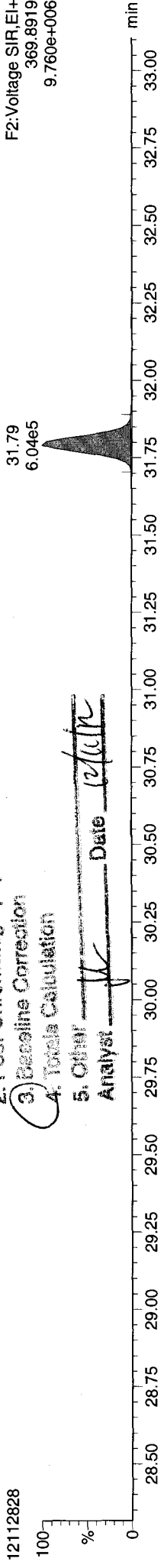
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD

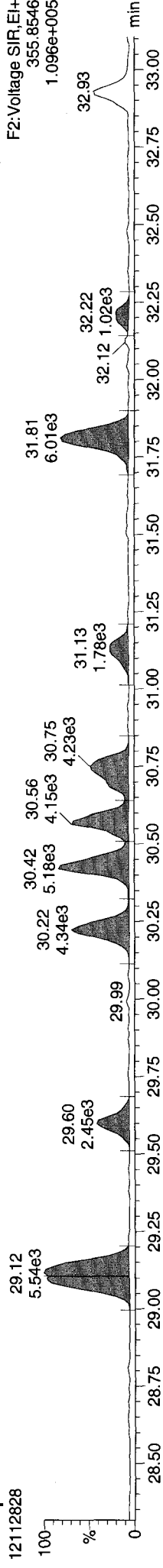


13C-12378-PeCDD

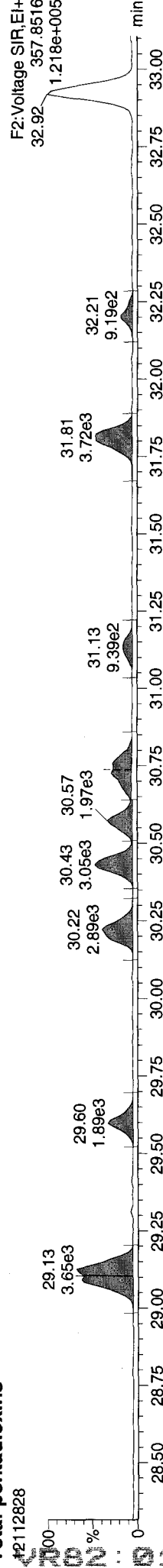


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 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: *12/11/12*

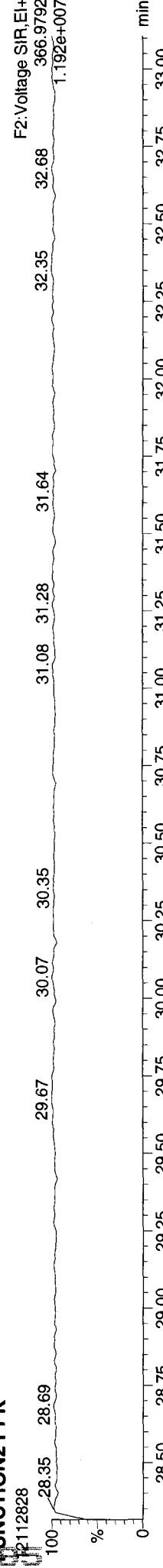
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

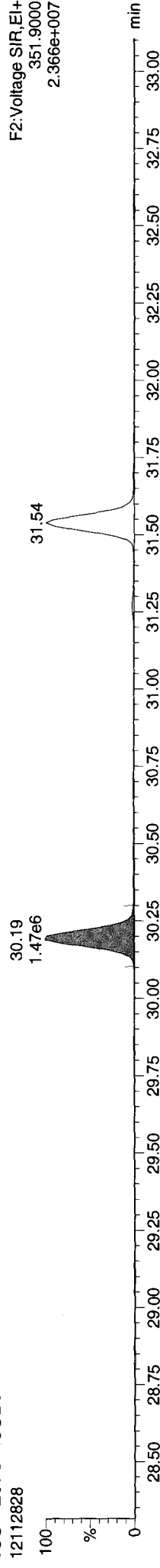


Quantify Sample Report MassLynx 4.1 SCN 714

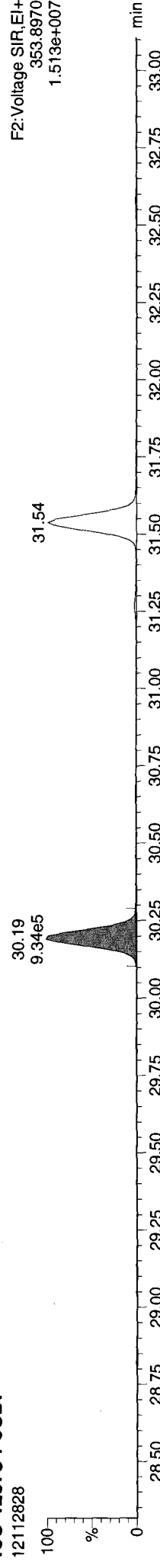
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

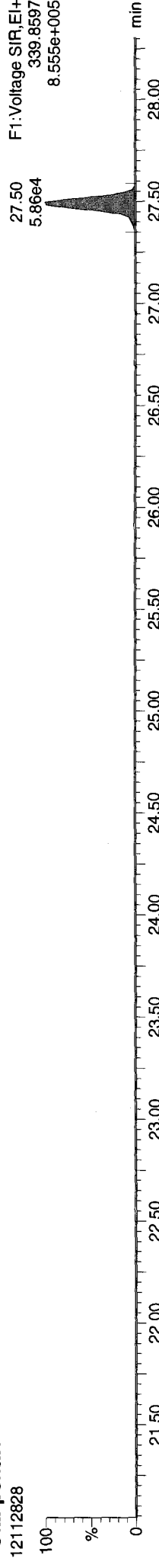
13C-12378-PeCDF



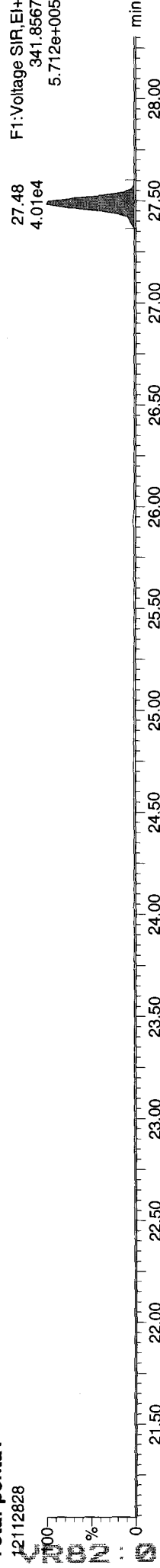
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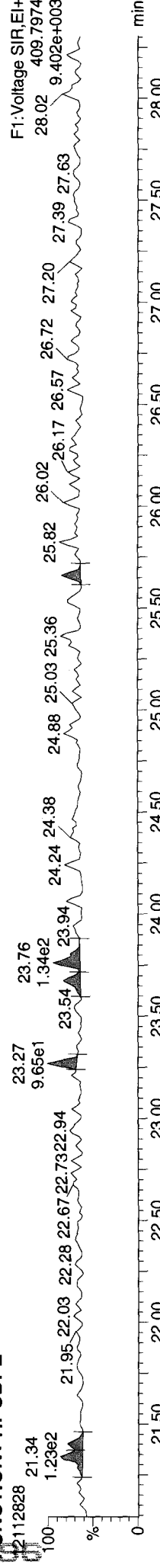
Total-penta1



Total-penta1



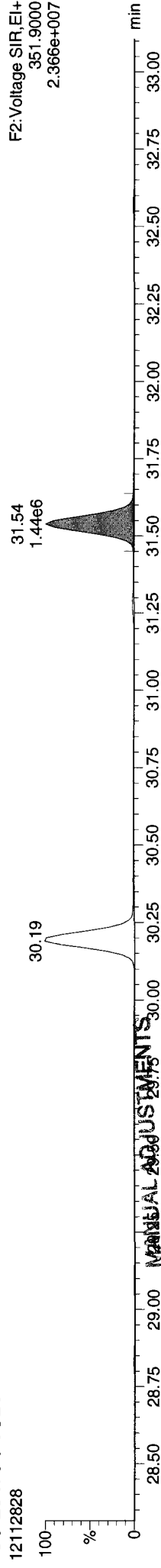
FUNCTION1 HPCDPE



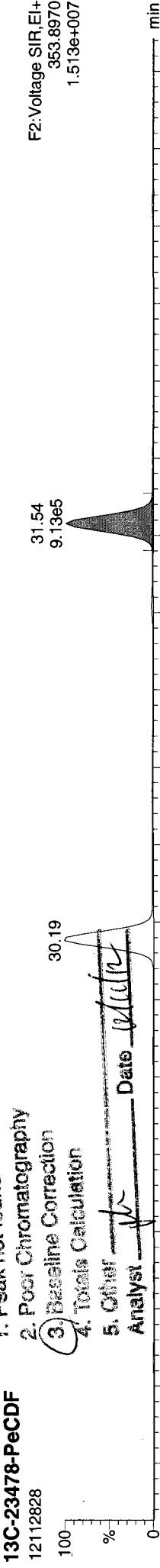
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF

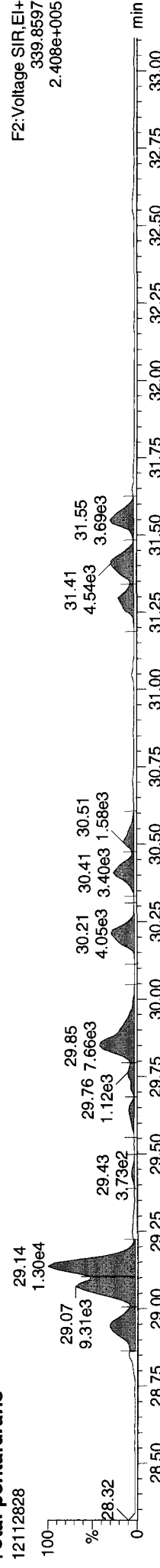


13C-23478-PeCDF

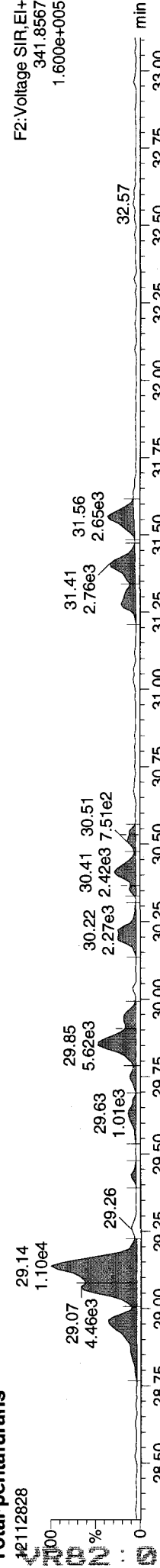


1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: *[Signature]*

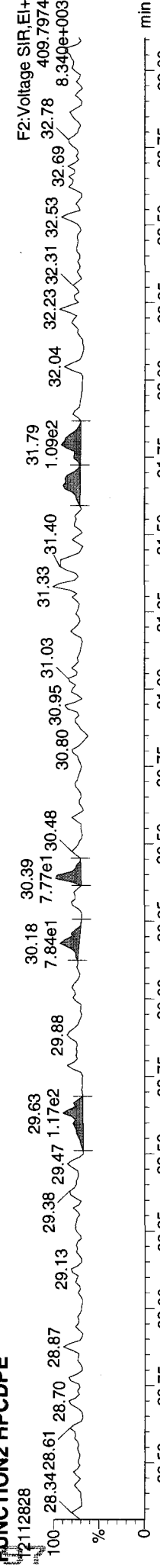
Total-pentafurans



Total-pentafurans

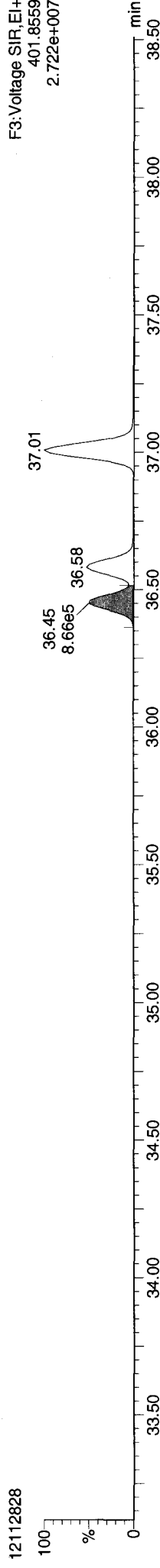


FUNCTION2 HPCDPE

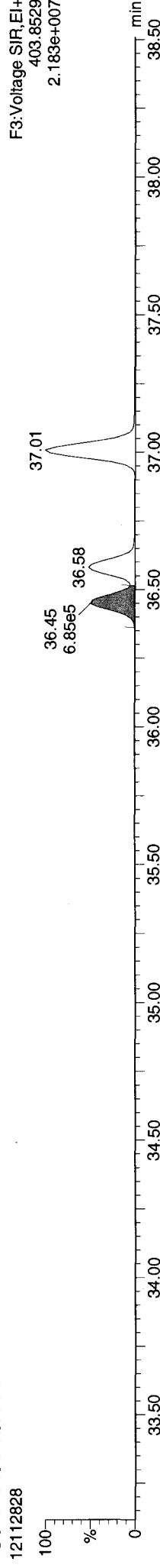


Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

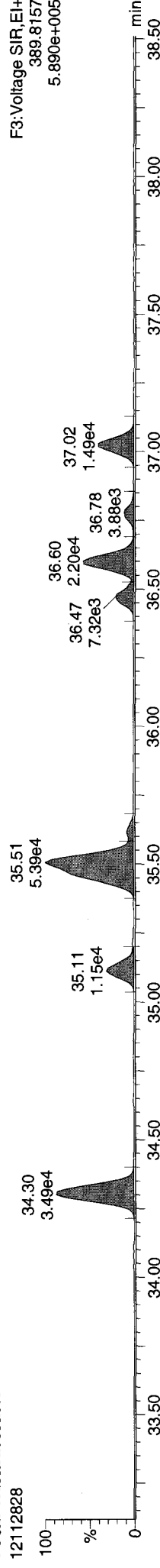
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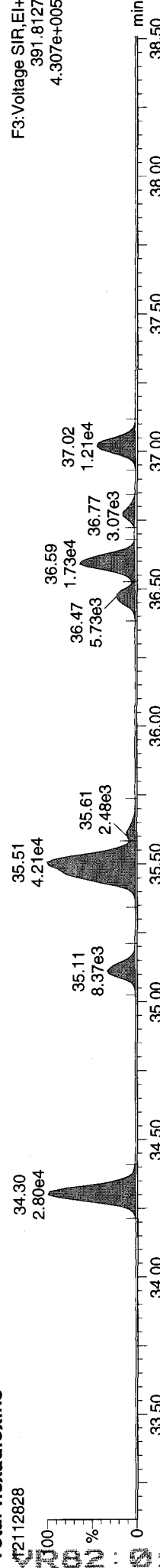
13C-123478-HxCDD



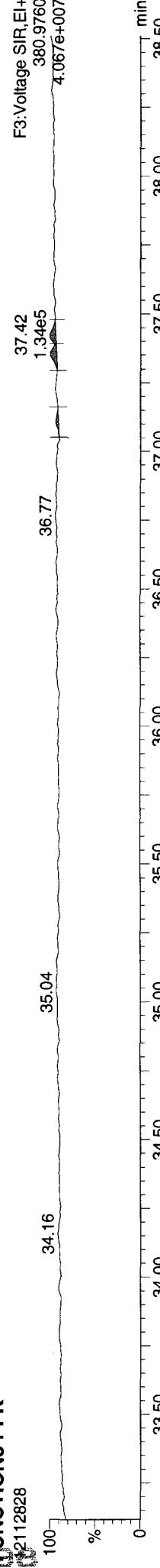
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

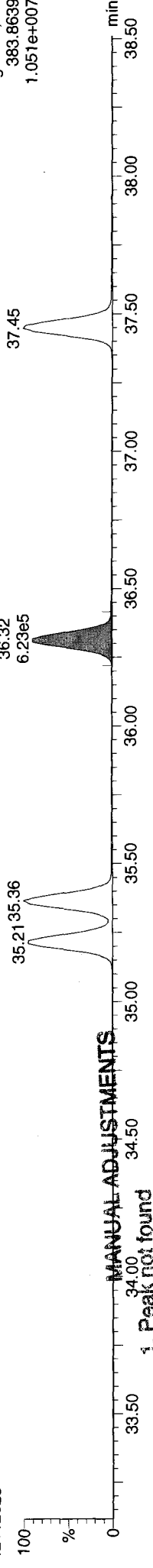
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR821, Conditions: AUTOSPEC01, User: pk

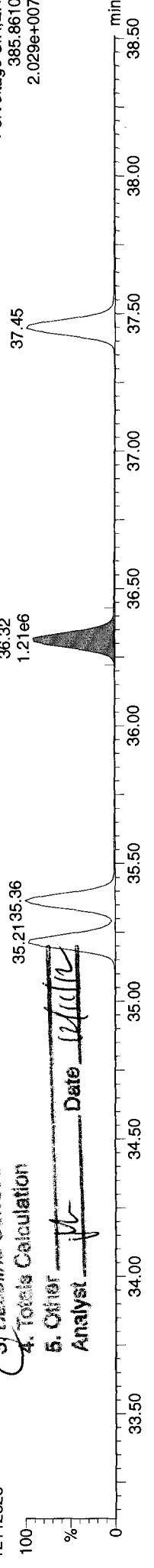
13C-234678-HxCDF

12112828



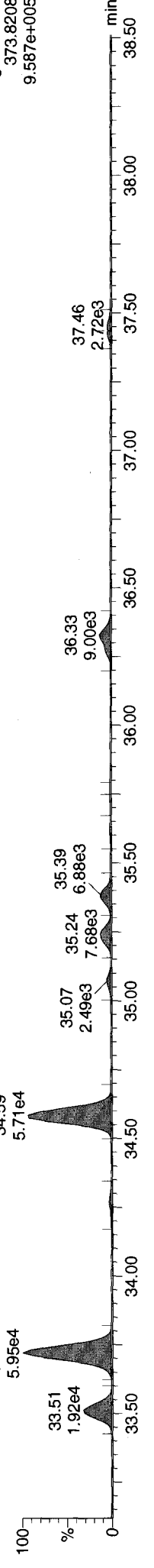
13C-234678-HxCDF

12112828



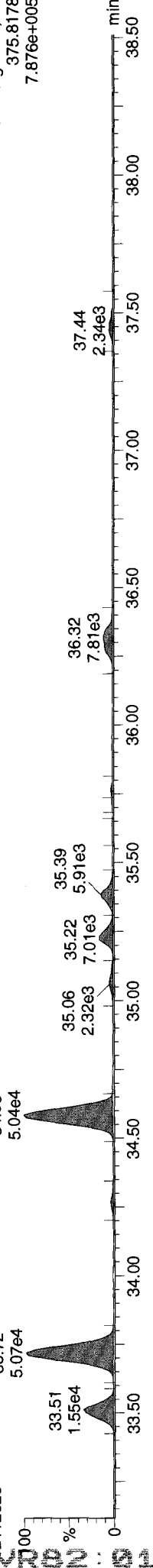
Total-hexafurans

12112828



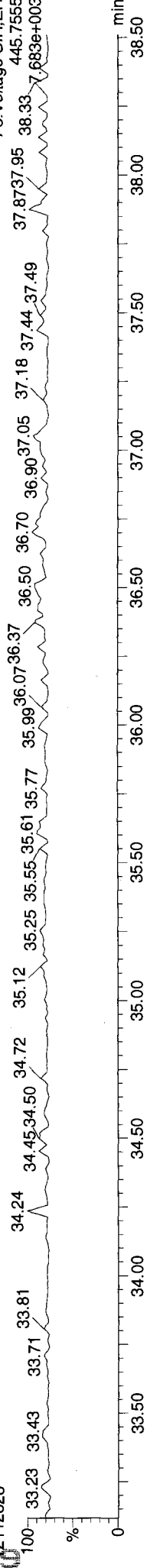
Total-hexafurans

12112828



FUNCTION3 OCDFE

12112828



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

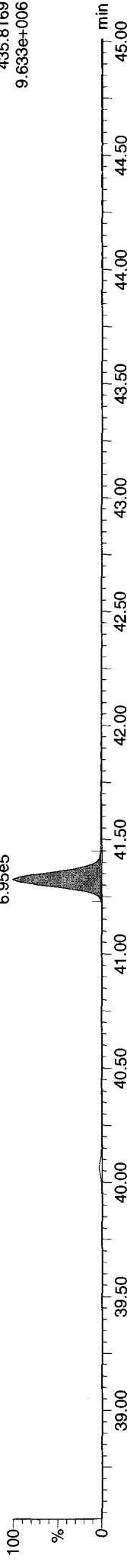
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

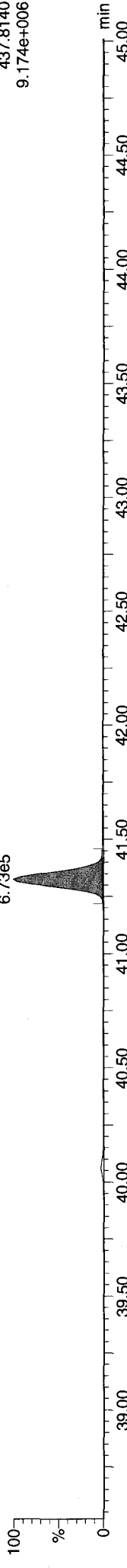
13C-1234678-HpCDD

12112828



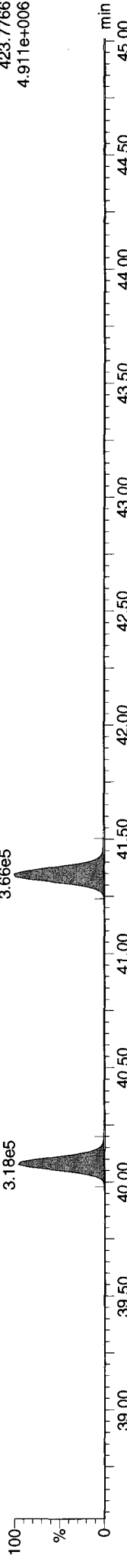
13C-1234678-HpCDD

12112828



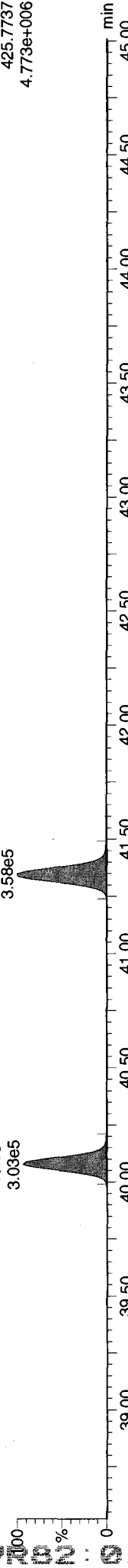
Total-heptadioxins

12112828



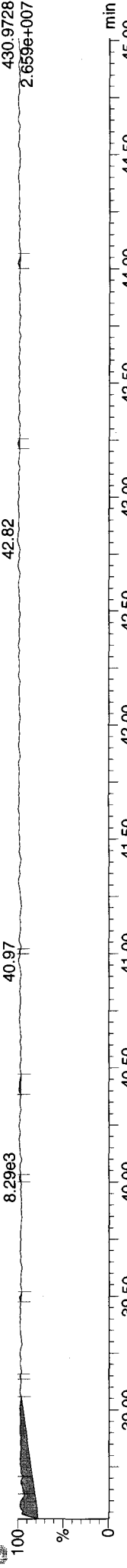
Total-heptadioxins

12112828



FUNCTION4 PFK

12112828

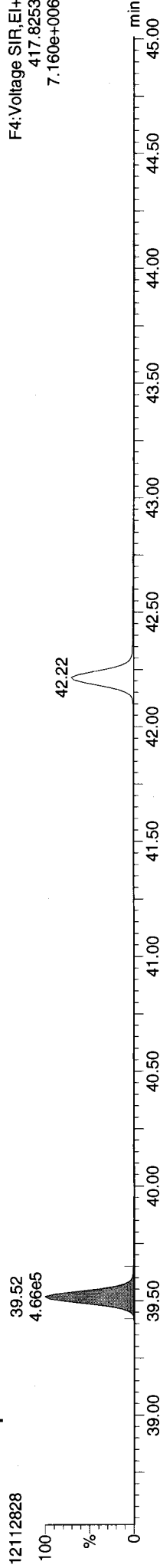


Quantify Sample Report MassLynx 4.1 SCN 714

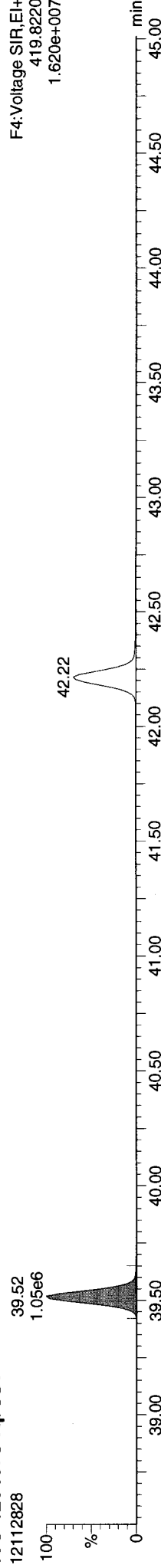
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR821, Conditions: AUTOSPEC01, User: pk

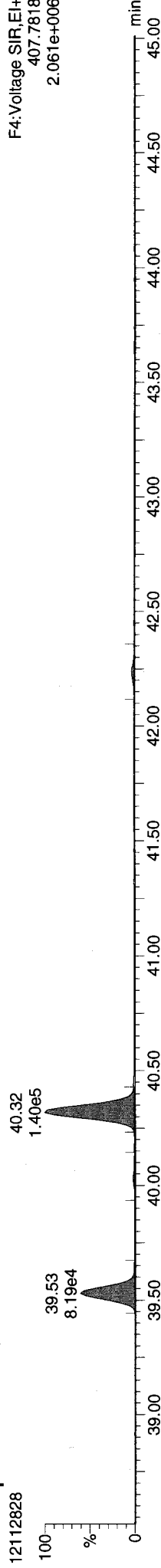
13C-1234678-HpCDF



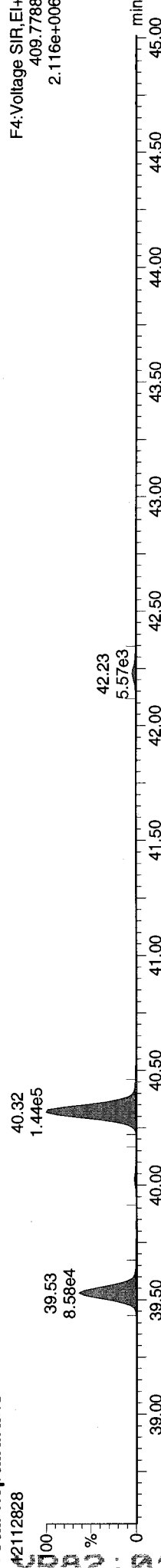
13C-1234678-HpCDF



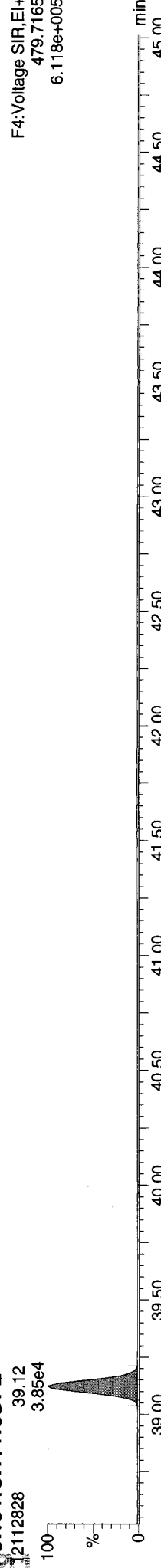
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



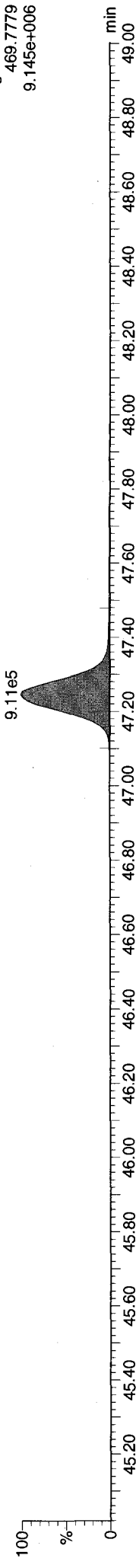
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

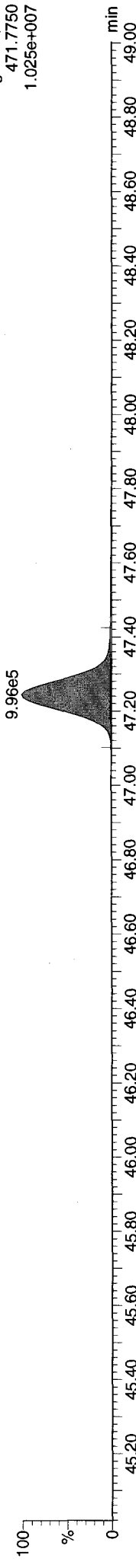
13C-OCDD

12112828



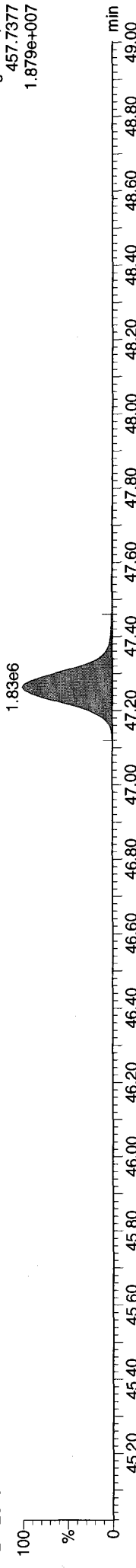
13C-OCDD

12112828



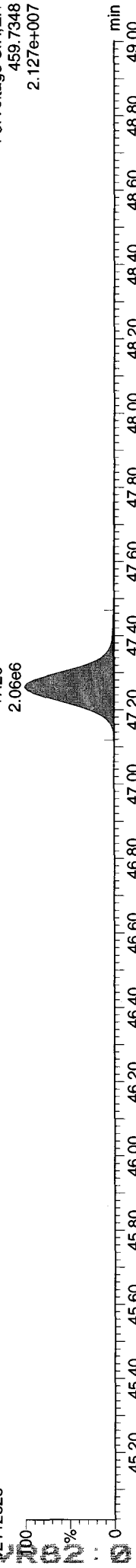
OCDD

12112828



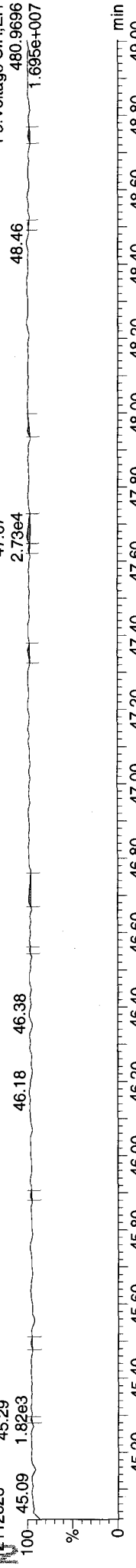
OCDD

12112828



JUNCTION5 PFK

12112828



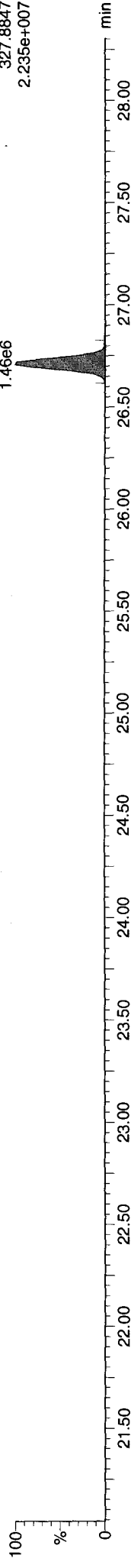
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:22:10 Pacific Standard Time

Name: 12112828, Date: 29-Nov-2012, Time: 09:44:52, ID: VR82I, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

12112828

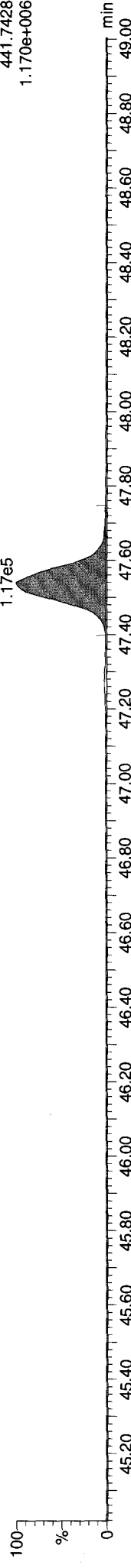
F1: Voltage SIR, EI+
327.8847
2.235e+007



OCDF

12112828

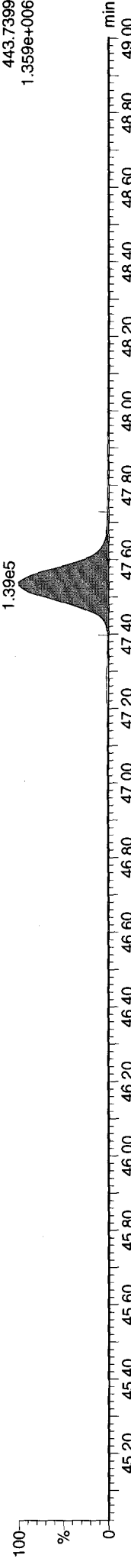
F5: Voltage SIR, EI+
441.7428
1.170e+006



OCDF

12112828

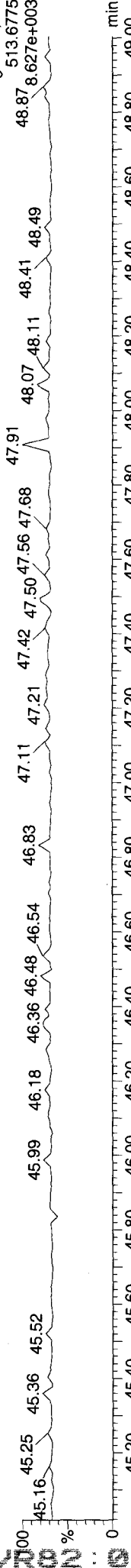
F5: Voltage SIR, EI+
443.7399
1.359e+006



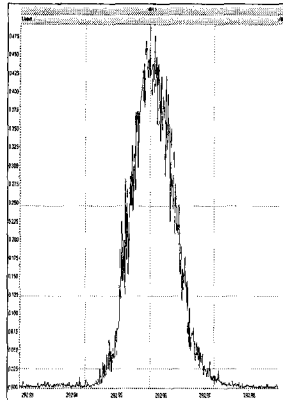
FUNCTION5 DCDPE

12112828

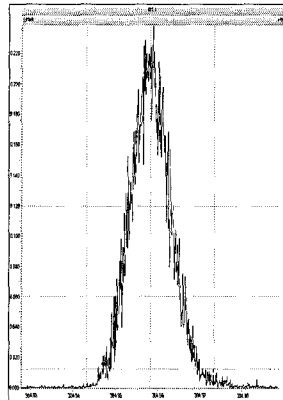
F5: Voltage SIR, EI+
513.6775
48.87
8.627e+003



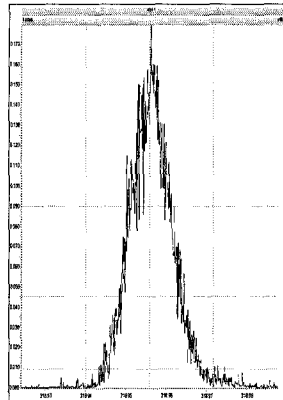
M 292.9824 R 13298



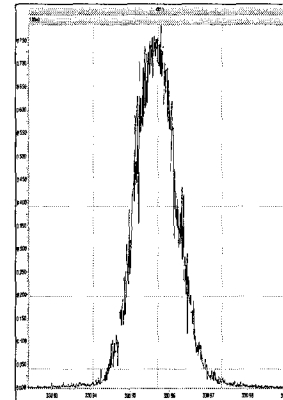
M 304.9824 R 14169



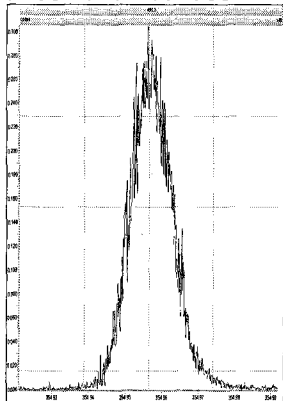
M 318.9792 R 14085



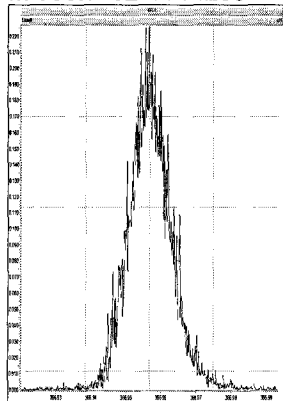
M 330.9792 R 13298



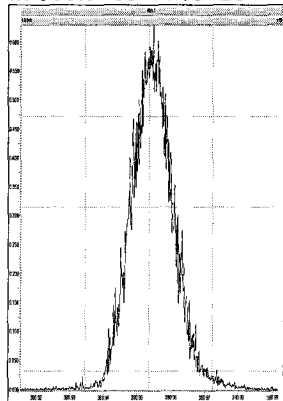
M 354.9792 R 13532



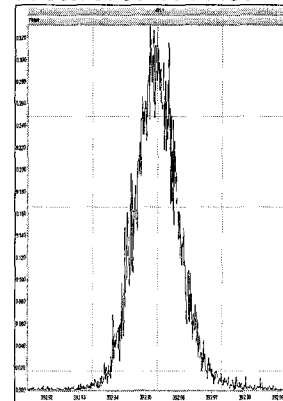
M 366.9792 R 14208



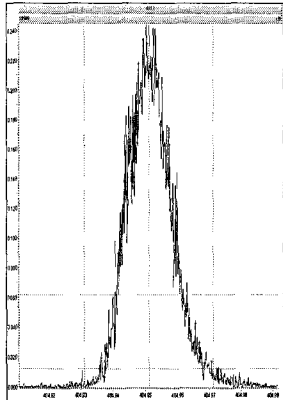
M 380.9760 R 13426



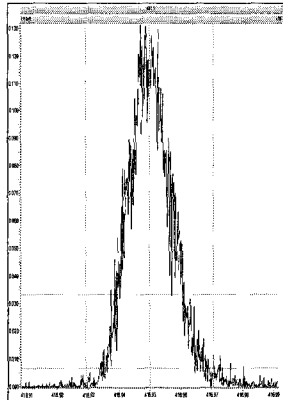
M 392.9760 R 14483



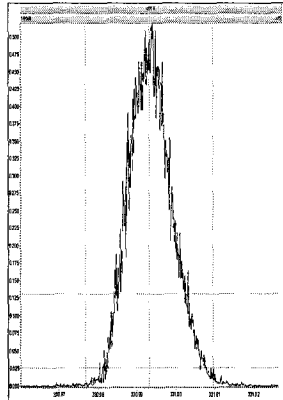
M 404.9760 R 13262



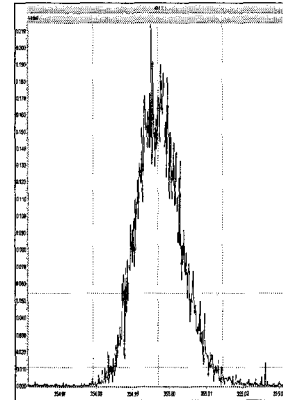
M 416.9760 R 14296



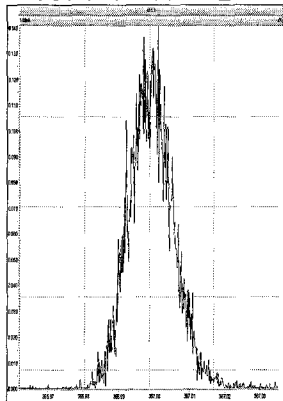
M 330.9792 R 13118



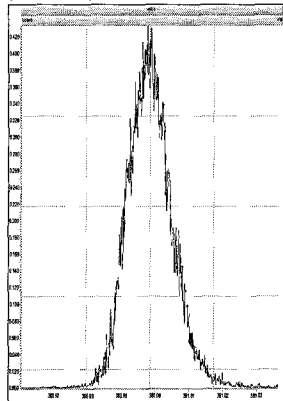
M 354.9792 R 13522



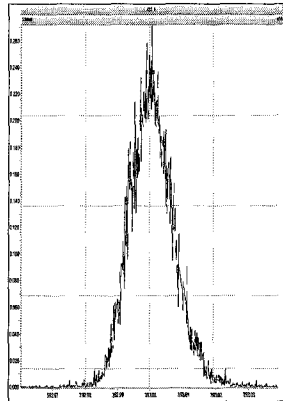
M 366.9792 R 14125



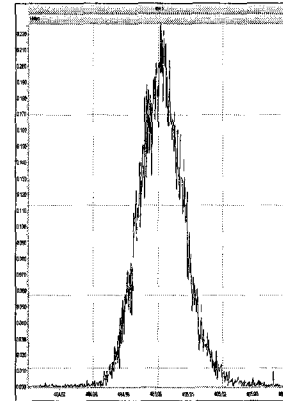
M 380.9760 R 12986



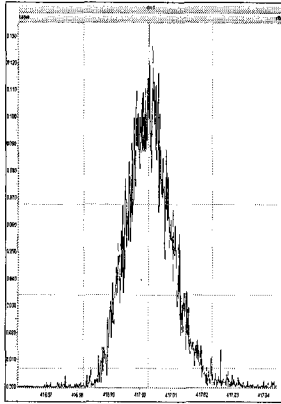
M 392.9760 R 13498



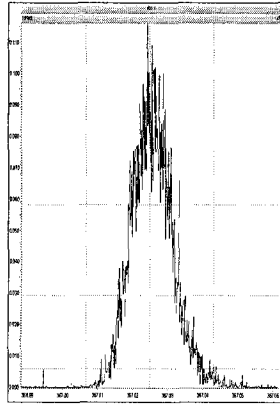
M 404.9760 R 12886



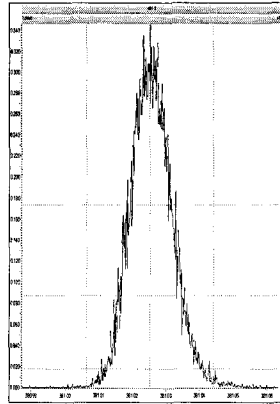
M 416.9760 R 13736



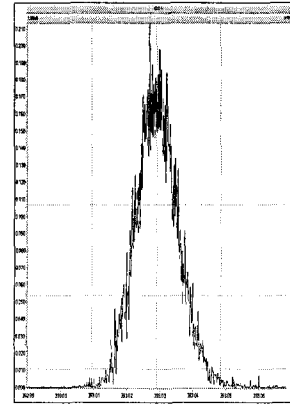
M 366.9792 R 14792



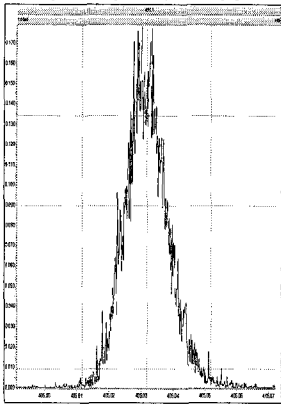
M 380.9760 R 13262



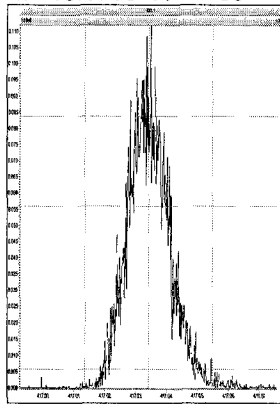
M 392.9760 R 13930



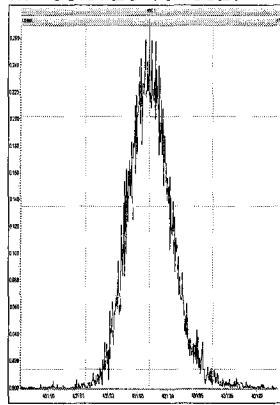
M 404.9760 R 13739



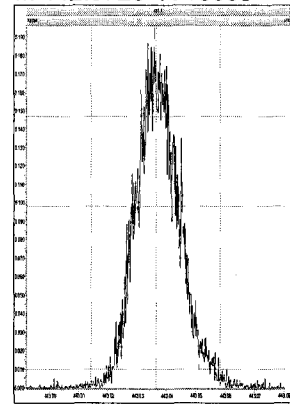
M 416.9760 R 14450



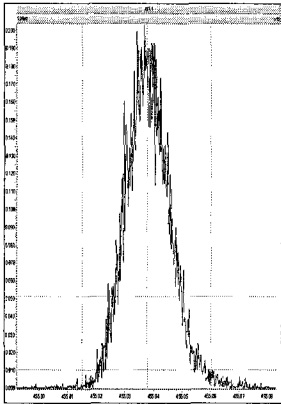
M 430.9728 R 13927



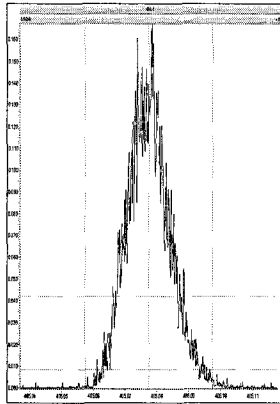
M 442.9728 R 13838



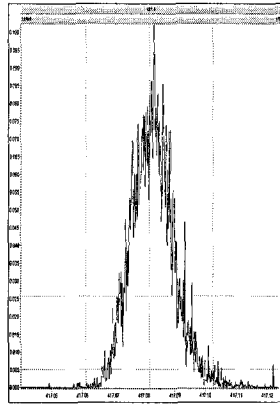
M 454.9728 R 14127



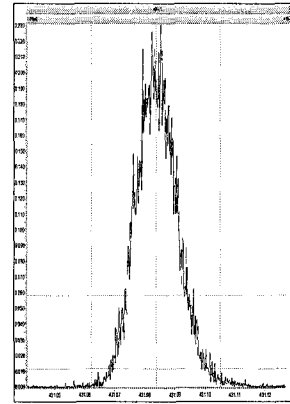
M 404.9760 R 14520



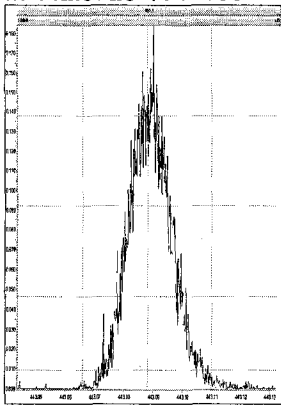
M 416.9760 R 15112



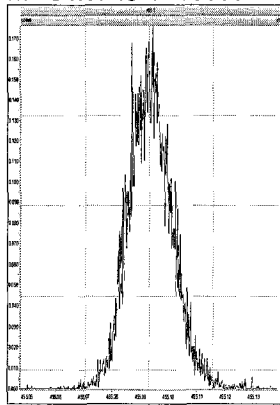
M 430.9728 R 13298



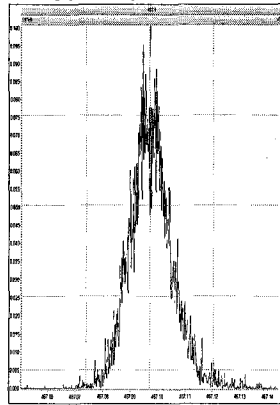
M 442.9728 R 14166



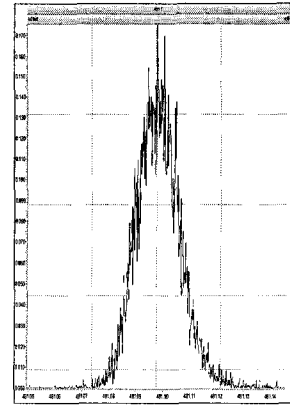
M 454.9728 R 13880



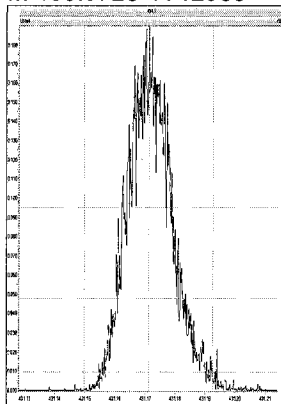
M 466.9728 R 14164



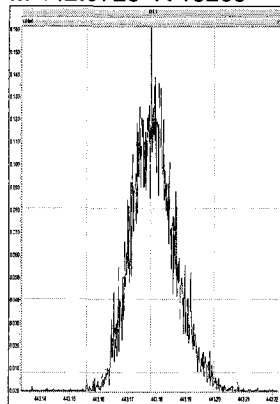
M 480.9696 R 13513



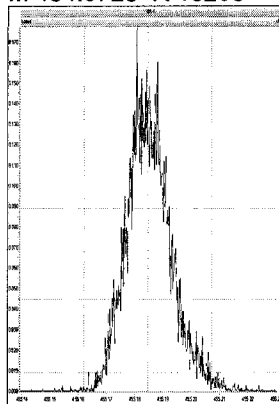
M 430.9728 R 12986



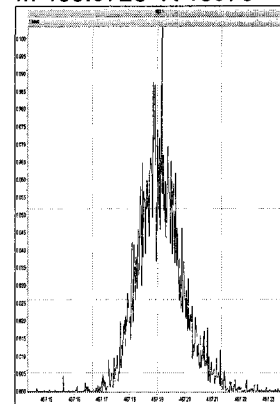
M 442.9728 R 13263



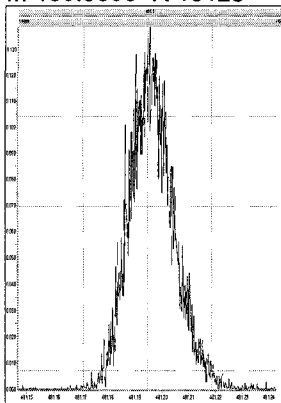
M 454.9728 R 13203



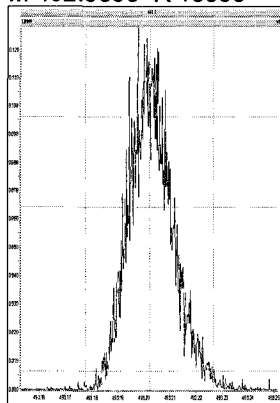
M 466.9728 R 13976



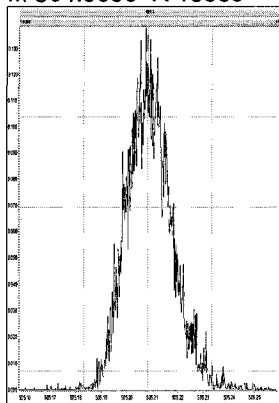
M 480.9696 R 13125



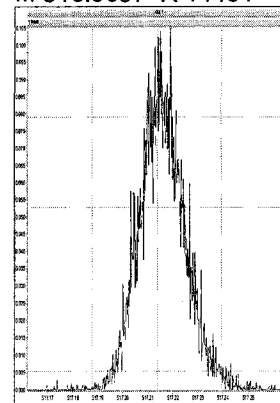
M 492.9696 R 13333



M 504.9696 R 13889



M 516.9697 R 14481



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

Calibration: P:\DIOXIN8290.PRO\CurvedB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

Name	RT	RR1	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SN	EMPC1	EMPC2	EMPC3
2378-TCDF	26.078	1.001	2.28e5	3.19e5	0.877	0.714	0.770	2387.2	NO	9.729	9.729
12378-PeCDF	30.212	1.000	1.24e6	8.46e5	0.896	1.466	1.550	4771.0	NO	49.499	49.499
23478-PeCDF	31.560	1.001	1.26e6	8.56e5	0.926	1.471	1.550	4728.6	NO	49.184	49.184
123478-HxCDF	35.232	1.001	1.03e6	8.78e5	1.068	1.171	1.240	4263.0	NO	49.277	49.277
234678-HxCDF	36.317	1.000	1.02e6	8.70e5	1.037	1.171	1.240	4070.4	NO	49.767	49.767
123678-HxCDF	35.375	1.000	1.07e6	8.92e5	1.035	1.196	1.240	4252.9	NO	49.944	49.944
123789-HxCDF	37.468	1.001	8.60e5	7.36e5	0.987	1.168	1.240	3542.4	NO	49.900	49.900
1234678-HpCDF	39.529	1.000	9.03e5	9.08e5	1.232	0.994	1.050	5091.0	NO	49.601	49.601
1234789-HpCDF	42.225	1.000	6.87e5	7.20e5	1.215	0.954	1.050	3343.2	NO	49.905	49.905
OCDF	47.531	1.006	1.05e6	1.21e6	1.138	0.865	0.890	7629.4	NO	98.756	98.756
2378-TCDD	26.706	1.001	1.81e5	2.33e5	1.049	0.777	0.770	1827.4	NO	9.817	9.817
12378-PeCDD	31.812	1.001	8.97e5	5.78e5	0.998	1.551	1.550	4412.4	NO	48.760	48.760
123478-HxCDD	36.460	1.000	7.92e5	6.34e5	0.971	1.248	1.240	4866.1	NO	50.701	50.701
123678-HxCDD	36.591	1.001	7.66e5	6.19e5	0.918	1.238	1.240	4681.6	NO	50.129	50.129
123789-HxCDD	37.019	1.012	7.55e5	6.22e5	0.932	1.213	1.240	4476.6	NO	50.025	50.025
1234678-HpCDD	41.338	1.000	6.35e5	6.04e5	1.017	1.052	1.050	3384.8	NO	49.385	49.385
OCDD	47.253	1.000	9.44e5	1.05e6	1.008	0.896	0.890	6159.8	NO	98.728	98.728
13C-2378-TCDF	26.048	1.006	2.81e6	3.61e6	1.473	0.779	0.770	9938.8	NO	106.092	106.092
13C-12378-PeCDF	30.201	1.167	2.87e6	1.84e6	1.148	1.562	1.550	10807.6	NO	99.816	99.816
13C-23478-PeCDF	31.538	1.218	2.85e6	1.80e6	1.113	1.586	1.550	10874.4	NO	101.596	101.596
13C-123478-HxCDF	35.210	0.952	1.22e6	2.40e6	1.209	0.507	0.510	4980.6	NO	101.826	101.826
13C-123678-HxCDF	35.363	0.956	1.31e6	2.49e6	1.269	0.525	0.510	5399.9	NO	101.716	101.716
13C-234678-HxCDF	36.306	0.981	1.24e6	2.42e6	1.236	0.513	0.510	5126.2	NO	100.716	100.716
13C-123789-HxCDF	37.446	1.012	1.12e6	2.12e6	1.107	0.531	0.510	4561.1	NO	99.674	99.674
13C-1234678-HpCDF	39.518	1.068	9.23e5	2.04e6	1.051	0.452	0.440	4826.5	NO	95.904	95.904
13C-1234789-HpCDF	42.215	1.141	7.20e5	1.60e6	0.815	0.450	0.440	3331.2	NO	96.846	96.846
13C-1234-TCDD	25.884	0.000	1.81e6	2.29e6	1.000	0.790	0.770	8150.6	NO	100.000	100.000
13C-2378-TCDD	26.691	1.031	1.76e6	2.25e6	0.946	0.780	0.770	7750.9	NO	103.323	103.323
13C-12378-PeCDD	31.790	1.228	1.85e6	1.18e6	0.721	1.572	1.550	18983.3	NO	102.402	102.402
13C-123478-HxCDD	36.449	0.985	1.63e6	1.27e6	0.991	1.278	1.240	9981.4	NO	99.453	99.453
13C-123678-HxCDD	36.569	0.988	1.66e6	1.35e6	1.025	1.228	1.240	9952.5	NO	99.935	99.935
13C-1234678-HpCDD	41.327	1.117	1.26e6	1.20e6	0.866	1.050	1.050	6264.2	NO	96.924	96.924
13C-OCDD	47.235	1.277	1.89e6	2.12e6	0.769	0.889	0.890	8764.5	NO	177.425	177.425

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

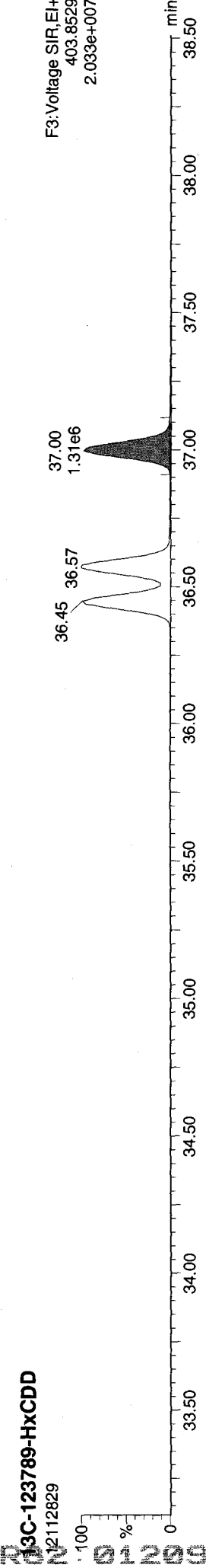
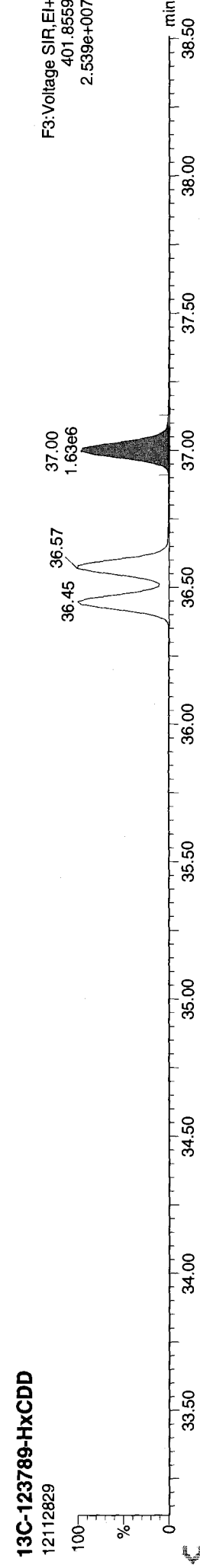
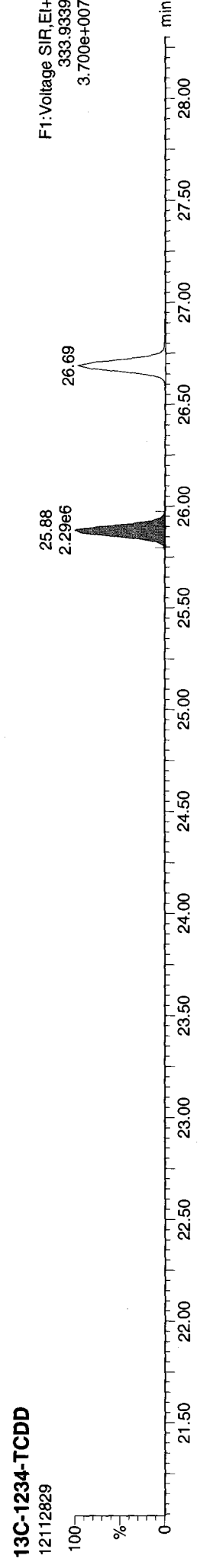
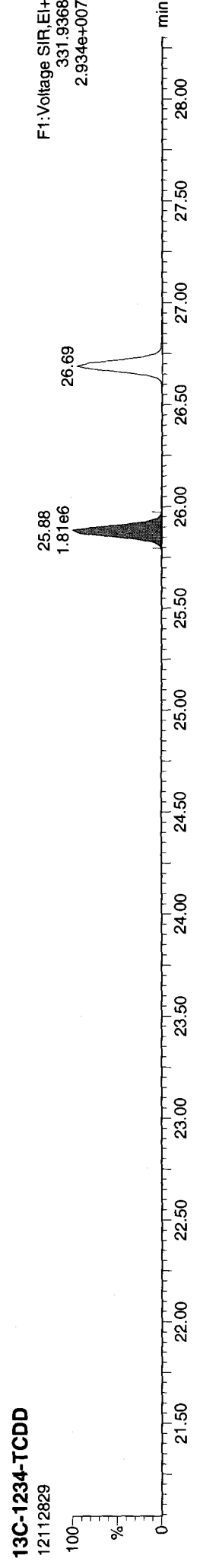
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
Name	RT	RRT	Ion1Area	Ion2Area	RRE	Ratio	Prog R	SN	EMPC2	EMPC	99													
13C-123789-HxCDD	36.997	0.000	1.63e6	1.31e6	1.000	1.247	1.240	9669.1	NO		100.000													
Total-tetrafurans			7.17e5		0.877					30.465	30.385													
Total-penta1			1.79e6							69.042	69.034													
Total-pentafurans			3.80e6		0.911					150.044	149.875													
Total-hexafurans			5.16e6		1.032					258.057	258.038													
Total-heptafurans			1.59e6		1.223					99.730	99.624													
Total-Furans			1.41e7		1.041					706.119	705.719													
Total-tetraioxins			9.98e5		1.049					54.314	54.128													
Total-pentadioxins			3.16e6		0.998					171.657	171.620													
Total-hexadioxins			3.30e6		0.940					216.011	214.968													
Total-heptadioxins			1.36e6		1.017					105.614	105.614													
Total-Dioxins			1.41e7		0.985					706.119	705.719													
Total-TEQ			2.82e7							1412.237	1411.437													
37CL-2378-TCDD	26.706	1.032	4.48e5		1.044			3401.2			10.461													
FUNCTION1 PFK			6.55e5																					
FUNCTION2 PFK			0.00e0																					
FUNCTION3 PFK			2.60e4								0.000													
FUNCTION4 PFK			8.74e5																					
FUNCTION5 PFK			5.38e5																					
FUNCTION1 HXCDPE			3.35e2								0.000													
FUNCTION1 HPCDPE			6.54e2								0.000													
FUNCTION2 HPCDPE			2.00e3								0.000													
FUNCTION3 OCDPE			0.00e0																					
FUNCTION4 NCDPE			0.00e0																					
FUNCTION5 DCDPE			0.00e0																					

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

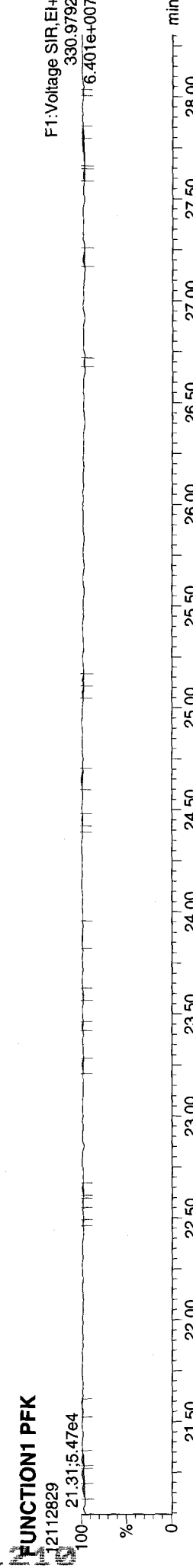
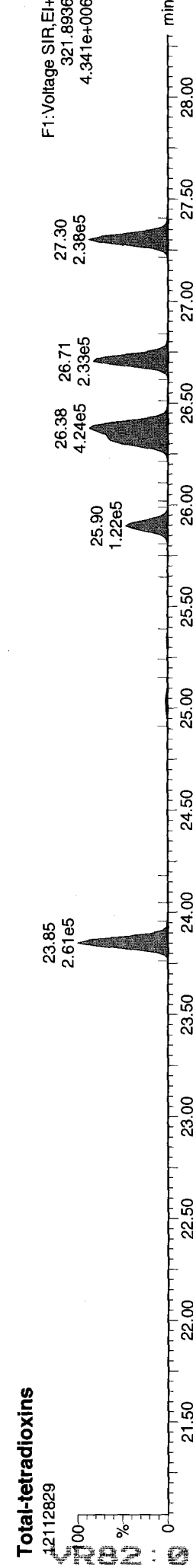
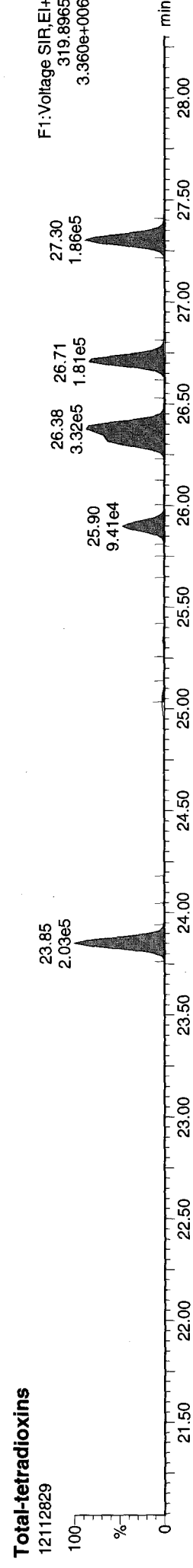
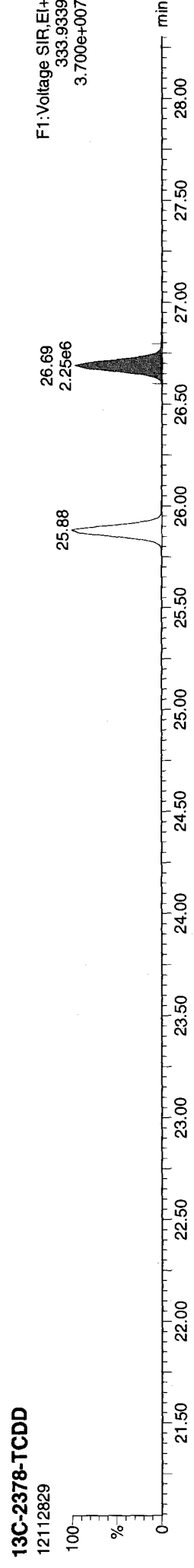
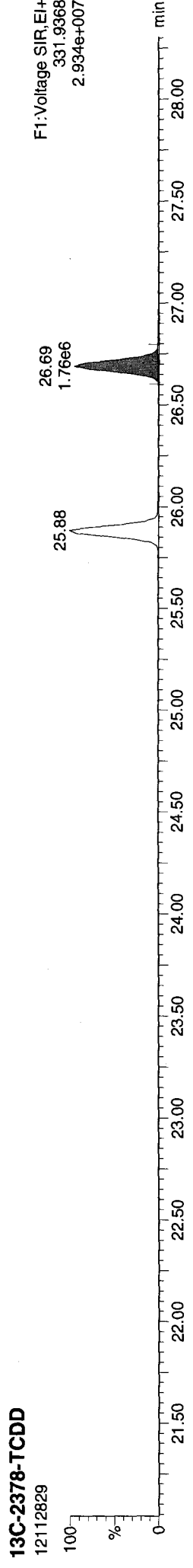
Method: P:\DIOXIN8290.PROMethDB\Dioxin\121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714
 Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
 Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

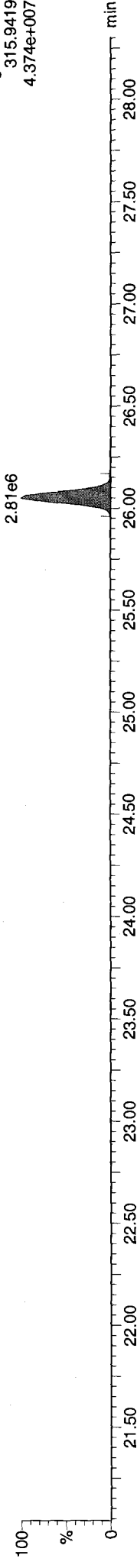
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

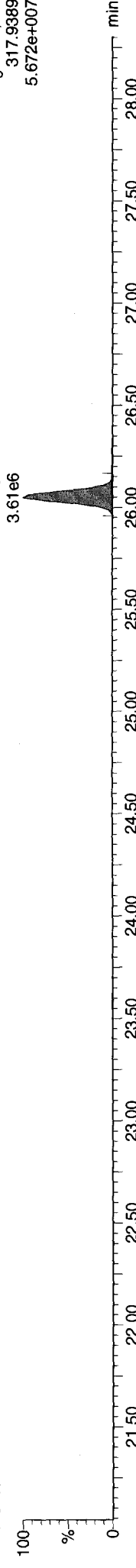
13C-2378-TCDF

12112829



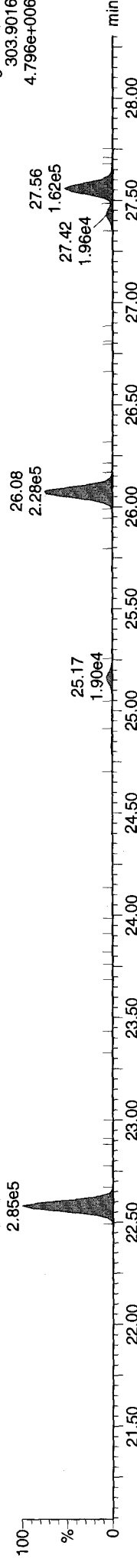
13C-2378-TCDF

12112829



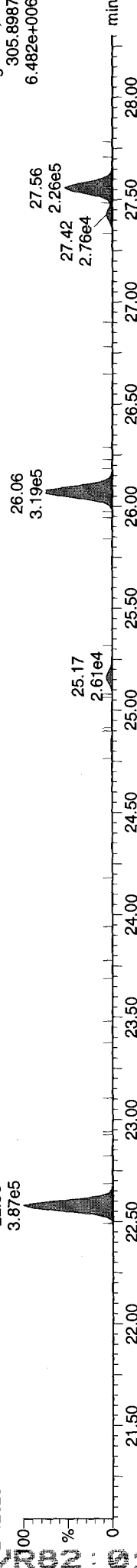
Total-tetrafurans

12112829



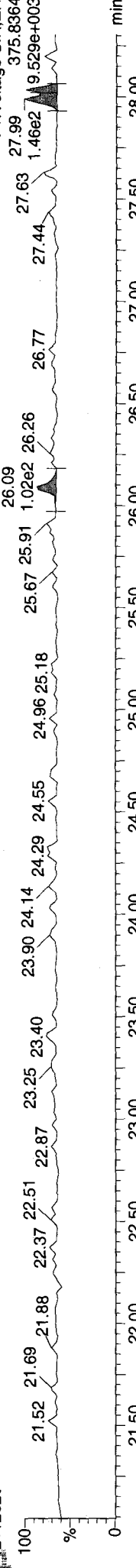
Total-tetrafurans

12112829



FUNCTION1 HXCDPE

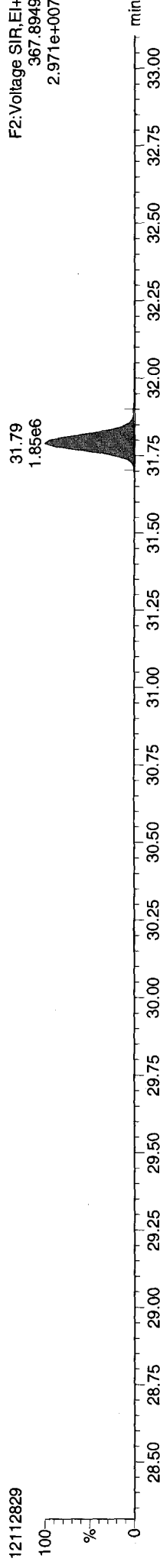
12112829



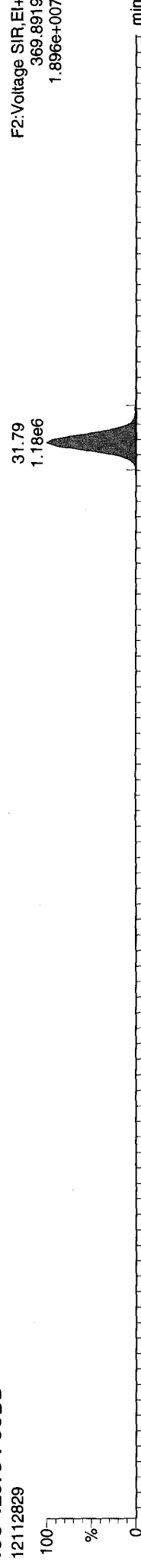
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

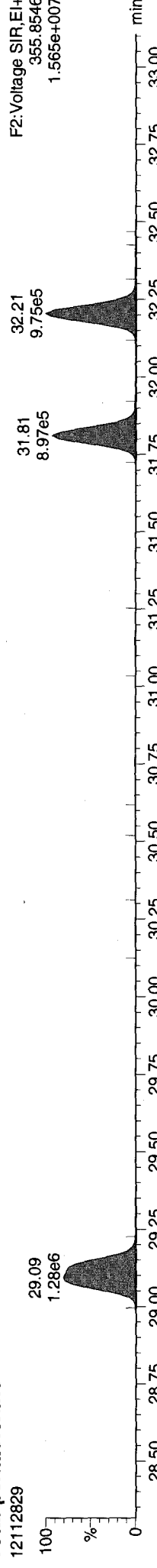
13C-12378-PeCDD



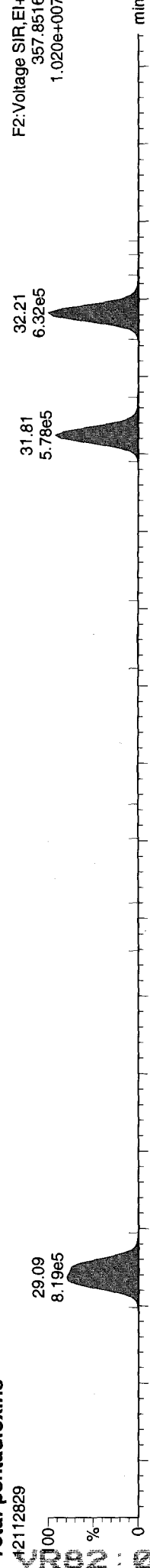
13C-12378-PeCDD



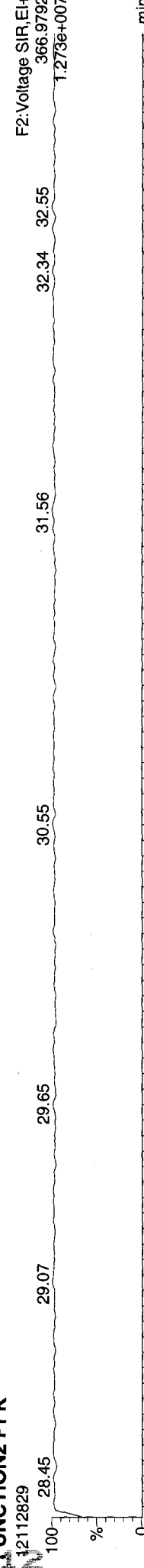
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

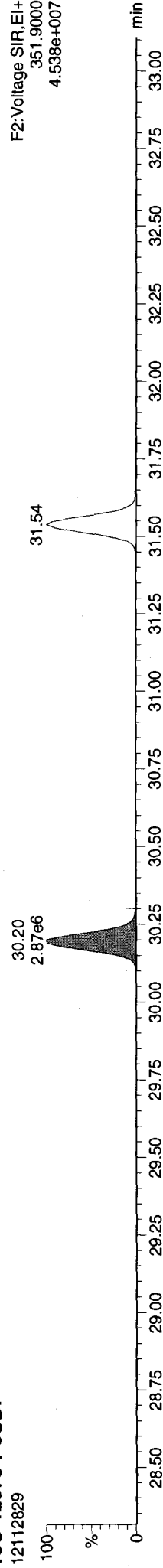


Quantify Sample Report MassLynx 4.1 SCN 714

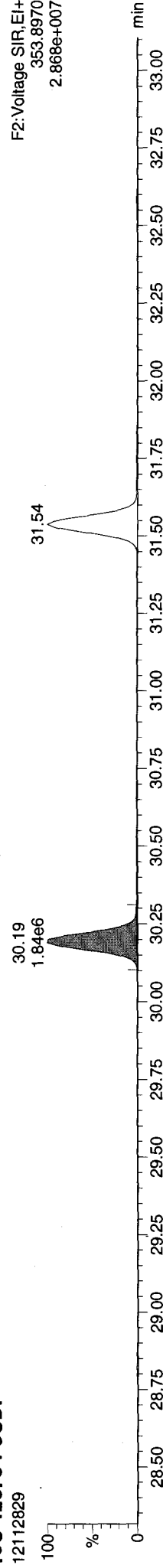
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

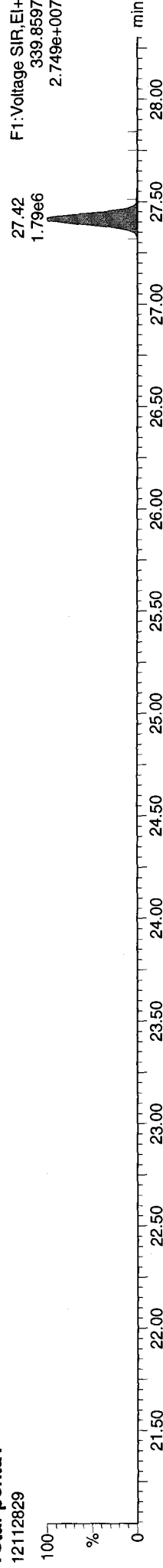
13C-12378-PeCDF



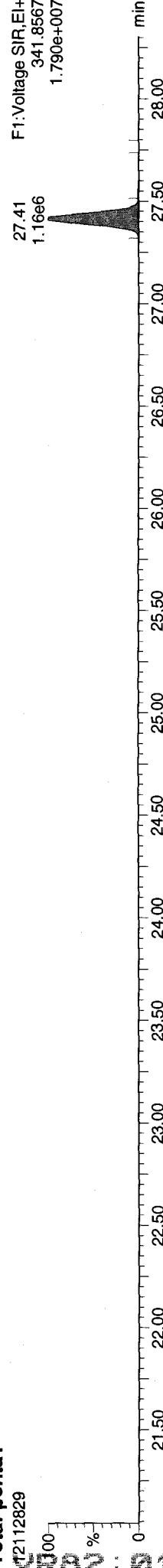
13C-12378-PeCDF



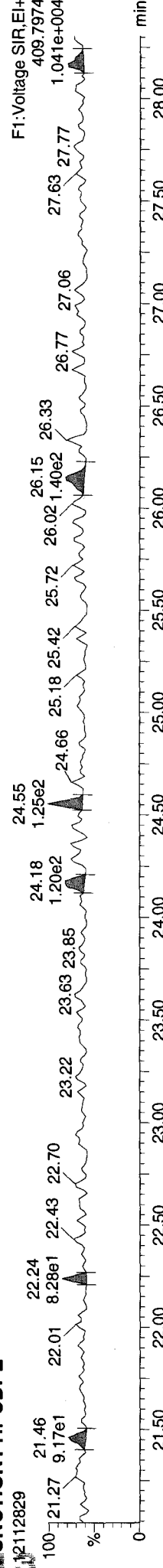
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

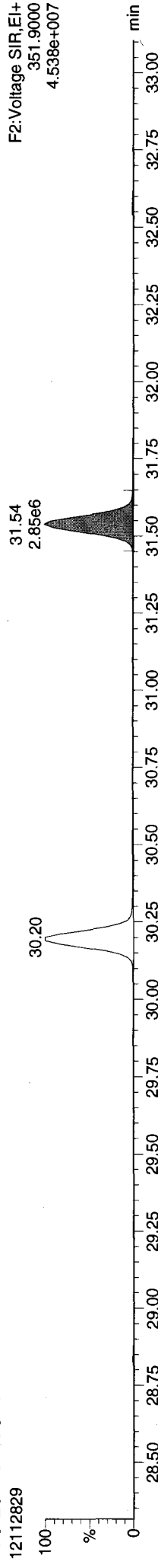


Quantify Sample Report MassLynx 4.1 SCN 714

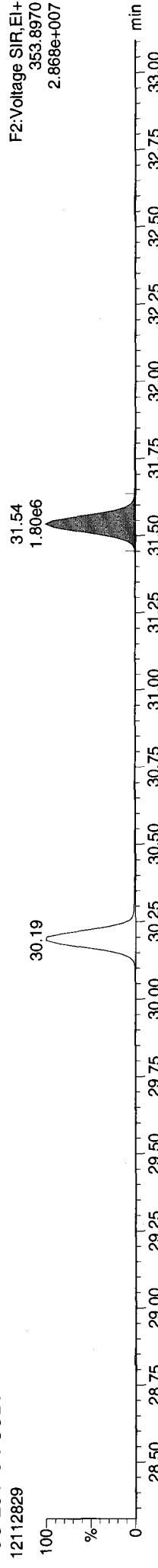
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

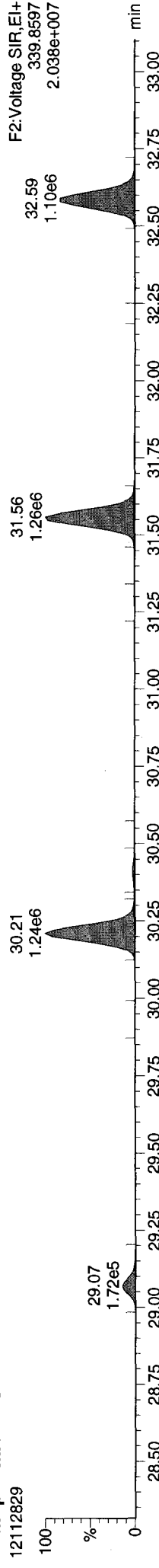
13C-23478-PeCDF



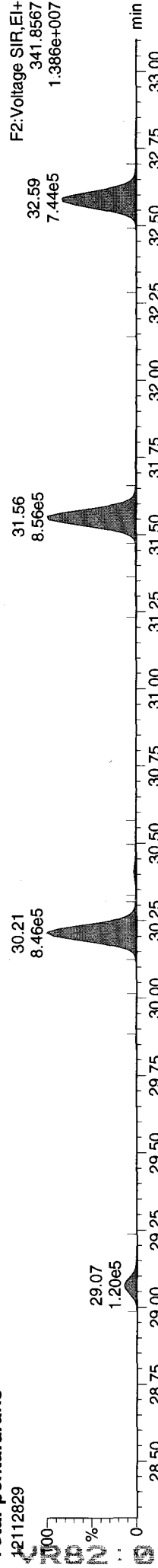
13C-23478-PeCDF



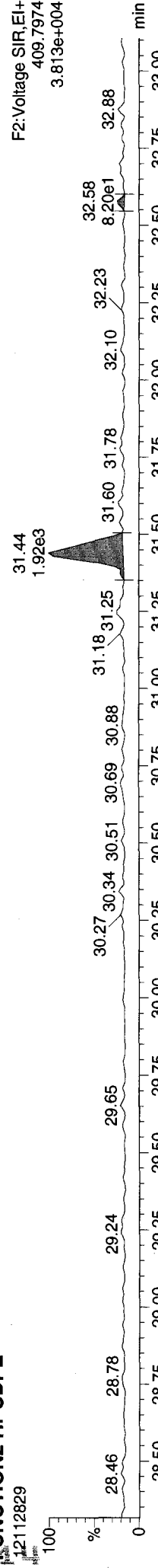
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



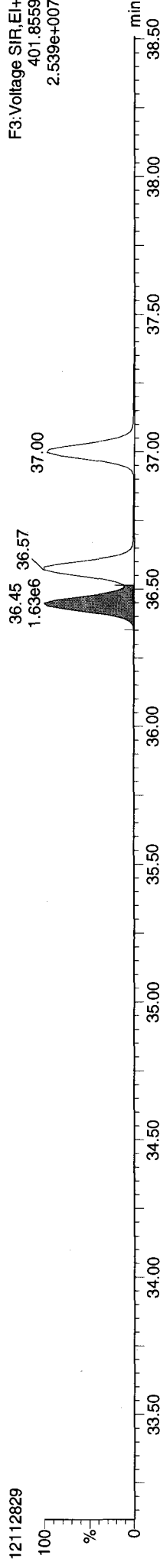
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

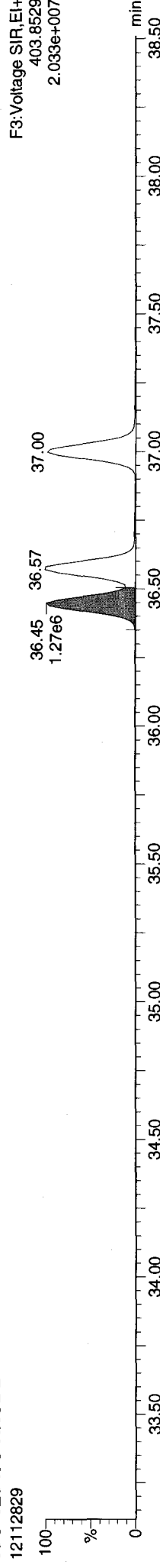
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

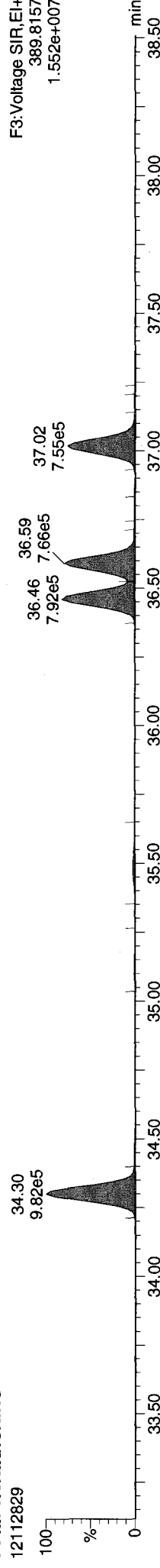
13C-123478-HxCDD



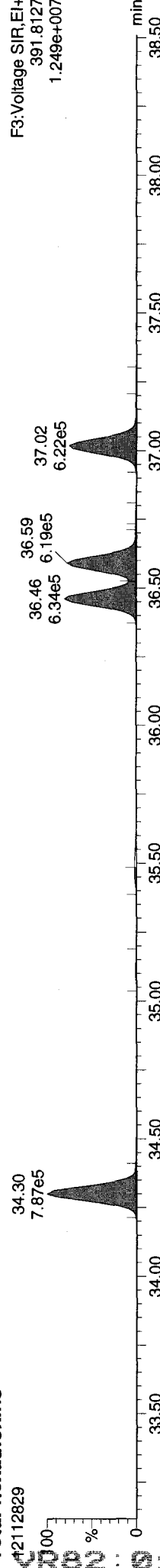
13C-123478-HxCDD



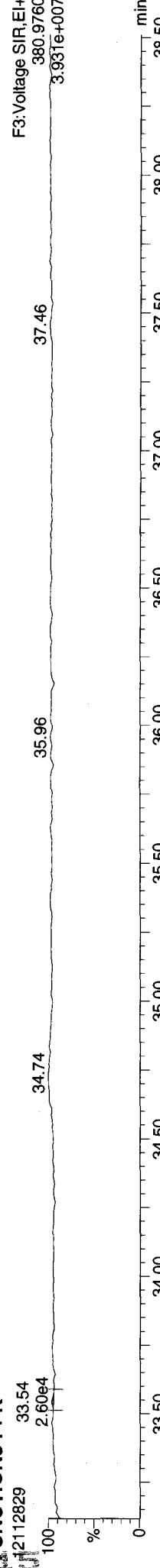
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



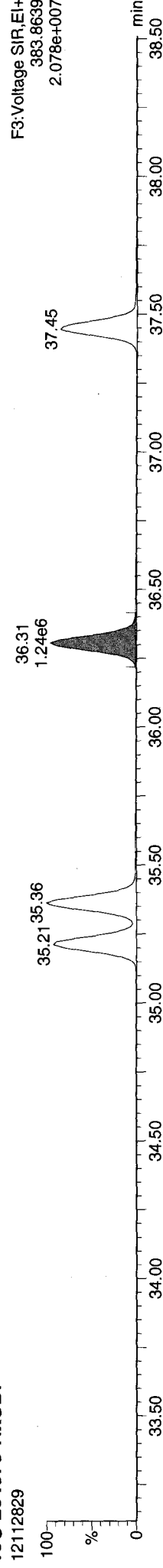
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Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

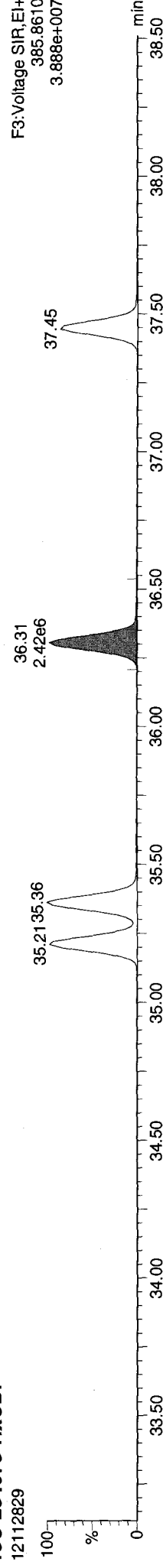
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

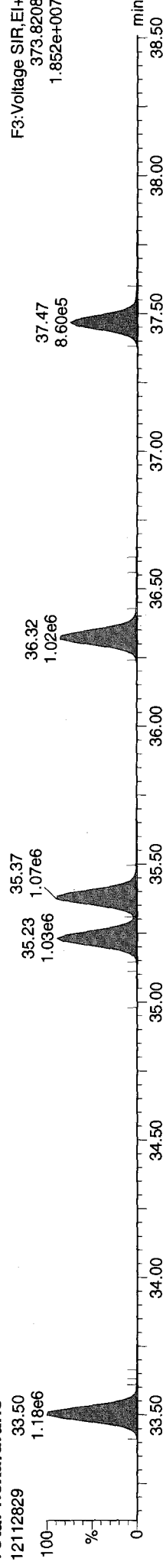
13C-234678-HxCDF



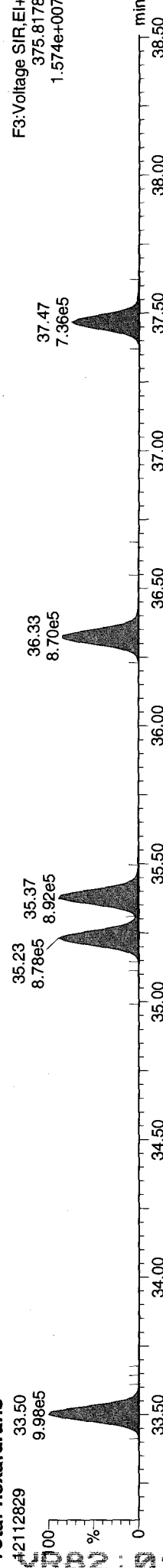
13C-234678-HxCDF



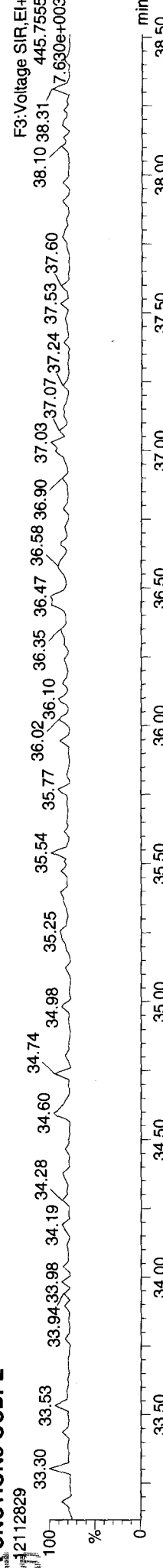
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

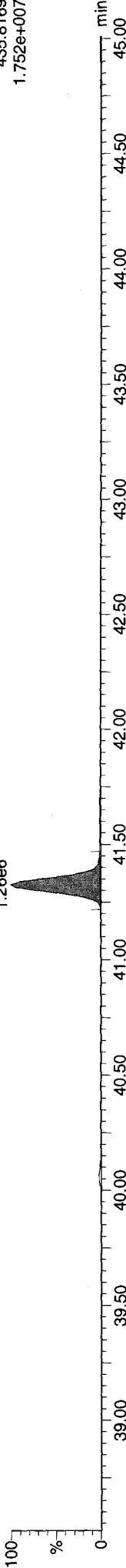
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

12112829

41.33
1.26e6

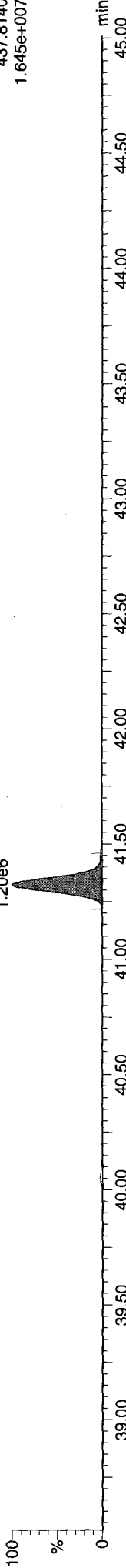


F4: Voltage SIR, EI+
435.8169
1.752e+007

13C-1234678-HpCDD

12112829

41.33
1.20e6

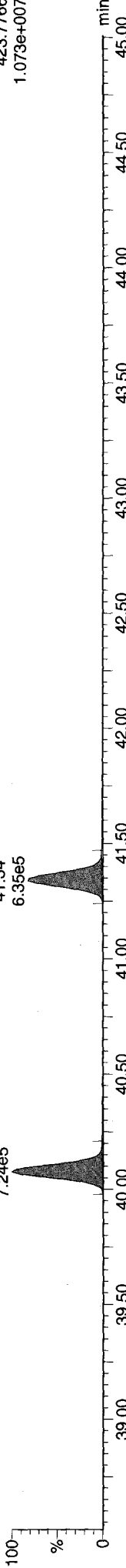


F4: Voltage SIR, EI+
437.8140
1.645e+007

Total-heptadioxins

12112829

40.08
7.24e5



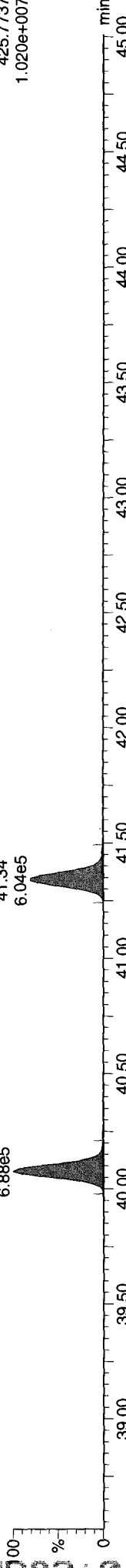
F4: Voltage SIR, EI+
423.7766
1.073e+007

41.34
6.35e5

Total-heptadioxins

12112829

40.08
6.88e5



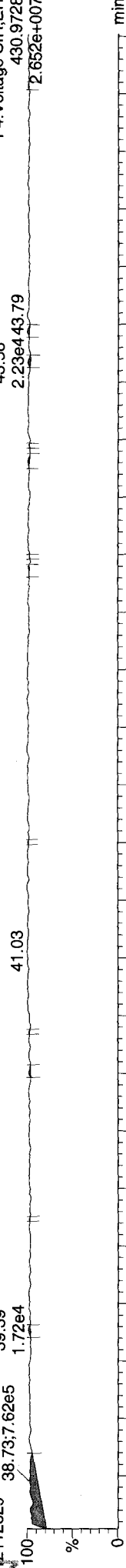
F4: Voltage SIR, EI+
425.7737
1.020e+007

41.34
6.04e5

FUNCTION4 PFK

12112829

39.39
38.73;7.62e5
1.72e4



F4: Voltage SIR, EI+
430.9728
2.652e+007

43.58
2.23e4 43.79

41.03

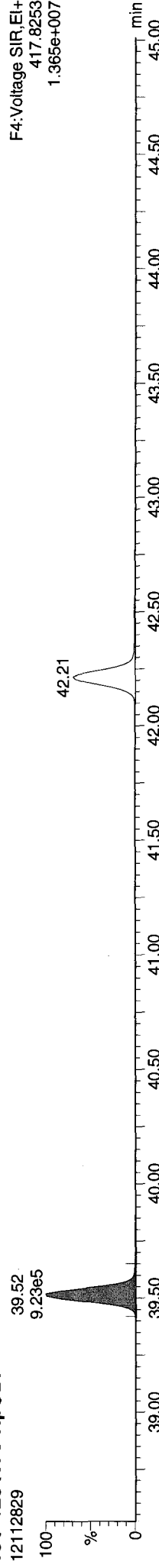
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld

Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time

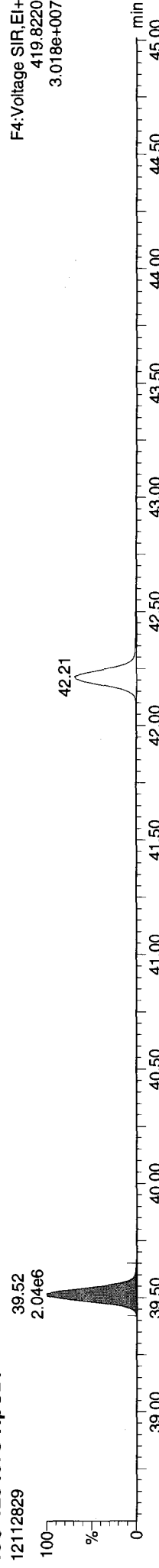
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

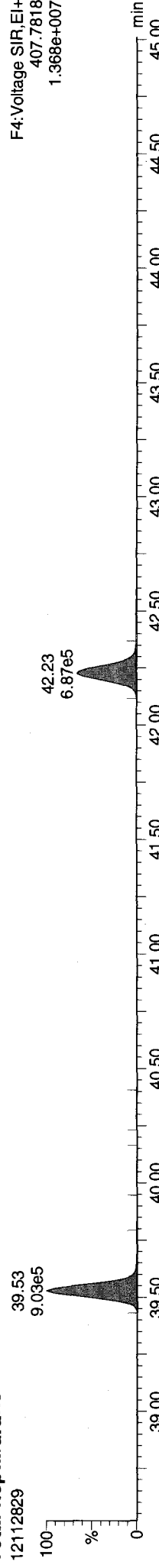
13C-1234678-HpCDF



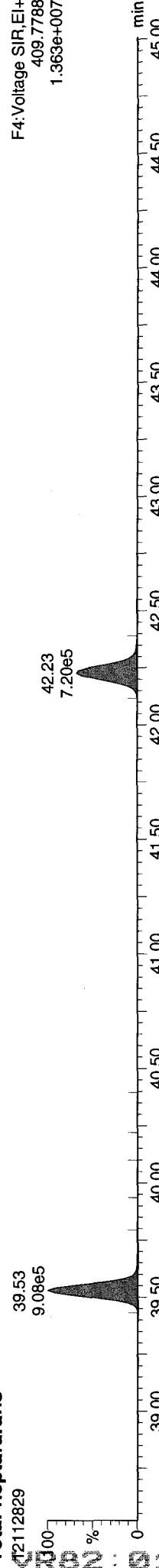
13C-1234678-HpCDF



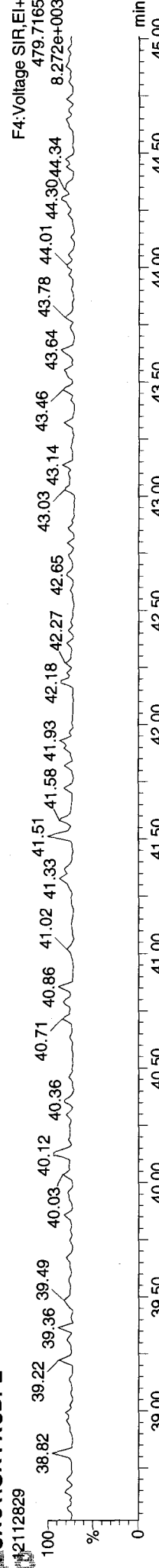
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

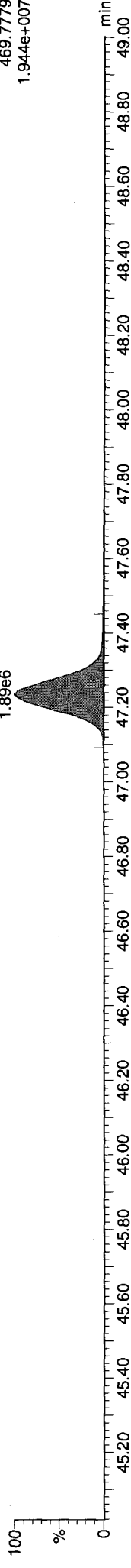
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112829

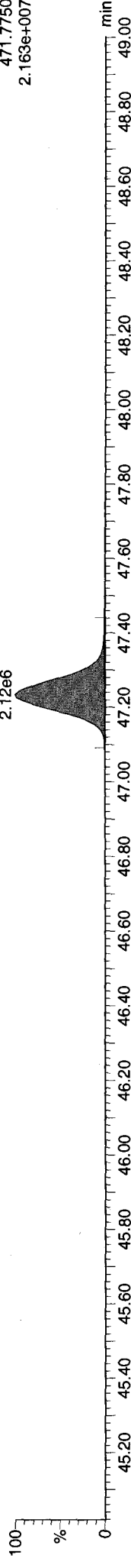
F5: Voltage SIR, EI+
469.7779
1.944e+007



13C-OCDD

12112829

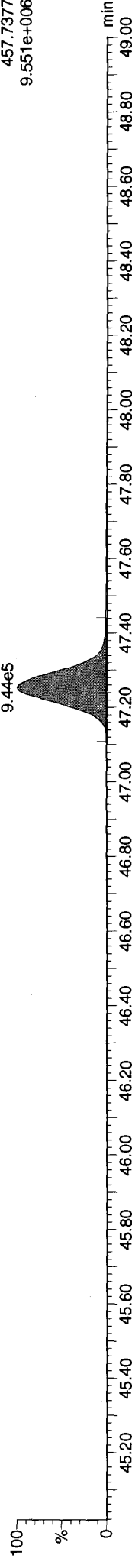
F5: Voltage SIR, EI+
471.7750
2.163e+007



OCDD

12112829

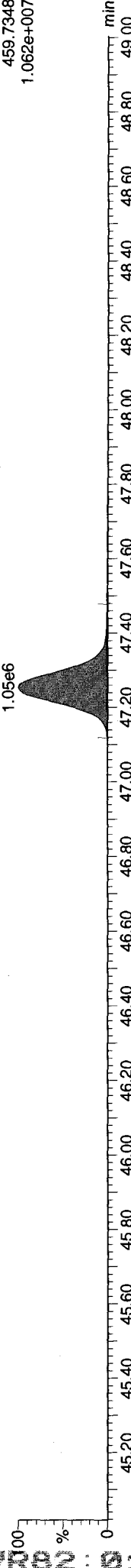
F5: Voltage SIR, EI+
457.7377
9.551e+006



OCDD

12112829

F5: Voltage SIR, EI+
459.7348
1.062e+007



FUNCTION5 PFK

12112829

F5: Voltage SIR, EI+
480.9696
1.621e+007



Quantify Sample Report MassLynx 4.1 SCN 714

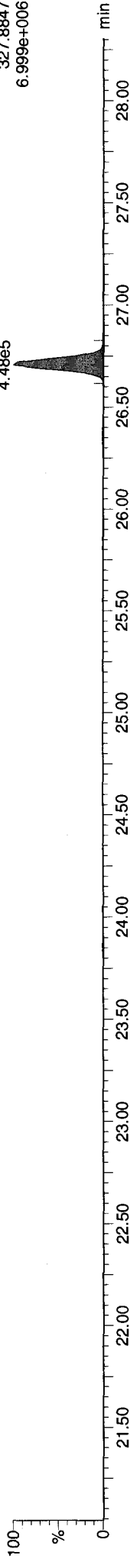
Dataset: P:\DIOXIN8290.PRO\121128DATA3.qld
Last Altered: Monday, December 10, 2012 16:32:24 Pacific Standard Time
Printed: Tuesday, December 11, 2012 09:18:04 Pacific Standard Time

Name: 12112829, Date: 29-Nov-2012, Time: 10:37:05, ID: CS3, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

12112829

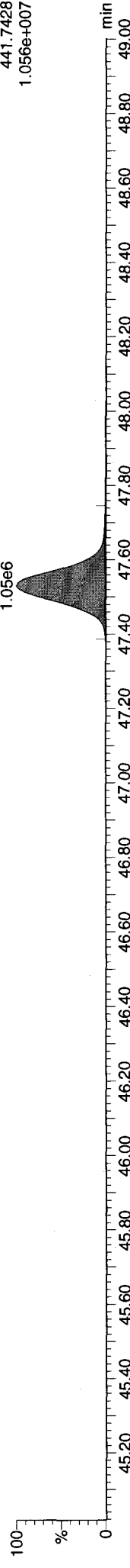
F1: Voltage SIR, EI+
327.8847
6.999e+006



OCDF

12112829

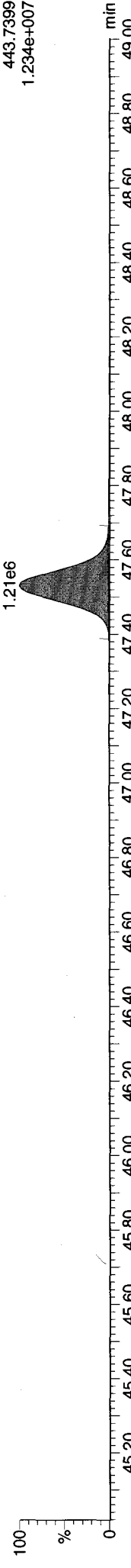
F5: Voltage SIR, EI+
441.7428
1.056e+007



OCDF

12112829

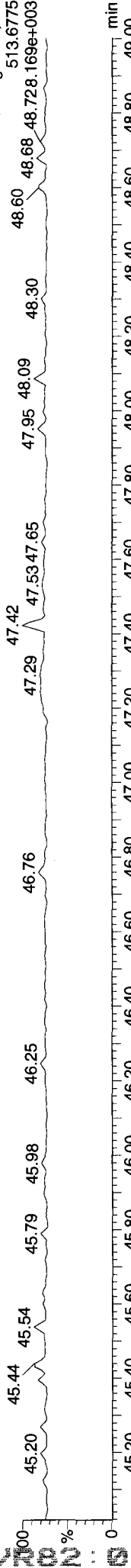
F5: Voltage SIR, EI+
443.7399
1.234e+007



FUNCTION5 DCDPE

12112829

F5: Voltage SIR, EI+
513.6775
48.68 48.728.169e+003



12112829

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld
 Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

12/11/12

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14
 Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR8ZA 5X, Conditions: AUTOSPEC01, User: pk

	Name	RT	RET	Ion1Area	Ion2Area	RRF	Ratio	Pred R	SM	EMPC?	EMPC	pg
1	2378-TCDF	26.063	1.001	4.07e3	5.52e3	0.877	0.738	0.770	49.2	NO	1.607	1.607
2	12378-PeCDF	30.212	1.000	4.59e3	3.39e3	0.896	1.352	1.550	37.2	NO	1.452	1.452
3	23478-PeCDF	31.549	1.000	5.44e3	4.48e3	0.926	1.213	1.550	38.5	YES	1.595	1.768
4	123478-HxCDF	35.232	1.001	1.18e4	9.53e3	1.068	1.235	1.240	106.2	NO	4.117	4.117
5	234678-HxCDF	36.328	1.000	1.55e4	7.84e3	1.037	1.976	1.240	98.5	YES	3.596	4.778
6	123678-HxCDF	35.386	1.001	1.18e4	1.00e4	1.035	1.181	1.240	114.7	NO	4.215	4.215
7	123789-HxCDF	37.446	1.000	5.49e3	3.64e3	0.987	1.506	1.240	41.6	YES	1.659	1.856
8	1234678-HpCDF	39.529	1.000	1.62e5	1.70e5	1.232	0.950	1.050	1704.9	NO	67.836	67.836
9	1234789-HpCDF	42.225	1.000	6.99e3	8.04e3	1.215	0.870	1.050	62.5	YES	3.501	3.854
10	OCDF	47.540	1.006	2.63e5	3.12e5	1.138	0.843	0.890	1607.7	NO	194.421	194.421
11	2378-TCDD	26.706	1.001	8.32e2	1.69e3	1.049	0.493	0.770	8.7	YES	0.366	0.482
12	12378-PeCDD	31.812	1.001	9.84e3	6.27e3	0.998	1.570	1.550	99.4	NO	4.045	4.045
13	123478-HxCDD	36.471	1.001	1.57e4	1.24e4	0.971	1.269	1.240	149.7	NO	7.422	7.422
14	123678-HxCDD	36.602	1.001	5.59e4	4.54e4	0.918	1.231	1.240	543.7	NO	26.106	26.106
15	123789-HxCDD	37.019	1.012	3.28e4	2.73e4	0.932	1.203	1.240	315.8	NO	15.843	15.843
16	1234678-HpCDD	41.348	1.000	9.38e5	9.06e5	1.017	1.036	1.050	3385.7	NO	473.969	473.969
17	OCDD	47.262	1.000	4.59e6	5.15e6	1.008	0.892	0.890	11870.5	NO	3715.685	3715.685
18	13C-2378-TCDF	26.048	1.006	2.95e5	3.86e5	1.473	0.764	0.770	1387.6	NO	12.386	12.386
19	13C-12378-PeCDF	30.201	1.167	3.74e5	2.39e5	1.148	1.562	1.550	2070.8	NO	14.302	14.302
20	13C-23478-PeCDF	31.538	1.218	3.71e5	2.34e5	1.113	1.587	1.550	2103.5	NO	14.574	14.574
21	13C-123478-HxCDF	35.210	0.951	1.65e5	3.19e5	1.209	0.518	0.510	1513.3	NO	13.642	13.642
22	13C-123678-HxCDF	35.363	0.956	1.70e5	3.31e5	1.269	0.514	0.510	1564.7	NO	13.459	13.459
23	13C-234678-HxCDF	36.317	0.981	1.60e5	3.11e5	1.236	0.513	0.510	1400.4	NO	12.966	12.966
24	13C-123789-HxCDF	37.446	1.012	1.73e5	3.26e5	1.107	0.529	0.510	1533.1	NO	15.340	15.340
25	13C-1234678-HpCDF	39.518	1.068	1.20e5	2.77e5	1.051	0.434	0.440	508.3	NO	12.870	12.870
26	13C-1234789-HpCDF	42.215	1.141	1.00e5	2.21e5	0.815	0.453	0.440	378.0	NO	13.409	13.409
27	13C-1234-TCDD	25.884	0.000	1.64e6	2.09e6	1.000	0.784	0.770	8662.7	NO	100.000	100.000
28	13C-2378-TCDD	26.691	1.031	2.13e5	2.85e5	0.946	0.750	0.770	1125.7	NO	14.102	14.102
29	13C-12378-PeCDD	31.790	1.228	2.44e5	1.54e5	0.721	1.583	1.550	1699.6	NO	14.824	14.824
30	13C-123478-HxCDD	36.449	0.985	2.15e5	1.75e5	0.991	1.232	1.240	1568.8	NO	13.406	13.406
31	13C-123678-HxCDD	36.580	0.988	2.34e5	1.89e5	1.025	1.235	1.240	1712.5	NO	14.041	14.041
32	13C-1234678-HpCDD	41.327	1.117	1.96e5	1.87e5	0.866	1.048	1.050	1670.2	NO	15.033	15.033
33	13C-OCDD	47.244	1.277	2.47e5	2.73e5	0.769	0.905	0.890	1493.2	NO	22.995	22.995

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld
 Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
 Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

Name	RT	PRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	EMPC?	EMPG	pg
34	37.008	0.000	1.63e6	1.31e6	1.000	1.248	1.240	12022.3	NO		100.000
Total-tetrafurans			5.46e4		0.877					27.243	21.344
Total-penta1			1.21e5							36.011	36.011
Total-pentafurans			5.24e4		0.911					23.283	16.192
Total-hexafurans			3.07e5		1.032					117.977	112.408
Total-heptafurans			4.46e5		1.223					200.415	196.840
Total-Furans			1.24e6		1.041					599.381	577.217
Total-tetraioxins			8.90e3		1.049					7.590	3.773
Total-pentadioxins			3.98e4		0.998					19.663	16.503
Total-hexadioxins			3.60e5		0.940					173.033	170.494
Total-heptadioxins			2.08e6		1.017					1054.932	1054.932
Total-Dioxins			1.24e6		0.985					599.381	577.217
Total-TEQ			2.49e6		1.044					1198.762	1154.433
37CL-2378-TCDD	26.706	1.032	2.94e5					1853.8			7.536
FUNCTION1 PFK			6.87e6								0.000
FUNCTION2 PFK			1.59e5								0.000
FUNCTION3 PFK			1.93e6								0.000
FUNCTION4 PFK			2.84e5								0.000
FUNCTION5 PFK			2.71e5								0.000
FUNCTION1 HXCDPE			7.14e2								0.000
FUNCTION1 HPCDPE			1.19e3								0.000
FUNCTION2 HPCDPE			4.41e2								0.000
FUNCTION3 OCDPE			0.00e0								0.000
FUNCTION4 NCDPE			8.90e3								0.000
FUNCTION5 DCDPE			0.00e0								0.000

12112833

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

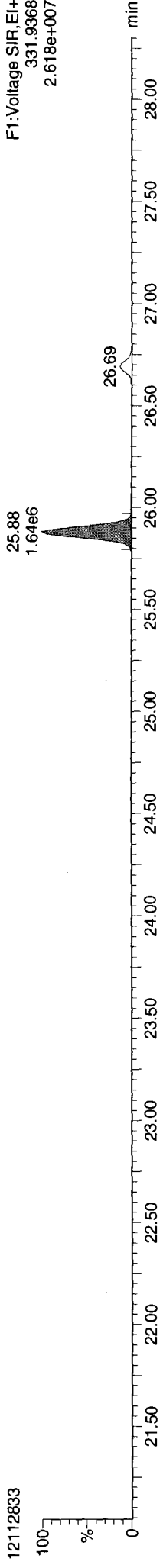
Method: P:\DIOXIN8290.PROMethDB\Dioxin\121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

12112833

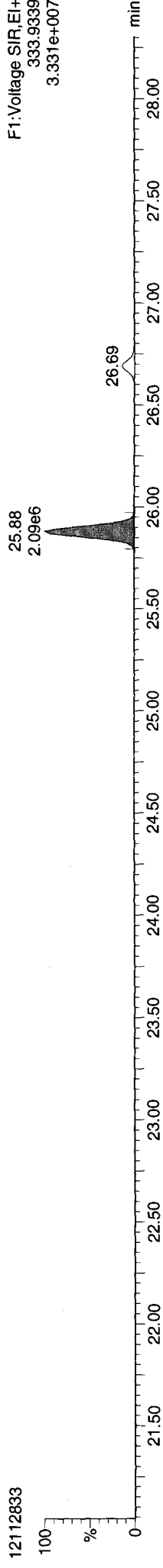
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%



13C-1234-TCDD

12112833

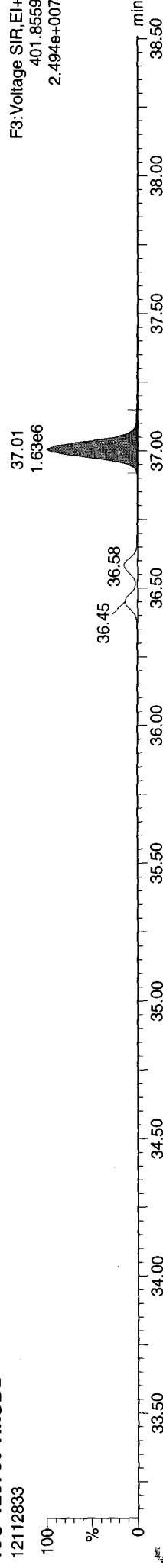
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13C-123789-HxCDD

12112833

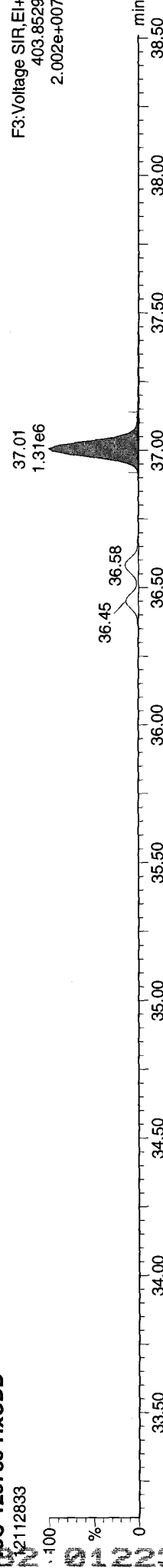
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13C-123789-HxCDD

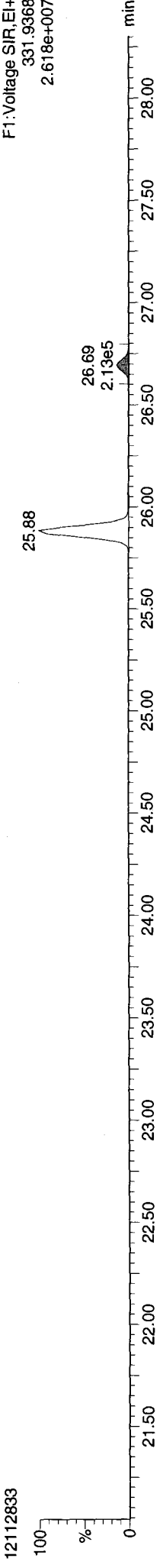
12112833

100
%

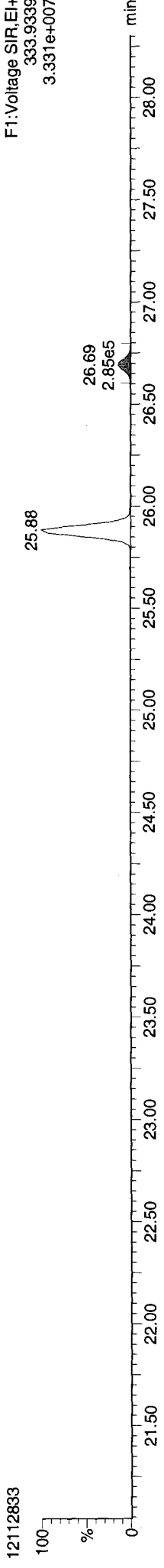


Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

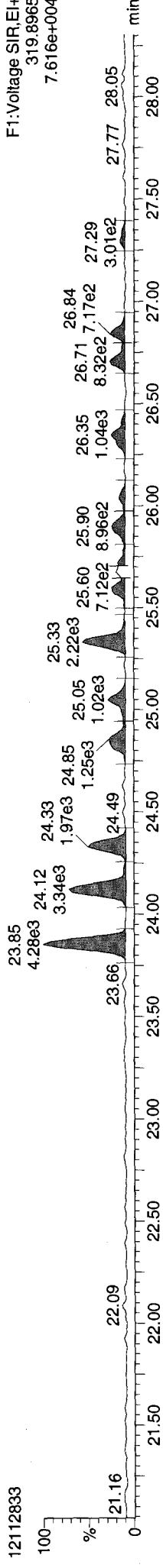
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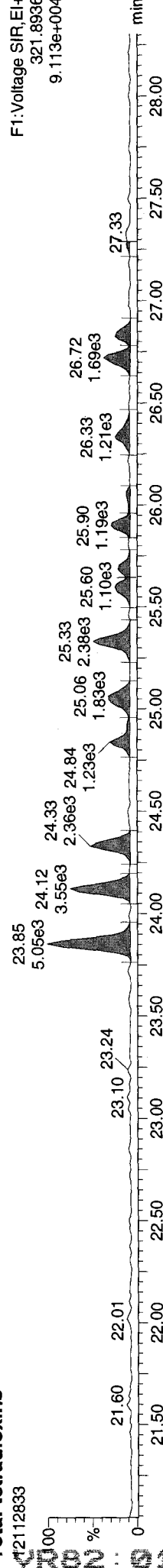
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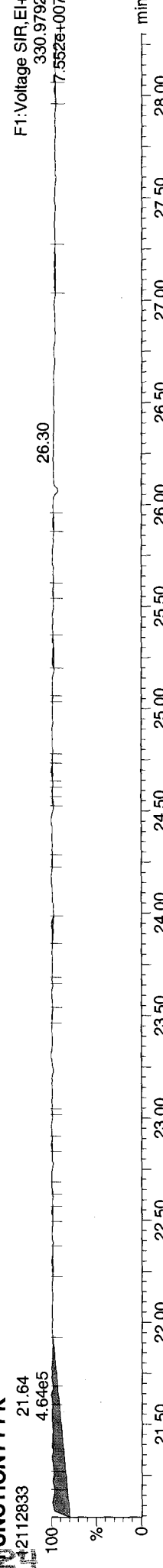
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

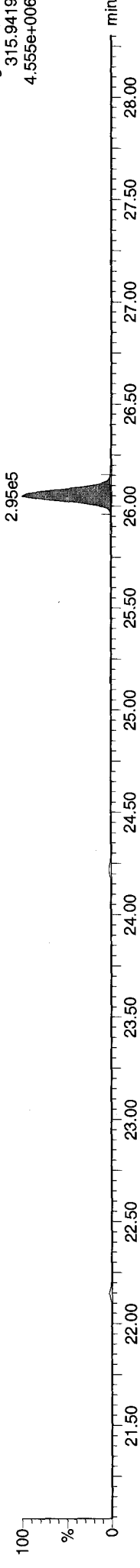
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

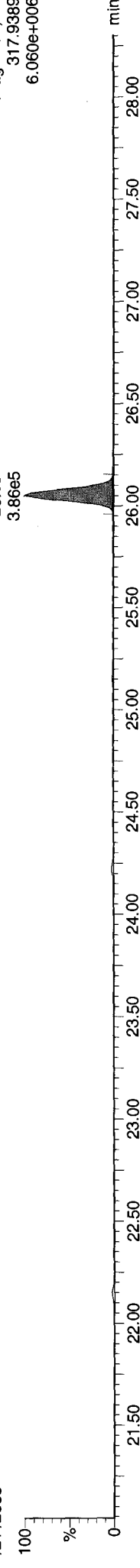
13C-2378-TCDF

12112833



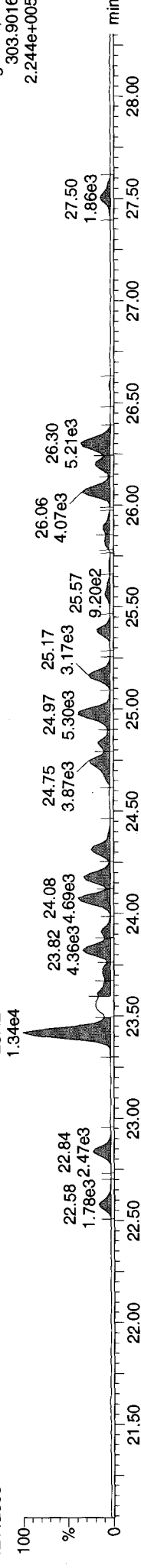
13C-2378-TCDF

12112833



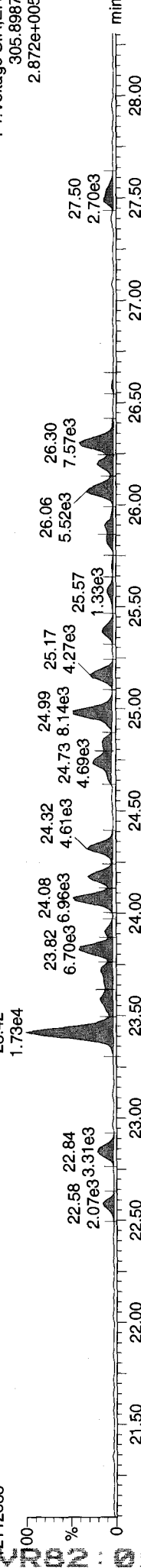
Total-tetrafurans

12112833



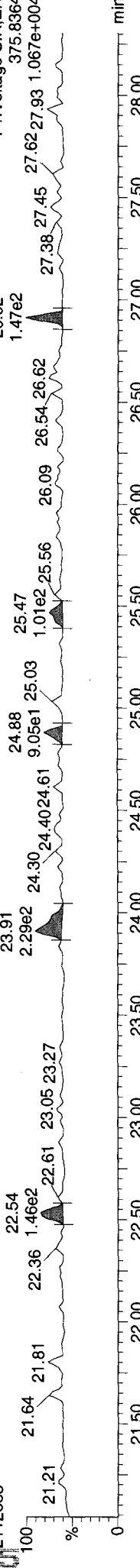
Total-tetrafurans

12112833



FUNCTION1 HXCDPE

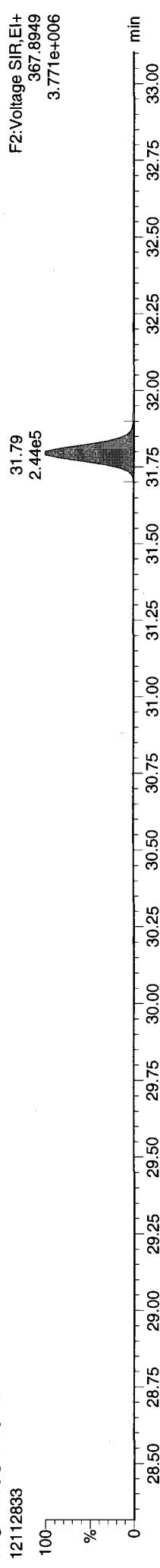
12112833



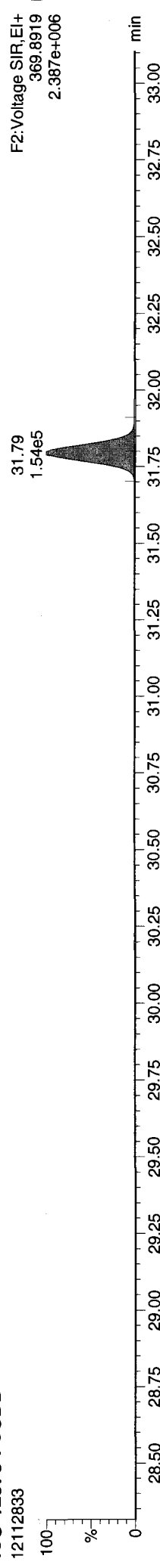
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Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

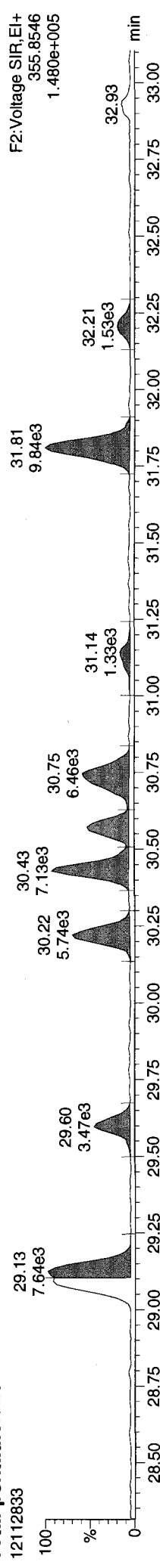
13C-12378-PeCDD



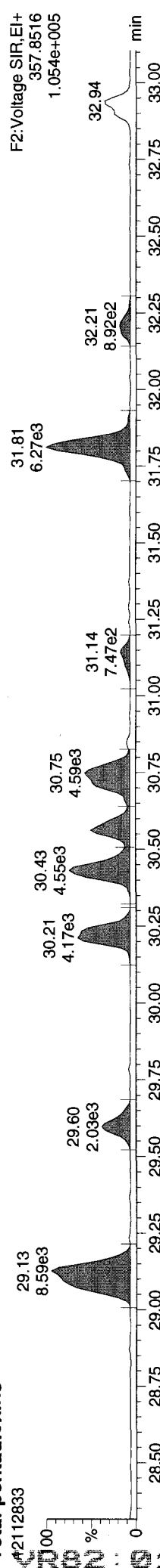
13C-12378-PeCDD



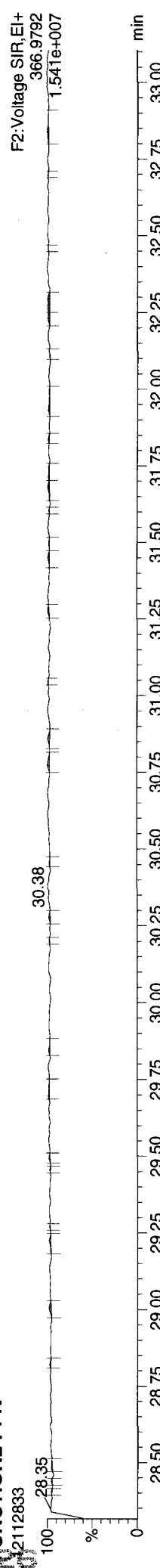
Total-pentadioxins



Total-pentadioxins



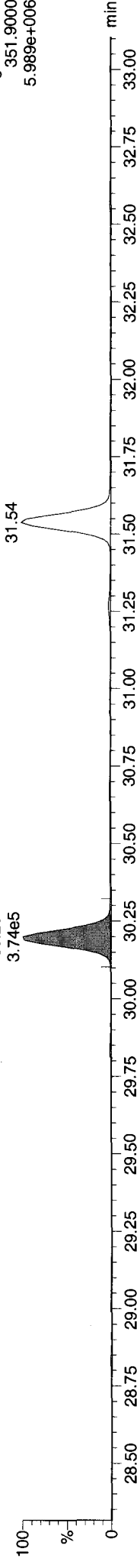
FUNCTION2 PFK



Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDF

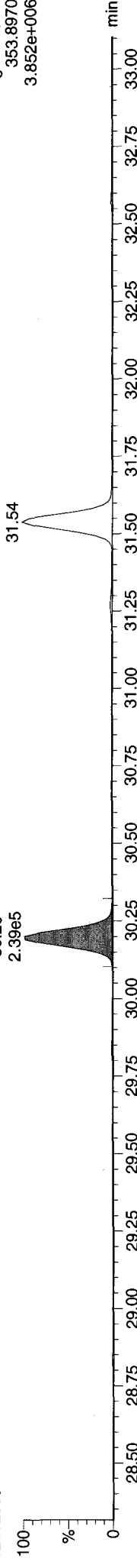
12112833



F2: Voltage SIR, EI+
351.9000
5.989e+006

13C-12378-PeCDF

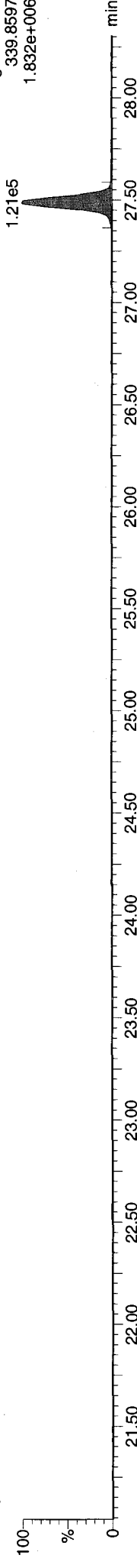
12112833



F2: Voltage SIR, EI+
353.8970
3.852e+006

Total-penta1

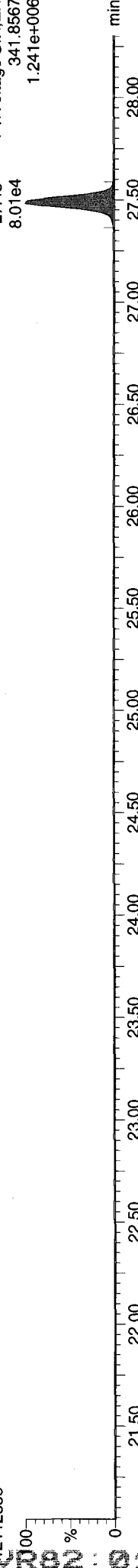
12112833



F1: Voltage SIR, EI+
339.8597
1.832e+006

Total-penta1

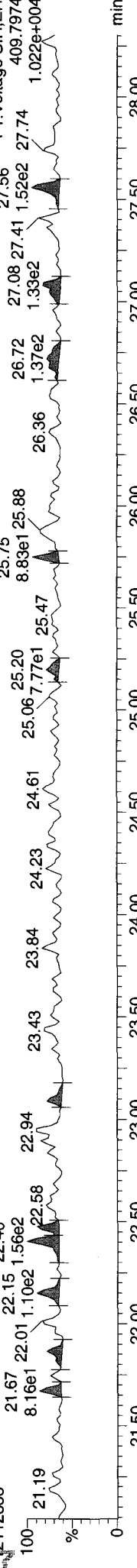
12112833



F1: Voltage SIR, EI+
341.8567
1.241e+006

FUNCTION1 HPCDPE

12112833

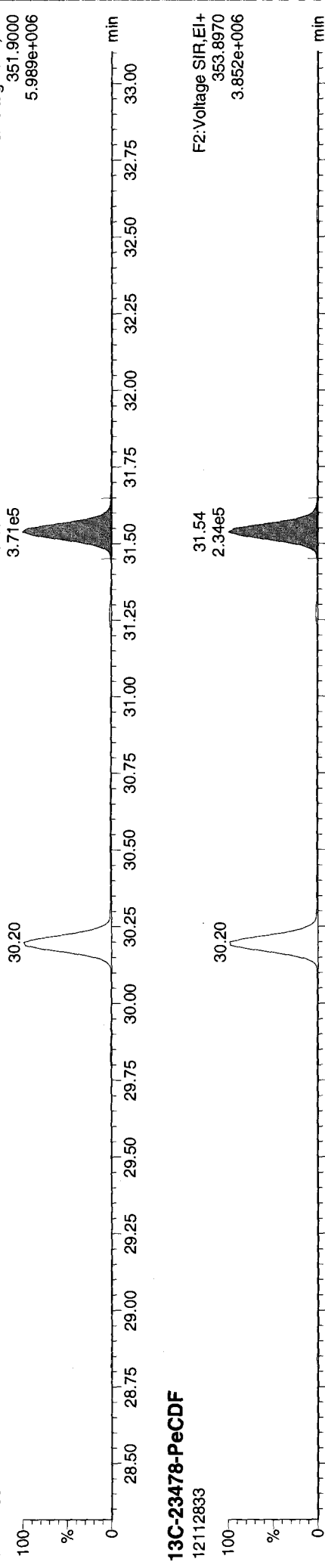


F1: Voltage SIR, EI+
409.7974
1.022e+004

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

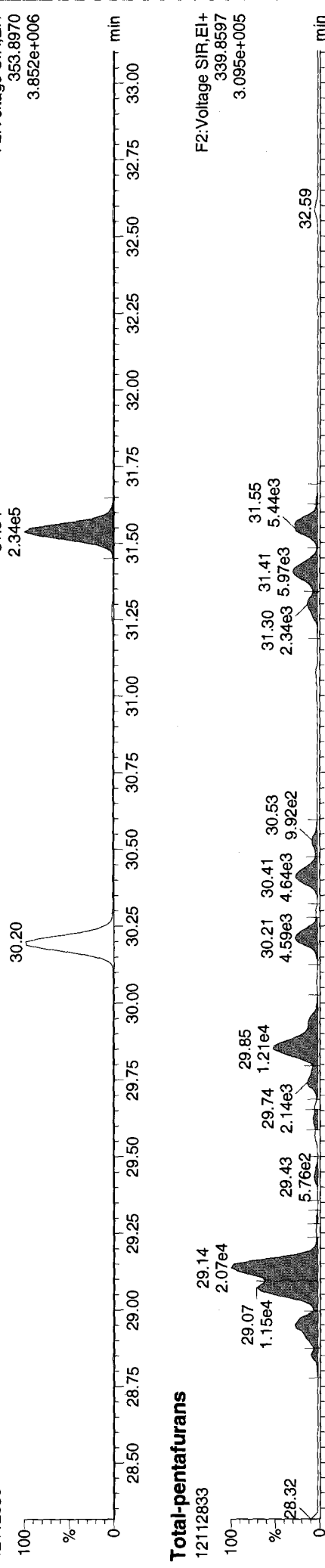
13C-23478-PeCDF

12112833



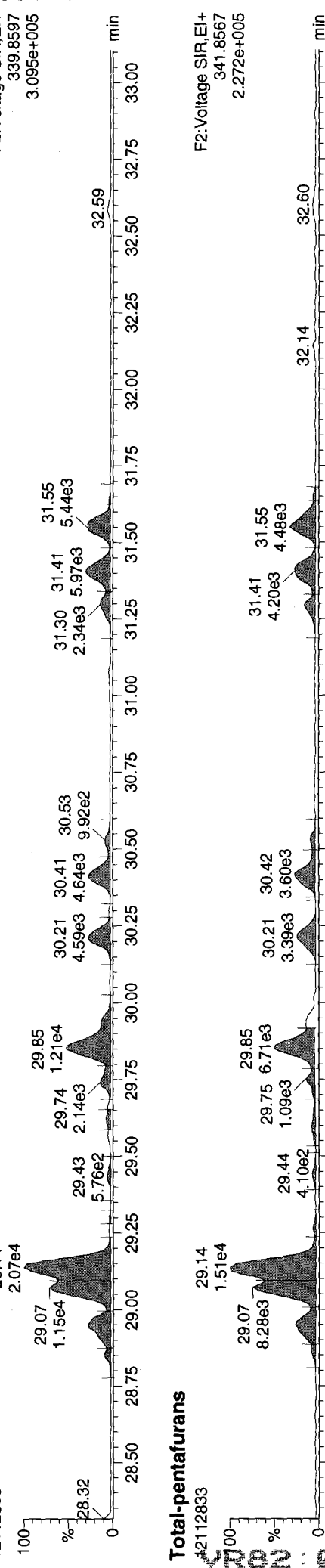
13C-23478-PeCDF

12112833



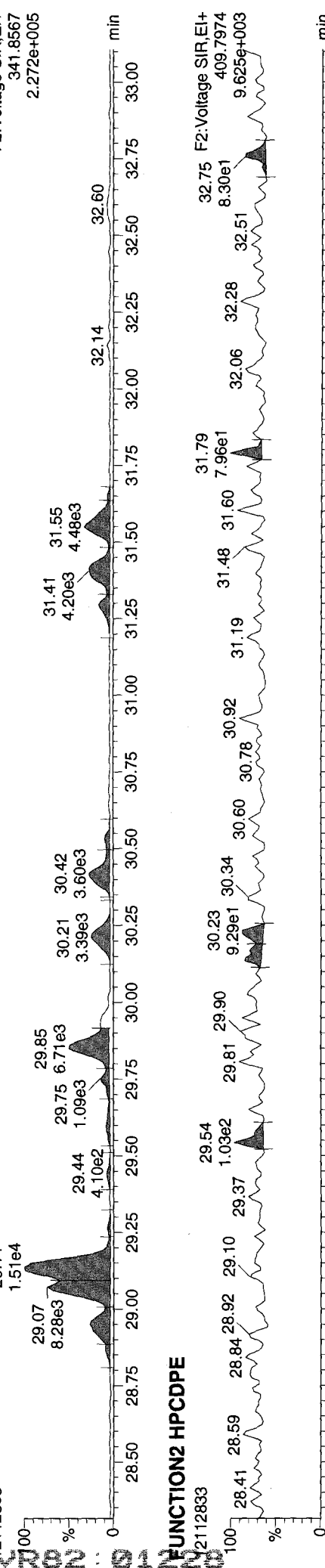
Total-pentafurans

12112833



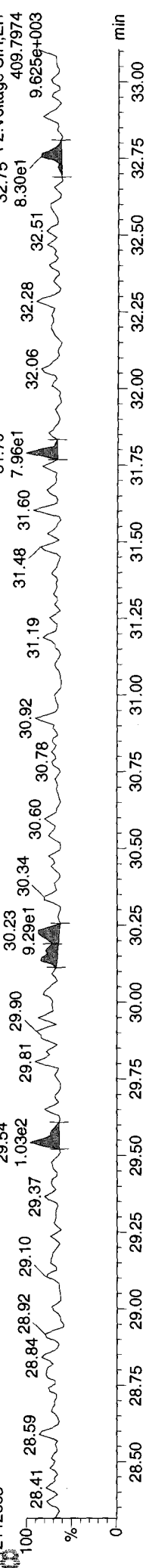
Total-pentafurans

12112833



FUNCTION2 HPCDFE

12112833



Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

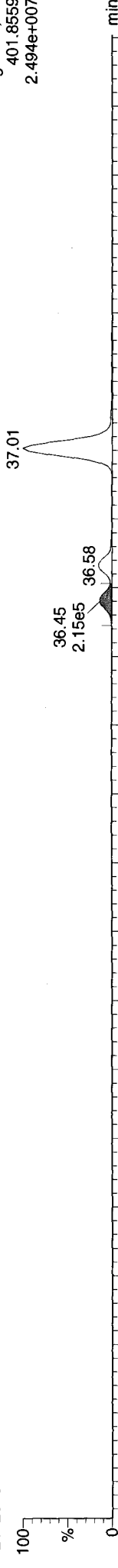
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

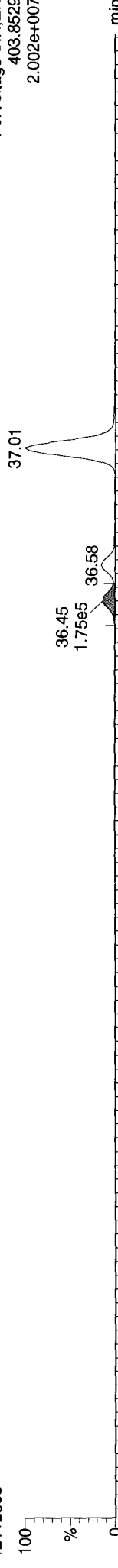
13C-123478-HxCDD

12112833



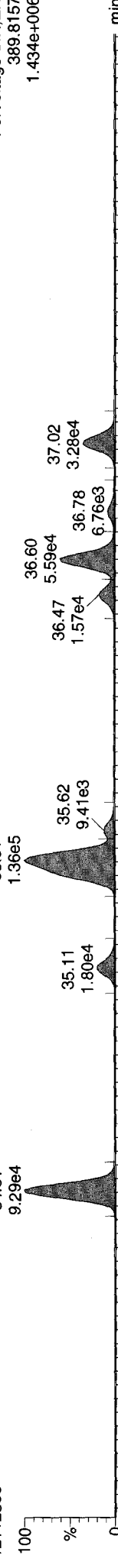
13C-123478-HxCDD

12112833



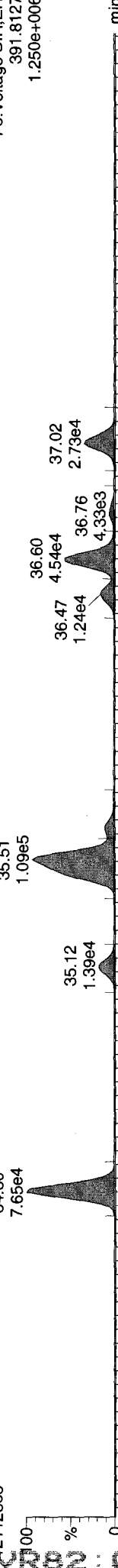
Total-hexadioxins

12112833



Total-hexadioxins

12112833



FUNCTION3 PFK

12112833

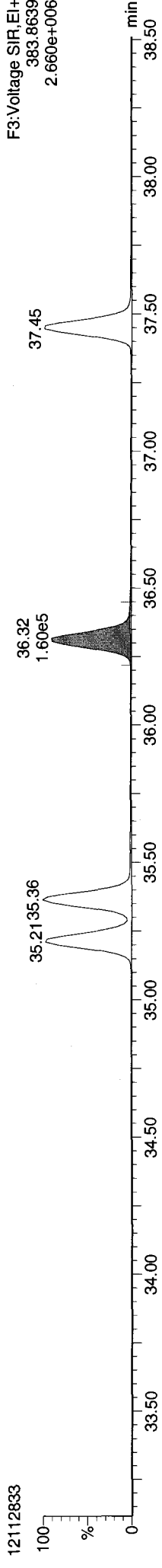


Quantify Sample Report MassLynx 4.1 SCN 714

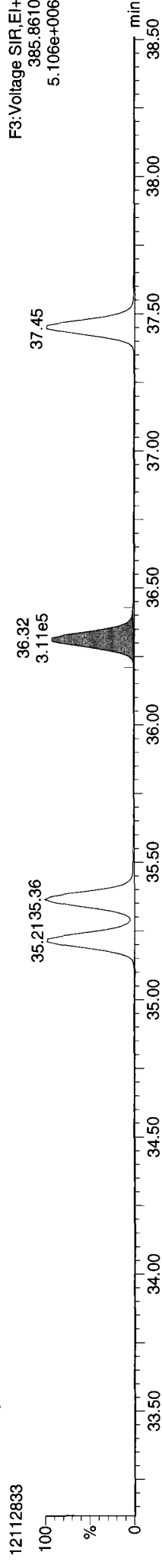
Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

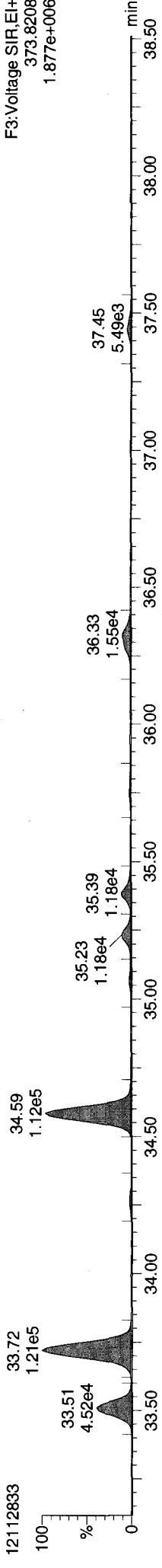
13C-234678-HxCDF



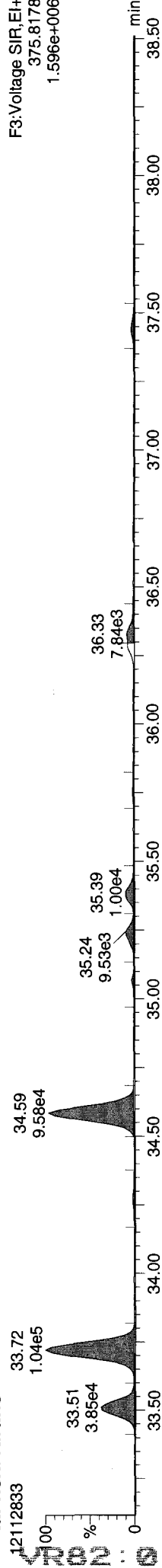
13C-234678-HxCDF



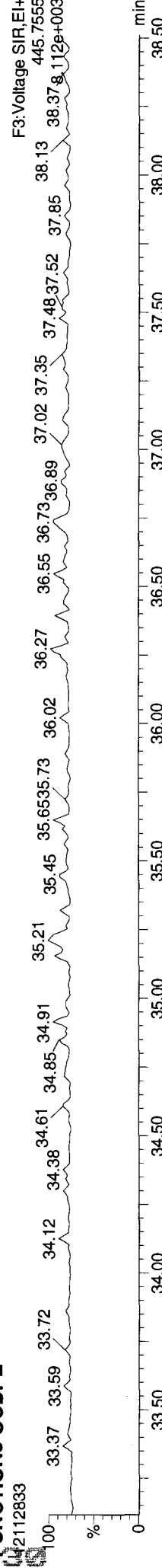
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

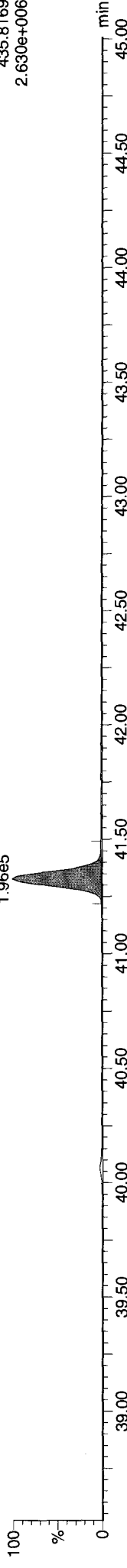
Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

12112833

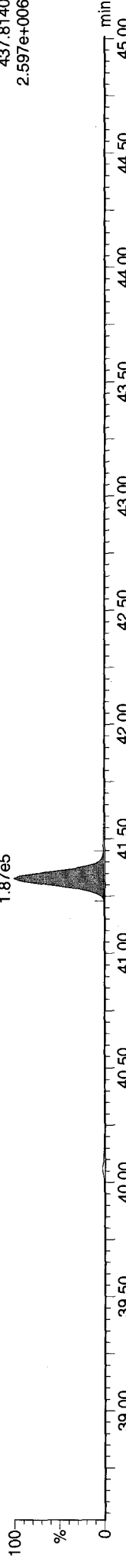
41.33
1.96e5



13C-1234678-HpCDD

12112833

41.33
1.87e5

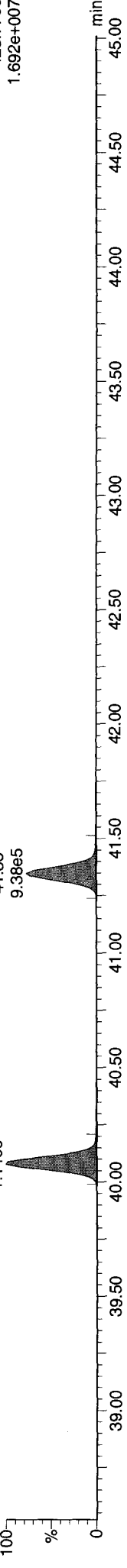


Total-heptadioxins

12112833

40.08
1.14e6

41.35
9.38e5

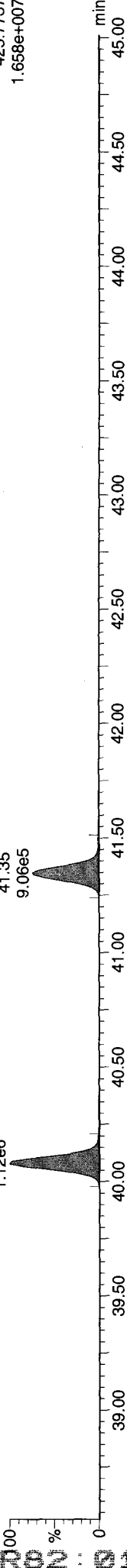


Total-heptadioxins

12112833

40.08
1.12e6

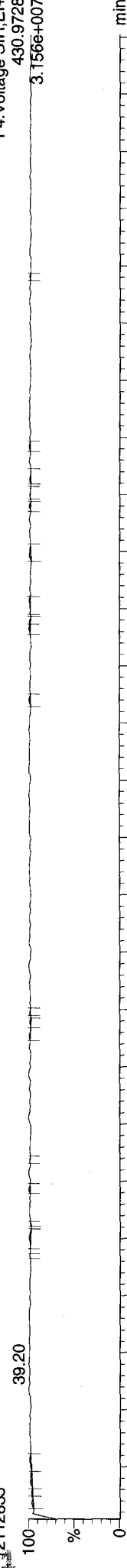
41.35
9.06e5



FUNCTION4 PFK

12112833

39.20



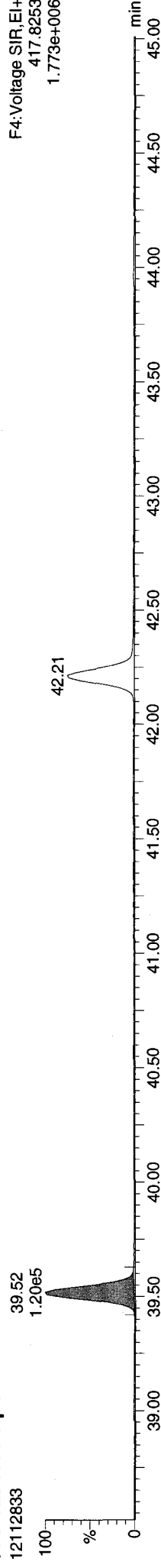
Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

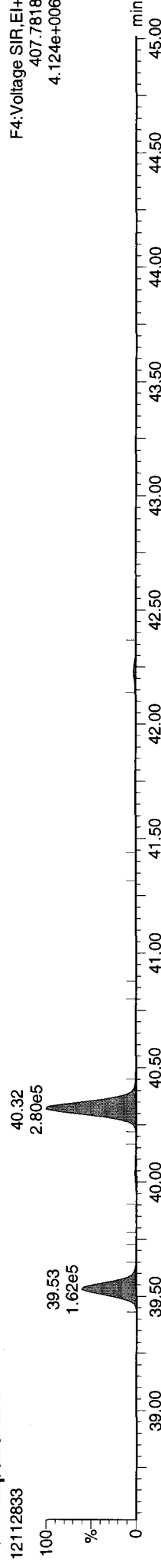
13C-1234678-HpCDF



13C-1234678-HpCDF



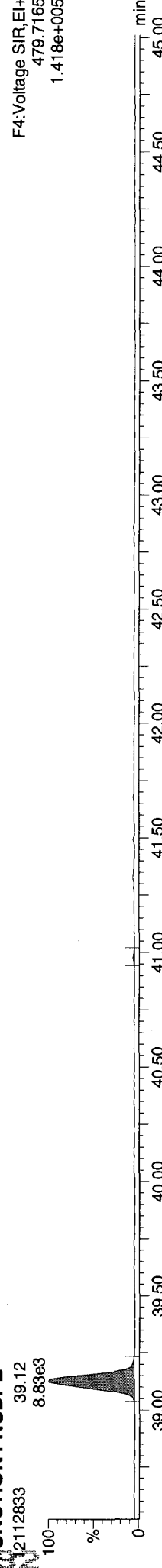
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qtd

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112833

100%

%

0

47.24
2.47e5

47.24

2.47e5

min
49.00

13C-OCDD

12112833

100%

%

0

47.24
2.73e5

47.24

2.73e5

min
49.00

OCDD

12112833

100%

%

0

47.26
4.59e6

47.26

4.59e6

min
49.00

OCDD

12112833

100%

%

0

47.26
5.15e6

47.26

5.15e6

min
49.00

FUNCTION5 PFK

12112833

45.21

1.80e4

47.23

47.23

1.906e+007

480.9696

480.9696

1.906e+007

min
49.00

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

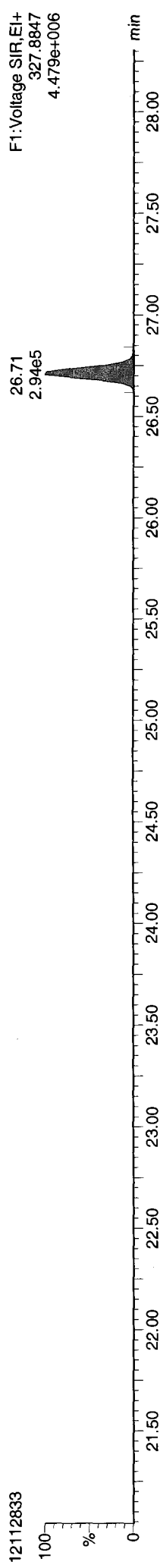
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 12:59:22 Pacific Standard Time

Name: 12112833, Date: 29-Nov-2012, Time: 14:35:41, ID: VR82A 5X, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

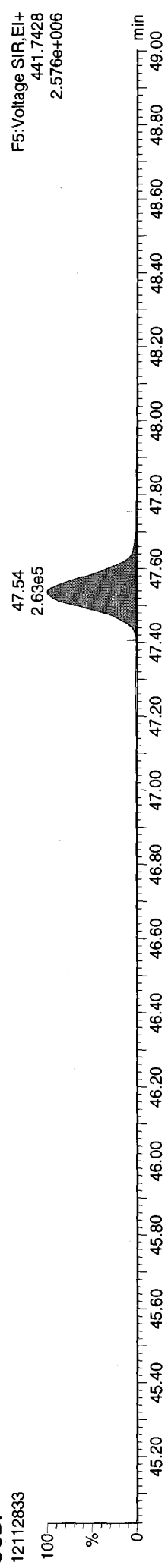
12112833



F1: Voltage SIR, EI+
327.8847
4.479e+006

OCDF

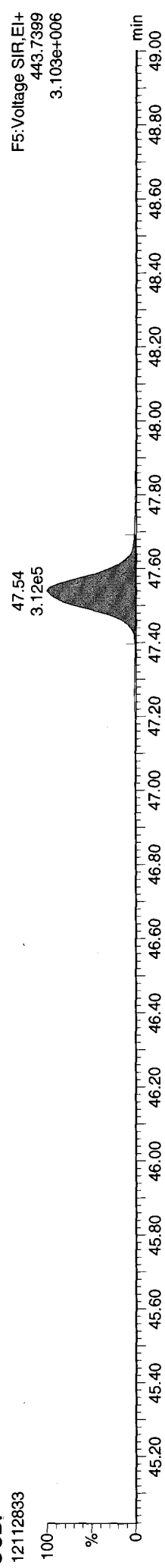
12112833



F5: Voltage SIR, EI+
441.7428
2.576e+006

OCDF

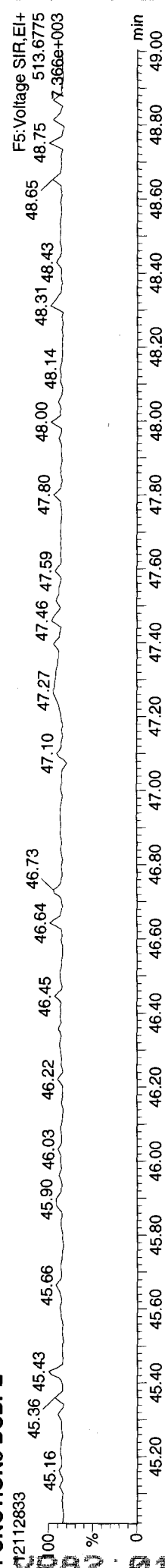
12112833



F5: Voltage SIR, EI+
443.7399
3.103e+006

FUNCTION5 DCDPE

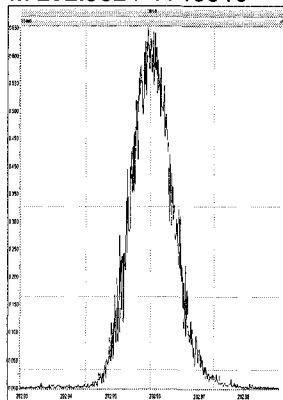
12112833



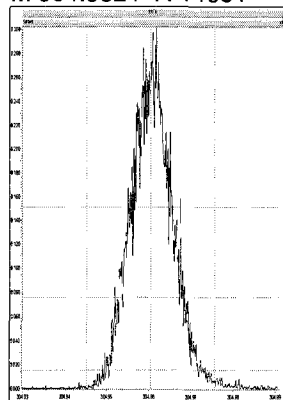
F5: Voltage SIR, EI+
513.6775
7.366e+003

12112833

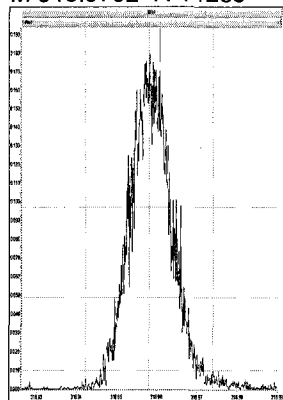
M 292.9824 R 13516



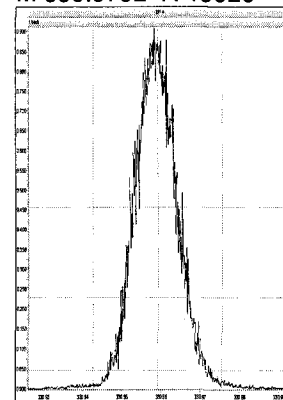
M 304.9824 R 14051



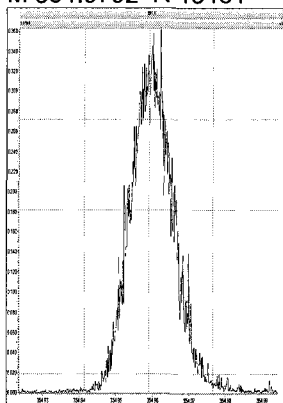
M 318.9792 R 14285



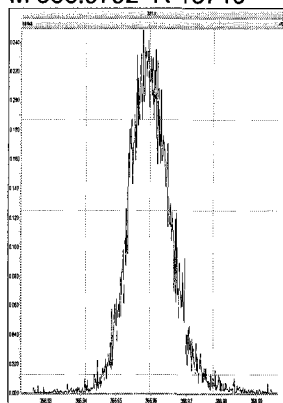
M 330.9792 R 13626



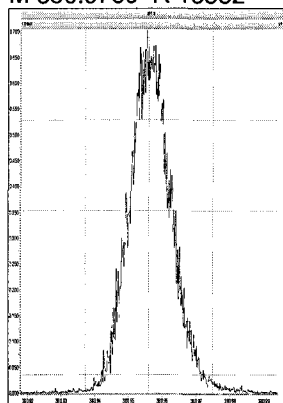
M 354.9792 R 13481



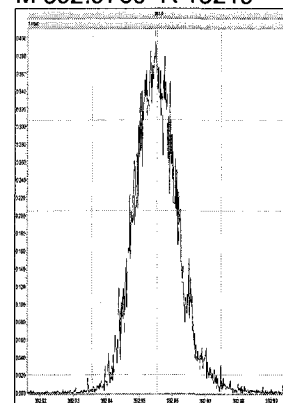
M 366.9792 R 13710



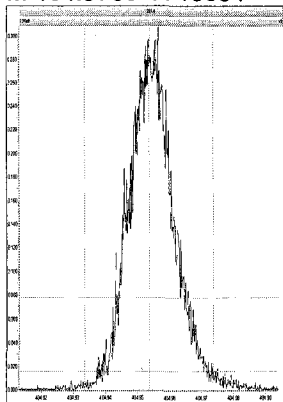
M 380.9760 R 13552



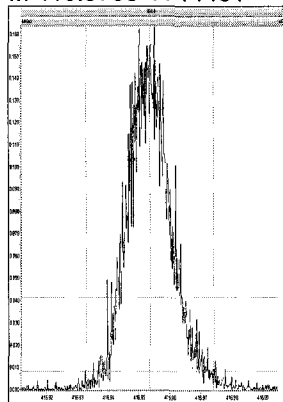
M 392.9760 R 13219



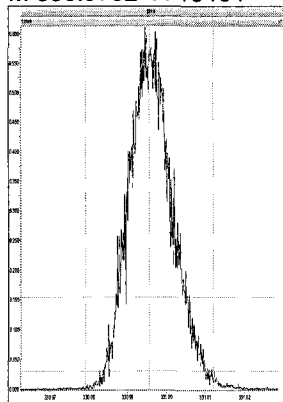
M 404.9760 R 13054



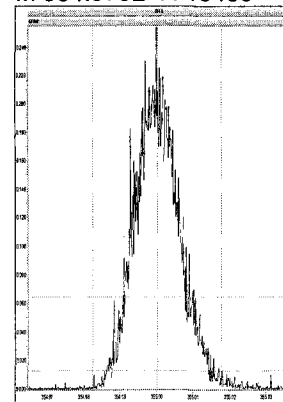
M 416.9760 R 14451



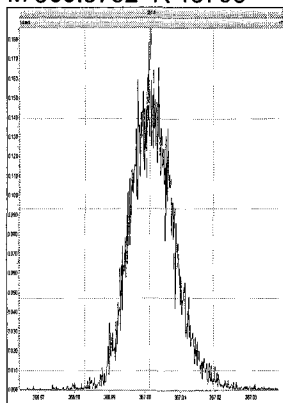
M 330.9792 R 13404



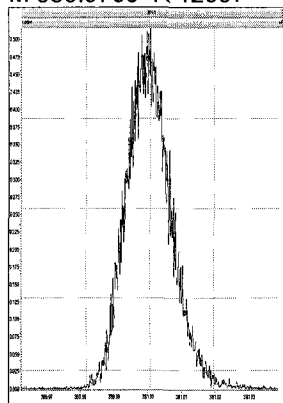
M 354.9792 R 13405



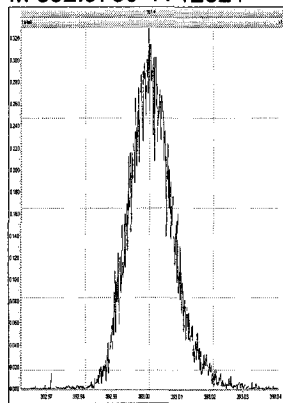
M 366.9792 R 13706



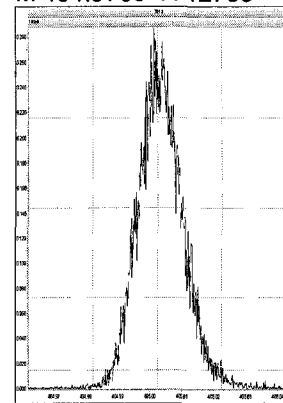
M 380.9760 R 12997



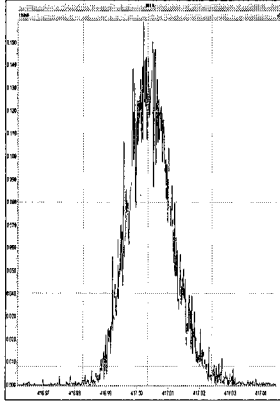
M 392.9760 R 12821



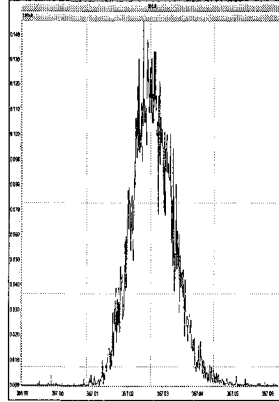
M 404.9760 R 12755



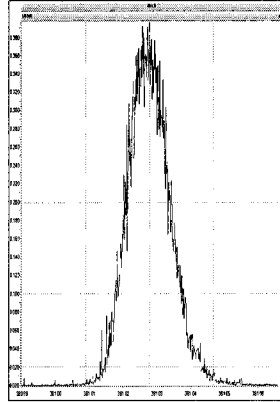
M 416.9760 R 13811



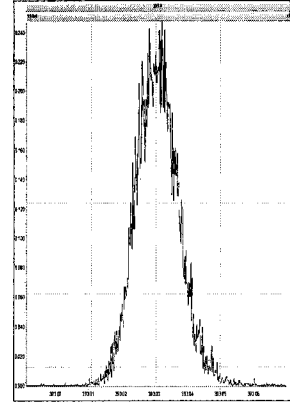
M 366.9792 R 14205



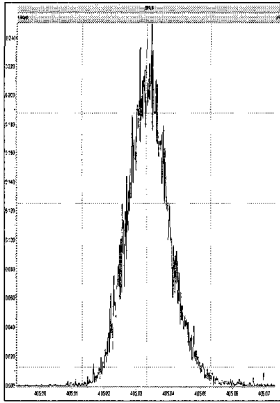
M 380.9760 R 13303



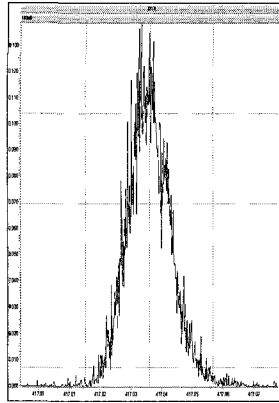
M 392.9760 R 13693



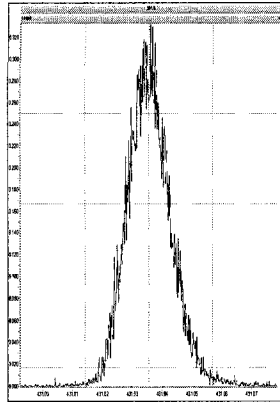
M 404.9760 R 13557



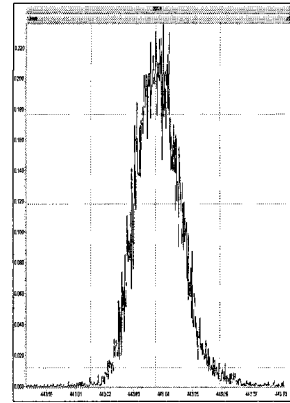
M 416.9760 R 14520



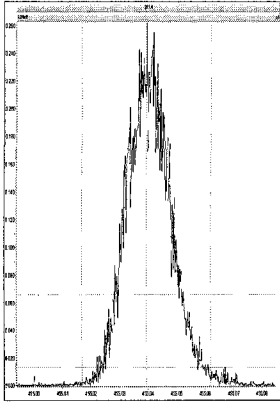
M 430.9728 R 13552



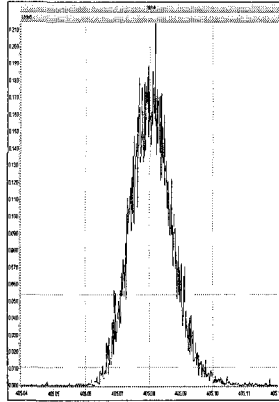
M 442.9728 R 13349



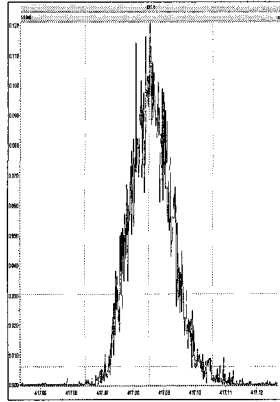
M 454.9728 R 12600



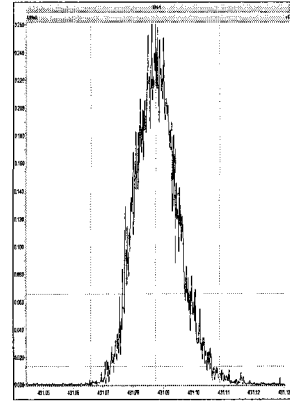
M 404.9760 R 13680



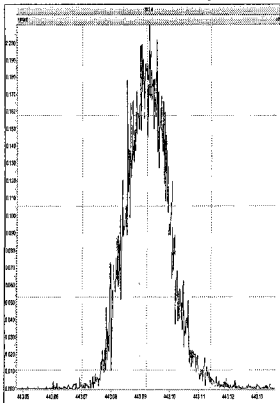
M 416.9760 R 14084



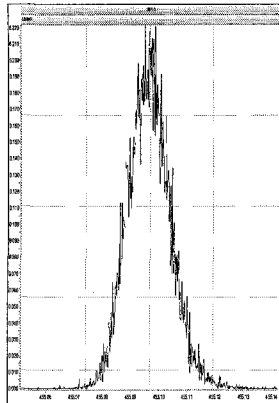
M 430.9728 R 13889



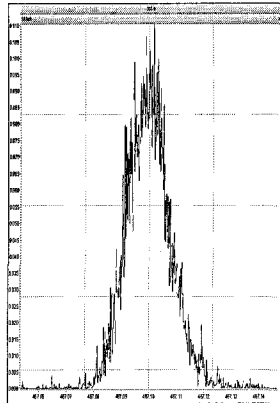
M 442.9728 R 14044



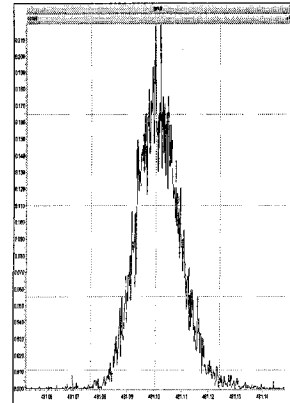
M 454.9728 R 14536



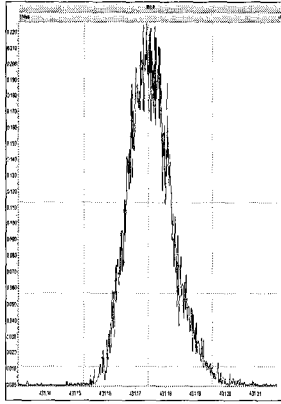
M 466.9728 R 13493



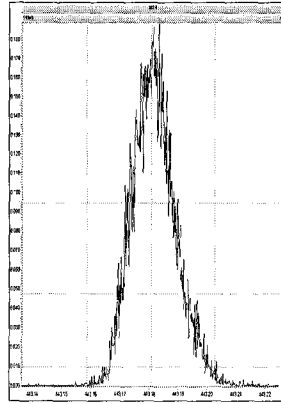
M 480.9696 R 13021



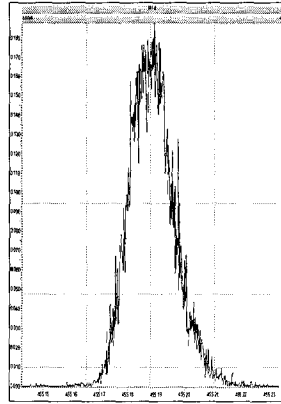
M 430.9728 R 13090



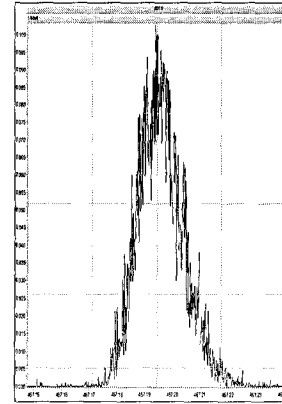
M 442.9728 R 13263



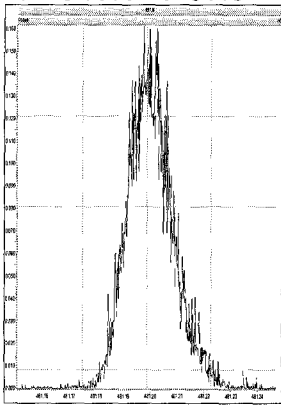
M 454.9728 R 12828



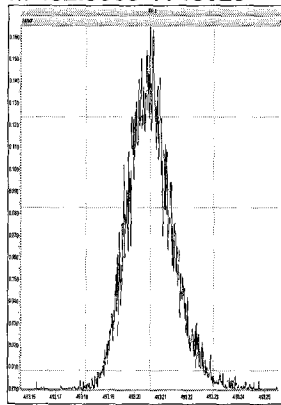
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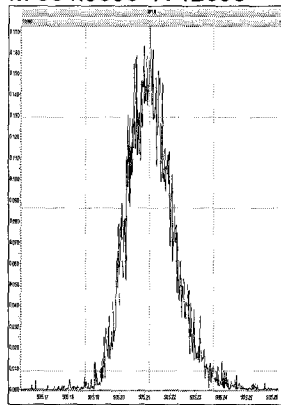
M 480.9696 R 13118



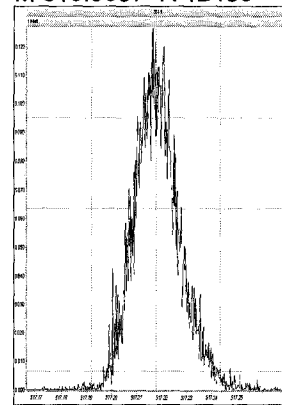
M 492.9696 R 13023



M 504.9696 R 12695



M 516.9697 R 12486



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin121123.mdb 05 Dec 2012 15:26:14

Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	IonArea	Ion2Area	RRF	Ratio	Pred R	SN	EMPC?	EMPC	pg
2378-TCDF	26.078	1.001	2.48e5	3.28e5	0.877	0.755	0.770	3219.4	NO	9.786	9.786
12378-PeCDF	30.212	1.000	1.32e6	8.90e5	0.896	1.480	1.550	4878.3	NO	49.889	49.889
23478-PeCDF	31.560	1.001	1.31e6	9.01e5	0.926	1.449	1.550	4817.1	NO	49.538	49.538
123478-HxCDF	35.232	1.001	1.09e6	9.29e5	1.068	1.178	1.240	5308.3	NO	50.157	50.157
234678-HxCDF	36.328	1.001	1.09e6	9.36e5	1.037	1.168	1.240	5361.4	NO	50.581	50.581
123678-HxCDF	35.385	1.001	1.15e6	9.63e5	1.035	1.198	1.240	5399.3	NO	50.901	50.901
123789-HxCDF	37.467	1.000	9.42e5	7.90e5	0.987	1.193	1.240	4477.3	NO	50.237	50.237
1234678-HpCDF	39.528	1.000	9.63e5	9.77e5	1.232	0.986	1.050	5332.0	NO	49.386	49.386
1234789-HpCDF	42.224	1.000	7.45e5	7.65e5	1.215	0.974	1.050	3535.8	NO	49.866	49.866
OCDF	47.530	1.006	1.13e6	1.33e6	1.138	0.852	0.890	7015.3	NO	98.821	98.821
2378-TCDD	26.721	1.001	1.89e5	2.40e5	1.049	0.788	0.770	1526.7	NO	9.676	9.676
12378-PeCDD	31.812	1.001	9.38e5	6.01e5	0.998	1.561	1.550	3754.1	NO	49.508	49.508
123478-HxCDD	36.459	1.000	8.26e5	6.75e5	0.971	1.223	1.240	4524.7	NO	49.563	49.563
123678-HxCDD	36.591	1.000	8.23e5	6.68e5	0.918	1.233	1.240	4454.7	NO	50.188	50.188
123789-HxCDD	37.018	1.012	8.08e5	6.64e5	0.932	1.217	1.240	4368.7	NO	49.699	49.699
1234678-HpCDD	41.347	1.000	6.71e5	6.47e5	1.017	1.037	1.050	3583.6	NO	49.333	49.333
OCDD	47.261	1.001	1.03e6	1.15e6	1.008	0.898	0.890	5333.8	NO	98.857	98.857
13C-2378-TCDF	26.048	1.006	2.93e6	3.78e6	1.473	0.774	0.770	12329.5	NO	105.025	105.025
13C-12378-PeCDF	30.201	1.167	3.01e6	1.92e6	1.148	1.567	1.550	7599.1	NO	99.178	99.178
13C-23478-PeCDF	31.538	1.218	2.93e6	1.88e6	1.113	1.560	1.550	7389.6	NO	99.675	99.675
13C-123478-HxCDF	35.210	0.952	1.29e6	2.49e6	1.209	0.518	0.510	8497.8	NO	98.502	98.502
13C-123678-HxCDF	35.363	0.956	1.38e6	2.64e6	1.269	0.521	0.510	9185.4	NO	99.966	99.966
13C-234678-HxCDF	36.306	0.981	1.33e6	2.54e6	1.236	0.523	0.510	8875.4	NO	98.795	98.795
13C-123789-HxCDF	37.457	1.012	1.20e6	2.30e6	1.107	0.521	0.510	7757.7	NO	99.622	99.622
13C-1234678-HpCDF	39.517	1.068	9.91e5	2.20e6	1.051	0.451	0.440	5807.4	NO	95.774	95.774
13C-1234789-HpCDF	42.214	1.141	7.74e5	1.72e6	0.815	0.451	0.440	4003.3	NO	96.548	96.548
13C-1234-TCDD	25.884	0.000	1.91e6	2.43e6	1.000	0.786	0.770	8777.9	NO	100.000	100.000
13C-2378-TCDD	26.691	1.031	1.85e6	2.38e6	0.946	0.776	0.770	8451.3	NO	103.215	103.215
13C-12378-PeCDD	31.790	1.228	1.91e6	1.21e6	0.721	1.582	1.550	16552.3	NO	99.582	99.582
13C-123478-HxCDD	36.448	0.985	1.74e6	1.38e6	0.991	1.257	1.240	8183.7	NO	99.322	99.322
13C-123678-HxCDD	36.580	0.989	1.80e6	1.43e6	1.025	1.258	1.240	8139.4	NO	99.638	99.638
13C-1234678-HpCDD	41.326	1.117	1.35e6	1.28e6	0.866	1.059	1.050	6095.0	NO	95.699	95.699
13C-OCDD	47.234	1.277	2.06e6	2.31e6	0.769	0.894	0.890	6433.8	NO	179.339	179.339

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

RT	RET	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N	EMPC?	EMPC	pg
34	36.996	1.75e6	1.42e6	1.000	1.235	1.240	7800.9	NO		100.000
35		7.59e5		0.877					30.493	30.493
36		1.88e6							69.009	69.009
37		3.95e6		0.911					149.797	149.726
38		5.54e6		1.032					261.390	261.378
39		1.71e6		1.223					99.431	99.323
40		1.50e7		1.041					708.962	708.771
41		1.05e6		1.049					54.435	54.297
42		3.24e6		0.998					171.339	171.305
43		3.50e6		0.940					213.535	212.471
44		1.45e6		1.017					106.685	106.685
45		1.50e7		0.985					708.962	708.771
46		2.99e7							1417.924	1417.541
47	26.706	4.70e5		1.044			3143.0			10.392
48		9.54e5								
49		2.55e5								0.000
50		3.25e5								0.000
51		4.51e5								
52		3.40e5								
53		5.76e2								0.000
54		1.34e3								0.000
55		2.21e3								0.000
56		0.00e0								0.000
57		7.88e1								0.000
58		0.00e0								0.000

12112835

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

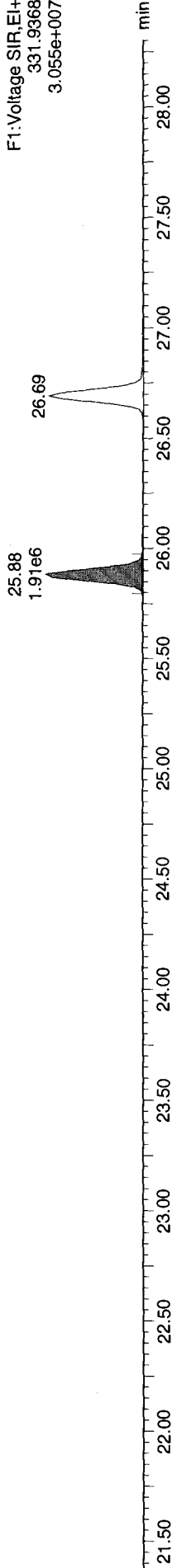
Method: P:\DIOXIN8290.PROMethDB\Dioxin\121123.mdb 05 Dec 2012 15:26:14
Calibration: P:\DIOXIN8290.PRO\CurveDB\121123\CAL.cdb 26 Nov 2012 09:23:13

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

12112835

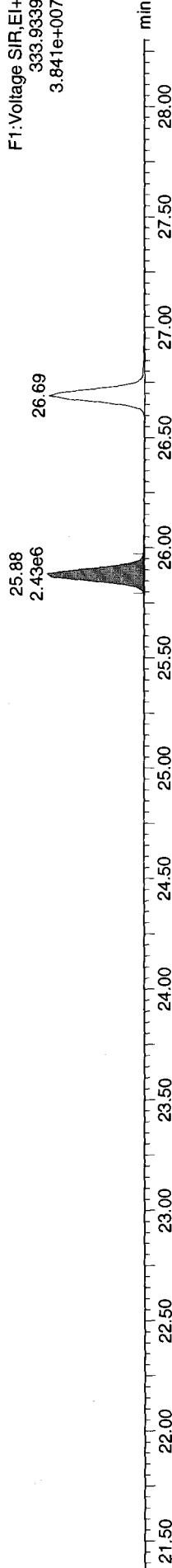
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13C-1234-TCDD

12112835

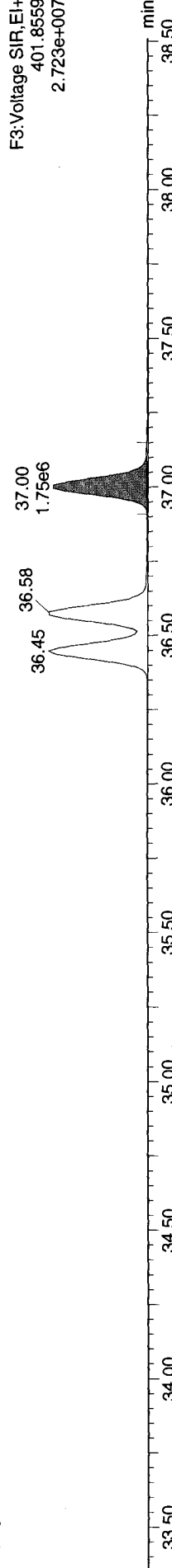
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13C-123789-HxCDD

12112835

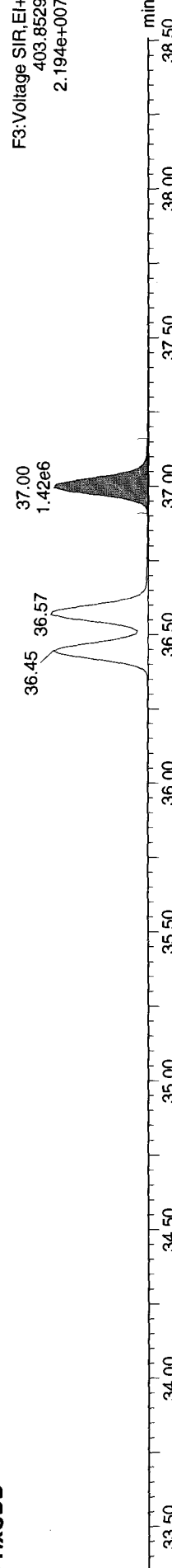
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13C-123789-HxCDD

12112835

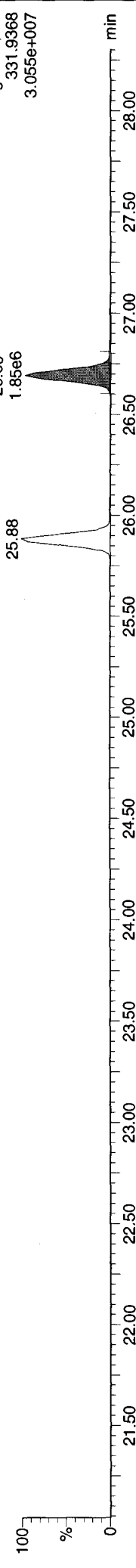
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Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

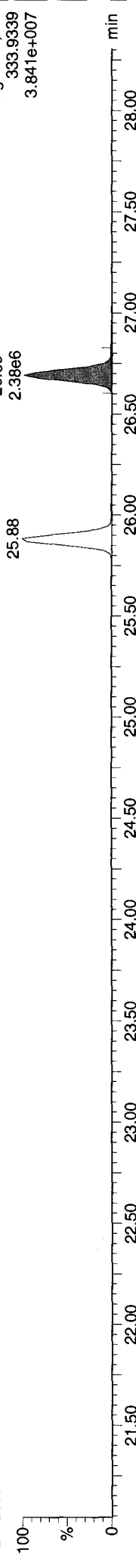
13C-2378-TCDD

12112835



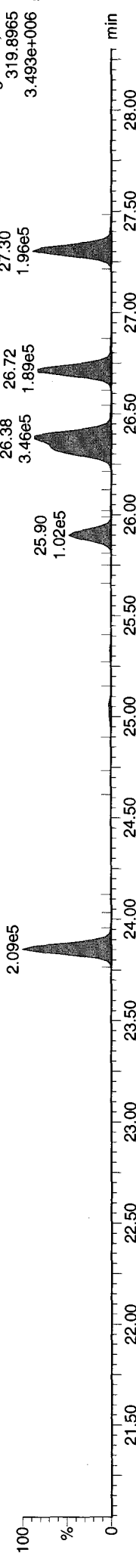
13C-2378-TCDD

12112835



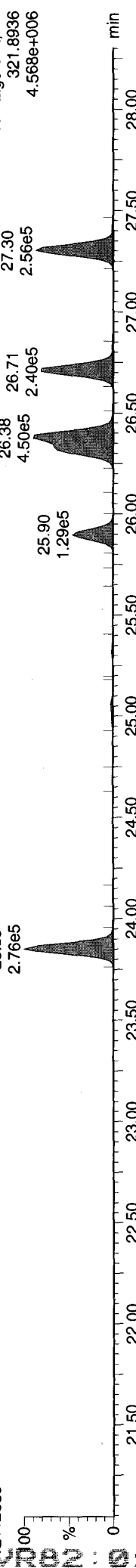
Total-tetradoxins

12112835



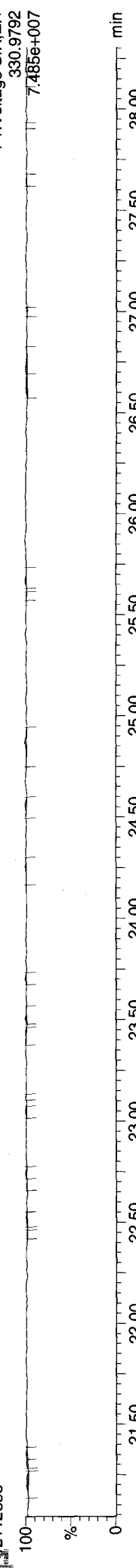
Total-tetradoxins

12112835



FUNCTION1 PFK

12112835



Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

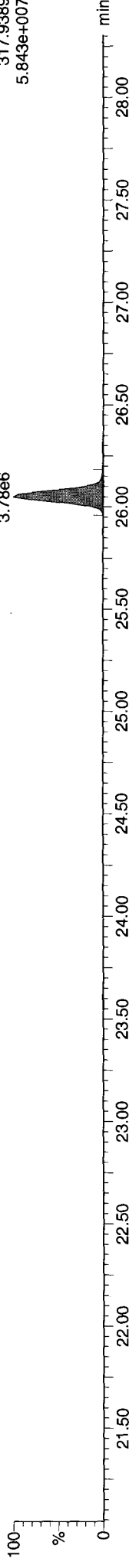
12112835



F1: Voltage SIR, EI+
315.9419
4.479e+007

13C-2378-TCDF

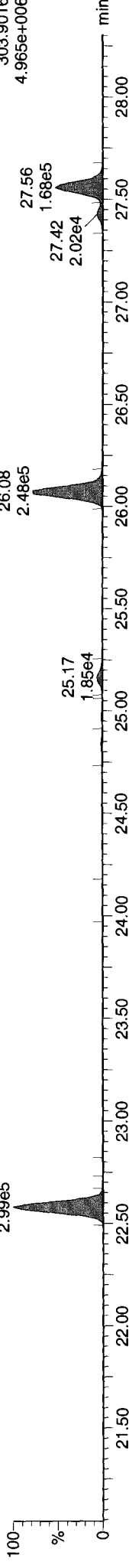
12112835



F1: Voltage SIR, EI+
317.9389
5.843e+007

Total-tetrafurans

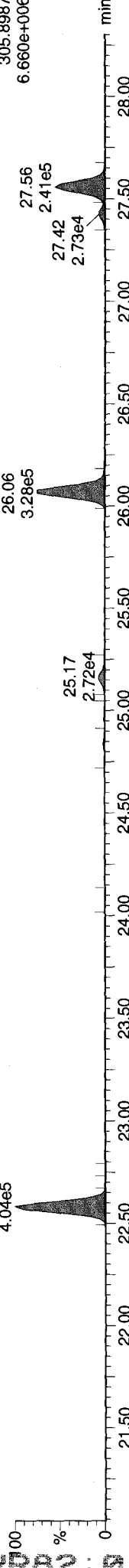
12112835



F1: Voltage SIR, EI+
303.9016
4.965e+006

Total-tetrafurans

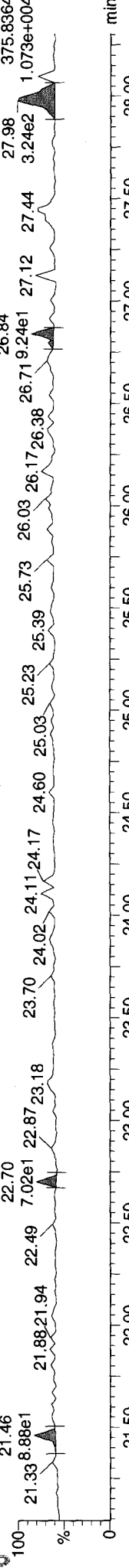
12112835



F1: Voltage SIR, EI+
305.8987
6.660e+006

FUNCTION1 HXCDFE

12112835



F1: Voltage SIR, EI+
375.8364
1.073e+004

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

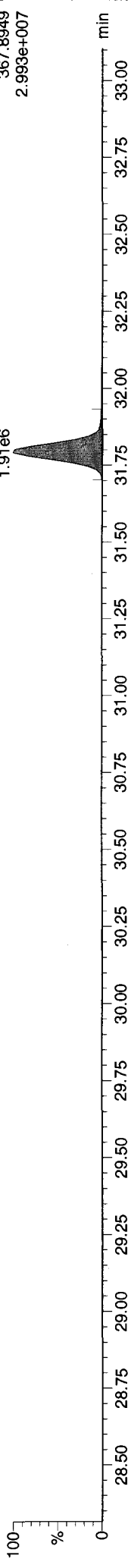
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Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

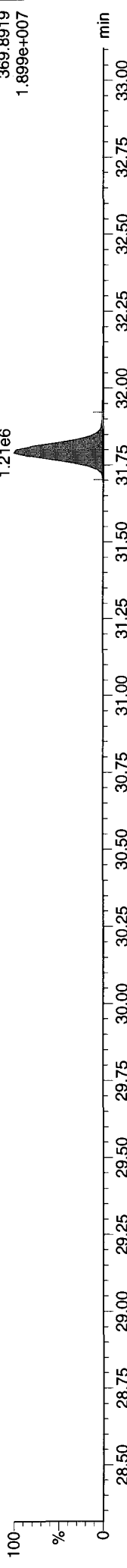
13C-12378-PeCDD

12112835



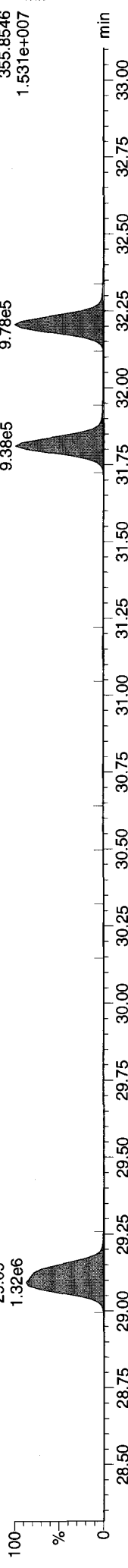
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12112835



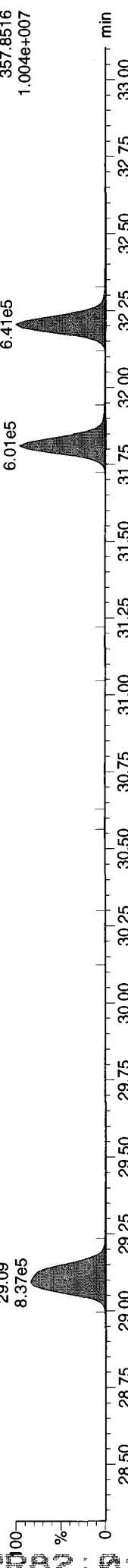
Total-pentadioxins

12112835



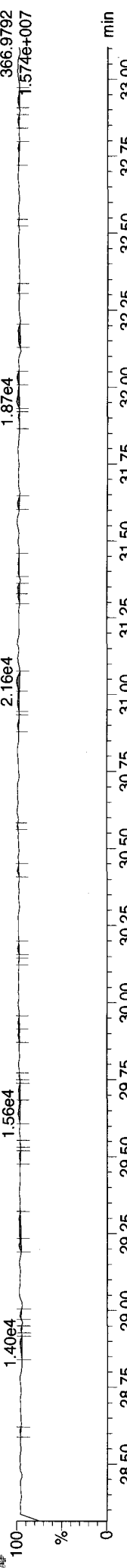
Total-pentadioxins

12112835



FUNCTION2 PFK

12112835



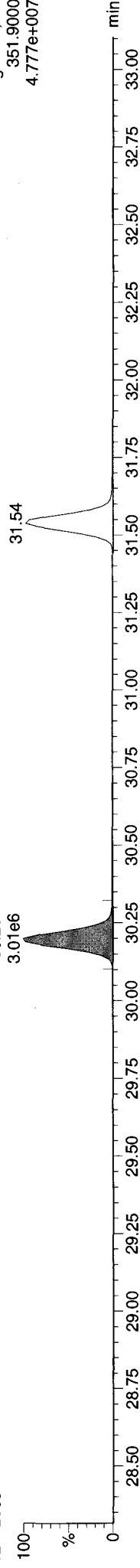
Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

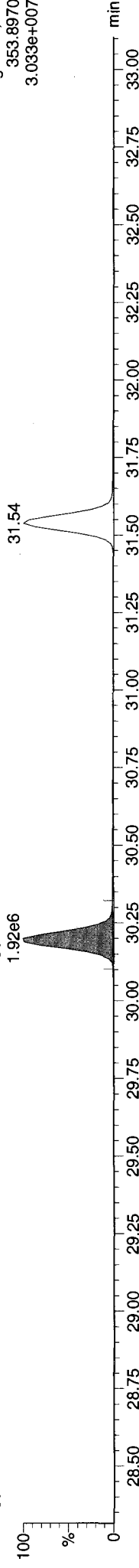
13C-12378-PeCDF

12112835



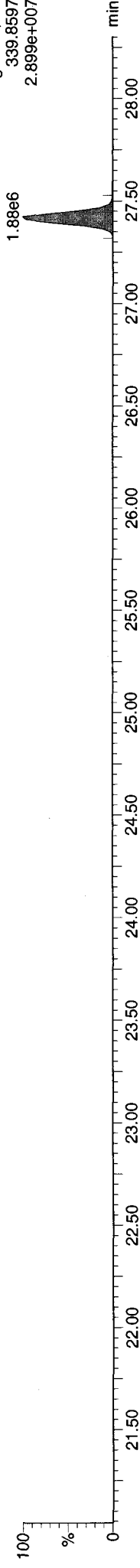
13C-12378-PeCDF

12112835



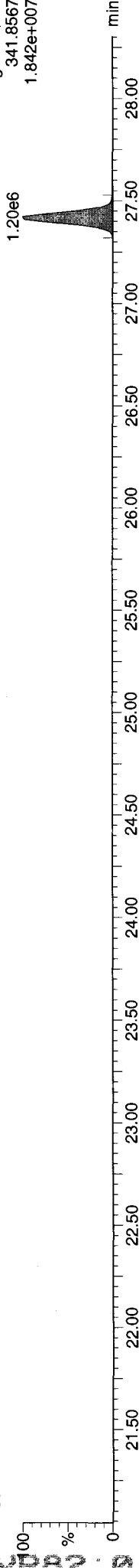
Total-penta1

12112835



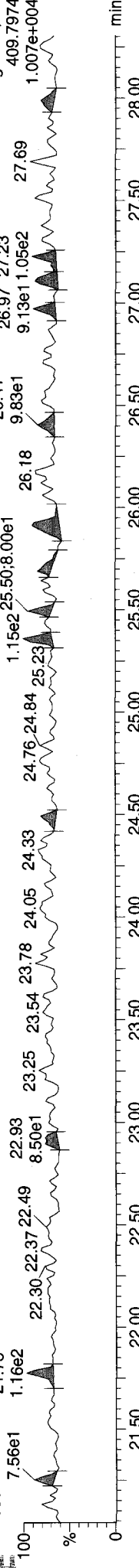
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12112835



FUNCTION1 HPCDPE

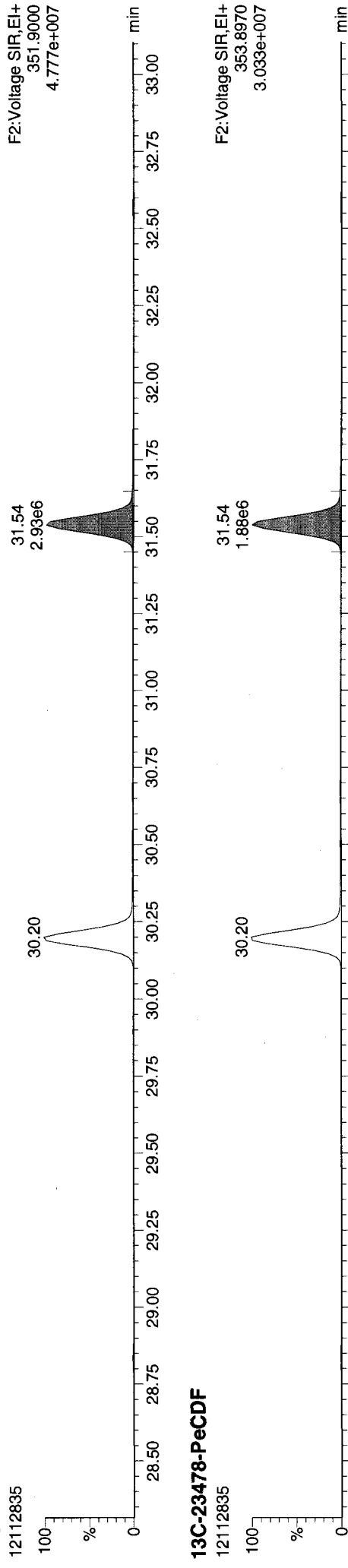
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Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF

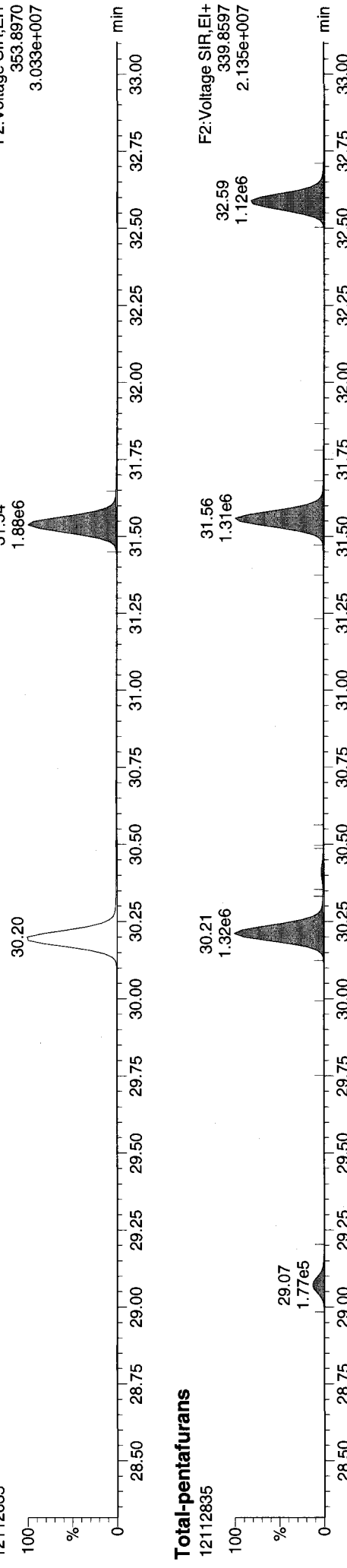
12112835



F2: Voltage SIR, EI+
351.9000
4.777e+007

13C-23478-PeCDF

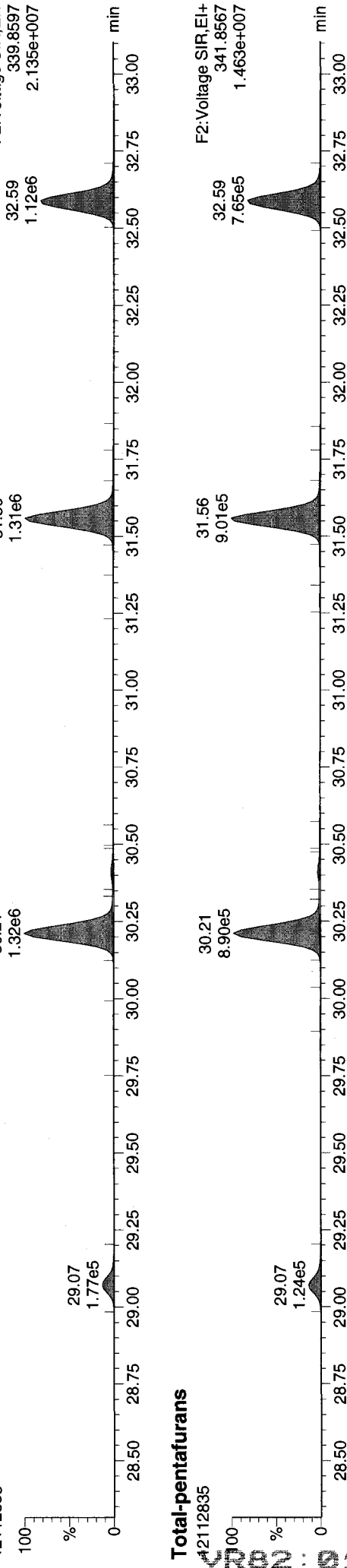
12112835



F2: Voltage SIR, EI+
353.8970
3.033e+007

Total-pentafurans

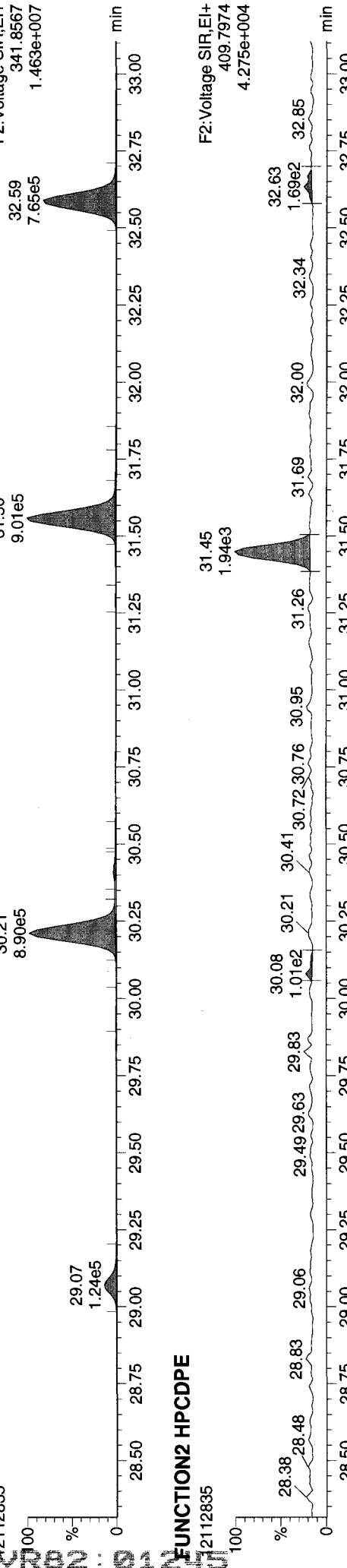
12112835



F2: Voltage SIR, EI+
339.8597
2.135e+007

Total-pentafurans

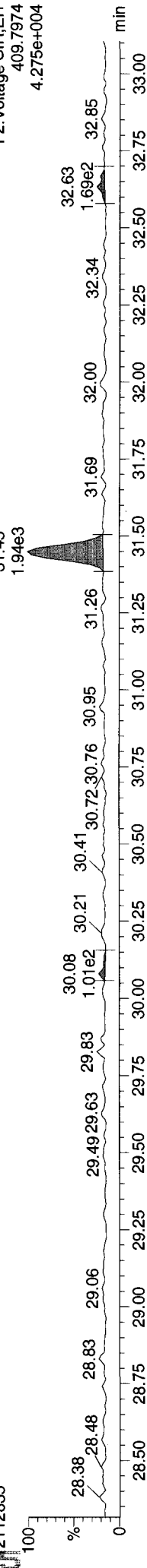
12112835



F2: Voltage SIR, EI+
341.8567
1.463e+007

FUNCTION2 HPCDFE

12112835



F2: Voltage SIR, EI+
409.7974
4.275e+004

Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

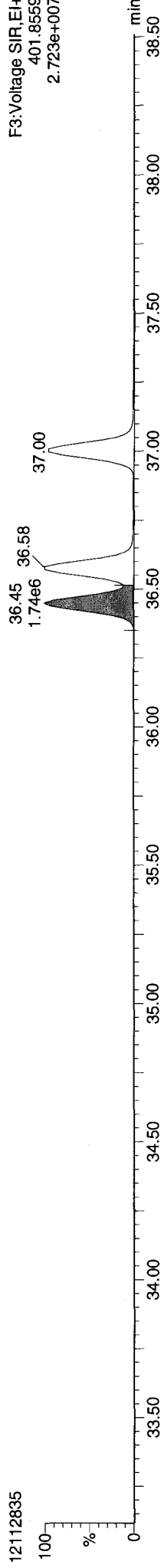
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

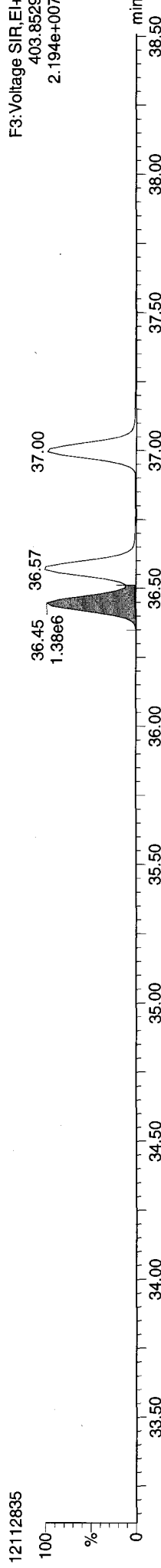
13C-123478-HxCDD

12112835



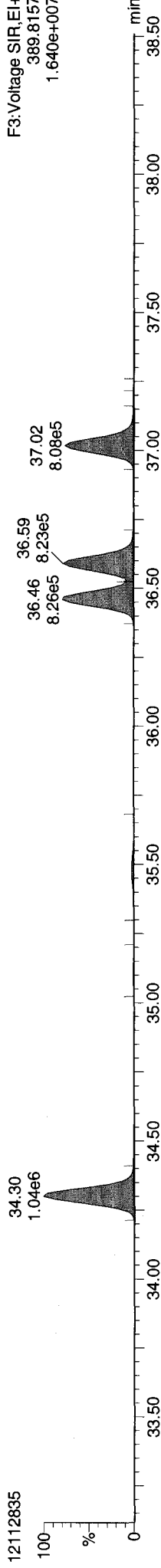
13C-123478-HxCDD

12112835



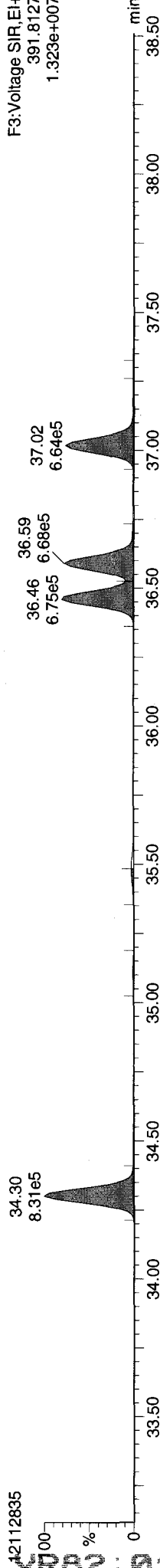
Total-hexadioxins

12112835



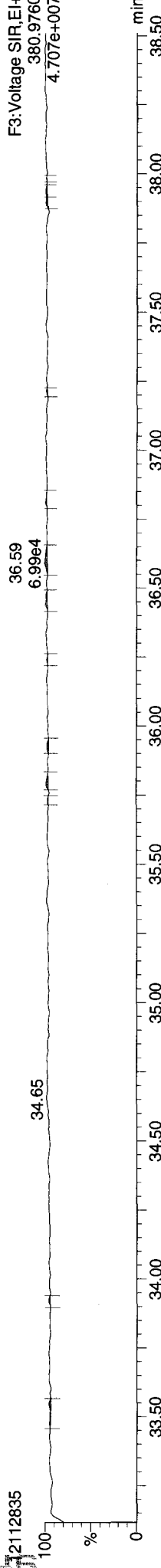
Total-hexadioxins

12112835



FUNCTION3 PFK

12112835



Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

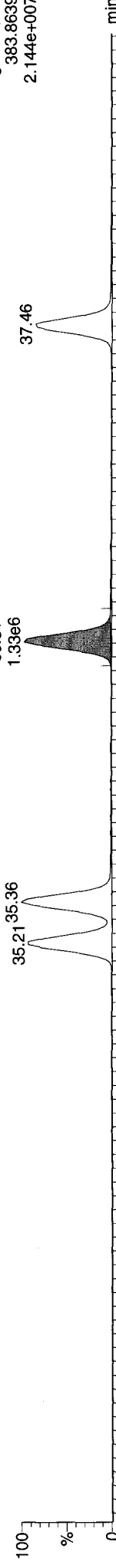
Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time

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Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF

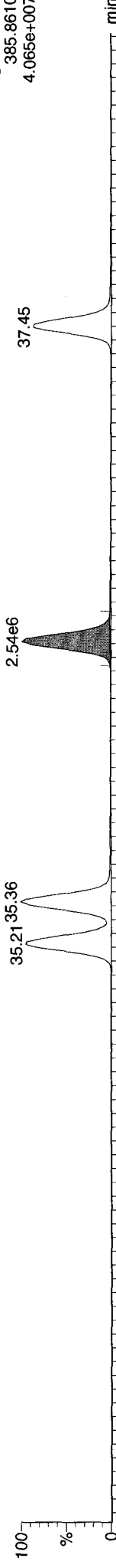
12112835



F3: Voltage SIR, EI+
383.8639
2.144e+007

13C-234678-HxCDF

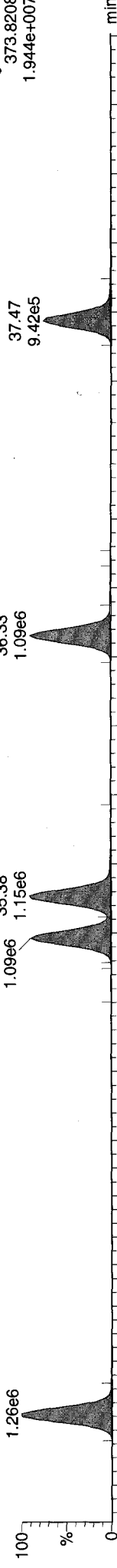
12112835



F3: Voltage SIR, EI+
385.8610
4.065e+007

Total-hexafurans

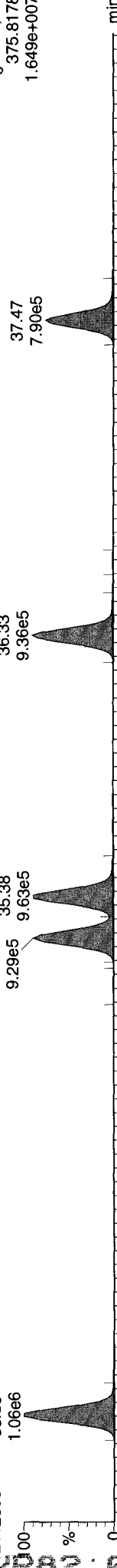
12112835



F3: Voltage SIR, EI+
373.8208
1.944e+007

Total-hexafurans

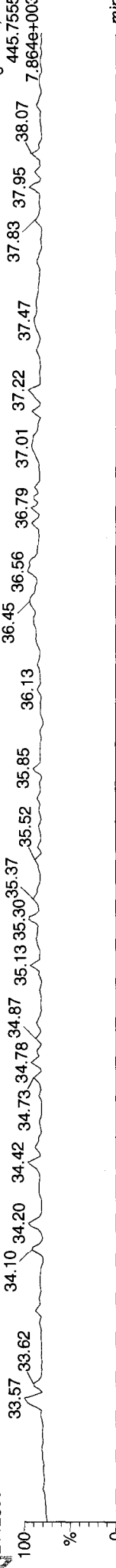
12112835



F3: Voltage SIR, EI+
375.8178
1.649e+007

FUNCTION3 OCDFE

12112835



F3: Voltage SIR, EI+
445.7555
7.864e+003

Dataset: P:\DIOXIN8290.PRO\121128DATA4.qld

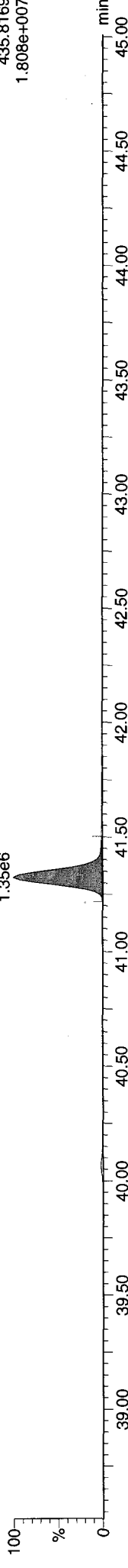
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Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

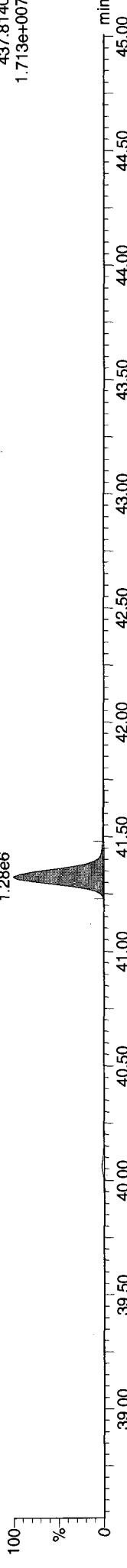
12112835



F4: Voltage SIR, EI+
435.8169
1.808e+007

13C-1234678-HpCDD

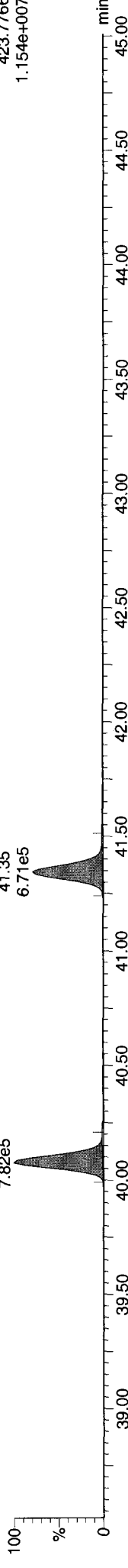
12112835



F4: Voltage SIR, EI+
437.8140
1.713e+007

Total-heptadioxins

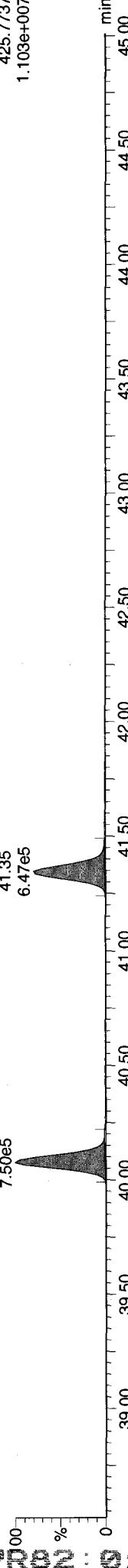
12112835



F4: Voltage SIR, EI+
423.7766
1.154e+007

Total-heptadioxins

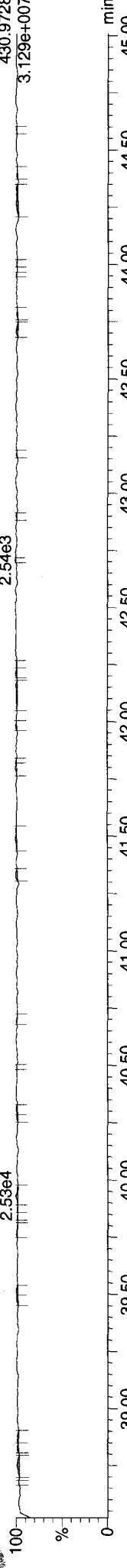
12112835



F4: Voltage SIR, EI+
425.7737
1.103e+007

FUNCTION4 PFK

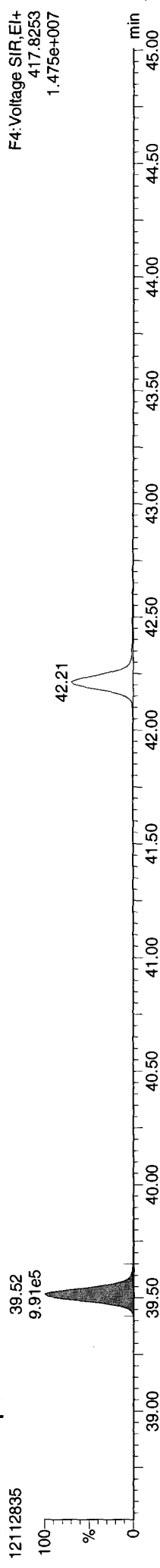
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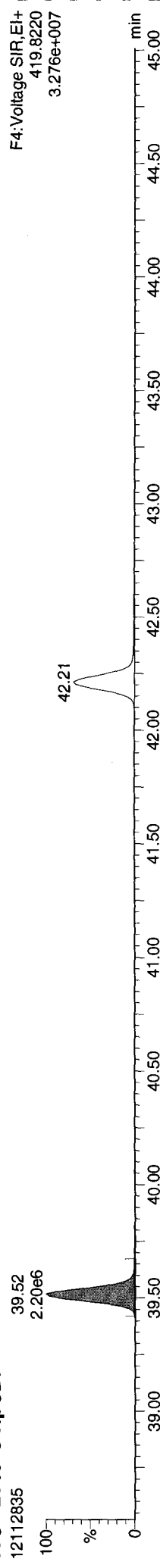
F4: Voltage SIR, EI+
430.9728
3.129e+007

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

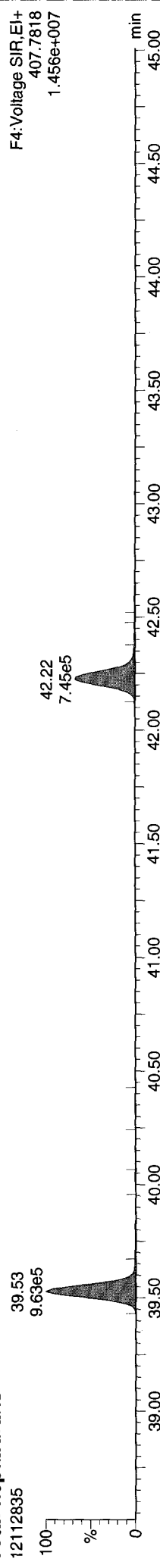
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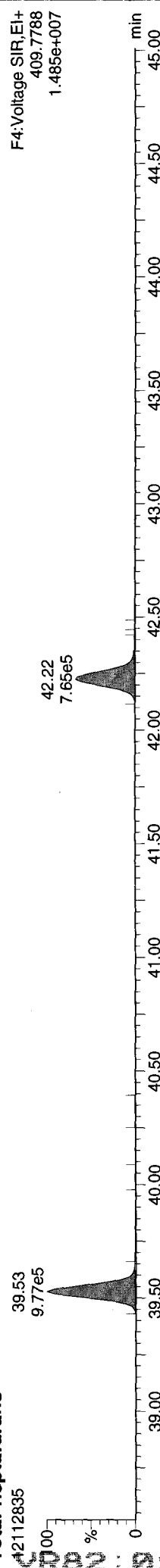
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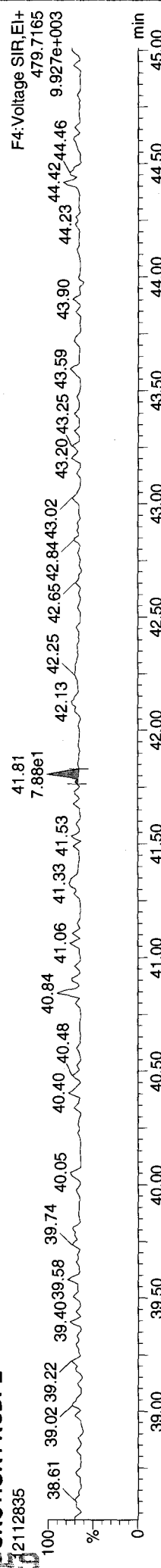
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

13C-OCDD

12112835

100%

47.23
2.06e6

F5: Voltage SIR, EI+
469.7779
2.051e+007

min
49.00

13C-OCDD

12112835

100%

47.24
2.31e6

F5: Voltage SIR, EI+
471.7750
2.301e+007

min
49.00

OCDD

12112835

100%

47.26
1.03e6

F5: Voltage SIR, EI+
457.7377
1.025e+007

min
49.00

OCDD

12112835

100%

47.26
1.15e6

F5: Voltage SIR, EI+
459.7348
1.154e+007

min
49.00

FUNCTION5 PFK

12112835

100%

46.77
1.84e4

47.25

F5: Voltage SIR, EI+
480.9696
1.890e+007

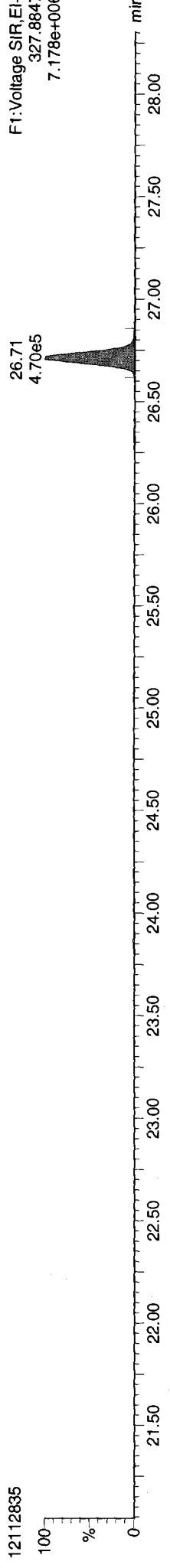
min
49.00

Quantity Sample Report MassLynx 4.1 SCN 714

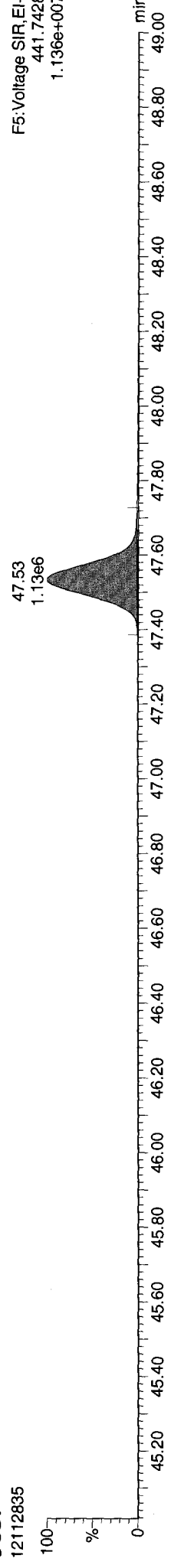
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Last Altered: Tuesday, December 11, 2012 10:56:23 Pacific Standard Time
Printed: Tuesday, December 11, 2012 13:00:01 Pacific Standard Time

Name: 12112835, Date: 29-Nov-2012, Time: 16:20:15, ID: CS3, Conditions: AUTOSPEC01, User: pk

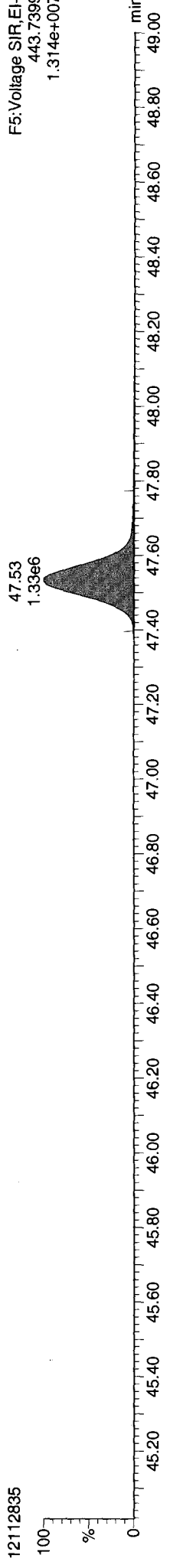
37CL-2378-TCDD



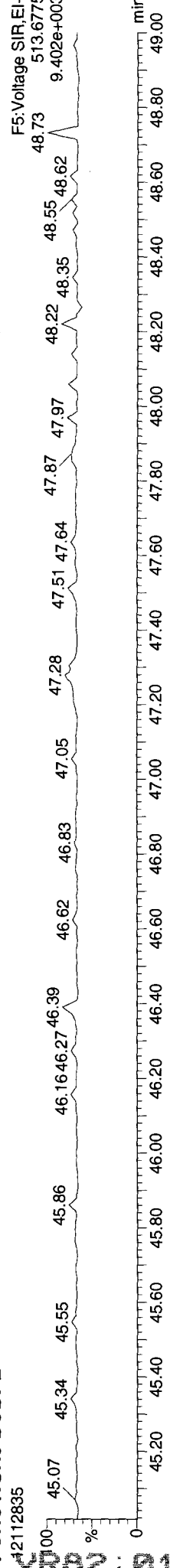
OCDF



OCDF



FUNCTION5 DCDPE



12112835 : 01 25 1

**Pesticide Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: VR82



Bottle #	ARI Sample I.D.	Weight Extracted (eq. to 12.5 dry wt)	(REQ) Sulfur Clean 2mL+0.5mL Ethyl Acetate 1 2 3	(REQ) Silica Gel Clean (1:2.5)	Final Effective Volume	Volume to Lab	Comment	Verify Client ID
	VR82 MBS	12.5g	2.5mL	(1:2.5) 1mL	2.5mL	1mL	(10g Actual Wt)	TH 11/15/12 Analyst/Date Microwave
	↓ SBS	12.5g	2.5mL	(1:2.5) 1mL	2.5mL	1mL	(10g Actual Wt)	TH 11/15/12
	SBS Dup.	12.5g	2.5mL	(1:2.5) 1mL	2.5mL	1mL	(10g Actual Wt)	Analyst/Date
4	VR82 ALS A	12.5g 47.17	2.5mL	(1:2.5) 1mL	2.5mL	1mL	(10g Actual Wt)	KD 100°C Hexane Exchange (2 X 20mL) RR/yc
4	B	51.17	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
4	C	15.20	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
4	D	37.06	2.5mL	(1:2.5) 1mL	2.5mL	1mL		11/26/12 Analyst/Date
4	E	44.41	2.5mL	(1:2.5) 1mL	2.5mL	1mL		TurboVap 123 Pre-Cleanups
4	F	36.23	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
4	G	35.51	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
4	H	31.32	2.5mL	(1:2.5) 1mL	2.5mL	1mL		11-27-12 Analyst/Date
4	Hms	31.39	2.5mL	(1:2.5) 1mL	2.5mL	1mL		TurboVap 123 Post Cleanups
4	HmsD	31.13	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
4	↓ I	35.92	2.5mL	(1:2.5) 1mL	2.5mL	1mL		
Analyst/Date		TH 11/15/12	IS 11-27-12	IS 11-27-12	IS 11-27-12	IS 11-27-12		11-27-12 Analyst/Date

Standard	Standard ID	Concentration	Volume	Expiration Date	Analyst	Witness
Surrogate	N (2035-2)	2µg/mL	50µL	5/16/13	MA	TH
Spike	3 (1983-1)	0.5/3/5µg/mL	100µL	12/13/12	MA	TH
ALS Spike	10 ()	0.25-2.5µg/mL	25µL			

Extraction Time: 16:45 Balance ID: B14642614

SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. Note: do not fill vessel more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask with sodium sulfate in the bottom and funnel containing neutral glasswool. 8. Rinse with Hexane 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD (Small or Large drying column) to 5mL at 100°C. 12. Exchange to Hexane (2 X with 20mL). 13. TurboVap. 14. Clean-ups. 15. TurboVap. 16. Vial in Hexane.

A. Need Total Solids Y/N B. Archive/Freeze Y/N



ARI Job No.: VR 82

Client ID: Anchor QEA, LLC

Parameter: PSDDA Pest

Client Project: City of Kenmore Sediment

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>ABCDEFGHI, I</u> ,	ET 11/9/12
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>ABCDEFGHI, I</u> .	CT 11/9/12
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>Small Rocks 10% c.</u>	CT 11/9/12
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	

(Centrifuge#1 used for all Centrifugations)

**Pesticide Raw Data
Initial Calibration**

ARI Job ID: VR82



GC Initial Calibration Notes

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) Other

Instrument: FID-3A FID-3B FID-4A **FID-4B** FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 **ECD-6** ECD-7 ECD-8

Curve Date(s): 10/3/2012 Internal Standard ID 2000-1 Expiration 7/26/2013

Endrin/DDT Breakdown <15%? **YES** / NO / NA ICV Exceeding ±20%? YES / **NO**
ICal Meets %RSD & r² Criteria **YES** / NO ICV Exceeding ±30%? YES / **NO**
Manual Integrations for ICal? **YES** / NO Linear Fits Used? YES / **NO**
Minimum Response S/N Met **YES** / NO Quadratic Fits Used? YES / **NO**
Calibration Points Dropped? YES / **NO**

Primary Source	Standard #	Expiration	Secondary Source	Standard #	Expiration
<u>DS</u>	<u>1991-1</u>	<u>1/14/2013</u>	<u>INDA ICV</u>	<u>1987-3</u>	<u>10/4/2012</u>
<u>IB</u>	<u>1982-2</u>	<u>5/16/2013</u>	<u>WND ICV</u>	<u>1988-1</u>	<u>11/30/2012</u>
<u>INDA</u>	<u>1982-1</u>	<u>12/3/2012</u>	<u>HCB/HCB D ICV</u>	<u>1870-2E</u>	<u>6/20/2012</u>
<u>WND</u>	<u>1982-3</u>	<u>1/21/2013</u>			
<u>Toxaphene</u>	<u>1984-3</u>	<u>12/14/2012</u>			
<u>Teclordane</u>	<u>1985-1</u>	<u>5/16/2013</u>			

Detail problems, corrective actions and/or other pertinent information below:

Toxaphene, T-Clordane single points were added on 10/12/12.

Keponone single point was added on 10/13/12.

Analyst: [Signature] Date: 10/4/2012

Reviewer: [Signature] Date: 10/4/12

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/ical-2.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-OCT-2012 15:10	1003A009.d	1	DS	
2	03-OCT-2012 15:27	1003A010.d	1	IB	
3	03-OCT-2012 15:45	1003A011.d	1	INDAE	
4	03-OCT-2012 16:03	1003A012.d	1	WNDE	
5	03-OCT-2012 16:21	1003A013.d	1	TOXAPH	
6	03-OCT-2012 16:39	1003A014.d	1	INDAE	
7	03-OCT-2012 16:56	1003A015.d	1	INDAA	
8	03-OCT-2012 17:14	1003A016.d	1	INDAB	
9	03-OCT-2012 17:32	1003A017.d	1	INDAC	
10	03-OCT-2012 17:50	1003A018.d	1	INDAD	
11	03-OCT-2012 18:08	1003A019.d	1	INDAF	
12	03-OCT-2012 18:26	1003A020.d	1	INDAG	
13	03-OCT-2012 18:43	1003A021.d	1	INDA ICV	
14	03-OCT-2012 19:01	1003A022.d	1	HCB/HCBD ICV	
15	03-OCT-2012 19:19	1003A023.d	1	WNDE	
16	03-OCT-2012 19:37	1003A024.d	1	WNDA	
17	03-OCT-2012 19:55	1003A025.d	1	WNDB	
18	03-OCT-2012 20:12	1003A026.d	1	WNDC	
19	03-OCT-2012 20:30	1003A027.d	1	WNDD	
20	03-OCT-2012 20:48	1003A028.d	1	WNDF	
21	03-OCT-2012 21:06	1003A029.d	1	WNDG	
22	03-OCT-2012 21:24	1003A030.d	1	WND ICV ← air inject	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A024.d
 Level 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A025.d
 Level 3: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A026.d
 Level 4: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A027.d
 Level 5: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A023.d
 Level 6: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A028.d
 Level 7: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A029.d

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
1 Hexachlorobutadiene	1.96452 1.50700	1.88941	1.85758	1.72561	1.65924	1.55490	1.73689	10.021
3 Hexachlorobenzene	1.77740 1.24119	1.66369	1.61105	1.49324	1.40813	1.31793	1.50180	12.885
4 alpha-BHC	1.70683 1.70994	1.73283	1.80435	1.77722	1.76123	1.72410	1.74521	2.105
5 gamma-BHC (Lindane)	1.60945 1.49096	1.60439	1.63753	1.59885	1.57117	1.53148	1.57769	3.216
6 beta-BHC	0.78856 0.62743	0.75069	0.74994	0.70069	0.67462	0.65247	0.70634	8.334
7 delta-BHC	1.33552 1.38744	1.36638	1.41057	1.38376	1.41291	1.39443	1.38443	1.938

Analytical Resources, Inc.

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 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
8 Heptachlor	1.58565 1.21233	1.54846	1.55095	1.48197	1.41549	1.31649	1.44448	9.568
37 Chlorthalonil	++++ ++++	++++	++++	++++	++++	++++	++++	++++
9 Aldrin	1.51600 1.22122	1.49789	1.51234	1.46276	1.40832	1.32410	1.42038	7.844
10 Heptachlor Epoxide a	++++ ++++	++++	++++	++++	++++	++++	++++	++++
11 Heptachlor epoxide b	1.44761 1.04907	1.40029	1.37924	1.30458	1.23837	1.14382	1.28042	11.345
12 gamma-Chlordane	1.49549 1.15225	1.43152	1.40996	1.33982	1.29674	1.22454	1.33576	9.055
13 alpha-Chlordane	1.37398 1.08079	1.33392	1.32102	1.25634	1.20478	1.14711	1.24542	8.587
14 Endosulfan I	1.26978 0.96428	1.24395	1.23358	1.17303	1.11763	1.04639	1.14981	9.850
15 4,4'-DDE	1.29981 0.93083	1.27916	1.27711	1.20080	1.11468	1.01602	1.15977	12.417

Analytical Resources, Inc.

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 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
16 Dieldrin	1.35910 0.99399	1.33841	1.33147	1.25422	1.16627	1.07097	1.21635	11.774
17 Endrin	1.59095 1.11612	1.53734	1.49373	1.40919	1.32841	1.18568	1.38020	12.998
18 4,4'-DDD	1.43433 1.11604	1.40840	1.39214	1.33378	1.27120	1.16860	1.30350	9.462
19 Endosulfan II	1.58713 1.14354	1.52275	1.48555	1.39752	1.31774	1.20302	1.37961	12.051
20 4,4'-DDT	1.34644 1.11143	1.31004	1.30034	1.25878	1.21281	1.14333	1.24045	7.123
21 Endrin aldehyde	1.25867 0.91023	1.19525	1.15283	1.09374	1.03694	0.95492	1.08608	11.693
22 Endosulfan sulfate	1.27852 1.01791	1.24336	1.21726	1.17793	1.13201	1.05347	1.16006	8.396
23 Methoxychlor	0.65922 +++++	0.60416	0.55266	0.49723	0.44948	0.41261	0.52923	17.734
24 Endrin ketone	1.34557 1.01204	1.26901	1.21268	1.15254	1.09245	1.02737	1.15881	10.754

Analytical Resources, Inc.

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 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Toxaphene(1)	+++++	+++++	+++++	+++++	0.04805	+++++	0.04805	0.000

Analytical Resources, Inc.

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
(2)	++++	++++	++++	++++	0.07107	++++	0.07107	0.000
(3)	++++	++++	++++	++++	0.07967	++++	0.07967	0.000
(4)	++++	++++	++++	++++	0.05935	++++	0.05935	0.000
(5)	++++	++++	++++	++++	0.02785	++++	0.02785	0.000
38 2,4-DDE	0.97949 0.53372	0.83494	0.79987	0.73476	0.67624	0.60532	0.73776	20.309
39 2,4-DDD	1.13549 0.69140	0.97967	0.94479	0.89950	0.84410	0.77710	0.89601	16.137
40 2,4-DDT	1.21207 0.77228	1.05333	1.03069	0.98415	0.92238	0.86762	0.97750	14.520
41 Hexachloroethane	++++	++++	++++	++++	++++	++++	++++	++++
42 Oxychlordan	1.22760 0.83939	1.09508	1.08515	1.02028	0.96995	0.90368	1.02016	12.758

Analytical Resources, Inc.

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
43 trans-Nonachlor	2.00494 1.35598	1.77062	1.75652	1.68455	1.58512	1.48614	1.66341	12.737
44 cis-Nonachlor	2.09733 1.45320	1.84381	1.81720	1.74905	1.64786	1.56613	1.73922	12.094
45 Mirex	1.27446 0.78316	1.05839	1.00141	0.92483	0.86110	0.82792	0.96161	17.505
46 bis-(2-ethylhexyl) Phthalate	++++ ++++	++++	++++	++++	++++	++++	++++	++++
56 Tech-Chlordane(1)	++++ ++++	++++	++++	++++	++++	++++	++++	++++
(2)	++++ ++++	++++	++++	++++	++++	++++	++++	++++
(3)	++++ ++++	++++	++++	++++	++++	++++	++++	++++
47 Trifluralin	++++ ++++	++++	++++	++++	++++	++++	++++	++++
48 Dacthal	++++ ++++	++++	++++	++++	++++	++++	++++	++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Cal Date : 04-Oct-2012 10:27 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
49 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 2 Tetrachloro-m-xylene	1.65121 1.09384	1.58336	1.53549	1.40581	1.29451	1.16920	1.39049	15.330
\$ 25 Decachlorobiphenyl	1.54270 1.01956	1.40157	1.29288	1.19023	1.11868	1.04550	1.23016	15.688

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/ical-2.b
 ARI Job No.: DS Method: PEST1003B.m Instrument: ecd6.i Date: 03-OCT-2012

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1510	1003A009.d	DS		1	NO MANUAL INTEGRATION
1527	1003A010.d	IB		1	NO MANUAL INTEGRATION
1545	1003A011.d	INDAE		1	NO MANUAL INTEGRATION
1603	1003A012.d	WNDE		1	NO MANUAL INTEGRATION
1621	1003A013.d	TOXAPH		1	Toxaphene,
1639	1003A014.d	INDAE		1	NO MANUAL INTEGRATION
1656	1003A015.d	INDRA		1	NO MANUAL INTEGRATION
1714	1003A016.d	INDAB		1	NO MANUAL INTEGRATION
1732	1003A017.d	INDAC		1	NO MANUAL INTEGRATION
1750	1003A018.d	INDAD		1	NO MANUAL INTEGRATION
1808	1003A019.d	INDAF		1	NO MANUAL INTEGRATION
1826	1003A020.d	INDAG		1	NO MANUAL INTEGRATION
1843	1003A021.d	INDA ICV		1	NO MANUAL INTEGRATION
1901	1003A022.d	HCB/HCBD ICV		1	NO MANUAL INTEGRATION
1919	1003A023.d	WNDE		1	NO MANUAL INTEGRATION
1937	1003A024.d	WNDA		1	NO MANUAL INTEGRATION
1955	1003A025.d	WNDB		1	NO MANUAL INTEGRATION
2012	1003A026.d	WNDC		1	NO MANUAL INTEGRATION
2030	1003A027.d	WNDD		1	NO MANUAL INTEGRATION
2048	1003A028.d	WNDF		1	NO MANUAL INTEGRATION

2106 1003A029.d WNDG

1

NO MANUAL INTEGRATION

VRB2 : 01255

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/ical-2.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2124 1003A030.d WND ICV 1 NO MANUAL INTEGRATION

0836 1003A031.d TECHLOR 200 1 NO MANUAL INTEGRATION

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT07	RT07
FILENAME:	1003A014	1003A015	1003A016	1003A017	1003A018	1003A019	1003A020	1003A020	1003A020
INJ.DATE:	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012
INJ.TIME:	16:39	16:56	17:14	17:32	17:50	18:08	18:26	18:26	18:26

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.376	2.376	2.376	2.376	2.376	2.377	2.377	2.376	2.326-2.426	2.376	0.001
* 52 1Bromo-2nitrobenzene	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.145-3.245	3.195	0.000
* 55 Hexabromobiphenyl	10.105	10.106	10.106	10.106	10.107	10.106	10.107	10.105	10.055-10.155	10.106	0.001
§ 2 Tetrachloro-m-xylene	4.007	4.006	4.007	4.006	4.007	4.007	4.008	4.007	3.957-4.057	4.007	0.000
3 Hexachlorobenzene	4.458	4.457	4.458	4.457	4.458	4.457	4.458	4.458	4.408-4.508	4.458	0.000
4 alpha-BHC	4.584	4.584	4.584	4.584	4.585	4.584	4.585	4.584	4.534-4.634	4.584	0.001
5 gamma-BHC (Lindane)	4.936	4.936	4.936	4.936	4.936	4.936	4.937	4.936	4.886-4.986	4.936	0.000
6 beta-BHC	5.007	5.006	5.006	5.006	5.007	5.006	5.007	5.007	4.957-5.057	5.006	0.000
7 delta-BHC	5.314	5.314	5.313	5.313	5.314	5.314	5.314	5.314	5.264-5.364	5.314	0.000
8 Heptachlor	5.397	5.396	5.396	5.396	5.397	5.396	5.397	5.397	5.347-5.447	5.396	0.001
37 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588-14.638	+++++	+++++
9 Aldrin	5.735	5.734	5.734	5.734	5.735	5.735	5.736	5.735	5.685-5.785	5.735	0.001
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.630-12.730	+++++	+++++
11 Heptachlor epoxide b	6.293	6.292	6.292	6.292	6.293	6.292	6.293	6.293	6.243-6.343	6.293	0.001
12 gamma-Chlordane	6.475	6.475	6.475	6.474	6.475	6.475	6.476	6.475	6.425-6.525	6.475	0.001
13 alpha-Chlordane	6.614	6.613	6.613	6.613	6.614	6.613	6.615	6.614	6.564-6.664	6.614	0.001
14 Endosulfan I	6.680	6.679	6.679	6.679	6.679	6.679	6.680	6.680	6.630-6.730	6.679	0.000

Reviewer 1 AR Date: 10/4/2012
 Reviewer 2 RB Date: 10/4/12

04 OCT 2012 10:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 4,4'-DDE	6.744	6.744	6.744	6.744	6.744	6.744	6.745	6.744	6.694-6.794	6.744	0.001
16 Dieldrin	6.938	6.938	6.937	6.937	6.938	6.937	6.939	6.938	6.888-6.988	6.938	0.001
17 Endrin	7.228	7.227	7.227	7.227	7.228	7.227	7.228	7.228	7.178-7.278	7.227	0.000
18 4,4'-DDD	7.282	7.282	7.281	7.281	7.282	7.282	7.283	7.282	7.232-7.332	7.282	0.001
19 Endosulfan II	7.416	7.416	7.415	7.415	7.416	7.416	7.416	7.416	7.366-7.466	7.416	0.000
20 4,4'-DDT	7.571	7.571	7.570	7.570	7.571	7.570	7.571	7.571	7.521-7.621	7.570	0.000
21 Endrin aldehyde	7.715	7.715	7.714	7.714	7.715	7.714	7.715	7.715	7.665-7.765	7.715	0.000
22 Endosulfan sulfate	7.960	7.959	7.959	7.959	7.959	7.959	7.960	7.960	7.910-8.010	7.959	0.000
23 Methoxychlor	8.156	8.156	8.155	8.155	8.156	8.156	8.158	8.156	8.106-8.206	8.156	0.001
24 Endrin ketone	8.448	8.447	8.447	8.447	8.448	8.447	8.449	8.448	8.398-8.498	8.448	0.001
25 Decachlorobiphenyl	9.565	9.565	9.565	9.566	9.566	9.565	9.566	9.565	9.515-9.615	9.566	0.001
26 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.130-4.230	+++++	+++++
27 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.001-5.101	+++++	+++++
28 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.121-5.221	+++++	+++++
29 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.920-5.020	+++++	+++++
30 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.235-5.335	+++++	+++++
31 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.918-6.018	+++++	+++++
32 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.717-6.817	+++++	+++++
33 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.664-9.764	+++++	+++++
34 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.741-11.841	+++++	+++++
35 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.164	7.114-7.214	+++++	+++++
38 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.454	6.404-6.504	+++++	+++++

VR02 : 01250

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
39 2,4-DDD	++++	++++	++++	++++	++++	++++	++++	6.939	6.889-6.989	++++	++++
40 2,4-DDT	++++	++++	++++	++++	++++	++++	++++	7.227	7.177-7.277	++++	++++
41 Hexachloroethane	++++	++++	++++	++++	++++	++++	++++	1.728	1.678-1.778	++++	++++
42 Oxychlorane	++++	++++	++++	++++	++++	++++	++++	6.203	6.153-6.253	++++	++++
43 trans-Nonachlor	++++	++++	++++	++++	++++	++++	++++	6.560	6.510-6.610	++++	++++
44 cis-Nonachlor	++++	++++	++++	++++	++++	++++	++++	7.286	7.236-7.336	++++	++++
45 Mirex	++++	++++	++++	++++	++++	++++	++++	8.434	8.384-8.484	++++	++++
46 bis-(2-ethylhexyl) Pht	++++	++++	++++	++++	++++	++++	++++	21.499	21.449-21.549	++++	++++
56 Tech-Chlordane	++++	++++	++++	++++	++++	++++	++++	5.919	5.869-5.969	++++	++++
47 Trifluralin	++++	++++	++++	++++	++++	++++	++++	4.871	4.821-4.921	++++	++++
48 Dacthal	++++	++++	++++	++++	++++	++++	++++	6.640	6.590-6.690	++++	++++
49 Oxadiazon	++++	++++	++++	++++	++++	++++	++++	8.115	8.065-8.165	++++	++++
50 Kelthane	++++	++++	++++	++++	++++	++++	++++	11.286	11.236-11.336	++++	++++
51 Chlorpyrifos	++++	++++	++++	++++	++++	++++	++++	6.527	6.477-6.577	++++	++++
53 Methyl Parathion	++++	++++	++++	++++	++++	++++	++++	6.342	6.292-6.392	++++	++++
54 Ethyl Parathion	++++	++++	++++	++++	++++	++++	++++	6.841	6.791-6.891	++++	++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	1003A023	1003A024	1003A025	1003A026	1003A027	1003A028	1003A029				
INJ. DATE:	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012				
INJ. TIME:	19:19	19:37	19:55	20:12	20:30	20:48	21:06				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	++++	++++	++++	++++	++++	++++	++++	2.377	2.327-2.427	++++	++++
* 52 1Bromo-2nitrobenzene	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.145-3.245	3.195	0.000
* 55 Hexabromobiphenyl	10.105	10.106	10.106	10.106	10.106	10.106	10.106	10.105	10.055-10.155	10.106	0.000
\$ 2 Tetrachloro-m-xylene	4.007	4.007	4.007	4.007	4.007	4.007	4.008	4.008	3.958-4.058	4.007	0.000
3 Hexachlorobenzene	++++	++++	++++	++++	++++	++++	++++	4.458	4.408-4.508	++++	++++
4 alpha-BHC	++++	++++	++++	++++	++++	++++	++++	4.585	4.535-4.635	++++	++++
5 gamma-BHC (Lindane)	++++	++++	++++	++++	++++	++++	++++	4.937	4.887-4.987	++++	++++
6 beta-BHC	++++	++++	++++	++++	++++	++++	++++	5.007	4.957-5.057	++++	++++
7 delta-BHC	++++	++++	++++	++++	++++	++++	++++	5.314	5.264-5.364	++++	++++
8 Heptachlor	++++	++++	++++	++++	++++	++++	++++	5.397	5.347-5.447	++++	++++
37 Chlorthalonil	++++	++++	++++	++++	++++	++++	++++	14.588	14.538-14.638	++++	++++
9 Aldrin	++++	++++	++++	++++	++++	++++	++++	5.736	5.686-5.786	++++	++++
10 Heptachlor Epoxide a	++++	++++	++++	++++	++++	++++	++++	12.680	12.630-12.730	++++	++++
11 Heptachlor epoxide b	++++	++++	++++	++++	++++	++++	++++	6.293	6.243-6.343	++++	++++
12 gamma-Chlordane	++++	++++	++++	++++	++++	++++	++++	6.476	6.426-6.526	++++	++++
13 alpha-Chlordane	++++	++++	++++	++++	++++	++++	++++	6.615	6.565-6.665	++++	++++
14 Endosulfan I	++++	++++	++++	++++	++++	++++	++++	6.680	6.630-6.730	++++	++++

Reviewer 1 AR Date: 10/4/2012
Reviewer 2 [Signature] Date: [Signature]

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m

Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b

Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 4,4'-DDE	++++	++++	++++	++++	++++	++++	++++	6.745	6.695-6.795	++++	++++
16 Dieldrin	++++	++++	++++	++++	++++	++++	++++	6.939	6.889-6.989	++++	++++
17 Endrin	++++	++++	++++	++++	++++	++++	++++	7.228	7.178-7.278	++++	++++
18 4,4'-DDD	++++	++++	++++	++++	++++	++++	++++	7.283	7.233-7.333	++++	++++
19 Endosulfan II	++++	++++	++++	++++	++++	++++	++++	7.416	7.366-7.466	++++	++++
20 4,4'-DDT	++++	++++	++++	++++	++++	++++	++++	7.571	7.521-7.621	++++	++++
21 Endrin aldehyde	++++	++++	++++	++++	++++	++++	++++	7.715	7.665-7.765	++++	++++
22 Endosulfan sulfate	++++	++++	++++	++++	++++	++++	++++	7.960	7.910-8.010	++++	++++
23 Methoxychlor	++++	++++	++++	++++	++++	++++	++++	8.158	8.108-8.208	++++	++++
24 Endrin ketone	++++	++++	++++	++++	++++	++++	++++	8.449	8.399-8.499	++++	++++
25 Decachlorobiphenyl	9.565	9.565	9.565	9.565	9.566	9.566	9.565	9.566	9.516-9.616	9.565	0.000
26 Aroclor-1016	++++	++++	++++	++++	++++	++++	++++	4.180	4.130-4.230	++++	++++
27 Aroclor-1221	++++	++++	++++	++++	++++	++++	++++	5.051	5.001-5.101	++++	++++
28 Aroclor-1232	++++	++++	++++	++++	++++	++++	++++	5.171	5.121-5.221	++++	++++
29 Aroclor-1242	++++	++++	++++	++++	++++	++++	++++	4.970	4.920-5.020	++++	++++
30 Aroclor-1248	++++	++++	++++	++++	++++	++++	++++	5.285	5.235-5.335	++++	++++
31 Aroclor-1254	++++	++++	++++	++++	++++	++++	++++	5.968	5.918-6.018	++++	++++
32 Aroclor-1260	++++	++++	++++	++++	++++	++++	++++	6.767	6.717-6.817	++++	++++
33 Aroclor-1262	++++	++++	++++	++++	++++	++++	++++	9.714	9.664-9.764	++++	++++
34 Aroclor-1268	++++	++++	++++	++++	++++	++++	++++	11.791	11.741-11.841	++++	++++
35 Toxaphene	++++	++++	++++	++++	++++	++++	++++	7.164	7.114-7.214	++++	++++
38 2,4-DDE	6.454	6.453	6.453	6.453	6.453	6.454	6.453	6.454	6.404-6.504	6.453	0.000

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003B.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-2.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
39 2,4-DDD	6.939	6.939	6.939	6.939	6.939	6.939	6.939	6.939	6.889-6.989	6.939	0.000
40 2,4-DDT	7.227	7.227	7.227	7.227	7.227	7.227	7.227	7.227	7.177-7.277	7.227	0.000
41 Hexachloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.728	1.678-1.778	0.000	0.000
42 Oxychlorthane	6.203	6.202	6.203	6.202	6.203	6.203	6.203	6.203	6.153-6.253	6.203	0.000
43 trans-Nonachlor	6.560	6.560	6.560	6.560	6.560	6.561	6.561	6.560	6.510-6.610	6.560	0.000
44 cis-Nonachlor	7.286	7.286	7.286	7.285	7.286	7.286	7.286	7.286	7.236-7.336	7.286	0.000
45 Mirex	8.433	8.433	8.433	8.433	8.433	8.434	8.434	8.433	8.383-8.483	8.434	0.000
46 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.449-21.549	+++++	+++++
56 Tech-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.919	5.869-5.969	+++++	+++++
47 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.821-4.921	+++++	+++++
48 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.590-6.690	+++++	+++++
49 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.065-8.165	+++++	+++++
50 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.236-11.336	+++++	+++++
51 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.477-6.577	+++++	+++++
53 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.292-6.392	+++++	+++++
54 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.791-6.891	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A024.d
 Level 2: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A025.d
 Level 3: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A026.d
 Level 4: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A027.d
 Level 5: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A023.d
 Level 6: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A028.d
 Level 7: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A029.d

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
1 Hexachlorobutadiene	2.08122 1.63666	1.94023	1.88041	1.76338	1.70361	1.64246	1.80685	9.234
3 Hexachlorobenzene	1.59035 1.12008	1.45330	1.36965	1.26348	1.19689	1.13240	1.30374	13.468
4 alpha-BHC	1.48360 1.51994	1.46155	1.49380	1.48821	1.49848	1.49064	1.49089	1.172
5 gamma-BHC (Lindane)	1.42027 1.36284	1.37361	1.37657	1.35654	1.35517	1.34310	1.36973	1.827
6 beta-BHC	0.75152 0.55679	0.69280	0.65689	0.60737	0.58368	0.56247	0.63022	11.590
7 delta-BHC	1.20266 1.24776	1.17048	1.17866	1.18779	1.20882	1.21617	1.20176	2.170

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
8 Heptachlor	1.37096 1.16397	1.29380	1.26529	1.22345	1.20404	1.17174	1.24189	5.941
9 Aldrin	1.38830 1.19792	1.30944	1.28954	1.25093	1.23693	1.20472	1.26825	5.272
38 Chlorthalonil	++++ ++++	++++	++++	++++	++++	++++	++++	++++
10 Heptachlor Epoxide a	++++ ++++	++++	++++	++++	++++	++++	++++	++++
11 Heptachlor epoxide b	1.41113 1.08846	1.31130	1.26157	1.19952	1.17085	1.11494	1.22254	9.310
12 gamma-Chlordane	1.37924 1.13348	1.28112	1.23666	1.18606	1.16066	1.13221	1.21563	7.442
13 alpha-Chlordane	1.34294 1.07773	1.24571	1.19997	1.14614	1.11500	1.08492	1.17320	8.221
14 Endosulfan I	1.30064 1.01555	1.21267	1.16698	1.11141	1.07734	1.03495	1.13136	9.025
15 4,4'-DDE	1.15090 1.01565	1.10895	1.10913	1.08332	1.06301	1.02741	1.07977	4.461

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
16 Dieldrin	1.26962 1.07520	1.22036	1.21488	1.17193	1.14024	1.09397	1.16946	6.059
17 Endrin	1.18550 1.02212	1.13729	1.12312	1.08787	1.07574	1.01997	1.09309	5.553
18 4,4'-DDD	1.03194 0.90115	0.99156	0.97503	0.94745	0.93552	0.89862	0.95447	5.092
19 Endosulfan II	1.18813 0.95522	1.12694	1.09574	1.04233	1.01705	0.96342	1.05555	8.159
20 4,4'-DDT	1.01190 0.93269	0.98009	0.97205	0.95041	0.94668	0.92402	0.95969	3.169
21 Endrin aldehyde	0.98487 0.76300	0.92248	0.88072	0.83463	0.80715	0.76588	0.85125	9.722
22 Methoxychlor	0.55785 0.41454	0.52375	0.49243	0.45541	0.43083	0.40961	0.46920	12.174
23 Endosulfan sulfate	0.98577 0.82672	0.93736	0.90840	0.87882	0.85578	0.82638	0.88846	6.672
24 Endrin ketone	1.22441 0.95438	1.11557	1.06066	1.00861	0.96767	0.94155	1.03898	9.892

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
35 Toxaphene (1)	++++ ++++	++++	++++	++++	0.02494	++++	0.02494	0.000
(2)	++++ ++++	++++	++++	++++	0.03398	++++	0.03398	0.000
(3)	++++ ++++	++++	++++	++++	0.02866	++++	0.02866	0.000
(4)	++++ ++++	++++	++++	++++	0.03669	++++	0.03669	0.000
(5)	++++ ++++	++++	++++	++++	0.03125	++++	0.03125	0.000
(6)	++++ ++++	++++	++++	++++	0.02327	++++	0.02327	0.000
39 2,4-DDE	0.88094 0.62740	0.75976	0.74096	0.72970	0.70472	0.67437	0.73112	10.891
40 2,4-DDD	0.80172 0.57003	0.69242	0.66336	0.63593	0.62037	0.60087	0.65496	11.613
41 2,4-DDT	0.89394 0.65022	0.77741	0.74942	0.72250	0.70393	0.69236	0.74140	10.608

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlorane	1.20752 0.86792	1.03897	1.01070	0.96914	0.94973	0.91913	0.99473	11.010
44 trans-Nonachlor	1.39750 1.06434	1.22359	1.19551	1.15838	1.13889	1.11496	1.18474	9.055
45 cis-Nonachlor	1.44929 1.15379	1.27172	1.25939	1.22765	1.21920	1.20345	1.25493	7.488
46 Mirex	1.09310 0.70039	0.90433	0.85442	0.79518	0.76223	0.73762	0.83532	15.933
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Tech-Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2012 16:21
 End Cal Date : 03-OCT-2012 21:06
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20121003PEST.b/PEST1003.m
 Cal Date : 04-Oct-2012 10:53 aron
 Curve Type : Average

Compound	1.250	2.500	5.000	10.000	20.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000							
	Level 7							
48 Trifluralin	++++	++++	++++	++++	++++	++++	++++	++++
49 Dacthal	++++	++++	++++	++++	++++	++++	++++	++++
50 Oxadiazon	++++	++++	++++	++++	++++	++++	++++	++++
51 Kelthane	++++	++++	++++	++++	++++	++++	++++	++++
53 Chlorpyrifos	++++	++++	++++	++++	++++	++++	++++	++++
55 Methyl Parathion	++++	++++	++++	++++	++++	++++	++++	++++
56 Ethyl Parathion	++++	++++	++++	++++	++++	++++	++++	++++
\$ 2 Tetrachloro-m-xylene	1.34597 1.05358	1.27986	1.24584	1.17341	1.12866	1.07044	1.18539	9.261
\$ 25 Decachlorobiphenyl	1.38903 0.87835	1.22428	1.12392	1.02051	0.95315	0.89483	1.06915	17.581

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/ical-1.b

ARI Job No.: DS Method: PEST1003.m Instrument: ecd6.i Date: 03-OCT-2012

Time Filename LabID ClientId DF Manually Integrated Compounds

1510 1003A009.d DS 1 NO MANUAL INTEGRATION

1527 1003A010.d IB 1 NO MANUAL INTEGRATION

1545 1003A011.d INDAE 1 NO MANUAL INTEGRATION

1603 1003A012.d WNDE 1 NO MANUAL INTEGRATION

1621 1003A013.d TOXAPH 1 Toxaphene,

1639 1003A014.d INDAE 1 NO MANUAL INTEGRATION

1656 1003A015.d INDAE 1 NO MANUAL INTEGRATION

1714 1003A016.d INDAE 1 NO MANUAL INTEGRATION

1732 1003A017.d INDAC 1 NO MANUAL INTEGRATION

1750 1003A018.d INDAD 1 NO MANUAL INTEGRATION

1808 1003A019.d INDAF 1 NO MANUAL INTEGRATION

1826 1003A020.d INDAG 1 NO MANUAL INTEGRATION

1843 1003A021.d INDA ICV 1 NO MANUAL INTEGRATION

1901 1003A022.d HCB/HCBED ICV 1 NO MANUAL INTEGRATION

1919 1003A023.d WNDE 1 NO MANUAL INTEGRATION

1937 1003A024.d WNDA 1 NO MANUAL INTEGRATION

1955 1003A025.d WNDB 1 NO MANUAL INTEGRATION

1912 1003A026.d WNDC 1 NO MANUAL INTEGRATION

1930 1003A027.d WNDD 1 NO MANUAL INTEGRATION

2048 1003A028.d WNDF 1 NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/ical-1.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2124 1003A030.d WND ICV 1 NO MANUAL INTEGRATION

0836 1003A031.d TECHLOR 200 1 NO MANUAL INTEGRATION

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

ID	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME: 1003A014	1003A015	1003A016	1003A017	1003A018	1003A019	1003A020					
INJ. DATE: 03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012				
INJ. TIME: 16:39	17:14	17:32	17:50	18:08	18:26						
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.210	2.209	2.210	2.209	2.210	2.210	2.210	2.210	2.160-2.260	2.210	0.000
* 54 1Bromo-2nitrobenzene	3.015	3.015	3.015	3.015	3.015	3.015	3.015	3.015	2.965-3.065	3.015	0.000
* 58 Hexabromobiphenyl	8.750	8.750	8.750	8.750	8.750	8.750	8.750	8.750	8.700-8.800	8.750	0.000
\$ 2 Tetrachloro-m-xylene	3.670	3.670	3.670	3.669	3.670	3.670	3.670	3.670	3.620-3.720	3.670	0.000
3 Hexachlorobenzene	4.002	4.002	4.001	4.001	4.001	4.001	4.002	4.002	3.952-4.052	4.002	0.000
4 alpha-BHC	4.147	4.146	4.147	4.146	4.147	4.147	4.147	4.147	4.097-4.197	4.147	0.000
5 gamma-BHC (Lindane)	4.424	4.424	4.424	4.424	4.424	4.424	4.424	4.424	4.374-4.474	4.424	0.000
6 beta-BHC	4.497	4.497	4.497	4.497	4.497	4.497	4.497	4.497	4.447-4.547	4.497	0.000
7 delta-BHC	4.663	4.663	4.662	4.662	4.663	4.662	4.663	4.663	4.613-4.713	4.663	0.000
8 Heptachlor	4.862	4.861	4.861	4.861	4.861	4.861	4.862	4.862	4.812-4.912	4.861	0.000
9 Aldrin	5.148	5.148	5.148	5.147	5.148	5.148	5.149	5.149	5.098-5.199	5.148	0.000
38 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.577-13.677	+++++
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.819-10.919	+++++
11 Heptachlor epoxide b	5.723	5.723	5.722	5.722	5.722	5.722	5.723	5.723	5.673-5.773	5.722	0.000
12 gamma-Chlordane	5.843	5.842	5.842	5.842	5.842	5.842	5.842	5.842	5.792-5.892	5.842	0.000
13 alpha-Chlordane	5.967	5.966	5.967	5.966	5.966	5.966	5.967	5.967	5.917-6.017	5.967	0.000
14 Endosulfan I	6.099	6.099	6.099	6.098	6.099	6.098	6.099	6.099	6.049-6.149	6.099	0.000

Reviewer 1 AR Date: 10/4/2012
Reviewer 2 Date:

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 4,4'-DDE	6.027	6.026	6.026	6.026	6.027	6.026	6.027	6.027	5.977-6.077	6.027	0.000
16 Dieldrin	6.322	6.322	6.322	6.322	6.322	6.322	6.322	6.322	6.272-6.372	6.322	0.000
17 Endrin	6.540	6.541	6.540	6.539	6.540	6.539	6.540	6.540	6.490-6.590	6.540	0.000
18 4,4'-DDD	6.584	6.583	6.583	6.583	6.583	6.583	6.584	6.584	6.534-6.634	6.583	0.000
19 Endosulfan II	6.745	6.746	6.746	6.745	6.745	6.745	6.746	6.746	6.696-6.796	6.746	0.001
20 4,4'-DDT	6.841	6.842	6.841	6.841	6.841	6.841	6.842	6.842	6.792-6.892	6.841	0.001
21 Endrin aldehyde	7.123	7.124	7.123	7.123	7.124	7.123	7.123	7.123	7.073-7.173	7.123	0.000
22 Methoxychlor	7.271	7.271	7.270	7.270	7.271	7.270	7.271	7.271	7.221-7.321	7.270	0.000
23 Endosulfan sulfate	7.513	7.514	7.513	7.513	7.514	7.513	7.514	7.514	7.464-7.564	7.513	0.000
24 Endrin ketone	7.766	7.767	7.767	7.766	7.767	7.766	7.766	7.766	7.716-7.816	7.766	0.000
25 Decachlorobiphenyl	8.610	8.610	8.610	8.610	8.611	8.610	8.610	8.610	8.560-8.660	8.610	0.000
26 Aroclor-1016	++++	++++	++++	++++	++++	++++	++++	3.765	3.715-3.815	++++	++++
27 Aroclor-1221	++++	++++	++++	++++	++++	++++	++++	4.881	4.831-4.931	++++	++++
28 Aroclor-1232	++++	++++	++++	++++	++++	++++	++++	5.359	5.309-5.409	++++	++++
29 Aroclor-1242	++++	++++	++++	++++	++++	++++	++++	3.765	3.715-3.815	++++	++++
30 Aroclor-1248	++++	++++	++++	++++	++++	++++	++++	4.418	4.368-4.468	++++	++++
31 Aroclor-1254	++++	++++	++++	++++	++++	++++	++++	5.257	5.207-5.307	++++	++++
32 Aroclor-1260	++++	++++	++++	++++	++++	++++	++++	6.045	5.995-6.095	++++	++++
33 Aroclor-1262	++++	++++	++++	++++	++++	++++	++++	8.301	8.251-8.351	++++	++++
34 Aroclor-1268	++++	++++	++++	++++	++++	++++	++++	11.259	11.209-11.309	++++	++++
35 Toxaphene	++++	++++	++++	++++	++++	++++	++++	6.496	6.446-6.546	++++	++++
39 2,4-DDE	++++	++++	++++	++++	++++	++++	++++	5.703	5.653-5.753	++++	++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	++++	++++	++++	++++	++++	++++	++++	6.190	6.140-6.240	++++	++++
41 2,4-DDT	++++	++++	++++	++++	++++	++++	++++	6.429	6.379-6.479	++++	++++
42 Hexachloroethane	++++	++++	++++	++++	++++	++++	++++	1.738	1.688-1.788	++++	++++
43 Oxychlordane	++++	++++	++++	++++	++++	++++	++++	5.627	5.577-5.677	++++	++++
44 trans-Nonachlor	++++	++++	++++	++++	++++	++++	++++	5.951	5.901-6.001	++++	++++
45 cis-Nonachlor	++++	++++	++++	++++	++++	++++	++++	6.566	6.516-6.616	++++	++++
46 Mirex	++++	++++	++++	++++	++++	++++	++++	7.437	7.387-7.487	++++	++++
47 bis-(2-ethylhexyl) Pht	++++	++++	++++	++++	++++	++++	++++	20.156	20.106-20.206	++++	++++
59 Tech-Chlordane	++++	++++	++++	++++	++++	++++	++++	4.518	4.468-4.568	++++	++++
48 Trifluralin	++++	++++	++++	++++	++++	++++	++++	6.319	6.269-6.369	++++	++++
49 Dacthal	++++	++++	++++	++++	++++	++++	++++	9.936	9.886-9.986	++++	++++
50 Oxadiazon	++++	++++	++++	++++	++++	++++	++++	11.891	11.841-11.941	++++	++++
51 Kelthane	++++	++++	++++	++++	++++	++++	++++	14.827	14.777-14.877	++++	++++
53 Chlorpyrifos	++++	++++	++++	++++	++++	++++	++++	9.750	9.700-9.800	++++	++++
55 Methyl Parathion	++++	++++	++++	++++	++++	++++	++++	9.107	9.057-9.157	++++	++++
56 Ethyl Parathion	++++	++++	++++	++++	++++	++++	++++	10.251	10.201-10.301	++++	++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT06	RT07	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	1003A023	1003A024	1003A025	1003A026	1003A027	1003A028	1003A029	1003A028	1003A028	1003A028	1003A028	1003A029	1003A028	1003A029
INJ DATE:	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012	03-OCT-2012
INJ TIME:	19:37	19:55	20:12	20:30	20:48	21:06	21:06	20:48	20:48	21:06	21:06	21:06	21:06	21:06
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV			
1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.210	2.160-2.260	+++++	+++++			
* 54 1Bromo-2nitrobenzene	3.015	3.015	3.015	3.015	3.015	3.015	3.015	3.015	2.965-3.065	3.015	0.000			
* 58 Hexabromobiphenyl	8.750	8.750	8.750	8.750	8.750	8.750	8.750	8.750	8.700-8.800	8.750	0.000			
§ 2 Tetrachloro-m-xylene	3.670	3.670	3.670	3.670	3.670	3.670	3.670	3.670	3.620-3.720	3.670	0.000			
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.002	3.952-4.052	+++++	+++++			
4 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.147	4.097-4.197	+++++	+++++			
5 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.424	4.374-4.474	+++++	+++++			
6 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.497	4.447-4.547	+++++	+++++			
7 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.663	4.613-4.713	+++++	+++++			
8 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.862	4.812-4.912	+++++	+++++			
9 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.149	5.098-5.199	+++++	+++++			
38 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.577-13.677	+++++	+++++			
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.819-10.919	+++++	+++++			
11 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.723	5.673-5.773	+++++	+++++			
12 gamma-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.842	5.792-5.892	+++++	+++++			
13 alpha-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.967	5.917-6.017	+++++	+++++			
14 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.099	6.049-6.149	+++++	+++++			

Reviewer 1 AR Date: 10/4/2012
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXEC RT	RT WINDOW	AVG RT	STD DEV
15 4,4'-DDE	++++	++++	++++	++++	++++	++++	++++	6.027	5.977-6.077	++++	++++
16 Dieldrin	++++	++++	++++	++++	++++	++++	++++	6.322	6.272-6.372	++++	++++
17 Endrin	++++	++++	++++	++++	++++	++++	++++	6.540	6.490-6.590	++++	++++
18 4,4'-DDD	++++	++++	++++	++++	++++	++++	++++	6.584	6.534-6.634	++++	++++
19 Endosulfan II	++++	++++	++++	++++	++++	++++	++++	6.746	6.696-6.796	++++	++++
20 4,4'-DDT	++++	++++	++++	++++	++++	++++	++++	6.842	6.792-6.892	++++	++++
21 Endrin aldehyde	++++	++++	++++	++++	++++	++++	++++	7.123	7.073-7.173	++++	++++
22 Methoxychlor	++++	++++	++++	++++	++++	++++	++++	7.271	7.221-7.321	++++	++++
23 Endosulfan sulfate	++++	++++	++++	++++	++++	++++	++++	7.514	7.464-7.564	++++	++++
24 Endrin ketone	++++	++++	++++	++++	++++	++++	++++	7.766	7.716-7.816	++++	++++
25 Decachlorobiphenyl	8.610	8.610	8.610	8.610	8.610	8.610	8.610	8.610	8.560-8.660	8.610	0.000
26 Aroclor-1016	++++	++++	++++	++++	++++	++++	++++	3.765	3.715-3.815	++++	++++
27 Aroclor-1221	++++	++++	++++	++++	++++	++++	++++	4.881	4.831-4.931	++++	++++
28 Aroclor-1232	++++	++++	++++	++++	++++	++++	++++	5.359	5.309-5.409	++++	++++
29 Aroclor-1242	++++	++++	++++	++++	++++	++++	++++	3.765	3.715-3.815	++++	++++
30 Aroclor-1248	++++	++++	++++	++++	++++	++++	++++	4.418	4.368-4.468	++++	++++
31 Aroclor-1254	++++	++++	++++	++++	++++	++++	++++	5.257	5.207-5.307	++++	++++
32 Aroclor-1260	++++	++++	++++	++++	++++	++++	++++	6.045	5.995-6.095	++++	++++
33 Aroclor-1262	++++	++++	++++	++++	++++	++++	++++	8.301	8.251-8.351	++++	++++
34 Aroclor-1268	++++	++++	++++	++++	++++	++++	++++	11.259	11.209-11.309	++++	++++
35 Toxaphene	++++	++++	++++	++++	++++	++++	++++	6.496	6.446-6.546	++++	++++
39 2,4-DDE	5.704	5.704	5.704	5.703	5.703	5.704	5.703	5.703	5.653-5.753	5.703	0.000

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Batch File: /chem2/ecd6.i/20121003PEST.b/ical-1.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	6.191	6.191	6.191	6.191	6.191	6.190	6.190	6.190	6.140-6.240	6.191	0.000
41 2,4-DDT	6.429	6.429	6.429	6.429	6.429	6.429	6.429	6.429	6.379-6.479	6.429	0.000
42 Hexachloroethane	0.000	0.000	0.000	1.738	0.000	0.000	0.000	1.738	1.688-1.788	0.248	0.657
43 Oxychlorthane	5.627	5.627	5.627	5.627	5.627	5.627	5.627	5.627	5.577-5.677	5.627	0.000
44 trans-Nonachlor	5.951	5.951	5.951	5.951	5.950	5.951	5.951	5.951	5.901-6.001	5.951	0.000
45 cis-Nonachlor	6.567	6.567	6.567	6.566	6.567	6.566	6.566	6.566	6.516-6.616	6.567	0.000
46 Mirex	7.437	7.437	7.437	7.437	7.437	7.437	7.437	7.437	7.387-7.487	7.437	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.106-20.206	+++++	+++++
59 Tech-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.518	4.468-4.568	+++++	+++++
48 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.269-6.369	+++++	+++++
49 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.886-9.986	+++++	+++++
50 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.841-11.941	+++++	+++++
51 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.777-14.877	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.700-9.800	+++++	+++++
55 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.057-9.157	+++++	+++++
56 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.201-10.301	+++++	+++++

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	5287634	4060064	-23.2
Hexabromobiphenyl	5848031	3748709	-35.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	23737838	21032891	-11.4
Hexabromobiphenyl	17554181	14864285	-15.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20121003PEST

Analysis Date: 03-OCT-2012 15:10

Init. Calib. Date: 03-OCT-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	6.028	129828
Endrin	6.540	4737698
4,4'-DDD	6.583	154711
4,4'-DDT	6.842	4383976
Endrin ketone	7.767	279182
Endrin aldehyde	7.124	83451

DDT Percent Breakdown = 6.1 %
((129828+154711) * 100) / (129828+154711+4383976)

Endrin Percent Breakdown = 7.1 %
((83451+279182) * 100) / (83451+279182+4737698)

GC Column: STX-CLP2 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	6.744	694290
Endrin	7.227	20939129
4,4'-DDD	7.282	1150787
4,4'-DDT	7.570	21036406
Endrin ketone	8.447	1215962
Endrin aldehyde	7.715	480634

DDT Percent Breakdown = 8.1 %
((694290+1150787) * 100) / (694290+1150787+21036406)

Endrin Percent Breakdown = 7.5 %
((480634+1215962) * 100) / (480634+1215962+20939129)

Form VII Pest-1

VR82: 01290

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A010.d ARI ID: IB
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A010.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 15:27
 Compound Sublist: wpest Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.001 4103626	3.195 0.000 20811653	3.195	0.000 20811653	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
----		4.606 0.021 1044	4.606	0.021 1044	0.0000	0.0023	---	alpha-BHC
----		5.050 0.043 7493	5.050	0.043 7493	0.0000	0.0408	---	beta-BHC
----		5.327 0.013 3004	5.327	0.013 3004	0.0000	0.0083	---	delta-BHC
----		4.925 -0.011 4608	4.925	-0.011 4608	0.0000	0.0112	---	gamma-BHC (Lindane)
4.847	-0.014 1134	----	----	----	0.0178	0.0000	---	Heptachlor
----		5.732 -0.003 56026	5.732	-0.003 56026	0.0000	0.1516	---	Aldrin
----		6.311 0.017 4705	6.311	0.017 4705	0.0000	0.0141	---	Heptachlor epoxide b
----		6.648 -0.032 2563	6.648	-0.032 2563	0.0000	0.0086	---	Endosulfan I
----		6.967 0.028 1742	6.967	0.028 1742	0.0000	0.0055	---	Dieldrin
----		6.744 -0.002 6369	6.744	-0.002 6369	0.0000	0.0211	---	4,4'-DDE
----		7.199 -0.029 2168	7.199	-0.029 2168	0.0000	0.0085	---	Endrin
----		7.421 0.005 1443	7.421	0.005 1443	0.0000	0.0056	---	Endosulfan II
----		7.281 -0.002 4668	7.281	-0.002 4668	0.0000	0.0193	---	4,4'-DDD
----		7.994 0.034 1856	7.994	0.034 1856	0.0000	0.0086	---	Endosulfan sulfate
----		7.573 0.002 10627	7.573	0.002 10627	0.0000	0.0463	---	4,4'-DDT
----		8.183 0.025 3290	8.183	0.025 3290	0.0000	0.0336	---	Methoxychlor
7.762	-0.004 12452	8.451 0.002 2651	8.451	0.002 2651	0.2547	0.0124	181.5*	Endrin ketone
7.125	0.001 1590	7.708 -0.007 3978	7.708	-0.007 3978	0.0397	0.0198	67.0*	Endrin aldehyde
5.794	-0.048 5701	6.484 0.008 17598	6.484	0.008 17598	0.0914	0.0506	57.4*	gamma-Chlordane
----		6.625 0.010 2169	6.625	0.010 2169	0.0000	0.0067	---	alpha-Chlordane
2.229	0.019 5725	2.368 -0.009 2576	2.368	-0.009 2576	0.0618	0.0057	166.2*	Hexachlorobutadiene
4.001	-0.001 27480	4.458 0.001 5327	4.458	0.001 5327	0.4109	0.0136	187.2*	Hexachlorobenzene
----		6.231 0.028 4801	6.231	0.028 4801	0.0000	0.0181	---	Oxychlorane
----		6.440 -0.014 1990	6.440	-0.014 1990	0.0000	0.0104	---	2,4-DDE
5.956	0.005 1123	6.570 0.009 1716	6.570	0.009 1716	0.0202	0.0056	113.4*	trans-Nonachlor
----		6.936 -0.003 1182	6.936	-0.003 1182	0.0000	0.0071	---	2,4-DDD
----		7.225 -0.002 6574	7.225	-0.002 6574	0.0000	0.0363	---	2,4-DDT
----		----	----	----	0.0000	0.0000	---	cis-Nonachlor
----		8.423 -0.011 6159	8.423	-0.011 6159	0.0000	0.0346	---	Mirex
8.750	0.000 3763922	10.106 0.001 14817201	10.106	0.001 14817201	80.0000	80.0000	0.0	Hexabromobiphenyl
1.738	0.000 778151	1.701 -0.027 1065269	1.701	-0.027 1065269	0.0000	0.0000	---	Hexachloroethane
3.670	0.000 2058750	4.007 0.000 12255032	4.007	0.000 12255032	33.8582	33.8790	0.1	Tetrachloro-m-xylen
8.610	0.000 1611572	9.566 0.000 7450885	9.566	0.000 7450885	32.0375	32.7016	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

VR82: 01292

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	84.6	84.7	84.6~	130- 0
Decachlorobiphenyl	80.1	81.8	80.1~	130- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4103626	1.1
Hexabromobiphenyl	3748709	3763922	0.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	20811653	-1.1
Hexabromobiphenyl	14864285	14817201	-0.3

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	---			0.000	1	7.134	-0.030	3928	0.441
Toxaphene	2	---			0.000	2	7.459	-0.029	100077	7.603
Toxaphene	3	---			0.000	3	7.708	-0.011	3978	0.270
Toxaphene	4	---			0.000	4	8.183	-0.002	3290	0.299
Toxaphene	5	---			0.000	5	8.575	0.042	2632	0.510
Toxaphene	6	---			0.000	NS	---			---
STX-CLPAve: <3 Quant Peaks						CLP2Ave: 1.825				
Aroclor-1016	1	---			0.000	1	---			0.000
Aroclor-1016	2	---			0.000	2	---			0.000
Aroclor-1016	3	---			0.000	3	---			0.000
Aroclor-1016	4	---			0.000	4	---			0.000
Aroclor-1016	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.000	1	---			0.000
Aroclor-1221	2	---			0.000	2	---			0.000
Aroclor-1221	3	---			0.000	3	---			0.000
Aroclor-1221	4	---			0.000	4	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.000	1	---			0.000
Aroclor-1232	2	---			0.000	2	---			0.000
Aroclor-1232	3	---			0.000	3	---			0.000
Aroclor-1232	4	---			0.000	4	---			0.000
Aroclor-1232	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.000	1	---			0.000
Aroclor-1242	2	---			0.000	2	---			0.000
Aroclor-1242	3	---			0.000	3	---			0.000
Aroclor-1242	4	---			0.000	4	---			0.000
Aroclor-1242	5	---			0.000	5	---			0.000
Aroclor-1242	6	---			0.000	NS	---			---

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1	---	0.000	1	---	0.000
Aroclor-1248 2	---	0.000	2	---	0.000
Aroclor-1248 3	---	0.000	3	---	0.000
Aroclor-1248 4	---	0.000	4	---	0.000
Aroclor-1248 5	---	0.000	5	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1	---	0.000	1	---	0.000
Aroclor-1254 2	---	0.000	2	---	0.000
Aroclor-1254 3	---	0.000	3	---	0.000
Aroclor-1254 4	---	0.000	4	---	0.000
Aroclor-1254 5	---	0.000	5	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1	---	0.000	1	---	0.000
Aroclor-1260 2	---	0.000	2	---	0.000
Aroclor-1260 3	---	0.000	3	---	0.000
Aroclor-1260 4	---	0.000	4	---	0.000
Aroclor-1260 5	---	0.000	5	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1	---	0.000	1	---	0.000
Aroclor-1262 2	---	0.000	2	---	0.000
Aroclor-1262 3	---	0.000	3	---	0.000
Aroclor-1262 4	---	0.000	4	---	0.000
Aroclor-1262 5	---	0.000	5	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1	---	0.000	1	---	0.000
Aroclor-1268 2	---	0.000	2	---	0.000
Aroclor-1268 3	---	0.000	3	---	0.000
Aroclor-1268 4	---	0.000	4	---	0.000
Aroclor-1268 5	---	0.000	5	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A011.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A011.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 15:45
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.001 4243841	3.195 0.000 21862472	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	0.000 1535379	4.585 -0.001 9334218	19.4134	19.5713	0.8	alpha-BHC
4.497	0.000 596591	5.006 -0.001 3588059	17.8451	18.5881	4.1	beta-BHC
4.663	0.000 1239100	5.314 0.000 7494896	19.4365	19.8100	1.9	delta-BHC
4.424	0.000 1386207	4.936 0.000 8315328	19.0776	19.2863	1.1	gamma-BHC (Lindane)
4.862	0.000 1226891	5.396 -0.001 7484260	18.6231	18.9596	1.8	Heptachlor
5.148	0.000 1262811	5.735 0.000 7333340	18.7699	18.8925	0.7	Aldrin
5.723	0.000 1184994	6.293 0.000 6529772	18.2719	18.6610	2.1	Heptachlor epoxide b
6.100	0.000 1099475	6.680 -0.001 5919132	18.3195	18.8375	2.8	Endosulfan I
6.322	0.000 2324426	6.938 -0.001 12283565	37.4681	36.9536	1.4	Dieldrin
6.027	0.000 2169789	6.744 -0.001 11760541	37.8807	37.1061	2.1	4,4'-DDE
6.540	0.000 2029056	7.227 -0.001 9904255	37.9835	37.1704	2.2	Endrin
6.746	0.000 1884435	7.416 -0.001 9816223	36.5308	36.8560	0.9	Endosulfan II
6.583	-0.001 1762343	7.282 -0.001 9472208	37.7821	37.6409	0.4	4,4'-DDD
7.514	0.000 1614928	7.959 -0.001 8479989	37.1938	37.8644	1.8	Endosulfan sulfate
6.842	-0.001 1782695	7.570 -0.001 8981049	38.0103	37.5030	1.3	4,4'-DDT
7.271	0.000 4047645	8.156 -0.003 16738737	176.5215	163.8318	7.5	Methoxychlor
7.767	0.000 1835612	8.447 -0.001 8111794	36.1518	36.2597	0.3	Endrin ketone
7.124	0.000 1530357	7.715 0.000 7757642	36.7869	36.9986	0.6	Endrin aldehyde
5.843	0.000 1188786	6.475 -0.001 6799397	18.4345	18.6266	1.0	gamma-Chlordane
5.967	0.000 1137815	6.614 -0.001 6371726	18.2823	18.7211	2.4	alpha-Chlordane
2.210	0.000 1744880	2.376 -0.001 8172185	18.2043	17.2169	5.6	Hexachlorobutadiene
4.002	0.000 1221989	4.458 0.000 7455036	17.6689	18.1647	2.8	Hexachlorobenzene
8.750	0.000 3909614	10.105 0.000 15444423	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 2292564	4.007 -0.001 13637228	36.4578	35.8881	1.6	Tetrachloro-m-xylene
8.610	0.000 1795027	9.565 -0.001 8328108	34.3548	35.0673	2.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	91.1	89.7	89.7~	115- 0
Decachlorobiphenyl	85.9	87.7	85.9~	115- 0

~ Indicates recovery outside QC Limits

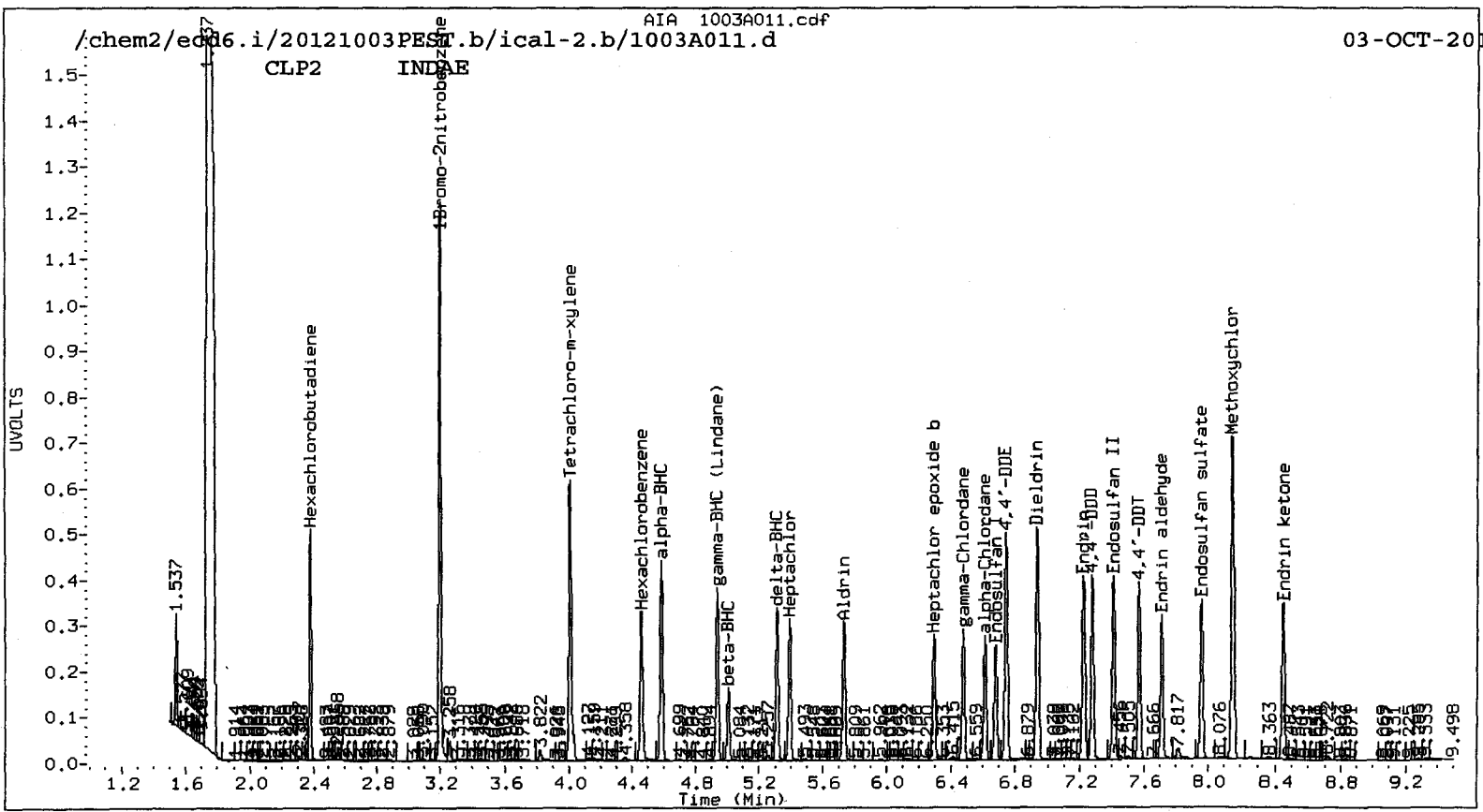
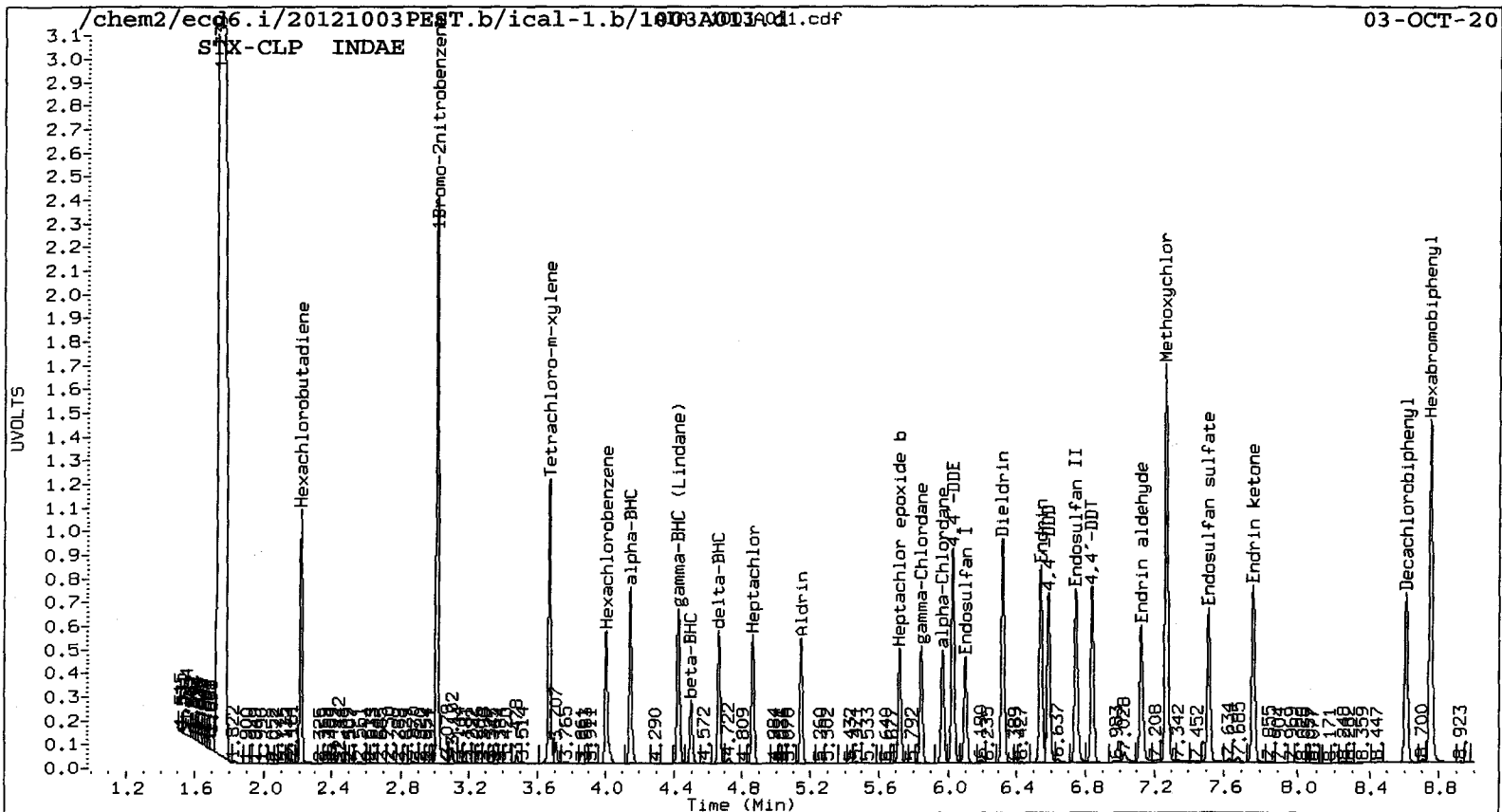
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4243841	4.5
Hexabromobiphenyl	3748709	3909614	4.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21862472	3.9
Hexabromobiphenyl	14864285	15444423	3.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



4582 : 01200

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A012.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A012.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 16:03
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
---		1.735 0.007 79644381	0.0000	0.0000	---	Hexachloroethane
3.015	0.000 3953778	3.195 0.000 20286067	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.628	0.000 1783657	6.203 0.000 10156774	39.2013	39.2626	0.2	Oxychlorane
5.704	0.001 1320612	6.454 0.000 7104051	39.4894	37.9736	3.9	2,4-DDE
5.951	0.000 2146506	6.560 -0.001 11964879	39.6099	39.4503	0.4	trans-Nonachlor
6.191	0.001 1168742	6.939 0.001 6346802	39.0122	38.8494	0.4	2,4-DDD
6.430	0.001 1318802	7.227 0.000 6909377	38.8886	38.7669	0.3	2,4-DDT
6.567	0.001 2299347	7.286 0.000 12452499	40.0572	39.2683	2.0	cis-Nonachlor
7.438	0.001 1439082	8.434 0.001 6440095	37.6639	36.7312	2.5	Mirex
8.751	0.001 3659278	10.106 0.001 14586432	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 1919385	4.007 -0.001 11829871	32.7625	33.5510	2.4	Tetrachloro-m-xylene
8.610	0.000 1534597	9.566 0.000 7180154	31.3797	32.0120	2.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	81.9	83.9	81.9~	150- 0
Decachlorobiphenyl	78.4	80.0	78.4~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

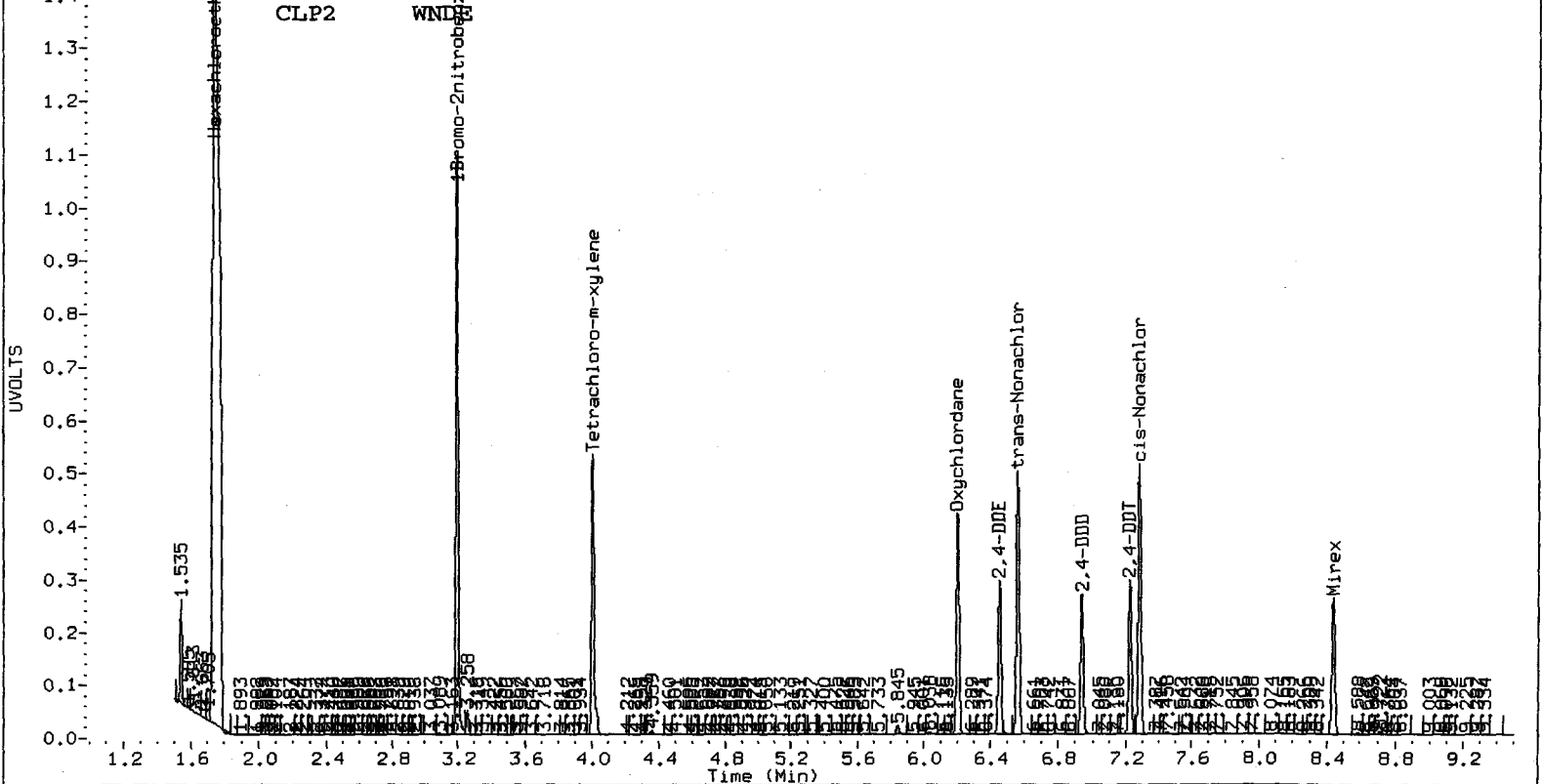
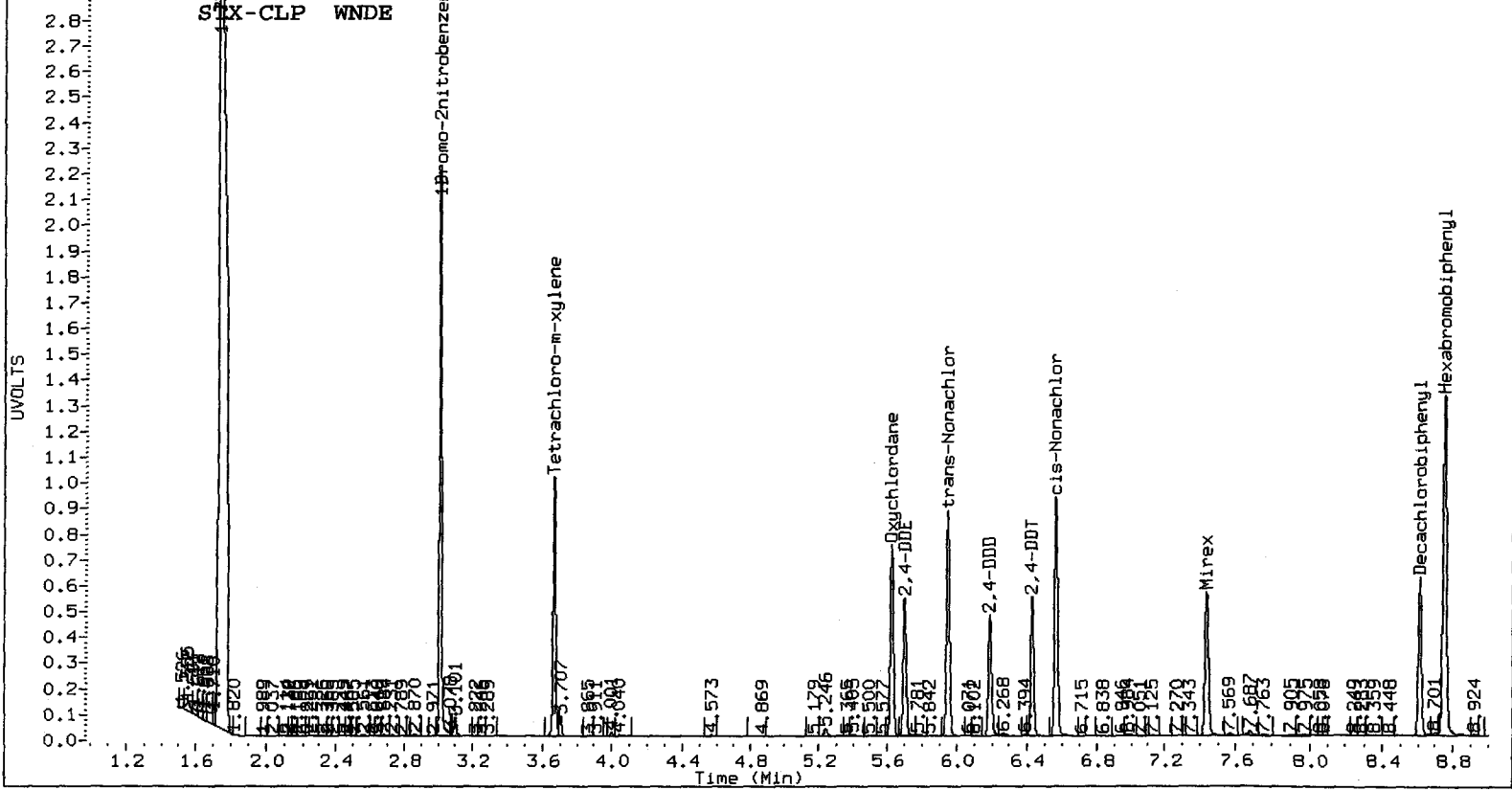
Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	3953778	-2.6
Hexabromobiphenyl	3748709	3659278	-2.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	20286067	-3.6
Hexabromobiphenyl	14864285	14586432	-1.9

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	4060064	0.0
Hexabromobiphenyl	3748709	3748709	0.0

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	21032891	0.0
Hexabromobiphenyl	14864285	14864285	0.0

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

STX-CLP Col					CLP2 Col					
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A014.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A014.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 16:39
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4060064	3.195 0.000 21032891	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	0.000 1520984	4.584 -0.001 9260940	20.1019	20.1835	0.4	alpha-BHC
4.497	0.000 592449	5.007 0.000 3547307	18.5233	19.1018	3.1	beta-BHC
4.663	0.000 1226976	5.314 -0.001 7429371	20.1175	20.4114	1.5	delta-BHC
4.424	0.000 1375521	4.936 0.000 8261538	19.7874	19.9173	0.7	gamma-BHC (Lindane)
4.862	0.000 1222118	5.397 0.000 7442945	19.3904	19.5986	1.1	Heptachlor
5.148	0.000 1255499	5.735 0.000 7405273	19.5059	19.8303	1.6	Aldrin
5.723	0.000 1188428	6.293 0.000 6511616	19.1544	19.3431	1.0	Heptachlor epoxide b
6.099	0.000 1093516	6.680 -0.001 5876753	19.0450	19.4404	2.1	Endosulfan I
6.322	0.000 2314732	6.938 -0.001 12264975	39.0008	38.3530	1.7	Dieldrin
6.027	0.000 2157945	6.744 -0.001 11722458	39.3792	38.4447	2.4	4,4'-DDE
6.540	0.000 2016318	7.228 0.000 9872960	39.3652	38.4991	2.2	Endrin
6.745	-0.001 1906317	7.416 -0.001 9793607	38.5412	38.2062	0.9	Endosulfan II
6.584	0.000 1753499	7.282 -0.001 9447717	39.2061	39.0088	0.5	4,4'-DDD
7.513	0.000 1604029	7.960 0.000 8413226	38.5285	39.0325	1.3	Endosulfan sulfate
6.841	-0.001 1774418	7.571 0.000 9013742	39.4578	39.1085	0.9	4,4'-DDT
7.271	0.000 4037595	8.156 -0.003 16702852	183.6412	169.8610	7.8	Methoxychlor
7.766	0.000 1813756	8.448 -0.001 8119226	37.2546	37.7094	1.2	Endrin ketone
7.123	0.000 1512891	7.715 0.000 7706684	37.9281	38.1901	0.7	Endrin aldehyde
5.843	0.000 1178085	6.475 -0.001 6818550	19.0955	19.4158	1.7	gamma-Chlordane
5.967	0.000 1131738	6.614 -0.001 6335027	19.0077	19.3474	1.8	alpha-Chlordane
2.210	0.000 1729192	2.376 -0.001 8724669	18.8572	19.1059	1.3	Hexachlorobutadiene
4.002	-0.001 1214867	4.458 0.000 7404274	18.3610	18.7525	2.1	Hexachlorobenzene
8.750	0.000 3748709	10.105 0.000 14864285	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 2291209	4.007 -0.001 13613609	38.0855	37.2389	2.2	Tetrachloro-m-xylene
8.610	0.000 1786536	9.565 -0.001 8314170	35.6599	36.3750	2.0	Decachlorobiphenyl

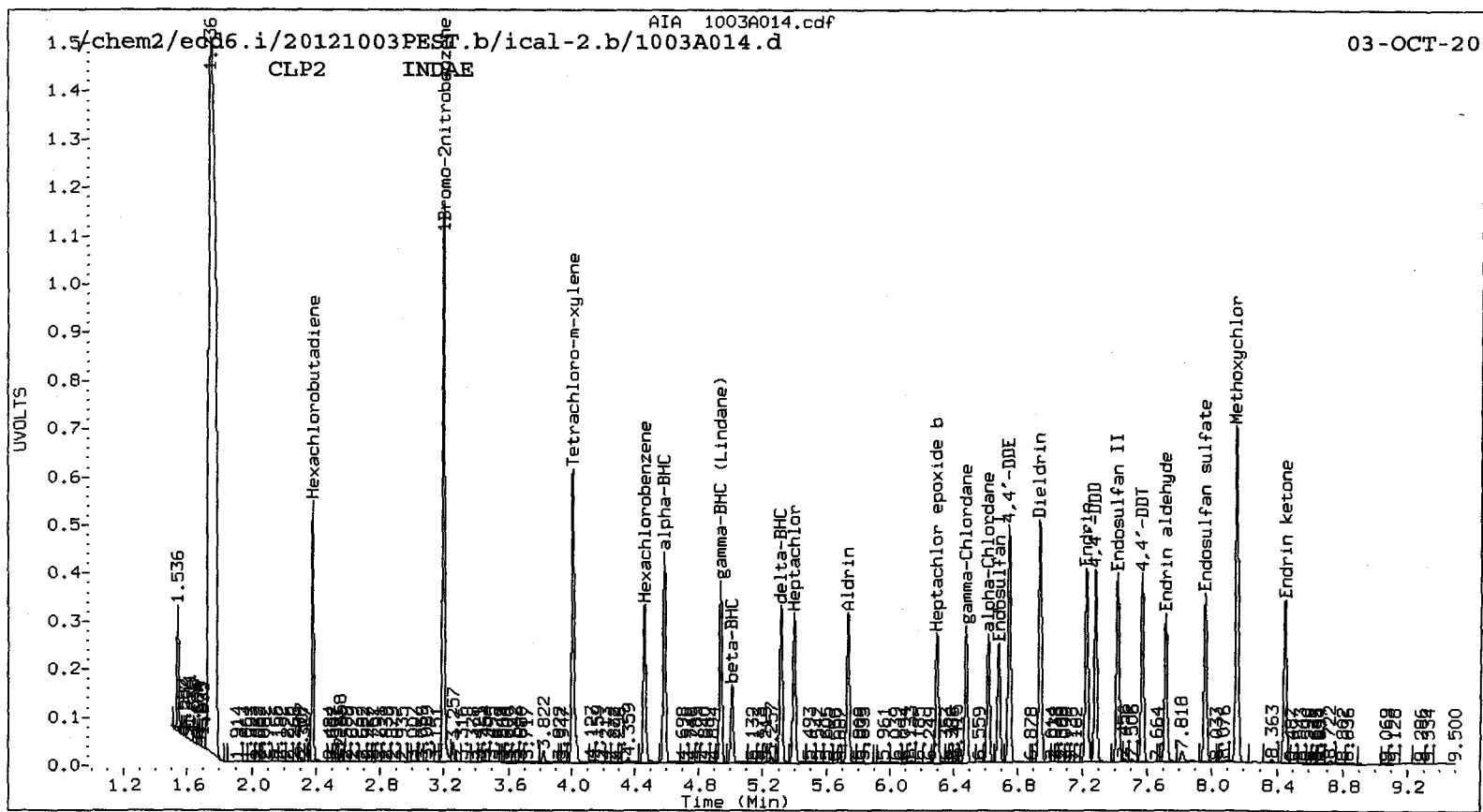
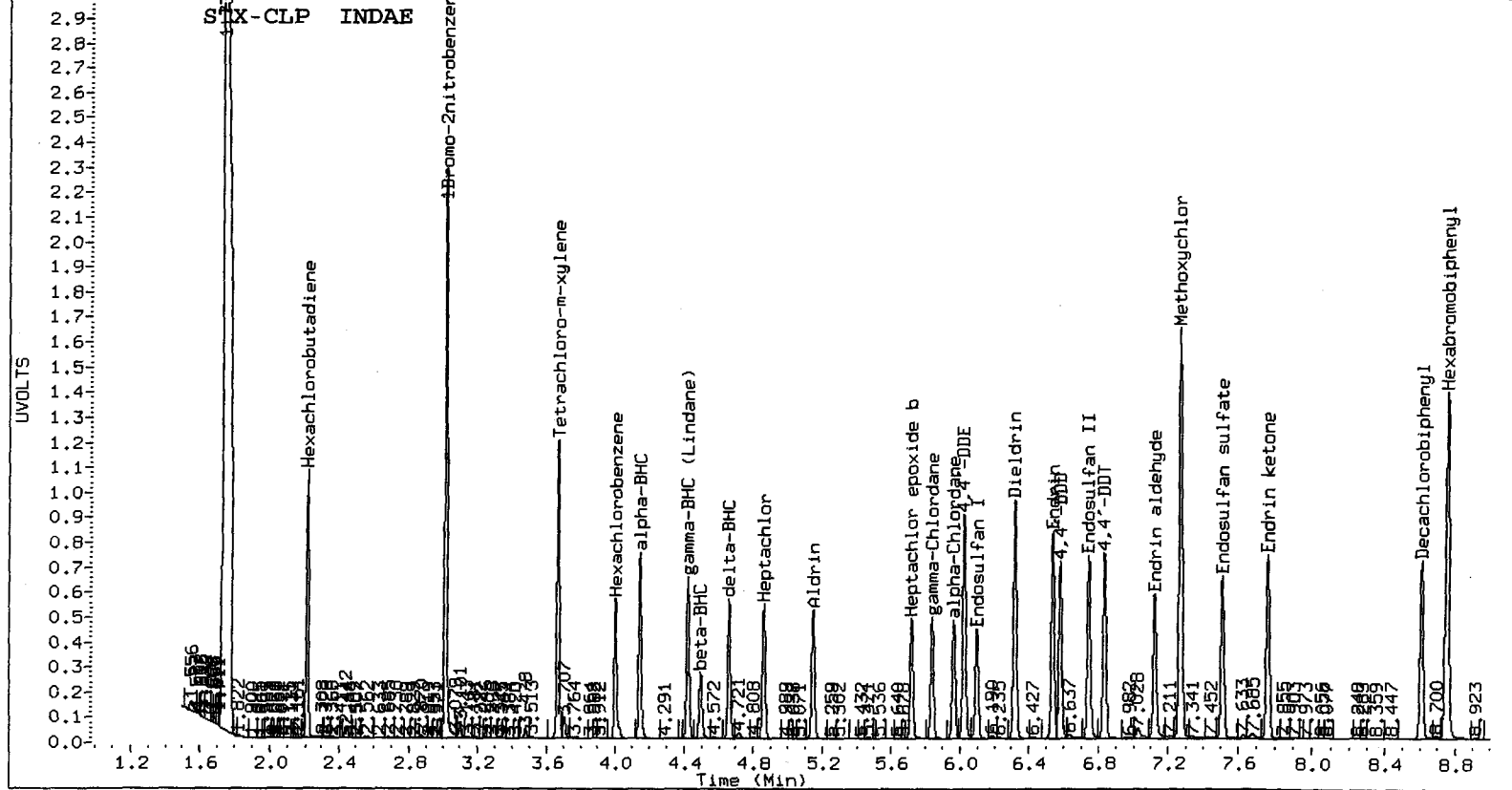
* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	95.2	93.1	93.1~	115- 0
Decachlorobiphenyl	89.1	90.9	89.1~	115- 0

~ Indicates recovery outside QC Limits



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A015.d ARI ID: INDAA
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A015.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 16:56
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.015	0.000	4049993	3.195	0.000	21107593	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.146	-0.001	93884	4.584	-0.002	562924	1.2439	1.2225	1.7	alpha-BHC
4.497	0.000	47557	5.006	0.000	260073	1.4906	1.3955	6.6	beta-BHC
4.663	0.000	76106	5.314	-0.001	440464	1.2509	1.2058	3.7	delta-BHC
4.424	0.000	89876	4.936	-0.001	530805	1.2961	1.2752	1.6	gamma-BHC (Lindane)
4.861	-0.001	86756	5.396	-0.001	522957	1.3799	1.3722	0.6	Heptachlor
5.148	-0.001	87853	5.734	-0.002	499986	1.3683	1.3342	2.5	Aldrin
5.723	-0.001	89298	6.292	-0.001	477430	1.4428	1.4132	2.1	Heptachlor epoxide b
6.099	0.000	82306	6.679	-0.001	418782	1.4370	1.3804	4.0	Endosulfan I
6.322	0.000	160686	6.938	-0.001	896482	2.7141	2.7934	2.9	Dieldrin
6.026	-0.001	145661	6.744	-0.002	857369	2.6647	2.8019	5.0	4,4'-DDE
6.541	0.000	138350	7.227	-0.001	729719	2.7114	2.8817	6.1	Endrin
6.746	0.000	138657	7.416	0.000	727966	2.8140	2.8760	2.2	Endosulfan II
6.583	-0.001	120429	7.282	-0.001	657884	2.7029	2.7509	1.8	4,4'-DDD
7.514	0.000	115041	7.959	-0.001	586419	2.7738	2.7553	0.7	Endosulfan sulfate
6.842	0.000	118090	7.571	0.000	617572	2.6360	2.7136	2.9	4,4'-DDT
7.271	0.000	325509	8.156	-0.003	1511810	14.8616	15.5702	4.7	Methoxychlor
7.767	0.000	142891	8.447	-0.001	617171	2.9462	2.9029	1.5	Endrin ketone
7.124	0.001	114936	7.715	0.000	577314	2.8924	2.8973	0.2	Endrin aldehyde
5.842	0.000	87280	6.475	-0.001	493222	1.4182	1.3995	1.3	gamma-Chlordane
5.966	-0.001	84983	6.613	-0.002	453148	1.4309	1.3790	3.7	alpha-Chlordane
2.209	-0.001	131702	2.376	-0.002	647910	1.4398	1.4138	1.8	Hexachlorobutadiene
4.002	-0.001	100639	4.457	-0.001	586197	1.5248	1.4794	3.0	Hexachlorobenzene
8.750	0.000	3734455	10.106	0.000	14677423	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	-0.001	170349	4.006	-0.001	1089161	2.8387	2.9688	4.5	Tetrachloro-m-xylene
8.610	0.000	162102	9.565	-0.001	707591	3.2480	3.1352	3.5	Decachlorobiphenyl

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	7.1	7.4	7.1~	115- 0
Decachlorobiphenyl	8.1	7.8	7.8~	115- 0

~ Indicates recovery outside QC Limits

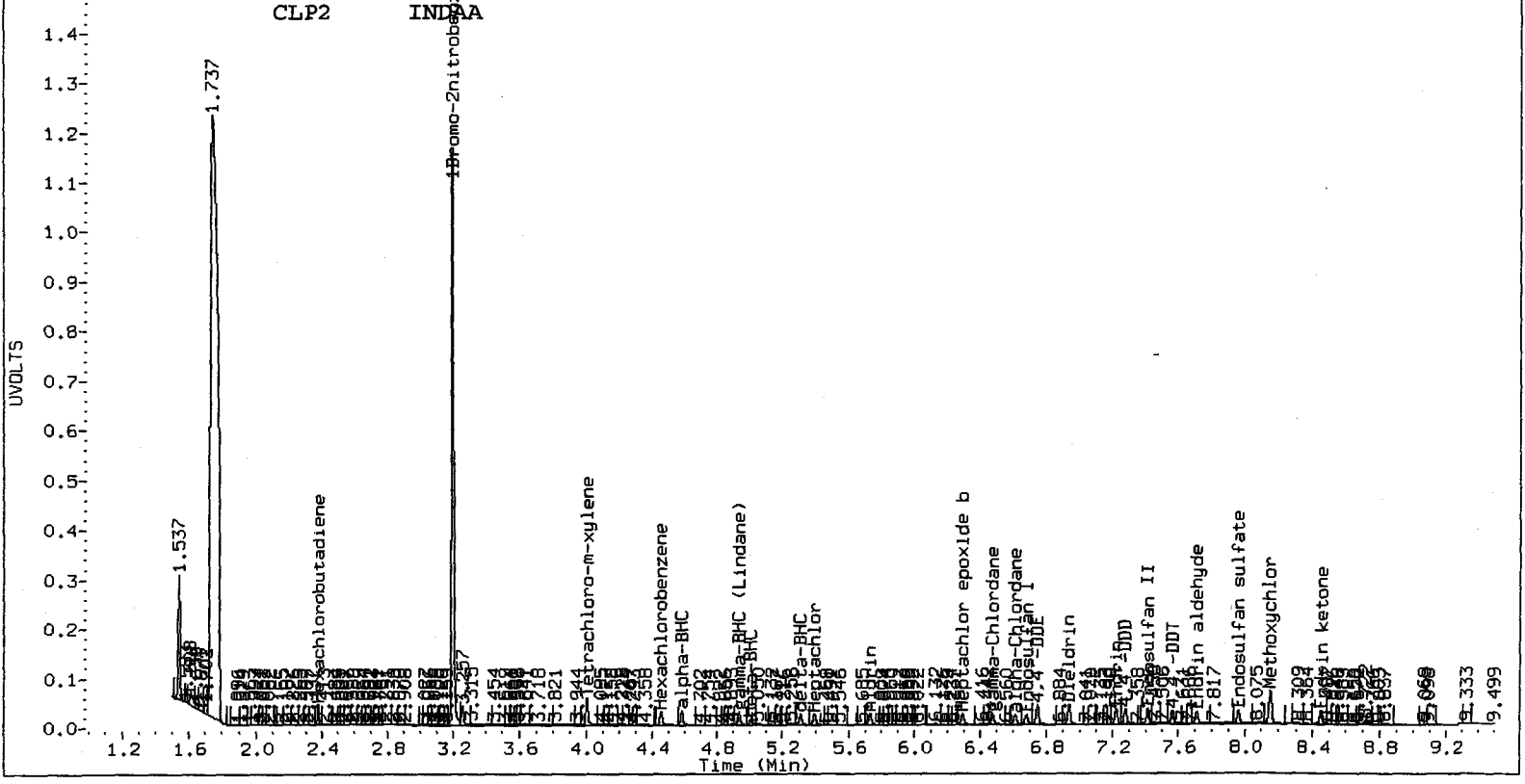
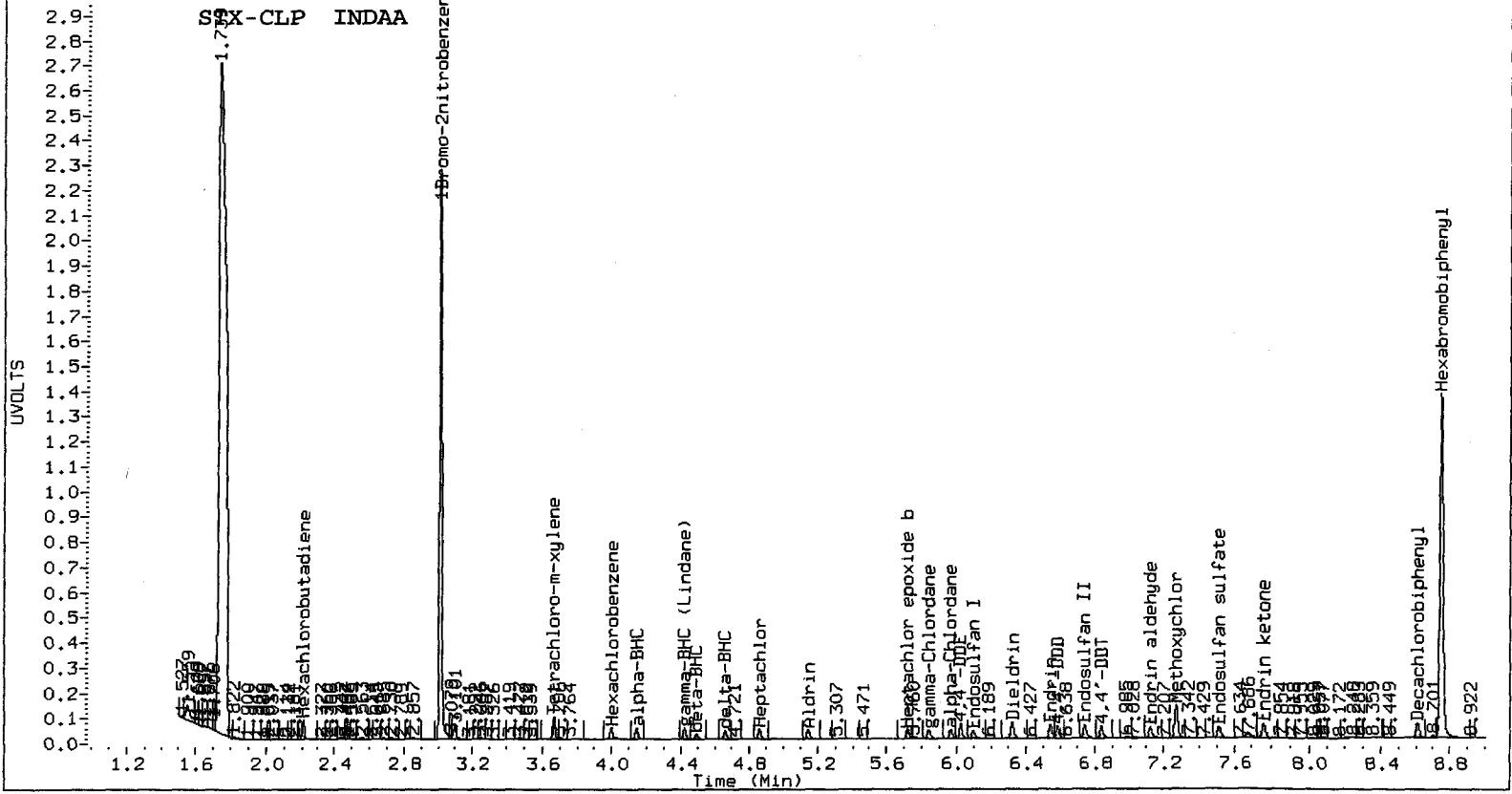
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4049993	-0.2
Hexabromobiphenyl	3748709	3734455	-0.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21107593	0.4
Hexabromobiphenyl	14864285	14677423	-1.3

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A016.d ARI ID: INDAB
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A016.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 17:14
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.015	0.000	4090558	3.195	0.000	21416427	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	0.000	186830	4.584	-0.001	1159721	2.4508	2.4823	1.3	alpha-BHC
4.497	0.000	88560	5.006	0.000	502406	2.7482	2.6569	3.4	beta-BHC
4.662	0.000	149622	5.313	-0.001	914469	2.4349	2.4674	1.3	delta-BHC
4.424	0.000	175589	4.936	-0.001	1073758	2.5071	2.5423	1.4	gamma-BHC (Lindane)
4.861	-0.001	165386	5.396	-0.002	1036329	2.6045	2.6800	2.9	Heptachlor
5.148	-0.001	167386	5.734	-0.001	1002480	2.5812	2.6364	2.1	Aldrin
5.722	-0.001	167624	6.292	-0.001	937162	2.6815	2.7340	1.9	Heptachlor epoxide b
6.099	0.000	155015	6.679	-0.001	832530	2.6797	2.7047	0.9	Endosulfan I
6.322	0.000	311998	6.937	-0.002	1791502	5.2176	5.5018	5.3	Dieldrin
6.026	-0.001	283514	6.744	-0.002	1712186	5.1351	5.5147	7.1	4,4'-DDE
6.540	0.000	268106	7.227	-0.001	1445065	5.2022	5.5693	6.8	Endrin
6.746	0.000	265666	7.415	-0.001	1431354	5.3382	5.5188	3.3	Endosulfan II
6.583	-0.001	233750	7.281	-0.002	1323868	5.1943	5.4024	3.9	4,4'-DDD
7.513	0.000	220973	7.959	-0.001	1168728	5.2752	5.3590	1.6	Endosulfan sulfate
6.841	-0.001	231047	7.570	-0.001	1231411	5.1063	5.2805	3.4	4,4'-DDT
7.270	0.000	617347	8.155	-0.003	2839505	27.9065	28.5399	2.2	Methoxychlor
7.767	0.000	262984	8.447	-0.002	1192839	5.3686	5.4755	2.0	Endrin ketone
7.123	0.000	217465	7.714	-0.001	1123507	5.4184	5.5026	1.5	Endrin aldehyde
5.842	0.000	163766	6.475	-0.001	958063	2.6347	2.6792	1.7	gamma-Chlordane
5.967	0.000	159239	6.613	-0.001	892745	2.6545	2.6777	0.9	alpha-Chlordane
2.210	0.000	248019	2.376	-0.001	1264510	2.6845	2.7195	1.3	Hexachlorobutadiene
4.001	-0.001	185775	4.458	0.000	1113449	2.7868	2.7695	0.6	Hexachlorobenzene
8.750	0.000	3771845	10.106	0.001	15039648	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000	327208	4.007	-0.001	2119369	5.3984	5.6935	5.3	Tetrachloro-m-xylene
8.610	0.000	288613	9.565	-0.001	1317447	5.7255	5.6967	0.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	13.5	14.2	13.5~	115- 0
Decachlorobiphenyl	14.3	14.2	14.2~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4090558	0.8
Hexabromobiphenyl	3748709	3771845	0.6

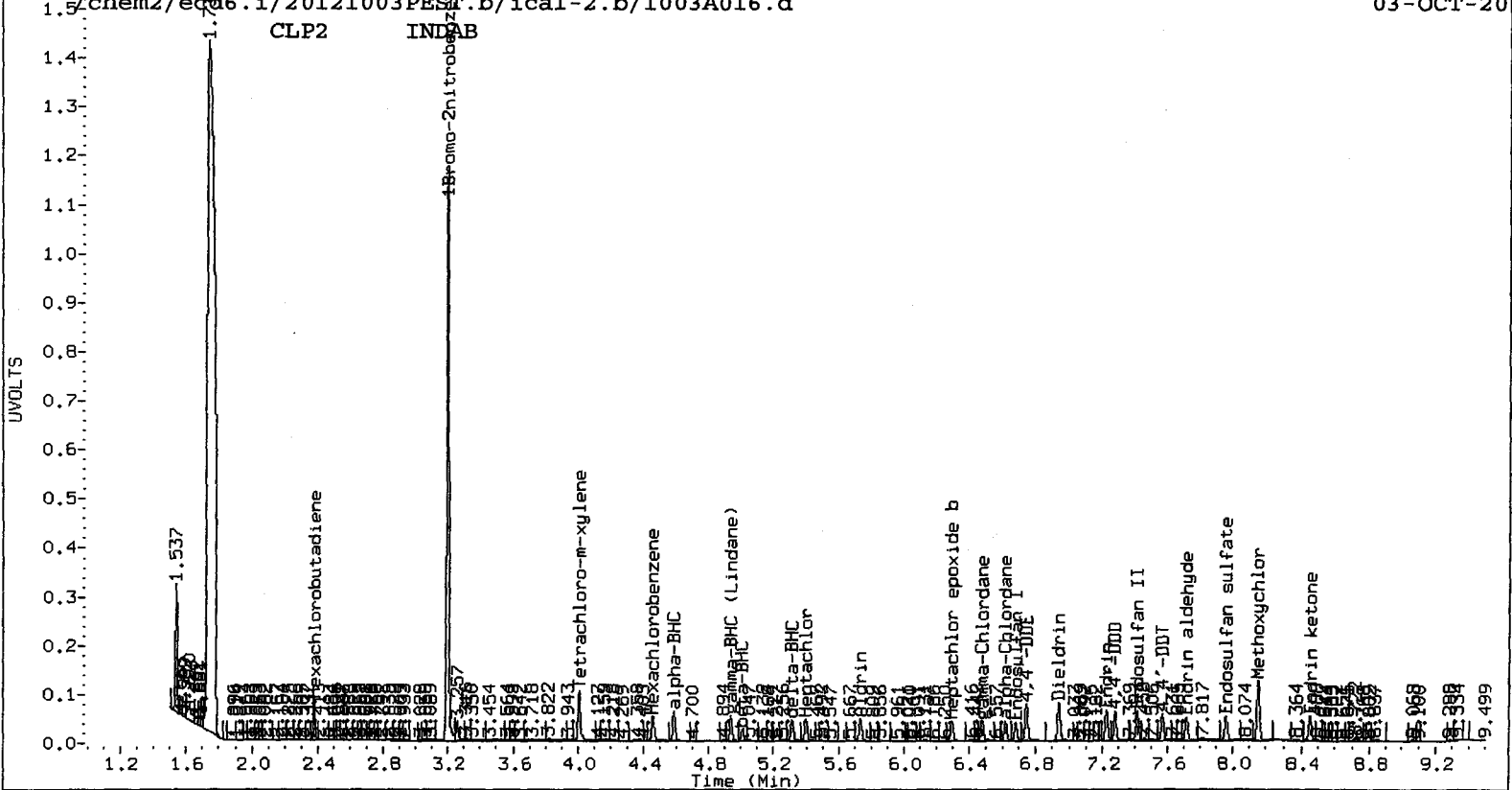
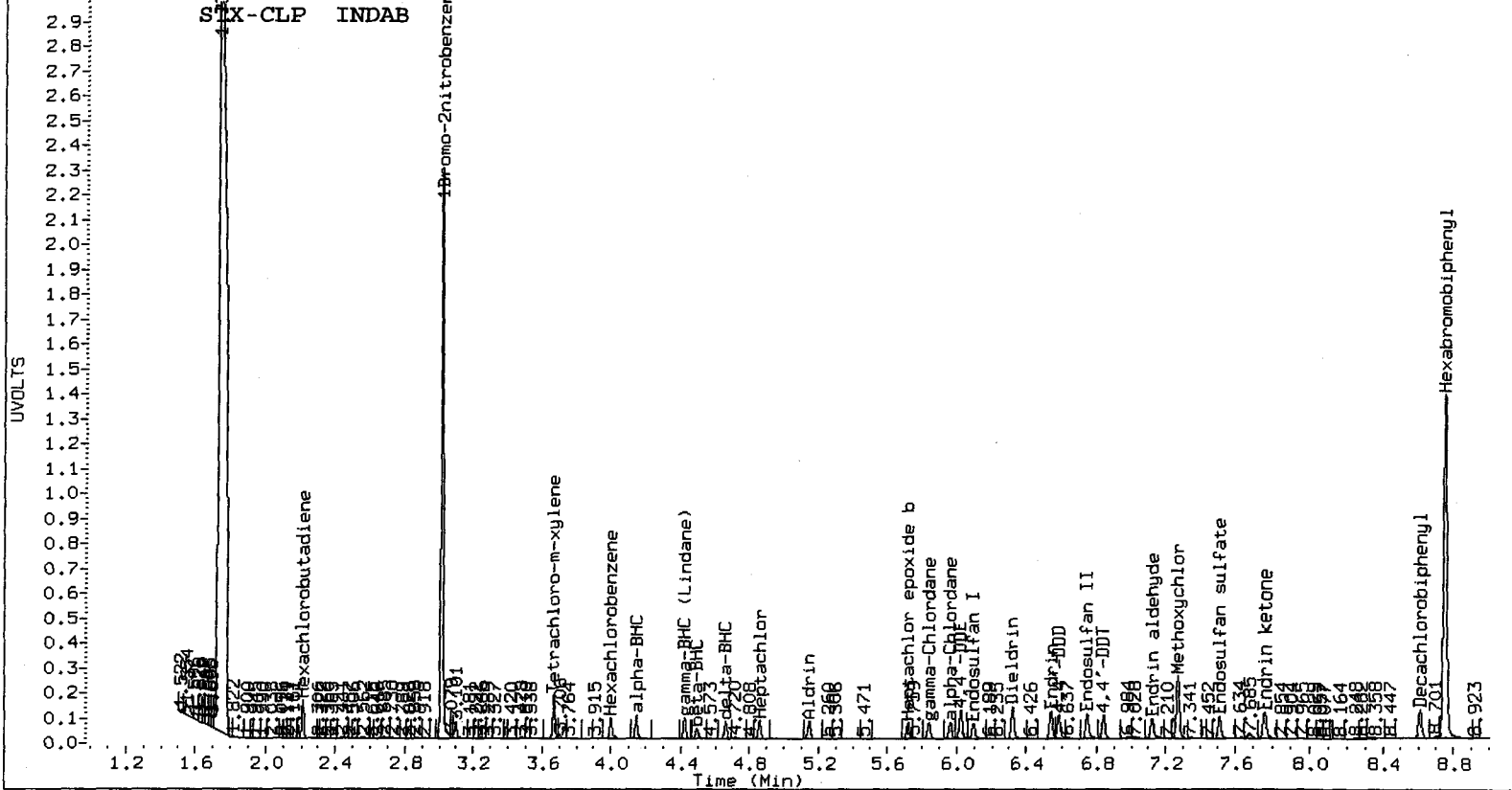
Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21416427	1.8
Hexabromobiphenyl	14864285	15039648	1.2

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A017.d ARI ID: INDAC
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A017.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 17:32
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4021073	3.195 0.000 21029129	3.195	0.000 21029129	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.146	-0.001 375418	4.584 -0.002 2371492	4.584	-0.002 2371492	5.0098	5.1694	3.1	alpha-BHC
4.497	0.000 165087	5.006 -0.001 985656	5.006	-0.001 985656	5.2116	5.3086	1.8	beta-BHC
4.662	0.000 296217	5.313 -0.001 1853943	5.313	-0.001 1853943	4.9039	5.0944	3.8	delta-BHC
4.424	0.000 345955	4.936 -0.001 2152238	4.936	-0.001 2152238	5.0250	5.1896	3.2	gamma-BHC (Lindane)
4.861	-0.001 317990	5.396 -0.001 2038451	5.396	-0.001 2038451	5.0942	5.3686	5.2	Heptachlor
5.147	-0.001 324084	5.734 -0.002 1987702	5.734	-0.002 1987702	5.0839	5.3237	4.6	Aldrin
5.722	-0.001 317055	6.292 -0.001 1812761	6.292	-0.001 1812761	5.1596	5.3859	4.3	Heptachlor epoxide b
6.098	-0.001 293283	6.679 -0.001 1621321	6.679	-0.001 1621321	5.1574	5.3643	3.9	Endosulfan I
6.322	-0.001 610639	6.937 -0.002 3499950	6.937	-0.002 3499950	10.3884	10.9464	5.2	Dieldrin
6.026	-0.001 557488	6.744 -0.002 3357060	6.744	-0.002 3357060	10.2720	11.0117	7.0	4,4'-DDE
6.539	-0.001 522854	7.227 -0.001 2803750	7.227	-0.001 2803750	10.2748	10.8226	5.2	Endrin
6.745	-0.001 510105	7.415 -0.001 2788388	7.415	-0.001 2788388	10.3807	10.7679	3.7	Endosulfan II
6.583	-0.001 453913	7.281 -0.002 2613050	7.281	-0.002 2613050	10.2155	10.6800	4.4	4,4'-DDD
7.513	0.000 422893	7.959 -0.001 2284803	7.959	-0.001 2284803	10.2244	10.4930	2.6	Endosulfan sulfate
6.841	-0.002 452523	7.570 -0.001 2440748	7.570	-0.001 2440748	10.1287	10.4828	3.4	4,4'-DDT
7.270	-0.001 1146231	8.155 -0.003 5186781	8.155	-0.003 5186781	52.4757	52.2142	0.5	Methoxychlor
7.766	-0.001 493774	8.447 -0.001 2276202	8.447	-0.001 2276202	10.2086	10.4649	2.5	Endrin ketone
7.123	0.000 410006	7.714 -0.001 2163872	7.714	-0.001 2163872	10.3462	10.6146	2.6	Endrin aldehyde
5.842	-0.001 310794	6.474 -0.002 1853134	6.474	-0.002 1853134	5.0865	5.2777	3.7	gamma-Chlordane
5.966	-0.001 301572	6.613 -0.002 1736249	6.613	-0.002 1736249	5.1141	5.3035	3.6	alpha-Chlordane
2.209	-0.001 472580	2.376 -0.001 2441459	2.376	-0.001 2441459	5.2036	5.3474	2.7	Hexachlorobutadiene
4.001	-0.001 344216	4.457 0.000 2117430	4.457	0.000 2117430	5.2528	5.3637	2.1	Hexachlorobenzene
8.750	0.000 3724289	10.106 0.001 15016060	10.106	0.001 15016060	80.0000	80.0000	0.0	Hexabromobiphenyl
3.669	-0.001 626204	4.006 -0.001 4036246	4.006	-0.001 4036246	10.5100	11.0428	4.9	Tetrachloro-m-xylene
8.610	-0.001 523224	9.566 0.000 2426746	9.566	0.000 2426746	10.5122	10.5098	0.0	Decachlorobiphenyl

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	26.3	27.6	26.3~	115- 0
Decachlorobiphenyl	26.3	26.3	26.3~	115- 0

~ Indicates recovery outside QC Limits

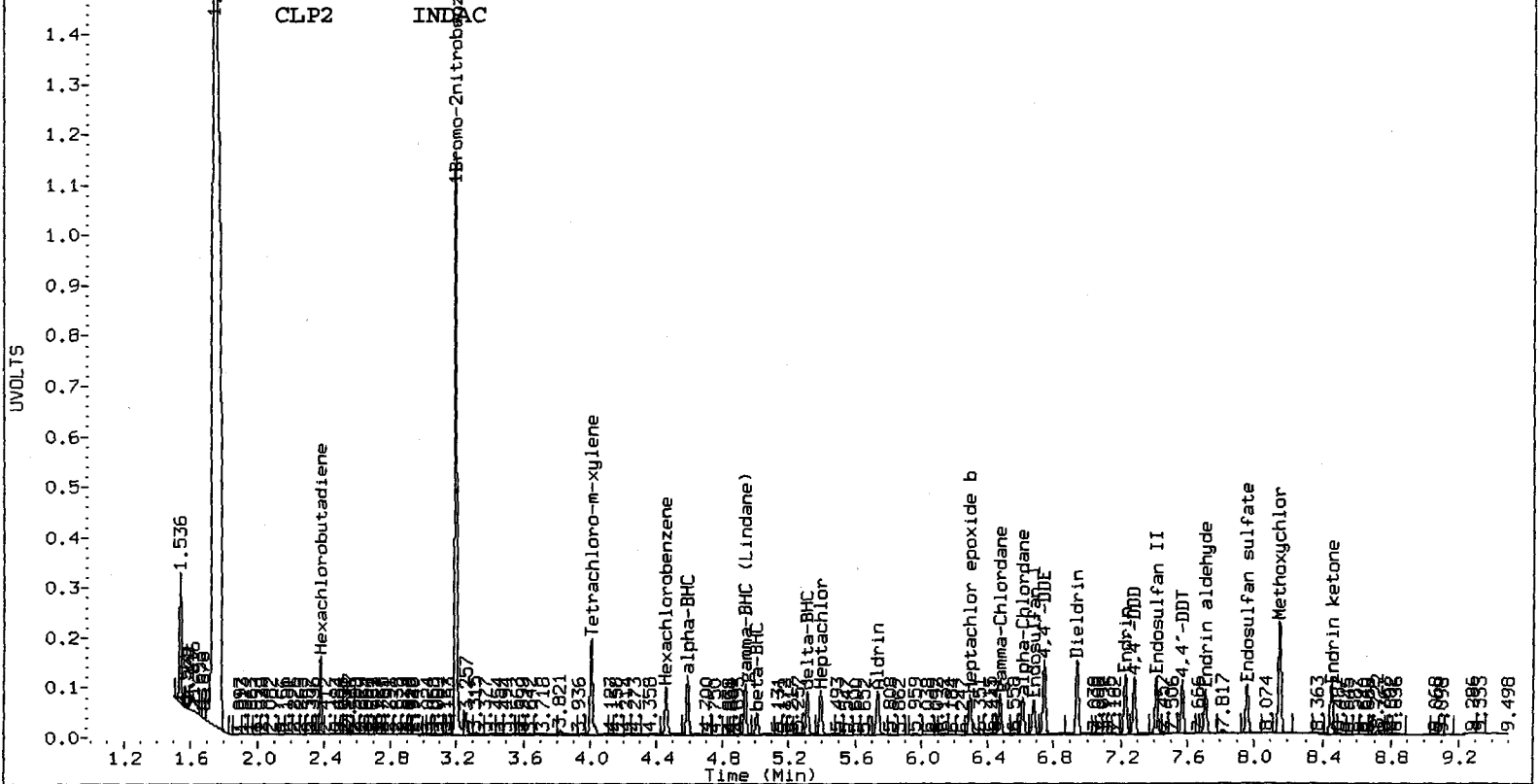
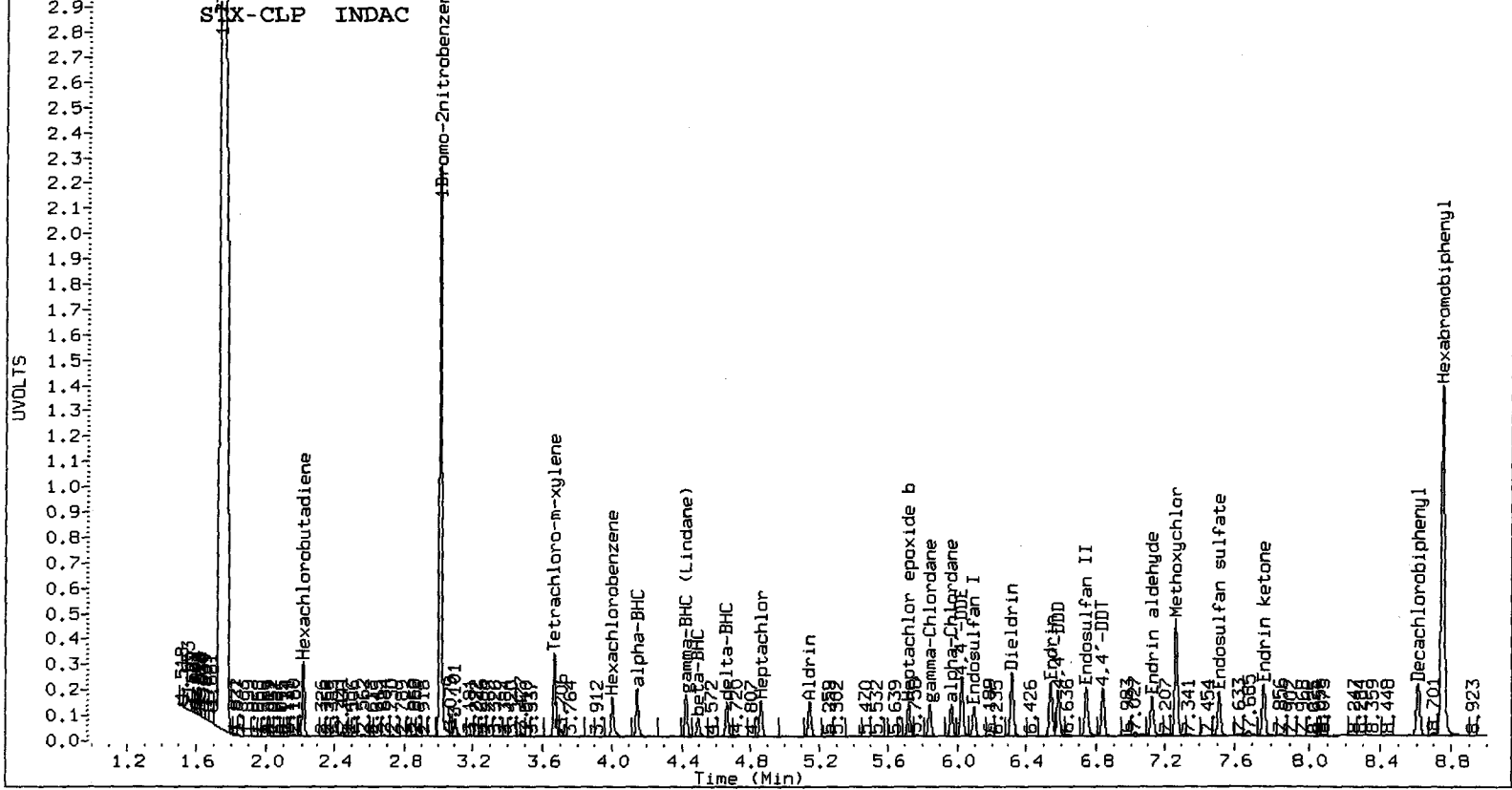
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4021073	-1.0
Hexabromobiphenyl	3748709	3724289	-0.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21029129	0.0
Hexabromobiphenyl	14864285	15016060	1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A018.d ARI ID: INDDAD
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A018.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 17:50
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.015	0.000	4048036	3.195	0.000	21297295	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	-0.001	753043	4.585	-0.001	4731242	9.9821	10.1834	2.0	alpha-BHC
4.497	-0.001	307333	5.007	0.000	1865344	9.6375	9.9199	2.9	beta-BHC
4.663	0.000	601026	5.314	-0.001	3683804	9.8837	9.9952	1.1	delta-BHC
4.424	0.000	686414	4.936	0.000	4256403	9.9037	10.1341	2.3	gamma-BHC (Lindane)
4.861	-0.001	619072	5.397	0.000	3945231	9.8515	10.2595	4.1	Heptachlor
5.148	-0.001	632975	5.735	-0.001	3894113	9.8634	10.2984	4.3	Aldrin
5.722	-0.001	606961	6.293	0.000	3472997	9.8117	10.1886	3.8	Heptachlor epoxide b
6.099	0.000	562379	6.679	-0.001	3122784	9.8237	10.2019	3.8	Endosulfan I
6.322	0.000	1186002	6.938	-0.001	6677897	20.0422	20.6228	2.9	Dieldrin
6.027	-0.001	1096331	6.744	-0.001	6393429	20.0658	20.7074	3.1	4,4'-DDE
6.540	0.000	1028622	7.228	0.000	5354567	19.9045	20.4200	2.6	Endrin
6.745	-0.001	985564	7.416	0.000	5310240	19.7496	20.2597	2.6	Endosulfan II
6.583	-0.001	895847	7.282	-0.001	5068029	19.8529	20.4646	3.0	4,4'-DDD
7.514	0.000	830963	7.959	-0.001	4475850	19.7831	20.3080	2.6	Endosulfan sulfate
6.841	-0.001	898651	7.571	0.000	4783044	19.8066	20.2954	2.4	4,4'-DDT
7.271	0.000	2153053	8.156	-0.003	9446850	97.0609	93.9546	3.3	Methoxychlor
7.767	0.000	953680	8.448	-0.001	4379362	19.4154	19.8918	2.4	Endrin ketone
7.124	0.000	789175	7.715	0.000	4155941	19.6096	20.1410	2.7	Endrin aldehyde
5.842	0.000	600154	6.475	-0.001	3566810	9.7568	10.0304	2.8	gamma-Chlordane
5.966	-0.001	579953	6.614	-0.001	3344571	9.7694	10.0876	3.2	alpha-Chlordane
2.210	0.000	892276	2.376	-0.001	4593851	9.7594	9.9350	1.8	Hexachlorobutadiene
4.001	-0.001	639325	4.458	0.000	3975246	9.6912	9.9430	2.6	Hexachlorobenzene
8.750	0.000	3782157	10.107	0.001	15199043	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	-0.001	1187501	4.007	-0.001	7484963	19.7978	20.2203	2.1	Tetrachloro-m-xylene
8.611	0.000	964936	9.566	0.000	4522605	19.0901	19.3509	1.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	49.5	50.6	49.5~	115- 0
Decachlorobiphenyl	47.7	48.4	47.7~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

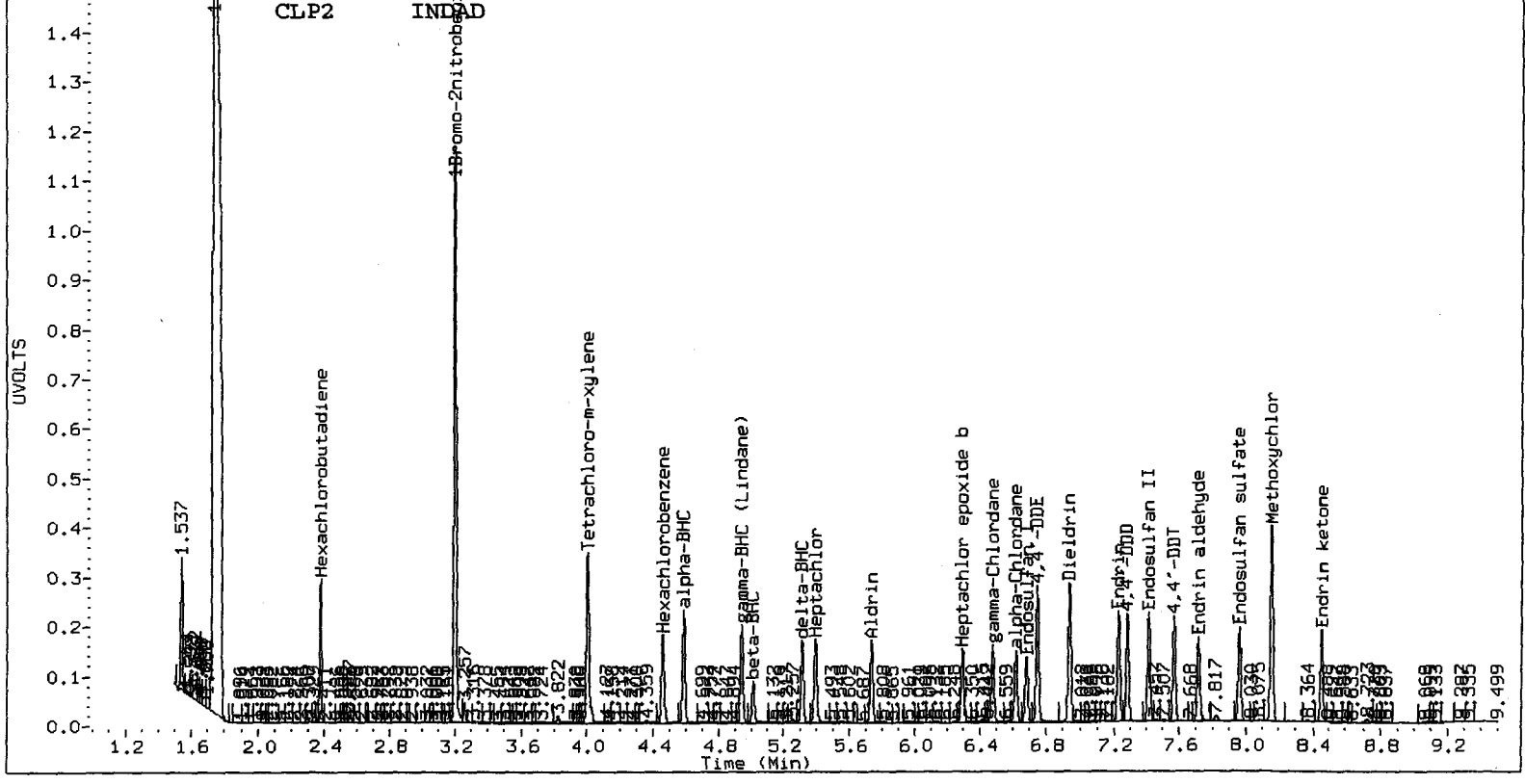
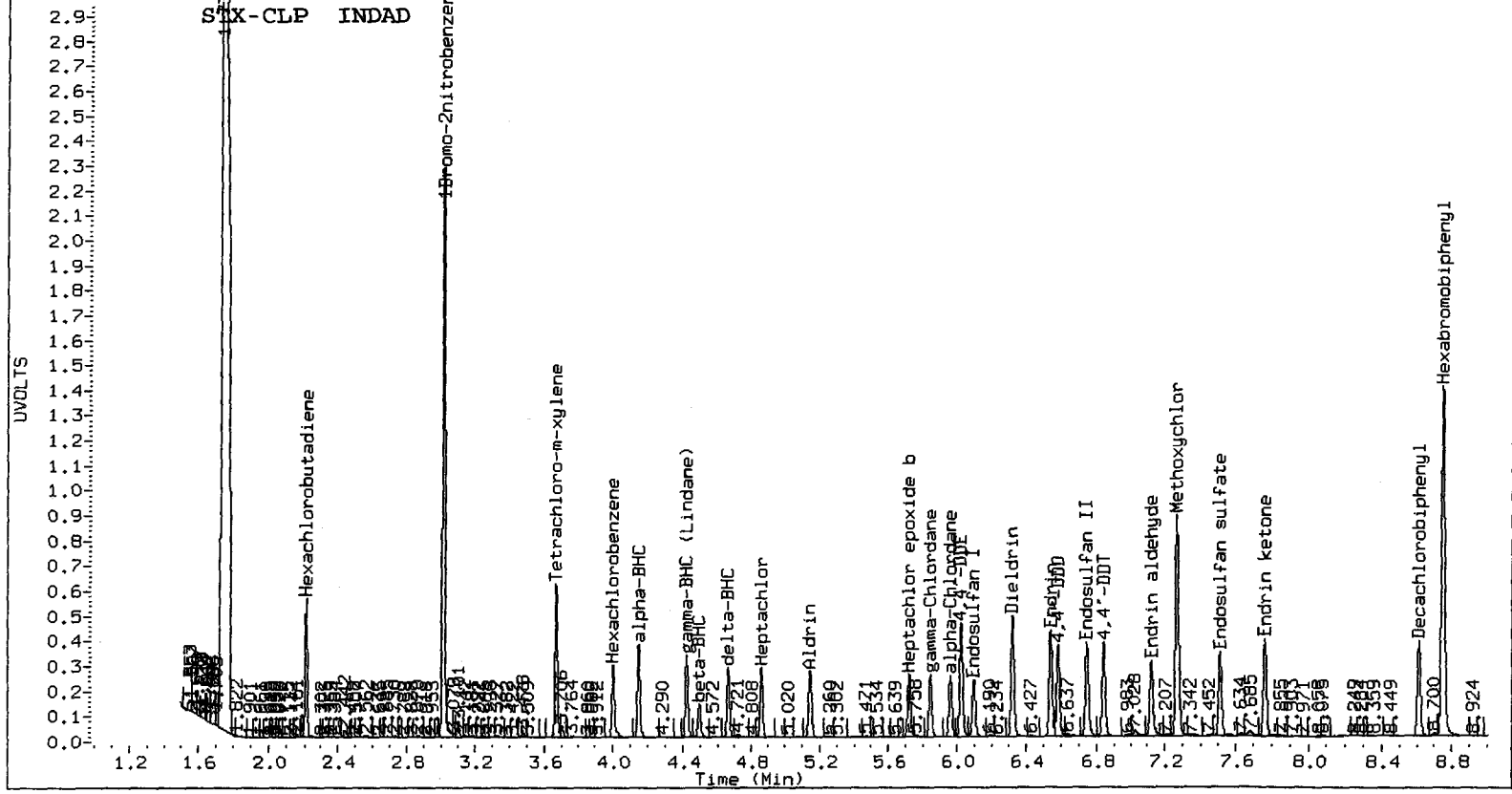
Standard Cpd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4048036	-0.3
Hexabromobiphenyl	3748709	3782157	0.9

Standard Cpd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21297295	1.3
Hexabromobiphenyl	14864285	15199043	2.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount

=====



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A019.d ARI ID: INDAF
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A019.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 18:08
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4083237	3.195 0.000 21266311	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	-0.001 3043309	4.584 -0.001 18332619	39.9932	39.5161	1.2	alpha-BHC
4.497	-0.001 1148351	5.006 -0.001 6937835	35.7002	36.9493	3.4	beta-BHC
4.662	0.000 2482953	5.314 -0.001 14827162	40.4795	40.2888	0.5	delta-BHC
4.424	0.000 2742105	4.936 0.000 16284513	39.2225	38.8286	1.0	gamma-BHC (Lindane)
4.861	-0.001 2392248	5.396 -0.001 13998475	37.7405	36.4559	3.5	Heptachlor
5.148	-0.001 2459585	5.735 0.000 14079333	37.9963	37.2886	1.9	Aldrin
5.722	-0.001 2276278	6.292 -0.001 12162441	36.4794	35.7326	2.1	Heptachlor epoxide
6.098	-0.001 2112972	6.679 -0.001 11126423	36.5913	36.4023	0.5	Endosulfan I
6.322	-0.001 4466945	6.937 -0.002 22775652	74.8361	70.4386	6.1	Dieldrin
6.026	-0.001 4195148	6.744 -0.002 21607101	76.1207	70.0844	8.3	4,4'-DDE
6.539	-0.001 3902111	7.227 -0.001 18268145	74.6489	68.7251	8.3	Endrin
6.745	-0.001 3685750	7.416 -0.001 18535218	73.0175	69.7600	4.6	Endosulfan II
6.583	-0.001 3437840	7.282 -0.001 18004957	75.3189	71.7209	4.9	4,4'-DDD
7.513	-0.001 3161471	7.959 -0.001 16231153	74.4097	72.6492	2.4	Endosulfan sulfate
6.841	-0.001 3535041	7.570 -0.001 17615590	77.0267	73.7363	4.4	4,4'-DDT
7.270	-0.001 7835237	8.156 -0.003 31786309	349.1966	311.8609	11.3	Methoxychlor
7.766	0.000 3602102	8.447 -0.002 15829007	72.4983	70.9261	2.2	Endrin ketone
7.123	-0.001 2930013	7.714 -0.001 14712763	71.9769	70.3388	2.3	Endrin aldehyde
5.842	-0.001 2311547	6.475 -0.001 13020726	37.2551	36.6695	1.6	gamma-Chlordane
5.966	-0.001 2215001	6.613 -0.002 12197419	36.9902	36.8425	0.4	alpha-Chlordane
2.210	0.000 3353279	2.377 0.000 16533462	36.3607	35.8087	1.5	Hexachlorobutadiene
4.001	-0.001 2311938	4.457 0.000 14013718	34.7434	35.1025	1.0	Hexachlorobenzene
8.750	0.000 3825703	10.106 0.000 15407292	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 4370852	4.007 -0.001 24864526	72.2419	67.2684	7.1	Tetrachloro-m-xylen
8.610	-0.001 3423358	9.565 -0.001 16108381	66.9562	67.9913	1.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	180.6	168.2	168.2~	115- 0
Decachlorobiphenyl	167.4	170.0	167.4~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

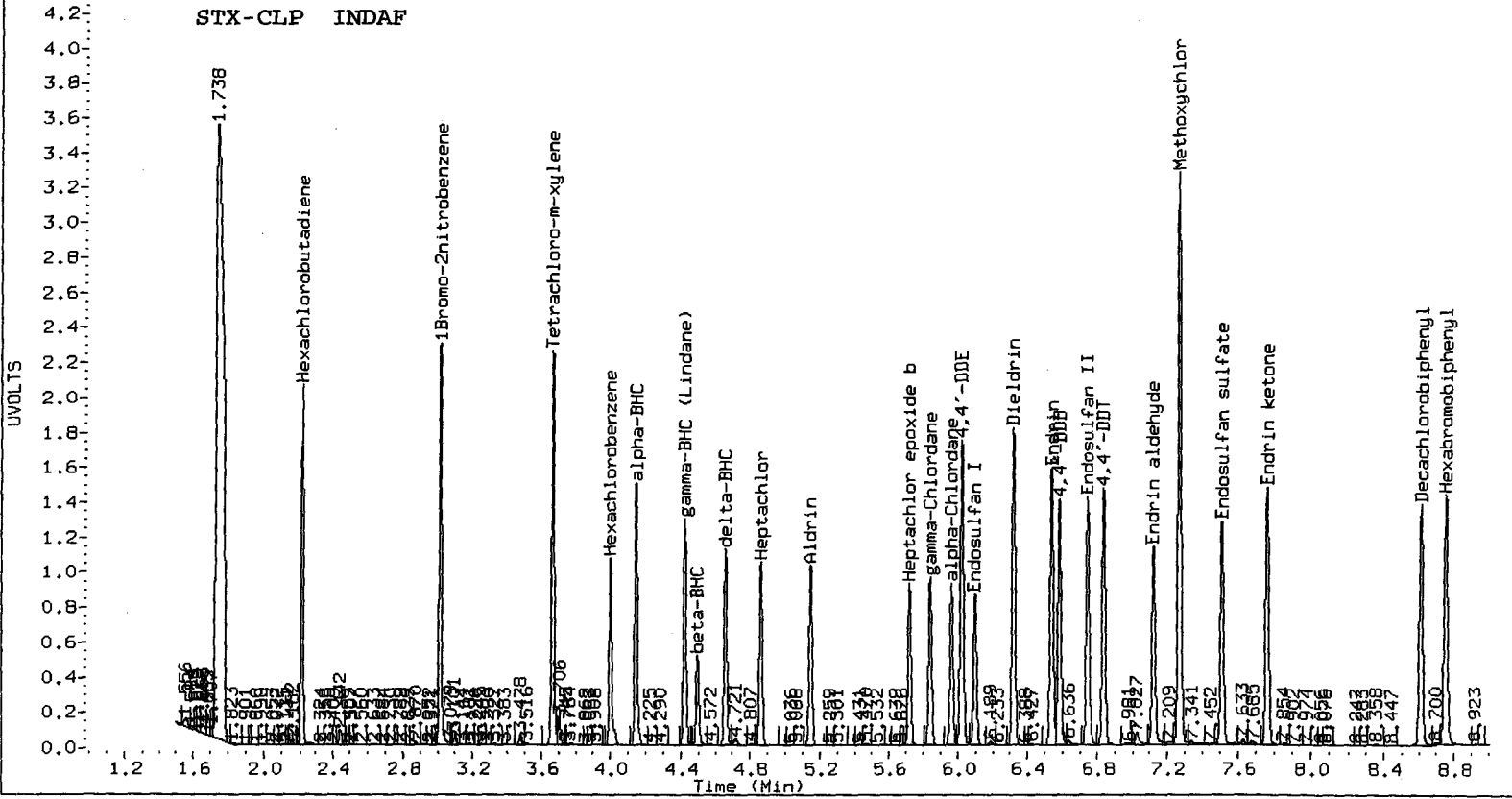
Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4083237	0.6
Hexabromobiphenyl	3748709	3825703	2.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21266311	1.1
Hexabromobiphenyl	14864285	15407292	3.7

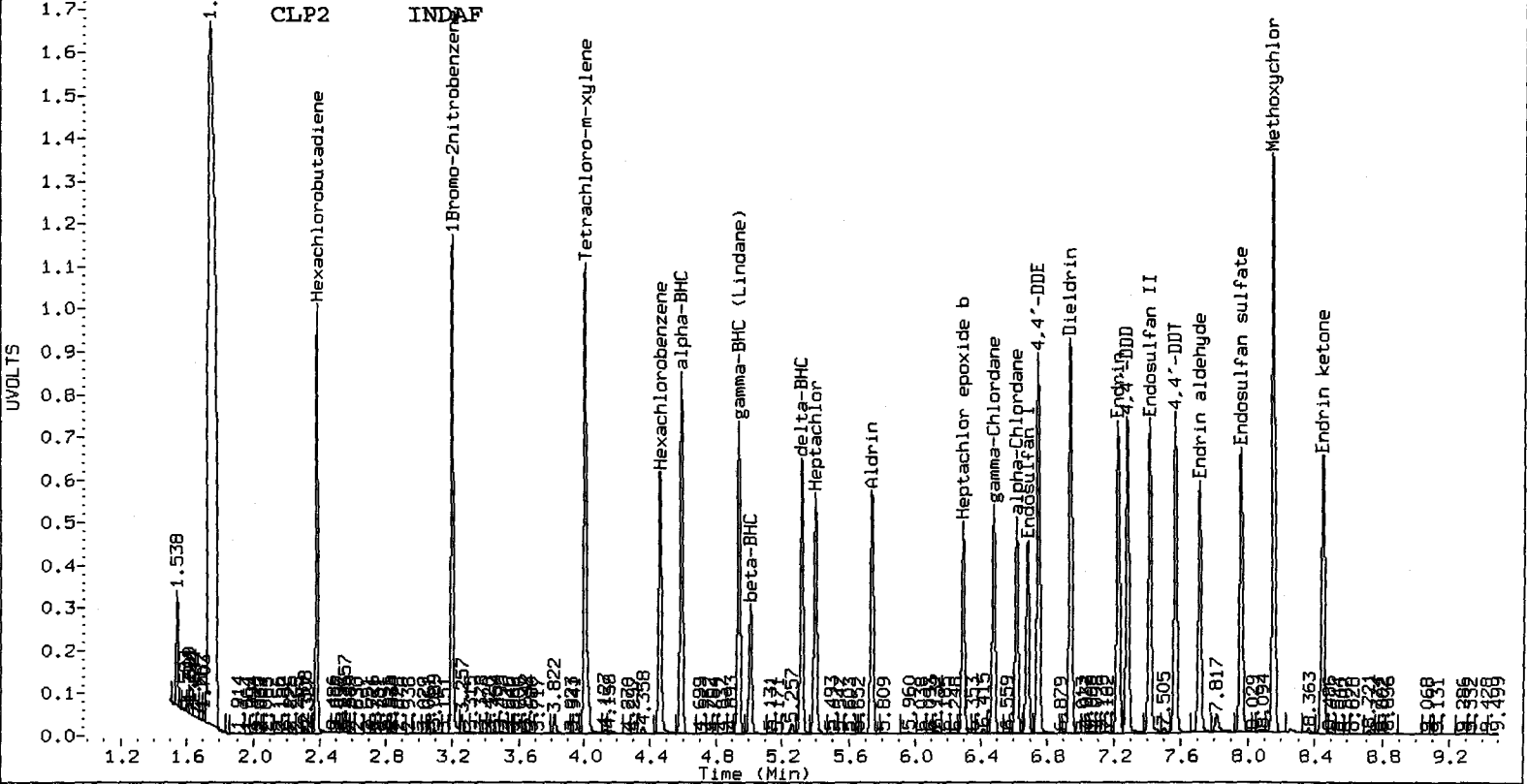
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										

STX-CLP INDAF



CLP2 INDAF



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A020.d ARI ID: INDAG
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A020.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 18:26
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4094375	3.195 0.000 21395806	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	0.000 6223208	4.585 0.000 36585525	81.5589	78.3830	4.0	alpha-BHC
4.497	0.000 2279688	5.007 0.000 13424435	70.6786	71.0627	0.5	beta-BHC
4.663	0.000 5108787	5.314 0.000 29685366	83.0618	80.1738	3.5	delta-BHC
4.424	0.000 5579992	4.937 0.000 31900211	79.5978	75.6021	5.1	gamma-BHC (Lindane)
4.862	0.000 4765732	5.397 0.000 25938815	74.9804	67.1430	11.0	Heptachlor
5.149	0.000 4904752	5.736 0.000 26129016	75.5637	68.7830	9.4	Aldrin
5.723	0.000 4456552	6.293 0.000 22445619	71.2260	65.5449	8.3	Heptachlor epoxide
6.099	0.000 4158031	6.680 0.000 20631522	71.8106	67.0916	6.8	Endosulfan I
6.322	0.000 8804565	6.939 0.000 42534449	147.1044	130.7507	11.8	Dieldrin
6.027	0.000 8316867	6.745 0.000 39831881	150.4984	128.4161	15.8	4,4'-DDE
6.540	0.000 7740338	7.228 0.000 34059169	149.6120	129.3858	14.5	Endrin
6.746	0.000 7233710	7.416 0.000 34895917	144.7922	132.6219	8.8	Endosulfan II
6.584	0.000 6824279	7.283 0.000 34056690	151.0629	136.9897	9.8	4,4'-DDD
7.514	0.000 6260618	7.960 0.000 31062282	148.8814	140.3934	5.9	Endosulfan sulfate
6.842	0.000 7063105	7.571 0.000 33916089	155.4983	143.3578	8.1	4,4'-DDT
7.271	0.000 15696181	8.158 0.000 57718760	706.7971	571.8336	21.1	Methoxychlor
7.766	0.000 7227390	8.449 0.000 30883210	146.9726	139.7356	5.0	Endrin ketone
7.123	0.000 5778071	7.715 0.000 27776354	143.4133	134.0935	6.7	Endrin aldehyde
5.842	0.000 4640873	6.476 0.000 24653279	74.5932	69.0094	7.8	gamma-Chlordane
5.967	0.000 4412614	6.615 0.000 23124370	73.4896	69.4248	5.7	alpha-Chlordane
2.210	0.000 6701087	2.377 0.000 32243507	72.4645	69.4113	4.3	Hexachlorobutadiene
4.002	0.000 4586041	4.458 0.000 26556350	68.7307	66.1175	3.9	Hexachlorobenzene
8.750	0.000 3786416	10.107 0.001 15257890	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 8627475	4.008 0.000 46807054	142.2079	125.8652	12.2	Tetrachloro-m-xyle
8.610	0.000 6651608	9.566 0.000 31112739	131.4463	132.6085	0.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	355.5	314.7	314.7~	115- 0
Decachlorobiphenyl	328.6	331.5	328.6~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4094375	0.8
Hexabromobiphenyl	3748709	3786416	1.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21395806	1.7
Hexabromobiphenyl	14864285	15257890	2.6

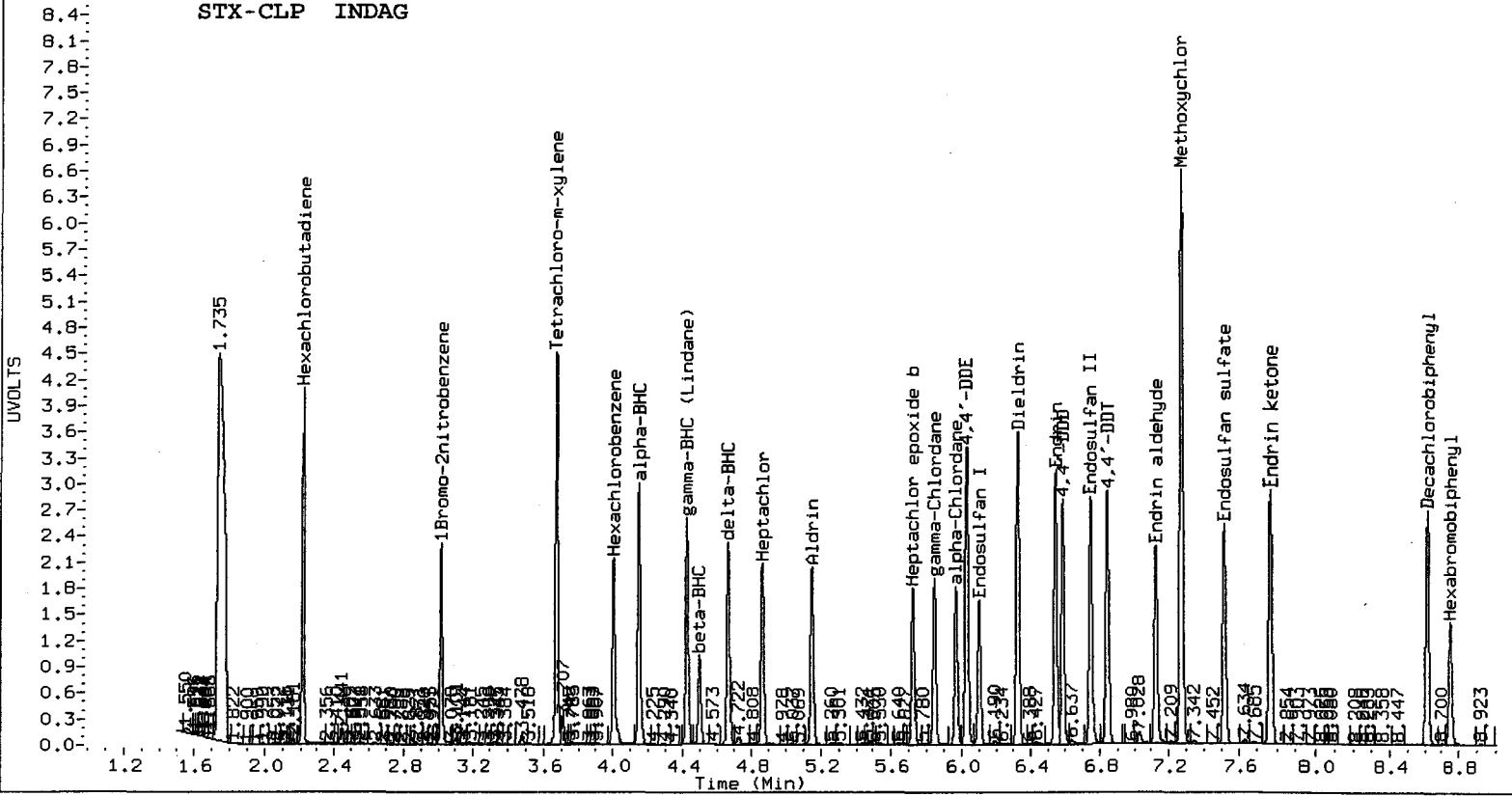
* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

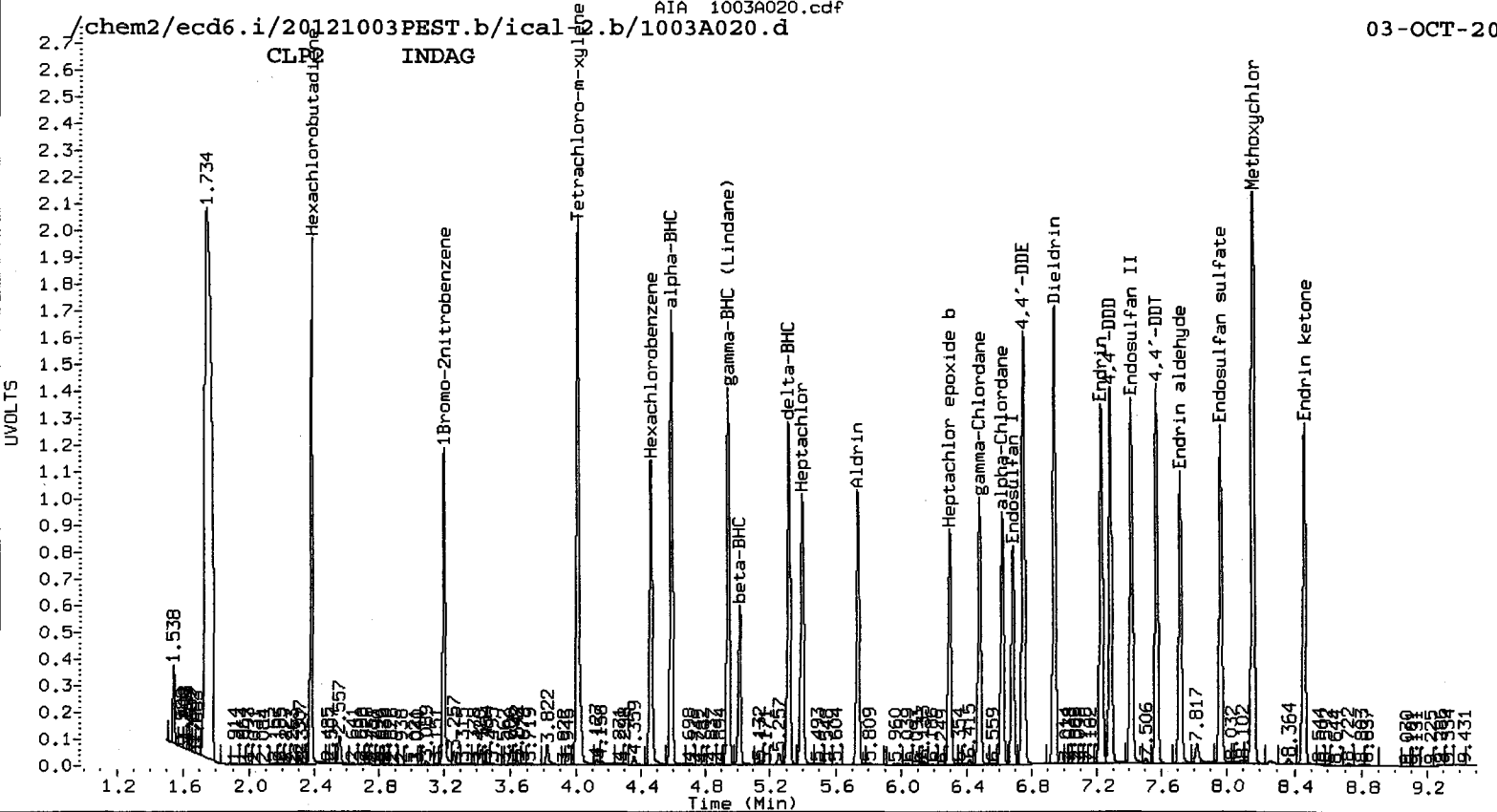
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount

STX-CLP INDAG



CLP INDAG



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A023.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A023.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 19:19
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
---			---			0.0000	0.0000	---	Hexachloroethane
3.015	0.000	4208844	3.195	0.000	22225166	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.627	0.000	1875340	6.203	0.001	10778662	38.1904	38.0313	0.4	Oxychlorodane
5.704	0.000	1391551	6.454	0.000	7514802	38.5558	36.6646	5.0	2,4-DDE
5.951	0.000	2248854	6.560	0.000	12647727	38.4519	38.1173	0.9	trans-Nonachlor
6.191	0.001	1224989	6.939	0.000	6735117	37.8878	37.6828	0.5	2,4-DDD
6.429	0.000	1389976	7.227	0.000	7359721	37.9783	37.7443	0.6	2,4-DDT
6.567	0.000	2407444	7.286	0.000	13148364	38.8613	37.8988	2.5	cis-Nonachlor
7.437	0.000	1505103	8.433	0.000	6870727	36.4998	35.8190	1.9	Mirex
8.750	0.000	3949210	10.105	0.000	15958085	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000	2032471	4.007	-0.001	12490067	32.5904	32.3328	0.8	Tetrachloro-m-xylen
8.610	-0.001	1622558	9.565	-0.001	7671404	30.7426	31.2624	1.7	Decachlorobiphenyl

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	81.5	80.8	80.8~	150- 0
Decachlorobiphenyl	76.9	78.2	76.9~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4208844	3.7
Hexabromobiphenyl	3748709	3949210	5.3

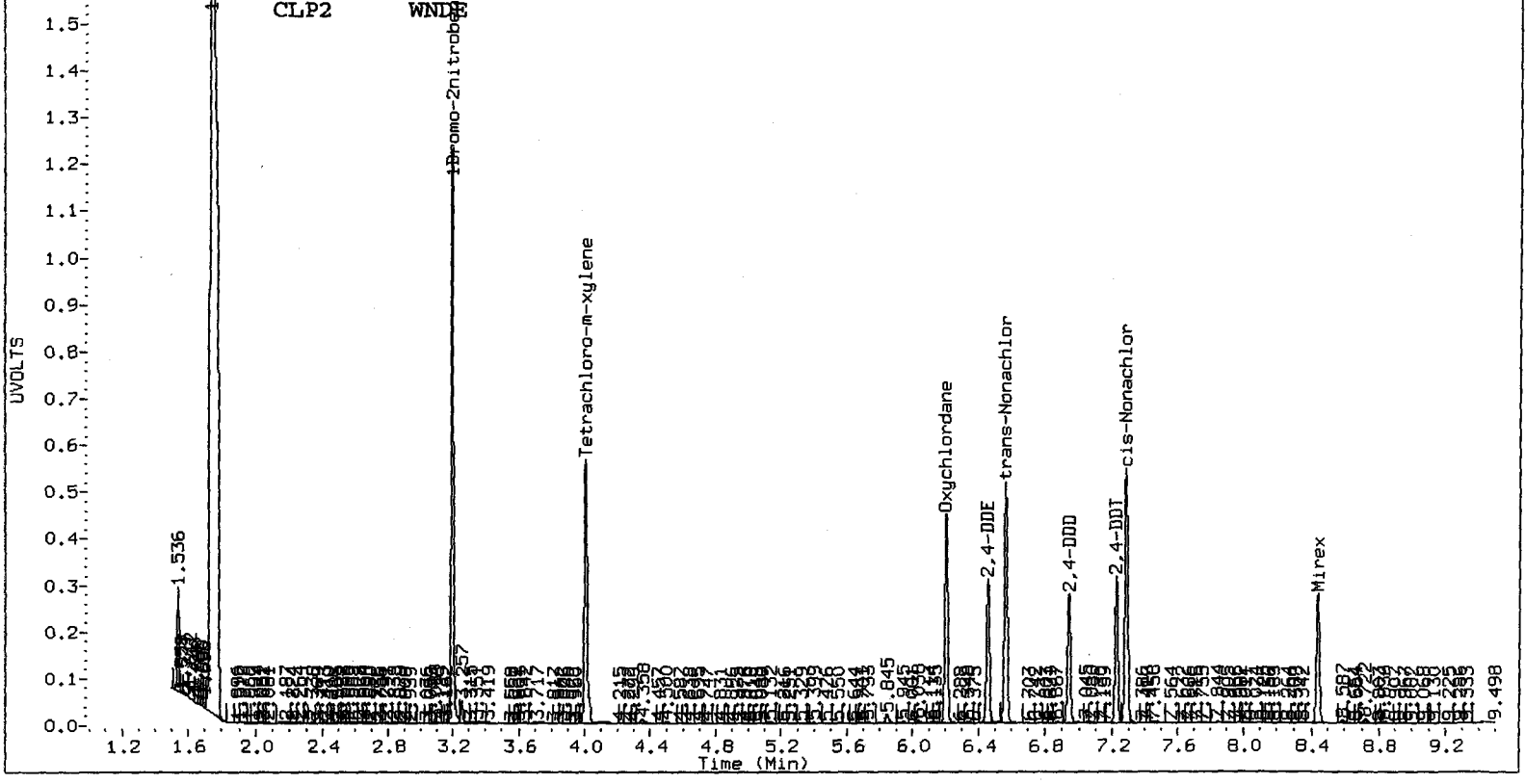
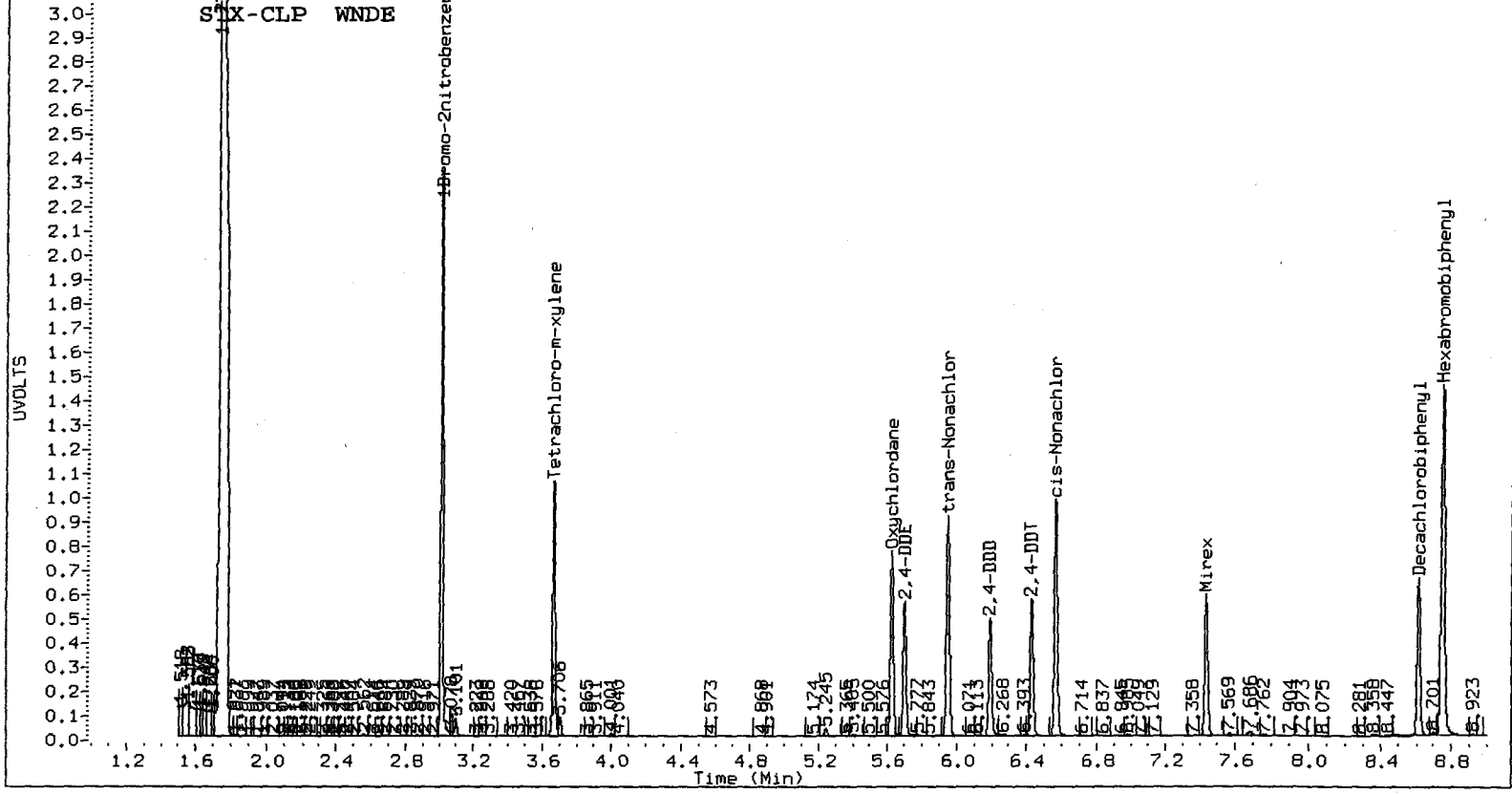
Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22225166	5.7
Hexabromobiphenyl	14864285	15958085	7.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A024.d ARI ID: WNDA
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A024.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 19:37
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 3929689	3.195 0.000 20878006	3.195	0.000 20878006	80.0000	80.0000	0.0	Hexachloroethane
5.627	0.000 138855	6.202 0.000 800932	6.202	0.000 800932	3.0348	3.0083	0.9	1Bromo-2nitrobenzen
5.704	0.000 101301	6.453 -0.001 639055	6.453	-0.001 639055	3.0123	3.3191	9.7	Oxychlorthane
5.951	0.000 160701	6.560 -0.001 927576	6.560	-0.001 927576	2.9490	3.0133	2.2	2,4-DDE
6.191	0.001 92191	6.939 0.000 525330	6.939	0.000 525330	3.0602	3.1682	3.5	trans-Nonachlor
6.429	0.000 102796	7.227 0.000 560760	7.227	0.000 560760	3.0144	3.0999	2.8	2,4-DDD
6.567	0.000 166656	7.286 0.000 970320	7.286	0.000 970320	2.8872	3.0147	4.3	2,4-DDT
7.437	0.000 125697	8.433 0.000 589624	8.433	0.000 589624	3.2715	3.3134	1.3	cis-Nonachlor
8.750	0.000 3679733	10.106 0.000 14804646	10.106	0.000 14804646	80.0000	80.0000	0.0	Mirex
3.670	0.000 147970	4.007 -0.001 963502	4.007	-0.001 963502	2.5412	2.6551	4.4	Hexabromobiphenyl
8.610	0.000 147100	9.565 -0.001 634421	9.565	-0.001 634421	2.9912	2.7868	7.1	Tetrachloro-m-xylene
								Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	6.4	6.6	6.4~	150- 0
Decachlorobiphenyl	7.5	7.0	7.0~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	3929689	-3.2
Hexabromobiphenyl	3748709	3679733	-1.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	20878006	-0.7
Hexabromobiphenyl	14864285	14804646	-0.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A025.d ARI ID: WNDB
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A025.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 19:55
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4316718	3.195 0.000 22757667	0.0000	0.0000	---	Hexachloroethane
5.627	0.000 260671	6.203 0.000 1557587	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.704	0.001 190617	6.453 0.000 1187579	5.2224	5.3672	2.7	Oxychlorane
5.951	0.000 306991	6.560 -0.001 1806081	5.1958	5.6586	8.5	2,4-DDE
6.191	0.001 173722	6.939 0.001 999286	5.1640	5.3223	3.0	trans-Nonachlor
6.429	0.000 195046	7.227 0.000 1074427	5.2860	5.4669	3.4	2,4-DDD
6.567	0.000 319064	7.286 0.000 1880730	5.2429	5.3879	2.7	2,4-DDT
7.437	0.000 226889	8.433 0.000 1079584	5.0669	5.3007	4.5	cis-Nonachlor
8.750	0.000 4014283	10.106 0.000 16320408	5.4130	5.5032	1.7	Mirex
3.670	-0.001 278019	4.007 -0.001 1859583	80.0000	80.0000	0.0	Hexabromobiphenyl
8.610	0.000 254923	9.565 -0.001 1167913	4.3466	4.7012	7.8	Tetrachloro-m-xylene
			4.7517	4.6538	2.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	10.9	11.8	10.9~	150- 0
Decachlorobiphenyl	11.9	11.6	11.6~	150- 0

~ Indicates recovery outside QC Limits

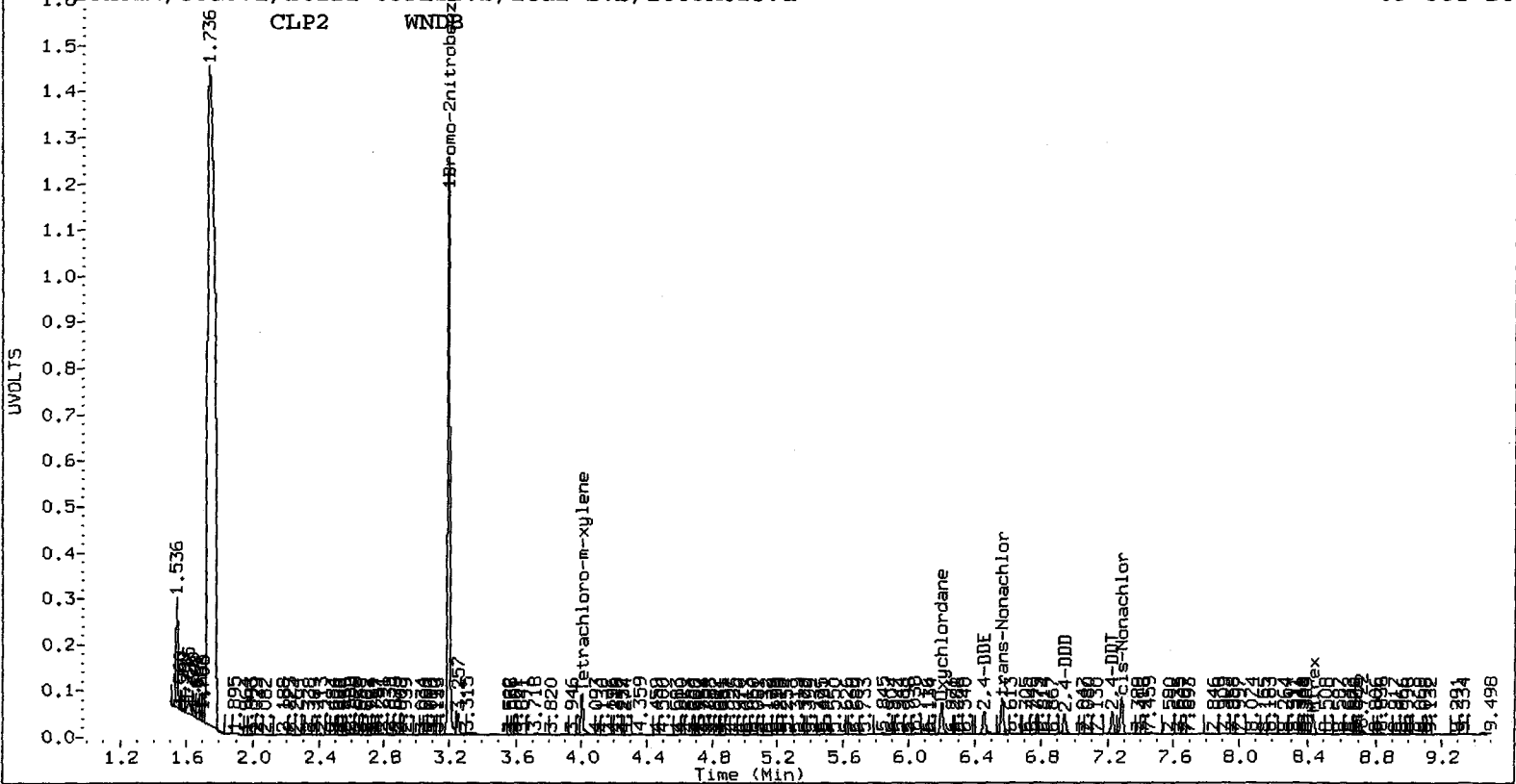
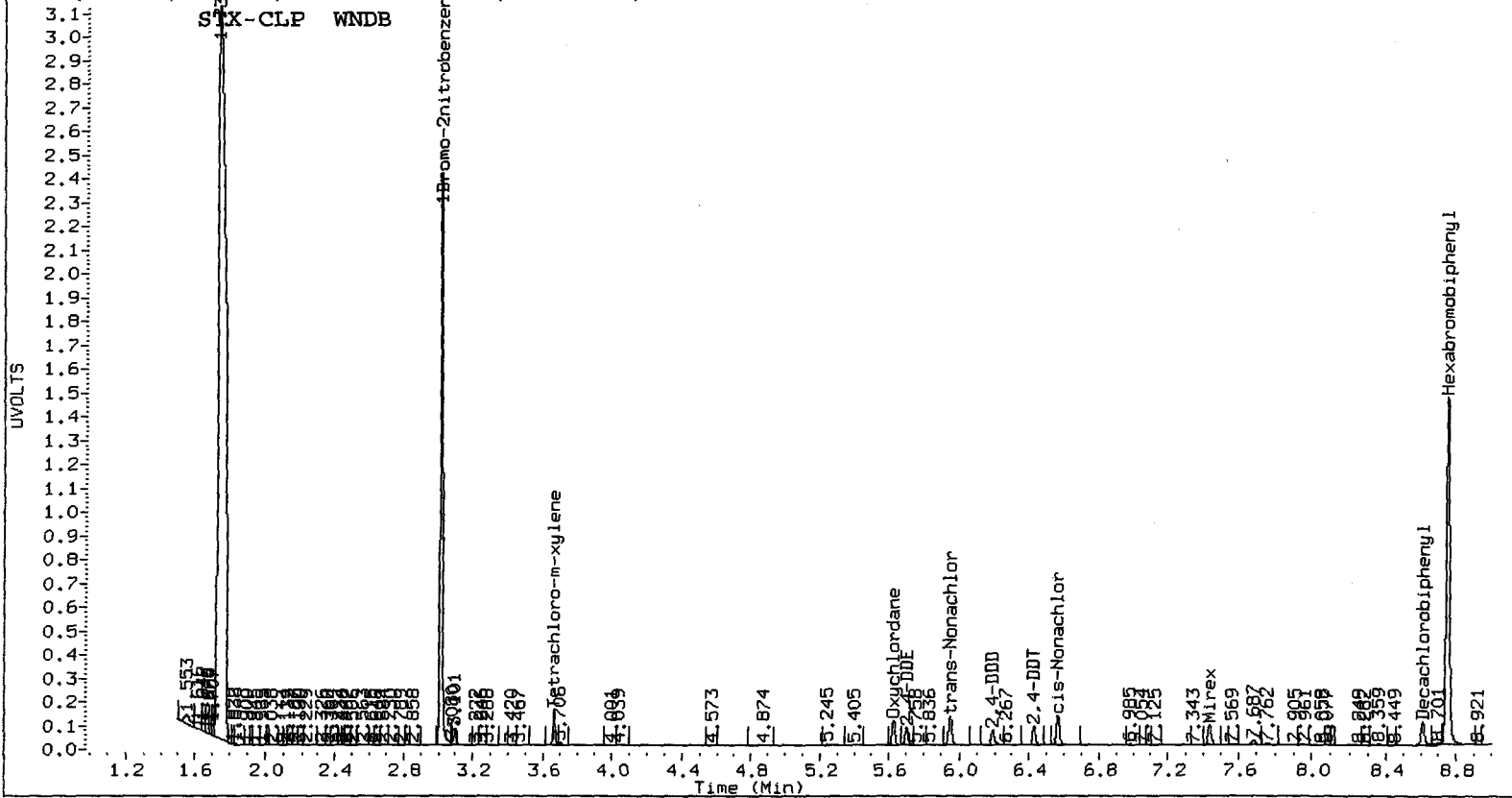
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4316718	6.3
Hexabromobiphenyl	3748709	4014283	7.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22757667	8.2
Hexabromobiphenyl	14864285	16320408	9.8

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			CLP2 Col			Amount
			Shift	Height	Amount	Peak#	RT	Shift	
=====									



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A026.d ARI ID: WNDC
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A026.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 20:12
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
1.738	0.000	312812	----			0.0000	0.0000	---	Hexachloroethane
3.015	0.000	4166737	3.195	0.000	22095258	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.627	0.000	496713	6.202	0.000	2997096	10.1605	10.6371	4.6	Oxychlorthane
5.703	0.000	364148	6.453	0.000	2209166	10.1346	10.8418	6.7	2,4-DDE
5.951	0.000	587539	6.560	-0.001	3520113	10.0909	10.5597	4.5	trans-Nonachlor
6.191	0.001	326012	6.939	0.000	1893386	10.1283	10.5444	4.0	2,4-DDD
6.429	0.000	368308	7.227	0.000	2065543	10.1083	10.5441	4.2	2,4-DDT
6.566	0.000	618933	7.285	0.000	3641716	10.0356	10.4483	4.0	cis-Nonachlor
7.437	0.000	419909	8.433	0.000	2006865	10.2286	10.4139	1.8	Mirex
8.750	0.000	3931640	10.106	0.000	16032237	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000	534193	4.007	-0.001	3549008	8.6523	9.2413	6.6	Tetrachloro-m-xylene
8.610	-0.001	464604	9.565	-0.001	2180729	8.8422	8.8458	0.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	21.6	23.1	21.6~	150- 0
Decachlorobiphenyl	22.1	22.1	22.1~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

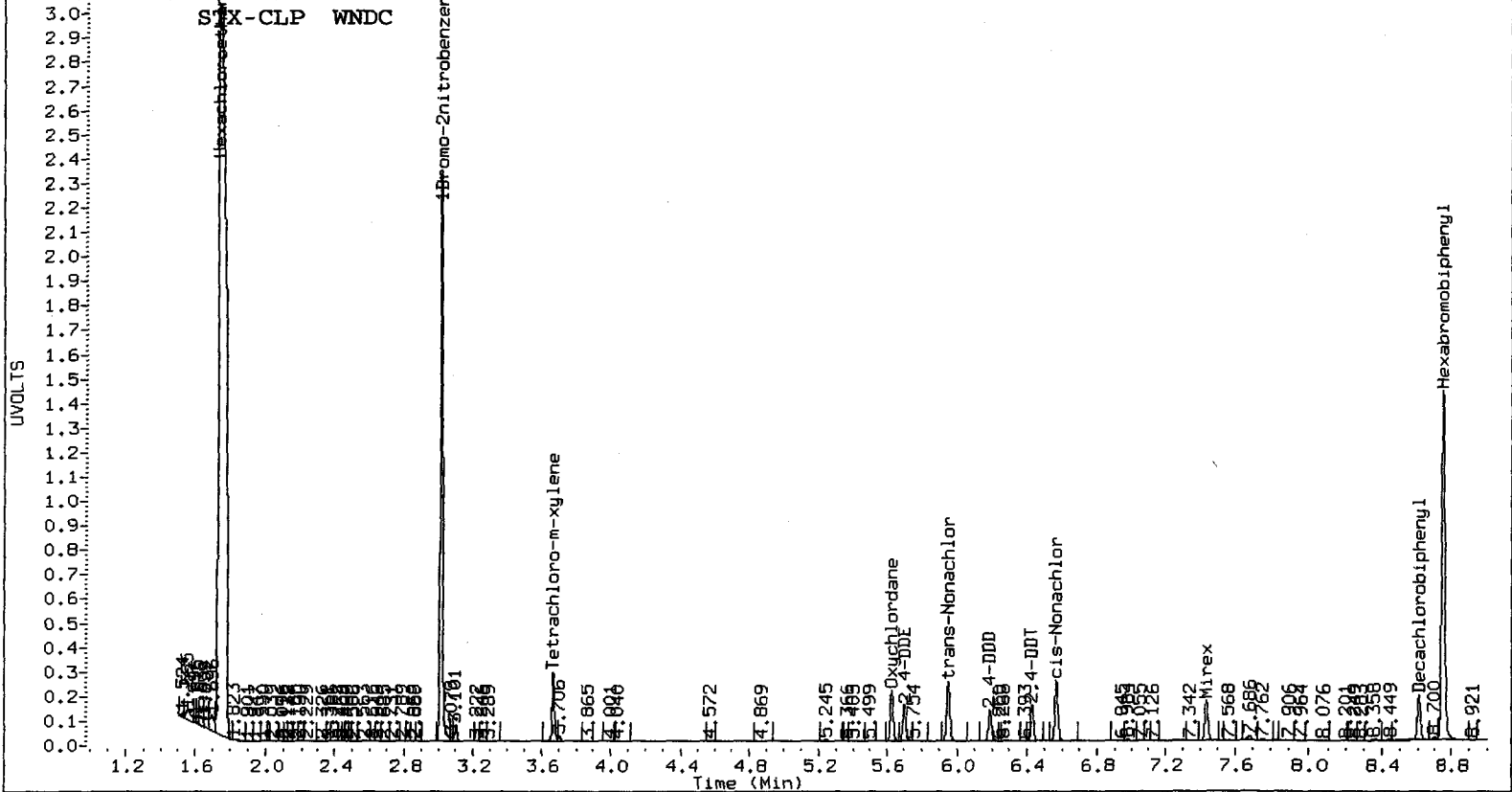
Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4166737	2.6
Hexabromobiphenyl	3748709	3931640	4.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22095258	5.1
Hexabromobiphenyl	14864285	16032237	7.9

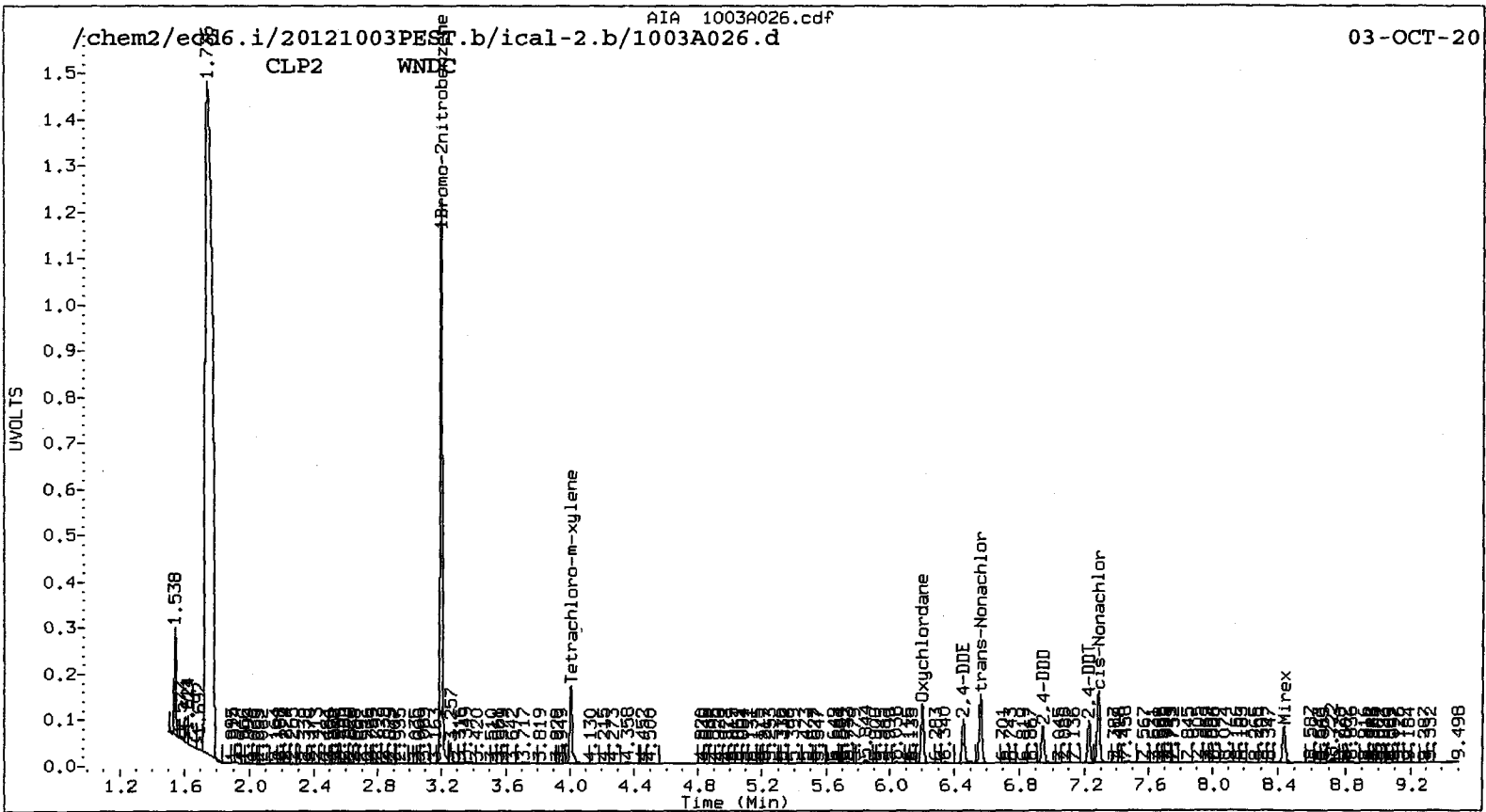
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			CLP2 Col				
			Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										

STX-CLP WND



CLP2 WND



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A027.d ARI ID: WNDD
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A027.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 20:30
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4291231	3.195	0.000 22892989	80.0000	80.0000	0.0	Hexachloroethane
5.627	0.000 972585	6.203	0.000 5839339	19.4854	20.0024	2.6	1Bromo-2nitrobenzen
5.703	0.000 732301	6.453	-0.001 4205191	19.9612	19.9185	0.2	Oxychlorthane
5.950	0.000 1162501	6.560	-0.001 6856105	19.5550	20.2541	0.2	2,4-DDE
6.191	0.001 638188	6.939	0.000 3660949	19.4189	20.0779	3.5	trans-Nonachlor
6.429	0.000 725071	7.227	0.000 4005489	19.4902	20.1360	3.3	2,4-DDD
6.567	0.001 1232021	7.286	0.000 7118628	19.5653	20.1130	3.3	2,4-DDT
7.437	0.000 798012	8.434	0.001 3764042	19.0389	19.2350	2.8	cis-Nonachlor
8.750	0.000 4014232	10.106	0.001 16280005	80.0000	80.0000	1.0	Mirex
3.670	0.000 1053390	4.007	-0.001 6858299	16.5667	17.2360	0.0	Hexabromobiphenyl
8.610	-0.001 864083	9.566	-0.001 4117495	16.1066	16.4477	4.0	Tetrachloro-m-xylene
						2.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	41.4	43.1	41.4~	150- 0
Decachlorobiphenyl	40.3	41.1	40.3~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	4291231	5.7
Hexabromobiphenyl	3748709	4014232	7.1

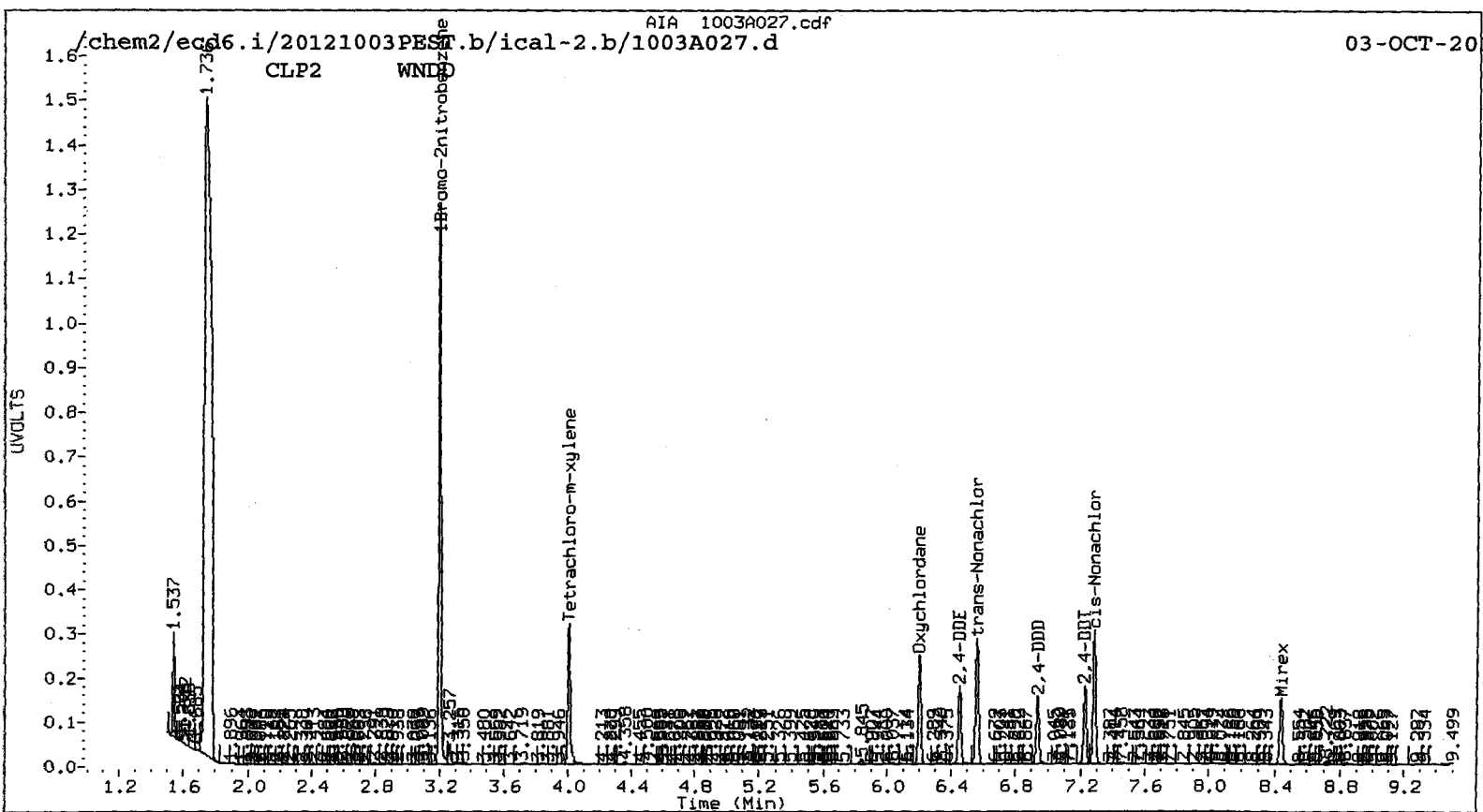
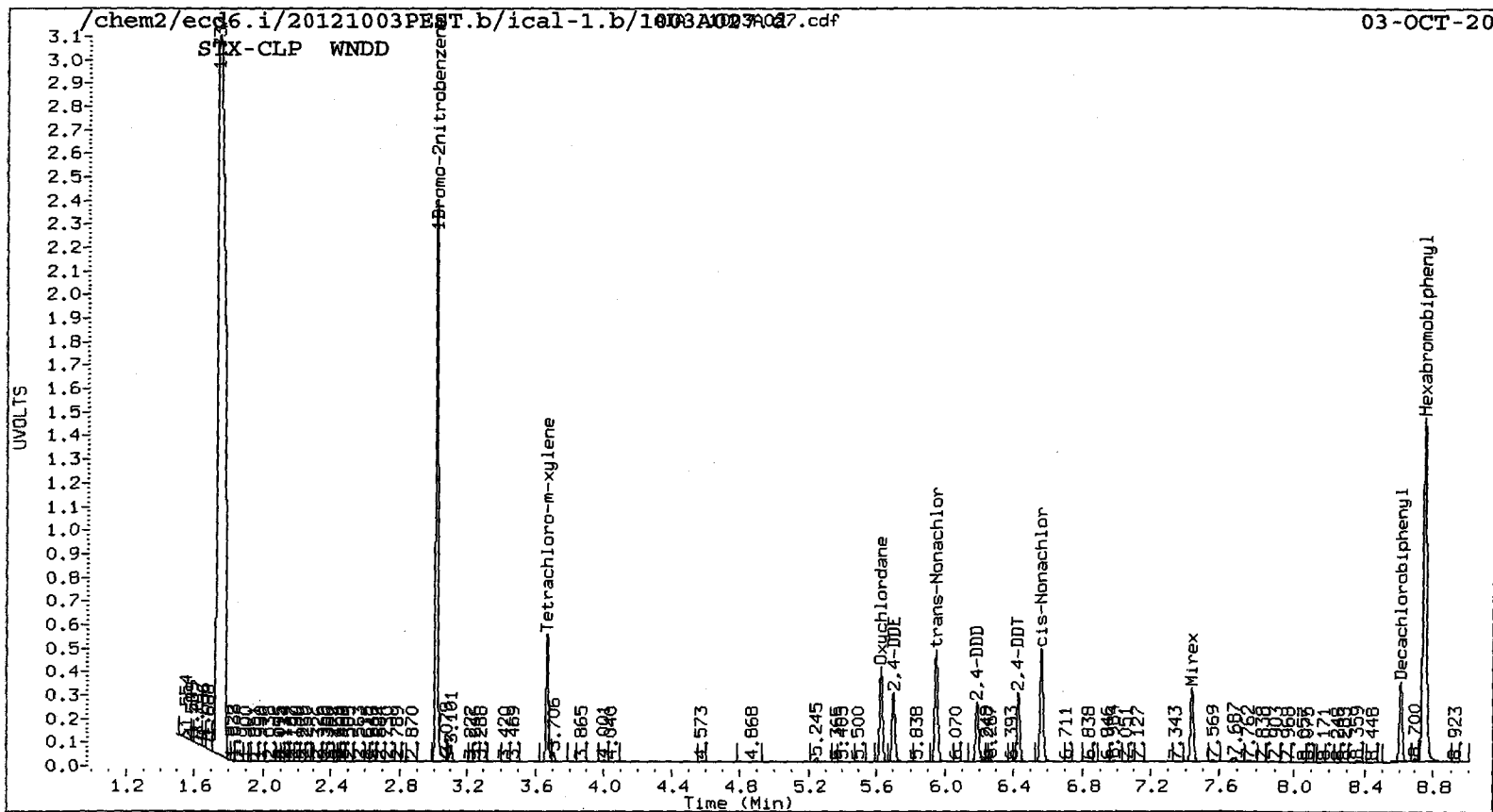
Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	22892989	8.8
Hexabromobiphenyl	14864285	16280005	9.5

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A028.d ARI ID: WNDF
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A028.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 20:48
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4252342	3.195 0.000 22617896	80.0000	80.0000	0.0	Hexachloroethane
5.627	0.000 3629742	6.203 0.000 20439310	73.9199	70.8655	4.2	1Bromo-2nitrobenzen
5.704	0.000 2663149	6.454 0.000 13690989	73.7899	65.6382	11.7	Oxychlorane
5.951	0.000 4403117	6.561 0.000 24239783	75.2884	71.4744	5.2	2,4-DDE
6.190	0.000 2372915	6.939 0.000 12674971	73.3940	69.3836	5.6	trans-Nonachlor
6.429	0.000 2734214	7.227 0.000 14151386	74.7088	71.0070	5.1	2,4-DDD
6.566	0.000 4752551	7.286 0.000 25544471	76.7184	72.0381	6.3	2,4-DDT
7.437	0.000 2912958	8.434 0.001 13503834	70.6431	68.8779	2.5	cis-Nonachlor
8.750	0.000 3949109	10.106 0.000 16310554	80.0000	80.0000	0.0	Mirex
3.670	0.000 3955027	4.007 -0.001 23250554	62.7695	59.1431	5.9	Hexabromobiphenyl
8.610	0.000 3084459	9.566 0.000 14901486	58.4426	59.4140	1.6	Tetrachloro-m-xylene
						Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	156.9	147.9	147.9~	150- 0
Decachlorobiphenyl	146.1	148.5	146.1~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4252342	4.7
Hexabromobiphenyl	3748709	3949109	5.3

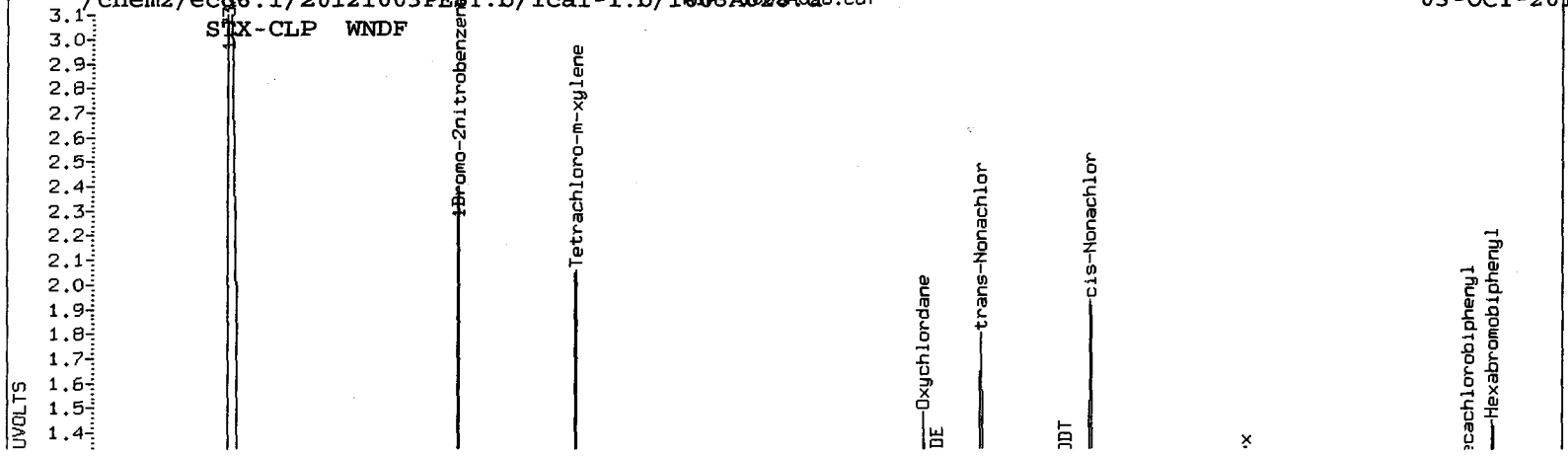
Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22617896	7.5
Hexabromobiphenyl	14864285	16310554	9.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A028.d ARI ID: WNDP
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A028.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 20:48
 Compound Sublist: WND Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4252342	3.195 0.000 22617896	3.195	0.000 22617896	80.0000	80.0000	0.0	Hexachloroethane
5.627	0.000 3629742	6.203 0.000 20439310	6.203	0.000 20439310	73.9199	70.8655	4.2	1Bromo-2nitrobenzen
5.704	0.000 2663149	6.454 0.000 13690989	6.454	0.000 13690989	73.7899	65.6382	11.7	Oxychlorane
5.951	0.000 4403117	6.561 0.000 24239783	6.561	0.000 24239783	75.2884	71.4744	5.2	2,4-DDE
6.190	0.000 2372915	6.939 0.000 12674971	6.939	0.000 12674971	73.3940	69.3836	5.6	trans-Nonachlor
6.429	0.000 2734214	7.227 0.000 14151386	7.227	0.000 14151386	74.7088	71.0070	5.1	2,4-DDD
6.566	0.000 4752551	7.286 0.000 25544471	7.286	0.000 25544471	76.7184	72.0381	6.3	2,4-DDT
7.437	0.000 2912958	8.434 0.001 13503834	8.434	0.001 13503834	70.6431	68.8779	6.3	cis-Nonachlor
8.750	0.000 3949109	10.106 0.000 16310554	10.106	0.000 16310554	80.0000	80.0000	2.5	Mirex
3.670	0.000 3955027	4.007 -0.001 23250554	4.007	-0.001 23250554	62.7695	59.1431	0.0	Hexabromobiphenyl
8.610	0.000 3084459	9.566 0.000 14901486	9.566	0.000 14901486	58.4426	59.4140	5.9	Tetrachloro-m-xylene
							1.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	156.9	147.9	147.9~	150- 0
Decachlorobiphenyl	146.1	148.5	146.1~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4252342	4.7
Hexabromobiphenyl	3748709	3949109	5.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22617896	7.5
Hexabromobiphenyl	14864285	16310554	9.7

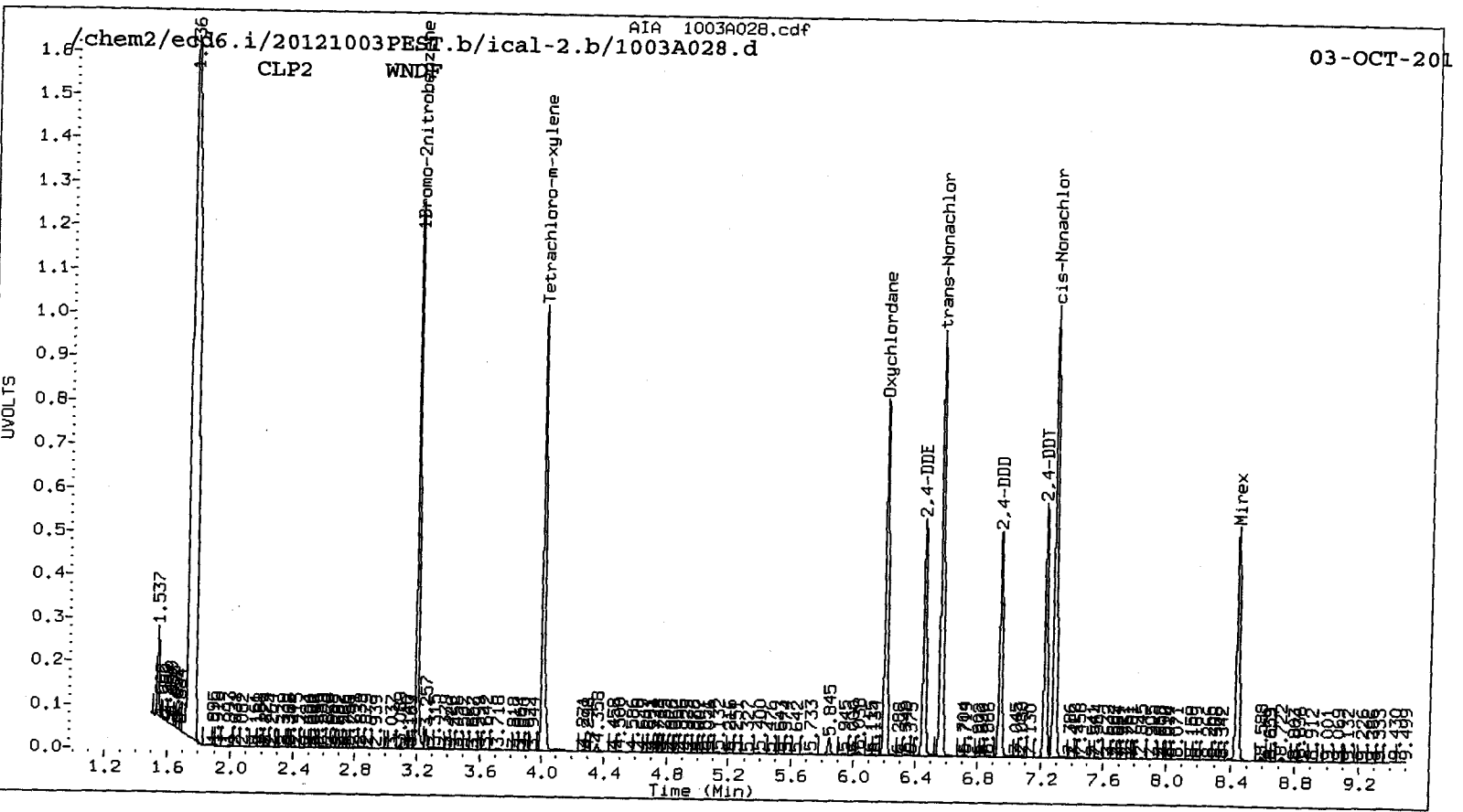
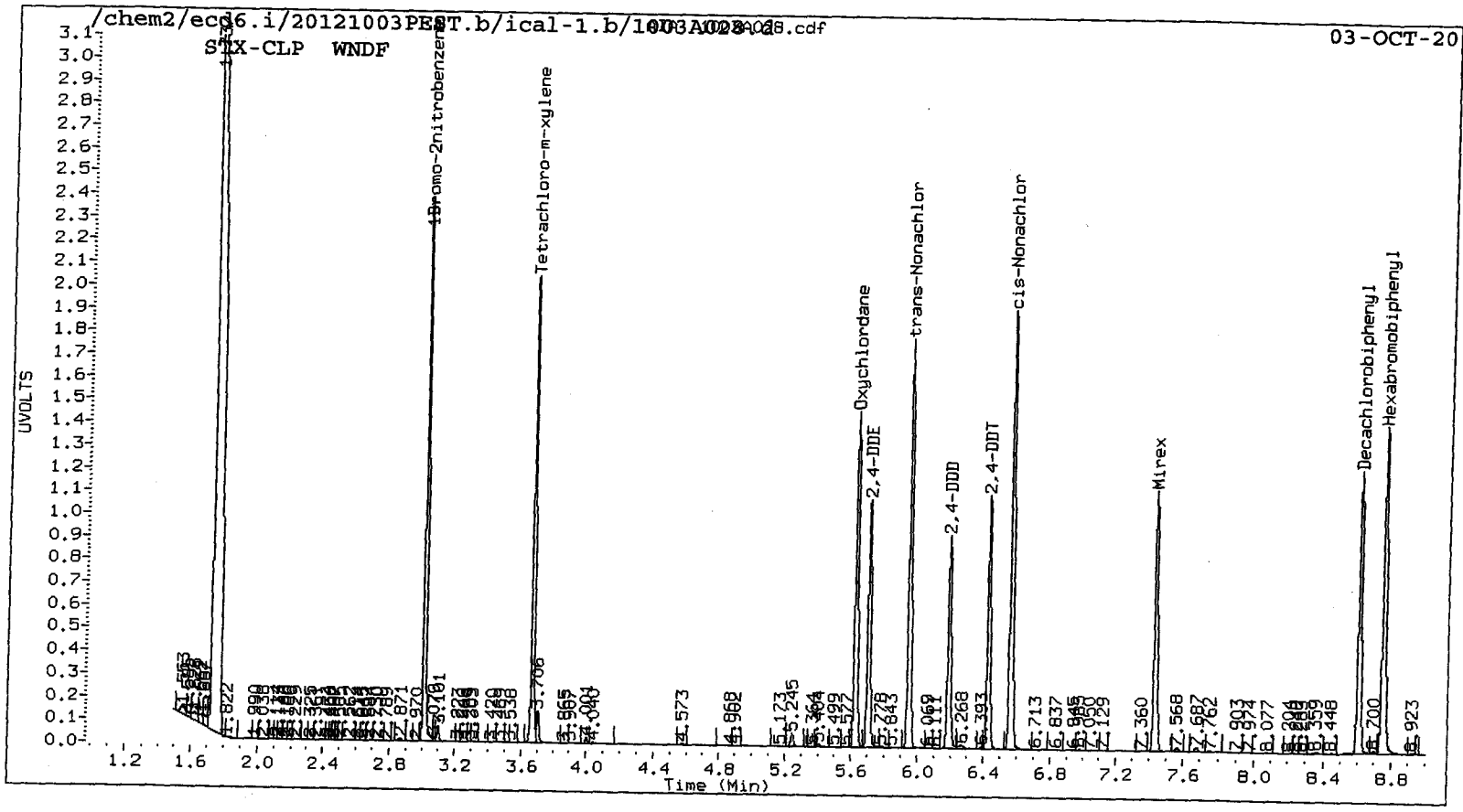
* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount

=====



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A029.d ARI ID: WNDG
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A029.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 21:06
 Compound Sublist: WND Report Date: 10/04/2012 11:00
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
----			----			0.0000	0.0000	---	Hexachloroethane
3.015	0.000	4304026	3.195	0.000	22734029	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.627	0.000	7041455	6.203	0.000	38165297	139.6029	131.6477	5.9	Oxychlorane
5.703	0.000	5090109	6.453	0.000	24267144	137.3013	115.7487	17.0	2,4-DDE
5.951	0.000	8634989	6.561	0.000	45482509	143.7395	130.4290	9.7	trans-Nonachlor
6.190	0.000	4624679	6.939	0.000	23191118	139.2535	123.4636	12.0	2,4-DDD
6.429	0.000	5275270	7.227	0.000	25903884	140.3235	126.4081	10.4	2,4-DDT
6.566	0.000	9360729	7.286	0.000	48743350	147.1053	133.6868	9.6	cis-Nonachlor
7.437	0.000	5682283	8.434	0.000	26268749	134.1544	130.3075	2.9	Mirex
8.750	0.000	4056513	10.106	0.000	16771085	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000	7659739	4.008	0.000	43193350	120.1065	109.3109	9.4	Tetrachloro-m-xyle
8.610	-0.001	6024511	9.565	-0.001	28926907	111.1268	112.1679	0.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	300.3	273.3	273.3~	150- 0
Decachlorobiphenyl	277.8	280.4	277.8~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

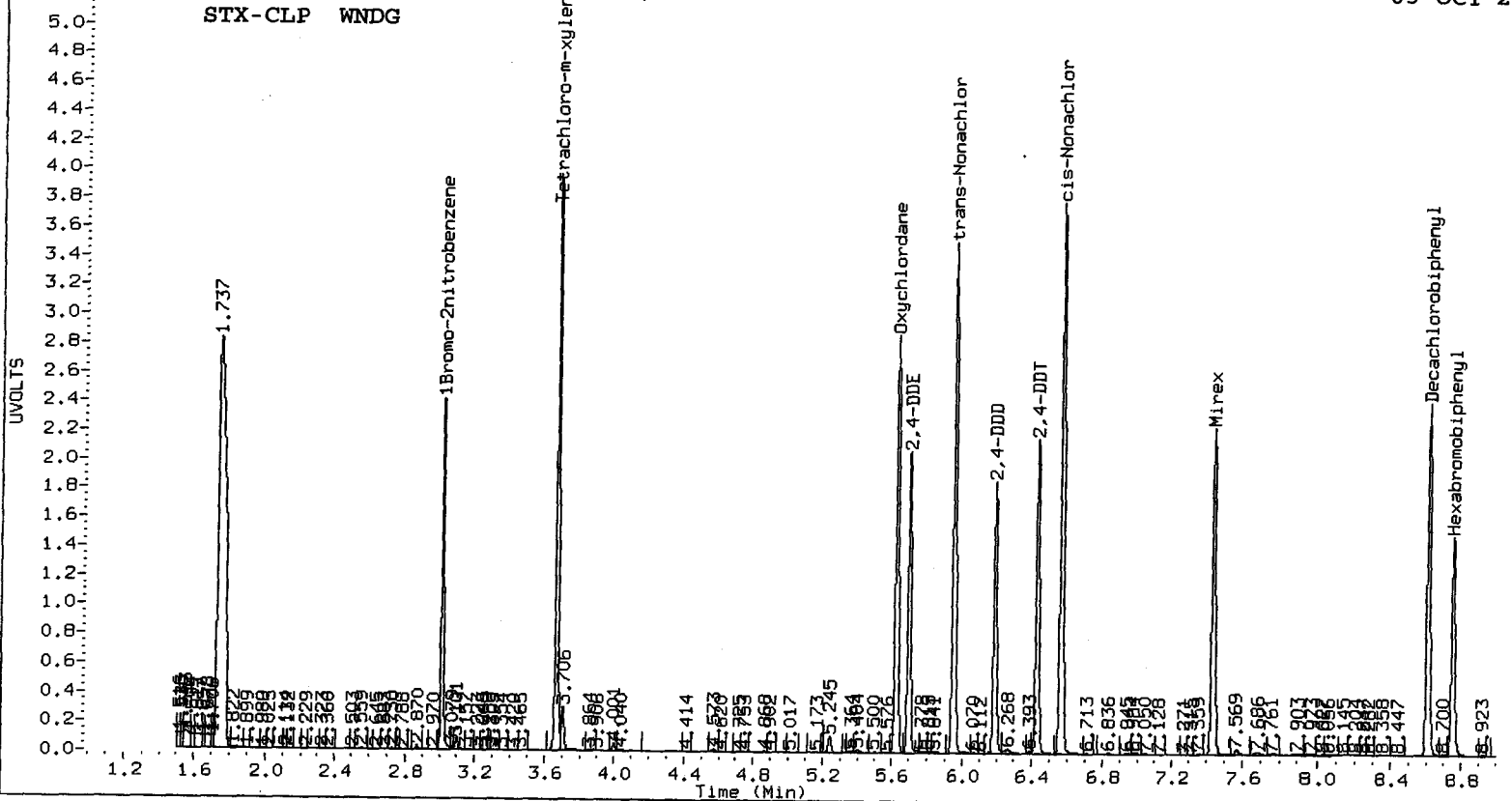
Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4304026	6.0
Hexabromobiphenyl	3748709	4056513	8.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22734029	8.1
Hexabromobiphenyl	14864285	16771085	12.8

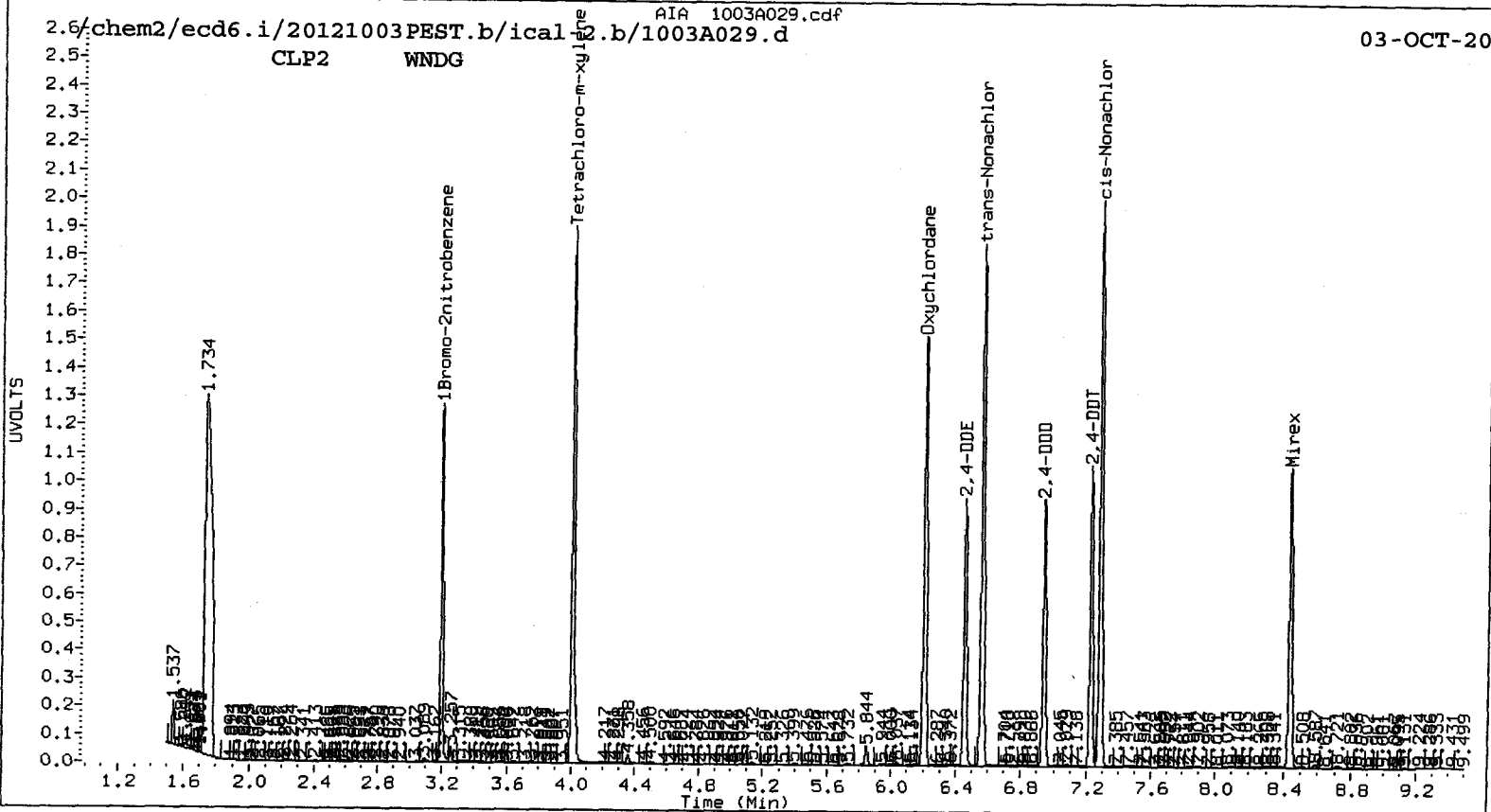
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			CLP2 Col			
			Shift	Height	Amount	Peak#	RT	Shift	Height
=====									

STX-CLP WNDG



CLP2 WNDG



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A031.d ARI ID: TECHLOR 200
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A031.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 04-OCT-2012 08:36
 Compound Sublist: wpest Report Date: 10/04/2012 11:00
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.024	0.010 3448624	3.204 0.009 23792648	3.204	0.009 23792648	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.136	-0.011 1617	4.559 -0.027 404237	4.559	-0.027 404237	0.0252	0.7788	187.5*	alpha-BHC
4.497	0.000 13042	5.027 0.021 56550	5.027	0.021 56550	0.4801	0.2692	56.3*	beta-BHC
4.708	0.046 12613	5.333 0.018 56186	5.333	0.018 56186	0.2435	0.1365	56.3*	delta-BHC
4.419	-0.005 19605	4.970 0.033 220612	4.970	0.033 220612	0.3320	0.4702	34.4	gamma-BHC (Lindane)
4.883	0.021 446809	5.413 0.015 3870545	5.413	0.015 3870545	8.3461	9.0097	7.6	Heptachlor
5.185	0.037 4629	5.748 0.012 119583	5.748	0.012 119583	0.0847	0.2831	107.9*	Aldrin
5.747	0.024 128873	6.330 0.037 334622	6.330	0.037 334622	2.4454	0.8787	94.3*	Heptachlor epoxide b
6.135	0.036 28170	6.687 0.007 228537	6.687	0.007 228537	0.5776	0.6683	14.6	Endosulfan I
6.356	0.034 39153	6.953 0.014 1095591	6.953	0.014 1095591	0.7766	3.0286	118.4*	Dieldrin
6.026	-0.002 16581	6.753 0.007 273520	6.753	0.007 273520	0.3562	0.7930	76.0*	4,4'-DDE
6.529	-0.011 15914	----	----	----	0.3685	0.0000	---	Endrin
6.761	0.015 22133	7.411 -0.006 465373	7.411	-0.006 465373	0.5308	1.5877	99.8*	Endosulfan II
----	----	7.267 -0.016 118481	7.267	-0.016 118481	0.0000	0.4278	---	4,4'-DDD
7.532	0.018 12372	7.964 0.004 17402	7.964	0.004 17402	0.3525	0.0706	133.3*	Endosulfan sulfate
6.854	0.012 8836	7.568 -0.002 188084	7.568	-0.002 188084	0.2331	0.7137	101.5*	4,4'-DDT
7.291	0.020 5011	8.135 -0.023 54825	8.135	-0.023 54825	0.2704	0.4876	57.3*	Methoxychlor
7.775	0.009 9195	8.457 0.008 71514	8.457	0.008 71514	0.2240	0.2905	25.8	Endrin ketone
7.166	0.043 5424	7.730 0.015 86779	7.730	0.015 86779	0.1613	0.3761	79.9*	Endrin aldehyde
5.862	0.020 1224025	6.488 0.012 8926279	6.488	0.012 8926279	23.3578	22.4693	3.9	gamma-Chlordane
5.984	0.016 1876835	6.627 0.012 7155992	6.627	0.012 7155992	37.1106	19.3197	63.1*	alpha-Chlordane
2.231	0.021 8444	2.368 -0.009 5727	2.368	-0.009 5727	0.1084	0.0111	162.9*	Hexachlorobutadiene
4.019	0.017 23403	4.472 0.014 49799	4.472	0.014 49799	0.4164	0.1115	115.5*	Hexachlorobenzene
5.639	0.012 7086	6.193 -0.010 164574	6.193	-0.010 164574	0.1803	0.5424	100.2*	Oxychlorane
5.680	-0.023 210668	6.411 -0.043 751696	6.411	-0.043 751696	7.2941	3.4259	72.2*	2,4-DDE
----	----	6.573 0.013 7048336	6.573	0.013 7048336	0.0000	19.9435	---	trans-Nonachlor
6.213	0.023 29847	6.929 -0.010 189136	6.929	-0.010 189136	1.1536	0.9935	14.9	2,4-DDD
6.414	-0.015 103725	7.208 -0.019 675609	7.208	-0.019 675609	3.5416	3.2531	8.5	2,4-DDT
6.584	0.018 232235	7.297 0.012 1615553	7.297	0.012 1615553	4.6846	4.3720	6.9	cis-Nonachlor
7.402	-0.035 1920	8.430 -0.003 32494	8.430	-0.003 32494	0.0582	0.1590	92.9*	Mirex
8.764	0.014 3160274	10.118 0.012 16997105	10.118	0.012 16997105	80.0000	80.0000	0.0	Hexabromobiphenyl
1.736	-0.001 135102	1.735 0.007 43351241	1.735	0.007 43351241	0.0000	0.0000	---	Hexachloroethane
3.686	0.016 1699027	4.022 0.014 13977002	4.022	0.014 13977002	33.2493	33.7983	1.6	Tetrachloro-m-xylene
8.623	0.012 1353174	9.576 0.010 8595161	9.576	0.010 8595161	32.0390	32.8857	2.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	83.1	84.5	83.1~	130- 0
Decachlorobiphenyl	80.1	82.2	80.1~	130- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	3448624	-15.1
Hexabromobiphenyl	3748709	3160274	-15.7

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	23792648	13.1
Hexabromobiphenyl	14864285	16997105	14.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

STX-CLP Col						CLP2 Col						
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount		
Toxaphene	1	6.498	0.002	51727	52.498	1	7.159	-0.004	187027	18.319		
Toxaphene	2	6.854	0.005	8836	6.583	2	7.473	-0.015	2253758	149.256		
Toxaphene	3	7.220	0.002	5437	4.802	3	7.730	0.011	86779	5.127		
Toxaphene	4	7.501	0.030	9982	6.887	4	8.207	0.022	23733	1.882		
Toxaphene	5	7.775	0.026	9195	7.447	5	8.569	0.036	96833	16.365		
Toxaphene	6	---	---	---	0.000	NS	---	---	---	---		
Total STX-CLPAve (5 peaks):					15.644	Total CLP2Ave (5 peaks):					38.190	RPD = 84*
Corrected Ave (4 peaks):					6.430	Corrected Ave (4 peaks):					10.423	RPD = 47*

Aroclor-1016	1	---	---	---	0.000	1	---	---	---	0.000
Aroclor-1016	2	---	---	---	0.000	2	---	---	---	0.000
Aroclor-1016	3	---	---	---	0.000	3	---	---	---	0.000
Aroclor-1016	4	---	---	---	0.000	4	---	---	---	0.000
Aroclor-1016	5	---	---	---	0.000	5	---	---	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1221	1	---	---	---	0.000	1	---	---	---	0.000
Aroclor-1221	2	---	---	---	0.000	2	---	---	---	0.000
Aroclor-1221	3	---	---	---	0.000	3	---	---	---	0.000
Aroclor-1221	4	---	---	---	0.000	4	---	---	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1232	1	---	---	---	0.000	1	---	---	---	0.000
Aroclor-1232	2	---	---	---	0.000	2	---	---	---	0.000
Aroclor-1232	3	---	---	---	0.000	3	---	---	---	0.000
Aroclor-1232	4	---	---	---	0.000	4	---	---	---	0.000
Aroclor-1232	5	---	---	---	0.000	5	---	---	---	0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1242	1	---	---	---	0.000	1	---	---	---	0.000
Aroclor-1242	2	---	---	---	0.000	2	---	---	---	0.000
Aroclor-1242	3	---	---	---	0.000	3	---	---	---	0.000
Aroclor-1242	4	---	---	---	0.000	4	---	---	---	0.000
Aroclor-1242	5	---	---	---	0.000	5	---	---	---	0.000

Aroclor-1242 6	---	0.000	NS	---	----
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	
Aroclor-1248 1	---	0.000	1	---	0.000
Aroclor-1248 2	---	0.000	2	---	0.000
Aroclor-1248 3	---	0.000	3	---	0.000
Aroclor-1248 4	---	0.000	4	---	0.000
Aroclor-1248 5	---	0.000	5	---	0.000
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	
Aroclor-1254 1	---	0.000	1	---	0.000
Aroclor-1254 2	---	0.000	2	---	0.000
Aroclor-1254 3	---	0.000	3	---	0.000
Aroclor-1254 4	---	0.000	4	---	0.000
Aroclor-1254 5	---	0.000	5	---	0.000
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	
Aroclor-1260 1	---	0.000	1	---	0.000
Aroclor-1260 2	---	0.000	2	---	0.000
Aroclor-1260 3	---	0.000	3	---	0.000
Aroclor-1260 4	---	0.000	4	---	0.000
Aroclor-1260 5	---	0.000	5	---	0.000
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	
Aroclor-1262 1	---	0.000	1	---	0.000
Aroclor-1262 2	---	0.000	2	---	0.000
Aroclor-1262 3	---	0.000	3	---	0.000
Aroclor-1262 4	---	0.000	4	---	0.000
Aroclor-1262 5	---	0.000	5	---	0.000
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	
Aroclor-1268 1	---	0.000	1	---	0.000
Aroclor-1268 2	---	0.000	2	---	0.000
Aroclor-1268 3	---	0.000	3	---	0.000
Aroclor-1268 4	---	0.000	4	---	0.000
Aroclor-1268 5	---	0.000	5	---	0.000
STX-CLPAve: <3 Quant Peaks				CLP2Ave: <3 Quant Peaks	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 10/4/2012

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A021.d ARI ID: INDA ICV
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A021.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 18:43
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

40 ppb

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4057143	3.195 0.000 21138967	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.147	-0.001 3074429	4.584 -0.001 18378917	40.6620	39.8545	2.0	alpha-BHC
4.497	0.000 1181624	5.006 -0.001 7143929	36.9708	38.2761	3.5	beta-BHC
4.662	0.000 2598439	5.313 -0.001 15223038	42.6347	41.6137	2.4	delta-BHC
4.424	0.000 2763631	4.936 -0.001 16461350	39.7846	39.4867	0.8	gamma-BHC (Lindane)
4.861	0.000 2411687	5.396 -0.001 14146924	38.2918	37.0644	3.3	Heptachlor
5.148	-0.001 2504153	5.735 -0.001 14254020	38.9336	37.9787	2.5	Aldrin
5.723	-0.001 2279591	6.293 0.000 12345356	36.7675	36.4885	0.8	Heptachlor epoxide
6.099	-0.001 2102230	6.680 0.000 11120271	36.6394	36.6014	0.1	Endosulfan I
6.322	0.000 2297277	6.938 -0.001 12314179	38.7345	38.3137	1.1	Dieldrin
6.027	-0.001 2146388	6.744 -0.001 11909930	39.1965	38.8636	0.9	4,4'-DDE
6.540	-0.001 1978483	7.227 -0.001 9856102	38.3376	37.3808	2.5	Endrin
6.746	-0.001 1842501	7.416 -0.001 9864604	36.9724	37.4293	1.2	Endosulfan II
6.583	-0.001 1790520	7.282 -0.001 9641482	39.7344	38.7187	2.6	4,4'-DDD
7.514	0.000 1598781	7.959 -0.001 8601713	38.1152	38.8141	1.8	Endosulfan sulfate
6.841	-0.001 1739237	7.570 -0.001 9110601	38.3862	38.4462	0.2	4,4'-DDT
7.271	0.000 880087	8.155 -0.003 4022159	39.7294	39.7835	0.1	Methoxychlor
7.766	0.000 1760424	8.448 -0.001 8124724	35.8888	36.7015	2.2	Endrin ketone
7.123	0.000 1474731	7.714 -0.001 7615275	36.6949	36.7037	0.0	Endrin aldehyde
5.842	0.000 2349214	6.475 -0.001 13162359	38.1057	37.2917	2.2	gamma-Chlordane
5.967	0.000 2273043	6.614 -0.001 12506328	38.2037	38.0032	0.5	alpha-Chlordane
2.193	-0.017 1807	2.362 -0.015 12546	0.0197	0.0273	32.4	Hexachlorobutadiene
4.001	-0.001 27205	4.461 0.003 8832	0.4115	0.0223	179.5*	Hexachlorobenzene
8.750	0.000 3776958	10.107 0.001 15282817	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 2032190	4.007 -0.001 12372043	33.8043	33.6729	0.4	Tetrachloro-m-xylen
8.610	0.000 1603716	9.566 0.000 7614502	31.7713	32.4016	2.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	84.5	84.2 ✓	84.2~	115- 0
Decachlorobiphenyl	79.4	81.0	79.4~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4057143	-0.1
Hexabromobiphenyl	3748709	3776958	0.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21138967	0.5
Hexabromobiphenyl	14864285	15282817	2.8

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col			
			Shift	Height	Amount			Shift	Height	Amount	
=====											

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 10/4/2012

Data file 1: /chem2/ecd6.i/20121003PEST.b/ical-1.b/1003A022.d ARI ID: HCB/HCBD ICV
 Data file 2: /chem2/ecd6.i/20121003PEST.b/ical-2.b/1003A022.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 03-OCT-2012 19:01
 Compound Sublist: INDA Report Date: 10/04/2012 10:59
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

HCB 40.5
HCB 46.5

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.015	0.000 4108826	3.195 0.000 21570699	3.195	0.000 21570699	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.132	-0.016 9833	---	---	---	0.1284	0.0000	---	alpha-BHC
4.490	-0.007 1200	5.011 0.004 13461	5.011	0.004 13461	0.0371	0.0707	62.4*	beta-BHC
4.658	-0.005 2560	5.328 0.014 31315	5.328	0.014 31315	0.0415	0.0839	67.7*	delta-BHC
4.424	0.000 1900	4.923 -0.014 21577	4.923	-0.014 21577	0.0270	0.0507	61.0*	gamma-BHC (Lindane)
4.874	0.013 1770	5.380 -0.017 31575	5.380	-0.017 31575	0.0277	0.0811	98.0*	Heptachlor
5.165	0.017 3506	5.731 -0.005 120740	5.731	-0.005 120740	0.0538	0.3153	141.7*	Aldrin
5.713	-0.010 3276	6.268 -0.025 19629	6.268	-0.025 19629	0.0522	0.0569	8.6	Heptachlor epoxide b
6.099	-0.001 1520	6.678 -0.002 16574	6.678	-0.002 16574	0.0262	0.0535	68.6*	Endosulfan I
6.305	-0.018 1350	6.935 -0.004 16280	6.935	-0.004 16280	0.0225	0.0496	75.3*	Dieldrin
6.024	-0.003 5681	6.743 -0.003 35432	6.743	-0.003 35432	0.1024	0.1133	10.1	4,4'-DDE
---	---	7.245 0.017 19495	7.245	0.017 19495	0.0000	0.0730	---	Endrin
6.747	0.001 1486	7.416 -0.001 11073	7.416	-0.001 11073	0.0292	0.0415	34.7	Endosulfan II
6.579	-0.005 4901	7.281 -0.002 25853	7.281	-0.002 25853	0.1066	0.1025	3.9	4,4'-DDD
---	---	7.957 -0.003 10971	7.957	-0.003 10971	0.0000	0.0489	---	Endosulfan sulfate
6.839	-0.003 1785	7.574 0.003 35374	7.574	0.003 35374	0.0386	0.1473	117.0*	4,4'-DDT
7.268	-0.003 1244	8.151 -0.008 8904	8.151	-0.008 8904	0.0550	0.0869	44.9*	Methoxychlor
7.761	-0.005 14192	8.450 0.002 12561	8.450	0.002 12561	0.2835	0.0560	134.0*	Endrin ketone
7.122	-0.001 2341	7.714 -0.001 18760	7.714	-0.001 18760	0.0571	0.0892	44.0*	Endrin aldehyde
5.820	-0.022 15975	6.480 0.004 160896	6.480	0.004 160896	0.2559	0.4467	54.3*	gamma-Chlordane
5.962	-0.005 5682	6.629 0.014 15054	6.629	0.014 15054	0.0943	0.0448	72.1*	alpha-Chlordane
2.210	0.000 3888916	2.377 -0.001 19016015	2.377	-0.001 19016015	41.9062	40.6043✓	3.2	Hexachlorobutadiene
4.001	-0.001 2344205	4.457 0.000 13237431	4.457	0.000 13237431	35.0089	32.6901✓	6.9	Hexachlorobenzene
8.750	0.000 3854595	10.106 0.000 15483729	10.106	0.000 15483729	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	-0.001 2238016	4.007 -0.001 13288246	4.007	-0.001 13288246	36.7598	35.4427	3.6	Tetrachloro-m-xylen
8.610	-0.001 1843167	9.565 -0.001 8743377	9.565	-0.001 8743377	35.7796	36.7224 ✓	2.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	91.9	88.6 ✓	88.6~	115- 0
Decachlorobiphenyl	89.4	91.8 ✓	89.4~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4108826	1.2
Hexabromobiphenyl	3748709	3854595	2.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21570699	2.6
Hexabromobiphenyl	14864285	15483729	4.2

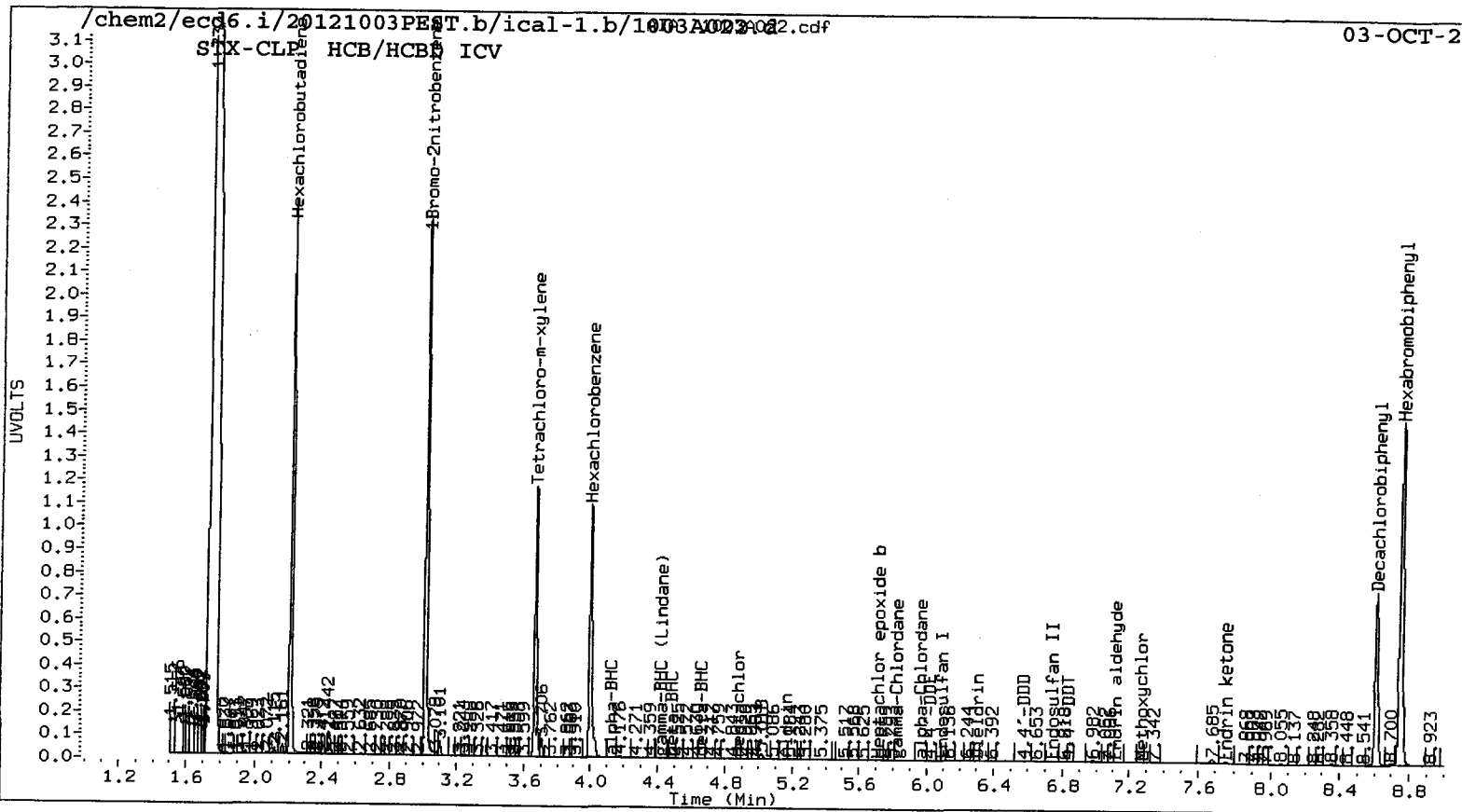
* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

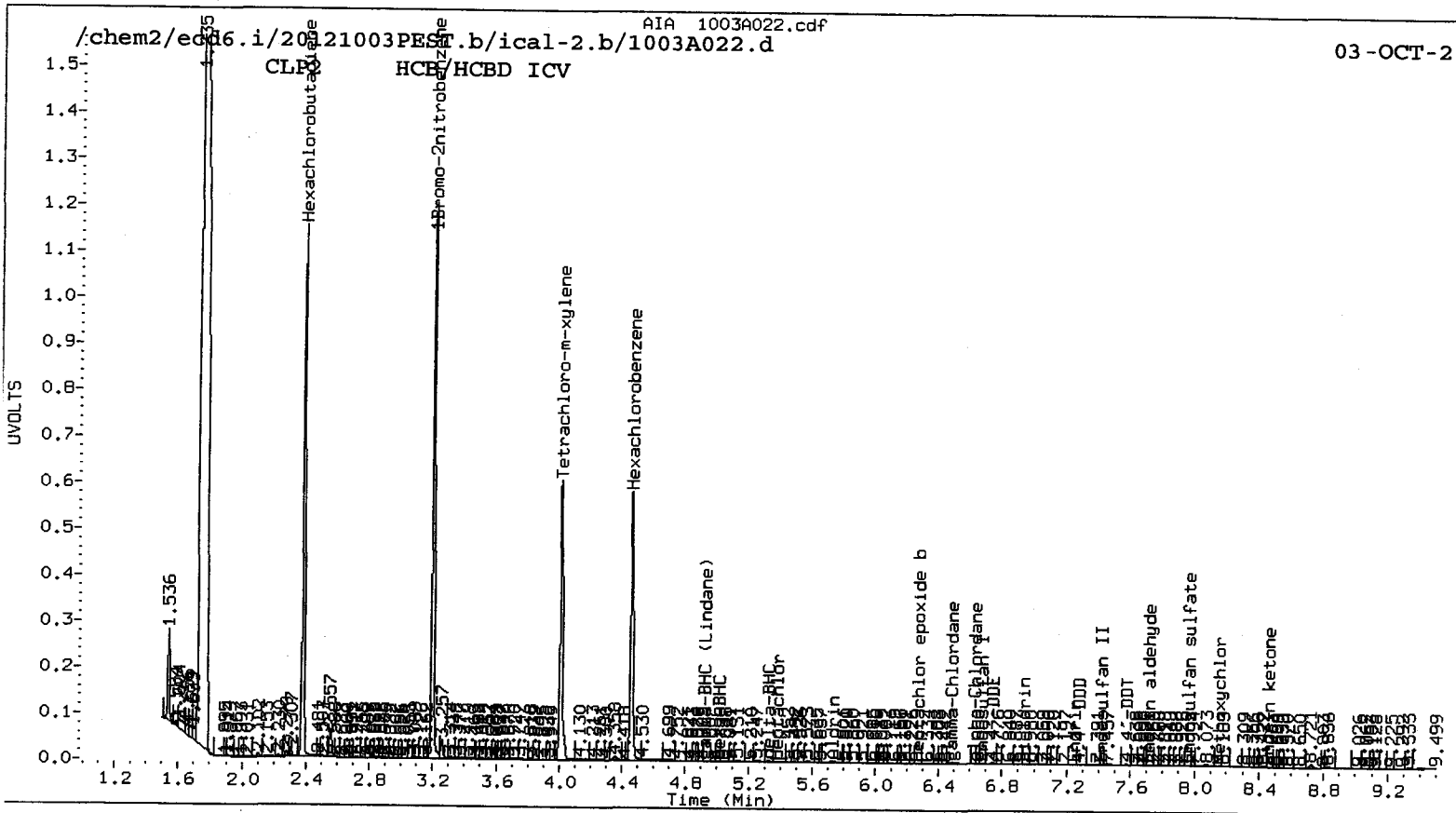
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										

STX-CLP HCB/HCBd ICV



CLP HCB/HCBd ICV



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 10/14/2012

Data file 1: /chem2/ecd6.i/20121003PEST.b/1004-1.b/1004A005.d ARI ID: WND ICV
Data file 2: /chem2/ecd6.i/20121003PEST.b/1004-2.b/1004A005.d Client ID:

Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m
Compound Sublist: WND

Injection Date: 04-OCT-2012 10:37

Instrument, Inj. Vol.: ecd6.i, 1ul

Report Date: 10/04/2012 11:22

Operator: ar

Matrix: NONE

Dilution Factor: 1.000

SOPpb

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
1.736	-0.002 365401	1.735 0.007 101180093	0.0000	0.0000	---	Hexachloroethane
3.015	0.000 3999972	3.195 0.001 21702262	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.627	0.000 2271967	6.203 0.000 13502749	48.5760	48.7908	0.4	Oxychlorthane
5.703	0.000 1639088	6.453 0.000 9289814	47.6801	46.4169	2.7	2,4-DDE
5.951	0.000 2637069	6.560 -0.001 15419993	47.3395	46.6591	1.4	trans-Nonachlor
6.191	0.000 1478651	6.939 0.001 8326433	48.0151	46.7734	2.6	2,4-DDD
6.429	0.000 1715418	7.227 0.001 9477142	49.2089	48.7989	0.8	2,4-DDT
6.566	0.000 2798568	7.286 0.000 15975934	47.4288	46.2341	2.6	cis-Nonachlor
7.437	0.000 1794119	8.433 0.000 8682821	45.6794	45.4479	0.5	Mirex
8.750	0.000 3761538	10.106 0.000 15894190	80.0000	80.0000	0.0	Hexabromobiphenyl
3.670	0.000 1999464	4.007 0.000 12936536	33.7353	34.2954	1.6	Tetrachloro-m-xylene
8.610	0.000 1604074	9.565 -0.001 7956634	31.9087	32.5551	2.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	84.3	85.7	84.3~	150- 0
Decachlorobiphenyl	79.8	81.4	79.8~	150- 0

~ Indicates recovery outside QC Limits

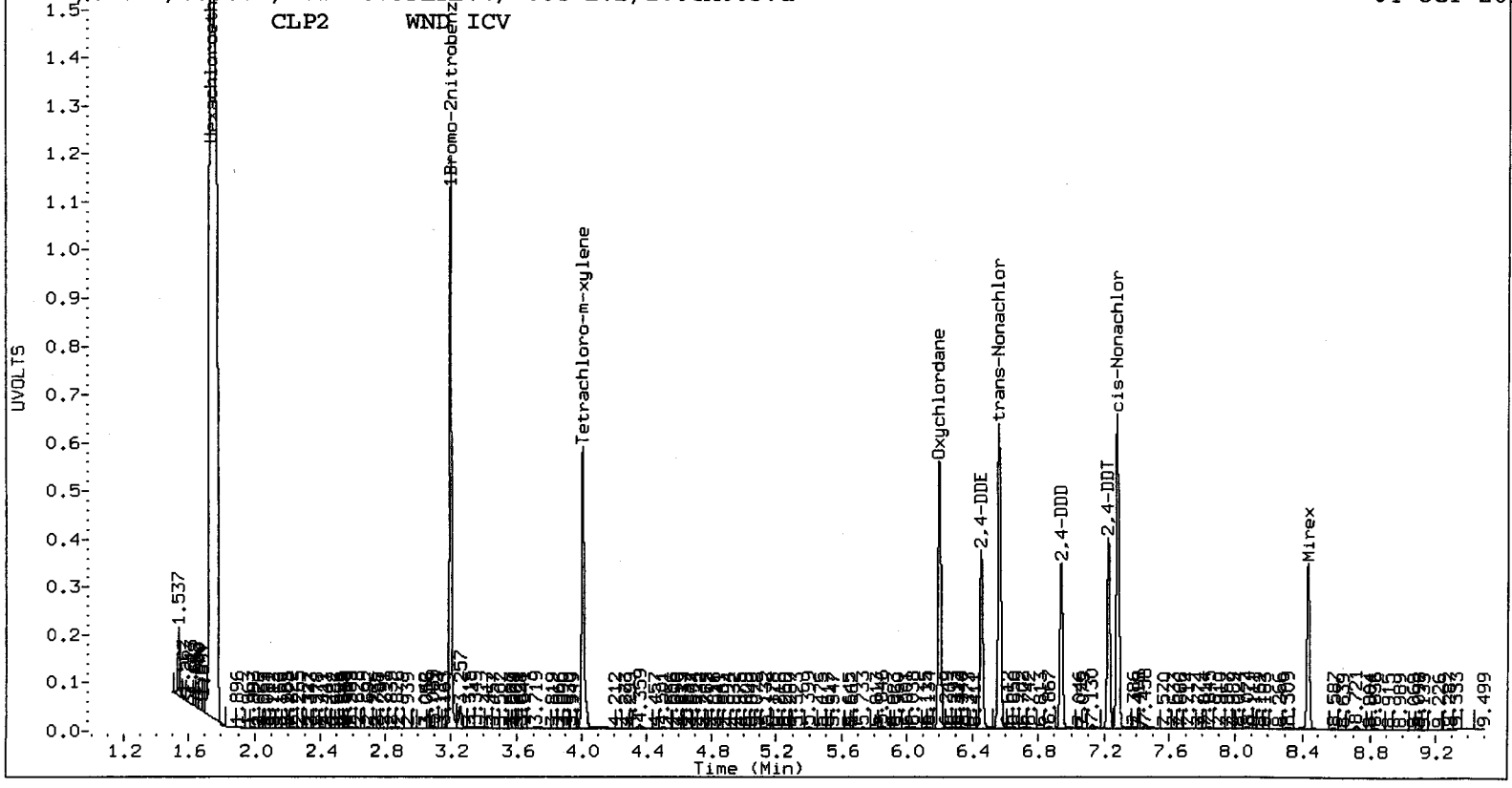
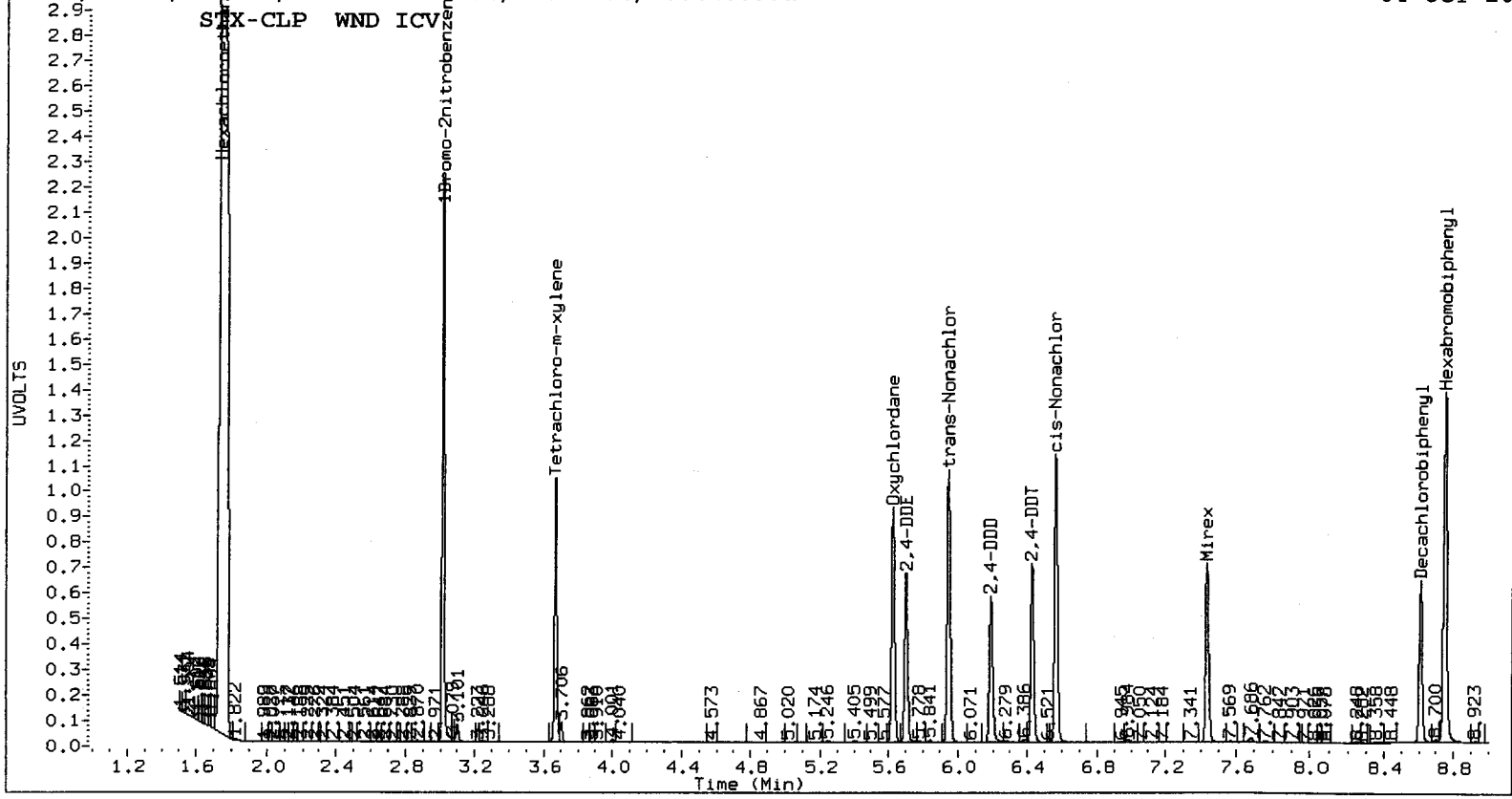
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	3999972	-1.5
Hexabromobiphenyl	3748709	3761538	0.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21702262	3.2
Hexabromobiphenyl	14864285	15894190	6.9

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col					CLP2 Col				
	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										



AR 10/4/2012

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

INDA I CV

Data file 1: /chem2/ecd6.i/20121003PEST.b/1004-1.b/1004A015.d ARI ID: 2023-1 ASSAY
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1004-2.b/1004A015.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 04-OCT-2012 13:35
 Compound Sublist: INDA Report Date: 10/04/2012 15:44
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

40 ppb

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.014	0.000 4336099	3.195 0.000 21737033	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.146	-0.001 3389959	4.584 -0.001 19607978	41.9508	41.3498	1.4	alpha-BHC
4.496	-0.001 1354216	5.006 -0.001 7868358	39.6451	40.9976	3.4	beta-BHC
4.662	-0.001 3173342	5.313 -0.001 18048951	48.7180	47.9811	1.5	delta-BHC
4.423	-0.001 3082889	4.936 -0.001 17527645	41.5254	40.8876	1.5	gamma-BHC (Lindane)
4.861	-0.001 2626366	5.396 -0.001 14723586	39.0177	37.5139	3.9	Heptachlor
5.147	-0.002 2765436	5.734 -0.001 15097733	40.2298	39.1199	2.8	Aldrin
5.722	-0.001 2511875	6.292 -0.001 12972153	37.9076	37.2862	1.7	Heptachlor epoxide
6.098	-0.001 2296090	6.679 -0.001 11388982	37.4436	36.4544	2.7	Endosulfan I
6.321	-0.001 2517394	6.937 -0.002 12624368	39.7153	38.1981	3.9	Dieldrin
6.026	-0.001 2318442	6.743 -0.002 12039917	39.6147	38.2068	3.6	4,4'-DDE
6.539	-0.001 2147321	7.226 -0.002 9854111	39.0054	39.0490	0.1	Endrin
6.745	-0.001 2094741	7.415 -0.001 10265980	39.4035	40.6987	3.2	Endosulfan II
6.583	-0.001 1943198	7.282 -0.001 9732622	40.4240	40.8371	1.0	4,4'-DDD
7.513	-0.001 1774757	7.959 -0.001 8684657	39.6628	40.9454	3.2	Endosulfan sulfate
6.840	-0.002 1852136	7.570 -0.001 8863356	38.3198	39.0799	2.0	4,4'-DDT
7.270	-0.001 1037293	8.155 -0.004 3896702	43.8958	40.2707	8.6	Methoxychlor
7.766	0.000 2013651	8.447 -0.002 8217450	38.4822	38.7848	0.8	Endrin ketone
7.123	0.000 1679565	7.714 -0.001 7942323	39.1764	39.9963	2.1	Endrin aldehyde
5.842	-0.001 2581745	6.474 -0.002 13702530	39.1833	37.7540	3.7	gamma-Chlordane
5.966	-0.001 2480664	6.613 -0.002 12856138	39.0109	37.9913	2.6	alpha-Chlordane
2.192	-0.019 2569	2.362 -0.015 6076	0.0262	0.0129	68.3*	Hexachlorobutadiene
4.000	-0.002 28731	4.458 0.000 5427	0.4066	0.0133	187.3*	Hexachlorobenzene
8.750	0.000 4029095	10.105 0.000 14626985	80.0000	80.0000	0.0	Hexabromobiphenyl
3.669	-0.001 2185035	4.006 -0.001 13004752	34.0084	34.4211	1.2	Tetrachloro-m-xylene
8.610	-0.001 1722941	9.565 -0.002 7427466	31.9973	33.0228	3.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	85.0	86.1	85.0~	115- 0
Decachlorobiphenyl	80.0	82.6	80.0~	115- 0

~ Indicates recovery outside QC Limits

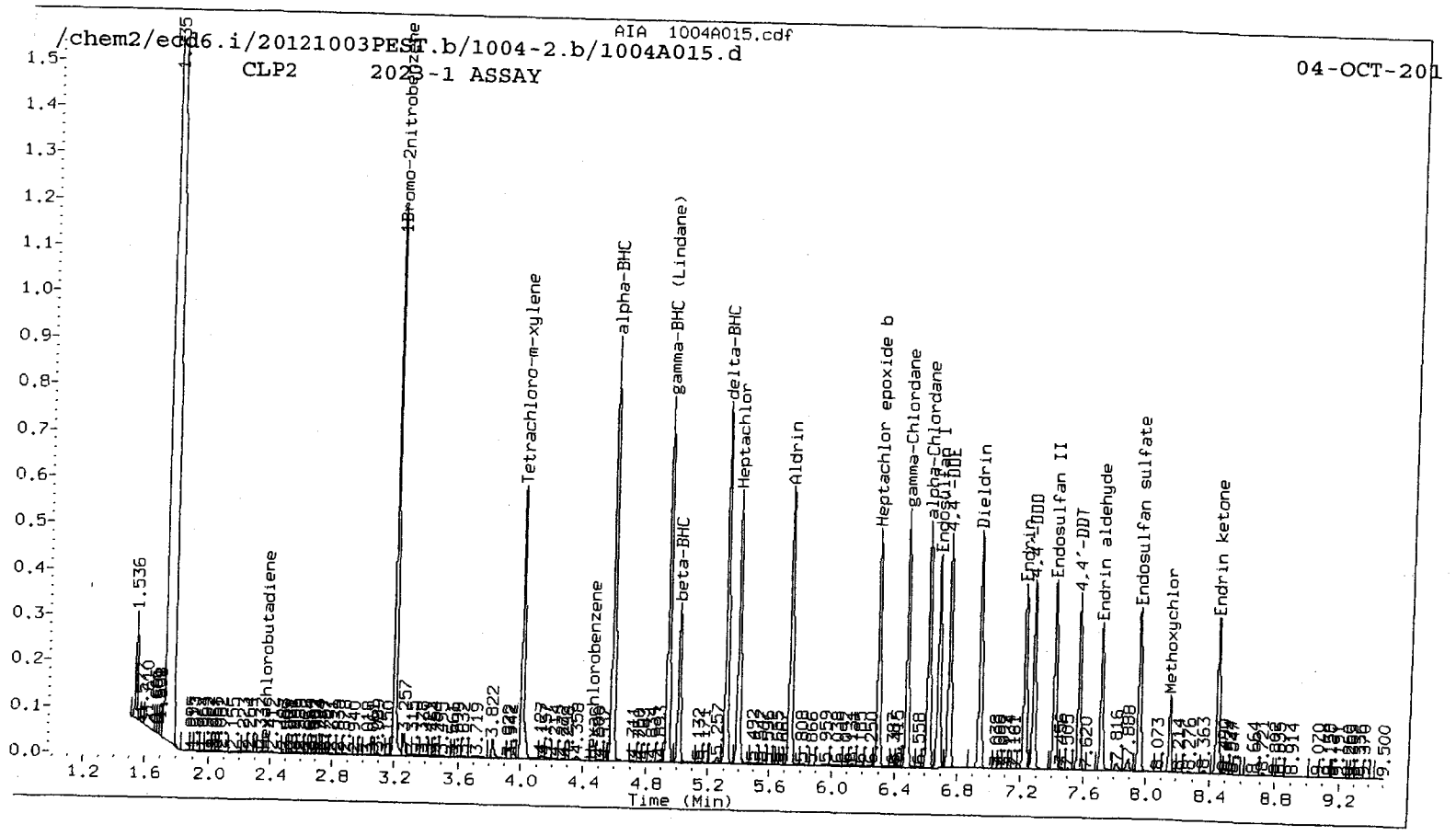
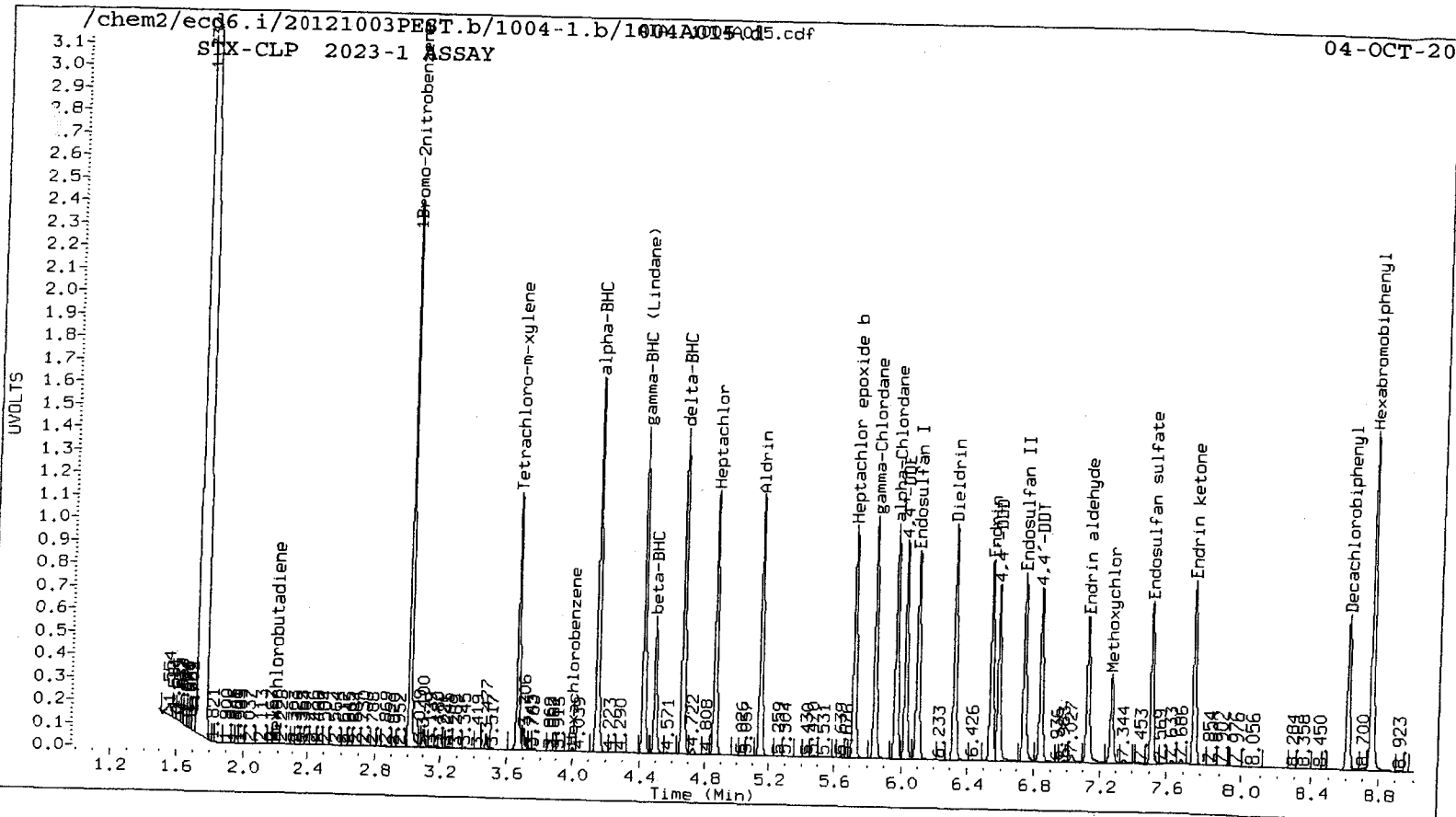
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4336099	6.8
Hexabromobiphenyl	3748709	4029095	7.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	21737033	3.3
Hexabromobiphenyl	14864285	14626985	-1.6

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			CLP2 Col				
			Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

YZ 10/17/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1012-1.b/1012A006.d ARI ID: TOXAPH
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1012-2.b/1012A006.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 12-OCT-2012 12:41
 Compound Sublist: TOXAPH Report Date: 10/17/2012 14:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.009	0.000	5080195	3.190	0.000	25258671	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
8.746	0.000	4970606	10.098	-0.002	15955179	80.0000	80.0000	0.0	Hexabromobiphenyl
3.666	-0.004	1976212	4.003	-0.005	11619834	26.2531	26.4675	0.8	Tetrachloro-m-xylen
8.606	-0.005	1739918	9.559	-0.008	7008012	26.1920	28.5641	8.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	65.6	66.2	65.6~	150- 0
Decachlorobiphenyl	65.5	71.4	65.5~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	5080195	25.1
Hexabromobiphenyl	3748709	4970606	32.6

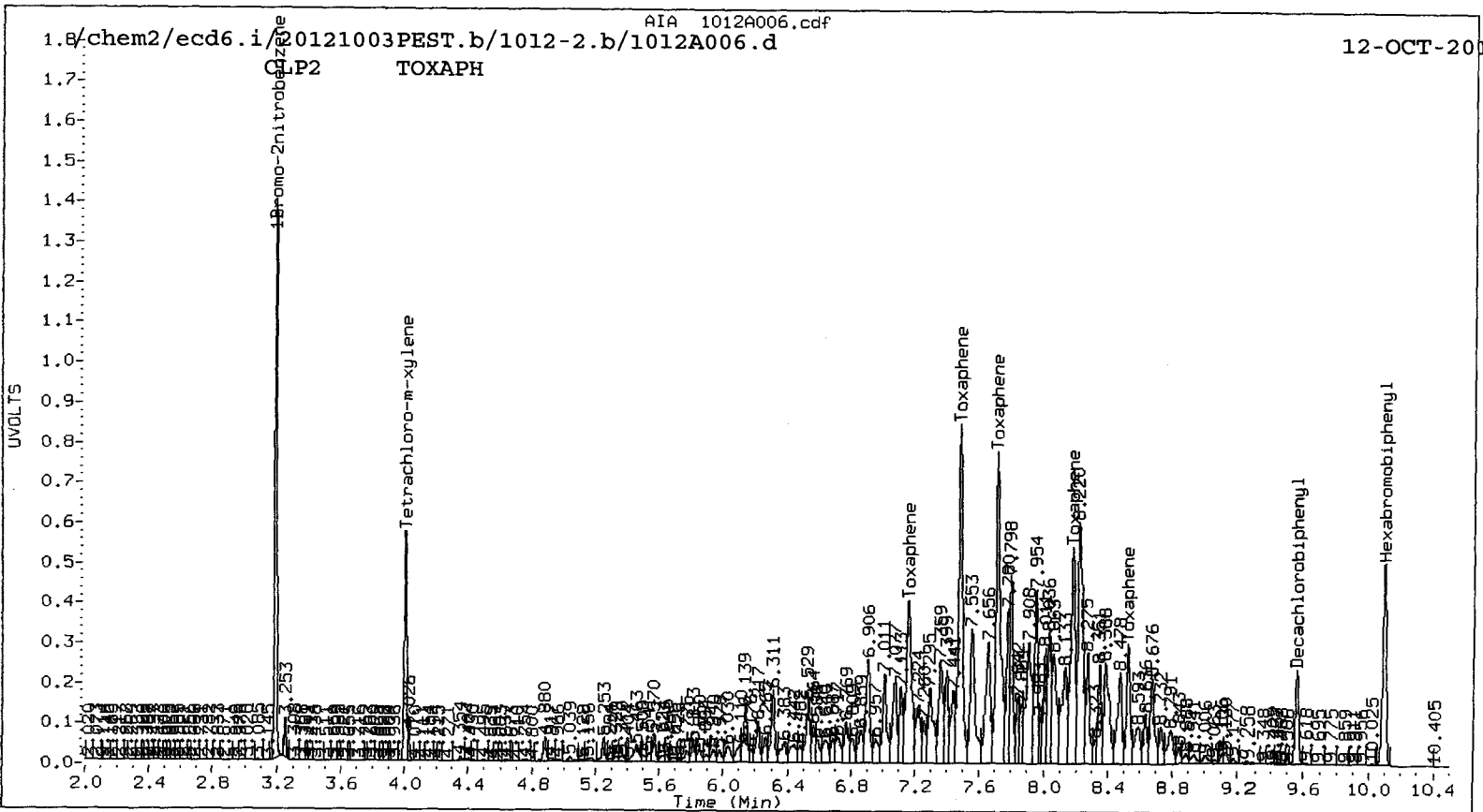
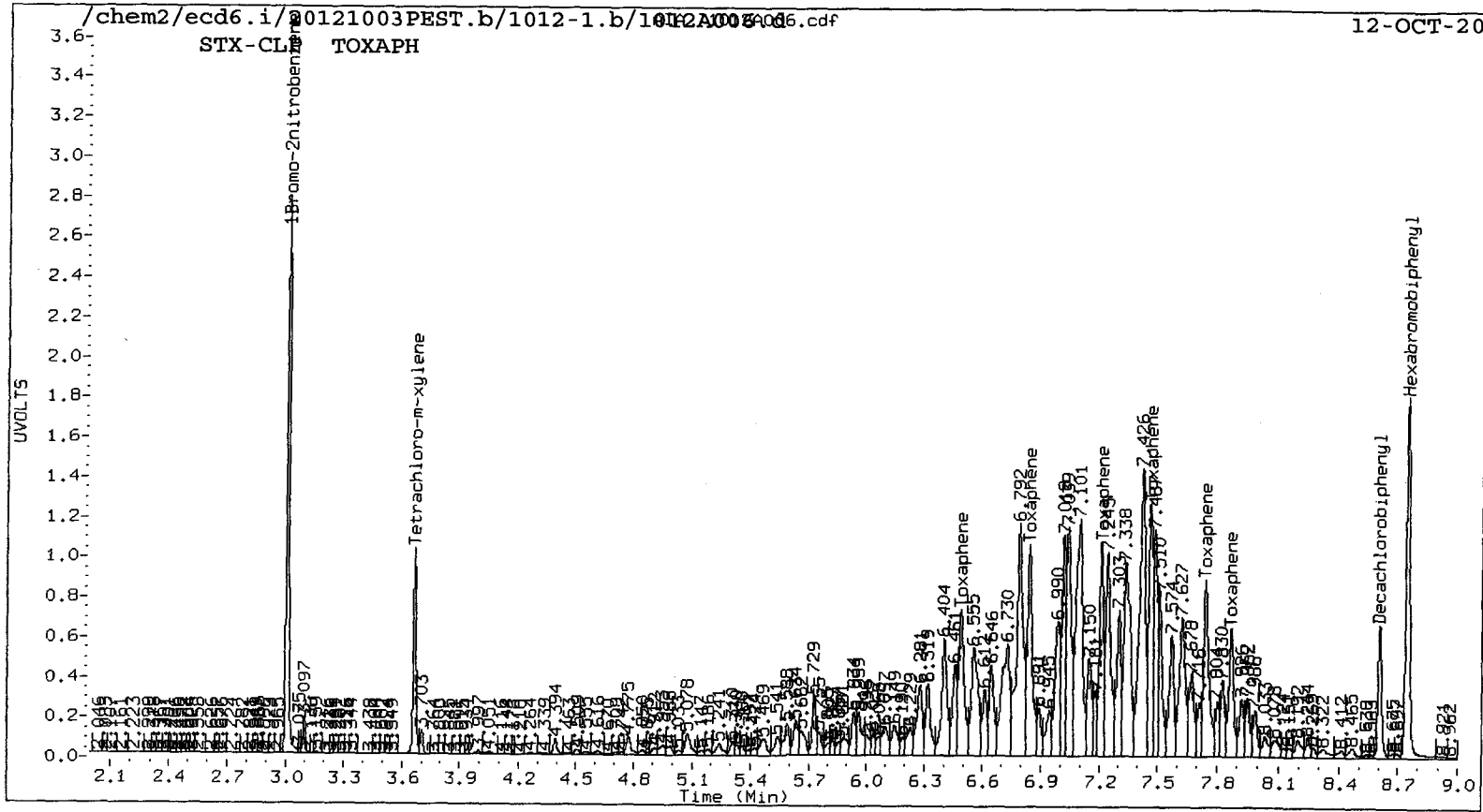
Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	25258671	20.1
Hexabromobiphenyl	14864285	15955179	7.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-OCT-2012

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col			
			Shift	Height	Amount			Shift	Height	Amount	
====	====	====	====	====	====	====	====	====	====	====	
Toxaphene	1	6.490	0.000	2836464	2500.000	1	7.158	0.000	19673196	2500.000	
Toxaphene	2	6.843	0.000	3787438	2500.000	2	7.483	0.000	28530140	2500.000	
Toxaphene	3	7.212	0.000	3066487	2500.000	3	7.713	0.000	30831903	2500.000	
Toxaphene	4	7.466	0.000	3757792	2500.000	4	8.180	0.000	21297174	2500.000	
Toxaphene	5	7.745	0.000	3214489	2500.000	5	8.527	0.000	9514481	2500.000	
Toxaphene	6	7.874	0.000	2200771	2500.000	NS	---			----	
Total STX-CLPAve (6 peaks): 2500.000					Total CLP2Ave (5 peaks): 2500.000					RPD = 0	
Corrected Ave (6 peaks): 2500.000					Corrected Ave (5 peaks): 2500.000					RPD = 0	



**Pesticide Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: VR82

GC Analyst Notes / Corrective Action Log

ARI Project ID: VR 82 Client ID: Anchor QEA

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) **423S(Pest)**
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): VR 82

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 **ECD-6** ECD-7

Dates: Curve: 10/03/12 Analysis Start: 11/29/12

Endrin/DDT Breakdown <15%?	YES / NO / NA	Method Blank In Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery In Control?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- Samples were run a 5x dilution due to dark color of the extracts
- Samples were run twice on 11/29/12 and 11/30/12 both time clearing coils + DDT break down failed due to matrix, 11/30/12 run reported.
- HCB, 4,4 DDD, DDEP were high in opening coils on CL₂, CLP, values reported.

Additional Details on Reverse: **Yes** / No

Analyst: Y2 Date: 12/09/12

Reviewer: MW Date: 12/3

Analytical Resources Inc.: Organics Instrument Log
ECD6 Serial No.: US0007128

Date: 11/30/12 Analysis: PAT Analyst: Y2
 Column 1 Serial No.: 1085684 Column Type: STN CAP
 Column 2 Serial No.: 1094709 Column Type: STN CAP
 GC Method: PBST ICal Date: 10/03/12

IS	ICal/Ccal	ICV
<u>20007</u>	<u>1985-3</u>	
	<u>1982-1,2,3</u>	
	<u>1984-3</u>	

Document All Maintenance Tasks In StarLIMS

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20121003PEST.b/1130-1.b

Inject	Date/Time	Filename	DF	LabID	ClientID
1	30-NOV-2012 15:59	1130A007.d	1	DS	
2	30-NOV-2012 16:17	1130A008.d	1	INDAE	
3	30-NOV-2012 16:34	1130A009.d	1	WNDE	
4	30-NOV-2012 16:52	1130A010.d	1	VR82MBS1	VR82MBS1
5	30-NOV-2012 17:10	1130A011.d	1	VR82LCSS1	VR82LCSS1
6	30-NOV-2012 17:28	1130A012.d	5	VR82A	SG-02-S-C-121108
7	30-NOV-2012 17:46	1130A013.d	5	VR82B	SG-03-S-C-121108
8	30-NOV-2012 18:03	1130A014.d	5	VR82C	SG-04-S-C-121108
9	30-NOV-2012 18:21	1130A015.d	5	VR82D	SG-05-S-C-121108
10	30-NOV-2012 18:39	1130A016.d	5	VR82E	SG-06-S-C-121108
11	30-NOV-2012 18:57	1130A017.d	5	VR82F	SG-07-S-C-121108
12	30-NOV-2012 19:15	1130A018.d	1	DS	
13	30-NOV-2012 19:32	1130A019.d	1	INDAE	
14	30-NOV-2012 19:50	1130A020.d	1	WNDE	
15	30-NOV-2012 20:08	1130A021.d	5	VR82G	SG-07-S-C-dup-12110
16	30-NOV-2012 20:26	1130A022.d	5	VR82H	SG-08-S-C-121108
17	30-NOV-2012 20:44	1130A023.d	5	VR82HMS	SG-08-S-C-12110 MS
18	30-NOV-2012 21:01	1130A024.d	5	VR82HMSD	SG-08-S-C-12110 MSD
19	30-NOV-2012 21:19	1130A025.d	5	VR82I	SG-09-S-C-121108
20	30-NOV-2012 21:37	1130A026.d	1	DS	
21	30-NOV-2012 21:55	1130A027.d	1	INDAE	
22	30-NOV-2012 22:13	1130A028.d	1	WNDE	

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

YZ 12/01/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A008.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A008.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 16:17
 Compound Sublist: INDA Report Date: 12/01/2012 11:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.998	-0.012	5538796	3.180	-0.010	26418809	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.130	-0.018	2231678	4.567	-0.018	12198539	21.6202	21.1659	2.1	alpha-BHC
4.497	0.000	891254	4.999	-0.008	4776425	20.4261	20.4769	0.2	beta-BHC
4.661	-0.001	1776886	5.303	-0.012	8695483	21.3558	19.0195	11.6	delta-BHC
4.407	-0.017	1939234	4.918	-0.019	10605924	20.4489	20.3565	0.5	gamma-BHC (Lindane)
4.839	-0.022	1790696	5.374	-0.023	9900295	20.8263	20.7546	0.3	Heptachlor
5.124	-0.024	1828939	5.712	-0.024	9876186	20.8290	21.0554	1.1	Aldrin
5.697	-0.027	1702747	6.270	-0.024	8630776	20.1170	20.4114	1.5	Heptachlor epoxide b
6.074	-0.026	1689876	6.657	-0.023	7684639	21.5739	20.2384	6.4	Endosulfan I
6.295	-0.027	3408455	6.915	-0.024	15989188	42.0966	39.8057	5.6	Dieldrin
6.010	-0.017	3149551	6.726	-0.019	15825348	42.1302	41.3197	1.9	4,4'-DDE
6.514	-0.027	2825572	7.204	-0.024	12249828	41.4034	46.1971	10.9	Endrin
6.722	-0.024	2636920	7.395	-0.022	12411353	40.0132	46.8265	15.7	Endosulfan II
6.567	-0.017	2844486	7.265	-0.018	12688933	47.7340	50.6690	6.0	4,4'-DDD
7.486	-0.027	2278533	7.937	-0.023	9679013	41.0773	43.4287	5.6	Endosulfan sulfate
6.822	-0.020	2488916	7.551	-0.020	9870084	41.5397	41.4160	0.3	4,4'-DDT
7.251	-0.019	5626632	8.136	-0.022	19581406	192.0756	192.5877	0.3	Methoxychlor
7.740	-0.027	2736262	8.425	-0.024	9885682	42.1828	44.4041	5.1	Endrin ketone
7.097	-0.026	2143185	7.692	-0.023	9274808	40.3264	44.4498	9.7	Endrin aldehyde
5.820	-0.022	1731605	6.455	-0.021	8683427	20.5741	19.6852	4.4	gamma-Chlordane
5.943	-0.025	1621043	6.592	-0.023	7912866	19.9571	19.2395	3.7	alpha-Chlordane
2.194	-0.016	2504211	2.362	-0.016	9480690	20.0181	16.5289	19.1	Hexachlorobutadiene
3.996	-0.006	1905452	4.449	-0.009	13095181	21.1097	26.4043	22.3	Hexachlorobenzene
8.736	-0.010	4994655	10.077	-0.021	15369595	80.0000	80.0000	0.0	Hexabromobiphenyl
3.659	-0.011	3009307	3.995	-0.013	18746357	36.6673	40.8251	10.7	Tetrachloro-m-xylene
8.587	-0.023	2625545	9.537	-0.029	11715462	39.3336	49.5707	23.0	Decachlorobiphenyl

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	91.7	102.1	91.7~	115- 0
Decachlorobiphenyl	98.3	123.9	98.3~	115- 0

~ Indicates recovery outside QC Limits

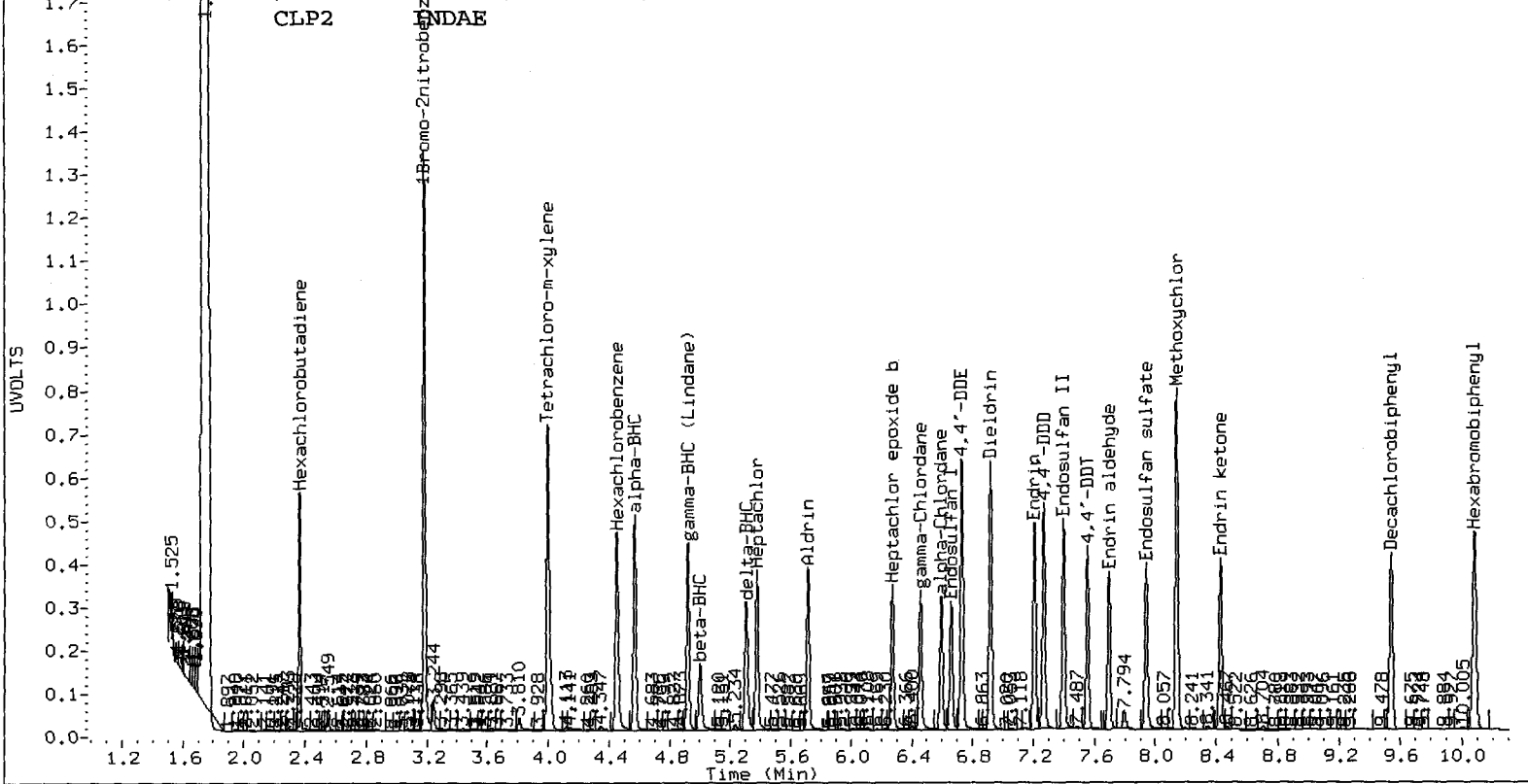
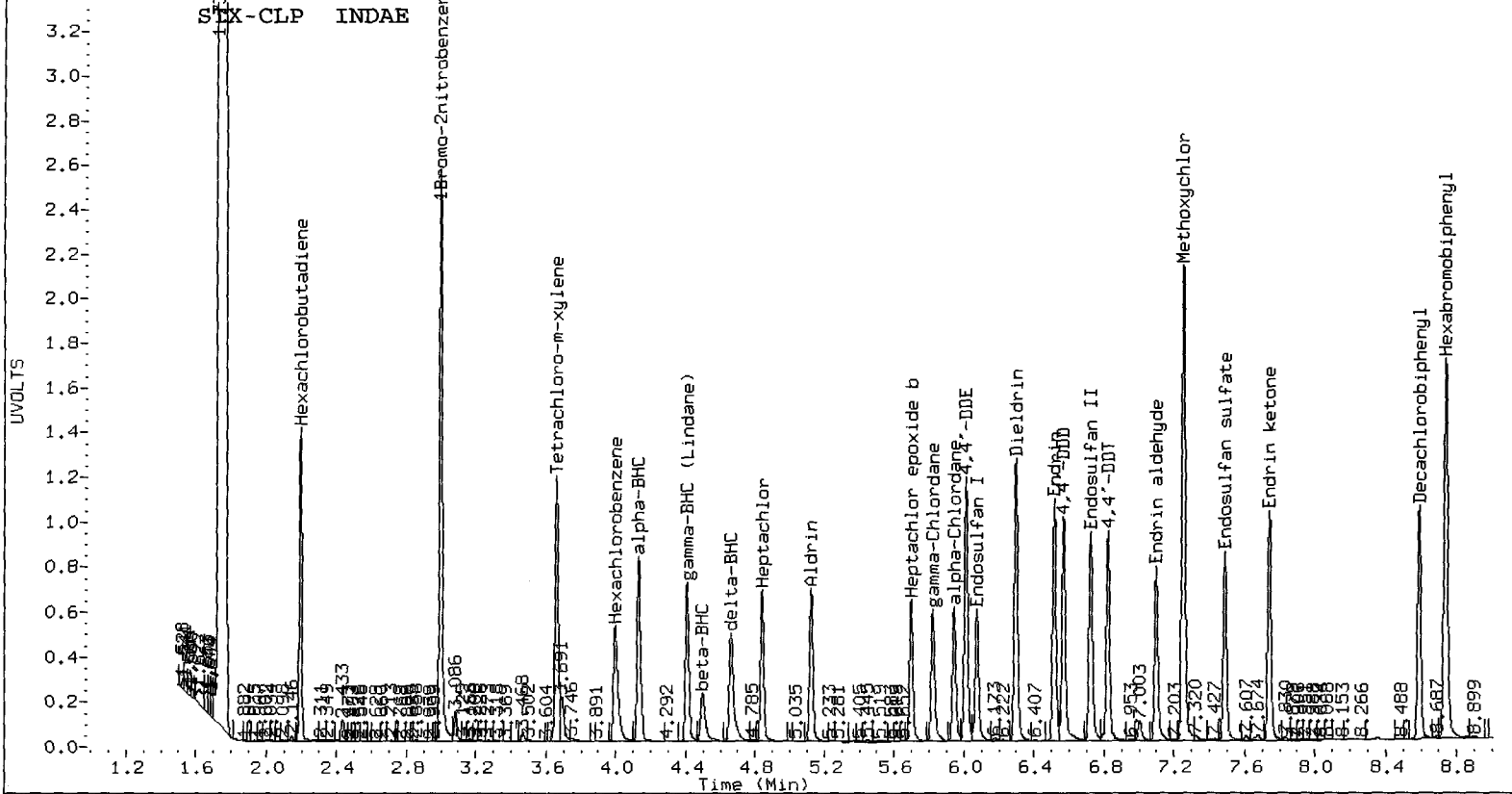
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	5538796	36.4
Hexabromobiphenyl	3748709	4994655	33.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	26418809	25.6
Hexabromobiphenyl	14864285	15369595	3.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A009.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A009.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 16:34
 Compound Sublist: WND Report Date: 12/01/2012 11:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
1.730	-0.008	47823	1.729	0.001	15108348	0.0000	0.0000	---	Hexachloroethane
2.999	-0.011	4658075	3.181	-0.010	22815103	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.603	-0.024	2107261	6.181	-0.022	11487263	39.7575	39.4835	0.7	Oxychlorane
5.691	-0.012	1725407	6.437	-0.016	8761684	44.2902	41.6427	6.2	2,4-DDE
5.929	-0.022	2662901	6.541	-0.020	12011256	42.1830	42.4110	0.5	trans-Nonachlor
6.179	-0.011	1622165	6.923	-0.015	7752989	46.4823	50.8214	8.9	2,4-DDD
6.413	-0.016	1601256	7.209	-0.018	7284370	40.5336	43.7685	7.7	2,4-DDT
6.545	-0.021	2925560	7.266	-0.020	13600942	43.7518	45.9306	4.9	cis-Nonachlor
7.413	-0.024	1737171	8.411	-0.023	6194184	39.0295	37.8333	3.1	Mirex
8.739	-0.007	4262697	10.080	-0.018	13620753	80.0000	80.0000	0.0	Hexabromobiphenyl
3.661	-0.009	2627869	3.996	-0.011	13940423	38.0737	35.1542	8.0	Tetrachloro-m-xylene
8.589	-0.021	1939382	9.538	-0.028	8957320	34.0431	42.7666	22.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	95.2	87.9	87.9~	150- 0
Decachlorobiphenyl	85.1	106.9	85.1~	150- 0

~ Indicates recovery outside QC Limits

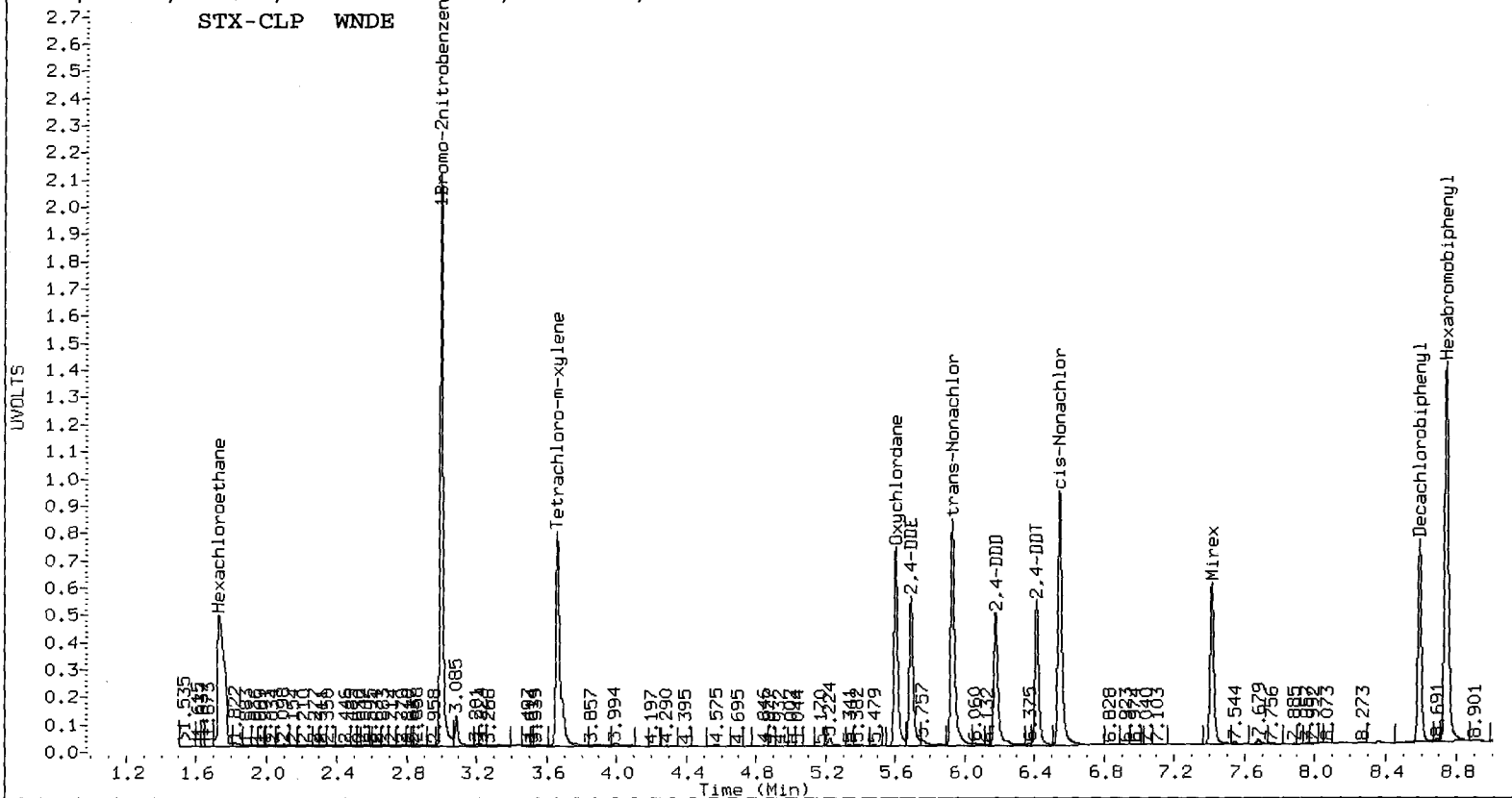
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4658075	14.7
Hexabromobiphenyl	3748709	4262697	13.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	22815103	8.5
Hexabromobiphenyl	14864285	13620753	-8.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A010.d ARI ID: VR82MBS1
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A010.d Client ID: VR82MBS1
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 16:52
 Compound Sublist: wpest Report Date: 12/01/2012 11:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4655011	3.179	-0.012	20895374	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.161	0.014	5450	4.570	-0.015	139369	0.0628	0.3057	131.8*	alpha-BHC
4.495	-0.003	5367	5.024	0.017	213157	0.1464	1.1554	155.0*	beta-BHC
4.631	-0.032	2385	5.280	-0.035	77320	0.0341	0.2138	145.0*	delta-BHC
4.399	-0.025	1268	4.949	0.013	52489	0.0159	0.1274	155.6*	gamma-BHC (Lindane)
4.857	-0.004	1956	5.365	-0.032	108232	0.0271	0.2869	165.5*	Heptachlor
5.145	-0.003	4817	5.701	-0.034	954339	0.0653	2.5724	190.1*	Aldrin
5.706	-0.017	2869	6.258	-0.035	198640	0.0403	0.5940	174.6*	Heptachlor epoxide b
6.082	-0.018	5837	6.653	-0.027	155056	0.0887	0.5163	141.4*	Endosulfan I
6.287	-0.036	6320	6.972	0.033	42833	0.0929	0.1348	36.8	Dieldrin
6.005	-0.023	5038	6.724	-0.021	89528	0.0802	0.2955	114.6*	4,4'-DDE
6.502	-0.039	2400	7.226	-0.002	30024	0.0393	0.1330	108.8*	Endrin
6.737	-0.009	7710	7.434	0.018	58585	0.1306	0.2596	66.1*	Endosulfan II
6.579	-0.005	20054	7.260	-0.023	18163	0.3758	0.0852	126.1*	4,4'-DDD
7.511	-0.003	12062	8.003	0.042	41338	0.2428	0.2178	10.9	Endosulfan sulfate
6.820	-0.023	16460	7.550	-0.021	53766	0.3068	0.2650	14.6	4,4'-DDT
7.231	-0.040	15717	8.135	-0.023	22852	0.5992	0.2640	77.7*	Methoxychlor
7.742	-0.025	32811	8.434	-0.015	10546	0.5649	0.0556	164.1*	Endrin ketone
7.096	-0.027	6960	7.716	0.001	15636	0.1462	0.0880	49.7*	Endrin aldehyde
5.817	-0.025	1120	6.463	-0.013	164506	0.0158	0.4715	187.0*	gamma-Chlordane
5.944	-0.024	5365	----	----	----	0.0786	0.0000	---	alpha-Chlordane
2.205	-0.005	72577	2.388	0.010	304999	0.6903	0.6723	2.6	Hexachlorobutadiene
3.987	-0.016	71133	4.442	-0.016	363322	0.9377	0.9262	1.2	Hexachlorobenzene
5.598	-0.029	14803	6.180	-0.023	84819	0.2662	0.3183	17.8	Oxychlordane
----	----	----	6.434	-0.020	83498	0.0000	0.4333	---	2,4-DDE
----	----	----	6.554	-0.006	74488	0.0000	0.2738	---	trans-Nonachlor
6.173	-0.018	1890	6.922	-0.017	82877	0.0516	0.5655	166.5*	2,4-DDD
6.427	-0.002	4731	7.184	-0.043	3327	0.1141	0.0208	138.3*	2,4-DDT
----	----	----	----	----	----	0.0000	0.0000	---	cis-Nonachlor
7.415	-0.022	9996	----	----	----	0.2140	0.0000	---	Mirex
8.728	-0.018	4472579	10.074	-0.024	13086270	80.0000	80.0000	0.0	Hexabromobiphenyl
1.705	-0.033	7176	----	----	----	0.0000	0.0000	---	Hexachloroethane
6.607	0.026	5022	7.321	-0.015	16252	0.8196	0.9128	10.8	Kepone
3.654	-0.016	1917507	3.992	-0.016	10093314	27.7999	27.7912	0.0	Tetrachloro-m-xylene
8.584	-0.026	2044095	9.536	-0.030	8649850	34.1974	42.9853	22.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	69.5	69.5	69.5	42-112
Decachlorobiphenyl	85.5	107.5	85.5	59-123

~ Indicates recovery outside QC Limits

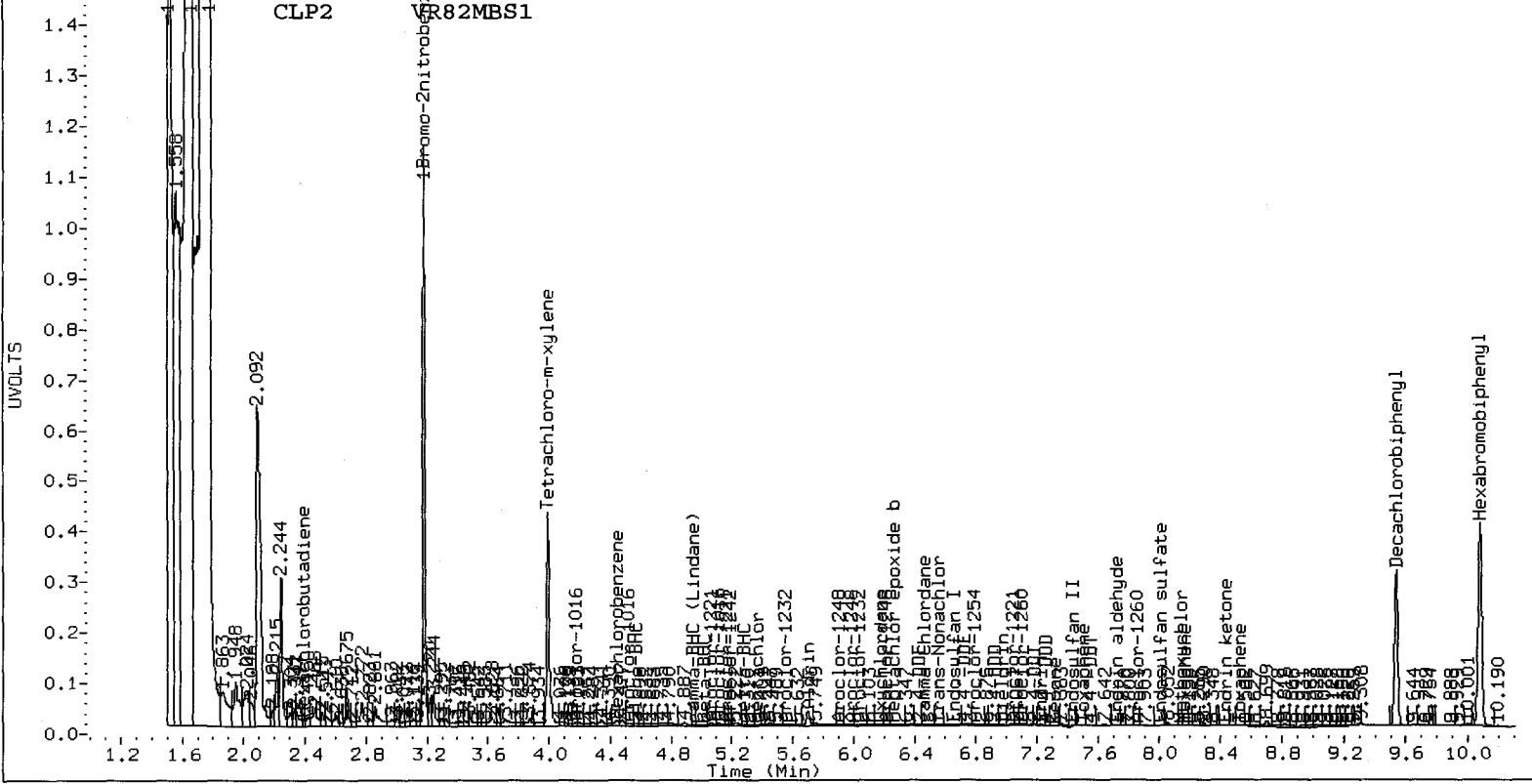
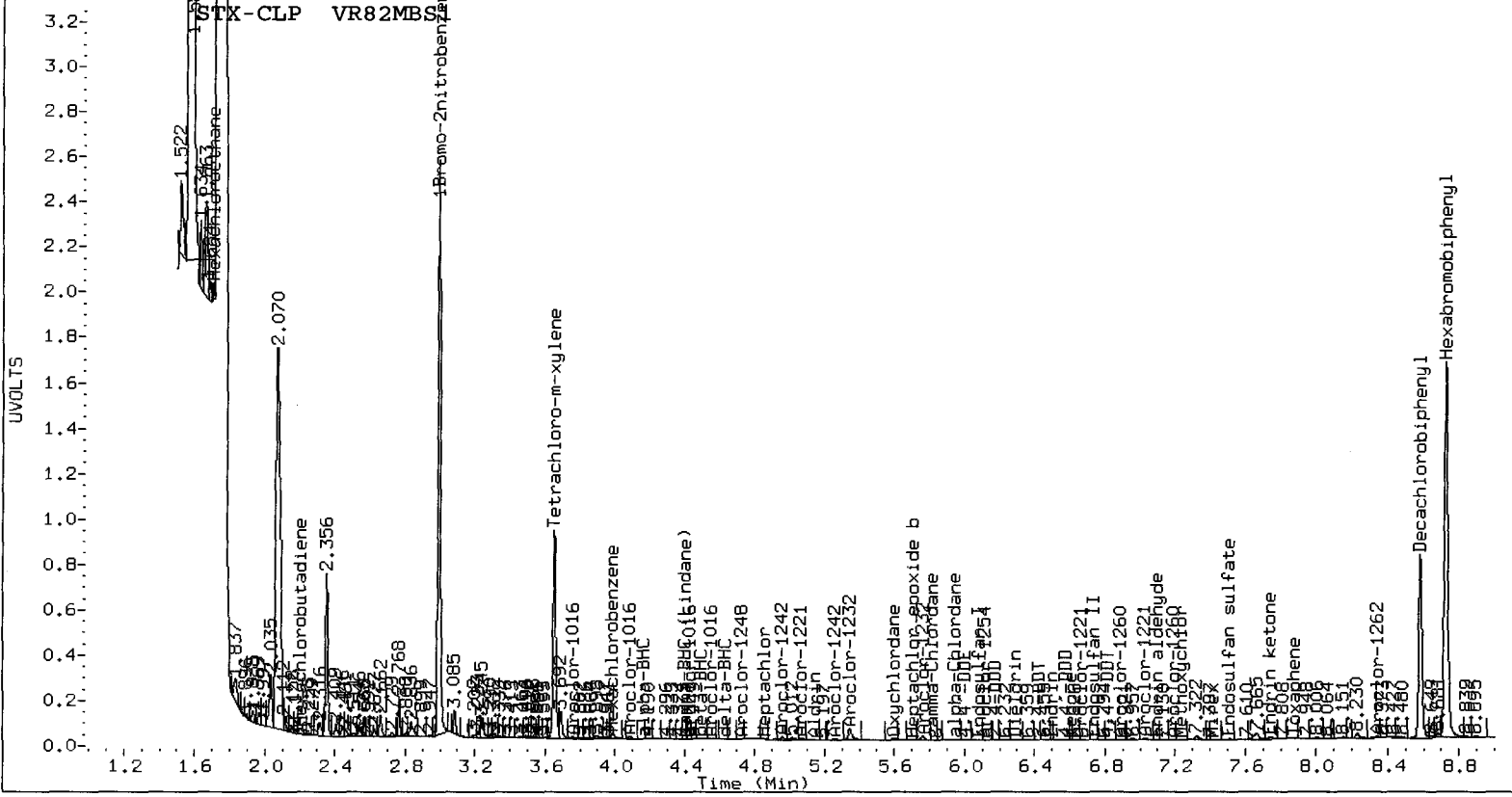
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4655011	14.7
Hexabromobiphenyl	3748709	4472579	19.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	20895374	-0.7
Hexabromobiphenyl	14864285	13086270	-12.0

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	STX-CLP Col				CLP2 Col				
		RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.502	0.011	2400	2.4	1	7.184	0.026	3327	0.5
Toxaphene	2	6.820	-0.024	16460	12.1	2	7.500	0.018	41254	4.4
Toxaphene	3	7.231	0.019	15717	14.2	3	7.716	0.002	15636	1.5
Toxaphene	4	7.511	0.045	12062	8.9	4	8.161	-0.018	37829	5.4
Toxaphene	5	7.742	-0.003	32811	28.4	5	8.522	-0.004	26523	8.5
Toxaphene	6	7.877	0.003	5379	6.8	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 12.122					Total CLP2Ave (5 peaks): 4.076					RPD = 99*
Corrected Ave (5 peaks): 8.875					Corrected Ave (4 peaks): 2.971					RPD = 100*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

YR 10/10/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A011.d ARI ID: VR82LCSS1
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A011.d Client ID: VR82LCSS1
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 17:10
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4743386	3.179	-0.012	20350750	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.126	-0.021	1465905	4.565	-0.020	7566415	16.5830	17.0432	2.7	alpha-BHC
4.484	-0.013	681732	4.992	-0.015	3339555	18.2442	18.5859	1.9	beta-BHC
4.649	-0.014	595665	5.296	-0.018	3083254	8.3596	8.7548	4.6	delta-BHC
4.403	-0.021	1485987	4.915	-0.021	7202656	18.2971	17.9465	1.9	gamma-BHC (Lindane)
4.837	-0.024	1376573	5.373	-0.024	6958560	18.6946	18.9373	1.3	Heptachlor
5.122	-0.026	1384852	5.712	-0.024	6509249	18.4161	18.0151	2.2	Aldrin
5.695	-0.028	1473323	6.268	-0.025	6846568	20.3253	21.0198	3.4	Heptachlor epoxide b
6.071	-0.028	1394142	6.655	-0.025	6102003	20.7829	20.8621	0.4	Endosulfan I
6.293	-0.029	2925464	6.913	-0.026	12958766	42.1902	41.8808	0.7	Dieldrin
6.004	-0.024	2747321	6.723	-0.022	12664842	42.9122	42.9276	0.0	4,4'-DDE
6.511	-0.029	2501685	7.203	-0.025	10058693	40.0944	44.9583	11.4	Endrin N
6.718	-0.028	2492924	7.390	-0.026	7827340	41.3750	35.0002	16.7	Endosulfan II
6.560	-0.024	2339337	7.262	-0.021	10174513	42.9377	48.1520	11.4	4,4'-DDD M
7.484	-0.030	1604457	7.936	-0.024	6542284	31.6371	34.7903	9.5	Endosulfan sulfate
6.817	-0.026	2168099	7.549	-0.022	8177411	39.5780	40.6675	2.7	4,4'-DDT
7.246	-0.025	5021002	8.134	-0.025	15616619	187.4718	182.0351	2.9	Methoxychlor
7.737	-0.030	2615873	8.423	-0.026	8993381	44.1079	47.8766	8.2	Endrin ketone
7.094	-0.029	1070478	7.690	-0.025	5137899	22.0307	29.1833	27.9	Endrin aldehyde
5.817	-0.026	1459021	6.453	-0.023	6834681	20.2423	20.1141	0.6	gamma-Chlordane
5.940	-0.027	1388462	6.591	-0.024	5199218	19.9601	16.4109	19.5	alpha-Chlordane
2.193	-0.017	1463999	2.361	-0.016	5435422	13.6653	12.3018	10.5	Hexachlorobutadiene
3.988	-0.014	1290863	4.443	-0.015	8175779	16.6991	21.4006	24.7	Hexachlorobenzene
5.599	-0.028	20433	6.170	-0.033	48163	0.3599	0.1856	63.9*	Oxychlorthane
----	----	----	----	----	----	0.0000	0.0000	---	2,4-DDE
----	----	----	6.540	-0.020	32121	0.0000	0.1191	---	trans-Nonachlor
6.166	-0.024	40701	----	----	----	1.0887	0.0000	---	2,4-DDD
6.402	-0.027	30191	7.203	-0.024	10058693	0.7134	63.4795	195.6*	2,4-DDT
6.560	-0.006	2339337	----	----	----	32.6573	0.0000	---	cis-Nonachlor
7.424	-0.013	36874	8.465	0.031	67747	0.7734	0.4346	56.1*	Mirex
8.728	-0.018	4566501	10.074	-0.024	12968178	80.0000	80.0000	0.0	Hexabromobiphenyl
1.688	-0.050	8729	----	----	----	0.0000	0.0000	---	Hexachloroethane
----	----	----	----	----	----	0.0000	0.0000	---	Kepone
3.654	-0.016	1898300	3.992	-0.016	9688343	27.0087	27.3900	1.4	Tetrachloro-m-xylene
8.584	-0.026	2106910	9.535	-0.031	8866685	34.5233	44.4642	25.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	67.5	68.5	67.5	42-112
Decachlorobiphenyl	86.3	111.2	86.3	59-123
4,4'-DDE	0.0	0.0	0.0~	0- 0
Endrin	1603776.6	0.0	0.0~	10-200
4,4'-DDD	0.0	0.0	0.0~	0- 0
4,4'-DDT	1583120.0	0.0	0.0~	0- 0
Endrin ketone	0.0	0.0	0.0~	0- 0
Endrin aldehyde	0.0	0.0	0.0~	0- 0

~ Indicates recovery outside QC Limits

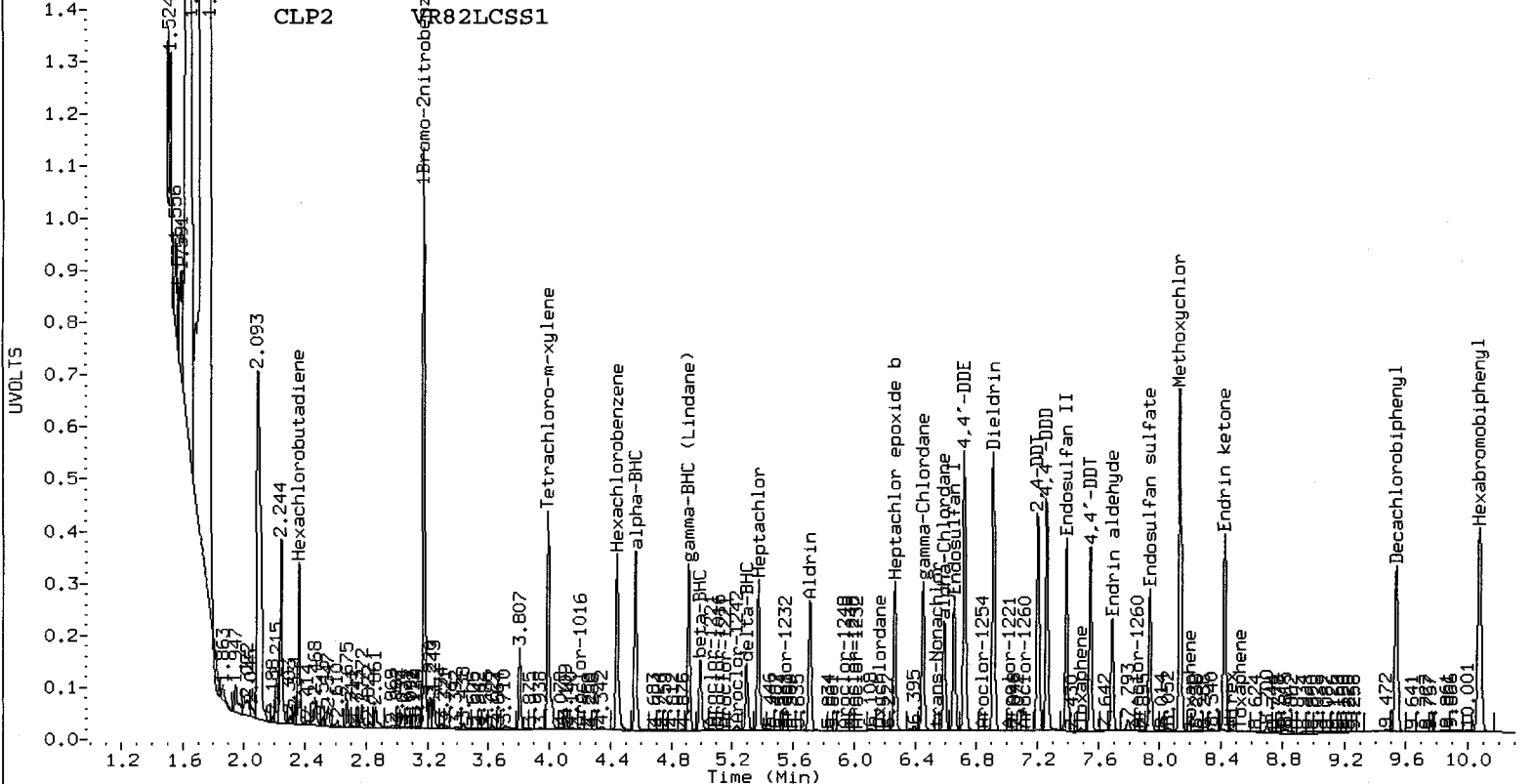
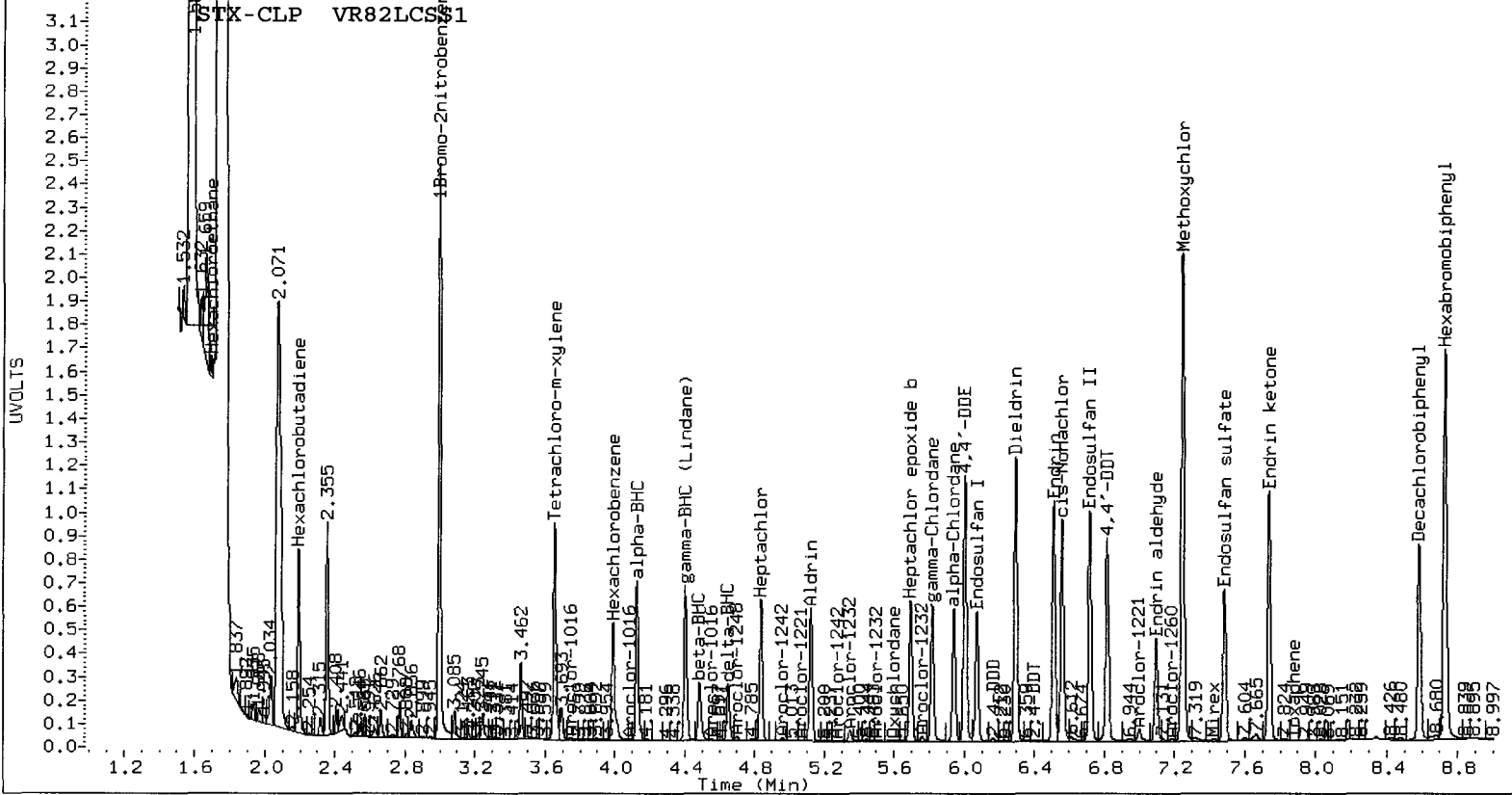
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4743386	16.8
Hexabromobiphenyl	3748709	4566501	21.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	20350750	-3.2
Hexabromobiphenyl	14864285	12968178	-12.8

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col				
			Shift	Height	Amount			Shift	Height	Amount		
Toxaphene	1	6.511	0.021	2501685	2400.1	1	7.115	-0.044	11758	1.8		
Toxaphene	2	6.817	-0.027	2168099	1557.8	2	7.486	0.003	179514	19.4		
Toxaphene	3	7.186	-0.026	36033	32.0	3	7.690	-0.023	5137899	512.6		
Toxaphene	4	7.484	0.018	1604457	1161.9	4	8.198	0.018	13613	2.0		
Toxaphene	5	7.737	-0.008	2615873	2214.5	5	8.522	-0.005	66215	21.4		
Toxaphene	6	7.877	0.002	5172	6.4	NS	---	---	---	---		
Total STX-CLPAve (6 peaks):					1228.756	Total CLP2Ave (5 peaks):					111.426	RPD = 167*
Corrected Ave (4 peaks):					689.502	Corrected Ave (4 peaks):					11.141	RPD = 194*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A012.d ARI ID: VR82A
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A012.d Client ID: SG-02-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 17:28
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

YZ 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	5025180	3.179	-0.012	19748692	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.148	0.001	289937	4.565	-0.021	821001	3.0960	1.9057	47.6*	alpha-BHC
4.478	-0.020	29603	4.997	-0.010	256261	0.7478	1.4697	65.1*	beta-BHC
4.654	-0.009	125356	5.303	-0.011	294900	1.6606	0.8629	63.2*	delta-BHC
4.402	-0.022	79025	4.905	-0.032	192553	0.9185	0.4944	60.0*	gamma-BHC (Lindane)
4.869	0.007	12716	5.378	-0.019	134828	0.1630	0.3781	79.5*	Heptachlor
5.139	-0.010	66795	5.689	-0.047	605119	0.8384	1.7258	69.2*	Aldrin
5.735	0.012	343548	6.250	-0.043	953258	<u>4.4737</u>	3.0158	38.9	Heptachlor epoxide b
6.080	-0.019	45855	6.642	-0.038	47258	0.6452	0.1665	118.0*	Endosulfan I
6.280	-0.043	207991	6.893	-0.046	386370	2.8314	1.2868	75.0*	Dieldrin
6.001	-0.027	324604	6.722	-0.024	1097775	4.7859	3.8344	22.1	4,4'-DDE
6.534	-0.006	655826	7.224	-0.004	1302434	<u>11.6603</u>	<u>8.2414</u>	34.4	Endrin
6.743	-0.003	41342	7.376	-0.040	868687	0.7612	5.4991	151.4*	Endosulfan II
6.626	0.042	102718	7.260	-0.023	585713	2.0915	3.9243	60.9*	4,4'-DDD
7.482	-0.032	51063	7.964	0.003	356980	1.1170	2.6875	82.6*	Endosulfan sulfate
6.865	0.023	54676	7.558	-0.013	1459807	1.1072	10.2778	161.1*	4,4'-DDT
7.282	0.012	137843	8.144	-0.014	193116	5.7095	3.1869	56.7*	Methoxychlor
7.744	-0.022	145149	8.428	-0.020	612009	2.7151	4.6125	51.8*	Endrin ketone
7.119	-0.004	85550	7.683	-0.032	186808	1.9532	1.5022	26.1	Endrin aldehyde
5.815	-0.028	107106	6.452	-0.024	524383	1.4027	1.5903	12.5	gamma-Chlordane
5.940	-0.027	171892	6.577	-0.038	1194858	2.3325	3.8864	50.0*	alpha-Chlordane
2.208	-0.002	22629	2.349	-0.028	89508	0.1994	0.2088	4.6	Hexachlorobutadiene
3.984	-0.019	49872	4.412	-0.046	849189	0.6090	2.2906	116.0*	Hexachlorobenzene
5.607	-0.021	8170	6.161	-0.042	917060	0.1596	3.6415	183.2*	Oxychlordane
5.687	-0.016	94983	6.421	-0.032	771320	2.5248	4.2352	50.6*	2,4-DDE
5.956	0.006	90953	6.527	-0.034	759767	1.4920	3.9890	91.1*	trans-Nonachlor
6.166	-0.024	312849	6.955	0.016	235755	9.2832	2.2979	120.6*	2,4-DDD
6.422	-0.007	13650	----	----	----	0.3578	0.0000	---	2,4-DDT
----	----	----	----	----	----	0.0000	0.0000	---	cis-Nonachlor
7.430	-0.007	40032	8.386	-0.048	236593	0.9314	2.1488	79.0*	Mirex
8.729	-0.017	4116354	10.075	-0.023	9160171	80.0000	80.0000	0.0	Hexabromobiphenyl
1.694	-0.043	2281	1.701	-0.027	3095909	0.0000	0.0000	---	Hexachloroethane
----	----	----	7.312	-0.024	207545	0.0000	16.6539	---	Kepone
3.654	-0.017	450453	3.991	-0.017	1932410	<u>6.0496</u>	<u>5.6297</u>	7.2	Tetrachloro-m-xylene
8.586	-0.025	468720	9.538	-0.028	1707965	<u>8.5202</u>	<u>12.1256</u>	34.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	15.1	14.1	14.1~	42-112
Decachlorobiphenyl	21.3	30.3	21.3~	59-123

~ Indicates recovery outside QC Limits

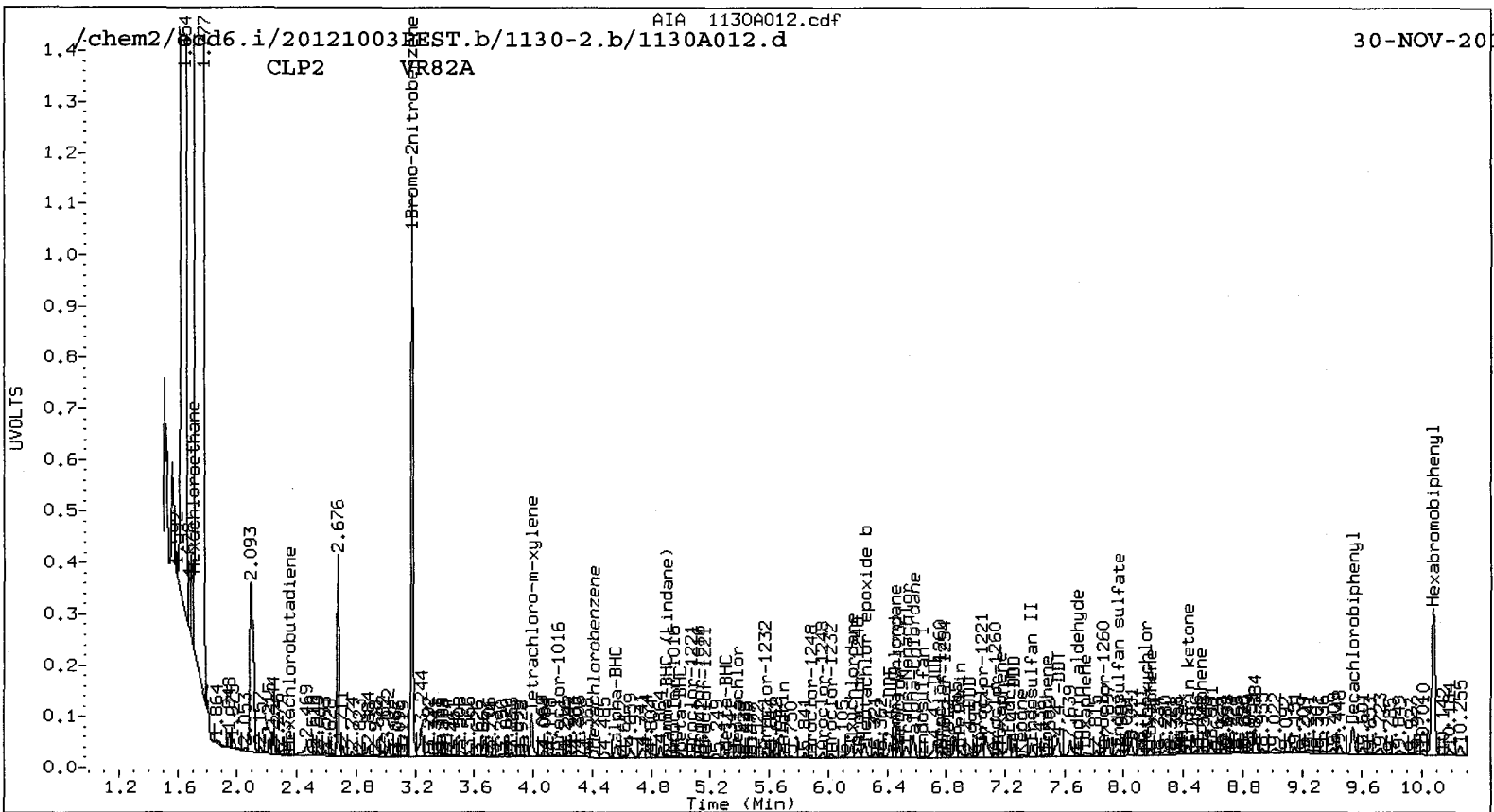
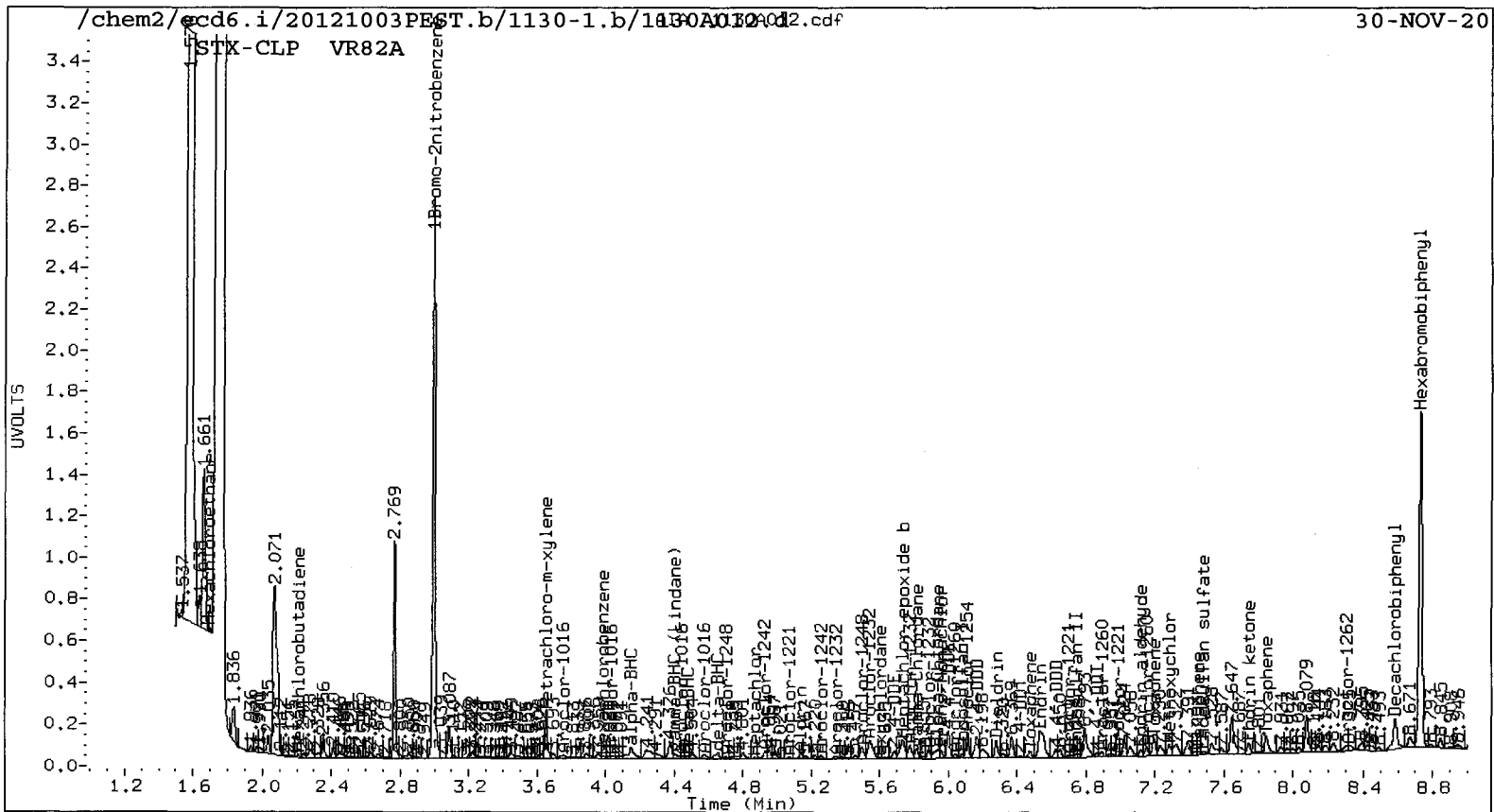
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	5025180	23.8
Hexabromobiphenyl	3748709	4116354	9.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	19748692	-6.1
Hexabromobiphenyl	14864285	9160171	-38.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.478	-0.013	77228	82.2	1	7.167	0.009	338184	74.9
Toxaphene	2	6.865	0.021	54676	43.6	2	7.478	-0.005	190104	29.0
Toxaphene	3	7.195	-0.017	233492	229.9	3	7.737	0.024	407186	57.5
Toxaphene	4	7.452	-0.014	39832	32.0	4	8.178	-0.001	465032	95.1
Toxaphene	5	7.744	-0.001	145149	136.3	5	8.516	-0.010	342400	156.7
Toxaphene	6	7.844	-0.030	260969	358.0	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 146.987					Total CLP2Ave (5 peaks): 82.633					RPD = 56*
Corrected Ave (5 peaks): 104.790					Corrected Ave (4 peaks): 64.115					RPD = 48*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A013.d ARI ID: VR82B
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A013.d Client ID: SG-03-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 17:46
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

YZ W/C/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4364217	3.179	-0.012	14815254	80.0000	80.0000 ^{IS}	0.0	1Bromo-2nitrobenzen
4.148	0.001	318982	4.568	-0.017	738771	3.9220	2.2858	52.7*	alpha-BHC
4.476	-0.022	37626	4.998	-0.009	358213	1.0944	2.7385	85.8*	beta-BHC
4.655	-0.008	157541	5.304	-0.010	445390	2.4030	1.7372	32.2	delta-BHC
4.407	-0.017	91913	4.906	-0.030	192492	1.2301	0.6588	60.5*	gamma-BHC (Lindane)
4.866	0.005	9970	5.375	-0.022	147062	0.1472	0.5498	115.5*	Heptachlor
5.138	-0.011	40329	5.688	-0.047	638187	0.5829	2.4262	122.5*	Aldrin
5.717	-0.006	88325	6.257	-0.037	549582	1.3244	2.3177	54.5*	Heptachlor epoxide b
6.077	-0.023	47033	6.681	0.001	184871	0.7621	0.8682	13.0	Endosulfan I
6.280	-0.042	92578	6.893	-0.046	162737	1.4511	0.7225	67.0*	Dieldrin
6.002	-0.026	202702	6.722	-0.023	556923	3.4412	2.5930	28.1	4,4'-DDE
6.535	-0.005	112942	7.225	-0.003	325467	2.3475	2.4315	3.5	Endrin
6.725	-0.021	39825	7.378	-0.038	263218	0.8572	1.9673	78.6*	Endosulfan II
6.626	0.042	49055	7.260	-0.023	400968	1.1677	3.1718	92.4*	4,4'-DDD
7.488	-0.025	44618	7.958	-0.002	149177	1.1410	1.3260	15.0	Endosulfan sulfate
6.863	0.020	32469	7.557	-0.014	590852	0.7687	4.9115	145.9*	4,4'-DDT
7.241	-0.030	113481	8.109	-0.049	191479	5.4951	3.7307	38.2	Methoxychlor
7.744	-0.022	3427	8.431	-0.017	362625	0.0749	3.2267	190.9*	Endrin ketone
7.156	0.033	252371	7.705	-0.010	48255	6.7359	0.4581	174.5*	Endrin aldehyde
5.815	-0.028	88303	6.451	-0.025	1013439	1.3315	4.0969	101.9*	gamma-Chlordane
----			6.577	-0.038	633943	0.0000	2.7486	---	alpha-Chlordane
2.207	-0.003	27431	2.350	-0.027	80322	0.2783	0.2497	10.8	Hexachlorobutadiene
3.984	-0.018	58682	4.458	0.000	118706	0.8251	0.4268	63.6*	Hexachlorobenzene
5.607	-0.020	17056	6.198	-0.005	577671	0.3896	3.0577	154.8*	Oxychlordane
5.687	-0.016	47347	----			1.4713	0.0000	---	2,4-DDE
5.939	-0.012	153557	6.530	-0.031	574485	2.9448	3.5612	18.9	trans-Nonachlor
6.167	-0.023	154426	6.948	0.009	265421	5.3570	3.0545	54.7*	2,4-DDD
6.417	-0.012	6133	7.198	-0.029	178826	0.1879	1.8864	163.8*	2,4-DDT
6.555	-0.011	137338	----			2.4865	0.0000	---	cis-Nonachlor
7.429	-0.008	51689	8.384	-0.050	294899	1.4059	3.1622	76.9*	Mirex
8.728	-0.018	3521090	10.074	-0.024	7758504	80.0000	80.0000 ^{IP}	0.0	Hexabromobiphenyl
1.728	-0.010	1422228	1.766	0.039	153978108	0.0000	0.0000	---	Hexachloroethane
----			7.311	-0.026	208943	0.0000	19.7951	---	Kepone
3.654	-0.016	451567	3.991	-0.017	1506128	<u>6.9830</u>	<u>5.8489</u>	17.7	Tetrachloro-m-xylene
8.585	-0.025	396262	9.539	-0.028	1451019	<u>8.4208</u>	<u>12.1625</u>	36.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	17.5	14.6	14.6~	42-112
Decachlorobiphenyl	21.1	30.4	21.1~	59-123

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4364217	7.5
Hexabromobiphenyl	3748709	3521090	-6.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	14815254	-29.6
Hexabromobiphenyl	14864285	7758504	-47.8

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.474	-0.016	20524	25.5	1	7.131	-0.027	124441	32.5
Toxaphene	2	6.863	0.019	32469	30.3	2	7.474	-0.009	180560	32.5
Toxaphene	3	7.195	-0.017	251184	289.1	3	7.705	-0.008	48255	8.0
Toxaphene	4	7.488	0.023	44618	41.9	4	8.181	0.001	342903	82.8
Toxaphene	5	7.744	-0.001	3427	3.8	5	8.542	0.016	183201	99.0
Toxaphene	6	7.845	-0.029	222684	357.1	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 124.606					Total CLP2Ave (5 peaks): 50.975					RPD = 84*
Corrected Ave (4 peaks): 25.364					Corrected Ave (4 peaks): 38.970					RPD = 42*

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A014.d ARI ID: VR82C
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A014.d Client ID: SG-04-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 18:03
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

YZ 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4991431	3.179	-0.012	18301355	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.116	-0.032	6067	4.563	-0.023	181721	0.0652	0.4552	149.9*	alpha-BHC
4.502	0.005	63174	5.007	0.000	26503	1.6066	0.1640	162.9*	beta-BHC
4.636	-0.027	6425	5.305	-0.009	97310	0.0857	0.3073	112.8*	delta-BHC
4.400	-0.024	14646	4.906	-0.031	59053	0.1714	0.1636	4.6	gamma-BHC (Lindane)
4.856	-0.005	2075	5.378	-0.019	24331	0.0268	0.0736	93.3*	Heptachlor
5.142	-0.006	2517	5.694	-0.041	273003	0.0318	0.8402	185.4*	Aldrin
5.716	-0.007	15606	6.263	-0.031	158722	0.2046	0.5419	90.4*	Heptachlor epoxide b
6.080	-0.020	5001	6.651	-0.030	33038	0.0708	0.1256	55.7*	Endosulfan I
6.304	-0.019	10009	6.914	-0.025	109327	0.1372	0.3929	96.5*	Dieldrin
6.002	-0.026	28563	6.722	-0.024	195440	0.4240	0.7366	53.9*	4,4'-DDE
----	----	----	----	----	----	0.0000	0.0000	---	Endrin
6.744	-0.002	9278	7.384	-0.033	114564	0.1764	0.6829	117.9*	Endosulfan II
6.623	0.039	6132	7.259	-0.024	324706	0.1289	2.0486	176.3*	4,4'-DDD
7.503	-0.010	36622	7.957	-0.003	203000	0.8270	1.4391	54.0*	Endosulfan sulfate
6.822	-0.020	21510	7.553	-0.017	394869	0.4497	2.6179	141.4*	4,4'-DDT
7.283	0.012	36642	8.137	-0.021	32669	1.5668	0.5077	102.1*	Methoxychlor
7.741	-0.025	10172	----	----	----	0.1964	0.0000	---	Endrin ketone
7.120	-0.004	12280	7.706	-0.009	99543	0.2894	0.7538	89.0*	Endrin aldehyde
5.814	-0.028	19719	6.449	-0.027	104880	0.2600	0.3432	27.6	gamma-Chlordane
----	----	----	6.575	-0.040	285660	0.0000	1.0026	---	alpha-Chlordane
2.207	-0.003	20097	2.348	-0.029	53690	0.1783	0.1351	27.5	Hexachlorobutadiene
3.985	-0.018	9547	4.418	-0.040	123335	0.1174	0.3590	101.4*	Hexachlorobenzene
5.620	-0.007	3908	6.164	-0.039	349594	0.0788	1.4980	180.0*	Oxychlordane
5.685	-0.018	3464	6.422	-0.031	66845	0.0951	0.3961	122.6*	2,4-DDE
5.938	-0.013	22320	6.531	-0.030	220654	0.3780	1.0909	97.1*	trans-Nonachlor
6.168	-0.022	38331	6.965	0.026	105454	1.1742	0.9679	19.3	2,4-DDD
6.421	-0.008	4317	7.199	-0.028	102557	0.1168	0.8628	152.3*	2,4-DDT
6.556	-0.011	33317	----	----	----	0.5327	0.0000	---	cis-Nonachlor
7.434	-0.003	31366	8.417	-0.017	117617	0.7534	1.0059	28.7	Mirex
8.726	-0.020	3987403	10.074	-0.024	9727599	80.0000	80.0000	0.0	Hexabromobiphenyl
1.729	-0.009	521257	1.728	0.000	108261633	0.0000	0.0000	---	Hexachloroethane
----	----	----	7.308	-0.028	167370	0.0000	12.6468	---	Kepone
3.654	-0.017	440041	3.991	-0.016	1754927	5.9497	5.5169	7.5	Tetrachloro-m-xylene
8.584	-0.027	428310	9.536	-0.030	1320538	8.0374	8.8282	9.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	14.9	13.8	13.8~	42-112
Decachlorobiphenyl	20.1	22.1	20.1~	59-123

~ Indicates recovery outside QC Limits

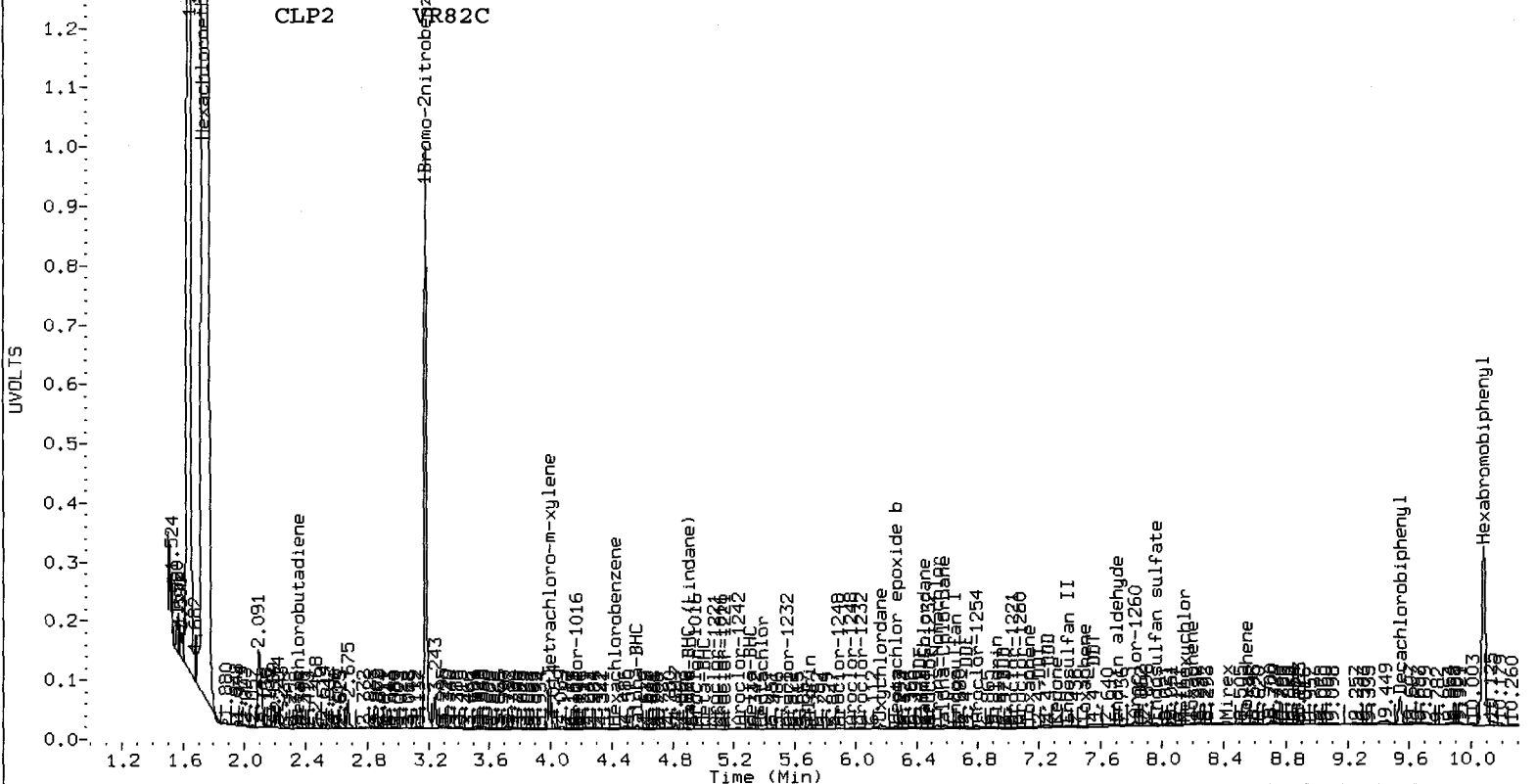
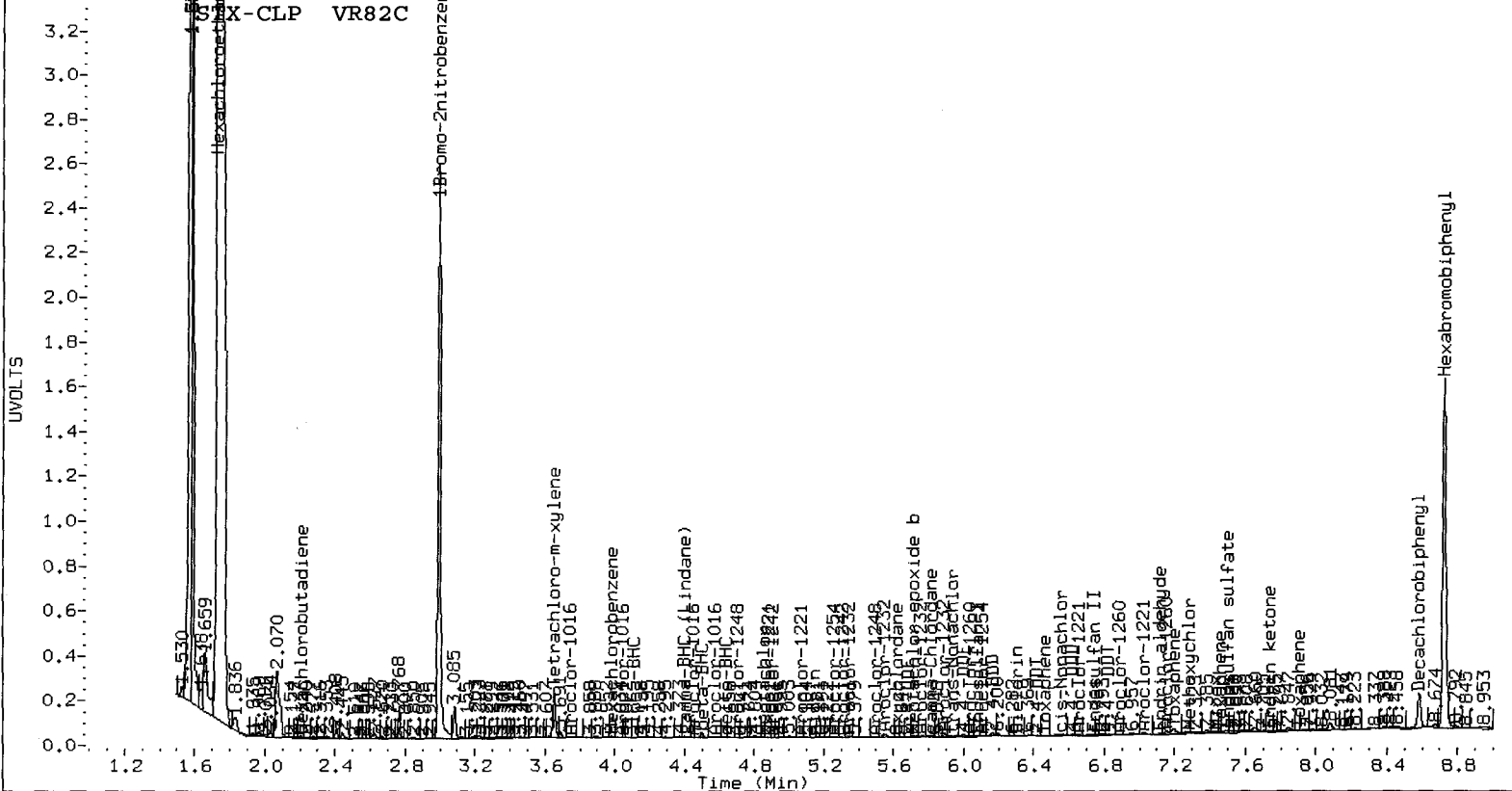
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4991431	22.9
Hexabromobiphenyl	3748709	3987403	6.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	18301355	-13.0
Hexabromobiphenyl	14864285	9727599	-34.6

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.465	-0.026	4615	5.1	1	7.133	-0.025	62558	13.0
Toxaphene	2	6.822	-0.021	21510	17.7	2	7.494	0.011	169709	24.4
Toxaphene	3	7.197	-0.015	79152	80.4	3	7.706	-0.007	99543	13.2
Toxaphene	4	7.456	-0.010	11462	9.5	4	8.186	0.007	118089	22.7
Toxaphene	5	7.741	-0.003	10172	9.9	5	8.541	0.014	92612	39.9
Toxaphene	6	7.901	0.027	5049	7.1	NS	---	---	---	----
Total STX-CLPAve (6 peaks): 21.621					Total CLP2Ave (5 peaks): 22.664					RPD = 5
Corrected Ave (5 peaks): 9.857					Corrected Ave (4 peaks): 18.351					RPD = 60*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Y2 12/01/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A015.d ARI ID: VR82D
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A015.d Client ID: SG-05-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 18:21
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4818497	3.178	-0.012	19244194	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.114	-0.034	60036	4.567	-0.018	846126	0.6686	2.0155	100.4*	alpha-BHC
4.474	-0.023	28322	4.995	-0.012	267682	0.7461	1.5754	71.4*	beta-BHC
4.635	-0.028	28078	5.305	-0.009	3656431	0.3879	10.9794	186.4*	delta-BHC
4.408	-0.016	45298	4.905	-0.031	226018	0.5491	0.5955	8.1	gamma-BHC (Lindane)
4.864	0.002	18374	5.380	-0.017	81900	0.2456	0.2357	4.1	Heptachlor
5.137	-0.012	27030	5.688	-0.048	581948	0.3538	1.7032	131.2*	Aldrin
5.713	-0.010	98490	6.256	-0.038	226168	1.3375	0.7343	58.2*	Heptachlor epoxide b
6.076	-0.023	33617	6.664	-0.016	33477	0.4933	0.1210	121.2*	Endosulfan I
6.281	-0.042	46783	6.914	-0.025	73502	0.6642	0.2512	90.2*	Dieldrin
6.001	-0.026	211935	6.721	-0.024	551466	3.2587	1.9767	49.0*	4,4'-DDE
----			7.227	-0.001	220718	0.0000	1.4523	---	Endrin
6.741	-0.005	21917	7.380	-0.037	230038	0.4133	1.5143	114.2*	Endosulfan II
6.625	0.041	31329	7.260	-0.023	653176	0.6534	4.5508	149.8*	4,4'-DDD
7.490	-0.024	42692	7.956	-0.004	72099	0.9565	0.5644	51.6*	Endosulfan sulfate
6.818	-0.024	35532	7.556	-0.014	393318	0.7370	2.8796	118.5*	4,4'-DDT
7.241	-0.030	150696	8.109	-0.049	275420	6.3932	4.7263	30.0	Methoxychlor
7.731	-0.035	4969	8.433	-0.015	203653	0.0952	1.5960	177.5*	Endrin ketone
7.093	-0.031	8605	7.704	-0.011	55998	0.2012	0.4683	79.8*	Endrin aldehyde
5.814	-0.028	69094	6.453	-0.023	463502	0.9437	1.4425	41.8*	gamma-Chlordane
5.937	-0.030	78598	6.577	-0.038	651383	1.1123	2.1743	64.6*	alpha-Chlordane
2.207	-0.003	23507	2.349	-0.029	79001	0.2160	0.1891	13.3	Hexachlorobutadiene
3.982	-0.020	58619	4.458	0.001	123328	0.7465	0.3414	74.5*	Hexachlorobenzene
5.590	-0.037	57836	6.161	-0.042	665888	1.1574	2.7135	80.4*	Oxychlorane
5.684	-0.020	28009	6.421	-0.032	130955	0.7626	0.7379	3.3	2,4-DDE
5.911	-0.039	136561	6.537	-0.024	609485	2.2945	3.3276	36.8	trans-Nonachlor
6.165	-0.025	141787	6.949	0.010	158658	4.3093	1.6081	91.3*	2,4-DDD
6.415	-0.014	12508	7.196	-0.031	251406	0.3358	2.3357	149.7*	2,4-DDT
6.557	-0.009	217386	----			3.4482	0.0000	---	cis-Nonachlor
7.430	-0.006	54524	8.465	0.031	41563	1.2993	0.3925	107.2*	Mirex
8.728	-0.017	4018942	10.074	-0.023	8808986	80.0000	80.0000	0.0	Hexabromobiphenyl
1.728	-0.009	990542	1.687	-0.041	1173962	0.0000	0.0000	---	Hexachloroethane
----			7.310	-0.026	329996	0.0000	27.5353	---	Kepone
3.653	-0.017	497475	3.990	-0.017	1647577	6.9677	4.9257	34.3	Tetrachloro-m-xylene
8.585	-0.025	411070	9.538	-0.028	1578202	7.6534	11.6510	41.4*	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	17.4	12.3	12.3~	42-112
Decachlorobiphenyl	19.1	29.1	19.1~	59-123

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4818497	18.7
Hexabromobiphenyl	3748709	4018942	7.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	19244194	-8.5
Hexabromobiphenyl	14864285	8808986	-40.7

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	STX-CLP Col				CLP2 Col				
		RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.473	-0.018	12977	14.1	1	7.131	-0.027	150106	34.5
Toxaphene	2	6.862	0.018	22444	18.3	2	7.474	-0.009	183330	29.1
Toxaphene	3	7.194	-0.018	200194	201.9	3	7.704	-0.009	55998	8.2
Toxaphene	4	7.490	0.024	42692	35.1	4	8.182	0.003	417738	88.8
Toxaphene	5	7.731	-0.014	4969	4.8	5	8.543	0.016	290364	138.2
Toxaphene	6	7.845	-0.029	196245	275.7	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 91.658					Total CLP2Ave (5 peaks): 59.776					RPD = 42*
Corrected Ave (4 peaks): 18.094					Corrected Ave (4 peaks): 40.172					RPD = 76*

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A016.d ARI ID: VR82E
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A016.d Client ID: SG-06-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 18:39
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

42 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.996	-0.014	4628226	3.179	-0.012	16671388	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.116	-0.031	31166	4.568	-0.018	683386	0.2613	1.8790	135.5*	alpha-BHC
4.476	-0.022	22075	4.995	-0.012	219978	0.6055	1.4945	84.7*	beta-BHC
4.635	-0.028	25529	5.305	-0.010	488720	0.3672	1.6940	128.7*	delta-BHC
4.409	-0.016	43267	4.905	-0.031	241277	0.5460	0.7339	29.4	gamma-BHC (Lindane)
4.867	0.006	11010	5.376	-0.021	77577	0.1532	0.2577	50.8*	Heptachlor
5.138	-0.011	13049	5.690	-0.046	491001	0.1778	1.6588	161.3*	Aldrin
5.715	-0.009	73308	6.262	-0.032	386578	1.0365	1.4488	33.2	Heptachlor epoxide b
6.077	-0.022	50609	6.681	0.000	183644	0.7732	0.7664	0.9	Endosulfan I
6.303	-0.019	35545	6.916	-0.023	97213	0.5254	0.3835	31.2	Dieldrin
6.002	-0.026	227238	6.722	-0.024	717328	3.6377	2.9680	20.3	4,4'-DDE
----	----	----	----	----	----	0.0000	0.0000	----	Endrin
6.739	-0.007	27657	7.380	-0.036	190689	0.5653	1.3565	82.3*	Endosulfan II
6.624	0.040	29336	7.260	-0.023	1030239	0.6632	7.7567	168.5*	4,4'-DDD
7.492	-0.022	49288	7.956	-0.004	112748	1.1970	0.9538	22.6	Endosulfan sulfate
6.817	-0.025	34412	7.555	-0.015	415372	0.7737	3.2863	123.8*	4,4'-DDT
7.241	-0.030	155934	8.110	-0.049	236112	7.1707	4.3785	48.4*	Methoxychlor
7.741	-0.026	1149	8.430	-0.019	377313	0.0239	3.1955	197.0*	Endrin ketone
7.090	-0.034	12728	7.705	-0.010	65233	0.3226	0.5895	58.5*	Endrin aldehyde
5.815	-0.028	109741	6.455	-0.021	837910	1.5604	3.0101	63.4*	gamma-Chlordane
----	----	----	6.578	-0.037	694824	0.0000	2.6772	----	alpha-Chlordane
2.207	-0.003	28994	2.350	-0.028	72822	0.2774	0.2012	31.8	Hexachlorobutadiene
3.984	-0.019	41567	4.417	-0.040	323781	0.5511	1.0346	61.0*	Hexachlorobenzene
5.604	-0.023	10232	6.196	-0.006	381992	0.2219	1.7968	156.0*	Oxychlordane
5.684	-0.019	30970	6.423	-0.031	134699	0.9140	0.8761	4.2	2,4-DDE
5.938	-0.013	165757	6.533	-0.027	513220	3.0188	3.0280	0.3	trans-Nonachlor
6.167	-0.023	155050	6.950	0.011	208022	5.1079	2.2785	76.6*	2,4-DDD
6.415	-0.014	12370	7.199	-0.028	133074	0.3600	1.3361	115.1*	2,4-DDT
6.558	-0.008	250093	----	----	----	4.3000	0.0000	----	cis-Nonachlor
7.429	-0.008	64364	----	----	----	1.6625	0.0000	----	Mirex
8.728	-0.018	3707737	10.075	-0.023	8151614	80.0000	80.0000	0.0	Hexabromobiphenyl
1.730	-0.007	1471479	1.770	0.042	155727941	0.0000	0.0000	----	Hexachloroethane
----	----	----	7.310	-0.026	290893	0.0000	26.2300	----	Kepone
3.654	-0.016	363901	3.991	-0.017	1519686	5.3064	5.2445	1.2	Tetrachloro-m-xylene
8.585	-0.026	437812	9.538	-0.028	1405224	8.8355	11.2106	23.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	13.3	13.1	13.1~	42-112
Decachlorobiphenyl	22.1	28.0	22.1~	59-123

~ Indicates recovery outside QC Limits

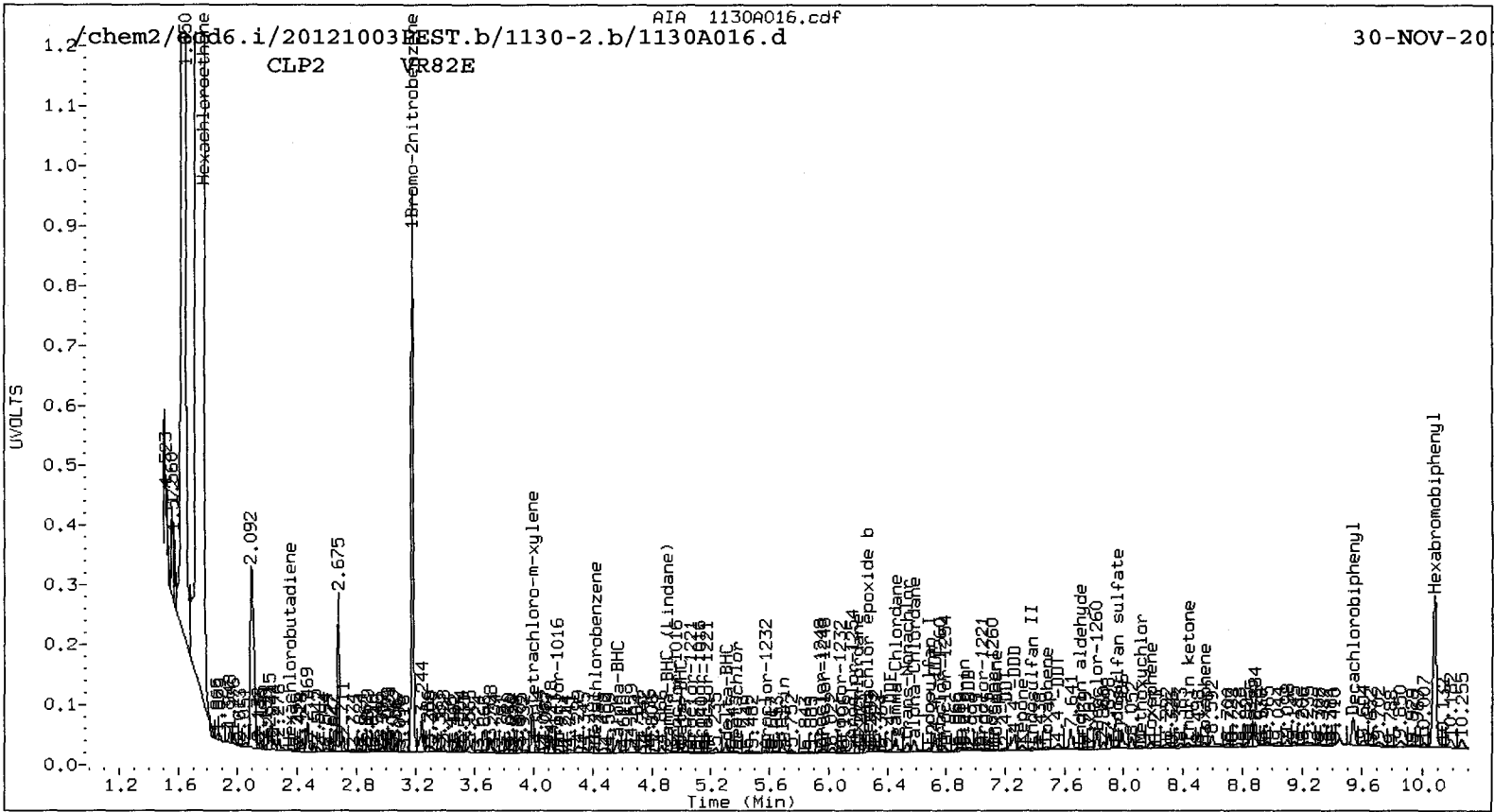
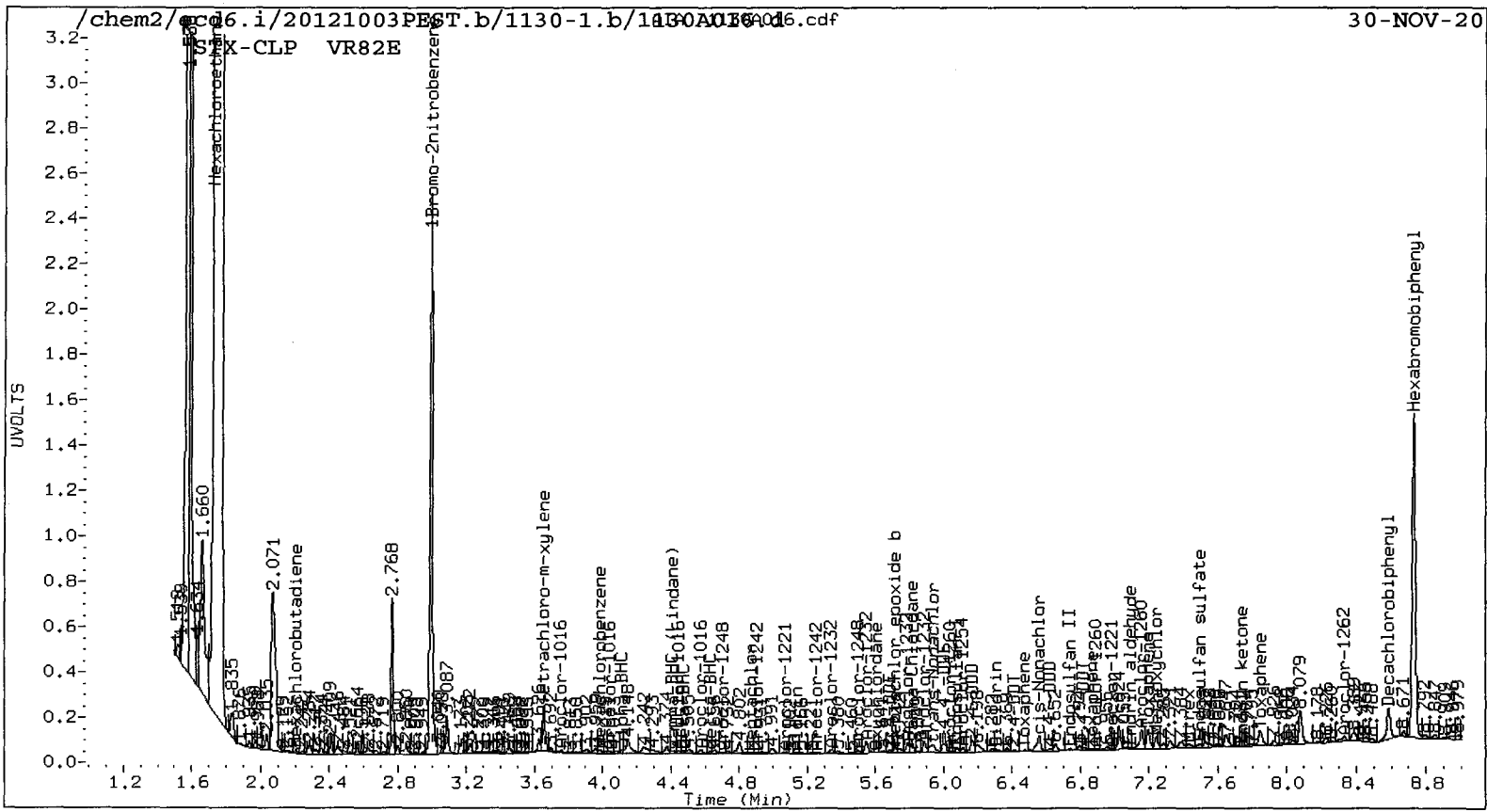
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4628226	14.0
Hexabromobiphenyl	3748709	3707737	-1.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	16671388	-20.7
Hexabromobiphenyl	14864285	8151614	-45.2

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.474	-0.016	12123	14.3	1	7.133	-0.026	48636	12.1
Toxaphene	2	6.864	0.020	19609	17.4	2	7.473	-0.010	193921	33.3
Toxaphene	3	7.195	-0.017	233602	255.3	3	7.705	-0.008	65233	10.4
Toxaphene	4	7.492	0.026	49288	44.0	4	8.182	0.003	368376	84.6
Toxaphene	5	7.741	-0.004	1149	1.2	5	8.542	0.015	272010	139.9
Toxaphene	6	7.845	-0.029	219276	333.9	NS				
Total STX-CLPAve (6 peaks): 111.013					Total CLP2Ave (5 peaks): 56.049					RPD = 66*
Corrected Ave (4 peaks): 19.208					Corrected Ave (4 peaks): 35.087					RPD = 58*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Y2 10/1/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A017.d ARI ID: VR82F
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A017.d Client ID: SG-07-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 18:57
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.997	-0.013	4818273	3.179	-0.012	17126083	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.115	-0.033	37254	4.568	-0.017	472529	0.4149	1.2648	101.2*	alpha-BHC
4.472	-0.025	19873	4.996	-0.011	257553	0.5236	1.7033	106.0*	beta-BHC
4.658	-0.004	81259	5.304	-0.010	831822	1.1227	2.8067	85.7*	delta-BHC
4.400	-0.024	36820	4.906	-0.030	237114	0.4463	0.7020	44.5*	gamma-BHC (Lindane)
4.868	0.007	9098	5.376	-0.021	161148	0.1216	0.5211	124.3*	Heptachlor
5.133	-0.015	11371	5.688	-0.048	498257	0.1489	1.6386	166.7*	Aldrin
5.714	-0.009	235488	6.289	-0.005	318967	3.1982	1.1637	93.3*	Heptachlor epoxide b
6.076	-0.023	45938	6.661	-0.019	71572	0.6742	0.2908	79.5*	Endosulfan I
6.285	-0.038	36460	6.916	-0.023	124663	0.5176	0.4788	7.8	Dieldrin
6.002	-0.026	153417	6.722	-0.023	608644	2.3591	2.4514	3.8	4,4'-DDE
6.511	-0.029	9141	----	----	----	0.1694	0.0000	---	Endrin
6.742	-0.004	34960	7.383	-0.033	174631	0.6709	1.1399	51.8*	Endosulfan II
6.625	0.041	16512	7.258	-0.025	932851	0.3504	6.4444	179.4*	4,4'-DDD
7.492	-0.021	56921	7.986	0.026	25028918	1.2978	194.2856	197.3*	Endosulfan sulfate
6.797	-0.045	67430	7.553	-0.018	506170	1.4233	3.6745	88.3*	4,4'-DDT
7.240	-0.031	3818249	8.183	0.024	466421	164.8504	7.9363	181.6*	Methoxychlor
7.733	-0.033	4383	8.430	-0.019	414376	0.0855	3.2201	189.7*	Endrin ketone
7.156	0.033	1987356	7.702	-0.013	367079	47.2941	3.0435	175.8*	Endrin aldehyde
5.815	-0.028	70310	6.454	-0.022	691326	0.9603	2.4176	86.3*	gamma-Chlordane
5.920	-0.047	81616	6.583	-0.032	541749	1.1551	2.0320	55.0*	alpha-Chlordane
2.207	-0.003	18926	2.349	-0.028	72692	0.1738	0.1955	11.7	Hexachlorobutadiene
3.984	-0.018	50059	4.481	0.023	237757	0.6375	0.7395	14.8	Hexachlorobenzene
5.604	-0.023	13934	6.163	-0.040	631953	0.2838	2.8937	164.3*	Oxychlorane
5.681	-0.022	23280	----	----	----	0.6450	0.0000	---	2,4-DDE
5.937	-0.014	89864	6.535	-0.026	537942	1.5366	2.9122	61.8*	trans-Nonachlor
6.166	-0.024	78841	6.950	0.011	193556	2.4385	1.9453	22.5	2,4-DDD
6.414	-0.015	90202	7.178	-0.049	314395	2.4646	2.8963	16.1	2,4-DDT
6.558	-0.008	158713	----	----	----	2.5620	0.0000	---	cis-Nonachlor
7.408	-0.029	179688	----	----	----	4.3576	0.0000	---	Mirex
8.728	-0.018	3949148	10.075	-0.023	8884012	80.0000	80.0000	0.0	Hexabromobiphenyl
1.730	-0.007	1410453	1.770	0.042	152460825	0.0000	0.0000	---	Hexachloroethane
----	----	----	7.313	-0.024	390843	0.0000	32.3370	---	Kepone
3.654	-0.016	425777	3.991	-0.016	1463334	5.9637	4.9160	19.3	Tetrachloro-m-xylene
8.585	-0.025	313670	9.539	-0.027	1446935	5.9432	10.5918	56.2*	Decachlorobiphenyl

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	14.9	12.3	12.3~	42-112
Decachlorobiphenyl	14.9	26.5	14.9~	59-123

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4818273	18.7
Hexabromobiphenyl	3748709	3949148	5.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	17126083	-18.6
Hexabromobiphenyl	14864285	8884012	-40.2

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.511	0.021	9141	10.1	1	7.178	0.019	314395	71.8
Toxaphene	2	6.878	0.034	13258	11.0	2	7.474	-0.009	288246	45.4
Toxaphene	3	7.194	-0.018	236292	242.5	3	7.702	-0.011	367079	53.5
Toxaphene	4	7.492	0.027	56921	47.7	4	8.183	0.003	466421	98.3
Toxaphene	5	7.733	-0.012	4383	4.3	5	8.541	0.014	370388	174.8
Toxaphene	6	7.846	-0.028	149970	214.4	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 88.334					Total CLP2Ave (5 peaks): 88.737					RPD = 0
Corrected Ave (4 peaks): 18.277					Corrected Ave (4 peaks): 67.225					RPD = 114*

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A019.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A019.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 19:32
 Compound Sublist: INDA Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y-Z 12/1/12

STX-CLP Col	CLP2 Col	STX-CLP	CLP2	RPD	Compound/Flag
RT Shift Response	RT Shift Response	on col on col	on col on col		
2.999 -0.011 5410463	3.181 -0.010 26766948	80.0000 80.0000	80.0000 80.0000	0.0	1Bromo-2nitrobenzen
4.130 -0.017 2119417	4.567 -0.018 11202942	21.0197 19.1856	21.0197 19.1856	9.1	alpha-BHC
4.495 -0.003 827471	4.997 -0.010 4128193	19.4142 17.4677	19.4142 17.4677	10.6	beta-BHC
4.659 -0.003 1708765	5.301 -0.013 7764457	21.0242 16.7622	21.0242 16.7622	22.6	delta-BHC
4.407 -0.017 1830527	4.917 -0.019 9405068	19.7605 17.8169	19.7605 17.8169	10.3	gamma-BHC (Lindane)
4.840 -0.022 1636245	5.374 -0.024 8227952	19.4814 17.0244	19.4814 17.0244	13.5	Heptachlor
5.125 -0.024 1699491	5.712 -0.023 8070923	19.8138 16.9829	19.8138 16.9829	15.4	Aldrin
5.697 -0.026 1549744	6.270 -0.024 6656318	18.7436 15.5371	18.7436 15.5371	18.7	Heptachlor epoxide b
6.074 -0.026 1503913	6.657 -0.024 5867135	19.6552 15.2508	19.6552 15.2508	25.2	Endosulfan I
6.296 -0.027 3068841	6.914 -0.025 11904269	38.8012 29.2507	38.8012 29.2507	28.1	Dieldrin
6.010 -0.018 2845563	6.725 -0.020 11772470	38.9667 30.3379	38.9667 30.3379	24.9	4,4'-DDE
6.513 -0.027 2520653	7.204 -0.024 8535692	40.3957 40.8363	40.3957 40.8363	1.1	Endrin
6.721 -0.025 2384825	7.394 -0.022 8698383	39.5782 41.6327	39.5782 41.6327	5.1	Endosulfan II
6.566 -0.018 2719934	7.264 -0.019 9507612	49.9200 48.1629	49.9200 48.1629	3.6	4,4'-DDD
7.486 -0.028 2054357	7.937 -0.023 6725709	40.5056 38.2831	40.5056 38.2831	5.6	Endosulfan sulfate
6.821 -0.022 1824048	7.551 -0.020 5353366	33.2952 28.4969	33.2952 28.4969	15.5	4,4'-DDT
7.250 -0.020 4349529	8.135 -0.023 12857746	162.3897 160.4253	162.3897 160.4253	1.2	Methoxychlor
7.740 -0.027 2514527	8.424 -0.025 6898914	42.3962 39.3116	42.3962 39.3116	7.6	Endrin ketone
7.097 -0.027 1910650	7.692 -0.023 6298616	39.3191 38.2942	39.3191 38.2942	2.6	Endrin aldehyde
5.820 -0.023 1562151	6.454 -0.022 6663282	19.0010 14.9091	19.0010 14.9091	24.1	gamma-Chlordane
5.943 -0.024 1456135	6.592 -0.023 5984811	18.3521 14.3623	18.3521 14.3623	24.4	alpha-Chlordane
2.196 -0.014 2370234	2.363 -0.014 9270337	19.3965 15.9519	19.3965 15.9519	19.5	Hexachlorobutadiene
3.995 -0.007 1791931	4.447 -0.011 12004566	20.3230 23.8904	20.3230 23.8904	16.1	Hexachlorobenzene
8.732 -0.013 4566810	10.076 -0.022 12115436	80.0000 80.0000	80.0000 80.0000	0.0	Hexabromobiphenyl
3.659 -0.011 2842311	3.995 -0.013 17750824	35.4540 38.1542	35.4540 38.1542	7.3	Tetrachloro-m-xylene
8.586 -0.024 2317584	9.537 -0.029 8597672	37.9728 46.1498	37.9728 46.1498	19.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	88.6	95.4	88.6~	115- 0
Decachlorobiphenyl	94.9	115.4	94.9~	115- 0

~ Indicates recovery outside QC Limits

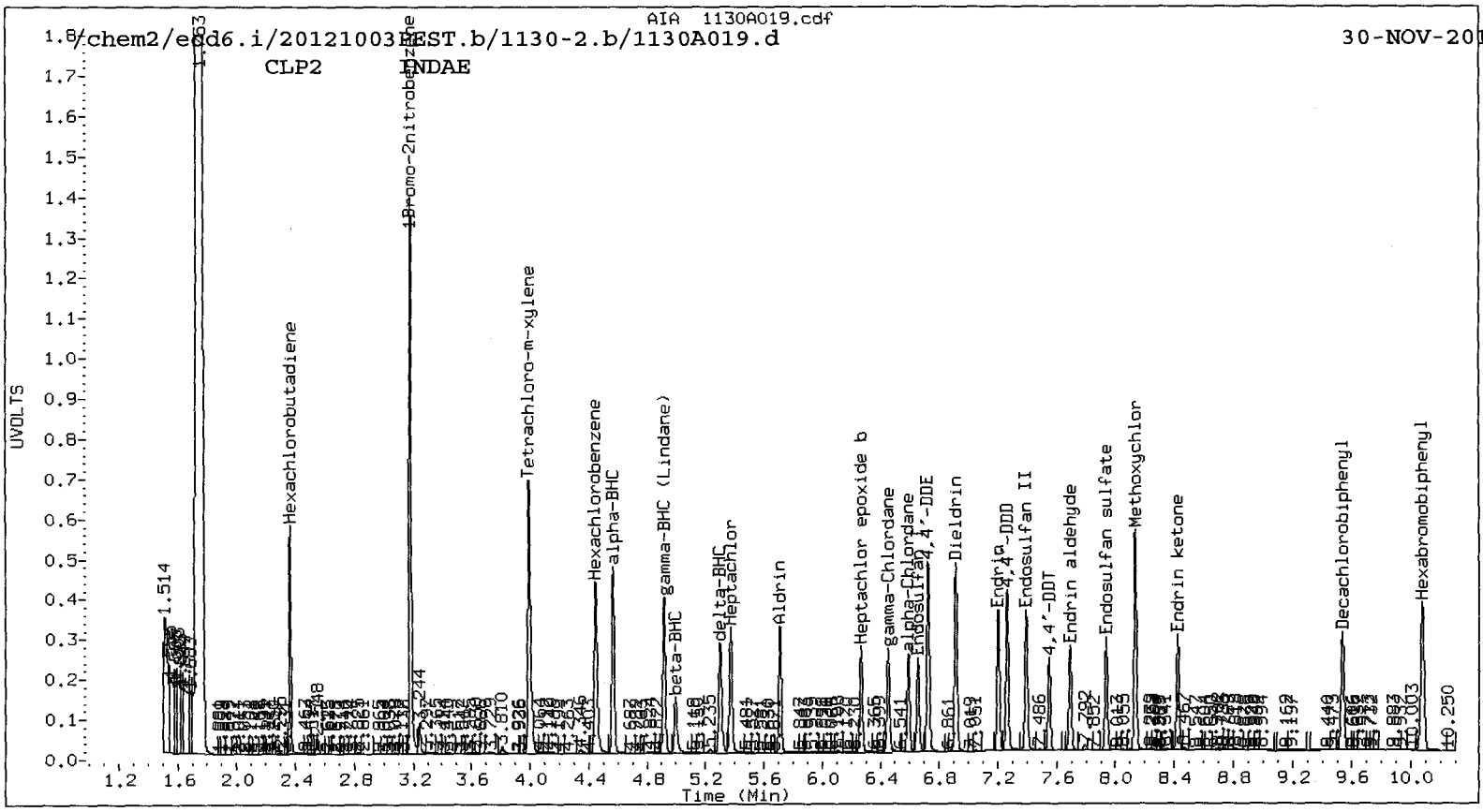
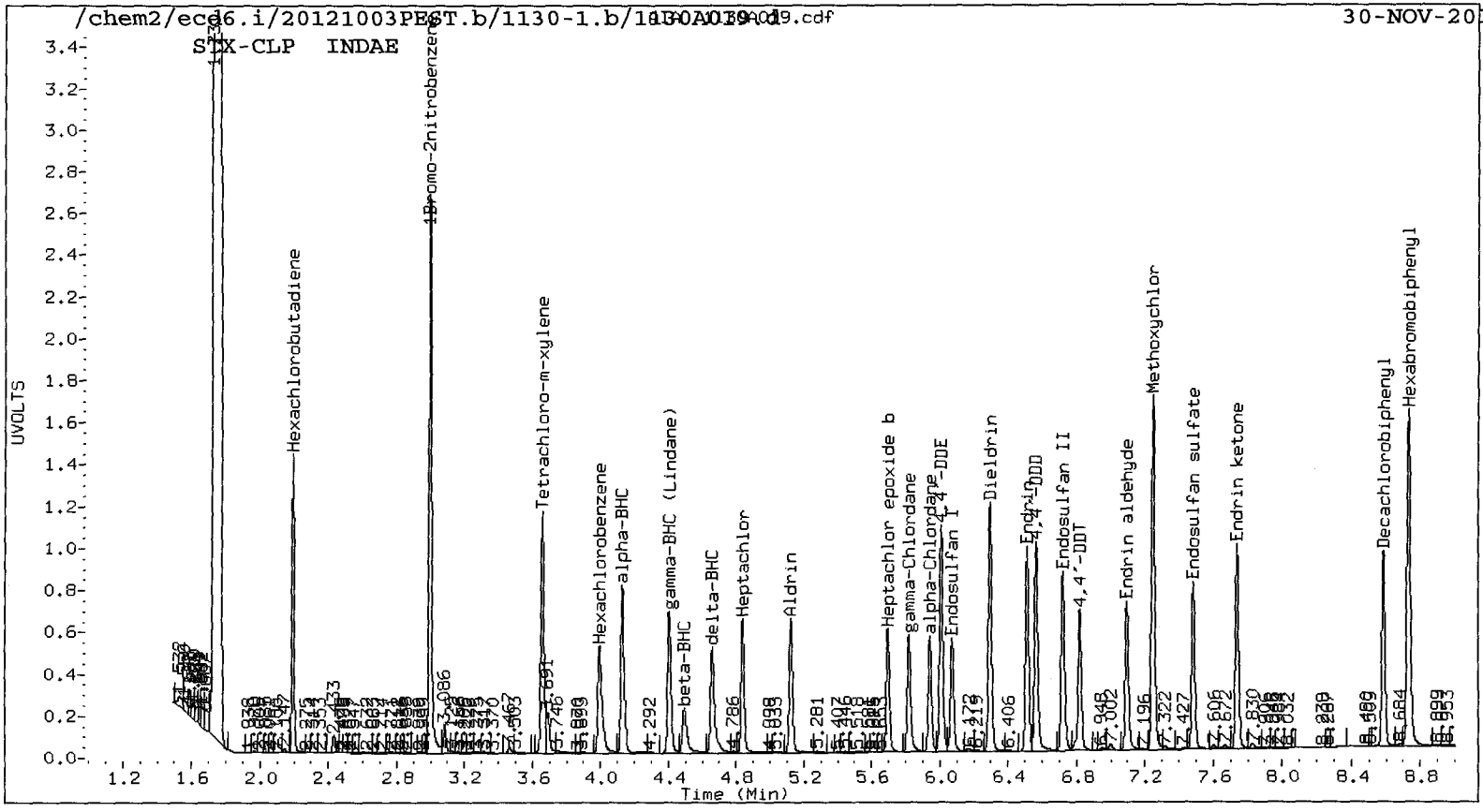
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	5410463	33.3
Hexabromobiphenyl	3748709	4566810	21.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	26766948	27.3
Hexabromobiphenyl	14864285	12115436	-18.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A020.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A020.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 19:50
 Compound Sublist: WND Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
1.730	-0.008	52141	1.729	0.001	17499431	0.0000	0.0000	---	Hexachloroethane
3.000	-0.010	4614328	3.182	-0.009	23604181	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.603	-0.024	2045112	6.181	-0.022	10077285	40.3608	33.4792	18.6	Oxychlorthane
5.689	-0.014	1638671	6.436	-0.018	7683037	43.9998	35.2954	22.0	2,4-DDE
5.929	-0.022	2537927	6.539	-0.021	10699388	42.0537	44.0547	4.6	trans-Nonachlor
6.176	-0.014	1616050	6.922	-0.017	6885508	48.4385	52.6329	8.3	2,4-DDD
6.411	-0.018	1255378	7.208	-0.019	4842378	33.2408	33.9291	2.0	2,4-DDT
6.544	-0.022	2722790	7.265	-0.021	10648822	42.5936	41.9352	1.6	cis-Nonachlor
7.412	-0.024	1574809	8.411	-0.023	4804182	37.0102	34.2179	7.8	Mirex
8.734	-0.012	4075132	10.076	-0.022	11680392	80.0000	80.0000	0.0	Hexabromobiphenyl
3.660	-0.010	2076482	3.996	-0.012	14071676	30.3702	34.2989	12.2	Tetrachloro-m-xylene
8.587	-0.023	1810516	9.537	-0.029	7396313	33.2438	41.1799	21.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	75.9	85.7	75.9~	150- 0
Decachlorobiphenyl	83.1	102.9	83.1~	150- 0

~ Indicates recovery outside QC Limits

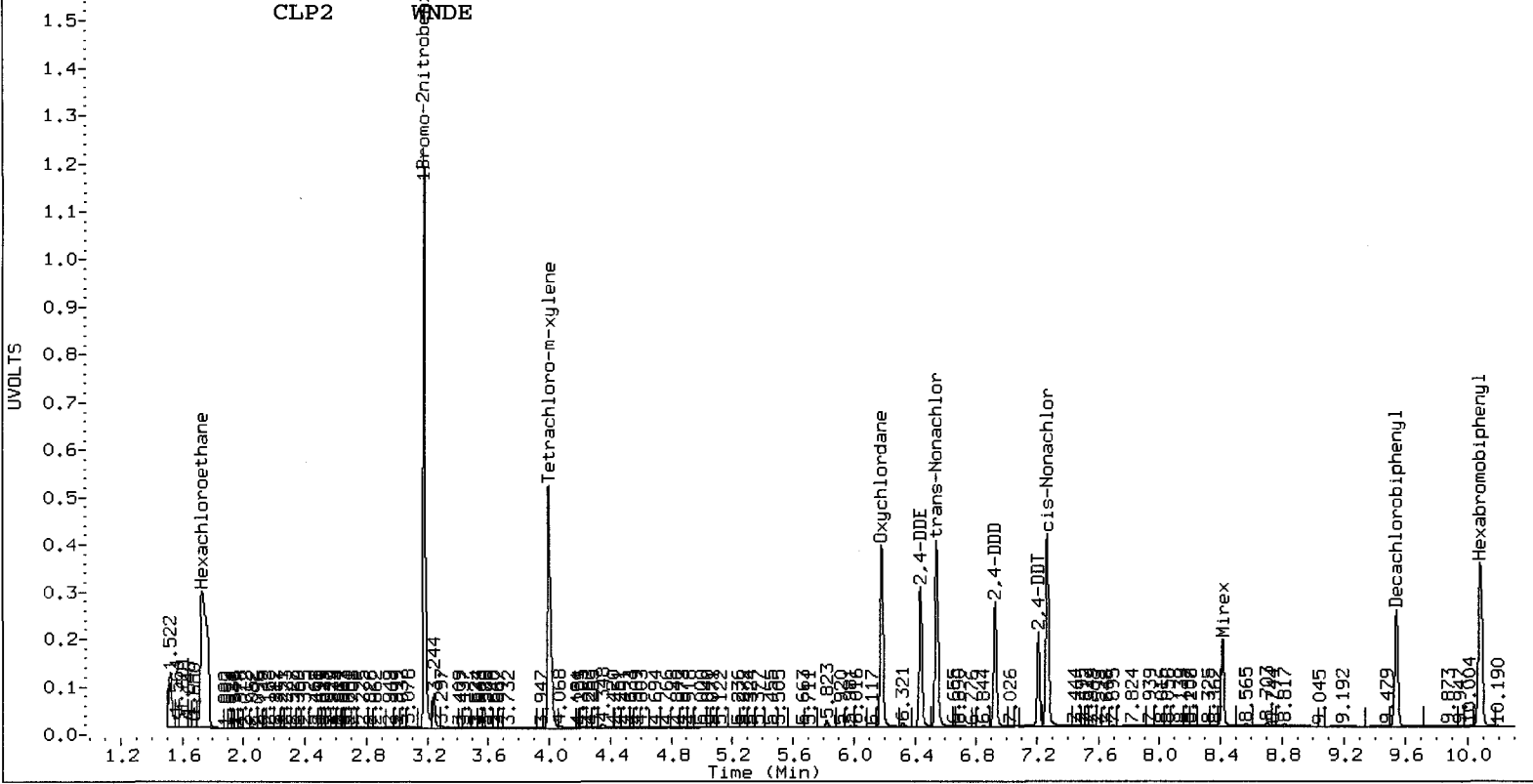
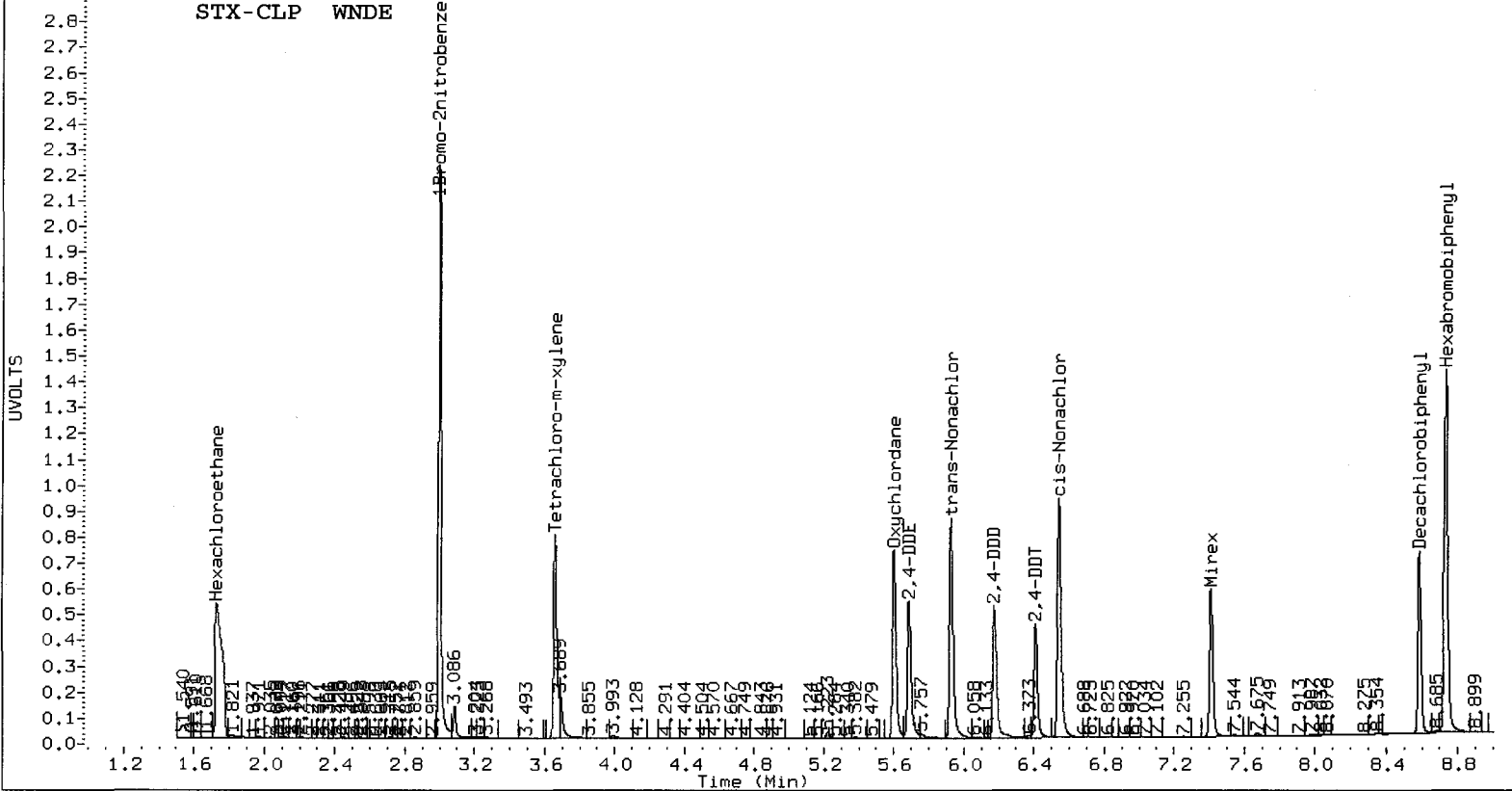
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4614328	13.7
Hexabromobiphenyl	3748709	4075132	8.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	23604181	12.2
Hexabromobiphenyl	14864285	11680392	-21.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A021.d ARI ID: VR82G
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A021.d Client ID: SG-07-S-C-dup-12110
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 20:08
 Compound Sublist: wpest Report Date: 12/01/2012 11:46
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
2.996	-0.014	4443827	3.179	-0.012	19254937	80.0000	80.0000	<i>IS</i> 0.0	1Bromo-2nitrobenzen
4.116	-0.031	35192	4.568	-0.017	179770	0.4249	0.4280	0.7	alpha-BHC
4.505	0.008	50293	4.995	-0.011	244733	1.4366	1.4395	0.2	beta-BHC
4.659	-0.004	80498	5.305	-0.009	1241532	1.2059	3.7259	102.2*	delta-BHC
4.407	-0.017	26244	4.907	-0.029	187002	0.3449	0.4925	35.2	gamma-BHC (Lindane)
4.870	0.009	10161	5.379	-0.018	123291	0.1473	0.3546	82.6*	Heptachlor
5.139	-0.010	13420	5.688	-0.048	734296	0.1905	2.1479	167.4*	Aldrin
5.715	-0.009	93096	6.263	-0.030	168418	1.3709	0.5465	86.0*	Heptachlor epoxide b
6.074	-0.025	57801	6.657	-0.023	84935	0.9197	0.3069	99.9*	Endosulfan I
6.291	-0.031	80933	6.913	-0.026	235805	1.2459	0.8055	42.9*	Dieldrin
6.002	-0.026	184644	6.721	-0.024	756222	3.0785	2.7091	12.8	4,4'-DDE
----	----	----	----	----	----	0.0000	0.0000	----	Endrin
6.719	-0.027	41847	7.386	-0.031	190793	0.8485	1.2939	41.6*	Endosulfan II
6.625	0.041	21163	7.259	-0.024	985875	0.4746	7.0760	174.9*	4,4'-DDD
7.491	-0.023	47392	7.932	-0.028	17770	1.1416	0.1433	155.4*	Endosulfan sulfate
6.815	-0.027	26393	7.550	-0.021	310317	0.5886	2.3405	119.6*	4,4'-DDT
7.241	-0.030	321696	8.174	0.016	345973	14.6741	6.1162	82.3*	Methoxychlor
7.730	-0.036	10363	8.435	-0.014	181913	0.2135	1.4687	149.2*	Endrin ketone
7.156	0.033	567672	7.702	-0.013	290808	14.2728	2.5051	140.3*	Endrin aldehyde
5.815	-0.027	99621	6.453	-0.023	849487	1.4753	2.6423	56.7*	gamma-Chlordane
5.923	-0.045	113897	6.586	-0.029	641404	1.7477	2.1398	20.2	alpha-Chlordane
2.207	-0.003	20753	2.348	-0.029	70577	0.2068	0.1688	20.2	Hexachlorobutadiene
3.985	-0.017	74880	4.441	-0.017	287180	1.0340	0.7945	26.2	Hexachlorobenzene
5.601	-0.026	16111	6.162	-0.040	702770	0.3466	2.8621	156.8*	Oxychlorane
5.683	-0.020	28026	----	----	----	0.8204	0.0000	----	2,4-DDE
5.937	-0.014	118711	6.535	-0.026	675048	2.1445	3.7968	55.6*	trans-Nonachlor
6.166	-0.024	90092	6.948	0.009	57328	2.9440	0.5986	132.4*	2,4-DDD
6.414	-0.015	23131	7.199	-0.028	79774	0.6677	0.7635	13.4	2,4-DDT
6.557	-0.009	204345	----	----	----	3.4851	0.0000	----	cis-Nonachlor
7.408	-0.029	181258	8.398	-0.036	139249	4.6442	1.3548	109.7*	Mirex
8.729	-0.017	3737867	10.076	-0.022	8550885	80.0000	80.0000	<i>IS</i> 0.0	Hexabromobiphenyl
1.730	-0.008	549062	1.728	0.000	115354012	0.0000	0.0000	----	Hexachloroethane
----	----	----	7.311	-0.025	396568	0.0000	34.0890	----	Kepone
3.654	-0.016	450062	3.992	-0.016	1737222	6.8351	5.1908	27.3	Tetrachloro-m-xylene
8.585	-0.025	371117	9.539	-0.027	1652017	7.4291	12.5641	51.4*	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	17.1	13.0	13.0~	42-112
Decachlorobiphenyl	18.6	31.4	18.6~	59-123

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	4443827	9.5
Hexabromobiphenyl	3748709	3737867	-0.3

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	19254937	-8.5
Hexabromobiphenyl	14864285	8550885	-42.5

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 - Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.475	-0.015	7998	9.4	1	7.176	0.018	106721	25.3
Toxaphene	2	6.815	-0.029	26393	23.2	2	7.472	-0.011	195876	32.0
Toxaphene	3	7.195	-0.018	237074	257.0	3	7.702	-0.012	290808	44.0
Toxaphene	4	7.491	0.025	47392	41.9	4	8.174	-0.005	345973	75.8
Toxaphene	5	7.730	-0.015	10363	10.7	5	8.540	0.014	354793	173.9
Toxaphene	6	7.846	-0.029	173382	261.9	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 100.686					Total CLP2Ave (5 peaks): 70.212					RPD = 36
Corrected Ave (4 peaks): 21.297					Corrected Ave (4 peaks): 44.277					RPD = 70*

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

YZ 12/1/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A022.d ARI ID: VR82H
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A022.d Client ID: SG-08-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 20:26
 Compound Sublist: wpest Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

STX-CLP Col	CLP2 Col	STX-CLP	CLP2	RPD	Compound/Flag
RT Shift Response	RT Shift Response	on col on col	on col on col	RPD	Compound/Flag
2.996 -0.014 4782574	3.179 -0.012 17313292	80.0000 80.0000	IS 0.0	0.0	1Bromo-2nitrobenzen
4.116 -0.032 24197	4.567 -0.018 389515	0.2715 1.0313	116.6*		alpha-BHC
4.475 -0.023 13562	4.996 -0.011 146596	0.3600 0.9590	90.8*		beta-BHC
4.636 -0.027 14888	5.305 -0.010 520272	0.2072 1.7365	157.4*		delta-BHC
4.376 -0.049 83696	4.906 -0.031 159190	1.0221 0.4662	74.7*		gamma-BHC (Lindane)
4.869 0.007 13315	5.377 -0.021 71013	0.1793 0.2272	23.5		Heptachlor
5.122 -0.026 71979	5.709 -0.026 371194	0.9494 1.2076	23.9		Aldrin
5.715 -0.008 75435	6.261 -0.032 79371	1.0321 0.2864	113.1*		Heptachlor epoxide b
6.078 -0.021 40827	6.660 -0.020 74403	0.6036 0.2990	67.5*		Endosulfan I
6.283 -0.039 26881	6.915 -0.024 145337	0.3845 0.5521	35.8		Dieldrin
6.002 -0.026 154459	6.722 -0.023 526210	2.3928 2.0965	13.2		4,4'-DDE
----	----	0.0000 0.0000	---		Endrin
6.740 -0.006 24582	7.383 -0.033 224090	0.4657 1.3633	98.2*		Endosulfan II
6.626 0.042 16433	7.260 -0.023 761919	0.3443 4.9060	173.8*		4,4'-DDD
7.491 -0.022 68879	7.955 -0.005 193779	1.5502 1.4020	10.0		Endosulfan sulfate
6.820 -0.022 24388	7.557 -0.014 575380	0.5082 3.8932	153.8*		4,4'-DDT
7.243 -0.028 112659	8.132 -0.026 59721	4.8013 0.9471	134.1*		Methoxychlor
7.735 -0.031 3743	8.429 -0.019 434408	0.0720 3.1464	191.0*		Endrin ketone
7.090 -0.033 11010	7.702 -0.013 537540	0.2586 4.1541	176.6*		Endrin aldehyde
5.815 -0.027 65946	6.454 -0.022 550489	0.9074 1.9043	70.9*		gamma-Chlordane
----	6.579 -0.036 501338	0.0000 1.8601	---		alpha-Chlordane
2.207 -0.003 27171	2.360 -0.017 52213	0.2515 0.1389	57.7*		Hexachlorobutadiene
3.984 -0.018 65074	4.439 -0.019 87759	0.8349 0.2700	102.3*		Hexachlorobenzene
5.601 -0.026 13814	6.163 -0.039 628295	0.2777 2.8458	164.4*		Oxychlorane
5.683 -0.020 24786	----	0.6779 0.0000	---		2,4-DDE
5.938 -0.013 154347	6.534 -0.027 501906	2.6051 2.5325	2.8		trans-Nonachlor
6.166 -0.024 89190	6.960 0.021 258539	2.7231 2.4218	11.7		2,4-DDD
6.416 -0.013 12252	7.200 -0.027 41074	0.3305 0.3527	6.5		2,4-DDT
6.558 -0.008 170007	----	2.7090 0.0000	---		cis-Nonachlor
7.408 -0.029 263575	8.402 -0.032 534742	6.3096 4.6674	29.9		Mirex
8.728 -0.018 4000713	10.075 -0.023 9531542	80.0000 80.0000	IS 0.0		Hexabromobiphenyl
1.729 -0.008 663684	1.738 0.010 131456643	0.0000 0.0000	---		Hexachloroethane
----	7.311 -0.025 343665	0.0000 26.5020	---		Kepone
3.654 -0.016 411873	3.991 -0.016 1589535	5.8120 5.2822	9.6		Tetrachloro-m-xylene
8.585 -0.025 383845	9.538 -0.028 1471732	7.1791 10.0414	33.2		Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	14.5	13.2	13.2~	42-112
Decachlorobiphenyl	17.9	25.1	17.9~	59-123

~ Indicates recovery outside QC Limits

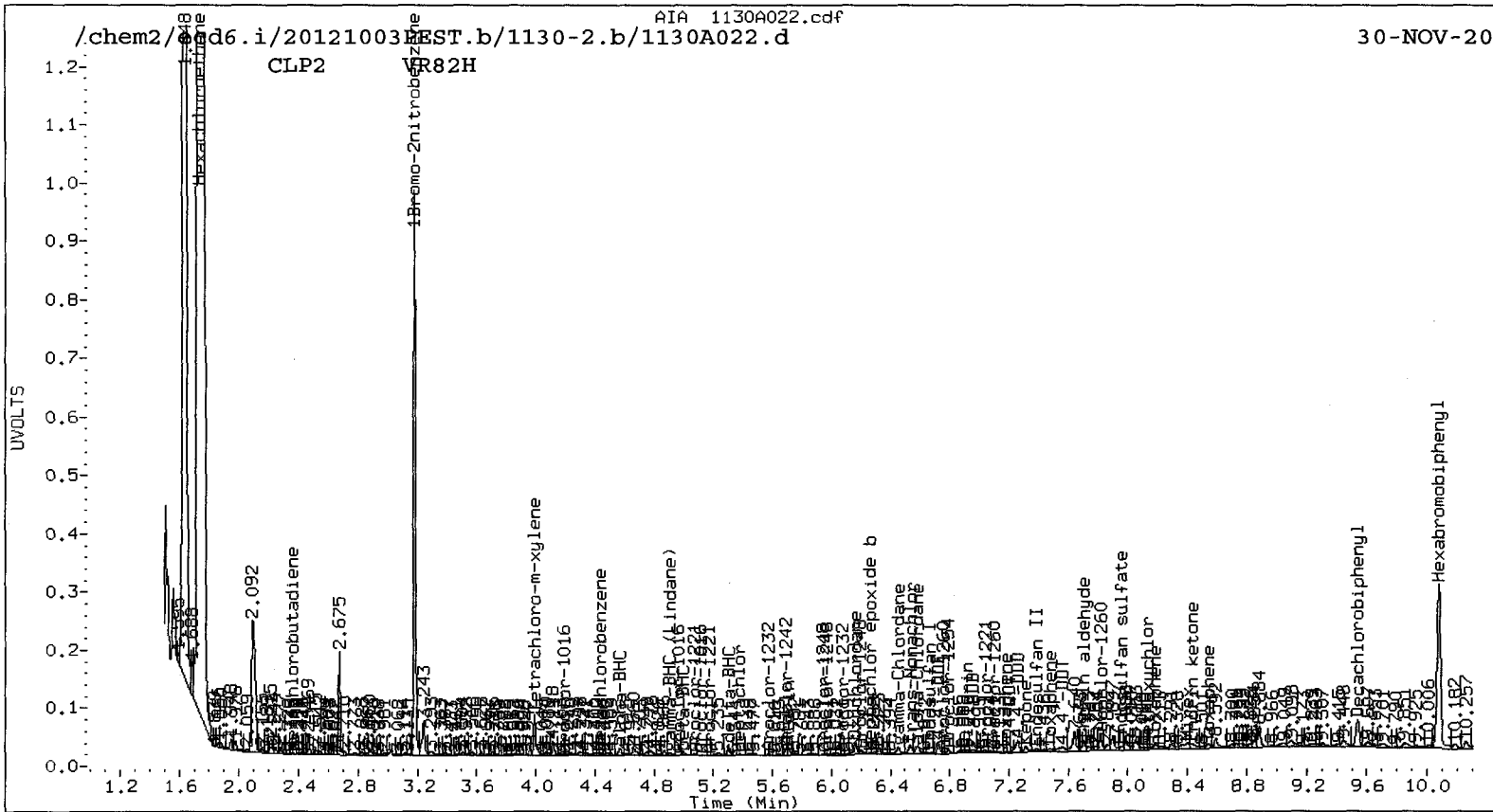
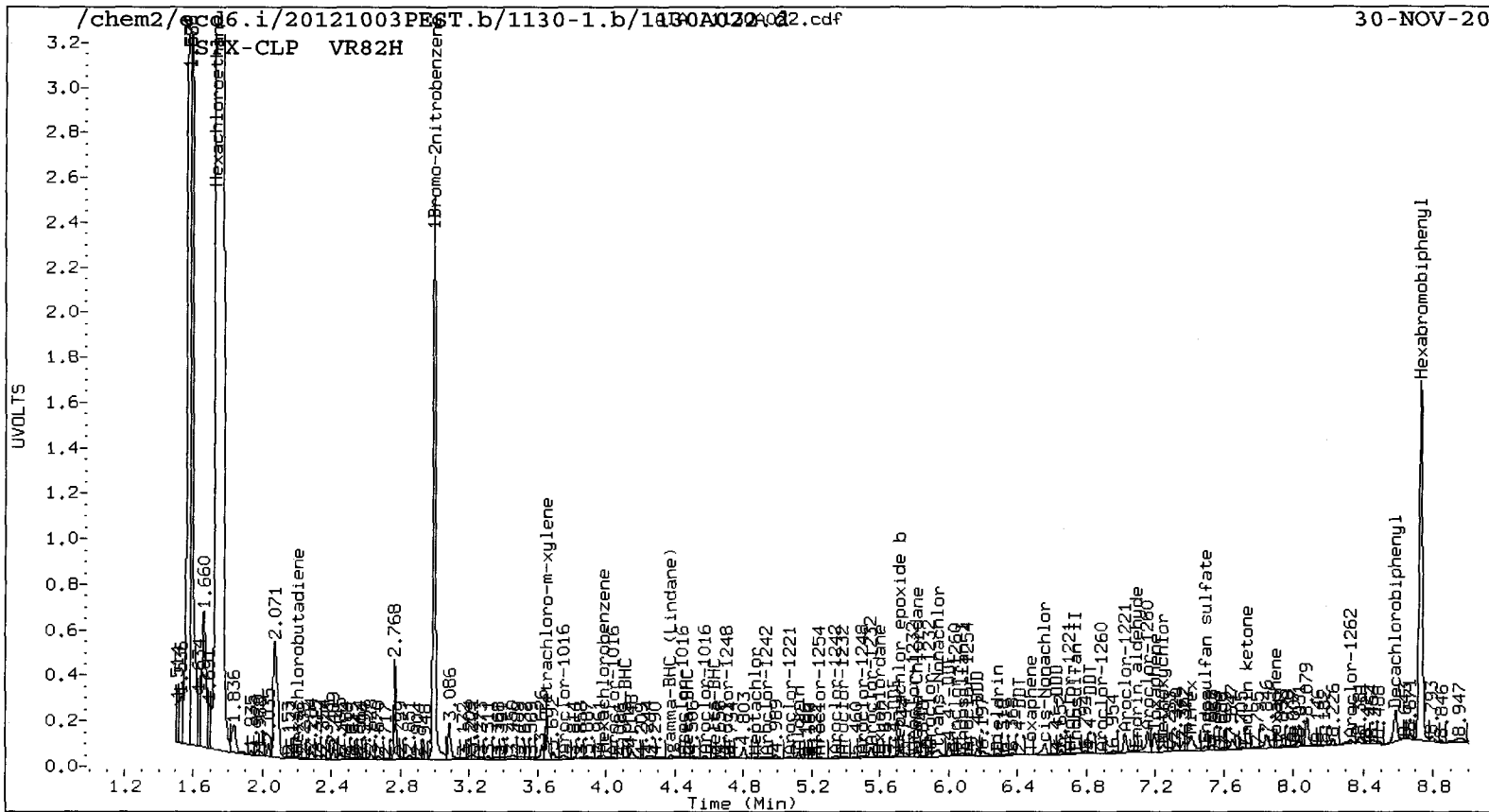
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4782574	17.8
Hexabromobiphenyl	3748709	4000713	6.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	17313292	-17.7
Hexabromobiphenyl	14864285	9531542	-35.9

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.476	-0.014	8677	9.5	1	7.177	0.019	24230	5.2
Toxaphene	2	6.820	-0.024	24388	20.0	2	7.474	-0.008	197841	29.0
Toxaphene	3	7.195	-0.017	241117	244.2	3	7.702	-0.011	537540	73.0
Toxaphene	4	7.491	0.026	68879	56.9	4	8.184	0.004	397691	78.1
Toxaphene	5	7.735	-0.010	3743	3.6	5	8.539	0.013	314943	138.5
Toxaphene	6	7.897	0.023	2060	2.9	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 56.198					Total CLP2Ave (5 peaks): 64.761					RPD = 14
Corrected Ave (5 peaks): 18.592					Corrected Ave (4 peaks): 46.320					RPD = 85*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A023.d ARI ID: VR82HMS
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A023.d Client ID: SG-08-S-C-12110 MS
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 20:44
 Compound Sublist: wpest Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

YZ 12/01/12

STX-CLP Col	CLP2 Col	STX-CLP	CLP2	RPD	Compound/Flag
RT Shift Response	RT Shift Response	on col on col	on col on col	RPD	Compound/Flag
2.997 -0.014 4621447	3.179 -0.012 17703402	80.0000 80.0000	80.0000 80.0000	0.0	1Bromo-2nitrobenzen
4.126 -0.021 258313	4.565 -0.020 1332600	2.9993 3.4505	14.0		alpha-BHC
4.481 -0.016 150470	4.991 -0.016 541350	4.1331 3.4633	17.6		beta-BHC
4.645 -0.018 131577	5.303 -0.012 1079581	1.8953 3.5239	60.1*		delta-BHC
4.402 -0.023 239891	4.915 -0.021 972621	3.0317 2.7858	8.5		gamma-BHC (Lindane)
4.836 -0.025 166058	5.372 -0.025 705220	2.3147 2.2062	4.8		Heptachlor
5.122 -0.027 217022	5.710 -0.025 1213083	2.9622 3.8594	26.3		Aldrin
5.694 -0.029 303502	6.268 -0.026 929282	4.2975 3.2796	26.9		Heptachlor epoxide b
6.071 -0.028 221606	6.655 -0.025 689138	3.3907 2.7084	22.4		Endosulfan I
6.293 -0.029 423300	6.913 -0.026 1467766	6.2658 5.4530	13.9		Dieldrin
6.002 -0.025 531512	6.722 -0.024 1873445	8.5211 7.2996	15.4		4,4'-DDE
6.511 -0.029 314006	7.202 -0.026 1000432	5.7665 6.5208	12.3		Endrin N
6.717 -0.029 333133	7.392 -0.025 1210258	6.3353 7.8918	21.9		Endosulfan II
6.558 -0.026 478456	7.260 -0.023 1767634	10.0626 12.1994	19.2		4,4'-DDD M
7.484 -0.030 260226	7.936 -0.025 679624	5.8795 5.2704	10.9		Endosulfan sulfate
6.816 -0.027 188205	7.548 -0.022 827740	3.9367 6.0030	41.6*		4,4'-DDT
7.245 -0.026 534054	8.133 -0.025 1243009	22.8482 21.1294	7.8		Methoxychlor
7.736 -0.030 314983	8.423 -0.026 1199390	6.0857 9.3112	41.9*		Endrin ketone
7.093 -0.031 102791	7.699 -0.016 835686	2.4240 6.9221	96.3*		Endrin aldehyde
5.816 -0.027 304264	6.452 -0.024 1180506	4.3327 3.9937	8.1		gamma-Chlordane
5.939 -0.028 334334	6.589 -0.026 1154327	4.9331 4.1884	16.3		alpha-Chlordane M
2.193 -0.017 281722	2.361 -0.016 1136417	2.6990 2.9566	9.1		Hexachlorobutadiene
3.985 -0.017 294427	4.441 -0.017 1540786	3.9093 4.6362	17.0		Hexachlorobenzene
5.602 -0.025 7079	6.197 -0.005 217086	0.1429 0.9616	148.3*		Oxychlorthane
5.694 -0.009 303502	----	8.3330 0.0000	---		2,4-DDE
5.939 -0.011 334334	6.534 -0.026 493771	5.6648 2.6704	71.8*		trans-Nonachlor
6.166 -0.024 96295	6.959 0.020 178966	2.9513 1.7969	48.6*		2,4-DDD
6.415 -0.014 16934	7.202 -0.025 1000432	0.4585 9.2071	181.0*		2,4-DDT
6.558 -0.008 478456	----	7.6533 0.0000	---		cis-Nonachlor
7.408 -0.029 258100	8.464 0.030 60214	6.2024 0.5633	166.7*		Mirex
8.728 -0.017 3985312	10.075 -0.023 8892720	80.0000 80.0000	0.0		Hexabromobiphenyl
1.729 -0.008 361649	1.728 0.000 80112132	0.0000 0.0000	---		Hexachloroethane
----	7.309 -0.027 294007	0.0000 24.3013	---		Kepone
3.654 -0.016 434074	3.991 -0.017 1539975	6.3389 5.0047	23.5		Tetrachloro-m-xylene
8.585 -0.025 519488	9.538 -0.028 1748016	9.7536 12.7832	26.9		Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	15.8	12.5	12.5~	42-112
Decachlorobiphenyl	24.4	32.0	24.4~	59-123
4,4'-DDE	0.0	0.0	0.0~	0- 0
Endrin	1153295.1	0.0	0.0~	10-200
4,4'-DDD	0.0	0.0	0.0~	0- 0
4,4'-DDT	787330.6	0.0	0.0~	0- 0
Endrin ketone	0.0	0.0	0.0~	0- 0
Endrin aldehyde	0.0	0.0	0.0~	0- 0

~ Indicates recovery outside QC Limits

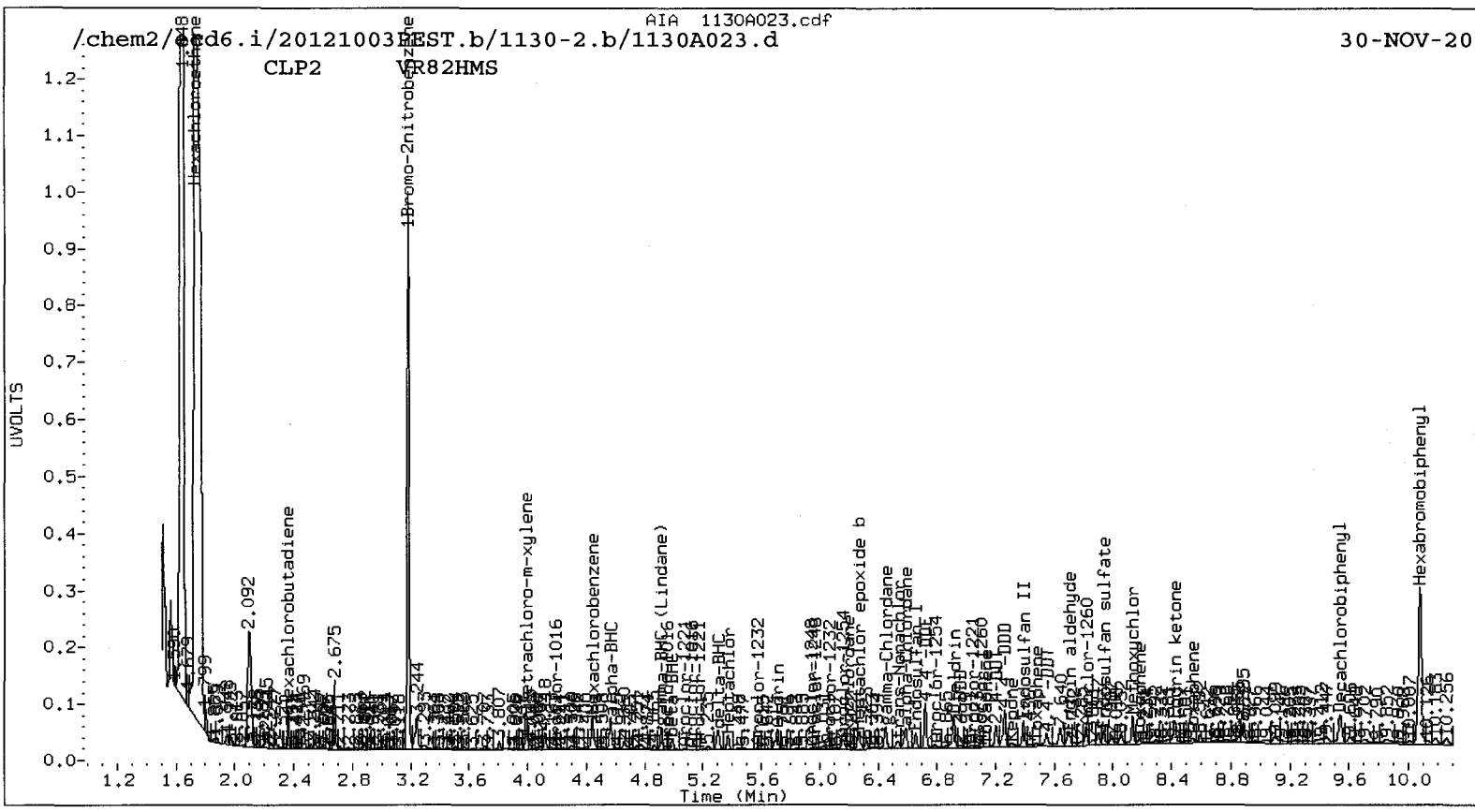
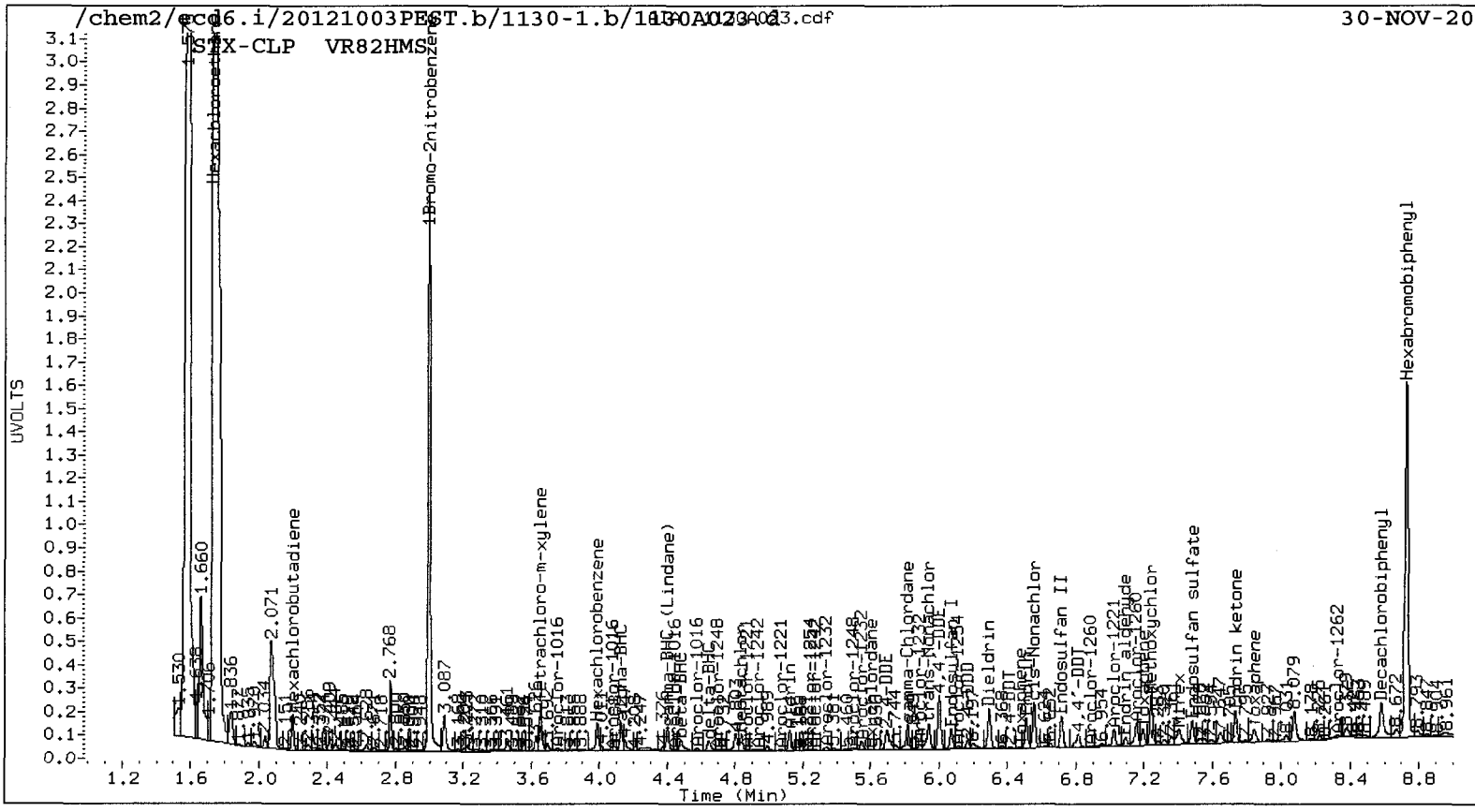
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4621447	13.8
Hexabromobiphenyl	3748709	3985312	6.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	17703402	-15.8
Hexabromobiphenyl	14864285	8892720	-40.2

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
Toxaphene	1	6.475	-0.015	5774	6.3	1	7.134	-0.024	39896	9.1
Toxaphene	2	6.816	-0.028	188205	154.9	2	7.474	-0.008	219126	34.5
Toxaphene	3	7.195	-0.017	200554	203.9	3	7.699	-0.014	835686	121.6
Toxaphene	4	7.484	0.018	260226	215.9	4	8.183	0.003	261842	55.1
Toxaphene	5	7.736	-0.009	314983	305.5	5	8.540	0.014	271360	127.9
Toxaphene	6	7.846	-0.029	172942	245.0	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 188.618					Total CLP2Ave (5 peaks): 69.640					RPD = 92*
Corrected Ave (6 peaks): 188.618					Corrected Ave (3 peaks): 32.898					RPD = 141*



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A024.d ARI ID: VR82HMSD
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A024.d Client ID: SG-08-S-C-12110 MSD
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 21:01
 Compound Sublist: wpest Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

YZ 12/01/12

STX-CLP Col	CLP2 Col	STX-CLP	CLP2	RPD	Compound/Flag
RT Shift Response	RT Shift Response	on col on col	on col on col	RPD	Compound/Flag
2.997 -0.014 4954083	3.179 -0.012 18715738	80.0000 80.0000	80.0000 80.0000	0.0	1Bromo-2nitrobenzen
4.126 -0.021 237876	4.566 -0.020 1247052	2.5765 3.0544	2.5765 3.0544	17.0	alpha-BHC
4.481 -0.016 147177	4.991 -0.016 515812	3.7712 3.1215	3.7712 3.1215	18.9	beta-BHC
4.645 -0.018 125627	5.303 -0.012 977087	1.6881 3.0168	1.6881 3.0168	56.5*	delta-BHC
4.402 -0.022 210543	4.915 -0.021 831316	2.4822 2.2523	2.4822 2.2523	9.7	gamma-BHC (Lindane)
4.837 -0.025 129696	5.373 -0.024 570146	1.6864 1.6872	1.6864 1.6872	0.0	Heptachlor
5.122 -0.026 193620	5.711 -0.025 1071759	2.4653 3.2254	2.4653 3.2254	26.7	Aldrin
5.694 -0.029 261536	6.268 -0.026 849792	3.4546 2.8369	3.4546 2.8369	19.6	Heptachlor epoxide b
6.071 -0.028 191413	6.655 -0.025 621728	2.7321 2.3113	2.7321 2.3113	16.7	Endosulfan I
6.293 -0.030 498795	6.913 -0.026 1367624	6.8875 4.8061	6.8875 4.8061	35.6	Dieldrin
6.002 -0.025 514083	6.722 -0.023 1840187	7.6883 6.7822	7.6883 6.7822	12.5	4,4'-DDE
6.512 -0.028 262151	7.224 -0.004 723931	4.7650 4.5276	4.7650 4.5276	5.1	Endrin M
6.718 -0.028 335959	7.392 -0.024 1441926	6.3238 9.0220	6.3238 9.0220	35.2	Endosulfan II
6.557 -0.027 533534	7.261 -0.022 1482398	11.1063 9.8167	11.1063 9.8167	12.3	4,4'-DDD M
7.484 -0.029 236908	7.936 -0.024 544121	5.2980 4.0488	5.2980 4.0488	26.7	Endosulfan sulfate
6.793 -0.049 445899	7.556 -0.015 1499479	9.2315 10.4345	9.2315 10.4345	12.2	4,4'-DDT
7.245 -0.025 390027	8.133 -0.025 1084970	16.5158 17.6965	16.5158 17.6965	6.9	Methoxychlor
7.737 -0.030 267014	8.424 -0.025 1279142	5.1062 9.5284	5.1062 9.5284	60.4*	Endrin ketone
7.118 -0.005 31722	7.696 -0.019 826833	0.7404 6.5715	0.7404 6.5715	159.5*	Endrin aldehyde
5.816 -0.026 235787	6.452 -0.024 915620	3.1322 2.9300	3.1322 2.9300	6.7	gamma-Chlordane
5.940 -0.027 337556	6.588 -0.026 1028815	4.6462 3.5311	4.6462 3.5311	27.3	alpha-Chlordane
2.193 -0.017 267229	2.361 -0.016 1066725	2.3883 2.6252	2.3883 2.6252	9.5	Hexachlorobutadiene
3.986 -0.016 284025	4.442 -0.016 1461357	3.5180 4.1594	3.5180 4.1594	16.7	Hexachlorobenzene
5.601 -0.026 6545	6.163 -0.039 575566	0.1307 2.4116	0.1307 2.4116	179.4*	Oxychlorane
5.694 -0.009 261536	6.421 -0.032 276625	7.1074 1.6027	7.1074 1.6027	126.4*	2,4-DDE
----	6.533 -0.027 459159	0.0000 2.3827	0.0000 2.3827	---	trans-Nonachlor
6.165 -0.025 105616	6.957 0.018 224872	3.2039 2.1664	3.2039 2.1664	38.6	2,4-DDD
6.417 -0.012 21997	7.203 -0.024 814936	0.5895 7.1964	0.5895 7.1964	169.7*	2,4-DDT
6.557 -0.009 533534	----	8.4472 0.0000	8.4472 0.0000	---	cis-Nonachlor
7.407 -0.030 319264	----	7.5938 0.0000	7.5938 0.0000	---	Mirex
8.728 -0.018 4026461	10.075 -0.023 9267814	80.0000 80.0000	80.0000 80.0000	0.0	Hexabromobiphenyl
1.730 -0.007 1302490	1.693 -0.035 1118937	0.0000 0.0000	0.0000 0.0000	---	Hexachloroethane
----	7.311 -0.026 224136	0.0000 17.7764	0.0000 17.7764	---	Kepone
3.654 -0.016 395548	3.992 -0.016 1604461	5.3884 4.9323	5.3884 4.9323	8.8	Tetrachloro-m-xylene
8.585 -0.025 347967	9.538 -0.028 1259259	6.4664 8.8362	6.4664 8.8362	31.0	Decachlorobiphenyl

* Indicates RPD > 40%
 A Indicates Peak Height was used for Column 1 quantitation instead of Area
 B Indicates Peak Height was used for Column 2 quantitation instead of Area
 M Indicates Column 1 peak was manually integrated
 N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	13.5	12.3	12.3~	42-112
Decachlorobiphenyl	16.2	22.1	16.2~	59-123
4,4'-DDE	0.0	0.0	0.0~	0- 0
Endrin	952999.9	0.0	0.0~	10-200
4,4'-DDD	0.0	0.0	0.0~	0- 0
4,4'-DDT	1846295.8	0.0	0.0~	0- 0
Endrin ketone	0.0	0.0	0.0~	0- 0
Endrin aldehyde	0.0	0.0	0.0~	0- 0

~ Indicates recovery outside QC Limits

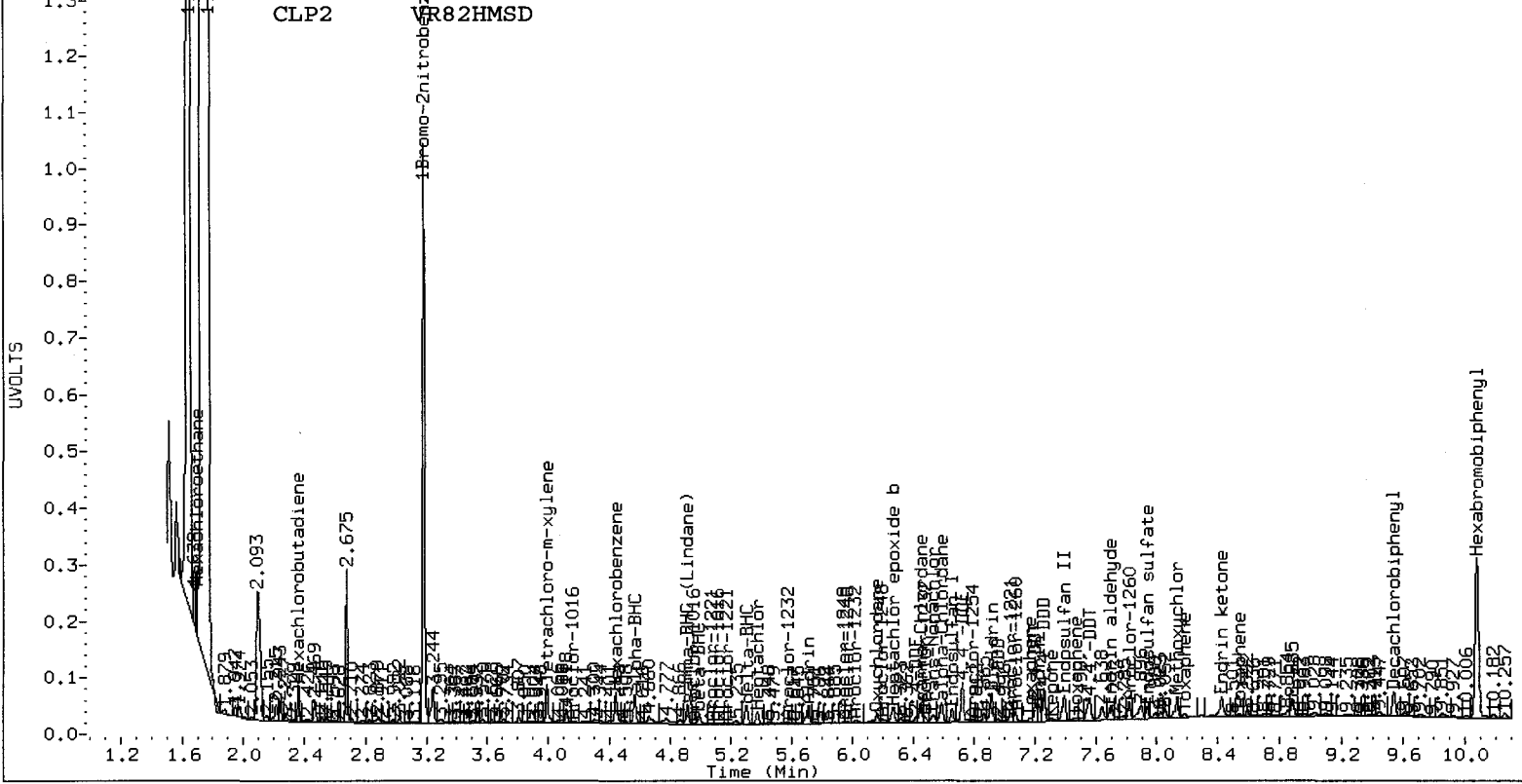
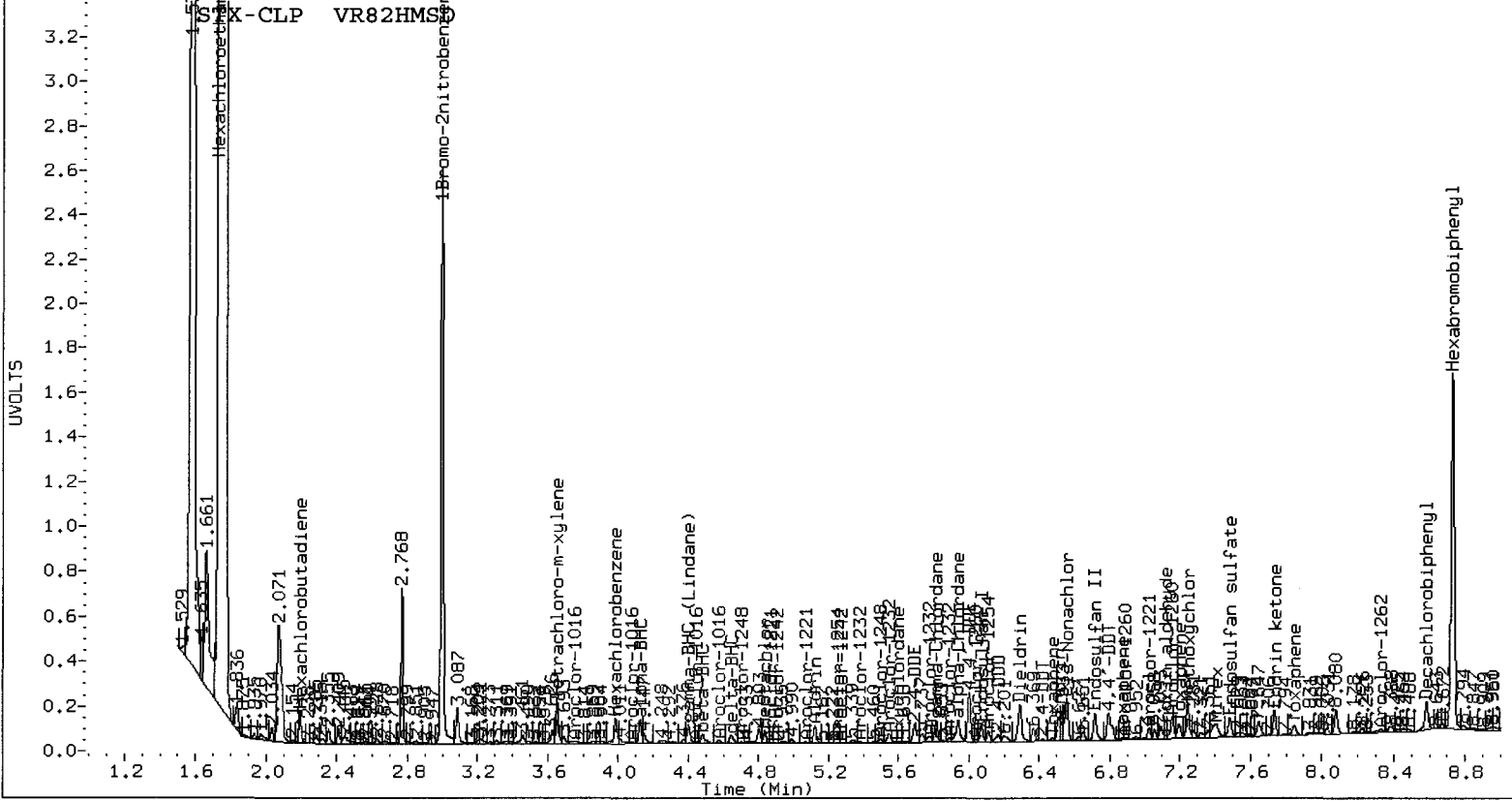
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	4954083	22.0
Hexabromobiphenyl	3748709	4026461	7.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	18715738	-11.0
Hexabromobiphenyl	14864285	9267814	-37.7

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col				
			Shift	Height	Amount			Shift	Height	Amount		
Toxaphene	1	6.478	-0.012	31172	33.9	1	7.170	0.012	229624	50.2		
Toxaphene	2	6.873	0.030	19727	16.1	2	7.469	-0.014	256680	38.7		
Toxaphene	3	7.196	-0.016	188012	189.2	3	7.696	-0.017	826833	115.4		
Toxaphene	4	7.484	0.019	236908	194.6	4	8.183	0.003	270608	54.7		
Toxaphene	5	7.737	-0.008	267014	256.4	5	8.541	0.015	123392	55.8		
Toxaphene	6	7.846	-0.028	142253	199.5	NS	---	---	---	---		
Total STX-CLPAve (6 peaks):					148.271	Total CLP2Ave (5 peaks):					62.976	RPD = 81*
Corrected Ave (5 peaks):					126.653	Corrected Ave (4 peaks):					49.865	RPD = 87*



VR82 : 014410

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Y-2 12/01/12

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A025.d ARI ID: VR82I
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A025.d Client ID: SG-09-S-C-121108
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 21:19
 Compound Sublist: wpest Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 5.000

STX-CLP Col	CLP2 Col	STX-CLP	CLP2	RPD	Compound/Flag
RT Shift Response	RT Shift Response	on col on col	on col on col	RPD	Compound/Flag
2.997 -0.014 4793017	3.179 -0.011 18085432	80.0000 80.0000	80.0000 80.0000	0.0	1Bromo-2nitrobenzen
4.148 0.001 205885	4.569 -0.017 499923	2.3049 1.2671	58.1*	alpha-BHC	
4.487 -0.010 31270	4.996 -0.011 187538	0.8282 1.1745	34.6	beta-BHC	
4.636 -0.027 20666	5.305 -0.009 901339	0.2870 2.8799	163.7*	delta-BHC	
4.398 -0.026 41703	4.907 -0.030 167332	0.5082 0.4692	8.0	gamma-BHC (Lindane)	
4.868 0.006 10710	5.380 -0.017 84591	0.1439 0.2590	57.1*	Heptachlor	
5.125 -0.024 16249	5.689 -0.047 593526	0.2138 1.8484	158.5*	Aldrin	
5.715 -0.008 86294	6.260 -0.033 140828	1.1781 0.4865	83.1*	Heptachlor epoxide b	
6.077 -0.022 43726	6.663 -0.017 61279	0.6451 0.2358	92.9*	Endosulfan I	
6.283 -0.039 36171	6.915 -0.024 145290	0.5162 0.5284	2.3	Dieldrin	
6.002 -0.025 177674	6.722 -0.023 645202	2.7465 2.4608	11.0	4,4'-DDE	
----	7.178 -0.050 81726	0.0000 0.5405	---	Endrin	
6.738 -0.008 17703	7.382 -0.035 164439	0.3451 1.0879	103.7*	Endosulfan II	
6.626 0.042 16259	7.260 -0.023 905071	0.3505 6.3374	179.0*	4,4'-DDD	
7.494 -0.020 48877	7.957 -0.003 44343	1.1321 0.3489	105.8*	Endosulfan sulfate	
6.819 -0.023 20394	7.555 -0.015 364364	0.4373 2.6810	143.9*	4,4'-DDT	
7.242 -0.029 108474	8.182 0.023 236057	4.7574 4.0711	15.5	Methoxychlor	
7.736 -0.030 4967	8.432 -0.017 127886	0.0984 1.0073	164.4*	Endrin ketone	
7.156 0.033 366967	7.702 -0.013 221392	8.8712 1.8605	130.7*	Endrin aldehyde	
5.816 -0.027 75076	6.453 -0.023 686892	1.0308 2.2747	75.3*	gamma-Chlordane	
----	6.581 -0.034 548205	0.0000 1.9471	---	alpha-Chlordane	
2.207 -0.003 24456	2.349 -0.028 73983	0.2259 0.1884	18.1	Hexachlorobutadiene	
3.985 -0.018 62278	4.439 -0.019 131887	0.7973 0.3885	69.0*	Hexachlorobenzene	
5.603 -0.024 12451	6.163 -0.039 579854	0.2576 2.5143	162.8*	Oxychlordane	
5.683 -0.020 25248	----	0.7106 0.0000	---	2,4-DDE	
5.937 -0.013 168704	6.535 -0.026 531620	2.9303 2.9170	0.5	trans-Nonachlor	
6.166 -0.024 92212	6.956 0.017 236190	2.8972 2.4060	18.5	2,4-DDD	
6.416 -0.013 21478	7.199 -0.028 67875	0.5961 0.6338	6.1	2,4-DDT	
6.558 -0.009 196371	----	3.2201 0.0000	---	cis-Nonachlor	
7.408 -0.029 172606	8.401 -0.033 270774	4.2522 2.5701	49.3*	Mirex	
8.729 -0.017 3887602	10.075 -0.023 8764959	80.0000 80.0000	0.0	Hexabromobiphenyl	
1.730 -0.007 537338	7.129 0.001 115023579	0.0000 0.0000	---	Hexachloroethane	
----	7.311 -0.026 252350	0.0000 21.1623	---	Kepone	
3.654 -0.016 476441	3.992 -0.016 1627883	6.7085 5.1787	25.7	Tetrachloro-m-xylene	
8.585 -0.025 440422	9.539 -0.027 1539305	8.4769 11.4210	29.6	Decachlorobiphenyl	

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	16.8	12.9	12.9~	42-112
Decachlorobiphenyl	21.2	28.6	21.2~	59-123

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	4060064	4793017	18.1
Hexabromobiphenyl	3748709	3887602	3.7

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	18085432	-14.0
Hexabromobiphenyl	14864285	8764959	-41.0

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	STX-CLP Col				CLP2 Col				
		RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.475	-0.015	8002	9.0	1	7.178	0.020	81726	18.9
Toxaphene	2	6.819	-0.025	20394	17.2	2	7.475	-0.008	193198	30.8
Toxaphene	3	7.195	-0.017	216397	225.6	3	7.702	-0.011	221392	32.7
Toxaphene	4	7.494	0.028	48877	41.6	4	8.182	0.002	236057	50.4
Toxaphene	5	7.736	-0.009	4967	4.9	5	8.541	0.015	164647	78.8
Toxaphene	6	7.898	0.024	1155	1.7	NS	---	---	---	---
Total STX-CLPAve (6 peaks): 49.998					Total CLP2Ave (5 peaks): 42.319					RPD = 17
Corrected Ave (5 peaks): 14.884					Corrected Ave (4 peaks): 33.210					RPD = 76*

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A027.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A027.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 21:55
 Compound Sublist: INDA Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
2.999	-0.011	5436151	3.181	-0.010	26790623	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
4.130	-0.018	2126437	4.567	-0.018	11272174	20.9897	19.2871	8.5	alpha-BHC
4.493	-0.004	823221	4.996	-0.011	4135335	19.2232	17.4825	9.5	beta-BHC
4.657	-0.005	1714795	5.301	-0.014	7880180	20.9987	16.9970	21.1	delta-BHC
4.406	-0.018	1810419	4.917	-0.019	9302466	19.4510	17.6069	10.0	gamma-BHC (Lindane)
4.839	-0.023	1550169	5.374	-0.023	7872378	18.3693	16.2743	12.1	Heptachlor
5.124	-0.025	1707941	5.712	-0.023	8282783	19.8182	17.4133	12.9	Aldrin
5.697	-0.027	1558258	6.269	-0.024	6773075	18.7575	15.7957	17.1	Heptachlor epoxide b
6.073	-0.027	1518452	6.657	-0.024	5968920	19.7514	15.5017	24.1	Endosulfan I
6.295	-0.028	3104534	6.914	-0.025	12163932	39.0670	29.8623	26.7	Dieldrin
6.008	-0.020	2872506	6.725	-0.021	12011395	39.1498	30.9263	23.5	4,4'-DDE
6.512	-0.028	2493483	7.203	-0.025	8492376	38.9798	39.3899	1.0	Endrin
6.721	-0.025	2398806	7.394	-0.023	9290699	38.8334	43.1113	10.4	Endosulfan II
6.564	-0.020	2965774	7.263	-0.020	10507281	53.0965	51.6034	2.9	4,4'-DDD
7.485	-0.029	2073091	7.937	-0.023	6882295	39.8720	37.9795	4.9	Endosulfan sulfate
6.819	-0.023	1515196	7.550	-0.021	4115049	26.9790	21.2370	23.8	4,4'-DDT
7.249	-0.022	3457942	8.135	-0.024	10269395	125.9346	124.2224	1.4	Methoxychlor
7.738	-0.028	2402682	8.424	-0.025	6730964	39.5164	37.1847	6.1	Endrin ketone
7.096	-0.028	1929057	7.691	-0.024	6440311	38.7238	37.9614	2.0	Endrin aldehyde
5.819	-0.024	1578900	6.453	-0.023	6817031	19.1139	15.2396	22.6	gamma-Chlordane
5.942	-0.026	1468855	6.591	-0.024	6089924	18.4249	14.6017	23.2	alpha-Chlordane
2.196	-0.014	2390389	2.363	-0.014	9290318	19.4690	15.9722	19.7	Hexachlorobutadiene
3.994	-0.008	1801127	4.447	-0.011	12089929	20.3307	24.0391	16.7	Hexachlorobenzene
8.731	-0.015	4681680	10.075	-0.022	12496605	80.0000	80.0000	0.0	Hexabromobiphenyl
3.658	-0.012	2832139	3.995	-0.013	17874515	35.1601	38.3861	8.8	Tetrachloro-m-xylene
8.586	-0.025	2365851	9.537	-0.029	8955081	37.8125	46.6021	20.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	87.9	96.0	87.9~	115- 0
Decachlorobiphenyl	94.5	116.5	94.5~	115- 0

~ Indicates recovery outside QC Limits

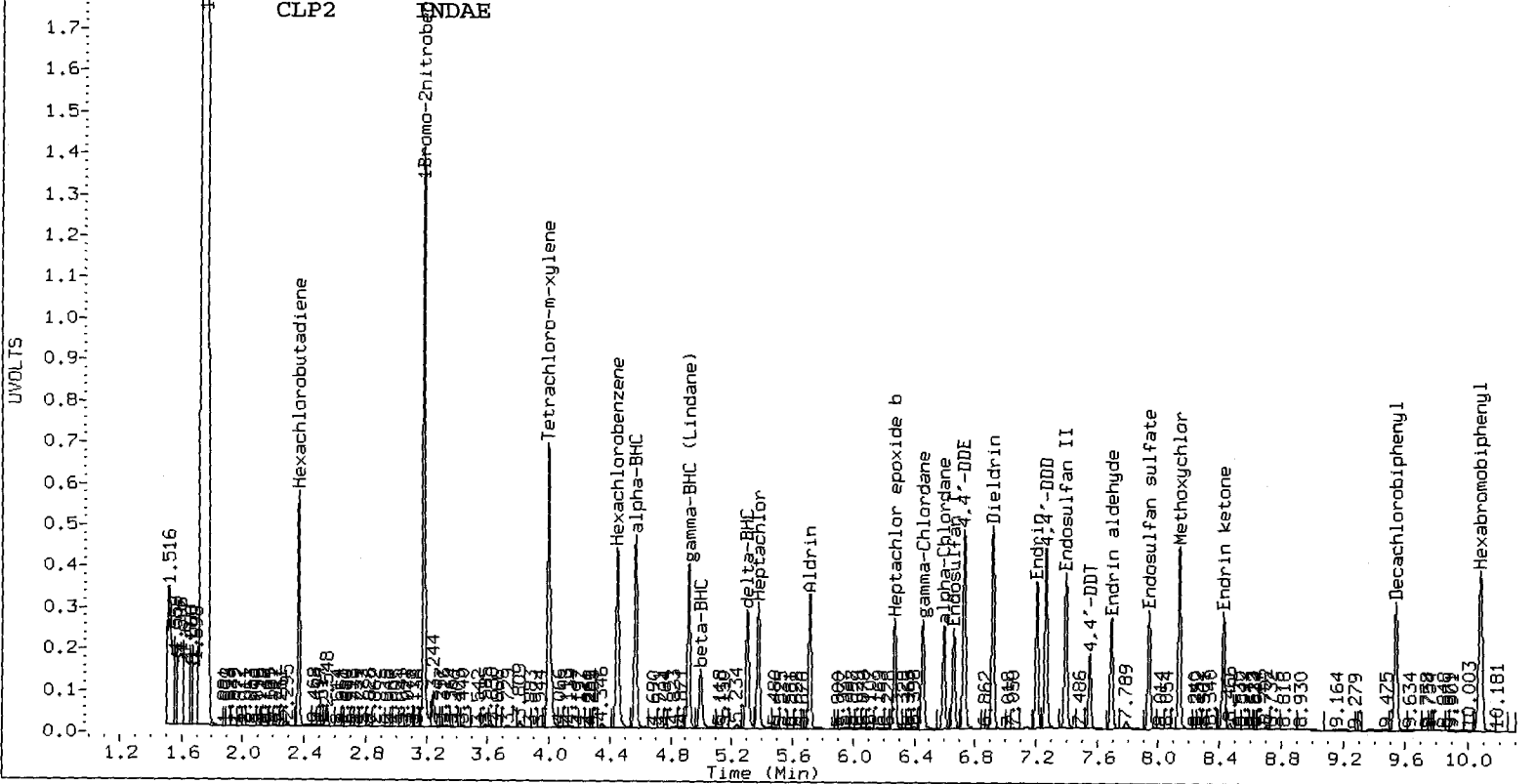
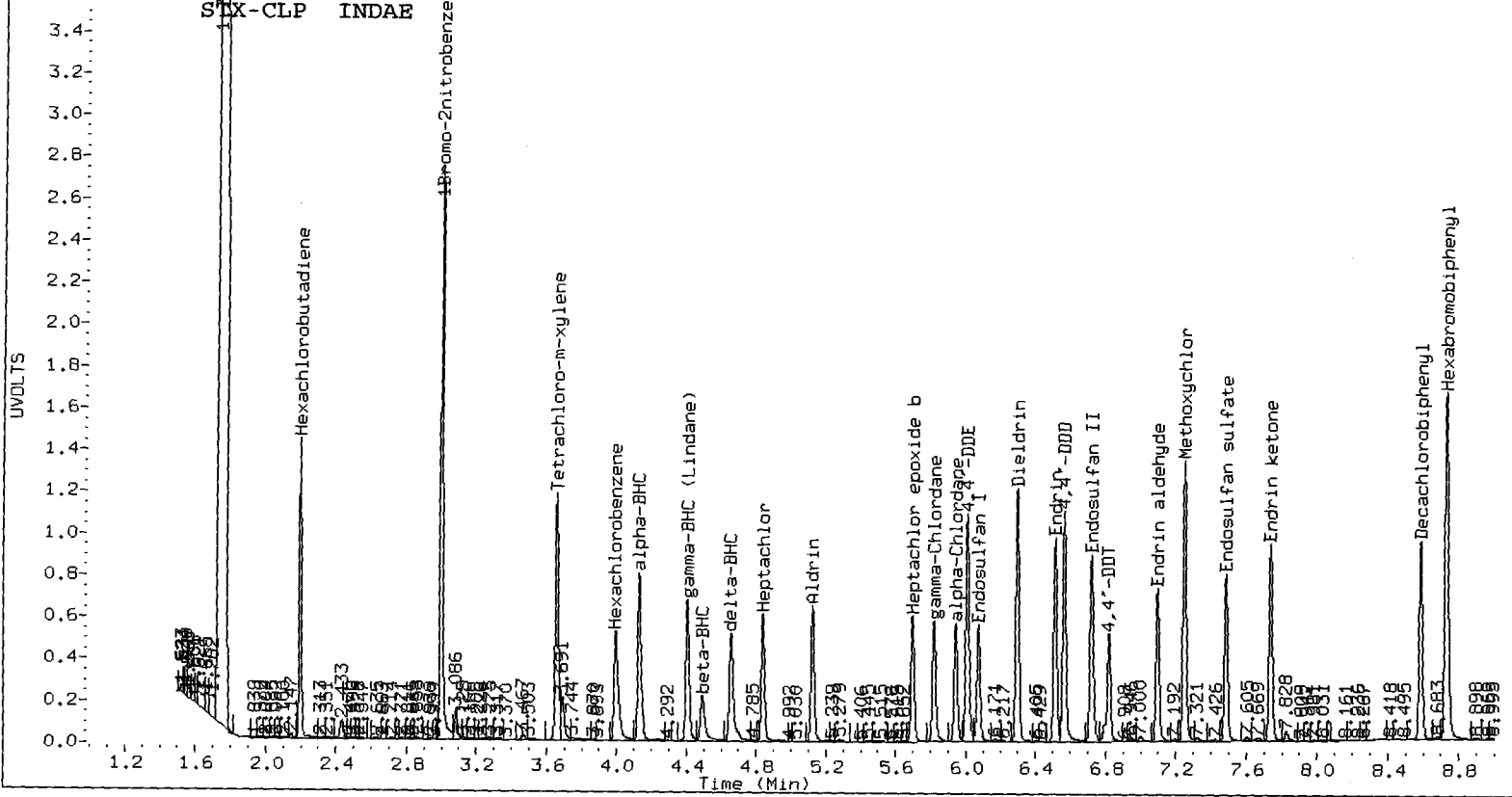
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	5436151	33.9
Hexabromobiphenyl	3748709	4681680	24.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	21032891	26790623	27.4
Hexabromobiphenyl	14864285	12496605	-15.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-OCT-2012
<- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20121003PEST.b/1130-1.b/1130A028.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20121003PEST.b/1130-2.b/1130A028.d Client ID:
 Method: /chem2/ecd6.i/20121003PEST.b/PEST1003.m Injection Date: 30-NOV-2012 22:13
 Compound Sublist: WND Report Date: 12/01/2012 11:47
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y2 12/01/12

STX-CLP Col			CLP2 Col			STX-CLP	CLP2	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
1.730	-0.008	53867	1.730	0.002	18348462	0.0000	0.0000	---	Hexachloroethane
2.999	-0.011	4619814	3.181	-0.010	23543252	80.0000	80.0000	0.0	1Bromo-2nitrobenzen
5.602	-0.025	2043775	6.180	-0.023	10232869	39.8259	34.0841	15.5	Oxychlorane
5.687	-0.016	1630084	6.434	-0.019	7876372	43.2174	36.2772	17.5	2,4-DDE
5.927	-0.024	2523196	6.539	-0.022	10951642	41.2825	44.5125	7.5	trans-Nonachlor
6.174	-0.016	1651899	6.921	-0.017	7500783	48.8887	56.5975	14.6	2,4-DDD
6.409	-0.020	1006657	7.208	-0.019	4179954	26.3189	28.9104	9.4	2,4-DDT
6.543	-0.024	2712862	7.265	-0.021	10802962	41.9032	41.9942	0.2	cis-Nonachlor
7.412	-0.025	1518869	8.410	-0.024	4773552	35.2454	33.5618	4.9	Mirex
8.733	-0.013	4127168	10.076	-0.021	11832818	80.0000	80.0000	0.0	Hexabromobiphenyl
3.659	-0.011	2088078	3.995	-0.012	14336018	30.5035	35.0336	13.8	Tetrachloro-m-xylene
8.586	-0.024	1806841	9.537	-0.029	7155749	32.7580	39.3273	18.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	76.3	87.6	76.3~	150- 0
Decachlorobiphenyl	81.9	98.3	81.9~	150- 0

~ Indicates recovery outside QC Limits

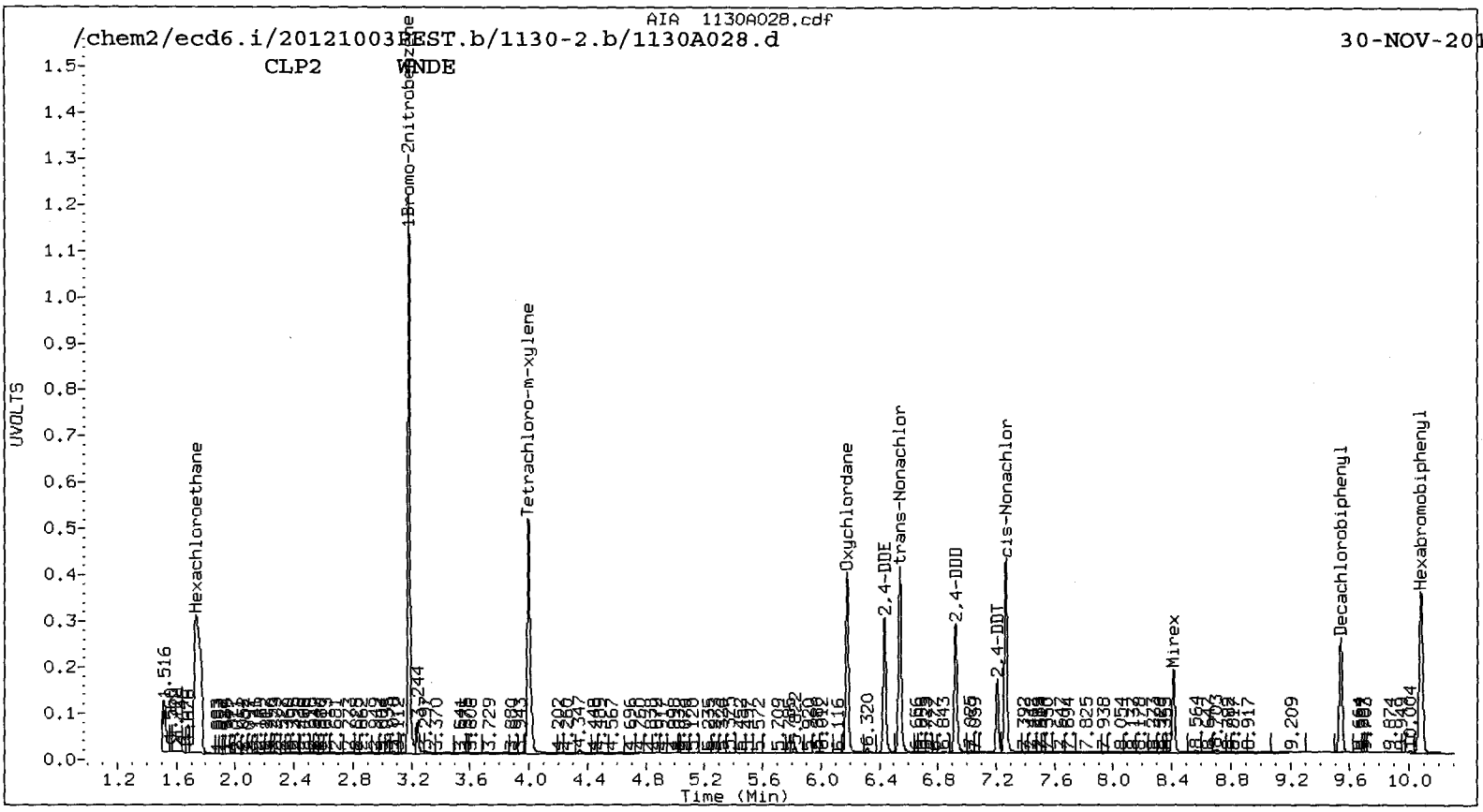
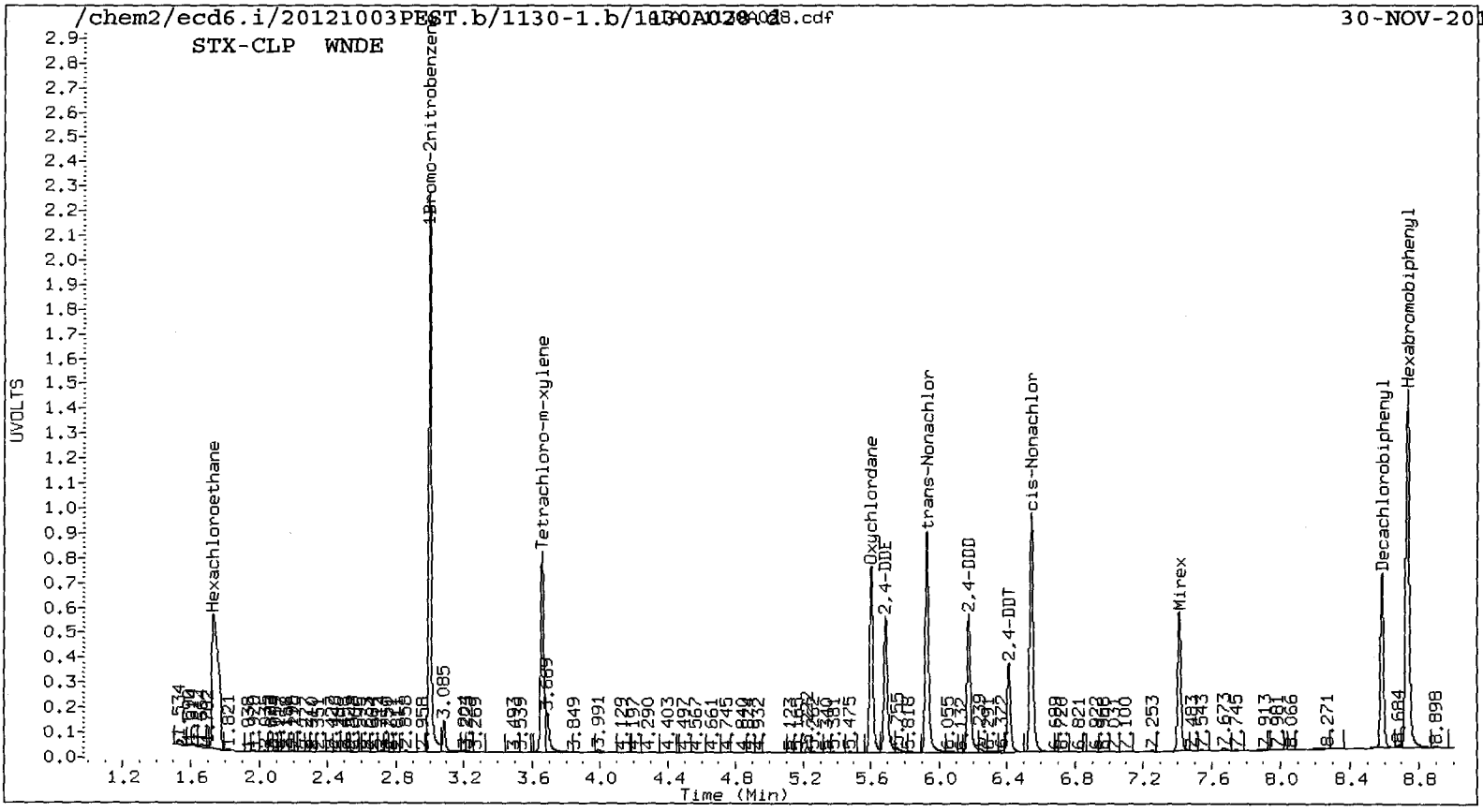
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	4060064	4619814	13.8
Hexabromobiphenyl	3748709	4127168	10.1

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	21032891	23543252	11.9
Hexabromobiphenyl	14864285	11832818	-20.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-OCT-2012
 <- Indicates standard response outside Limits (-50 to +100%)

Cpnd	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



**PCB Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: VR82



Preparation Test PCB PSDDA # 5 (PCBSDMP20)

PSDDA (20ppb)

ARI Job No(s) VR 58, VR 82

Page 1 of 2

Batch set up by: S

Botlle #	ARI Sample I.D.	Weight Extracted (eq. to 5.0g dry wt)	(REQ) Acid Clean (5mL)	(REQ) Sulfur Clean (5mL)	(Opt) Silica Gel Clean (1:5) Y/N	Extraction Final Volume	Volume to Lab	Comments	Verify Client ID
	MBS	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		N/A 11/16/12
	SBS	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		N/A 11/16/12
	SBSDup	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
	QLS	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
5	VR58 A	9.16	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		KD 100°C Exchange to Hexane (2 X 20mL)
5	B	26.06	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
5	C	17.15	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
5	D	21.04	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
5	E	21.09	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		TurboVap 123 Pre-Cleanups
5	F	11.20	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
5	G	7.22	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
4	H	7.23	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
4	I	11.07	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		TurboVap 123 Post Cleanups
4	J	7.24	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
4	Sms	7.17	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		
Analyst/Date		N/A 11/16/12	SA 11/23/12	SA 11/23/12		SA 11/23/12	WW 11/23/12		Analyst/Date

Standard Surrogate	Standard ID	Concentration	Volume	Expiration Date	Analyst	Witness
	N(2035-2)	2µg/mL	100µL	5/16/13	M	AC
	1(2012-2)	20µg/mL	125µL	8/28/13	M	AC
QLS Spike	5	2µg/mL	50µL			

Extraction Time: 12:45

Balance ID: B239298002

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3" inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in cold water 15 minutes. 7. Decant 1:1 Hex/Ace into E. flask with sodium sulfate in bottom+ funnel with neutral glasswool plug. 8. Rinse with Hexane. 9. Add 8:2 Hexane/Acetone to the vessel 3" inches above the soil layer after homogenization. Microwave a 2nd time. 10. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 11. KD (Small or Large Drying Column) on 100° bath. (Blanks=only 5g Sodium Sulfate). 12. Exchange (2 X with 20mL) Hexane. 13. TurboVap. 14. Clean-ups. 15. TurboVap (if Silica Clean). 16. Vial with Hexane.

A. Need Total Solids Y/N N B. Archive/Freeze Y/N Y



Preparation Test PCB PSDDA # 5 (PCBSDMP20)

ARI Job No(s) VR58 VR82

Page 2 of 2

PSDDA (20ppb)
Batch set up by: Sp

Bottle #	ARI Sample I.D.	Weight Extracted (eq. to 5.0g dry wt)	(REQ) Acid Clean (5mL)	(REQ) Sulfur Clean (5mL)	(Opt) Silica Gel Clean (1:5) Y/N	Extraction Final Volume	Volume to Lab	Comments	Verify Client ID
	MBS	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		NQ 11/16/12
	SBS	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		NQ 11/16/12
	SBSDup	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Analyst/Date
4	QLS <u>VR58 SWS 7.17</u>	5.00g	5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		KD 100°C
4	<u>VR82 A 19.20</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Exchange to Hexane (2 X 20mL)
4	<u>B 21.05</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Analyst/Date
4	<u>C 6.10</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
4	<u>D 15.20</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Analyst/Date
4	<u>E 18.19</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		TurboVap 123
4	<u>F 15.10</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Pre-Cleanups
4	<u>G 14.09</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Analyst/Date
4	<u>H 13.12</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		5P 11/23/12
4	<u>I 14.10</u>		5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		TurboVap 123
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Post Cleanups
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		Analyst/Date
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12
			5.0mL	5.0mL	1mL Y/N	5.0mL	1mL		11/23/12

Standard Surrogate	Standard ID	Concentration	Volume	Expiration Date	Analyst	Witness
	<u>N(2035-2)</u>	<u>2µg/mL</u>	<u>100µL</u>	<u>5/16/13</u>	<u>M</u>	<u>AC</u>
Spike	1 ()	20µg/mL	125µL			
<u>QLS Spike</u>	<u>5 ()</u>	<u>2µg/mL</u>	<u>50µL</u>			

Extraction Time: 12:05

Balance ID:

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3" inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in cold water 15 minutes. 7. Decant 1:1 Hex/Ace into E. flask with sodium sulfate in bottom+ funnel with neutral glasswool plug. 8. Rinse with Hexane. 9. Add 8:2 Hexane/Acetone to the vessel 3" inches above the soil layer after homogenization. Microwave a 2nd time. 10. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 11. KD (Small or Large Drying Column) on 100° bath. (Blanks=only 5g Sodium Sulfate). 12. Exchange (2 X with 20mL) Hexane. 13. TurboVap. 14. Clean-ups. 15. TurboVap (if Silica Clean). 16. Vial with Hexane.

A. Need Total Solids Y (N) B. Archive/Freeze Y (N)



ARI Job No.: VR 82

Client ID: Anchor QEA, LLC

Parameter: PSDDA PCB

Client Project: City of Keamere Sediment

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>ABCDEFGHI, I.</u>	ET 11/1/12
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>ABCDEFGHI, I.</u>	CT 11/9/12
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>Small rocks 10% c,</u>	ET 11/9/12
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
(Centrifuge#1 used for all Centrifugations)	

**PCB Raw Data
Initial Calibration**

ARI Job ID: VR82



GC Initial Calibration Notes

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) Other

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 11/02/12 Internal Standard ID 2006-1 Expiration 07/26/13

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? YES / NO
ICal Meets %RSD & r² Criteria YES / NO ICV Exceeding ±30%? YES / NO
Manual Integrations for ICal? YES / NO Linear Fits Used? YES / NO
Minimum Response S/N Met YES / NO Quadratic Fits Used? YES / NO
Calibration Points Dropped? YES / NO

Primary Source	Standard #	Expiration	Secondary Source	Standard #	Expiration
<u>AR1660</u>	<u>1980-1</u>	<u>05/16/13</u>	<u>AR1660</u>	<u>2009-2</u>	<u>05/16/13</u>
<u>AR1242</u>	<u>1980-6</u>		<u>AR1242</u>	<u>2009-5</u>	
<u>AR1248</u>	<u>1980-3</u>		<u>AR1248</u>	<u>2009-6</u>	
<u>AR2162</u>	<u>1980-2</u>		<u>AR1254</u>	<u>2009-7</u>	
<u>A3268</u>	<u>1980-4</u>		<u>AR3268</u>	<u>2009-4</u>	
<u>DDT</u>	<u>1991-2</u>	<u>01/21/13</u>	<u>AR2162</u>	<u>2009-3</u>	
<u>BD</u>	<u>1991-1</u>	<u>01/14/13</u>			
<u>IB</u>	<u>1982-2</u>	<u>05/16/13</u>			
<u>AR1254</u>	<u>1980-5</u>	<u>05/16/13</u>			

Detail problems, corrective actions and/or other pertinent information below:

I

Analyst: A Date: 11/07/12

Reviewer: MW Date: 11/7

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd5.i/20121102.B/PCB1.m
Batch File: /chem2/ecd5.i/20121102.B/fical-1.b
Inst ID: ecd5.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 1102A012 1102A013 1102A014 1102A015 1102A016 1102A017
INJ.DATE: 02-NOV-2012 02-NOV-2012 02-NOV-2012 02-NOV-2012 02-NOV-2012 02-NOV-2012
INJ.TIME: 20:37 21:18 21:38 21:58 22:18

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	2.274	2.277	2.275	2.275	2.274	2.273	2.274	2.174-2.374	2.275	0.001
\$ 1 Tetrachloro-m-xylene	4.444	4.444	4.444	4.444	4.443	4.444	4.444	4.344-4.544	4.444	0.001
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.717-4.917	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	6.093	5.993-6.193	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	6.094	5.994-6.194	+++++	+++++
7 Aroclor-1016	6.093	6.093	6.093	6.092	6.092	6.092	6.093	5.993-6.193	6.093	0.000
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	6.494	6.394-6.594	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	8.222	8.122-8.322	+++++	+++++
9 Aroclor-1260	9.995	9.996	9.995	9.995	9.995	9.995	9.995	9.895-10.095	9.995	0.000
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	9.996	9.896-10.096	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	11.203	11.103-11.303	+++++	+++++
\$ 13 Decachlorobiphenyl	12.855	12.855	12.854	12.855	12.854	12.855	12.855	12.755-12.955	12.854	0.001
* 12 IS-HBBP	13.214	13.214	13.214	13.214	13.214	13.214	13.214	13.114-13.314	13.214	0.000
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	8.188	8.138-8.238	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	8.737	8.687-8.787	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	9.261	9.211-9.311	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	8.620	8.520-8.720	+++++	+++++

Reviewer 1 _____ Date: 11/06/12
Reviewer 2 _____ Date: _____

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

Report Date : 07-Nov-2012 08:23

Page 2

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecds.i/20121102.B/PCB1.m
Batch File: /chem2/ecds.i/20121102.B/ical-1.b
Inst ID: ecd5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.242	9.142-9.342	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	9.704	9.604-9.804	+++++	+++++

VRB2 : 01405

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd5.i/20121102.B/PCB2.m
Batch File: /chem2/ecd5.i/20121102.B/ical-2.b
Inst ID: ecd5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNE	2.761	2.763	2.761	2.761	2.763	2.761	2.761	2.665-2.865	2.762	0.001
\$ 2 Tetrachloro-m-xylene	4.454	4.454	4.453	4.454	4.455	4.454	4.456	4.356-4.556	4.454	0.001
1 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	5.141	5.041-5.241	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	6.210	6.110-6.310	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	6.208	6.108-6.308	+++++	+++++
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	6.837	6.737-6.937	+++++	+++++
7 Aroclor-1016	6.208	6.209	6.208	6.208	6.209	6.209	6.209	6.109-6.309	6.209	0.000
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	8.341	8.241-8.441	+++++	+++++
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.302	10.202-10.402	+++++	+++++
9 Aroclor-1260	10.302	10.301	10.301	10.301	10.302	10.302	10.302	10.202-10.402	10.301	0.001
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	11.547	11.447-11.647	+++++	+++++
\$ 13 Decachlorobiphenyl	13.248	13.247	13.247	13.247	13.248	13.247	13.248	13.148-13.348	13.247	0.000
* 12 IS-HBBP	14.115	14.116	14.115	14.115	14.115	14.114	14.117	14.017-14.217	14.115	0.000
41 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	8.604	8.554-8.654	+++++	+++++
42 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.290	9.240-9.340	+++++	+++++
44 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	8.992	8.892-9.092	+++++	+++++
45 4,4-DDD/2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	9.753	9.653-9.853	+++++	+++++

Reviewer 1 _____ Date: 11/26/12
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd5.i/20121102.B/PCB2.m
Batch File: /chem2/ecd5.i/20121102.B/ical-2.b
Inst ID: ecd5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.192	10.092-10.292	+++++	+++++

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/ical-2.b

ARI Job No.: IB Method: PCB2.m Instrument: ecd5.i Date: 02-NOV-2012

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
2017	1102A011.d	IB		1	NO MANUAL INTEGRATION
2037	1102A012.d	0.25PPMAR1660		1	NO MANUAL INTEGRATION
2058	1102A013.d	0.02PPMAR1660		1	NO MANUAL INTEGRATION
2118	1102A014.d	0.05PPMAR1660		1	NO MANUAL INTEGRATION
2138	1102A015.d	1PPMAR1660		1	NO MANUAL INTEGRATION
2158	1102A016.d	0.1PPMAR1660		1	NO MANUAL INTEGRATION
2218	1102A017.d	0.5PPMAR1660		1	NO MANUAL INTEGRATION
2238	1102A018.d	AR1242		1	NO MANUAL INTEGRATION
2259	1102A019.d	AR1248		1	NO MANUAL INTEGRATION
2319	1102A020.d	AR1254		1	NO MANUAL INTEGRATION
2340	1102A021.d	AR2162		1	NO MANUAL INTEGRATION
0000	1102A022.d	AR3268		1	NO MANUAL INTEGRATION
0020	1102A023.d	AR1660ICV		1	NO MANUAL INTEGRATION
0041	1102A024.d	AR1242ICV		1	NO MANUAL INTEGRATION
0071	1102A025.d	AR1248ICV		1	NO MANUAL INTEGRATION
0131	1102A026.d	AR1254ICV		1	NO MANUAL INTEGRATION
0162	1102A027.d	AR2162ICV		1	NO MANUAL INTEGRATION
0202	1102A028.d	AR3268ICV		1	NO MANUAL INTEGRATION
2017	1102A011.d	IB		1	NO MANUAL INTEGRATION
2037	1102A012.d	0.25PPMAR1660		1	NO MANUAL INTEGRATION

2058 1102A013.d 0.02PPMARI660

1

NO MANUAL INTEGRATION

VR82 : 01439

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/ical-2.b

Time Filename LabID ClientID DF Manually Integrated Compounds

2118	1102A014.d	0.05PPMAR1660	1	1	NO MANUAL INTEGRATION
2138	1102A015.d	1PPMAR1660	1	1	NO MANUAL INTEGRATION
2158	1102A016.d	0.1PPMAR1660	1	1	NO MANUAL INTEGRATION
2218	1102A017.d	0.5PPMAR1660	1	1	NO MANUAL INTEGRATION
2238	1102A018.d	AR1242	1	1	NO MANUAL INTEGRATION
2259	1102A019.d	AR1248	1	1	NO MANUAL INTEGRATION
2319	1102A020.d	AR1254	1	1	NO MANUAL INTEGRATION
2340	1102A021.d	AR2162	1	1	NO MANUAL INTEGRATION
0000	1102A022.d	AR3268	1	1	NO MANUAL INTEGRATION
0020	1102A023.d	AR1660ICV	1	1	NO MANUAL INTEGRATION
0041	1102A024.d	AR1242ICV	1	1	NO MANUAL INTEGRATION
0101	1102A025.d	AR1248ICV	1	1	NO MANUAL INTEGRATION
0121	1102A026.d	AR1254ICV	1	1	NO MANUAL INTEGRATION
0142	1102A027.d	AR2162ICV	1	1	NO MANUAL INTEGRATION
0202	1102A028.d	AR3268ICV	1	1	NO MANUAL INTEGRATION

4702 01 FEB

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 jrains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20121102.B/ical-2.b/1102A013.d
 Level 2: /chem2/ecd5.i/20121102.B/ical-2.b/1102A014.d
 Level 3: /chem2/ecd5.i/20121102.B/ical-2.b/1102A016.d
 Level 4: /chem2/ecd5.i/20121102.B/ical-2.b/1102A012.d
 Level 5: /chem2/ecd5.i/20121102.B/ical-2.b/1102A017.d
 Level 6: /chem2/ecd5.i/20121102.B/ical-2.b/1102A015.d
 Level 7: /chem2/ecd5.i/20121102.B/ical-2.b/1102A022.d
 Level 8: /chem2/ecd5.i/20121102.B/ddt-2.b/1102A029.d

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
1 Aroclor-1221(1)	++++ 0.01355	++++ ++++	++++	++++	++++	++++	0.01355	0.000
(2)	++++ 0.00798	++++ ++++	++++	++++	++++	++++	0.00798	0.000
(3)	++++ 0.02510	++++ ++++	++++	++++	++++	++++	0.02510	0.000
(4)	++++ 0.00433	++++ ++++	++++	++++	++++	++++	0.00433	0.000
4 Aroclor-1232(1)	++++ 0.01985	++++ ++++	++++	++++	++++	++++	0.01985	0.000
(2)	++++ 0.03912	++++ ++++	++++	++++	++++	++++	0.03912	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(3)	++++ 0.01635	++++ ++++	++++	++++	++++	++++	0.01635	0.000
(4)	++++ 0.01389	++++ ++++	++++	++++	++++	++++	0.01389	0.000
3 Aroclor-1242 (1)	++++ 0.03416	++++ ++++	++++	++++	++++	++++	0.03416	0.000
(2)	++++ 0.07272	++++ ++++	++++	++++	++++	++++	0.07272	0.000
(3)	++++ 0.03022	++++ ++++	++++	++++	++++	++++	0.03022	0.000
(4)	++++ 0.02545	++++ ++++	++++	++++	++++	++++	0.02545	0.000
6 Aroclor-1248 (1)	++++ 0.04749	++++ ++++	++++	++++	++++	++++	0.04749	0.000
(2)	++++ 0.03939	++++ ++++	++++	++++	++++	++++	0.03939	0.000
(3)	++++ 0.04070	++++ ++++	++++	++++	++++	++++	0.04070	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	++++ 0.05034	++++ ++++	++++	++++	++++	++++	0.05034	0.000
7 Aroclor-1016 (1)	0.05414 ++++	0.04961 ++++	0.04814	0.04282	0.03901	0.03516	0.04481	15.835
(2)	0.11185 ++++	0.10248 ++++	0.10098	0.09159	0.08474	0.07727	0.09482	13.397
(3)	0.02767 ++++	0.02640 ++++	0.02633	0.02415	0.02257	0.02085	0.02466	10.572
(4)	0.03250 ++++	0.03030 ++++	0.02963	0.02678	0.02467	0.02255	0.02774	13.491
8 Aroclor-1254 (1)	++++ 0.03474	++++ ++++	++++	++++	++++	++++	0.03474	0.000
(2)	++++ 0.04387	++++ ++++	++++	++++	++++	++++	0.04387	0.000
(3)	++++ 0.03370	++++ ++++	++++	++++	++++	++++	0.03370	0.000
(4)	++++ 0.07393	++++ ++++	++++	++++	++++	++++	0.07393	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(5)	++++ 0.04454	++++ ++++	++++	++++	++++	++++	0.04454	0.000
10 Aroclor-1262 (1)	++++ 0.06977	++++ ++++	++++	++++	++++	++++	0.06977	0.000
(2)	++++ 0.06199	++++ ++++	++++	++++	++++	++++	0.06199	0.000
(3)	++++ 0.13603	++++ ++++	++++	++++	++++	++++	0.13603	0.000
(4)	++++ 0.05505	++++ ++++	++++	++++	++++	++++	0.05505	0.000
(5)	++++ 0.05291	++++ ++++	++++	++++	++++	++++	0.05291	0.000
9 Aroclor-1260 (1)	0.05095 ++++	0.04631 ++++	0.04553	0.04102	0.03791	0.03452	0.04271	14.120
(2)	0.06048 ++++	0.05750 ++++	0.05613	0.05086	0.04681	0.04271	0.05241	13.017
(3)	0.11796 ++++	0.11377 ++++	0.11113	0.10159	0.09448	0.08678	0.10428	11.617

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	0.03951	0.03322	0.03270	0.02987	0.02786	0.02539	0.03143	15.703
11 Aroclor-1268(1)	++++	++++	++++	++++	++++	++++	0.13895	0.000
(2)	0.13895	++++					0.13895	0.000
(3)	++++	++++	++++	++++	++++	++++	0.13513	0.000
(4)	0.13513	++++					0.13513	0.000
(3)	++++	++++	++++	++++	++++	++++	0.11296	0.000
(4)	0.11296	++++					0.11296	0.000
(4)	++++	++++	++++	++++	++++	++++	0.33487	0.000
41 2,4-DBE	0.33487	++++					0.33487	0.000
41 2,4-DBE	++++	698					698	0.000
42 2,4-DDD	++++	++++	++++	++++	++++	++++		
42 2,4-DDD	++++	651					651	0.000
44 4,4-DDE	++++	++++	++++	++++	++++	++++		
44 4,4-DDE	++++	1118					1118	0.000
45 4,4-DDD/2,4-DDT	++++	++++	++++	++++	++++	++++		
45 4,4-DDD/2,4-DDT	++++	844					844	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB2.m
 Cal Date : 07-Nov-2012 07:35 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	1043	0.000
\$ 2 Tetrachloro-m-xylene	1.19470	1.15056	1.18893	1.15884	1.10662	1.04277	1.14040	5.025
\$ 13 Decachlorobiphenyl	1.28874	1.18422	1.14387	1.04322	0.96994	0.89234	1.08706	13.451

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 j rains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20121102.B/ical-1.b/1102A013.d/1102A013.cdf
 Level 2: /chem2/ecd5.i/20121102.B/ical-1.b/1102A014.d/1102A014.cdf
 Level 3: /chem2/ecd5.i/20121102.B/ical-1.b/1102A016.d
 Level 4: /chem2/ecd5.i/20121102.B/ical-1.b/1102A012.d
 Level 5: /chem2/ecd5.i/20121102.B/ical-1.b/1102A017.d
 Level 6: /chem2/ecd5.i/20121102.B/ical-1.b/1102A015.d
 Level 7: /chem2/ecd5.i/20121102.B/ical-1.b/1102A022.d
 Level 8: /chem2/ecd5.i/20121102.B/dt-1.b/1102A029.d

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
2 Aroclor-1221 (1)	++++ 0.01953	++++ ++++	++++	++++	++++	++++	0.01953	0.000
(2)	++++ 0.01337	++++ ++++	++++	++++	++++	++++	0.01337	0.000
(3)	++++ 0.04356	++++ ++++	++++	++++	++++	++++	0.04356	0.000
3 Aroclor-1242 (1)	++++ 0.03480	++++ ++++	++++	++++	++++	++++	0.03480	0.000
(2)	++++ 0.10781	++++ ++++	++++	++++	++++	++++	0.10781	0.000
(3)	++++ 0.04681	++++ ++++	++++	++++	++++	++++	0.04681	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	++++	++++	++++	++++	++++	++++		
	0.05490	++++					0.05490	0.000
4 Aroclor-1232(1)	++++	++++	++++	++++	++++	++++		
	0.01822	++++					0.01822	0.000
(2)	++++	++++	++++	++++	++++	++++		
	0.05697	++++					0.05697	0.000
(3)	++++	++++	++++	++++	++++	++++		
	0.02485	++++					0.02485	0.000
(4)	++++	++++	++++	++++	++++	++++		
	0.03114	++++					0.03114	0.000
7 Aroclor-1016(1)	0.05261	0.04924	0.04799	0.04313	0.03985	0.03555		
	++++	++++					0.04473	14.270
(2)	0.16770	0.15454	0.15129	0.13340	0.12204	0.10734		
	++++	++++					0.13939	16.159
(3)	0.07176	0.06700	0.06517	0.05778	0.05274	0.04639		
	++++	++++					0.06014	15.892
(4)	0.05053	0.04712	0.04624	0.04170	0.03848	0.03405		
	++++	++++					0.04302	14.194

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						

6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.07048	+++++					0.07048	0.000

(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.07420	+++++					0.07420	0.000

(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.09369	+++++					0.09369	0.000

(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.07222	+++++					0.07222	0.000

8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.09552	+++++					0.09552	0.000

(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.06279	+++++					0.06279	0.000

(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.12204	+++++					0.12204	0.000

(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.13358	+++++					0.13358	0.000

(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.08400	+++++					0.08400	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
9 Aroclor-1260(1)	0.05365	0.04934	0.04789	0.04279	0.03879	++++	0.04649	12.461
	++++	++++					0.04649	12.461
(2)	0.05323	0.04942	0.04830	0.04331	0.03943	++++	0.04674	11.572
	++++	++++					0.04674	11.572
(3)	0.12980	0.11729	0.11408	0.10108	0.09182	++++	0.11081	13.300
	++++	++++					0.11081	13.300
(4)	0.07539	0.06654	0.06475	0.05812	0.05271	++++	0.06350	13.586
	++++	++++					0.06350	13.586
(5)	0.03455	0.03192	0.03171	0.02923	0.02687	++++	0.03086	9.459
	++++	++++					0.03086	9.459
10 Aroclor-1262(1)	++++	++++	++++	++++	++++	++++	0.06957	0.000
	0.06957	++++					0.06957	0.000
(2)	++++	++++	++++	++++	++++	++++	0.05282	0.000
	0.05282	++++					0.05282	0.000
(3)	++++	++++	++++	++++	++++	++++	0.13695	0.000
	0.13695	++++					0.13695	0.000
(4)	++++	++++	++++	++++	++++	++++	0.05159	0.000
	0.05159	++++					0.05159	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 jrains
 Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
(5)	++++ 0.05664	++++ ++++	++++	++++	++++	++++	0.05664	0.000
11 Aroclor-1268(1)	++++ 0.13880	++++ ++++	++++	++++	++++	++++	0.13880	0.000
(2)	++++ 0.13349	++++ ++++	++++	++++	++++	++++	0.13349	0.000
(3)	++++ 0.11731	++++ ++++	++++	++++	++++	++++	0.11731	0.000
(4)	++++ 0.33525	++++ ++++	++++	++++	++++	++++	0.33525	0.000
42 2,4-DB	++++ ++++	++++ 1061	++++	++++	++++	++++	1061	0.000
43 2,4-DDD	++++ ++++	++++ 991	++++	++++	++++	++++	991	0.000
44 2,4-DDT	++++ ++++	++++ ++++	++++	++++	++++	++++	++++	++++
46 4,4-DDE	++++ ++++	++++ 1666	++++	++++	++++	++++	1666	0.000

Analytical Resources, Inc.
 INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2012 20:37
 End Cal Date : 03-NOV-2012 02:22
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20121102.B/PCB1.m
 Cal Date : 07-Nov-2012 07:38 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	1112					1112	0.000
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	1436					1436	0.000
\$ 1 Tetrachloro-m-xylene	1.74629	1.73665	1.79189	1.68846	1.59898	1.46176		
	+++++	+++++					1.67067	7.275
\$ 13 Decachlorobiphenyl	1.44190	1.35420	1.32554	1.15683	1.03719	0.91644		
	+++++	+++++					1.20535	16.867

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A011.d
Data file 2: 20121102.B/ical-2.b/1102A011.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 02-NOV-2012 20:17
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.445	0.001 25150401	4.455	0.000 8210320	37.1	39.1	5.4	Tetrachloro-m-xylene
12.854	0.000 33469883	13.248	0.000 7776577	35.3	35.6	0.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	92.7	97.9
Decachlorobiphenyl	88.2	88.9

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32121330	2.8
Hexabromobiphenyl	64198300	65627042	2.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14713535	1.2
Hexabromobiphenyl	15789428	16088294	1.9

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.096	0.002	27540	1.6	1	---			0.0
Aroclor-1016	2	6.501	0.003	27993	0.5	2	---			0.0
Aroclor-1016	3	6.649	0.002	10551	0.5	3	---			0.0
Aroclor-1016	4	6.760	0.002	11272	0.7	4	---			0.0
Total CollAve (4 peaks):					0.8	Col2Ave: <3 Quant Peaks				

Aroclor-1221	1	---			0.0	1	5.157	0.016	104535	41.9
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	5.509	0.003	19616	4.2
Aroclor-1221	NS	---			----	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Aroclor-1260	1	9.996	0.000	29293	0.8	1	---			0.0
Aroclor-1260	2	10.315	0.004	28175	0.8	2	10.811	0.060	323645	30.7
Aroclor-1260	3	10.722	0.037	122110	1.5	3	11.025	-0.001	19440	0.9
Aroclor-1260	4	11.080	-0.004	113820	2.4	4	11.497	-0.051	21348	3.4
Aroclor-1260	5	11.273	-0.002	20829	0.9	NS	---			----
Total CollAve (5 peaks):					1.3	Total Col2Ave (3 peaks): 11.7 RPD = 161*				
Corrected Ave (4 peaks):					1.0	Corrected Ave: < 3 Peaks				

Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	10.811	0.059	323645	26.0
Aroclor-1262	3	---			0.0	3	11.025	0.000	19440	0.7
Aroclor-1262	4	---			0.0	4	11.497	-0.050	21348	1.9
Aroclor-1262	5	---			0.0	5	12.387	0.040	28688	2.7
CollAve: <3 Quant Peaks						Col2Ave: 7.8				

Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Total PCB Area Coll (4.544 - 12.755) = 8256578 Coll Total PCB = 0.0 ppm*

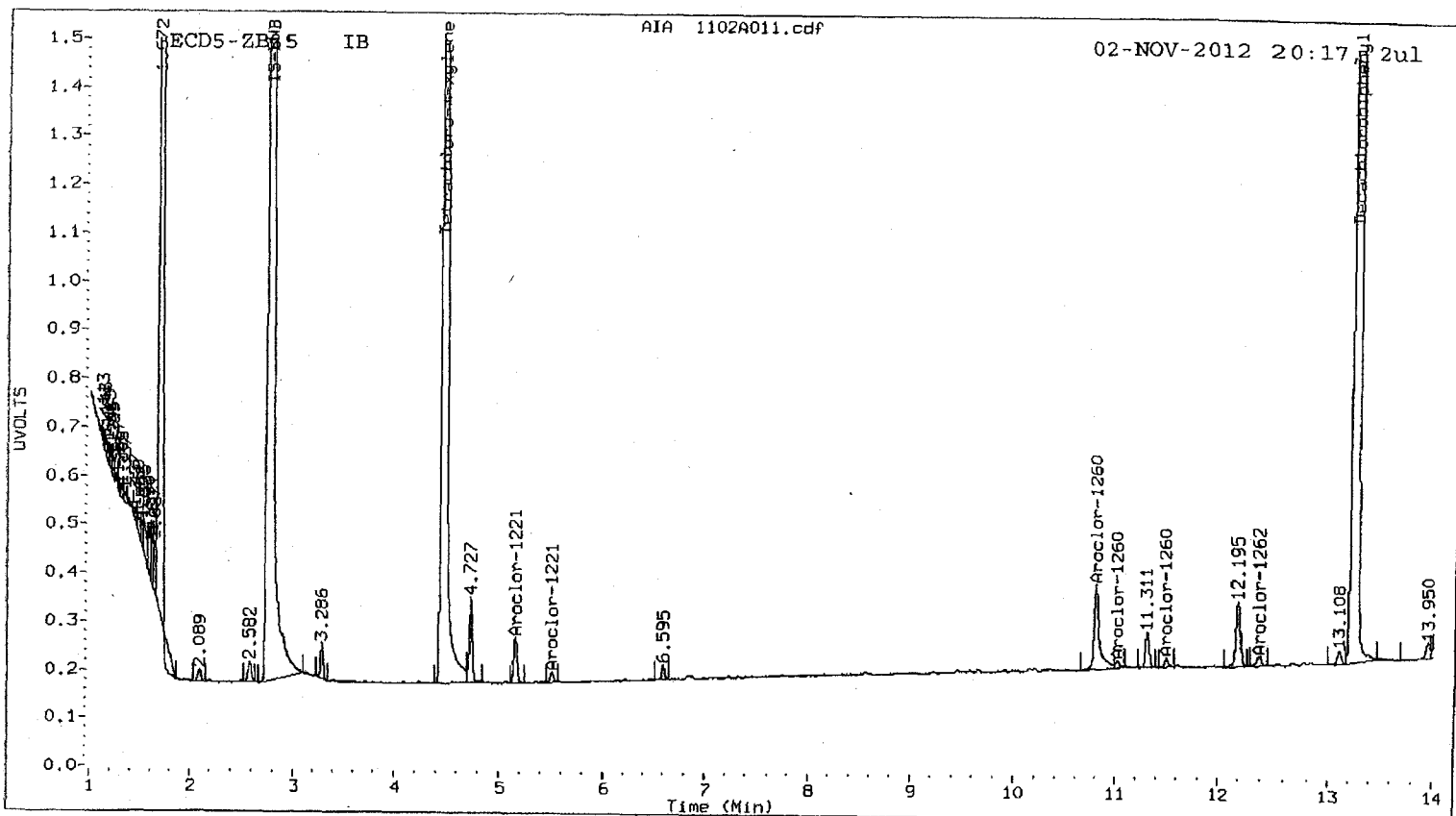
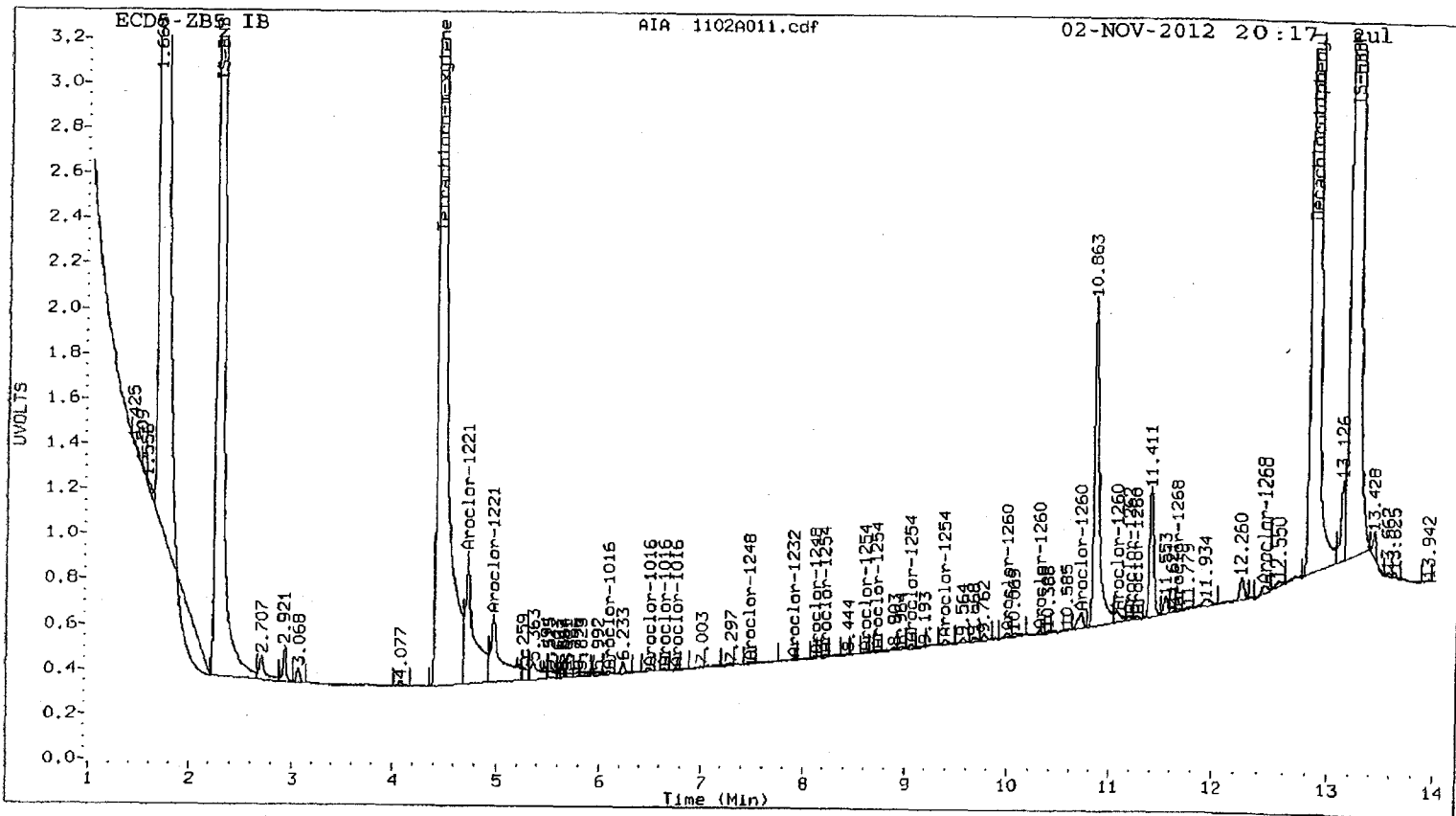
Total PCB Area Col2 (4.556 - 13.148) = 1026615

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82:01455



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A012.d
Data file 2: 20121102.B/ical-2.b/1102A012.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 20:37
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.444	0.000	13188927	4.454	-0.002	4211382	20.0	20.3	1.6	Tetrachloro-m-xylene
12.855	0.000	18566640	13.248	-0.001	4117975	20.0	19.2	4.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.0	50.8
Decachlorobiphenyl	50.0	48.0

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	31244918	0.0
Hexabromobiphenyl	64198300	64198300	0.0

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	14536489	0.0
Hexabromobiphenyl	15789428	15789428	0.0

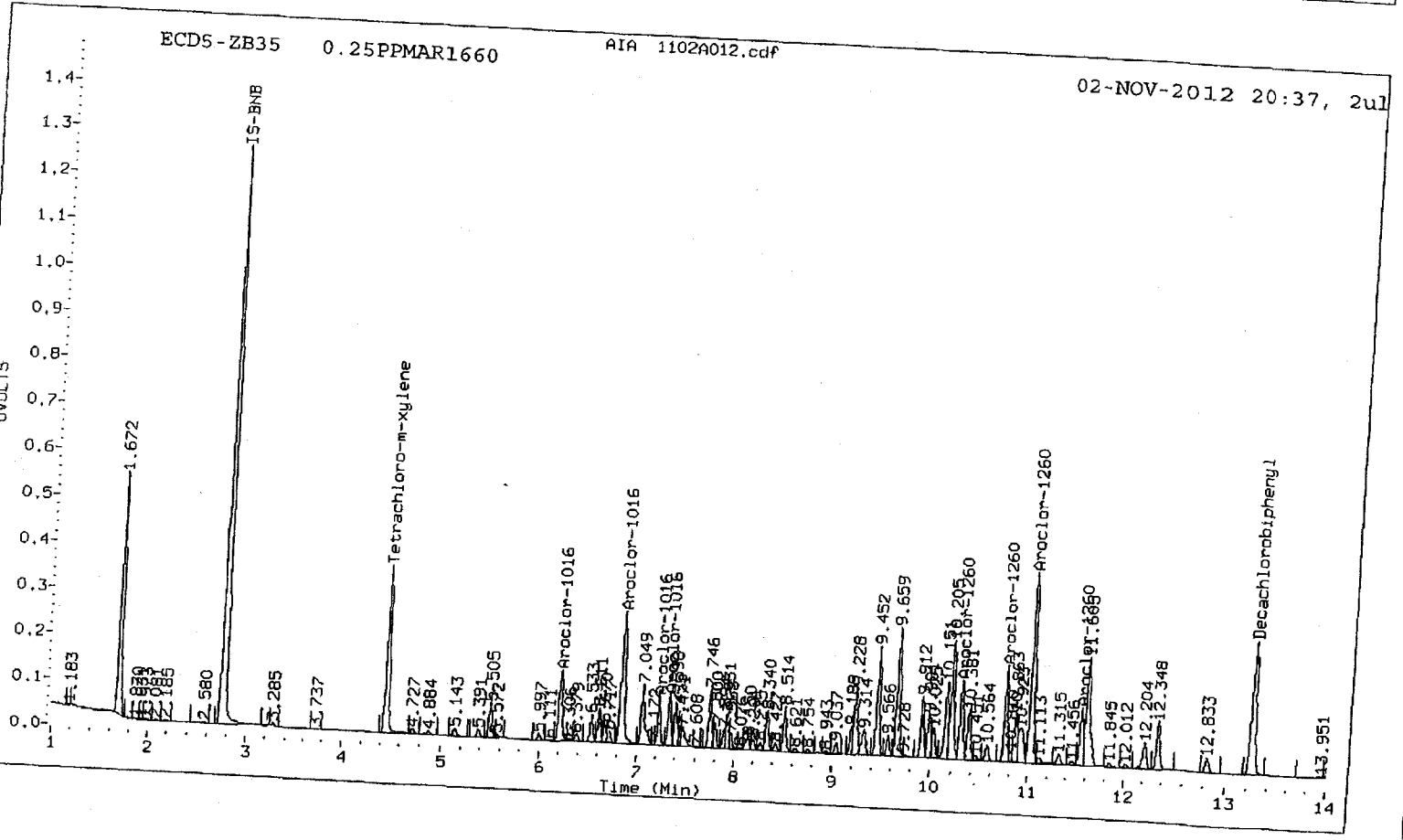
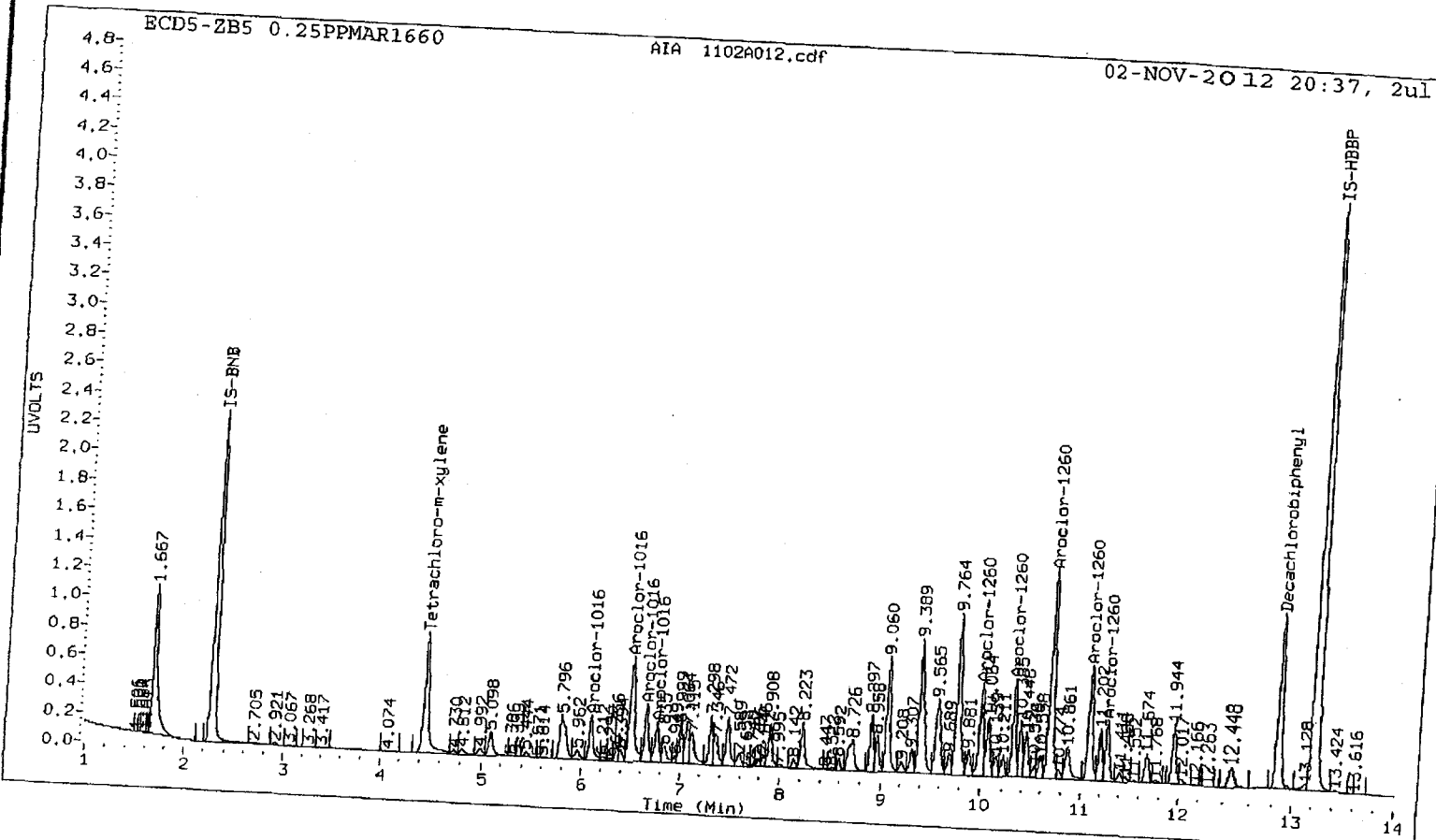
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

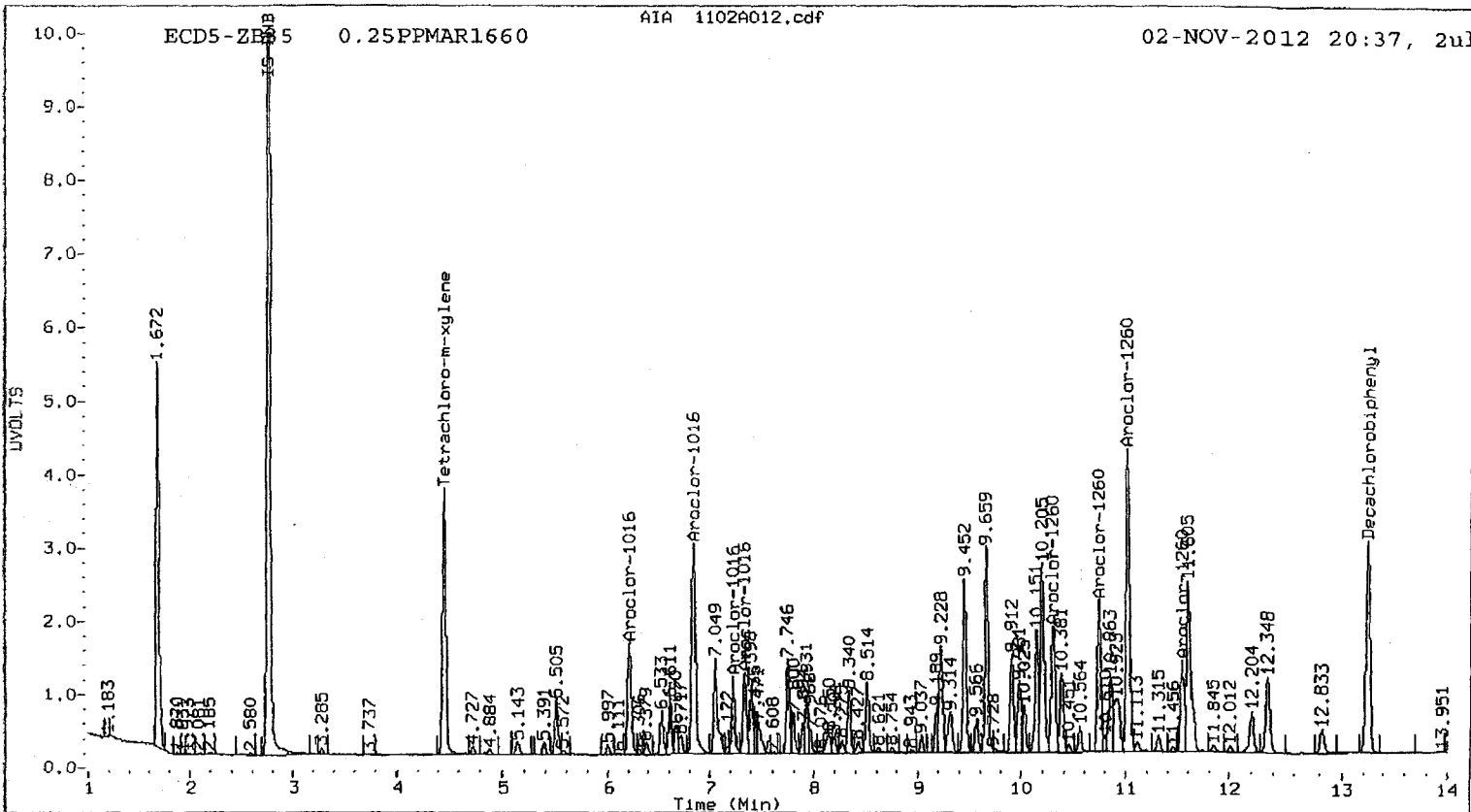
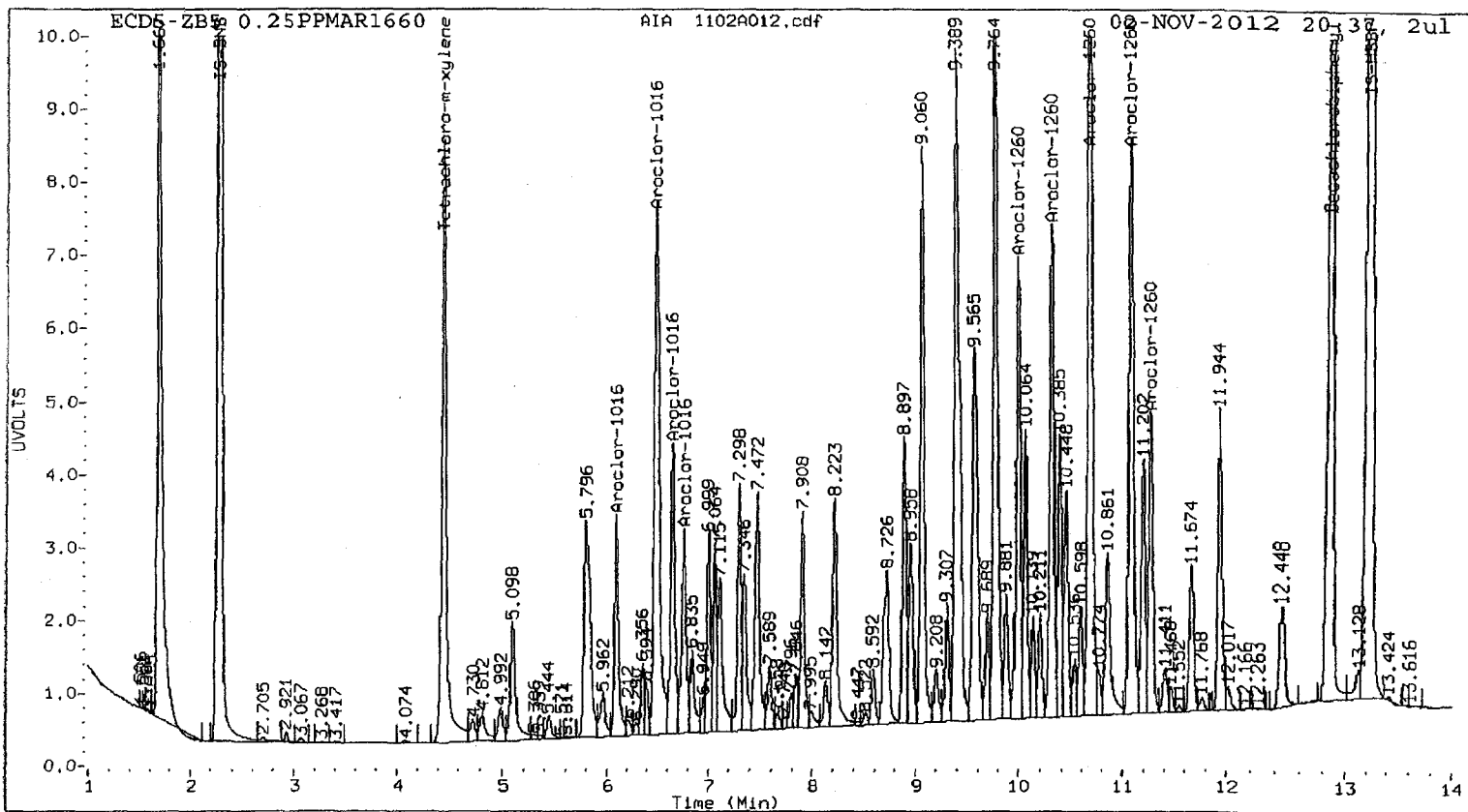
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.093	0.000	4211212	250.0	1	6.208	0.000	1945115	238.9
Aroclor-1016	2	6.497	-0.001	13025166	250.0	2	6.840	-0.001	4160448	241.5
Aroclor-1016	3	6.647	0.000	5641539	250.0	3	7.226	0.001	1097271	244.8
Aroclor-1016	4	6.758	0.000	4071261	250.0	4	7.334	0.000	1216560	241.4
Total Col1Ave (4 peaks):				250.0		Total Col2Ave (4 peaks):				241.6 RPD = 3
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				240.6 RPD = 4
Aroclor-1260	1	9.995	0.000	8584650	250.0	1	10.302	0.001	2023892	240.1
Aroclor-1260	2	10.312	0.001	8689092	250.0	2	10.751	-0.001	2509338	242.6
Aroclor-1260	3	10.686	0.000	20277766	250.0	3	11.026	0.000	5012746	243.5
Aroclor-1260	4	11.085	0.001	11660581	250.0	4	11.547	0.000	1473650	237.6
Aroclor-1260	5	11.275	0.000	5863610	250.0	NS	---			
Total Col1Ave (5 peaks):				250.0		Total Col2Ave (4 peaks):				241.0 RPD = 4
Corrected Ave (4 peaks):				250.0		Corrected Ave (3 peaks):				240.1 RPD = 4

Total PCB Area Col1 (4.544 - 12.755) = 252981101 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 63430307 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A013.d
Data file 2: 20121102.B/ical-2.b/1102A013.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 20:58
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.444	0.000	1108412	4.454	-0.002	350346	1.7	1.7	0.2	Tetrachloro-m-xylene
12.855	0.000	1903673	13.247	-0.001	417446	1.9	1.9	0.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	4.2	4.2
Decachlorobiphenyl	4.8	4.7

11/20/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	31736267	1.6
Hexabromobiphenyl	64198300	66012881	2.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14662512	0.9
Hexabromobiphenyl	15789428	16195930	2.6

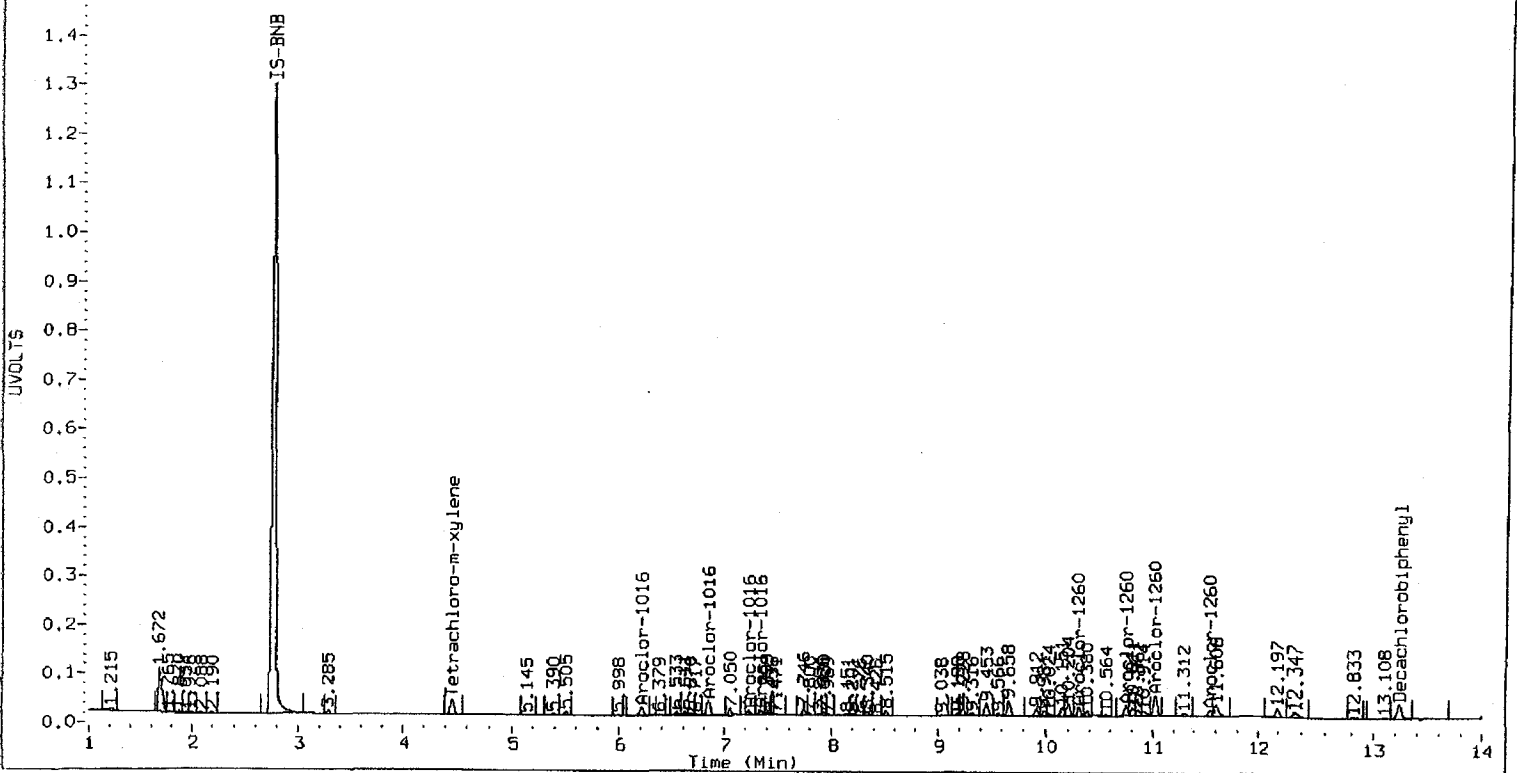
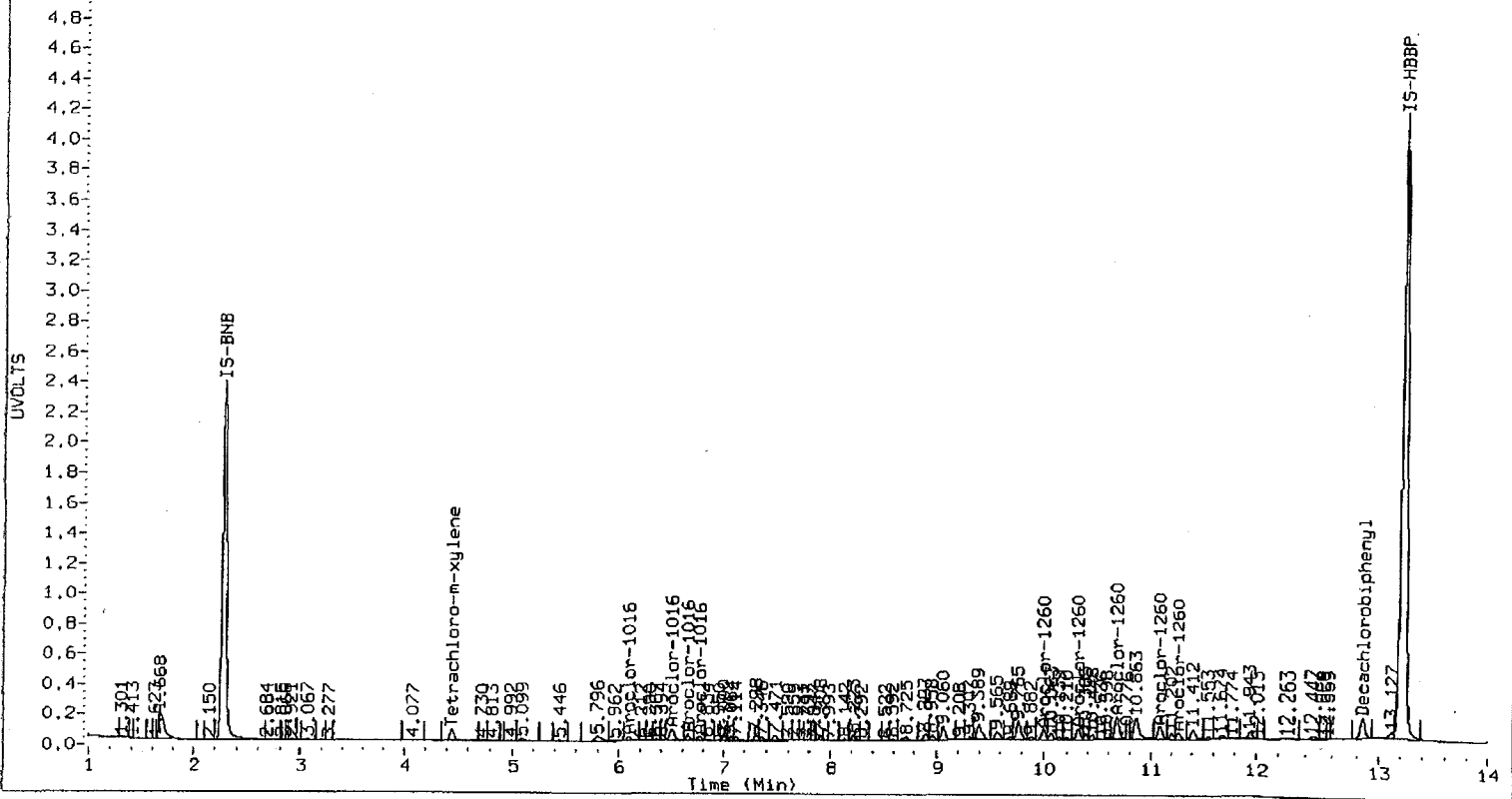
- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

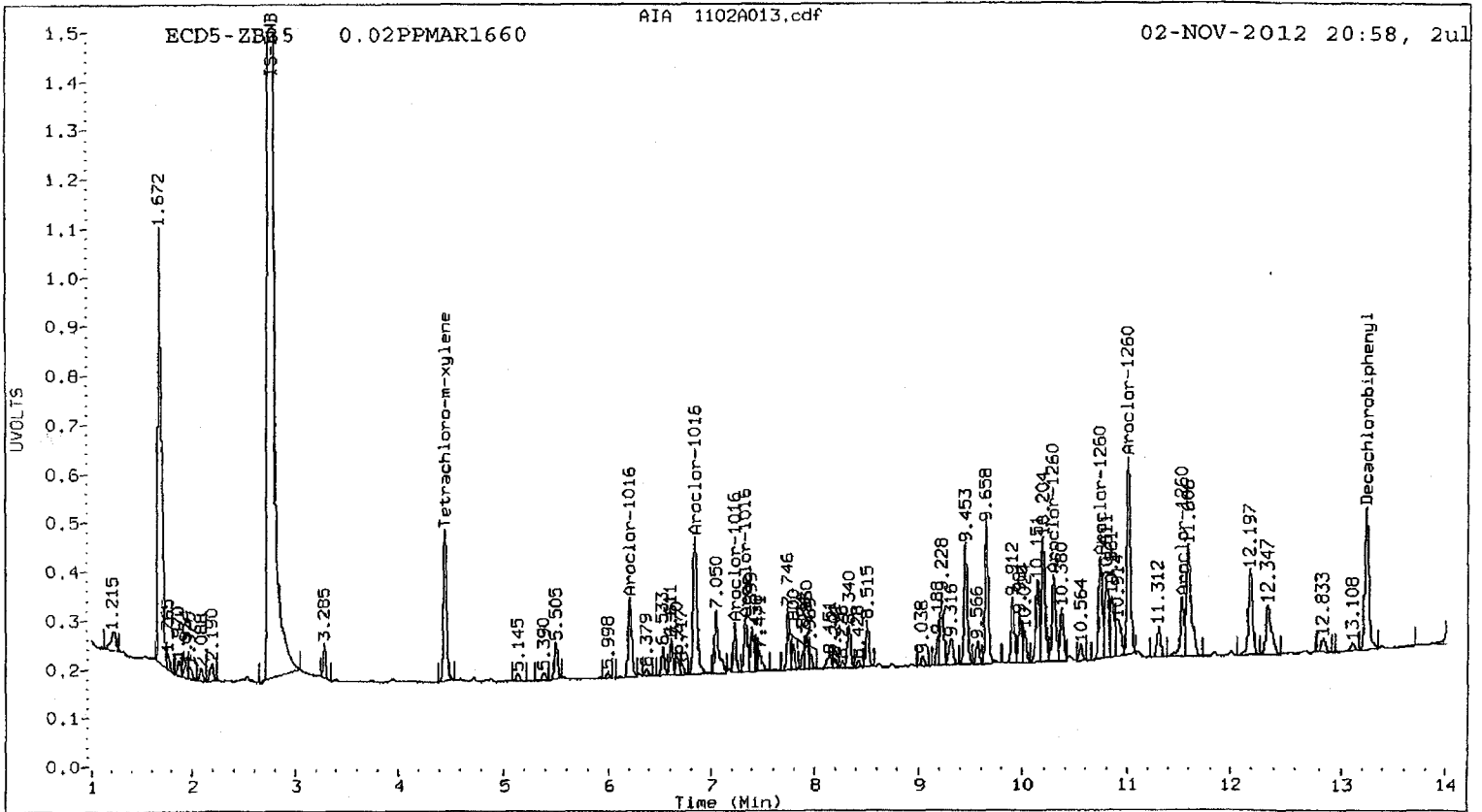
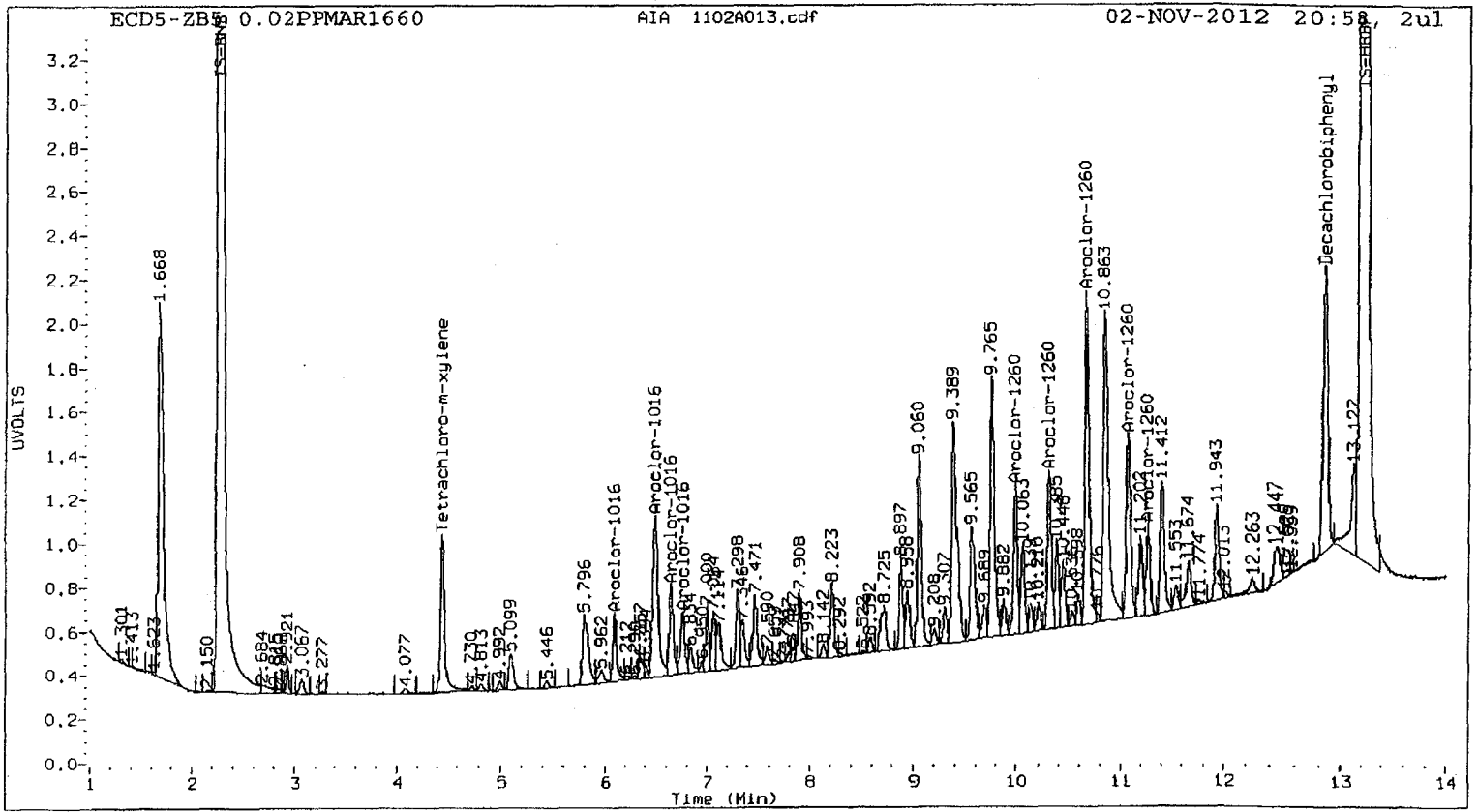
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.093	0.000	417384	23.5	1	6.209	0.000	198448	24.2
Aroclor-1016	2	6.498	0.000	1330508	24.1	2	6.840	0.000	410009	23.6
Aroclor-1016	3	6.647	0.000	569344	23.9	3	7.226	0.001	101420	22.4
Aroclor-1016	4	6.758	0.000	400893	23.5	4	7.334	0.000	119148	23.4
Total CollAve (4 peaks):				23.7		Total Col2Ave (4 peaks):				23.4 RPD = 1
Corrected Ave (3 peaks):				23.6		Corrected Ave (3 peaks):				23.2 RPD = 2
Aroclor-1260	1	9.996	0.000	885381	23.1	1	10.301	-0.001	206311	23.9
Aroclor-1260	2	10.311	0.000	878506	22.8	2	10.752	0.000	244878	23.1
Aroclor-1260	3	10.685	0.000	2142145	23.4	3	11.025	-0.001	477633	22.6
Aroclor-1260	4	11.085	0.000	1244258	23.7	4	11.547	-0.001	159986	25.1
Aroclor-1260	5	11.275	0.000	570228	22.4	NS	---			---
Total CollAve (5 peaks):				23.1		Total Col2Ave (4 peaks):				23.7 RPD = 3
Corrected Ave (4 peaks):				22.9		Corrected Ave (3 peaks):				23.2 RPD = 1

Total PCB Area Coll (4.544 - 12.755) = 28512374 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 6518944 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A014.d
Data file 2: 20121102.B/ical-2.b/1102A014.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 21:18
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.444	-0.001 2698672	4.453 -0.002 829889	4.453	4.2	4.0	3.0	Tetrachloro-m-xylene
12.854	-0.001 4379836	13.247 -0.001 935814	13.247	4.5	4.4	3.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	10.4	10.1
Decachlorobiphenyl	11.2	10.9

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	31079093	-0.5
Hexabromobiphenyl	64198300	64685135	0.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14425871	-0.8
Hexabromobiphenyl	15789428	15804667	0.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.093	-0.001	956493	55.0	1	6.208	0.000	447300	55.4
Aroclor-1016	2	6.497	-0.001	3001931	55.4	2	6.840	-0.001	924001	54.0
Aroclor-1016	3	6.647	0.000	1301472	55.7	3	7.225	0.000	238070	53.5
Aroclor-1016	4	6.757	-0.001	915266	54.8	4	7.334	0.000	273158	54.6
Total CollAve (4 peaks):				55.2		Total Col2Ave (4 peaks):				54.4 RPD = 2
Corrected Ave (3 peaks):				55.1		Corrected Ave (3 peaks):				54.1 RPD = 2
Aroclor-1260	1	9.995	-0.001	1994646	53.1	1	10.301	-0.001	457444	54.2
Aroclor-1260	2	10.311	0.000	1997918	52.9	2	10.751	-0.001	567951	54.8
Aroclor-1260	3	10.685	0.000	4742000	52.9	3	11.025	0.000	1123794	54.5
Aroclor-1260	4	11.085	0.000	2690276	52.4	4	11.547	0.000	328134	52.9
Aroclor-1260	5	11.275	-0.001	1290626	51.7	NS	---	---	---	---
Total CollAve (5 peaks):				52.6		Total Col2Ave (4 peaks):				54.1 RPD = 3
Corrected Ave (4 peaks):				52.5		Corrected Ave (3 peaks):				53.9 RPD = 3

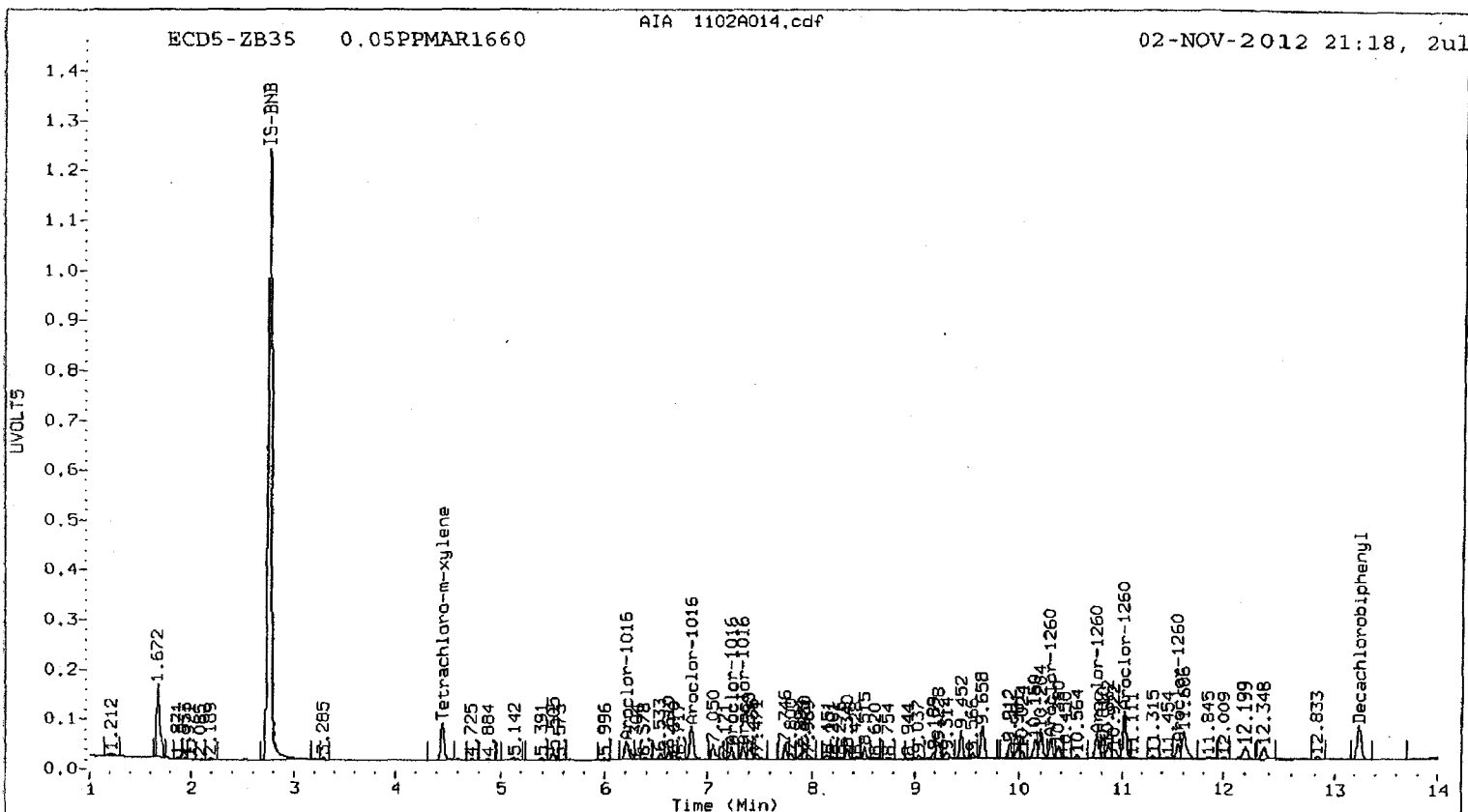
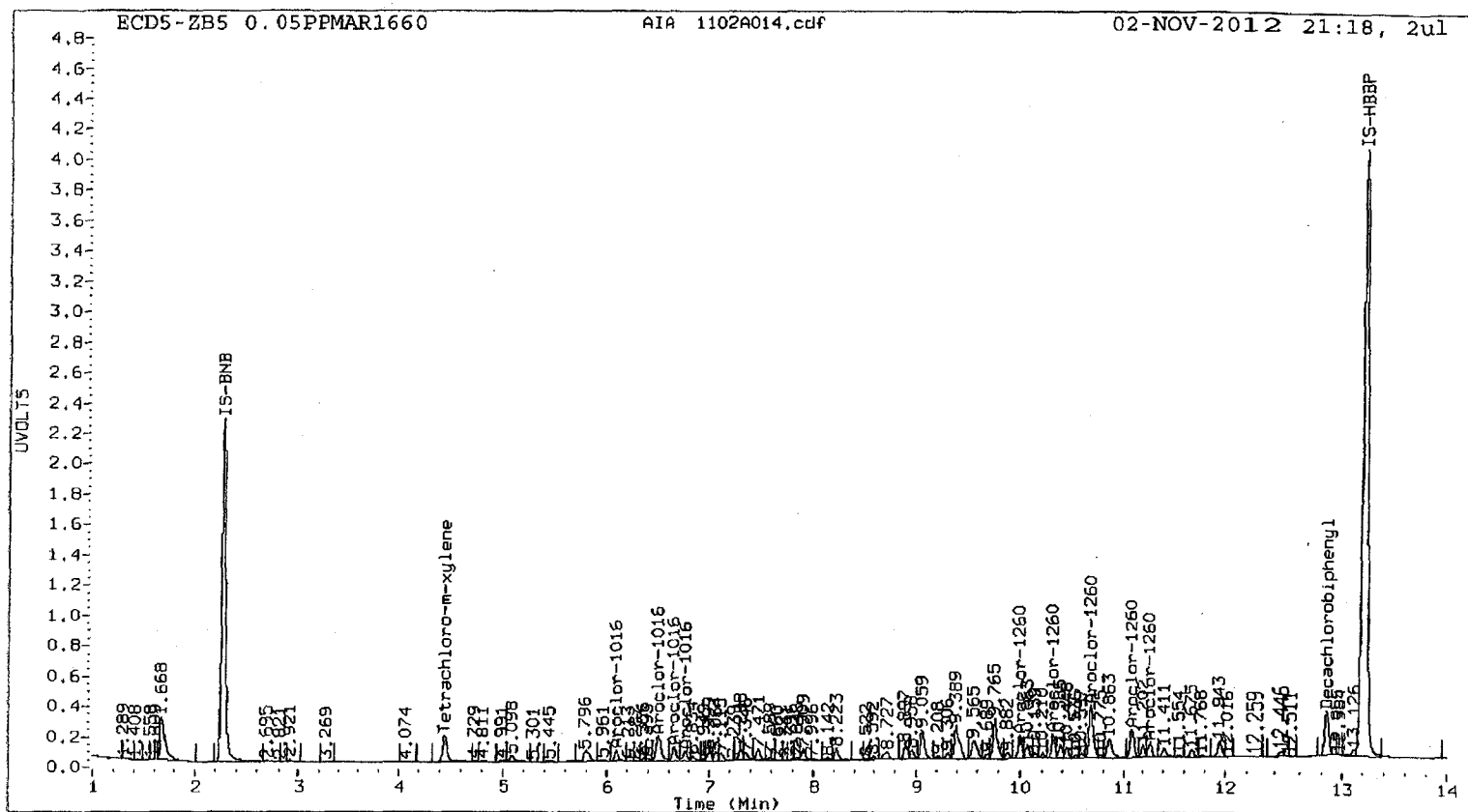
Total PCB Area Col1 (4.544 - 12.755) = 59007535

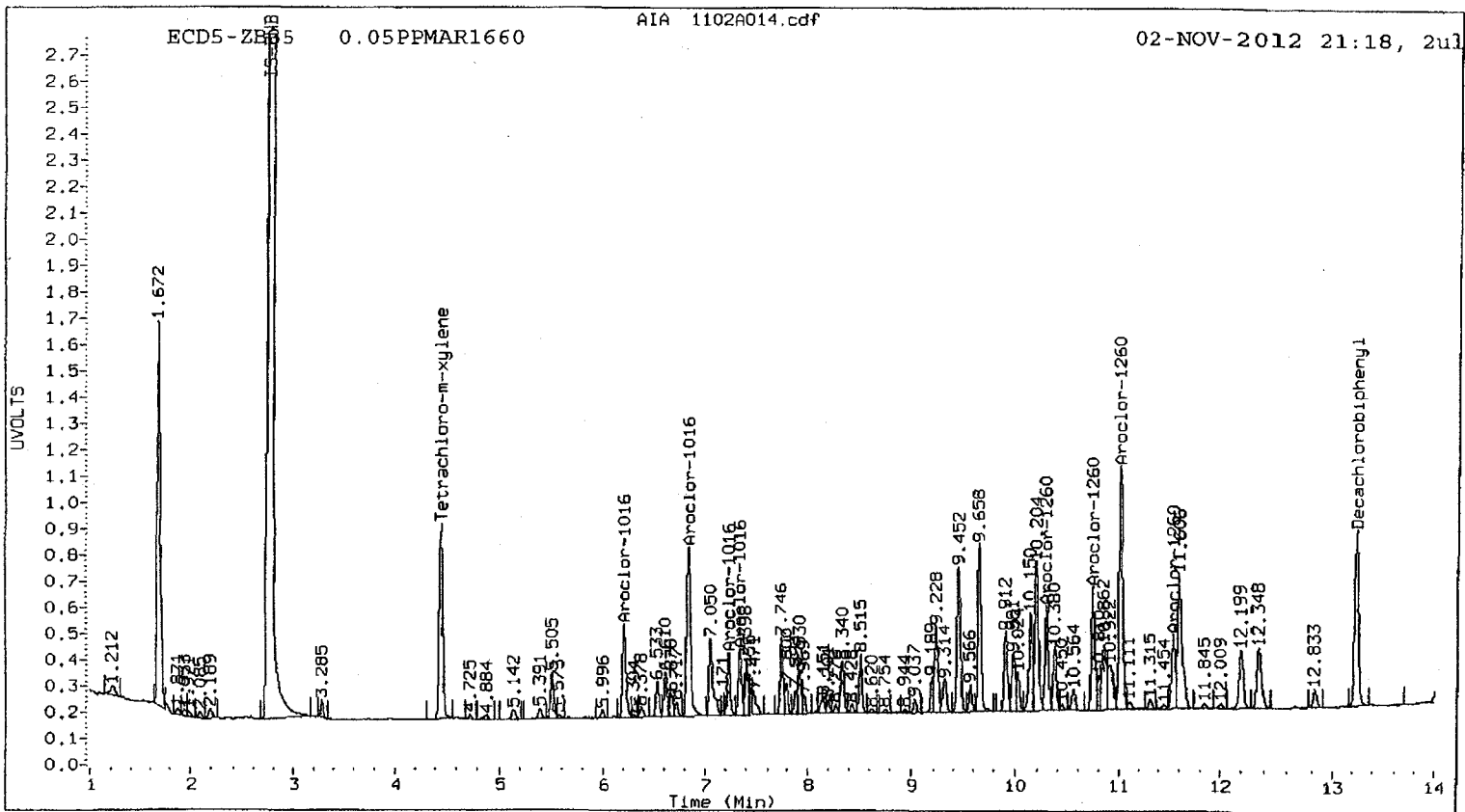
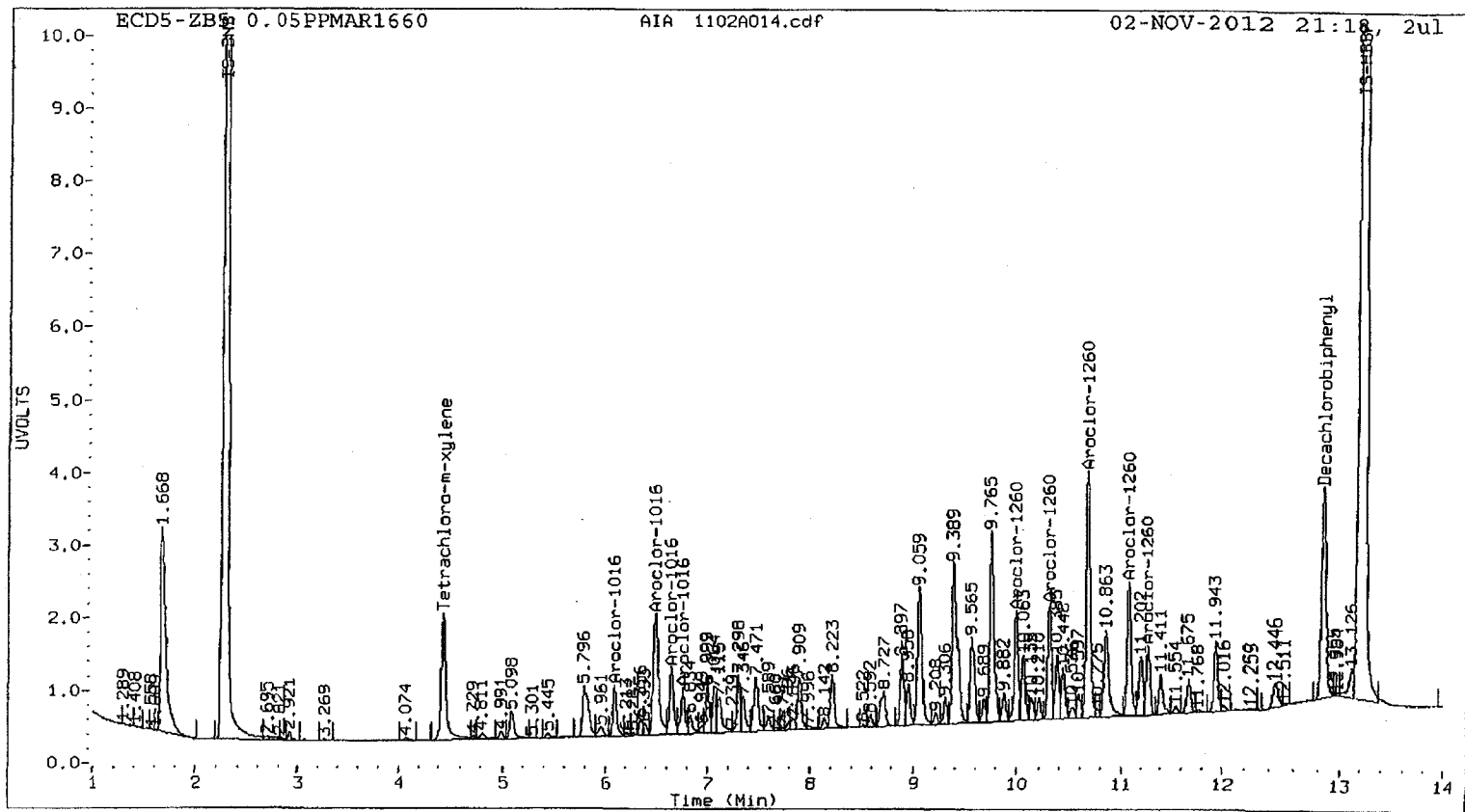
Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 14341578

Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A015.d
Data file 2: 20121102.B/ical-2.b/1102A015.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 1PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 21:38
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.445	0.000	47595978	4.454	-0.002	15296268	70.5	73.2	3.7	Tetrachloro-m-xylene
12.855	0.001	61828474	13.247	-0.001	14509436	57.8	65.7	12.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	176.3	182.9
Decachlorobiphenyl	144.6	164.2

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32560778	4.2
Hexabromobiphenyl	64198300	67466235	5.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14668819	0.9
Hexabromobiphenyl	15789428	16259905	3.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

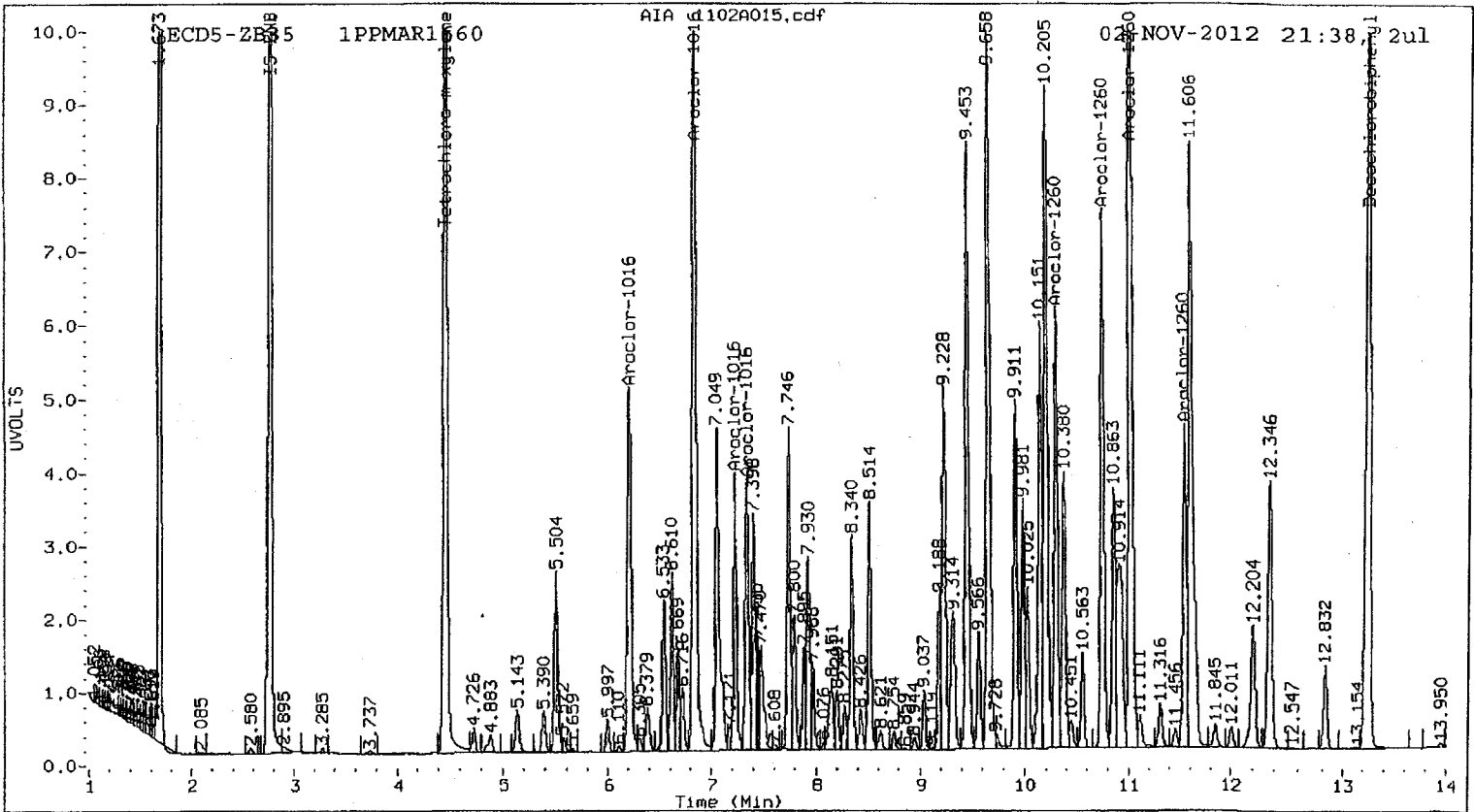
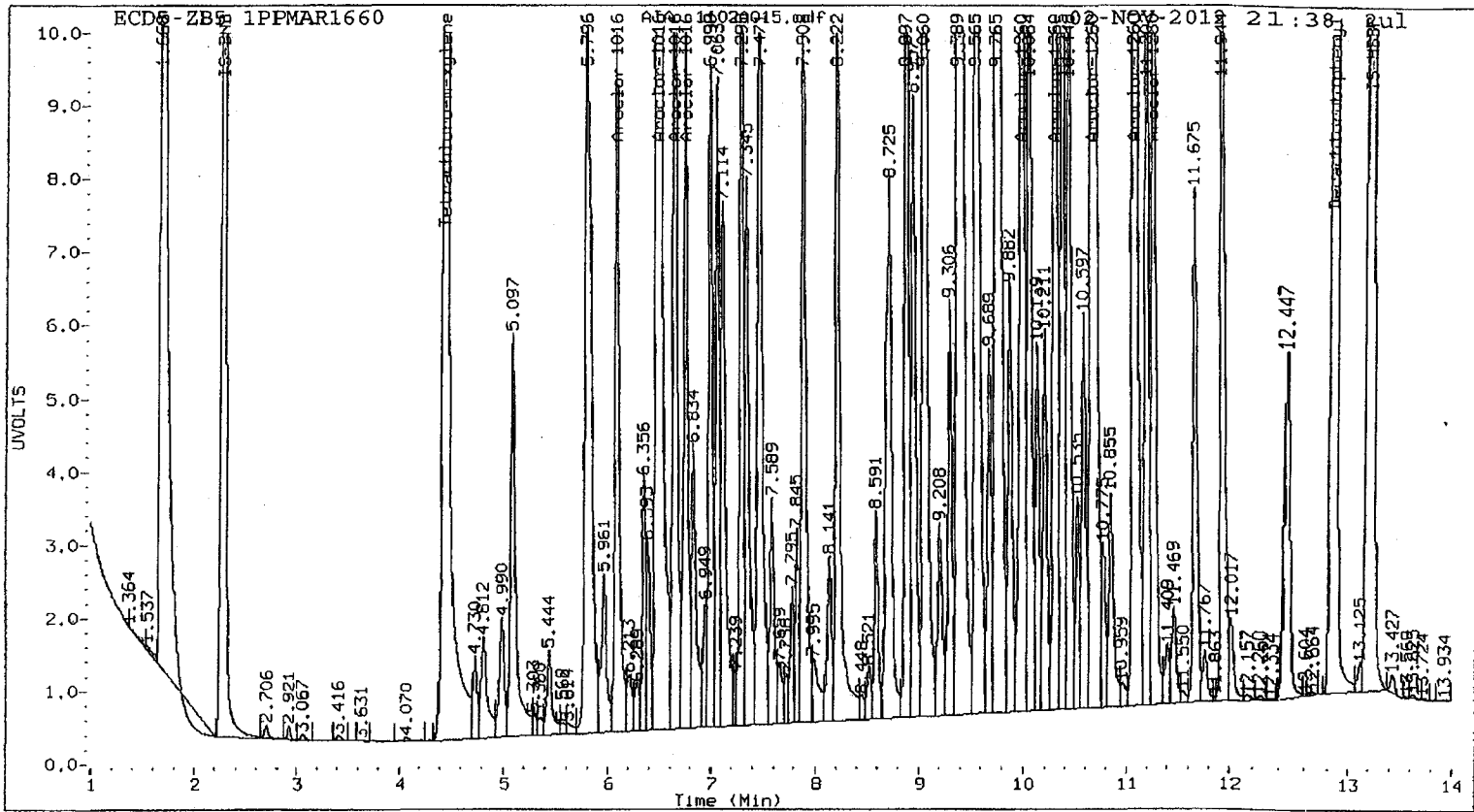
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.092	-0.001	14468062	787.6	1	6.208	0.000	6447286	784.6
Aroclor-1016	2	6.497	-0.001	43689731	762.7	2	6.840	-0.001	14167692	814.9
Aroclor-1016	3	6.646	-0.001	18882070	763.9	3	7.225	0.000	3823581	845.4
Aroclor-1016	4	6.757	-0.001	13858164	785.5	4	7.334	0.000	4135428	813.0
Total Col1Ave (4 peaks):				774.9		Total Col2Ave (4 peaks):				814.5 RPD = 5
Corrected Ave (3 peaks):				770.7		Corrected Ave (3 peaks):				804.2 RPD = 4

Aroclor-1260	1	9.995	0.000	29097548	708.2	1	10.301	0.000	7017005	808.4
Aroclor-1260	2	10.312	0.001	29615112	719.9	2	10.751	-0.001	8680312	814.8
Aroclor-1260	3	10.686	0.000	69214613	705.3	3	11.025	-0.001	17637268	832.1
Aroclor-1260	4	11.085	0.000	39737436	704.7	4	11.546	-0.001	5161043	808.0
Aroclor-1260	5	11.275	-0.001	20556577	762.1	NS	---			----
Total Col1Ave (5 peaks):				720.0		Total Col2Ave (4 peaks):				815.8 RPD = 12
Corrected Ave (4 peaks):				709.5		Corrected Ave (3 peaks):				810.4 RPD = 13

Total PCB Area Col1 (4.544 - 12.755) = 866088203 Col1 Total PCB = 1.6 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 219154507 Col2 Total PCB = 1.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A016.d
Data file 2: 20121102.B/ical-2.b/1102A016.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 21:58
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.443	-0.002	5655629	4.455	0.000	1730158	8.5	8.3	2.0	Tetrachloro-m-xylene
12.854	-0.001	8756996	13.248	0.000	1827328	8.3	8.4	1.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	21.3	20.9
Decachlorobiphenyl	20.7	21.0

A 11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	31562437	1.0
Hexabromobiphenyl	64198300	66063497	2.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14552241	0.1
Hexabromobiphenyl	15789428	15974909	1.2

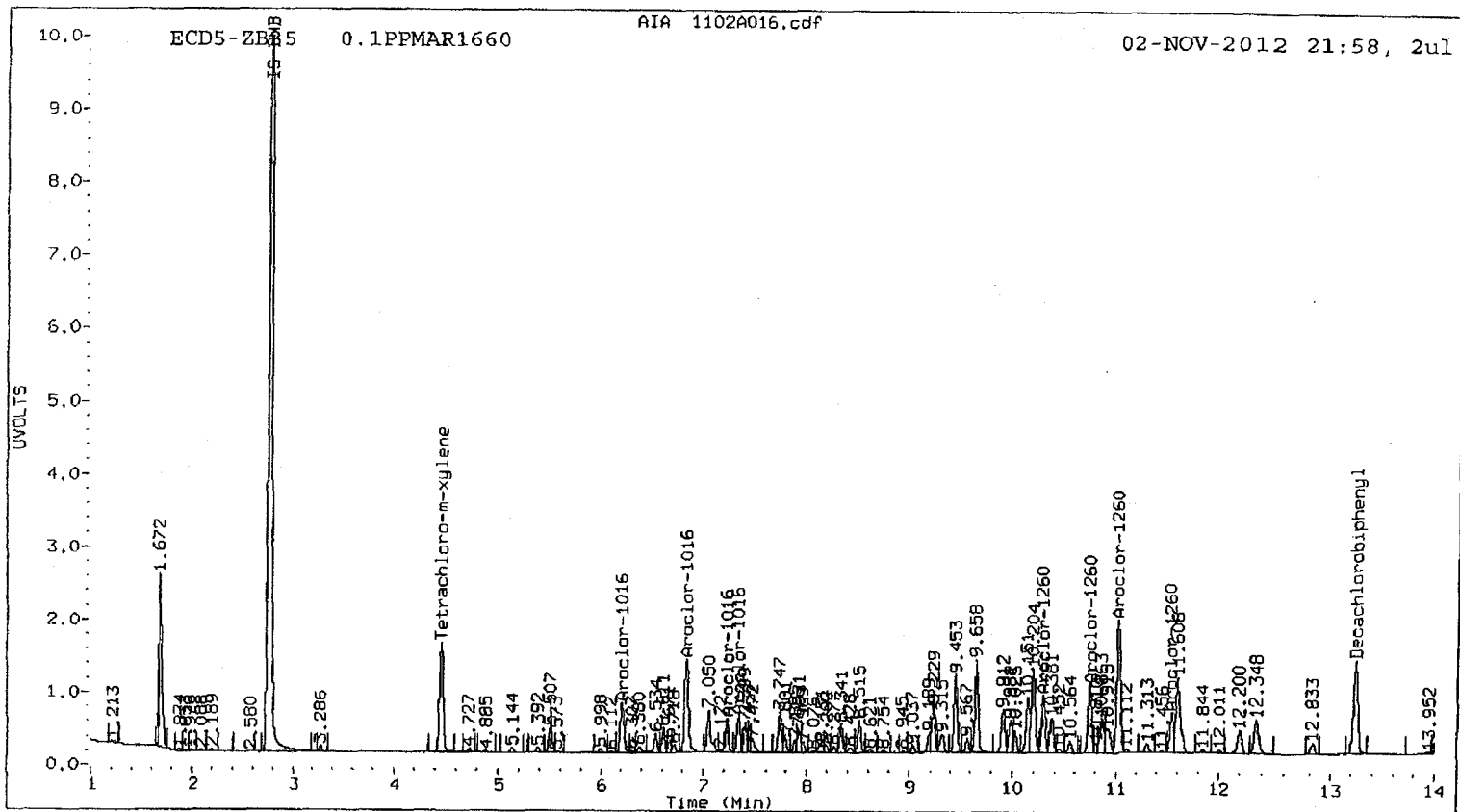
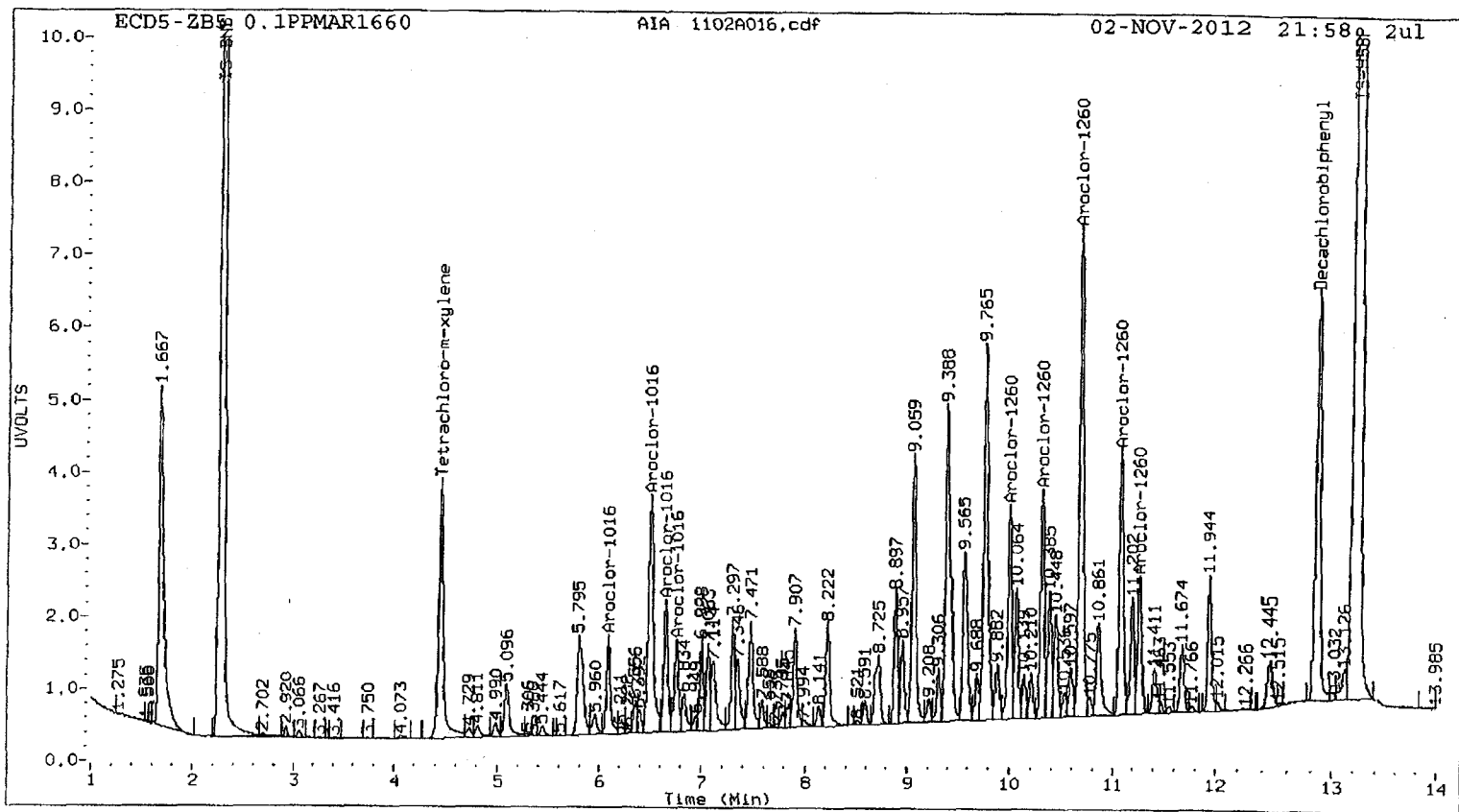
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.092	-0.001	1893217	105.0	1	6.209	0.000	875642	107.4
Aroclor-1016	2	6.496	-0.001	5969040	105.9	2	6.842	0.001	1836774	106.5
Aroclor-1016	3	6.646	-0.001	2571001	105.8	3	7.226	0.002	479038	106.8
Aroclor-1016	4	6.756	-0.001	1824304	105.3	4	7.335	0.001	539029	106.8
Total Col1Ave (4 peaks):				105.5	Total Col2Ave (4 peaks):				106.9	RPD = 1
Corrected Ave (3 peaks):				105.3	Corrected Ave (3 peaks):				106.7	RPD = 1
Aroclor-1260	1	9.995	-0.001	3954611	98.7	1	10.302	0.000	909167	106.6
Aroclor-1260	2	10.311	0.000	3988453	99.3	2	10.752	0.000	1120883	107.1
Aroclor-1260	3	10.685	0.000	9420553	98.5	3	11.025	0.000	2219033	106.6
Aroclor-1260	4	11.084	0.000	5347196	97.6	4	11.546	-0.001	652983	104.1
Aroclor-1260	5	11.274	-0.001	2618756	99.4	NS	---	---	---	---
Total Col1Ave (5 peaks):				98.7	Total Col2Ave (4 peaks):				106.1	RPD = 7
Corrected Ave (4 peaks):				98.5	Corrected Ave (3 peaks):				105.7	RPD = 7

Total PCB Area Col1 (4.544 - 12.755) = 115293780 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 28372185 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A017.d
Data file 2: 20121102.B/ical-2.b/1102A017.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 02-NOV-2012 22:18
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.444	-0.001 25958998	4.454 -0.002 8195360	38.3	38.8	1.4	Tetrachloro-m-xylene
12.855	0.000 34947124	13.247 -0.001 7841701	33.5	35.7	6.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.7	97.0
Decachlorobiphenyl	83.7	89.2

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32469455	3.9
Hexabromobiphenyl	64198300	67388285	5.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14811515	1.9
Hexabromobiphenyl	15789428	16169446	2.4

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

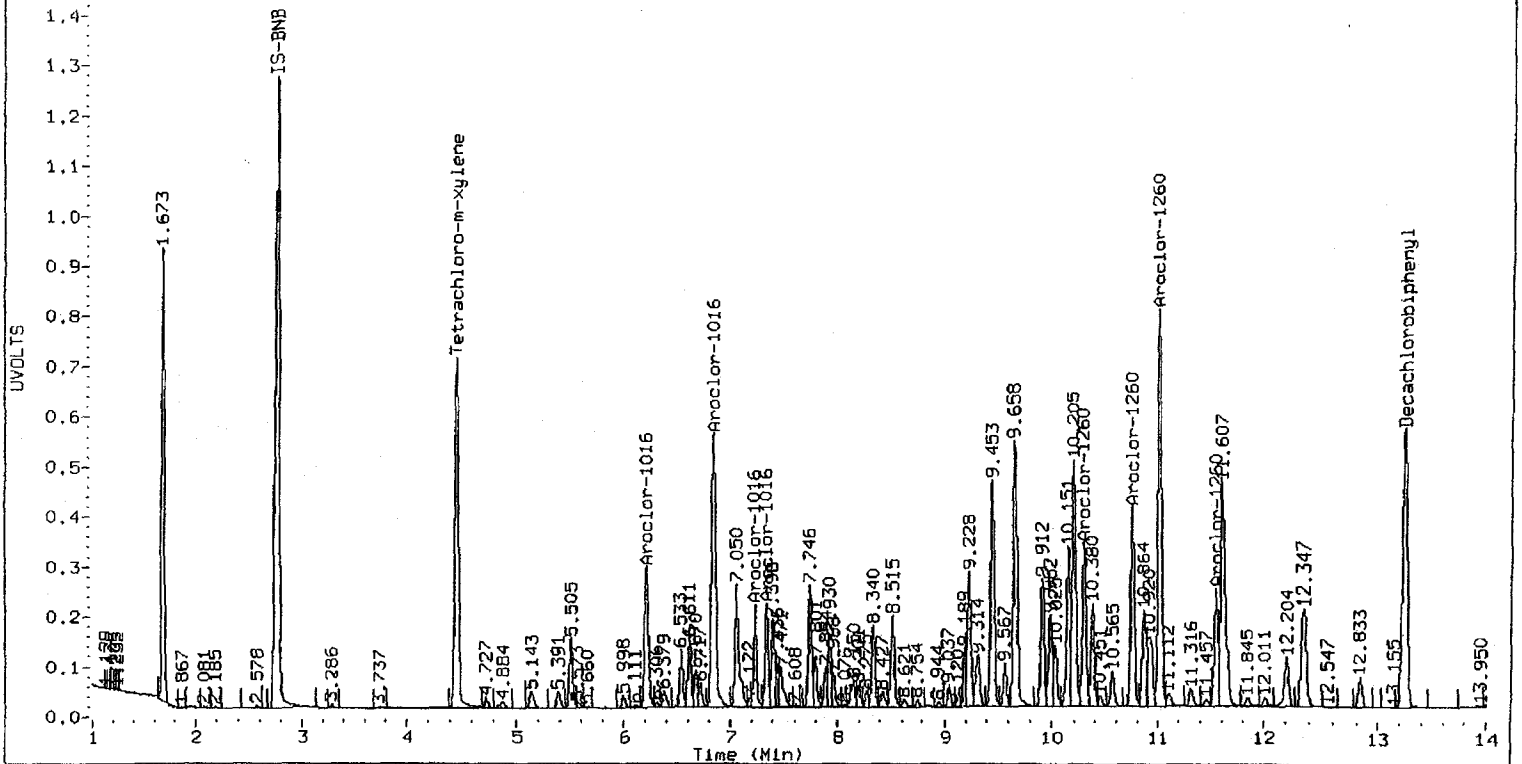
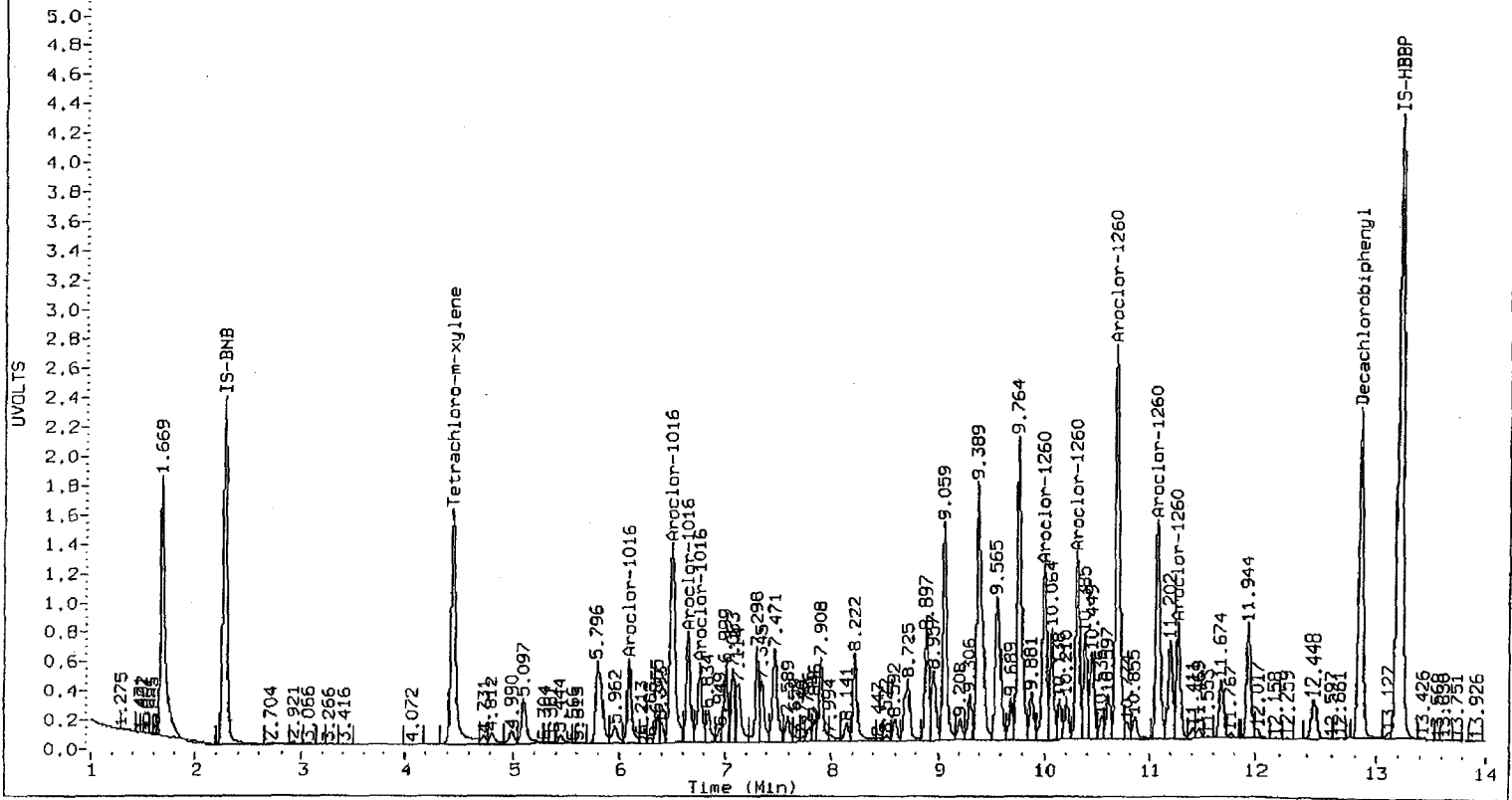
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.092	-0.001	8087231	445.5	1	6.209	0.000	3611465	435.3
Aroclor-1016	2	6.497	-0.001	24766570	437.8	2	6.840	0.000	7844846	446.9
Aroclor-1016	3	6.646	-0.001	10702771	438.5	3	7.225	0.000	2089747	457.6
Aroclor-1016	4	6.757	-0.001	7808473	447.2	4	7.334	0.000	2284137	444.7
Total CollAve (4 peaks):				442.2		Total Col2Ave (4 peaks):				446.1 RPD = 1
Corrected Ave (3 peaks):				440.6		Corrected Ave (3 peaks):				442.3 RPD = 0

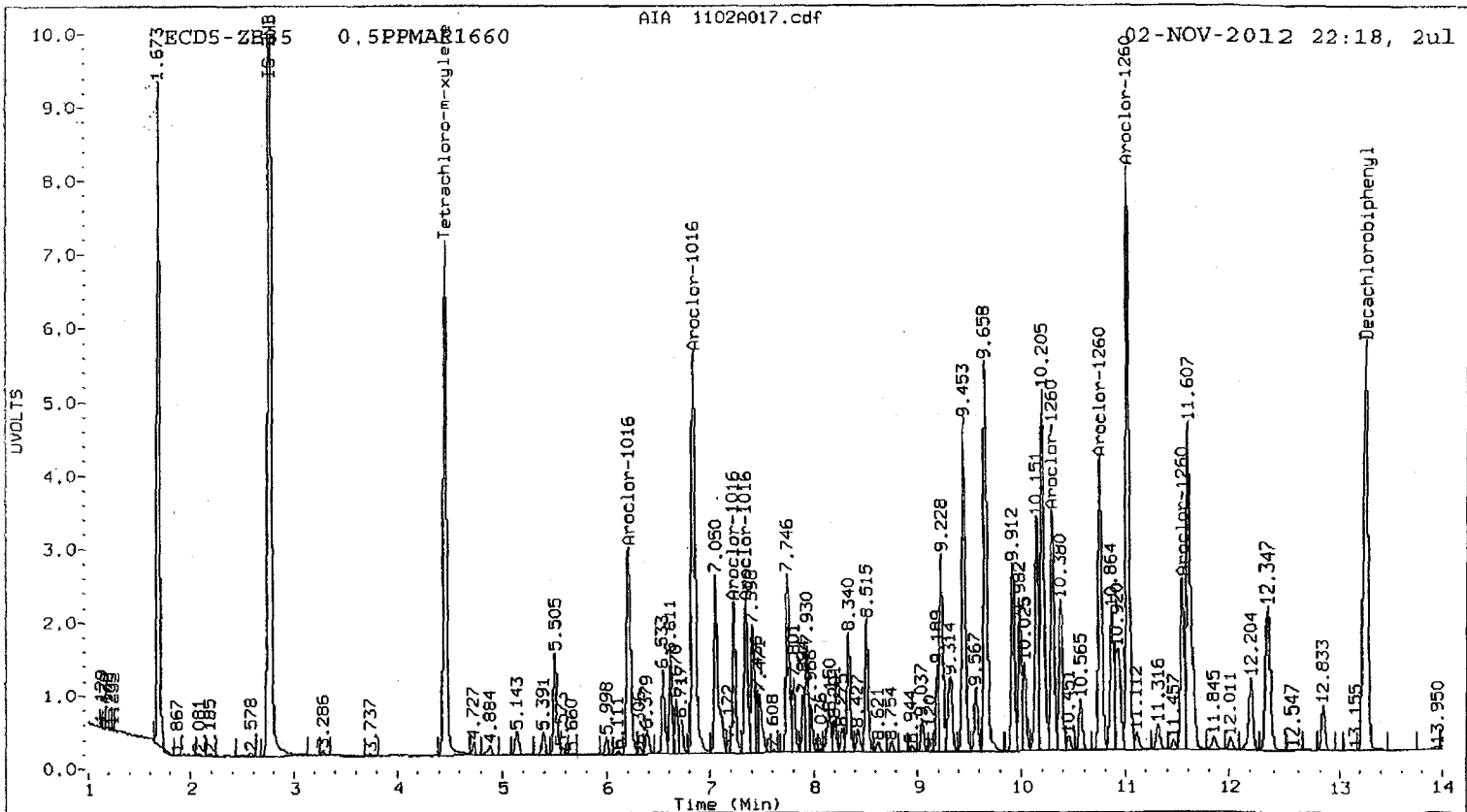
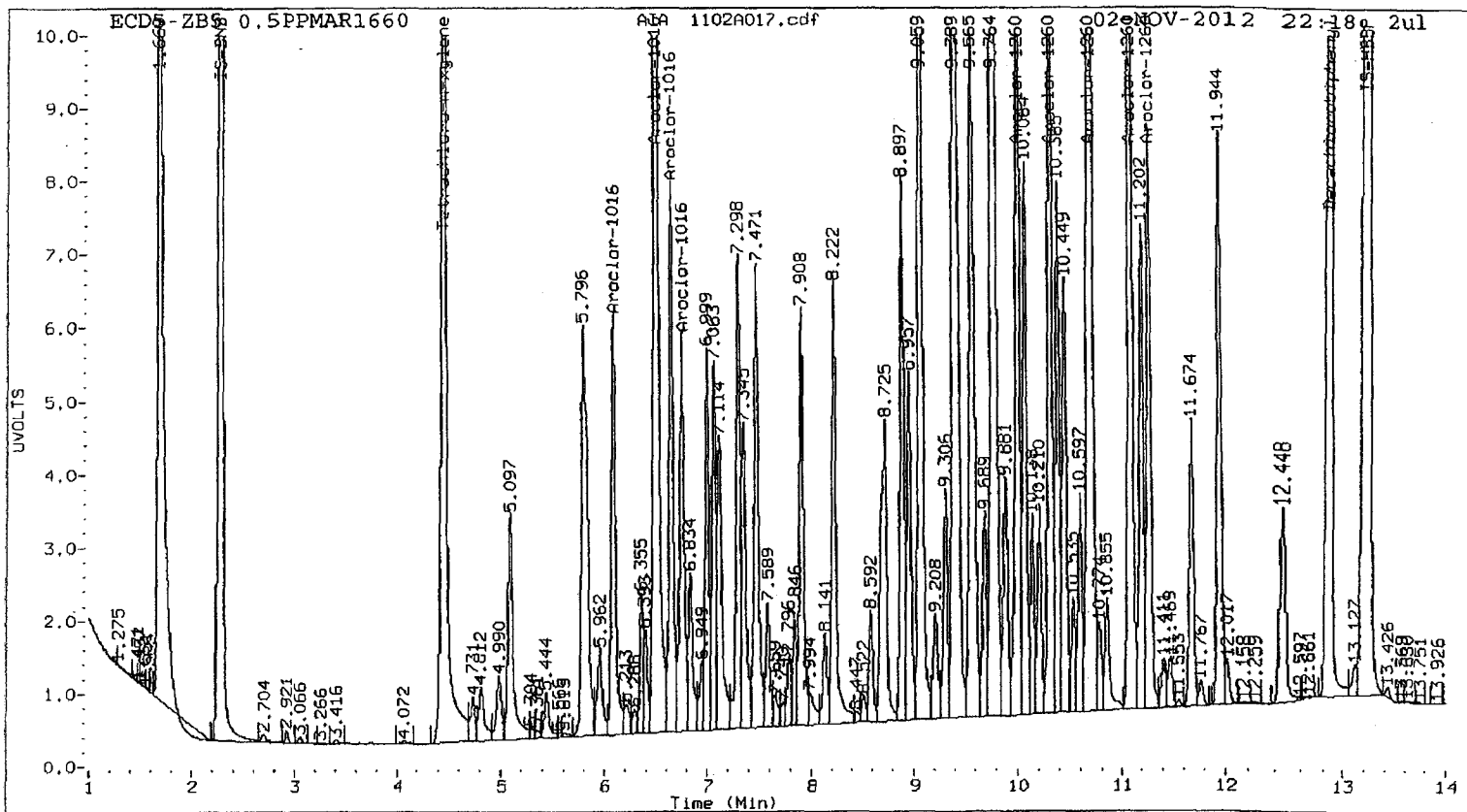
Aroclor-1260	1	9.995	0.000	16338550	416.5	1	10.302	0.000	3830719	443.8
Aroclor-1260	2	10.312	0.000	16605271	421.1	2	10.752	0.000	4730699	446.6
Aroclor-1260	3	10.686	0.000	38671574	413.6	3	11.025	0.000	9547787	453.0
Aroclor-1260	4	11.086	0.001	22198886	414.3	4	11.547	0.000	2815861	443.3
Aroclor-1260	5	11.276	0.000	11317084	434.7	NS	---			----
Total CollAve (5 peaks):				420.0		Total Col2Ave (4 peaks):				446.7 RPD = 6
Corrected Ave (4 peaks):				416.4		Corrected Ave (3 peaks):				444.6 RPD = 7

Total PCB Area Coll (4.544 - 12.755) = 481213514 Coll Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 119882466 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A018.d
Data file 2: 20121102.B/ical-2.b/1102A018.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 02-NOV-2012 22:38
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.444	-0.001	13817189	4.454	-0.002	4260289	20.2	20.1	0.5	Tetrachloro-m-xylene
12.854	0.000	19265336	13.247	-0.001	4189078	18.3	19.1	4.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.5	50.2
Decachlorobiphenyl	45.9	47.7

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32779971	4.9
Hexabromobiphenyl	64198300	67800793	5.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14876946	2.3
Hexabromobiphenyl	15789428	16149950	2.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

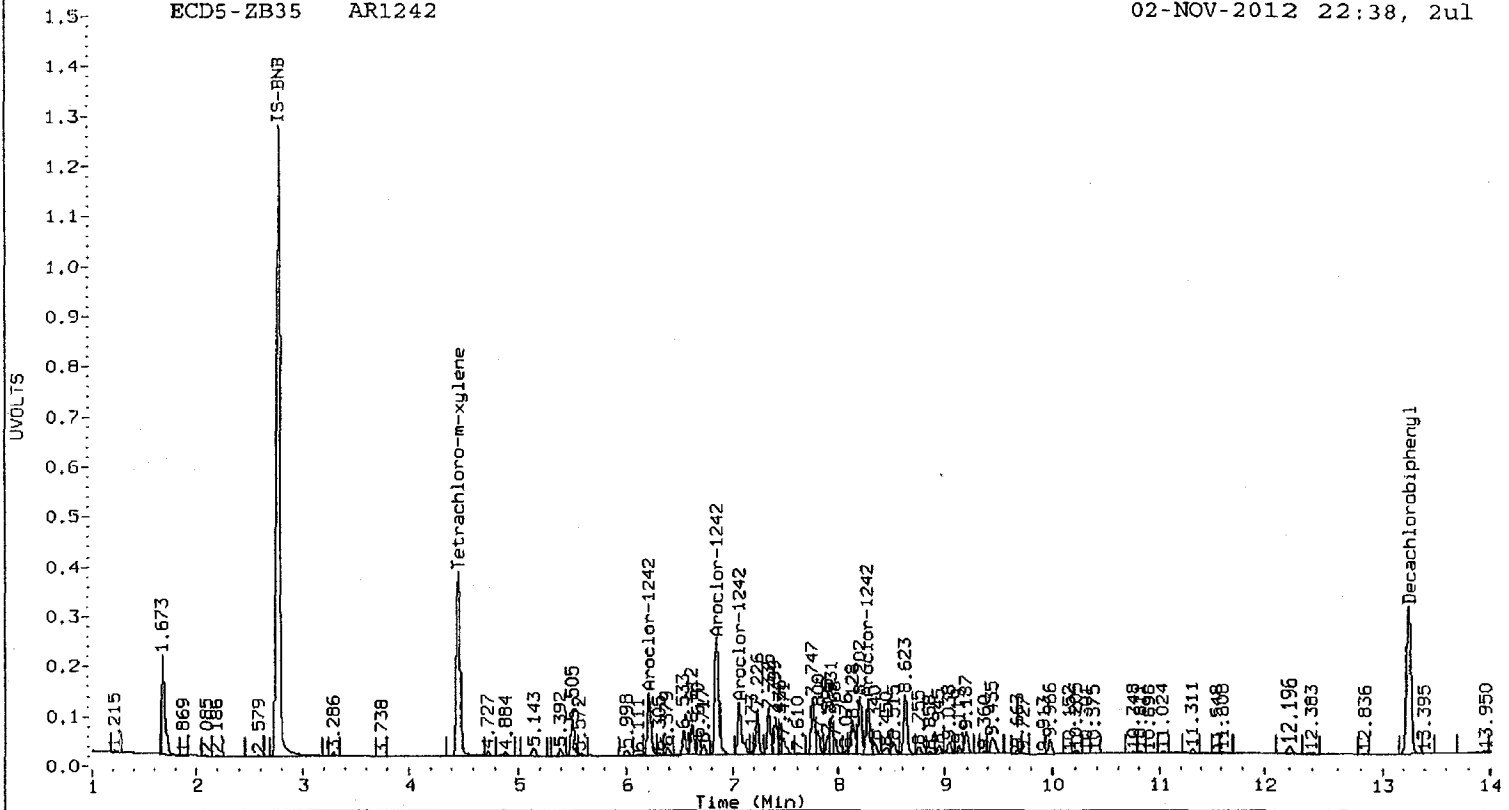
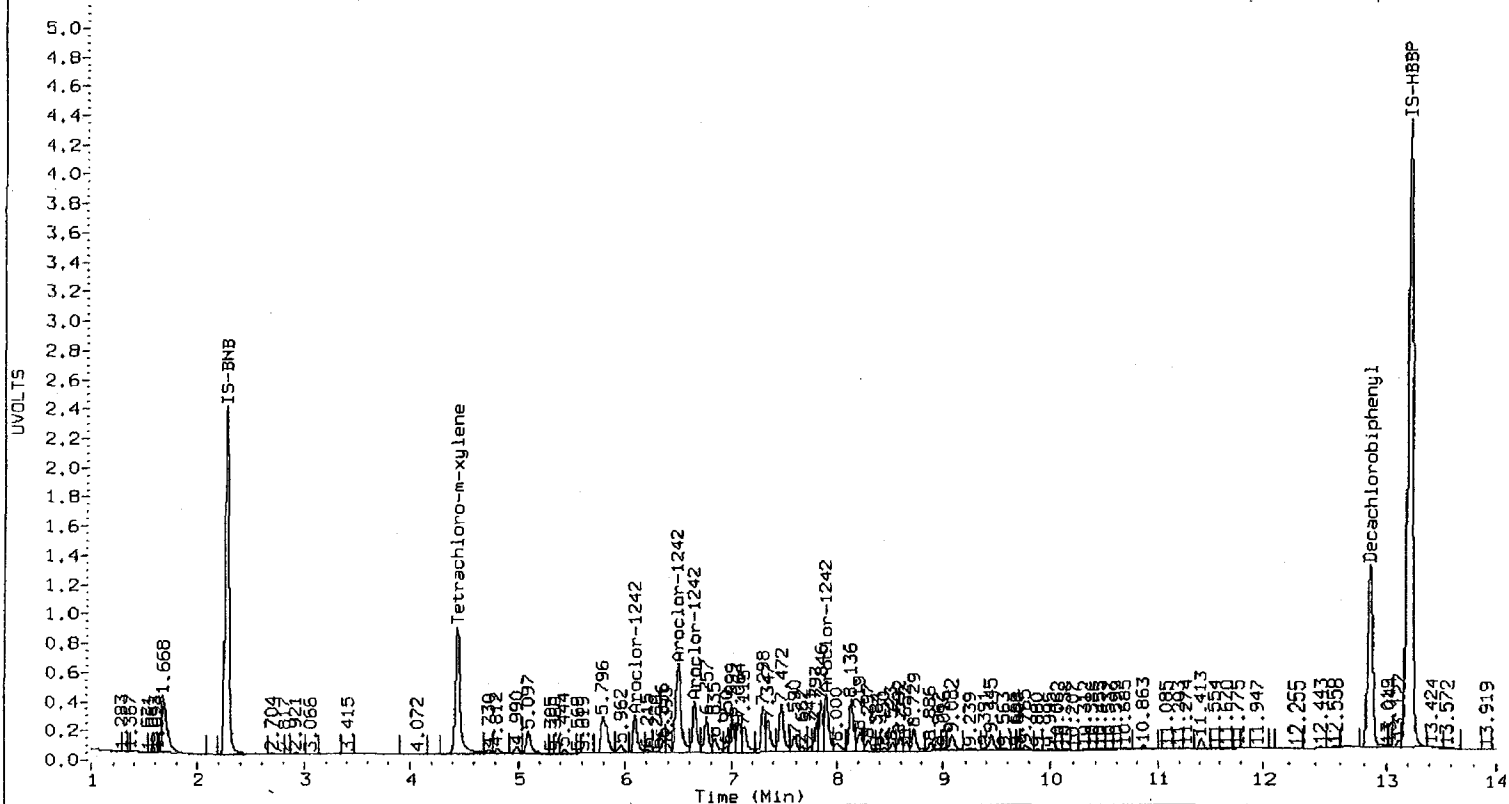
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	6.093	0.000	3565021	250.0	1	6.208	0.000	1588183	250.0
Aroclor-1242	2	6.497	0.000	11043842	250.0	2	6.840	0.000	3380637	250.0
Aroclor-1242	3	6.647	0.000	4795570	250.0	3	7.051	0.000	1404821	250.0
Aroclor-1242	4	7.899	0.000	5623530	250.0	4	8.276	0.000	1183327	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

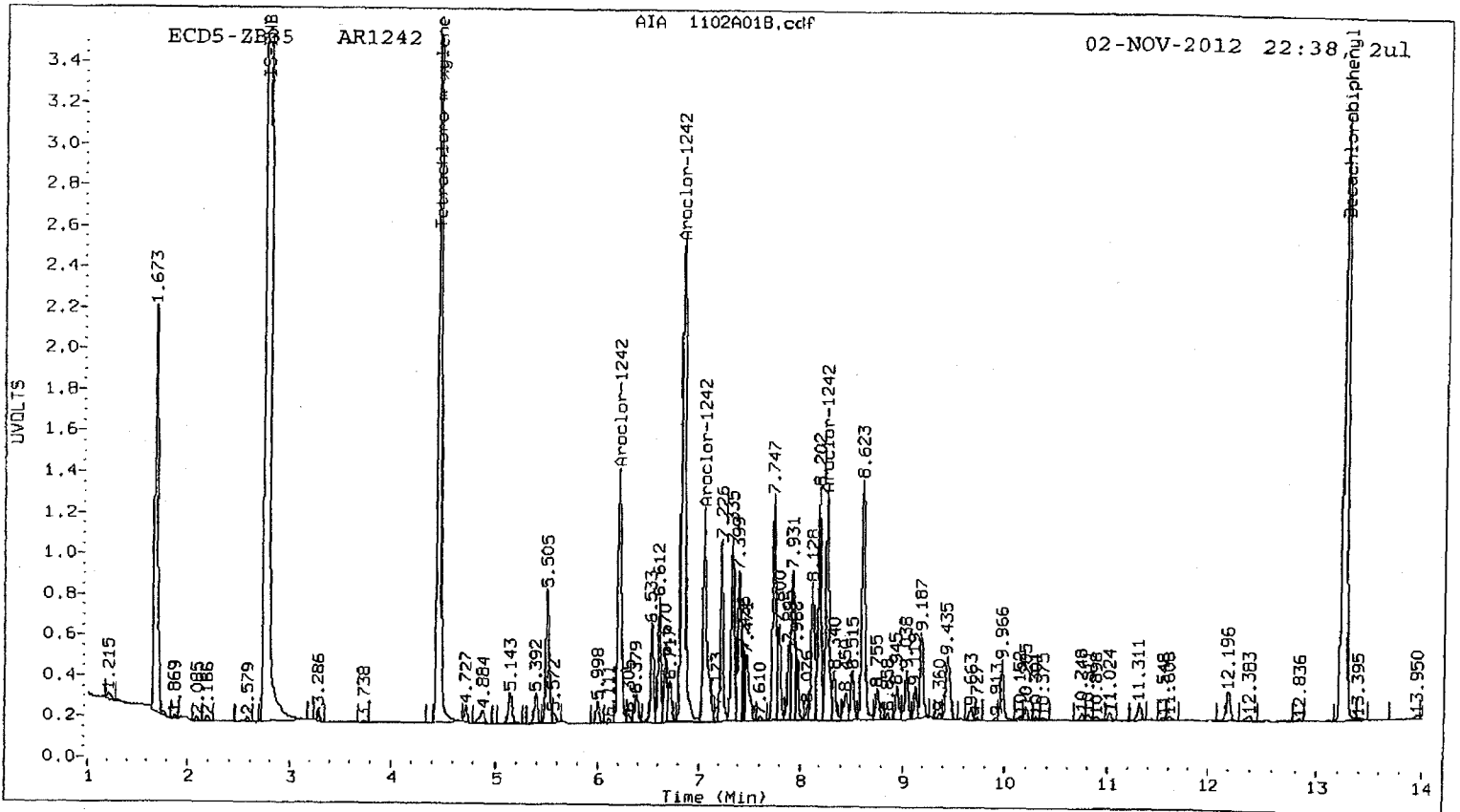
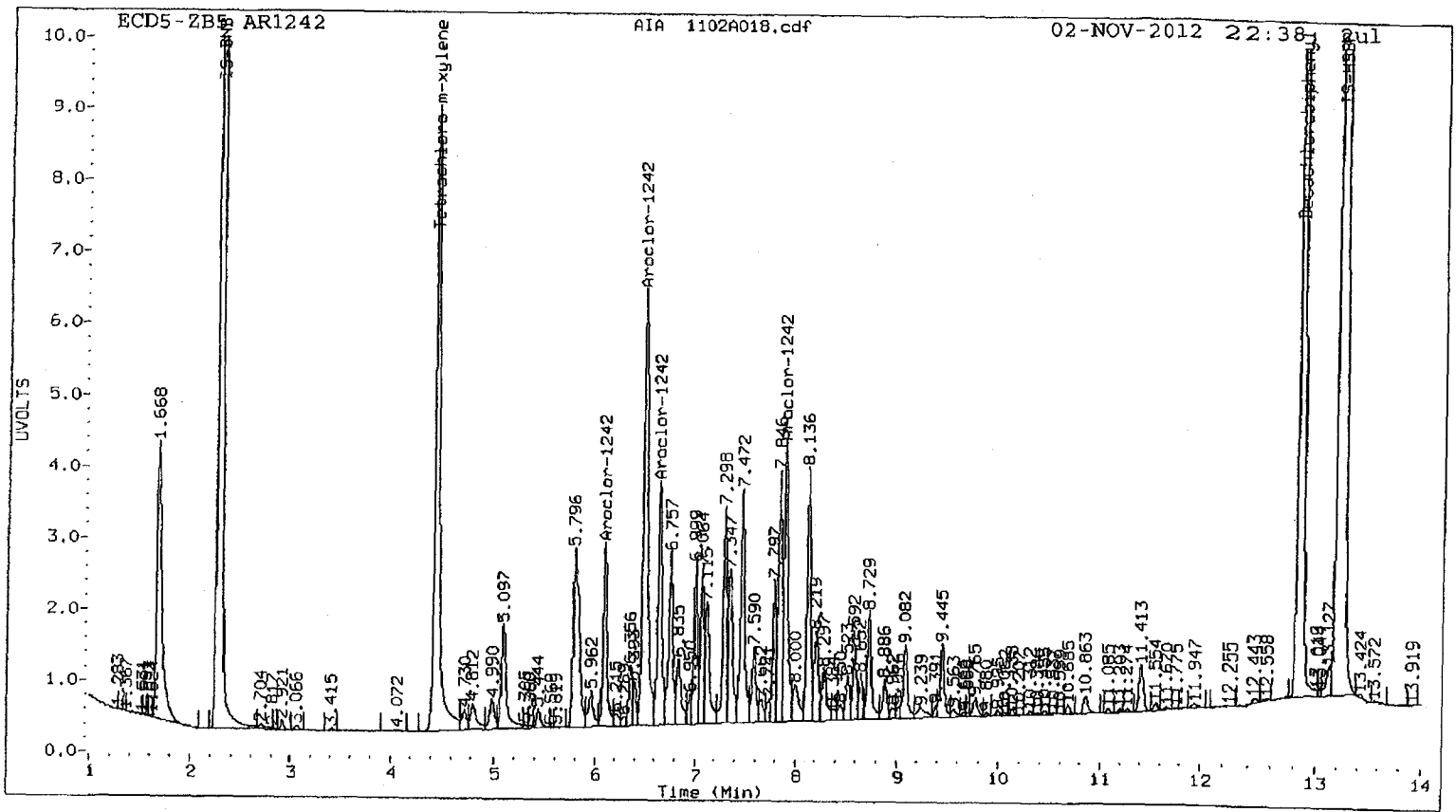
Total PCB Area Col1 (4.544 - 12.755) = 96069806 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 24764849 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A019.d
Data file 2: 20121102.B/ical-2.b/1102A019.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 02-NOV-2012 22:59
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.447	0.002	13966170	4.456	0.000	4380779	20.0	20.3	1.6	Tetrachloro-m-xylene
12.855	0.000	19830475	13.248	0.000	4286593	18.6	19.3	3.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.9	50.8
Decachlorobiphenyl	46.5	48.2

Handwritten signature and date: 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	33486089	7.2
Hexabromobiphenyl	64198300	68805737	7.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	15137931	4.1
Hexabromobiphenyl	15789428	16358718	3.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

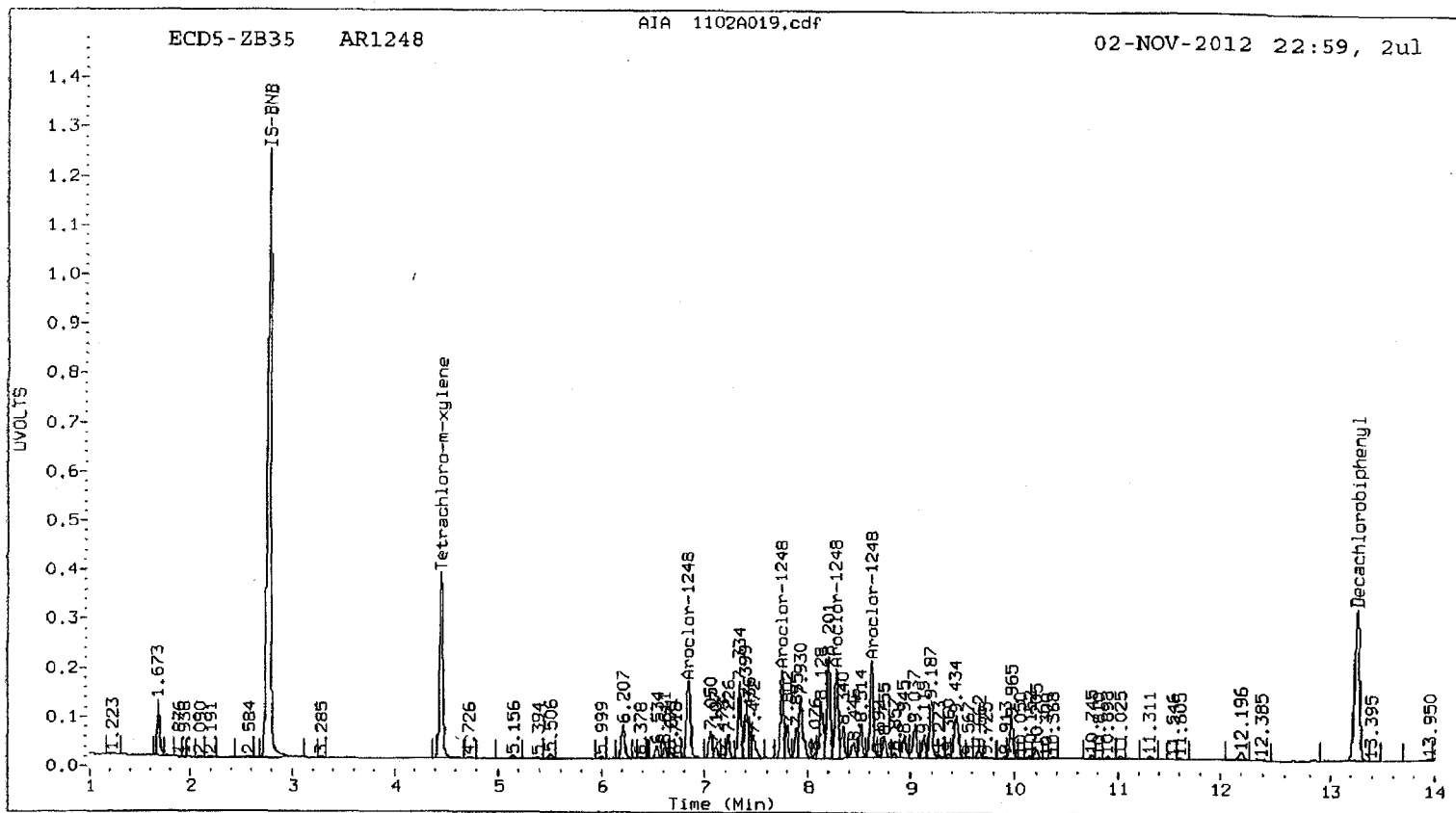
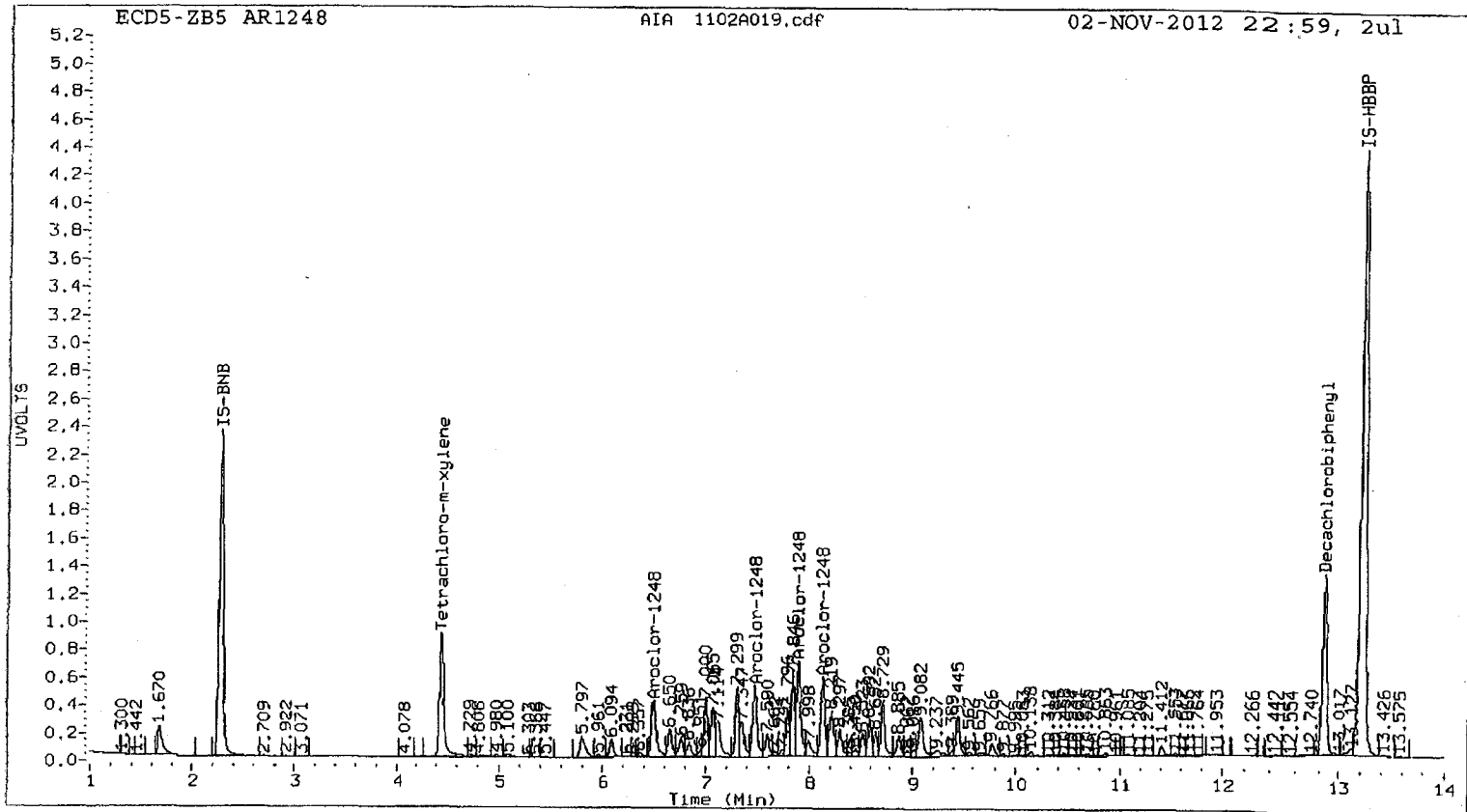
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.494	0.000	7375044	250.0	1	6.837	0.000	2246391	250.0
Aroclor-1248	2	7.472	0.000	7764360	250.0	2	7.746	0.000	1863320	250.0
Aroclor-1248	3	7.901	0.000	9804548	250.0	3	8.275	0.000	1925133	250.0
Aroclor-1248	4	8.136	0.000	7557882	250.0	4	8.622	0.000	2381436	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

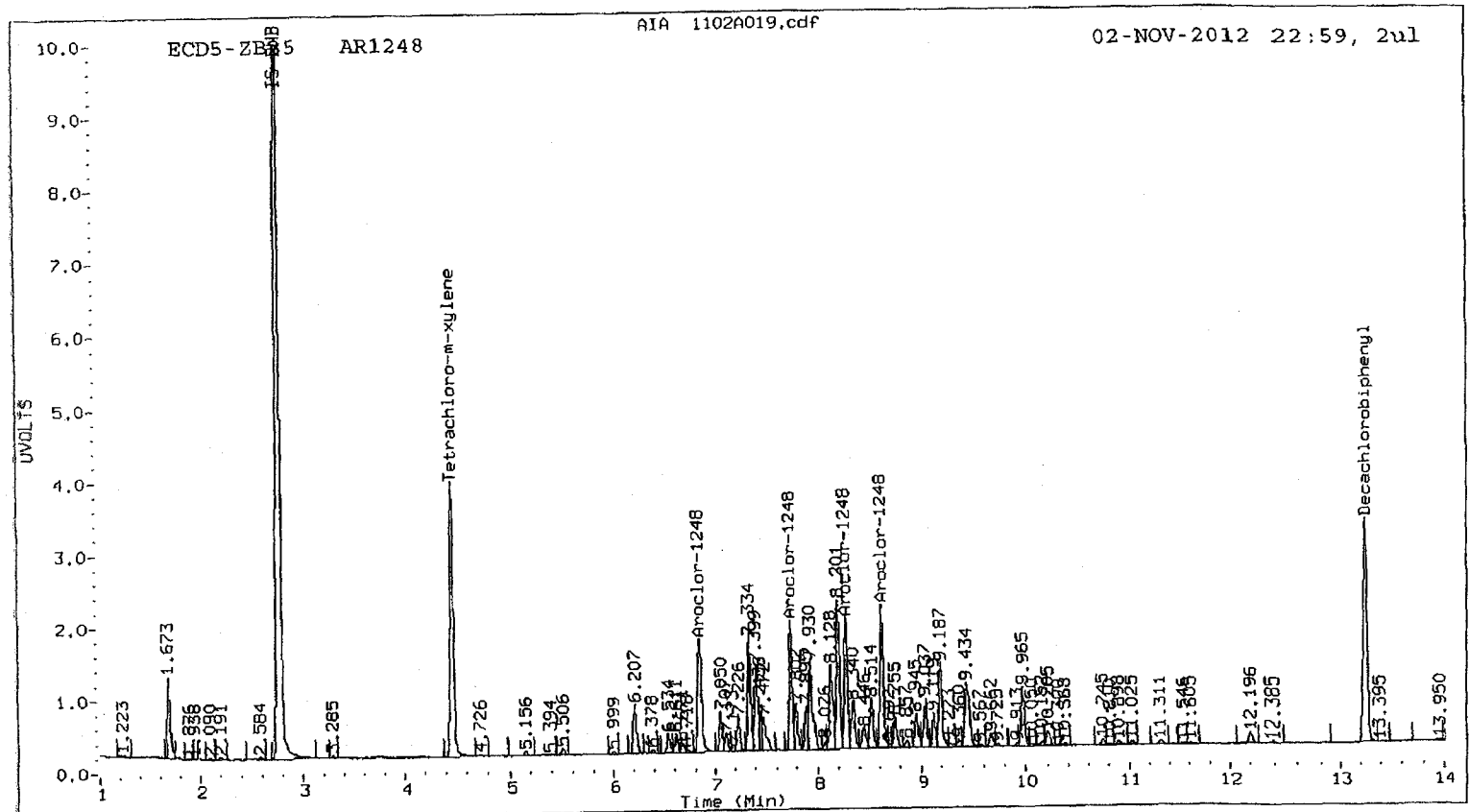
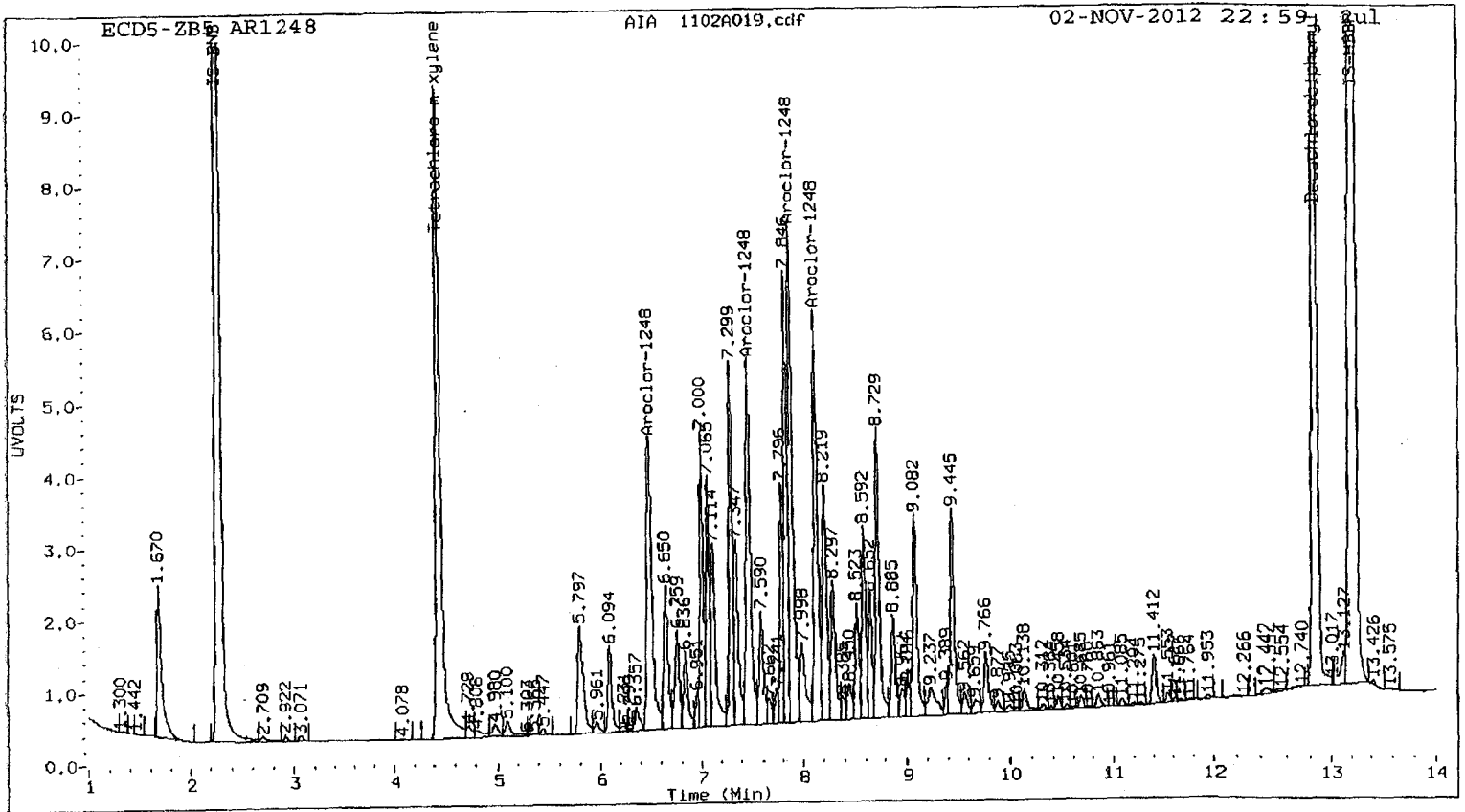
Total PCB Area Col1 (4.544 - 12.755) = 127025734 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 31448043 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A020.d
Data file 2: 20121102.B/ical-2.b/1102A020.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 02-NOV-2012 23:19
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.445	0.001	13706465	4.455	-0.001	4318007	20.0	20.6	2.9	Tetrachloro-m-xylene
12.856	0.001	19363201	13.247	-0.001	4156330	18.4	19.2	3.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.9	51.4
Decachlorobiphenyl	46.1	47.9

J 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32866846	5.2
Hexabromobiphenyl	64198300	67839772	5.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14737446	1.4
Hexabromobiphenyl	15789428	15955858	1.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	8.222	0.000	9810274	250.0	1	8.341	0.000	1599790	250.0
Aroclor-1254	2	8.593	0.000	6449287	250.0	2	8.515	0.000	2020577	250.0
Aroclor-1254	3	8.729	0.000	12534963	250.0	3	9.037	0.000	1552259	250.0
Aroclor-1254	4	9.078	0.000	13720020	250.0	4	9.187	0.000	3404941	250.0
Aroclor-1254	5	9.439	0.000	8627992	250.0	5	9.972	0.000	2051286	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0

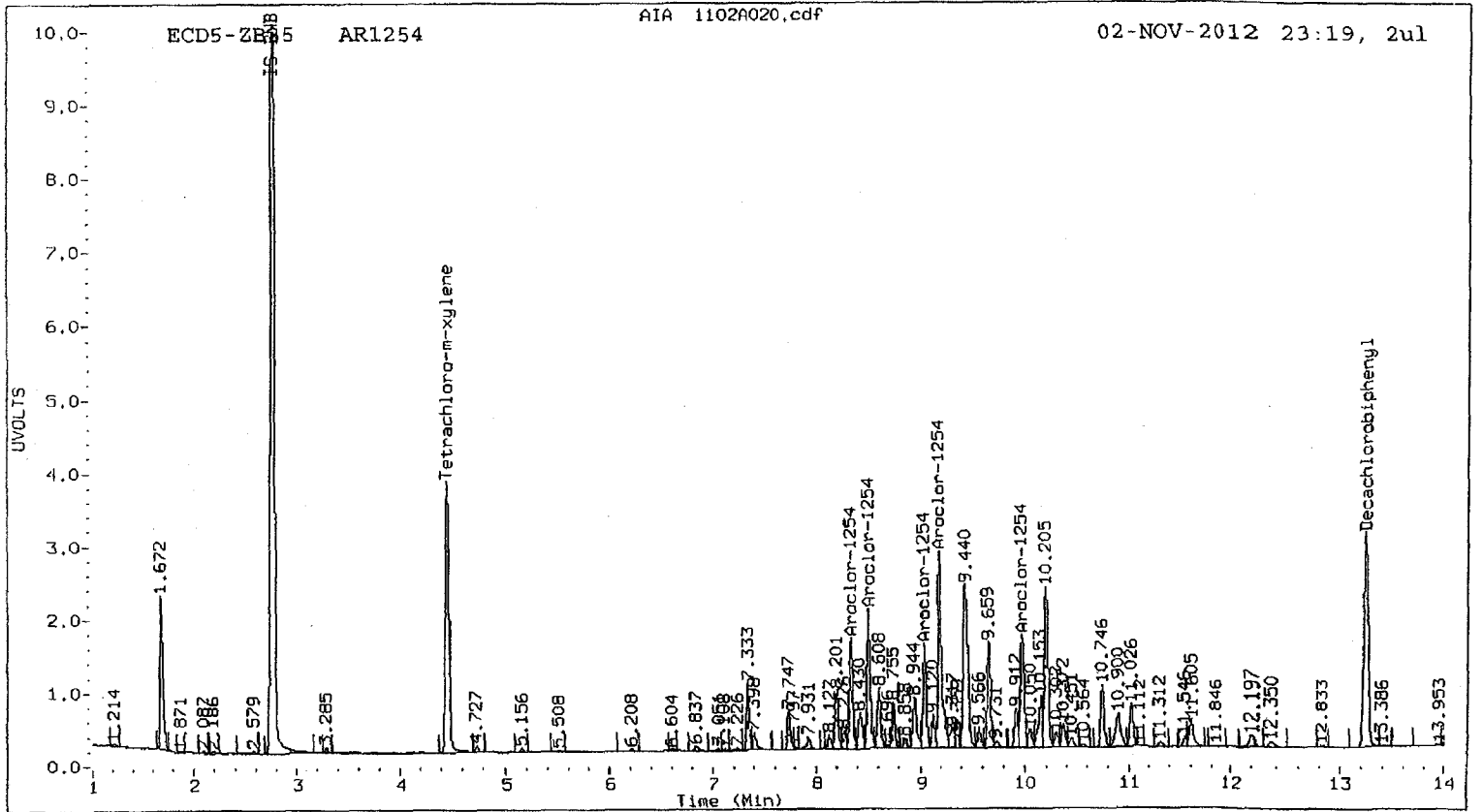
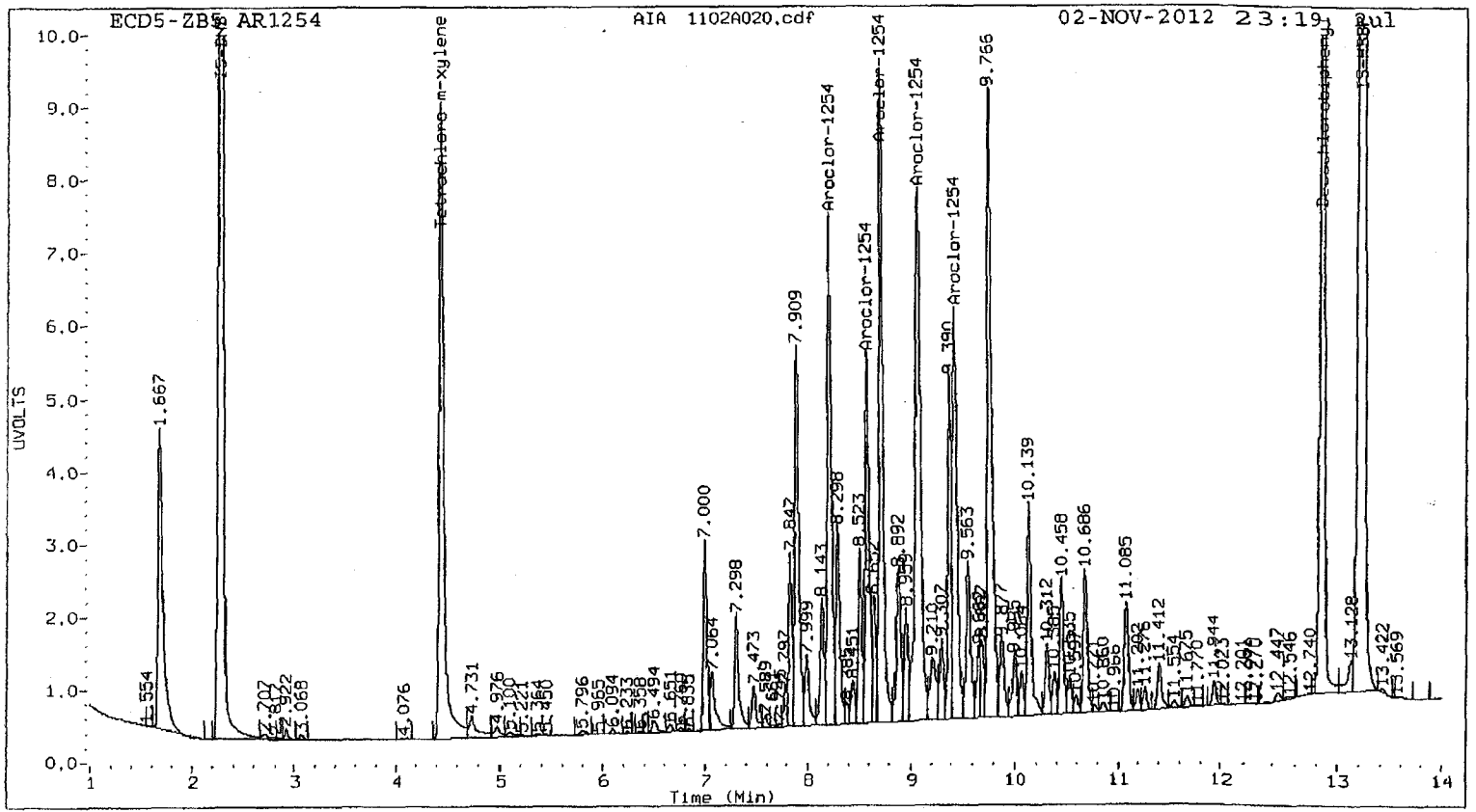
Total PCB Area Col1 (4.544 - 12.755) = 139587028 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 32975674 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR02: 01497



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A021.d
Data file 2: 20121102.B/ical-2.b/1102A021.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 02-NOV-2012 23:40
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col		ZB35 Col		ZB5	ZB35	RPD	Compound/Flag
RT	Shift Response	RT	Shift Response	on col	on col		
4.447	0.003 13991914	4.457	0.002 4297388	20.9	21.3	1.7	Tetrachloro-m-xylene
12.855	0.001 19678714	13.247	-0.001 4215388	19.1	19.8	3.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	52.3	53.2
Decachlorobiphenyl	47.7	49.5

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11/04/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32037907	2.5
Hexabromobiphenyl	64198300	66658077	3.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14169986	-2.5
Hexabromobiphenyl	15789428	15683025	-0.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.817	0.000	1955059	250.0	1	5.141	0.000	600189	250.0
Aroclor-1221	2	4.995	0.000	1338848	250.0	2	5.393	0.000	353488	250.0
Aroclor-1221	3	5.101	0.000	4360682	250.0	3	5.507	0.000	1111277	250.0
Aroclor-1221	NS	---				4	5.576	0.000	191816	250.0
Total Col1Ave (3 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				250.0	

Aroclor-1262	1	9.996	0.000	14491157	250.0	1	10.302	0.000	3419212	250.0
Aroclor-1262	2	10.312	0.000	11002550	250.0	2	10.752	0.000	3037869	250.0
Aroclor-1262	3	10.687	0.000	28527516	250.0	3	11.025	0.000	6666677	250.0
Aroclor-1262	4	11.202	0.000	10746741	250.0	4	11.547	0.000	2698127	250.0
Aroclor-1262	5	11.275	0.000	11799249	250.0	5	12.347	0.000	2593001	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0

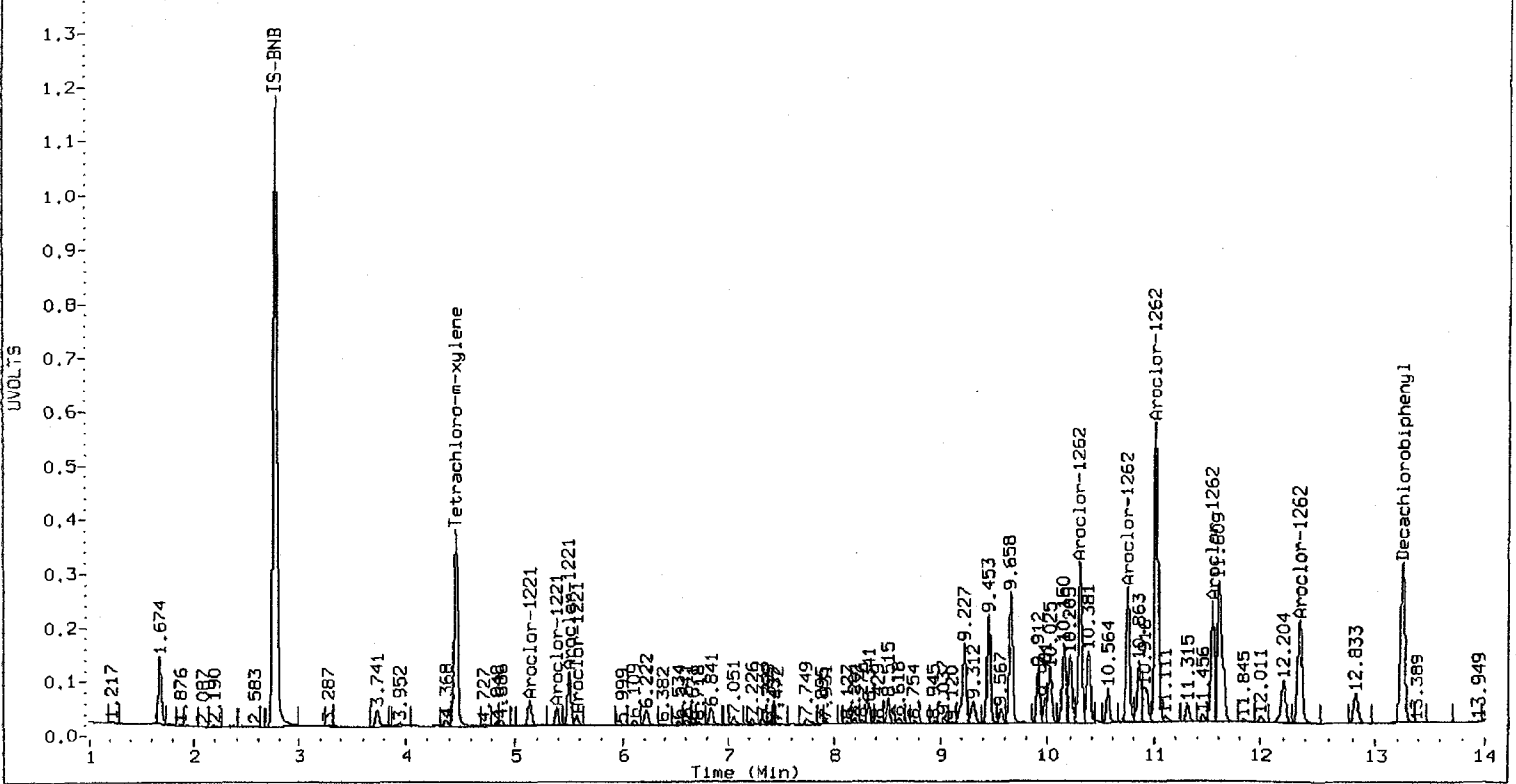
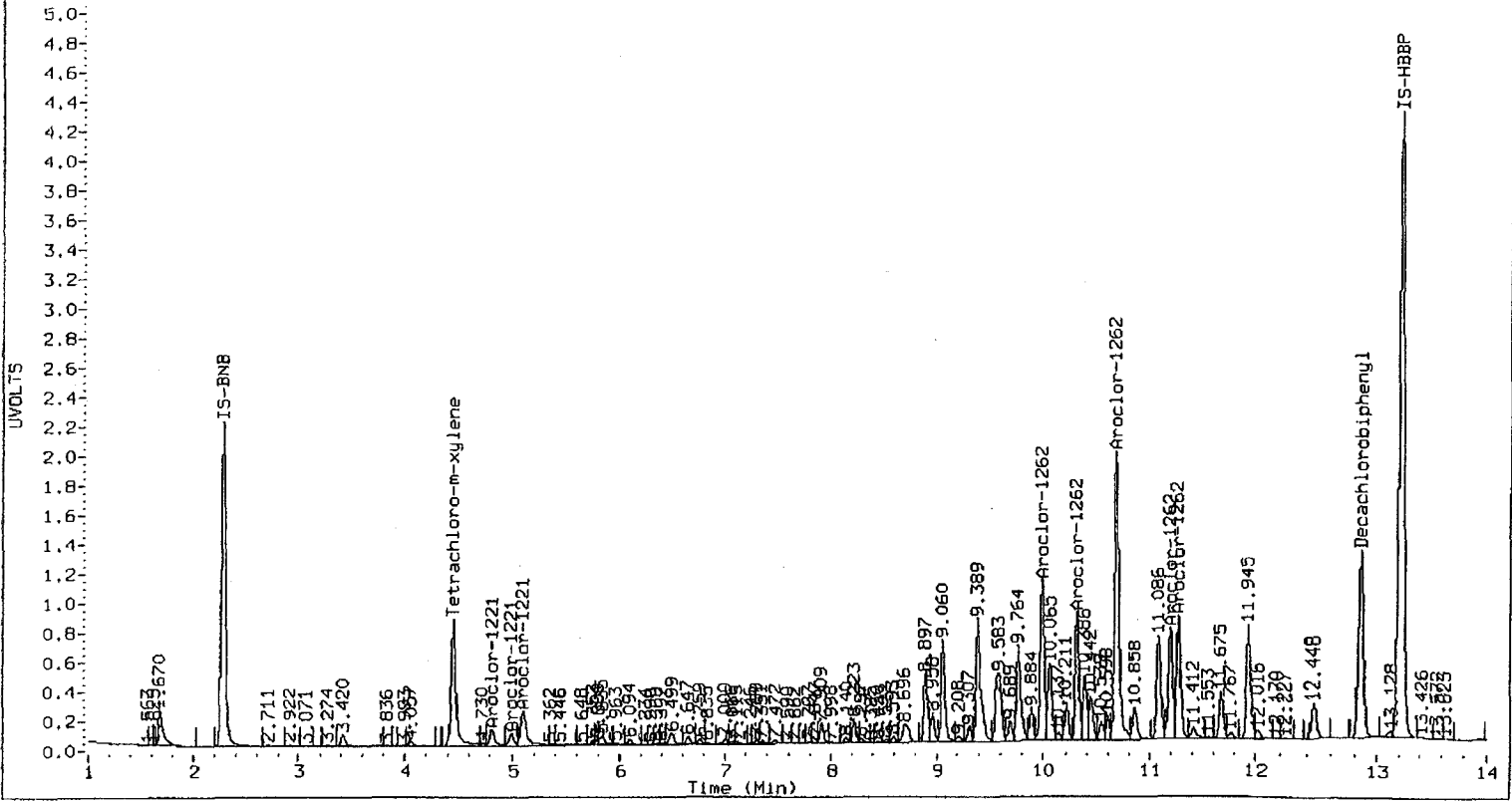
Total PCB Area Col1 (4.544 - 12.755) = 214801420

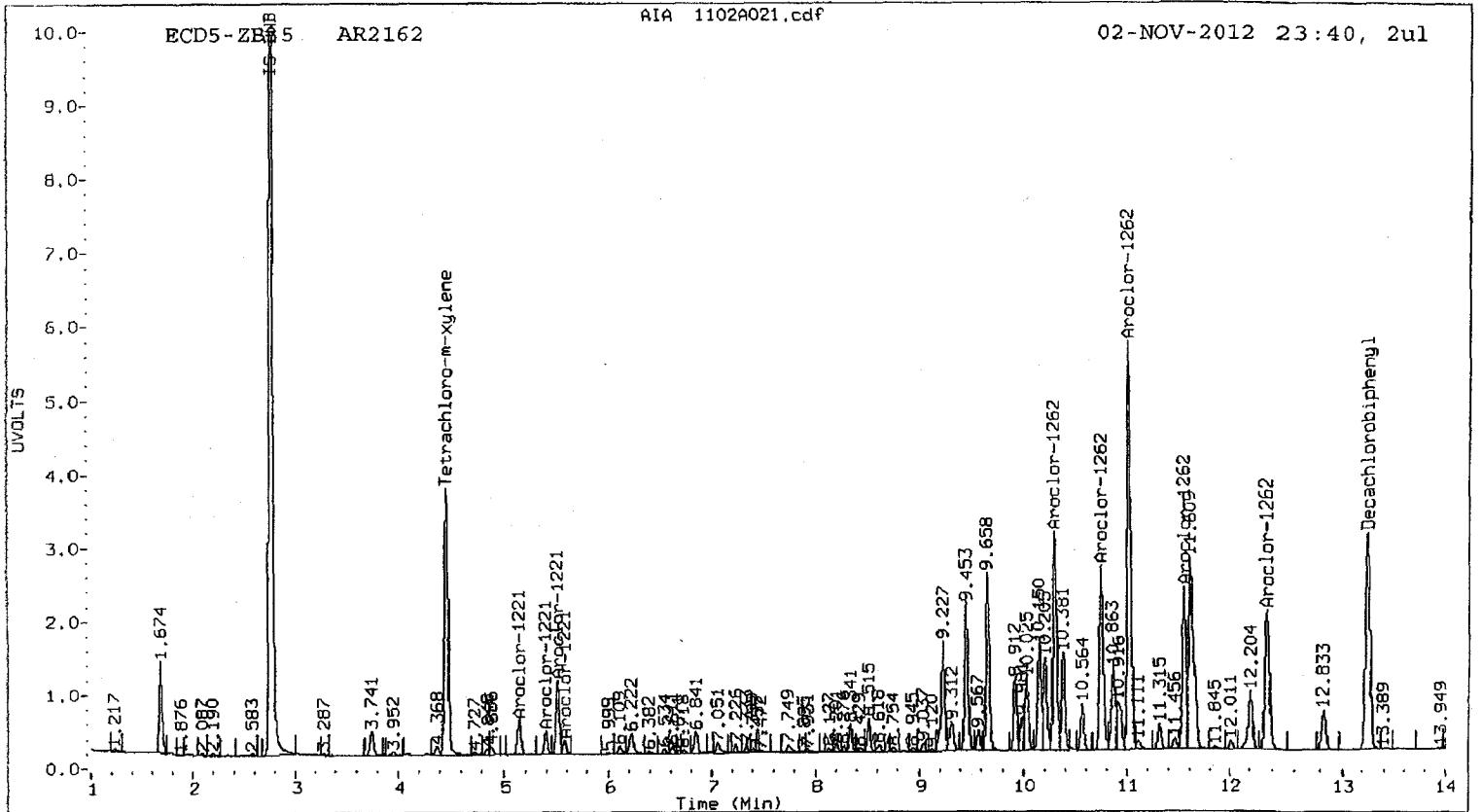
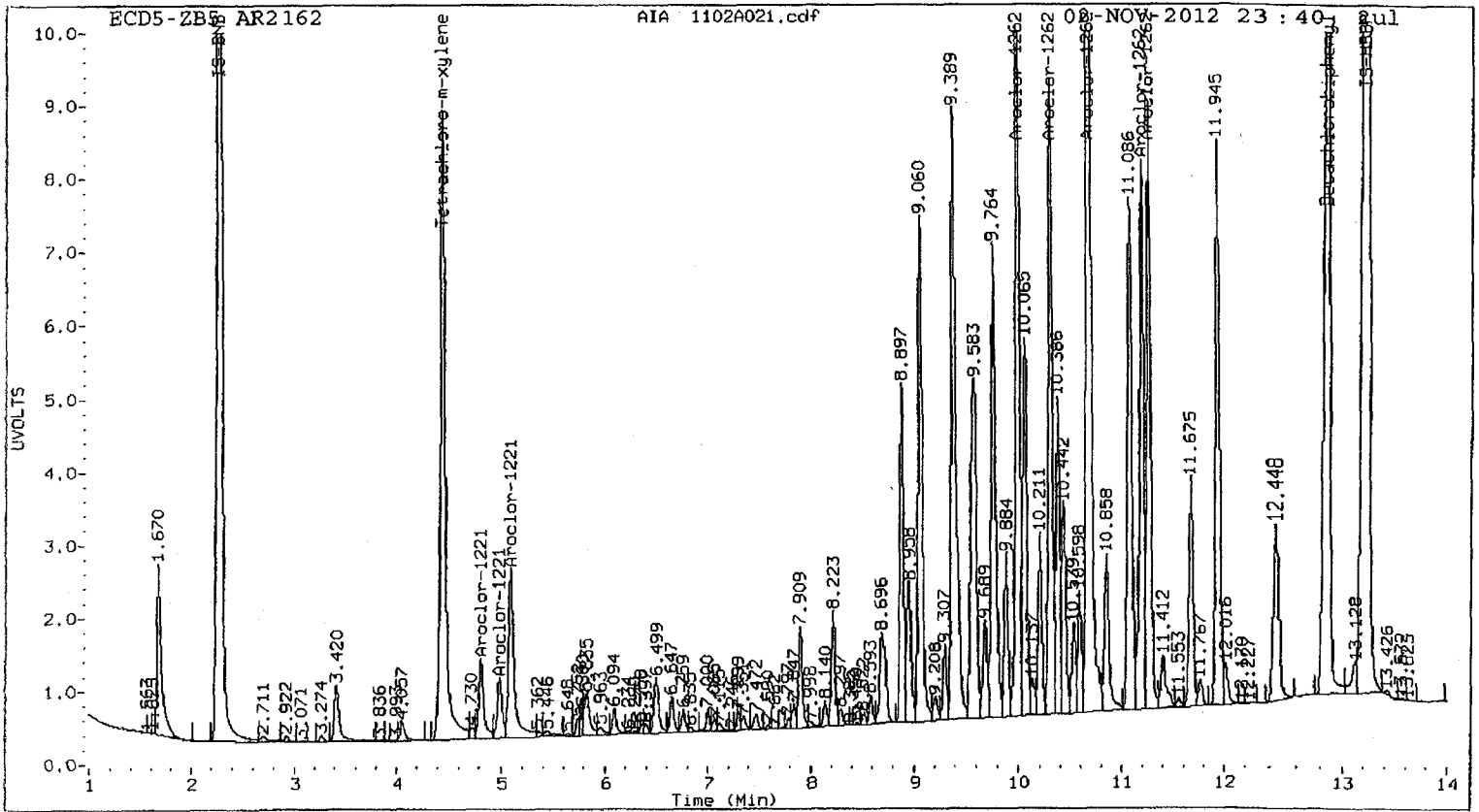
Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 50408807

Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A022.d
Data file 2: 20121102.B/ical-2.b/1102A022.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-NOV-2012 00:00
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.447	0.002 13985500	4.456 0.000 4278938	20.1	20.4	1.5	Tetrachloro-m-xylene
12.855	0.001 34063776	13.248 0.000 7494445	31.8	34.0	6.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.3	51.0
Decachlorobiphenyl	79.5	85.0

Handwritten signature and date: 11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	33288564	6.5
Hexabromobiphenyl	64198300	69153536	7.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14704019	1.2
Hexabromobiphenyl	15789428	16219252	2.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

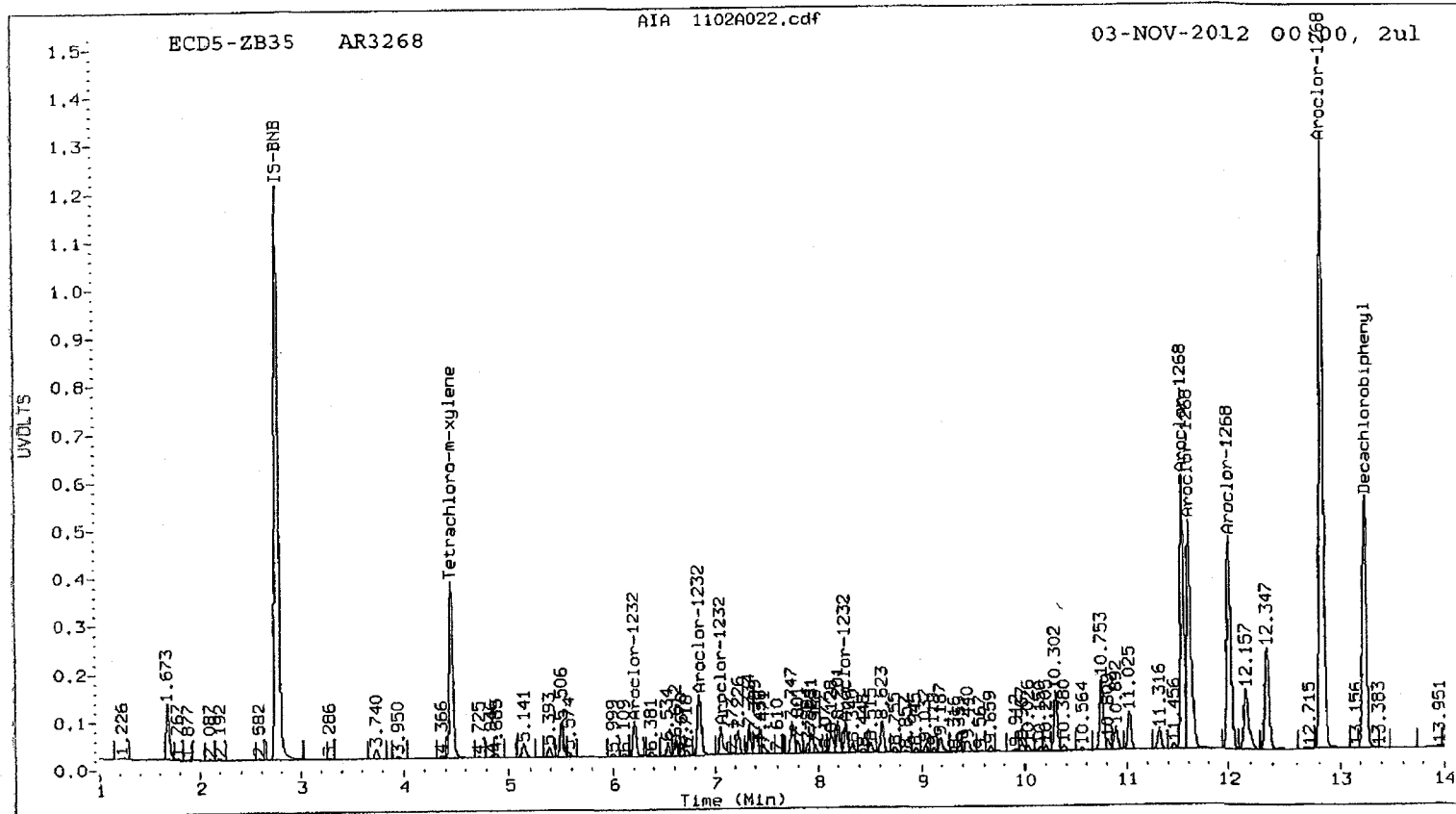
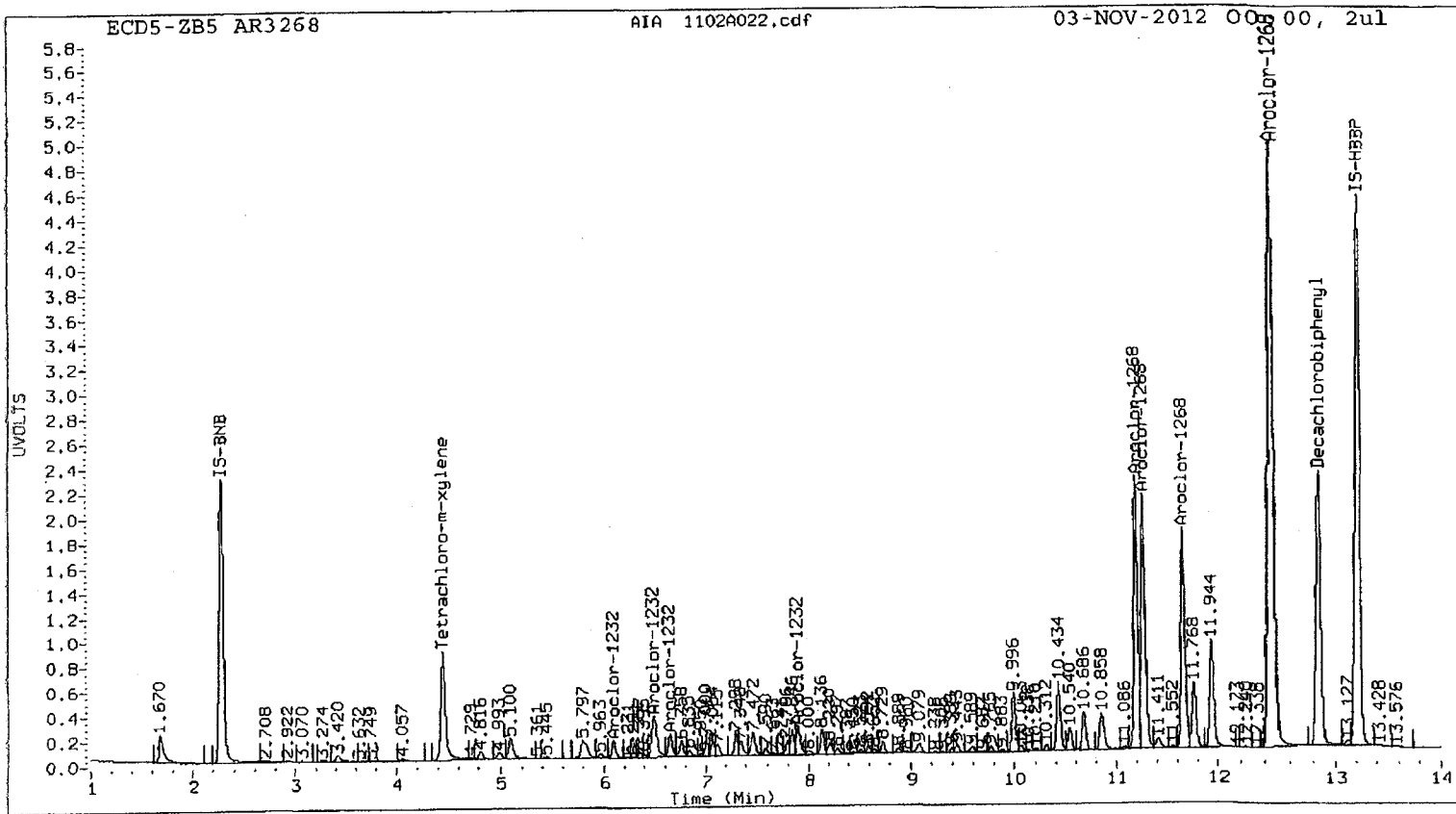
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	6.094	0.000	1895483	250.0	1	6.210	0.000	912267	250.0
Aroclor-1232	2	6.497	0.000	5926512	250.0	2	6.841	0.000	1797558	250.0
Aroclor-1232	3	6.647	0.000	2584617	250.0	3	7.050	0.000	751459	250.0
Aroclor-1232	4	7.901	0.000	3238914	250.0	4	8.276	0.000	638021	250.0
Total Col1Ave (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

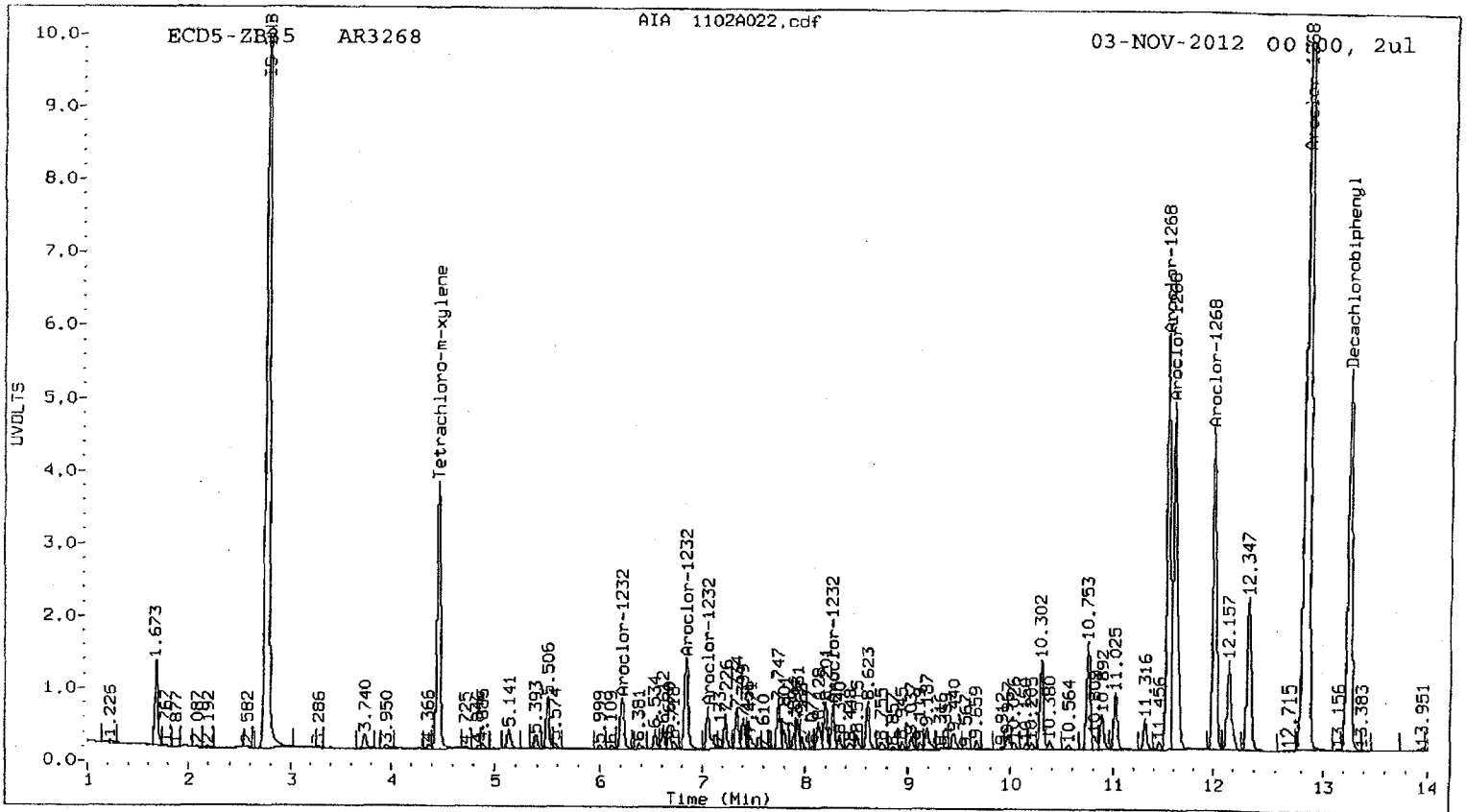
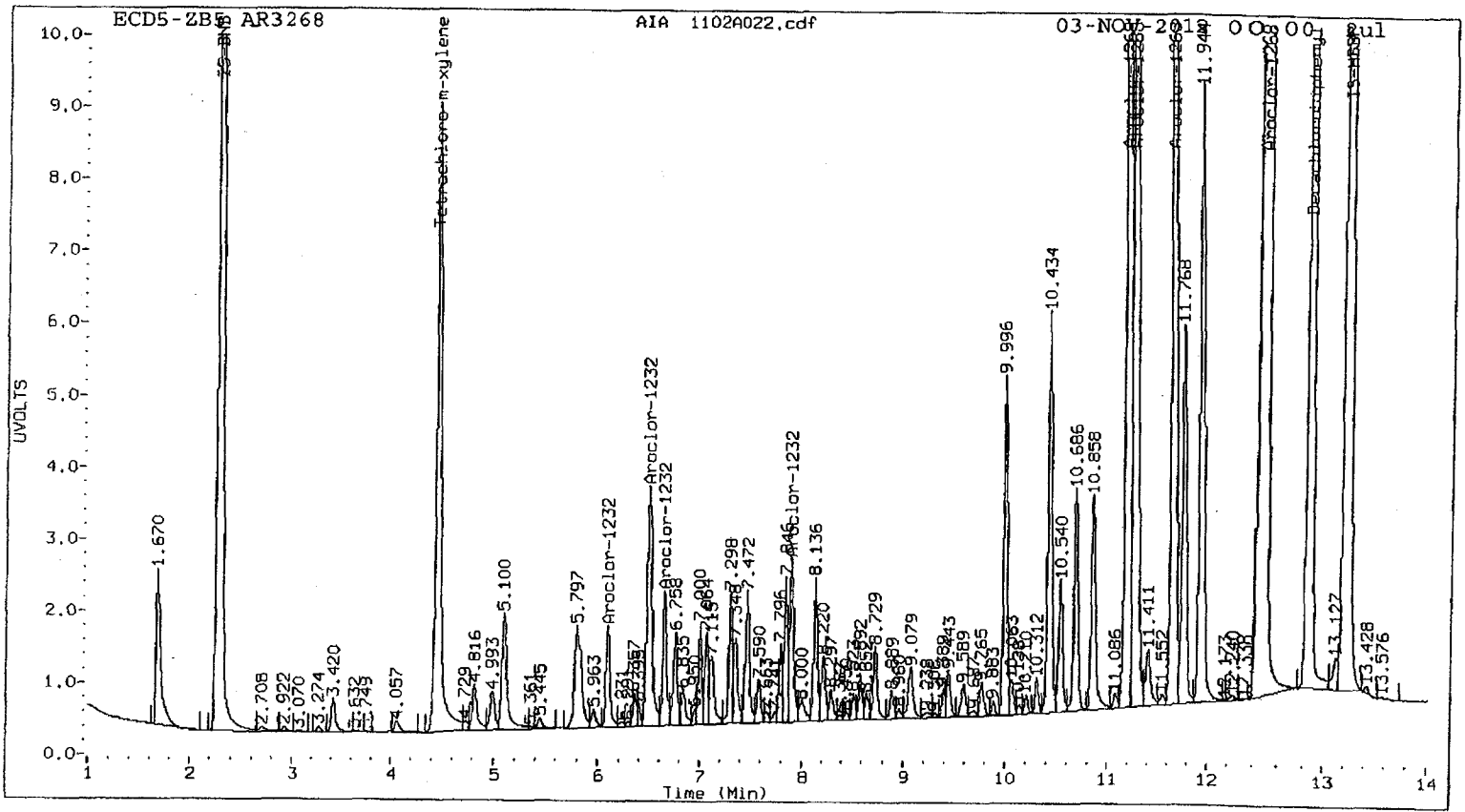
Aroclor-1268	1	11.203	0.000	29995015	250.0	1	11.547	0.000	7042487	250.0
Aroclor-1268	2	11.275	0.000	28848730	250.0	2	11.613	0.000	6848989	250.0
Aroclor-1268	3	11.661	0.000	25351576	250.0	3	12.011	0.000	5725345	250.0
Aroclor-1268	4	12.449	0.000	72450022	250.0	4	12.834	0.000	16973079	250.0
Total Col1Ave (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (4.544 - 12.755) = 261786385 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 62286369 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A023.d
Data file 2: 20121102.B/ical-2.b/1102A023.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV
Client ID:
Injection Date: 03-NOV-2012 00:20
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.445	0.001	13940705	4.455	-0.001	4345658	20.7	21.1	1.9	Tetrachloro-m-xylene
12.856	0.002	19831335	13.249	0.001	4223731	18.6	19.6	5.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.7	52.7
Decachlorobiphenyl	46.4	49.1

Handwritten signature and date: 11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	32275358	3.3
Hexabromobiphenyl	64198300	69016020	7.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	14465214	-0.5
Hexabromobiphenyl	15789428	15841317	0.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col							
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.093	0.000	4280543	237.2	1	6.208	0.000	1932648	238.5		
Aroclor-1016	2	6.497	0.000	13430249	238.8	2	6.841	0.001	3973964	231.8		
Aroclor-1016	3	6.647	0.000	5787080	238.5	3	7.225	0.001	1079387	242.0		
Aroclor-1016	4	6.757	0.000	4231785	243.8	4	7.334	0.000	1173971	234.1		
Total CollAve (4 peaks):					239.6	Total Col2Ave (4 peaks):					236.5	RPD = 1
Corrected Ave (3 peaks):					238.2	Corrected Ave (3 peaks):					234.8	RPD = 1
Aroclor-1221	1	4.813	-0.004	790817	100.4	1	5.143	0.002	235889	96.3		
Aroclor-1221	2	4.992	-0.003	770925	142.9	2	5.392	-0.001	191998	133.0		
Aroclor-1221	3	5.099	-0.002	3024672	172.1	3	5.505	-0.001	868293	191.4		
Aroclor-1221	NS	---	---	---	---	4	5.573	-0.002	62612	79.9		
Total CollAve (3 peaks):					138.5	Total Col2Ave (4 peaks):					125.1	RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					103.1	
Aroclor-1232	1	6.093	0.000	4280543	582.3	1	6.208	-0.002	1932648	538.4		
Aroclor-1232	2	6.497	0.000	13430249	584.3	2	6.841	0.001	3973964	561.8		
Aroclor-1232	3	6.647	0.000	5787080	577.3	3	7.050	0.000	1691899	572.2		
Aroclor-1232	4	7.909	0.008	3815684	303.8	4	8.276	-0.001	185332	73.8		
Total CollAve (4 peaks):					511.9	Total Col2Ave (4 peaks):					436.5	RPD = 16
Corrected Ave (3 peaks):					487.8	Corrected Ave (3 peaks):					391.3	RPD = 22
Aroclor-1242	1	6.093	0.001	4280543	304.9	1	6.208	0.000	1932648	312.9		
Aroclor-1242	2	6.497	0.001	13430249	308.8	2	6.841	0.001	3973964	302.2		
Aroclor-1242	3	6.647	0.000	5787080	306.4	3	7.050	-0.001	1691899	309.7		
Aroclor-1242	4	7.909	0.009	3815684	172.3	4	8.276	0.000	185332	40.3		
Total CollAve (4 peaks):					273.1	Total Col2Ave (4 peaks):					241.3	RPD = 12
Corrected Ave (3 peaks):					261.2	Corrected Ave (3 peaks):					217.4	RPD = 18
Aroclor-1248	1	6.497	0.003	13430249	472.3	1	6.841	0.005	3973964	462.8		
Aroclor-1248	2	7.472	0.000	5898726	197.1	2	7.747	0.000	1434191	201.4		
Aroclor-1248	3	7.909	0.008	3815684	100.9	3	8.276	0.000	185332	25.2		
Aroclor-1248	4	8.142	0.006	690422	23.7	4	8.622	0.000	68725	7.6		
Total CollAve (4 peaks):					198.5	Total Col2Ave (4 peaks):					174.2	RPD = 13
Corrected Ave (3 peaks):					107.2	Corrected Ave (3 peaks):					78.0	RPD = 32
Aroclor-1254	1	8.223	0.001	3604030	93.5	1	8.341	0.000	786695	125.3		
Aroclor-1254	2	8.593	0.001	525149	20.7	2	8.515	0.000	823123	103.8		
Aroclor-1254	3	8.724	-0.004	1870068	38.0	3	9.037	0.000	135015	22.2		
Aroclor-1254	4	9.060	-0.019	11067395	205.4	4	9.228	0.041	2129113	159.3		
Aroclor-1254	5	9.390	-0.049	16407464	484.1	5	9.982	0.010	935419	116.1		
Total CollAve (5 peaks):					168.3	Total Col2Ave (5 peaks):					105.3	RPD = 46*
Corrected Ave (4 peaks):					89.4	Corrected Ave (4 peaks):					91.8	RPD = 3
Aroclor-1260	1	9.996	0.001	10639114	264.8	1	10.301	0.000	2419901	286.2		
Aroclor-1260	2	10.312	0.001	10541403	261.0	2	10.752	0.000	2796120	269.4		
Aroclor-1260	3	10.686	0.001	24556924	256.4	3	11.025	-0.001	5805269	281.1		
Aroclor-1260	4	11.086	0.001	13134466	239.3	4	11.547	0.000	1761624	283.1		
Aroclor-1260	5	11.276	0.000	7656367	287.1	NS	---	---	---	---		
Total CollAve (5 peaks):					261.8	Total Col2Ave (4 peaks):					279.9	RPD = 7
Corrected Ave (4 peaks):					255.4	Corrected Ave (3 peaks):					277.9	RPD = 8
Aroclor-1262	1	9.996	0.000	10639114	177.3	1	10.301	0.000	2419901	175.2		
Aroclor-1262	2	10.312	0.000	10541403	231.3	2	10.752	0.000	2796120	227.8		
Aroclor-1262	3	10.686	0.000	24556924	207.9	3	11.025	0.000	5805269	215.5		
Aroclor-1262	4	11.203	0.000	6344559	142.6	4	11.547	0.000	1761624	161.6		
Aroclor-1262	5	11.276	0.001	7656367	156.7	5	12.348	0.002	1694015	161.7		
Total CollAve (5 peaks):					183.1	Total Col2Ave (5 peaks):					188.4	RPD = 3
Corrected Ave (4 peaks):					171.1	Corrected Ave (4 peaks):					178.5	RPD = 4
Aroclor-1268	1	11.203	0.000	6344559	53.0	1	11.547	0.000	1761624	64.0		
Aroclor-1268	2	11.276	0.001	7656367	66.5	2	11.607	-0.006	4060621	151.8		

Aroclor-1268 3	11.677	0.016	3579548	35.4	3	12.013	0.001	64775	2.9
Aroclor-1268 4	12.449	0.000	1938966	6.7	4	12.835	0.001	356034	5.4
Total Col1Ave (4 peaks):			40.4	Total Col2Ave (4 peaks):		56.0	RPD =	32	
Corrected Ave (3 peaks):			31.7	Corrected Ave (3 peaks):		24.1	RPD =	27	

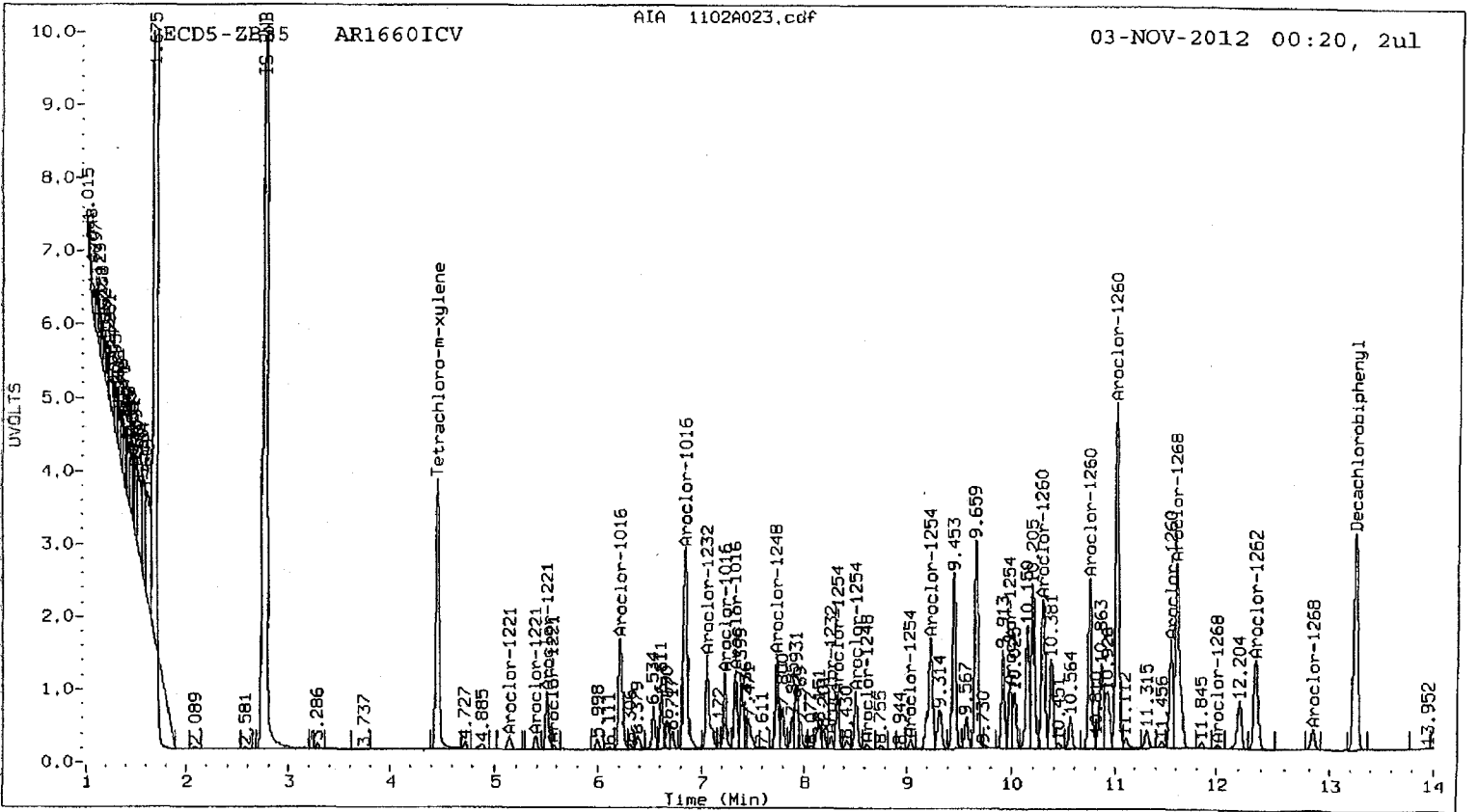
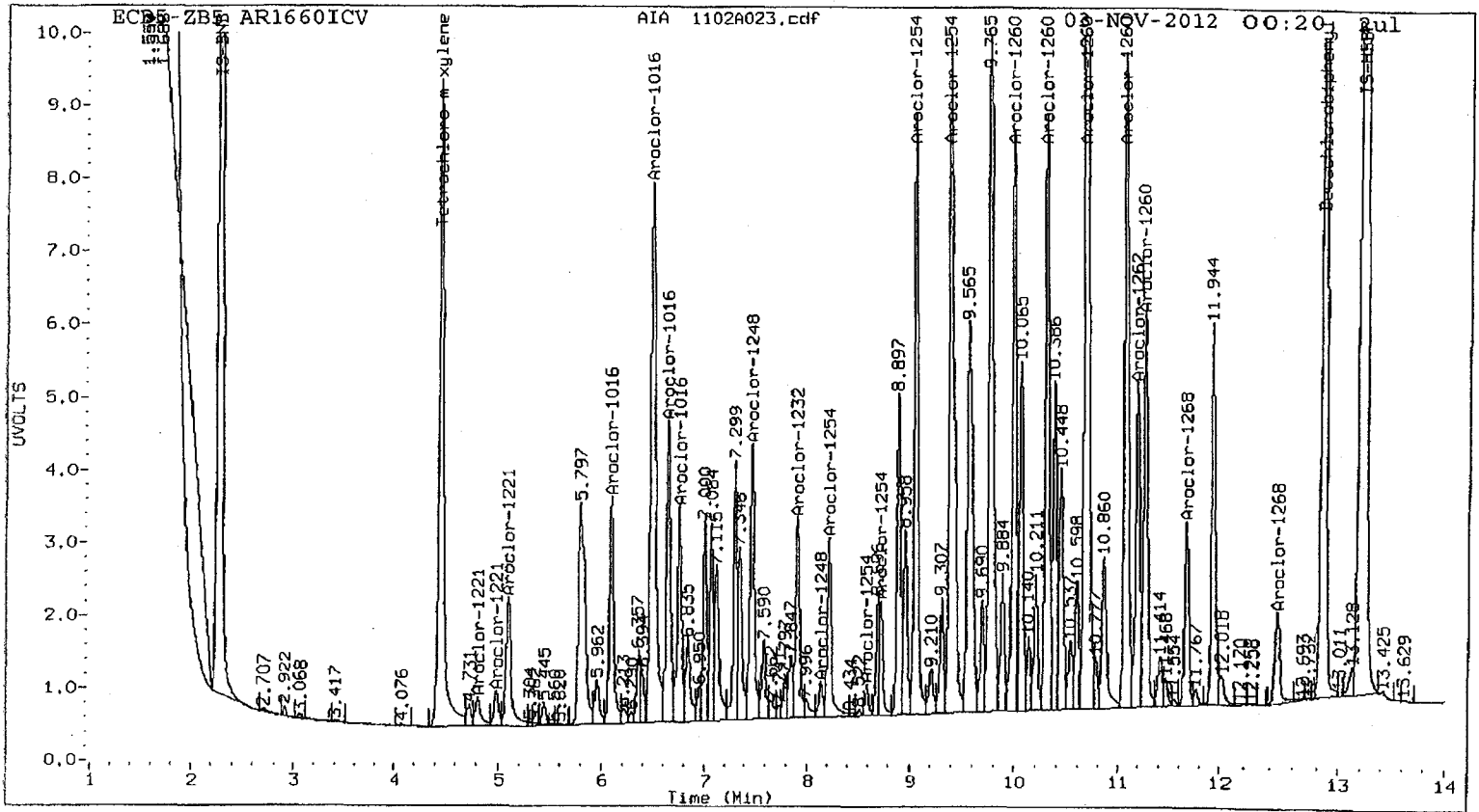
Total PCB Area Col1 (4.544 - 12.755) = 272520507 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 65457959 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01512



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A024.d
Data file 2: 20121102.B/ical-2.b/1102A024.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242ICV
Client ID:
Injection Date: 03-NOV-2012 00:41
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.447	0.002	14470649	4.456	0.000	4419887	19.8	20.7	4.3	Tetrachloro-m-xylene
12.856	0.001	20367318	13.248	0.000	4343511	18.5	19.7	6.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.5	51.7
Decachlorobiphenyl	46.3	49.3

Handwritten signature/initials

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	34992364	12.0
Hexabromobiphenyl	64198300	71027100	10.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	15000485	3.2
Hexabromobiphenyl	15789428	16204591	2.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.094	0.001	3559162	181.9	1	6.210	0.001	1574075	187.3
Aroclor-1016	2	6.498	0.000	10979379	180.1	2	6.841	0.001	3271536	184.0
Aroclor-1016	3	6.648	0.001	4799602	182.5	3	7.226	0.001	868645	187.8
Aroclor-1016	4	6.759	0.001	3458469	183.8	4	7.335	0.000	993474	191.0
Total CollAve (4 peaks):				182.1		Total Col2Ave (4 peaks):				187.5 RPD = 3
Corrected Ave (3 peaks):				181.5		Corrected Ave (3 peaks):				186.4 RPD = 3
Aroclor-1221	1	4.815	-0.002	749650	87.8	1	5.145	0.004	200259	78.8
Aroclor-1221	2	4.993	-0.002	733931	125.5	2	5.392	0.000	153470	102.5
Aroclor-1221	3	5.100	-0.001	2551914	133.9	3	5.506	0.000	702850	149.4
Aroclor-1221	NS	---	---	---	---	4	5.574	-0.001	49121	60.5
Total CollAve (3 peaks):				115.7		Total Col2Ave (4 peaks):				97.8 RPD = 17
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				80.6
Aroclor-1232	1	6.094	0.000	3559162	446.6	1	6.210	0.000	1574075	422.8
Aroclor-1232	2	6.498	0.000	10979379	440.6	2	6.841	0.001	3271536	446.0
Aroclor-1232	3	6.648	0.000	4799602	441.6	3	7.051	0.000	1369598	446.6
Aroclor-1232	4	7.901	0.000	5648735	414.8	4	8.276	0.000	1083675	416.2
Total CollAve (4 peaks):				435.9		Total Col2Ave (4 peaks):				432.9 RPD = 1
Corrected Ave (3 peaks):				432.3		Corrected Ave (3 peaks):				428.4 RPD = 1
Aroclor-1242	1	6.094	0.002	3559162	233.8	1	6.210	0.001	1574075	245.7
Aroclor-1242	2	6.498	0.001	10979379	232.8	2	6.841	0.001	3271536	239.9
Aroclor-1242	3	6.648	0.001	4799602	234.4	3	7.051	0.000	1369598	241.7
Aroclor-1242	4	7.901	0.002	5648735	235.2	4	8.276	0.000	1083675	227.1
Total CollAve (4 peaks):				234.1		Total Col2Ave (4 peaks):				238.6 RPD = 2
Corrected Ave (3 peaks):				233.7		Corrected Ave (3 peaks):				236.2 RPD = 1
Aroclor-1248	1	6.498	0.003	10979379	356.2	1	6.841	0.005	3271536	367.4
Aroclor-1248	2	7.473	0.000	5112547	157.5	2	7.747	0.001	1268707	171.8
Aroclor-1248	3	7.901	0.000	5648735	137.8	3	8.276	0.001	1083675	142.0
Aroclor-1248	4	8.137	0.001	4569738	144.7	4	8.623	0.001	1343107	142.3
Total CollAve (4 peaks):				199.0		Total Col2Ave (4 peaks):				205.9 RPD = 3
Corrected Ave (3 peaks):				146.7		Corrected Ave (3 peaks):				152.0 RPD = 4
Aroclor-1254	1	8.221	-0.001	2582031	61.8	1	8.341	0.000	364106	55.9
Aroclor-1254	2	8.593	0.000	1658279	80.4	2	8.515	-0.001	388226	47.2
Aroclor-1254	3	8.729	0.001	2804595	52.5	3	9.037	0.000	373411	59.1
Aroclor-1254	4	9.082	0.004	2388367	40.9	4	9.187	0.000	650516	46.9
Aroclor-1254	5	9.444	0.005	1884135	51.3	5	9.968	-0.005	427656	51.2
Total CollAve (5 peaks):				53.4		Total Col2Ave (5 peaks):				52.1 RPD = 2
Corrected Ave (4 peaks):				51.3		Corrected Ave (4 peaks):				50.3 RPD = 2
Aroclor-1260	1	9.995	-0.001	118205	2.9	1	10.301	-0.001	16952	2.0
Aroclor-1260	2	10.313	0.002	88814	2.1	2	10.747	-0.005	90847	8.6
Aroclor-1260	3	10.686	0.001	211099	2.1	3	11.025	0.000	54689	2.6
Aroclor-1260	4	11.085	0.000	194214	3.4	4	11.547	0.000	19981	3.1
Aroclor-1260	5	11.276	0.001	47651	1.7	NS	---	---	---	---
Total CollAve (5 peaks):				2.5		Total Col2Ave (4 peaks):				4.1 RPD = 49*
Corrected Ave (4 peaks):				2.2		Corrected Ave (3 peaks):				2.6 RPD = 14
Aroclor-1262	1	9.995	-0.002	118205	1.9	1	10.301	-0.001	16952	1.2
Aroclor-1262	2	10.313	0.001	88814	1.9	2	10.747	-0.006	90847	7.2
Aroclor-1262	3	10.686	-0.001	211099	1.7	3	11.025	0.000	54689	2.0
Aroclor-1262	4	11.202	0.000	56174	1.2	4	11.547	0.001	19981	1.8
Aroclor-1262	5	11.276	0.001	47651	0.9	5	12.385	0.039	37016	3.5
Total CollAve (5 peaks):				1.5		Total Col2Ave (5 peaks):				3.1 RPD = 68*
Corrected Ave (4 peaks):				1.5		Corrected Ave (4 peaks):				2.1 RPD = 37
Aroclor-1268	1	11.202	0.000	56174	0.5	1	11.547	0.000	19981	0.7
Aroclor-1268	2	11.276	0.001	47651	0.4	2	11.606	-0.007	37684	1.4

Aroclor-1268 3	11.664	0.003	58198	0.6	3	---			0.0
Aroclor-1268 4	12.446	-0.003	116207	0.4	4	12.832	-0.002	12333	0.2
Total CollAve (4 peaks):			0.5			Total Col2Ave (3 peaks):		0.8	RPD = 50*
Corrected Ave (3 peaks):			0.4			Corrected Ave: < 3 Peaks			

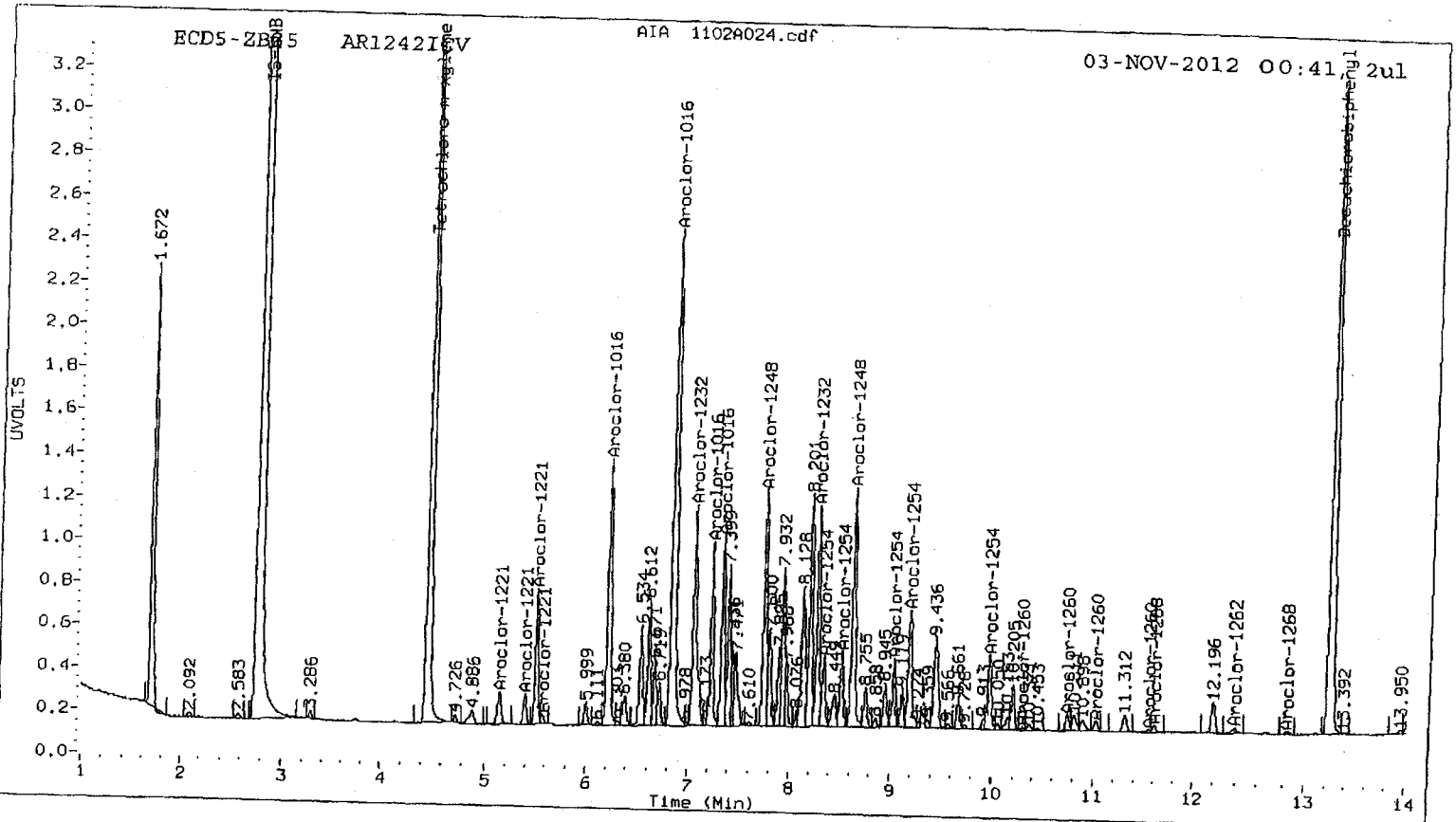
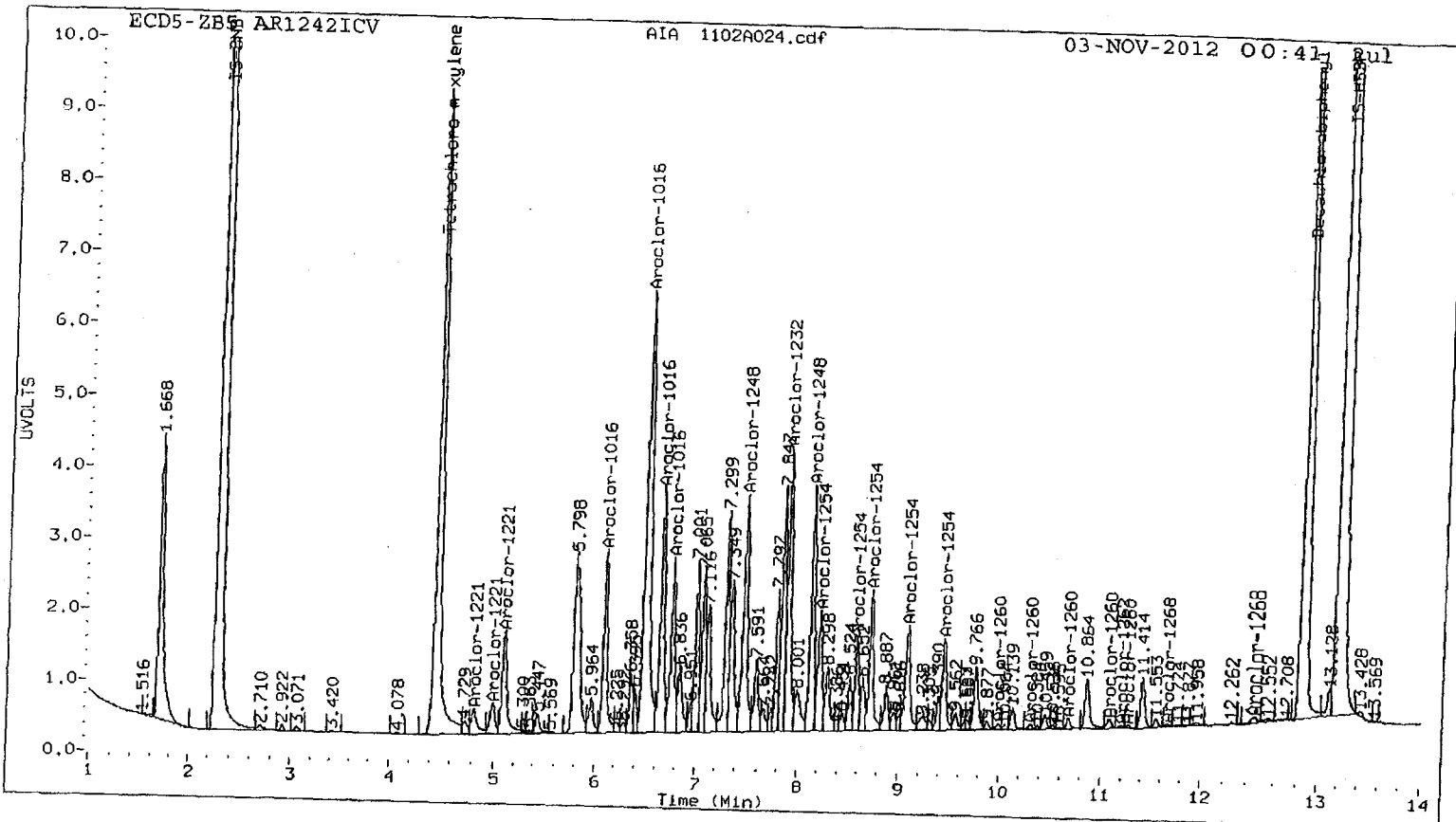
Total PCB Area Col1 (4.544 - 12.755) = 102808218 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 25713682 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82:01517



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A025.d
Data file 2: 20121102.B/ical-2.b/1102A025.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248ICV
Client ID:
Injection Date: 03-NOV-2012 01:01
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.446	0.001 14009082	4.455	-0.001 4264845	19.9	21.0	5.2	Tetrachloro-m-xylene
12.855	0.000 19906077	13.248	0.000 4209767	18.6	19.8	6.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.7	52.4
Decachlorobiphenyl	46.5	49.4

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	33719935	7.9
Hexabromobiphenyl	64198300	69100267	7.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	14278309	-1.8
Hexabromobiphenyl	15789428	15675954	-0.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.094	0.001	1753905	93.0	1	6.207	-0.001	829143	103.7
Aroclor-1016	2	6.495	-0.002	7350284	125.1	2	6.837	-0.003	2183705	129.0
Aroclor-1016	3	6.650	0.003	2872827	113.3	3	7.226	0.001	478562	108.7
Aroclor-1016	4	6.758	0.000	2110055	116.4	4	7.334	0.000	1512423	305.5
Total CollAve (4 peaks):				112.0		Total Col2Ave (4 peaks):				161.7 RPD = 36
Corrected Ave (3 peaks):				107.6		Corrected Ave (3 peaks):				113.8 RPD = 6
Aroclor-1221	1	4.812	-0.004	357677	43.5	1	5.153	0.011	77900	32.2
Aroclor-1221	2	4.981	-0.013	372195	66.0	2	5.393	0.000	30242	21.2
Aroclor-1221	3	5.099	-0.002	676136	36.8	3	5.506	0.000	160480	35.8
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0
Total CollAve (3 peaks):				48.8		Total Col2Ave (3 peaks):				29.8 RPD = 48*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	6.094	0.000	1753905	228.4	1	6.207	-0.003	829143	234.0
Aroclor-1232	2	6.495	-0.002	7350284	306.1	2	6.837	-0.003	2183705	312.8
Aroclor-1232	3	6.650	0.003	2872827	274.3	3	7.050	0.000	562917	192.9
Aroclor-1232	4	7.902	0.001	9041242	688.9	4	8.276	-0.001	1694183	683.6
Total CollAve (4 peaks):				374.4		Total Col2Ave (4 peaks):				355.8 RPD = 5
Corrected Ave (3 peaks):				269.6		Corrected Ave (3 peaks):				246.5 RPD = 9
Aroclor-1242	1	6.094	0.001	1753905	119.6	1	6.207	-0.001	829143	136.0
Aroclor-1242	2	6.495	-0.001	7350284	161.8	2	6.837	-0.003	2183705	168.3
Aroclor-1242	3	6.650	0.003	2872827	145.6	3	7.050	0.000	562917	104.4
Aroclor-1242	4	7.902	0.003	9041242	390.7	4	8.276	0.000	1694183	372.9
Total CollAve (4 peaks):				204.4		Total Col2Ave (4 peaks):				195.4 RPD = 5
Corrected Ave (3 peaks):				142.3		Corrected Ave (3 peaks):				136.2 RPD = 4
Aroclor-1248	1	6.495	0.001	7350284	247.4	1	6.837	0.001	2183705	257.7
Aroclor-1248	2	7.473	0.000	7164021	229.1	2	7.747	0.000	1715400	244.0
Aroclor-1248	3	7.902	0.001	9041242	228.9	3	8.276	0.000	1694183	233.3
Aroclor-1248	4	8.137	0.001	6887213	226.2	4	8.623	0.000	2108996	234.7
Total CollAve (4 peaks):				232.9		Total Col2Ave (4 peaks):				242.4 RPD = 4
Corrected Ave (3 peaks):				228.1		Corrected Ave (3 peaks):				237.3 RPD = 4
Aroclor-1254	1	8.220	-0.002	4701389	116.8	1	8.341	0.000	678148	109.4
Aroclor-1254	2	8.593	0.001	3121411	117.9	2	8.516	0.001	697164	89.0
Aroclor-1254	3	8.729	0.001	5220225	101.5	3	9.038	0.000	714380	118.8
Aroclor-1254	4	9.083	0.005	4034514	71.7	4	9.188	0.001	1199452	90.9
Aroclor-1254	5	9.445	0.007	3606329	101.9	5	9.967	-0.005	826446	104.0
Total CollAve (5 peaks):				101.9		Total Col2Ave (5 peaks):				102.4 RPD = 0
Corrected Ave (4 peaks):				97.9		Corrected Ave (4 peaks):				98.3 RPD = 0
Aroclor-1260	1	9.995	0.000	251090	6.2	1	10.303	0.001	38657	4.6
Aroclor-1260	2	10.313	0.002	171073	4.2	2	10.748	-0.004	105599	10.3
Aroclor-1260	3	10.686	0.001	368199	3.8	3	11.025	0.000	86914	4.3
Aroclor-1260	4	11.085	0.001	179624	3.3	4	11.548	0.000	39361	6.4
Aroclor-1260	5	11.275	0.000	144632	5.4	NS	---	---	---	---
Total CollAve (5 peaks):				4.6		Total Col2Ave (4 peaks):				6.4 RPD = 33
Corrected Ave (4 peaks):				4.2		Corrected Ave (3 peaks):				5.1 RPD = 19
Aroclor-1262	1	9.995	-0.001	251090	4.2	1	10.303	0.001	38657	2.8
Aroclor-1262	2	10.313	0.000	171073	3.7	2	10.748	-0.005	105599	8.7
Aroclor-1262	3	10.686	-0.001	368199	3.1	3	11.025	0.001	86914	3.3
Aroclor-1262	4	11.203	0.001	145388	3.3	4	11.548	0.001	39361	3.6
Aroclor-1262	5	11.275	0.000	144632	3.0	5	12.381	0.035	54712	5.3
Total CollAve (5 peaks):				3.5		Total Col2Ave (5 peaks):				4.7 RPD = 31
Corrected Ave (4 peaks):				3.3		Corrected Ave (4 peaks):				3.8 RPD = 14
Aroclor-1268	1	11.203	0.000	145388	1.2	1	11.548	0.000	39361	1.4
Aroclor-1268	2	11.275	0.000	144632	1.3	2	11.608	-0.005	56919	2.1

Aroclor-1268 3	11.674	0.013	92708	0.9	3	---		0.0	
Aroclor-1268 4	12.446	-0.003	125978	0.4	4	12.832	-0.002	14621	0.2
Total Col1Ave (4 peaks):			1.0	Total Col2Ave (3 peaks):			1.3	RPD = 29	
Corrected Ave (3 peaks):			0.9	Corrected Ave:			< 3 Peaks		

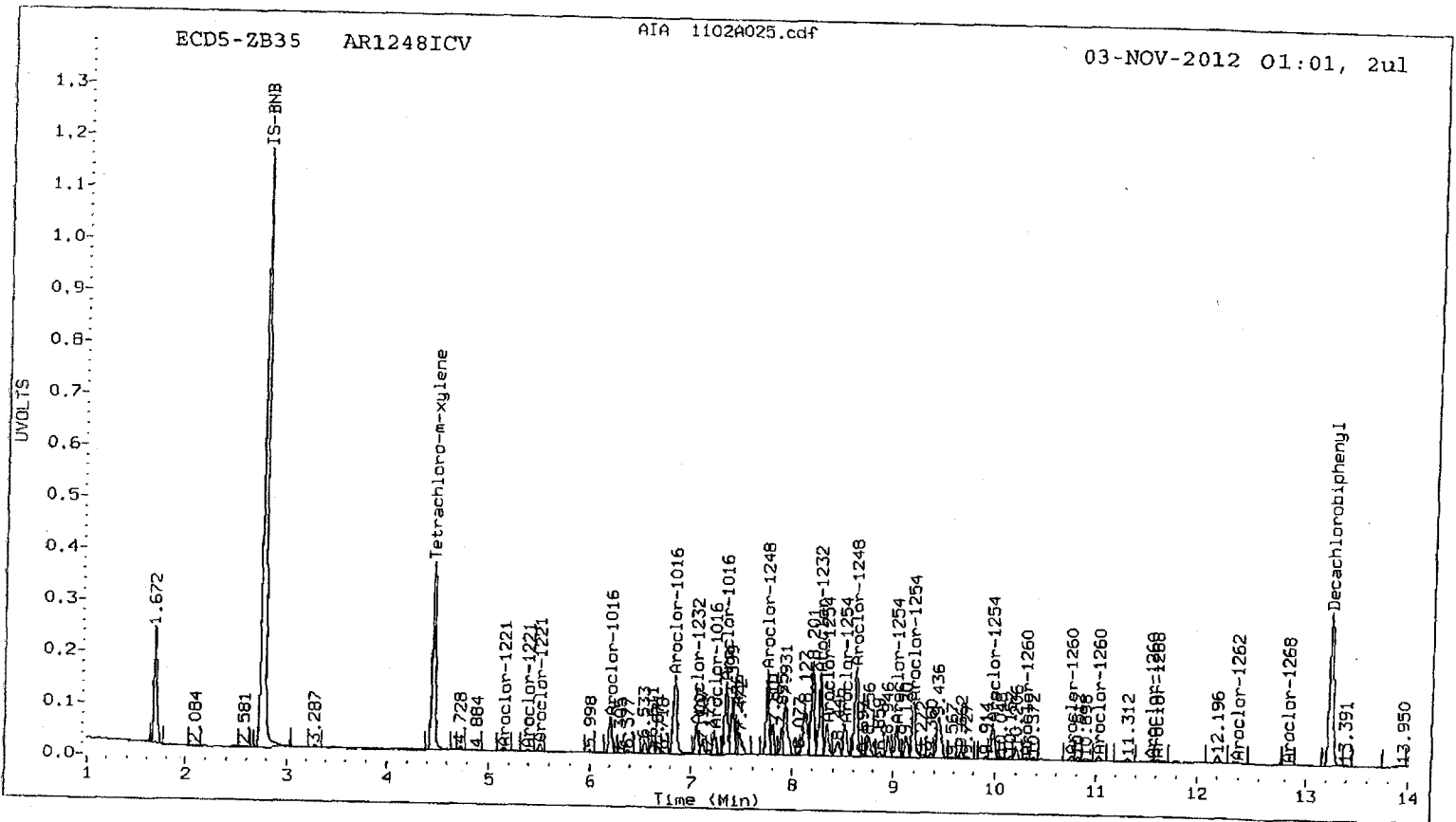
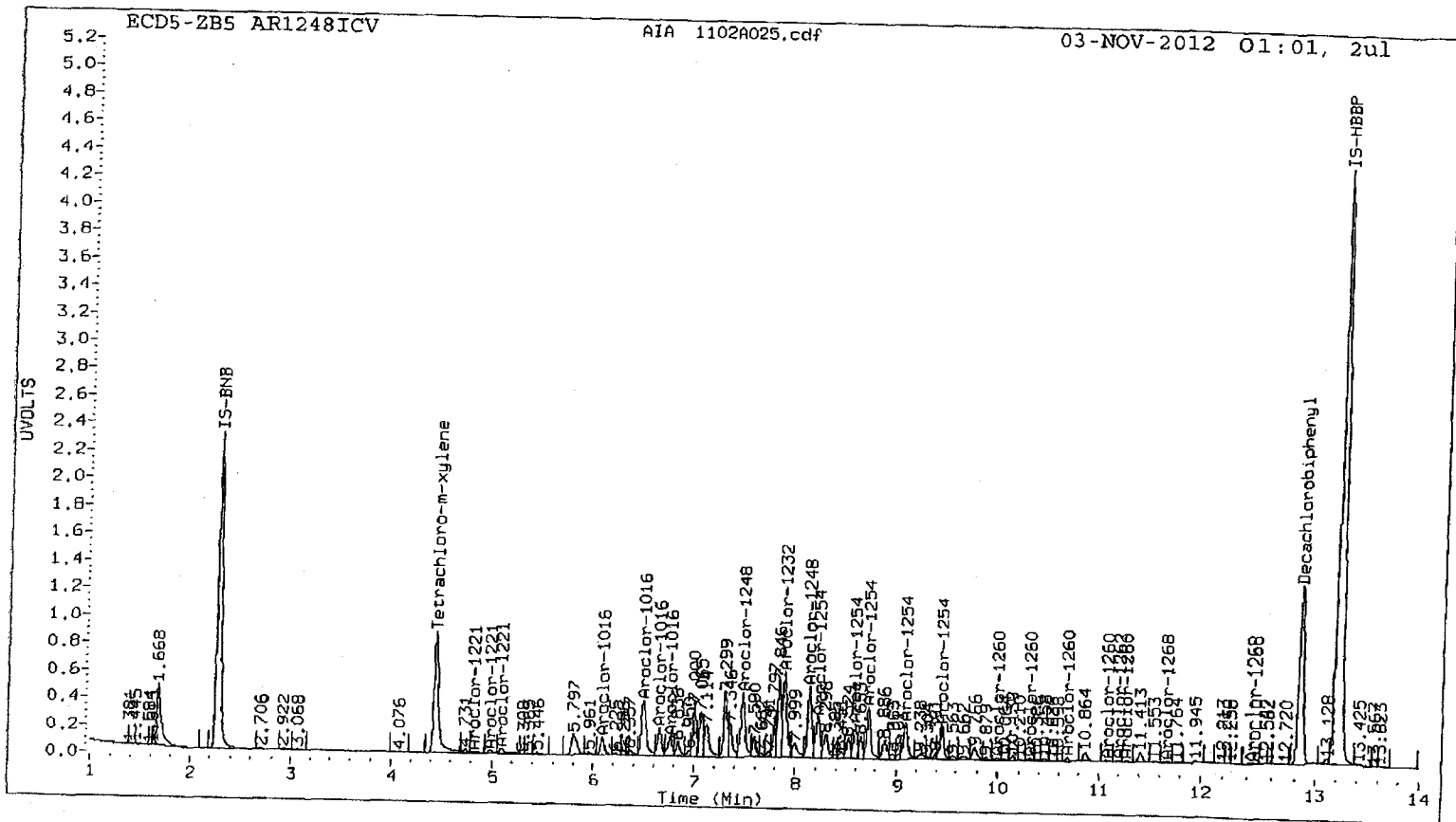
Total PCB Area Col1 (4.544 - 12.755) = 120967349 Col1 Total PCB = 0.2 ppm*

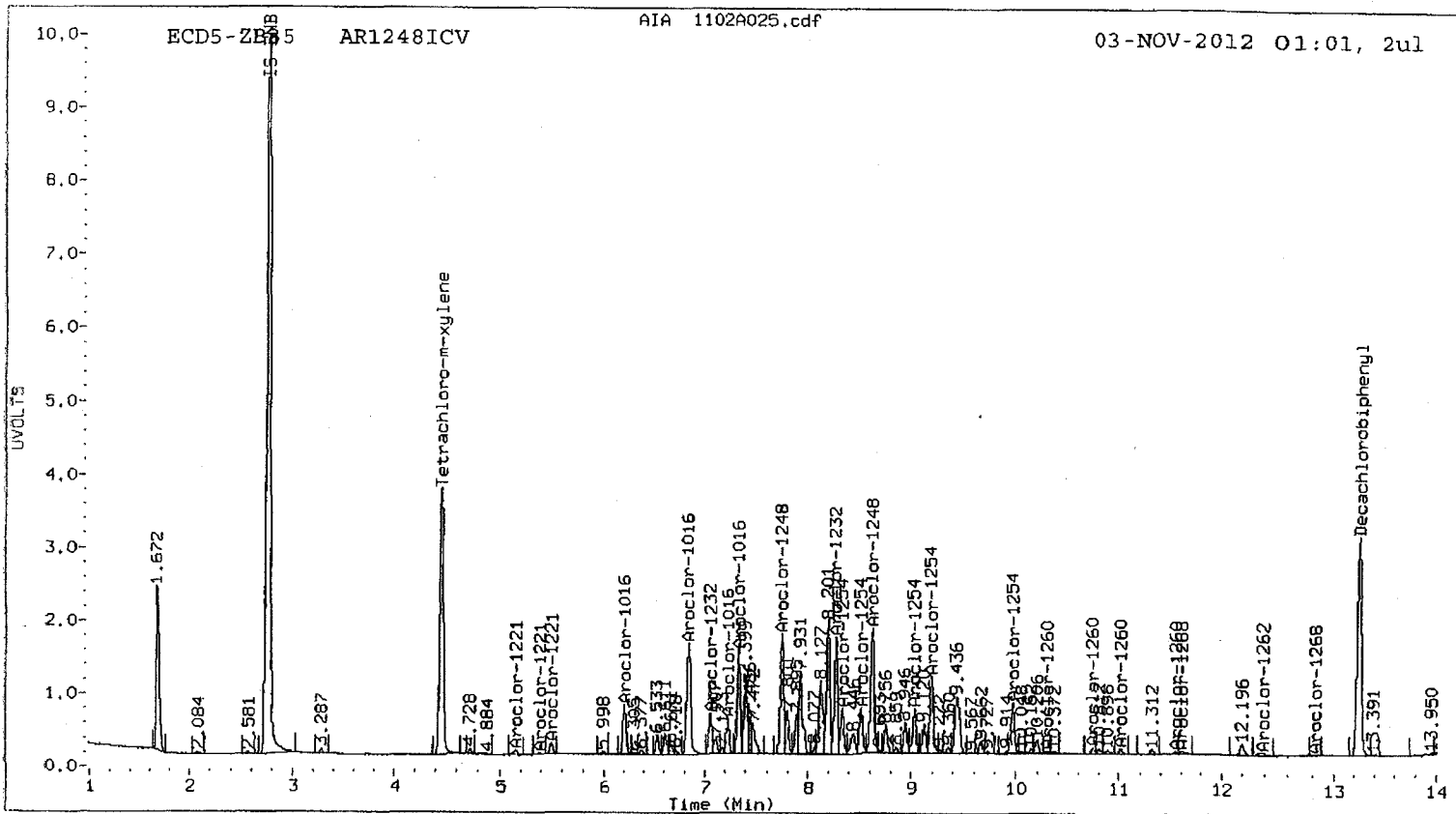
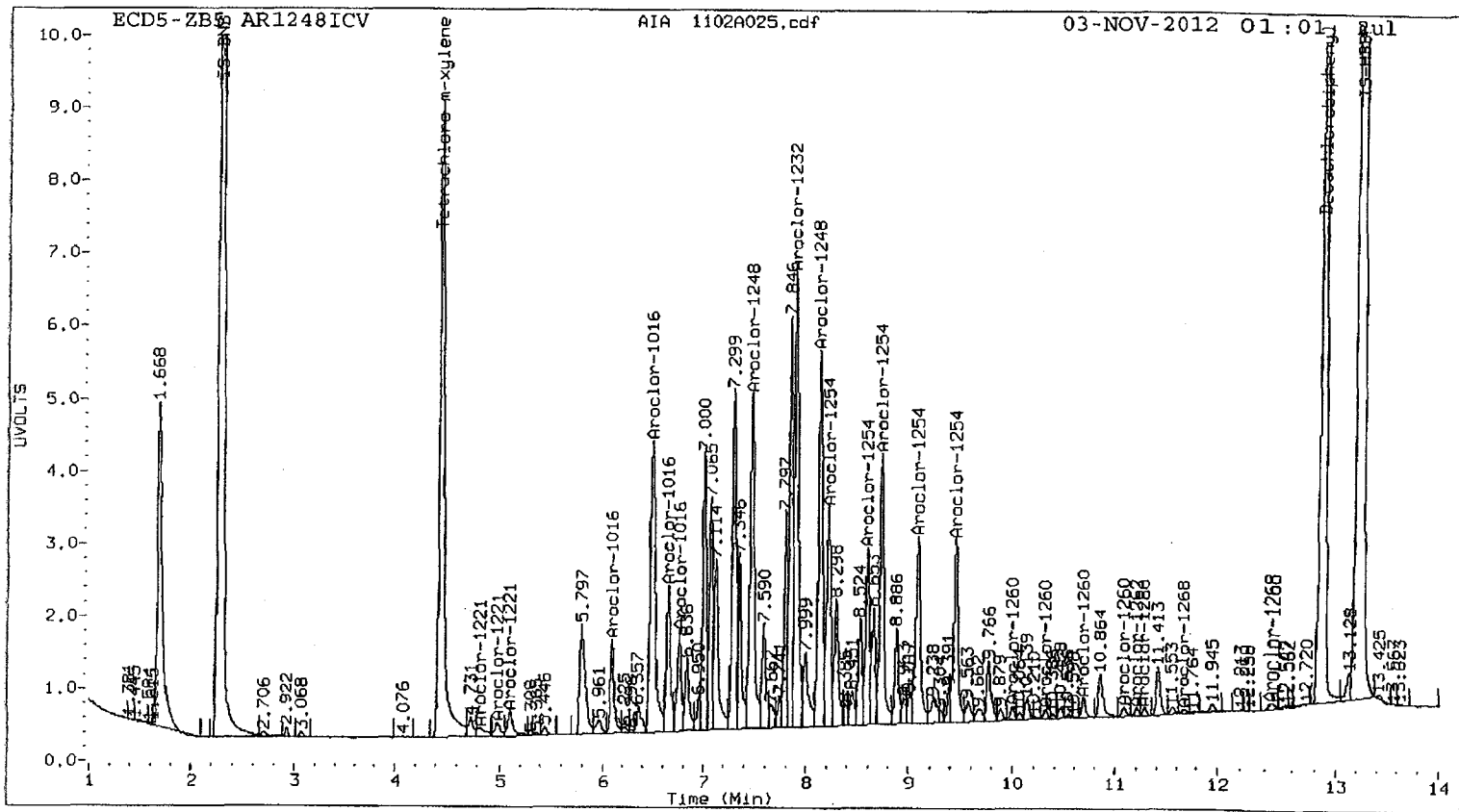
Total PCB Area Col2 (4.556 - 13.148) = 29384732 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01522





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A026.d
Data file 2: 20121102.B/ical-2.b/1102A026.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV
Client ID:
Injection Date: 03-NOV-2012 01:21
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.446	0.002 14015902	4.456	0.000 4327461	19.6	20.8	6.0	Tetrachloro-m-xylene
12.855	0.000 20342130	13.248	0.000 4314093	18.7	19.9	6.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.0	52.0
Decachlorobiphenyl	46.7	49.9

pc 11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	34274216	9.7
Hexabromobiphenyl	64198300	70290566	9.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	14593306	0.4
Hexabromobiphenyl	15789428	15921593	0.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.094	0.001	68143	3.6	1	6.210	0.001	32190	3.9	
Aroclor-1016	2	6.492	-0.006	312233	5.2	2	6.835	-0.005	96451	5.6	
Aroclor-1016	3	6.654	0.008	168555	6.5	3	7.227	0.002	17081	3.8	
Aroclor-1016	4	6.758	0.001	73666	4.0	4	7.333	-0.001	1035217	204.6	
Total CollAve (4 peaks):				4.8	Total Col2Ave (4 peaks):				54.5	RPD = 167*	
Corrected Ave (3 peaks):				4.3	Corrected Ave (3 peaks):				4.4	RPD = 4	
Aroclor-1221	1	4.731	-0.086	668106	79.9	1	5.158	0.017	56435	22.8	
Aroclor-1221	2	4.978	-0.017	316182	55.2	2	---	---	---	0.0	
Aroclor-1221	3	5.100	-0.001	170791	9.2	3	5.509	0.003	20495	4.5	
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0	
Total CollAve (3 peaks):				48.1	Col2Ave: <3 Quant Peaks						
Aroclor-1232	1	6.094	0.001	68143	8.7	1	6.210	0.000	32190	8.9	
Aroclor-1232	2	6.492	-0.005	312233	12.8	2	6.835	-0.005	96451	13.5	
Aroclor-1232	3	6.654	0.007	168555	15.8	3	7.052	0.002	22880	7.7	
Aroclor-1232	4	7.910	0.009	8182055	613.4	4	8.276	0.000	347282	137.1	
Total CollAve (4 peaks):				162.7	Total Col2Ave (4 peaks):				41.8	RPD = 118*	
Corrected Ave (3 peaks):				12.5	Corrected Ave (3 peaks):				10.0	RPD = 22	
Aroclor-1242	1	6.094	0.002	68143	4.6	1	6.210	0.002	32190	5.2	
Aroclor-1242	2	6.492	-0.005	312233	6.8	2	6.835	-0.005	96451	7.3	
Aroclor-1242	3	6.654	0.008	168555	8.4	3	7.052	0.001	22880	4.2	
Aroclor-1242	4	7.910	0.010	8182055	347.9	4	8.276	0.000	347282	74.8	
Total CollAve (4 peaks):				91.9	Total Col2Ave (4 peaks):				22.8	RPD = 120*	
Corrected Ave (3 peaks):				6.6	Corrected Ave (3 peaks):				5.5	RPD = 17	
Aroclor-1248	1	6.492	-0.002	312233	10.3	1	6.835	-0.001	96451	11.1	
Aroclor-1248	2	7.473	0.001	1195479	37.6	2	7.748	0.002	622359	86.6	
Aroclor-1248	3	7.910	0.009	8182055	203.8	3	8.276	0.001	347282	46.8	
Aroclor-1248	4	8.143	0.007	2765782	89.4	4	8.609	-0.013	1207729	131.5	
Total CollAve (4 peaks):				85.3	Total Col2Ave (4 peaks):				69.0	RPD = 21	
Corrected Ave (3 peaks):				45.8	Corrected Ave (3 peaks):				48.2	RPD = 5	
Aroclor-1254	1	8.222	0.000	11350739	277.4	1	8.341	0.000	1788794	282.3	
Aroclor-1254	2	8.593	0.001	7753435	288.2	2	8.515	0.000	2302071	287.6	
Aroclor-1254	3	8.729	0.001	14367869	274.8	3	9.038	0.001	1844022	299.9	
Aroclor-1254	4	9.079	0.001	16236514	283.7	4	9.188	0.001	3803344	282.0	
Aroclor-1254	5	9.440	0.001	10433548	289.9	5	9.973	0.000	2434983	299.7	
Total CollAve (5 peaks):				282.8	Total Col2Ave (5 peaks):				290.1	RPD = 3	
Corrected Ave (4 peaks):				281.0	Corrected Ave (4 peaks):				287.9	RPD = 2	
Aroclor-1260	1	9.995	0.000	1243711	30.4	1	10.302	0.000	192716	22.7	
Aroclor-1260	2	10.313	0.002	1181297	28.7	2	10.746	-0.006	1125472	107.9	
Aroclor-1260	3	10.687	0.001	2417318	24.8	3	11.026	0.000	651482	31.4	
Aroclor-1260	4	11.086	0.001	2240956	40.1	4	11.548	0.001	126059	20.2	
Aroclor-1260	5	11.275	0.000	345302	12.7	NS	---	---	---	---	
Total CollAve (5 peaks):				27.3	Total Col2Ave (4 peaks):				45.5	RPD = 50*	
Corrected Ave (4 peaks):				24.2	Corrected Ave (3 peaks):				24.7	RPD = 2	
Aroclor-1262	1	9.995	-0.001	1243711	20.3	1	10.302	0.000	192716	13.9	
Aroclor-1262	2	10.313	0.001	1181297	25.5	2	10.746	-0.006	1125472	91.2	
Aroclor-1262	3	10.687	0.000	2417318	20.1	3	11.026	0.001	651482	24.1	
Aroclor-1262	4	11.202	0.000	346639	7.6	4	11.548	0.001	126059	11.5	
Aroclor-1262	5	11.275	0.000	345302	6.9	5	12.350	0.003	77649	7.4	
Total CollAve (5 peaks):				16.1	Total Col2Ave (5 peaks):				29.6	RPD = 59*	
Corrected Ave (4 peaks):				13.8	Corrected Ave (4 peaks):				14.2	RPD = 3	
Aroclor-1268	1	11.202	-0.001	346639	2.8	1	11.548	0.001	126059	4.6	
Aroclor-1268	2	11.275	0.000	345302	2.9	2	11.606	-0.007	479959	17.8	
Aroclor-1268	3	11.666	0.005	234454	2.3	3	12.012	0.001	29535	1.3	

Aroclor-1268 4	12.447	-0.001	502277	1.7	4	12.833	-0.001	82112	1.2
Total Col1Ave (4 peaks):			2.4	Total Col2Ave (4 peaks):				6.2	RPD = 87*
Corrected Ave (3 peaks):			2.3	Corrected Ave (3 peaks):				2.4	RPD = 4

Total PCB Area Col1 (4.544 - 12.755) = 164382250

Col1 Total PCB = 0.3 ppm*

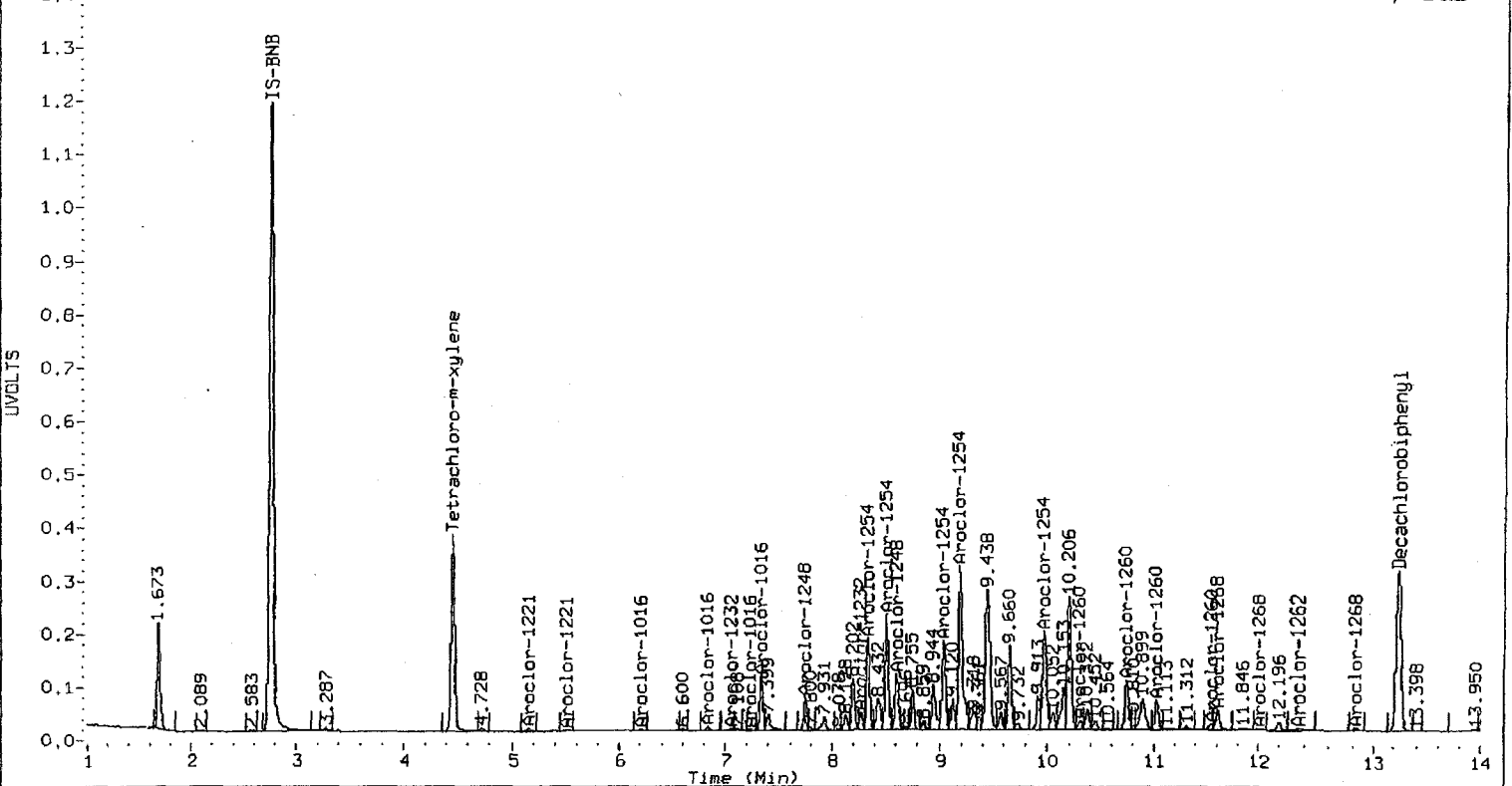
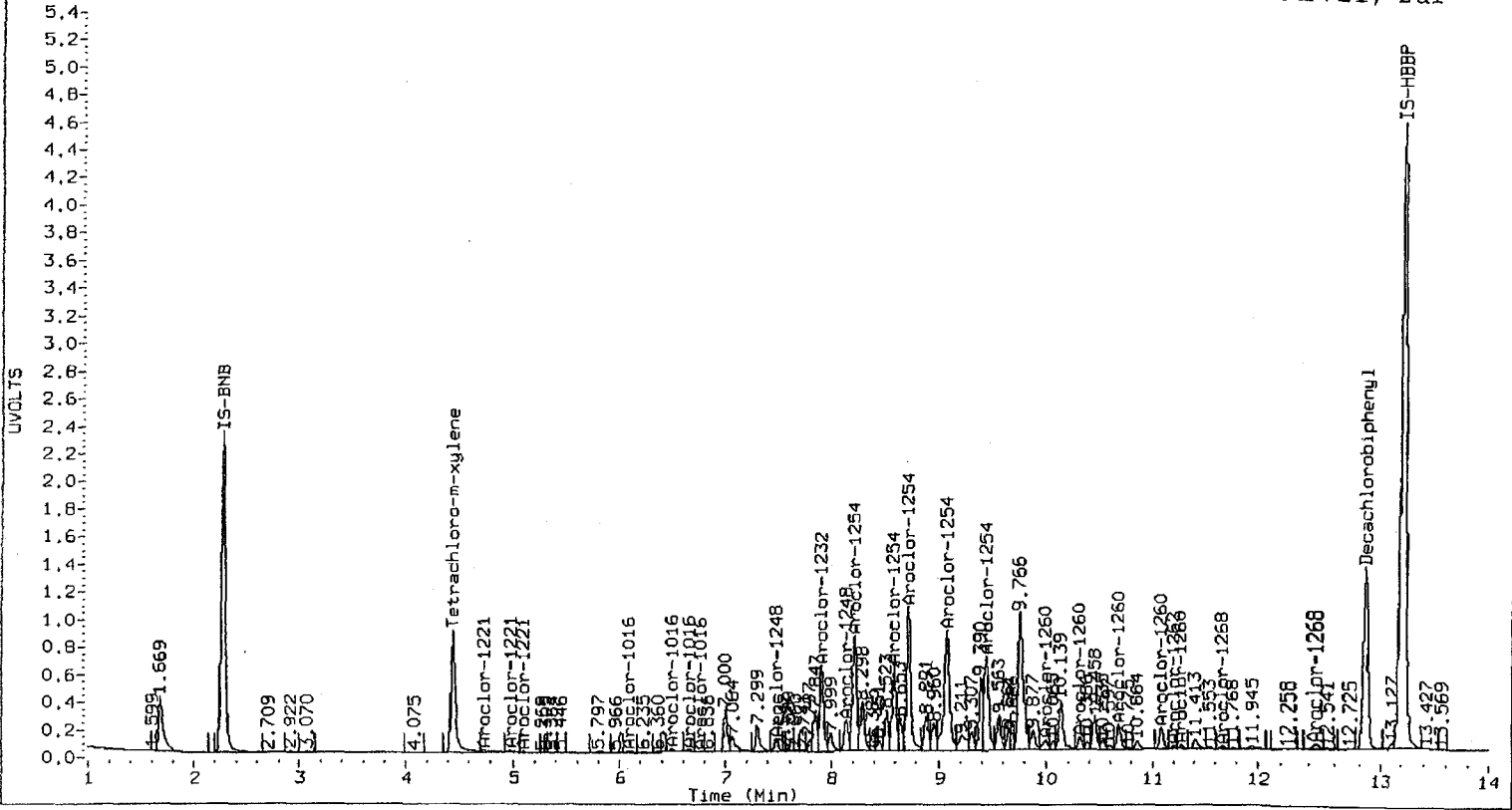
Total PCB Area Col2 (4.556 - 13.148) = 38240804

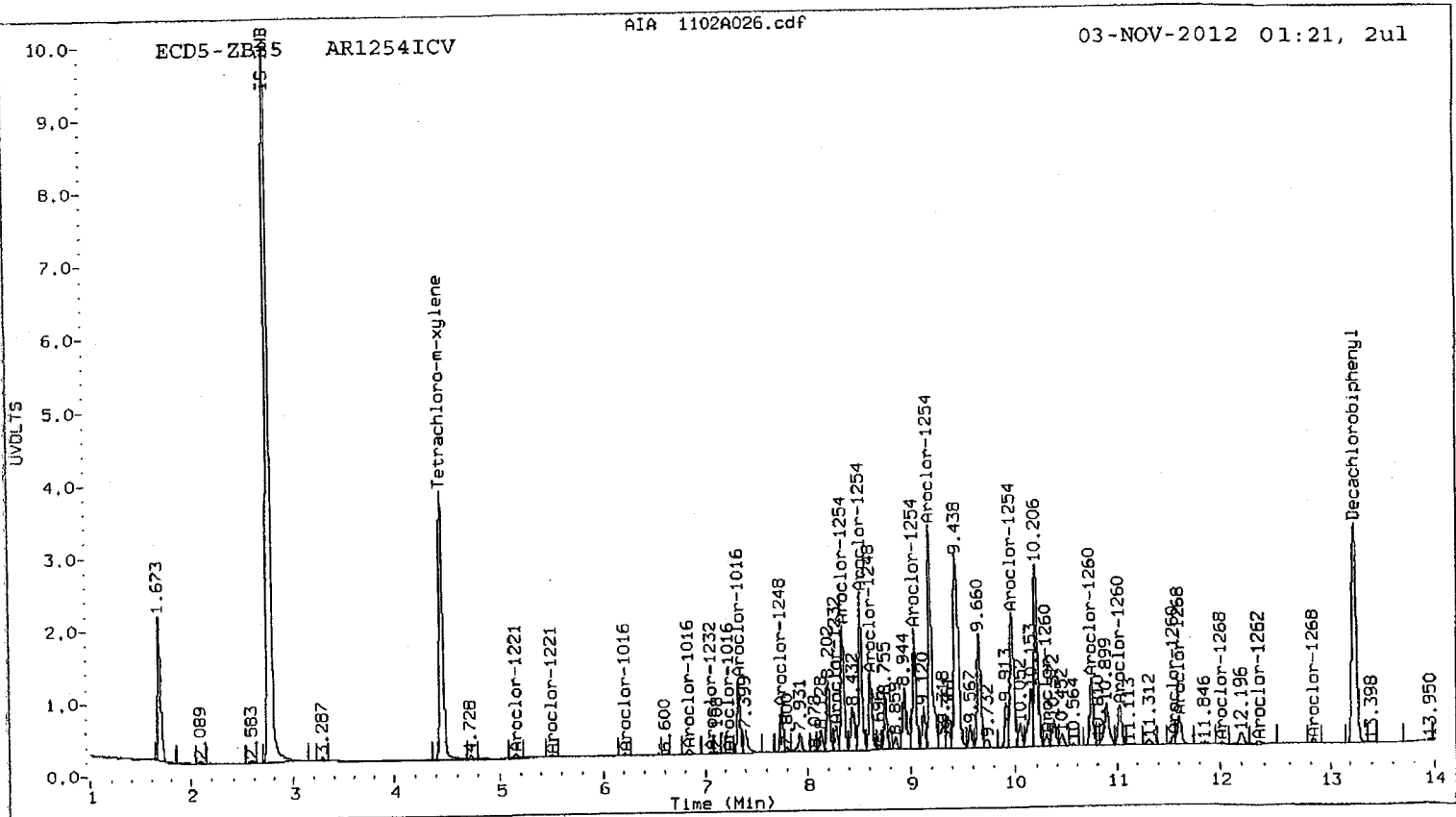
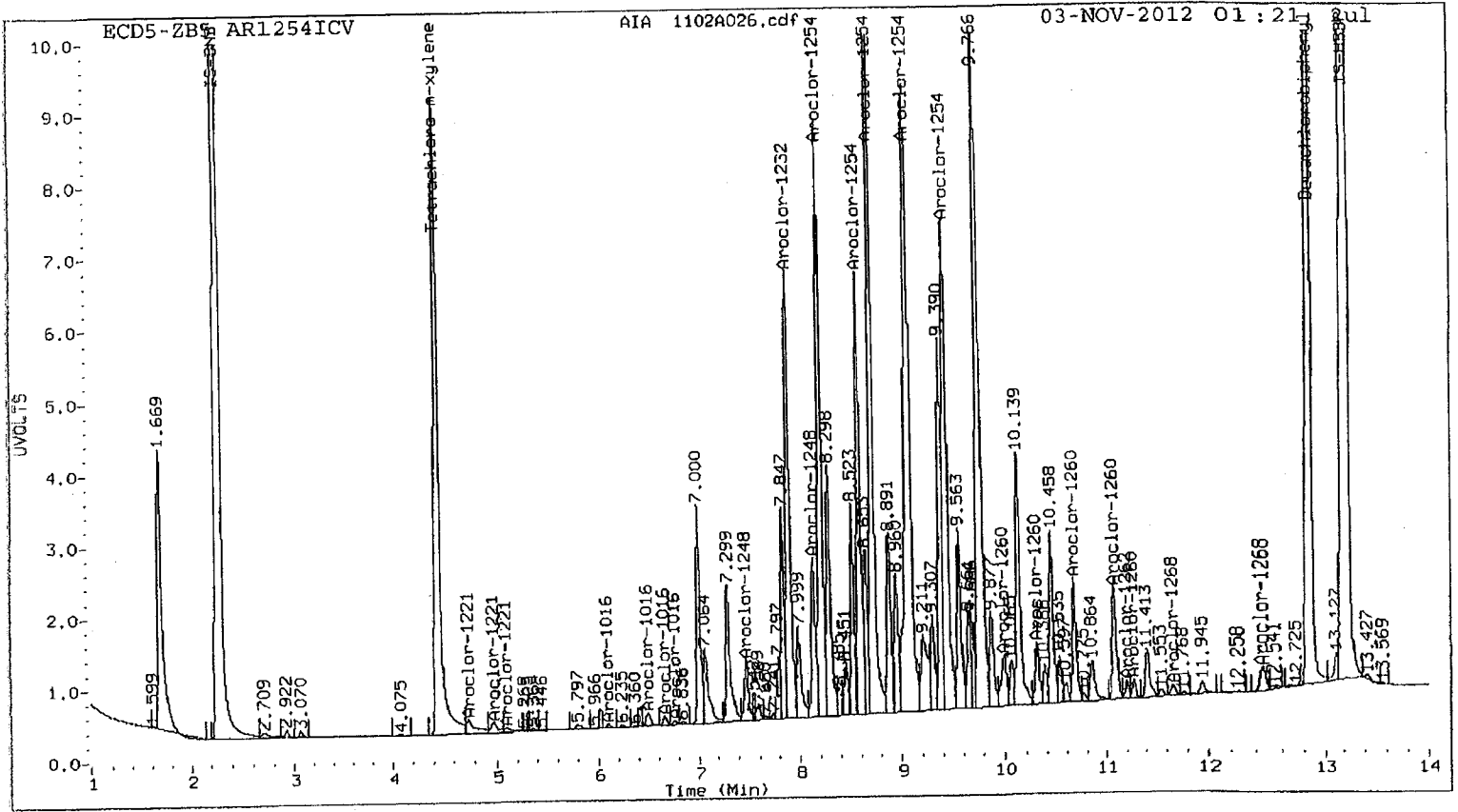
Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01527





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A027.d
Data file 2: 20121102.B/ical-2.b/1102A027.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162ICV
Client ID:
Injection Date: 03-NOV-2012 01:42
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.444	0.000	14265334	4.454	-0.001	4249414	20.4	21.3	4.3	Tetrachloro-m-xylene
12.855	0.000	19775640	13.248	0.000	4157722	18.4	19.6	6.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.9	53.2
Decachlorobiphenyl	46.1	48.9

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	33531129	7.3
Hexabromobiphenyl	64198300	69260863	7.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	14012549	-3.6
Hexabromobiphenyl	15789428	15630049	-1.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.093	0.000	458282	24.4	1	6.222	0.013	358740	45.7	
Aroclor-1016	2	6.498	0.001	1122858	19.2	2	6.841	0.001	321991	19.4	
Aroclor-1016	3	6.647	0.000	531736	21.1	3	7.226	0.001	89719	20.8	
Aroclor-1016	4	6.759	0.001	354097	19.6	4	7.334	-0.001	82674	17.0	
Total CollAve (4 peaks):				21.1	Total Col2Ave (4 peaks):				25.7	RPD = 20	
Corrected Ave (3 peaks):				20.0	Corrected Ave (3 peaks):				19.1	RPD = 5	
Aroclor-1221	1	4.815	-0.002	2060583	251.8	1	5.140	-0.001	606516	255.5	
Aroclor-1221	2	4.993	-0.002	1397991	249.4	2	5.392	-0.001	356039	254.6	
Aroclor-1221	3	5.099	-0.002	4508891	247.0	3	5.505	-0.001	1099870	250.2	
Aroclor-1221	NS	---	---	---	---	4	5.574	-0.002	192211	253.4	
Total CollAve (3 peaks):				249.4	Total Col2Ave (4 peaks):				253.4	RPD = 2	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				252.7		
Aroclor-1232	1	6.093	-0.001	458282	60.0	1	6.222	0.012	358740	103.2	
Aroclor-1232	2	6.498	0.001	1122858	47.0	2	6.841	0.000	321991	47.0	
Aroclor-1232	3	6.647	0.000	531736	51.1	3	7.051	0.000	148471	51.8	
Aroclor-1232	4	7.909	0.008	1596139	122.3	4	8.276	-0.001	52722	21.7	
Total CollAve (4 peaks):				70.1	Total Col2Ave (4 peaks):				55.9	RPD = 23	
Corrected Ave (3 peaks):				52.7	Corrected Ave (3 peaks):				40.2	RPD = 27	
Aroclor-1242	1	6.093	0.000	458282	31.4	1	6.222	0.014	358740	60.0	
Aroclor-1242	2	6.498	0.002	1122858	24.8	2	6.841	0.001	321991	25.3	
Aroclor-1242	3	6.647	0.000	531736	27.1	3	7.051	0.000	148471	28.1	
Aroclor-1242	4	7.909	0.010	1596139	69.4	4	8.276	0.000	52722	11.8	
Total CollAve (4 peaks):				38.2	Total Col2Ave (4 peaks):				31.3	RPD = 20	
Corrected Ave (3 peaks):				27.8	Corrected Ave (3 peaks):				21.7	RPD = 25	
Aroclor-1248	1	6.498	0.004	1122858	38.0	1	6.841	0.004	321991	38.7	
Aroclor-1248	2	7.472	-0.001	239812	7.7	2	7.748	0.002	114856	16.6	
Aroclor-1248	3	7.909	0.008	1596139	40.6	3	8.276	0.000	52722	7.4	
Aroclor-1248	4	8.141	0.005	340779	11.3	4	8.618	-0.005	92544	10.5	
Total CollAve (4 peaks):				24.4	Total Col2Ave (4 peaks):				18.3	RPD = 29	
Corrected Ave (3 peaks):				19.0	Corrected Ave (3 peaks):				11.5	RPD = 49*	
Aroclor-1254	1	8.223	0.001	1769407	44.2	1	8.340	0.000	354063	58.2	
Aroclor-1254	2	8.592	0.000	336843	12.8	2	8.515	0.000	417777	54.4	
Aroclor-1254	3	8.694	-0.034	2422617	47.4	3	9.037	0.000	87584	14.8	
Aroclor-1254	4	9.059	-0.019	8913969	159.2	4	9.228	0.040	1792258	138.4	
Aroclor-1254	5	9.389	-0.050	11938346	339.1	5	9.982	0.009	439675	56.4	
Total CollAve (5 peaks):				120.5	Total Col2Ave (5 peaks):				64.4	RPD = 61*	
Corrected Ave (4 peaks):				65.9	Corrected Ave (4 peaks):				45.9	RPD = 36	
Aroclor-1260	1	9.996	0.000	14330919	355.5	1	10.302	0.000	3293314	394.7	
Aroclor-1260	2	10.312	0.001	12161194	300.1	2	10.753	0.001	3223310	314.8	
Aroclor-1260	3	10.686	0.000	26854955	279.5	3	11.025	0.000	6078545	298.3	
Aroclor-1260	4	11.087	0.002	9854236	178.9	4	11.547	0.000	2921454	475.8	
Aroclor-1260	5	11.276	0.000	12713532	475.1	NS	---	---	---	---	
Total CollAve (5 peaks):				317.8	Total Col2Ave (4 peaks):				370.9	RPD = 15	
Corrected Ave (4 peaks):				278.5	Corrected Ave (3 peaks):				335.9	RPD = 19	
Aroclor-1262	1	9.996	0.000	14330919	237.9	1	10.302	0.000	3293314	241.6	
Aroclor-1262	2	10.312	0.000	12161194	265.9	2	10.753	0.000	3223310	266.2	
Aroclor-1262	3	10.686	-0.001	26854955	226.5	3	11.025	0.000	6078545	228.7	
Aroclor-1262	4	11.203	0.001	12181237	272.7	4	11.547	0.001	2921454	271.6	
Aroclor-1262	5	11.276	0.000	12713532	259.2	5	12.348	0.001	2484368	240.3	
Total CollAve (5 peaks):				252.5	Total Col2Ave (5 peaks):				249.7	RPD = 1	
Corrected Ave (4 peaks):				247.4	Corrected Ave (4 peaks):				244.2	RPD = 1	
Aroclor-1268	1	11.203	0.000	12181237	101.4	1	11.547	0.000	2921454	107.6	
Aroclor-1268	2	11.276	0.001	12713532	110.0	2	11.609	-0.004	4412348	167.1	

Aroclor-1268 3	11.675	0.015	5371544	52.9	3	12.011	0.000	200194	9.1
Aroclor-1268 4	12.448	-0.001	4545991	15.7	4	12.834	-0.001	878866	13.4
Total Col1Ave (4 peaks):			70.0	Total Col2Ave (4 peaks):				74.3	RPD = 6
Corrected Ave (3 peaks):			56.6	Corrected Ave (3 peaks):				43.4	RPD = 27

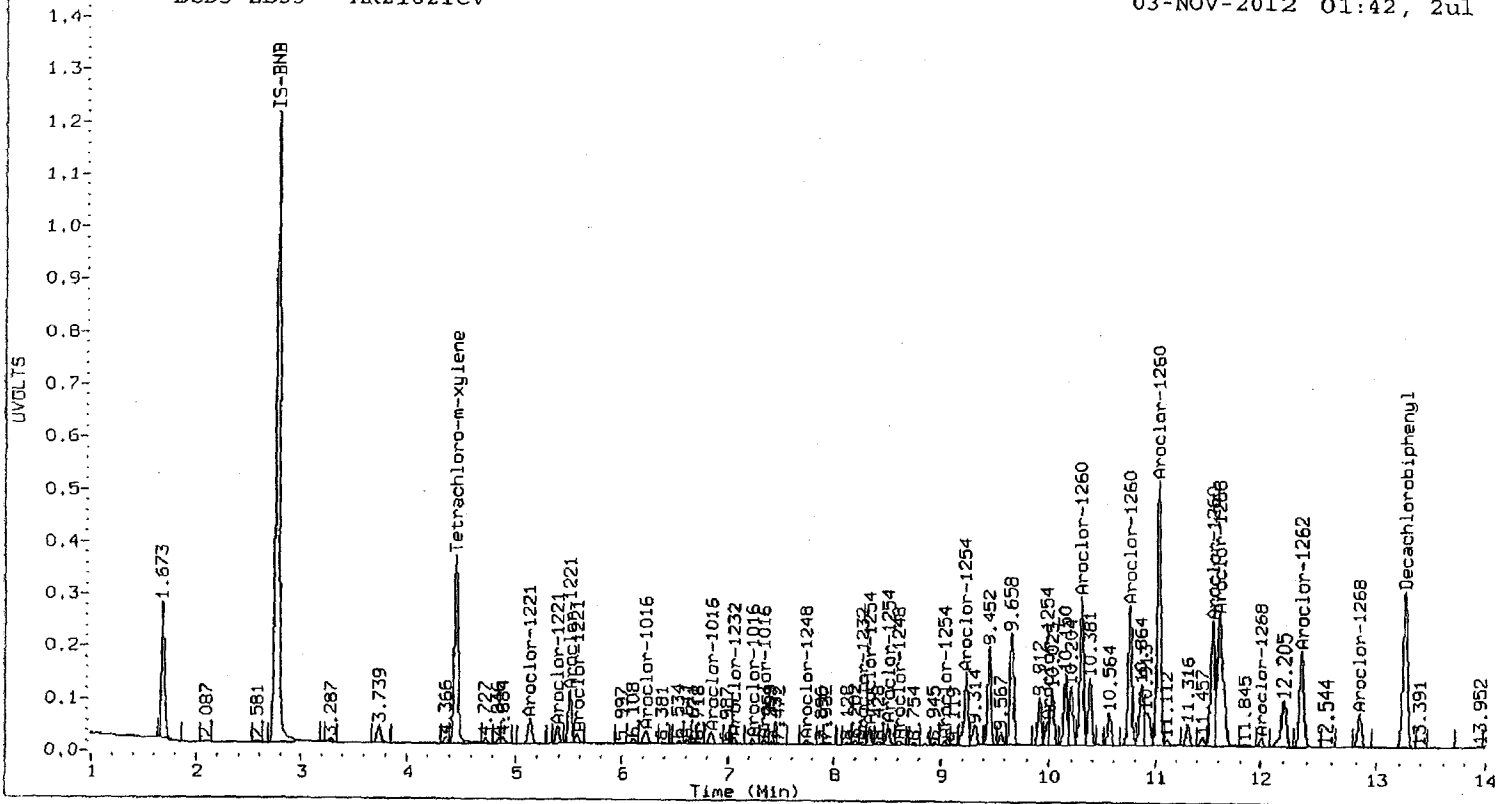
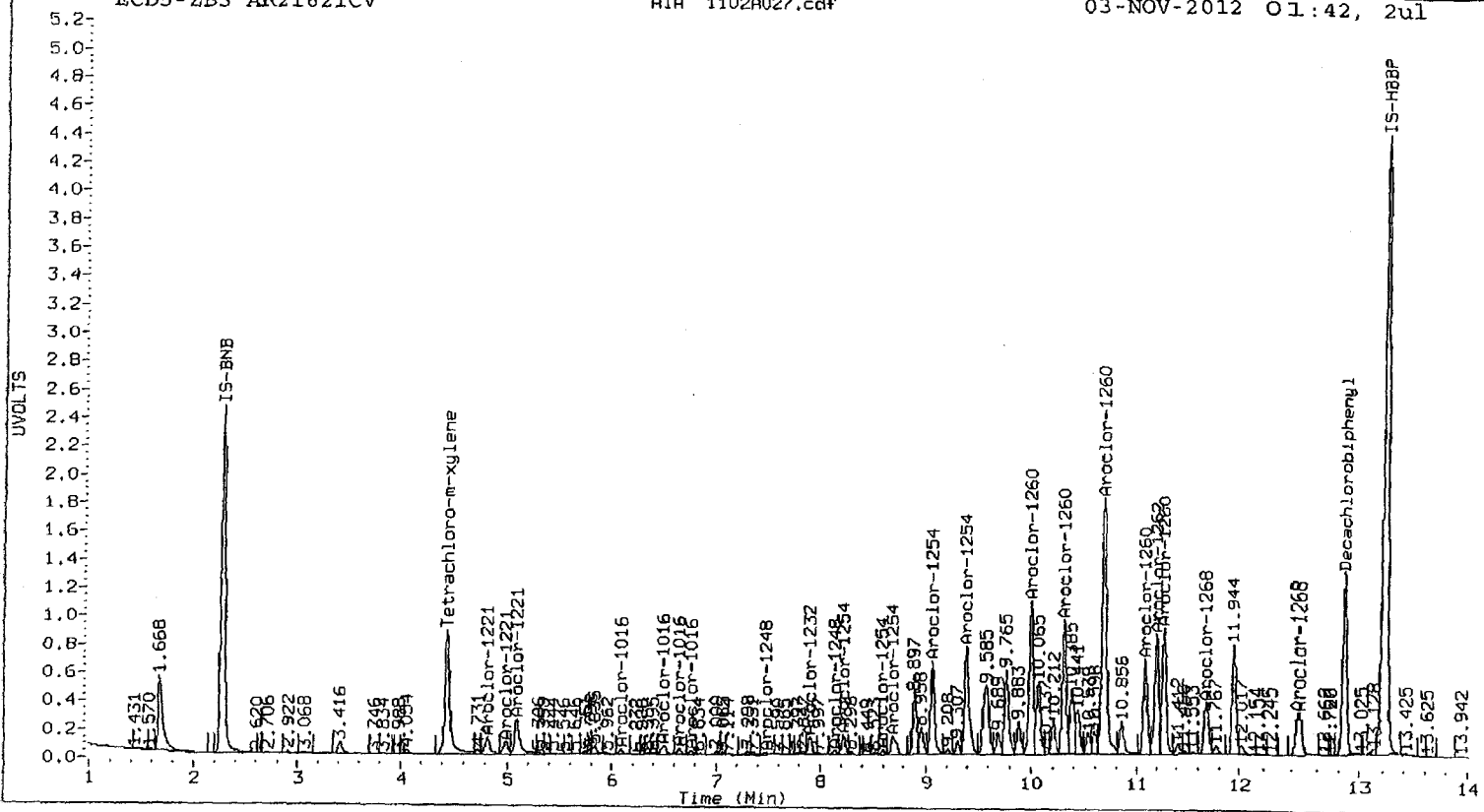
Total PCB Area Col1 (4.544 - 12.755) = 215912408 Col1 Total PCB = 0.4 ppm*

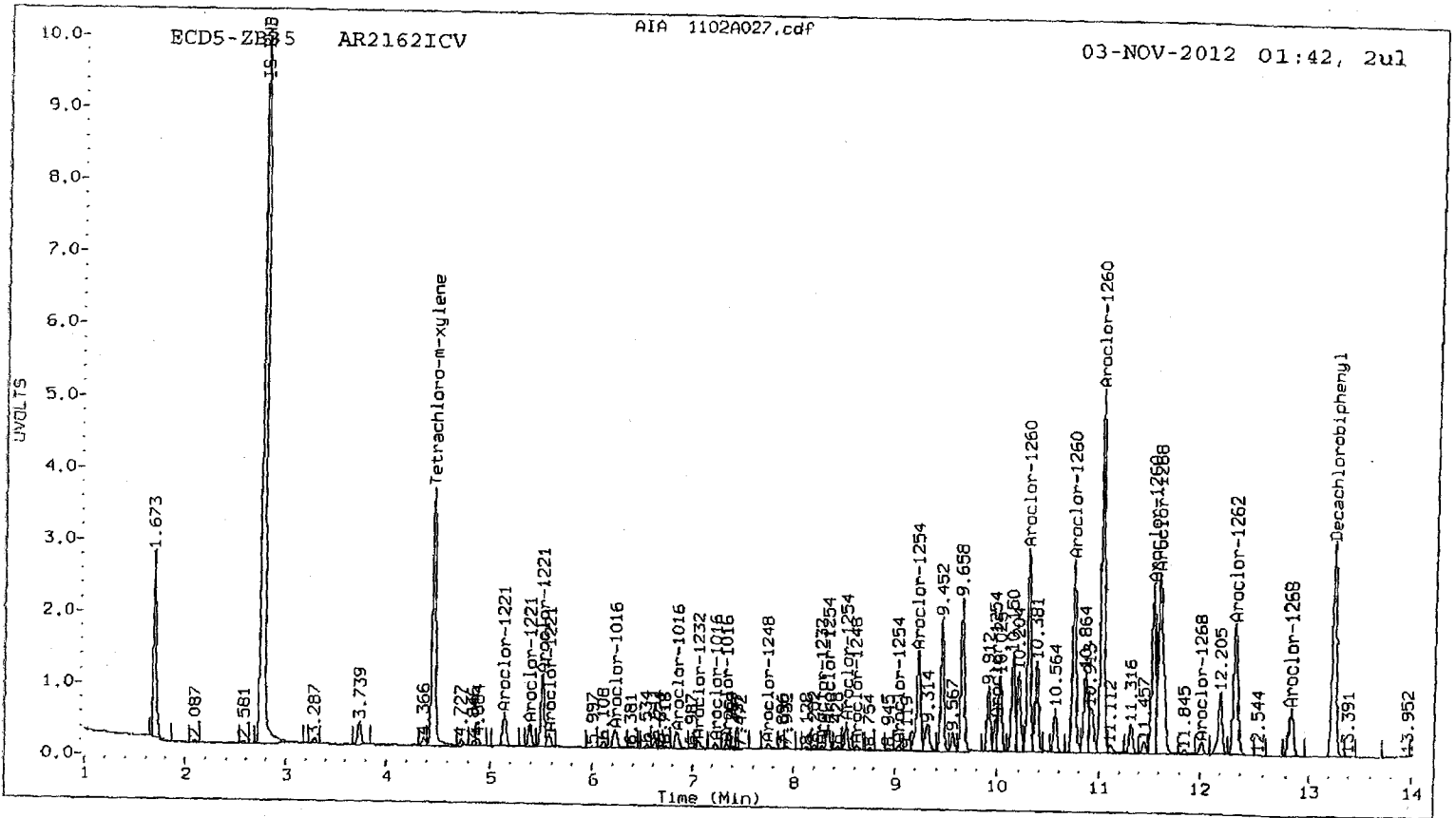
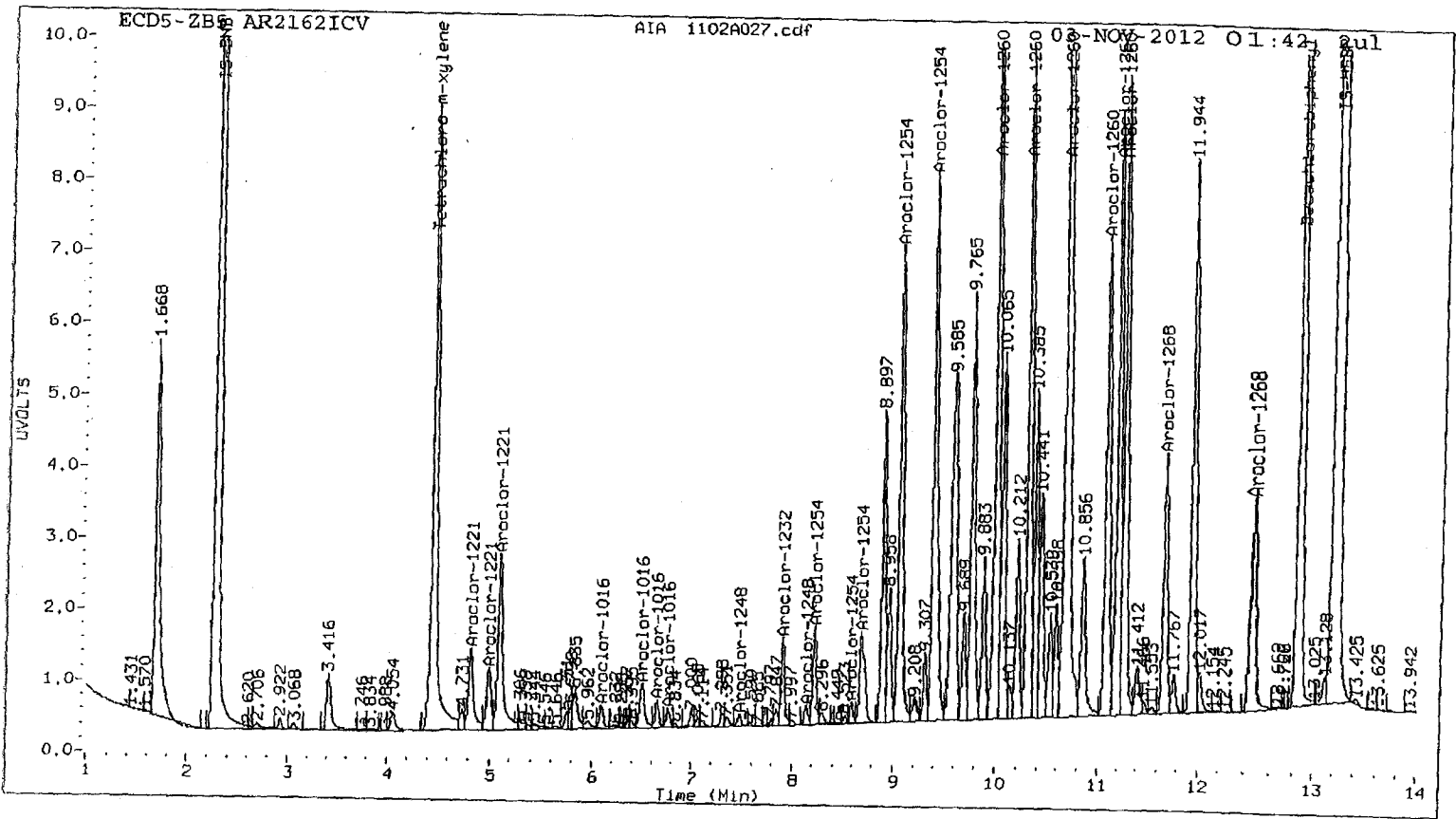
Total PCB Area Col2 (4.556 - 13.148) = 48847228 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR02:01532





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/ical-1.b/1102A028.d
Data file 2: 20121102.B/ical-2.b/1102A028.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268ICV
Client ID:
Injection Date: 03-NOV-2012 02:02
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.446	0.001	13904281	4.454	-0.001	4205751	19.9	21.2	6.0	Tetrachloro-m-xylene
12.856	0.001	30528333	13.247	-0.001	6547329	28.2	30.6	8.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.9	52.9
Decachlorobiphenyl	70.6	76.4

11/06/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	33384825	6.8
Hexabromobiphenyl	64198300	69841459	8.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	13930274	-4.2
Hexabromobiphenyl	15789428	15765289	-0.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016 1	1	6.094	0.001	2054334	110.1	1	6.209	0.001	957858	122.8	
Aroclor-1016 2	2	6.498	0.000	6321165	108.7	2	6.840	0.000	1845496	111.8	
Aroclor-1016 3	3	6.647	0.000	2723371	108.5	3	7.226	0.002	500574	116.6	
Aroclor-1016 4	4	6.758	0.001	1991425	110.9	4	7.335	0.001	489391	101.3	
Total CollAve (4 peaks):				109.5		Total Col2Ave (4 peaks):				113.1	RPD = 3
Corrected Ave (3 peaks):				109.1		Corrected Ave (3 peaks):				109.9	RPD = 1
Aroclor-1221 1	1	4.815	-0.001	1292859	158.7	1	5.140	-0.001	371929	157.6	
Aroclor-1221 2	2	4.993	-0.002	977058	175.1	2	5.392	0.000	231393	166.5	
Aroclor-1221 3	3	5.099	-0.002	3344323	184.0	3	5.506	-0.001	854902	195.6	
Aroclor-1221 NS	---	---	---	---	---	4	5.574	-0.001	108483	143.8	
Total CollAve (3 peaks):				172.6		Total Col2Ave (4 peaks):				165.9	RPD = 4
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				156.0	
Aroclor-1232 1	1	6.094	0.000	2054334	270.2	1	6.209	-0.001	957858	277.1	
Aroclor-1232 2	2	6.498	0.001	6321165	265.9	2	6.840	0.000	1845496	270.9	
Aroclor-1232 3	3	6.647	0.000	2723371	262.7	3	7.051	0.000	776617	272.7	
Aroclor-1232 4	4	7.901	0.000	2857479	219.9	4	8.277	0.000	575763	238.1	
Total CollAve (4 peaks):				254.7		Total Col2Ave (4 peaks):				264.7	RPD = 4
Corrected Ave (3 peaks):				249.5		Corrected Ave (3 peaks):				260.6	RPD = 4
Aroclor-1242 1	1	6.094	0.001	2054334	141.5	1	6.209	0.001	957858	161.0	
Aroclor-1242 2	2	6.498	0.001	6321165	140.5	2	6.840	0.000	1845496	145.8	
Aroclor-1242 3	3	6.647	0.000	2723371	139.4	3	7.051	0.000	776617	147.6	
Aroclor-1242 4	4	7.901	0.002	2857479	124.7	4	8.277	0.001	575763	129.9	
Total CollAve (4 peaks):				136.5		Total Col2Ave (4 peaks):				146.1	RPD = 7
Corrected Ave (3 peaks):				134.9		Corrected Ave (3 peaks):				141.1	RPD = 4
Aroclor-1248 1	1	6.498	0.004	6321165	214.9	1	6.840	0.004	1845496	223.2	
Aroclor-1248 2	2	7.473	0.000	2615546	84.5	2	7.747	0.001	677062	98.7	
Aroclor-1248 3	3	7.901	0.000	2857479	73.1	3	8.277	0.001	575763	81.3	
Aroclor-1248 4	4	8.137	0.001	2383872	79.1	4	8.624	0.002	667512	76.1	
Total CollAve (4 peaks):				112.9		Total Col2Ave (4 peaks):				119.8	RPD = 6
Corrected Ave (3 peaks):				78.9		Corrected Ave (3 peaks):				85.4	RPD = 8
Aroclor-1254 1	1	8.220	-0.002	960856	24.1	1	8.340	-0.001	134602	22.3	
Aroclor-1254 2	2	8.593	0.001	542372	20.7	2	8.515	0.000	132432	17.3	
Aroclor-1254 3	3	8.730	0.001	962901	18.9	3	9.037	0.000	120258	20.5	
Aroclor-1254 4	4	9.080	0.002	821496	14.7	4	9.186	-0.001	256169	19.9	
Aroclor-1254 5	5	9.444	0.005	552952	15.8	5	9.968	-0.004	121935	15.7	
Total CollAve (5 peaks):				18.8		Total Col2Ave (5 peaks):				19.1	RPD = 2
Corrected Ave (4 peaks):				17.5		Corrected Ave (4 peaks):				18.4	RPD = 5
Aroclor-1260 1	1	9.997	0.001	7647756	188.1	1	10.302	0.001	1751670	208.1	
Aroclor-1260 2	2	10.312	0.001	799540	19.6	2	10.754	0.002	2066946	200.1	
Aroclor-1260 3	3	10.686	0.000	5412054	55.8	3	11.026	0.000	1186120	57.7	
Aroclor-1260 4	4	11.087	0.003	203003	3.7	4	11.549	0.001	7041028	1136.9	
Aroclor-1260 5	5	11.274	-0.001	32073531	1188.7	NS	---	---	---	---	
Total CollAve (5 peaks):				291.2		Total Col2Ave (4 peaks):				400.7	RPD = 32
Corrected Ave (4 peaks):				66.8		Corrected Ave (3 peaks):				155.3	RPD = 80*
Aroclor-1262 1	1	9.997	0.000	7647756	125.9	1	10.302	0.001	1751670	127.4	
Aroclor-1262 2	2	10.312	0.000	799540	17.3	2	10.754	0.001	2066946	169.2	
Aroclor-1262 3	3	10.686	-0.001	5412054	45.3	3	11.026	0.001	1186120	44.2	
Aroclor-1262 4	4	11.204	0.002	30679792	681.2	4	11.549	0.002	7041028	649.0	
Aroclor-1262 5	5	11.274	-0.001	32073531	648.6	5	12.347	0.000	2757403	264.5	
Total CollAve (5 peaks):				303.7		Total Col2Ave (5 peaks):				250.9	RPD = 19
Corrected Ave (4 peaks):				209.3		Corrected Ave (4 peaks):				151.3	RPD = 32
Aroclor-1268 1	1	11.204	0.001	30679792	253.2	1	11.549	0.001	7041028	257.1	
Aroclor-1268 2	2	11.274	0.000	32073531	275.2	2	11.615	0.002	7521051	282.4	

Aroclor-1268 3	11.660	-0.001	23560684	230.1	3	12.012	0.001	5142436	231.0
Aroclor-1268 4	12.448	0.000	63546069	217.1	4	12.834	0.000	14474338	219.3
Total Col1Ave (4 peaks):			243.9	Total Col2Ave (4 peaks):				247.5	RPD = 1
Corrected Ave (3 peaks):			233.5	Corrected Ave (3 peaks):				235.8	RPD = 1

Total PCB Area Col1 (4.544 - 12.755) = 257662349 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.148) = 59852858 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82:01537

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1102A029.d

ARI ID: DDT

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.188	0.000	47799168	8.604	0.000	13319692	0.100	0.100	0.0	2,4-DDE
8.737	0.000	44666420	9.290	0.000	12421033	0.100	0.100	0.0	2,4-DDD
0.000	-9.261	0	9.753	0.000	32207927	0.000	0.200#	----	2,4-DDT
8.620	0.000	75089060	8.992	0.000	21334050	0.100	0.100	0.0	4,4-DDE
9.242	0.000	50085729	9.753	0.000	32207927	0.100	0.200#	66.7*	4,4-DDD
9.704	0.000	64721324	10.192	0.000	19909045	0.100	0.100	0.0	4,4-DDT

Indicates value is from co-eluting peaks
* Indicates RPD > 40%

R 11/06/12

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1102A030.d

ARI ID: BD

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.187	-0.001	122278	8.604	0.000	32884	0.000	0.000	2.2	2,4-DDE
8.736	-0.001	121477	9.290	0.000	25803	0.000	0.000	25.4	2,4-DDD
0.000	-9.261	0	9.763	0.010	572430	0.000	0.004#	----	2,4-DDT
8.622	0.002	398935	8.993	0.001	85279	0.001	0.000	26.9	4,4-DDE
9.201	-0.040	2331803	9.763	0.010	572430	0.005	0.004#	25.5	4,4-DDD
9.705	0.000	62005592	10.192	0.000	18898672	0.101	0.102	0.4	4,4-DDT

Indicates value is from co-eluting peaks
* Indicates RPD > 40%

**PCB Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: VR82



GC Analyst Notes / Corrective Action Log

ARI Project ID: VR58/VR82 Client ID: City of Kenmore

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): PCB TCMX DCB

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 11/02/12 Analysis Start: 11/24/12

Endrin/DDT Breakdown <15%?	YES / NO / NA	Method Blank In Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery In Control?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): MISC peak throughout samples, see DDT screens. went w best fit w regards to y-flags. y-flags are for ranges 11/26/12

Additional Details on Reverse: Yes / No No

Analyst: [Signature] Date: 11/26/12

Reviewer: [Signature] Date: 11/26/12

Analytical Resources Inc.: Organics Instrument Log

ECD-5 Serial No.: US00034118

Date: 11/24/12 Analysis: PCB's Analyst: [Signature]
 Column 1 Serial No.: 182209 Column Type: 9B5
 Column 2 Serial No.: 182209 Column Type: 7B35
 GC Method: PCB2 ICal Date: 11/02/12 Injection Volume: 2ul

IS	Ical/Ccal	ICV
<u>2006-1</u>	<u>1980-1,2,3,4,15,16</u>	<u>2009-2,3,4,15,16,7</u>

Document All Maintenance Tasks In StarLIMS

Inject	Date/Time	Filename	DF	LabID
1	24-NOV-2012 16:43	1124A001.d	1	RINSE
2	24-NOV-2012 17:03	1124A002.d	1	AR1254
3	24-NOV-2012 17:23	1124A003.d	1	AR1660
4	24-NOV-2012 17:44	1124A004.d	1	VR58MBE
5	24-NOV-2012 18:04	1124A005.d	1	VR58LCE
6	24-NOV-2012 18:24	1124A006.d	1	VR58SRM
7	24-NOV-2012 18:45	1124A007.d	1	VR58A
8	24-NOV-2012 19:05	1124A008.d	1	VR58B
9	24-NOV-2012 19:25	1124A009.d	1	BR58C
10	24-NOV-2012 19:46	1124A010.d	1	VR58D
11	24-NOV-2012 20:06	1124A011.d	1	VR58E
12	24-NOV-2012 20:26	1124A012.d	1	VR58F
13	24-NOV-2012 20:47	1124A013.d	1	AR1248
14	24-NOV-2012 21:07	1124A014.d	1	AR1660
15	24-NOV-2012 21:27	1124A015.d	1	VR58G
16	24-NOV-2012 21:48	1124A016.d	1	VR58H
17	24-NOV-2012 22:08	1124A017.d	1	VR58I
18	24-NOV-2012 22:28	1124A018.d	1	VR58J
19	24-NOV-2012 22:49	1124A019.d	1	VR58JME
20	24-NOV-2012 23:09	1124A020.d	1	VR58JME
21	24-NOV-2012 23:29	1124A021.d	1	VR82A
22	24-NOV-2012 23:50	1124A022.d	1	VR82B
23	25-NOV-2012 00:10	1124A023.d	1	VR82C
24	25-NOV-2012 00:30	1124A024.d	1	AR1242
25	25-NOV-2012 00:51	1124A025.d	1	AR1660
26	25-NOV-2012 01:11	1124A026.d	1	VR82D
27	25-NOV-2012 01:31	1124A027.d	1	VR82E
28	25-NOV-2012 01:52	1124A028.d	1	VR82F
29	25-NOV-2012 02:12	1124A029.d	1	VR82G
30	25-NOV-2012 02:33	1124A030.d	1	VR82H
31	25-NOV-2012 02:53	1124A031.d	1	VR82I
32	25-NOV-2012 03:13	1124A032.d	50	VS17J
33	25-NOV-2012 03:34	1124A033.d	5	VS17K
34	25-NOV-2012 03:54	1124A034.d	1	AR1254
35	25-NOV-2012 04:14	1124A035.d	1	AR1660
36	25-NOV-2012 04:35	1124A036.d	1	DDT
37	25-NOV-2012 04:55	1124A037.d	1	DDTBD

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MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/1124-1.b

ARI Job No.: RINS Method: PCB1.m Instrument: ecd5.i Date: 24-NOV-2012

Time Filename LabID ClientID DF Manually Integrated Compounds

1643 1124A001.d RINSE 1 NO MANUAL INTEGRATION

1703 1124A002.d ARI1254 1 NO MANUAL INTEGRATION

1723 1124A003.d ARI1660 1 NO MANUAL INTEGRATION

1744 1124A004.d VR58MBS1 VR58MBS1 1 NO MANUAL INTEGRATION

1804 1124A005.d VR58LCSS1 VR58LCSS1 1 NO MANUAL INTEGRATION

1824 1124A006.d VR58SRM1 PSR 1 NO MANUAL INTEGRATION

1845 1124A007.d VR58A SG-10-S-E 1 NO MANUAL INTEGRATION

1905 1124A008.d VR58B SG-11-S-E 1 NO MANUAL INTEGRATION

1925 1124A009.d VR58C SG-12-S-E 1 NO MANUAL INTEGRATION

1946 1124A010.d VR58D SG-13-S-E 1 NO MANUAL INTEGRATION

2006 1124A011.d VR58E SG-13-S-E 1 NO MANUAL INTEGRATION

2026 1124A012.d VR58F SG-14-S-E 1 NO MANUAL INTEGRATION

2047 1124A013.d ARI1248 1 NO MANUAL INTEGRATION

2107 1124A014.d ARI1660 1 NO MANUAL INTEGRATION

2127 1124A015.d VR58G SG-15-S-E 1 NO MANUAL INTEGRATION

2148 1124A016.d VR58H SG-16-S-E 1 NO MANUAL INTEGRATION

2208 1124A017.d VR58I SG-17-S-E 1 NO MANUAL INTEGRATION

2228 1124A018.d VR58J SG-01-S-C 1 NO MANUAL INTEGRATION

2249 1124A019.d VR58JMS SG-01-S-C 1 NO MANUAL INTEGRATION

2309 1124A020.d VR58JMSD SG-01-S-C 1 NO MANUAL INTEGRATION

2329 1124A021.d VR82A SG-02-S-C- 1 NO MANUAL INTEGRATION

VR82 : 01546

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/1124-1.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2350 1124A022.d VR82B SG-03-S-C 1 NO MANUAL INTEGRATION

0010 1124A023.d VR82C SG-04-S-C 1 NO MANUAL INTEGRATION

0030 1124A024.d AR1242 1 NO MANUAL INTEGRATION

0051 1124A025.d AR1660 1 NO MANUAL INTEGRATION

0111 1124A026.d VR82D SG-05-S-C 1 NO MANUAL INTEGRATION

0131 1124A027.d VR82E SG-06-S-C 1 NO MANUAL INTEGRATION

0152 1124A028.d VR82F SG-07-S-C 1 NO MANUAL INTEGRATION

0212 1124A029.d VR82G SG-07-S-C 1 NO MANUAL INTEGRATION

0233 1124A030.d VR82H SG-08-S-C 1 NO MANUAL INTEGRATION

0253 1124A031.d VR82I SG-09-S-C 1 NO MANUAL INTEGRATION

0313 1124A032.d VS17J LTST-F-MH1 50 NO MANUAL INTEGRATION

0334 1124A033.d VS17K LTST-F-EFF 5 NO MANUAL INTEGRATION

0354 1124A034.d AR1254 1 NO MANUAL INTEGRATION

0414 1124A035.d AR1660 1 NO MANUAL INTEGRATION

0435 1124A036.d DDT 1 NO MANUAL INTEGRATION

0455 1124A037.d DDTBD 1 NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/1124-1.b

ARI Job No.: RINS Method: PCB1.m Instrument: ecd5.i Date: 24-NOV-2012

Time Filename LabID ClientID DF Manually Integrated Compounds

1643 1124A001.d RINSE 1 NO MANUAL INTEGRATION

1703 1124A002.d AR1254 1 NO MANUAL INTEGRATION

1723 1124A003.d AR1660 1 NO MANUAL INTEGRATION

1744 1124A004.d VR58MBS1 VR58MBS1 1 NO MANUAL INTEGRATION

1804 1124A005.d VR58LCSS1 VR58LCSS1 1 NO MANUAL INTEGRATION

1824 1124A006.d VR58SRM1 PSR 1 NO MANUAL INTEGRATION

1845 1124A007.d VR58A SG-10-S-E 1 NO MANUAL INTEGRATION

1905 1124A008.d VR58B SG-11-S-E 1 NO MANUAL INTEGRATION

1925 1124A009.d VR58C SG-12-S-E 1 NO MANUAL INTEGRATION

1946 1124A010.d VR58D SG-13-S-E 1 NO MANUAL INTEGRATION

2006 1124A011.d VR58E SG-13-S-E 1 NO MANUAL INTEGRATION

2026 1124A012.d VR58F SG-14-S-E 1 NO MANUAL INTEGRATION

2047 1124A013.d AR1248 1 NO MANUAL INTEGRATION

2107 1124A014.d AR1660 1 NO MANUAL INTEGRATION

2127 1124A015.d VR58G SG-15-S-E 1 NO MANUAL INTEGRATION

2148 1124A016.d VR58H SG-16-S-E 1 NO MANUAL INTEGRATION

2208 1124A017.d VR58I SG-17-S-E 1 NO MANUAL INTEGRATION

2228 1124A018.d VR58J SG-01-S-C 1 NO MANUAL INTEGRATION

2249 1124A019.d VR58JMS SG-01-S-C 1 NO MANUAL INTEGRATION

2309 1124A020.d VR58JMSD SG-01-S-C 1 NO MANUAL INTEGRATION

2329 1124A021.d VR82A SG-02-S-C- 1 NO MANUAL INTEGRATION

VR82 : 01549

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20121102.B/1124-1.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2350 1124A022.d VR82B SG-03-S-C 1 NO MANUAL INTEGRATION

0010 1124A023.d VR82C SG-04-S-C 1 NO MANUAL INTEGRATION

0030 1124A024.d AR1242 1 NO MANUAL INTEGRATION

0051 1124A025.d AR1660 1 NO MANUAL INTEGRATION

0111 1124A026.d VR82D SG-05-S-C 1 NO MANUAL INTEGRATION

0131 1124A027.d VR82E SG-06-S-C 1 NO MANUAL INTEGRATION

0152 1124A028.d VR82F SG-07-S-C 1 NO MANUAL INTEGRATION

0212 1124A029.d VR82G SG-07-S-C 1 NO MANUAL INTEGRATION

0233 1124A030.d VR82H SG-08-S-C 1 NO MANUAL INTEGRATION

0253 1124A031.d VR82I SG-09-S-C 1 NO MANUAL INTEGRATION

0313 1124A032.d VS17J LTST-F-MH1 50 NO MANUAL INTEGRATION

0334 1124A033.d VS17K LTST-F-EFF 5 NO MANUAL INTEGRATION

0354 1124A034.d AR1254 1 NO MANUAL INTEGRATION

0414 1124A035.d AR1660 1 NO MANUAL INTEGRATION

0435 1124A036.d DDT 1 NO MANUAL INTEGRATION

0455 1124A037.d DDTBD 1 NO MANUAL INTEGRATION

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A002.d
Data file 2: 20121102.B/1124-2.b/1124A002.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 24-NOV-2012 17:03
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.452	0.003	19839047	4.456	-0.001	5527247	20.9	21.0	0.4	Tetrachloro-m-xylene
12.860	0.002	23541849	13.248	-0.001	4997416	19.4	20.4	4.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	52.2	52.4
Decachlorobiphenyl	48.5	50.9

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	45463451	45.5
Hexabromobiphenyl	64198300	80484425	25.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	18490011	27.2
Hexabromobiphenyl	15789428	18053345	14.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	8.226	0.002	13396429	246.8	1	8.340	-0.002	2099244	261.5	
Aroclor-1254	2	8.599	0.002	7744923	217.0	2	8.515	0.000	2647302	261.1	
Aroclor-1254	3	8.733	0.002	16977391	244.8	3	9.038	-0.001	2134245	274.0	
Aroclor-1254	4	9.082	0.002	18481418	243.5	4	9.187	-0.001	4316584	252.6	
Aroclor-1254	5	9.443	0.002	11443407	239.7	5	9.972	0.000	2672680	259.6	
Total Col1Ave (5 peaks):				238.4	Total Col2Ave (5 peaks):				261.7	RPD = 9	
Corrected Ave (4 peaks):				236.2	Corrected Ave (4 peaks):				258.7	RPD = 9	

Total PCB Area Col1 (4.549 - 12.758) = 186641277 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 43862349 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A003.d
Data file 2: 20121102.B/1124-2.b/1124A003.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 24-NOV-2012 17:23
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	14192757	4.456	0.000	3713150	20.7	20.1	3.1	Tetrachloro-m-xylene
12.858	0.001	17400532	13.248	-0.001	3673615	19.1	20.3	6.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.7	50.2
Decachlorobiphenyl	47.6	50.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	32837024	5.1
Hexabromobiphenyl	64198300	60613002	-5.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12977204	-10.7
Hexabromobiphenyl	15789428	13302157	-15.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.097	0.001	4587254	249.9	1	6.210	0.000	1777585	244.5	
Aroclor-1016	2	6.502	0.001	14348412	250.8	2	6.842	-0.001	3782319	245.9	
Aroclor-1016	3	6.651	0.001	6133849	248.5	3	7.227	0.000	1017814	254.4	
Aroclor-1016	4	6.762	0.001	4531308	256.6	4	7.335	-0.002	1122326	249.4	
Total CollAve (4 peaks):				251.4		Total Col2Ave (4 peaks):				248.6	RPD = 1
Corrected Ave (3 peaks):				249.7		Corrected Ave (3 peaks):				246.6	RPD = 1
Aroclor-1260	1	9.998	0.000	8759129	248.7	1	10.301	0.000	1915804	269.8	
Aroclor-1260	2	10.315	0.000	8903673	251.4	2	10.752	-0.001	2361103	270.9	
Aroclor-1260	3	10.690	0.002	21403046	254.9	3	11.025	-0.001	4703427	271.2	
Aroclor-1260	4	11.088	0.000	12087106	251.2	4	11.547	-0.001	1369268	262.0	
Aroclor-1260	5	11.278	0.001	5878991	251.5	NS	---			----	
Total CollAve (5 peaks):				251.5		Total Col2Ave (4 peaks):				268.5	RPD = 7
Corrected Ave (4 peaks):				250.7		Corrected Ave (3 peaks):				267.6	RPD = 7

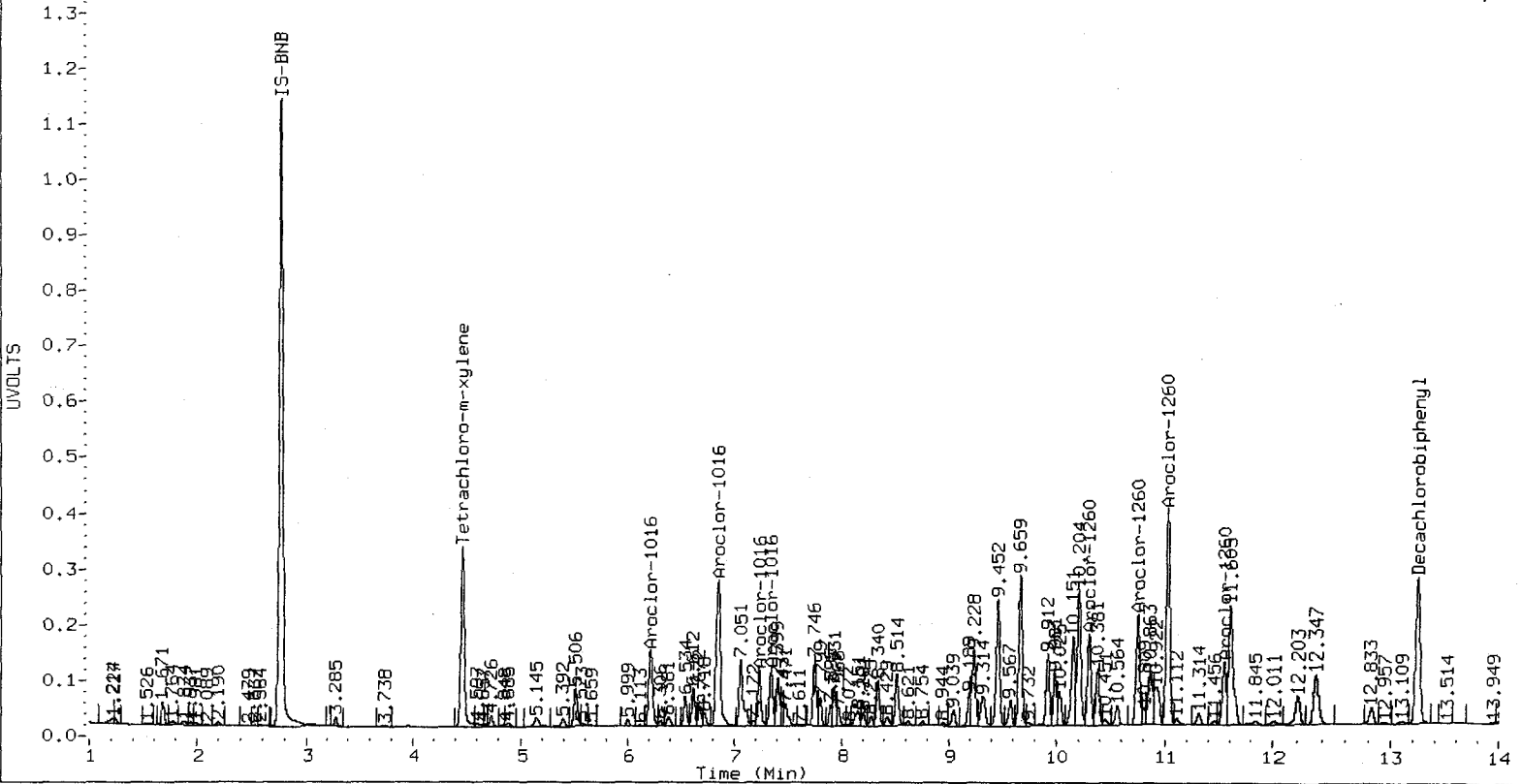
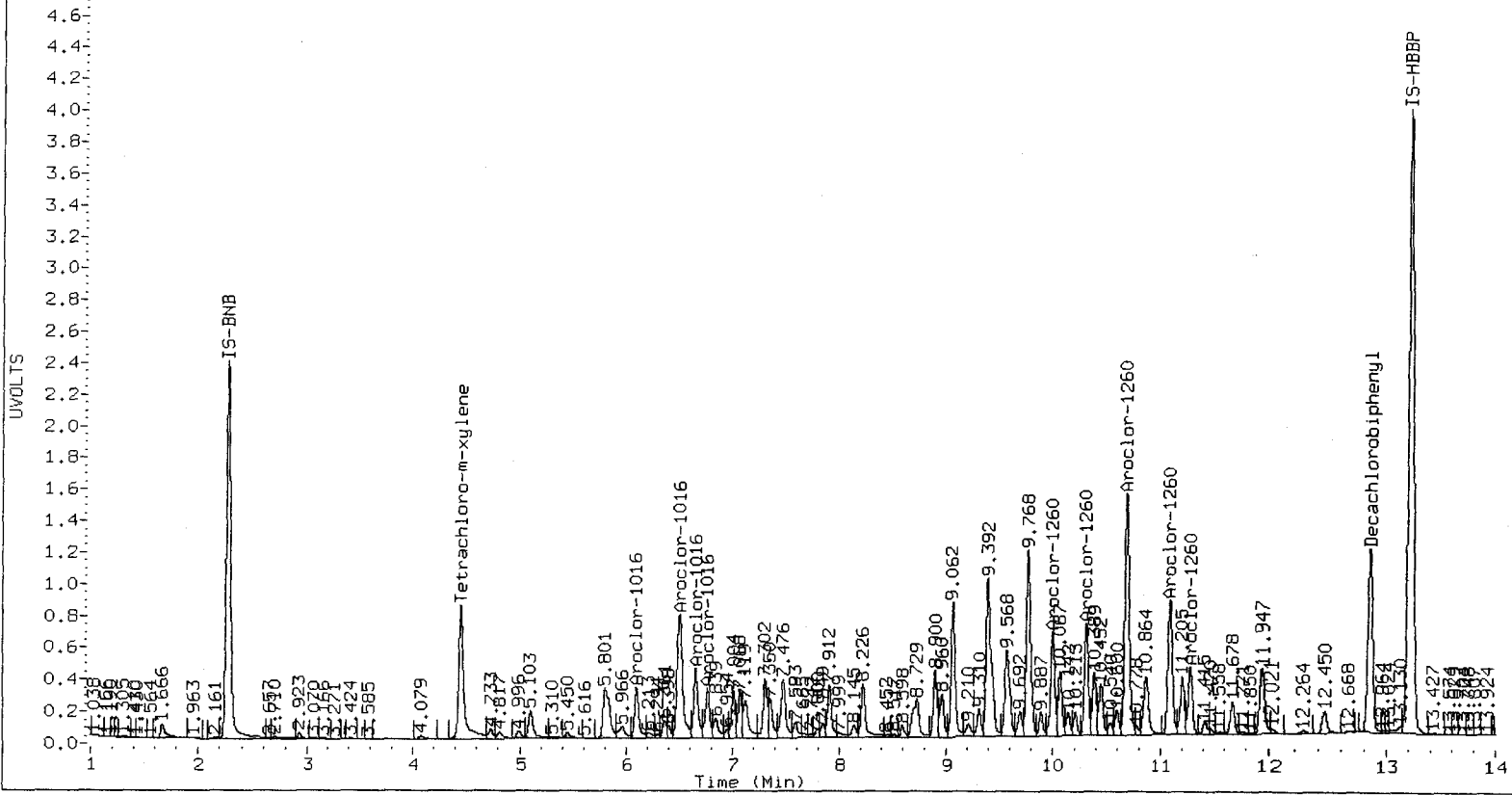
Total PCB Area Col1 (4.549 - 12.758) = 272536763

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 60341149

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A004.d
Data file 2: 20121102.B/1124-2.b/1124A004.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR58MBS1
Client ID: VR58MBS1
Injection Date: 24-NOV-2012 17:44
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	24953926	4.457	0.000	6783094	42.5	40.2	5.5	Tetrachloro-m-xylen
12.857	-0.001	31809665	13.248	-0.001	6743053	37.5	41.5	10.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	106.1	100.5
Decachlorobiphenyl	93.8	103.8

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	28148612	-9.9
Hexabromobiphenyl	64198300	56257900	-12.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	11838370	-18.6
Hexabromobiphenyl	15789428	11948908	-24.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.104	0.008	13881	0.9	1	6.203	-0.007	15625	2.4	
Aroclor-1016	2	6.489	-0.012	56718	1.2	2	---	---	---	0.0	
Aroclor-1016	3	6.609	-0.041	26516	1.3	3	7.200	-0.026	35958	9.9	
Aroclor-1016	4	6.771	0.010	18214	1.2	4	7.354	0.017	135612	33.0	
Total Col1Ave (4 peaks):				1.1		Total Col2Ave (3 peaks):				15.1	RPD = 172*
Corrected Ave (3 peaks):				1.1		Corrected Ave: < 3 Peaks					
Aroclor-1221	1	4.732	-0.085	2247873	327.2	1	5.159	0.018	101810	50.8	
Aroclor-1221	2	4.979	-0.015	495403	105.3	2	5.416	0.023	36085	30.5	
Aroclor-1221	3	5.168	0.066	88986	5.8	3	5.513	0.006	18117	4.9	
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0	
Total Col1Ave (3 peaks):				146.1		Total Col2Ave (3 peaks):				28.7	RPD = 134*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks					
Aroclor-1232	1	6.104	0.010	13881	2.2	1	---	---	---	0.0	
Aroclor-1232	2	6.489	-0.008	56718	2.8	2	---	---	---	0.0	
Aroclor-1232	3	6.609	-0.038	26516	3.0	3	---	---	---	0.0	
Aroclor-1232	4	7.921	0.020	47249	4.3	4	---	---	---	0.0	
Total Col1Ave (4 peaks):				3.1		Col2Ave: <3 Quant Peaks					
Aroclor-1242	1	6.104	0.008	13881	1.1	1	---	---	---	0.0	
Aroclor-1242	2	6.489	-0.012	56718	1.5	2	---	---	---	0.0	
Aroclor-1242	3	6.609	-0.040	26516	1.6	3	---	---	---	0.0	
Aroclor-1242	4	7.921	0.018	47249	2.4	4	---	---	---	0.0	
Total Col1Ave (4 peaks):				1.7		Col2Ave: <3 Quant Peaks					
Aroclor-1248	1	6.489	-0.008	56718	2.3	1	---	---	---	0.0	
Aroclor-1248	2	7.457	-0.016	26342	1.0	2	---	---	---	0.0	
Aroclor-1248	3	7.921	0.019	47249	1.4	3	---	---	---	0.0	
Aroclor-1248	4	8.117	-0.020	249714	9.8	4	---	---	---	0.0	
Total Col1Ave (4 peaks):				3.6		Col2Ave: <3 Quant Peaks					
Aroclor-1254	1	8.226	0.001	64204	1.9	1	---	---	---	0.0	
Aroclor-1254	2	8.616	0.019	35059	1.6	2	---	---	---	0.0	
Aroclor-1254	3	8.736	0.005	31371	0.7	3	---	---	---	0.0	
Aroclor-1254	4	9.079	-0.001	44129	0.9	4	---	---	---	0.0	
Aroclor-1254	5	9.437	-0.005	50981	1.7	5	---	---	---	0.0	
Total Col1Ave (5 peaks):				1.4		Col2Ave: <3 Quant Peaks					
Aroclor-1260	1	---	---	---	0.0	1	---	---	---	0.0	
Aroclor-1260	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1260	3	10.724	0.036	55339	0.7	3	---	---	---	0.0	
Aroclor-1260	4	11.031	-0.057	111822	2.5	4	---	---	---	0.0	
Aroclor-1260	5	11.186	-0.091	18320	0.8	NS	---	---	---	---	
Total Col1Ave (3 peaks):				1.4		Col2Ave: <3 Quant Peaks					
Aroclor-1262	1	---	---	---	0.0	1	---	---	---	0.0	
Aroclor-1262	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1262	3	10.724	0.038	55339	0.6	3	---	---	---	0.0	
Aroclor-1262	4	11.186	-0.016	18320	0.5	4	11.485	-0.062	17854	2.2	
Aroclor-1262	5	---	---	---	0.0	5	12.380	0.034	26764	3.4	
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks					
Aroclor-1268	1	11.186	-0.017	18320	0.2	1	11.485	-0.063	17854	0.9	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	11.676	0.015	52725	0.6	3	12.040	0.029	36109	2.1	
Aroclor-1268	4	12.387	-0.062	36112	0.2	4	---	---	---	0.0	
Total Col1Ave (3 peaks):				0.3		Col2Ave: <3 Quant Peaks					

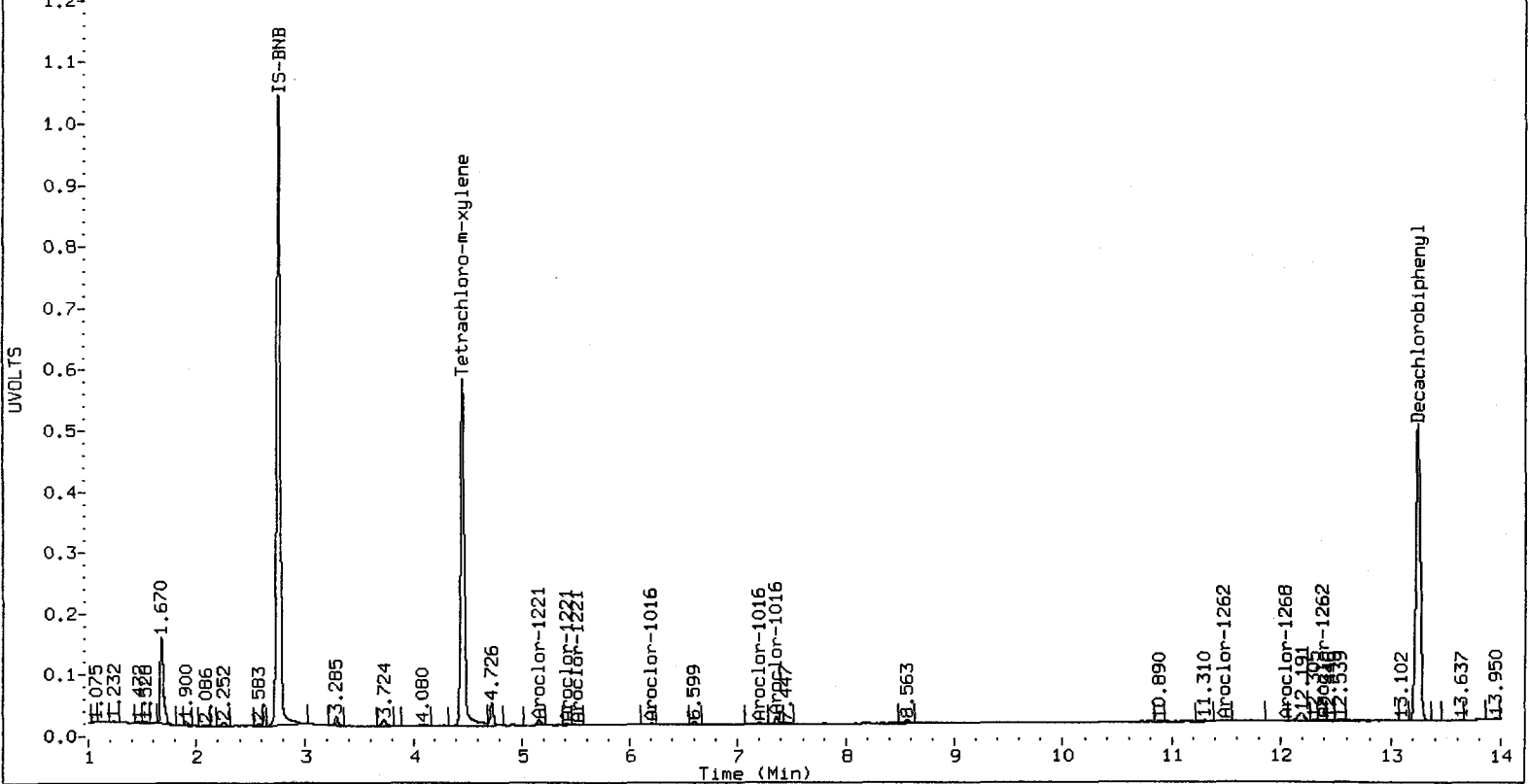
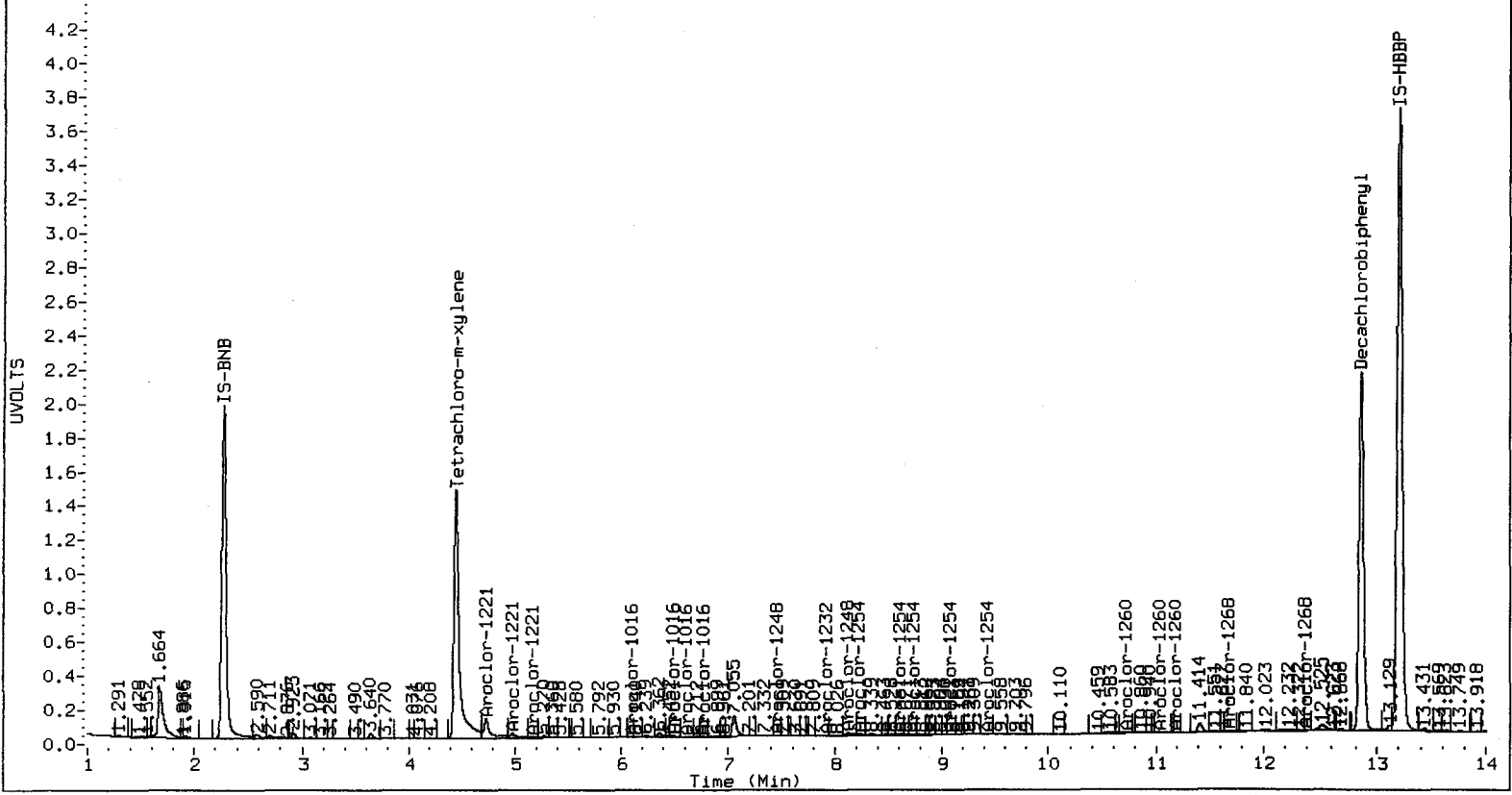
Total PCB Area Col1 (4.549 - 12.758) = 9867571 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 1253759 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01559



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A005.d
Data file 2: 20121102.B/1124-2.b/1124A005.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR58LCSS1
Client ID: VR58LCSS1
Injection Date: 24-NOV-2012 18:04
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.448	0.000	25378736	4.456	0.000	6802551	39.2	37.4	4.9	Tetrachloro-m-xylene
12.857	0.000	31871129	13.247	-0.002	6647039	36.4	39.9	9.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	98.1	93.5
Decachlorobiphenyl	91.0	99.7

11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	30967556	-0.9
Hexabromobiphenyl	64198300	58108697	-9.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	12766259	-12.2
Hexabromobiphenyl	15789428	12268470	-22.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.095	-0.001	8171201	472.0	1	6.209	-0.001	3157802	441.6	
Aroclor-1016	2	6.500	-0.001	25794457	478.1	2	6.840	-0.003	7010724	463.3	
Aroclor-1016	3	6.649	-0.001	11000580	472.5	3	7.226	-0.001	1893587	481.1	
Aroclor-1016	4	6.760	-0.001	8268407	496.5	4	7.334	-0.002	1962848	443.4	
Total CollAve (4 peaks):				479.8		Total Col2Ave (4 peaks):				457.4	RPD = 5
Corrected Ave (3 peaks):				474.2		Corrected Ave (3 peaks):				449.4	RPD = 5
Aroclor-1221	1	4.815	-0.001	1432769	189.5	1	5.143	0.002	382707	176.9	
Aroclor-1221	2	4.994	-0.001	1298574	250.9	2	5.392	-0.001	303708	238.4	
Aroclor-1221	3	5.100	-0.001	5399305	320.2	3	5.505	-0.001	1331850	332.6	
Aroclor-1221	NS	---	---	---	---	4	5.572	-0.003	109852	158.9	
Total CollAve (3 peaks):				253.6		Total Col2Ave (4 peaks):				226.7	RPD = 11
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				191.4	
Aroclor-1232	1	6.095	0.002	8171201	1158.5	1	6.209	-0.001	3157802	996.7	
Aroclor-1232	2	6.500	0.003	25794457	1169.6	2	6.840	0.000	7010724	1123.0	
Aroclor-1232	3	6.649	0.002	11000580	1143.8	3	7.050	0.000	2905943	1113.5	
Aroclor-1232	4	7.910	0.009	8056372	668.4	4	8.275	-0.001	300437	135.6	
Total CollAve (4 peaks):				1035.1		Total Col2Ave (4 peaks):				842.2	RPD = 21
Corrected Ave (3 peaks):				990.2		Corrected Ave (3 peaks):				748.6	RPD = 28
Aroclor-1242	1	6.095	-0.001	8171201	606.5	1	6.209	-0.001	3157802	579.3	
Aroclor-1242	2	6.500	-0.001	25794457	618.1	2	6.840	-0.002	7010724	604.2	
Aroclor-1242	3	6.649	-0.001	11000580	607.0	3	7.050	-0.002	2905943	602.6	
Aroclor-1242	4	7.910	0.008	8056372	379.1	4	8.275	-0.001	300437	74.0	
Total CollAve (4 peaks):				552.7		Total Col2Ave (4 peaks):				465.0	RPD = 17
Corrected Ave (3 peaks):				530.9		Corrected Ave (3 peaks):				418.6	RPD = 24
Aroclor-1248	1	6.500	0.003	25794457	945.5	1	6.840	0.000	7010724	925.2	
Aroclor-1248	2	7.474	0.001	10517708	366.2	2	7.746	0.000	2410162	383.4	
Aroclor-1248	3	7.910	0.008	8056372	222.1	3	8.275	0.000	300437	46.3	
Aroclor-1248	4	8.143	0.006	1909448	68.3	4	8.621	-0.001	156687	19.5	
Total CollAve (4 peaks):				400.5		Total Col2Ave (4 peaks):				343.6	RPD = 15
Corrected Ave (3 peaks):				218.9		Corrected Ave (3 peaks):				149.7	RPD = 38
Aroclor-1254	1	8.224	0.000	9270755	250.7	1	8.340	-0.001	1573767	283.9	
Aroclor-1254	2	8.594	-0.003	1956200	80.5	2	8.514	-0.001	1847092	263.8	
Aroclor-1254	3	8.728	-0.003	8745784	185.1	3	9.037	-0.002	427182	79.4	
Aroclor-1254	4	9.061	-0.019	21703734	419.7	4	9.189	0.000	911186	77.2	
Aroclor-1254	5	9.391	-0.050	31587585	971.4	5	9.981	0.009	1940157	273.0	
Total CollAve (5 peaks):				381.5		Total Col2Ave (5 peaks):				195.5	RPD = 64*
Corrected Ave (4 peaks):				234.0		Corrected Ave (4 peaks):				173.4	RPD = 30
Aroclor-1260	1	9.997	-0.001	16361587	484.5	1	10.301	-0.001	3576040	546.0	
Aroclor-1260	2	10.313	-0.001	16617561	489.5	2	10.751	-0.002	4413235	549.0	
Aroclor-1260	3	10.688	0.000	39683294	493.0	3	11.025	-0.001	9005092	563.1	
Aroclor-1260	4	11.087	-0.001	22582469	489.6	4	11.547	0.000	2583888	536.2	
Aroclor-1260	5	11.277	0.000	11358452	506.8	NS	---	---	---	---	
Total CollAve (5 peaks):				492.7		Total Col2Ave (4 peaks):				548.6	RPD = 11
Corrected Ave (4 peaks):				489.1		Corrected Ave (3 peaks):				543.7	RPD = 11
Aroclor-1262	1	9.997	0.001	16361587	323.8	1	10.301	-0.001	3576040	334.2	
Aroclor-1262	2	10.313	0.001	16617561	433.1	2	10.751	-0.002	4413235	464.3	
Aroclor-1262	3	10.688	0.001	39683294	398.9	3	11.025	0.001	9005092	431.7	
Aroclor-1262	4	11.204	0.002	9398918	250.8	4	11.547	0.000	2583888	306.0	
Aroclor-1262	5	11.277	0.002	11358452	276.1	5	12.348	0.001	2368231	291.9	
Total CollAve (5 peaks):				336.5		Total Col2Ave (5 peaks):				365.6	RPD = 8
Corrected Ave (4 peaks):				312.4		Corrected Ave (4 peaks):				341.0	RPD = 9
Aroclor-1268	1	11.204	0.001	9398918	93.2	1	11.547	0.000	2583888	121.3	

Aroclor-1268 2	11.277	0.002	11358452	117.1	2	11.606	-0.007	6244652	301.3
Aroclor-1268 3	11.677	0.016	5480706	64.3	3	12.012	0.000	168928	9.8
Aroclor-1268 4	12.449	0.001	3515218	14.4	4	12.833	-0.001	697940	13.6
Total Col1Ave (4 peaks):		72.3		Total Col2Ave (4 peaks):		111.5		RPD = 43*	
Corrected Ave (3 peaks):		57.3		Corrected Ave (3 peaks):		48.2		RPD = 17	

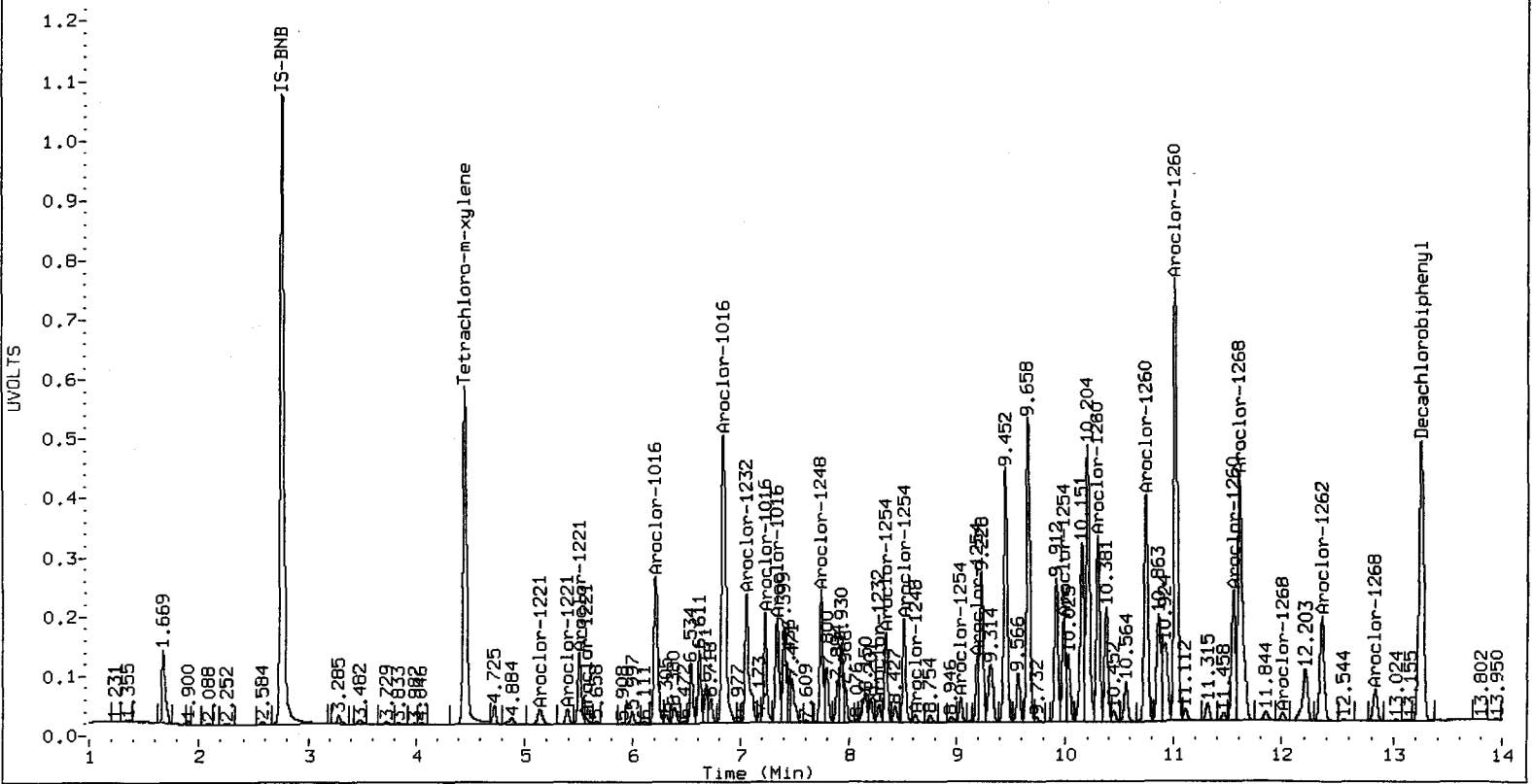
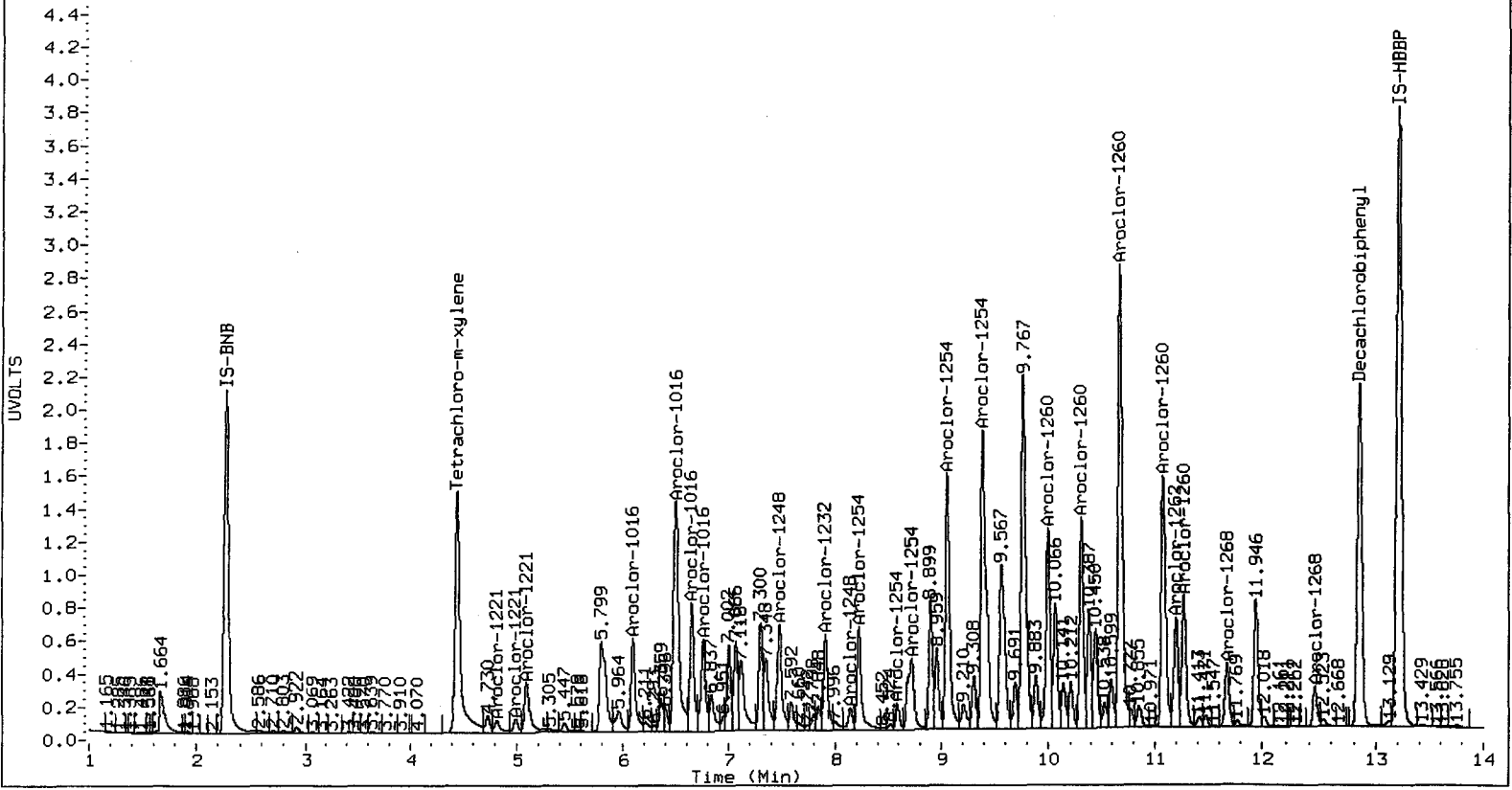
Total PCB Area Col1 (4.549 - 12.758) = 490773424 Col1 Total PCB = 1.0 ppm*

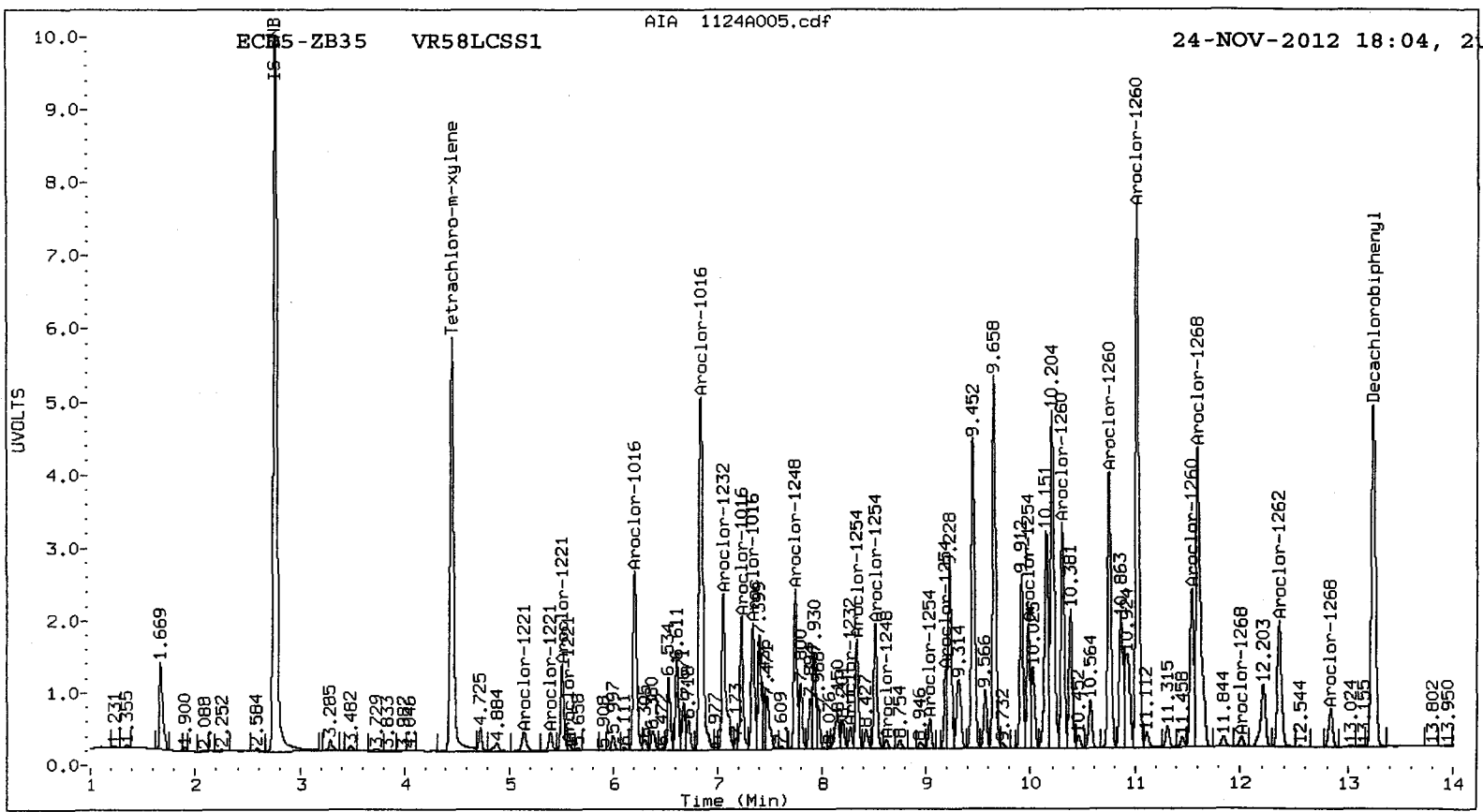
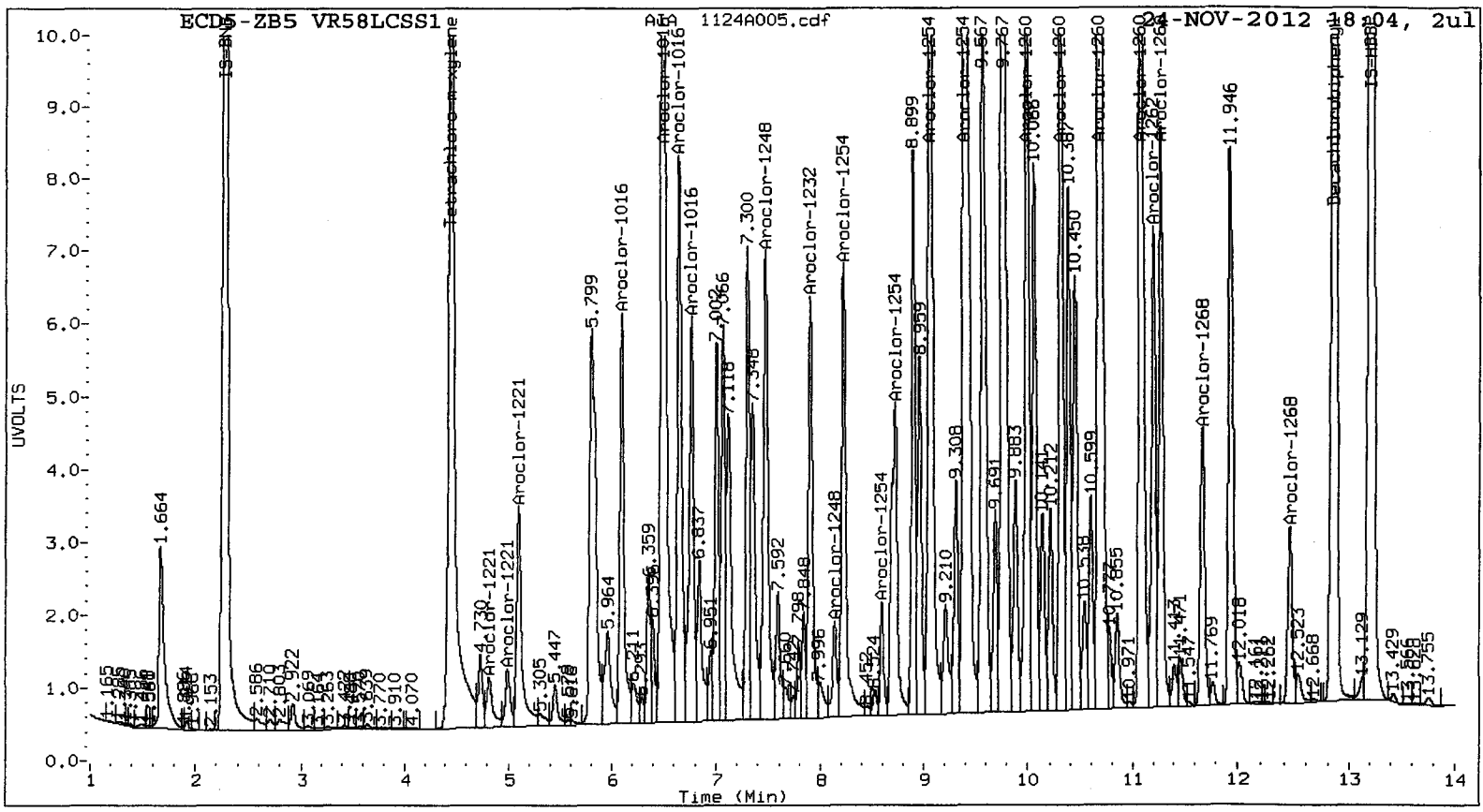
Total PCB Area Col2 (4.556 - 13.149) = 109913770 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01563





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A006.d
Data file 2: 20121102.B/1124-2.b/1124A006.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR58SRM1
Client ID: PSR
Injection Date: 24-NOV-2012 18:24
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	25391320	4.456	0.000	6652778	38.6	36.9	4.5	Tetrachloro-m-xylene
12.857	0.000	29737412	13.248	0.000	6463798	33.9	36.8	8.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	96.4	92.2
Decachlorobiphenyl	84.8	92.1

Handwritten signature
11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	31528912	0.9
Hexabromobiphenyl	64198300	58199791	-9.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12656028	-12.9
Hexabromobiphenyl	15789428	12912350	-18.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.094	-0.002	405796	23.0	1	6.207	-0.003	254802	35.9	
Aroclor-1016	2	6.500	-0.001	1497084	27.3	2	6.840	-0.002	386720	25.8	
Aroclor-1016	3	6.650	0.000	531013	22.4	3	7.224	-0.003	112535	28.8	
Aroclor-1016	4	6.761	0.000	525233	31.0	4	7.335	-0.001	349718	79.7	
Total CollAve (4 peaks):				25.9	Total Col2Ave (4 peaks):				42.6	RPD = 49*	
Corrected Ave (3 peaks):				24.2	Corrected Ave (3 peaks):				30.2	RPD = 22	
Aroclor-1221	1	4.730	-0.087	1915528	248.9	1	5.160	0.019	194683	90.8	
Aroclor-1221	2	4.980	-0.015	442141	83.9	2	5.414	0.021	194434	154.0	
Aroclor-1221	3	5.100	-0.001	234410	13.7	3	5.509	0.002	65754	16.6	
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0	
Total CollAve (3 peaks):				115.5	Total Col2Ave (3 peaks):				87.1	RPD = 28	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						
Aroclor-1232	1	6.094	0.000	405796	56.5	1	6.207	-0.003	254802	81.1	
Aroclor-1232	2	6.500	0.003	1497084	66.7	2	6.840	0.000	386720	62.5	
Aroclor-1232	3	6.650	0.002	531013	54.2	3	7.051	0.001	148455	57.4	
Aroclor-1232	4	7.909	0.008	2878678	234.6	4	8.275	-0.002	204802	93.2	
Total CollAve (4 peaks):				103.0	Total Col2Ave (4 peaks):				73.6	RPD = 33	
Corrected Ave (3 peaks):				59.1	Corrected Ave (3 peaks):				67.0	RPD = 12	
Aroclor-1242	1	6.094	-0.002	405796	29.6	1	6.207	-0.003	254802	47.1	
Aroclor-1242	2	6.500	-0.001	1497084	35.2	2	6.840	-0.002	386720	33.6	
Aroclor-1242	3	6.650	0.000	531013	28.8	3	7.051	0.000	148455	31.1	
Aroclor-1242	4	7.909	0.007	2878678	133.1	4	8.275	-0.002	204802	50.9	
Total CollAve (4 peaks):				56.7	Total Col2Ave (4 peaks):				40.7	RPD = 33	
Corrected Ave (3 peaks):				31.2	Corrected Ave (3 peaks):				37.3	RPD = 18	
Aroclor-1248	1	6.500	0.003	1497084	53.9	1	6.840	0.000	386720	51.5	
Aroclor-1248	2	7.473	-0.001	782861	26.8	2	7.747	0.001	236934	38.0	
Aroclor-1248	3	7.909	0.007	2878678	78.0	3	8.275	-0.001	204802	31.8	
Aroclor-1248	4	8.138	0.001	1549395	54.4	4	8.610	-0.012	486913	51.1	
Total CollAve (4 peaks):				53.3	Total Col2Ave (4 peaks):				43.1	RPD = 21	
Corrected Ave (3 peaks):				45.0	Corrected Ave (3 peaks):				40.3	RPD = 11	
Aroclor-1254	1	8.223	-0.002	3326410	88.4	1	8.340	-0.002	537848	97.9	
Aroclor-1254	2	8.597	0.000	2078182	84.0	2	8.515	-0.001	829255	119.5	
Aroclor-1254	3	8.729	-0.002	4601668	95.7	3	9.036	-0.002	309143	58.0	
Aroclor-1254	4	9.063	-0.017	7663809	145.6	4	9.187	-0.002	755870	64.6	
Aroclor-1254	5	9.390	-0.051	10521888	317.8	5	9.978	0.006	786287	111.6	
Total CollAve (5 peaks):				145.3	Total Col2Ave (5 peaks):				90.3	RPD = 47*	
Corrected Ave (4 peaks):				103.4	Corrected Ave (4 peaks):				83.0	RPD = 22	
Aroclor-1260	1	9.997	-0.002	4645660	137.4	1	10.301	-0.001	1003851	145.6	
Aroclor-1260	2	10.312	-0.003	4076046	119.9	2	10.750	-0.002	1307688	154.6	
Aroclor-1260	3	10.688	-0.001	12584277	156.1	3	11.026	-0.001	2560562	152.1	
Aroclor-1260	4	11.088	0.000	6684209	144.7	4	11.548	0.000	776413	153.1	
Aroclor-1260	5	11.277	-0.001	3287459	146.4	NS	---	---	---	---	
Total CollAve (5 peaks):				140.5	Total Col2Ave (4 peaks):				151.4	RPD = 7	
Corrected Ave (4 peaks):				137.1	Corrected Ave (3 peaks):				150.3	RPD = 9	
Aroclor-1262	1	9.997	0.000	4645660	91.8	1	10.301	-0.001	1003851	89.1	
Aroclor-1262	2	10.312	-0.001	4076046	106.1	2	10.750	-0.002	1307688	130.7	
Aroclor-1262	3	10.688	0.001	12584277	126.3	3	11.026	0.001	2560562	116.6	
Aroclor-1262	4	11.204	0.001	2751169	73.3	4	11.548	0.001	776413	87.4	
Aroclor-1262	5	11.277	0.002	3287459	79.8	5	12.347	0.000	792749	92.8	
Total CollAve (5 peaks):				95.5	Total Col2Ave (5 peaks):				103.3	RPD = 8	
Corrected Ave (4 peaks):				87.7	Corrected Ave (4 peaks):				96.5	RPD = 10	
Aroclor-1268	1	11.204	0.001	2751169	27.2	1	11.548	0.000	776413	34.6	

Aroclor-1268 2	11.277	0.002	3287459	33.9	2	11.606	-0.007	1822296	83.6
Aroclor-1268 3	11.677	0.016	1531763	17.9	3	12.015	0.004	56270	3.1
Aroclor-1268 4	12.451	0.003	800690	3.3	4	12.833	-0.001	156336	2.9
Total Col1Ave (4 peaks):			20.6	Total Col2Ave (4 peaks):			31.0	RPD = 41*	
Corrected Ave (3 peaks):			16.2	Corrected Ave (3 peaks):			13.5	RPD = 18	

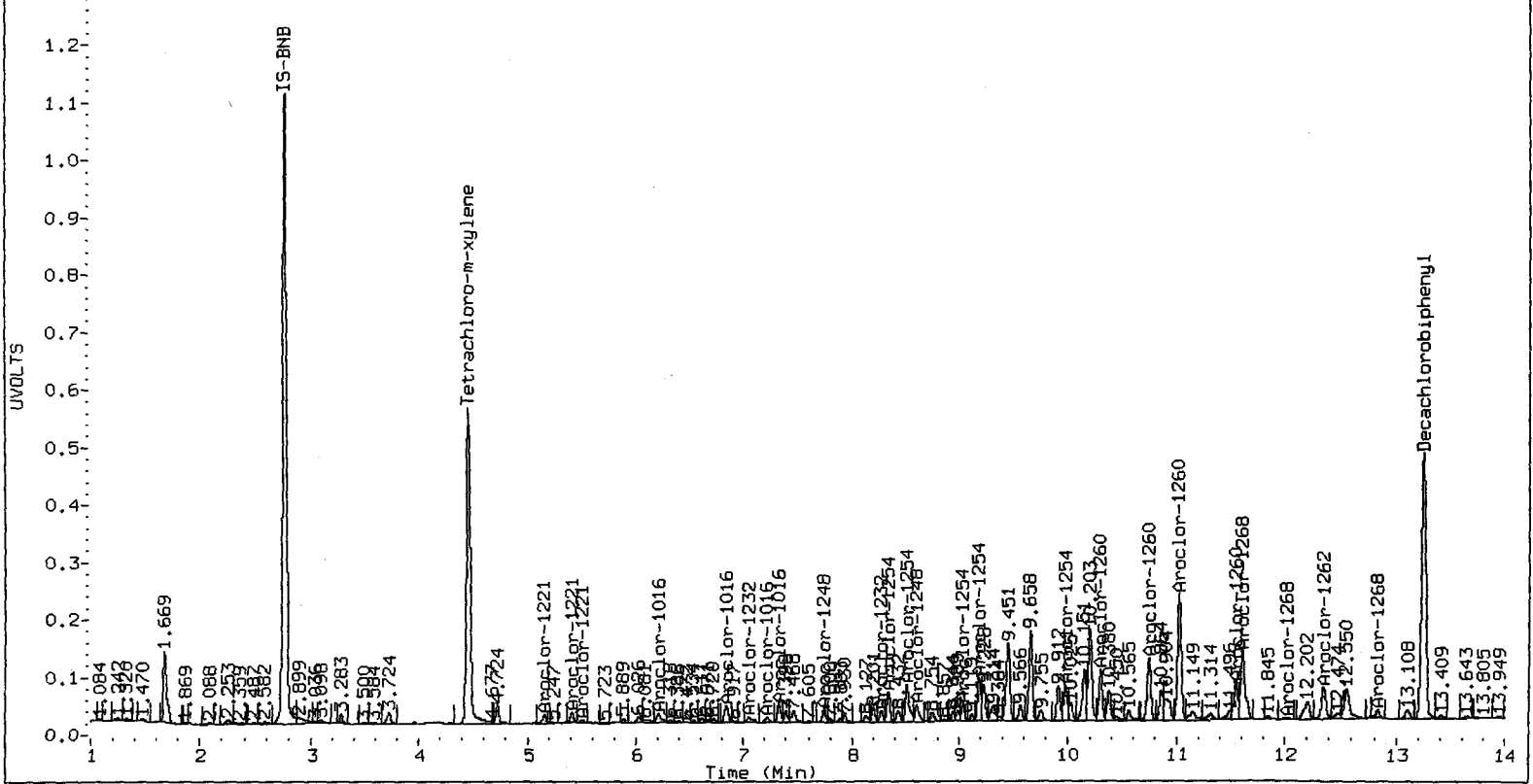
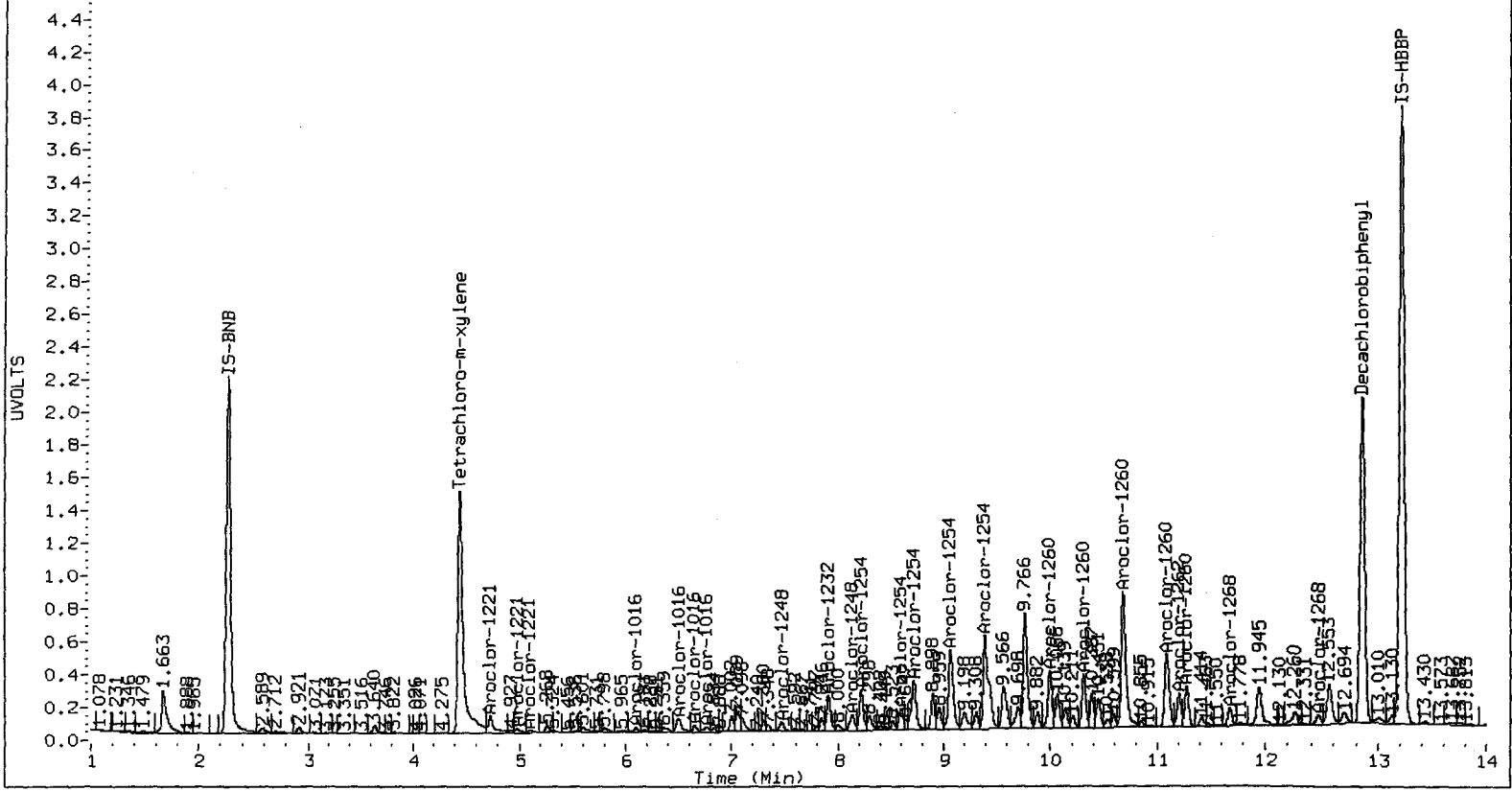
Total PCB Area Col1 (4.549 - 12.758) = 139391070 Col1 Total PCB = 0.3 ppm*

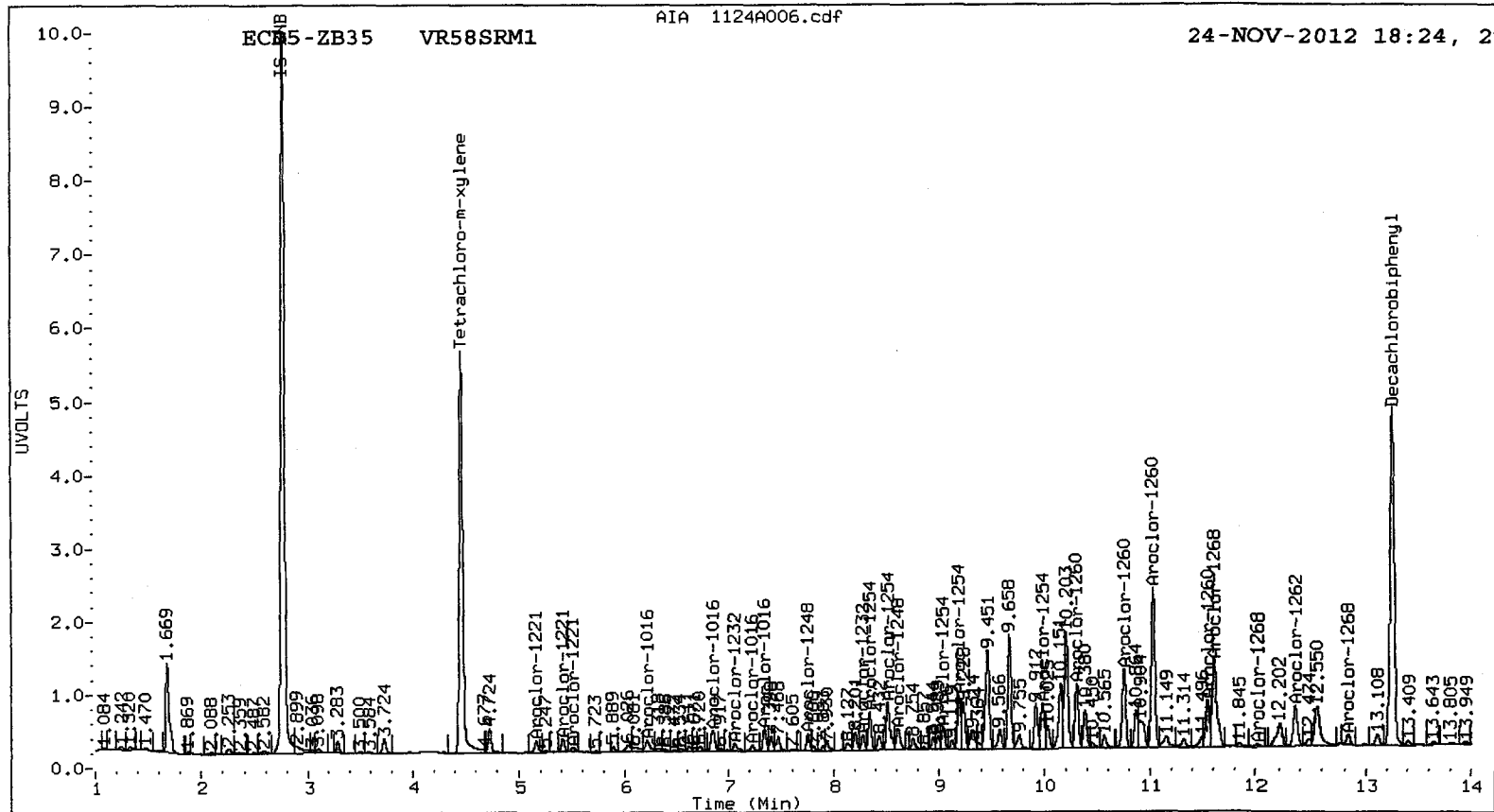
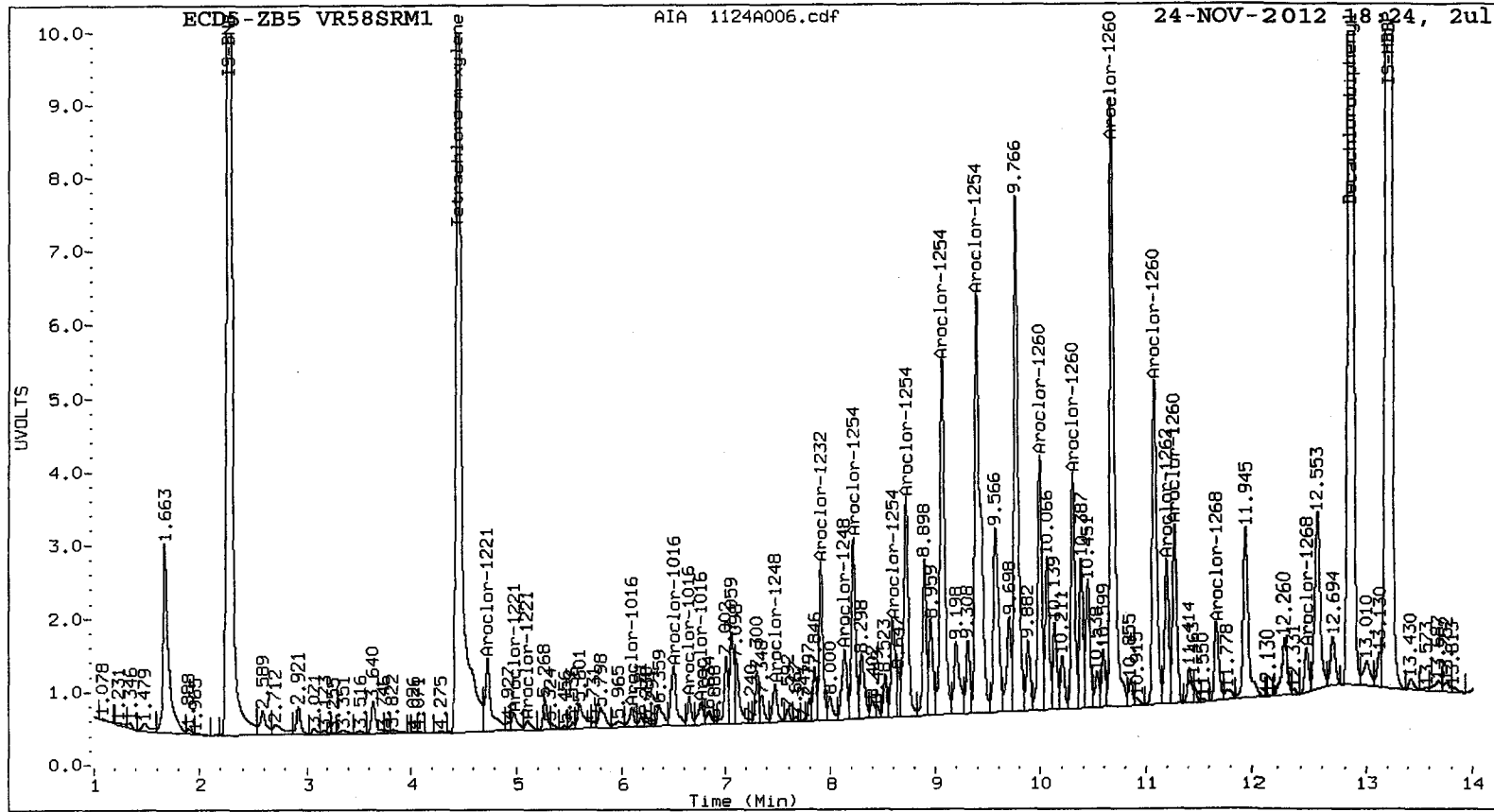
Total PCB Area Col2 (4.556 - 13.149) = 31428155 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01500





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A013.d
Data file 2: 20121102.B/1124-2.b/1124A013.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 24-NOV-2012 20:47
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.448	-0.001	18683013	4.456	-0.001	4972071	19.6	20.9	6.3	Tetrachloro-m-xylene
12.857	-0.001	21314030	13.248	-0.001	4347965	18.9	19.6	3.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.1	52.3
Decachlorobiphenyl	47.2	48.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	45534261	45.7
Hexabromobiphenyl	64198300	74975377	16.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	16671907	14.7
Hexabromobiphenyl	15789428	16359032	3.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	6.497	0.000	9655592	240.7	1	6.840	0.000	2353428	237.8	
Aroclor-1248	2	7.473	0.000	10060940	238.2	2	7.746	0.000	2145557	261.4	
Aroclor-1248	3	7.902	0.000	12644578	237.1	3	8.276	0.000	2196999	259.1	
Aroclor-1248	4	8.137	0.000	9800685	238.4	4	8.622	0.000	2714057	258.7	
Total Col1Ave (4 peaks):				238.6		Total Col2Ave (4 peaks):				254.2	RPD = 6
Corrected Ave (3 peaks):				237.9		Corrected Ave (3 peaks):				251.9	RPD = 6

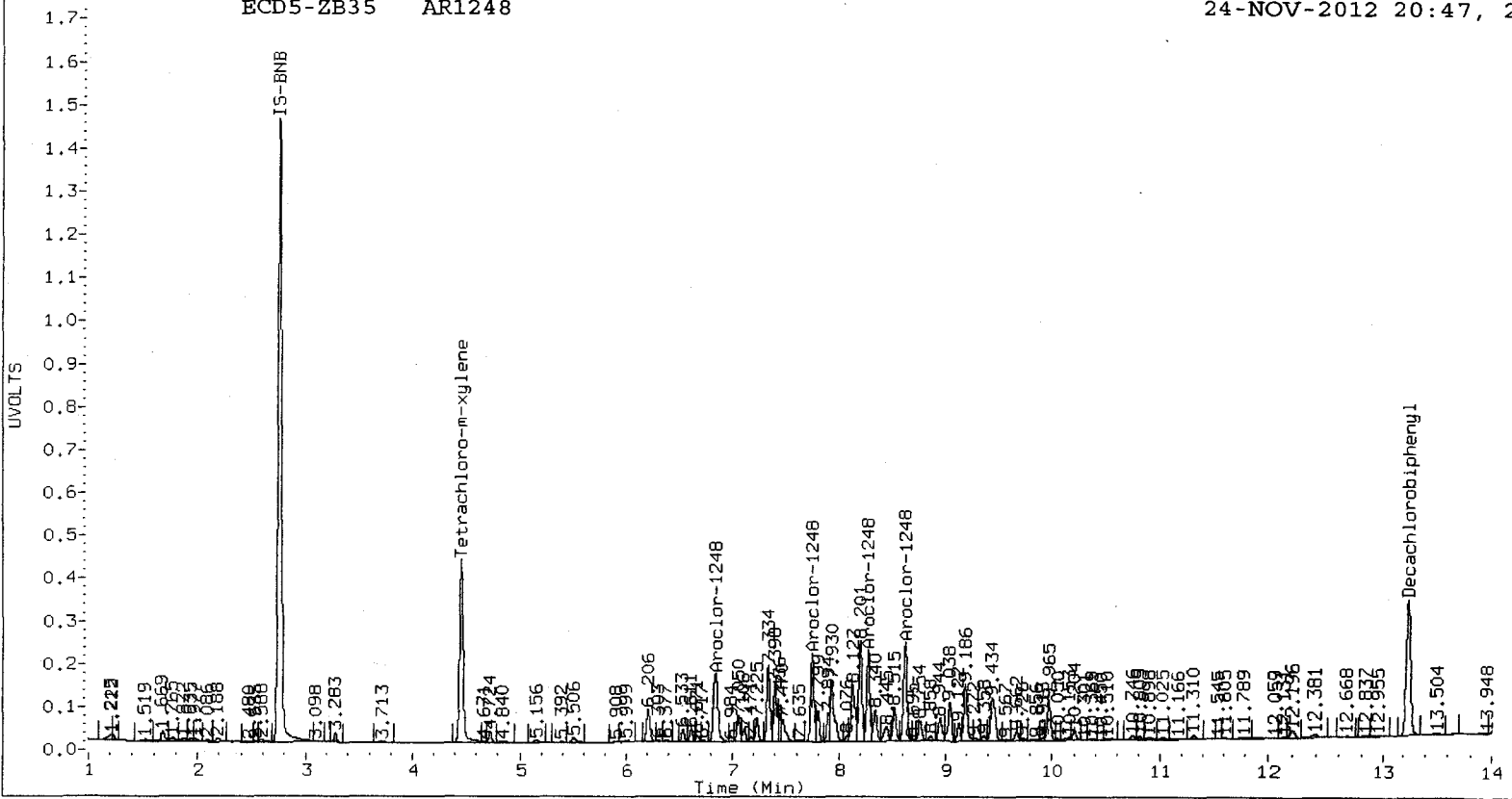
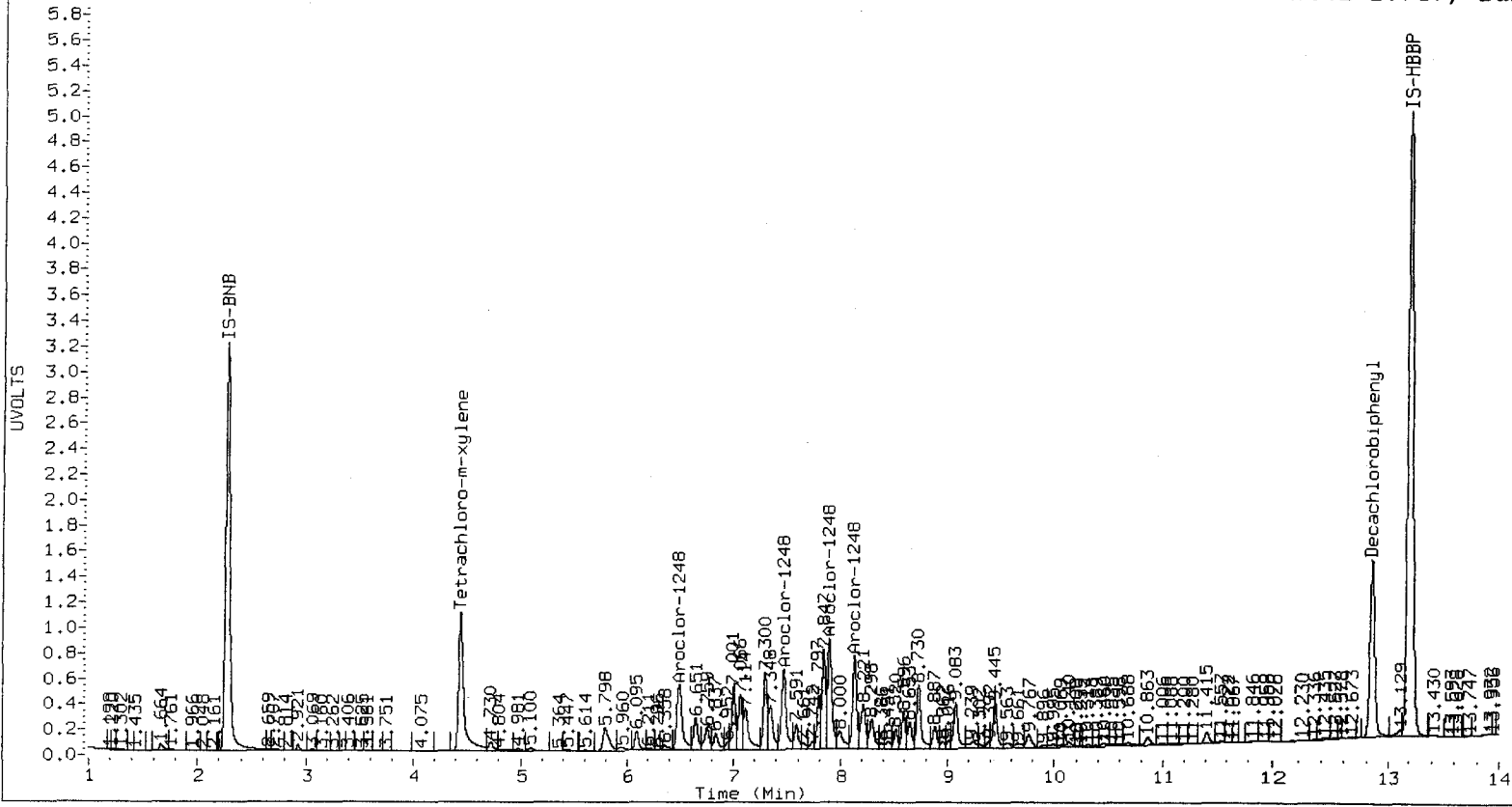
Total PCB Area Col1 (4.549 - 12.758) = 165462760

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 36739458

Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A014.d
Data file 2: 20121102.B/1124-2.b/1124A014.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 24-NOV-2012 21:07
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	14563464	4.456	0.000	3680750	19.4	20.0	2.6	Tetrachloro-m-xylene
12.857	-0.001	17620351	13.247	-0.002	3520534	19.0	19.8	3.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.6	49.9
Decachlorobiphenyl	47.6	49.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	35866199	14.8
Hexabromobiphenyl	64198300	61427637	-4.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12941087	-11.0
Hexabromobiphenyl	15789428	13112388	-17.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.095	-0.001	4571206	228.0	1	6.210	0.000	1768384	243.9
Aroclor-1016	2	6.500	-0.001	14812656	237.0	2	6.841	-0.002	3771514	245.9
Aroclor-1016	3	6.649	-0.001	6298436	233.6	3	7.226	-0.001	1003866	251.6
Aroclor-1016	4	6.760	-0.001	4706609	244.0	4	7.335	-0.002	1105953	246.5
Total Col1Ave (4 peaks):				235.7	Total Col2Ave (4 peaks):				247.0	RPD = 5
Corrected Ave (3 peaks):				232.9	Corrected Ave (3 peaks):				245.4	RPD = 5
Aroclor-1260	1	9.997	-0.002	9128861	255.7	1	10.302	0.000	1865984	266.6
Aroclor-1260	2	10.313	-0.001	8997523	250.7	2	10.751	-0.001	2324550	270.6
Aroclor-1260	3	10.688	0.000	21618935	254.1	3	11.026	-0.001	4688204	274.3
Aroclor-1260	4	11.087	-0.001	11601471	237.9	4	11.547	-0.001	1356100	263.3
Aroclor-1260	5	11.277	-0.001	5797120	244.7	NS	---			----
Total Col1Ave (5 peaks):				248.6	Total Col2Ave (4 peaks):				268.7	RPD = 8
Corrected Ave (4 peaks):				246.8	Corrected Ave (3 peaks):				266.8	RPD = 8

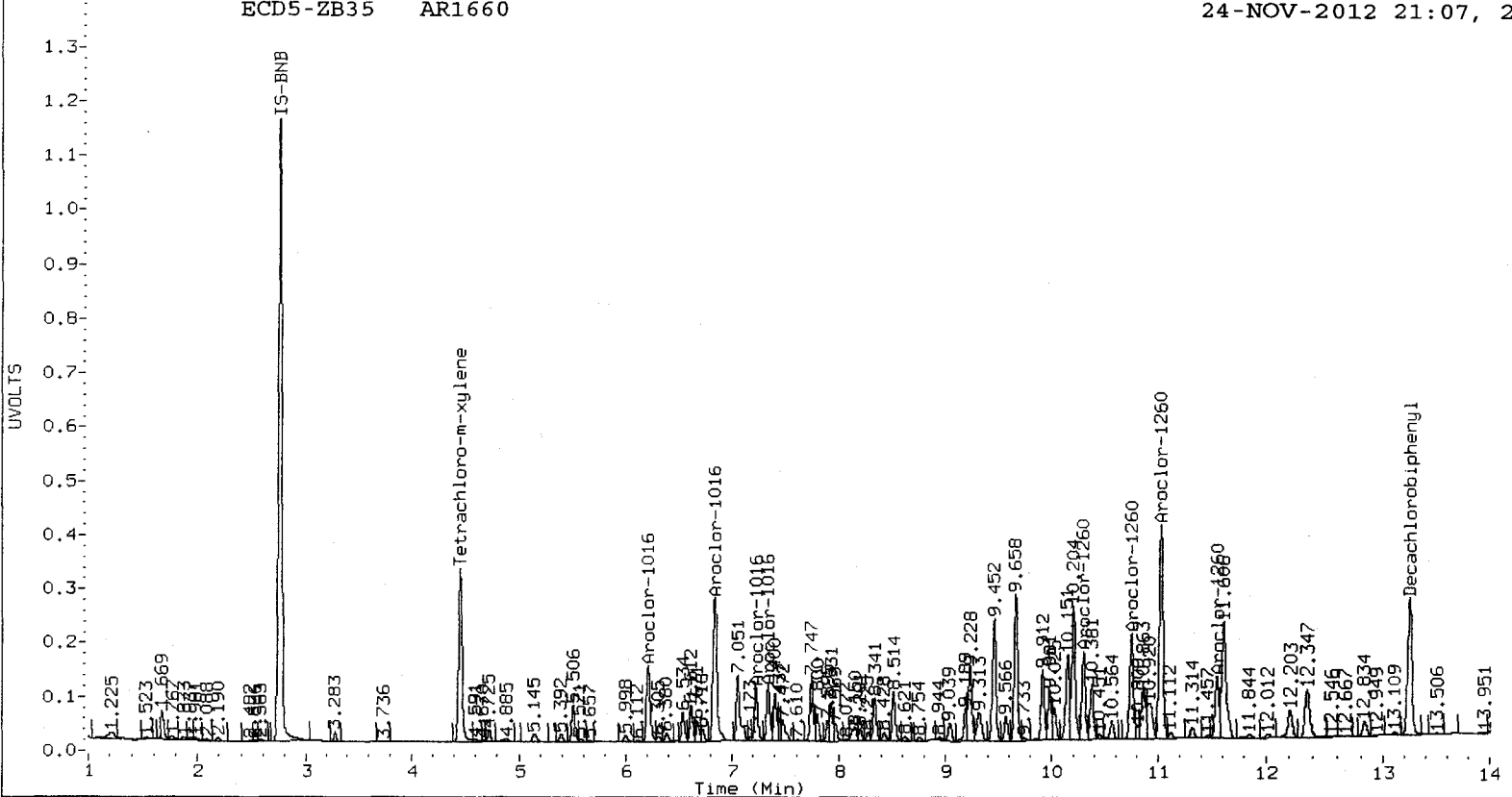
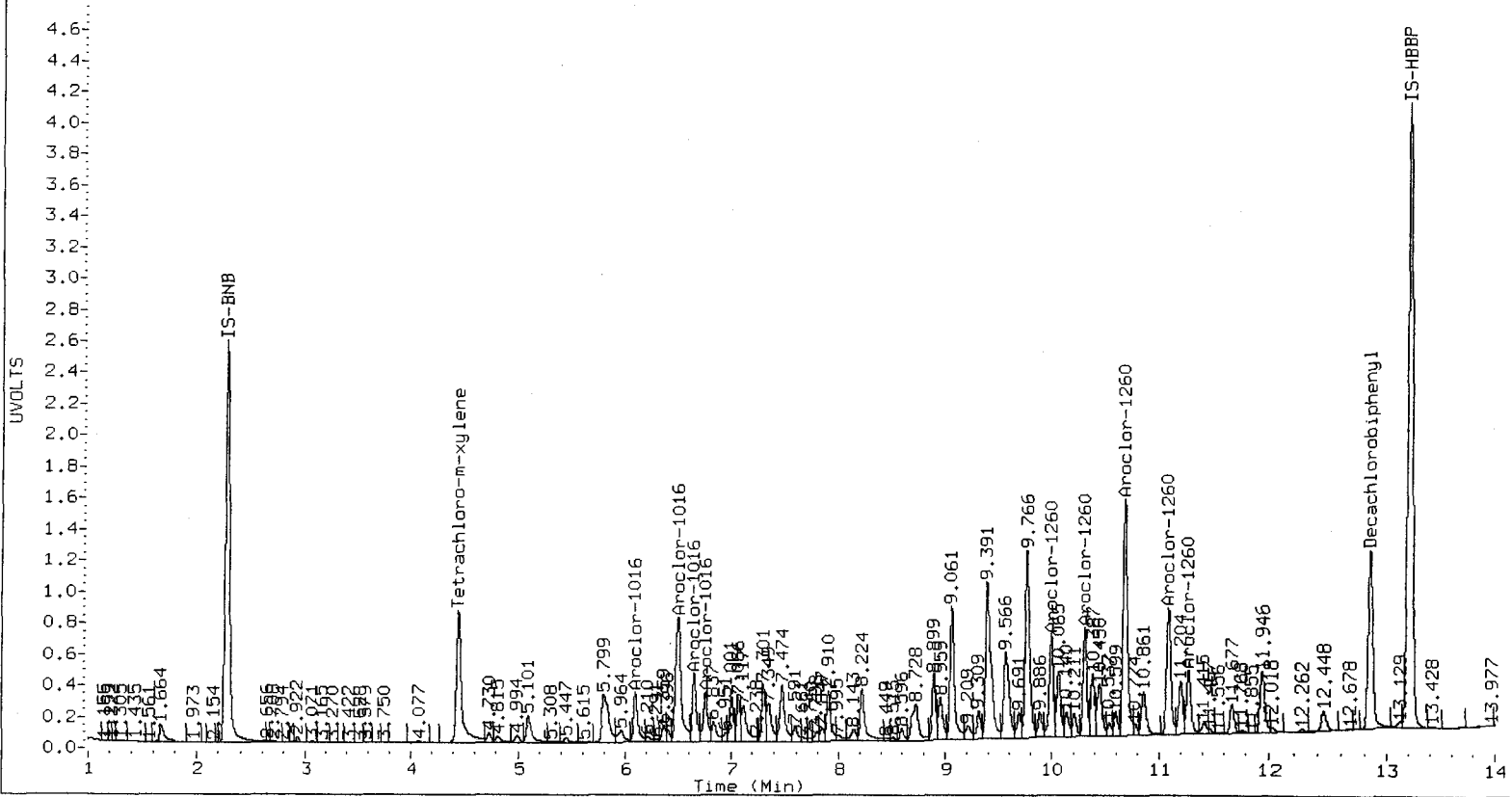
Total PCB Area Col1 (4.549 - 12.758) = 276981595

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 59552265

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A021.d
Data file 2: 20121102.B/1124-2.b/1124A021.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82A
Client ID: SG-02-S-C-121108
Injection Date: 24-NOV-2012 23:29
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	22590717	4.458	0.001	5682373	29.7	31.1	4.6	Tetrachloro-m-xylene
12.858	0.000	25884111	13.248	-0.001	5588406	27.8	31.4	12.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.2	77.7
Decachlorobiphenyl	69.4	78.6

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36443218	16.6
Hexabromobiphenyl	64198300	61884515	-3.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12824160	-11.8
Hexabromobiphenyl	15789428	13088622	-17.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.090	-0.006	768443	37.7	1	6.198	-0.012	236506	32.9
Aroclor-1016	2	6.502	0.001	1374328	21.6	2	6.845	0.002	267116	17.6
Aroclor-1016	3	6.656	0.006	518496	18.9	3	7.226	0.000	32171	8.1
Aroclor-1016	4	6.734	-0.027	538738	27.5	4	7.335	-0.002	358419	80.6
Total CollAve (4 peaks):				26.4		Total Col2Ave (4 peaks):				34.8 RPD = 27
Corrected Ave (3 peaks):				22.7		Corrected Ave (3 peaks):				19.5 RPD = 15
Aroclor-1221	1	4.730	-0.086	1915648	215.3	1	5.160	0.019	272609	125.5
Aroclor-1221	2	4.980	-0.014	380554	62.5	2	5.410	0.017	221100	172.8
Aroclor-1221	3	5.116	0.015	273508	13.8	3	5.489	-0.018	625721	155.5
Aroclor-1221	NS	---	---	---	---	4	5.575	0.000	55476	79.9
Total CollAve (3 peaks):				97.2		Total Col2Ave (4 peaks):				133.4 RPD = 31
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				120.3
Aroclor-1232	1	6.090	-0.004	768443	92.6	1	6.198	-0.012	236506	74.3
Aroclor-1232	2	6.502	0.004	1374328	53.0	2	6.845	0.004	267116	42.6
Aroclor-1232	3	6.656	0.009	518496	45.8	3	7.056	0.006	118056	45.0
Aroclor-1232	4	7.908	0.007	3311239	233.5	4	8.275	-0.001	429294	192.9
Total CollAve (4 peaks):				106.2		Total Col2Ave (4 peaks):				88.7 RPD = 18
Corrected Ave (3 peaks):				63.8		Corrected Ave (3 peaks):				54.0 RPD = 17
Aroclor-1242	1	6.090	-0.006	768443	48.5	1	6.198	-0.012	236506	43.2
Aroclor-1242	2	6.502	0.001	1374328	28.0	2	6.845	0.003	267116	22.9
Aroclor-1242	3	6.656	0.006	518496	24.3	3	7.056	0.005	118056	24.4
Aroclor-1242	4	7.908	0.005	3311239	132.4	4	8.275	-0.001	429294	105.2
Total CollAve (4 peaks):				58.3		Total Col2Ave (4 peaks):				48.9 RPD = 17
Corrected Ave (3 peaks):				33.6		Corrected Ave (3 peaks):				30.2 RPD = 11
Aroclor-1248	1	6.502	0.005	1374328	42.8	1	6.845	0.005	267116	35.1
Aroclor-1248	2	7.472	-0.001	1113246	32.9	2	7.748	0.002	252446	40.0
Aroclor-1248	3	7.908	0.006	3311239	77.6	3	8.275	-0.001	429294	65.8
Aroclor-1248	4	8.128	-0.009	3316539	100.8	4	8.611	-0.011	693465	85.9
Total CollAve (4 peaks):				63.5		Total Col2Ave (4 peaks):				56.7 RPD = 11
Corrected Ave (3 peaks):				51.1		Corrected Ave (3 peaks):				47.0 RPD = 8
Aroclor-1254	1	8.222	-0.002	3809381	87.5	1	8.342	0.000	472318	84.8
Aroclor-1254	2	8.618	0.021	6291727	220.0	2	8.519	0.004	1425144	202.6
Aroclor-1254	3	8.730	-0.001	5298494	95.3	3	9.045	0.006	17172307	3178.3
Aroclor-1254	4	9.078	-0.002	5230917	86.0	4	9.187	-0.001	1213913	102.4
Aroclor-1254	5	9.438	-0.003	3437971	89.8	5	9.973	0.001	619439	86.8
Total CollAve (5 peaks):				115.7		Total Col2Ave (5 peaks):				731.0 RPD = 145*
Corrected Ave (4 peaks):				89.7		Corrected Ave (4 peaks):				129.2 RPD = 28
Aroclor-1260	1	9.997	-0.001	1130386	31.4	1	10.301	0.000	253914	36.3
Aroclor-1260	2	10.315	0.000	990785	27.4	2	10.749	-0.004	568861	56.3
Aroclor-1260	3	10.655	-0.033	7142695	83.3	3	11.027	0.001	622669	36.5
Aroclor-1260	4	11.087	-0.001	1797364	36.6	4	11.546	-0.001	147427	28.7
Aroclor-1260	5	11.275	-0.003	934338	39.1	NS	---	---	---	---
Total CollAve (5 peaks):				43.6		Total Col2Ave (4 peaks):				42.0 RPD = 4
Corrected Ave (4 peaks):				33.6		Corrected Ave (3 peaks):				33.8 RPD = 1
Aroclor-1262	1	9.997	0.001	1130386	21.0	1	10.301	0.000	253914	22.2
Aroclor-1262	2	10.315	0.002	990785	24.2	2	10.749	-0.004	568861	56.1
Aroclor-1262	3	10.655	-0.031	7142695	67.4	3	11.027	0.002	622669	28.0
Aroclor-1262	4	11.206	0.004	770213	19.3	4	11.546	0.000	147427	16.4
Aroclor-1262	5	11.275	-0.001	934338	21.3	5	12.394	0.047	535241	61.8
Total CollAve (5 peaks):				30.7		Total Col2Ave (5 peaks):				36.9 RPD = 18
Corrected Ave (4 peaks):				21.5		Corrected Ave (4 peaks):				30.7 RPD = 35
Aroclor-1268	1	11.206	0.003	770213	7.2	1	11.546	-0.001	147427	6.5

Aroclor-1268 2	11.275	0.000	934338	9.0	2	11.610	-0.004	547080	24.7
Aroclor-1268 3	11.720	0.059	2108260	23.2	3	11.983	-0.028	84074	4.5
Aroclor-1268 4	12.454	0.006	226031	0.9	4	12.928	0.093	150708	2.8
Total Col1Ave (4 peaks):			10.1	Total Col2Ave (4 peaks):			9.6	RPD = 5	
Corrected Ave (3 peaks):			5.7	Corrected Ave (3 peaks):			4.6	RPD = 21	

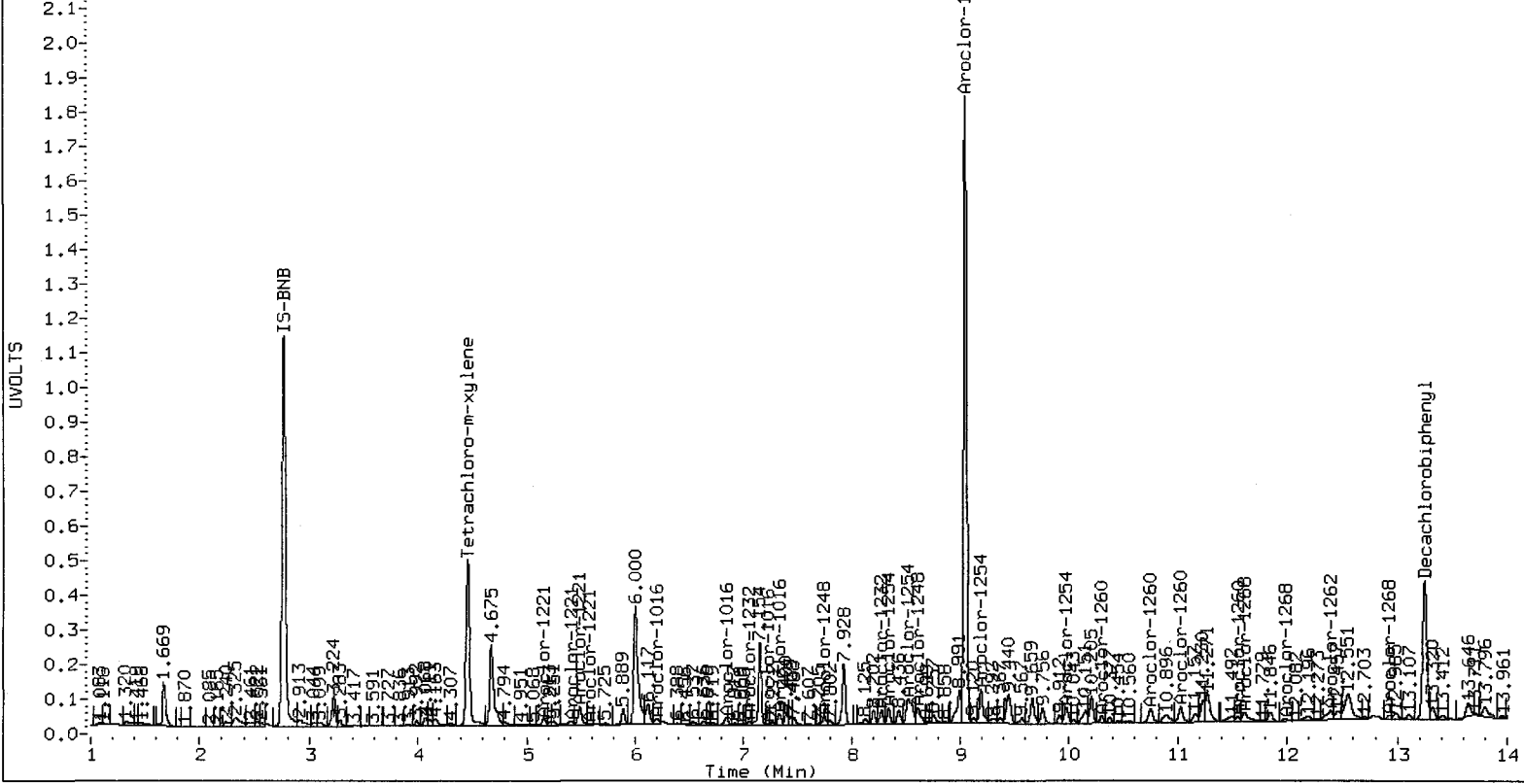
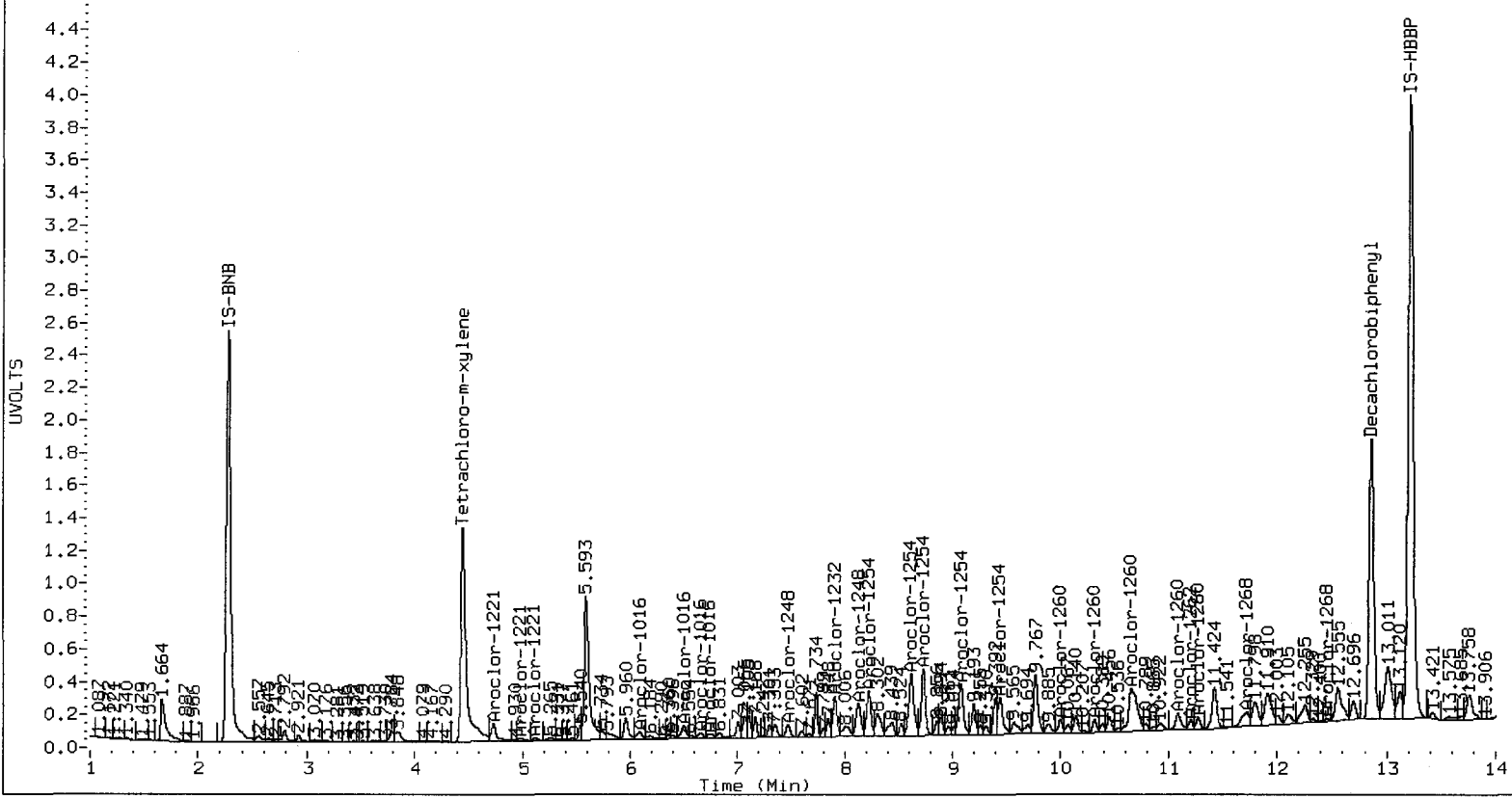
Total PCB Area Col1 (4.549 - 12.758) = 138359653 Col1 Total PCB = 0.2 ppm*

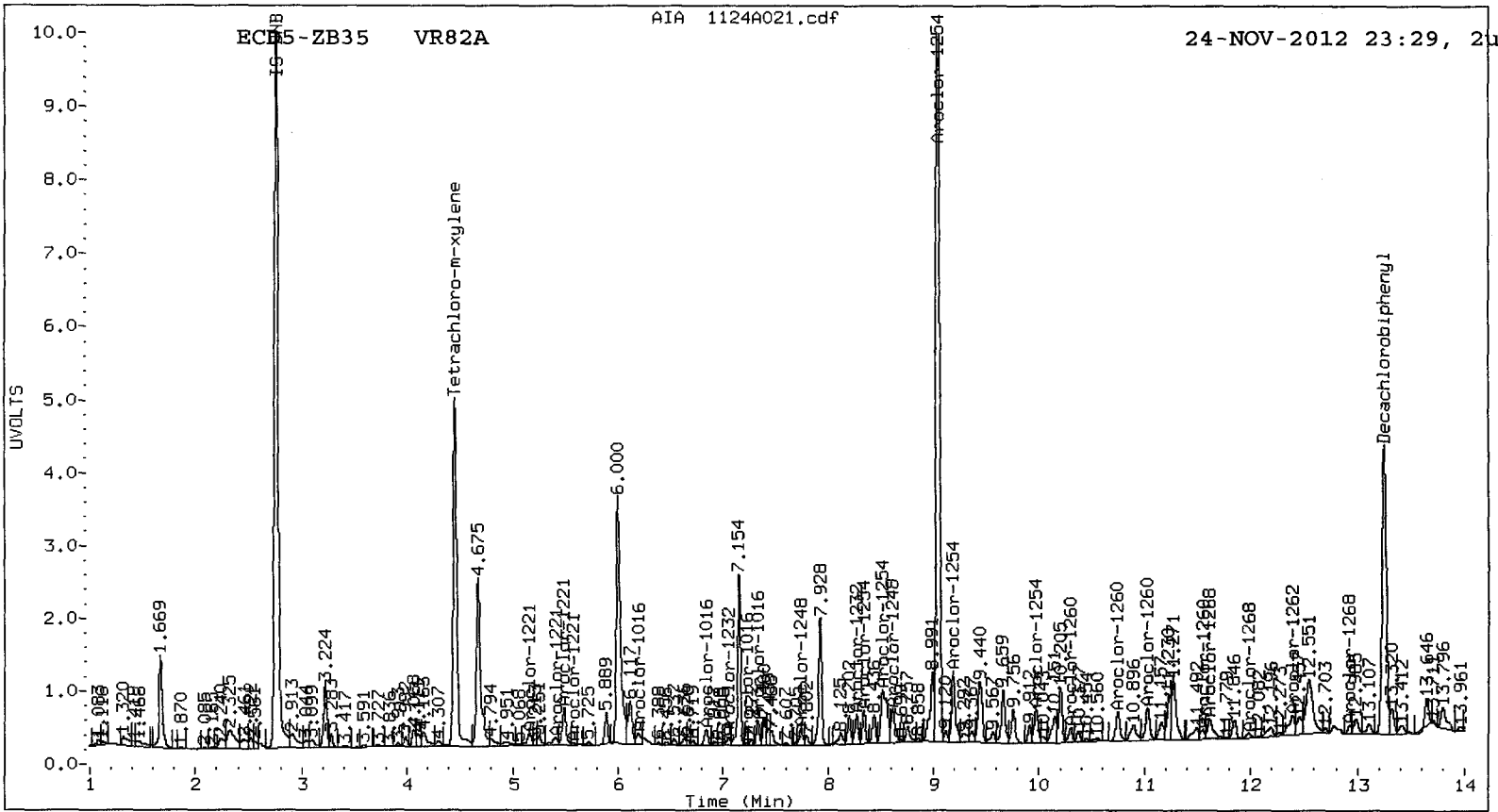
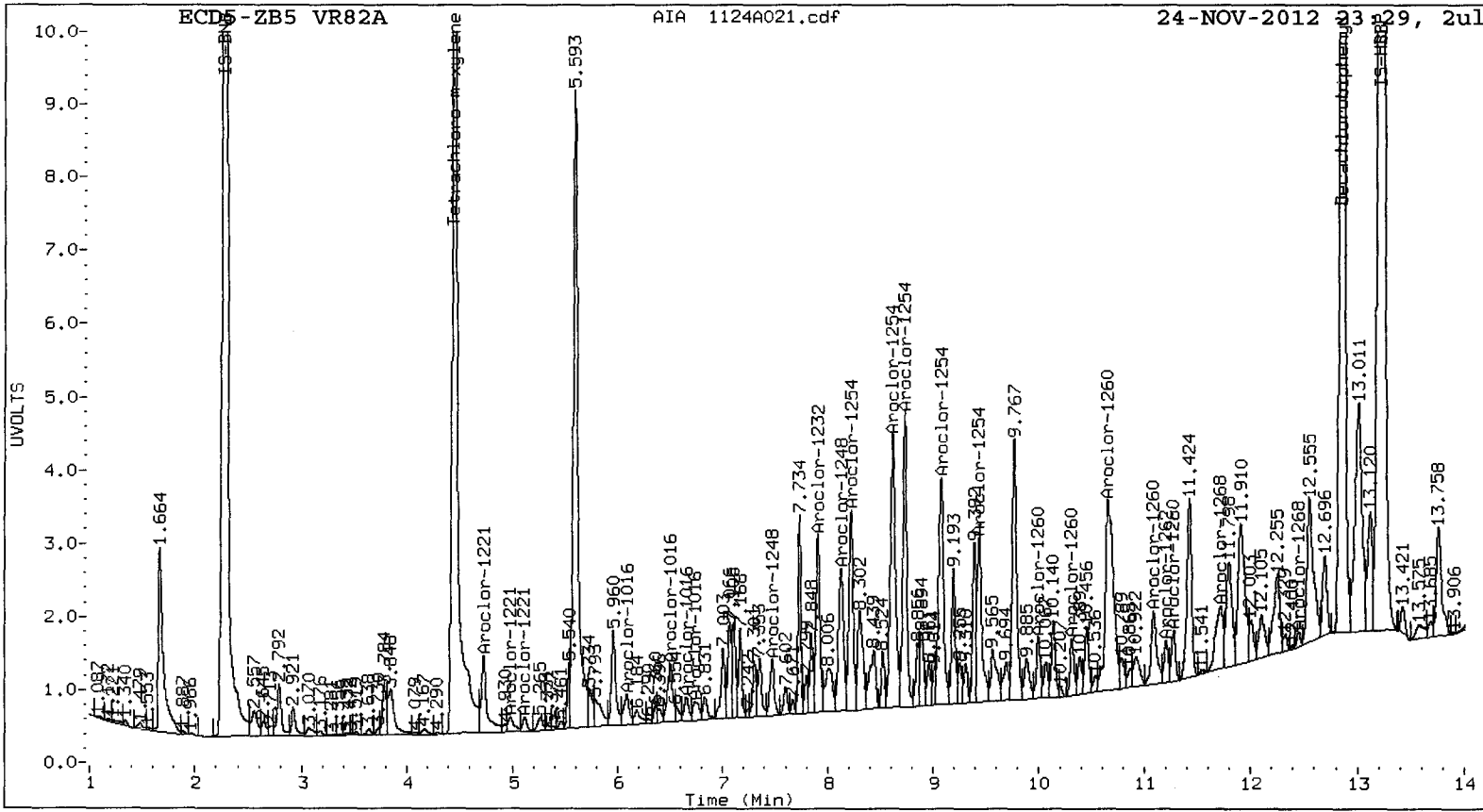
Total PCB Area Col2 (4.556 - 13.149) = 57597495 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01579





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A022.d
Data file 2: 20121102.B/1124-2.b/1124A022.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82B
Client ID: SG-03-S-C-121108
Injection Date: 24-NOV-2012 23:50
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	22674161	4.456	0.000	5558662	30.3	31.0	2.1	Tetrachloro-m-xylene
12.858	0.000	25335071	13.248	0.000	5489786	27.9	31.4	11.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	75.9	77.5
Decachlorobiphenyl	69.8	78.5

JK 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	35781846	14.5
Hexabromobiphenyl	64198300	60235830	-6.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12586216	-13.4
Hexabromobiphenyl	15789428	12867378	-18.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.093	-0.003	774072	38.7	1	6.198	-0.012	292186	41.4	
Aroclor-1016	2	6.503	0.002	1791301	28.7	2	6.844	0.001	336709	22.6	
Aroclor-1016	3	6.661	0.011	566175	21.0	3	7.227	0.000	27974	7.2	
Aroclor-1016	4	6.736	-0.025	582573	30.3	4	7.336	-0.001	287925	66.0	
Total CollAve (4 peaks):				29.7		Total Col2Ave (4 peaks):				34.3	RPD = 14
Corrected Ave (3 peaks):				26.7		Corrected Ave (3 peaks):				23.7	RPD = 12
Aroclor-1221	1	4.731	-0.086	1880255	215.3	1	5.158	0.017	202079	94.8	
Aroclor-1221	2	4.980	-0.015	400351	66.9	2	5.411	0.019	113652	90.5	
Aroclor-1221	3	5.110	0.009	130964	6.7	3	5.490	-0.017	186685	47.3	
Aroclor-1221	NS	---	---	---	---	4	5.572	-0.003	48160	70.7	
Total CollAve (3 peaks):				96.3		Total Col2Ave (4 peaks):				75.8	RPD = 24
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				69.5	
Aroclor-1232	1	6.093	-0.001	774072	95.0	1	6.198	-0.012	292186	93.5	
Aroclor-1232	2	6.503	0.006	1791301	70.3	2	6.844	0.003	336709	54.7	
Aroclor-1232	3	6.661	0.013	566175	50.9	3	7.056	0.005	54642	21.2	
Aroclor-1232	4	7.907	0.006	1617202	116.1	4	8.274	-0.002	281147	128.7	
Total CollAve (4 peaks):				83.1		Total Col2Ave (4 peaks):				74.5	RPD = 11
Corrected Ave (3 peaks):				72.1		Corrected Ave (3 peaks):				56.5	RPD = 24
Aroclor-1242	1	6.093	-0.003	774072	49.7	1	6.198	-0.012	292186	54.4	
Aroclor-1242	2	6.503	0.002	1791301	37.1	2	6.844	0.002	336709	29.4	
Aroclor-1242	3	6.661	0.011	566175	27.0	3	7.056	0.004	54642	11.5	
Aroclor-1242	4	7.907	0.004	1617202	65.9	4	8.274	-0.002	281147	70.2	
Total CollAve (4 peaks):				44.9		Total Col2Ave (4 peaks):				41.4	RPD = 8
Corrected Ave (3 peaks):				38.0		Corrected Ave (3 peaks):				31.8	RPD = 18
Aroclor-1248	1	6.503	0.006	1791301	56.8	1	6.844	0.004	336709	45.1	
Aroclor-1248	2	7.463	-0.010	753942	22.7	2	7.748	0.002	127022	20.5	
Aroclor-1248	3	7.907	0.005	1617202	38.6	3	8.274	-0.001	281147	43.9	
Aroclor-1248	4	8.117	-0.020	2830262	87.6	4	8.608	-0.014	220550	27.8	
Total CollAve (4 peaks):				51.4		Total Col2Ave (4 peaks):				34.3	RPD = 40
Corrected Ave (3 peaks):				39.4		Corrected Ave (3 peaks):				30.8	RPD = 25
Aroclor-1254	1	8.222	-0.003	1970976	46.1	1	8.341	-0.001	207725	38.0	
Aroclor-1254	2	8.620	0.023	5104502	181.8	2	8.554	0.039	1077685	156.1	
Aroclor-1254	3	8.730	-0.001	3344108	61.3	3	9.044	0.005	692847	130.7	
Aroclor-1254	4	9.077	-0.003	2563428	42.9	4	9.188	-0.001	779474	67.0	
Aroclor-1254	5	9.438	-0.003	1990616	53.0	5	9.973	0.002	319075	45.5	
Total CollAve (5 peaks):				77.0		Total Col2Ave (5 peaks):				87.5	RPD = 13
Corrected Ave (4 peaks):				50.8		Corrected Ave (4 peaks):				70.3	RPD = 32
Aroclor-1260	1	9.997	-0.001	601553	17.2	1	10.302	0.000	170340	24.8	
Aroclor-1260	2	10.317	0.002	683994	19.4	2	10.749	-0.003	406045	48.2	
Aroclor-1260	3	10.657	-0.032	2974415	35.6	3	11.027	0.001	364880	21.8	
Aroclor-1260	4	11.089	0.001	1142563	23.9	4	11.546	-0.002	72857	14.4	
Aroclor-1260	5	11.273	-0.004	696845	30.0	NS	---	---	---	---	
Total CollAve (5 peaks):				25.1		Total Col2Ave (4 peaks):				27.3	RPD = 8
Corrected Ave (4 peaks):				22.6		Corrected Ave (3 peaks):				20.3	RPD = 11
Aroclor-1262	1	9.997	0.001	601553	11.5	1	10.302	0.000	170340	15.2	
Aroclor-1262	2	10.317	0.005	683994	17.2	2	10.749	-0.003	406045	40.7	
Aroclor-1262	3	10.657	-0.030	2974415	28.8	3	11.027	0.003	364880	16.7	
Aroclor-1262	4	11.206	0.004	457721	11.8	4	11.546	-0.001	72857	8.2	
Aroclor-1262	5	11.273	-0.002	696845	16.3	5	12.390	0.044	343625	40.4	
Total CollAve (5 peaks):				17.1		Total Col2Ave (5 peaks):				24.2	RPD = 34
Corrected Ave (4 peaks):				14.2		Corrected Ave (4 peaks):				20.1	RPD = 34
Aroclor-1268	1	11.206	0.003	457721	4.4	1	11.546	-0.002	72857	3.3	

Aroclor-1268 2	11.273	-0.001	696845	6.9	2	11.610	-0.003	340730	15.7
Aroclor-1268 3	11.720	0.059	3348880	37.9	3	11.983	-0.029	68551	3.8
Aroclor-1268 4	12.453	0.005	147597	0.6	4	12.836	0.002	36151	0.7
Total Col1Ave (4 peaks):			12.5	Total Col2Ave (4 peaks):			5.8	RPD = 72*	
Corrected Ave (3 peaks):			4.0	Corrected Ave (3 peaks):			2.6	RPD = 43*	

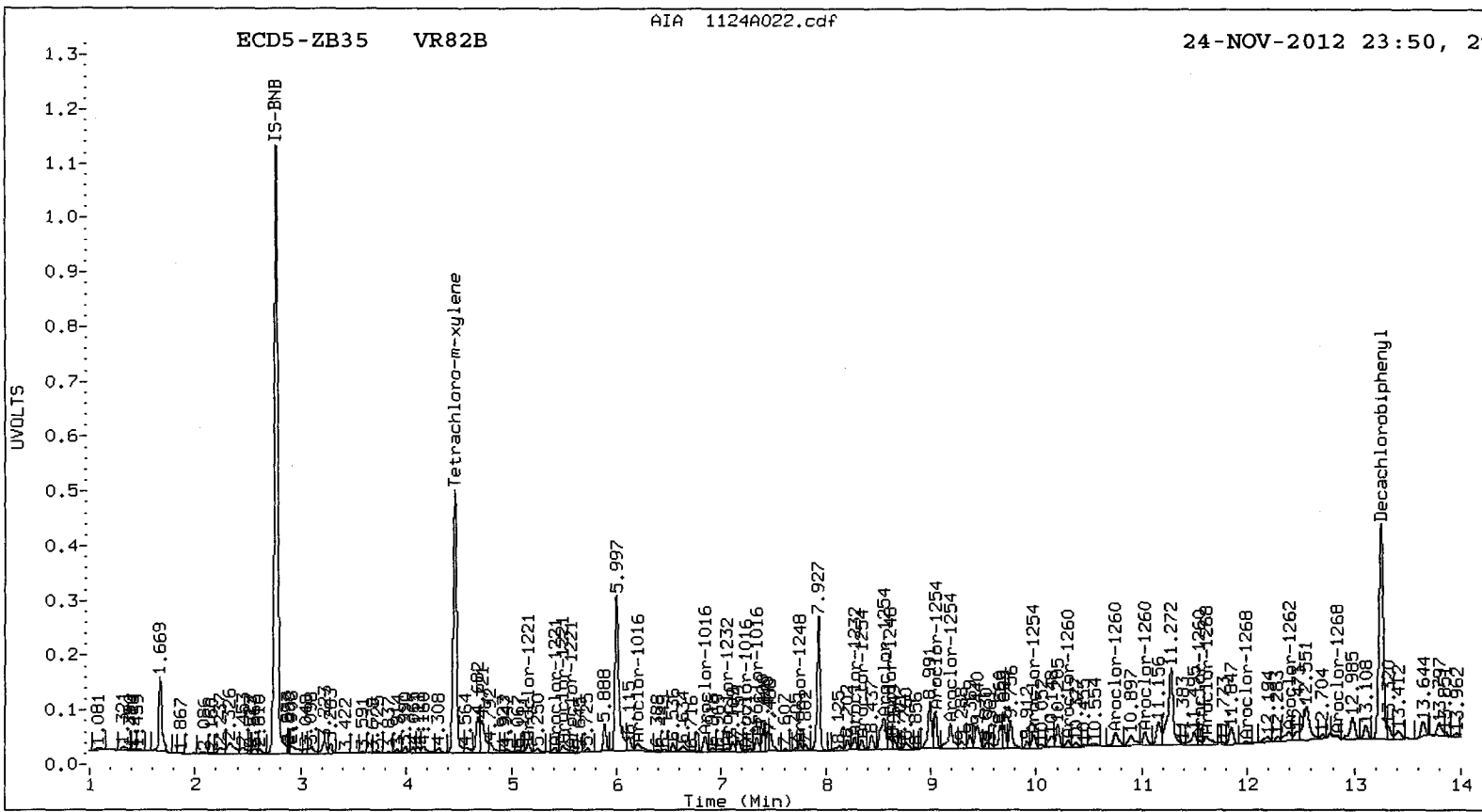
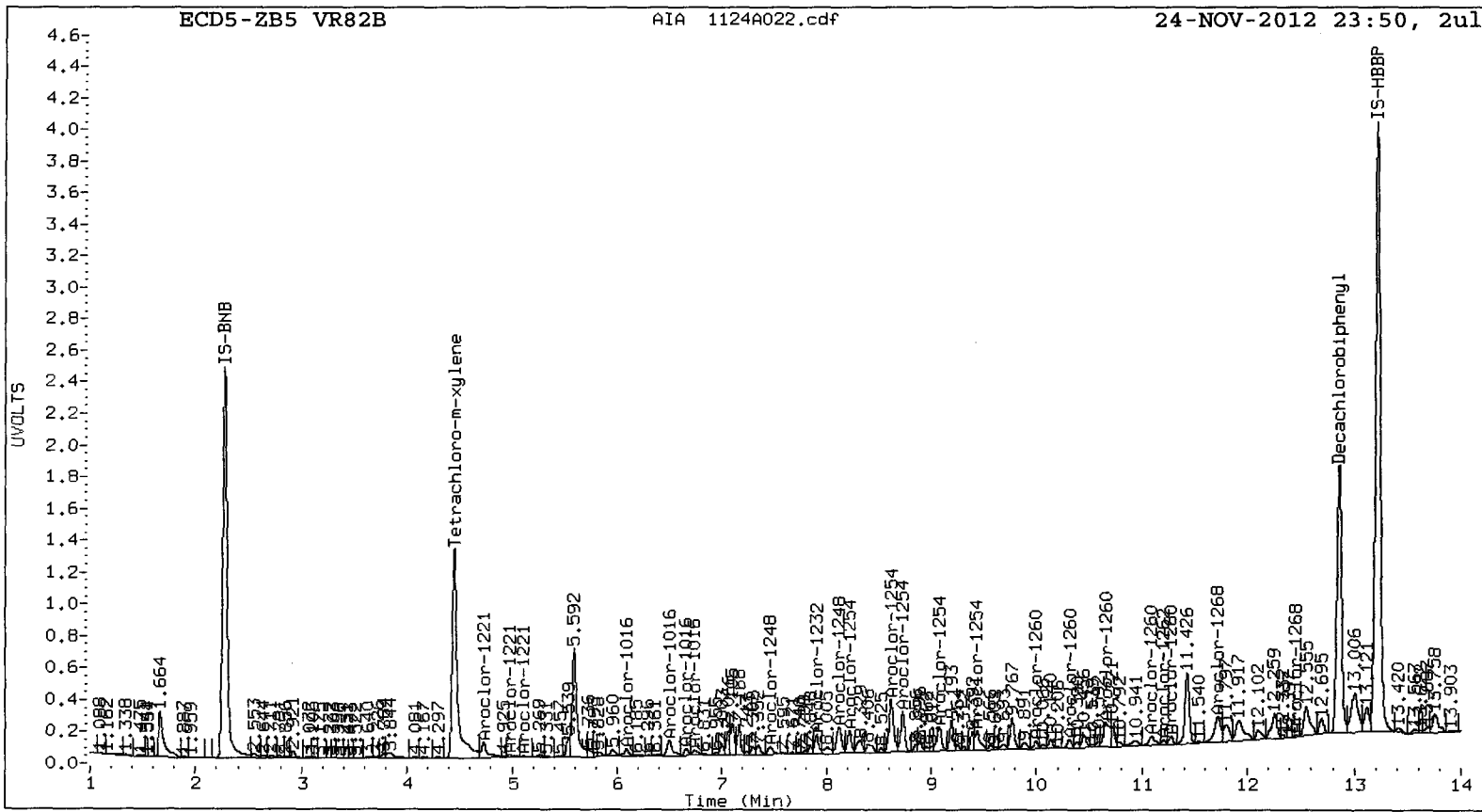
Total PCB Area Col1 (4.549 - 12.758) = 103992200 Col1 Total PCB = 0.2 ppm*

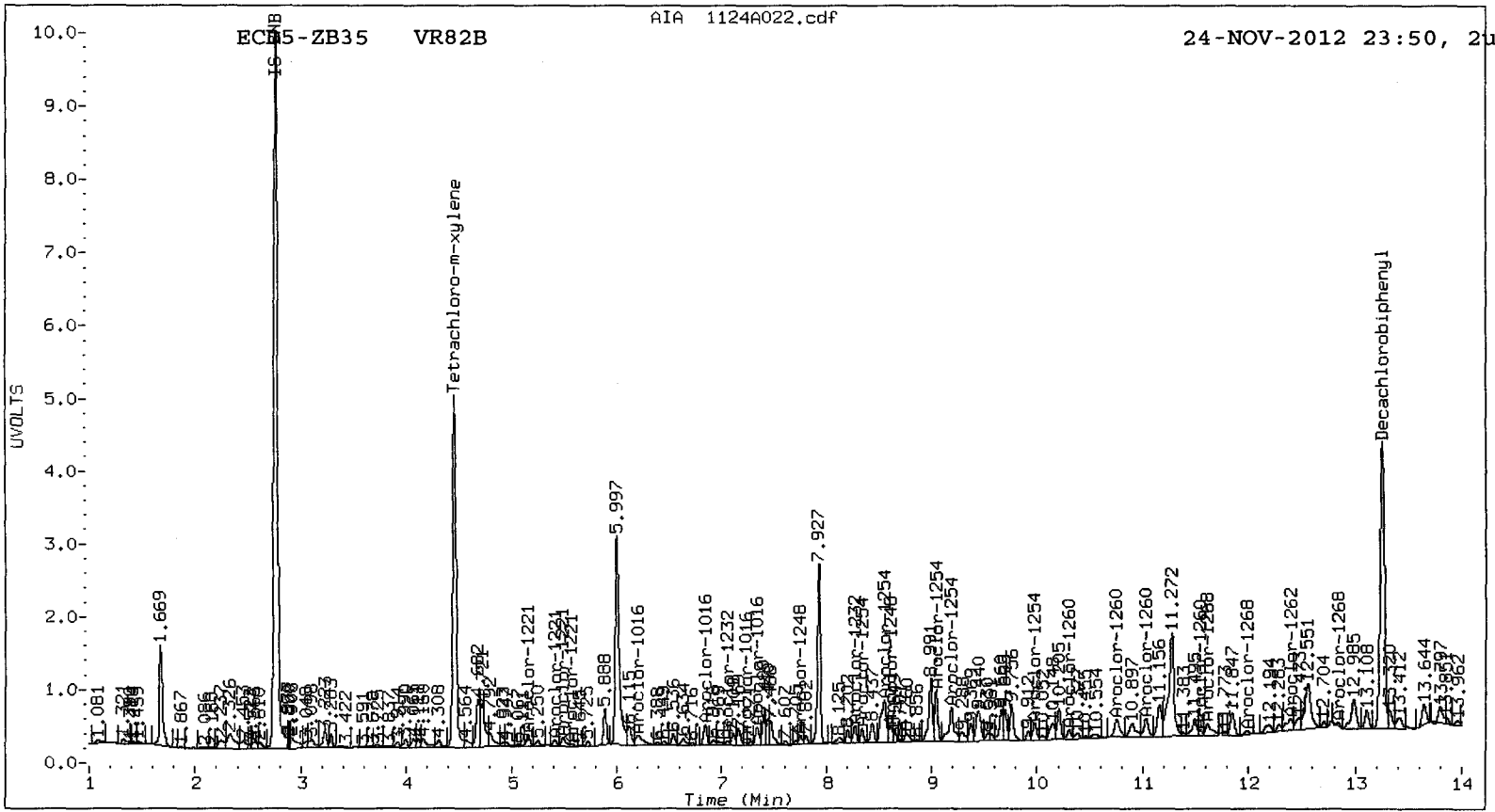
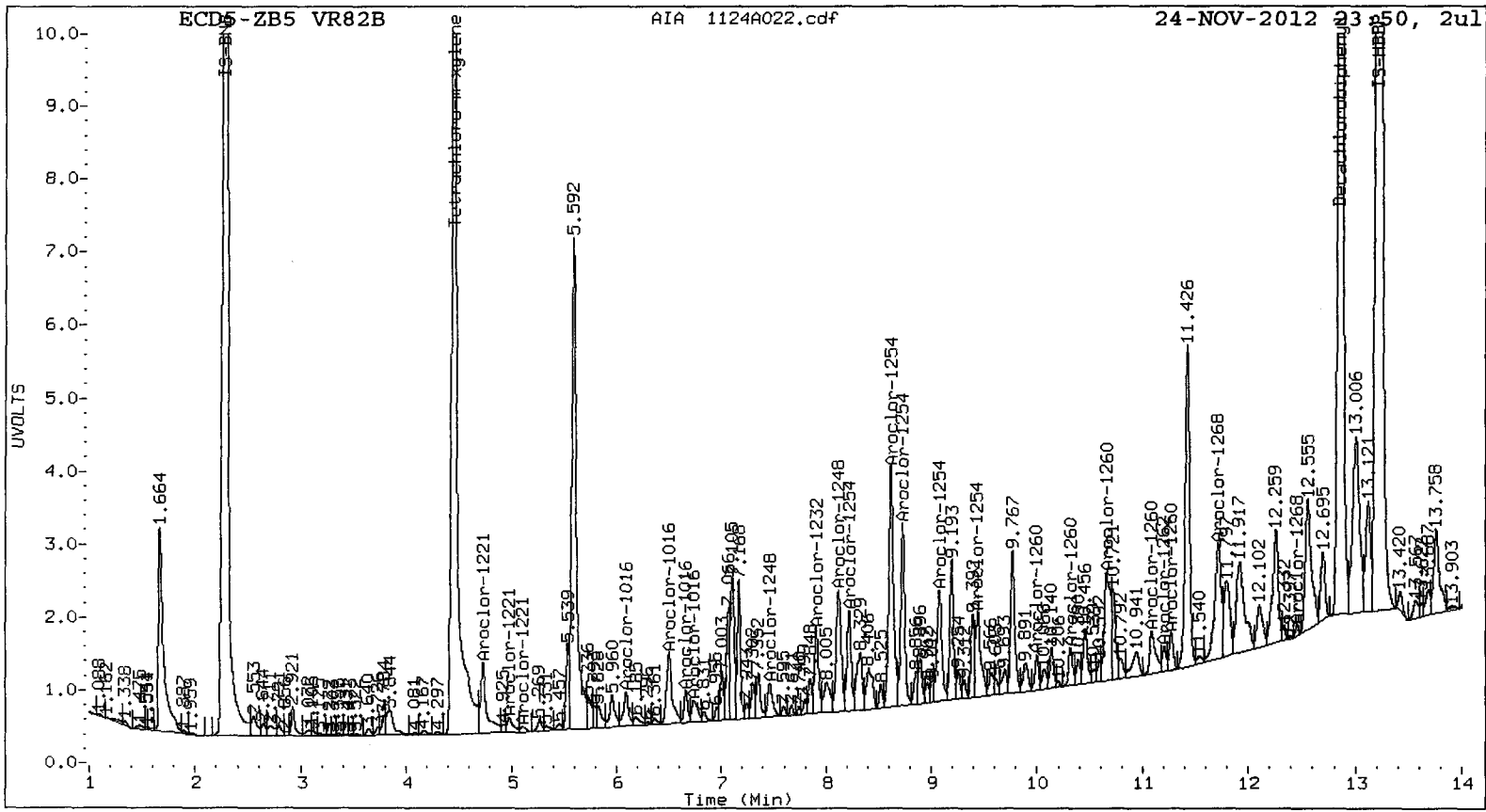
Total PCB Area Col2 (4.556 - 13.149) = 32750579 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82 : 01584





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A023.d
Data file 2: 20121102.B/1124-2.b/1124A023.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82C
Client ID: SG-04-S-C-121108
Injection Date: 25-NOV-2012 00:10
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	24697562	4.457	0.000	6021765	32.2	31.8	1.5	Tetrachloro-m-xylene
12.857	0.000	31063559	13.248	0.000	6130108	32.6	34.4	5.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.6	79.4
Decachlorobiphenyl	81.4	86.0

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	36676802	17.4
Hexabromobiphenyl	64198300	63321858	-1.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	13303582	-8.5
Hexabromobiphenyl	15789428	13118645	-16.9

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.088	-0.009	90983	4.4	1	6.194	-0.016	12058	1.6		
Aroclor-1016	2	6.486	-0.014	120560	1.9	2	6.835	-0.008	26893	1.7		
Aroclor-1016	3	6.658	0.008	27817	1.0	3	7.200	-0.026	22725	5.5		
Aroclor-1016	4	6.770	0.009	54909	2.8	4	7.353	0.017	87134	18.9		
Total CollAve (4 peaks):					2.5	Total Col2Ave (4 peaks):					6.9	RPD = 93*
Corrected Ave (3 peaks):					1.9	Corrected Ave (3 peaks):					3.0	RPD = 44*
Aroclor-1221	1	4.731	-0.085	2098298	234.4	1	5.161	0.020	158473	70.3		
Aroclor-1221	2	4.980	-0.015	384478	62.7	2	5.410	0.017	31657	23.8		
Aroclor-1221	3	5.091	-0.010	57826	2.9	3	5.514	0.007	38530	9.2		
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0		
Total CollAve (3 peaks):					100.0	Total Col2Ave (3 peaks):					34.5	RPD = 97*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks						
Aroclor-1232	1	6.088	-0.006	90983	10.9	1	6.194	-0.016	12058	3.7		
Aroclor-1232	2	6.486	-0.011	120560	4.6	2	6.835	-0.005	26893	4.1		
Aroclor-1232	3	6.658	0.011	27817	2.4	3	7.029	-0.022	12049	4.4		
Aroclor-1232	4	7.911	0.010	106266	7.4	4	8.342	0.066	10271	4.4		
Total CollAve (4 peaks):					6.3	Total Col2Ave (4 peaks):					4.2	RPD = 42*
Corrected Ave (3 peaks):					4.8	Corrected Ave (3 peaks):					4.1	RPD = 17
Aroclor-1242	1	6.088	-0.009	90983	5.7	1	6.194	-0.016	12058	2.1		
Aroclor-1242	2	6.486	-0.014	120560	2.4	2	6.835	-0.007	26893	2.2		
Aroclor-1242	3	6.658	0.008	27817	1.3	3	7.029	-0.023	12049	2.4		
Aroclor-1242	4	7.911	0.008	106266	4.2	4	8.342	0.066	10271	2.4		
Total CollAve (4 peaks):					3.4	Total Col2Ave (4 peaks):					2.3	RPD = 39
Corrected Ave (3 peaks):					2.7	Corrected Ave (3 peaks):					2.2	RPD = 16
Aroclor-1248	1	6.486	-0.011	120560	3.7	1	6.835	-0.005	26893	3.4		
Aroclor-1248	2	7.494	0.020	75509	2.2	2	---	---	---	0.0		
Aroclor-1248	3	7.911	0.009	106266	2.5	3	8.342	0.067	10271	1.5		
Aroclor-1248	4	8.111	-0.026	533522	16.1	4	8.651	0.029	26230	3.1		
Total CollAve (4 peaks):					6.1	Total Col2Ave (3 peaks):					2.7	RPD = 78*
Corrected Ave (3 peaks):					2.8	Corrected Ave: < 3 Peaks						
Aroclor-1254	1	8.220	-0.004	149887	3.4	1	8.342	0.001	10271	1.8		
Aroclor-1254	2	8.620	0.024	426044	14.8	2	8.555	0.040	190153	26.1		
Aroclor-1254	3	8.731	0.000	223970	4.0	3	9.041	0.002	24926	4.4		
Aroclor-1254	4	9.077	-0.003	190753	3.1	4	9.187	-0.002	40413	3.3		
Aroclor-1254	5	9.437	-0.004	122649	3.2	5	9.975	0.004	18423	2.5		
Total CollAve (5 peaks):					5.7	Total Col2Ave (5 peaks):					7.6	RPD = 29
Corrected Ave (4 peaks):					3.4	Corrected Ave (4 peaks):					3.0	RPD = 13
Aroclor-1260	1	9.998	0.000	61696	1.7	1	10.203	-0.098	36384	5.2		
Aroclor-1260	2	10.316	0.001	50848	1.4	2	10.749	-0.004	22471	2.6		
Aroclor-1260	3	10.721	0.033	535028	6.1	3	11.026	-0.001	41095	2.4		
Aroclor-1260	4	11.085	-0.003	100172	2.0	4	11.491	-0.056	56635	11.0		
Aroclor-1260	5	11.279	0.001	40567	1.7	NS	---	---	---	---		
Total CollAve (5 peaks):					2.6	Total Col2Ave (4 peaks):					5.3	RPD = 70*
Corrected Ave (4 peaks):					1.7	Corrected Ave (3 peaks):					3.4	RPD = 68*
Aroclor-1262	1	9.998	0.002	61696	1.1	1	10.203	-0.098	36384	3.2		
Aroclor-1262	2	10.316	0.003	50848	1.2	2	10.749	-0.004	22471	2.2		
Aroclor-1262	3	10.721	0.035	535028	4.9	3	11.026	0.001	41095	1.8		
Aroclor-1262	4	11.199	-0.003	48309	1.2	4	11.491	-0.055	56635	6.3		
Aroclor-1262	5	11.279	0.004	40567	0.9	5	12.336	-0.011	93055	10.7		
Total CollAve (5 peaks):					1.9	Total Col2Ave (5 peaks):					4.8	RPD = 89*
Corrected Ave (4 peaks):					1.1	Corrected Ave (4 peaks):					3.4	RPD = 101*
Aroclor-1268	1	11.199	-0.004	48309	0.4	1	11.491	-0.056	56635	2.5		

Aroclor-1268 2	11.279	0.004	40567	0.4	2	11.610	-0.003	12635	0.6	
Aroclor-1268 3	11.685	0.025	44425	0.5	3	---			0.0	
Aroclor-1268 4	---			0.0	4	12.923	0.088	11958	0.2	
Total Col1Ave (3 peaks):				0.4	Total Col2Ave (3 peaks):				1.1	RPD = 86*
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					

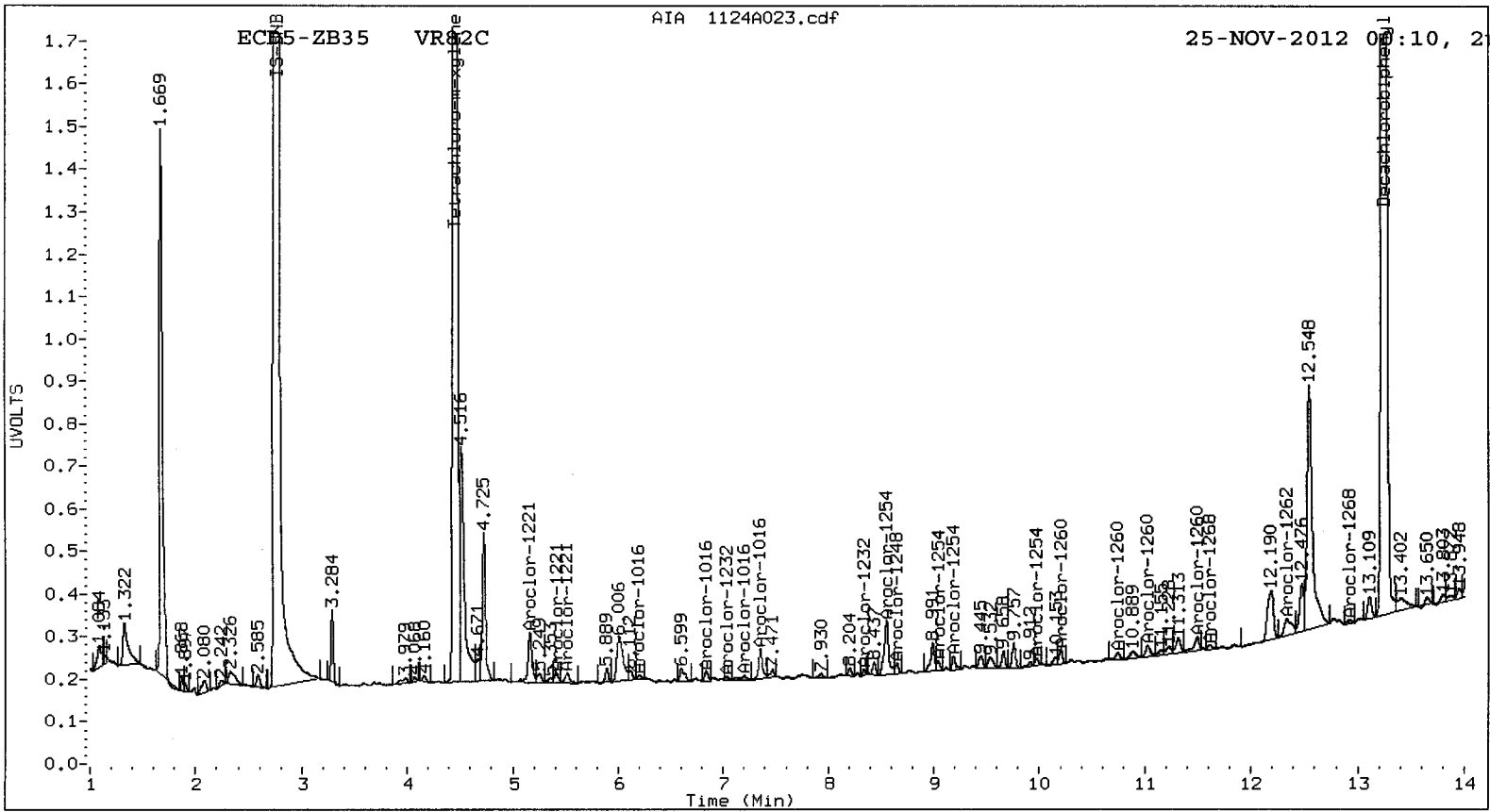
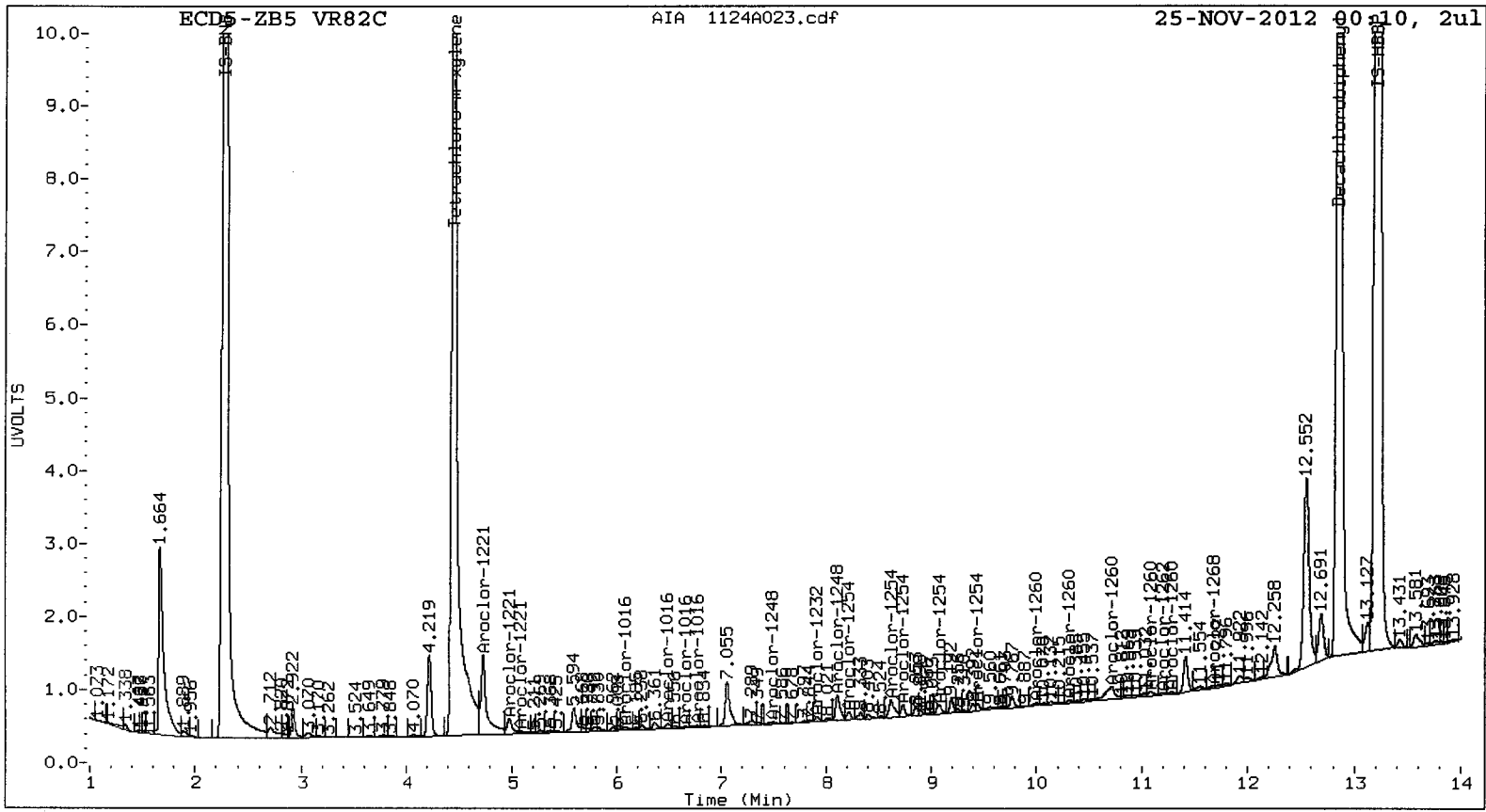
Total PCB Area Col1 (4.549 - 12.758) = 17750762 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 3734113 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR02: 01509



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A024.d
Data file 2: 20121102.B/1124-2.b/1124A024.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 25-NOV-2012 00:30
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	13935956	4.456	0.000	3573384	17.4	20.1	14.4	Tetrachloro-m-xylene
12.858	0.000	16407886	13.248	-0.001	3168531	18.3	19.5	6.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	43.5	50.3
Decachlorobiphenyl	45.9	48.8

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	38319146	22.6
Hexabromobiphenyl	64198300	59353496	-7.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12454774	-14.3
Hexabromobiphenyl	15789428	11955012	-24.3

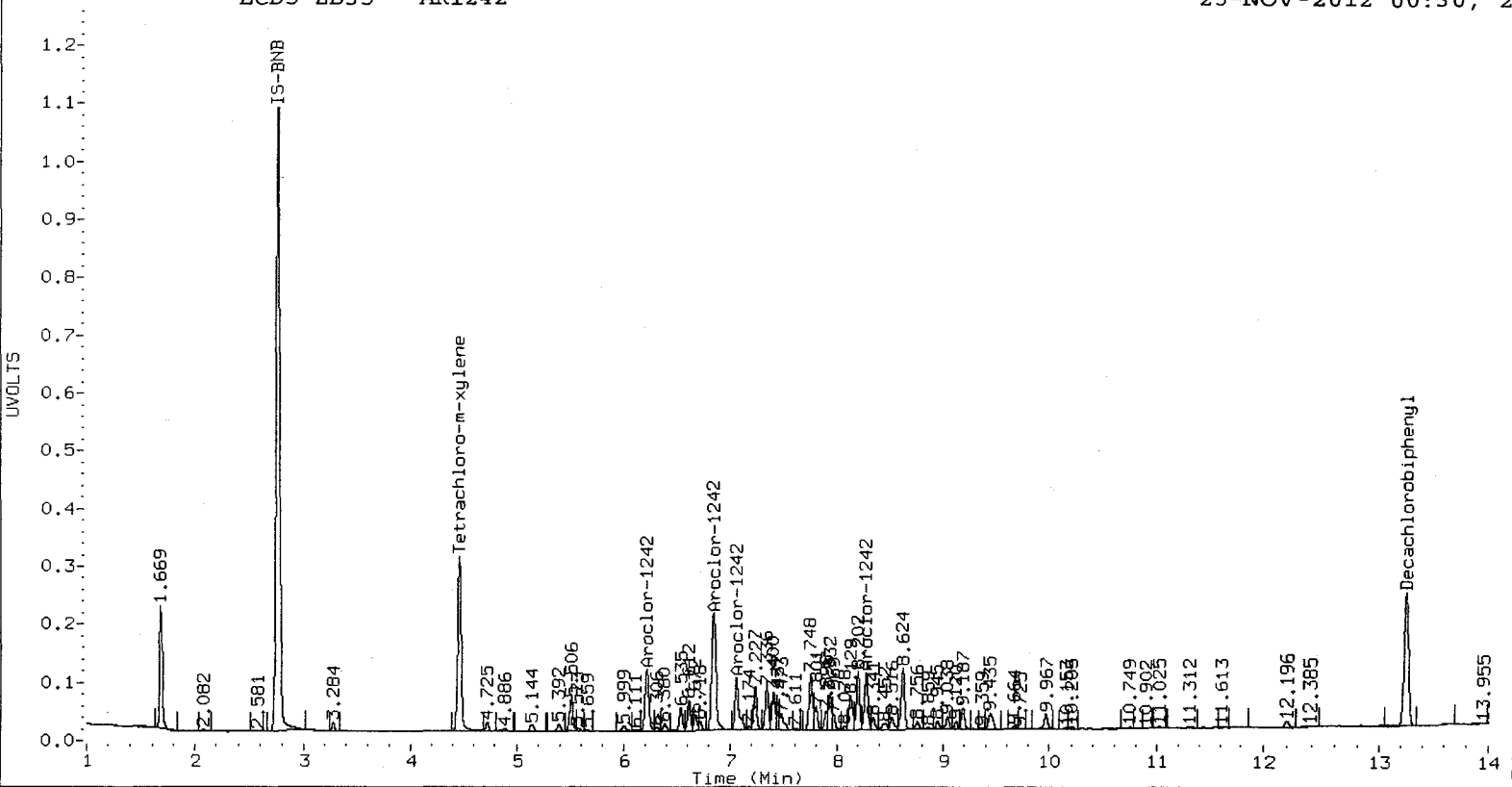
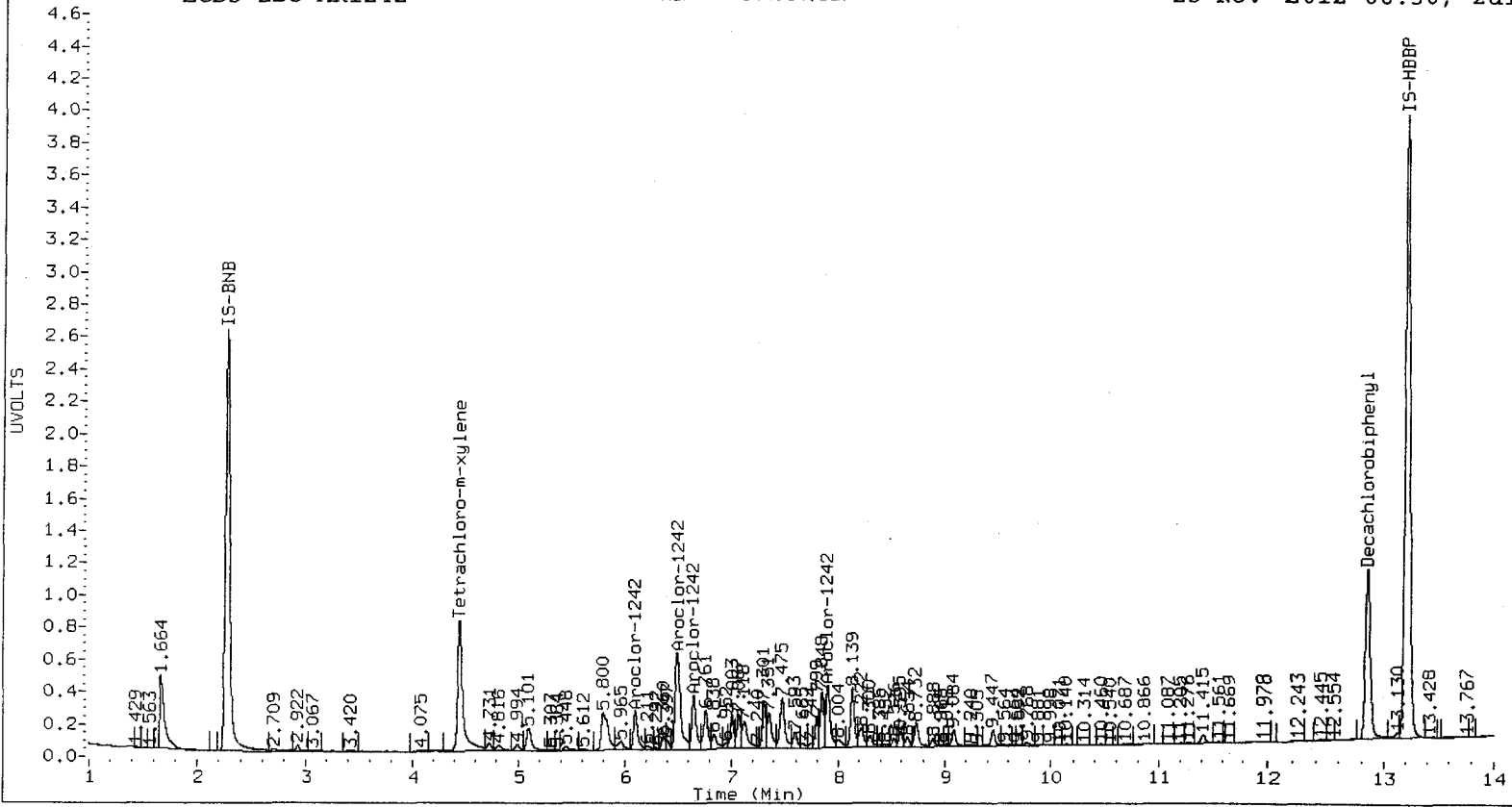
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col				ZB35 Col				
		RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	6.096	0.000	3419785	205.1	1	6.210	0.000	1324816	249.1
Aroclor-1242	2	6.500	0.000	11065123	214.3	2	6.842	0.000	2865449	253.1
Aroclor-1242	3	6.650	0.000	4675187	208.5	3	7.052	0.000	1177354	250.3
Aroclor-1242	4	7.902	0.000	5587313	212.5	4	8.276	0.000	1013465	255.8
Total Col1Ave (4 peaks):				210.1	Total Col2Ave (4 peaks):				252.1	RPD = 18
Corrected Ave (3 peaks):				208.7	Corrected Ave (3 peaks):				250.8	RPD = 18

Total PCB Area Col1 (4.549 - 12.758) = 91405985 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 20801414 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A025.d
Data file 2: 20121102.B/1124-2.b/1124A025.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 25-NOV-2012 00:51
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	15480503	4.457	0.000	3830013	19.2	20.0	3.8	Tetrachloro-m-xylene
12.857	-0.001	19206163	13.248	-0.001	3686981	19.7	20.4	3.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.0	49.9
Decachlorobiphenyl	49.3	51.0

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	38570575	23.4
Hexabromobiphenyl	64198300	64670405	0.7

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	13458196	-7.4
Hexabromobiphenyl	15789428	13291576	-15.8

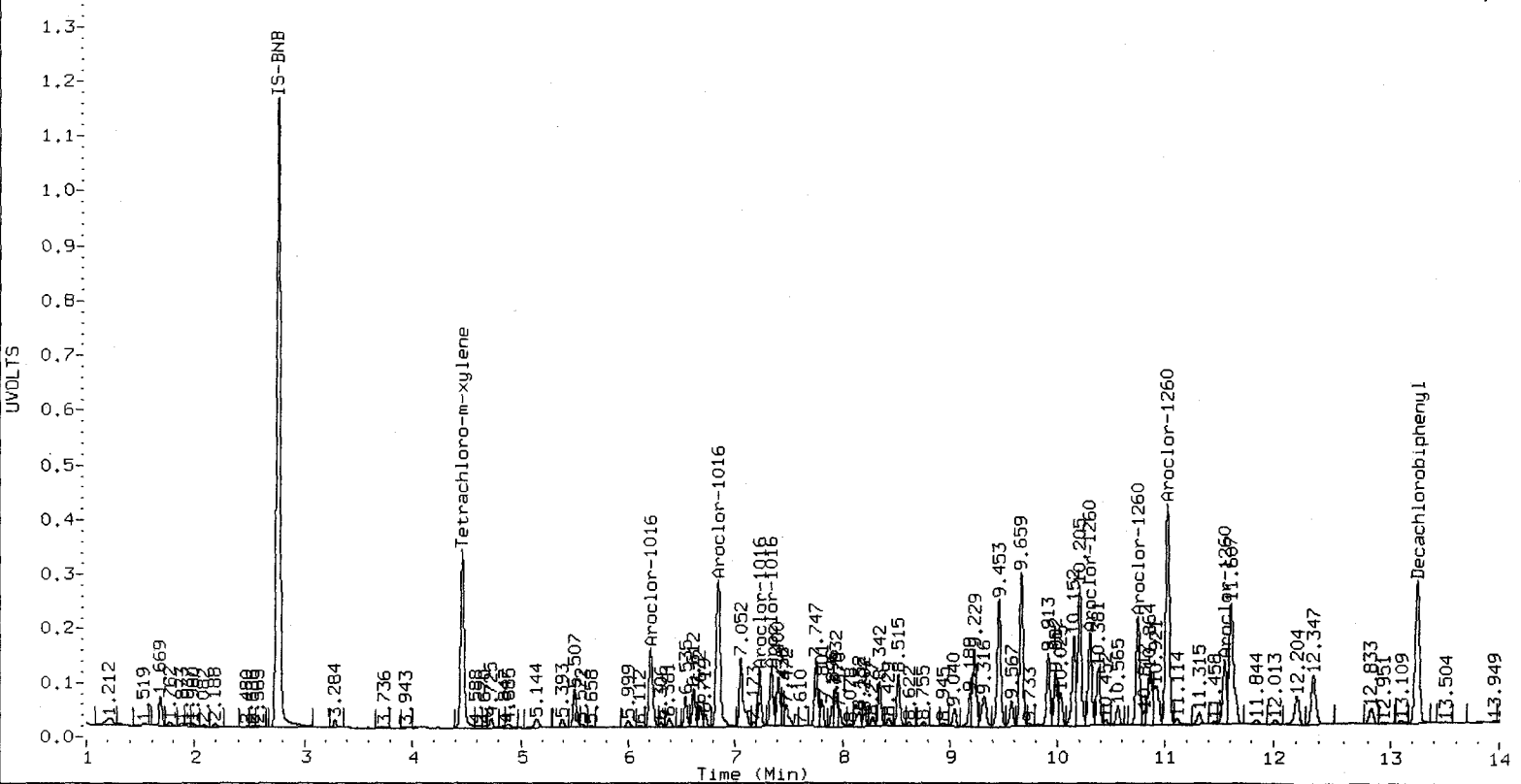
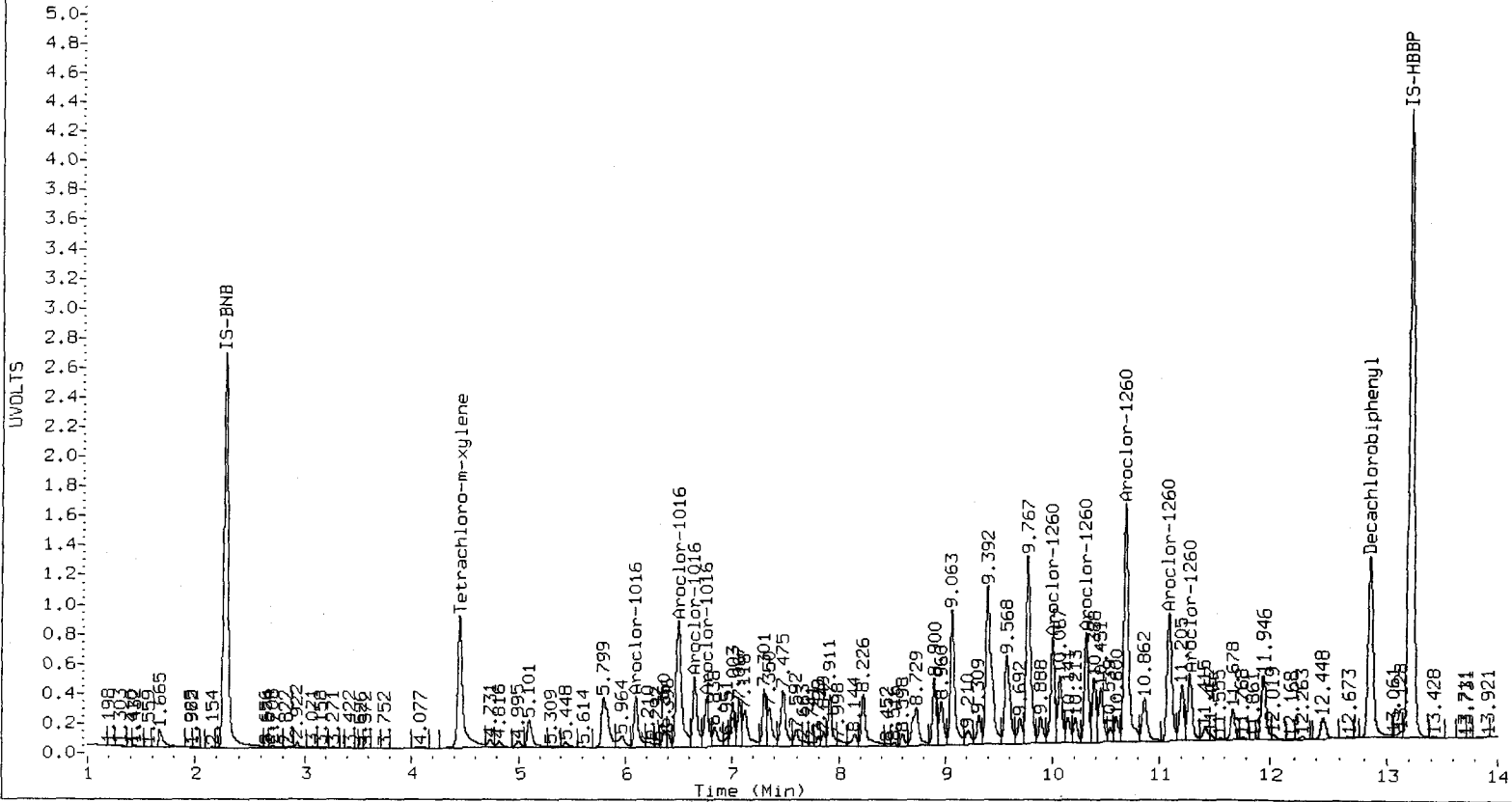
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	6.096	0.000	4884905	226.5	1	6.210	0.000	1825408	242.1
Aroclor-1016	2	6.500	0.000	15627916	232.5	2	6.843	0.000	3869632	242.6
Aroclor-1016	3	6.650	0.000	6697661	231.0	3	7.226	-0.001	1035818	249.6
Aroclor-1016	4	6.761	0.000	4993875	240.8	4	7.336	-0.001	1142083	244.7
Total Col1Ave (4 peaks):				232.7		Total Col2Ave (4 peaks):				244.8 RPD = 5
Corrected Ave (3 peaks):				230.0		Corrected Ave (3 peaks):				243.2 RPD = 6
Aroclor-1260	1	9.998	0.000	9820523	261.3	1	10.302	0.001	1956507	275.7
Aroclor-1260	2	10.315	0.000	9710327	257.0	2	10.753	0.001	2452858	281.7
Aroclor-1260	3	10.688	0.000	24307761	271.4	3	11.026	0.000	4915991	283.7
Aroclor-1260	4	11.088	0.000	12630224	246.0	4	11.547	0.000	1427228	273.4
Aroclor-1260	5	11.277	0.000	6459656	259.0	NS	---			----
Total Col1Ave (5 peaks):				258.9		Total Col2Ave (4 peaks):				278.6 RPD = 7
Corrected Ave (4 peaks):				255.8		Corrected Ave (3 peaks):				276.9 RPD = 8

Total PCB Area Col1 (4.549 - 12.758) = 298862505 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 61768281 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A026.d
Data file 2: 20121102.B/1124-2.b/1124A026.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82D
Client ID: SG-05-S-C-121108
Injection Date: 25-NOV-2012 01:11
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	21903043	4.457	0.000	6183334	28.5	32.8	14.2	Tetrachloro-m-xylene
12.858	0.000	29439305	13.248	-0.001	6326927	31.0	34.6	11.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	71.2	82.0
Decachlorobiphenyl	77.5	86.6

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36843937	17.9
Hexabromobiphenyl	64198300	63064682	-1.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	13217344	-9.1
Hexabromobiphenyl	15789428	13442013	-14.9

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.087	-0.009	350520	17.0	1	6.196	-0.014	193931	26.2		
Aroclor-1016	2	6.499	-0.001	545907	8.5	2	6.836	-0.007	106105	6.8		
Aroclor-1016	3	6.653	0.003	119404	4.3	3	7.225	-0.002	18764	4.6		
Aroclor-1016	4	6.765	0.004	175569	8.9	4	7.347	0.010	147002	32.1		
Total CollAve (4 peaks):					9.7	Total Col2Ave (4 peaks):					17.4	RPD = 57*
Corrected Ave (3 peaks):					7.2	Corrected Ave (3 peaks):					12.5	RPD = 54*
Aroclor-1221	1	4.731	-0.086	2084606	231.8	1	5.159	0.018	498976	222.8		
Aroclor-1221	2	4.980	-0.015	369028	59.9	2	5.412	0.020	84607	64.2		
Aroclor-1221	3	5.109	0.008	102902	5.1	3	5.489	-0.017	227566	54.9		
Aroclor-1221	NS	---	---	---	---	4	5.573	-0.002	30265	42.3		
Total CollAve (3 peaks):					98.9	Total Col2Ave (4 peaks):					96.0	RPD = 3
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					53.8	
Aroclor-1232	1	6.087	-0.007	350520	41.8	1	6.196	-0.014	193931	59.1		
Aroclor-1232	2	6.499	0.002	545907	20.8	2	6.836	-0.005	106105	16.4		
Aroclor-1232	3	6.653	0.006	119404	10.4	3	7.058	0.007	49047	18.2		
Aroclor-1232	4	7.909	0.008	730377	50.9	4	8.271	-0.005	117273	51.1		
Total CollAve (4 peaks):					31.0	Total Col2Ave (4 peaks):					36.2	RPD = 16
Corrected Ave (3 peaks):					24.3	Corrected Ave (3 peaks):					28.6	RPD = 16
Aroclor-1242	1	6.087	-0.009	350520	21.9	1	6.196	-0.014	193931	34.4		
Aroclor-1242	2	6.499	-0.001	545907	11.0	2	6.836	-0.006	106105	8.8		
Aroclor-1242	3	6.653	0.003	119404	5.5	3	7.058	0.006	49047	9.8		
Aroclor-1242	4	7.909	0.006	730377	28.9	4	8.271	-0.005	117273	27.9		
Total CollAve (4 peaks):					16.8	Total Col2Ave (4 peaks):					20.2	RPD = 18
Corrected Ave (3 peaks):					12.8	Corrected Ave (3 peaks):					15.5	RPD = 19
Aroclor-1248	1	6.499	0.002	545907	16.8	1	6.836	-0.004	106105	13.5		
Aroclor-1248	2	7.473	-0.001	224373	6.6	2	7.749	0.003	70972	10.9		
Aroclor-1248	3	7.909	0.007	730377	16.9	3	8.271	-0.004	117273	17.4		
Aroclor-1248	4	8.121	-0.016	2028689	61.0	4	8.608	-0.014	93083	11.2		
Total CollAve (4 peaks):					25.3	Total Col2Ave (4 peaks):					13.3	RPD = 62*
Corrected Ave (3 peaks):					13.4	Corrected Ave (3 peaks):					11.9	RPD = 12
Aroclor-1254	1	8.219	-0.005	1184365	26.9	1	8.342	0.000	122583	21.4		
Aroclor-1254	2	8.620	0.024	3961333	137.0	2	8.552	0.036	799902	110.4		
Aroclor-1254	3	8.731	0.000	2023925	36.0	3	9.045	0.006	21395534	3842.2		
Aroclor-1254	4	9.076	-0.004	1552356	25.2	4	9.187	-0.001	290592	23.8		
Aroclor-1254	5	9.440	-0.001	995421	25.7	5	9.973	0.001	188901	25.7		
Total CollAve (5 peaks):					50.2	Total Col2Ave (5 peaks):					804.7	RPD = 177*
Corrected Ave (4 peaks):					28.5	Corrected Ave (4 peaks):					45.3	RPD = 46*
Aroclor-1260	1	9.996	-0.002	274110	7.5	1	10.302	0.000	95482	13.3		
Aroclor-1260	2	10.314	0.000	283672	7.7	2	10.750	-0.003	199315	22.6		
Aroclor-1260	3	10.689	0.000	1520871	17.4	3	11.027	0.000	246058	14.0		
Aroclor-1260	4	11.089	0.001	626304	12.5	4	11.544	-0.003	43292	8.2		
Aroclor-1260	5	11.275	-0.003	405515	16.7	NS	---	---	---	---		
Total CollAve (5 peaks):					12.4	Total Col2Ave (4 peaks):					14.5	RPD = 16
Corrected Ave (4 peaks):					11.1	Corrected Ave (3 peaks):					11.8	RPD = 7
Aroclor-1262	1	9.996	0.000	274110	5.0	1	10.302	0.000	95482	8.1		
Aroclor-1262	2	10.314	0.002	283672	6.8	2	10.750	-0.002	199315	19.1		
Aroclor-1262	3	10.689	0.002	1520871	14.1	3	11.027	0.002	246058	10.8		
Aroclor-1262	4	11.202	0.000	250255	6.2	4	11.544	-0.003	43292	4.7		
Aroclor-1262	5	11.275	0.000	405515	9.1	5	12.386	0.040	288335	32.4		
Total CollAve (5 peaks):					8.2	Total Col2Ave (5 peaks):					15.0	RPD = 59*
Corrected Ave (4 peaks):					6.8	Corrected Ave (4 peaks):					10.7	RPD = 45*
Aroclor-1268	1	11.202	-0.001	250255	2.3	1	11.544	-0.003	43292	1.9		

Aroclor-1268 2	11.275	0.000	405515	3.9	2	11.607	-0.006	156086	6.9
Aroclor-1268 3	11.719	0.058	1681554	18.2	3	11.993	-0.018	35540	1.9
Aroclor-1268 4	12.457	0.008	204224	0.8	4	12.925	0.091	49857	0.9
Total Col1Ave (4 peaks):			6.3	Total Col2Ave (4 peaks):			2.9	RPD = 74*	
Corrected Ave (3 peaks):			2.3	Corrected Ave (3 peaks):			1.5	RPD = 40	

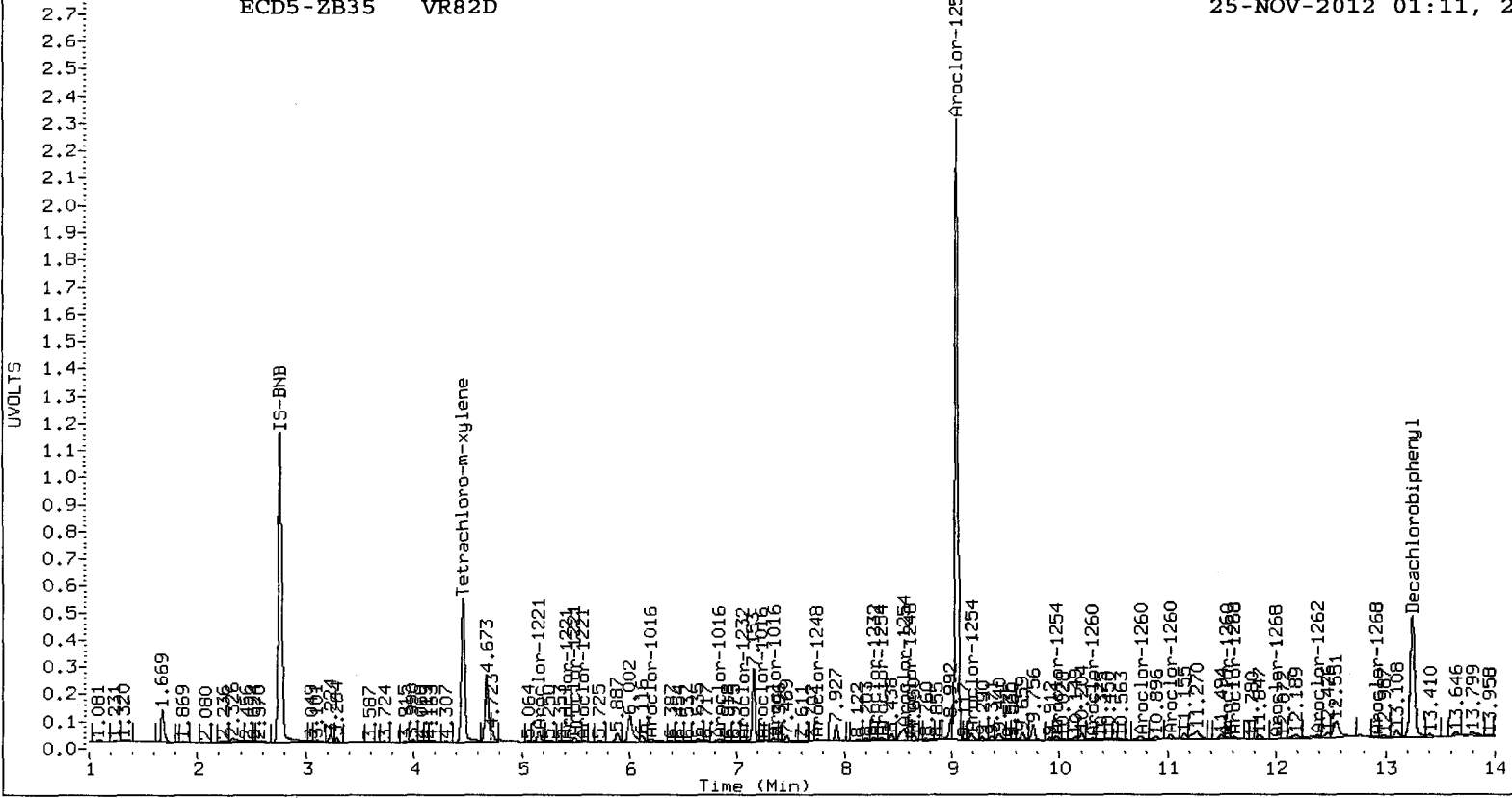
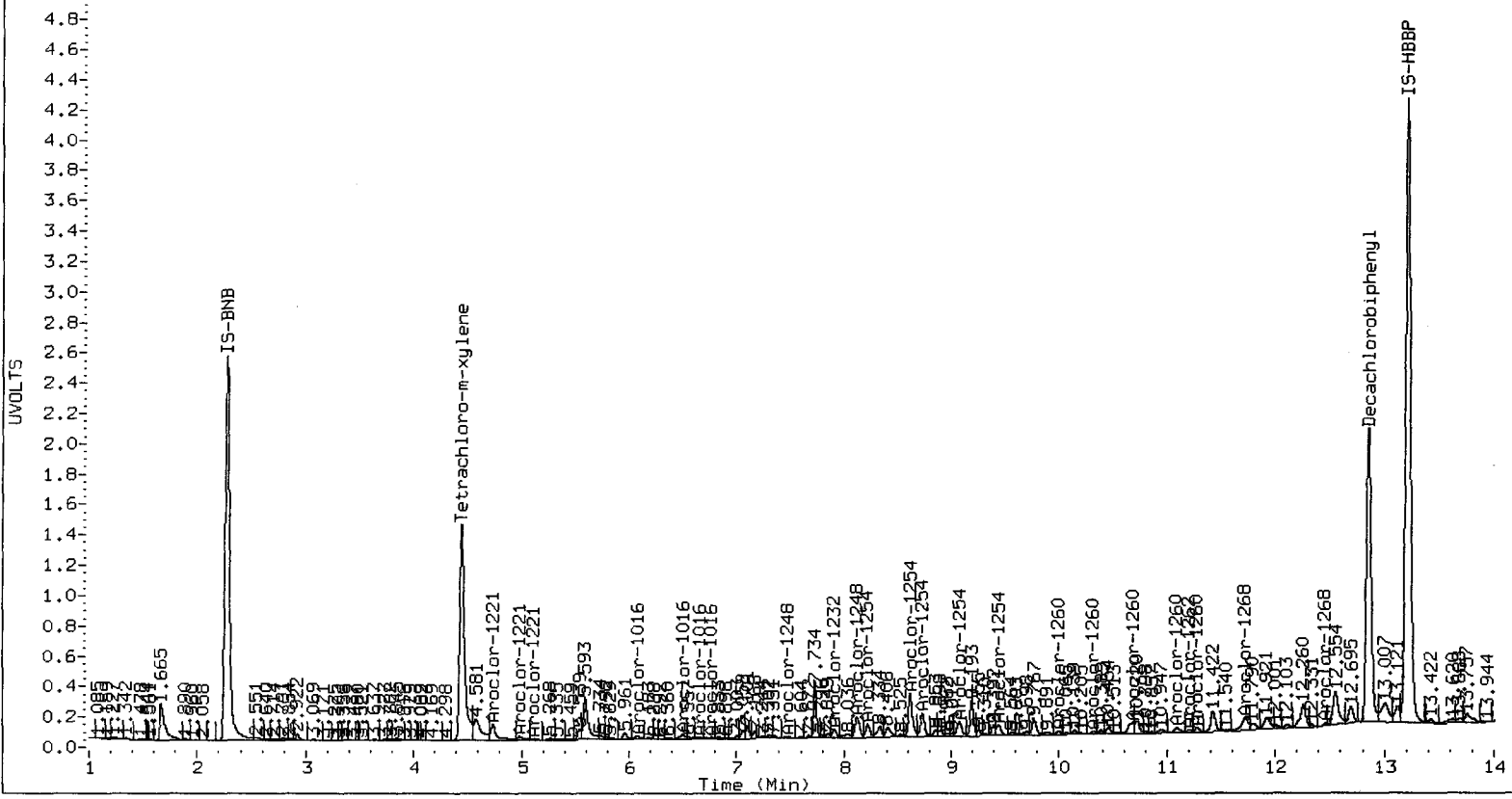
Total PCB Area Col1 (4.549 - 12.758) = 68035337 Col1 Total PCB = 0.1 ppm*

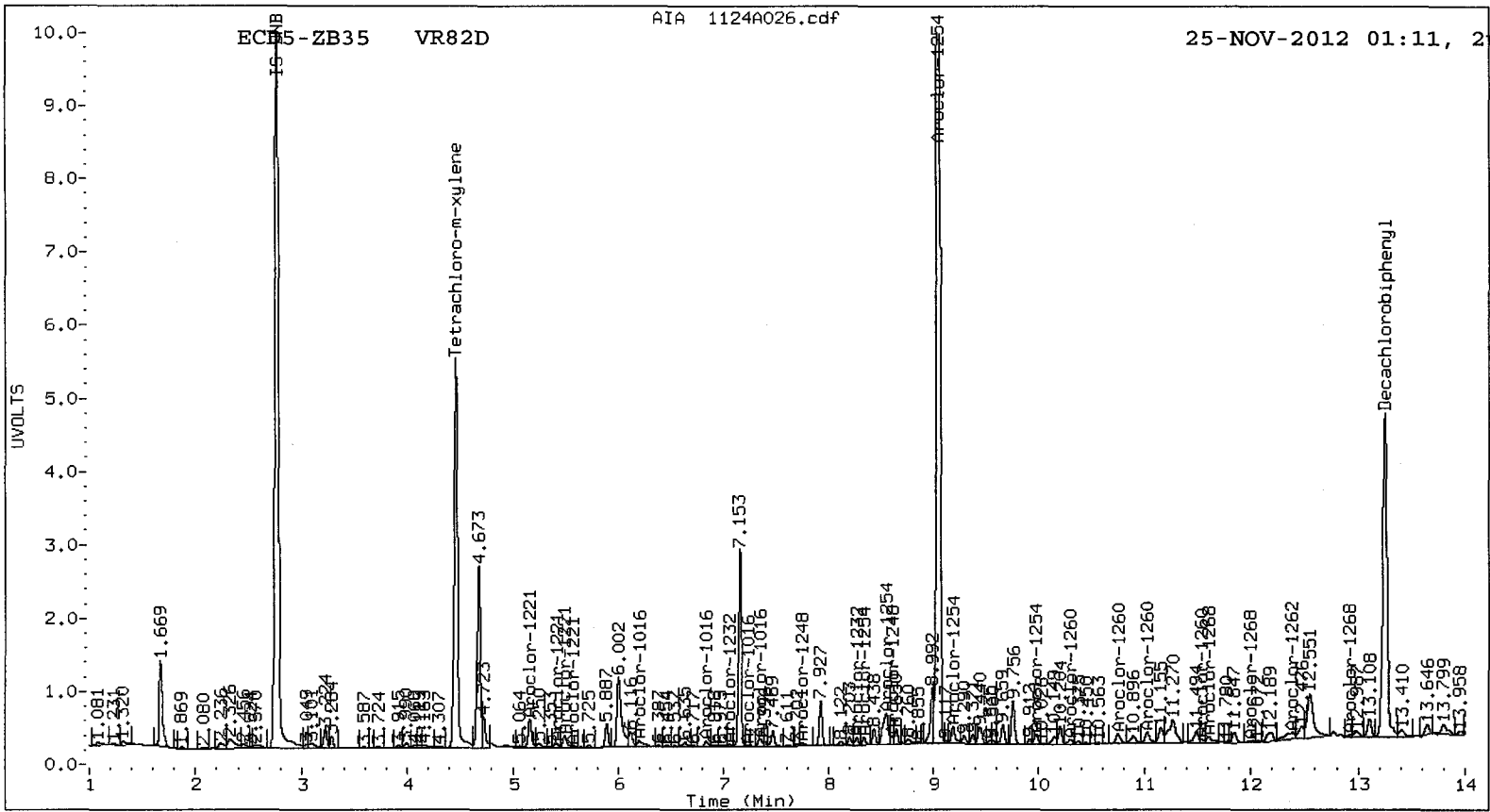
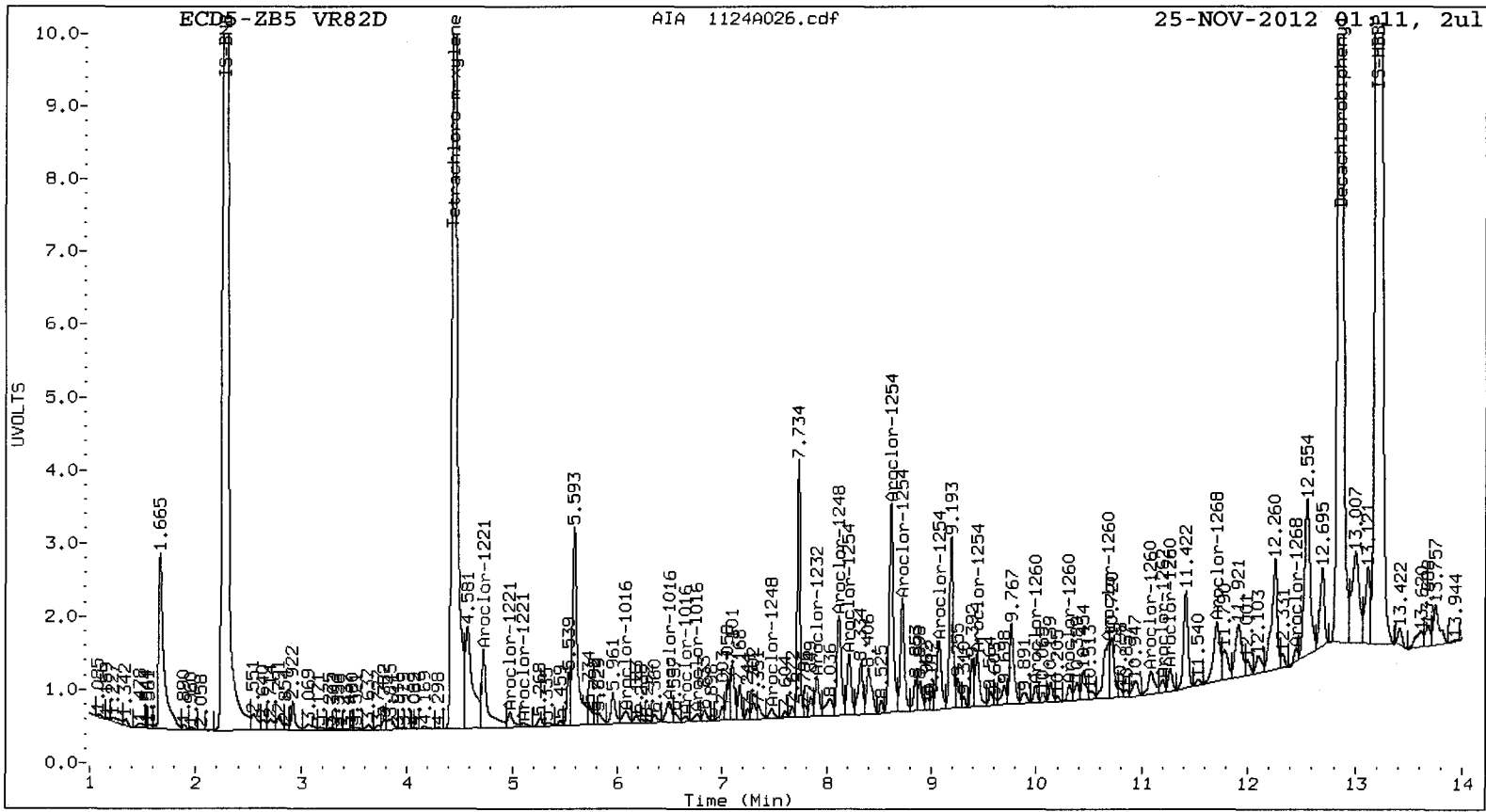
Total PCB Area Col2 (4.556 - 13.149) = 42611628 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82 : 01600





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A027.d
Data file 2: 20121102.B/1124-2.b/1124A027.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82E
Client ID: SG-06-S-C-121108
Injection Date: 25-NOV-2012 01:31
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	25111377	4.456	0.000	6235242	33.3	34.8	4.4	Tetrachloro-m-xylene
12.859	0.001	27938716	13.249	0.000	6022543	31.3	35.6	12.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	83.3	87.0
Decachlorobiphenyl	78.3	88.9

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11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36106017	15.6
Hexabromobiphenyl	64198300	59234913	-7.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12565471	-13.6
Hexabromobiphenyl	15789428	12461711	-21.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.072	-0.024	288468	14.3	1	6.193	-0.017	181321	25.8	
Aroclor-1016	2	6.494	-0.006	513392	8.2	2	6.836	-0.006	76879	5.2	
Aroclor-1016	3	6.655	0.005	63022	2.3	3	7.272	0.045	22455	5.8	
Aroclor-1016	4	6.768	0.007	147542	7.6	4	7.347	0.011	110788	25.4	
Total CollAve (4 peaks):				8.1	Total Col2Ave (4 peaks):				15.5	RPD = 63*	
Corrected Ave (3 peaks):				6.0	Corrected Ave (3 peaks):				12.1	RPD = 67*	
Aroclor-1221	1	4.731	-0.086	1788444	202.9	1	5.159	0.018	241869	113.6	
Aroclor-1221	2	4.980	-0.015	349396	57.9	2	5.413	0.020	78298	62.4	
Aroclor-1221	3	5.114	0.013	123631	6.3	3	5.524	0.017	68651	17.4	
Aroclor-1221	NS	---	---	---	---	4	5.575	-0.001	20237	29.7	
Total CollAve (3 peaks):				89.0	Total Col2Ave (4 peaks):				55.8	RPD = 46*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				36.5		
Aroclor-1232	1	6.072	-0.022	288468	35.1	1	6.193	-0.017	181321	58.1	
Aroclor-1232	2	6.494	-0.003	513392	20.0	2	6.836	-0.004	76879	12.5	
Aroclor-1232	3	6.655	0.008	63022	5.6	3	7.060	0.009	45754	17.8	
Aroclor-1232	4	7.909	0.008	572108	40.7	4	8.275	-0.001	55602	25.5	
Total CollAve (4 peaks):				25.3	Total Col2Ave (4 peaks):				28.5	RPD = 12	
Corrected Ave (3 peaks):				20.2	Corrected Ave (3 peaks):				18.6	RPD = 8	
Aroclor-1242	1	6.072	-0.024	288468	18.4	1	6.193	-0.017	181321	33.8	
Aroclor-1242	2	6.494	-0.006	513392	10.6	2	6.836	-0.006	76879	6.7	
Aroclor-1242	3	6.655	0.005	63022	3.0	3	7.060	0.008	45754	9.6	
Aroclor-1242	4	7.909	0.006	572108	23.1	4	8.275	-0.001	55602	13.9	
Total CollAve (4 peaks):				13.7	Total Col2Ave (4 peaks):				16.0	RPD = 15	
Corrected Ave (3 peaks):				10.6	Corrected Ave (3 peaks):				10.1	RPD = 5	
Aroclor-1248	1	6.494	-0.003	513392	16.1	1	6.836	-0.003	76879	10.3	
Aroclor-1248	2	7.472	-0.001	173388	5.2	2	7.751	0.005	80676	13.0	
Aroclor-1248	3	7.909	0.007	572108	13.5	3	8.275	0.000	55602	8.7	
Aroclor-1248	4	8.115	-0.022	3463302	106.2	4	8.650	0.028	266172	33.7	
Total CollAve (4 peaks):				35.3	Total Col2Ave (4 peaks):				16.4	RPD = 73*	
Corrected Ave (3 peaks):				11.6	Corrected Ave (3 peaks):				10.7	RPD = 8	
Aroclor-1254	1	8.217	-0.008	1130762	26.2	1	8.341	-0.001	99190	18.2	
Aroclor-1254	2	8.620	0.023	4365093	154.0	2	8.557	0.041	1251757	181.6	
Aroclor-1254	3	8.730	-0.001	1922618	34.9	3	9.044	0.005	265573	50.2	
Aroclor-1254	4	9.076	-0.005	1235576	20.5	4	9.187	-0.001	361684	31.1	
Aroclor-1254	5	9.441	0.000	1021480	26.9	5	9.973	0.001	174719	25.0	
Total CollAve (5 peaks):				52.5	Total Col2Ave (5 peaks):				64.2	RPD = 15	
Corrected Ave (4 peaks):				31.1	Corrected Ave (4 peaks):				31.1	RPD = 14	
Aroclor-1260	1	9.996	-0.002	270968	7.9	1	10.302	0.000	97222	14.6	
Aroclor-1260	2	10.314	0.000	260716	7.5	2	10.750	-0.003	228368	28.0	
Aroclor-1260	3	10.685	-0.003	581604	7.1	3	11.028	0.001	265606	16.4	
Aroclor-1260	4	11.091	0.003	620314	13.2	4	11.548	0.000	60782	12.4	
Aroclor-1260	5	11.275	-0.003	595069	26.0	NS	---	---	---	---	
Total CollAve (5 peaks):				12.3	Total Col2Ave (4 peaks):				17.8	RPD = 36	
Corrected Ave (4 peaks):				8.9	Corrected Ave (3 peaks):				14.5	RPD = 47*	
Aroclor-1262	1	9.996	0.000	270968	5.3	1	10.302	0.000	97222	8.9	
Aroclor-1262	2	10.314	0.002	260716	6.7	2	10.750	-0.003	228368	23.7	
Aroclor-1262	3	10.685	-0.002	581604	5.7	3	11.028	0.003	265606	12.5	
Aroclor-1262	4	11.204	0.002	348912	9.1	4	11.548	0.001	60782	7.1	
Aroclor-1262	5	11.275	-0.001	595069	14.2	5	12.349	0.002	191736	23.3	
Total CollAve (5 peaks):				8.2	Total Col2Ave (5 peaks):				15.1	RPD = 59*	
Corrected Ave (4 peaks):				6.7	Corrected Ave (4 peaks):				13.0	RPD = 64*	
Aroclor-1268	1	11.204	0.001	348912	3.4	1	11.548	0.000	60782	2.8	

Aroclor-1268 2	11.275	0.000	595069	6.0	2	11.609	-0.005	191609	9.1
Aroclor-1268 3	11.720	0.059	2280130	26.3	3	11.989	-0.022	26537	1.5
Aroclor-1268 4	12.455	0.007	261378	1.1	4	12.837	0.003	12175	0.2
Total Col1Ave (4 peaks):			9.2	Total Col2Ave (4 peaks):			3.4	RPD = 92*	
Corrected Ave (3 peaks):			3.5	Corrected Ave (3 peaks):			1.5	RPD = 79*	

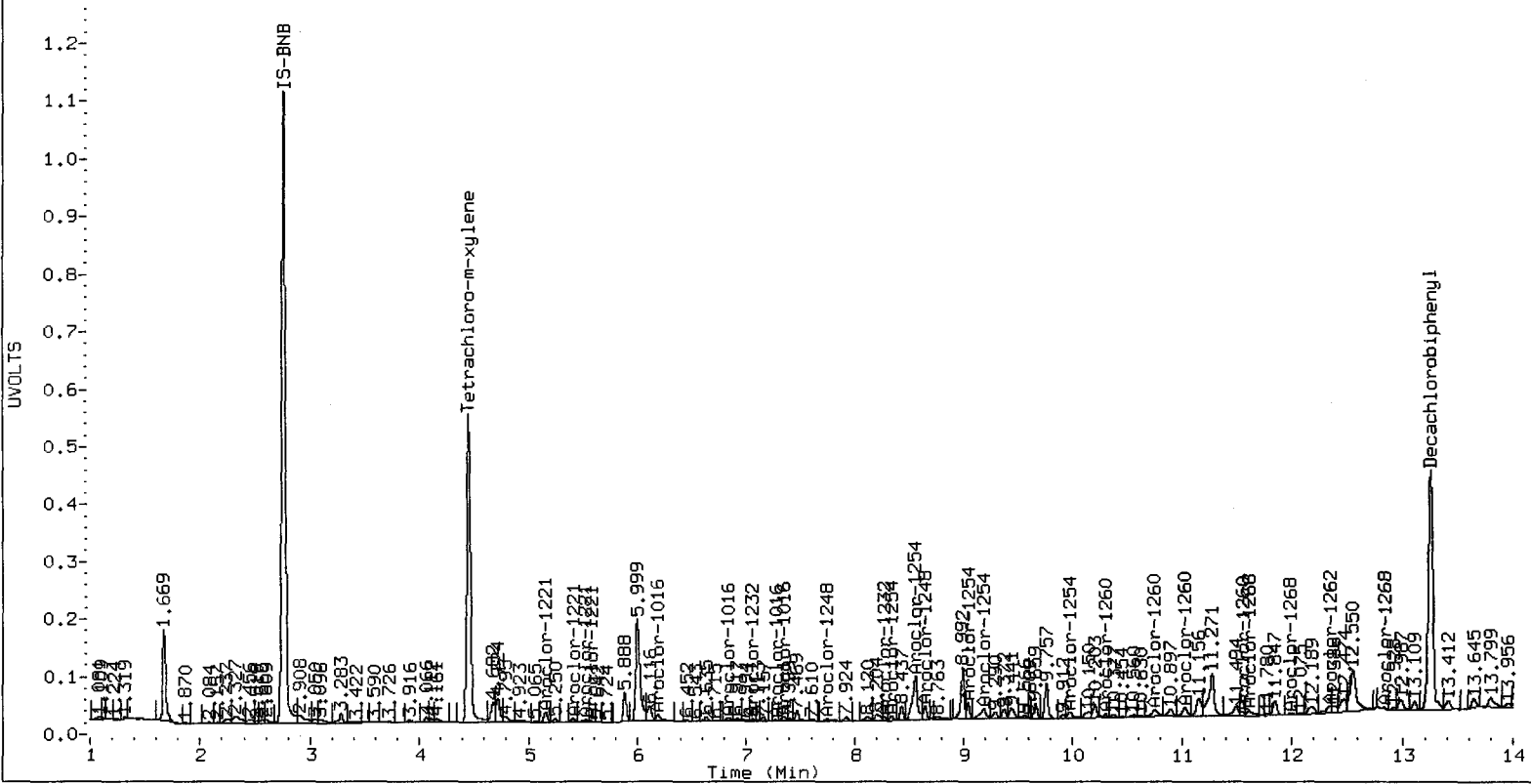
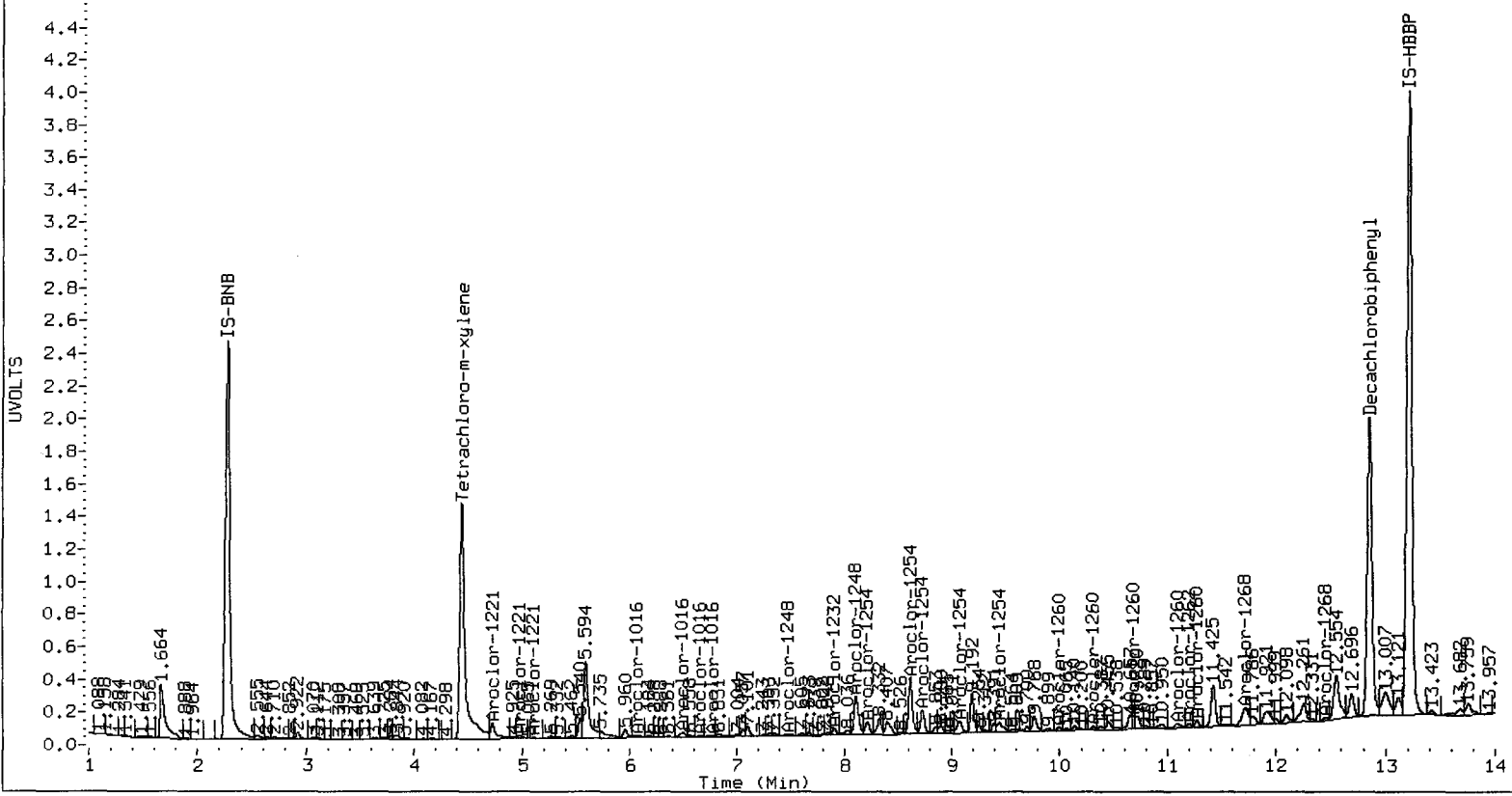
Total PCB Area Col1 (4.549 - 12.758) = 70654548 Col1 Total PCB = 0.1 ppm*

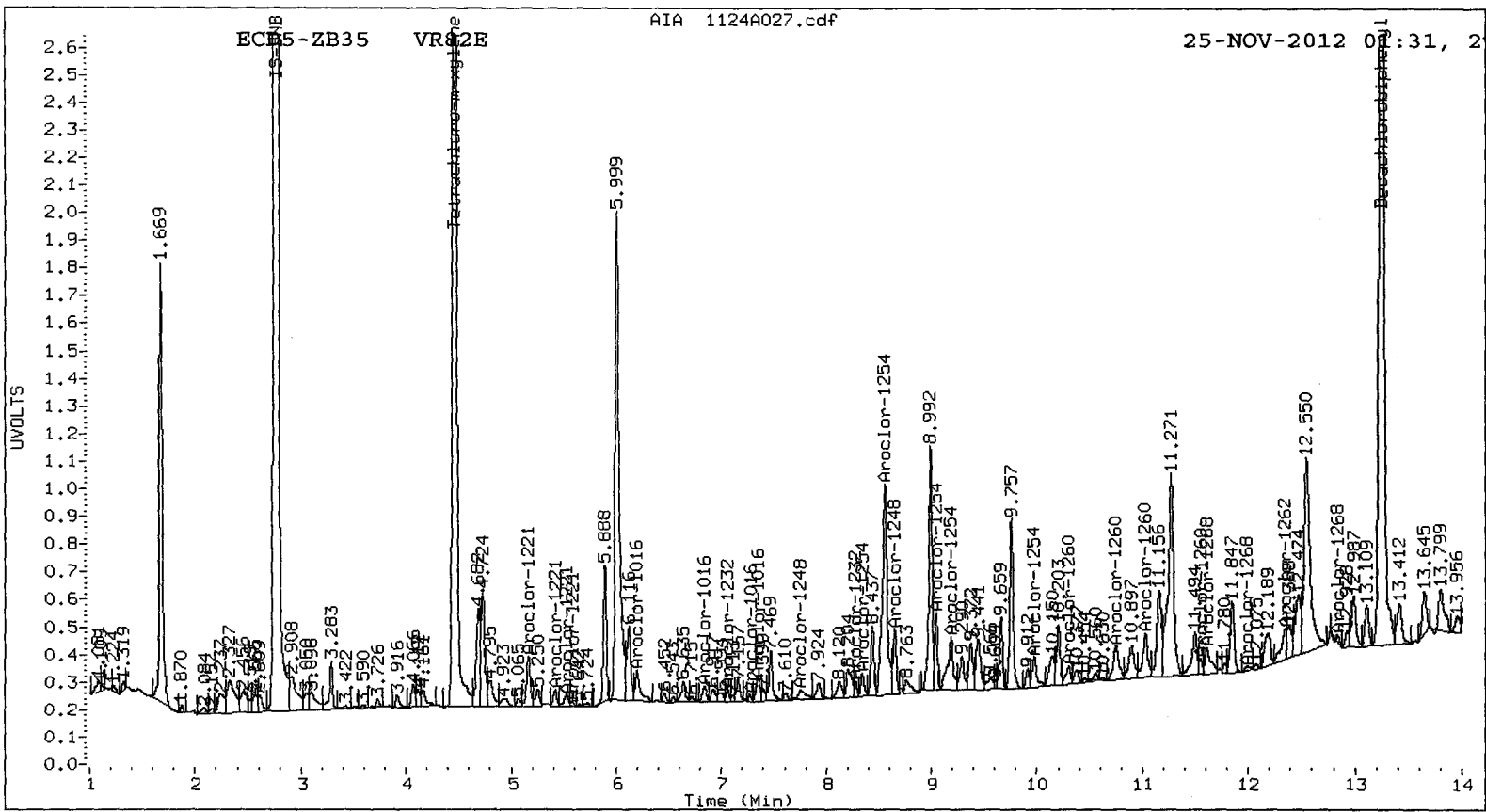
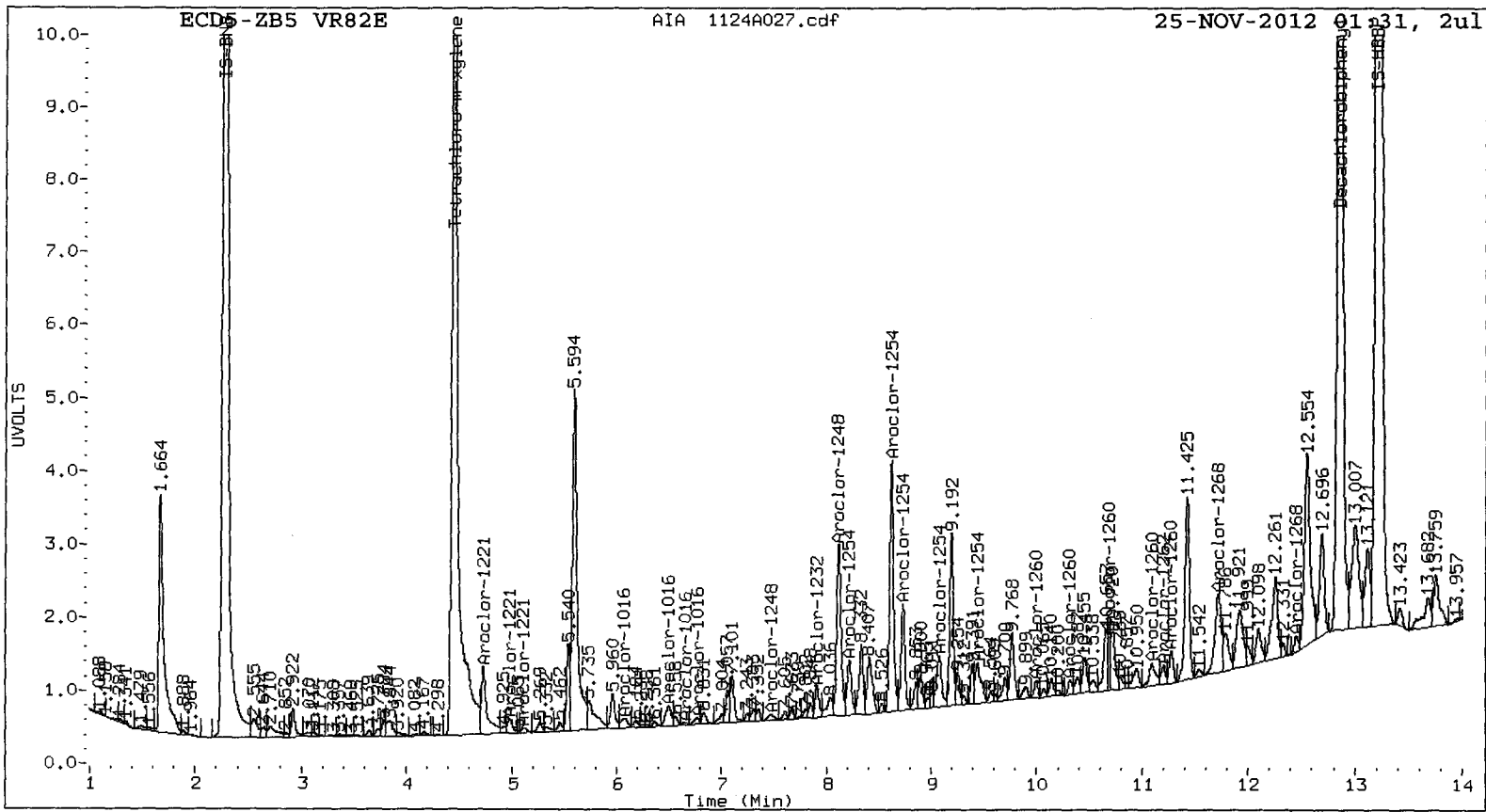
Total PCB Area Col2 (4.556 - 13.149) = 19479682 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01605





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A028.d
Data file 2: 20121102.B/1124-2.b/1124A028.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82F
Client ID: SG-07-S-C-121108
Injection Date: 25-NOV-2012 01:52
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	24339117	4.457	0.000	6207025	31.6	34.0	7.2	Tetrachloro-m-xylene
12.859	0.001	28515499	13.250	0.002	5904250	30.9	34.5	11.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	79.1	85.0
Decachlorobiphenyl	77.2	86.3

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36832755	17.9
Hexabromobiphenyl	64198300	61317779	-4.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12807462	-11.9
Hexabromobiphenyl	15789428	12587430	-20.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.066	-0.030	158062	7.7	1	6.194	-0.016	75607	10.5		
Aroclor-1016	2	6.492	-0.009	328697	5.1	2	6.837	-0.006	33016	2.2		
Aroclor-1016	3	6.654	0.004	18333	0.7	3	7.271	0.044	20221	5.1		
Aroclor-1016	4	6.767	0.006	77621	3.9	4	7.352	0.015	151193	34.0		
Total CollAve (4 peaks):					4.3	Total Col2Ave (4 peaks):					13.0	RPD = 100*
Corrected Ave (3 peaks):					3.2	Corrected Ave (3 peaks):					5.9	RPD = 59*
Aroclor-1221	1	4.731	-0.086	1965759	218.6	1	5.158	0.017	152990	70.5		
Aroclor-1221	2	4.979	-0.016	351199	57.0	2	5.414	0.022	61459	48.1		
Aroclor-1221	3	5.113	0.012	71992	3.6	3	5.485	-0.021	190045	47.3		
Aroclor-1221	NS	---	---	---	---	4	5.639	0.064	13380	19.3		
Total CollAve (3 peaks):					53.1	Total Col2Ave (4 peaks):					46.3	RPD = 67*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					38.2	
Aroclor-1232	1	6.066	-0.028	158062	18.8	1	6.194	-0.016	75607	23.8		
Aroclor-1232	2	6.492	-0.006	328697	12.5	2	6.837	-0.004	33016	5.3		
Aroclor-1232	3	6.654	0.007	18333	1.6	3	7.060	0.010	41230	15.7		
Aroclor-1232	4	7.909	0.008	343188	23.9	4	8.276	-0.001	21494	9.7		
Total CollAve (4 peaks):					14.2	Total Col2Ave (4 peaks):					13.6	RPD = 4
Corrected Ave (3 peaks):					11.0	Corrected Ave (3 peaks):					10.2	RPD = 7
Aroclor-1242	1	6.066	-0.030	158062	9.9	1	6.194	-0.016	75607	13.8		
Aroclor-1242	2	6.492	-0.009	328697	6.6	2	6.837	-0.005	33016	2.8		
Aroclor-1242	3	6.654	0.004	18333	0.9	3	7.060	0.009	41230	8.5		
Aroclor-1242	4	7.909	0.007	343188	13.6	4	8.276	-0.001	21494	5.3		
Total CollAve (4 peaks):					7.7	Total Col2Ave (4 peaks):					7.6	RPD = 1
Corrected Ave (3 peaks):					5.8	Corrected Ave (3 peaks):					5.5	RPD = 4
Aroclor-1248	1	6.492	-0.005	328697	10.1	1	6.837	-0.003	33016	4.3		
Aroclor-1248	2	7.475	0.002	109962	3.2	2	7.775	0.029	53263	8.4		
Aroclor-1248	3	7.909	0.007	343188	8.0	3	8.276	0.000	21494	3.3		
Aroclor-1248	4	8.120	-0.017	2322855	69.9	4	8.651	0.029	259605	32.2		
Total CollAve (4 peaks):					22.8	Total Col2Ave (4 peaks):					12.1	RPD = 61*
Corrected Ave (3 peaks):					7.1	Corrected Ave (3 peaks):					5.4	RPD = 28
Aroclor-1254	1	8.215	-0.010	791842	18.0	1	8.341	0.000	52892	9.5		
Aroclor-1254	2	8.620	0.024	3397968	127.5	2	8.555	0.039	772485	110.0		
Aroclor-1254	3	8.731	0.000	1617004	28.8	3	8.991	-0.048	788313	146.1		
Aroclor-1254	4	9.076	-0.004	681491	11.1	4	9.187	-0.001	205225	17.3		
Aroclor-1254	5	9.443	0.001	579820	15.0	5	9.975	0.003	71863	10.1		
Total CollAve (5 peaks):					38.1	Total Col2Ave (5 peaks):					58.6	RPD = 42*
Corrected Ave (4 peaks):					18.2	Corrected Ave (4 peaks):					36.7	RPD = 67*
Aroclor-1260	1	9.995	-0.004	154449	4.3	1	10.301	-0.001	52698	7.8		
Aroclor-1260	2	10.314	-0.001	101412	2.8	2	10.747	-0.005	88309	10.7		
Aroclor-1260	3	10.723	0.034	1831579	21.6	3	11.027	0.000	138900	8.5		
Aroclor-1260	4	11.093	0.005	411199	8.4	4	11.496	-0.052	247907	50.1		
Aroclor-1260	5	11.275	-0.003	386954	16.4	NS	---	---	---	---		
Total CollAve (5 peaks):					10.7	Total Col2Ave (4 peaks):					19.3	RPD = 57*
Corrected Ave (4 peaks):					8.0	Corrected Ave (3 peaks):					9.0	RPD = 12
Aroclor-1262	1	9.995	-0.001	154449	2.9	1	10.301	-0.001	52698	4.8		
Aroclor-1262	2	10.314	0.002	101412	2.5	2	10.747	-0.005	88309	9.1		
Aroclor-1262	3	10.723	0.036	1831579	17.4	3	11.027	0.002	138900	6.5		
Aroclor-1262	4	11.203	0.001	141169	3.6	4	11.496	-0.051	247907	28.6		
Aroclor-1262	5	11.275	0.000	386954	8.9	5	12.373	0.027	325905	39.1		
Total CollAve (5 peaks):					7.1	Total Col2Ave (5 peaks):					17.6	RPD = 86*
Corrected Ave (4 peaks):					4.5	Corrected Ave (4 peaks):					12.2	RPD = 93*
Aroclor-1268	1	11.203	0.000	141169	1.3	1	11.496	-0.052	247907	11.3		

Aroclor-1268 2	11.275	0.000	386954	3.8	2	11.601	-0.012	69494	3.3
Aroclor-1268 3	11.720	0.059	2428065	27.0	3	12.076	0.065	13292	0.7
Aroclor-1268 4	12.466	0.017	154535	0.6	4	12.924	0.089	69244	1.3
Total Col1Ave (4 peaks):			8.2	Total Col2Ave (4 peaks):			4.2	RPD = 65*	
Corrected Ave (3 peaks):			1.9	Corrected Ave (3 peaks):			1.8	RPD = 7	

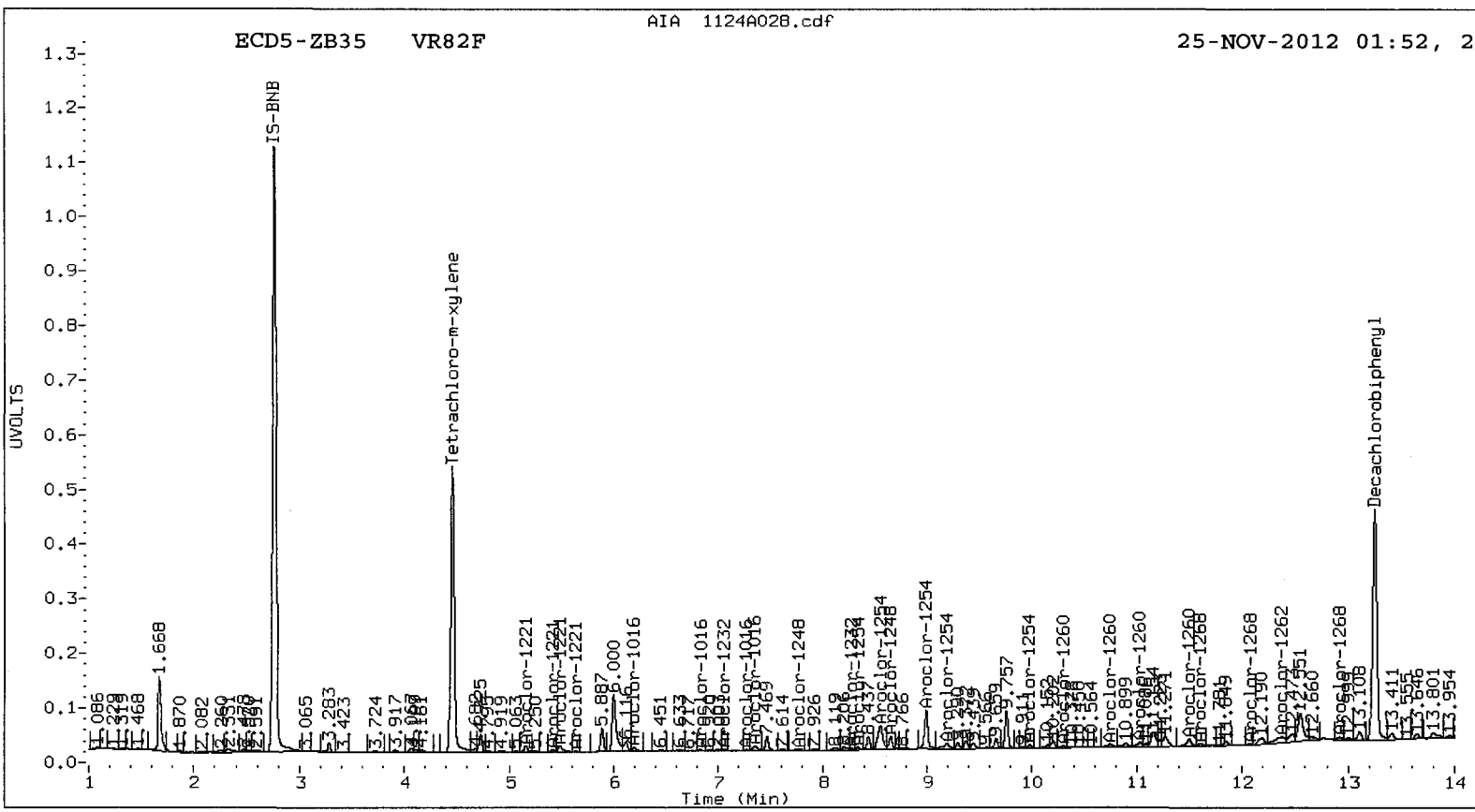
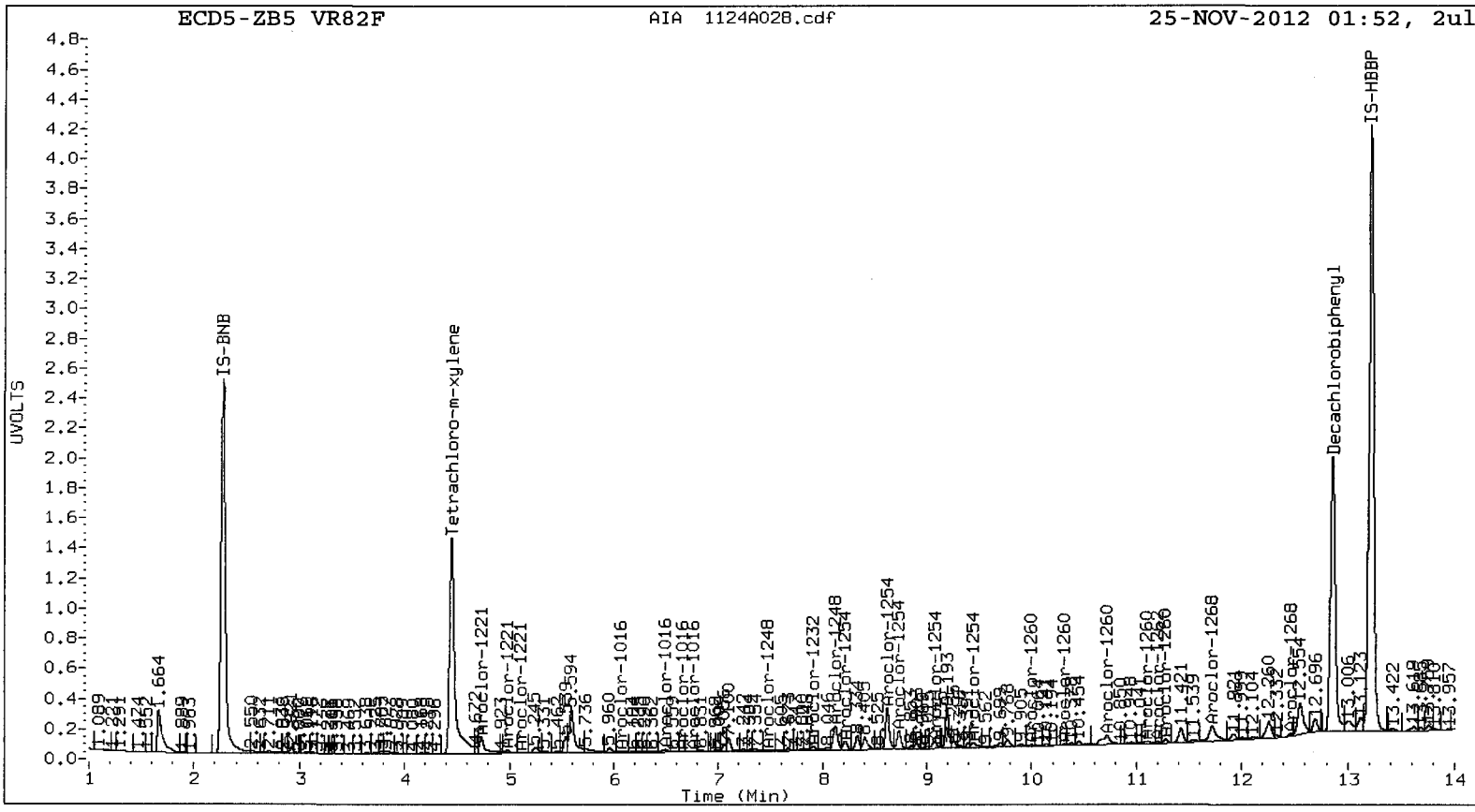
Total PCB Area Col1 (4.549 - 12.758) = 51789540 Col1 Total PCB = 0.1 ppm*

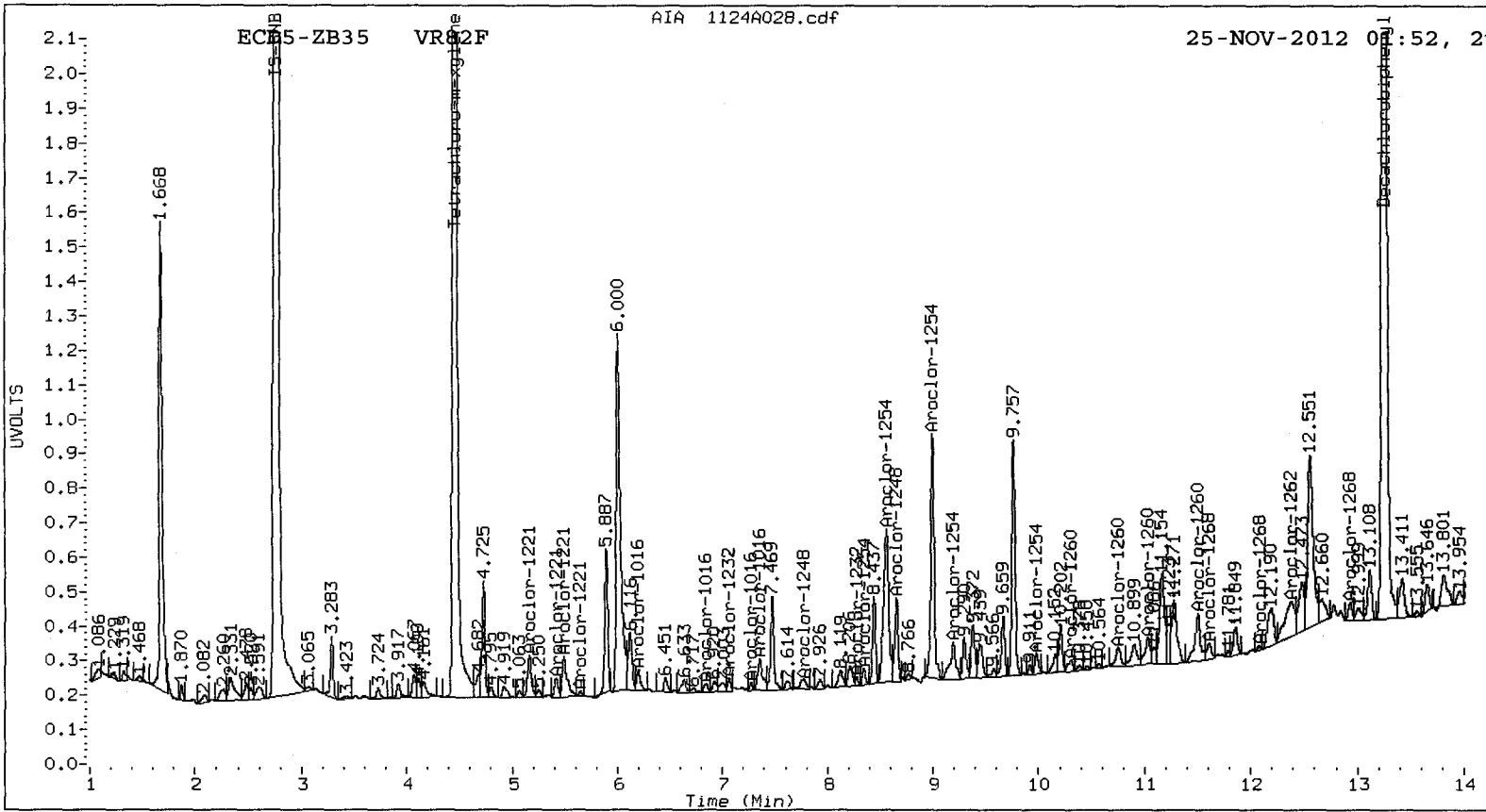
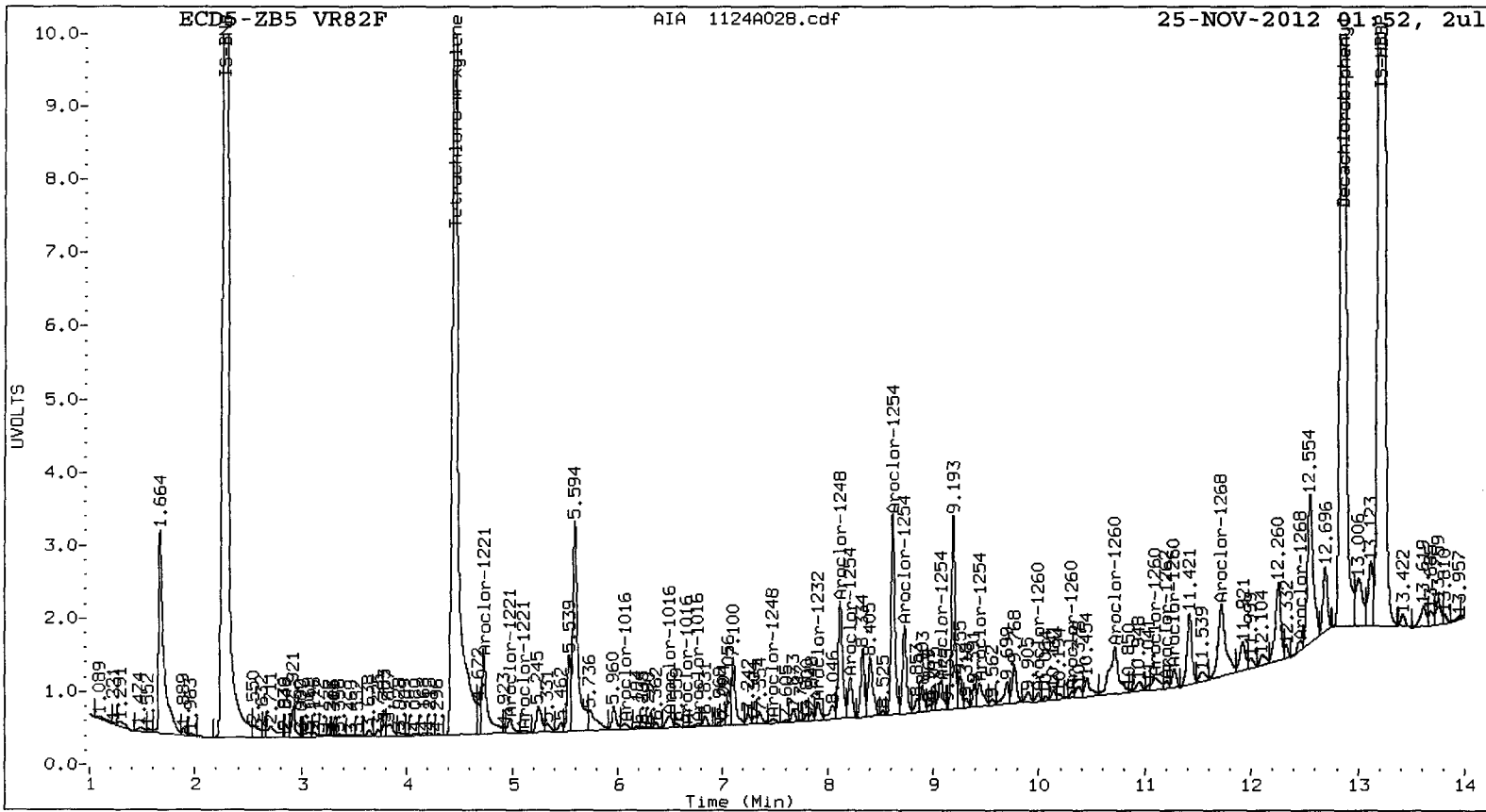
Total PCB Area Col2 (4.556 - 13.149) = 12268870 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82: 01610





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A029.d
Data file 2: 20121102.B/1124-2.b/1124A029.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82G
Client ID: SG-07-S-C-dup-12110
Injection Date: 25-NOV-2012 02:12
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	24614288	4.457	0.001	6297551	32.3	34.8	7.6	Tetrachloro-m-xylene
12.858	0.001	29175265	13.251	0.002	5979366	32.8	36.3	10.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.7	87.1
Decachlorobiphenyl	82.0	90.7

A 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36516007	16.9
Hexabromobiphenyl	64198300	59044653	-8.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12681890	-12.8
Hexabromobiphenyl	15789428	12133512	-23.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col							
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.067	-0.030	257875	12.6	1	6.194	-0.016	101425	14.3		
Aroclor-1016	2	6.493	-0.008	352202	5.5	2	6.839	-0.004	40242	2.7		
Aroclor-1016	3	6.658	0.008	66835	2.4	3	7.272	0.046	23339	6.0		
Aroclor-1016	4	6.769	0.008	144755	7.4	4	7.351	0.015	193012	43.9		
Total CollAve (4 peaks):					7.0	Total Col2Ave (4 peaks):					16.7	RPD = 82*
Corrected Ave (3 peaks):					5.1	Corrected Ave (3 peaks):					7.6	RPD = 40
Aroclor-1221	1	4.731	-0.086	1832810	205.6	1	5.159	0.018	148076	68.9		
Aroclor-1221	2	4.981	-0.014	379771	62.2	2	5.416	0.023	77595	61.3		
Aroclor-1221	3	5.117	0.016	89241	4.5	3	5.523	0.017	140716	35.4		
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0		
Total CollAve (3 peaks):					90.8	Total Col2Ave (3 peaks):					55.2	RPD = 49*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks						
Aroclor-1232	1	6.067	-0.027	257875	31.0	1	6.194	-0.016	101425	32.2		
Aroclor-1232	2	6.493	-0.004	352202	13.5	2	6.839	-0.002	40242	6.5		
Aroclor-1232	3	6.658	0.011	66835	5.9	3	7.060	0.010	51339	19.8		
Aroclor-1232	4	7.910	0.010	477551	33.6	4	8.276	-0.001	23890	10.9		
Total CollAve (4 peaks):					21.0	Total Col2Ave (4 peaks):					17.3	RPD = 19
Corrected Ave (3 peaks):					16.8	Corrected Ave (3 peaks):					12.4	RPD = 30
Aroclor-1242	1	6.067	-0.030	257875	16.2	1	6.194	-0.016	101425	18.7		
Aroclor-1242	2	6.493	-0.008	352202	7.2	2	6.839	-0.003	40242	3.5		
Aroclor-1242	3	6.658	0.008	66835	3.1	3	7.060	0.009	51339	10.7		
Aroclor-1242	4	7.910	0.008	477551	19.1	4	8.276	-0.001	23890	5.9		
Total CollAve (4 peaks):					11.4	Total Col2Ave (4 peaks):					9.7	RPD = 16
Corrected Ave (3 peaks):					8.8	Corrected Ave (3 peaks):					6.7	RPD = 27
Aroclor-1248	1	6.493	-0.004	352202	10.9	1	6.839	-0.001	40242	5.3		
Aroclor-1248	2	7.478	0.005	261469	7.7	2	7.753	0.007	44974	7.2		
Aroclor-1248	3	7.910	0.009	477551	11.2	3	8.276	0.000	23890	3.7		
Aroclor-1248	4	8.121	-0.017	2509343	76.1	4	8.651	0.029	305759	38.3		
Total CollAve (4 peaks):					26.5	Total Col2Ave (4 peaks):					13.6	RPD = 64*
Corrected Ave (3 peaks):					9.9	Corrected Ave (3 peaks):					5.4	RPD = 59*
Aroclor-1254	1	8.215	-0.009	939792	21.6	1	8.342	0.000	67700	12.3		
Aroclor-1254	2	8.621	0.024	3786227	132.1	2	8.555	0.040	969298	139.4		
Aroclor-1254	3	8.731	0.000	1858203	33.4	3	9.045	0.006	167093	31.3		
Aroclor-1254	4	9.077	-0.004	919406	15.1	4	9.187	-0.001	192581	16.4		
Aroclor-1254	5	9.442	0.001	728107	19.0	5	9.976	0.005	132844	18.8		
Total CollAve (5 peaks):					44.2	Total Col2Ave (5 peaks):					43.6	RPD = 1
Corrected Ave (4 peaks):					22.2	Corrected Ave (4 peaks):					19.7	RPD = 12
Aroclor-1260	1	9.993	-0.006	266377	7.8	1	10.302	0.000	68132	10.5		
Aroclor-1260	2	10.364	0.050	519552	15.1	2	10.746	-0.006	126018	15.9		
Aroclor-1260	3	10.724	0.036	1799926	22.0	3	11.028	0.001	126307	8.0		
Aroclor-1260	4	11.091	0.003	197061	4.2	4	11.599	0.052	159723	33.5		
Aroclor-1260	5	11.278	0.001	642168	28.2	NS	---	---	---	---		
Total CollAve (5 peaks):					15.4	Total Col2Ave (4 peaks):					17.0	RPD = 9
Corrected Ave (4 peaks):					12.3	Corrected Ave (3 peaks):					11.5	RPD = 7
Aroclor-1262	1	9.993	-0.004	266377	5.2	1	10.302	0.000	68132	6.4		
Aroclor-1262	2	10.364	0.052	519552	13.3	2	10.746	-0.006	126018	13.4		
Aroclor-1262	3	10.724	0.037	1799926	17.8	3	11.028	0.003	126307	6.1		
Aroclor-1262	4	11.204	0.002	34310	0.9	4	11.495	-0.052	234527	28.1		
Aroclor-1262	5	11.278	0.003	642168	15.4	5	12.380	0.033	228938	28.5		
Total CollAve (5 peaks):					10.5	Total Col2Ave (5 peaks):					16.5	RPD = 44*
Corrected Ave (4 peaks):					8.7	Corrected Ave (4 peaks):					13.5	RPD = 43*
Aroclor-1268	1	11.204	0.001	34310	0.3	1	11.599	0.052	159723	7.6		

Aroclor-1268 2	11.278	0.003	642168	6.5	2	---			0.0
Aroclor-1268 3	11.722	0.062	3042464	35.1	3	12.019	0.007	12287	0.7
Aroclor-1268 4	---			0.0	4	12.916	0.082	139046	2.7
Total Col1Ave (3 peaks):			14.0	Total Col2Ave (3 peaks):			3.7	RPD = 117*	
Corrected Ave: < 3 Peaks				Corrected Ave: < 3 Peaks					

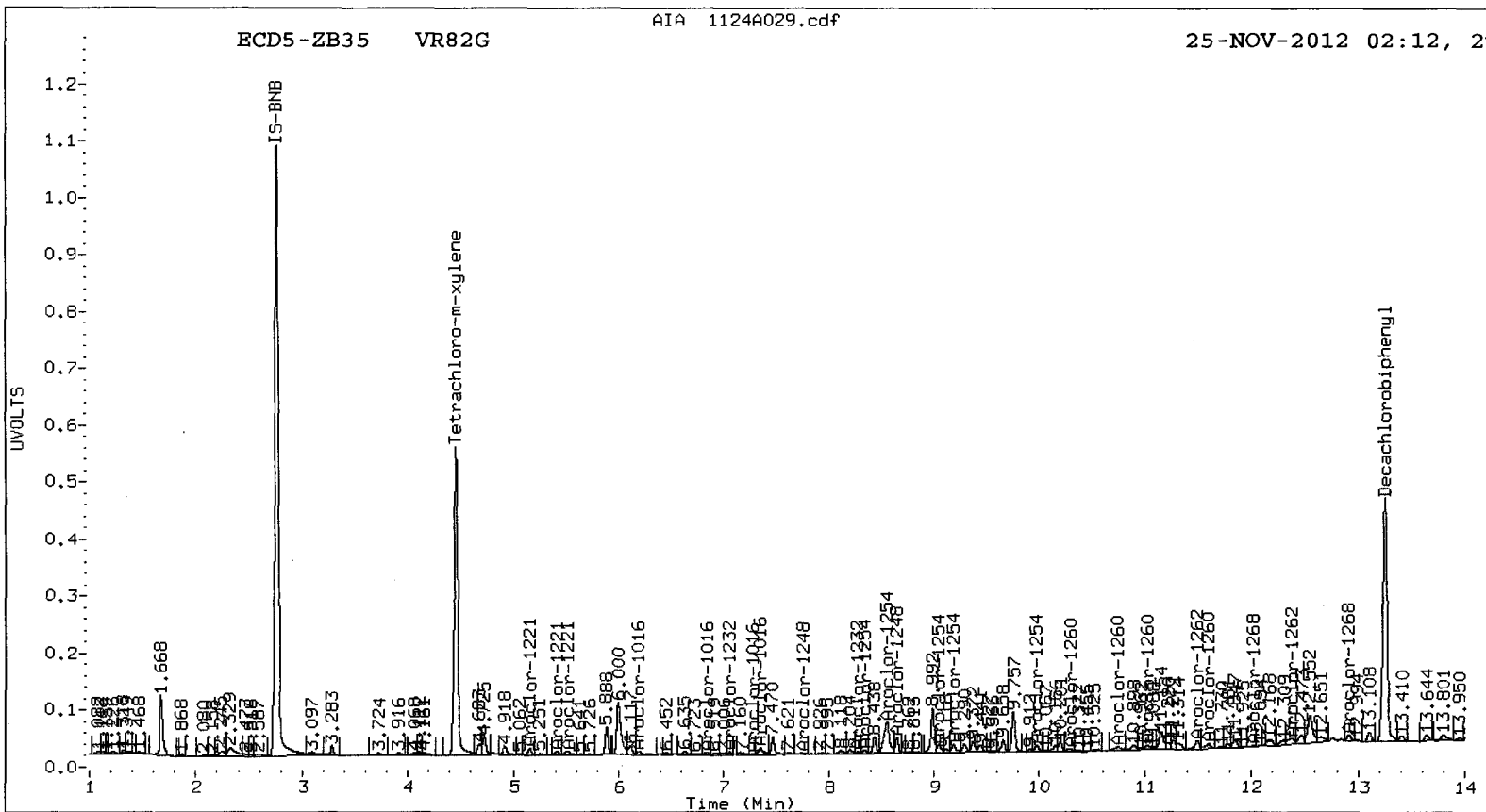
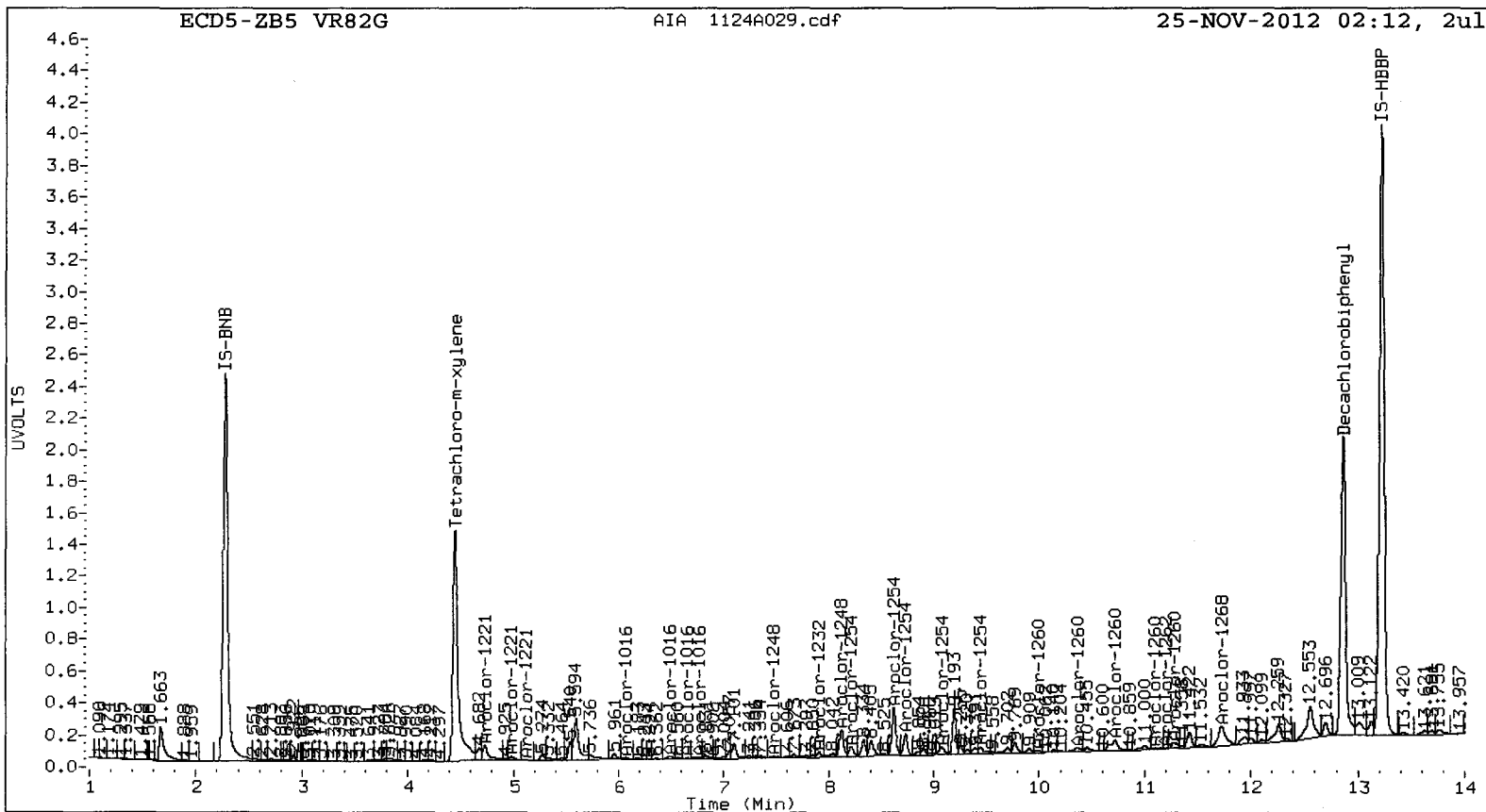
Total PCB Area Col1 (4.549 - 12.758) = 59890537 Col1 Total PCB = 0.1 ppm*

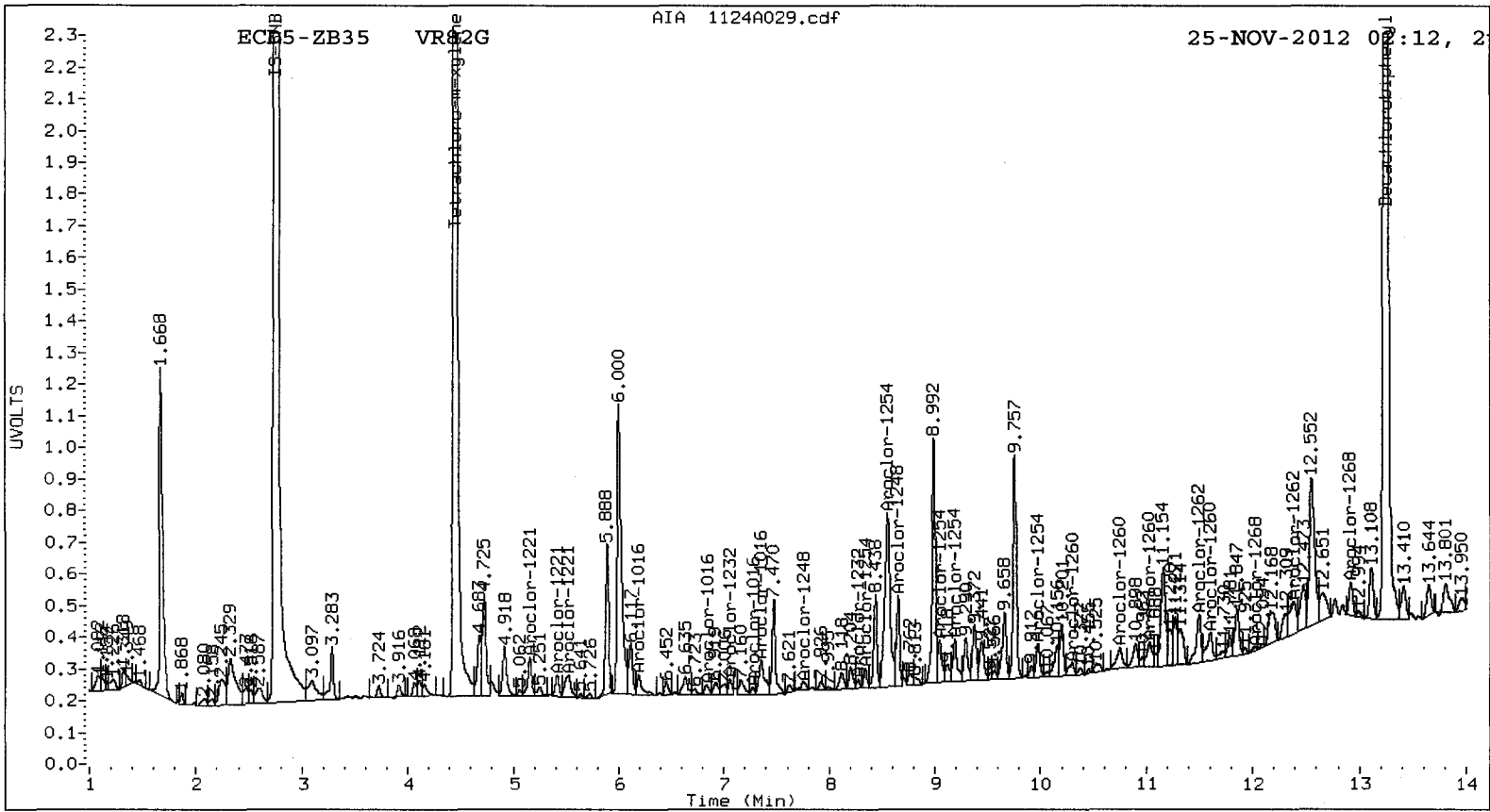
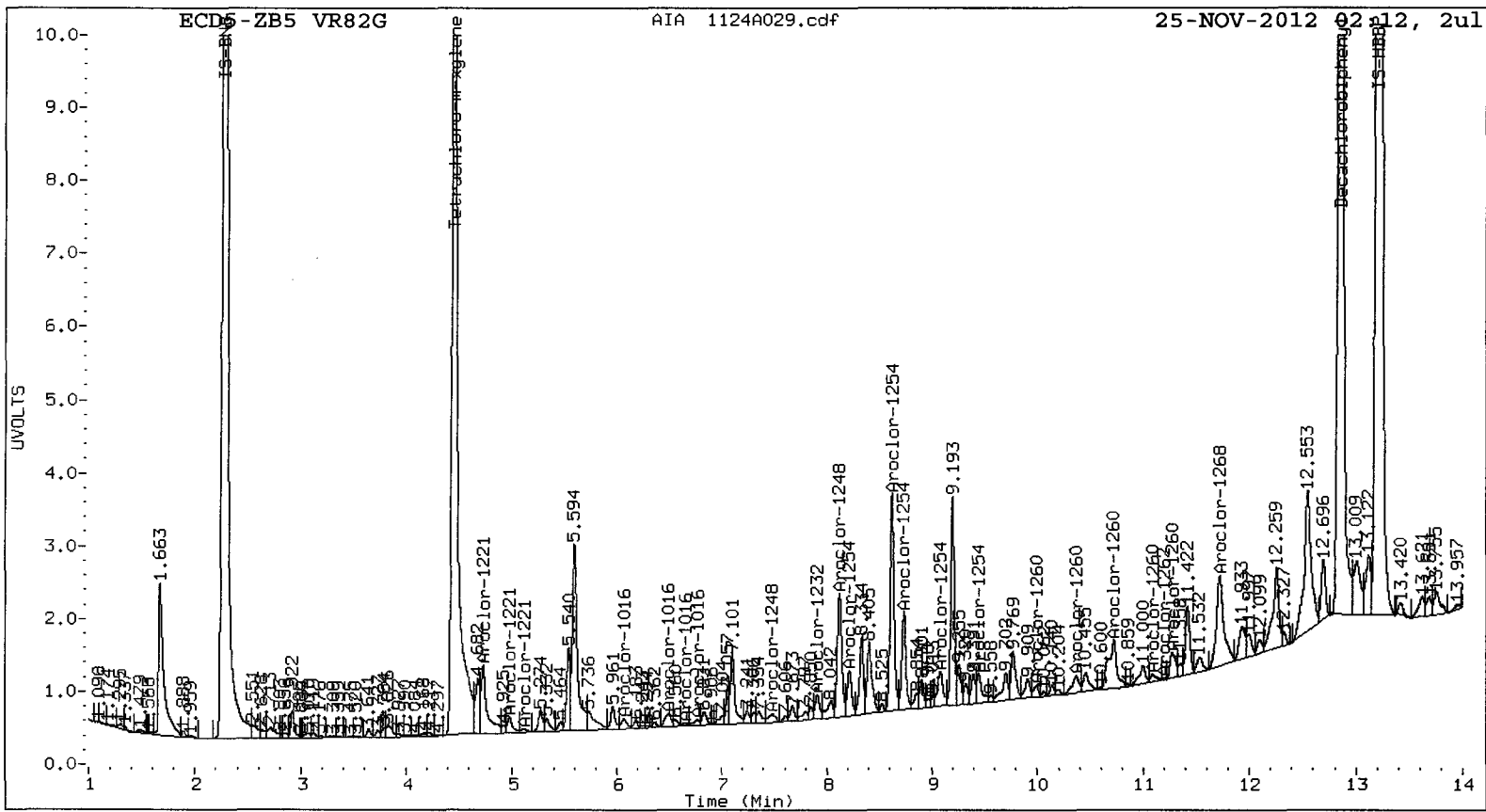
Total PCB Area Col2 (4.556 - 13.149) = 14460328 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VRB2:01615





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A030.d
Data file 2: 20121102.B/1124-2.b/1124A030.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82H
Client ID: SG-08-S-C-121108
Injection Date: 25-NOV-2012 02:33
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	24474982	4.456	0.000	6156267	32.3	33.6	4.0	Tetrachloro-m-xylene
12.859	0.001	28145467	13.249	0.001	5778248	31.1	34.2	9.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.8	84.1
Decachlorobiphenyl	77.7	85.4

J 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	36262947	16.1
Hexabromobiphenyl	64198300	60139329	-6.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12842035	-11.7
Hexabromobiphenyl	15789428	12447395	-21.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.068	-0.028	381314	18.8	1	6.195	-0.015	72109	10.0	
Aroclor-1016	2	6.495	-0.006	603321	9.5	2	6.838	-0.005	52670	3.5	
Aroclor-1016	3	6.649	-0.001	158774	5.8	3	---	---	---	0.0	
Aroclor-1016	4	6.769	0.008	222023	11.4	4	7.352	0.015	94335	21.2	
Total CollAve (4 peaks):				11.4		Total Col2Ave (3 peaks):				11.6	RPD = 1
Corrected Ave (3 peaks):				8.9		Corrected Ave: < 3 Peaks					
Aroclor-1221	1	4.810	-0.007	538229	60.8	1	5.157	0.015	151418	69.6	
Aroclor-1221	2	4.981	-0.014	371985	61.4	2	5.413	0.020	108135	84.4	
Aroclor-1221	3	5.105	0.003	254136	12.9	3	5.511	0.004	78677	19.5	
Aroclor-1221	NS	---	---	---	---	4	5.579	0.004	14289	20.5	
Total CollAve (3 peaks):				45.0		Total Col2Ave (4 peaks):				48.5	RPD = 7
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				36.6	
Aroclor-1232	1	6.068	-0.026	381314	46.2	1	6.195	-0.015	72109	22.6	
Aroclor-1232	2	6.495	-0.002	603321	23.4	2	6.838	-0.003	52670	8.4	
Aroclor-1232	3	6.649	0.002	158774	14.1	3	7.059	0.009	40766	15.5	
Aroclor-1232	4	7.909	0.008	545835	38.7	4	8.277	0.000	23947	10.7	
Total CollAve (4 peaks):				30.6		Total Col2Ave (4 peaks):				14.3	RPD = 72*
Corrected Ave (3 peaks):				25.4		Corrected Ave (3 peaks):				11.6	RPD = 75*
Aroclor-1242	1	6.068	-0.028	381314	24.2	1	6.195	-0.015	72109	13.1	
Aroclor-1242	2	6.495	-0.006	603321	12.3	2	6.838	-0.005	52670	4.5	
Aroclor-1242	3	6.649	-0.001	158774	7.5	3	7.059	0.008	40766	8.4	
Aroclor-1242	4	7.909	0.007	545835	21.9	4	8.277	0.000	23947	5.9	
Total CollAve (4 peaks):				16.5		Total Col2Ave (4 peaks):				8.0	RPD = 70*
Corrected Ave (3 peaks):				13.9		Corrected Ave (3 peaks):				6.3	RPD = 76*
Aroclor-1248	1	6.495	-0.002	603321	18.9	1	6.838	-0.002	52670	6.9	
Aroclor-1248	2	7.474	0.001	295690	8.8	2	7.774	0.028	63783	10.1	
Aroclor-1248	3	7.909	0.007	545835	12.9	3	8.277	0.001	23947	3.7	
Aroclor-1248	4	8.117	-0.020	2538178	77.5	4	8.651	0.029	210755	26.1	
Total CollAve (4 peaks):				29.5		Total Col2Ave (4 peaks):				11.7	RPD = 87*
Corrected Ave (3 peaks):				13.5		Corrected Ave (3 peaks):				6.9	RPD = 65*
Aroclor-1254	1	8.216	-0.008	880824	20.3	1	8.342	0.000	55905	10.0	
Aroclor-1254	2	8.620	0.024	3104620	109.1	2	8.557	0.041	816418	115.9	
Aroclor-1254	3	8.732	0.001	1422541	25.7	3	8.991	-0.047	736126	136.1	
Aroclor-1254	4	9.076	-0.004	811797	13.4	4	9.188	0.000	163600	13.8	
Aroclor-1254	5	9.440	-0.001	482851	12.7	5	9.975	0.003	81870	11.5	
Total CollAve (5 peaks):				26.2		Total Col2Ave (5 peaks):				57.4	RPD = 45*
Corrected Ave (4 peaks):				18.0		Corrected Ave (4 peaks):				37.8	RPD = 71*
Aroclor-1260	1	9.997	-0.001	186693	5.3	1	10.301	-0.001	57018	8.6	
Aroclor-1260	2	10.313	-0.002	132816	3.8	2	10.749	-0.004	79662	9.8	
Aroclor-1260	3	10.722	0.034	1607086	19.3	3	11.027	0.001	124569	7.7	
Aroclor-1260	4	11.090	0.002	484513	10.1	4	11.545	-0.002	32385	6.6	
Aroclor-1260	5	11.276	-0.001	395455	17.0	NS	---	---	---	---	
Total CollAve (5 peaks):				11.1		Total Col2Ave (4 peaks):				8.2	RPD = 31
Corrected Ave (4 peaks):				9.1		Corrected Ave (3 peaks):				7.6	RPD = 17
Aroclor-1262	1	9.997	0.001	186693	3.6	1	10.301	-0.001	57018	5.3	
Aroclor-1262	2	10.313	0.000	132816	3.3	2	10.749	-0.004	79662	8.3	
Aroclor-1262	3	10.722	0.036	1607086	15.6	3	11.027	0.003	124569	5.9	
Aroclor-1262	4	11.204	0.002	193636	5.0	4	11.545	-0.002	32385	3.8	
Aroclor-1262	5	11.276	0.001	395455	9.3	5	12.337	-0.010	297356	36.1	
Total CollAve (5 peaks):				7.4		Total Col2Ave (5 peaks):				11.9	RPD = 47*
Corrected Ave (4 peaks):				5.3		Corrected Ave (4 peaks):				5.8	RPD = 9
Aroclor-1268	1	11.204	0.001	193636	1.9	1	11.545	-0.002	32385	1.5	

Aroclor-1268 2	11.276	0.002	395455	3.9	2	11.605	-0.008	72887	3.5
Aroclor-1268 3	11.721	0.060	1149553	13.0	3	12.079	0.067	13659	0.8
Aroclor-1268 4	---			0.0	4	12.922	0.088	97408	1.9
Total Col1Ave (3 peaks):			6.3	Total Col2Ave (4 peaks):			1.9	RPD = 107*	
Corrected Ave: < 3 Peaks				Corrected Ave (3 peaks):			1.4		

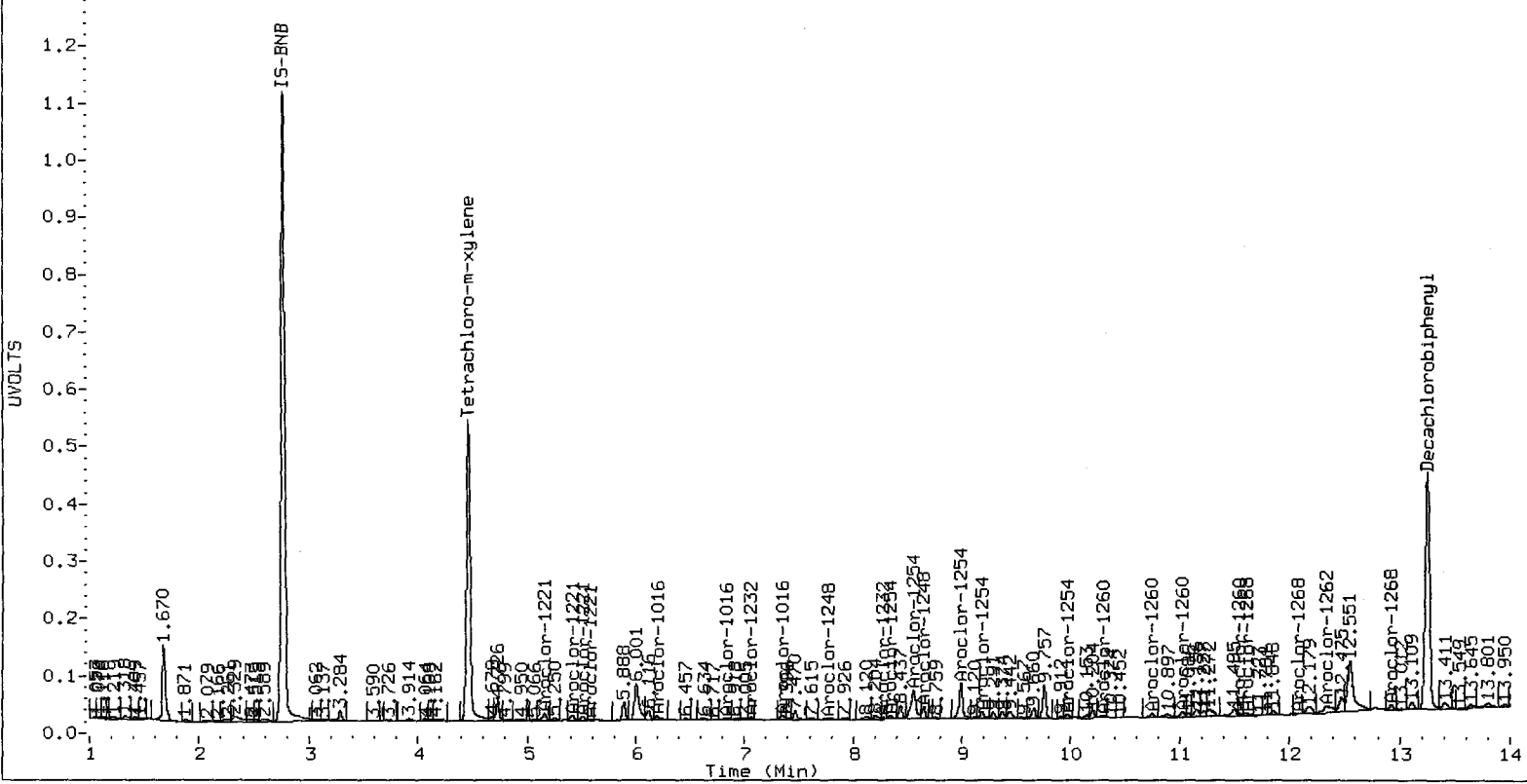
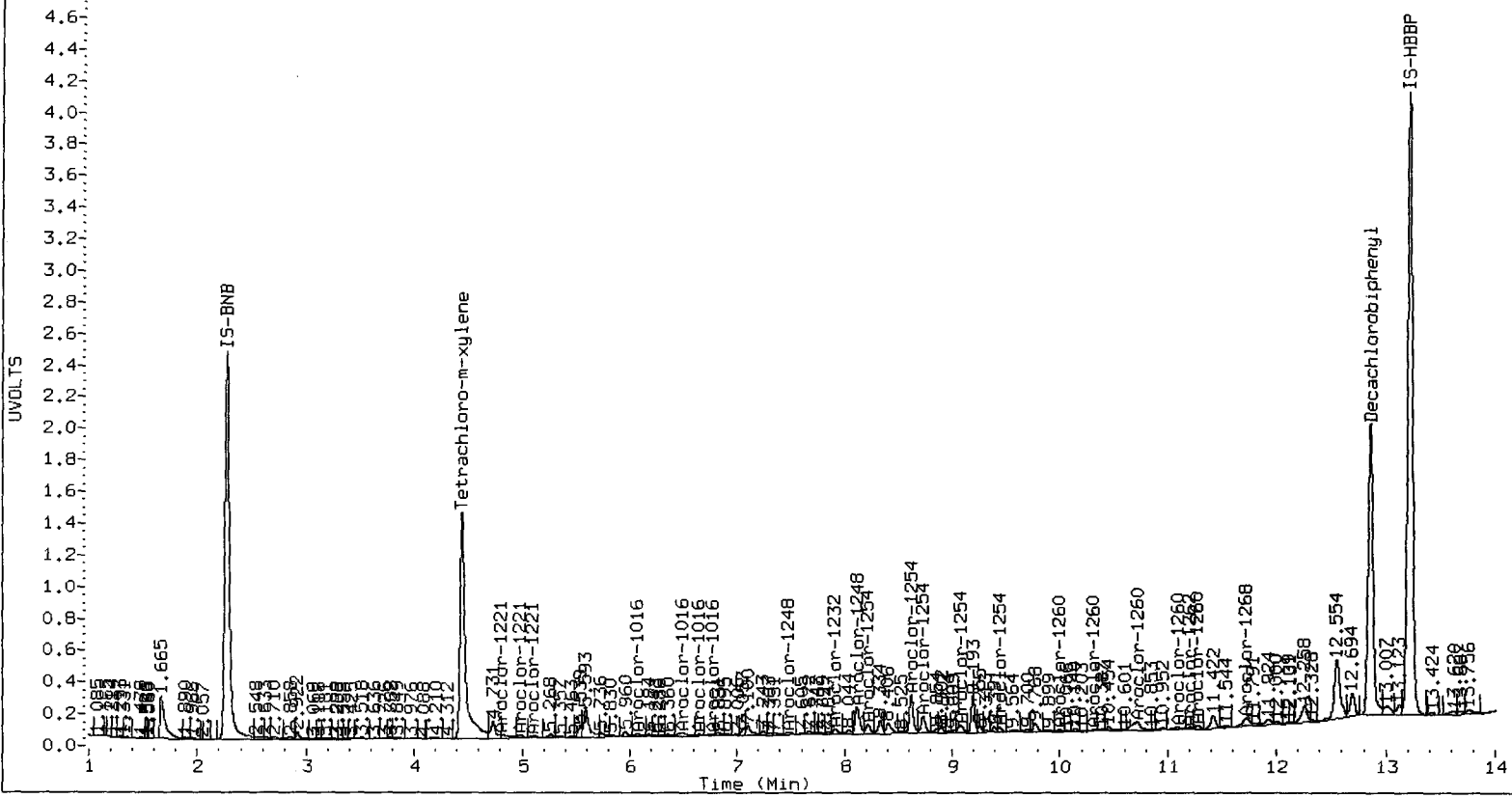
Total PCB Area Col1 (4.549 - 12.758) = 53258033 Col1 Total PCB = 0.1 ppm*

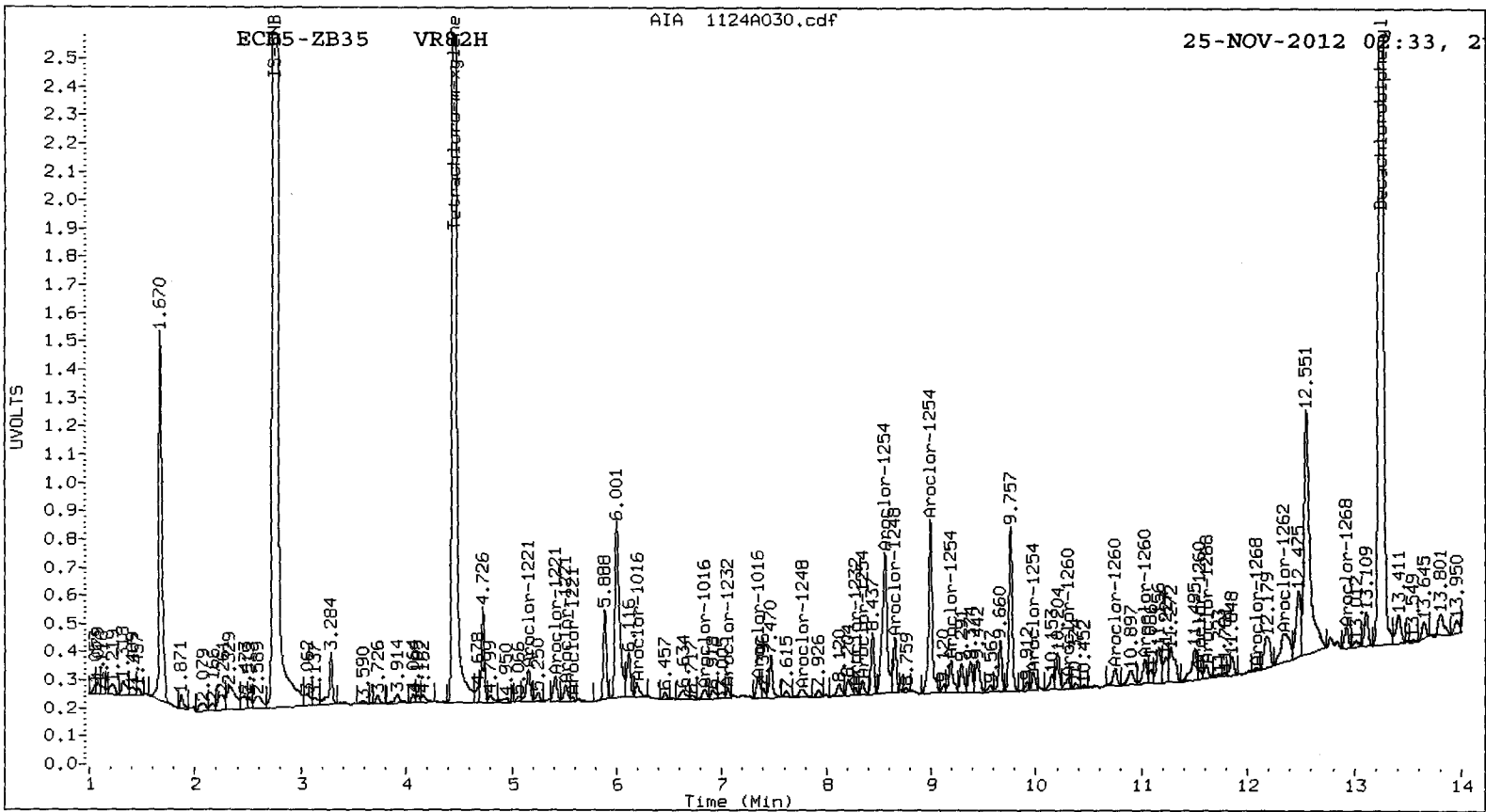
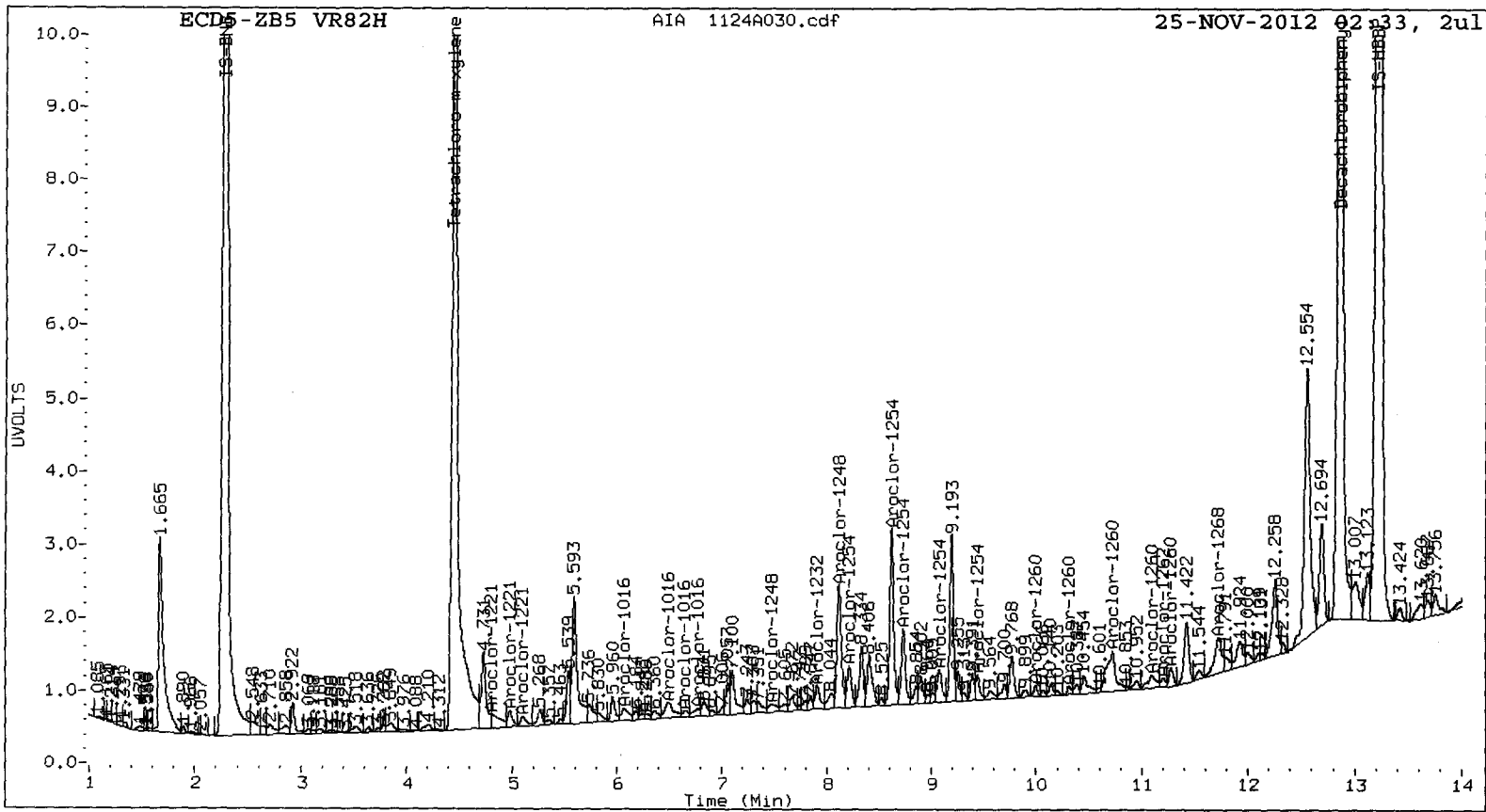
Total PCB Area Col2 (4.556 - 13.149) = 11386764 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR82 : 01620





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A031.d
Data file 2: 20121102.B/1124-2.b/1124A031.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: VR82I
Client ID: SG-09-S-C-121108
Injection Date: 25-NOV-2012 02:53
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.450	0.001	21191321	4.456	0.000	5952063	28.3	33.5	16.7	Tetrachloro-m-xylene
12.858	0.000	27489250	13.249	0.000	5693834	30.4	33.0	8.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.8	83.7
Decachlorobiphenyl	75.9	82.5

JP 11/26/12

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	35818713	14.6
Hexabromobiphenyl	64198300	60086970	-6.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	12470537	-14.2
Hexabromobiphenyl	15789428	12703058	-19.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount		
Aroclor-1016	1	6.068	-0.028	278495	13.9	1	6.193	-0.017	104447	15.0		
Aroclor-1016	2	6.487	-0.014	521061	8.3	2	6.836	-0.007	39194	2.7		
Aroclor-1016	3	6.661	0.011	56230	2.1	3	7.193	-0.033	37346	9.7		
Aroclor-1016	4	6.768	0.007	92036	4.8	4	7.352	0.016	173202	40.1		
Total CollAve (4 peaks):					7.3	Total Col2Ave (4 peaks):					16.8	RPD = 79*
Corrected Ave (3 peaks):					5.1	Corrected Ave (3 peaks):					9.1	RPD = 57*
Aroclor-1221	1	4.731	-0.086	2106527	240.9	1	5.160	0.019	409726	193.9		
Aroclor-1221	2	4.980	-0.015	303820	50.7	2	5.416	0.023	768712	617.8		
Aroclor-1221	3	5.121	0.019	59899	3.1	3	5.520	0.014	63605	16.3		
Aroclor-1221	NS	---	---	---	---	4	5.584	0.009	38458	57.0		
Total CollAve (3 peaks):					98.3	Total Col2Ave (4 peaks):					221.2	RPD = 77*
Corrected Ave: 3 Peaks						Corrected Ave (3 peaks):					89.0	
Aroclor-1232	1	6.068	-0.026	278495	34.1	1	6.193	-0.017	104447	33.7		
Aroclor-1232	2	6.487	-0.010	521061	20.4	2	6.836	-0.005	39194	6.4		
Aroclor-1232	3	6.661	0.014	56230	5.1	3	7.059	0.009	37178	14.6		
Aroclor-1232	4	7.909	0.008	382764	27.5	4	8.275	-0.001	28570	13.2		
Total CollAve (4 peaks):					21.8	Total Col2Ave (4 peaks):					17.0	RPD = 25
Corrected Ave (3 peaks):					17.6	Corrected Ave (3 peaks):					11.4	RPD = 43*
Aroclor-1242	1	6.068	-0.028	278495	17.9	1	6.193	-0.017	104447	19.6		
Aroclor-1242	2	6.487	-0.014	521061	10.8	2	6.836	-0.006	39194	3.5		
Aroclor-1242	3	6.661	0.011	56230	2.7	3	7.059	0.007	37178	7.9		
Aroclor-1242	4	7.909	0.007	382764	15.6	4	8.275	-0.001	28570	7.2		
Total CollAve (4 peaks):					11.7	Total Col2Ave (4 peaks):					9.5	RPD = 21
Corrected Ave (3 peaks):					9.7	Corrected Ave (3 peaks):					6.2	RPD = 44*
Aroclor-1248	1	6.487	-0.010	521061	16.5	1	6.836	-0.004	39194	5.3		
Aroclor-1248	2	7.495	0.022	132176	4.0	2	7.750	0.004	49486	8.1		
Aroclor-1248	3	7.909	0.007	382764	9.1	3	8.275	0.000	28570	4.5		
Aroclor-1248	4	8.115	-0.022	2054187	63.5	4	8.651	0.029	171388	21.8		
Total CollAve (4 peaks):					23.3	Total Col2Ave (4 peaks):					9.9	RPD = 80*
Corrected Ave (3 peaks):					9.9	Corrected Ave (3 peaks):					6.0	RPD = 50*
Aroclor-1254	1	8.217	-0.008	746779	17.5	1	8.341	-0.001	58915	10.9		
Aroclor-1254	2	8.620	0.024	3400398	121.0	2	8.557	0.041	773513	113.1		
Aroclor-1254	3	8.731	-0.001	1474303	27.0	3	9.038	-0.001	45999	8.8		
Aroclor-1254	4	9.075	-0.005	835431	14.0	4	9.187	-0.002	168999	14.7		
Aroclor-1254	5	9.443	0.002	450201	12.0	5	9.973	0.001	83487	12.0		
Total CollAve (5 peaks):					38.3	Total Col2Ave (5 peaks):					31.9	RPD = 18
Corrected Ave (4 peaks):					17.6	Corrected Ave (4 peaks):					11.6	RPD = 41*
Aroclor-1260	1	9.995	-0.003	190225	5.4	1	10.302	0.000	59498	8.8		
Aroclor-1260	2	10.313	-0.001	168490	4.8	2	10.747	-0.006	113432	13.6		
Aroclor-1260	3	10.723	0.035	1777225	21.4	3	11.026	-0.001	151758	9.2		
Aroclor-1260	4	11.095	0.007	381776	8.0	4	11.495	-0.052	233243	46.7		
Aroclor-1260	5	11.274	-0.003	398575	17.2	NS	---	---	---	---		
Total CollAve (5 peaks):					11.4	Total Col2Ave (4 peaks):					19.6	RPD = 53*
Corrected Ave (4 peaks):					8.9	Corrected Ave (3 peaks):					10.5	RPD = 17
Aroclor-1262	1	9.995	-0.001	190225	3.6	1	10.302	0.000	59498	5.4		
Aroclor-1262	2	10.313	0.001	168490	4.2	2	10.747	-0.006	113432	11.5		
Aroclor-1262	3	10.723	0.036	1777225	17.3	3	11.026	0.001	151758	7.0		
Aroclor-1262	4	11.202	0.000	185147	4.8	4	11.495	-0.052	233243	26.7		
Aroclor-1262	5	11.274	-0.001	398575	9.4	5	12.374	0.027	205199	24.4		
Total CollAve (5 peaks):					7.9	Total Col2Ave (5 peaks):					15.0	RPD = 62*
Corrected Ave (4 peaks):					5.5	Corrected Ave (4 peaks):					12.1	RPD = 75*
Aroclor-1268	1	11.202	-0.001	185147	1.8	1	11.495	-0.052	233243	10.6		

Aroclor-1268 2	11.274	0.000	398575	4.0	2	11.603	-0.010	61408	2.9
Aroclor-1268 3	11.719	0.058	2208529	25.1	3	12.010	-0.002	16735	0.9
Aroclor-1268 4	12.460	0.011	120201	0.5	4	12.924	0.089	89582	1.7
Total Col1Ave (4 peaks):			7.8	Total Col2Ave (4 peaks):			4.0	RPD = 64*	
Corrected Ave (3 peaks):			2.1	Corrected Ave (3 peaks):			1.8	RPD = 13	

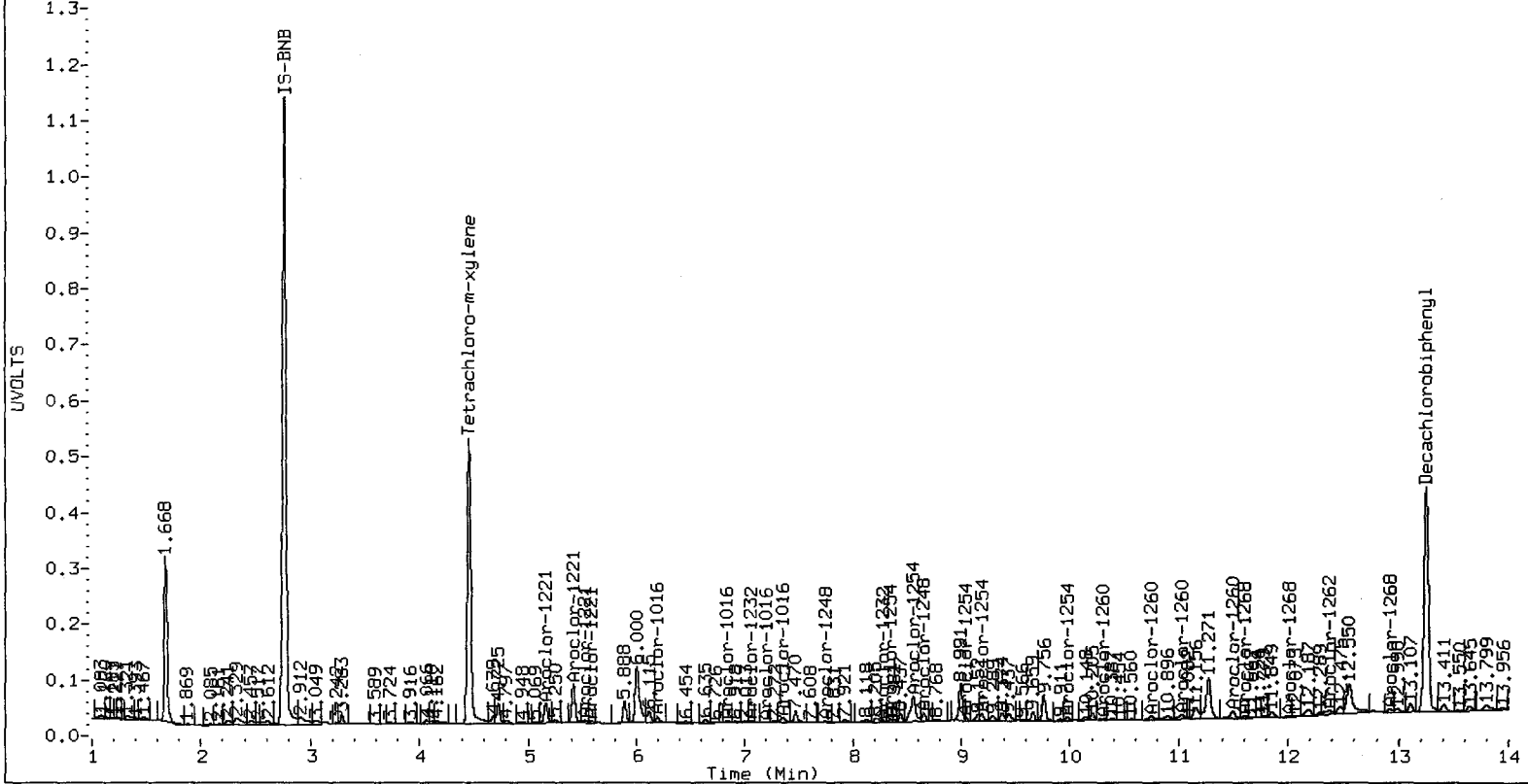
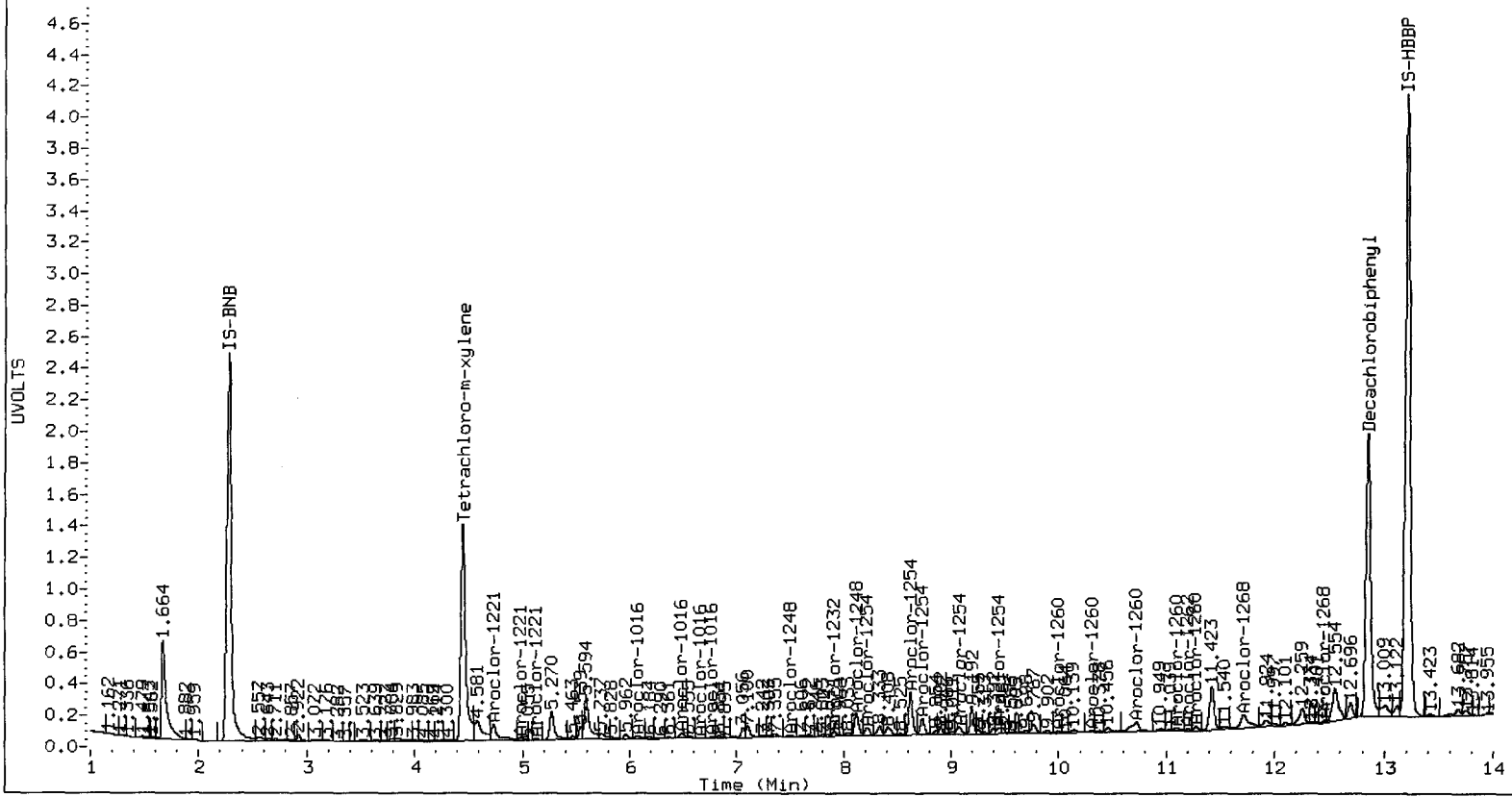
Total PCB Area Col1 (4.549 - 12.758) = 58322483 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 13917588 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

VR02 : 01625



VR02: 01526

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A034.d
Data file 2: 20121102.B/1124-2.b/1124A034.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 25-NOV-2012 03:54
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	24668360	4.457	0.001	6249540	18.9	20.4	7.9	Tetrachloro-m-xylene
12.858	0.000	29550344	13.249	0.000	5792502	19.6	20.4	4.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	47.3	51.1
Decachlorobiphenyl	48.9	51.1

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31244918	62493583	100.0 <-
Hexabromobiphenyl	64198300	100245162	56.1

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	14536489	21438781	47.5
Hexabromobiphenyl	15789428	20870192	32.2

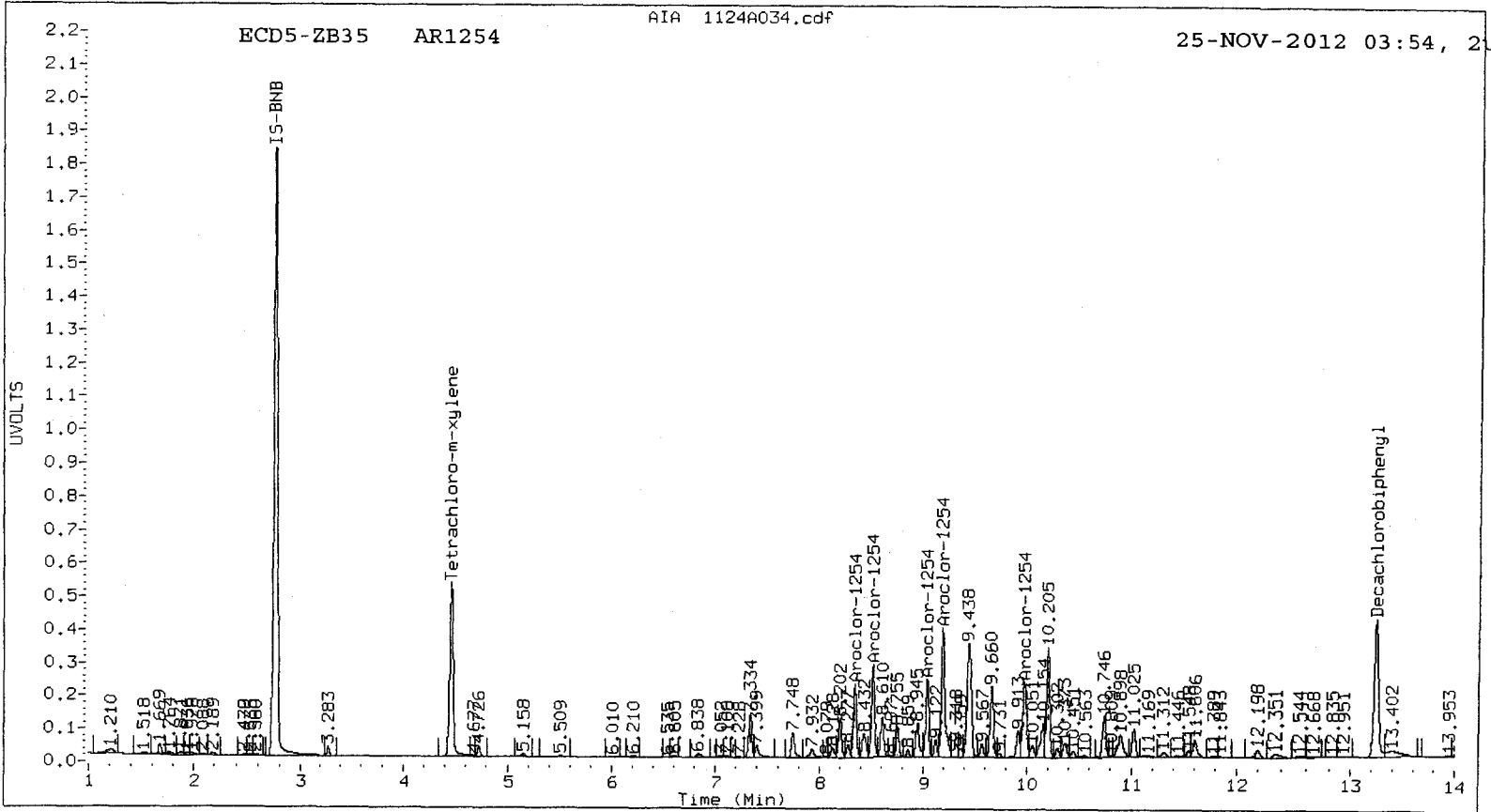
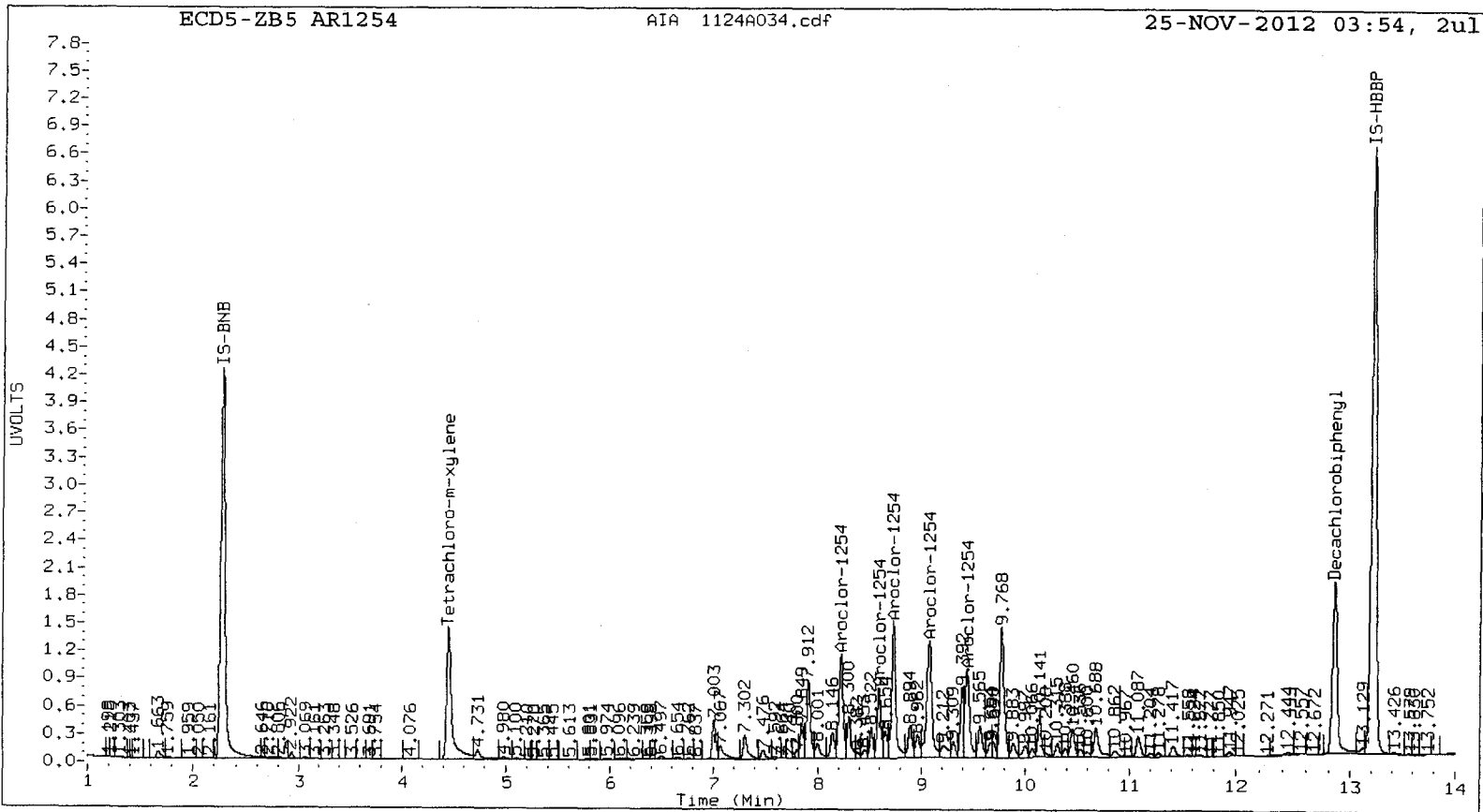
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	8.225	0.000	15715313	210.6	1	8.342	0.000	2347834	252.2	
Aroclor-1254	2	8.597	0.000	9234499	188.3	2	8.516	0.000	2991924	254.5	
Aroclor-1254	3	8.731	0.000	21194108	222.3	3	9.039	0.000	2486829	275.3	
Aroclor-1254	4	9.080	0.000	22903389	219.5	4	9.188	0.000	4833049	243.9	
Aroclor-1254	5	9.441	0.000	14524448	221.3	5	9.972	0.000	2984976	250.1	
Total Col1Ave (5 peaks):				212.4		Total Col2Ave (5 peaks):				255.2	RPD = 18
Corrected Ave (4 peaks):				209.9		Corrected Ave (4 peaks):				250.2	RPD = 17

Total PCB Area Col1 (4.549 - 12.758) = 227800876 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 49210061 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20121102.B/1124-1.b/1124A035.d
Data file 2: 20121102.B/1124-2.b/1124A035.d
Method: /chem2/ecd5.i/20121102.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 25-NOV-2012 04:14
Ical Date: 02-NOV-2012
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
4.449	0.000	15805093	4.456	0.000	3855164	19.0	19.9	4.7	Tetrachloro-m-xylene
12.858	0.001	19477515	13.249	0.000	3713230	19.5	20.2	3.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	47.6	49.9
Decachlorobiphenyl	48.8	50.4

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	31244918	39750643	27.2
Hexabromobiphenyl	64198300	66236820	3.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	14536489	13556875	-6.7
Hexabromobiphenyl	15789428	13546910	-14.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-NOV-2012
- <- Indicates standard response outside Limits (-50 to +100%)

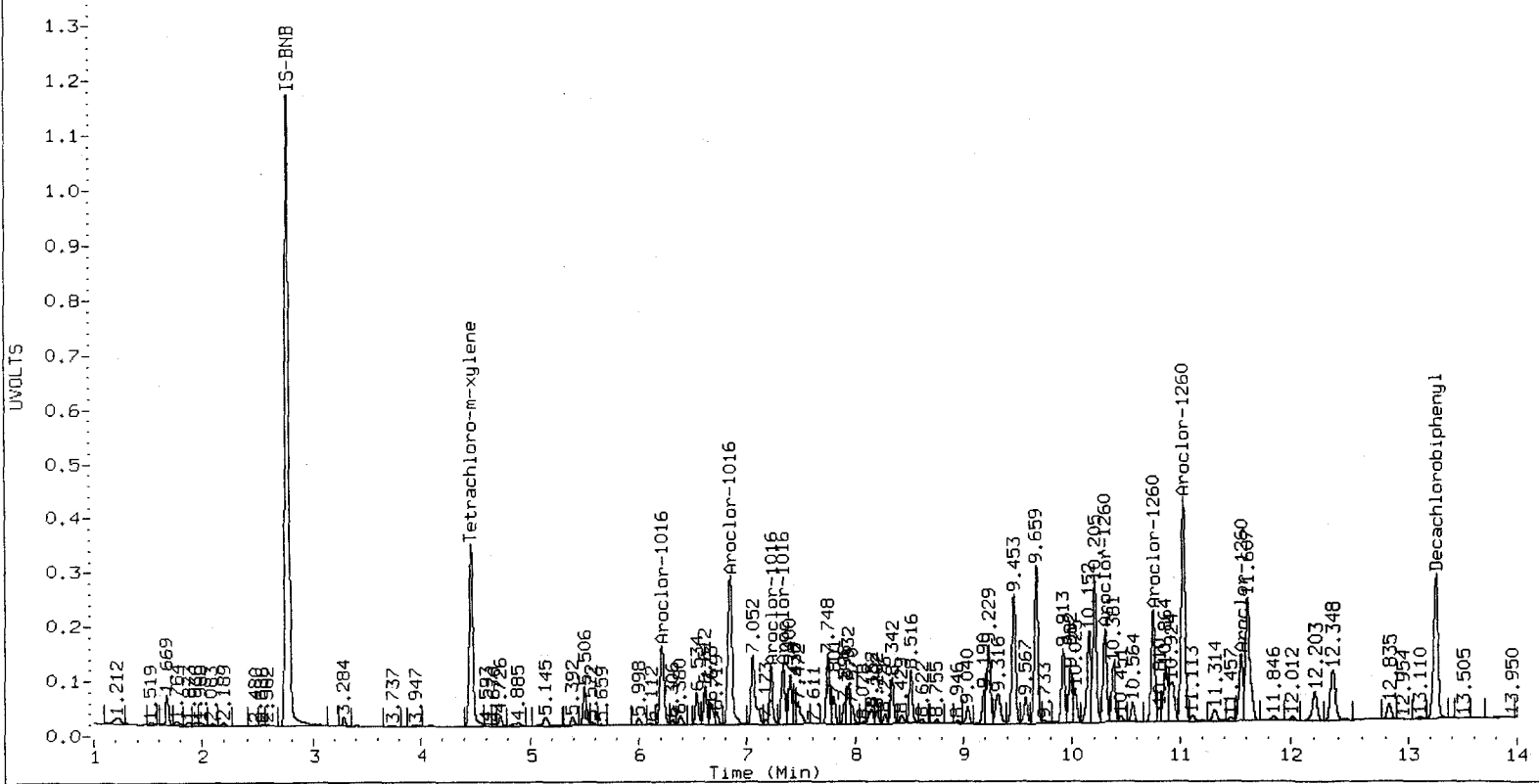
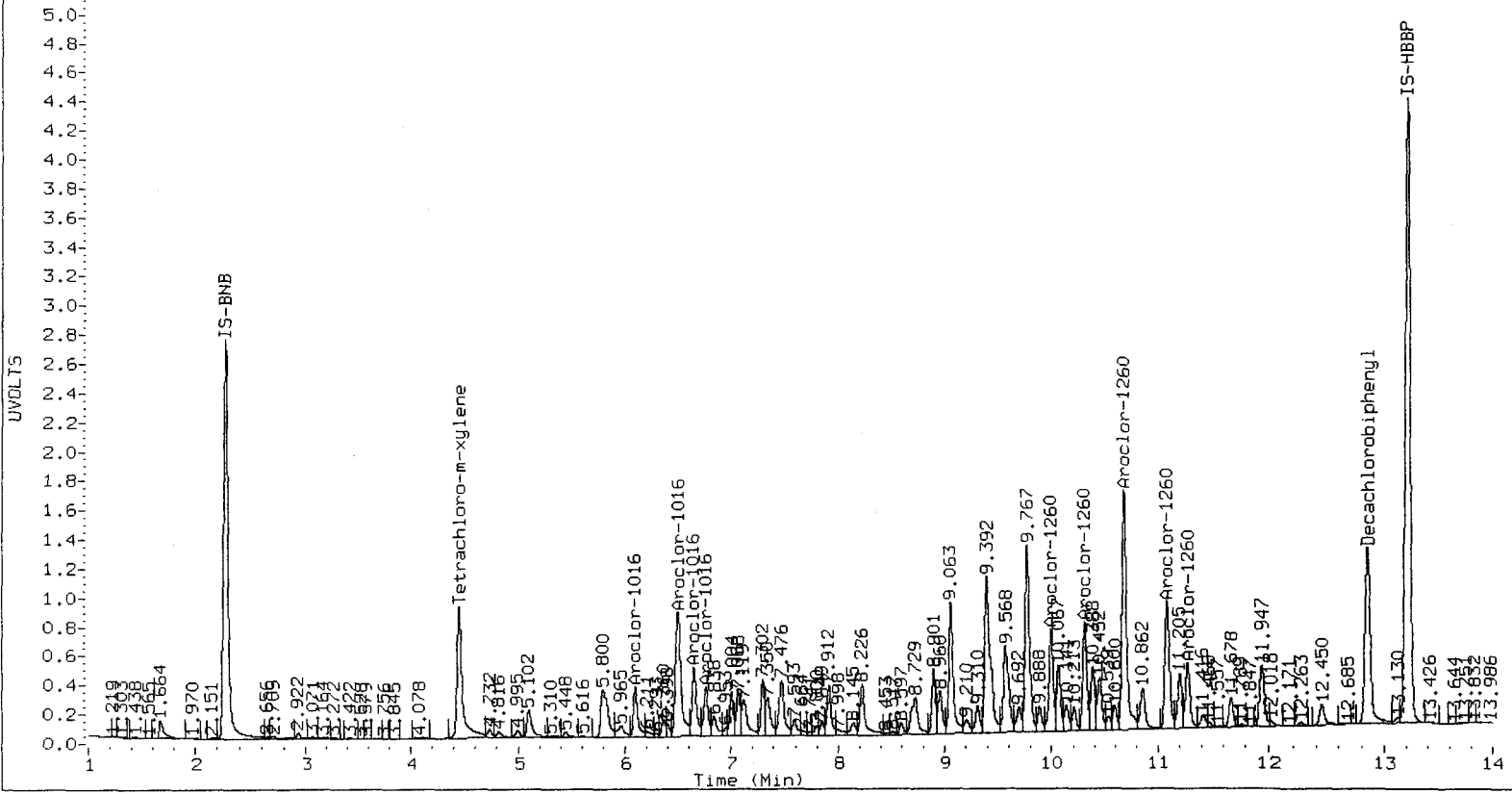
ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	6.097	0.001	4974119	223.8	1	6.210	0.000	1832410	241.3	
Aroclor-1016	2	6.501	0.001	15979472	230.7	2	6.843	0.000	3896962	242.5	
Aroclor-1016	3	6.650	0.000	6792498	227.3	3	7.227	0.000	1040668	249.0	
Aroclor-1016	4	6.762	0.001	5089017	238.1	4	7.336	0.000	1146218	243.8	
Total Col1Ave (4 peaks):				230.0	Total Col2Ave (4 peaks):				244.2	RPD = 6	
Corrected Ave (3 peaks):				227.3	Corrected Ave (3 peaks):				242.6	RPD = 7	
Aroclor-1260	1	9.999	0.001	9779502	254.1	1	10.302	0.000	1958302	270.8	
Aroclor-1260	2	10.315	0.000	9714857	251.1	2	10.753	0.000	2429753	273.8	
Aroclor-1260	3	10.689	0.001	24760871	269.9	3	11.026	0.000	4914030	278.3	
Aroclor-1260	4	11.088	0.000	12749576	242.5	4	11.547	0.000	1422380	267.3	
Aroclor-1260	5	11.277	0.000	6545696	256.2	NS	---			----	
Total Col1Ave (5 peaks):				254.7	Total Col2Ave (4 peaks):				272.5	RPD = 7	
Corrected Ave (4 peaks):				250.9	Corrected Ave (3 peaks):				270.6	RPD = 8	

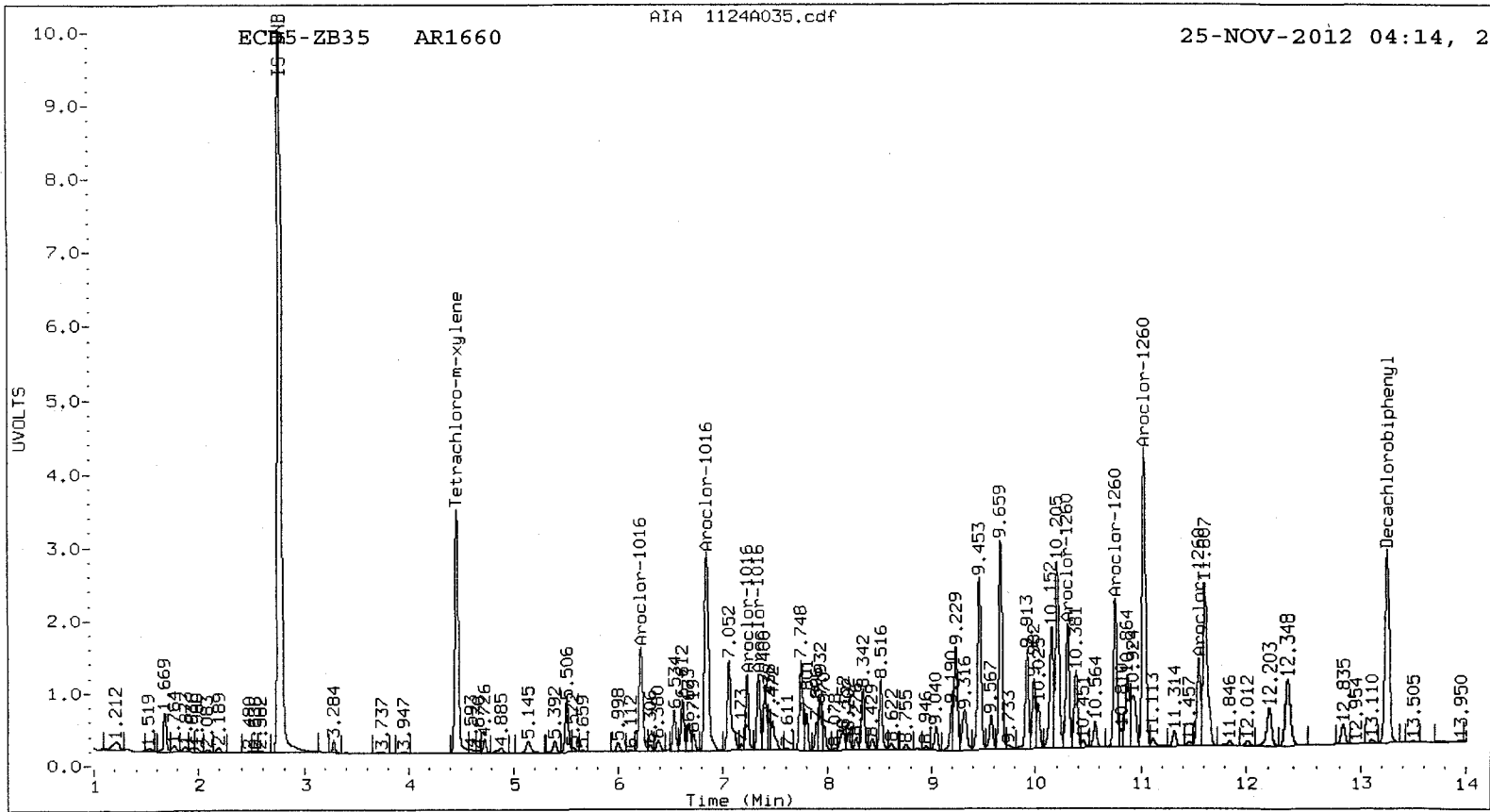
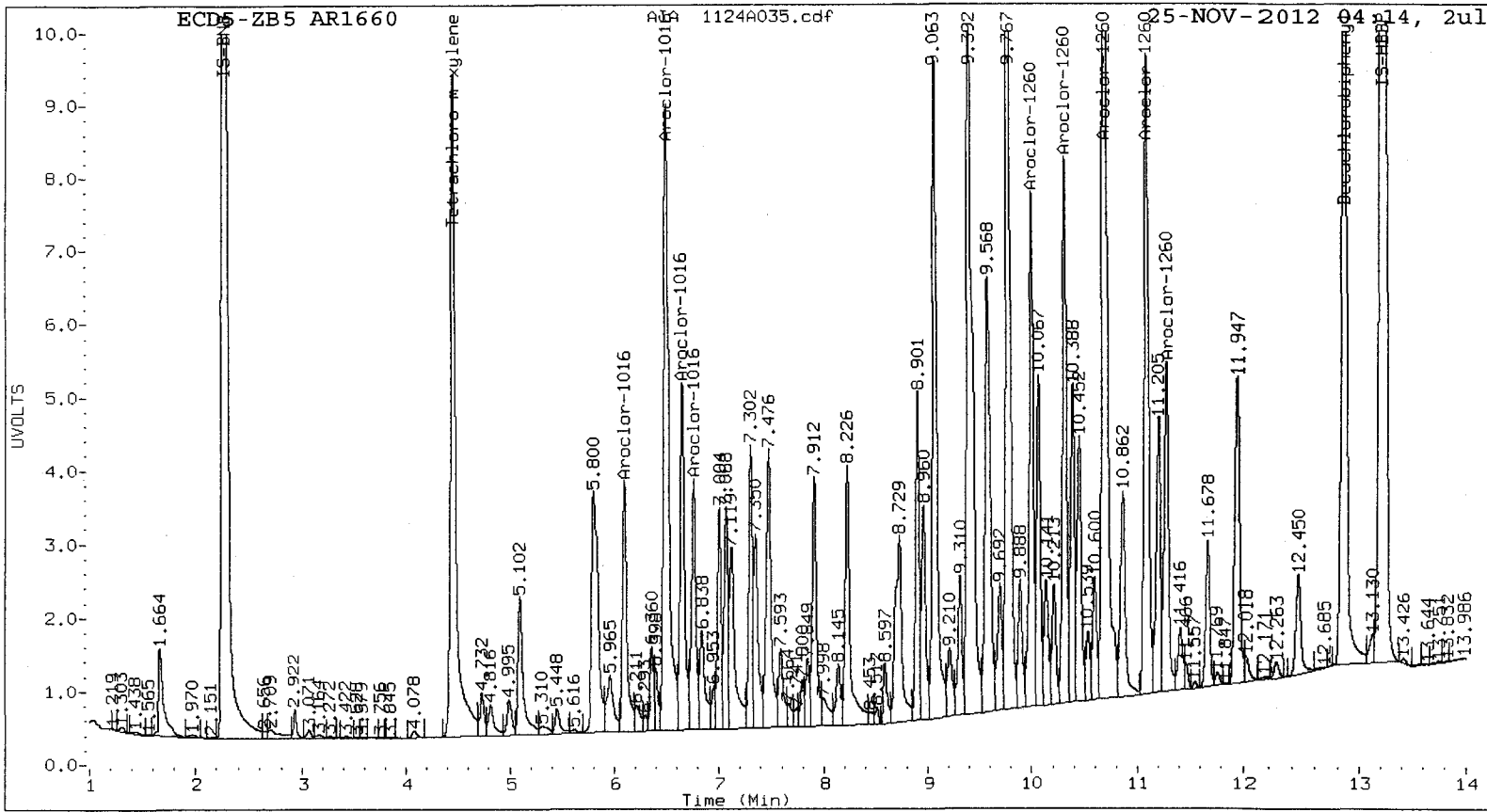
Total PCB Area Col1 (4.549 - 12.758) = 301040613 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.556 - 13.149) = 61970038 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A007.d

ARI ID: VR58A

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.215	0.027	915801	8.649	0.045	245652	0.002	0.002	5.3	2,4-DDE
8.730	-0.008	1149737	9.289	-0.002	81709	0.003	0.001	112.5*	2,4-DDD
9.309	0.047	153079	9.754	0.001	543712	0.000	0.004#	----	2,4-DDT
8.618	-0.002	2728054	8.989	-0.002	541164	0.004	0.003	26.6	4,4-DDE
9.253	0.012	578823	9.754	0.001	543712	0.001	0.004#	104.8*	4,4-DDD
9.700	-0.004	536700	10.201	0.009	236681	0.001	0.001	44.4*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A008.d

ARI ID: VR58B

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.215	0.027	2140417	8.650	0.046	611832	0.005	0.006	12.1	2,4-DDE
8.730	-0.008	2569052	9.289	-0.002	207696	0.007	0.002	103.0*	2,4-DDD
9.310	0.049	192251	9.756	0.003	1058161	0.000	0.008#	----	2,4-DDT
8.619	0.000	7386619	8.991	0.000	1629951	0.011	0.010	15.7	4,4-DDE
9.254	0.013	1230474	9.756	0.003	1058161	0.003	0.008#	98.6*	4,4-DDD
9.699	-0.005	762755	10.202	0.010	435249	0.001	0.003	68.5*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A009.d

ARI ID: BR58C

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.214	0.026	1095215	8.650	0.046	355674	0.003	0.003	25.3	2,4-DDE
8.728	-0.009	1794121	9.288	-0.002	167151	0.004	0.002	91.8*	2,4-DDD
9.254	-0.007	613854	9.755	0.002	748462	0.000	0.006#	----	2,4-DDT
8.619	0.000	4427227	8.991	0.000	1130591	0.007	0.007	0.6	4,4-DDE
9.191	-0.050	2753270	9.755	0.002	748462	0.006	0.006#	6.7	4,4-DDD
9.695	-0.009	340312	10.203	0.011	201271	0.001	0.001	72.1*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A010.d

ARI ID: VR58D

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.217	0.030	1354042	8.605	0.001	90371	0.003	0.001	118.2*	2,4-DDE
8.729	-0.008	2327485	9.289	-0.001	182225	0.006	0.002	107.1*	2,4-DDD
9.254	-0.007	596220	9.755	0.002	741617	0.000	0.006#	----	2,4-DDT
8.619	-0.001	4338427	8.990	-0.001	946015	0.006	0.005	19.3	4,4-DDE
9.192	-0.050	2700491	9.755	0.002	741617	0.006	0.006#	8.6	4,4-DDD
9.699	-0.005	513402	10.203	0.011	334558	0.001	0.002	77.9*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A011.d

ARI ID: VR58E

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.216	0.028	1027759	8.648	0.045	268231	0.002	0.002	2.8	2,4-DDE
8.729	-0.009	1895953	9.289	-0.002	149595	0.005	0.001	105.0*	2,4-DDD
9.254	-0.007	569593	9.755	0.001	735935	0.000	0.006#	----	2,4-DDT
8.620	0.001	5435180	8.990	-0.002	967303	0.008	0.006	37.0	4,4-DDE
9.192	-0.050	2589669	9.755	0.001	735935	0.006	0.006#	3.0	4,4-DDD
9.700	-0.004	453358	10.202	0.010	225024	0.001	0.001	55.7*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A012.d

ARI ID: VR58F

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.220	0.032	705150	8.607	0.003	68224	0.002	0.001	86.4*	2,4-DDE
8.730	-0.008	1076363	9.291	0.000	86515	0.003	0.001	100.7*	2,4-DDD
9.254	-0.007	187242	9.755	0.001	256861	0.000	0.002#	----	2,4-DDT
8.619	-0.001	2316506	8.989	-0.002	495604	0.003	0.003	15.0	4,4-DDE
9.192	-0.050	977158	9.755	0.001	256861	0.002	0.002#	6.8	4,4-DDD
9.695	-0.010	214774	10.204	0.011	195269	0.000	0.001	108.6*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A015.d

ARI ID: VR58G

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.216	0.029	157860	8.557	-0.047	100313	0.000	0.001	87.0*	2,4-DDE
8.729	-0.008	256751	0.000	-9.290	0	0.001	0.000	----	2,4-DDD
9.251	-0.010	53963	9.756	0.002	47973	0.000	0.000#	----	2,4-DDT
8.616	-0.004	256664	8.989	-0.002	43111	0.000	0.000	41.2*	4,4-DDE
9.190	-0.052	257651	9.756	0.002	47973	0.001	0.000#	43.2*	4,4-DDD
9.657	-0.047	87989	10.203	0.011	24992	0.000	0.000	2.8	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A016.d

ARI ID: VR58H

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.213	0.025	101251	8.558	-0.045	196740	0.000	0.002	154.2*	2,4-DDE
8.729	-0.008	163056	9.281	-0.009	11665	0.000	0.000	111.3*	2,4-DDD
0.000	-9.261	0	9.755	0.002	32559	0.000	0.000#	----	2,4-DDT
8.619	-0.001	195602	8.990	-0.001	42264	0.000	0.000	17.1	4,4-DDE
9.253	0.011	45508	9.755	0.002	32559	0.000	0.000#	84.6*	4,4-DDD
9.706	0.001	25400	10.193	0.001	31978	0.000	0.000	127.7*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A017.d

ARI ID: VR58I

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.214	0.026	147025	8.557	-0.046	370372	0.000	0.003	165.0*	2,4-DDE
8.728	-0.009	439382	9.288	-0.002	53792	0.001	0.001	65.2*	2,4-DDD
9.248	-0.013	85551	9.756	0.002	144805	0.000	0.001#	----	2,4-DDT
8.620	0.000	728592	8.993	0.002	186803	0.001	0.001	4.1	4,4-DDE
9.193	-0.049	653245	9.756	0.002	144805	0.001	0.001#	22.7	4,4-DDD
9.704	0.000	181474	10.195	0.003	75498	0.000	0.000	43.8*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20121102.B/ddt-1.b/1124A018.d

ARI ID: VR58J

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
8.214	0.026	82966	8.557	-0.047	111936	0.000	0.001	139.6*	2,4-DDE
8.730	-0.008	160703	0.000	-9.290	0	0.000	0.000	----	2,4-DDD
9.248	-0.013	72780	9.756	0.002	37280	0.000	0.000#	----	2,4-DDT
8.619	-0.001	217806	8.990	-0.001	49281	0.000	0.000	7.7	4,4-DDE
9.192	-0.050	167493	9.756	0.002	37280	0.000	0.000#	21.7	4,4-DDD
9.707	0.002	56239	10.195	0.003	23796	0.000	0.000	46.1*	4,4-DDT

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: VR82



SPIKING LOG

Analyst: NR
Date: 11-16-12

Sample ID VR58ASPK, MBISPK

Final Volume 50.0
Final Volume (Hg): 50.0

Prepcode:	ICP Routine	ICP No	GFA
Spike Solution:	<u>SWC</u>		
Standard No.:	<u>2977-9</u>		
Vol Added (mL):	<u>1.0</u>		
Ag	50 ✓		2.0
Al	200	200	
As	200 ✓		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50 ✓		2.0
Co	50	50	
Cr	50 ✓	50	
Cu	50 ✓	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50 ✓	50	
Pb	200 ✓		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50 ✓	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
<u>SWN</u>		
<u>2977-2</u>		
<u>1.0</u>		
Ag	25	
Al		500
As	25	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25	
Sb		25
Se	80 ✓	
Tl	25	
U	25	
V	25	
Zn	80	

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	<u>SMM</u>	CVA	1.0	<u>0.05</u>	<u>2908-</u>
Hg MBSPK	<u>SMM</u>	CVA	1.0	<u>0.10</u>	<u>2908-</u>
Sb	<u>SWC</u>	ICP	2000	<u>0.10</u>	<u>2941-</u>
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.



Digestion Log

Analyst: NB Date: 11-16-12 Time: 1628
 Matrix: SOIL Block ID: ^{SWN:}#4 / ^{SWC:}#1 Block Temp: ^{SWN:}95°C / ^{SWC:}91°C Thermometer: ^{SWN:}MP44 / ^{SWC:}MP40

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SWN</u>		Prep Code: <u>SWC</u>		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
VR58 A	2	-	1.068	50.0	1.071	50.0	}
" ADWP	2	-	1.072		1.070		
" ASPK	2	-	1.063		1.073		
" B	2	-	1.071		1.032		
" C	2	-	1.077		1.043		
" D	2	-	1.048		1.019		
" E	2	-	1.055		1.007		
" F	2	-	1.013		1.043		
" G	2	-	1.048		1.080		
" H	2	-	1.077		1.068		
" I	2	-	1.015		1.034		
" J	2	-	1.081		1.073	-Batch	
" MBI	-	-	-		-		
" MBSPK	-	-	-		-		
VR82 A	2	-	1.032		1.044		
" B	2	-	1.063		1.021		
" C	2	-	1.076		1.035		
" D	2	-	1.078		1.082		
" E	2	-	1.017		1.048		
" F	2	-	1.096		1.038		
" G	2	-	1.059		1.042		
" H	2	-	1.028	↓	1.044	↓	
" I	2	-	1.030	50.0	1.013	50.0	
NB 11-16-12							

Chemical/Reagent ID:

HNO₃: MP2392/I7833 HCl: I7676 H₂O₂: I7845 Tube Lot #: 1207143



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM

Matrix: SOIL

Analyst: NB

Date: 11-16-12

Bath Temp: 91°C

Start Time: 1755

End Time: 1825

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CLP	Comments	
VR58 A	2	-	0.284	50.0	11-24 1	YES	}	
" ADUP	2	-	0.282		1			
" ASPK	2	-	0.288		1			
" B	2	-	0.271		1			
" C	2	-	0.217		1			
" D	2	-	0.221		1			
" E	2	-	0.231		1			
" F	2	-	0.206		1			
" G	2	-	0.260		1			
" H	2	-	0.238		1			
" I	2	-	0.247		1			-Batch
" J	2	-	0.219		1			
" MBI	-	-	-		1			
" MBISPK	-	-	-		1			
VR82 A	2	-	0.262		11-27 1			
" B	2	-	0.215		1			
" C	2	-	0.271		1			
" D	2	-	0.225		1			
" E	2	-	0.268		1			
" F	2	-	0.218		1			
" G	2	-	0.236		1			
" H	2	-	0.219		1			
" I	2	-	0.217	50.0	1			
			NB	11-16-12				

Chemical/Reagent ID:

HNO₃: I7833
5% K₂S₂O₈: MP2375

H₂SO₄: I7677
5% KMnO₄: MP2376

HCl: -
Digest Tube Lot: 1205258

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: VR82



IEC Date: 11-12-12

Analysis Date: 11-27-12

Analyst: BA

LR Date: 7-30-12

Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD0			2994-8
		2			-11
		3			-12
		4			-13
		↓ 5			↓ -14
		ICV			Si ↑ (NR) 2988-6
		ICB			
		CRI			
		ICSA			
		IC SAB			
		CCV1			Si, Ti ↑ (NR)
		CCB1 BA 11/28/12			
		VR58 MBI	SWC	2	
		B			
		C			
		D			
		E			
✓		ADUP			✓ Scr/analytes sl. noisy ↓ - Review
		A			
		ASPK			✓ Sbl (CAF)
		APOST			✓ 0.08 mL ICP Spik. 2977-9 0.016 mL Sp 1499 2938-7 Sbl OK
		↓ MBISPK	↓	↓	✓
		CCV2			Si ↑ (NR)
		CCB2			
		VR58 F	SWC	2	



IEC Date:

Analysis Date: 11-27-12

Analyst: BA

LR Date:

Page: 2 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		VR58 G	SWC	2	
		↓ H	↓	↓	
		↓ I	↓	↓	
		↓ J	↓	↓	
		VR82 A			
		↓ B	↓	↓	
		↓ C	↓	↓	
		↓ D	↓	↓	
		↓ E	↓	↓	
		CCV3			Si ↑ (NR)
		CCB3			
✓		VR82 F	SWC	2	Failing CCV
✓		↓ G	↓	↓	↓
✓		↓ H	↓	↓	↓
✓		↓ I	↓	↓	↓
		CCV4			(Fe, Na, Sb) Si, Ti ↑
		CCV5			(Fe, Sb) Si, Ti ↑
		CCB4			
		STD4			
		↓ 5			
		CCV6			(Sb) ↑
		CCB5			
✓		VS22 MBI	SWC	2	Failing CCV
✓		↓ B	↓	5	↓



IEC Date:

Analysis Date: 11-27-12

Analyst: BA

LR Date:

Page: 3 of 5

All corrections made by analyst unless otherwise noted. BA 11-28-12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	VS22 C	SWC	5	Failing CCV
	✓	D		↓	
	✓	ZZZZZZ		25	
	✓	AL			
	✓	A		5	
	✓	ADUP		↓	
	✓	ASPK		↓	
	✓	ZZZZZZ		↓	
	✓	APOST		↓	
	✓	↓ MBISPK	↓	2	↓
		CCV7			Multiple failures - Noisy (Air bubble?)
		CCV8			↓
		CCV9			
		CCB6			Cu > -RL
		VS22 E	SWC	5	
		F			
		G			
		H			
		I			
		J			
		K			
		↓ L	↓	↓	
		CCV10			
		CCB7			Cu > -RL
		CBI			Cu < 50% (NR)
		ICSA			



IEC Date:

Analysis Date: 11-27-12

Analyst: BA

LR Date:

Page: 4 of 5

All corrections made by analyst unless otherwise noted. BA 11/29/12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		ICSA B			
		CCV 11			
		CCB 8			Cu > -RL
		VS22 MBI	SWC	2	
		B		5	
		C		↓	
		D		↓	
		A-L		25	✓
		A		5	
		ADUP		↓	✓
		ASPK		↓	✓
		APOST		↓	0.08 mL ICP Spike 2577-9
		MBISPK		2	Mg ΔK (112%)
		CCV 12			
		CCB 9			Cu > -RL
		CR I			Cu < 50% (NR)
		ICSA			
		ICSA B			
		CCV 13			
		CCB 10			Cu > -RL
		VR80 C	TWC		End VS22
✓		VR82 F	SWC	2	
✓		↓ G	↓	↓	
✓		↓ H	↓	↓	



IEC Date: _____
LR Date: _____

Analysis Date: 11-27-12

Analyst: BA
Page: 5 of 5

All corrections made by analyst unless otherwise noted. BA 11/29/12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	VR82 I	SWC	2	
		CCV14			
		CCB11			Cu > -RL
		Rinse/DI			

End Pkg

BA
11/28/12

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 11-27-12

ICP - 2	Analyst BA 11/28/12	Peer	Comment
Logbook:			
Analyst, Date, Method info	✓		
Sample ID's	✓		
Standard/QC solution ID's recorded	✓		
Prep codes	✓		
Dilution factors	✓		
Crossouts/Corrections/Deletions	✓		
Calibration:			
Blank & Standard intensities	✓		
Standard deviations	✓		
Curve fit	✓		
Calibration verification:			
ICV/CCV	✓		See log
ICB/CCB	✓		↓
Samples:			
RSD's & SD's	✓		See log
Internal Standards	✓		↓
Carry-over	✓		
Method QC:			
CRI/CRA	✓		See log
ICSA/ICSAB	✓		
Post Spikes/Serial Dilutions	✓		See log
Analytic Spikes	✓		
Matrix QC:			
SRM/LCS	✓		
Matrix Spikes	✓		See log
Matrix Duplicates	✓		↓
Method Blanks	✓		
Data Distribution:			
Requested elements/isotope identified	✓		
Correct samples identified for distribution	✓		
Raw data match distributed data	✓		
Data filename correct	✓		
Necessary Analysts Notes and CAF's:			
	✓		CAF - VR58, VS22

=====
Analysis Begun

Start Time: 11/27/2012 10:20:59 AM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/27/2012 8:08:35 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif
 Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
 Sequence No.: 1

Sample ID: Calib Blank 1

Autosampler Location: 1

Date Collected: 11/27/2012 10:21:00 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	2210891.9	17020.28	0.77%	100.0	%
ScR 361.383	274661.2	3538.17	1.29%	100.0	%
Ag 328.068†	-132.5	30.87	23.29%	[0.00]	mg/L
Al 308.215†	191.6	6.20	3.24%	[0.00]	mg/L
As 188.979†	-14.7	0.79	5.36%	[0.00]	mg/L
B 249.677†	27.5	3.60	13.08%	[0.00]	mg/L
Ba 233.527†	27.7	1.73	6.24%	[0.00]	mg/L
Be 313.042†	753.3	15.10	2.00%	[0.00]	mg/L
Ca 317.933†	161.1	11.40	7.08%	[0.00]	mg/L
Cd 228.802†	261.7	1.17	0.45%	[0.00]	mg/L
Co 228.616†	-95.7	6.35	6.64%	[0.00]	mg/L
Cr 267.716†	-131.6	7.01	5.33%	[0.00]	mg/L
Cu 324.752†	2619.1	23.55	0.90%	[0.00]	mg/L
Fe 273.955†	23.7	1.15	4.83%	[0.00]	mg/L
K 766.490†	517.8	21.01	4.06%	[0.00]	mg/L
Mg 279.077†	80.2	5.41	6.75%	[0.00]	mg/L
Mn 257.610†	183.1	5.46	2.98%	[0.00]	mg/L
Mo 202.031†	77.1	2.73	3.54%	[0.00]	mg/L
Na 589.592†	-498.1	32.89	6.60%	[0.00]	mg/L
Na 330.237†	-221.8	2.87	1.30%	[0.00]	mg/L
Ni 231.604†	-19.0	1.35	7.10%	[0.00]	mg/L
Pb 220.353†	57.4	1.77	3.09%	[0.00]	mg/L
Sb 206.836†	82.0	1.13	1.38%	[0.00]	mg/L
Se 196.026†	-45.0	2.79	6.21%	[0.00]	mg/L
Si 288.158†	47.8	7.07	14.81%	[0.00]	mg/L
Sn 189.927†	-6.2	2.03	32.94%	[0.00]	mg/L
Sr 421.552†	351.6	38.50	10.95%	[0.00]	mg/L
Ti 334.903†	-52.7	14.43	27.37%	[0.00]	mg/L
Tl 190.801†	-51.2	4.63	9.04%	[0.00]	mg/L
V 292.402†	132.7	22.87	17.24%	[0.00]	mg/L
Zn 206.200†	14.4	1.60	11.11%	[0.00]	mg/L

=====
 Sequence No.: 2

Sample ID: STD2

Autosampler Location: 2

Date Collected: 11/27/2012 10:25:17 AM

Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: STD2

Mean Corrected

Calib

Ti 334.903† 165326.6 1707.31 1.03% [10] mg/L

Sequence No.: 5
Sample ID: STD5Autosampler Location: 5
Date Collected: 11/27/2012 10:31:32 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2148512.6	23655.97	1.10%	97.18	%
ScR 361.383	280553.0	1497.02	0.53%	102.1	%
Al 308.215†	40696.6	258.90	0.64%	[30]	mg/L
Ca 317.933†	348837.8	4189.11	1.20%	[30]	mg/L
Fe 273.955†	117603.5	1565.01	1.33%	[100]	mg/L
K 766.490†	169616.5	1349.94	0.80%	[100]	mg/L
Mg 279.077†	34054.7	274.43	0.81%	[30]	mg/L
Na 330.237†	2437.9	21.76	0.89%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	148900	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1357	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1558	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	6544	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3955	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	522800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	11630	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	25210	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	33490	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	5559	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	220000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1176	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1696	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1135	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	32760	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	17310	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	10190	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	24.38	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	3708	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7107	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2834	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1288	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1657	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3287	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	729700	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	16530	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2137	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	105900	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3426	0.00000	1.000000	

=====
Analysis Begun

Start Time: 11/27/2012 10:34:36 AM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/27/2012 8:08:35 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: CV

Autosampler Location: 7

Date Collected: 11/27/2012 10:34:37 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2251366.5	101.8 %	0.66			0.65%
ScR 361.383	278076.9	101.2 %	0.91			0.90%
Ag 328.068†	156155.1	1.049 mg/L	0.0109	1.049 mg/L	0.0109	1.04%
Al 308.215†	2814.4	2.040 mg/L	0.0200	2.040 mg/L	0.0200	0.98%
As 188.979†	3151.9	2.050 mg/L	0.0127	2.050 mg/L	0.0127	0.62%
B 249.677†	6328.8	0.9662 mg/L	0.00589	0.9662 mg/L	0.00589	0.61%
Ba 233.527†	3967.6	1.003 mg/L	0.0068	1.003 mg/L	0.0068	0.67%
Be 313.042†	503953.3	0.9637 mg/L	0.00344	0.9637 mg/L	0.00344	0.36%
Ca 317.933†	23242.7	1.999 mg/L	0.0109	1.999 mg/L	0.0109	0.54%
Cd 228.802†	26095.2	1.022 mg/L	0.0095	1.022 mg/L	0.0095	0.93%
Co 228.616†	33602.5	1.001 mg/L	0.0104	1.001 mg/L	0.0104	1.04%
Cr 267.716†	5562.7	1.000 mg/L	0.0080	1.000 mg/L	0.0080	0.80%
Cu 324.752†	226700.7	1.030 mg/L	0.0111	1.030 mg/L	0.0111	1.07%
Fe 273.955†	2478.5	2.100 mg/L	0.0131	2.100 mg/L	0.0131	0.63%
K 766.490†	34298.2	20.22 mg/L	0.087	20.22 mg/L	0.087	0.43%
Mg 279.077†	2344.7	2.073 mg/L	0.0050	2.073 mg/L	0.0050	0.24%
Mn 257.610†	31586.7	0.9644 mg/L	0.00725	0.9644 mg/L	0.00725	0.75%
Mo 202.031†	17749.5	1.025 mg/L	0.0117	1.025 mg/L	0.0117	1.14%
Na 589.592†	498399.5	48.93 mg/L	0.096	48.93 mg/L	0.096	0.20%
Na 330.237†	1299.6	53.22 mg/L	0.224	53.22 mg/L	0.224	0.42%
Ni 231.604†	3593.7	0.9695 mg/L	0.00613	0.9695 mg/L	0.00613	0.63%
Pb 220.353†	14049.7	1.978 mg/L	0.0184	1.978 mg/L	0.0184	0.93%
Sb 206.836†	6182.9	2.181 mg/L	0.0127	2.181 mg/L	0.0127	0.58%
Se 196.026†	2576.7	2.000 mg/L	0.0133	2.000 mg/L	0.0133	0.67%
Si 288.158†	3671.0	2.214 mg/L	0.0196	2.214 mg/L	0.0196	0.88%
Sn 189.927†	3408.6	1.038 mg/L	0.0072	1.038 mg/L	0.0072	0.70%
Sr 421.552†	700900.0	0.9606 mg/L	0.00232	0.9606 mg/L	0.00232	0.24%
Ti 334.903†	17890.7	1.081 mg/L	0.0033	1.081 mg/L	0.0033	0.31%
Tl 190.801†	4325.3	2.015 mg/L	0.0139	2.015 mg/L	0.0139	0.69%
V 292.402†	107862.5	1.023 mg/L	0.0104	1.023 mg/L	0.0104	1.01%
Zn 206.200†	3437.2	1.003 mg/L	0.0052	1.003 mg/L	0.0052	0.52%

Sequence No.: 2

Sample ID: ICB

Autosampler Location: 1

Date Collected: 11/27/2012 10:38:39 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2260087.7	102.2	%	0.29			0.29%
ScR 361.383	278429.3	101.4	%	0.97			0.95%
Ag 328.068†	-23.6	-0.00016	mg/L	0.000045	-0.00016 mg/L	0.000045	28.21%
Al 308.215†	-2.8	-0.00210	mg/L	0.004889	-0.00210 mg/L	0.004889	233.25%
As 188.979†	0.1	0.00005	mg/L	0.001034	0.00005 mg/L	0.001034	>999.9%
B 249.677†	18.0	0.00276	mg/L	0.001526	0.00276 mg/L	0.001526	55.34%
Ba 233.527†	-1.0	-0.00025	mg/L	0.000341	-0.00025 mg/L	0.000341	138.72%
Be 313.042†	29.3	0.00006	mg/L	0.000003	0.00006 mg/L	0.000003	6.16%
Ca 317.933†	5.9	0.00050	mg/L	0.001287	0.00050 mg/L	0.001287	255.20%
Cd 228.802†	0.3	0.00001	mg/L	0.000287	0.00001 mg/L	0.000287	>999.9%
Co 228.616†	-1.5	-0.00004	mg/L	0.000078	-0.00004 mg/L	0.000078	175.38%
Cr 267.716†	5.2	0.00093	mg/L	0.001380	0.00093 mg/L	0.001380	148.74%
Cu 324.752†	-23.9	-0.00011	mg/L	0.000030	-0.00011 mg/L	0.000030	27.91%
Fe 273.955†	0.9	0.00077	mg/L	0.003219	0.00077 mg/L	0.003219	419.45%
K 766.490†	-32.9	-0.01938	mg/L	0.007108	-0.01938 mg/L	0.007108	36.67%
Mg 279.077†	-1.2	-0.00109	mg/L	0.002102	-0.00109 mg/L	0.002102	192.69%
Mn 257.610†	7.1	0.00022	mg/L	0.000113	0.00022 mg/L	0.000113	52.14%
Mo 202.031†	28.8	0.00166	mg/L	0.000119	0.00166 mg/L	0.000119	7.13%
Na 589.592†	80.6	0.00791	mg/L	0.003963	0.00791 mg/L	0.003963	50.10%
Na 330.237†	0.3	0.01009	mg/L	0.359633	0.01009 mg/L	0.359633	>999.9%
Ni 231.604†	2.2	0.00059	mg/L	0.000778	0.00059 mg/L	0.000778	132.77%
Pb 220.353†	4.7	0.00067	mg/L	0.000916	0.00067 mg/L	0.000916	136.92%
Sb 206.836†	5.7	0.00201	mg/L	0.000506	0.00201 mg/L	0.000506	25.25%
Se 196.026†	-6.2	-0.00481	mg/L	0.002926	-0.00481 mg/L	0.002926	60.83%
Si 288.158†	0.1	0.00006	mg/L	0.001105	0.00006 mg/L	0.001105	>999.9%
Sn 189.927†	7.4	0.00226	mg/L	0.000268	0.00226 mg/L	0.000268	11.88%
Sr 421.552†	79.8	0.00011	mg/L	0.000028	0.00011 mg/L	0.000028	25.77%
Ti 334.903†	4.2	0.00025	mg/L	0.000642	0.00025 mg/L	0.000642	252.12%
Tl 190.801†	8.2	0.00382	mg/L	0.001099	0.00382 mg/L	0.001099	28.77%
V 292.402†	11.2	0.00011	mg/L	0.000075	0.00011 mg/L	0.000075	68.56%
Zn 206.200†	2.9	0.00085	mg/L	0.000538	0.00085 mg/L	0.000538	63.15%

Sequence No.: 3

Sample ID: CRI

Autosampler Location: 301

Date Collected: 11/27/2012 10:42:54 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2289037.1	103.5 %		0.50			0.48%
ScR 361.383	280700.7	102.2 %		0.14			0.14%
Ag 328.068†	438.4	0.00295 mg/L		0.000082	0.00295 mg/L	0.000082	2.78%
Al 308.215†	68.7	0.05049 mg/L		0.004149	0.05049 mg/L	0.004149	8.22%
As 188.979†	76.8	0.04942 mg/L		0.001997	0.04942 mg/L	0.001997	4.04%
B 249.677†	142.7	0.02180 mg/L		0.000396	0.02180 mg/L	0.000396	1.81%
Ba 233.527†	13.2	0.00333 mg/L		0.000749	0.00333 mg/L	0.000749	22.51%
Be 313.042†	479.2	0.00092 mg/L		0.000055	0.00092 mg/L	0.000055	6.06%
Ca 317.933†	577.4	0.04966 mg/L		0.001477	0.04966 mg/L	0.001477	2.97%
Cd 228.802†	56.5	0.00192 mg/L		0.000036	0.00192 mg/L	0.000036	1.89%
Co 228.616†	110.1	0.00328 mg/L		0.000114	0.00328 mg/L	0.000114	3.48%
Cr 267.716†	29.3	0.00526 mg/L		0.001262	0.00526 mg/L	0.001262	23.97%
Cu 324.752†	358.4	0.00163 mg/L		0.000130	0.00163 mg/L	0.000130	8.00%
Fe 273.955†	61.1	0.05190 mg/L		0.003619	0.05190 mg/L	0.003619	6.97%
K 766.490†	848.3	0.5001 mg/L		0.00475	0.5001 mg/L	0.00475	0.95%
Mg 279.077†	58.2	0.05127 mg/L		0.004770	0.05127 mg/L	0.004770	9.30%
Mn 257.610†	39.5	0.00121 mg/L		0.000059	0.00121 mg/L	0.000059	4.89%
Mo 202.031†	90.9	0.00525 mg/L		0.000413	0.00525 mg/L	0.000413	7.86%
Na 589.592†	4742.8	0.4656 mg/L		0.00136	0.4656 mg/L	0.00136	0.29%
Na 330.237†	16.9	0.6928 mg/L		0.28545	0.6928 mg/L	0.28545	41.20%
Ni 231.604†	41.2	0.01113 mg/L		0.001367	0.01113 mg/L	0.001367	12.28%
Pb 220.353†	146.6	0.02065 mg/L		0.000501	0.02065 mg/L	0.000501	2.43%
Sb 206.836†	149.0	0.05260 mg/L		0.003256	0.05260 mg/L	0.003256	6.19%
Se 196.026†	58.4	0.04534 mg/L		0.000766	0.04534 mg/L	0.000766	1.69%
Si 288.158†	117.2	0.07070 mg/L		0.002833	0.07070 mg/L	0.002833	4.01%
Sn 189.927†	31.7	0.00967 mg/L		0.001261	0.00967 mg/L	0.001261	13.04%
Sr 421.552†	732.8	0.00100 mg/L		0.000041	0.00100 mg/L	0.000041	4.10%
Ti 334.903†	64.9	0.00392 mg/L		0.000668	0.00392 mg/L	0.000668	17.05%
Tl 190.801†	106.5	0.04983 mg/L		0.000736	0.04983 mg/L	0.000736	1.48%
V 292.402†	317.3	0.00302 mg/L		0.000053	0.00302 mg/L	0.000053	1.77%
Zn 206.200†	33.6	0.00982 mg/L		0.000977	0.00982 mg/L	0.000977	9.95%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 302
Date Collected: 11/27/2012 10:47:10 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 218.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2214904.4	100.2 %	%	0.19			0.18%
ScR 361.383	268393.2	97.72 %	%	0.520			0.53%
Ag 328.068†	-176.6	-0.00118 mg/L	mg/L	0.000448	-0.00118 mg/L	0.000448	37.85%
Al 308.215†	283234.5	208.8 mg/L	mg/L	0.63	208.8 mg/L	0.63	0.30%
As 188.979†	32.8	0.01508 mg/L	mg/L	0.001863	0.01508 mg/L	0.001863	12.35%
B 249.677†	-30.9	-0.00472 mg/L	mg/L	0.001002	-0.00472 mg/L	0.001002	21.21%
Ba 233.527†	118.5	-0.00386 mg/L	mg/L	0.000588	-0.00386 mg/L	0.000588	15.25%
Be 313.042†	77.1	0.00015 mg/L	mg/L	0.000025	0.00015 mg/L	0.000025	17.05%
Ca 317.933†	1222697.5	105.2 mg/L	mg/L	0.92	105.2 mg/L	0.92	0.87%
Cd 228.802†	58.2	0.00020 mg/L	mg/L	0.000084	0.00020 mg/L	0.000084	41.58%
Co 228.616†	61.1	-0.00088 mg/L	mg/L	0.000025	-0.00088 mg/L	0.000025	2.81%
Cr 267.716†	8.6	-0.00073 mg/L	mg/L	0.000487	-0.00073 mg/L	0.000487	67.01%
Cu 324.752†	-1843.8	-0.00017 mg/L	mg/L	0.000124	-0.00017 mg/L	0.000124	73.64%
Fe 273.955†	242977.5	206.6 mg/L	mg/L	1.82	206.6 mg/L	1.82	0.88%
K 766.490†	32.3	0.01907 mg/L	mg/L	0.031428	0.01907 mg/L	0.031428	164.79%
Mg 279.077†	123891.1	109.0 mg/L	mg/L	0.72	109.0 mg/L	0.72	0.66%
Mn 257.610†	48.7	0.00146 mg/L	mg/L	0.000289	0.00146 mg/L	0.000289	19.82%
Mo 202.031†	74.9	0.00319 mg/L	mg/L	0.000617	0.00319 mg/L	0.000617	19.35%
Na 589.592†	122.4	0.01202 mg/L	mg/L	0.003519	0.01202 mg/L	0.003519	29.28%
Na 330.237†	-10.7	-0.4405 mg/L	mg/L	0.18901	-0.4405 mg/L	0.18901	42.91%
Ni 231.604†	0.9	0.00026 mg/L	mg/L	0.001575	0.00026 mg/L	0.001575	611.57%
Pb 220.353†	-299.6	-0.00069 mg/L	mg/L	0.000569	-0.00069 mg/L	0.000569	82.42%
Sb 206.836†	37.8	0.01315 mg/L	mg/L	0.001968	0.01315 mg/L	0.001968	14.97%
Se 196.026†	5.9	0.00456 mg/L	mg/L	0.004295	0.00456 mg/L	0.004295	94.17%
Si 288.158†	-22.3	-0.00024 mg/L	mg/L	0.008616	-0.00024 mg/L	0.008616	>999.9%
Sn 189.927†	-71.0	-0.00859 mg/L	mg/L	0.000628	-0.00859 mg/L	0.000628	7.31%
Sr 421.552†	2985.3	0.00409 mg/L	mg/L	0.000036	0.00409 mg/L	0.000036	0.89%
Ti 334.903†	100.8	0.00107 mg/L	mg/L	0.000363	0.00107 mg/L	0.000363	33.84%
Tl 190.801†	-40.1	0.00328 mg/L	mg/L	0.005340	0.00328 mg/L	0.005340	162.88%
V 292.402†	1165.7	0.00379 mg/L	mg/L	0.000377	0.00379 mg/L	0.000377	9.94%
Zn 206.200†	10.2	0.00299 mg/L	mg/L	0.000509	0.00299 mg/L	0.000509	17.03%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 303
Date Collected: 11/27/2012 10:51:26 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2269187.4	102.6	%	0.27			
ScR 361.383	277546.2	101.1	%	0.36			0.26%
Ag 328.068†	150158.8	1.009	mg/L	0.0034	1.009 mg/L	0.0034	0.35%
Al 308.215†	273761.0	201.8	mg/L	0.47	201.8 mg/L	0.47	0.34%
As 188.979†	1589.0	1.014	mg/L	0.0029	1.014 mg/L	0.0029	0.23%
B 249.677†	-5.7	-0.00286	mg/L	0.000300	-0.00286 mg/L	0.000300	0.29%
Ba 233.527†	4102.8	1.004	mg/L	0.0032	1.004 mg/L	0.0032	10.48%
Be 313.042†	508207.6	0.9719	mg/L	0.00434	0.9719 mg/L	0.00434	0.32%
Ca 317.933†	1203152.6	103.5	mg/L	0.19	103.5 mg/L	0.19	0.45%
Cd 228.802†	25409.9	1.000	mg/L	0.0042	1.000 mg/L	0.0042	0.19%
Co 228.616†	32523.8	0.9682	mg/L	0.00300	0.9682 mg/L	0.00300	0.42%
Cr 267.716†	5619.5	1.009	mg/L	0.0042	1.009 mg/L	0.0042	0.31%
Cu 324.752†	218552.4	1.002	mg/L	0.0021	1.002 mg/L	0.0021	0.41%
Fe 273.955†	238691.7	203.0	mg/L	0.47	203.0 mg/L	0.47	0.21%
K 766.490†	-81.4	-0.04800	mg/L	0.029065	-0.04800 mg/L	0.029065	0.23%
Mg 279.077†	116315.8	102.4	mg/L	0.17	102.4 mg/L	0.17	60.56%
Mn 257.610†	31435.4	0.9596	mg/L	0.00375	0.9596 mg/L	0.00375	0.17%
Mo 202.031†	69.0	0.00281	mg/L	0.000217	0.00281 mg/L	0.000217	0.39%
Na 589.592†	235.6	0.02314	mg/L	0.000818	0.02314 mg/L	0.000818	7.70%
Na 330.237†	8.7	0.04351	mg/L	0.064991	0.04351 mg/L	0.064991	3.53%
Ni 231.604†	3532.5	0.9528	mg/L	0.00296	0.9528 mg/L	0.00296	149.36%
Pb 220.353†	6577.3	0.9660	mg/L	0.00204	0.9660 mg/L	0.00204	0.31%
Sb 206.836†	2948.4	1.029	mg/L	0.0028	1.029 mg/L	0.0028	0.21%
Se 196.026†	1276.5	0.9903	mg/L	0.00398	0.9903 mg/L	0.00398	0.28%
Si 288.158†	-29.5	-0.00180	mg/L	0.000598	-0.00180 mg/L	0.000598	0.40%
Sn 189.927†	-70.0	-0.00800	mg/L	0.000557	-0.00800 mg/L	0.000557	33.24%
Sr 421.552†	2868.5	0.00393	mg/L	0.000032	0.00393 mg/L	0.000032	6.96%
Ti 334.903†	96.9	0.00072	mg/L	0.000352	0.00072 mg/L	0.000352	0.81%
Tl 190.801†	1976.5	0.9373	mg/L	0.00340	0.9373 mg/L	0.00340	48.87%
V 292.402†	102131.1	0.9616	mg/L	0.00212	0.9616 mg/L	0.00212	0.36%
Zn 206.200†	3269.1	0.9540	mg/L	0.00501	0.9540 mg/L	0.00501	0.22%
							0.53%

Sequence No.: 6

Sample ID: CV

Autosampler Location: 7

Date Collected: 11/27/2012 10:56:17 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2299680.7	104.0	%	2.52			2.43%
ScR 361.383	274908.6	100.1	%	1.61			1.61%
Ag 328.068†	154294.9	1.037	mg/L	0.0226	1.037 mg/L	0.0226	2.18%
Al 308.215†	2925.6	2.122	mg/L	0.0377	2.122 mg/L	0.0377	1.78%
As 188.979†	3132.4	2.039	mg/L	0.0594	2.039 mg/L	0.0594	2.91%
B 249.677†	6483.3	0.9898	mg/L	0.01467	0.9898 mg/L	0.01467	1.48%
Ba 233.527†	4110.6	1.039	mg/L	0.0176	1.039 mg/L	0.0176	1.70%
Be 313.042†	522277.0	0.9988	mg/L	0.01938	0.9988 mg/L	0.01938	1.94%
Ca 317.933†	24220.0	2.083	mg/L	0.0377	2.083 mg/L	0.0377	1.81%
Cd 228.802†	26005.5	1.019	mg/L	0.0241	1.019 mg/L	0.0241	2.37%
Co 228.616†	33573.2	1.000	mg/L	0.0228	1.000 mg/L	0.0228	2.28%
Cr 267.716†	5749.8	1.034	mg/L	0.0128	1.034 mg/L	0.0128	1.24%
Cu 324.752†	223344.3	1.015	mg/L	0.0229	1.015 mg/L	0.0229	2.26%
Fe 273.955†	2568.7	2.177	mg/L	0.0325	2.177 mg/L	0.0325	1.49%
K 766.490†	35314.0	20.82	mg/L	0.391	20.82 mg/L	0.391	1.88%
Mg 279.077†	2443.7	2.160	mg/L	0.0310	2.160 mg/L	0.0310	1.44%
Mn 257.610†	32650.2	0.9969	mg/L	0.01635	0.9969 mg/L	0.01635	1.64%
Mo 202.031†	17636.2	1.019	mg/L	0.0240	1.019 mg/L	0.0240	2.36%
Na 589.592†	510641.7	50.13	mg/L	0.895	50.13 mg/L	0.895	1.79%
Na 330.237†	1324.3	54.23	mg/L	0.722	54.23 mg/L	0.722	1.33%
Ni 231.604†	3725.2	1.005	mg/L	0.0141	1.005 mg/L	0.0141	1.40%
Pb 220.353†	14089.9	1.984	mg/L	0.0446	1.984 mg/L	0.0446	2.25%
Sb 206.836†	6120.5	2.159	mg/L	0.0594	2.159 mg/L	0.0594	2.75%
Se 196.026†	2556.7	1.984	mg/L	0.0581	1.984 mg/L	0.0581	2.93%
Si 288.158†	3778.6	2.279	mg/L	0.0308	2.279 mg/L	0.0308	1.35%
Sn 189.927†	3391.4	1.033	mg/L	0.0297	1.033 mg/L	0.0297	2.87%
Sr 421.552†	719851.4	0.9866	mg/L	0.01731	0.9866 mg/L	0.01731	1.75%
Ti 334.903†	18421.3	1.113	mg/L	0.0205	1.113 mg/L	0.0205	1.84%
Tl 190.801†	4292.0	2.000	mg/L	0.0530	2.000 mg/L	0.0530	2.65%
V 292.402†	106991.1	1.015	mg/L	0.0230	1.015 mg/L	0.0230	2.26%
Zn 206.200†	3580.3	1.045	mg/L	0.0170	1.045 mg/L	0.0170	1.63%

Sequence No.: 7

Autosampler Location: 1

Sample ID: CB

Date Collected: 11/27/2012 11:01:22 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2270615.9	102.7	%	1.51			1.47%
ScR 361.383	284073.7	103.4	%	1.38			1.33%
Ag 328.068†	-16.4	-0.00011	mg/L	0.000043	-0.00011 mg/L	0.000043	38.82%
Al 308.215†	-10.8	-0.00795	mg/L	0.007651	-0.00795 mg/L	0.007651	96.18%
As 188.979†	1.0	0.00065	mg/L	0.000646	0.00065 mg/L	0.000646	99.68%
B 249.677†	9.1	0.00139	mg/L	0.000498	0.00139 mg/L	0.000498	35.91%
Ba 233.527†	0.1	0.00002	mg/L	0.000425	0.00002 mg/L	0.000425	>999.9%
Be 313.042†	8.3	0.00002	mg/L	0.000038	0.00002 mg/L	0.000038	239.25%
Ca 317.933†	18.6	0.00160	mg/L	0.001037	0.00160 mg/L	0.001037	64.70%
Cd 228.802†	-1.6	-0.00007	mg/L	0.000171	-0.00007 mg/L	0.000171	257.94%
Co 228.616†	-0.3	-0.00001	mg/L	0.000083	-0.00001 mg/L	0.000083	>999.9%
Cr 267.716†	3.2	0.00058	mg/L	0.000250	0.00058 mg/L	0.000250	42.87%
Cu 324.752†	-80.7	-0.00037	mg/L	0.000220	-0.00037 mg/L	0.000220	60.08%
Fe 273.955†	-0.7	-0.00056	mg/L	0.002616	-0.00056 mg/L	0.002616	468.71%
K 766.490†	-40.0	-0.02358	mg/L	0.020779	-0.02358 mg/L	0.020779	88.14%
Mg 279.077†	-0.6	-0.00055	mg/L	0.010402	-0.00055 mg/L	0.010402	>999.9%
Mn 257.610†	-0.1	-0.00000	mg/L	0.000041	-0.00000 mg/L	0.000041	>999.9%
Mo 202.031†	18.2	0.00105	mg/L	0.000217	0.00105 mg/L	0.000217	20.66%
Na 589.592†	69.5	0.00682	mg/L	0.002485	0.00682 mg/L	0.002485	36.42%
Na 330.237†	-0.4	-0.01557	mg/L	0.568685	-0.01557 mg/L	0.568685	>999.9%
Ni 231.604†	0.5	0.00014	mg/L	0.000763	0.00014 mg/L	0.000763	536.13%
Pb 220.353†	4.6	0.00064	mg/L	0.000253	0.00064 mg/L	0.000253	39.37%
Sb 206.836†	5.3	0.00187	mg/L	0.002013	0.00187 mg/L	0.002013	107.60%
Se 196.026†	-5.2	-0.00400	mg/L	0.002013	-0.00400 mg/L	0.002013	50.33%
Si 288.158†	-0.1	-0.00007	mg/L	0.002735	-0.00007 mg/L	0.002735	>999.9%
Sn 189.927†	0.7	0.00020	mg/L	0.000488	0.00020 mg/L	0.000488	244.60%
Sr 421.552†	70.8	0.00010	mg/L	0.000041	0.00010 mg/L	0.000041	42.23%
Ti 334.903†	-8.0	-0.00049	mg/L	0.000596	-0.00049 mg/L	0.000596	122.37%
Tl 190.801†	5.6	0.00261	mg/L	0.000936	0.00261 mg/L	0.000936	35.86%
V 292.402†	10.3	0.00010	mg/L	0.000175	0.00010 mg/L	0.000175	173.67%
Zn 206.200†	-0.9	-0.00026	mg/L	0.000186	-0.00026 mg/L	0.000186	72.22%

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Analysis Begun

Start Time: 11/27/2012 11:08:14 AM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
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Sequence No.: 1

Autosampler Location: 304

Sample ID: VR58 MB1 SWC

Date Collected: 11/27/2012 11:08:15 AM

Dilution: 2.000000X

Data Type: Original

Nebulizer Parameters: VR58 MB1 SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VR58 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2364572.2	107.0	%	0.25				0.24%
ScR 361.383	291062.4	106.0	%	0.46				0.44%
Ag 328.068†	-13.1	-0.00009	mg/L	0.000425	-0.00018	mg/L	0.000850	483.10%
Al 308.215†	4.7	0.00346	mg/L	0.002560	0.00691	mg/L	0.005120	74.04%
As 188.979†	1.8	0.00118	mg/L	0.001372	0.00237	mg/L	0.002744	115.82%
B 249.677†	-1.1	-0.00017	mg/L	0.000605	-0.00034	mg/L	0.001210	356.54%
Ba 233.527†	-2.4	-0.00061	mg/L	0.000422	-0.00122	mg/L	0.000843	69.08%
Be 313.042†	-25.7	-0.00005	mg/L	0.000026	-0.00010	mg/L	0.000053	53.82%
Ca 317.933†	148.5	0.01277	mg/L	0.000822	0.02555	mg/L	0.001645	6.44%
Cd 228.802†	-2.5	-0.00011	mg/L	0.000177	-0.00021	mg/L	0.000354	166.52%
Co 228.616†	12.6	0.00038	mg/L	0.000062	0.00075	mg/L	0.000124	16.53%
Cr 267.716†	8.3	0.00149	mg/L	0.000626	0.00298	mg/L	0.001252	42.03%
Cu 324.752†	-152.1	-0.00069	mg/L	0.000050	-0.00138	mg/L	0.000100	7.23%
Fe 273.955†	13.1	0.01116	mg/L	0.000956	0.02231	mg/L	0.001912	8.57%
K 766.490†	-25.7	-0.01513	mg/L	0.004231	-0.03027	mg/L	0.008463	27.96%
Mg 279.077†	2.2	0.00193	mg/L	0.004171	0.00387	mg/L	0.008342	215.63%
Mn 257.610†	-1.0	-0.00003	mg/L	0.000101	-0.00006	mg/L	0.000202	320.30%
Mo 202.031†	-2.2	-0.00013	mg/L	0.000162	-0.00026	mg/L	0.000323	126.37%
Na 589.592†	-0.5	-0.00005	mg/L	0.004882	-0.00009	mg/L	0.009765	>999.9%
Na 330.237†	-3.4	-0.1388	mg/L	0.35783	-0.2777	mg/L	0.71567	257.75%
Ni 231.604†	6.0	0.00161	mg/L	0.001505	0.00321	mg/L	0.003010	93.66%
Pb 220.353†	0.9	0.00013	mg/L	0.000207	0.00026	mg/L	0.000413	158.16%
Sb 206.836†	-3.4	-0.00122	mg/L	0.001137	-0.00244	mg/L	0.002273	93.08%
Se 196.026†	-5.5	-0.00426	mg/L	0.001809	-0.00851	mg/L	0.003619	42.52%
Si 288.158†	4.1	0.00246	mg/L	0.004676	0.00492	mg/L	0.009351	189.99%
Sn 189.927†	-1.1	-0.00034	mg/L	0.001056	-0.00068	mg/L	0.002111	310.32%
Sr 421.552†	43.1	0.00006	mg/L	0.000041	0.00012	mg/L	0.000082	69.17%
Ti 334.903†	0.1	0.00001	mg/L	0.001690	0.00002	mg/L	0.003379	>999.9%
Tl 190.801†	8.6	0.00403	mg/L	0.001718	0.00805	mg/L	0.003436	42.67%
V 292.402†	-9.1	-0.00008	mg/L	0.000061	-0.00016	mg/L	0.000122	76.14%
Zn 206.200†	11.0	0.00321	mg/L	0.000473	0.00642	mg/L	0.000947	14.75%

Sequence No.: 2

Autosampler Location: 305

Sample ID: VR58 B SWC

Date Collected: 11/27/2012 11:12:31 AM

Dilution: 2.000000X

Data Type: Original

Nebulizer Parameters: VR58 B SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR58 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2371794.2	107.3	%	1.59				1.48%
ScR 361.383	292162.9	106.4	%	0.17				0.16%
Ag 328.068†	-33.2	-0.00020	mg/L	0.000348	-0.00039	mg/L	0.000697	177.82%
Al 308.215†	38501.1	28.38	mg/L	0.232	56.75	mg/L	0.463	0.82%
As 188.979†	-41.0	0.02805	mg/L	0.001322	0.05610	mg/L	0.002644	9.46%
B 249.677†	69.6	0.01059	mg/L	0.001002	0.02118	mg/L	0.002004	4.71%
Ba 233.527†	1087.0	0.2653	mg/L	0.00189	0.5307	mg/L	0.00377	9.46%
Be 313.042†	261.0	0.00046	mg/L	0.000016	0.00091	mg/L	0.000032	0.71%
Ca 317.933†	163912.2	14.10	mg/L	0.142	28.19	mg/L	0.284	3.52%
Cd 228.802†	44.8	0.00147	mg/L	0.000098	0.00294	mg/L	0.000195	1.01%
Co 228.616†	792.8	0.01914	mg/L	0.000319	0.03829	mg/L	0.000638	6.65%
Cr 267.716†	473.7	0.08632	mg/L	0.000353	0.1726	mg/L	0.00071	1.67%
Cu 324.752†	35045.3	0.1614	mg/L	0.00345	0.3228	mg/L	0.00689	0.41%
Fe 273.955†	68343.6	58.11	mg/L	0.498	116.2	mg/L	1.00	2.14%
K 766.490†	2703.6	1.594	mg/L	0.0141	3.188	mg/L	0.0282	0.86%
Mg 279.077†	10661.1	9.361	mg/L	0.0023	18.72	mg/L	0.005	0.89%
Mn 257.610†	65923.7	2.012	mg/L	0.0151	4.025	mg/L	0.0303	0.02%
Mo 202.031†	37.9	0.00203	mg/L	0.000192	0.00406	mg/L	0.000385	0.75%
Na 589.592†	7262.5	0.7130	mg/L	0.00281	1.426	mg/L	0.0056	9.47%
Na 330.237†	21.2	1.104	mg/L	0.0892	2.209	mg/L	0.1784	0.39%
Ni 231.604†	289.4	0.07804	mg/L	0.001013	0.1561	mg/L	0.00203	8.08%
Pb 220.353†	556.1	0.08258	mg/L	0.002012	0.1652	mg/L	0.00402	1.30%
Sb 206.836†	7.4	0.00256	mg/L	0.000887	0.00513	mg/L	0.001775	2.44%
Se 196.026†	-4.0	-0.00316	mg/L	0.001921	-0.00632	mg/L	0.003841	34.63%
Si 288.158†	6866.3	4.145	mg/L	0.0035	8.289	mg/L	0.0070	60.80%
Sn 189.927†	-8.8	-0.00064	mg/L	0.001249	-0.00128	mg/L	0.002498	0.08%
Sr 421.552†	60774.8	0.08329	mg/L	0.000553	0.1666	mg/L	0.00111	195.93%
Ti 334.903†	31959.5	1.932	mg/L	0.0159	3.865	mg/L	0.0318	0.66%
Tl 190.801†	-1.4	0.00507	mg/L	0.001605	0.01014	mg/L	0.003211	0.82%
V 292.402†	9904.3	0.09106	mg/L	0.002079	0.1821	mg/L	0.00416	31.65%
Zn 206.200†	2140.6	0.6247	mg/L	0.00276	1.249	mg/L	0.0055	2.28%
							0.0055	0.44%

Sequence No.: 3
 Sample ID: VR58 C SWC

Autosampler Location: 306
 Date Collected: 11/27/2012 11:16:30 AM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 C SWC

Analyte Back Pressure Flow
 All 218.0 kPa 0.75 L/min

Mean Data: VR58 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2336500.1	105.7 %		1.23			
ScR 361.383	290898.9	105.9 %		1.38			1.17%
Ag 328.068†	-47.0	-0.00028 mg/L		0.000240	-0.00055 mg/L	0.000480	1.30%
Al 308.215†	56814.9	41.87 mg/L		0.211	83.75 mg/L	0.422	87.12%
As 188.979†	-105.9	0.02234 mg/L		0.002643	0.04467 mg/L	0.005286	0.50%
B 249.677†	74.5	0.01132 mg/L		0.000637	0.02264 mg/L	0.001274	11.83%
Ba 233.527†	1371.3	0.3367 mg/L		0.00344	0.6735 mg/L	0.00687	5.63%
Be 313.042†	345.8	0.00060 mg/L		0.000053	0.00119 mg/L	0.000107	1.02%
Ca 317.933†	210849.0	18.13 mg/L		0.062	36.27 mg/L	0.124	8.99%
Cd 228.802†	50.6	0.00198 mg/L		0.000190	0.00395 mg/L	0.000379	0.34%
Co 228.616†	1128.0	0.02666 mg/L		0.000527	0.05331 mg/L	0.001053	9.60%
Cr 267.716†	668.7	0.1210 mg/L		0.00125	0.2420 mg/L	0.00251	1.98%
Cu 324.752†	28657.3	0.1322 mg/L		0.00231	0.2644 mg/L	0.00462	1.04%
Fe 273.955†	71690.7	60.96 mg/L		0.259	121.9 mg/L	0.52	1.75%
K 766.490†	3803.7	2.243 mg/L		0.0261	4.485 mg/L	0.0522	0.43%
Mg 279.077†	17300.8	15.21 mg/L		0.119	30.42 mg/L	0.238	1.16%
Mn 257.610†	53082.1	1.620 mg/L		0.0058	3.241 mg/L	0.0117	0.78%
Mo 202.031†	46.2	0.00247 mg/L		0.000094	0.00494 mg/L	0.000189	0.36%
Na 589.592†	11372.0	1.116 mg/L		0.0019	2.233 mg/L	0.00037	3.82%
Na 330.237†	25.3	1.595 mg/L		0.1317	3.190 mg/L	0.2634	0.17%
Ni 231.604†	418.4	0.1128 mg/L		0.00263	0.2257 mg/L	0.00526	8.26%
Pb 220.353†	478.2	0.07484 mg/L		0.001191	0.1497 mg/L	0.00238	2.33%
Sb 206.836†	4.2	0.00165 mg/L		0.001646	0.00330 mg/L	0.003292	1.59%
Se 196.026†	-2.3	-0.00187 mg/L		0.004824	-0.00375 mg/L	0.009649	99.76%
Si 288.158†	8807.6	5.317 mg/L		0.0442	10.63 mg/L	0.088	257.46%
Sn 189.927†	-15.7	-0.00208 mg/L		0.001348	-0.00416 mg/L	0.002696	0.83%
Sr 421.552†	81164.1	0.1112 mg/L		0.00053	0.2225 mg/L	0.00107	64.86%
Ti 334.903†	52886.3	3.198 mg/L		0.0107	6.396 mg/L	0.0215	0.48%
Tl 190.801†	0.2	0.00592 mg/L		0.002003	0.01183 mg/L	0.004005	0.34%
V 292.402†	14679.7	0.1354 mg/L		0.00202	0.2709 mg/L	0.00403	33.85%
Zn 206.200†	1766.1	0.5154 mg/L		0.00517	1.031 mg/L	0.0103	1.49%
							1.00%

Sequence No.: 4

Sample ID: VR58 D SWC

Autosampler Location: 307

Date Collected: 11/27/2012 11:20:29 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 D SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR58 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2326400.3	105.2 %	%	0.35			0.33%
ScR 361.383	288893.9	105.2 %	%	0.37			0.35%
Ag 328.068†	-32.3	-0.00018 mg/L	mg/L	0.000112	-0.00036 mg/L	0.000223	61.79%
Al 308.215†	56902.7	41.94 mg/L	mg/L	0.046	83.88 mg/L	0.093	0.11%
As 188.979†	-83.7	0.01768 mg/L	mg/L	0.002546	0.03537 mg/L	0.005093	14.40%
B 249.677†	65.5	0.00995 mg/L	mg/L	0.000634	0.01991 mg/L	0.001267	6.36%
Ba 233.527†	1267.1	0.3094 mg/L	mg/L	0.00347	0.6188 mg/L	0.00693	1.12%
Be 313.042†	350.4	0.00061 mg/L	mg/L	0.000046	0.00123 mg/L	0.000091	7.41%
Ca 317.933†	165971.2	14.27 mg/L	mg/L	0.091	28.55 mg/L	0.182	0.64%
Cd 228.802†	53.4	0.00193 mg/L	mg/L	0.000157	0.00385 mg/L	0.000314	8.15%
Co 228.616†	985.8	0.02363 mg/L	mg/L	0.000079	0.04727 mg/L	0.000159	0.34%
Cr 267.716†	651.6	0.1183 mg/L	mg/L	0.00098	0.2365 mg/L	0.00195	0.83%
Cu 324.752†	29430.9	0.1361 mg/L	mg/L	0.00048	0.2722 mg/L	0.00096	0.35%
Fe 273.955†	78694.5	66.91 mg/L	mg/L	0.417	133.8 mg/L	0.83	0.62%
K 766.490†	3831.3	2.259 mg/L	mg/L	0.0194	4.518 mg/L	0.0389	0.86%
Mg 279.077†	16380.7	14.39 mg/L	mg/L	0.119	28.79 mg/L	0.237	0.82%
Mn 257.610†	60876.8	1.858 mg/L	mg/L	0.0104	3.716 mg/L	0.0207	0.56%
Mo 202.031†	41.0	0.00221 mg/L	mg/L	0.000177	0.00441 mg/L	0.000354	8.02%
Na 589.592†	8490.6	0.8336 mg/L	mg/L	0.00831	1.667 mg/L	0.0166	1.00%
Na 330.237†	13.8	0.9952 mg/L	mg/L	0.17083	1.990 mg/L	0.3417	17.16%
Ni 231.604†	372.0	0.1003 mg/L	mg/L	0.00161	0.2007 mg/L	0.00322	1.60%
Pb 220.353†	440.0	0.06922 mg/L	mg/L	0.000961	0.1384 mg/L	0.00192	1.39%
Sb 206.836†	7.1	0.00237 mg/L	mg/L	0.001049	0.00474 mg/L	0.002099	44.24%
Se 196.026†	-0.2	-0.00024 mg/L	mg/L	0.002060	-0.00047 mg/L	0.004120	873.17%
Si 288.158†	11161.2	6.737 mg/L	mg/L	0.0427	13.47 mg/L	0.085	0.63%
Sn 189.927†	-12.0	-0.00151 mg/L	mg/L	0.000782	-0.00301 mg/L	0.001564	51.97%
Sr 421.552†	68501.4	0.09388 mg/L	mg/L	0.000244	0.1878 mg/L	0.00049	0.26%
Ti 334.903†	41812.9	2.528 mg/L	mg/L	0.0094	5.057 mg/L	0.0189	0.37%
Tl 190.801†	-11.4	0.00119 mg/L	mg/L	0.003981	0.00239 mg/L	0.007962	333.26%
V 292.402†	13332.1	0.1229 mg/L	mg/L	0.00024	0.2458 mg/L	0.00048	0.20%
Zn 206.200†	1541.3	0.4498 mg/L	mg/L	0.00325	0.8996 mg/L	0.00650	0.72%

Sequence No.: 5

Sample ID: VR58 E SWC

Autosampler Location: 308

Date Collected: 11/27/2012 11:24:28 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 E SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VR58 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2306648.5	104.3 %	0.61			0.59%
ScR 361.383	290390.1	105.7 %	3.66			3.46%
Ag 328.068†	-28.3	-0.00015 mg/L	0.000213	-0.00030 mg/L	0.000425	139.53%
Al 308.215†	59497.2	43.85 mg/L	1.801	87.70 mg/L	3.601	4.11%
As 188.979†	-89.5	0.01882 mg/L	0.002622	0.03764 mg/L	0.005244	13.93%
B 249.677†	81.9	0.01245 mg/L	0.001137	0.02490 mg/L	0.002274	9.13%
Ba 233.527†	1303.9	0.3186 mg/L	0.01137	0.6373 mg/L	0.02273	3.57%
Be 313.042†	362.2	0.00063 mg/L	0.000098	0.00127 mg/L	0.000196	15.48%
Ca 317.933†	173666.6	14.94 mg/L	0.577	29.87 mg/L	1.154	3.86%
Cd 228.802†	54.2	0.00197 mg/L	0.000034	0.00395 mg/L	0.000069	1.74%
Co 228.616†	1012.6	0.02409 mg/L	0.000409	0.04819 mg/L	0.000819	1.70%
Cr 267.716†	670.1	0.1216 mg/L	0.00449	0.2433 mg/L	0.00898	3.69%
Cu 324.752†	29990.5	0.1386 mg/L	0.00046	0.2773 mg/L	0.00092	0.33%
Fe 273.955†	79351.9	67.47 mg/L	2.554	134.9 mg/L	5.11	3.78%
K 766.490†	4121.1	2.430 mg/L	0.1024	4.859 mg/L	0.2047	4.21%
Mg 279.077†	15845.5	13.92 mg/L	0.546	27.85 mg/L	1.091	3.92%
Mn 257.610†	61340.8	1.872 mg/L	0.0713	3.745 mg/L	0.1425	3.81%
Mo 202.031†	45.8	0.00248 mg/L	0.000300	0.00495 mg/L	0.000599	12.10%
Na 589.592†	9327.6	0.9158 mg/L	0.03281	1.832 mg/L	0.0656	3.58%
Na 330.237†	17.9	1.200 mg/L	0.3066	2.399 mg/L	0.6132	25.56%
Ni 231.604†	372.0	0.1003 mg/L	0.00450	0.2006 mg/L	0.00899	4.48%
Pb 220.353†	446.8	0.07062 mg/L	0.001687	0.1412 mg/L	0.00337	2.39%
Sb 206.836†	5.7	0.00192 mg/L	0.001503	0.00385 mg/L	0.003006	78.12%
Se 196.026†	3.3	0.00249 mg/L	0.001388	0.00497 mg/L	0.002775	55.84%
Si 288.158†	9269.6	5.596 mg/L	0.1846	11.19 mg/L	0.369	3.30%
Sn 189.927†	-16.0	-0.00263 mg/L	0.001097	-0.00527 mg/L	0.002193	41.62%
Sr 421.552†	72105.6	0.09882 mg/L	0.003935	0.1976 mg/L	0.00787	3.98%
Ti 334.903†	44663.1	2.701 mg/L	0.1040	5.402 mg/L	0.2080	3.85%
Tl 190.801†	-9.4	0.00216 mg/L	0.000897	0.00432 mg/L	0.001795	41.57%
V 292.402†	13928.9	0.1284 mg/L	0.00055	0.2569 mg/L	0.00110	0.43%
Zn 206.200†	1550.1	0.4524 mg/L	0.01653	0.9048 mg/L	0.03306	3.65%

VRB2:01670

Sequence No.: 6

Sample ID: VR58 ADUP SWC

Autosampler Location: 309

Date Collected: 11/27/2012 11:28:27 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 ADUP SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR58 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2344993.8	106.1	%	0.34			0.32%
ScR 361.383	290103.9	105.6	%	3.92			3.71%
Ag 328.068†	2.3	0.00007	mg/L	0.000375	0.00015 mg/L	0.000750	515.22%
Al 308.215†	79478.6	58.58	mg/L	2.760	117.2 mg/L	5.52	4.71%
As 188.979†	265.0	0.3010	mg/L	0.00444	0.6019 mg/L	0.00888	1.48%
B 249.677†	94.3	0.01433	mg/L	0.000732	0.02866 mg/L	0.001464	5.11%
Ba 233.527†	1459.5	0.3533	mg/L	0.01326	0.7067 mg/L	0.02652	3.75%
Be 313.042†	531.4	0.00092	mg/L	0.000084	0.00184 mg/L	0.000167	9.08%
Ca 317.933†	317647.7	27.32	mg/L	1.332	54.64 mg/L	2.664	4.88%
Cd 228.802†	97.1	0.00198	mg/L	0.000245	0.00395 mg/L	0.000490	12.41%
Co 228.616†	1828.0	0.04432	mg/L	0.000807	0.08863 mg/L	0.001614	1.82%
Cr 267.716†	1044.4	0.1886	mg/L	0.00609	0.3772 mg/L	0.01219	3.23%
Cu 324.752†	51501.8	0.2371	mg/L	0.00082	0.4743 mg/L	0.00164	0.35%
Fe 273.955†	112565.3	95.71	mg/L	4.890	191.4 mg/L	9.78	5.11%
K 766.490†	5886.3	3.470	mg/L	0.1723	6.941 mg/L	0.3446	4.96%
Mg 279.077†	32998.0	29.02	mg/L	1.055	58.04 mg/L	2.109	3.63%
Mn 257.610†	59876.4	1.828	mg/L	0.0901	3.656 mg/L	0.1802	4.93%
Mo 202.031†	455.7	0.02601	mg/L	0.000172	0.05203 mg/L	0.000344	0.66%
Na 589.592†	19187.8	1.884	mg/L	0.0887	3.768 mg/L	0.1774	4.71%
Na 330.237†	37.3	2.139	mg/L	0.4997	4.279 mg/L	0.9993	23.35%
Ni 231.604†	710.7	0.1917	mg/L	0.00678	0.3835 mg/L	0.01355	3.53%
Pb 220.353†	2479.4	0.3590	mg/L	0.00150	0.7179 mg/L	0.00301	0.42%
Sb 206.836†	320.4	0.1134	mg/L	0.00142	0.2268 mg/L	0.00284	1.25%
Se 196.026†	-1.6	-0.00141	mg/L	0.003584	-0.00281 mg/L	0.007167	254.79%
Si 288.158†	9404.2	5.678	mg/L	0.2019	11.36 mg/L	0.404	3.55%
Sn 189.927†	84.2	0.02972	mg/L	0.000901	0.05945 mg/L	0.001801	3.03%
Sr 421.552†	109514.4	0.1501	mg/L	0.00710	0.3002 mg/L	0.01421	4.73%
Ti 334.903†	76645.6	4.635	mg/L	0.2158	9.269 mg/L	0.4316	4.66%
Tl 190.801†	-11.6	0.00376	mg/L	0.000748	0.00753 mg/L	0.001497	19.88%
V 292.402†	21123.1	0.1946	mg/L	0.00089	0.3891 mg/L	0.00179	0.46%
Zn 206.200†	4626.6	1.350	mg/L	0.0486	2.700 mg/L	0.0972	3.60%

Sequence No.: 7

Sample ID: VR58 A SWC

Autosampler Location: 310

Date Collected: 11/27/2012 11:32:26 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 A SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VR58 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2338771.8	105.8	%	0.58			0.55%
ScR 361.383	289664.8	105.5	%	2.87			2.72%
Ag 328.068†	-37.1	-0.00019	mg/L	0.000050	-0.00038 mg/L	0.000100	26.52%
Al 308.215†	83416.3	61.48	mg/L	2.174	123.0 mg/L	4.35	3.54%
As 188.979†	-213.0	0.00894	mg/L	0.003667	0.01789 mg/L	0.007334	41.01%
B 249.677†	82.3	0.01246	mg/L	0.000617	0.02492 mg/L	0.001234	4.95%
Ba 233.527†	1308.4	0.3155	mg/L	0.00941	0.6310 mg/L	0.01882	2.98%
Be 313.042†	549.1	0.00095	mg/L	0.000076	0.00189 mg/L	0.000152	8.02%
Ca 317.933†	364561.9	31.35	mg/L	1.199	62.70 mg/L	2.399	3.83%
Cd 228.802†	54.0	0.00233	mg/L	0.000120	0.00467 mg/L	0.000240	5.15%
Co 228.616†	1836.7	0.04359	mg/L	0.000580	0.08718 mg/L	0.001160	1.33%
Cr 267.716†	967.1	0.1746	mg/L	0.00382	0.3491 mg/L	0.00763	2.19%
Cu 324.752†	23602.4	0.1101	mg/L	0.00032	0.2202 mg/L	0.00065	0.29%
Fe 273.955†	109677.3	93.26	mg/L	3.435	186.5 mg/L	6.87	3.68%
K 766.490†	5119.5	3.018	mg/L	0.1238	6.037 mg/L	0.2475	4.10%
Mg 279.077†	33295.5	29.28	mg/L	0.802	58.56 mg/L	1.603	2.74%
Mn 257.610†	59547.4	1.818	mg/L	0.0679	3.635 mg/L	0.1358	3.73%
Mo 202.031†	59.8	0.00310	mg/L	0.000167	0.00621 mg/L	0.000333	5.37%
Na 589.592†	13872.0	1.362	mg/L	0.0476	2.724 mg/L	0.0952	3.49%
Na 330.237†	18.1	1.729	mg/L	0.3032	3.458 mg/L	0.6063	17.53%
Ni 231.604†	725.4	0.1956	mg/L	0.00590	0.3912 mg/L	0.01180	3.02%
Pb 220.353†	710.2	0.1110	mg/L	0.00088	0.2220 mg/L	0.00175	0.79%
Sb 206.836†	7.9	0.00326	mg/L	0.001576	0.00653 mg/L	0.003153	48.29%
Se 196.026†	-1.7	-0.00148	mg/L	0.003109	-0.00295 mg/L	0.006217	210.45%
Si 288.158†	11039.3	6.665	mg/L	0.1750	13.33 mg/L	0.350	2.63%
Sn 189.927†	-30.0	-0.00450	mg/L	0.000892	-0.00899 mg/L	0.001785	19.85%
Sr 421.552†	100961.0	0.1384	mg/L	0.00487	0.2767 mg/L	0.00975	3.52%
Ti 334.903†	85328.5	5.160	mg/L	0.1868	10.32 mg/L	0.374	3.62%
Tl 190.801†	-9.3	0.00456	mg/L	0.001525	0.00911 mg/L	0.003049	33.46%
V 292.402†	21982.9	0.2024	mg/L	0.00035	0.4048 mg/L	0.00069	0.17%
Zn 206.200†	1950.8	0.5693	mg/L	0.01568	1.139 mg/L	0.0314	2.76%

Sequence No.: 8

Sample ID: VR58 ASPK SWC

Autosampler Location: 311

Date Collected: 11/27/2012 11:36:25 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 ASPK SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR58 ASPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2364661.1	107.0	%	0.76			0.71%
ScR 361.383	293652.3	106.9	%	0.58			0.54%
Ag 328.068†	73160.9	0.4916	mg/L	0.00481	0.9833	mg/L	0.00962
Al 308.215†	78539.8	57.88	mg/L	0.074	115.8	mg/L	0.15
As 188.979†	2944.3	2.004	mg/L	0.0226	4.008	mg/L	0.0452
B 249.677†	92.7	0.01306	mg/L	0.001221	0.02611	mg/L	0.002442
Ba 233.527†	8980.7	2.257	mg/L	0.0181	4.514	mg/L	0.0363
Be 313.042†	254187.8	0.4860	mg/L	0.00062	0.9720	mg/L	0.00123
Ca 317.933†	581459.3	50.01	mg/L	0.046	100.0	mg/L	0.09
Cd 228.802†	13425.9	0.5197	mg/L	0.00453	1.039	mg/L	0.0091
Co 228.616†	18091.7	0.5309	mg/L	0.00510	1.062	mg/L	0.0102
Cr 267.716†	3559.7	0.6396	mg/L	0.00830	1.279	mg/L	0.0166
Cu 324.752†	131806.0	0.6018	mg/L	0.00506	1.204	mg/L	0.0101
Fe 273.955†	100221.2	85.21	mg/L	0.088	170.4	mg/L	0.18
K 766.490†	21207.4	12.50	mg/L	0.021	25.01	mg/L	0.042
Mg 279.077†	42717.0	37.59	mg/L	0.274	75.17	mg/L	0.547
Mn 257.610†	71393.4	2.180	mg/L	0.0012	4.359	mg/L	0.0025
Mo 202.031†	78.1	0.00394	mg/L	0.000338	0.00787	mg/L	0.000676
Na 589.592†	112266.0	11.02	mg/L	0.008	22.04	mg/L	0.017
Na 330.237†	281.9	12.15	mg/L	0.490	24.29	mg/L	0.979
Ni 231.604†	2395.6	0.6456	mg/L	0.00279	1.291	mg/L	0.0056
Pb 220.353†	14410.8	2.038	mg/L	0.0200	4.077	mg/L	0.0400
Sb 206.836†	2184.6	0.7658	mg/L	0.00899	1.532	mg/L	0.0180
Se 196.026†	2578.9	2.002	mg/L	0.0198	4.004	mg/L	0.0396
Si 288.158†	9544.1	5.766	mg/L	0.0409	11.53	mg/L	0.082
Sn 189.927†	-37.7	-0.00429	mg/L	0.000852	-0.00858	mg/L	0.001705
Sr 421.552†	467519.7	0.6407	mg/L	0.00041	1.281	mg/L	0.0008
Ti 334.903†	67554.4	4.084	mg/L	0.0005	8.167	mg/L	0.0009
Tl 190.801†	4066.7	1.906	mg/L	0.0155	3.813	mg/L	0.0311
V 292.402†	69412.5	0.6531	mg/L	0.00706	1.306	mg/L	0.0141
Zn 206.200†	3591.4	1.048	mg/L	0.0052	2.096	mg/L	0.0105

Sequence No.: 9

Sample ID: VR58 APOST SWC

Autosampler Location: 312

Date Collected: 11/27/2012 11:39:26 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 APOST SWC

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: VR58 APOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2353764.4	106.5 %	%	0.31			
ScR 361.383	292669.3	106.6 %	%	0.61			0.29%
Ag 328.068†	69545.6	0.4674 mg/L	mg/L	0.00134	0.9347 mg/L	0.00268	0.57%
Al 308.215†	85401.1	62.93 mg/L	mg/L	0.098	125.9 mg/L	0.20	0.29%
As 188.979†	2847.6	1.972 mg/L	mg/L	0.0019	3.943 mg/L	0.0039	0.16%
B 249.677†	84.8	0.01185 mg/L	mg/L	0.001767	0.02369 mg/L	0.0039	0.10%
Ba 233.527†	8923.9	2.241 mg/L	mg/L	0.0123	4.482 mg/L	0.003533	14.91%
Be 313.042†	250172.4	0.4783 mg/L	mg/L	0.00068	0.9566 mg/L	0.0247	0.55%
Ca 317.933†	479128.8	41.21 mg/L	mg/L	0.036	82.41 mg/L	0.00137	0.14%
Cd 228.802†	13255.1	0.5133 mg/L	mg/L	0.00100	1.027 mg/L	0.072	0.09%
Co 228.616†	18220.3	0.5326 mg/L	mg/L	0.00068	1.065 mg/L	0.0020	0.20%
Cr 267.716†	3621.3	0.6510 mg/L	mg/L	0.00317	1.302 mg/L	0.0014	0.13%
Cu 324.752†	130974.9	0.5982 mg/L	mg/L	0.00090	1.196 mg/L	0.0063	0.49%
Fe 273.955†	110706.8	94.13 mg/L	mg/L	0.185	188.3 mg/L	0.0018	0.15%
K 766.490†	21833.2	12.87 mg/L	mg/L	0.014	25.74 mg/L	0.37	0.20%
Mg 279.077†	44307.1	38.98 mg/L	mg/L	0.243	77.97 mg/L	0.028	0.11%
Mn 257.610†	74382.4	2.271 mg/L	mg/L	0.0038	4.542 mg/L	0.487	0.62%
Mo 202.031†	72.8	0.00373 mg/L	mg/L	0.00060	0.00745 mg/L	0.0077	0.17%
Na 589.592†	109121.8	10.71 mg/L	mg/L	0.021	21.43 mg/L	0.000119	1.60%
Na 330.237†	261.8	11.56 mg/L	mg/L	0.429	23.13 mg/L	0.042	0.20%
Ni 231.604†	2401.7	0.6481 mg/L	mg/L	0.00236	1.296 mg/L	0.858	3.71%
Pb 220.353†	14359.1	2.032 mg/L	mg/L	0.0021	4.064 mg/L	0.0047	0.36%
Sb 206.836†	6175.3	2.174 mg/L	mg/L	0.0038	4.348 mg/L	0.0041	0.10%
Se 196.026†	2555.7	1.984 mg/L	mg/L	0.0052	3.968 mg/L	0.0077	0.18%
Si 288.158†	10860.9	6.561 mg/L	mg/L	0.0646	13.12 mg/L	0.0105	0.26%
Sn 189.927†	-44.7	-0.00671 mg/L	mg/L	0.001415	-0.01343 mg/L	0.129	0.98%
Sr 421.552†	445173.2	0.6101 mg/L	mg/L	0.00115	1.220 mg/L	0.002829	21.07%
Ti 334.903†	84553.3	5.112 mg/L	mg/L	0.0135	10.22 mg/L	0.0023	0.19%
Tl 190.801†	4037.7	1.894 mg/L	mg/L	0.0030	3.787 mg/L	0.027	0.26%
V 292.402†	71094.5	0.6682 mg/L	mg/L	0.00052	1.336 mg/L	0.0060	0.16%
Zn 206.200†	3501.5	1.022 mg/L	mg/L	0.0082	2.044 mg/L	0.0010	0.08%
						0.0163	0.80%

VR82: 01674

Sequence No.: 10

Sample ID: VR58 MB1SPK SWC

Autosampler Location: 313

Date Collected: 11/27/2012 11:42:27 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 MB1SPK SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR58 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2319981.8	104.9 %	0.48			0.46%
ScR 361.383	284472.6	103.6 %	0.62			0.60%
Ag 328.068†	79239.0	0.5324 mg/L	0.00077	1.065 mg/L	0.0015	0.15%
Al 308.215†	2831.7	2.080 mg/L	0.0212	4.160 mg/L	0.0423	1.02%
As 188.979†	3199.9	2.054 mg/L	0.0144	4.107 mg/L	0.0289	0.70%
B 249.677†	12.0	0.00079 mg/L	0.000882	0.00158 mg/L	0.001764	111.35%
Ba 233.527†	8039.6	2.033 mg/L	0.0245	4.065 mg/L	0.0489	1.20%
Be 313.042†	259548.0	0.4963 mg/L	0.00423	0.9927 mg/L	0.00845	0.85%
Ca 317.933†	118954.3	10.23 mg/L	0.107	20.46 mg/L	0.213	1.04%
Cd 228.802†	13450.4	0.5203 mg/L	0.00130	1.041 mg/L	0.0026	0.25%
Co 228.616†	17061.2	0.5091 mg/L	0.00079	1.018 mg/L	0.0016	0.15%
Cr 267.716†	2852.2	0.5119 mg/L	0.00494	1.024 mg/L	0.0099	0.97%
Cu 324.752†	108532.4	0.4934 mg/L	0.00145	0.9869 mg/L	0.00290	0.29%
Fe 273.955†	2529.2	2.147 mg/L	0.0175	4.294 mg/L	0.0350	0.81%
K 766.490†	17260.5	10.18 mg/L	0.090	20.35 mg/L	0.181	0.89%
Mg 279.077†	12120.6	10.68 mg/L	0.126	21.36 mg/L	0.252	1.18%
Mn 257.610†	16583.1	0.5065 mg/L	0.00443	1.013 mg/L	0.0089	0.88%
Mo 202.031†	17.7	0.00089 mg/L	0.000403	0.00177 mg/L	0.000806	45.49%
Na 589.592†	98227.4	9.644 mg/L	0.0536	19.29 mg/L	0.107	0.56%
Na 330.237†	258.5	10.44 mg/L	0.151	20.88 mg/L	0.301	1.44%
Ni 231.604†	1833.4	0.4947 mg/L	0.00635	0.9895 mg/L	0.01270	1.28%
Pb 220.353†	14138.2	1.990 mg/L	0.0019	3.980 mg/L	0.0038	0.10%
Sb 206.836†	6082.7	2.141 mg/L	0.0146	4.281 mg/L	0.0292	0.68%
Se 196.026†	2632.2	2.043 mg/L	0.0081	4.087 mg/L	0.0162	0.40%
Si 288.158†	-0.9	0.00269 mg/L	0.001038	0.00538 mg/L	0.002076	38.59%
Sn 189.927†	-18.1	-0.00319 mg/L	0.000530	-0.00639 mg/L	0.001060	16.60%
Sr 421.552†	358641.6	0.4915 mg/L	0.00360	0.9830 mg/L	0.00721	0.73%
Ti 334.903†	37.3	0.00167 mg/L	0.000102	0.00333 mg/L	0.000204	6.11%
Tl 190.801†	4289.1	2.002 mg/L	0.0098	4.005 mg/L	0.0196	0.49%
V 292.402†	53700.3	0.5092 mg/L	0.00064	1.018 mg/L	0.0013	0.13%
Zn 206.200†	1717.8	0.5014 mg/L	0.00617	1.003 mg/L	0.0123	1.23%

Sequence No.: 11
 Sample ID: CV 2

Autosampler Location: 7
 Date Collected: 11/27/2012 11:46:26 AM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 218.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2304737.8	104.2 %	0.47			
ScR 361.383	283599.2	103.3 %	1.75			0.45%
Ag 328.068†	152737.5	1.026 mg/L	0.0044	1.026 mg/L	0.0044	1.70%
Al 308.215†	2811.5	2.038 mg/L	0.0396	2.038 mg/L	0.0396	0.43%
As 188.979†	3115.8	2.027 mg/L	0.0117	2.027 mg/L	0.0117	1.94%
B 249.677†	6293.1	0.9608 mg/L	0.01625	0.9608 mg/L	0.01625	0.58%
Ba 233.527†	3945.0	0.9971 mg/L	0.01725	0.9971 mg/L	0.01725	1.69%
Be 233.042†	502279.7	0.9605 mg/L	0.01887	0.9605 mg/L	0.01887	1.73%
Ca 317.933†	23081.9	1.985 mg/L	0.0357	1.985 mg/L	0.0357	1.96%
Cd 228.802†	25709.1	1.007 mg/L	0.0053	1.007 mg/L	0.0053	1.80%
Co 228.616†	33092.8	0.9859 mg/L	0.00533	0.9859 mg/L	0.00533	0.53%
Cr 267.716†	5571.3	1.002 mg/L	0.0162	1.002 mg/L	0.0162	0.54%
Cu 324.752†	221787.5	1.008 mg/L	0.0055	1.008 mg/L	0.0055	1.61%
Fe 273.955†	2485.7	2.107 mg/L	0.0352	2.107 mg/L	0.0352	0.55%
K 766.490†	34106.7	20.11 mg/L	0.497	20.11 mg/L	0.497	1.67%
Mg 279.077†	2347.6	2.075 mg/L	0.0388	2.075 mg/L	0.0388	2.47%
Mn 257.610†	31551.9	0.9634 mg/L	0.01703	0.9634 mg/L	0.01703	1.87%
Mo 202.031†	17430.8	1.007 mg/L	0.0066	1.007 mg/L	0.0066	1.77%
Na 589.592†	491899.5	48.29 mg/L	0.980	48.29 mg/L	0.980	0.66%
Na 330.237†	1297.9	53.15 mg/L	0.865	53.15 mg/L	0.865	2.03%
Ni 231.604†	3590.5	0.9686 mg/L	0.01514	0.9686 mg/L	0.01514	1.63%
Pb 220.353†	13898.8	1.957 mg/L	0.0136	1.957 mg/L	0.0136	1.56%
Sb 206.836†	6116.3	2.157 mg/L	0.0114	2.157 mg/L	0.0114	0.70%
Se 196.026†	2556.4	1.984 mg/L	0.0084	1.984 mg/L	0.0084	0.53%
Si 288.158†	3666.3	2.212 mg/L	0.0382	2.212 mg/L	0.0382	0.42%
Sn 189.927†	3388.0	1.032 mg/L	0.0026	1.032 mg/L	0.0026	1.73%
Sr 421.552†	694492.9	0.9518 mg/L	0.01870	0.9518 mg/L	0.01870	0.26%
Ti 334.903†	17761.6	1.073 mg/L	0.0220	1.073 mg/L	0.0220	1.96%
Tl 190.801†	4264.9	1.987 mg/L	0.0110	1.987 mg/L	0.0110	2.05%
V 292.402†	105507.4	1.000 mg/L	0.0048	1.000 mg/L	0.0048	0.55%
Zn 206.200†	3441.7	1.004 mg/L	0.0201	1.004 mg/L	0.0201	0.48%
						2.00%

Sequence No.: 12

Autosampler Location: 1

Sample ID: CB 2

Date Collected: 11/27/2012 11:51:30 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2312045.3	104.6	%	0.30				0.29%
ScR 361.383	285840.4	104.1	%	0.40				0.39%
Ag 328.068†	-0.9	-0.00001	mg/L	0.000268	-0.00001	mg/L	0.000268	>999.9%
Al 308.215†	-4.8	-0.00356	mg/L	0.002879	-0.00356	mg/L	0.002879	80.90%
As 188.979†	-0.2	-0.00014	mg/L	0.000550	-0.00014	mg/L	0.000550	390.47%
B 249.677†	15.2	0.00233	mg/L	0.000428	0.00233	mg/L	0.000428	18.41%
Ba 233.527†	-0.6	-0.00016	mg/L	0.001663	-0.00016	mg/L	0.001663	>999.9%
Be 313.042†	20.9	0.00004	mg/L	0.000048	0.00004	mg/L	0.000048	120.80%
Ca 317.933†	-4.3	-0.00037	mg/L	0.000156	-0.00037	mg/L	0.000156	42.42%
Cd 228.802†	-1.5	-0.00006	mg/L	0.000016	-0.00006	mg/L	0.000016	27.64%
Co 228.616†	-1.5	-0.00004	mg/L	0.000066	-0.00004	mg/L	0.000066	154.88%
Cr 267.716†	1.5	0.00027	mg/L	0.001200	0.00027	mg/L	0.001200	450.39%
Cu 324.752†	-135.3	-0.00062	mg/L	0.000199	-0.00062	mg/L	0.000199	32.37%
Fe 273.955†	0.6	0.00052	mg/L	0.001489	0.00052	mg/L	0.001489	286.07%
K 766.490†	-16.1	-0.00951	mg/L	0.010206	-0.00951	mg/L	0.010206	107.32%
Mg 279.077†	2.1	0.00184	mg/L	0.007421	0.00184	mg/L	0.007421	402.35%
Mn 257.610†	6.2	0.00019	mg/L	0.000040	0.00019	mg/L	0.000040	21.02%
Mo 202.031†	14.0	0.00081	mg/L	0.000267	0.00081	mg/L	0.000267	33.02%
Na 589.592†	45.8	0.00450	mg/L	0.003517	0.00450	mg/L	0.003517	78.16%
Na 330.237†	10.5	0.4290	mg/L	0.47023	0.4290	mg/L	0.47023	109.62%
Ni 231.604†	1.9	0.00051	mg/L	0.000245	0.00051	mg/L	0.000245	48.11%
Pb 220.353†	9.0	0.00127	mg/L	0.000748	0.00127	mg/L	0.000748	58.95%
Sb 206.836†	6.8	0.00240	mg/L	0.001394	0.00240	mg/L	0.001394	58.00%
Se 196.026†	-8.4	-0.00650	mg/L	0.003997	-0.00650	mg/L	0.003997	61.54%
Si 288.158†	2.5	0.00150	mg/L	0.004567	0.00150	mg/L	0.004567	303.82%
Sn 189.927†	2.3	0.00070	mg/L	0.000906	0.00070	mg/L	0.000906	130.30%
Sr 421.552†	50.6	0.00007	mg/L	0.000047	0.00007	mg/L	0.000047	68.24%
Ti 334.903†	-22.4	-0.00136	mg/L	0.000860	-0.00136	mg/L	0.000860	63.34%
Tl 190.801†	6.9	0.00325	mg/L	0.002539	0.00325	mg/L	0.002539	78.13%
V 292.402†	14.5	0.00014	mg/L	0.000182	0.00014	mg/L	0.000182	130.93%
Zn 206.200†	1.2	0.00034	mg/L	0.000296	0.00034	mg/L	0.000296	87.00%

Sequence No.: 13
Sample ID: VR58 F SWC

Autosampler Location: 314
Date Collected: 11/27/2012 11:55:45 AM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 F SWC

Analyte Back Pressure Flow
All 219.0 kPa 0.75 L/min

Mean Data: VR58 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2371495.1	107.3 %		0.21			0.19%
ScR 361.383	293651.8	106.9 %		0.96			0.90%
Ag 328.068†	5.3	0.00009 mg/L		0.000187	0.00018 mg/L	0.000375	208.10%
Al 308.215†	90400.3	66.63 mg/L		0.077	133.3 mg/L	0.15	0.12%
As 188.979†	-147.0	0.03089 mg/L		0.003301	0.06177 mg/L	0.006602	10.69%
B 249.677†	90.3	0.01371 mg/L		0.001442	0.02741 mg/L	0.002885	10.52%
Ba 233.527†	1594.5	0.3864 mg/L		0.00238	0.7729 mg/L	0.00476	0.62%
Be 313.042†	519.9	0.00090 mg/L		0.000022	0.00181 mg/L	0.000044	2.46%
Ca 317.933†	336360.1	28.93 mg/L		0.137	57.85 mg/L	0.274	0.47%
Cd 228.802†	80.7	0.00299 mg/L		0.000112	0.00598 mg/L	0.000224	3.75%
Co 228.616†	1666.8	0.03980 mg/L		0.000130	0.07960 mg/L	0.000260	0.33%
Cr 267.716†	884.6	0.1603 mg/L		0.00087	0.3206 mg/L	0.00174	0.54%
Cu 324.752†	107191.2	0.4906 mg/L		0.00216	0.9813 mg/L	0.00431	0.44%
Fe 273.955†	120142.0	102.2 mg/L		0.81	204.3 mg/L	1.62	0.79%
K 766.490†	6560.7	3.868 mg/L		0.0197	7.736 mg/L	0.0394	0.51%
Mg 279.077†	30643.3	26.94 mg/L		0.198	53.88 mg/L	0.396	0.74%
Mn 257.610†	54271.3	1.657 mg/L		0.0114	3.313 mg/L	0.0229	0.69%
Mo 202.031†	55.6	0.00289 mg/L		0.000240	0.00577 mg/L	0.000481	8.32%
Na 589.592†	16659.4	1.636 mg/L		0.0047	3.271 mg/L	0.0094	0.29%
Na 330.237†	29.8	1.970 mg/L		0.0958	3.941 mg/L	0.1915	4.86%
Ni 231.604†	577.0	0.1556 mg/L		0.00082	0.3112 mg/L	0.00163	0.52%
Pb 220.353†	724.0	0.1132 mg/L		0.00069	0.2264 mg/L	0.00138	0.61%
Sb 206.836†	10.4	0.00398 mg/L		0.001286	0.00795 mg/L	0.002572	32.34%
Se 196.026†	4.0	0.00300 mg/L		0.006101	0.00601 mg/L	0.012203	203.14%
Si 288.158†	9107.4	5.499 mg/L		0.0387	11.00 mg/L	0.077	0.70%
Sn 189.927†	-23.7	-0.00300 mg/L		0.000446	-0.00601 mg/L	0.000891	14.84%
Sr 421.552†	130401.0	0.1787 mg/L		0.00015	0.3574 mg/L	0.00029	0.08%
Ti 334.903†	73424.2	4.440 mg/L		0.0159	8.879 mg/L	0.0317	0.36%
Tl 190.801†	-10.7	0.00493 mg/L		0.002625	0.00986 mg/L	0.005250	53.24%
V 292.402†	19888.8	0.1826 mg/L		0.00070	0.3653 mg/L	0.00140	0.38%
Zn 206.200†	2744.0	0.8008 mg/L		0.00531	1.602 mg/L	0.0106	0.66%

Sequence No.: 14
 Sample ID: VR58 G SWC

Autosampler Location: 315
 Date Collected: 11/27/2012 11:59:45 AM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 G SWC

Analyte Back Pressure Flow
 All 218.0 kPa 0.75 L/min

Mean Data: VR58 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2375973.6	107.5 %		0.49			
ScR 361.383	294345.6	107.2 %		0.34			0.46%
Ag 328.068†	-108.2	-0.00067 mg/L		0.000136	-0.00134 mg/L	0.000271	0.31%
Al 308.215†	95113.4	70.10 mg/L		0.201	140.2 mg/L	0.40	20.24%
As 188.979†	-200.9	0.01436 mg/L		0.001737	0.02872 mg/L	0.003475	0.29%
B 249.677†	70.6	0.01067 mg/L		0.000084	0.02134 mg/L	0.000168	12.10%
Ba 233.527†	1447.7	0.3492 mg/L		0.00228	0.6985 mg/L	0.000456	0.79%
Be 313.042†	453.8	0.00077 mg/L		0.000010	0.00154 mg/L	0.000020	0.65%
Ca 317.933†	331490.0	28.51 mg/L		0.084	57.02 mg/L	0.169	1.29%
Cd 228.802†	40.8	0.00163 mg/L		0.000187	0.00326 mg/L	0.000374	0.30%
Co 228.616†	1862.3	0.04441 mg/L		0.000125	0.08882 mg/L	0.000250	11.46%
Cr 267.716†	893.5	0.1615 mg/L		0.00128	0.3230 mg/L	0.000256	0.28%
Cu 324.752†	8708.9	0.04282 mg/L		0.000373	0.08563 mg/L	0.000746	0.79%
Fe 273.955†	120764.9	102.7 mg/L		0.43	205.4 mg/L	0.85	0.87%
K 766.490†	5385.0	3.175 mg/L		0.0186	6.350 mg/L	0.0372	0.41%
Mg 279.077†	36718.3	32.29 mg/L		0.146	64.58 mg/L	0.292	0.59%
Mn 257.610†	45362.0	1.385 mg/L		0.0048	2.770 mg/L	0.0095	0.45%
Mo 202.031†	39.8	0.00198 mg/L		0.000171	0.00397 mg/L	0.000342	0.34%
Na 589.592†	18459.1	1.812 mg/L		0.0067	3.625 mg/L	0.0134	8.62%
Na 330.237†	27.9	2.154 mg/L		0.0522	4.307 mg/L	0.1044	0.37%
Ni 231.604†	579.0	0.1561 mg/L		0.00091	0.3123 mg/L	0.00181	2.42%
Pb 220.353†	302.5	0.05536 mg/L		0.000745	0.1107 mg/L	0.00149	0.58%
Sb 206.836†	3.0	0.00161 mg/L		0.001604	0.00323 mg/L	0.003209	1.35%
Se 196.026†	-3.0	-0.00251 mg/L		0.005713	-0.00501 mg/L	0.011427	99.40%
Si 288.158†	9573.5	5.781 mg/L		0.0303	11.56 mg/L	0.061	227.93%
Sn 189.927†	-36.4	-0.00683 mg/L		0.000541	-0.01365 mg/L	0.001081	0.52%
Sr 421.552†	89921.6	0.1232 mg/L		0.00047	0.2465 mg/L	0.001081	7.92%
Ti 334.903†	83863.3	5.071 mg/L		0.0191	10.14 mg/L	0.00094	0.38%
Tl 190.801†	-8.7	0.00585 mg/L		0.001235	0.01170 mg/L	0.038	0.38%
V 292.402†	20697.0	0.1899 mg/L		0.00115	0.3797 mg/L	0.002470	21.11%
Zn 206.200†	1502.7	0.4385 mg/L		0.00336	0.8771 mg/L	0.00231	0.61%
						0.00672	0.77%

Sequence No.: 15
Sample ID: VR58 H SWC

Autosampler Location: 316
Date Collected: 11/27/2012 12:03:45 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 H SWC

Analyte Back Pressure Flow
All 219.0 kPa 0.75 L/min

Mean Data: VR58 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2360270.6	106.8 %	%	0.62			0.58%
ScR 361.383	288122.4	104.9 %	%	0.23			0.22%
Ag 328.068†	-144.9	-0.00090 mg/L	mg/L	0.000411	-0.00181 mg/L	0.000823	45.47%
Al 308.215†	107562.4	79.27 mg/L	mg/L	0.090	158.5 mg/L	0.18	0.11%
As 188.979†	-242.2	0.01146 mg/L	mg/L	0.001727	0.02292 mg/L	0.003453	15.07%
B 249.677†	96.4	0.01460 mg/L	mg/L	0.000552	0.02920 mg/L	0.001104	3.78%
Ba 233.527†	1299.4	0.3105 mg/L	mg/L	0.00123	0.6211 mg/L	0.00247	0.40%
Be 313.042†	579.0	0.00099 mg/L	mg/L	0.000007	0.00198 mg/L	0.000014	0.71%
Ca 317.933†	441316.9	37.95 mg/L	mg/L	0.161	75.91 mg/L	0.323	0.43%
Cd 228.802†	34.3	0.00154 mg/L	mg/L	0.000062	0.00307 mg/L	0.000124	4.04%
Co 228.616†	2088.0	0.04941 mg/L	mg/L	0.000231	0.09883 mg/L	0.000463	0.47%
Cr 267.716†	1379.6	0.2483 mg/L	mg/L	0.00138	0.4965 mg/L	0.00277	0.56%
Cu 324.752†	9206.7	0.04513 mg/L	mg/L	0.000178	0.09026 mg/L	0.000356	0.39%
Fe 273.955†	129019.4	109.7 mg/L	mg/L	0.20	219.4 mg/L	0.40	0.18%
K 766.490†	6136.6	3.618 mg/L	mg/L	0.0073	7.236 mg/L	0.0147	0.20%
Mg 279.077†	48046.7	42.27 mg/L	mg/L	0.143	84.54 mg/L	0.286	0.34%
Mn 257.610†	54938.8	1.677 mg/L	mg/L	0.0018	3.354 mg/L	0.0036	0.11%
Mo 202.031†	45.6	0.00221 mg/L	mg/L	0.000136	0.00442 mg/L	0.000272	6.15%
Na 589.592†	15203.7	1.493 mg/L	mg/L	0.0017	2.985 mg/L	0.0034	0.11%
Na 330.237†	9.5	1.621 mg/L	mg/L	0.2274	3.241 mg/L	0.4549	14.03%
Ni 231.604†	790.3	0.2131 mg/L	mg/L	0.00134	0.4262 mg/L	0.00269	0.63%
Pb 220.353†	140.3	0.03460 mg/L	mg/L	0.000375	0.06920 mg/L	0.000749	1.08%
Sb 206.836†	15.6	0.00530 mg/L	mg/L	0.000875	0.01060 mg/L	0.001750	16.51%
Se 196.026†	1.7	0.00114 mg/L	mg/L	0.004283	0.00228 mg/L	0.008567	375.66%
Si 288.158†	9803.5	5.921 mg/L	mg/L	0.0085	11.84 mg/L	0.017	0.14%
Sn 189.927†	-45.1	-0.00818 mg/L	mg/L	0.000978	-0.01637 mg/L	0.001956	11.95%
Sr 421.552†	99359.0	0.1362 mg/L	mg/L	0.00009	0.2723 mg/L	0.00019	0.07%
Ti 334.903†	97880.9	5.919 mg/L	mg/L	0.0075	11.84 mg/L	0.015	0.13%
Tl 190.801†	-11.0	0.00531 mg/L	mg/L	0.002521	0.01063 mg/L	0.005041	47.43%
V 292.402†	25013.2	0.2303 mg/L	mg/L	0.00066	0.4606 mg/L	0.00132	0.29%
Zn 206.200†	1213.1	0.3540 mg/L	mg/L	0.00030	0.7080 mg/L	0.00060	0.09%

Sequence No.: 16
Sample ID: VR58 I SWC

Autosampler Location: 317
Date Collected: 11/27/2012 12:07:44 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 I SWC

Analyte Back Pressure Flow
All 219.0 kPa 0.75 L/min

Mean Data: VR58 I SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std. Dev.	RSD
ScA 357.253	2411021.5	109.1	%	0.54			0.49%
ScR 361.383	296446.9	107.9	%	0.60			0.55%
Ag 328.068†	-128.8	-0.00080	mg/L	0.000202	-0.00159 mg/L	0.000403	25.32%
Al 308.215†	127620.0	94.06	mg/L	0.406	188.1 mg/L	0.81	0.43%
As 188.979†	-219.6	0.01308	mg/L	0.003119	0.02616 mg/L	0.006238	23.85%
B 249.677†	89.4	0.01358	mg/L	0.000997	0.02716 mg/L	0.001993	7.34%
Ba 233.527†	2503.8	0.6179	mg/L	0.00462	1.236 mg/L	0.0092	0.75%
Be 313.042†	672.9	0.00117	mg/L	0.000025	0.00235 mg/L	0.000051	2.16%
Ca 317.933†	297877.2	25.62	mg/L	0.123	51.23 mg/L	0.246	0.48%
Cd 228.802†	26.5	0.00124	mg/L	0.000120	0.00249 mg/L	0.000239	9.61%
Co 228.616†	1443.4	0.03129	mg/L	0.000210	0.06259 mg/L	0.000421	0.67%
Cr 267.716†	1393.5	0.2514	mg/L	0.00124	0.5028 mg/L	0.00248	0.49%
Cu 324.752†	13250.4	0.06297	mg/L	0.000291	0.1259 mg/L	0.000058	0.46%
Fe 273.955†	108725.5	92.45	mg/L	0.604	184.9 mg/L	1.21	0.65%
K 766.490†	5062.5	2.985	mg/L	0.0131	5.969 mg/L	0.0262	0.44%
Mg 279.077†	31239.4	27.47	mg/L	0.121	54.94 mg/L	0.241	0.44%
Mn 257.610†	76295.3	2.329	mg/L	0.0132	4.657 mg/L	0.0264	0.57%
Mo 202.031†	80.2	0.00434	mg/L	0.000252	0.00868 mg/L	0.000505	5.81%
Na 589.592†	16140.8	1.585	mg/L	0.0109	3.169 mg/L	0.0219	0.69%
Na 330.237†	15.4	1.771	mg/L	0.5537	3.543 mg/L	1.1074	31.26%
Ni 231.604†	590.9	0.1594	mg/L	0.00166	0.3187 mg/L	0.00332	1.04%
Pb 220.353†	83.5	0.03084	mg/L	0.000658	0.06167 mg/L	0.001316	2.13%
Sb 206.836†	2.6	0.00052	mg/L	0.003619	0.00105 mg/L	0.007238	690.89%
Se 196.026†	6.5	0.00487	mg/L	0.002705	0.00973 mg/L	0.005410	55.59%
Si 288.158†	12497.5	7.545	mg/L	0.0523	15.09 mg/L	0.105	0.69%
Sn 189.927†	-33.3	-0.00619	mg/L	0.001177	-0.01238 mg/L	0.002353	19.01%
Sr 421.552†	120277.5	0.1648	mg/L	0.00065	0.3297 mg/L	0.00130	0.40%
Ti 334.903†	90047.0	5.445	mg/L	0.0228	10.89 mg/L	0.046	0.42%
Tl 190.801†	-10.6	0.00379	mg/L	0.005938	0.00757 mg/L	0.011876	156.79%
V 292.402†	25113.2	0.2322	mg/L	0.00150	0.4645 mg/L	0.00300	0.65%
Zn 206.200†	1027.6	0.2999	mg/L	0.00340	0.5998 mg/L	0.00679	1.13%

Sequence No.: 17
 Sample ID: VR58 J SWC

Autosampler Location: 318
 Date Collected: 11/27/2012 12:11:43 PM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR58 J SWC

Analyte Back Pressure Flow
 All 219.0 kPa 0.75 L/min

Mean Data: VR58 J SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2366873.1	107.1	%	1.06				0.99%
ScR 361.383	290123.6	105.6	%	0.52				0.49%
Ag 328.068†	-107.2	-0.00066	mg/L	0.000086	-0.00131	mg/L	0.000173	13.16%
Al 308.215†	97766.6	72.06	mg/L	0.255	144.1	mg/L	0.51	0.35%
As 188.979†	-205.2	0.01551	mg/L	0.001629	0.03101	mg/L	0.003258	10.51%
B 249.677†	70.7	0.01069	mg/L	0.001052	0.02138	mg/L	0.002105	9.84%
Ba 233.527†	1264.0	0.3016	mg/L	0.00253	0.6033	mg/L	0.00505	0.84%
Be 313.042†	532.0	0.00091	mg/L	0.000035	0.00182	mg/L	0.000071	3.88%
Ca 317.933†	352093.3	30.28	mg/L	0.173	60.56	mg/L	0.346	0.57%
Cd 228.802†	30.6	0.00121	mg/L	0.000304	0.00242	mg/L	0.000608	25.14%
Co 228.616†	1914.8	0.04561	mg/L	0.000423	0.09122	mg/L	0.000846	0.93%
Cr 267.716†	1314.6	0.2371	mg/L	0.00212	0.4742	mg/L	0.00424	0.89%
Cu 324.752†	9819.3	0.04810	mg/L	0.000489	0.09621	mg/L	0.000979	1.02%
Fe 273.955†	128885.5	109.6	mg/L	0.95	219.2	mg/L	1.90	0.87%
K 766.490†	5848.1	3.448	mg/L	0.0134	6.896	mg/L	0.0269	0.39%
Mg 279.077†	41571.1	36.56	mg/L	0.225	73.13	mg/L	0.450	0.61%
Mn 257.610†	59850.8	1.827	mg/L	0.0108	3.654	mg/L	0.0216	0.59%
Mo 202.031†	44.1	0.00221	mg/L	0.000273	0.00441	mg/L	0.000547	12.40%
Na 589.592†	14397.4	1.414	mg/L	0.0071	2.827	mg/L	0.0141	0.50%
Na 330.237†	11.1	1.526	mg/L	0.1449	3.052	mg/L	0.2898	9.50%
Ni 231.604†	701.4	0.1891	mg/L	0.00141	0.3783	mg/L	0.00281	0.74%
Pb 220.353†	148.9	0.03407	mg/L	0.001183	0.06815	mg/L	0.002367	3.47%
Sb 206.836†	11.6	0.00370	mg/L	0.002569	0.00741	mg/L	0.005138	69.38%
Se 196.026†	3.5	0.00256	mg/L	0.001861	0.00511	mg/L	0.003722	72.81%
Si 288.158†	11293.4	6.820	mg/L	0.0521	13.64	mg/L	0.104	0.76%
Sn 189.927†	-39.3	-0.00746	mg/L	0.001030	-0.01492	mg/L	0.002060	13.81%
Sr 421.552†	95791.6	0.1313	mg/L	0.00025	0.2626	mg/L	0.00050	0.19%
Ti 334.903†	86229.9	5.214	mg/L	0.0203	10.43	mg/L	0.041	0.39%
Tl 190.801†	-13.2	0.00437	mg/L	0.001496	0.00873	mg/L	0.002992	34.26%
V 292.402†	23416.9	0.2156	mg/L	0.00198	0.4312	mg/L	0.00396	0.92%
Zn 206.200†	1194.4	0.3486	mg/L	0.00267	0.6971	mg/L	0.00535	0.77%

Sequence No.: 18
 Sample ID: VR82 A SWC

Autosampler Location: 319
 Date Collected: 11/27/2012 12:15:42 PM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 A SWC

Analyte Back Pressure Flow
 All 218.0 kPa 0.75 L/min

Mean Data: VR82 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2373357.6	107.3	%	0.49			
ScR 361.383	292156.4	106.4	%	0.74			
Ag 328.068†	-60.3	-0.00036	mg/L	0.000169	-0.00073	0.000338	0.45%
Al 308.215†	68678.8	50.62	mg/L	0.250	101.2	0.50	0.69%
As 188.979†	-102.6	0.02722	mg/L	0.002044	0.05443	0.004088	46.29%
B 249.677†	62.9	0.00954	mg/L	0.000937	0.01908	0.001875	0.49%
Ba 233.527†	1331.1	0.3258	mg/L	0.00115	0.01908	0.001875	7.51%
Be 313.042†	380.1	0.00066	mg/L	0.000025	0.6517	0.00230	9.83%
Ca 317.933†	220150.6	18.93	mg/L	0.069	0.00132	0.000050	0.35%
Cd 228.802†	86.4	0.00334	mg/L	0.000104	37.87	0.138	3.78%
Co 228.616†	1180.0	0.02796	mg/L	0.000069	0.00668	0.000207	0.36%
Cr 267.716†	766.5	0.1386	mg/L	0.00147	0.05592	0.000137	3.10%
Cu 324.752†	50029.4	0.2295	mg/L	0.00176	0.2772	0.00295	0.25%
Fe 273.955†	77136.7	65.59	mg/L	0.308	0.4590	0.00352	1.06%
K 766.490†	4471.4	2.636	mg/L	0.0185	131.2	0.62	0.77%
Mg 279.077†	19178.5	16.86	mg/L	0.041	5.272	0.0370	0.47%
Mn 257.610†	60737.6	1.854	mg/L	0.0058	33.72	0.081	0.70%
Mo 202.031†	50.9	0.00273	mg/L	0.000370	3.708	0.0117	0.24%
Na 589.592†	10544.9	1.035	mg/L	0.0043	0.00546	0.000741	0.32%
Na 330.237†	16.5	1.238	mg/L	0.3748	2.071	0.0086	13.57%
Ni 231.604†	438.4	0.1182	mg/L	0.00061	2.476	0.07497	0.42%
Pb 220.353†	1026.8	0.1538	mg/L	0.00112	0.2364	0.00122	30.28%
Sb 206.836†	2.8	0.00097	mg/L	0.000624	0.3076	0.00225	0.51%
Se 196.026†	0.3	0.00012	mg/L	0.001198	0.00194	0.00225	0.73%
Si 288.158†	9705.3	5.859	mg/L	0.0198	0.00025	0.001248	64.45%
Sn 189.927†	-6.6	0.00080	mg/L	0.001041	11.72	0.040	973.20%
Sr 421.552†	81532.3	0.1117	mg/L	0.00051	0.00161	0.002082	0.34%
Ti 334.903†	54521.5	3.297	mg/L	0.0115	0.2235	0.00101	129.55%
Tl 190.801†	-7.2	0.00294	mg/L	0.000964	6.594	0.0230	0.45%
V 292.402†	14825.4	0.1367	mg/L	0.00117	0.00587	0.001928	0.35%
Zn 206.200†	1968.8	0.5746	mg/L	0.00140	0.2734	0.00233	32.85%
					1.149	0.0028	0.85%
							0.24%

Sequence No.: 19
Sample ID: VR82 B SWC

Autosampler Location: 320
Date Collected: 11/27/2012 12:19:41 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 B SWC

Analyte Back Pressure Flow
All 220.0 kPa 0.75 L/min

Mean Data: VR82 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2374866.4	107.4 %	%	0.06			0.06%
ScR 361.383	291380.8	106.1 %	%	0.87			0.82%
Ag 328.068†	-52.5	-0.00031 mg/L	mg/L	0.000317	-0.00063 mg/L	0.000634	100.62%
Al 308.215†	59607.8	43.93 mg/L	mg/L	0.140	87.86 mg/L	0.281	0.32%
As 188.979†	-88.7	0.02356 mg/L	mg/L	0.001473	0.04711 mg/L	0.002945	6.25%
B 249.677†	70.5	0.01070 mg/L	mg/L	0.001052	0.02140 mg/L	0.002105	9.83%
Ba 233.527†	1384.3	0.3386 mg/L	mg/L	0.00263	0.6773 mg/L	0.00527	0.78%
Be 313.042†	359.0	0.00063 mg/L	mg/L	0.000021	0.00125 mg/L	0.000043	3.41%
Ca 317.933†	202670.9	17.43 mg/L	mg/L	0.082	34.86 mg/L	0.164	0.47%
Cd 228.802†	73.2	0.00271 mg/L	mg/L	0.000088	0.00542 mg/L	0.000177	3.26%
Co 228.616†	1084.2	0.02591 mg/L	mg/L	0.000223	0.05182 mg/L	0.000445	0.86%
Cr 267.716†	704.5	0.1278 mg/L	mg/L	0.00087	0.2555 mg/L	0.00174	0.68%
Cu 324.752†	44769.1	0.2059 mg/L	mg/L	0.00126	0.4117 mg/L	0.00252	0.61%
Fe 273.955†	81635.6	69.42 mg/L	mg/L	0.441	138.8 mg/L	0.88	0.64%
K 766.490†	4146.4	2.445 mg/L	mg/L	0.0171	4.889 mg/L	0.0343	0.70%
Mg 279.077†	16938.2	14.88 mg/L	mg/L	0.149	29.77 mg/L	0.298	1.00%
Mn 257.610†	70859.3	2.163 mg/L	mg/L	0.0096	4.326 mg/L	0.0192	0.44%
Mo 202.031†	46.0	0.00246 mg/L	mg/L	0.000325	0.00492 mg/L	0.000649	13.19%
Na 589.592†	9917.4	0.9737 mg/L	mg/L	0.00359	1.947 mg/L	0.0072	0.37%
Na 330.237†	15.2	1.068 mg/L	mg/L	0.2577	2.137 mg/L	0.5155	24.12%
Ni 231.604†	393.6	0.1062 mg/L	mg/L	0.00061	0.2123 mg/L	0.00123	0.58%
Pb 220.353†	650.5	0.09913 mg/L	mg/L	0.000624	0.1983 mg/L	0.00125	0.63%
Sb 206.836†	4.5	0.00149 mg/L	mg/L	0.002759	0.00298 mg/L	0.005519	185.11%
Se 196.026†	3.1	0.00233 mg/L	mg/L	0.000240	0.00465 mg/L	0.000479	10.30%
Si 288.158†	9271.2	5.597 mg/L	mg/L	0.0472	11.19 mg/L	0.094	0.84%
Sn 189.927†	-9.1	-0.00020 mg/L	mg/L	0.001638	-0.00040 mg/L	0.003277	818.64%
Sr 421.552†	72470.9	0.09932 mg/L	mg/L	0.000328	0.1986 mg/L	0.00066	0.33%
Ti 334.903†	47164.9	2.852 mg/L	mg/L	0.0108	5.704 mg/L	0.0217	0.38%
Tl 190.801†	-2.4	0.00564 mg/L	mg/L	0.001162	0.01128 mg/L	0.002325	20.62%
V 292.402†	13821.2	0.1273 mg/L	mg/L	0.00046	0.2547 mg/L	0.00091	0.36%
Zn 206.200†	2138.7	0.6242 mg/L	mg/L	0.00591	1.248 mg/L	0.0118	0.95%

Sequence No.: 20
Sample ID: VR82 C SWC

Autosampler Location: 321
Date Collected: 11/27/2012 12:23:40 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 C SWC

Analyte Back Pressure Flow
All 218.0 kPa 0.75 L/min

Mean Data: VR82 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2361657.1	106.8	%	0.64			0.60%
ScR 361.383	290221.0	105.7	%	0.83			0.79%
Ag 328.068†	-205.5	-0.00129	mg/L	0.000106	-0.00258 mg/L	0.000213	8.24%
Al 308.215†	158872.8	117.1	mg/L	0.08	234.2 mg/L	0.16	0.07%
As 188.979†	-245.5	0.02731	mg/L	0.001583	0.05461 mg/L	0.003165	5.80%
B 249.677†	75.9	0.01146	mg/L	0.001139	0.02292 mg/L	0.002277	9.93%
Ba 233.527†	1711.9	0.4084	mg/L	0.00365	0.8168 mg/L	0.00730	0.89%
Be 313.042†	804.2	0.00140	mg/L	0.000031	0.00279 mg/L	0.000062	2.23%
Ca 317.933†	671666.4	57.76	mg/L	0.281	115.5 mg/L	0.56	0.49%
Cd 228.802†	58.2	0.00215	mg/L	0.000142	0.00430 mg/L	0.000285	6.62%
Co 228.616†	2208.8	0.05119	mg/L	0.000416	0.1024 mg/L	0.00083	0.81%
Cr 267.716†	1620.3	0.2925	mg/L	0.00094	0.5850 mg/L	0.00188	0.32%
Cu 324.752†	25822.5	0.1222	mg/L	0.00056	0.2445 mg/L	0.00113	0.46%
Fe 273.955†	175411.1	149.2	mg/L	0.84	298.3 mg/L	1.68	0.56%
K 766.490†	10533.1	6.210	mg/L	0.0099	12.42 mg/L	0.020	0.16%
Mg 279.077†	52399.8	46.08	mg/L	0.137	92.16 mg/L	0.275	0.30%
Mn 257.610†	74697.7	2.280	mg/L	0.0079	4.560 mg/L	0.0159	0.35%
Mo 202.031†	65.3	0.00313	mg/L	0.000463	0.00627 mg/L	0.000926	14.77%
Na 589.592†	41848.7	4.109	mg/L	0.0039	8.217 mg/L	0.0078	0.10%
Na 330.237†	71.4	4.295	mg/L	0.1773	8.589 mg/L	0.3547	4.13%
Ni 231.604†	921.9	0.2486	mg/L	0.00214	0.4973 mg/L	0.00427	0.86%
Pb 220.353†	138.3	0.04173	mg/L	0.001019	0.08346 mg/L	0.002037	2.44%
Sb 206.836†	18.4	0.00623	mg/L	0.003698	0.01246 mg/L	0.007396	59.34%
Se 196.026†	6.6	0.00492	mg/L	0.002906	0.00984 mg/L	0.005811	59.04%
Si 288.158†	7159.0	4.326	mg/L	0.0262	8.652 mg/L	0.0524	0.61%
Sn 189.927†	-50.9	-0.00740	mg/L	0.002374	-0.01480 mg/L	0.004747	32.08%
Sr 421.552†	187150.2	0.2565	mg/L	0.00025	0.5130 mg/L	0.00050	0.10%
Ti 334.903†	108984.0	6.589	mg/L	0.0077	13.18 mg/L	0.015	0.12%
Tl 190.801†	-14.3	0.00770	mg/L	0.002826	0.01540 mg/L	0.005651	36.70%
V 292.402†	33111.7	0.3053	mg/L	0.00109	0.6106 mg/L	0.00217	0.36%
Zn 206.200†	1400.7	0.4088	mg/L	0.00322	0.8175 mg/L	0.00645	0.79%

Sequence No.: 21
Sample ID: VR82 D SWC

Autosampler Location: 322
Date Collected: 11/27/2012 12:27:26 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 D SWC

Analyte Back Pressure Flow
All 220.0 kPa 0.75 L/min

Mean Data: VR82 D SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2375541.9	107.4	%	0.51				
ScR 361.383	292815.2	106.6	%	0.86				0.48%
Ag 328.068†	-56.4	-0.00033	mg/L	0.000176	-0.00067	mg/L	0.000352	0.81%
Al 308.215†	71961.3	53.04	mg/L	0.259	106.1	mg/L	0.52	52.80%
As 188.979†	-107.9	0.02569	mg/L	0.000820	0.05139	mg/L	0.001640	0.49%
B 249.677†	75.8	0.01151	mg/L	0.000666	0.02302	mg/L	0.001332	3.19%
Ba 233.527†	1432.8	0.3490	mg/L	0.00339	0.6979	mg/L	0.00679	5.79%
Be 313.042†	431.3	0.00075	mg/L	0.000011	0.00151	mg/L	0.00022	0.97%
Ca 317.933†	251103.1	21.59	mg/L	0.047	43.19	mg/L	0.095	1.48%
Cd 228.802†	66.0	0.00242	mg/L	0.000213	0.00484	mg/L	0.000425	0.22%
Co 228.616†	1360.2	0.03300	mg/L	0.000363	0.06599	mg/L	0.000726	8.79%
Cr 267.716†	827.3	0.1498	mg/L	0.00181	0.2996	mg/L	0.00361	1.10%
Cu 324.752†	26382.1	0.1227	mg/L	0.00043	0.2453	mg/L	0.00086	1.21%
Fe 273.955†	95677.7	81.35	mg/L	0.100	162.7	mg/L	0.20	0.35%
K 766.490†	4419.3	2.605	mg/L	0.0127	5.211	mg/L	0.0254	0.12%
Mg 279.077†	23466.7	20.63	mg/L	0.092	41.26	mg/L	0.184	0.49%
Mn 257.610†	59699.5	1.822	mg/L	0.0020	3.645	mg/L	0.0039	0.45%
Mo 202.031†	60.6	0.00326	mg/L	0.000170	0.00652	mg/L	0.000340	0.11%
Na 589.592†	10917.0	1.072	mg/L	0.0064	2.144	mg/L	0.0128	5.22%
Na 330.237†	14.7	1.207	mg/L	0.2480	2.415	mg/L	0.4959	0.60%
Ni 231.604†	494.2	0.1333	mg/L	0.00093	0.2666	mg/L	0.00185	20.54%
Pb 220.353†	630.4	0.09816	mg/L	0.001132	0.1963	mg/L	0.00226	0.70%
Sb 206.836†	6.7	0.00231	mg/L	0.001731	0.00462	mg/L	0.003461	1.15%
Se 196.026†	-0.8	-0.00073	mg/L	0.003852	-0.00147	mg/L	0.007703	74.98%
Si 288.158†	11684.9	7.054	mg/L	0.0425	14.11	mg/L	0.085	525.20%
Sn 189.927†	-4.8	0.00171	mg/L	0.001631	0.00343	mg/L	0.003262	0.60%
Sr 421.552†	95052.7	0.1303	mg/L	0.00048	0.2605	mg/L	0.00095	95.21%
Ti 334.903†	55678.0	3.367	mg/L	0.0105	6.733	mg/L	0.0210	0.36%
Tl 190.801†	-7.8	0.00421	mg/L	0.002041	0.00841	mg/L	0.004083	0.31%
V 292.402†	16714.9	0.1540	mg/L	0.00023	0.3080	mg/L	0.00045	48.53%
Zn 206.200†	1683.4	0.4913	mg/L	0.00390	0.9826	mg/L	0.00780	0.15%
								0.79%

Sequence No.: 22

Sample ID: VR82 E SWC

Autosampler Location: 323

Date Collected: 11/27/2012 12:31:25 PM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 E SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VR82 E SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2373263.9		107.3 %	0.38				0.36%
ScR 361.383	296102.6		107.8 %	1.19				1.10%
Ag 328.068†	-51.4	-0.00030	mg/L	0.000305	-0.00060	mg/L	0.000610	102.24%
Al 308.215†	74080.4	54.60	mg/L	0.826	109.2	mg/L	1.65	1.51%
As 188.979†	-104.8	0.02164	mg/L	0.000925	0.04329	mg/L	0.001850	4.27%
B 249.677†	72.2	0.01095	mg/L	0.000744	0.02190	mg/L	0.001488	6.79%
Ba 233.527†	1515.4	0.3694	mg/L	0.00355	0.7388	mg/L	0.00710	0.96%
Be 313.042†	443.4	0.00078	mg/L	0.000018	0.00156	mg/L	0.000036	2.32%
Ca 317.933†	215440.1	18.53	mg/L	0.289	37.06	mg/L	0.577	1.56%
Cd 228.802†	67.7	0.00245	mg/L	0.000072	0.00489	mg/L	0.000143	2.93%
Co 228.616†	1357.5	0.03329	mg/L	0.000150	0.06658	mg/L	0.000300	0.45%
Cr 267.716†	944.8	0.1712	mg/L	0.00170	0.3424	mg/L	0.00340	0.99%
Cu 324.752†	28041.8	0.1304	mg/L	0.00081	0.2608	mg/L	0.00163	0.62%
Fe 273.955†	99045.7	84.22	mg/L	1.022	168.4	mg/L	2.04	1.21%
K 766.490†	4365.7	2.574	mg/L	0.0360	5.148	mg/L	0.0721	1.40%
Mg 279.077†	21838.9	19.19	mg/L	0.191	38.39	mg/L	0.383	1.00%
Mn 257.610†	65334.1	1.994	mg/L	0.0256	3.989	mg/L	0.0512	1.28%
Mo 202.031†	57.5	0.00311	mg/L	0.000414	0.00622	mg/L	0.000828	13.32%
Na 589.592†	10240.2	1.005	mg/L	0.0179	2.011	mg/L	0.0359	1.79%
Na 330.237†	18.4	1.313	mg/L	0.1612	2.625	mg/L	0.3223	12.28%
Ni 231.604†	505.3	0.1363	mg/L	0.00197	0.2726	mg/L	0.00394	1.45%
Pb 220.353†	590.8	0.09286	mg/L	0.000792	0.1857	mg/L	0.00158	0.85%
Sb 206.836†	8.4	0.00248	mg/L	0.001486	0.00497	mg/L	0.002972	59.81%
Se 196.026†	-3.5	-0.00281	mg/L	0.004535	-0.00562	mg/L	0.009070	161.40%
Si 288.158†	10688.1	6.452	mg/L	0.0671	12.90	mg/L	0.134	1.04%
Sn 189.927†	-17.0	-0.00243	mg/L	0.000171	-0.00486	mg/L	0.000343	7.05%
Sr 421.552†	87932.6	0.1205	mg/L	0.00188	0.2410	mg/L	0.00376	1.56%
Ti 334.903†	52134.1	3.152	mg/L	0.0446	6.305	mg/L	0.0893	1.42%
Tl 190.801†	-9.8	0.00359	mg/L	0.000533	0.00719	mg/L	0.001066	14.83%
V 292.402†	17184.1	0.1586	mg/L	0.00098	0.3171	mg/L	0.00197	0.62%
Zn 206.200†	1676.8	0.4894	mg/L	0.00415	0.9787	mg/L	0.00831	0.85%

Sequence No.: 23

Autosampler Location: 7

Sample ID: CV 3

Date Collected: 11/27/2012 12:35:24 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2333586.5	105.5 %	0.78			0.74%
ScR 361.383	287417.7	104.6 %	1.47			1.41%
Ag 328.068†	154221.0	1.036 mg/L	0.0053	1.036 mg/L	0.0053	0.52%
Al 308.215†	2831.9	2.053 mg/L	0.0292	2.053 mg/L	0.0292	1.42%
As 188.979†	3182.9	2.070 mg/L	0.0170	2.070 mg/L	0.0170	0.82%
B 249.677†	6330.7	0.9665 mg/L	0.01195	0.9665 mg/L	0.01195	1.24%
Ba 233.527†	3973.0	1.004 mg/L	0.0164	1.004 mg/L	0.0164	1.63%
Be 313.042†	514271.1	0.9834 mg/L	0.02288	0.9834 mg/L	0.02288	2.33%
Ca 317.933†	23583.5	2.028 mg/L	0.0515	2.028 mg/L	0.0515	2.54%
Cd 228.802†	26220.5	1.027 mg/L	0.0045	1.027 mg/L	0.0045	0.43%
Co 228.616†	33848.9	1.008 mg/L	0.0039	1.008 mg/L	0.0039	0.39%
Cr 267.716†	5659.8	1.018 mg/L	0.0124	1.018 mg/L	0.0124	1.22%
Cu 324.752†	224015.3	1.018 mg/L	0.0071	1.018 mg/L	0.0071	0.69%
Fe 273.955†	2558.1	2.168 mg/L	0.0232	2.168 mg/L	0.0232	1.07%
K 766.490†	34177.1	20.15 mg/L	0.521	20.15 mg/L	0.521	2.59%
Mg 279.077†	2389.7	2.112 mg/L	0.0315	2.112 mg/L	0.0315	1.49%
Mn 257.610†	32221.2	0.9838 mg/L	0.02221	0.9838 mg/L	0.02221	2.26%
Mo 202.031†	17855.8	1.031 mg/L	0.0064	1.031 mg/L	0.0064	0.62%
Na 589.592†	492087.7	48.31 mg/L	1.188	48.31 mg/L	1.188	2.46%
Na 330.237†	1303.1	53.36 mg/L	0.717	53.36 mg/L	0.717	1.34%
Ni 231.604†	3651.8	0.9851 mg/L	0.01657	0.9851 mg/L	0.01657	1.68%
Pb 220.353†	14259.1	2.007 mg/L	0.0042	2.007 mg/L	0.0042	0.21%
Sb 206.836†	6192.6	2.184 mg/L	0.0149	2.184 mg/L	0.0149	0.68%
Se 196.026†	2611.8	2.027 mg/L	0.0088	2.027 mg/L	0.0088	0.43%
Si 288.158†	3718.5	2.243 mg/L	0.0336	2.243 mg/L	0.0336	1.50%
Sn 189.927†	3475.8	1.059 mg/L	0.0076	1.059 mg/L	0.0076	0.72%
Sr 421.552†	698206.5	0.9569 mg/L	0.02314	0.9569 mg/L	0.02314	2.42%
Ti 334.903†	18008.4	1.088 mg/L	0.0270	1.088 mg/L	0.0270	2.48%
Tl 190.801†	4316.9	2.012 mg/L	0.0118	2.012 mg/L	0.0118	0.58%
V 292.402†	107333.8	1.018 mg/L	0.0048	1.018 mg/L	0.0048	0.47%
Zn 206.200†	3552.5	1.037 mg/L	0.0144	1.037 mg/L	0.0144	1.39%

Sequence No.: 24

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 11/27/2012 12:40:28 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2326126.8	105.2 %	%	0.35			0.33%
ScR 361.383	285643.8	104.0 %	%	0.86			0.82%
Ag 328.068†	-11.7	-0.00008 mg/L	mg/L	0.000065	-0.00008 mg/L	0.000065	82.54%
Al 308.215†	3.2	0.00231 mg/L	mg/L	0.001989	0.00231 mg/L	0.001989	86.13%
As 188.979†	2.7	0.00174 mg/L	mg/L	0.000982	0.00174 mg/L	0.000982	56.43%
B 249.677†	5.8	0.00088 mg/L	mg/L	0.000784	0.00088 mg/L	0.000784	88.61%
Ba 233.527†	3.6	0.00091 mg/L	mg/L	0.000266	0.00091 mg/L	0.000266	29.27%
Be 313.042†	23.4	0.00004 mg/L	mg/L	0.000043	0.00004 mg/L	0.000043	95.64%
Ca 317.933†	7.3	0.00063 mg/L	mg/L	0.001253	0.00063 mg/L	0.001253	200.20%
Cd 228.802†	-0.3	-0.00002 mg/L	mg/L	0.000189	-0.00002 mg/L	0.000189	827.74%
Co 228.616†	2.1	0.00006 mg/L	mg/L	0.000117	0.00006 mg/L	0.000117	186.71%
Cr 267.716†	3.6	0.00065 mg/L	mg/L	0.000759	0.00065 mg/L	0.000759	117.37%
Cu 324.752†	-138.2	-0.00063 mg/L	mg/L	0.000136	-0.00063 mg/L	0.000136	21.65%
Fe 273.955†	2.9	0.00242 mg/L	mg/L	0.001470	0.00242 mg/L	0.001470	60.65%
K 766.490†	-28.7	-0.01693 mg/L	mg/L	0.013636	-0.01693 mg/L	0.013636	80.56%
Mg 279.077†	-2.9	-0.00258 mg/L	mg/L	0.006385	-0.00258 mg/L	0.006385	247.92%
Mn 257.610†	5.7	0.00017 mg/L	mg/L	0.000030	0.00017 mg/L	0.000030	17.49%
Mo 202.031†	12.4	0.00071 mg/L	mg/L	0.000214	0.00071 mg/L	0.000214	30.00%
Na 589.592†	30.9	0.00303 mg/L	mg/L	0.005370	0.00303 mg/L	0.005370	177.30%
Na 330.237†	2.7	0.1100 mg/L	mg/L	0.22306	0.1100 mg/L	0.22306	202.75%
Ni 231.604†	5.2	0.00139 mg/L	mg/L	0.001312	0.00139 mg/L	0.001312	94.16%
Pb 220.353†	4.3	0.00061 mg/L	mg/L	0.000634	0.00061 mg/L	0.000634	104.07%
Sb 206.836†	6.4	0.00225 mg/L	mg/L	0.001474	0.00225 mg/L	0.001474	65.49%
Se 196.026†	-7.8	-0.00603 mg/L	mg/L	0.003677	-0.00603 mg/L	0.003677	60.94%
Si 288.158†	1.8	0.00110 mg/L	mg/L	0.003970	0.00110 mg/L	0.003970	360.95%
Sn 189.927†	3.8	0.00116 mg/L	mg/L	0.000308	0.00116 mg/L	0.000308	26.54%
Sr 421.552†	83.9	0.00012 mg/L	mg/L	0.000035	0.00012 mg/L	0.000035	30.10%
Ti 334.903†	3.7	0.00022 mg/L	mg/L	0.001865	0.00022 mg/L	0.001865	830.48%
Tl 190.801†	7.6	0.00357 mg/L	mg/L	0.000719	0.00357 mg/L	0.000719	20.14%
V 292.402†	14.1	0.00014 mg/L	mg/L	0.000228	0.00014 mg/L	0.000228	167.95%
Zn 206.200†	1.3	0.00037 mg/L	mg/L	0.000110	0.00037 mg/L	0.000110	29.51%

Sequence No.: 25

Sample ID: VR82 F SWC

Autosampler Location: 324

Date Collected: 11/27/2012 12:44:42 PM

Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 F SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VR82 F SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2391278.6		108.2 %	0.48				0.45%
ScR 361.383	294393.7		107.2 %	3.78				3.53%
Ag 328.068†	-86.3	-0.00053	mg/L	0.000177	-0.00106	mg/L	0.000354	33.29%
Al 308.215†	68483.7		50.47 mg/L	2.217	100.9	mg/L	4.43	4.39%
As 188.979†	-89.8	0.02925	mg/L	0.003557	0.05850	mg/L	0.007114	12.16%
B 249.677†	74.8	0.01135	mg/L	0.001007	0.02270	mg/L	0.002014	8.87%
Ba 233.527†	1360.8	0.3307	mg/L	0.01193	0.6614	mg/L	0.02386	3.61%
Be 313.042†	461.8	0.00081	mg/L	0.000062	0.00163	mg/L	0.000123	7.58%
Ca 317.933†	249940.0		21.49 mg/L	0.950	42.99	mg/L	1.900	4.42%
Cd 228.802†	52.1	0.00179	mg/L	0.000083	0.00358	mg/L	0.000166	4.64%
Co 228.616†	1441.2	0.03595	mg/L	0.000267	0.07191	mg/L	0.000534	0.74%
Cr 267.716†	800.8	0.1450	mg/L	0.00409	0.2900	mg/L	0.00817	2.82%
Cu 324.752†	21642.5	0.1012	mg/L	0.00051	0.2024	mg/L	0.00102	0.50%
Fe 273.955†	96177.2		81.78 mg/L	3.551	163.6	mg/L	7.10	4.34%
K 766.490†	4300.3		2.535 mg/L	0.1332	5.071	mg/L	0.2664	5.25%
Mg 279.077†	24138.1		21.22 mg/L	0.754	42.44	mg/L	1.508	3.55%
Mn 257.610†	63345.6		1.934 mg/L	0.0864	3.867	mg/L	0.1727	4.47%
Mo 202.031†	55.5	0.00296	mg/L	0.000313	0.00593	mg/L	0.000625	10.55%
Na 589.592†	9715.6		0.9539 mg/L	0.03603	1.908	mg/L	0.0721	3.78%
Na 330.237†	12.4	1.067	mg/L	0.1562	2.134	mg/L	0.3123	14.64%
Ni 231.604†	519.0	0.1400	mg/L	0.00368	0.2800	mg/L	0.00737	2.63%
Pb 220.353†	463.3	0.07403	mg/L	0.000054	0.1481	mg/L	0.00011	0.07%
Sb 206.836†	12.0	0.00411	mg/L	0.000563	0.00822	mg/L	0.001125	13.68%
Se 196.026†	0.5	0.00029	mg/L	0.003416	0.00057	mg/L	0.006831	>999.9%
Si 288.158†	12567.8		7.587 mg/L	0.2692	15.17	mg/L	0.538	3.55%
Sn 189.927†	-15.2	-0.00152	mg/L	0.001564	-0.00305	mg/L	0.003127	102.63%
Sr 421.552†	98433.0		0.1349 mg/L	0.00581	0.2698	mg/L	0.01162	4.31%
Ti 334.903†	51011.5		3.084 mg/L	0.1357	6.169	mg/L	0.2713	4.40%
Tl 190.801†	-6.6	0.00482	mg/L	0.000988	0.00964	mg/L	0.001976	20.50%
V 292.402†	17357.8		0.1602 mg/L	0.00087	0.3204	mg/L	0.00175	0.55%
Zn 206.200†	1491.7		0.4353 mg/L	0.01623	0.8707	mg/L	0.03247	3.73%

Sequence No.: 26

Sample ID: VR82 G SWC

Autosampler Location: 325

Date Collected: 11/27/2012 12:48:42 PM

Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 G SWC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: VR82 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std. Dev.	RSD
ScA 357.253	2335922.2	105.7 %	%	0.59			0.56%
ScR 361.383	292039.2	106.3 %	%	1.93			1.81%
Ag 328.068†	-62.2	-0.00037 mg/L	mg/L	0.000186	-0.00073 mg/L	0.000371	50.56%
Al 308.215†	73400.5	54.10 mg/L	mg/L	1.217	108.2 mg/L	2.43	2.25%
As 188.979†	-98.3	0.02764 mg/L	mg/L	0.004839	0.05527 mg/L	0.009677	17.51%
B 249.677†	75.6	0.01146 mg/L	mg/L	0.000636	0.02293 mg/L	0.001271	5.54%
Ba 233.527†	1473.9	0.3587 mg/L	mg/L	0.00507	0.7174 mg/L	0.01014	1.41%
Be 313.042†	506.1	0.00089 mg/L	mg/L	0.000041	0.00179 mg/L	0.000082	4.57%
Ca 317.933†	252841.3	21.74 mg/L	mg/L	0.522	43.49 mg/L	1.045	2.40%
Cd 228.802†	60.8	0.00215 mg/L	mg/L	0.000205	0.00429 mg/L	0.000410	9.54%
Co 228.616†	1524.4	0.03813 mg/L	mg/L	0.000685	0.07626 mg/L	0.001370	1.80%
Cr 267.716†	882.2	0.1596 mg/L	mg/L	0.00302	0.3193 mg/L	0.00604	1.89%
Cu 324.752†	21703.6	0.1016 mg/L	mg/L	0.00061	0.2032 mg/L	0.00122	0.60%
Fe 273.955†	100298.5	85.28 mg/L	mg/L	2.182	170.6 mg/L	4.36	2.56%
K 766.490†	4601.5	2.713 mg/L	mg/L	0.0709	5.426 mg/L	0.1418	2.61%
Mg 279.077†	25942.0	22.81 mg/L	mg/L	0.440	45.62 mg/L	0.880	1.93%
Mn 257.610†	64506.2	1.969 mg/L	mg/L	0.0462	3.938 mg/L	0.0923	2.34%
Mo 202.031†	53.6	0.00285 mg/L	mg/L	0.000347	0.00570 mg/L	0.000694	12.18%
Na 589.592†	10077.3	0.9894 mg/L	mg/L	0.01800	1.979 mg/L	0.0360	1.82%
Na 330.237†	9.9	0.9941 mg/L	mg/L	0.24020	1.988 mg/L	0.4804	24.16%
Ni 231.604†	550.1	0.1484 mg/L	mg/L	0.00369	0.2967 mg/L	0.00738	2.49%
Pb 220.353†	462.6	0.07468 mg/L	mg/L	0.000422	0.1494 mg/L	0.00084	0.56%
Sb 206.836†	10.8	0.00357 mg/L	mg/L	0.002177	0.00714 mg/L	0.004354	60.95%
Se 196.026†	3.9	0.00289 mg/L	mg/L	0.001297	0.00578 mg/L	0.002593	44.86%
Si 288.158†	12600.8	7.607 mg/L	mg/L	0.1365	15.21 mg/L	0.273	1.80%
Sn 189.927†	-19.1	-0.00264 mg/L	mg/L	0.001729	-0.00529 mg/L	0.003458	65.41%
Sr 421.552†	101608.0	0.1393 mg/L	mg/L	0.00300	0.2785 mg/L	0.00600	2.15%
Ti 334.903†	53250.0	3.220 mg/L	mg/L	0.0748	6.440 mg/L	0.1497	2.32%
Tl 190.801†	-9.2	0.00388 mg/L	mg/L	0.002385	0.00776 mg/L	0.004769	61.48%
V 292.402†	18616.6	0.1720 mg/L	mg/L	0.00115	0.3439 mg/L	0.00231	0.67%
Zn 206.200†	1512.3	0.4413 mg/L	mg/L	0.00822	0.8827 mg/L	0.01644	1.86%

Sequence No.: 27
 Sample ID: VR82 H SWC

Autosampler Location: 326
 Date Collected: 11/27/2012 12:52:41 PM
 Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 H SWC

Analyte Back Pressure Flow
 All 219.0 kPa 0.75 L/min

Mean Data: VR82 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2337058.6	105.7 %		0.17			
ScR 361.383	290799.7	105.9 %		0.83			0.16%
Ag 328.068†	-69.5	-0.00041 mg/L		0.000320	-0.00082 mg/L	0.000640	0.78%
Al 308.215†	89294.4	65.81 mg/L		0.968	131.6 mg/L	1.94	78.24%
As 188.979†	-124.5	0.03025 mg/L		0.003133	0.06050 mg/L	0.006266	1.47%
B 249.677†	88.9	0.01348 mg/L		0.000753	0.02697 mg/L	0.001506	10.36%
Ba 233.527†	1612.3	0.3915 mg/L		0.00324	0.7831 mg/L	0.00647	5.58%
Be 313.042†	578.5	0.00102 mg/L		0.000004	0.00204 mg/L	0.000008	0.83%
Ca 317.933†	271388.7	23.34 mg/L		0.351	46.68 mg/L	0.703	0.38%
Cd 228.802†	70.4	0.00253 mg/L		0.000067	0.00507 mg/L	0.000134	1.51%
Co 228.616†	1707.4	0.04209 mg/L		0.000135	0.08418 mg/L	0.000270	2.64%
Cr 267.716†	1054.0	0.1907 mg/L		0.00072	0.3814 mg/L	0.00143	0.32%
Cu 324.752†	25046.8	0.1172 mg/L		0.00041	0.2344 mg/L	0.00082	0.38%
Fe 273.955†	115886.4	98.54 mg/L		1.501	197.1 mg/L	3.00	0.35%
K 766.490†	5339.0	3.148 mg/L		0.0452	6.295 mg/L	0.0904	1.52%
Mg 279.077†	30279.0	26.62 mg/L		0.227	53.24 mg/L	0.455	1.44%
Mn 257.610†	67857.8	2.071 mg/L		0.0322	4.143 mg/L	0.0644	0.85%
Mo 202.031†	63.0	0.00338 mg/L		0.000295	0.00675 mg/L	0.000591	1.55%
Na 589.592†	12176.1	1.195 mg/L		0.0174	2.391 mg/L	0.0348	8.75%
Na 330.237†	8.8	1.089 mg/L		0.1591	2.177 mg/L	0.3182	1.46%
Ni 231.604†	633.6	0.1709 mg/L		0.00072	0.3417 mg/L	0.00145	14.61%
Pb 220.353†	569.7	0.09205 mg/L		0.001612	0.1841 mg/L	0.00322	0.42%
Sb 206.836†	13.4	0.00441 mg/L		0.003088	0.00882 mg/L	0.006176	1.75%
Se 196.026†	-3.2	-0.00260 mg/L		0.004337	-0.00520 mg/L	0.008674	70.05%
Si 288.158†	13838.7	8.354 mg/L		0.0726	16.71 mg/L	0.145	166.89%
Sn 189.927†	-27.2	-0.00481 mg/L		0.001021	-0.00962 mg/L	0.002041	0.87%
Sr 421.552†	107591.6	0.1475 mg/L		0.00198	0.2949 mg/L	0.00397	21.23%
Ti 334.903†	64583.4	3.905 mg/L		0.0600	7.811 mg/L	0.1200	1.34%
Tl 190.801†	-12.3	0.00372 mg/L		0.000308	0.00745 mg/L	0.000615	1.54%
V 292.402†	21304.0	0.1966 mg/L		0.00074	0.3932 mg/L	0.00147	8.26%
Zn 206.200†	1674.8	0.4888 mg/L		0.00410	0.9776 mg/L	0.00821	0.37%
							0.84%

Sequence No.: 28

Sample ID: VR82 I SWC

Autosampler Location: 327

Date Collected: 11/27/2012 12:56:40 PM

Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 I SWC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: VR82 I SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2335660.1	105.6	%	0.52				0.50%
ScR 361.383	287700.9	104.7	%	0.52				0.49%
Ag 328.068†	-62.5	-0.00037	mg/L	0.000291	-0.00074	mg/L	0.000582	78.88%
Al 308.215†	79115.5	58.31	mg/L	0.171	116.6	mg/L	0.34	0.29%
As 188.979†	-111.7	0.02660	mg/L	0.002995	0.05319	mg/L	0.005990	11.26%
B 249.677†	68.6	0.01040	mg/L	0.001272	0.02080	mg/L	0.002545	12.23%
Ba 233.527†	1459.2	0.3547	mg/L	0.00177	0.7094	mg/L	0.00354	0.50%
Be 313.042†	526.3	0.00093	mg/L	0.000030	0.00186	mg/L	0.000060	3.25%
Ca 317.933†	253064.4	21.76	mg/L	0.126	43.53	mg/L	0.253	0.58%
Cd 228.802†	61.7	0.00222	mg/L	0.000094	0.00445	mg/L	0.000188	4.23%
Co 228.616†	1444.5	0.03521	mg/L	0.000281	0.07041	mg/L	0.000561	0.80%
Cr 267.716†	948.2	0.1716	mg/L	0.00140	0.3432	mg/L	0.00279	0.81%
Cu 324.752†	22584.8	0.1056	mg/L	0.000034	0.2112	mg/L	0.000068	0.32%
Fe 273.955†	102386.4	87.06	mg/L	0.474	174.1	mg/L	0.95	0.54%
K 766.490†	4948.2	2.917	mg/L	0.0270	5.835	mg/L	0.0540	0.93%
Mg 279.077†	26309.8	23.13	mg/L	0.243	46.26	mg/L	0.485	1.05%
Mn 257.610†	58600.1	1.789	mg/L	0.0083	3.578	mg/L	0.0166	0.46%
Mo 202.031†	55.7	0.00297	mg/L	0.000403	0.00594	mg/L	0.000807	13.57%
Na 589.592†	10744.2	1.055	mg/L	0.0024	2.110	mg/L	0.0047	0.22%
Na 330.237†	10.2	1.062	mg/L	0.2744	2.124	mg/L	0.5487	25.84%
Ni 231.604†	549.9	0.1483	mg/L	0.00264	0.2966	mg/L	0.00528	1.78%
Pb 220.353†	524.3	0.08431	mg/L	0.000320	0.1686	mg/L	0.00064	0.38%
Sb 206.836†	4.3	0.00120	mg/L	0.000972	0.00240	mg/L	0.001944	80.95%
Se 196.026†	5.4	0.00409	mg/L	0.003098	0.00819	mg/L	0.006197	75.69%
Si 288.158†	14013.2	8.459	mg/L	0.0826	16.92	mg/L	0.165	0.98%
Sn 189.927†	-24.9	-0.00437	mg/L	0.002583	-0.00874	mg/L	0.005166	59.08%
Sr 421.552†	99156.5	0.1359	mg/L	0.00039	0.2718	mg/L	0.00078	0.29%
Ti 334.903†	57646.9	3.486	mg/L	0.0145	6.972	mg/L	0.0290	0.42%
Tl 190.801†	-10.0	0.00372	mg/L	0.002943	0.00743	mg/L	0.005887	79.20%
V 292.402†	18837.9	0.1739	mg/L	0.00012	0.3477	mg/L	0.00023	0.07%
Zn 206.200†	1567.9	0.4576	mg/L	0.00453	0.9151	mg/L	0.00906	0.99%

Sequence No.: 29

Sample ID: CV 4

Autosampler Location: 7

Date Collected: 11/27/2012 1:00:39 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2275044.8	102.9 %	0.79			0.77%
ScR 361.383	278400.2	101.4 %	1.32			1.30%
Ag 328.068†	158241.3	1.063 mg/L	0.0067	1.063 mg/L	0.0067	0.63%
Al 308.215†	2956.0	2.143 mg/L	0.0269	2.143 mg/L	0.0269	1.25%
As 188.979†	3266.2	2.125 mg/L	0.0082	2.125 mg/L	0.0082	0.38%
B 249.677†	6586.4	1.006 mg/L	0.0140	1.006 mg/L	0.0140	1.39%
Ba 233.527†	4122.5	1.042 mg/L	0.0141	1.042 mg/L	0.0141	1.35%
Be 313.042†	527548.6	1.009 mg/L	0.0150	1.009 mg/L	0.0150	1.49%
Ca 317.933†	24470.1	2.104 mg/L	0.0317	2.104 mg/L	0.0317	1.51%
Cd 228.802†	26917.2	1.055 mg/L	0.0091	1.055 mg/L	0.0091	0.86%
Co 228.616†	34648.6	1.032 mg/L	0.0095	1.032 mg/L	0.0095	0.92%
Cr 267.716†	5872.5	1.056 mg/L	0.0142	1.056 mg/L	0.0142	1.35%
Cu 324.752†	230766.8	1.049 mg/L	0.0071	1.049 mg/L	0.0071	0.68%
Fe 273.955†	2652.9	2.249 mg/L	0.0284	2.249 mg/L	0.0284	1.26%
K 766.490†	35715.5	21.06 mg/L	0.234	21.06 mg/L	0.234	1.11%
Mg 279.077†	2474.5	2.187 mg/L	0.0317	2.187 mg/L	0.0317	1.45%
Mn 257.610†	33447.1	1.021 mg/L	0.0129	1.021 mg/L	0.0129	1.26%
Mo 202.031†	18276.3	1.055 mg/L	0.0101	1.055 mg/L	0.0101	0.96%
Na 589.592†	514232.0	50.49 mg/L	0.811	50.49 mg/L	0.811	1.61%
Na 330.237†	1346.6	55.14 mg/L	0.829	55.14 mg/L	0.829	1.50%
Ni 231.604†	3790.5	1.023 mg/L	0.0140	1.023 mg/L	0.0140	1.37%
Pb 220.353†	14600.0	2.055 mg/L	0.0186	2.055 mg/L	0.0186	0.90%
Sb 206.836†	6376.4	2.249 mg/L	0.0127	2.249 mg/L	0.0127	0.57%
Se 196.026†	2669.4	2.072 mg/L	0.0162	2.072 mg/L	0.0162	0.78%
Si 288.158†	3857.8	2.327 mg/L	0.0321	2.327 mg/L	0.0321	1.38%
Sn 189.927†	3557.0	1.084 mg/L	0.0081	1.084 mg/L	0.0081	0.75%
Sr 421.552†	729571.3	0.9999 mg/L	0.01459	0.9999 mg/L	0.01459	1.46%
Ti 334.903†	18699.2	1.130 mg/L	0.0158	1.130 mg/L	0.0158	1.39%
Tl 190.801†	4426.7	2.063 mg/L	0.0100	2.063 mg/L	0.0100	0.49%
V 292.402†	110019.5	1.043 mg/L	0.0066	1.043 mg/L	0.0066	0.63%
Zn 206.200†	3657.3	1.067 mg/L	0.0156	1.067 mg/L	0.0156	1.46%

User canceled analysis.

=====
Analysis Begun

Start Time: 11/27/2012 1:06:04 PM Plasma On Time: 11/27/2012 8:08:35 AM
Logged In Analyst: Metals Technique: ICP Continuous
Spectrometer: Optima 7300 DV, S/N 077C8121202 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif
Batch ID:
Results Data Set: I2121127
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 304
Sample ID: VR58 MB1 SWC Date Collected: 11/27/2012 1:06:05 PM
Dilution: 2.000000X Data Type: Original
User canceled analysis.

11-29-12

=====
Analysis Begun

Start Time: 11/27/2012 1:07:01 PM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 11/27/2012 1:07:08 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Units	Std.Dev.	RSD
ScA 357.253	2282680.6	103.2	%	0.07				0.07%
ScR 361.383	281374.2	102.4	%	1.92				1.87%
Ag 328.068†	157748.0	1.060	mg/L	0.0020	1.060	mg/L	0.0020	0.19%
Al 308.215†	2913.6	2.112	mg/L	0.0420	2.112	mg/L	0.0420	1.99%
As 188.979†	3259.1	2.120	mg/L	0.0085	2.120	mg/L	0.0085	0.40%
B 249.677†	6524.1	0.9960	mg/L	0.01742	0.9960	mg/L	0.01742	1.75%
Ba 233.527†	4082.4	1.032	mg/L	0.0157	1.032	mg/L	0.0157	1.52%
Be 313.042†	529818.7	1.013	mg/L	0.0199	1.013	mg/L	0.0199	1.96%
Ca 317.933†	24257.6	2.086	mg/L	0.0384	2.086	mg/L	0.0384	1.84%
Cd 228.802†	26920.0	1.055	mg/L	0.0023	1.055	mg/L	0.0023	0.22%
Co 228.616†	34680.4	1.033	mg/L	0.0051	1.033	mg/L	0.0051	0.49%
Cr 267.716†	5822.8	1.047	mg/L	0.0165	1.047	mg/L	0.0165	1.57%
Cu 324.752†	229827.7	1.044	mg/L	0.0026	1.044	mg/L	0.0026	0.25%
Fe 273.955†	2621.3	2.222	mg/L	0.0385	2.222	mg/L	0.0385	1.73%
K 766.490†	35224.3	20.77	mg/L	0.470	20.77	mg/L	0.470	2.26%
Mg 279.077†	2447.7	2.164	mg/L	0.0403	2.164	mg/L	0.0403	1.86%
Mn 257.610†	33165.5	1.013	mg/L	0.0207	1.013	mg/L	0.0207	2.04%
Mo 202.031†	18312.9	1.058	mg/L	0.0031	1.058	mg/L	0.0031	0.30%
Na 589.592†	505727.6	49.65	mg/L	0.996	49.65	mg/L	0.996	2.01%
Na 330.237†	1339.3	54.84	mg/L	0.866	54.84	mg/L	0.866	1.58%
Ni 231.604†	3745.0	1.010	mg/L	0.0150	1.010	mg/L	0.0150	1.49%
Pb 220.353†	14581.4	2.053	mg/L	0.0062	2.053	mg/L	0.0062	0.30%
Sb 206.836†	6347.9	2.239	mg/L	0.0076	2.239	mg/L	0.0076	0.34%
Se 196.026†	2670.3	2.073	mg/L	0.0082	2.073	mg/L	0.0082	0.40%
Si 288.158†	3813.2	2.300	mg/L	0.0479	2.300	mg/L	0.0479	2.08%
Sn 189.927†	3552.7	1.082	mg/L	0.0043	1.082	mg/L	0.0043	0.39%
Sr 421.552†	718434.7	0.9846	mg/L	0.01874	0.9846	mg/L	0.01874	1.90%
Ti 334.903†	18518.3	1.119	mg/L	0.0214	1.119	mg/L	0.0214	1.91%
Tl 190.801†	4422.9	2.061	mg/L	0.0054	2.061	mg/L	0.0054	0.26%
V 292.402†	109790.9	1.041	mg/L	0.0029	1.041	mg/L	0.0029	0.27%
Zn 206.200†	3640.9	1.062	mg/L	0.0201	1.062	mg/L	0.0201	1.89%

Sequence No.: 2

Sample ID: CB 4

Autosampler Location: 1

Date Collected: 11/27/2012 1:12:17 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2301991.2	104.1	%	0.23			0.22%
ScR 361.383	282876.7	103.0	%	0.71			0.69%
Ag 328.068†	26.5	0.00018	mg/L	0.000171	0.00018 mg/L	0.000171	95.88%
Al 308.215†	-1.0	-0.00078	mg/L	0.002136	-0.00078 mg/L	0.002136	273.60%
As 188.979†	-0.9	-0.00055	mg/L	0.001588	-0.00055 mg/L	0.001588	287.12%
B 249.677†	9.4	0.00143	mg/L	0.000853	0.00143 mg/L	0.000853	59.58%
Ba 233.527†	-1.0	-0.00025	mg/L	0.000592	-0.00025 mg/L	0.000592	235.91%
Be 313.042†	29.3	0.00006	mg/L	0.000059	0.00006 mg/L	0.000059	105.42%
Ca 317.933†	-0.1	-0.00001	mg/L	0.000303	-0.00001 mg/L	0.000303	>999.9%
Cd 228.802†	1.8	0.00008	mg/L	0.000113	0.00008 mg/L	0.000113	148.72%
Co 228.616†	2.0	0.00006	mg/L	0.000204	0.00006 mg/L	0.000204	355.32%
Cr 267.716†	1.1	0.00019	mg/L	0.000539	0.00019 mg/L	0.000539	279.64%
Cu 324.752†	-140.0	-0.00064	mg/L	0.000056	-0.00064 mg/L	0.000056	8.79%
Fe 273.955†	0.5	0.00046	mg/L	0.001731	0.00046 mg/L	0.001731	378.16%
K 766.490†	-28.2	-0.01660	mg/L	0.011198	-0.01660 mg/L	0.011198	67.45%
Mg 279.077†	4.0	0.00351	mg/L	0.010039	0.00351 mg/L	0.010039	285.92%
Mn 257.610†	10.8	0.00033	mg/L	0.000127	0.00033 mg/L	0.000127	38.36%
Mo 202.031†	15.1	0.00087	mg/L	0.000211	0.00087 mg/L	0.000211	24.17%
Na 589.592†	19.7	0.00193	mg/L	0.001653	0.00193 mg/L	0.001653	85.50%
Na 330.237†	-1.2	-0.05058	mg/L	0.701219	-0.05058 mg/L	0.701219	>999.9%
Ni 231.604†	0.3	0.00008	mg/L	0.000523	0.00008 mg/L	0.000523	643.31%
Pb 220.353†	11.8	0.00165	mg/L	0.000783	0.00165 mg/L	0.000783	47.33%
Sb 206.836†	8.8	0.00309	mg/L	0.001170	0.00309 mg/L	0.001170	37.82%
Se 196.026†	-4.1	-0.00320	mg/L	0.003559	-0.00320 mg/L	0.003559	111.18%
Si 288.158†	6.9	0.00419	mg/L	0.002748	0.00419 mg/L	0.002748	65.55%
Sn 189.927†	1.3	0.00039	mg/L	0.000648	0.00039 mg/L	0.000648	166.51%
Sr 421.552†	72.8	0.00010	mg/L	0.000033	0.00010 mg/L	0.000033	32.93%
Ti 334.903†	7.2	0.00044	mg/L	0.000296	0.00044 mg/L	0.000296	67.77%
Tl 190.801†	4.1	0.00194	mg/L	0.001633	0.00194 mg/L	0.001633	84.38%
V 292.402†	1.9	0.00002	mg/L	0.000178	0.00002 mg/L	0.000178	935.27%
Zn 206.200†	2.0	0.00059	mg/L	0.000588	0.00059 mg/L	0.000588	98.95%

=====
Analysis Begun

Start Time: 11/27/2012 1:22:48 PM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: STD4

Date Collected: 11/27/2012 1:22:49 PM

Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2349239.7	14580.43	0.62%	106.3	%
ScR 361.383	289414.2	2164.64	0.75%	105.4	%
Mo 202.031†	175855.3	1839.47	1.05%	[10]	mg/L
Sb 206.836†	28628.7	298.50	1.04%	[10]	mg/L
Si 288.158†	17434.8	167.10	0.96%	[10]	mg/L
Sn 189.927†	33909.1	301.80	0.89%	[10]	mg/L
Ti 334.903†	175643.1	203.15	0.12%	[10]	mg/L

Sequence No.: 2

Sample ID: STD5

Date Collected: 11/27/2012 1:25:04 PM

Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
ScA 357.253	2158212.8	19942.70	0.92%	97.62 %	
ScR 361.383	282290.3	2473.21	0.88%	102.8 %	
Al 308.215†	41737.6	538.25	1.29%	[30] mg/L	
Ca 317.933†	365386.7	4892.01	1.34%	[30] mg/L	
Fe 273.955†	124443.3	1759.60	1.41%	[100] mg/L	
K 766.490†	174123.8	983.83	0.57%	[100] mg/L	
Mg 279.077†	35484.4	439.16	1.24%	[30] mg/L	
Na 330.237†	2498.7	30.72	1.23%	[100] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	148900	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1391	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1558	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	6544	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3955	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	522800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	12180	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	25210	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	33490	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	5559	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	220000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1244	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1741	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1183	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	32760	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	17590	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	10190	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	24.99	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	3708	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7107	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2863	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1288	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1743	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3391	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	729700	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	17560	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2137	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	105900	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3426	0.00000	1.000000	

=====
Analysis Begun

Start Time: 11/27/2012 1:29:03 PM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/27/2012 8:08:35 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
 Sequence No.: 1

Sample ID: CV 6

Autosampler Location: 7

Date Collected: 11/27/2012 1:29:04 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2266619.2	102.5 %	0.23			0.23%
ScR 361.383	281223.5	102.4 %	1.47			1.44%
Ag 328.068†	151922.0	1.021 mg/L	0.0023	1.021 mg/L	0.0023	0.22%
Al 308.215†	2905.6	2.053 mg/L	0.0324	2.053 mg/L	0.0324	1.58%
As 188.979†	3258.5	2.118 mg/L	0.0109	2.118 mg/L	0.0109	0.52%
B 249.677†	6498.2	0.9921 mg/L	0.01422	0.9921 mg/L	0.01422	1.43%
Ba 233.527†	4064.2	1.027 mg/L	0.0159	1.027 mg/L	0.0159	1.55%
Be 313.042†	529899.8	1.013 mg/L	0.0165	1.013 mg/L	0.0165	1.63%
Ca 317.933†	24234.7	1.990 mg/L	0.0367	1.990 mg/L	0.0367	1.84%
Cd 228.802†	26806.1	1.050 mg/L	0.0008	1.050 mg/L	0.0008	0.08%
Co 228.616†	34492.8	1.028 mg/L	0.0005	1.028 mg/L	0.0005	0.05%
Cr 267.716†	5807.5	1.044 mg/L	0.0108	1.044 mg/L	0.0108	1.03%
Cu 324.752†	223774.1	1.017 mg/L	0.0017	1.017 mg/L	0.0017	0.17%
Fe 273.955†	2625.3	2.103 mg/L	0.0171	2.103 mg/L	0.0171	0.81%
K 766.490†	35304.2	20.28 mg/L	0.329	20.28 mg/L	0.329	1.62%
Mg 279.077†	2448.5	2.078 mg/L	0.0328	2.078 mg/L	0.0328	1.58%
Mn 257.610†	33163.4	1.013 mg/L	0.0171	1.013 mg/L	0.0171	1.69%
Mo 202.031†	18780.0	1.068 mg/L	0.0045	1.068 mg/L	0.0045	0.42%
Na 589.592†	505745.6	49.65 mg/L	0.792	49.65 mg/L	0.792	1.60%
Na 330.237†	1329.3	53.09 mg/L	0.734	53.09 mg/L	0.734	1.38%
Ni 231.604†	3739.9	1.009 mg/L	0.0140	1.009 mg/L	0.0140	1.39%
Pb 220.353†	14974.1	2.108 mg/L	0.0088	2.108 mg/L	0.0088	0.42%
Sb 206.836†	6342.0	2.214 mg/L	0.0143	2.214 mg/L	0.0143	0.65%
Se 196.026†	2669.3	2.072 mg/L	0.0111	2.072 mg/L	0.0111	0.53%
Si 288.158†	3803.3	2.181 mg/L	0.0303	2.181 mg/L	0.0303	1.39%
Sn 189.927†	3563.4	1.052 mg/L	0.0043	1.052 mg/L	0.0043	0.40%
Sr 421.552†	719114.2	0.9855 mg/L	0.01762	0.9855 mg/L	0.01762	1.79%
Ti 334.903†	18521.6	1.053 mg/L	0.0175	1.053 mg/L	0.0175	1.66%
Tl 190.801†	4416.9	2.058 mg/L	0.0089	2.058 mg/L	0.0089	0.43%
V 292.402†	107379.0	1.018 mg/L	0.0017	1.018 mg/L	0.0017	0.17%
Zn 206.200†	3636.5	1.061 mg/L	0.0125	1.061 mg/L	0.0125	1.17%

Sequence No.: 2

Sample ID: CB 5

Autosampler Location: 1

Date Collected: 11/27/2012 1:33:54 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2269541.6	102.7	%	0.67				0.66%
ScR 361.383	279335.7	101.7	%	0.31				0.30%
Ag 328.068†	-24.4	-0.00016	mg/L	0.000295	-0.00016	mg/L	0.000295	179.78%
Al 308.215†	-0.9	-0.00064	mg/L	0.000756	-0.00064	mg/L	0.000756	118.55%
As 188.979†	-0.0	-0.00003	mg/L	0.001799	-0.00003	mg/L	0.001799	>999.9%
B 249.677†	8.8	0.00135	mg/L	0.000612	0.00135	mg/L	0.000612	45.17%
Ba 233.527†	2.6	0.00066	mg/L	0.000813	0.00066	mg/L	0.000813	122.28%
Be 313.042†	51.1	0.00010	mg/L	0.000036	0.00010	mg/L	0.000036	37.35%
Ca 317.933†	12.0	0.00098	mg/L	0.000420	0.00098	mg/L	0.000420	42.64%
Cd 228.802†	1.8	0.00007	mg/L	0.000229	0.00007	mg/L	0.000229	313.35%
Co 228.616†	-4.6	-0.00014	mg/L	0.000128	-0.00014	mg/L	0.000128	92.91%
Cr 267.716†	1.5	0.00027	mg/L	0.000157	0.00027	mg/L	0.000157	58.41%
Cu 324.752†	-103.6	-0.00047	mg/L	0.000068	-0.00047	mg/L	0.000068	14.34%
Fe 273.955†	-0.7	-0.00055	mg/L	0.001363	-0.00055	mg/L	0.001363	249.64%
K 766.490†	-7.2	-0.00411	mg/L	0.000223	-0.00411	mg/L	0.000223	5.43%
Mg 279.077†	5.6	0.00470	mg/L	0.001212	0.00470	mg/L	0.001212	25.78%
Mn 257.610†	8.2	0.00025	mg/L	0.000092	0.00025	mg/L	0.000092	36.90%
Mo 202.031†	24.8	0.00141	mg/L	0.000112	0.00141	mg/L	0.000112	7.92%
Na 589.592†	34.4	0.00338	mg/L	0.000477	0.00338	mg/L	0.000477	14.10%
Na 330.237†	-0.1	-0.00216	mg/L	0.457105	-0.00216	mg/L	0.457105	>999.9%
Ni 231.604†	4.0	0.00109	mg/L	0.001169	0.00109	mg/L	0.001169	107.35%
Pb 220.353†	5.6	0.00079	mg/L	0.001333	0.00079	mg/L	0.001333	167.93%
Sb 206.836†	10.8	0.00376	mg/L	0.002057	0.00376	mg/L	0.002057	54.70%
Se 196.026†	-3.0	-0.00235	mg/L	0.001661	-0.00235	mg/L	0.001661	70.65%
Si 288.158†	-0.5	-0.00030	mg/L	0.005410	-0.00030	mg/L	0.005410	>999.9%
Sn 189.927†	1.5	0.00043	mg/L	0.001156	0.00043	mg/L	0.001156	268.81%
Sr 421.552†	76.2	0.00010	mg/L	0.000025	0.00010	mg/L	0.000025	24.26%
Ti 334.903†	-0.5	-0.00003	mg/L	0.000658	-0.00003	mg/L	0.000658	>999.9%
Tl 190.801†	5.6	0.00263	mg/L	0.001639	0.00263	mg/L	0.001639	62.20%
V 292.402†	5.5	0.00005	mg/L	0.000134	0.00005	mg/L	0.000134	246.43%
Zn 206.200†	-0.7	-0.00019	mg/L	0.001443	-0.00019	mg/L	0.001443	758.12%

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Analysis Begun

Start Time: 11/27/2012 1:38:24 PM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 328

Sample ID: VS22 MB1 SWC

Date Collected: 11/27/2012 1:38:26 PM

Dilution: 2.000000X

Data Type: Original
=====*Del*-----
Nebulizer Parameters: VS22 MB1 SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VS22 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2299077.5	104.0	%	1.04				1.00%
ScR 361.383	285414.2	103.9	%	0.51				0.50%
Ag 328.068†	-14.2	-0.00010	mg/L	0.000315	-0.00019	mg/L	0.000629	330.15%
Al 308.215†	2.8	0.00198	mg/L	0.000425	0.00396	mg/L	0.000851	21.48%
As 188.979†	0.9	0.00055	mg/L	0.001571	0.00110	mg/L	0.003143	284.92%
B 249.677†	11.7	0.00178	mg/L	0.000706	0.00356	mg/L	0.001412	39.62%
Ba 233.527†	0.7	0.00018	mg/L	0.001133	0.00036	mg/L	0.002265	622.38%
Be 313.042†	-10.0	-0.00002	mg/L	0.000014	-0.00004	mg/L	0.000029	75.52%
Ca 317.933†	83.1	0.00682	mg/L	0.001006	0.01364	mg/L	0.002013	14.76%
Cd 228.802†	-1.3	-0.00005	mg/L	0.000113	-0.00011	mg/L	0.000226	215.02%
Co 228.616†	5.1	0.00015	mg/L	0.000132	0.00031	mg/L	0.000264	86.44%
Cr 267.716†	5.3	0.00096	mg/L	0.001220	0.00192	mg/L	0.002440	127.16%
Cu 324.752†	-134.9	-0.00061	mg/L	0.000169	-0.00123	mg/L	0.000338	27.58%
Fe 273.955†	8.8	0.00708	mg/L	0.000987	0.01417	mg/L	0.001974	13.93%
K 766.490†	-12.8	-0.00732	mg/L	0.018989	-0.01465	mg/L	0.037977	259.25%
Mg 279.077†	1.9	0.00157	mg/L	0.008602	0.00314	mg/L	0.017203	547.78%
Mn 257.610†	12.1	0.00037	mg/L	0.000121	0.00074	mg/L	0.000242	32.87%
Mo 202.031†	10.0	0.00057	mg/L	0.000154	0.00113	mg/L	0.000307	27.07%
Na 589.592†	57.0	0.00559	mg/L	0.002744	0.01119	mg/L	0.005488	49.05%
Na 330.237†	5.3	0.2098	mg/L	0.32275	0.4196	mg/L	0.64551	153.83%
Ni 231.604†	5.6	0.00152	mg/L	0.000947	0.00305	mg/L	0.001893	62.16%
Pb 220.353†	5.7	0.00080	mg/L	0.000568	0.00161	mg/L	0.001136	70.69%
Sb 206.836†	4.3	0.00149	mg/L	0.001917	0.00299	mg/L	0.003834	128.24%
Se 196.026†	-10.4	-0.00805	mg/L	0.002742	-0.01609	mg/L	0.005485	34.08%
Si 288.158†	9.5	0.00545	mg/L	0.002567	0.01089	mg/L	0.005133	47.13%
Sn 189.927†	2.2	0.00065	mg/L	0.000454	0.00131	mg/L	0.000908	69.51%
Sr 421.552†	45.6	0.00006	mg/L	0.000011	0.00012	mg/L	0.000022	17.39%
Ti 334.903†	-17.9	-0.00102	mg/L	0.000335	-0.00204	mg/L	0.000669	32.87%
Tl 190.801†	4.7	0.00220	mg/L	0.001670	0.00441	mg/L	0.003341	75.79%
V 292.402†	-1.7	-0.00001	mg/L	0.000187	-0.00002	mg/L	0.000374	>999.9%
Zn 206.200†	6.4	0.00186	mg/L	0.000893	0.00371	mg/L	0.001786	48.07%

Sequence No.: 2

Sample ID: VS22 B SWC

Autosampler Location: 329

Date Collected: 11/27/2012 1:42:41 PM

Data Type: Original

Dilution: 5.000000X *Del*

Nebulizer Parameters: VS22 B SWC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: VS22 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2328160.0	105.3	%	0.34			0.32%
ScR 361.383	290683.0	105.8	%	0.76			0.72%
Ag 328.068†	-106.7	-0.00066	mg/L	0.000097	-0.00332 mg/L	0.000486	14.64%
Al 308.215†	112993.6	81.20	mg/L	0.309	406.0 mg/L	1.55	0.38%
As 188.979†	-170.8	0.01806	mg/L	0.001208	0.09031 mg/L	0.006039	6.69%
B 249.677†	49.3	0.00744	mg/L	0.001202	0.03722 mg/L	0.006012	16.15%
Ba 233.527†	2417.7	0.5964	mg/L	0.00907	2.982 mg/L	0.0454	1.52%
Be 313.042†	879.2	0.00159	mg/L	0.000041	0.00795 mg/L	0.000204	2.56%
Ca 317.933†	325242.4	26.70	mg/L	0.137	133.5 mg/L	0.69	0.51%
Cd 228.802†	256.7	0.01009	mg/L	0.000069	0.05044 mg/L	0.000344	0.68%
Co 228.616†	1607.6	0.03802	mg/L	0.000155	0.1901 mg/L	0.00078	0.41%
Cr 267.716†	539.6	0.09810	mg/L	0.001231	0.4905 mg/L	0.00615	1.25%
Cu 324.752†	13523.2	0.06439	mg/L	0.000537	0.3219 mg/L	0.00269	0.83%
Fe 273.955†	113646.5	91.32	mg/L	0.385	456.6 mg/L	1.92	0.42%
K 766.490†	8696.0	4.994	mg/L	0.0499	24.97 mg/L	0.249	1.00%
Mg 279.077†	27951.5	23.58	mg/L	0.135	117.9 mg/L	0.68	0.57%
Mn 257.610†	68754.4	2.099	mg/L	0.0084	10.49 mg/L	0.042	0.40%
Mo 202.031†	60.8	0.00316	mg/L	0.000127	0.01582 mg/L	0.000633	4.00%
Na 589.592†	13794.3	1.354	mg/L	0.0051	6.772 mg/L	0.0256	0.38%
Na 330.237†	12.3	1.273	mg/L	0.1378	6.363 mg/L	0.6891	10.83%
Ni 231.604†	245.5	0.06622	mg/L	0.001114	0.3311 mg/L	0.00557	1.68%
Pb 220.353†	1570.7	0.2368	mg/L	0.00070	1.184 mg/L	0.0035	0.29%
Sb 206.836†	17.4	0.00729	mg/L	0.001527	0.03645 mg/L	0.007634	20.94%
Se 196.026†	-0.9	-0.00081	mg/L	0.001225	-0.00405 mg/L	0.006126	151.35%
Si 288.158†	2512.9	1.444	mg/L	0.0260	7.221 mg/L	0.1301	1.80%
Sn 189.927†	-32.6	-0.00566	mg/L	0.001373	-0.02829 mg/L	0.006864	24.26%
Sr 421.552†	142743.5	0.1956	mg/L	0.00074	0.9781 mg/L	0.00369	0.38%
Ti 334.903†	79368.3	4.517	mg/L	0.0111	22.59 mg/L	0.055	0.24%
Tl 190.801†	-14.7	0.00197	mg/L	0.002899	0.00985 mg/L	0.014493	147.07%
V 292.402†	19275.7	0.1770	mg/L	0.00119	0.8849 mg/L	0.00593	0.67%
Zn 206.200†	2591.7	0.7564	mg/L	0.00870	3.782 mg/L	0.0435	1.15%

Sequence No.: 3

Sample ID: VS22 C SWC

Autosampler Location: 330

Date Collected: 11/27/2012 1:46:40 PM

Data Type: Original

Dilution: 5.000000X

Del

Nebulizer Parameters: VS22 C SWC

Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: VS22 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2324745.5	105.1	%	0.23				0.22%
ScR 361.383	287486.3	104.7	%	0.59				0.56%
Ag 328.068†	-190.2	-0.00123	mg/L	0.000248	-0.00615	mg/L	0.001241	20.17%
Al 308.215†	136923.8	98.41	mg/L	0.204	492.0	mg/L	1.02	0.21%
As 188.979†	-180.1	0.00643	mg/L	0.002963	0.03214	mg/L	0.014814	46.08%
B 249.677†	44.5	0.00670	mg/L	0.001263	0.03351	mg/L	0.006314	18.84%
Ba 233.527†	2313.9	0.5690	mg/L	0.00165	2.845	mg/L	0.0083	0.29%
Be 313.042†	1345.4	0.00249	mg/L	0.000021	0.01244	mg/L	0.000105	0.84%
Ca 317.933†	287714.5	23.62	mg/L	0.052	118.1	mg/L	0.26	0.22%
Cd 228.802†	53.2	0.00200	mg/L	0.000105	0.00999	mg/L	0.000524	5.25%
Co 228.616†	1741.9	0.04233	mg/L	0.000431	0.2117	mg/L	0.00216	1.02%
Cr 267.716†	566.3	0.1034	mg/L	0.00133	0.5169	mg/L	0.00666	1.29%
Cu 324.752†	15540.4	0.07391	mg/L	0.000518	0.3695	mg/L	0.00259	0.70%
Fe 273.955†	122146.6	98.15	mg/L	0.283	490.8	mg/L	1.41	0.29%
K 766.490†	9580.7	5.502	mg/L	0.0241	27.51	mg/L	0.121	0.44%
Mg 279.077†	27198.2	22.94	mg/L	0.040	114.7	mg/L	0.20	0.17%
Mn 257.610†	32118.6	0.9804	mg/L	0.00191	4.902	mg/L	0.0096	0.20%
Mo 202.031†	52.0	0.00270	mg/L	0.000475	0.01349	mg/L	0.002374	17.59%
Na 589.592†	17278.8	1.696	mg/L	0.0074	8.482	mg/L	0.0369	0.44%
Na 330.237†	11.9	1.377	mg/L	0.2046	6.887	mg/L	1.0229	14.85%
Ni 231.604†	272.2	0.07341	mg/L	0.001458	0.3670	mg/L	0.00729	1.99%
Pb 220.353†	204.0	0.04831	mg/L	0.000399	0.2415	mg/L	0.00199	0.83%
Sb 206.836†	8.6	0.00398	mg/L	0.001300	0.01989	mg/L	0.006500	32.68%
Se 196.026†	-4.8	-0.00386	mg/L	0.001500	-0.01929	mg/L	0.007499	38.87%
Si 288.158†	3467.9	1.992	mg/L	0.0117	9.960	mg/L	0.0584	0.59%
Sn 189.927†	-26.1	-0.00415	mg/L	0.000840	-0.02074	mg/L	0.004202	20.26%
Sr 421.552†	138567.9	0.1899	mg/L	0.00047	0.9495	mg/L	0.00237	0.25%
Ti 334.903†	75805.7	4.315	mg/L	0.0076	21.57	mg/L	0.038	0.18%
Tl 190.801†	-14.0	0.00307	mg/L	0.004801	0.01535	mg/L	0.024007	156.35%
V 292.402†	17257.9	0.1577	mg/L	0.00091	0.7883	mg/L	0.00453	0.57%
Zn 206.200†	843.6	0.2462	mg/L	0.00245	1.231	mg/L	0.0122	0.99%

Sequence No.: 4
 Sample ID: VS22 D SWC

Autosampler Location: 331
 Date Collected: 11/27/2012 1:50:39 PM
 Data Type: Original

Dilution: 5.000000X

Del

Nebulizer Parameters: VS22 D SWC

Analyte Back Pressure Flow
 All 220.0 kPa 0.75 L/min

Mean Data: VS22 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2350629.2	106.3 %		0.47			0.45%
ScR 361.383	289387.8	105.4 %		1.41			1.34%
Ag 328.068†	-385.2	-0.00253 mg/L		0.000197	-0.01264 mg/L	0.000984	7.79%
Al 308.215†	101917.4	73.24 mg/L		0.437	366.2 mg/L	2.19	0.60%
As 188.979†	-131.0	0.03591 mg/L		0.004378	0.1795 mg/L	0.02189	12.19%
B 249.677†	5.3	0.00071 mg/L		0.000581	0.00353 mg/L	0.002907	82.25%
Ba 233.527†	3272.1	0.8095 mg/L		0.01055	4.047 mg/L	0.0528	1.30%
Be 313.042†	1025.3	0.00186 mg/L		0.000036	0.00932 mg/L	0.000179	1.92%
Ca 317.933†	2741050.0	225.1 mg/L		2.67	1125 mg/L	13.34	1.19%
Cd 228.802†	60.6	0.00200 mg/L		0.000164	0.01000 mg/L	0.000822	8.22%
Co 228.616†	1797.4	0.04316 mg/L		0.000279	0.2158 mg/L	0.00140	0.65%
Cr 267.716†	772.3	0.1374 mg/L		0.00108	0.6871 mg/L	0.00541	0.79%
Cu 324.752†	26525.9	0.1241 mg/L		0.00017	0.6206 mg/L	0.00084	0.14%
Fe 273.955†	136217.6	109.5 mg/L		0.41	547.3 mg/L	2.05	0.37%
K 766.490†	13679.9	7.856 mg/L		0.0527	39.28 mg/L	0.263	0.67%
Mg 279.077†	48516.0	40.96 mg/L		0.154	204.8 mg/L	0.77	0.38%
Mn 257.610†	50942.7	1.555 mg/L		0.0054	7.773 mg/L	0.0269	0.35%
Mo 202.031†	111.8	0.00392 mg/L		0.000201	0.01959 mg/L	0.001006	5.13%
Na 589.592†	16960.1	1.665 mg/L		0.0121	8.326 mg/L	0.0605	0.73%
Na 330.237†	27.8	2.095 mg/L		0.0824	10.47 mg/L	0.412	3.94%
Ni 231.604†	383.5	0.1034 mg/L		0.00205	0.5171 mg/L	0.01023	1.98%
Pb 220.353†	173.9	0.03759 mg/L		0.001671	0.1879 mg/L	0.00835	4.44%
Sb 206.836†	3.3	0.00177 mg/L		0.002191	0.00885 mg/L	0.010956	123.85%
Se 196.026†	-21.4	-0.01679 mg/L		0.006088	-0.08394 mg/L	0.030438	36.26%
Si 288.158†	3030.9	1.744 mg/L		0.0299	8.718 mg/L	0.1495	1.71%
Sn 189.927†	-79.9	0.00494 mg/L		0.002283	0.02468 mg/L	0.011415	46.26%
Sr 421.552†	504247.3	0.6911 mg/L		0.00883	3.455 mg/L	0.0442	1.28%
Ti 334.903†	81770.6	4.645 mg/L		0.0222	23.22 mg/L	0.111	0.48%
Tl 190.801†	6.7	0.01379 mg/L		0.003196	0.06895 mg/L	0.015978	23.17%
V 292.402†	21921.5	0.2014 mg/L		0.00035	1.007 mg/L	0.0017	0.17%
Zn 206.200†	821.9	0.2399 mg/L		0.00270	1.199 mg/L	0.0135	1.13%

Sequence No.: 5 ~~222222~~ *222222*
 Sample ID: ~~VS22 A-L SWC~~ *2A* *11/25/12*

Autosampler Location: 332
 Date Collected: 11/27/2012 1:54:41 PM
 Data Type: Original

Dilution: 25.000000X *Del*

Nebulizer Parameters: VS22 A-L SWC

Analyte Back Pressure Flow
 All 219.0 kPa 0.75 L/min

Mean Data: VS22 A-L SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2285899.9	103.4 %		0.39				0.38%
ScR 361.383	291233.2	106.0 %		3.25				3.07%
Ag 328.068†	6.8	0.00005 mg/L		0.000053	0.00130 mg/L	0.001334	102.91%	
Al 308.215†	13271.4	9.538 mg/L		0.3700	238.4 mg/L	9.25	3.88%	
As 188.979†	-9.9	0.00776 mg/L		0.000799	0.1941 mg/L	0.01997	10.29%	
B 249.677†	12.8	0.00195 mg/L		0.000514	0.04871 mg/L	0.012843	26.37%	
Ba 233.527†	524.5	0.1307 mg/L		0.00628	3.268 mg/L	0.1569	4.80%	
Be 313.042†	121.0	0.00022 mg/L		0.000048	0.00552 mg/L	0.001205	21.82%	
Ca 317.933†	75112.6	6.167 mg/L		0.2372	154.2 mg/L	5.93	3.85%	
Cd 228.802†	119.5	0.00468 mg/L		0.000149	0.1170 mg/L	0.00373	3.19%	
Co 228.616†	234.6	0.00586 mg/L		0.000162	0.1466 mg/L	0.00405	2.76%	
Cr 267.716†	73.7	0.01332 mg/L		0.000611	0.3329 mg/L	0.01526	4.58%	
Cu 324.752†	2909.7	0.01361 mg/L		0.000211	0.3402 mg/L	0.00527	1.55%	
Fe 273.955†	14420.5	11.59 mg/L		0.490	289.7 mg/L	12.24	4.23%	
K 766.490†	1553.1	0.8919 mg/L		0.03852	22.30 mg/L	0.963	4.32%	
Mg 279.077†	3564.0	3.007 mg/L		0.1211	75.18 mg/L	3.028	4.03%	
Mn 257.610†	23192.6	0.7079 mg/L		0.02854	17.70 mg/L	0.713	4.03%	
Mo 202.031†	21.3	0.00114 mg/L		0.000375	0.02853 mg/L	0.009376	32.86%	
Na 589.592†	1400.8	0.1375 mg/L		0.00702	3.438 mg/L	0.1756	5.11%	
Na 330.237†	11.5	0.5079 mg/L		0.39787	12.70 mg/L	9.947	78.34%	
Ni 231.604†	35.7	0.00964 mg/L		0.000852	0.2411 mg/L	0.02130	8.83%	
Pb 220.353†	1353.5	0.1922 mg/L		0.00199	4.806 mg/L	0.0497	1.03%	
Sb 206.836†	13.7	0.00488 mg/L		0.003239	0.1219 mg/L	0.08098	66.41%	
Se 196.026†	-10.5	-0.00815 mg/L		0.002693	-0.2038 mg/L	0.06731	33.03%	
Si 288.158†	297.2	0.1708 mg/L		0.01268	4.271 mg/L	0.3171	7.43%	
Sn 189.927†	-3.1	-0.00008 mg/L		0.000353	-0.00199 mg/L	0.008825	444.49%	
Sr 421.552†	30523.9	0.04183 mg/L		0.001653	1.046 mg/L	0.0413	3.95%	
Ti 334.903†	8887.8	0.5057 mg/L		0.02108	12.64 mg/L	0.527	4.17%	
Tl 190.801†	5.0	0.00346 mg/L		0.001259	0.08652 mg/L	0.031483	36.39%	
V 292.402†	2375.4	0.02190 mg/L		0.000144	0.5476 mg/L	0.00359	0.66%	
Zn 206.200†	699.4	0.2041 mg/L		0.00866	5.103 mg/L	0.2165	4.24%	

Sequence No.: 6
 Sample ID: VS22 A SWC

Autosampler Location: 333
 Date Collected: 11/27/2012 1:58:39 PM
 Data Type: Original

Dilution: 5.000000X

Del

Nebulizer Parameters: VS22 A SWC

Analyte Back Pressure Flow
 All 220.0 kPa 0.75 L/min

Mean Data: VS22 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2386266.1	107.9 %	1.53			1.42%
ScR 361.383	305862.1	111.4 %	0.81			0.73%
Ag 328.068†	92.8	0.00065 mg/L	0.000282	0.00326 mg/L	0.001409	43.19%
Al 308.215†	62126.6	44.65 mg/L	0.387	223.2 mg/L	1.93	0.87%
As 188.979†	-53.4	0.03192 mg/L	0.000841	0.1596 mg/L	0.00421	2.63%
B 249.677†	64.2	0.00974 mg/L	0.000257	0.04871 mg/L	0.001286	2.64%
Ba 233.527†	2459.0	0.6129 mg/L	0.00605	3.064 mg/L	0.0302	0.99%
Be 313.042†	545.4	0.00099 mg/L	0.000034	0.00497 mg/L	0.000172	3.47%
Ca 317.933†	356774.3	29.29 mg/L	0.191	146.5 mg/L	0.95	0.65%
Cd 228.802†	547.5	0.02146 mg/L	0.000406	0.1073 mg/L	0.00203	1.89%
Co 228.616†	1059.6	0.02628 mg/L	0.000693	0.1314 mg/L	0.00347	2.64%
Cr 267.716†	330.0	0.05970 mg/L	0.000811	0.2985 mg/L	0.00405	1.36%
Cu 324.752†	14012.1	0.06550 mg/L	0.001261	0.3275 mg/L	0.00630	1.93%
Fe 273.955†	67705.1	54.41 mg/L	0.620	272.0 mg/L	3.10	1.14%
K 766.490†	7408.6	4.255 mg/L	0.0227	21.27 mg/L	0.114	0.53%
Mg 279.077†	15896.6	13.41 mg/L	0.101	67.05 mg/L	0.504	0.75%
Mn 257.610†	109301.3	3.336 mg/L	0.0408	16.68 mg/L	0.204	1.22%
Mo 202.031†	73.1	0.00383 mg/L	0.000491	0.01917 mg/L	0.002456	12.81%
Na 589.592†	6402.8	0.6286 mg/L	0.00631	3.143 mg/L	0.0315	1.00%
Na 330.237†	22.5	1.125 mg/L	0.1534	5.625 mg/L	0.7668	13.63%
Ni 231.604†	161.3	0.04351 mg/L	0.000591	0.2175 mg/L	0.00296	1.36%
Pb 220.353†	6217.2	0.8832 mg/L	0.01511	4.416 mg/L	0.0755	1.71%
Sb 206.836†	26.7	0.00987 mg/L	0.001729	0.04937 mg/L	0.008647	17.51%
Se 196.026†	4.6	0.00351 mg/L	0.003822	0.01754 mg/L	0.019109	108.92%
Si 288.158†	1417.6	0.8148 mg/L	0.01341	4.074 mg/L	0.0670	1.65%
Sn 189.927†	-17.0	-0.00101 mg/L	0.000498	-0.00506 mg/L	0.002489	49.19%
Sr 421.552†	142014.9	0.1946 mg/L	0.00149	0.9732 mg/L	0.00744	0.76%
Ti 334.903†	41705.6	2.373 mg/L	0.0236	11.87 mg/L	0.118	1.00%
Tl 190.801†	5.9	0.00805 mg/L	0.002526	0.04027 mg/L	0.012632	31.37%
V 292.402†	10790.6	0.09940 mg/L	0.001623	0.4970 mg/L	0.00811	1.63%
Zn 206.200†	3302.9	0.9640 mg/L	0.00776	4.820 mg/L	0.0388	0.80%

Sequence No.: 7
 Sample ID: VS22 ADUP SWC

Autosampler Location: 334
 Date Collected: 11/27/2012 2:02:39 PM
 Data Type: Original

Dilution: 5.000000X

Dal

Nebulizer Parameters: VS22 ADUP SWC

Analyte Back Pressure Flow
 All 219.0 kPa 0.75 L/min

Mean Data: VS22 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2410458.8	109.0 %		0.53			
ScR 361.383	294470.5	107.2 %		1.10			
Ag 328.068†	72.5	0.00052 mg/L		0.000210	0.00259 mg/L	0.001049	0.48%
Al 308.215†	67203.2	48.30 mg/L		0.539	241.5 mg/L	2.69	1.03%
As 188.979†	-63.5	0.03370 mg/L		0.001709	0.1685 mg/L	0.00854	40.47%
B 249.677†	79.4	0.01207 mg/L		0.001080	0.06035 mg/L	0.005400	1.12%
Ba 233.527†	2638.4	0.6577 mg/L		0.00349	3.288 mg/L	0.005400	5.07%
Be 313.042†	590.4	0.00108 mg/L		0.000017	0.00538 mg/L	0.0175	8.95%
Ca 317.933†	385457.0	31.65 mg/L		0.347	158.2 mg/L	0.000087	0.53%
Cd 228.802†	572.0	0.02244 mg/L		0.000248	0.1122 mg/L	1.73	1.62%
Co 228.616†	1067.5	0.02590 mg/L		0.000285	0.1295 mg/L	0.00124	1.10%
Cr 267.716†	345.1	0.06244 mg/L		0.000579	0.3122 mg/L	0.00143	1.11%
Cu 324.752†	14311.2	0.06695 mg/L		0.000017	0.3347 mg/L	0.00290	1.10%
Fe 273.955†	72131.8	57.96 mg/L		0.522	289.8 mg/L	0.00009	0.93%
K 766.490†	8196.2	4.707 mg/L		0.0676	23.54 mg/L	2.61	0.03%
Mg 279.077†	16945.4	14.30 mg/L		0.144	71.48 mg/L	0.338	0.90%
Mn 257.610†	117471.5	3.586 mg/L		0.0396	17.93 mg/L	0.722	1.44%
Mo 202.031†	63.9	0.00329 mg/L		0.000205	0.01645 mg/L	0.198	1.01%
Na 589.592†	7377.1	0.7243 mg/L		0.00928	3.621 mg/L	0.001025	1.10%
Na 330.237†	17.9	0.9868 mg/L		0.07791	4.934 mg/L	0.0464	6.23%
Ni 231.604†	164.8	0.04445 mg/L		0.001341	0.2223 mg/L	0.3896	1.28%
Pb 220.353†	6290.5	0.8943 mg/L		0.00573	4.471 mg/L	0.00670	7.90%
Sb 206.836†	23.3	0.00877 mg/L		0.001345	0.04387 mg/L	0.0287	3.02%
Se 196.026†	-2.6	-0.00213 mg/L		0.006090	-0.01063 mg/L	0.006726	0.64%
Si 288.158†	1498.4	0.8613 mg/L		0.00831	4.306 mg/L	0.030452	15.33%
Sn 189.927†	-21.4	-0.00197 mg/L		0.001218	-0.00983 mg/L	0.0415	286.34%
Sr 421.552†	155225.8	0.2127 mg/L		0.00242	1.064 mg/L	0.006091	0.96%
Ti 334.903†	46881.9	2.668 mg/L		0.0281	13.34 mg/L	0.0121	61.93%
Tl 190.801†	2.2	0.00666 mg/L		0.001465	0.03332 mg/L	0.140	1.14%
V 292.402†	11433.4	0.1052 mg/L		0.00047	0.5262 mg/L	0.00234	1.05%
Zn 206.200†	3507.2	1.024 mg/L		0.0067	5.118 mg/L	0.007324	21.98%
						0.00234	0.45%
						0.0333	0.65%

Sequence No.: 8

Autosampler Location: 335

Sample ID: VS22 ASPK SWC

Date Collected: 11/27/2012 2:06:38 PM

Dilution: 5.000000X

Data Type: Original

Del

Nebulizer Parameters: VS22 ASPK SWC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: VS22 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2411209.9	109.1 %	%	0.48			0.44%
ScR 361.383	302231.3	110.0 %	%	0.51			0.46%
Ag 328.068†	29865.6	0.2007 mg/L	mg/L	0.00108	1.004 mg/L	0.0054	0.54%
Al 308.215†	68994.5	49.58 mg/L	mg/L	0.379	247.9 mg/L	1.89	0.76%
As 188.979†	1171.1	0.8261 mg/L	mg/L	0.00413	4.130 mg/L	0.0206	0.50%
B 249.677†	80.0	0.01175 mg/L	mg/L	0.000632	0.05873 mg/L	0.003159	5.38%
Ba 233.527†	5678.6	1.426 mg/L	mg/L	0.0009	7.132 mg/L	0.0045	0.06%
Be 313.042†	103380.0	0.1976 mg/L	mg/L	0.00144	0.9882 mg/L	0.00719	0.73%
Ca 317.933†	434202.8	35.65 mg/L	mg/L	0.259	178.3 mg/L	1.30	0.73%
Cd 228.802†	5934.0	0.2300 mg/L	mg/L	0.00120	1.150 mg/L	0.0060	0.52%
Co 228.616†	7827.8	0.2276 mg/L	mg/L	0.00155	1.138 mg/L	0.0077	0.68%
Cr 267.716†	1453.8	0.2614 mg/L	mg/L	0.00131	1.307 mg/L	0.0065	0.50%
Cu 324.752†	60013.7	0.2747 mg/L	mg/L	0.00104	1.374 mg/L	0.0052	0.38%
Fe 273.955†	72537.0	58.29 mg/L	mg/L	0.572	291.4 mg/L	2.86	0.98%
K 766.490†	14753.7	8.473 mg/L	mg/L	0.0584	42.37 mg/L	0.292	0.69%
Mg 279.077†	22515.8	19.01 mg/L	mg/L	0.022	95.03 mg/L	0.112	0.12%
Mn 257.610†	122673.8	3.744 mg/L	mg/L	0.0336	18.72 mg/L	0.168	0.90%
Mo 202.031†	68.8	0.00351 mg/L	mg/L	0.000196	0.01756 mg/L	0.000979	5.57%
Na 589.592†	45976.1	4.514 mg/L	mg/L	0.0334	22.57 mg/L	0.167	0.74%
Na 330.237†	125.5	5.237 mg/L	mg/L	0.1513	26.19 mg/L	0.757	2.89%
Ni 231.604†	868.1	0.2338 mg/L	mg/L	0.00004	1.169 mg/L	0.0002	0.02%
Pb 220.353†	11927.6	1.688 mg/L	mg/L	0.0129	8.439 mg/L	0.0646	0.77%
Sb 206.836†	27.0	0.00799 mg/L	mg/L	0.000638	0.03994 mg/L	0.003188	7.98%
Se 196.026†	1023.7	0.7947 mg/L	mg/L	0.01104	3.973 mg/L	0.0552	1.39%
Si 288.158†	1335.9	0.7694 mg/L	mg/L	0.00533	3.847 mg/L	0.0267	0.69%
Sn 189.927†	-26.0	-0.00282 mg/L	mg/L	0.000527	-0.01412 mg/L	0.002633	18.65%
Sr 421.552†	297342.7	0.4075 mg/L	mg/L	0.00301	2.038 mg/L	0.0151	0.74%
Ti 334.903†	46913.9	2.669 mg/L	mg/L	0.0204	13.35 mg/L	0.102	0.76%
Tl 190.801†	1631.7	0.7672 mg/L	mg/L	0.00631	3.836 mg/L	0.0316	0.82%
V 292.402†	32429.3	0.3043 mg/L	mg/L	0.00126	1.522 mg/L	0.0063	0.41%
Zn 206.200†	4074.4	1.189 mg/L	mg/L	0.0024	5.946 mg/L	0.0122	0.21%

Sequence No.: 9 ~~222222~~

Sample ID: ~~VS22 APOST SWC~~ BA

Autosampler Location: 336

Date Collected: 11/27/2012 2:10:37 PM

Data Type: Original

Dilution: 5.000000X

11/28/12

Del

Nebulizer Parameters: VS22 APOST SWC

Analyte Back Pressure Flow
All 220.0 kPa 0.75 L/min

Mean Data: VS22 APOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2433828.2	110.1 %		0.73			
ScR 361.383	303834.7	110.6 %		0.57			0.66%
Ag 328.068†	67862.5	0.4560 mg/L		0.00231	2.280 mg/L	0.0115	0.52%
Al 308.215†	66584.2	47.85 mg/L		0.236	239.2 mg/L	1.18	0.51%
As 188.979†	3020.6	2.006 mg/L		0.0202	10.03 mg/L	0.101	0.49%
B 249.677†	70.4	0.00969 mg/L		0.000722	0.04845 mg/L	0.003610	1.01%
Ba 233.527†	9961.4	2.510 mg/L		0.0069	12.55 mg/L	0.034	7.45%
Be 313.042†	250983.4	0.4799 mg/L		0.00193	2.400 mg/L	0.0097	0.27%
Ca 317.933†	479078.7	39.33 mg/L		0.114	196.7 mg/L	0.57	0.40%
Cd 228.802†	13590.3	0.5261 mg/L		0.00474	2.630 mg/L	0.0237	0.29%
Co 228.616†	17387.3	0.5134 mg/L		0.00459	2.567 mg/L	0.0229	0.90%
Cr 267.716†	2997.2	0.5384 mg/L		0.00073	2.692 mg/L	0.0036	0.89%
Cu 324.752†	119943.9	0.5471 mg/L		0.00209	2.736 mg/L	0.0105	0.14%
Fe 273.955†	71334.2	57.32 mg/L		0.257	286.6 mg/L	1.28	0.38%
K 766.490†	24101.3	13.84 mg/L		0.023	69.21 mg/L	0.116	0.45%
Mg 279.077†	28562.6	24.12 mg/L		0.024	120.6 mg/L	0.12	0.17%
Mn 257.610†	126825.6	3.871 mg/L		0.0134	19.36 mg/L	0.067	0.10%
Mo 202.031†	75.9	0.00386 mg/L		0.000136	0.01930 mg/L	0.000681	0.35%
Na 589.592†	99563.7	9.775 mg/L		0.0307	48.88 mg/L	0.153	3.53%
Na 330.237†	268.0	10.81 mg/L		0.010	54.03 mg/L	0.048	0.31%
Ni 231.604†	1869.5	0.5034 mg/L		0.00042	2.517 mg/L	0.0021	0.09%
Pb 220.353†	19862.3	2.804 mg/L		0.0285	14.02 mg/L	0.143	0.08%
Sb 206.836†	37.7	0.00863 mg/L		0.004270	0.04314 mg/L	0.021348	1.02%
Se 196.026†	2555.7	1.984 mg/L		0.0234	9.920 mg/L	0.1171	49.49%
Si 288.158†	1435.5	0.8282 mg/L		0.01077	4.141 mg/L	0.0539	1.18%
Sn 189.927†	-27.9	-0.00292 mg/L		0.000810	-0.01461 mg/L	0.004051	1.30%
Sr 421.552†	484991.3	0.6647 mg/L		0.00224	3.323 mg/L	0.0112	27.73%
Ti 334.903†	42851.3	2.438 mg/L		0.0078	12.19 mg/L	0.039	0.34%
Tl 190.801†	4009.0	1.877 mg/L		0.0152	9.384 mg/L	0.0762	0.32%
V 292.402†	59879.9	0.5649 mg/L		0.00155	2.824 mg/L	0.0078	0.81%
Zn 206.200†	4937.4	1.441 mg/L		0.0013	7.205 mg/L	0.0063	0.27%
							0.09%

Sequence No.: 10

Sample ID: VS22 MB1SPK SWC

Autosampler Location: 337

Date Collected: 11/27/2012 2:14:23 PM

Data Type: Original

Dilution: 2.000000X

D21

Nebulizer Parameters: VS22 MB1SPK SWC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.75 L/min

Mean Data: VS22 MB1SPK SWC

Analyte	Mean Corrected			Std.Dev.	Sample			RSD
	Intensity	Conc. Units	Calib.		Conc. Units	Std.Dev.		
ScA 357.253	2434017.1	110.1 %		0.79				
ScR 361.383	301782.8	109.9 %		0.68				0.72%
Ag 328.068†	75651.2	0.5083 mg/L		0.00064	1.017 mg/L	0.0013		0.62%
Al 308.215†	2679.1	1.919 mg/L		0.0104	3.837 mg/L	0.0208		0.13%
As 188.979†	3089.8	1.983 mg/L		0.0186	3.966 mg/L	0.0372		0.54%
B 249.677†	15.4	0.00134 mg/L		0.000704	0.00268 mg/L	0.01408		0.94%
Ba 233.527†	7595.8	1.920 mg/L		0.0100	3.841 mg/L	0.0200		52.52%
Be 313.042†	254852.0	0.4874 mg/L		0.00265	0.9747 mg/L	0.00530		0.52%
Ca 317.933†	116476.2	9.563 mg/L		0.0359	19.13 mg/L	0.072		0.54%
Cd 228.802†	12949.4	0.5009 mg/L		0.00086	1.002 mg/L	0.0017		0.38%
Co 228.616†	16391.6	0.4892 mg/L		0.00044	0.9783 mg/L	0.00089		0.17%
Cr 267.716†	2750.0	0.4936 mg/L		0.00221	0.9873 mg/L	0.00443		0.09%
Cu 324.752†	103915.9	0.4725 mg/L		0.00120	0.9449 mg/L	0.00239		0.45%
Fe 273.955†	2463.0	1.976 mg/L		0.0073	3.952 mg/L	0.0145		0.25%
K 766.490†	16539.8	9.499 mg/L		0.0610	19.00 mg/L	0.122		0.37%
Mg 279.077†	11641.5	9.842 mg/L		0.0413	19.68 mg/L	0.083		0.64%
Mn 257.610†	16164.6	0.4937 mg/L		0.00167	0.9874 mg/L	0.00333		0.42%
Mo 202.031†	18.3	0.00091 mg/L		0.000377	0.00182 mg/L	0.000754		0.34%
Na 589.592†	93654.7	9.195 mg/L		0.0660	18.39 mg/L	0.132		41.34%
Na 330.237†	260.6	10.27 mg/L		0.178	20.54 mg/L	0.357		0.72%
Ni 231.604†	1755.0	0.4725 mg/L		0.00244	0.9449 mg/L	0.00489		1.74%
Pb 220.353†	13693.4	1.927 mg/L		0.0025	3.855 mg/L	0.0050		0.52%
Sb 206.836†	15.8	0.00029 mg/L		0.002493	0.00057 mg/L	0.00050		0.13%
Se 196.026†	2529.1	1.963 mg/L		0.0100	3.927 mg/L	0.004985		867.54%
Si 288.158†	4.4	0.00560 mg/L		0.001417	0.01119 mg/L	0.0199		0.51%
Sn 189.927†	-14.7	-0.00308 mg/L		0.000498	-0.00615 mg/L	0.002834		25.32%
Sr 421.552†	342443.0	0.4693 mg/L		0.00252	0.9386 mg/L	0.000995		16.18%
Ti 334.903†	27.2	0.00099 mg/L		0.000131	0.00198 mg/L	0.00504		0.54%
Tl 190.801†	4105.0	1.916 mg/L		0.0189	3.833 mg/L	0.000263		13.25%
V 292.402†	51472.0	0.4881 mg/L		0.00031	0.9762 mg/L	0.0379		0.99%
Zn 206.200†	1655.4	0.4832 mg/L		0.00172	0.9664 mg/L	0.00063		0.06%
						0.00343		0.36%

Sequence No.: 11

Sample ID: CV 7

Autosampler Location: 7

Date Collected: 11/27/2012 2:18:22 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2386525.2	107.9 %	3.59			
ScR 361.383	19069.3	6.943 %	5.7178			3.33%
Saturated within auto integration window (code 4)						
Ag 328.068†	149452.5	1.004 mg/L	0.0464	1.004 mg/L	0.0464	4.62%
Al 308.215†	19044.3	13.66 mg/L	11.709	13.66 mg/L	11.709	85.74%
Saturated within auto integration window (code 4)						
As 188.979†	3149.6	2.018 mg/L	0.0846	2.018 mg/L	0.0846	4.19%
B 249.677†	13076.8	1.997 mg/L	2.8125	1.997 mg/L	2.8125	140.81%
Saturated within auto integration window (code 4)						
Ba 233.527†	11862.4	2.998 mg/L	3.8505	2.998 mg/L	3.8505	128.43%
Be 313.042†	70861.4	0.1353 mg/L	0.20763	0.1353 mg/L	0.20763	153.41%
Saturated within auto integration window (code 4)						
Ca 317.933†	55121.4	4.526 mg/L	6.3705	4.526 mg/L	6.3705	140.76%
Cd 228.802†	25557.1	1.002 mg/L	0.0512	1.002 mg/L	0.0512	5.11%
Co 228.616†	32832.8	0.9798 mg/L	0.04795	0.9798 mg/L	0.04795	4.89%
Cr 267.716†	2493.5	0.4473 mg/L	5.57932	0.4473 mg/L	5.57932	>999.9%
Saturated within auto integration window (code 4)						
Cu 324.752†	217736.4	0.9898 mg/L	0.04875	0.9898 mg/L	0.04875	4.93%
Fe 273.955†	9320.7	7.482 mg/L	8.2868	7.482 mg/L	8.2868	110.75%
K 766.490†	56498.7	32.45 mg/L	32.589	32.45 mg/L	32.589	100.44%
Saturated within auto integration window (code 4)						
Mg 279.077†	13468.1	11.39 mg/L	9.251	11.39 mg/L	9.251	81.22%
Mn 257.610†	30411.6	0.9285 mg/L	0.67578	0.9285 mg/L	0.67578	72.78%
Saturated within auto integration window (code 4)						
Mo 202.031†	17350.8	0.9866 mg/L	0.05120	0.9866 mg/L	0.05120	5.19%
Na 589.592†	-24927.5	-2.447 mg/L	8.1132	-2.447 mg/L	8.1132	331.51%
Saturated within auto integration window (code 4)						
Na 330.237†	-15629.4	-626.6 mg/L	1114.86	-626.6 mg/L	1114.86	177.91%
Saturated within auto integration window (code 4)						
Ni 231.604†	7947.1	2.143 mg/L	4.6789	2.143 mg/L	4.6789	218.29%
Saturated within auto integration window (code 4)						
Pb 220.353†	13905.2	1.959 mg/L	0.1043	1.959 mg/L	0.1043	5.32%
Sb 206.836†	6082.2	2.131 mg/L	0.0406	2.131 mg/L	0.0406	1.90%
Se 196.026†	2581.2	2.003 mg/L	0.0773	2.003 mg/L	0.0773	3.86%
Si 288.158†	14234.6	8.165 mg/L	7.3442	8.165 mg/L	7.3442	89.95%
Sn 189.927†	3436.6	1.015 mg/L	0.0408	1.015 mg/L	0.0408	4.02%
Sr 421.552†	75605.6	0.1036 mg/L	0.10266	0.1036 mg/L	0.10266	99.08%
Saturated within auto integration window (code 4)						
Ti 334.903†	-430.2	-0.02565 mg/L	0.424327	-0.02565 mg/L	0.424327	>999.9%
Saturated within auto integration window (code 4)						
Tl 190.801†	4243.4	1.978 mg/L	0.0800	1.978 mg/L	0.0800	4.04%
V 292.402†	104014.2	0.9844 mg/L	0.06970	0.9844 mg/L	0.06970	7.08%
Zn 206.200†	11718.6	3.420 mg/L	4.9921	3.420 mg/L	4.9921	145.98%

Sequence No.: 12

Sample ID: CB

Autosampler Location: 1

Date Collected: 11/27/2012 2:24:10 PM

Data Type: Original

Dilution: 1.000000X

User canceled analysis.

Analysis Begun

Start Time: 11/27/2012 2:27:04 PM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 11

Sample ID: CV 8

Autosampler Location: 7

Date Collected: 11/27/2012 2:27:04 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2368646.4	107.1 %		0.48			
ScR 361.383	24475.8	8.911 %		2.9221			0.45%
Saturated within auto integration window (code 4)							
Ag 328.068†	149334.8	1.003 mg/L		0.0093	1.003 mg/L	0.0093	0.93%
Al 308.215†	14843.2	10.64 mg/L		7.432	10.64 mg/L	7.432	69.87%
Saturated within auto integration window (code 4)							
As 188.979†	3116.6	1.998 mg/L		0.0099	1.998 mg/L	0.0099	0.50%
B 249.677†	23242.9	3.551 mg/L		3.0097	3.551 mg/L	3.0097	84.76%
Saturated within auto integration window (code 4)							
Ba 233.527†	20213.2	5.109 mg/L		4.3051	5.109 mg/L	4.3051	84.27%
Be 313.042†	5675.8	0.01066 mg/L		0.010193	0.01066 mg/L	0.010193	95.64%
Saturated within auto integration window (code 4)							
Ca 317.933†	107740.4	8.846 mg/L		9.7434	8.846 mg/L	9.7434	110.14%
Cd 228.802†	25649.8	1.009 mg/L		0.0071	1.009 mg/L	0.0071	0.70%
Co 228.616†	32852.4	0.9793 mg/L		0.00501	0.9793 mg/L	0.00501	0.51%
Cr 267.716†	22767.4	4.094 mg/L		3.9032	4.094 mg/L	3.9032	95.33%
Saturated within auto integration window (code 4)							
Cu 324.752†	217975.5	0.9910 mg/L		0.00953	0.9910 mg/L	0.00953	0.96%
Fe 273.955†	14281.6	11.47 mg/L		9.685	11.47 mg/L	9.685	84.41%
K 766.490†	32057.0	18.41 mg/L		13.644	18.41 mg/L	13.644	74.11%
Saturated within auto integration window (code 4)							
Mg 279.077†	15529.0	13.13 mg/L		10.436	13.13 mg/L	10.436	79.45%
Mn 257.610†	31333.4	0.9567 mg/L		0.74809	0.9567 mg/L	0.74809	78.19%
Saturated within auto integration window (code 4)							
Mo 202.031†	17401.4	0.9892 mg/L		0.00800	0.9892 mg/L	0.00800	0.81%
Na 589.592†	24335.9	2.389 mg/L		2.6914	2.389 mg/L	2.6914	112.65%
Saturated within auto integration window (code 4)							
Na 330.237†	-609.8	-26.47 mg/L		68.654	-26.47 mg/L	68.654	259.34%
Saturated within auto integration window (code 4)							
Ni 231.604†	18725.0	5.050 mg/L		4.4287	5.050 mg/L	4.4287	87.70%
Saturated within auto integration window (code 4)							
Pb 220.353†	13911.1	1.966 mg/L		0.0166	1.966 mg/L	0.0166	0.84%
Sb 206.836†	6057.5	2.070 mg/L		0.0489	2.070 mg/L	0.0489	2.36%
Se 196.026†	2561.6	1.988 mg/L		0.0106	1.988 mg/L	0.0106	0.53%
Si 288.158†	19020.7	10.91 mg/L		9.030	10.91 mg/L	9.030	82.77%
Sn 189.927†	3419.3	1.011 mg/L		0.0047	1.011 mg/L	0.0047	0.46%
Sr 421.552†	93501.3	0.1281 mg/L		0.10606	0.1281 mg/L	0.10606	82.77%

Saturated within auto integration window (code 4)							
Ti 334.903†	3850.6	0.2171 mg/L	0.23480	0.2171 mg/L	0.23480	108.13%	
Saturated within auto integration window (code 4)							
Tl 190.801†	4208.4	1.961 mg/L	0.0164	1.961 mg/L	0.0164	0.83%	
V 292.402†	103958.9	0.9993 mg/L	0.01968	0.9993 mg/L	0.01968	1.97%	
Zn 206.200†	22047.2	6.434 mg/L	5.5193	6.434 mg/L	5.5193	85.79%	

User canceled analysis.

=====
Analysis Begun

Start Time: 11/27/2012 2:37:49 PM

Plasma On Time: 11/27/2012 8:08:35 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1127.sif

Batch ID:

Results Data Set: I2121127

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 11

Autosampler Location: 7

Sample ID: CV 9

Date Collected: 11/27/2012 2:37:50 PM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: CV


Analyte	Back Pressure	Flow
All	219.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2337991.9	105.7 %	0.32			0.31%
ScR 361.383	288110.8	104.9 %	1.08			1.03%
Ag 328.068†	153156.4	1.029 mg/L	0.0045	1.029 mg/L	0.0045	0.44%
Al 308.215†	2813.1	1.988 mg/L	0.0209	1.988 mg/L	0.0209	1.05%
As 188.979†	3194.7	2.076 mg/L	0.0153	2.076 mg/L	0.0153	0.74%
B 249.677†	6323.0	0.9653 mg/L	0.01265	0.9653 mg/L	0.01265	1.31%
Ba 233.527†	3913.5	0.9891 mg/L	0.00842	0.9891 mg/L	0.00842	0.85%
Be 313.042†	525227.9	1.004 mg/L	0.0077	1.004 mg/L	0.0077	0.77%
Ca 317.933†	23834.4	1.957 mg/L	0.0111	1.957 mg/L	0.0111	0.57%
Cd 228.802†	26132.9	1.024 mg/L	0.0048	1.024 mg/L	0.0048	0.47%
Co 228.616†	33599.8	1.001 mg/L	0.0061	1.001 mg/L	0.0061	0.61%
Cr 267.716†	5649.2	1.016 mg/L	0.0100	1.016 mg/L	0.0100	0.98%
Cu 324.752†	221813.4	1.008 mg/L	0.0021	1.008 mg/L	0.0021	0.21%
Fe 273.955†	2557.2	2.048 mg/L	0.0211	2.048 mg/L	0.0211	1.03%
K 766.490†	34862.2	20.02 mg/L	0.161	20.02 mg/L	0.161	0.80%
Mg 279.077†	2361.2	2.003 mg/L	0.0170	2.003 mg/L	0.0170	0.85%
Mn 257.610†	32753.0	1.000 mg/L	0.0055	1.000 mg/L	0.0055	0.55%
Mo 202.031†	17649.7	1.004 mg/L	0.0017	1.004 mg/L	0.0017	0.16%
Na 589.592†	495934.9	48.69 mg/L	0.532	48.69 mg/L	0.532	1.09%
Na 330.237†	1303.1	52.05 mg/L	0.335	52.05 mg/L	0.335	0.64%
Ni 231.604†	3615.4	0.9753 mg/L	0.00946	0.9753 mg/L	0.00946	0.97%
Pb 220.353†	14158.2	1.993 mg/L	0.0074	1.993 mg/L	0.0074	0.37%
Sb 206.836†	6101.6	2.131 mg/L	0.0065	2.131 mg/L	0.0065	0.30%
Se 196.026†	2583.5	2.005 mg/L	0.0050	2.005 mg/L	0.0050	0.25%
Si 288.158†	3690.5	2.116 mg/L	0.0215	2.116 mg/L	0.0215	1.02%
Sn 189.927†	3476.1	1.027 mg/L	0.0087	1.027 mg/L	0.0087	0.85%
Sr 421.552†	706618.4	0.9684 mg/L	0.00745	0.9684 mg/L	0.00745	0.77%
Ti 334.903†	18196.1	1.035 mg/L	0.0046	1.035 mg/L	0.0046	0.44%
Tl 190.801†	4281.0	1.995 mg/L	0.0113	1.995 mg/L	0.0113	0.57%
V 292.402†	104696.9	0.9929 mg/L	0.01309	0.9929 mg/L	0.01309	1.32%
Zn 206.200†	3535.7	1.032 mg/L	0.0106	1.032 mg/L	0.0106	1.03%

Sequence No.: 12

Autosampler Location: 1

Sample ID: CB 

Date Collected: 11/27/2012 2:42:54 PM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2349712.4	106.3 %		0.48			0.45%
ScR 361.383	299222.3	108.9 %		0.32			0.29%
Ag 328.068†	28.5	0.00019 mg/L		0.000424	0.00019 mg/L	0.000424	221.51%
Al 308.215†	-9.3	-0.00671 mg/L		0.002988	-0.00671 mg/L	0.002988	44.52%
As 188.979†	3.3	0.00211 mg/L		0.001312	0.00211 mg/L	0.001312	62.07%
B 249.677†	14.3	0.00219 mg/L		0.001159	0.00219 mg/L	0.001159	52.98%
Ba 233.527†	-1.3	-0.00032 mg/L		0.000604	-0.00032 mg/L	0.000604	187.16%
Be 313.042†	-6.2	-0.00001 mg/L		0.000036	-0.00001 mg/L	0.000036	304.01%
Ca 317.933†	-12.9	-0.00106 mg/L		0.000410	-0.00106 mg/L	0.000410	38.65%
Cd 228.802†	-7.0	-0.00029 mg/L		0.000139	-0.00029 mg/L	0.000139	47.94%
Co 228.616†	9.4	0.00028 mg/L		0.000099	0.00028 mg/L	0.000099	35.34%
Cr 267.716†	3.5	0.00063 mg/L		0.001368	0.00063 mg/L	0.001368	215.60%
Cu 324.752†	-767.1	-0.00349 mg/L		0.000054	-0.00349 mg/L	0.000054	1.54%
Fe 273.955†	-2.4	-0.00191 mg/L		0.002227	-0.00191 mg/L	0.002227	116.48%
K 766.490†	-41.8	-0.02400 mg/L		0.007835	-0.02400 mg/L	0.007835	32.64%
Mg 279.077†	-8.1	-0.00681 mg/L		0.002065	-0.00681 mg/L	0.002065	30.31%
Mn 257.610†	0.3	0.00001 mg/L		0.000214	0.00001 mg/L	0.000214	>999.9%
Mo 202.031†	8.3	0.00047 mg/L		0.000361	0.00047 mg/L	0.000361	76.94%
Na 589.592†	23.3	0.00229 mg/L		0.002882	0.00229 mg/L	0.002882	125.73%
Na 330.237†	13.0	0.5186 mg/L		0.44411	0.5186 mg/L	0.44411	85.64%
Ni 231.604†	2.4	0.00064 mg/L		0.002513	0.00064 mg/L	0.002513	391.64%
Pb 220.353†	1.1	0.00016 mg/L		0.000255	0.00016 mg/L	0.000255	155.83%
Sb 206.836†	-2.2	-0.00078 mg/L		0.001074	-0.00078 mg/L	0.001074	137.44%
Se 196.026†	-1.7	-0.00133 mg/L		0.002053	-0.00133 mg/L	0.002053	154.92%
Si 288.158†	5.0	0.00289 mg/L		0.003423	0.00289 mg/L	0.003423	118.42%
Sn 189.927†	2.8	0.00082 mg/L		0.001181	0.00082 mg/L	0.001181	143.65%
Sr 421.552†	40.7	0.00006 mg/L		0.000036	0.00006 mg/L	0.000036	63.91%
Ti 334.903†	5.4	0.00031 mg/L		0.000670	0.00031 mg/L	0.000670	216.91%
Tl 190.801†	9.3	0.00437 mg/L		0.000795	0.00437 mg/L	0.000795	18.21%
V 292.402†	-10.1	-0.00009 mg/L		0.000096	-0.00009 mg/L	0.000096	103.92%
Zn 206.200†	-0.1	-0.00004 mg/L		0.000683	-0.00004 mg/L	0.000683	>999.9%

Sequence No.: 13

Autosampler Location: 338

Sample ID: VS22 E SWC

Date Collected: 11/27/2012 2:47:08 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 E SWC

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: VS22 E SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2351552.4	106.4	%	0.52				0.49%
ScR 361.383	307532.9	112.0	%	2.57				2.30%
Ag 328.068†	6.3	0.00008	mg/L	0.000209	0.00040	mg/L	0.001044	263.00%
Al 308.215†	92622.5	66.57	mg/L	1.903	332.8	mg/L	9.52	2.86%
As 188.979†	-43.4	0.03809	mg/L	0.005627	0.1904	mg/L	0.02814	14.78%
B 249.677†	74.0	0.01124	mg/L	0.001496	0.05621	mg/L	0.007478	13.30%
Ba 233.527†	6779.5	1.702	mg/L	0.0341	8.512	mg/L	0.1705	2.00%
Be 313.042†	981.1	0.00182	mg/L	0.000072	0.00911	mg/L	0.000361	3.96%
Ca 317.933†	337390.0	27.70	mg/L	0.844	138.5	mg/L	4.22	3.05%
Cd 228.802†	437.9	0.01692	mg/L	0.000267	0.08459	mg/L	0.001336	1.58%
Co 228.616†	1122.9	0.02786	mg/L	0.000416	0.1393	mg/L	0.00208	1.49%
Cr 267.716†	463.0	0.08412	mg/L	0.001123	0.4206	mg/L	0.00561	1.33%
Cu 324.752†	11834.6	0.05640	mg/L	0.000413	0.2820	mg/L	0.00207	0.73%
Fe 273.955†	90682.7	72.87	mg/L	2.137	364.3	mg/L	10.69	2.93%
K 766.490†	11041.8	6.341	mg/L	0.2114	31.71	mg/L	1.057	3.33%
Mg 279.077†	18568.3	15.66	mg/L	0.451	78.30	mg/L	2.256	2.88%
Mn 257.610†	126766.2	3.869	mg/L	0.1119	19.35	mg/L	0.559	2.89%
Mo 202.031†	58.9	0.00305	mg/L	0.000366	0.01523	mg/L	0.001830	12.02%
Na 589.592†	6585.8	0.6466	mg/L	0.01847	3.233	mg/L	0.0923	2.86%
Na 330.237†	21.2	1.059	mg/L	0.1562	5.297	mg/L	0.7811	14.75%
Ni 231.604†	267.0	0.07199	mg/L	0.001797	0.3600	mg/L	0.00899	2.50%
Pb 220.353†	5190.9	0.7434	mg/L	0.00586	3.717	mg/L	0.0293	0.79%
Sb 206.836†	11.2	0.00415	mg/L	0.001686	0.02077	mg/L	0.008430	40.58%
Se 196.026†	1.9	0.00136	mg/L	0.001287	0.00682	mg/L	0.006436	94.42%
Si 288.158†	1967.0	1.130	mg/L	0.0173	5.651	mg/L	0.0867	1.53%
Sn 189.927†	-33.3	-0.00603	mg/L	0.001347	-0.03017	mg/L	0.006735	22.33%
Sr 421.552†	188057.8	0.2577	mg/L	0.00732	1.289	mg/L	0.0366	2.84%
Ti 334.903†	41518.2	2.362	mg/L	0.0674	11.81	mg/L	0.337	2.85%
Tl 190.801†	3.8	0.00893	mg/L	0.000331	0.04466	mg/L	0.001654	3.70%
V 292.402†	13722.5	0.1266	mg/L	0.00109	0.6331	mg/L	0.00543	0.86%
Zn 206.200†	3418.2	0.9976	mg/L	0.01804	4.988	mg/L	0.0902	1.81%

Sequence No.: 14

Sample ID: VS22 F SWC

Autosampler Location: 339

Date Collected: 11/27/2012 2:51:09 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 F SWC

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: VS22 F SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2364852.3	107.0 %	0.40			0.38%
ScR 361.383	307168.6	111.8 %	1.03			0.92%
Ag 328.068†	-70.8	-0.00044 mg/L	0.000103	-0.00221 mg/L	0.000517	23.40%
Al 308.215†	130341.2	93.68 mg/L	1.164	468.4 mg/L	5.82	1.24%
As 188.979†	-67.1	0.04748 mg/L	0.001030	0.2374 mg/L	0.000515	2.17%
B 249.677†	66.2	0.01006 mg/L	0.001286	0.05028 mg/L	0.0006430	12.79%
Ba 233.527†	5516.6	1.383 mg/L	0.0111	6.915 mg/L	0.000553	0.80%
Be 313.042†	3381.1	0.00641 mg/L	0.000091	0.03203 mg/L	0.000453	1.42%
Ca 317.933†	260337.0	21.37 mg/L	0.266	106.9 mg/L	1.33	1.25%
Cd 228.802†	365.7	0.01414 mg/L	0.000101	0.07068 mg/L	0.000507	0.72%
Co 228.616†	1124.5	0.02629 mg/L	0.000123	0.1315 mg/L	0.000062	0.47%
Cr 267.716†	365.4	0.06688 mg/L	0.001059	0.3344 mg/L	0.000529	1.58%
Cu 324.752†	34108.8	0.1575 mg/L	0.000088	0.7877 mg/L	0.000441	0.56%
Fe 273.955†	91651.2	73.65 mg/L	1.054	368.2 mg/L	5.27	1.43%
K 766.490†	8628.1	4.955 mg/L	0.0614	24.78 mg/L	0.307	1.24%
Mg 279.077†	14550.5	12.26 mg/L	0.156	61.31 mg/L	0.782	1.28%
Mn 257.610†	153121.2	4.673 mg/L	0.0666	23.37 mg/L	0.333	1.42%
Mo 202.031†	49.8	0.00260 mg/L	0.000443	0.01298 mg/L	0.0002213	17.05%
Na 589.592†	8380.0	0.8227 mg/L	0.00972	4.114 mg/L	0.0486	1.18%
Na 330.237†	17.4	1.103 mg/L	0.3258	5.517 mg/L	1.6288	29.52%
Ni 231.604†	217.0	0.05852 mg/L	0.000707	0.2926 mg/L	0.000354	1.21%
Pb 220.353†	3242.4	0.4755 mg/L	0.00084	2.378 mg/L	0.00042	0.18%
Sb 206.836†	10.7	0.00460 mg/L	0.001143	0.02300 mg/L	0.0005715	24.85%
Se 196.026†	2.7	0.00201 mg/L	0.005501	0.01003 mg/L	0.027507	274.23%
Si 288.158†	2173.5	1.248 mg/L	0.0115	6.241 mg/L	0.000575	0.92%
Sn 189.927†	-21.6	-0.00324 mg/L	0.001380	-0.01618 mg/L	0.0006901	42.65%
Sr 421.552†	219423.5	0.3007 mg/L	0.00368	1.504 mg/L	0.0184	1.22%
Ti 334.903†	56382.3	3.209 mg/L	0.0424	16.05 mg/L	0.212	1.32%
Tl 190.801†	-2.5	0.00609 mg/L	0.000583	0.03045 mg/L	0.0002915	9.57%
V 292.402†	12420.4	0.1139 mg/L	0.00017	0.5694 mg/L	0.000085	0.15%
Zn 206.200†	3352.5	0.9784 mg/L	0.00904	4.892 mg/L	0.0452	0.92%

Sequence No.: 15
Sample ID: VS22 G SWC

Autosampler Location: 340
Date Collected: 11/27/2012 2:55:08 PM
Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 G SWC

Analyte Back Pressure Flow
All 217.0 kPa 0.75 L/min

Mean Data: VS22 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2387215.6	108.0 %		0.57			
ScR 361.383	307097.6	111.8 %		0.24			0.53%
Ag 328.068†	11.4	0.00013 mg/L		0.000243	0.00063 mg/L	0.001217	0.22%
Al 308.215†	136860.6	98.36 mg/L		1.072	491.8 mg/L	5.36	193.90%
As 188.979†	-51.0	0.05849 mg/L		0.004403	0.2925 mg/L	0.02202	1.09%
B 249.677†	75.3	0.01141 mg/L		0.000668	0.05704 mg/L	0.003338	7.53%
Ba 233.527†	9037.9	2.269 mg/L		0.0186	11.35 mg/L	0.003338	5.85%
Be 313.042†	1219.3	0.00226 mg/L		0.000024	0.01130 mg/L	0.000119	0.82%
Ca 317.933†	317368.6	26.06 mg/L		0.344	130.3 mg/L	1.72	1.05%
Cd 228.802†	521.1	0.02003 mg/L		0.000277	0.1001 mg/L	0.00138	1.32%
Co 228.616†	1580.5	0.03945 mg/L		0.000045	0.1973 mg/L	0.00022	1.38%
Cr 267.716†	582.8	0.1055 mg/L		0.000074	0.5273 mg/L	0.00369	0.11%
Cu 324.752†	21189.2	0.09978 mg/L		0.000570	0.4989 mg/L	0.00285	0.70%
Fe 273.955†	121673.4	97.77 mg/L		1.291	488.9 mg/L	6.46	0.57%
K 766.490†	13440.4	7.719 mg/L		0.0877	38.59 mg/L	0.438	1.32%
Mg 279.077†	28503.3	24.05 mg/L		0.226	120.2 mg/L	1.13	1.14%
Mn 257.610†	299774.9	9.150 mg/L		0.1119	45.75 mg/L	0.560	0.94%
Mo 202.031†	67.8	0.00357 mg/L		0.000559	0.01785 mg/L	0.002793	1.22%
Na 589.592†	10661.2	1.047 mg/L		0.0098	5.234 mg/L	0.0488	15.65%
Na 330.237†	33.0	1.560 mg/L		0.2140	7.800 mg/L	1.0700	0.93%
Ni 231.604†	334.3	0.09015 mg/L		0.000488	0.4508 mg/L	0.00244	13.72%
Pb 220.353†	5412.5	0.7811 mg/L		0.00132	3.906 mg/L	0.00666	0.54%
Sb 206.836†	17.2	0.00651 mg/L		0.003691	0.03253 mg/L	0.018454	0.17%
Se 196.026†	8.9	0.00679 mg/L		0.007810	0.03397 mg/L	0.039050	56.72%
Si 288.158†	2526.5	1.452 mg/L		0.0069	7.261 mg/L	0.0344	114.96%
Sn 189.927†	-27.6	-0.00443 mg/L		0.000428	-0.02216 mg/L	0.002138	0.47%
Sr 421.552†	233889.6	0.3205 mg/L		0.00333	1.603 mg/L	0.0167	9.65%
Ti 334.903†	57000.5	3.244 mg/L		0.0393	16.22 mg/L	0.196	1.04%
Tl 190.801†	-7.6	0.00604 mg/L		0.000491	0.03019 mg/L	0.002455	1.21%
V 292.402†	17892.8	0.1655 mg/L		0.00033	0.8277 mg/L	0.00164	8.13%
Zn 206.200†	5209.1	1.520 mg/L		0.0159	7.601 mg/L	0.0797	0.20%
							1.05%

Sequence No.: 16
 Sample ID: VS22 H SWC

Autosampler Location: 341
 Date Collected: 11/27/2012 2:59:07 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 H SWC

Analyte Back Pressure Flow
 All 216.0 kPa 0.75 L/min

Mean Data: VS22 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2394924.3	108.3 %		0.29			
ScR 361.383	305821.3	111.3 %		0.43			0.27%
Ag 328.068†	-80.7	-0.00050 mg/L		0.000285	-0.00249 mg/L	0.001424	0.39%
Al 308.215†	112659.5	80.97 mg/L		0.497	404.8 mg/L	2.49	57.11%
As 188.979†	-50.0	0.06267 mg/L		0.003557	0.3133 mg/L	0.01778	0.61%
B 249.677†	62.9	0.00952 mg/L		0.000873	0.04760 mg/L	0.004365	5.68%
Ba 233.527†	6094.7	1.527 mg/L		0.0120	7.633 mg/L	0.000598	9.17%
Be 313.042†	1009.8	0.00186 mg/L		0.000009	0.00931 mg/L	0.000043	0.78%
Ca 317.933†	232853.3	19.12 mg/L		0.138	95.59 mg/L	0.688	0.47%
Cd 228.802†	334.7	0.01270 mg/L		0.000096	0.06350 mg/L	0.000482	0.72%
Co 228.616†	1450.2	0.03552 mg/L		0.000108	0.1776 mg/L	0.000054	0.76%
Cr 267.716†	506.6	0.09227 mg/L		0.000750	0.4613 mg/L	0.000375	0.30%
Cu 324.752†	13290.7	0.06353 mg/L		0.000656	0.3176 mg/L	0.000328	0.81%
Fe 273.955†	111207.8	89.36 mg/L		0.765	446.8 mg/L	3.82	1.03%
K 766.490†	11272.5	6.474 mg/L		0.0375	32.37 mg/L	0.188	0.86%
Mg 279.077†	21879.7	18.45 mg/L		0.147	92.25 mg/L	0.737	0.58%
Mn 257.610†	189679.5	5.790 mg/L		0.0451	28.95 mg/L	0.226	0.80%
Mo 202.031†	51.7	0.00273 mg/L		0.000254	0.01364 mg/L	0.001272	0.78%
Na 589.592†	9772.3	0.9594 mg/L		0.00605	4.797 mg/L	0.0303	9.33%
Na 330.237†	30.8	1.659 mg/L		0.1705	8.295 mg/L	0.8527	0.63%
Ni 231.604†	278.5	0.07510 mg/L		0.000522	0.3755 mg/L	0.00261	10.28%
Pb 220.353†	7291.3	1.042 mg/L		0.0032	5.208 mg/L	0.00159	0.69%
Sb 206.836†	22.5	0.00854 mg/L		0.000600	0.04271 mg/L	0.002999	0.30%
Se 196.026†	8.0	0.00610 mg/L		0.002951	0.03052 mg/L	0.014757	7.02%
Si 288.158†	2130.7	1.224 mg/L		0.0056	6.122 mg/L	0.0282	48.34%
Sn 189.927†	-21.1	-0.00335 mg/L		0.000278	-0.01674 mg/L	0.001391	0.46%
Sr 421.552†	129633.4	0.1777 mg/L		0.00115	0.8883 mg/L	0.00573	8.31%
Ti 334.903†	58911.9	3.353 mg/L		0.0228	16.77 mg/L	0.114	0.65%
Tl 190.801†	0.1	0.00880 mg/L		0.002089	0.04401 mg/L	0.010445	0.68%
V 292.402†	15910.8	0.1465 mg/L		0.00111	0.7324 mg/L	0.00555	23.73%
Zn 206.200†	3507.3	1.024 mg/L		0.0085	5.118 mg/L	0.0425	0.76%
							0.83%

Sequence No.: 17
 Sample ID: VS22 I SWC

Autosampler Location: 342
 Date Collected: 11/27/2012 3:03:07 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 I SWC

Analyte Back Pressure Flow
 All 218.0 kPa 0.75 L/min

Mean Data: VS22 I SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2392933.0	108.2 %	0.33			0.30%
ScR 361.383	305293.9	111.2 %	0.65			0.59%
Ag 328.068†	-19.7	-0.00009 mg/L	0.000126	-0.00045 mg/L	0.000631	139.07%
Al 308.215†	143781.5	103.3 mg/L	0.52	516.7 mg/L	2.60	0.50%
As 188.979†	-79.6	0.04498 mg/L	0.002199	0.2249 mg/L	0.01100	4.89%
B 249.677†	64.7	0.00978 mg/L	0.001321	0.04890 mg/L	0.006607	13.51%
Ba 233.527†	6409.1	1.604 mg/L	0.0165	8.018 mg/L	0.0826	1.03%
Be 313.042†	1424.8	0.00266 mg/L	0.000029	0.01328 mg/L	0.000146	1.10%
Ca 317.933†	225284.1	18.50 mg/L	0.122	92.48 mg/L	0.609	0.66%
Cd 228.802†	215.0	0.00799 mg/L	0.000013	0.03994 mg/L	0.000063	0.16%
Co 228.616†	1736.8	0.04378 mg/L	0.000298	0.2189 mg/L	0.00149	0.68%
Cr 267.716†	594.0	0.1082 mg/L	0.00170	0.5409 mg/L	0.00852	1.58%
Cu 324.752†	16343.2	0.07806 mg/L	0.000780	0.3903 mg/L	0.00390	1.00%
Fe 273.955†	130028.8	104.5 mg/L	0.72	522.4 mg/L	3.58	0.69%
K 766.490†	11115.6	6.384 mg/L	0.0500	31.92 mg/L	0.250	0.78%
Mg 279.077†	21719.6	18.31 mg/L	0.207	91.54 mg/L	1.036	1.13%
Mn 257.610†	355989.5	10.87 mg/L	0.066	54.33 mg/L	0.331	0.61%
Mo 202.031†	67.2	0.00361 mg/L	0.000102	0.01807 mg/L	0.000508	2.81%
Na 589.592†	7523.6	0.7387 mg/L	0.00261	3.693 mg/L	0.0131	0.35%
Na 330.237†	13.5	1.103 mg/L	0.1831	5.516 mg/L	0.9153	16.59%
Ni 231.604†	498.0	0.1343 mg/L	0.00226	0.6716 mg/L	0.01129	1.68%
Pb 220.353†	1849.5	0.2808 mg/L	0.00098	1.404 mg/L	0.0049	0.35%
Sb 206.836†	10.2	0.00401 mg/L	0.001290	0.02006 mg/L	0.006451	32.16%
Se 196.026†	14.4	0.01111 mg/L	0.002081	0.05556 mg/L	0.010403	18.72%
Si 288.158†	1681.8	0.9669 mg/L	0.01064	4.834 mg/L	0.0532	1.10%
Sn 189.927†	-23.5	-0.00416 mg/L	0.000486	-0.02079 mg/L	0.002430	11.69%
Sr 421.552†	151647.4	0.2078 mg/L	0.00096	1.039 mg/L	0.0048	0.46%
Ti 334.903†	59712.9	3.399 mg/L	0.0147	16.99 mg/L	0.073	0.43%
Tl 190.801†	-12.6	0.00447 mg/L	0.002263	0.02234 mg/L	0.011313	50.64%
V 292.402†	15140.9	0.1395 mg/L	0.00141	0.6975 mg/L	0.00703	1.01%
Zn 206.200†	2206.9	0.6441 mg/L	0.00682	3.220 mg/L	0.0341	1.06%

Sequence No.: 18
Sample ID: VS22 J SWC

Autosampler Location: 343
Date Collected: 11/27/2012 3:07:06 PM
Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 J SWC

Analyte Back Pressure Flow
All 217.0 kPa 0.75 L/min

Mean Data: VS22 J SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2401228.4	108.6 %		0.13			0.12%
ScR 361.383	307527.4	112.0 %		1.12			1.00%
Ag 328.068†	24.7	0.00021 mg/L		0.000220	0.00104 mg/L	0.001101	105.90%
Al 308.215†	129885.2	93.35 mg/L		0.495	466.7 mg/L	2.47	0.53%
As 188.979†	-30.9	0.06717 mg/L		0.001927	0.3359 mg/L	0.00964	2.87%
B 249.677†	39.7	0.00597 mg/L		0.000497	0.02985 mg/L	0.002483	8.32%
Ba 233.527†	6526.9	1.635 mg/L		0.0176	8.175 mg/L	0.0880	1.08%
Be 313.042†	1180.3	0.00219 mg/L		0.000043	0.01096 mg/L	0.000214	1.95%
Ca 317.933†	264356.5	21.70 mg/L		0.102	108.5 mg/L	0.51	0.47%
Cd 228.802†	494.8	0.01894 mg/L		0.000124	0.09468 mg/L	0.000621	0.66%
Co 228.616†	1527.9	0.03828 mg/L		0.000266	0.1914 mg/L	0.00133	0.69%
Cr 267.716†	528.8	0.09598 mg/L		0.001543	0.4799 mg/L	0.00771	1.61%
Cu 324.752†	16914.2	0.08023 mg/L		0.000505	0.4011 mg/L	0.00252	0.63%
Fe 273.955†	116948.6	93.98 mg/L		0.417	469.9 mg/L	2.08	0.44%
K 766.490†	10125.1	5.815 mg/L		0.0717	29.07 mg/L	0.359	1.23%
Mg 279.077†	25947.7	21.89 mg/L		0.261	109.4 mg/L	1.30	1.19%
Mn 257.610†	241159.9	7.361 mg/L		0.0315	36.80 mg/L	0.157	0.43%
Mo 202.031†	77.2	0.00415 mg/L		0.000067	0.02076 mg/L	0.000333	1.60%
Na 589.592†	7582.9	0.7445 mg/L		0.00402	3.722 mg/L	0.0201	0.54%
Na 330.237†	20.3	1.108 mg/L		0.2821	5.539 mg/L	1.4104	25.47%
Ni 231.604†	332.5	0.08967 mg/L		0.000782	0.4484 mg/L	0.00391	0.87%
Pb 220.353†	5745.0	0.8269 mg/L		0.00291	4.134 mg/L	0.0146	0.35%
Sb 206.836†	21.2	0.00790 mg/L		0.000647	0.03949 mg/L	0.003236	8.20%
Se 196.026†	1.6	0.00114 mg/L		0.004830	0.00569 mg/L	0.024150	424.24%
Si 288.158†	3552.8	2.040 mg/L		0.0314	10.20 mg/L	0.157	1.54%
Sn 189.927†	-23.3	-0.00371 mg/L		0.001372	-0.01857 mg/L	0.006859	36.93%
Sr 421.552†	170266.3	0.2333 mg/L		0.00139	1.167 mg/L	0.0069	0.59%
Ti 334.903†	54223.5	3.086 mg/L		0.0157	15.43 mg/L	0.079	0.51%
Tl 190.801†	-2.3	0.00817 mg/L		0.003417	0.04085 mg/L	0.017084	41.82%
V 292.402†	15474.8	0.1426 mg/L		0.00058	0.7131 mg/L	0.00289	0.40%
Zn 206.200†	4227.8	1.234 mg/L		0.0132	6.170 mg/L	0.0662	1.07%

Sequence No.: 19

Sample ID: VS22 K SWC

Autosampler Location: 344

Date Collected: 11/27/2012 3:11:05 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 K SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VS22 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2419803.8	109.4 %	0.33			0.30%
ScR 361.383	306853.0	111.7 %	0.86			0.77%
Ag 328.068†	-58.5	-0.00034 mg/L	0.000180	-0.00171 mg/L	0.000901	52.62%
Al 308.215†	115636.1	83.11 mg/L	0.539	415.5 mg/L	2.69	0.65%
As 188.979†	-133.3	0.01938 mg/L	0.001422	0.09691 mg/L	0.007111	7.34%
B 249.677†	48.3	0.00729 mg/L	0.000304	0.03645 mg/L	0.001522	4.17%
Ba 233.527†	4348.3	1.085 mg/L	0.0098	5.423 mg/L	0.0489	0.90%
Be 313.042†	1540.2	0.00287 mg/L	0.000041	0.01433 mg/L	0.000206	1.44%
Ca 317.933†	313460.3	25.74 mg/L	0.216	128.7 mg/L	1.08	0.84%
Cd 228.802†	239.7	0.00925 mg/L	0.000192	0.04627 mg/L	0.000958	2.07%
Co 228.616†	1437.3	0.03444 mg/L	0.000322	0.1722 mg/L	0.00161	0.94%
Cr 267.716†	522.8	0.09512 mg/L	0.000289	0.4756 mg/L	0.00144	0.30%
Cu 324.752†	19464.8	0.09157 mg/L	0.000445	0.4578 mg/L	0.00223	0.49%
Fe 273.955†	113576.3	91.27 mg/L	0.926	456.3 mg/L	4.63	1.02%
K 766.490†	8481.4	4.871 mg/L	0.0295	24.35 mg/L	0.148	0.61%
Mg 279.077†	25985.9	21.92 mg/L	0.145	109.6 mg/L	0.72	0.66%
Mn 257.610†	110436.3	3.371 mg/L	0.0318	16.85 mg/L	0.159	0.94%
Mo 202.031†	53.0	0.00273 mg/L	0.000048	0.01364 mg/L	0.000241	1.77%
Na 589.592†	7974.3	0.7829 mg/L	0.00540	3.915 mg/L	0.0270	0.69%
Na 330.237†	10.5	1.051 mg/L	0.1676	5.255 mg/L	0.8379	15.95%
Ni 231.604†	239.3	0.06455 mg/L	0.000210	0.3227 mg/L	0.00105	0.33%
Pb 220.353†	2675.5	0.3926 mg/L	0.00152	1.963 mg/L	0.0076	0.39%
Sb 206.836†	7.4	0.00343 mg/L	0.001753	0.01717 mg/L	0.008766	51.05%
Se 196.026†	10.5	0.00802 mg/L	0.003281	0.04008 mg/L	0.016403	40.92%
Si 288.158†	2375.8	1.365 mg/L	0.0104	6.827 mg/L	0.0520	0.76%
Sn 189.927†	-31.4	-0.00553 mg/L	0.000808	-0.02764 mg/L	0.004038	14.61%
Sr 421.552†	379107.5	0.5196 mg/L	0.00365	2.598 mg/L	0.0182	0.70%
Ti 334.903†	65376.7	3.721 mg/L	0.0247	18.60 mg/L	0.124	0.66%
Tl 190.801†	-7.1	0.00556 mg/L	0.000647	0.02781 mg/L	0.003237	11.64%
V 292.402†	18411.3	0.1695 mg/L	0.00083	0.8473 mg/L	0.00416	0.49%
Zn 206.200†	2233.4	0.6518 mg/L	0.00672	3.259 mg/L	0.0336	1.03%

Sequence No.: 20

Sample ID: VS22 L SWC

Autosampler Location: 345

Date Collected: 11/27/2012 3:15:05 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 L SWC

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: VS22 L SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2385751.4	107.9 %	0.64			0.59%
ScR 361.383	299584.2	109.1 %	0.25			0.23%
Ag 328.068†	-47.2	-0.00028 mg/L	0.000427	-0.00142 mg/L	0.002137	150.65%
Al 308.215†	71454.7	51.35 mg/L	0.290	256.8 mg/L	1.45	0.57%
As 188.979†	-62.1	0.02877 mg/L	0.000791	0.1439 mg/L	0.00395	2.75%
B 249.677†	164.9	0.02514 mg/L	0.000226	0.1257 mg/L	0.00113	0.90%
Ba 233.527†	4592.7	1.151 mg/L	0.0061	5.755 mg/L	0.0307	0.53%
Be 313.042†	1000.4	0.00186 mg/L	0.000016	0.00930 mg/L	0.000080	0.86%
Ca 317.933†	1105689.6	90.78 mg/L	0.246	453.9 mg/L	1.23	0.27%
Cd 228.802†	407.9	0.01589 mg/L	0.000213	0.07946 mg/L	0.001067	1.34%
Co 228.616†	1102.5	0.02699 mg/L	0.000427	0.1350 mg/L	0.00214	1.58%
Cr 267.716†	485.4	0.08695 mg/L	0.000394	0.4348 mg/L	0.00197	0.45%
Cu 324.752†	27469.1	0.1270 mg/L	0.00179	0.6350 mg/L	0.00896	1.41%
Fe 273.955†	79011.8	63.49 mg/L	0.364	317.5 mg/L	1.82	0.57%
K 766.490†	9472.3	5.440 mg/L	0.0445	27.20 mg/L	0.222	0.82%
Mg 279.077†	21050.5	17.76 mg/L	0.096	88.82 mg/L	0.482	0.54%
Mn 257.610†	153052.2	4.671 mg/L	0.0318	23.36 mg/L	0.159	0.68%
Mo 202.031†	96.1	0.00448 mg/L	0.000304	0.02240 mg/L	0.001520	6.79%
Na 589.592†	10784.6	1.059 mg/L	0.0032	5.294 mg/L	0.0162	0.31%
Na 330.237†	30.2	1.424 mg/L	0.2440	7.121 mg/L	1.2202	17.13%
Ni 231.604†	229.0	0.06176 mg/L	0.000246	0.3088 mg/L	0.00123	0.40%
Pb 220.353†	4582.9	0.6545 mg/L	0.00705	3.272 mg/L	0.0353	1.08%
Sb 206.836†	15.3	0.00553 mg/L	0.003832	0.02764 mg/L	0.019160	69.32%
Se 196.026†	-7.6	-0.00597 mg/L	0.005793	-0.02984 mg/L	0.028967	97.06%
Si 288.158†	2105.2	1.210 mg/L	0.0018	6.049 mg/L	0.0089	0.15%
Sn 189.927†	-52.2	-0.00376 mg/L	0.001115	-0.01882 mg/L	0.005574	29.61%
Sr 421.552†	666046.1	0.9128 mg/L	0.00142	4.564 mg/L	0.0071	0.16%
Ti 334.903†	45433.2	2.582 mg/L	0.0150	12.91 mg/L	0.075	0.58%
Tl 190.801†	12.2	0.01191 mg/L	0.002231	0.05955 mg/L	0.011153	18.73%
V 292.402†	12335.2	0.1139 mg/L	0.00159	0.5694 mg/L	0.00795	1.40%
Zn 206.200†	3862.7	1.127 mg/L	0.0047	5.637 mg/L	0.0237	0.42%

Sequence No.: 21

Sample ID: CV 10

Autosampler Location: 7

Date Collected: 11/27/2012 3:19:19 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2351694.9	106.4 %		0.99			
ScR 361.383	297514.0	108.3 %		1.45			0.93%
Ag 328.068†	153080.2	1.029 mg/L		0.0108	1.029 mg/L	0.0108	1.34%
Al 308.215†	2778.4	1.963 mg/L		0.0136	1.963 mg/L	0.0136	1.05%
As 188.979†	3179.3	2.067 mg/L		0.0332	2.067 mg/L	0.0332	0.69%
B 249.677†	6275.0	0.9580 mg/L		0.01414	0.9580 mg/L	0.01414	1.60%
Ba 233.527†	3903.9	0.9867 mg/L		0.01214	0.9867 mg/L	0.01214	1.48%
Be 313.042†	514447.6	0.9838 mg/L		0.01120	0.9838 mg/L	0.01120	1.23%
Ca 317.933†	24896.9	2.044 mg/L		0.0299	2.044 mg/L	0.0299	1.14%
Cd 228.802†	26151.7	1.025 mg/L		0.0130	1.025 mg/L	0.0130	1.46%
Co 228.616†	33674.6	1.003 mg/L		0.0123	1.003 mg/L	0.0123	1.27%
Cr 267.716†	5596.9	1.006 mg/L		0.0121	1.006 mg/L	0.0121	1.23%
Cu 324.752†	221361.8	1.006 mg/L		0.0111	1.006 mg/L	0.0111	1.20%
Fe 273.955†	2552.7	2.044 mg/L		0.0297	2.044 mg/L	0.0297	1.10%
K 766.490†	34552.3	19.84 mg/L		0.328	19.84 mg/L	0.328	1.45%
Mg 279.077†	2341.8	1.987 mg/L		0.0252	1.987 mg/L	0.0252	1.65%
Mn 257.610†	33648.7	1.027 mg/L		0.0151	1.027 mg/L	0.0151	1.27%
Mo 202.031†	17589.4	1.000 mg/L		0.0121	1.000 mg/L	0.0121	1.47%
Na 589.592†	496393.0	48.74 mg/L		0.638	48.74 mg/L	0.638	1.21%
Na 330.237†	1291.9	51.61 mg/L		0.957	51.61 mg/L	0.957	1.31%
Ni 231.604†	3599.0	0.9709 mg/L		0.01182	0.9709 mg/L	0.01182	1.85%
Pb 220.353†	14217.5	2.001 mg/L		0.0250	2.001 mg/L	0.0250	1.22%
Sb 206.836†	6070.8	2.120 mg/L		0.0308	2.120 mg/L	0.0308	1.25%
Se 196.026†	2555.2	1.983 mg/L		0.0308	1.983 mg/L	0.0308	1.45%
Si 288.158†	3658.4	2.098 mg/L		0.0255	2.098 mg/L	0.0255	1.55%
Sn 189.927†	3481.5	1.028 mg/L		0.0149	1.028 mg/L	0.0149	1.21%
Sr 421.552†	704808.0	0.9659 mg/L		0.01382	0.9659 mg/L	0.01382	1.45%
Ti 334.903†	18759.0	1.067 mg/L		0.0155	1.067 mg/L	0.0155	1.43%
Tl 190.801†	4269.6	1.989 mg/L		0.0295	1.989 mg/L	0.0295	1.45%
V 292.402†	103969.6	0.9860 mg/L		0.01217	0.9860 mg/L	0.01217	1.48%
Zn 206.200†	3518.2	1.027 mg/L		0.0168	1.027 mg/L	0.0168	1.23%
							1.64%

Sequence No.: 22

Sample ID: CB 7

Autosampler Location: 1

Date Collected: 11/27/2012 3:23:39 PM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2359509.2	106.7	%	0.30				
ScR 361.383	296045.4	107.8	%	0.82				
Ag 328.068†	-30.1	-0.00020	mg/L	0.000145	-0.00020	mg/L	0.000145	0.28%
Al 308.215†	-5.4	-0.00385	mg/L	0.002933	-0.00385	mg/L	0.002933	0.76%
As 188.979†	5.1	0.00324	mg/L	0.001315	0.00324	mg/L	0.001315	71.71%
B 249.677†	8.9	0.00136	mg/L	0.001624	0.00136	mg/L	0.001315	76.16%
Ba 233.527†	0.7	0.00017	mg/L	0.000835	0.00136	mg/L	0.001624	40.65%
Be 313.042†	-11.4	-0.00002	mg/L	0.000012	0.00017	mg/L	0.001624	119.13%
Ca 317.933†	1.6	0.00013	mg/L	0.000945	-0.00002	mg/L	0.000835	483.77%
Cd 228.802†	-6.7	-0.00029	mg/L	0.000107	0.00013	mg/L	0.000945	53.46%
Co 228.616†	8.7	0.00026	mg/L	0.000158	-0.00029	mg/L	0.000945	719.11%
Cr 267.716†	5.3	0.00096	mg/L	0.000526	0.00026	mg/L	0.000107	37.06%
Cu 324.752†	-797.7	-0.00363	mg/L	0.000043	0.00096	mg/L	0.000158	60.78%
Fe 273.955†	-1.2	-0.00098	mg/L	0.000813	-0.00363	mg/L	0.000526	55.00%
K 766.490†	-32.3	-0.01853	mg/L	0.005040	-0.00098	mg/L	0.000043	1.18%
Mg 279.077†	-2.9	-0.00242	mg/L	0.003151	-0.01853	mg/L	0.000813	82.88%
Mn 257.610†	5.6	0.00017	mg/L	0.000037	-0.00242	mg/L	0.005040	27.19%
Mo 202.031†	4.1	0.00023	mg/L	0.000332	0.00017	mg/L	0.003151	130.31%
Na 589.592†	58.4	0.00574	mg/L	0.005052	0.00023	mg/L	0.000037	21.31%
Na 330.237†	2.9	0.1164	mg/L	0.23288	0.00023	mg/L	0.000332	143.21%
Ni 231.604†	3.5	0.00094	mg/L	0.001483	0.00574	mg/L	0.005052	88.09%
Pb 220.353†	9.1	0.00128	mg/L	0.000550	0.1164	mg/L	0.23288	200.03%
Sb 206.836†	-1.3	-0.00046	mg/L	0.000837	0.00094	mg/L	0.001483	157.56%
Se 196.026†	-4.7	-0.00363	mg/L	0.001580	0.00128	mg/L	0.000550	42.81%
Si 288.158†	-3.7	-0.00210	mg/L	0.002617	-0.00046	mg/L	0.000837	182.15%
Sn 189.927†	2.7	0.00079	mg/L	0.001544	-0.00363	mg/L	0.001580	43.55%
Sr 421.552†	80.7	0.00011	mg/L	0.000027	-0.00210	mg/L	0.002617	124.49%
Ti 334.903†	-9.4	-0.00053	mg/L	0.000760	0.00079	mg/L	0.001544	195.28%
Tl 190.801†	9.0	0.00422	mg/L	0.000937	0.00011	mg/L	0.000027	24.67%
V 292.402†	7.5	0.00008	mg/L	0.000084	-0.00053	mg/L	0.000760	142.41%
Zn 206.200†	-1.4	-0.00041	mg/L	0.000751	0.00422	mg/L	0.000937	22.22%
					-0.00008	mg/L	0.000084	111.01%
					-0.00041	mg/L	0.000751	183.32%

Sequence No.: 23

Sample ID: CRI

Autosampler Location: 301

Date Collected: 11/27/2012 3:27:53 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2347879.1	106.2	%	1.30				
ScR 361.383	298076.8	108.5	%	1.26				
Ag 328.068†	442.2	0.00297	mg/L	0.000022	0.00297	mg/L	0.000022	0.75%
Al 308.215†	58.3	0.04176	mg/L	0.003169	0.04176	mg/L	0.003169	7.59%
As 188.979†	78.4	0.05039	mg/L	0.000187	0.05039	mg/L	0.000187	0.37%
B 249.677†	129.2	0.01974	mg/L	0.001423	0.01974	mg/L	0.001423	7.21%
Ba 233.527†	11.3	0.00284	mg/L	0.000821	0.00284	mg/L	0.000821	28.87%
Be 313.042†	472.0	0.00090	mg/L	0.000013	0.00090	mg/L	0.000013	1.44%
Ca 317.933†	599.1	0.04919	mg/L	0.001144	0.04919	mg/L	0.001144	2.33%
Cd 228.802†	54.2	0.00183	mg/L	0.000231	0.00183	mg/L	0.000231	12.67%
Co 228.616†	127.1	0.00379	mg/L	0.000035	0.00379	mg/L	0.000035	0.92%
Cr 267.716†	31.5	0.00565	mg/L	0.000591	0.00565	mg/L	0.000591	10.45%
Fe 273.955†	-358.9	0.00163	mg/L	0.000137	-0.00163	mg/L	0.000137	8.38%
K 766.490†	62.0	0.04980	mg/L	0.000618	0.04980	mg/L	0.000618	1.24%
Mg 279.077†	784.4	0.4505	mg/L	0.03770	0.4505	mg/L	0.03770	8.37%
Mn 257.610†	56.5	0.04776	mg/L	0.007262	0.04776	mg/L	0.007262	15.21%
Mo 202.031†	37.3	0.00114	mg/L	0.000156	0.00114	mg/L	0.000156	13.67%
Na 589.592†	87.7	0.00499	mg/L	0.000100	0.00499	mg/L	0.000100	2.00%
Na 330.237†	4730.0	0.4644	mg/L	0.00398	0.4644	mg/L	0.00398	0.86%
Ni 231.604†	16.4	0.6549	mg/L	0.59514	0.6549	mg/L	0.59514	90.88%
Pb 220.353†	38.0	0.01026	mg/L	0.002040	0.01026	mg/L	0.002040	19.87%
Sb 206.836†	147.0	0.02071	mg/L	0.000496	0.02071	mg/L	0.000496	2.39%
Se 196.026†	140.8	0.04921	mg/L	0.000758	0.04921	mg/L	0.000758	1.54%
Si 288.158†	61.2	0.04753	mg/L	0.001930	0.04753	mg/L	0.001930	4.06%
Sn 189.927†	110.1	0.06312	mg/L	0.002676	0.06312	mg/L	0.002676	4.24%
Sr 421.552†	34.6	0.01022	mg/L	0.000494	0.01022	mg/L	0.000494	4.84%
Ti 334.903†	699.7	0.00096	mg/L	0.000052	0.00096	mg/L	0.000052	5.44%
Tl 190.801†	55.1	0.00313	mg/L	0.001299	0.00313	mg/L	0.001299	41.48%
V 292.402†	111.9	0.05235	mg/L	0.001142	0.05235	mg/L	0.001142	2.18%
Zn 206.200†	317.1	0.00302	mg/L	0.000165	0.00302	mg/L	0.000165	5.47%
	33.3	0.00973	mg/L	0.000681	0.00973	mg/L	0.000681	7.00%

Sequence No.: 24
Sample ID: ICSA

Autosampler Location: 302
Date Collected: 11/27/2012 3:32:08 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 218.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2331685.5	105.5	%	0.66				
ScR 361.383	293622.7	106.9	%	0.20				0.63%
Ag 328.068†	-178.9	-0.00120	mg/L	0.000301	-0.00120	mg/L	0.000301	25.11%
Al 308.215†	272104.4	195.6	mg/L	0.96	195.6	mg/L	0.96	0.49%
As 188.979†	30.3	0.01385	mg/L	0.001543	0.01385	mg/L	0.001543	11.14%
B 249.677†	-33.7	-0.00515	mg/L	0.001699	-0.00515	mg/L	0.001699	33.01%
Ba 233.527†	113.1	-0.00342	mg/L	0.000052	-0.00342	mg/L	0.000052	1.52%
Be 313.042†	25.7	0.00005	mg/L	0.000016	0.00005	mg/L	0.000016	33.41%
Ca 317.933†	1199905.4	98.52	mg/L	0.928	98.52	mg/L	0.928	0.94%
Cd 228.802†	43.8	-0.00025	mg/L	0.000020	-0.00025	mg/L	0.000020	8.11%
Co 228.616†	67.2	-0.00055	mg/L	0.000148	-0.00055	mg/L	0.000148	26.89%
Cr 267.716†	13.0	0.00031	mg/L	0.000618	0.00031	mg/L	0.000618	201.67%
Cu 324.752†	-2566.4	-0.00388	mg/L	0.000039	-0.00388	mg/L	0.000039	1.00%
Fe 273.955†	243351.2	195.6	mg/L	2.58	195.6	mg/L	2.58	1.32%
K 766.490†	-22.4	-0.01288	mg/L	0.016615	-0.01288	mg/L	0.016615	128.98%
Mg 279.077†	120557.0	101.8	mg/L	0.31	101.8	mg/L	0.31	0.31%
Mn 257.610†	38.6	0.00116	mg/L	0.000293	0.00116	mg/L	0.000293	25.18%
Mo 202.031†	50.0	0.00178	mg/L	0.000294	0.00178	mg/L	0.000294	16.55%
Na 589.592†	138.8	0.01363	mg/L	0.003605	0.01363	mg/L	0.003605	26.45%
Na 330.237†	8.7	0.3486	mg/L	0.32708	0.3486	mg/L	0.32708	93.84%
Ni 231.604†	4.5	0.00122	mg/L	0.000795	0.00122	mg/L	0.000795	65.15%
Pb 220.353†	-304.6	-0.00409	mg/L	0.002380	-0.00409	mg/L	0.002380	58.20%
Sb 206.836†	29.7	0.01021	mg/L	0.001660	0.01021	mg/L	0.001660	16.25%
Se 196.026†	10.0	0.00774	mg/L	0.003799	0.00774	mg/L	0.003799	49.11%
Si 288.158†	-23.9	-0.00136	mg/L	0.001626	-0.00136	mg/L	0.001626	119.93%
Sn 189.927†	-67.1	-0.00760	mg/L	0.002590	-0.00760	mg/L	0.002590	34.05%
Sr 421.552†	2856.8	0.00392	mg/L	0.000019	0.00392	mg/L	0.000019	0.49%
Ti 334.903†	90.2	0.00043	mg/L	0.000281	0.00043	mg/L	0.000281	65.66%
Tl 190.801†	-32.1	0.00586	mg/L	0.002216	0.00586	mg/L	0.002216	37.84%
V 292.402†	1241.0	0.00489	mg/L	0.000165	0.00489	mg/L	0.000165	3.36%
Zn 206.200†	9.4	0.00274	mg/L	0.000479	0.00274	mg/L	0.000479	17.47%

Sequence No.: 25

Autosampler Location: 303

Sample ID: ICSAB

Date Collected: 11/27/2012 3:36:23 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	216.0 kPa	0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2362066.1	106.8	%	0.26				0.25%
ScR 361.383	296370.7	107.9	%	0.67				0.62%
Ag 328.068†	148327.3	0.9967	mg/L	0.00218	0.9967	mg/L	0.00218	0.22%
Al 308.215†	269907.1	194.0	mg/L	0.87	194.0	mg/L	0.87	0.45%
As 188.979†	1602.3	1.022	mg/L	0.0070	1.022	mg/L	0.0070	0.68%
B 249.677†	-8.7	-0.00327	mg/L	0.001180	-0.00327	mg/L	0.001180	36.12%
Ba 233.527†	4010.8	0.9821	mg/L	0.00330	0.9821	mg/L	0.00330	0.34%
Be 313.042†	515139.1	0.9851	mg/L	0.00462	0.9851	mg/L	0.00462	0.47%
Ca 317.933†	1198555.1	98.41	mg/L	0.486	98.41	mg/L	0.486	0.49%
Cd 228.802†	25432.3	1.001	mg/L	0.0021	1.001	mg/L	0.0021	0.21%
Co 228.616†	31584.6	0.9403	mg/L	0.00147	0.9403	mg/L	0.00147	0.16%
Cr 267.716†	5628.4	1.010	mg/L	0.0036	1.010	mg/L	0.0036	0.36%
Cu 324.752†	213762.0	0.9797	mg/L	0.00112	0.9797	mg/L	0.00112	0.11%
Fe 273.955†	242841.4	195.1	mg/L	0.93	195.1	mg/L	0.93	0.48%
K 766.490†	-116.6	-0.06695	mg/L	0.009025	-0.06695	mg/L	0.009025	13.48%
Mg 279.077†	115297.6	97.38	mg/L	0.537	97.38	mg/L	0.537	0.55%
Mn 257.610†	31846.7	0.9722	mg/L	0.00395	0.9722	mg/L	0.00395	0.41%
Mo 202.031†	47.3	0.00157	mg/L	0.000422	0.00157	mg/L	0.000422	26.86%
Na 589.592†	267.7	0.02628	mg/L	0.002256	0.02628	mg/L	0.002256	8.59%
Na 330.237†	23.0	0.6073	mg/L	0.18615	0.6073	mg/L	0.18615	30.65%
Ni 231.604†	3492.5	0.9420	mg/L	0.00370	0.9420	mg/L	0.00370	0.39%
Pb 220.353†	6572.8	0.9638	mg/L	0.00556	0.9638	mg/L	0.00556	0.58%
Sb 206.836†	2899.7	1.002	mg/L	0.0084	1.002	mg/L	0.0084	0.84%
Se 196.026†	1259.0	0.9767	mg/L	0.00513	0.9767	mg/L	0.00513	0.53%
Si 288.158†	-35.2	-0.00477	mg/L	0.000240	-0.00477	mg/L	0.000240	5.02%
Sn 189.927†	-71.1	-0.00829	mg/L	0.000713	-0.00829	mg/L	0.000713	8.60%
Sr 421.552†	2826.6	0.00387	mg/L	0.000047	0.00387	mg/L	0.000047	1.22%
Ti 334.903†	98.5	0.00071	mg/L	0.000050	0.00071	mg/L	0.000050	7.16%
Tl 190.801†	1934.7	0.9172	mg/L	0.00278	0.9172	mg/L	0.00278	0.30%
V 292.402†	99216.3	0.9344	mg/L	0.00028	0.9344	mg/L	0.00028	0.03%
Zn 206.200†	3282.6	0.9580	mg/L	0.00201	0.9580	mg/L	0.00201	0.21%

Sequence No.: 26

Sample ID: CV JJ

Autosampler Location: 7

Date Collected: 11/27/2012 3:40:12 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std. Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2376416.7		107.5 %	0.73				0.68%
ScR 361.383	299261.6		109.0 %	2.08				1.91%
Ag 328.068†	151962.4		1.021 mg/L	0.0054	1.021 mg/L	0.0054		0.53%
Al 308.215†	2819.6		1.993 mg/L	0.0328	1.993 mg/L	0.0328		1.65%
As 188.979†	3174.9		2.063 mg/L	0.0165	2.063 mg/L	0.0165		0.80%
B 249.677†	6312.5		0.9637 mg/L	0.02024	0.9637 mg/L	0.02024		2.10%
Ba 233.527†	3914.1		0.9893 mg/L	0.01918	0.9893 mg/L	0.01918		1.94%
Be 313.042†	514946.3		0.9847 mg/L	0.03423	0.9847 mg/L	0.03423		3.48%
Ca 317.933†	23571.4		1.935 mg/L	0.0611	1.935 mg/L	0.0611		3.16%
Cd 228.802†	25920.8		1.015 mg/L	0.0050	1.015 mg/L	0.0050		0.49%
Co 228.616†	33399.3		0.9951 mg/L	0.00329	0.9951 mg/L	0.00329		0.33%
Cr 267.716†	5622.8		1.011 mg/L	0.0198	1.011 mg/L	0.0198		1.96%
Cu 324.752†	218378.7		0.9923 mg/L	0.00728	0.9923 mg/L	0.00728		0.73%
Fe 273.955†	2580.5		2.067 mg/L	0.0334	2.067 mg/L	0.0334		1.62%
K 766.490†	33903.8		19.47 mg/L	0.587	19.47 mg/L	0.587		3.02%
Mg 279.077†	2377.5		2.017 mg/L	0.0427	2.017 mg/L	0.0427		2.12%
Mn 257.610†	32150.0		0.9816 mg/L	0.03034	0.9816 mg/L	0.03034		3.09%
Mo 202.031†	17435.3		0.9914 mg/L	0.00562	0.9914 mg/L	0.00562		0.57%
Na 589.592†	488534.6		47.96 mg/L	1.569	47.96 mg/L	1.569		3.27%
Na 330.237†	1297.6		51.82 mg/L	1.073	51.82 mg/L	1.073		2.07%
Ni 231.604†	3619.6		0.9764 mg/L	0.02088	0.9764 mg/L	0.02088		2.14%
Pb 220.353†	14086.1		1.983 mg/L	0.0059	1.983 mg/L	0.0059		0.30%
Sb 206.836†	6065.9		2.118 mg/L	0.0181	2.118 mg/L	0.0181		0.85%
Se 196.026†	2562.2		1.989 mg/L	0.0189	1.989 mg/L	0.0189		0.95%
Si 288.158†	3663.9		2.101 mg/L	0.0442	2.101 mg/L	0.0442		2.10%
Sn 189.927†	3481.7		1.028 mg/L	0.0079	1.028 mg/L	0.0079		0.76%
Sr 421.552†	692725.3		0.9494 mg/L	0.02969	0.9494 mg/L	0.02969		3.13%
Ti 334.903†	17875.6		1.017 mg/L	0.0314	1.017 mg/L	0.0314		3.09%
Tl 190.801†	4277.0		1.993 mg/L	0.0107	1.993 mg/L	0.0107		0.54%
V 292.402†	103119.3		0.9780 mg/L	0.00469	0.9780 mg/L	0.00469		0.48%
Zn 206.200†	3527.0		1.029 mg/L	0.0205	1.029 mg/L	0.0205		1.99%

Sequence No.: 27

Sample ID: CB 8

Dilution: 1.000000X

Autosampler Location: 1

Date Collected: 11/27/2012 3:45:16 PM

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2390919.7	108.1	%	0.54				
ScR 361.383	297583.6	108.3	%	0.55				0.50%
Ag 328.068†	8.0	0.00005	mg/L	0.000147	0.00005	mg/L	0.000147	271.70%
Al 308.215†	-2.6	-0.00190	mg/L	0.006848	-0.00190	mg/L	0.006848	360.34%
As 188.979†	0.9	0.00059	mg/L	0.002235	0.00059	mg/L	0.002235	381.60%
B 249.677†	6.0	0.00091	mg/L	0.000297	0.00091	mg/L	0.000297	32.52%
Ba 233.527†	0.7	0.00018	mg/L	0.001000	0.00018	mg/L	0.001000	554.75%
Be 313.042†	13.5	0.00003	mg/L	0.000057	0.00003	mg/L	0.000057	221.20%
Ca 317.933†	4.5	0.00037	mg/L	0.000218	0.00037	mg/L	0.000218	59.10%
Cd 228.802†	-4.1	-0.00016	mg/L	0.000104	-0.00016	mg/L	0.000104	63.70%
Co 228.616†	9.7	0.00029	mg/L	0.000213	0.00029	mg/L	0.000213	73.49%
Cr 267.716†	4.2	0.00076	mg/L	0.000580	0.00076	mg/L	0.000580	75.91%
Cu 324.752†	-717.1	-0.00326	mg/L	0.000056	-0.00326	mg/L	0.000056	1.71%
Fe 273.955†	1.6	0.00129	mg/L	0.002461	0.00129	mg/L	0.002461	190.68%
K 766.490†	-48.4	-0.02780	mg/L	0.011926	-0.02780	mg/L	0.011926	42.89%
Mg 279.077†	-5.1	-0.00433	mg/L	0.001782	-0.00433	mg/L	0.001782	41.15%
Mn 257.610†	7.4	0.00023	mg/L	0.000064	0.00023	mg/L	0.000064	28.23%
Mo 202.031†	2.5	0.00014	mg/L	0.000196	0.00014	mg/L	0.000196	140.32%
Na 589.592†	55.7	0.00547	mg/L	0.001632	0.00547	mg/L	0.001632	29.84%
Na 330.237†	16.5	0.6590	mg/L	0.43329	0.6590	mg/L	0.43329	65.75%
Ni 231.604†	5.1	0.00138	mg/L	0.001600	0.00138	mg/L	0.001600	115.93%
Pb 220.353†	4.9	0.00070	mg/L	0.001187	0.00070	mg/L	0.001187	170.27%
Sb 206.836†	1.1	0.00039	mg/L	0.001794	0.00039	mg/L	0.001794	460.32%
Se 196.026†	-3.7	-0.00291	mg/L	0.002524	-0.00291	mg/L	0.002524	86.71%
Si 288.158†	-4.7	-0.00272	mg/L	0.004363	-0.00272	mg/L	0.004363	160.70%
Sn 189.927†	4.3	0.00128	mg/L	0.001279	0.00128	mg/L	0.001279	99.93%
Sr 421.552†	52.5	0.00007	mg/L	0.000065	0.00007	mg/L	0.000065	90.54%
Ti 334.903†	-7.5	-0.00043	mg/L	0.000142	-0.00043	mg/L	0.000142	33.20%
Tl 190.801†	7.2	0.00335	mg/L	0.000645	0.00335	mg/L	0.000645	19.27%
V 292.402†	13.2	0.00013	mg/L	0.000142	0.00013	mg/L	0.000142	110.90%
Zn 206.200†	0.1	0.00002	mg/L	0.000067	0.00002	mg/L	0.000067	283.84%

Sequence No.: 28
 Sample ID: VS22 MB1 SWC

Autosampler Location: 346
 Date Collected: 11/27/2012 3:49:31 PM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VS22 MB1 SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VS22 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2388589.0	108.0	%	0.45			0.41%
ScR 361.383	300100.9	109.3	%	0.92			0.84%
Ag 328.068†	15.7	0.00011	mg/L	0.000083	0.00021 mg/L	0.000166	78.65%
Al 308.215†	-3.6	-0.00259	mg/L	0.006239	-0.00519 mg/L	0.012479	240.62%
As 188.979†	0.6	0.00037	mg/L	0.001375	0.00075 mg/L	0.002750	368.66%
B 249.677†	2.6	0.00040	mg/L	0.000876	0.00080 mg/L	0.001752	217.73%
Ba 233.527†	0.2	0.00005	mg/L	0.000587	0.00010 mg/L	0.001174	>999.9%
Be 313.042†	-39.6	-0.00008	mg/L	0.000040	-0.00015 mg/L	0.000080	52.86%
Ca 317.933†	76.9	0.00631	mg/L	0.001127	0.01262 mg/L	0.002254	17.86%
Cd 228.802†	-7.9	-0.00032	mg/L	0.000068	-0.00063 mg/L	0.000136	21.53%
Co 228.616†	6.2	0.00019	mg/L	0.000071	0.00037 mg/L	0.000142	38.38%
Cr 267.716†	5.5	0.00100	mg/L	0.001270	0.00199 mg/L	0.002539	127.55%
Cu 324.752†	-716.8	-0.00326	mg/L	0.000068	-0.00652 mg/L	0.000136	2.09%
Fe 273.955†	7.9	0.00632	mg/L	0.001822	0.01263 mg/L	0.003644	28.84%
K 766.490†	-45.0	-0.02585	mg/L	0.030900	-0.05171 mg/L	0.061801	119.52%
Mg 279.077†	-0.8	-0.00071	mg/L	0.000309	-0.00142 mg/L	0.000617	43.49%
Mn 257.610†	5.9	0.00018	mg/L	0.000076	0.00036 mg/L	0.000152	42.20%
Mo 202.031†	-0.2	-0.00001	mg/L	0.000154	-0.00003 mg/L	0.000308	>999.9%
Na 589.592†	33.4	0.00328	mg/L	0.001325	0.00655 mg/L	0.002649	40.44%
Na 330.237†	17.6	0.7051	mg/L	0.37633	1.410 mg/L	0.7527	53.37%
Ni 231.604†	3.1	0.00083	mg/L	0.001142	0.00165 mg/L	0.002283	138.26%
Pb 220.353†	6.5	0.00093	mg/L	0.000135	0.00185 mg/L	0.000269	14.53%
Sb 206.836†	-2.3	-0.00082	mg/L	0.000862	-0.00163 mg/L	0.001724	105.70%
Se 196.026†	-2.3	-0.00180	mg/L	0.003837	-0.00361 mg/L	0.007673	212.77%
Si 288.158†	7.6	0.00437	mg/L	0.002077	0.00873 mg/L	0.004153	47.56%
Sn 189.927†	4.2	0.00124	mg/L	0.000805	0.00249 mg/L	0.001609	64.71%
Sr 421.552†	14.7	0.00002	mg/L	0.000015	0.00004 mg/L	0.000030	74.50%
Ti 334.903†	-3.0	-0.00017	mg/L	0.000828	-0.00034 mg/L	0.001656	483.19%
Tl 190.801†	12.2	0.00571	mg/L	0.001565	0.01141 mg/L	0.003129	27.42%
V 292.402†	-5.1	-0.00004	mg/L	0.000045	-0.00009 mg/L	0.000091	104.00%
Zn 206.200†	3.1	0.00090	mg/L	0.000600	0.00180 mg/L	0.001200	66.81%

Sequence No.: 29
 Sample ID: VS22 B SWC

Autosampler Location: 347
 Date Collected: 11/27/2012 3:53:46 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 B SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VS22 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2361553.8	106.8 %		0.42			
ScR 361.383	302179.6	110.0 %		0.68			0.39%
Ag 328.068†	-103.7	-0.00065 mg/L		0.000258	-0.00324 mg/L	0.001288	0.61%
Al 308.215†	108013.8	77.63 mg/L		0.077	388.1 mg/L	0.39	39.82%
As 188.979†	-163.6	0.01633 mg/L		0.003491	0.08166 mg/L	0.017453	0.10%
B 249.677†	47.4	0.00715 mg/L		0.000959	0.03576 mg/L	0.004795	21.37%
Ba 233.527†	2310.4	0.5702 mg/L		0.00356	2.851 mg/L	0.0178	13.41%
Be 313.042†	794.3	0.00143 mg/L		0.000030	0.00717 mg/L	0.0149	0.62%
Ca 317.933†	306704.7	25.18 mg/L		0.107	125.9 mg/L	0.53	2.08%
Cd 228.802†	248.7	0.00980 mg/L		0.000285	0.04898 mg/L	0.001427	0.42%
Co 228.616†	1544.9	0.03666 mg/L		0.000431	0.1833 mg/L	0.00216	2.91%
Cr 267.716†	517.8	0.09410 mg/L		0.000786	0.4705 mg/L	0.00393	1.18%
Cu 324.752†	12418.6	0.05916 mg/L		0.000430	0.2958 mg/L	0.00215	0.84%
Fe 273.955†	106386.7	85.49 mg/L		0.353	427.4 mg/L	1.77	0.73%
K 766.490†	8366.4	4.805 mg/L		0.0188	24.02 mg/L	0.094	0.41%
Mg 279.077†	26367.0	22.25 mg/L		0.085	111.2 mg/L	0.42	0.39%
Mn 257.610†	64742.1	1.976 mg/L		0.0076	9.881 mg/L	0.0378	0.38%
Mo 202.031†	51.4	0.00265 mg/L		0.000494	0.01323 mg/L	0.002470	0.38%
Na 589.592†	13373.5	1.313 mg/L		0.0037	6.565 mg/L	0.0187	18.67%
Na 330.237†	25.7	1.772 mg/L		0.1257	8.861 mg/L	0.6287	0.29%
Ni 231.604†	235.3	0.06346 mg/L		0.001853	0.3173 mg/L	0.00927	7.10%
Pb 220.353†	1511.4	0.2278 mg/L		0.00127	1.139 mg/L	0.0063	2.92%
Sb 206.836†	4.3	0.00261 mg/L		0.001762	0.01305 mg/L	0.008808	0.56%
Se 196.026†	-0.1	-0.00021 mg/L		0.002517	-0.00103 mg/L	0.012584	67.51%
Si 288.158†	2341.4	1.346 mg/L		0.0139	6.729 mg/L	0.0696	>999.9%
Sn 189.927†	-35.5	-0.00674 mg/L		0.000327	-0.03371 mg/L	0.001634	1.03%
Sr 421.552†	136671.7	0.1873 mg/L		0.00022	0.9365 mg/L	0.00112	4.85%
Ti 334.903†	75418.5	4.293 mg/L		0.0122	21.46 mg/L	0.061	0.12%
Tl 190.801†	-5.9	0.00550 mg/L		0.002181	0.02752 mg/L	0.010907	0.28%
V 292.402†	18134.5	0.1665 mg/L		0.00152	0.8326 mg/L	0.00759	39.63%
Zn 206.200†	2435.4	0.7108 mg/L		0.00351	3.554 mg/L	0.0176	0.91%
							0.49%

Sequence No.: 30
 Sample ID: VS22 C SWC

Autosampler Location: 348
 Date Collected: 11/27/2012 3:57:45 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 C SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VS22 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2391514.9	108.2	%	0.75				
ScR 361.383	303944.2	110.7	%	0.50				0.69%
Ag 328.068†	-191.3	-0.00124	mg/L	0.000258	-0.00621	mg/L	0.001291	0.45%
Al 308.215†	130233.9	93.60	mg/L	0.126	468.0	mg/L	0.63	20.79%
As 188.979†	-170.5	0.00647	mg/L	0.002404	0.03233	mg/L	0.012020	0.13%
B 249.677†	35.1	0.00526	mg/L	0.000343	0.02629	mg/L	0.001716	37.18%
Ba 233.527†	2206.2	0.5427	mg/L	0.00367	2.714	mg/L	0.0184	6.53%
Be 313.042†	1228.0	0.00227	mg/L	0.000014	0.01135	mg/L	0.000069	0.68%
Ca 317.933†	273281.3	22.44	mg/L	0.018	112.2	mg/L	0.09	0.61%
Cd 228.802†	46.1	0.00173	mg/L	0.000110	0.00864	mg/L	0.000551	0.08%
Co 228.616†	1656.1	0.04026	mg/L	0.000440	0.2013	mg/L	0.00220	6.37%
Cr 267.716†	546.8	0.09976	mg/L	0.001075	0.4988	mg/L	0.00537	1.09%
Cu 324.752†	14099.8	0.06716	mg/L	0.000861	0.3358	mg/L	0.00430	1.08%
Fe 273.955†	115025.7	92.43	mg/L	0.057	462.2	mg/L	0.29	1.28%
K 766.490†	9149.9	5.255	mg/L	0.0030	26.27	mg/L	0.015	0.06%
Mg 279.077†	25829.1	21.79	mg/L	0.014	108.9	mg/L	0.07	0.06%
Mn 257.610†	30445.5	0.9293	mg/L	0.00178	4.646	mg/L	0.0089	0.07%
Mo 202.031†	37.3	0.00187	mg/L	0.000216	0.00936	mg/L	0.001082	0.19%
Na 589.592†	16503.4	1.620	mg/L	0.0035	8.101	mg/L	0.0173	11.56%
Na 330.237†	33.8	2.208	mg/L	0.1997	11.04	mg/L	0.999	0.21%
Ni 231.604†	257.0	0.06932	mg/L	0.001828	0.3466	mg/L	0.00914	9.04%
Pb 220.353†	191.8	0.04568	mg/L	0.001323	0.2284	mg/L	0.00662	2.64%
Sb 206.836†	-3.3	-0.00026	mg/L	0.001805	-0.00129	mg/L	0.009026	2.90%
Se 196.026†	3.3	0.00244	mg/L	0.003985	0.01218	mg/L	0.019926	698.46%
Si 288.158†	3306.1	1.899	mg/L	0.0145	9.495	mg/L	0.0723	163.65%
Sn 189.927†	-29.6	-0.00538	mg/L	0.002055	-0.02688	mg/L	0.010276	0.76%
Sr 421.552†	132006.1	0.1809	mg/L	0.00015	0.9046	mg/L	0.00075	38.23%
Ti 334.903†	72014.3	4.099	mg/L	0.0011	20.49	mg/L	0.0005	0.08%
Tl 190.801†	-10.6	0.00411	mg/L	0.001745	0.02053	mg/L	0.00075	0.03%
V 292.402†	16015.1	0.1462	mg/L	0.00177	0.7311	mg/L	0.008725	42.51%
Zn 206.200†	799.6	0.2334	mg/L	0.00177	1.167	mg/L	0.00883	1.21%
							0.0088	0.76%

Sequence No.: 31
Sample ID: VS22 D SWC

Autosampler Location: 349
Date Collected: 11/27/2012 4:01:44 PM
Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 D SWC

Analyte Back Pressure Flow
All 218.0 kPa 0.75 L/min

Mean Data: VS22 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2352452.4	106.4 %	%	0.26			
ScR 361.383	292159.3	106.4 %	%	0.25			0.24%
Ag 328.068†	-375.0	-0.00246 mg/L	mg/L	0.000187	-0.01230 mg/L	0.000937	7.62%
Al 308.215†	103126.2	74.11 mg/L	mg/L	0.645	370.6 mg/L	3.22	0.87%
As 188.979†	-138.8	0.03185 mg/L	mg/L	0.003936	0.1593 mg/L	0.01968	12.36%
B 249.677†	-1.8	-0.00038 mg/L	mg/L	0.001597	-0.00190 mg/L	0.007987	420.92%
Ba 233.527†	3320.6	0.8217 mg/L	mg/L	0.00930	4.108 mg/L	0.0465	1.13%
Be 313.042†	1031.9	0.00188 mg/L	mg/L	0.000044	0.00938 mg/L	0.000222	2.36%
Ca 317.933†	2744447.7	225.3 mg/L	mg/L	1.06	1127 mg/L	5.32	0.47%
Cd 228.802†	56.0	0.00185 mg/L	mg/L	0.000192	0.00926 mg/L	0.000959	10.36%
Co 228.616†	1812.9	0.04355 mg/L	mg/L	0.000240	0.2178 mg/L	0.00120	0.55%
Cr 267.716†	781.9	0.1392 mg/L	mg/L	0.00094	0.6958 mg/L	0.00471	0.68%
Cu 324.752†	25981.9	0.1216 mg/L	mg/L	0.00025	0.6082 mg/L	0.00124	0.20%
Fe 273.955†	136493.2	109.7 mg/L	mg/L	1.17	548.4 mg/L	5.83	1.06%
K 766.490†	13790.9	7.920 mg/L	mg/L	0.1247	39.60 mg/L	0.624	1.57%
Mg 279.077†	48590.0	41.02 mg/L	mg/L	0.464	205.1 mg/L	2.32	1.13%
Mn 257.610†	51106.8	1.560 mg/L	mg/L	0.0157	7.798 mg/L	0.0783	1.00%
Mo 202.031†	107.2	0.00365 mg/L	mg/L	0.000415	0.01826 mg/L	0.002076	11.37%
Na 589.592†	17217.3	1.690 mg/L	mg/L	0.0101	8.452 mg/L	0.0506	0.60%
Na 330.237†	33.1	2.312 mg/L	mg/L	0.4490	11.56 mg/L	2.245	19.42%
Ni 231.604†	379.5	0.1024 mg/L	mg/L	0.00114	0.5118 mg/L	0.00570	1.11%
Pb 220.353†	172.7	0.03762 mg/L	mg/L	0.000478	0.1881 mg/L	0.00239	1.27%
Sb 206.836†	-0.3	0.00050 mg/L	mg/L	0.001550	0.00248 mg/L	0.007750	312.49%
Se 196.026†	-20.9	-0.01635 mg/L	mg/L	0.005354	-0.08175 mg/L	0.026772	32.75%
Si 288.158†	2980.3	1.714 mg/L	mg/L	0.0241	8.572 mg/L	0.1205	1.41%
Sn 189.927†	-80.7	0.00476 mg/L	mg/L	0.000673	0.02379 mg/L	0.003367	14.15%
Sr 421.552†	508300.3	0.6966 mg/L	mg/L	0.00117	3.483 mg/L	0.0059	0.17%
Ti 334.903†	82371.2	4.679 mg/L	mg/L	0.0447	23.39 mg/L	0.224	0.96%
Tl 190.801†	2.3	0.01178 mg/L	mg/L	0.004084	0.05888 mg/L	0.020418	34.68%
V 292.402†	21639.9	0.1987 mg/L	mg/L	0.00096	0.9934 mg/L	0.00481	0.48%
Zn 206.200†	826.7	0.2412 mg/L	mg/L	0.00195	1.206 mg/L	0.0098	0.81%

Sequence No.: 32

Autosampler Location: 350

Sample ID: VS22 A-L SWC

Date Collected: 11/27/2012 4:05:45 PM

Data Type: Original

Dilution: 25.000000X

Nebulizer Parameters: VS22 A-L SWC

Analyte	Back Pressure	Flow
All	216.0 kPa	0.75 L/min

Mean Data: VS22 A-L SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2376157.7	107.5	%	0.63			0.58%
ScR 361.383	303148.5	110.4	%	0.30			0.27%
Ag 328.068†	3.4	0.00003	mg/L	0.000119	0.00071 mg/L	0.002978	418.47%
Al 308.215†	12441.8	8.942	mg/L	0.0075	223.5 mg/L	0.19	0.08%
As 188.979†	-9.3	0.00731	mg/L	0.001036	0.1827 mg/L	0.02590	14.18%
B 249.677†	11.8	0.00180	mg/L	0.000461	0.04493 mg/L	0.011532	25.66%
Ba 233.527†	497.9	0.1241	mg/L	0.00059	3.103 mg/L	0.0147	0.47%
Be 313.042†	89.9	0.00016	mg/L	0.000012	0.00406 mg/L	0.000294	7.25%
Ca 317.933†	70516.6	5.790	mg/L	0.0042	144.7 mg/L	0.10	0.07%
Cd 228.802†	102.7	0.00402	mg/L	0.000152	0.1005 mg/L	0.00380	3.78%
Co 228.616†	213.5	0.00530	mg/L	0.000139	0.1326 mg/L	0.00347	2.62%
Cr 267.716†	74.3	0.01342	mg/L	0.000462	0.3356 mg/L	0.01155	3.44%
Cu 324.752†	2059.8	0.00972	mg/L	0.000141	0.2430 mg/L	0.00353	1.45%
Fe 273.955†	13478.6	10.83	mg/L	0.039	270.8 mg/L	0.97	0.36%
K 766.490†	1428.6	0.8204	mg/L	0.02027	20.51 mg/L	0.507	2.47%
Mg 279.077†	3352.1	2.828	mg/L	0.0222	70.71 mg/L	0.556	0.79%
Mn 257.610†	21678.8	0.6617	mg/L	0.00149	16.54 mg/L	0.037	0.22%
Mo 202.031†	12.7	0.00066	mg/L	0.000257	0.01645 mg/L	0.006431	39.09%
Na 589.592†	1328.3	0.1304	mg/L	0.00078	3.260 mg/L	0.0196	0.60%
Na 330.237†	16.8	0.7190	mg/L	0.18392	17.97 mg/L	4.598	25.58%
Ni 231.604†	34.9	0.00942	mg/L	0.000762	0.2354 mg/L	0.01904	8.09%
Pb 220.353†	1228.0	0.1745	mg/L	0.00072	4.362 mg/L	0.0180	0.41%
Sb 206.836†	-3.0	-0.00098	mg/L	0.001486	-0.02447 mg/L	0.037144	151.77%
Se 196.026†	-4.4	-0.00340	mg/L	0.003363	-0.08494 mg/L	0.084068	98.97%
Si 288.158†	275.7	0.1585	mg/L	0.00732	3.963 mg/L	0.1829	4.62%
Sn 189.927†	-7.5	-0.00143	mg/L	0.000536	-0.03581 mg/L	0.013404	37.43%
Sr 421.552†	28745.2	0.03940	mg/L	0.000109	0.9849 mg/L	0.00272	0.28%
Ti 334.903†	8365.6	0.4760	mg/L	0.00178	11.90 mg/L	0.044	0.37%
Tl 190.801†	6.1	0.00392	mg/L	0.001040	0.09794 mg/L	0.026002	26.55%
V 292.402†	2083.4	0.01918	mg/L	0.000362	0.4796 mg/L	0.00906	1.89%
Zn 206.200†	656.1	0.1915	mg/L	0.00182	4.787 mg/L	0.0455	0.95%

Sequence No.: 33
Sample ID: VS22 A SWC

Autosampler Location: 351
Date Collected: 11/27/2012 4:09:44 PM
Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 A SWC

Analyte Back Pressure Flow
All 218.0 kPa 0.75 L/min

Mean Data: VS22 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2406168.3	108.8 %	0.77			0.71%
ScR 361.383	306079.9	111.4 %	0.83			0.74%
Ag 328.068†	98.5	0.00069 mg/L	0.000217	0.00345 mg/L	0.001084	31.41%
Al 308.215†	63831.7	45.87 mg/L	0.129	229.4 mg/L	0.64	0.28%
As 188.979†	-53.3	0.03351 mg/L	0.002446	0.1676 mg/L	0.01223	7.30%
B 249.677†	68.4	0.01038 mg/L	0.000495	0.05192 mg/L	0.002473	4.76%
Ba 233.527†	2559.5	0.6381 mg/L	0.00884	3.191 mg/L	0.0442	1.38%
Be 313.042†	555.8	0.00101 mg/L	0.000046	0.00507 mg/L	0.000228	4.50%
Ca 317.933†	365096.6	29.98 mg/L	0.129	149.9 mg/L	0.64	0.43%
Cd 228.802†	544.0	0.02131 mg/L	0.000272	0.1066 mg/L	0.00136	1.28%
Co 228.616†	1066.7	0.02637 mg/L	0.000309	0.1319 mg/L	0.00155	1.17%
Cr 267.716†	335.3	0.06067 mg/L	0.001701	0.3033 mg/L	0.00851	2.80%
Cu 324.752†	13433.4	0.06290 mg/L	0.000197	0.3145 mg/L	0.00099	0.31%
Fe 273.955†	68961.9	55.42 mg/L	0.186	277.1 mg/L	0.93	0.34%
K 766.490†	7685.6	4.414 mg/L	0.0323	22.07 mg/L	0.162	0.73%
Mg 279.077†	16265.3	13.72 mg/L	0.055	68.61 mg/L	0.275	0.40%
Mn 257.610†	111508.7	3.404 mg/L	0.0108	17.02 mg/L	0.054	0.32%
Mo 202.031†	60.8	0.00313 mg/L	0.000502	0.01565 mg/L	0.002511	16.04%
Na 589.592†	6592.6	0.6472 mg/L	0.00388	3.236 mg/L	0.0194	0.60%
Na 330.237†	21.3	1.078 mg/L	0.1896	5.389 mg/L	0.9479	17.59%
Ni 231.604†	169.9	0.04583 mg/L	0.000590	0.2292 mg/L	0.00295	1.29%
Pb 220.353†	6210.3	0.8825 mg/L	0.00799	4.413 mg/L	0.0399	0.90%
Sb 206.836†	24.7	0.00916 mg/L	0.002142	0.04579 mg/L	0.010709	23.39%
Se 196.026†	0.4	0.00024 mg/L	0.005986	0.00122 mg/L	0.029929	>999.9%
Si 288.158†	1426.6	0.8200 mg/L	0.01208	4.100 mg/L	0.0604	1.47%
Sn 189.927†	-20.6	-0.00200 mg/L	0.001251	-0.00999 mg/L	0.006255	62.60%
Sr 421.552†	146029.8	0.2001 mg/L	0.00084	1.001 mg/L	0.0042	0.42%
Ti 334.903†	42691.7	2.429 mg/L	0.0096	12.15 mg/L	0.048	0.39%
Tl 190.801†	9.4	0.00979 mg/L	0.001174	0.04896 mg/L	0.005868	11.99%
V 292.402†	10524.1	0.09683 mg/L	0.000045	0.4842 mg/L	0.00023	0.05%
Zn 206.200†	3415.9	0.9970 mg/L	0.01567	4.985 mg/L	0.0784	1.57%

Sequence No.: 34
 Sample ID: VS22 ADUP SWC

Autosampler Location: 352
 Date Collected: 11/27/2012 4:13:43 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 ADUP SWC

Analyte Back Pressure Flow
 All 216.0 kPa 0.75 L/min

Mean Data: VS22 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2397117.4	108.4 %	%	0.61			0.57%
ScR 361.383	306990.9	111.8 %	%	0.07			0.07%
Ag 328.068†	92.0	0.00065 mg/L	mg/L	0.000108	0.00324 mg/L	0.000538	16.59%
Al 308.215†	66130.1	47.53 mg/L	mg/L	0.141	237.6 mg/L	0.71	0.30%
As 188.979†	-63.3	0.03275 mg/L	mg/L	0.002432	0.1638 mg/L	0.01216	7.43%
B 249.677†	77.2	0.01174 mg/L	mg/L	0.001074	0.05870 mg/L	0.005368	9.14%
Ba 233.527†	2618.1	0.6527 mg/L	mg/L	0.00095	3.263 mg/L	0.0048	0.15%
Be 313.042†	564.5	0.00103 mg/L	mg/L	0.000007	0.00513 mg/L	0.000037	0.72%
Ca 317.933†	383320.7	31.47 mg/L	mg/L	0.105	157.4 mg/L	0.53	0.33%
Cd 228.802†	572.2	0.02246 mg/L	mg/L	0.000193	0.1123 mg/L	0.00096	0.86%
Co 228.616†	1070.6	0.02608 mg/L	mg/L	0.000197	0.1304 mg/L	0.00098	0.75%
Cr 267.716†	347.3	0.06284 mg/L	mg/L	0.000632	0.3142 mg/L	0.00316	1.01%
Cu 324.752†	13849.5	0.06482 mg/L	mg/L	0.000270	0.3241 mg/L	0.00135	0.42%
Fe 273.955†	70926.2	56.99 mg/L	mg/L	0.248	285.0 mg/L	1.24	0.44%
K 766.490†	8076.4	4.638 mg/L	mg/L	0.0083	23.19 mg/L	0.041	0.18%
Mg 279.077†	16682.8	14.07 mg/L	mg/L	0.031	70.37 mg/L	0.153	0.22%
Mn 257.610†	115286.5	3.519 mg/L	mg/L	0.0113	17.59 mg/L	0.057	0.32%
Mo 202.031†	63.1	0.00324 mg/L	mg/L	0.000080	0.01621 mg/L	0.000402	2.48%
Na 589.592†	7321.5	0.7188 mg/L	mg/L	0.00249	3.594 mg/L	0.0125	0.35%
Na 330.237†	25.8	1.301 mg/L	mg/L	0.2481	6.504 mg/L	1.2407	19.08%
Ni 231.604†	168.0	0.04531 mg/L	mg/L	0.000468	0.2266 mg/L	0.00234	1.03%
Pb 220.353†	6252.1	0.8887 mg/L	mg/L	0.00230	4.444 mg/L	0.0115	0.26%
Sb 206.836†	27.7	0.01026 mg/L	mg/L	0.000331	0.05131 mg/L	0.001656	3.23%
Se 196.026†	1.2	0.00087 mg/L	mg/L	0.002873	0.00433 mg/L	0.014365	331.79%
Si 288.158†	1529.6	0.8792 mg/L	mg/L	0.00591	4.396 mg/L	0.0296	0.67%
Sn 189.927†	-22.2	-0.00225 mg/L	mg/L	0.000169	-0.01124 mg/L	0.000844	7.51%
Sr 421.552†	153375.3	0.2102 mg/L	mg/L	0.00058	1.051 mg/L	0.0029	0.28%
Ti 334.903†	46195.8	2.629 mg/L	mg/L	0.0093	13.14 mg/L	0.047	0.35%
Tl 190.801†	4.3	0.00754 mg/L	mg/L	0.001299	0.03772 mg/L	0.006497	17.22%
V 292.402†	11223.0	0.1033 mg/L	mg/L	0.00037	0.5165 mg/L	0.00185	0.36%
Zn 206.200†	3454.4	1.008 mg/L	mg/L	0.0054	5.041 mg/L	0.0272	0.54%

Sequence No.: 35

Autosampler Location: 353

Sample ID: VS22 ASPK SWC

Date Collected: 11/27/2012 4:17:42 PM

Dilution: 5.000000X

Data Type: Original

Nebulizer Parameters: VS22 ASPK SWC

Analyte	Back Pressure	Flow
All	218.0 kPa	0.75 L/min

Mean Data: VS22 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2406368.0	108.8 %	%	0.77			0.71%
ScR 361.383	302965.1	110.3 %	%	0.93			0.84%
Ag 328.068†	29922.6	0.2011 mg/L	mg/L	0.00109	1.005 mg/L	0.0054	0.54%
Al 308.215†	70115.0	50.39 mg/L	mg/L	0.396	251.9 mg/L	1.98	0.79%
As 188.979†	1173.0	0.8284 mg/L	mg/L	0.00459	4.142 mg/L	0.0230	0.55%
B 249.677†	83.3	0.01225 mg/L	mg/L	0.001468	0.06127 mg/L	0.007339	11.98%
Ba 233.527†	5813.7	1.460 mg/L	mg/L	0.0118	7.302 mg/L	0.0589	0.81%
Be 313.042†	104257.2	0.1993 mg/L	mg/L	0.00208	0.9966 mg/L	0.01040	1.04%
Ca 317.933†	440108.4	36.14 mg/L	mg/L	0.322	180.7 mg/L	1.61	0.89%
Cd 228.802†	5928.9	0.2298 mg/L	mg/L	0.00147	1.149 mg/L	0.0074	0.64%
Co 228.616†	7850.1	0.2282 mg/L	mg/L	0.00150	1.141 mg/L	0.0075	0.66%
Cr 267.716†	1478.4	0.2658 mg/L	mg/L	0.00130	1.329 mg/L	0.0065	0.49%
Cu 324.752†	58827.4	0.2693 mg/L	mg/L	0.00167	1.347 mg/L	0.0083	0.62%
Fe 273.955†	73139.0	58.77 mg/L	mg/L	0.506	293.9 mg/L	2.53	0.86%
K 766.490†	14958.2	8.591 mg/L	mg/L	0.0728	42.95 mg/L	0.364	0.85%
Mg 279.077†	22902.5	19.33 mg/L	mg/L	0.141	96.66 mg/L	0.703	0.73%
Mn 257.610†	123996.9	3.785 mg/L	mg/L	0.0310	18.92 mg/L	0.155	0.82%
Mo 202.031†	67.1	0.00341 mg/L	mg/L	0.000322	0.01707 mg/L	0.001610	9.44%
Na 589.592†	46712.4	4.586 mg/L	mg/L	0.0395	22.93 mg/L	0.197	0.86%
Na 330.237†	125.0	5.220 mg/L	mg/L	0.0455	26.10 mg/L	0.228	0.87%
Ni 231.504†	891.9	0.2402 mg/L	mg/L	0.00044	1.201 mg/L	0.0022	0.18%
Pb 220.353†	11946.2	1.691 mg/L	mg/L	0.0099	8.453 mg/L	0.0496	0.59%
Sb 206.836†	22.2	0.00621 mg/L	mg/L	0.000516	0.03107 mg/L	0.002581	8.31%
Se 196.026†	1007.7	0.7822 mg/L	mg/L	0.01149	3.911 mg/L	0.0575	1.47%
Si 288.158†	1389.1	0.7999 mg/L	mg/L	0.00561	4.000 mg/L	0.0281	0.70%
Sn 189.927†	-31.3	-0.00433 mg/L	mg/L	0.001216	-0.02163 mg/L	0.006082	28.12%
Sr 421.552†	302175.2	0.4141 mg/L	mg/L	0.00350	2.071 mg/L	0.0175	0.85%
Ti 334.903†	47621.5	2.709 mg/L	mg/L	0.0251	13.55 mg/L	0.125	0.92%
Tl 190.801†	1648.2	0.7750 mg/L	mg/L	0.00323	3.875 mg/L	0.0161	0.42%
V 292.402†	31658.0	0.2970 mg/L	mg/L	0.00231	1.485 mg/L	0.0116	0.78%
Zn 206.200†	4146.1	1.210 mg/L	mg/L	0.0074	6.050 mg/L	0.0369	0.61%

Sequence No.: 36
 Sample ID: VS22 APOST SWC

Autosampler Location: 354
 Date Collected: 11/27/2012 4:21:42 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: VS22 APOST SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VS22 APOST SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2376929.0	107.5 %	0.20			
ScR 361.383	303033.1	110.3 %	1.03			0.19%
Ag 328.068†	70599.2	0.4744 mg/L	0.00022	2.372 mg/L	0.0011	0.94%
Al 308.215†	68422.4	49.17 mg/L	0.542	245.8 mg/L	2.71	0.05%
As 188.979†	3109.7	2.065 mg/L	0.0081	10.33 mg/L	0.041	1.10%
B 249.677†	75.2	0.01038 mg/L	0.000618	0.05192 mg/L	0.003088	0.39%
Ba 233.527†	10439.5	2.630 mg/L	0.0242	13.15 mg/L	0.121	5.95%
Be 313.042†	259628.9	0.4965 mg/L	0.00503	2.482 mg/L	0.0252	0.92%
Ca 317.933†	493208.6	40.49 mg/L	0.446	202.5 mg/L	2.23	1.01%
Cd 228.802†	14033.0	0.5433 mg/L	0.00115	2.716 mg/L	0.0058	1.10%
Co 228.616†	18019.9	0.5322 mg/L	0.00077	2.661 mg/L	0.0039	0.21%
Cr 267.716†	3122.0	0.5608 mg/L	0.00311	2.804 mg/L	0.0155	0.15%
Cu 324.752†	122444.4	0.5585 mg/L	0.00077	2.793 mg/L	0.0038	0.55%
Fe 273.955†	72410.5	58.18 mg/L	0.585	290.9 mg/L	2.92	0.14%
K 766.490†	25003.5	14.36 mg/L	0.132	71.80 mg/L	0.662	1.00%
Mg 279.077†	29504.9	24.92 mg/L	0.190	124.6 mg/L	0.95	0.92%
Mn 257.610†	129238.6	3.945 mg/L	0.0364	19.73 mg/L	0.182	0.76%
Mo 202.031†	73.1	0.00369 mg/L	0.000146	0.01843 mg/L	0.000730	0.92%
Na 589.592†	103833.9	10.19 mg/L	0.118	50.97 mg/L	0.592	3.96%
Na 330.237†	277.5	11.18 mg/L	0.347	55.92 mg/L	1.734	1.16%
Ni 231.604†	1952.8	0.5258 mg/L	0.00441	2.629 mg/L	0.0221	3.10%
Pb 220.353†	20419.9	2.883 mg/L	0.0048	14.41 mg/L	0.024	0.84%
Sb 206.836†	39.5	0.00897 mg/L	0.003442	0.04485 mg/L	0.017212	0.17%
Se 196.026†	2574.3	1.998 mg/L	0.0128	9.992 mg/L	0.0640	38.38%
Si 288.158†	1446.9	0.8350 mg/L	0.00581	4.175 mg/L	0.0291	0.64%
Sn 189.927†	-29.4	-0.00320 mg/L	0.001134	-0.01599 mg/L	0.005670	0.70%
Sr 421.552†	502730.9	0.6890 mg/L	0.00701	3.445 mg/L	0.0350	35.45%
Ti 334.903†	43875.5	2.496 mg/L	0.0262	12.48 mg/L	0.131	1.02%
Tl 190.801†	4136.3	1.936 mg/L	0.0011	9.682 mg/L	0.0054	1.05%
V 292.402†	60345.7	0.5693 mg/L	0.00089	2.847 mg/L	0.0045	0.06%
Zn 206.200†	5089.0	1.485 mg/L	0.0107	7.427 mg/L	0.0536	0.16%
						0.72%

Sequence No.: 37

Sample ID: VS22 MB1SPK SWC

Autosampler Location: 355

Date Collected: 11/27/2012 4:25:27 PM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VS22 MB1SPK SWC

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: VS22 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2369704.6	107.2	%	0.66				0.62%
ScR 361.383	302476.4	110.1	%	1.30				1.18%
Ag 328.068†	79404.4	0.5335	mg/L	0.00142	1.067	mg/L	0.0028	0.27%
Al 308.215†	2772.8	1.986	mg/L	0.0241	3.971	mg/L	0.0482	1.21%
As 188.979†	3210.2	2.060	mg/L	0.0177	4.120	mg/L	0.0354	0.86%
B 249.677†	4.8	-0.00033	mg/L	0.000780	-0.00066	mg/L	0.001560	238.12%
Ba 233.527†	7899.8	1.997	mg/L	0.0156	3.994	mg/L	0.0313	0.78%
Be 313.042†	263775.9	0.5044	mg/L	0.00492	1.009	mg/L	0.0098	0.98%
Ca 317.933†	120969.3	9.932	mg/L	0.0940	19.86	mg/L	0.188	0.95%
Cd 228.802†	13550.0	0.5242	mg/L	0.00192	1.048	mg/L	0.0038	0.37%
Co 228.616†	17189.6	0.5130	mg/L	0.00233	1.026	mg/L	0.0047	0.45%
Cr 267.716†	2836.6	0.5092	mg/L	0.00502	1.018	mg/L	0.0100	0.99%
Cu 324.752†	107271.8	0.4877	mg/L	0.00028	0.9754	mg/L	0.00056	0.06%
Fe 273.955†	2522.0	2.023	mg/L	0.0216	4.046	mg/L	0.0431	1.07%
K 766.490†	17150.8	9.850	mg/L	0.0962	19.70	mg/L	0.192	0.98%
Mg 279.077†	11994.2	10.14	mg/L	0.107	20.28	mg/L	0.215	1.06%
Mn 257.610†	16566.6	0.5060	mg/L	0.00532	1.012	mg/L	0.0106	1.05%
Mo 202.031†	15.2	0.00073	mg/L	0.000198	0.00145	mg/L	0.000396	27.24%
Na 589.592†	97449.6	9.567	mg/L	0.0885	19.13	mg/L	0.177	0.92%
Na 330.237†	269.5	10.62	mg/L	0.204	21.24	mg/L	0.408	1.92%
Ni 231.604†	1814.7	0.4885	mg/L	0.00343	0.9770	mg/L	0.00685	0.70%
Pb 220.353†	14286.8	2.011	mg/L	0.0117	4.022	mg/L	0.0235	0.58%
Sb 206.836†	8.0	-0.00260	mg/L	0.000388	-0.00520	mg/L	0.000777	14.94%
Se 196.026†	2575.0	1.999	mg/L	0.0185	3.998	mg/L	0.0369	0.92%
Si 288.158†	-5.0	0.00032	mg/L	0.002753	0.00064	mg/L	0.005505	856.57%
Sn 189.927†	-14.3	-0.00293	mg/L	0.001181	-0.00586	mg/L	0.002361	40.28%
Sr 421.552†	355913.8	0.4878	mg/L	0.00434	0.9756	mg/L	0.00867	0.89%
Ti 334.903†	21.4	0.00064	mg/L	0.000179	0.00129	mg/L	0.000358	27.81%
Tl 190.801†	4291.5	2.003	mg/L	0.0184	4.007	mg/L	0.0367	0.92%
V 292.402†	52628.2	0.4991	mg/L	0.00202	0.9981	mg/L	0.00403	0.40%
Zn 206.200†	1704.9	0.4976	mg/L	0.00436	0.9953	mg/L	0.00872	0.88%

Sequence No.: 38

Autosampler Location: 7

Sample ID: CV 12

Date Collected: 11/27/2012 4:29:27 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	216.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2333714.6	105.6 %	%	0.79			0.75%
ScR 361.383	294363.3	107.2 %	%	1.22			1.14%
Ag 328.068†	153377.4	1.031 mg/L	mg/L	0.0099	1.031 mg/L	0.0099	0.96%
Al 308.215†	2795.9	1.976 mg/L	mg/L	0.0179	1.976 mg/L	0.0179	0.91%
As 188.979†	3123.4	2.030 mg/L	mg/L	0.0273	2.030 mg/L	0.0273	1.34%
B 249.677†	6293.9	0.9609 mg/L	mg/L	0.00954	0.9609 mg/L	0.00954	0.99%
Ba 233.527†	3909.3	0.9881 mg/L	mg/L	0.00880	0.9881 mg/L	0.00880	0.89%
Be 313.042†	506145.5	0.9679 mg/L	mg/L	0.01044	0.9679 mg/L	0.01044	1.08%
Ca 317.933†	23110.7	1.897 mg/L	mg/L	0.0242	1.897 mg/L	0.0242	1.28%
Cd 228.802†	25881.3	1.014 mg/L	mg/L	0.0081	1.014 mg/L	0.0081	0.80%
Co 228.616†	33403.9	0.9953 mg/L	mg/L	0.00739	0.9953 mg/L	0.00739	0.74%
Cr 267.716†	5567.6	1.001 mg/L	mg/L	0.0088	1.001 mg/L	0.0088	0.88%
Cu 324.752†	220357.1	1.001 mg/L	mg/L	0.0096	1.001 mg/L	0.0096	0.95%
Fe 273.955†	2502.9	2.004 mg/L	mg/L	0.0136	2.004 mg/L	0.0136	0.68%
K 766.490†	34103.0	19.59 mg/L	mg/L	0.288	19.59 mg/L	0.288	1.47%
Mg 279.077†	2329.1	1.976 mg/L	mg/L	0.0170	1.976 mg/L	0.0170	0.86%
Mn 257.610†	31697.6	0.9678 mg/L	mg/L	0.01307	0.9678 mg/L	0.01307	1.35%
Mo 202.031†	17412.3	0.9901 mg/L	mg/L	0.00798	0.9901 mg/L	0.00798	0.81%
Na 589.592†	493510.2	48.45 mg/L	mg/L	0.567	48.45 mg/L	0.567	1.17%
Na 330.237†	1300.4	51.94 mg/L	mg/L	0.628	51.94 mg/L	0.628	1.21%
Ni 231.604†	3574.2	0.9642 mg/L	mg/L	0.00835	0.9642 mg/L	0.00835	0.87%
Pb 220.353†	14003.9	1.971 mg/L	mg/L	0.0098	1.971 mg/L	0.0098	0.50%
Sb 206.836†	6005.4	2.097 mg/L	mg/L	0.0253	2.097 mg/L	0.0253	1.21%
Se 196.026†	2515.4	1.952 mg/L	mg/L	0.0219	1.952 mg/L	0.0219	1.12%
Si 288.158†	3645.2	2.090 mg/L	mg/L	0.0262	2.090 mg/L	0.0262	1.26%
Sn 189.927†	3424.5	1.011 mg/L	mg/L	0.0125	1.011 mg/L	0.0125	1.23%
Sr 421.552†	695837.8	0.9536 mg/L	mg/L	0.01122	0.9536 mg/L	0.01122	1.18%
Ti 334.903†	17835.3	1.014 mg/L	mg/L	0.0127	1.014 mg/L	0.0127	1.25%
Tl 190.801†	4249.6	1.980 mg/L	mg/L	0.0203	1.980 mg/L	0.0203	1.03%
V 292.402†	103437.9	0.9810 mg/L	mg/L	0.00939	0.9810 mg/L	0.00939	0.96%
Zn 206.200†	3448.3	1.006 mg/L	mg/L	0.0104	1.006 mg/L	0.0104	1.03%

Sequence No.: 39

Sample ID: CB 9

Autosampler Location: 1

Date Collected: 11/27/2012 4:34:30 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2363761.7	106.9 %		1.01			
ScR 361.383	298431.8	108.7 %		0.70			0.95%
Ag 328.068†	4.8	0.00003 mg/L		0.000270	0.00003 mg/L	0.000270	0.65%
Al 308.215†	-1.0	-0.00076 mg/L		0.006025	-0.00076 mg/L	0.006025	832.25%
As 188.979†	2.5	0.00161 mg/L		0.001429	0.00161 mg/L	0.001429	793.76%
B 249.677†	6.2	0.00095 mg/L		0.001146	0.00095 mg/L	0.001146	88.82%
Ba 233.527†	0.1	0.00003 mg/L		0.000552	0.00003 mg/L	0.000552	120.98%
Be 313.042†	-3.8	-0.00001 mg/L		0.000015	-0.00001 mg/L	0.000015	>999.9%
Ca 317.933†	-6.1	-0.00050 mg/L		0.000086	-0.00050 mg/L	0.000086	206.18%
Cd 228.802†	-3.4	-0.00015 mg/L		0.000059	-0.00015 mg/L	0.000059	17.31%
Co 228.616†	11.4	0.00034 mg/L		0.000119	0.00034 mg/L	0.000119	40.57%
Cr 267.716†	7.4	0.00133 mg/L		0.000255	0.00133 mg/L	0.000255	34.70%
Cu 324.752†	-751.4	-0.00342 mg/L		0.000043	-0.00342 mg/L	0.000043	19.25%
Fe 273.955†	0.5	0.00039 mg/L		0.001627	0.00039 mg/L	0.001627	1.26%
K 766.490†	-52.3	-0.03003 mg/L		0.020925	-0.03003 mg/L	0.020925	422.09%
Mg 279.077†	-0.7	-0.00059 mg/L		0.005879	-0.00059 mg/L	0.005879	69.68%
Mn 257.610†	1.0	0.00003 mg/L		0.000057	0.00003 mg/L	0.000057	991.50%
Mo 202.031†	6.2	0.00035 mg/L		0.000440	0.00035 mg/L	0.000440	179.92%
Na 589.592†	54.7	0.00537 mg/L		0.000521	0.00537 mg/L	0.000521	125.45%
Na 330.237†	10.5	0.4183 mg/L		0.13983	0.4183 mg/L	0.13983	9.69%
Ni 231.604†	6.6	0.00177 mg/L		0.000865	0.00177 mg/L	0.000865	33.43%
Pb 220.353†	10.5	0.00149 mg/L		0.000845	0.00149 mg/L	0.000845	48.94%
Sb 206.836†	3.0	0.00103 mg/L		0.001750	0.00103 mg/L	0.001750	56.77%
Se 196.026†	-4.8	-0.00371 mg/L		0.002360	-0.00371 mg/L	0.002360	170.56%
Si 288.158†	-2.5	-0.00147 mg/L		0.001373	-0.00147 mg/L	0.001373	63.56%
Sn 189.927†	2.4	0.00070 mg/L		0.000556	0.00070 mg/L	0.000556	93.62%
Sr 421.552†	35.9	0.00005 mg/L		0.000020	0.00005 mg/L	0.000020	79.23%
Ti 334.903†	-6.5	-0.00037 mg/L		0.000274	-0.00037 mg/L	0.000274	40.98%
Tl 190.801†	5.6	0.00260 mg/L		0.002060	0.00260 mg/L	0.002060	73.77%
V 292.402†	2.0	0.00003 mg/L		0.000142	0.00003 mg/L	0.000142	79.25%
Zn 206.200†	0.5	0.00014 mg/L		0.000981	0.00014 mg/L	0.000981	566.26%
							683.38%

Sequence No.: 40

Sample ID: CRI

Autosampler Location: 356

Date Collected: 11/27/2012 4:38:45 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2375100.0	107.4 %		0.25			
ScR 361.383	296834.1	108.1 %		0.42			0.23%
Ag 328.068†	442.6	0.00297 mg/L		0.000136	0.00297 mg/L		0.39%
Al 308.215†	62.1	0.04447 mg/L		0.002662	0.04447 mg/L	0.000136	4.56%
As 188.979†	75.8	0.04877 mg/L		0.001780	0.04877 mg/L	0.002662	5.99%
B 249.677†	125.4	0.01917 mg/L		0.000559	0.01917 mg/L	0.001780	3.65%
Ba 233.527†	11.5	0.00290 mg/L		0.000721	0.00290 mg/L	0.000559	2.92%
Be 313.042†	476.2	0.00091 mg/L		0.000047	0.00290 mg/L	0.000721	24.83%
Ca 317.933†	581.0	0.04770 mg/L		0.001867	0.00091 mg/L	0.000047	5.13%
Cd 228.802†	54.6	0.00185 mg/L		0.000039	0.04770 mg/L	0.001867	3.91%
Co 228.616†	118.9	0.00354 mg/L		0.000051	0.00185 mg/L	0.000039	2.13%
Cr 267.716†	33.1	0.00594 mg/L		0.000764	0.00354 mg/L	0.000051	1.45%
Cu 324.752†	-334.0	-0.00152 mg/L		0.000061	0.00594 mg/L	0.000764	12.85%
Fe 273.955†	60.8	0.04883 mg/L		0.003484	-0.00152 mg/L	0.000061	4.00%
K 766.490†	805.3	0.4625 mg/L		0.03152	0.04883 mg/L	0.003484	7.13%
Mg 279.077†	56.1	0.04747 mg/L		0.003609	0.4625 mg/L	0.03152	6.81%
Mn 257.610†	31.7	0.00097 mg/L		0.000060	0.04747 mg/L	0.003609	7.60%
Mo 202.031†	85.4	0.00486 mg/L		0.000137	0.00097 mg/L	0.000060	6.20%
Na 589.592†	4735.1	0.4649 mg/L		0.00714	0.00486 mg/L	0.000137	2.82%
Na 330.237†	22.7	0.9075 mg/L		0.20289	0.4649 mg/L	0.00714	1.54%
Ni 231.604†	40.4	0.01090 mg/L		0.001154	0.9075 mg/L	0.20289	22.36%
Pb 220.353†	147.3	0.02074 mg/L		0.000682	0.01090 mg/L	0.001154	10.59%
Sb 206.836†	145.2	0.05074 mg/L		0.002269	0.02074 mg/L	0.000682	3.29%
Se 196.026†	58.8	0.04568 mg/L		0.001935	0.05074 mg/L	0.002269	4.47%
Si 288.158†	114.2	0.06545 mg/L		0.001262	0.04568 mg/L	0.001935	4.24%
Sn 189.927†	35.3	0.01044 mg/L		0.000821	0.06545 mg/L	0.001262	1.93%
Sr 421.552†	735.3	0.00101 mg/L		0.000014	0.01044 mg/L	0.000821	7.86%
Ti 334.903†	73.8	0.00419 mg/L		0.001188	0.00101 mg/L	0.000014	1.34%
Tl 190.801†	112.0	0.05239 mg/L		0.001664	0.00419 mg/L	0.001188	28.33%
V 292.402†	302.6	0.00288 mg/L		0.000141	0.05239 mg/L	0.001664	3.18%
Zn 206.200†	31.4	0.00918 mg/L		0.000543	0.00288 mg/L	0.000141	4.88%
					0.00918 mg/L	0.000543	5.91%

Sequence No.: 41
Sample ID: ICSA

Autosampler Location: 357
Date Collected: 11/27/2012 4:42:59 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 216.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2321198.1	105.0 %		0.55			
ScR 361.383	291056.7	106.0 %		0.86			0.52%
Ag 328.068†	-186.6	-0.00125 mg/L		0.000482	-0.00125 mg/L	0.000482	0.81%
Al 308.215†	273117.7	196.3 mg/L		1.05	196.3 mg/L	1.05	38.56%
As 188.979†	40.1	0.02017 mg/L		0.002251	0.02017 mg/L	0.002251	0.53%
B 249.677†	-17.2	-0.00263 mg/L		0.002549	-0.00263 mg/L	0.002549	11.16%
Ba 233.527†	111.7	-0.00359 mg/L		0.001614	-0.00359 mg/L	0.001614	96.86%
Be 313.042†	27.0	0.00005 mg/L		0.000011	0.00005 mg/L	0.000011	44.91%
Ca 317.933†	1195557.1	98.16 mg/L		0.516	98.16 mg/L	0.516	21.94%
Cd 228.802†	43.7	-0.00029 mg/L		0.000282	-0.00029 mg/L	0.000282	0.53%
Co 228.616†	58.2	-0.00081 mg/L		0.000197	-0.00081 mg/L	0.000197	97.73%
Cr 267.716†	10.6	-0.00015 mg/L		0.001269	-0.00015 mg/L	0.001269	24.42%
Cu 324.752†	-2520.6	-0.00372 mg/L		0.000149	-0.00372 mg/L	0.000149	863.29%
Fe 273.955†	242024.4	194.5 mg/L		0.94	194.5 mg/L	0.94	4.00%
K 766.490†	-14.1	-0.00808 mg/L		0.011805	-0.00808 mg/L	0.011805	0.48%
Mg 279.077†	120330.0	101.6 mg/L		1.34	101.6 mg/L	1.34	146.15%
Mn 257.610†	40.7	0.00122 mg/L		0.000205	0.00122 mg/L	0.000205	1.32%
Mo 202.031†	58.8	0.00228 mg/L		0.000457	0.00228 mg/L	0.000457	16.86%
Na 589.592†	157.8	0.01549 mg/L		0.002066	0.01549 mg/L	0.002066	20.02%
Na 330.237†	8.8	0.3547 mg/L		0.15095	0.3547 mg/L	0.15095	13.34%
Ni 231.604†	1.8	0.00049 mg/L		0.000716	0.00049 mg/L	0.000716	42.56%
Pb 220.353†	-297.2	-0.00283 mg/L		0.001698	-0.00283 mg/L	0.001698	145.23%
Sb 206.836†	21.5	0.00737 mg/L		0.001153	0.00737 mg/L	0.001153	59.91%
Se 196.026†	3.1	0.00242 mg/L		0.004900	0.00242 mg/L	0.004900	15.63%
Si 288.158†	-29.0	-0.00434 mg/L		0.002642	-0.00434 mg/L	0.002642	202.11%
Sn 189.927†	-63.6	-0.00661 mg/L		0.000517	-0.00661 mg/L	0.000517	60.92%
Sr 421.552†	2885.1	0.00395 mg/L		0.000081	0.00395 mg/L	0.000081	7.82%
Ti 334.903†	103.3	0.00120 mg/L	Cont.	0.000494	0.00120 mg/L	0.000494	2.04%
Tl 190.801†	-35.2	0.00427 mg/L		0.000619	0.00427 mg/L	0.000619	41.30%
V 292.402†	1180.1	0.00435 mg/L		0.000176	0.00435 mg/L	0.000176	14.49%
Zn 206.200†	6.0	0.00176 mg/L		0.000467	0.00176 mg/L	0.000467	4.05%
							26.57%

Sequence No.: 42

Sample ID: ICSAB

Autosampler Location: 358

Date Collected: 11/27/2012 4:47:15 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2339882.5	105.8 %	0.26			
ScR 361.383	290849.8	105.9 %	1.07			
Ag 328.068†	148248.6	0.9961 mg/L	0.00162	0.9961 mg/L	0.00162	1.01%
Al 308.215†	270755.9	194.6 mg/L	0.37	194.6 mg/L	0.37	0.16%
As 188.979†	1605.0	1.024 mg/L	0.0024	1.024 mg/L	0.0024	0.19%
B 249.677†	-13.5	-0.00406 mg/L	0.000295	-0.00406 mg/L	0.000295	0.23%
Ba 233.527†	4009.6	0.9819 mg/L	0.00767	0.9819 mg/L	0.00767	7.25%
Be 313.042†	513180.4	0.9814 mg/L	0.00268	0.9814 mg/L	0.00268	0.78%
Ca 317.933†	1202916.9	98.77 mg/L	0.201	98.77 mg/L	0.201	0.27%
Cd 228.802†	25440.2	1.001 mg/L	0.0011	1.001 mg/L	0.0011	0.20%
Co 228.616†	32536.2	0.9687 mg/L	0.00146	0.9687 mg/L	0.00146	0.11%
Cr 267.716†	5606.1	1.006 mg/L	0.0104	1.006 mg/L	0.0104	0.15%
Cu 324.752†	212785.8	0.9752 mg/L	0.00115	0.9752 mg/L	0.00115	1.03%
Fe 273.955†	242413.6	194.8 mg/L	0.11	194.8 mg/L	0.00115	0.12%
K 766.490†	-76.1	-0.04371 mg/L	0.006144	-0.04371 mg/L	0.11	0.06%
Mg 279.077†	115698.2	97.72 mg/L	0.183	97.72 mg/L	0.006144	14.06%
Mn 257.610†	31763.1	0.9696 mg/L	0.00305	0.9696 mg/L	0.183	0.19%
Mo 202.031†	59.2	0.00224 mg/L	0.000484	0.00224 mg/L	0.00305	0.31%
Na 589.592†	270.1	0.02652 mg/L	0.003384	0.02652 mg/L	0.000484	21.57%
Na 330.237†	17.5	0.3851 mg/L	0.29705	0.3851 mg/L	0.003384	12.76%
Ni 231.604†	3487.4	0.9406 mg/L	0.00441	0.9406 mg/L	0.29705	77.13%
Pb 220.353†	6623.4	0.9711 mg/L	0.00144	0.9711 mg/L	0.00441	0.47%
Sb 206.836†	2904.3	1.004 mg/L	0.0021	1.004 mg/L	0.00144	0.15%
Se 196.026†	1266.2	0.9823 mg/L	0.00844	0.9823 mg/L	0.0021	0.21%
Si 288.158†	-30.9	-0.00226 mg/L	0.005126	-0.00226 mg/L	0.00844	0.86%
Sn 189.927†	-65.5	-0.00660 mg/L	0.001836	-0.00660 mg/L	0.005126	226.33%
Sr 421.552†	2848.0	0.00390 mg/L	0.000038	0.00390 mg/L	0.001836	27.81%
Ti 334.903†	105.6	0.00109 mg/L	0.000284	0.00109 mg/L	0.000038	0.98%
Tl 190.801†	1949.8	0.9241 mg/L	0.00411	0.9241 mg/L	0.000284	25.92%
V 292.402†	99265.9	0.9349 mg/L	0.00222	0.9349 mg/L	0.00411	0.45%
Zn 206.200†	3273.0	0.9552 mg/L	0.00861	0.9552 mg/L	0.00222	0.24%

Sequence No.: 43

Sample ID: CV 13

Autosampler Location: 7

Date Collected: 11/27/2012 4:51:03 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	216.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2355692.6	106.5 %		0.30			0.28%
ScR 361.383	293543.5	106.9 %		0.98			0.92%
Ag 328.068†	152975.5	1.028 mg/L		0.0051	1.028 mg/L	0.0051	0.49%
Al 308.215†	2846.0	2.012 mg/L		0.0170	2.012 mg/L	0.0170	0.85%
As 188.979†	3121.3	2.029 mg/L		0.0058	2.029 mg/L	0.0058	0.28%
B 249.677†	6354.4	0.9701 mg/L		0.00690	0.9701 mg/L	0.00690	0.71%
Ba 233.527†	3939.2	0.9956 mg/L		0.00981	0.9956 mg/L	0.00981	0.99%
Be 313.042†	508213.0	0.9719 mg/L		0.01388	0.9719 mg/L	0.01388	1.43%
Ca 317.933†	23661.4	1.943 mg/L		0.0250	1.943 mg/L	0.0250	1.29%
Cd 228.802†	25927.4	1.016 mg/L		0.0061	1.016 mg/L	0.0061	0.60%
Co 228.616†	33401.9	0.9952 mg/L		0.00668	0.9952 mg/L	0.00668	0.67%
Cr 267.716†	5639.2	1.014 mg/L		0.0098	1.014 mg/L	0.0098	0.96%
Cu 324.752†	219940.3	0.9994 mg/L		0.00494	0.9994 mg/L	0.00494	0.49%
Fe 273.955†	2578.8	2.065 mg/L		0.0223	2.065 mg/L	0.0223	1.08%
K 766.490†	34596.2	19.87 mg/L		0.249	19.87 mg/L	0.249	1.26%
Mg 279.077†	2389.8	2.028 mg/L		0.0178	2.028 mg/L	0.0178	0.88%
Mn 257.610†	32314.0	0.9866 mg/L		0.01291	0.9866 mg/L	0.01291	1.31%
Mo 202.031†	17463.5	0.9930 mg/L		0.00732	0.9930 mg/L	0.00732	0.74%
Na 589.592†	497046.7	48.80 mg/L		0.567	48.80 mg/L	0.567	1.16%
Na 330.237†	1314.5	52.50 mg/L		0.327	52.50 mg/L	0.327	0.62%
Ni 231.604†	3623.2	0.9774 mg/L		0.00921	0.9774 mg/L	0.00921	0.94%
Pb 220.353†	14054.0	1.978 mg/L		0.0121	1.978 mg/L	0.0121	0.61%
Sb 206.836†	6001.7	2.096 mg/L		0.0035	2.096 mg/L	0.0035	0.17%
Se 196.026†	2518.1	1.954 mg/L		0.0089	1.954 mg/L	0.0089	0.46%
Si 288.158†	3693.0	2.117 mg/L		0.0184	2.117 mg/L	0.0184	0.87%
Sn 189.927†	3424.3	1.011 mg/L		0.0025	1.011 mg/L	0.0025	0.24%
Sr 421.552†	702984.6	0.9634 mg/L		0.01176	0.9634 mg/L	0.01176	1.22%
Ti 334.903†	17997.2	1.023 mg/L		0.0126	1.023 mg/L	0.0126	1.23%
Tl 190.801†	4238.9	1.975 mg/L		0.0054	1.975 mg/L	0.0054	0.27%
V 292.402†	103533.7	0.9819 mg/L		0.00606	0.9819 mg/L	0.00606	0.62%
Zn 206.200†	3526.3	1.029 mg/L		0.0095	1.029 mg/L	0.0095	0.92%

Sequence No.: 44

Sample ID: CB 10

Autosampler Location: 1

Date Collected: 11/27/2012 4:56:08 PM

Data Type: Original

Dilution: 1.00000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2360513.3	106.8	%	0.55				0.52%
ScR 361.383	294551.6	107.2	%	0.28				0.26%
Ag 328.068†	-22.7	-0.00015	mg/L	0.000237	-0.00015	mg/L	0.000237	155.72%
Al 308.215†	-0.4	-0.00027	mg/L	0.001294	-0.00027	mg/L	0.001294	483.41%
As 188.979†	2.8	0.00177	mg/L	0.001274	0.00177	mg/L	0.001274	71.94%
B 249.677†	5.9	0.00090	mg/L	0.001461	0.00090	mg/L	0.001461	161.80%
Ba 233.527†	-0.3	-0.00008	mg/L	0.000981	-0.00008	mg/L	0.000981	>999.9%
Be 313.042†	-2.5	-0.00000	mg/L	0.000009	-0.00000	mg/L	0.000009	192.79%
Ca 317.933†	8.6	0.00071	mg/L	0.001129	0.00071	mg/L	0.001129	160.02%
Cd 228.802†	-3.7	-0.00016	mg/L	0.000129	-0.00016	mg/L	0.000129	81.80%
Co 228.616†	10.2	0.00031	mg/L	0.000032	0.00031	mg/L	0.000032	10.53%
Cr 267.716†	4.2	0.00076	mg/L	0.001456	0.00076	mg/L	0.001456	191.69%
Cu 324.752†	-732.6	-0.00333	mg/L	0.000105	-0.00333	mg/L	0.000105	3.15%
Fe 273.955†	3.0	0.00239	mg/L	0.002316	0.00239	mg/L	0.002316	96.96%
K 766.490†	-47.8	-0.02746	mg/L	0.009601	-0.02746	mg/L	0.009601	34.96%
Mg 279.077†	-0.8	-0.00067	mg/L	0.002035	-0.00067	mg/L	0.002035	304.90%
Mn 257.610†	2.8	0.00009	mg/L	0.000087	0.00009	mg/L	0.000087	100.90%
Mo 202.031†	8.3	0.00047	mg/L	0.000329	0.00047	mg/L	0.000329	69.63%
Na 589.592†	6.5	0.00064	mg/L	0.004989	0.00064	mg/L	0.004989	779.63%
Na 330.237†	18.0	0.7205	mg/L	0.49021	0.7205	mg/L	0.49021	68.03%
Ni 231.604†	1.1	0.00030	mg/L	0.001041	0.00030	mg/L	0.001041	342.11%
Pb 220.353†	12.9	0.00182	mg/L	0.000997	0.00182	mg/L	0.000997	54.69%
Sb 206.836†	3.9	0.00135	mg/L	0.001237	0.00135	mg/L	0.001237	91.58%
Se 196.026†	2.6	0.00198	mg/L	0.002872	0.00198	mg/L	0.002872	144.89%
Si 288.158†	3.5	0.00200	mg/L	0.006138	0.00200	mg/L	0.006138	306.24%
Sn 189.927†	2.4	0.00070	mg/L	0.000555	0.00070	mg/L	0.000555	79.40%
Sr 421.552†	34.9	0.00005	mg/L	0.000043	0.00005	mg/L	0.000043	89.74%
Ti 334.903†	1.5	0.00009	mg/L	0.000209	0.00009	mg/L	0.000209	240.57%
Tl 190.801†	11.4	0.00531	mg/L	0.001210	0.00531	mg/L	0.001210	22.78%
V 292.402†	-5.1	-0.00004	mg/L	0.000046	-0.00004	mg/L	0.000046	103.06%
Zn 206.200†	0.6	0.00018	mg/L	0.000283	0.00018	mg/L	0.000283	155.54%

Sequence No.: 45
 Sample ID: VR80 C TWC

Autosampler Location: 359
 Date Collected: 11/27/2012 5:00:23 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: VR80 C TWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VR80 C TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2364837.0	107.0	%	0.85			
ScR 361.383	297182.6	108.2	%	0.46			0.80%
Ag 328.068†	-13.1	-0.00009	mg/L	0.000336	-0.00009 mg/L	0.000336	0.42%
Al 308.215†	150.8	0.1084	mg/L	0.00302	0.1084 mg/L	0.00302	382.22%
As 188.979†	11.1	0.00656	mg/L	0.000936	0.00656 mg/L	0.000936	2.79%
B 249.677†	119.9	0.01833	mg/L	0.000764	0.01833 mg/L	0.000764	14.26%
Ba 233.527†	32.3	0.00810	mg/L	0.000530	0.00810 mg/L	0.000530	4.17%
Be 313.042†	-23.3	-0.00004	mg/L	0.000042	-0.00004 mg/L	0.000042	6.54%
Ca 317.933†	138389.9	11.36	mg/L	0.049	11.36 mg/L	0.000042	92.82%
Cd 228.802†	-2.3	-0.00014	mg/L	0.000080	-0.00014 mg/L	0.000080	0.43%
Co 228.616†	9.6	0.00027	mg/L	0.000168	0.00027 mg/L	0.000080	57.08%
Cr 267.716†	10.5	0.00137	mg/L	0.000817	0.00137 mg/L	0.000168	61.69%
Cu 324.752†	195.9	0.00086	mg/L	0.000041	0.00086 mg/L	0.000817	59.46%
Fe 273.955†	497.7	0.4000	mg/L	0.00121	0.00086 mg/L	0.000041	4.79%
K 766.490†	3320.1	1.907	mg/L	0.0145	0.4000 mg/L	0.00121	0.30%
Mg 279.077†	5882.8	4.973	mg/L	0.0544	1.907 mg/L	0.0145	0.76%
Mn 257.610†	1063.1	0.03242	mg/L	0.000235	4.973 mg/L	0.0544	1.09%
Mo 202.031†	21.5	0.00110	mg/L	0.000122	0.03242 mg/L	0.000235	0.73%
Na 589.592†	53966.0	5.298	mg/L	0.0150	0.00110 mg/L	0.000122	11.09%
Na 330.237†	154.3	6.175	mg/L	0.3784	5.298 mg/L	0.0150	0.28%
Ni 231.604†	11.2	0.00303	mg/L	0.000974	6.175 mg/L	0.3784	6.13%
Pb 220.353†	4.3	0.00061	mg/L	0.000684	0.00303 mg/L	0.000974	32.17%
Sb 206.836†	-0.5	-0.00022	mg/L	0.001448	0.00061 mg/L	0.000684	111.45%
Se 196.026†	-5.9	-0.00456	mg/L	0.001771	-0.00022 mg/L	0.001448	644.71%
Si 288.158†	9906.5	5.683	mg/L	0.0581	-0.00456 mg/L	0.001771	38.85%
Sn 189.927†	-16.7	-0.00352	mg/L	0.000709	5.683 mg/L	0.0581	1.02%
Sr 421.552†	50072.3	0.06862	mg/L	0.000296	-0.00352 mg/L	0.000709	20.11%
Ti 334.903†	74.3	0.00369	mg/L	0.001449	0.06862 mg/L	0.000296	0.43%
Tl 190.801†	8.3	0.00393	mg/L	0.001738	0.00369 mg/L	0.001449	39.27%
V 292.402†	121.5	0.00114	mg/L	0.000065	0.00393 mg/L	0.001738	44.23%
Zn 206.200†	15.4	0.00449	mg/L	0.000546	0.00114 mg/L	0.000065	5.70%
					0.00449 mg/L	0.000546	12.14%

Sequence No.: 46
 Sample ID: VR82 F SWC

Autosampler Location: 360
 Date Collected: 11/27/2012 5:04:38 PM
 Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 F SWC

Analyte Back Pressure Flow
 All 216.0 kPa 0.75 L/min

Mean Data: VR82 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2394232.2	108.3 %	%	0.70			0.64%
ScR 361.383	303121.2	110.4 %	%	0.70			0.64%
Ag 328.068†	-47.8	-0.00027 mg/L	mg/L	0.000194	-0.00055 mg/L	0.000388	70.50%
Al 308.215†	67145.0	48.25 mg/L	mg/L	0.379	96.51 mg/L	0.758	0.79%
As 188.979†	-87.5	0.02397 mg/L	mg/L	0.002194	0.04795 mg/L	0.004388	9.15%
B 249.677†	75.5	0.01146 mg/L	mg/L	0.000279	0.02292 mg/L	0.000558	2.43%
Ba 233.527†	1341.4	0.3268 mg/L	mg/L	0.00206	0.6536 mg/L	0.00412	0.63%
Be 313.042†	438.6	0.00077 mg/L	mg/L	0.000021	0.00155 mg/L	0.000042	2.73%
Ca 317.933†	242871.3	19.94 mg/L	mg/L	0.207	39.88 mg/L	0.415	1.04%
Cd 228.802†	53.5	0.00190 mg/L	mg/L	0.000109	0.00379 mg/L	0.000218	5.75%
Co 228.616†	1424.4	0.03600 mg/L	mg/L	0.000284	0.07200 mg/L	0.000569	0.79%
Cr 267.716†	788.4	0.1426 mg/L	mg/L	0.00188	0.2853 mg/L	0.00376	1.32%
Cu 324.752†	20926.0	0.09771 mg/L	mg/L	0.000732	0.1954 mg/L	0.00146	0.75%
Fe 273.955†	93915.3	75.47 mg/L	mg/L	0.573	150.9 mg/L	1.15	0.76%
K 766.490†	4219.0	2.423 mg/L	mg/L	0.0470	4.846 mg/L	0.0940	1.94%
Mg 279.077†	23734.8	20.03 mg/L	mg/L	0.128	40.05 mg/L	0.256	0.64%
Mn 257.610†	62009.5	1.893 mg/L	mg/L	0.0142	3.786 mg/L	0.0285	0.75%
Mo 202.031†	49.2	0.00257 mg/L	mg/L	0.000125	0.00515 mg/L	0.000250	4.85%
Na 589.592†	9656.4	0.9481 mg/L	mg/L	0.00471	1.896 mg/L	0.0094	0.50%
Na 330.237†	23.5	1.449 mg/L	mg/L	0.0634	2.897 mg/L	0.1267	4.37%
Ni 231.604†	513.1	0.1384 mg/L	mg/L	0.00131	0.2767 mg/L	0.00262	0.95%
Pb 220.353†	454.2	0.07249 mg/L	mg/L	0.001779	0.1450 mg/L	0.00356	2.45%
Sb 206.836†	6.4	0.00203 mg/L	mg/L	0.000329	0.00406 mg/L	0.000658	16.18%
Se 196.026†	4.3	0.00326 mg/L	mg/L	0.002005	0.00651 mg/L	0.004011	61.61%
Si 288.158†	12620.0	7.241 mg/L	mg/L	0.0490	14.48 mg/L	0.098	0.68%
Sn 189.927†	-13.1	-0.00100 mg/L	mg/L	0.001055	-0.00199 mg/L	0.002110	105.82%
Sr 421.552†	96748.3	0.1326 mg/L	mg/L	0.00099	0.2652 mg/L	0.00199	0.75%
Ti 334.903†	49987.3	2.845 mg/L	mg/L	0.0243	5.690 mg/L	0.0485	0.85%
Tl 190.801†	-3.9	0.00542 mg/L	mg/L	0.000614	0.01083 mg/L	0.001227	11.33%
V 292.402†	16854.6	0.1558 mg/L	mg/L	0.00092	0.3116 mg/L	0.00184	0.59%
Zn 206.200†	1465.5	0.4277 mg/L	mg/L	0.00419	0.8554 mg/L	0.00838	0.98%

Sequence No.: 47
 Sample ID: VR82 G SWC

Autosampler Location: 361
 Date Collected: 11/27/2012 5:08:37 PM
 Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 G SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VR82 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2397849.6	108.5 %		0.85			
ScR 361.383	302716.8	110.2 %		0.83			0.78%
Ag 328.068†	-67.2	-0.00040 mg/L		0.000055	-0.00081 mg/L	0.000109	0.75%
Al 308.215†	70561.6	50.71 mg/L		0.688	101.4 mg/L	1.38	13.48%
As 188.979†	-94.5	0.02137 mg/L		0.004160	0.04275 mg/L	0.008320	1.36%
B 249.677†	73.4	0.01114 mg/L		0.001974	0.02227 mg/L	0.003947	19.46%
Ba 233.527†	1422.7	0.3471 mg/L		0.00394	0.6941 mg/L	0.00788	17.72%
Be 313.042†	458.6	0.00081 mg/L		0.000031	0.00162 mg/L	0.000062	1.13%
Ca 317.933†	241937.2	19.86 mg/L		0.300	39.73 mg/L	0.600	3.80%
Cd 228.802†	50.7	0.00180 mg/L		0.000041	0.00361 mg/L	0.000083	1.51%
Co 228.616†	1440.4	0.03632 mg/L		0.000260	0.07264 mg/L	0.000521	2.29%
Cr 267.716†	853.0	0.1543 mg/L		0.00097	0.3085 mg/L	0.00195	0.72%
Cu 324.752†	19902.6	0.09312 mg/L		0.001259	0.1862 mg/L	0.00252	0.63%
Fe 273.955†	96192.5	77.30 mg/L		1.349	154.6 mg/L	2.70	1.35%
K 766.490†	4466.6	2.565 mg/L		0.0446	5.130 mg/L	0.0892	1.74%
Mg 279.077†	24872.6	20.99 mg/L		0.207	41.97 mg/L	0.414	1.74%
Mn 257.610†	61905.1	1.890 mg/L		0.0307	3.779 mg/L	0.0614	0.99%
Mo 202.031†	47.4	0.00247 mg/L		0.000081	0.00494 mg/L	0.000161	1.63%
Na 589.592†	9773.9	0.9596 mg/L		0.00979	1.919 mg/L	0.0196	3.26%
Na 330.237†	20.9	1.360 mg/L		0.2493	2.720 mg/L	0.4986	1.02%
Ni 231.604†	532.9	0.1437 mg/L		0.00205	0.2874 mg/L	0.00410	18.33%
Pb 220.353†	434.4	0.07023 mg/L		0.000239	0.1405 mg/L	0.00048	1.43%
Sb 206.836†	3.0	0.00068 mg/L		0.003176	0.00137 mg/L	0.00048	0.34%
Se 196.026†	1.2	0.00079 mg/L		0.003777	0.00157 mg/L	0.006353	465.32%
Si 288.158†	12223.6	7.014 mg/L		0.0673	14.03 mg/L	0.007554	480.51%
Sn 189.927†	-25.5	-0.00466 mg/L		0.000827	-0.00931 mg/L	0.135	0.96%
Sr 421.552†	97885.9	0.1342 mg/L		0.00184	0.2683 mg/L	0.001653	17.76%
Ti 334.903†	51182.3	2.913 mg/L		0.0438	5.826 mg/L	0.00368	1.37%
Tl 190.801†	-3.4	0.00583 mg/L		0.001034	0.01166 mg/L	0.0877	1.51%
V 292.402†	17284.4	0.1598 mg/L		0.00173	0.3196 mg/L	0.002068	17.73%
Zn 206.200†	1445.1	0.4217 mg/L		0.00542	0.8435 mg/L	0.00345	1.08%
						0.01084	1.28%

Del

Sequence No.: 48
 Sample ID: VR82 H SWC

Autosampler Location: 362
 Date Collected: 11/27/2012 5:12:37 PM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: VR82 H SWC

Analyte Back Pressure Flow
 All 216.0 kPa 0.75 L/min

Mean Data: VR82 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2387165.7	108.0	%	0.32				0.30%
ScR 361.383	303951.5	110.7	%	0.47				0.42%
Ag 328.068†	-101.5	-0.00063	mg/L	0.000205	-0.00125	mg/L	0.000410	32.71%
Al 308.215†	86059.6	61.85	mg/L	0.165	123.7	mg/L	0.33	0.27%
As 188.979†	-120.8	0.02262	mg/L	0.001125	0.04524	mg/L	0.002250	4.97%
B 249.677†	80.4	0.01220	mg/L	0.000741	0.02439	mg/L	0.001481	6.07%
Ba 233.527†	1538.9	0.3744	mg/L	0.00396	0.7488	mg/L	0.00792	1.06%
Be 313.042†	514.6	0.00090	mg/L	0.000037	0.00181	mg/L	0.000073	4.06%
Ca 317.933†	261075.9	21.44	mg/L	0.075	42.87	mg/L	0.150	0.35%
Cd 228.802†	59.1	0.00215	mg/L	0.000135	0.00429	mg/L	0.000269	6.27%
Co 228.616†	1641.6	0.04092	mg/L	0.000418	0.08185	mg/L	0.000836	1.02%
Cr 267.716†	1021.8	0.1848	mg/L	0.00235	0.3696	mg/L	0.00469	1.27%
Cu 324.752†	23290.8	0.1089	mg/L	0.00027	0.2178	mg/L	0.00054	0.25%
Fe 273.955†	111758.3	89.81	mg/L	0.186	179.6	mg/L	0.37	0.21%
K 766.490†	5160.1	2.963	mg/L	0.0279	5.927	mg/L	0.0558	0.94%
Mg 279.077†	29027.4	24.49	mg/L	0.311	48.99	mg/L	0.622	1.27%
Mn 257.610†	65516.3	2.000	mg/L	0.0052	4.000	mg/L	0.0104	0.26%
Mo 202.031†	47.7	0.00247	mg/L	0.000153	0.00494	mg/L	0.000305	6.18%
Na 589.592†	11877.8	1.166	mg/L	0.0032	2.332	mg/L	0.0065	0.28%
Na 330.237†	20.1	1.458	mg/L	0.0635	2.917	mg/L	0.1270	4.35%
Ni 231.604†	612.2	0.1651	mg/L	0.00194	0.3302	mg/L	0.00388	1.18%
Pb 220.353†	534.7	0.08653	mg/L	0.000677	0.1731	mg/L	0.00135	0.78%
Sb 206.836†	5.7	0.00153	mg/L	0.002936	0.00307	mg/L	0.005871	191.45%
Se 196.026†	0.6	0.00037	mg/L	0.006047	0.00074	mg/L	0.012094	>999.9%
Si 288.158†	13437.4	7.710	mg/L	0.0968	15.42	mg/L	0.194	1.26%
Sn 189.927†	-28.8	-0.00533	mg/L	0.000430	-0.01066	mg/L	0.000859	8.06%
Sr 421.552†	103963.3	0.1425	mg/L	0.00044	0.2850	mg/L	0.00089	0.31%
Ti 334.903†	62400.2	3.552	mg/L	0.0088	7.103	mg/L	0.0176	0.25%
Tl 190.801†	-7.2	0.00524	mg/L	0.003135	0.01047	mg/L	0.006269	59.87%
V 292.402†	19931.5	0.1841	mg/L	0.00053	0.3683	mg/L	0.00107	0.29%
Zn 206.200†	1601.1	0.4673	mg/L	0.00624	0.9346	mg/L	0.01249	1.34%

Sequence No.: 49
 Sample ID: VR82 I SWC

Autosampler Location: 363
 Date Collected: 11/27/2012 5:16:36 PM
 Data Type: Original

Dilution: 2.000000X

Del

Nebulizer Parameters: VR82 I SWC

Analyte Back Pressure Flow
 All 217.0 kPa 0.75 L/min

Mean Data: VR82 I SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2359279.0	106.7 %	%	0.49			0.46%
ScR 361.383	299897.2	109.2 %	%	0.38			0.35%
Ag 328.068†	-55.2	-0.00032	mg/L	0.000109	-0.00064	0.000218	33.91%
Al 308.215†	76175.6	54.74	mg/L	0.249	109.5	0.50	0.46%
As 188.979†	-105.7	0.02110	mg/L	0.000895	0.04221	0.001789	4.24%
B 249.677†	67.9	0.01030	mg/L	0.000373	0.02060	0.000747	3.63%
Ba 233.527†	1389.6	0.3384	mg/L	0.00199	0.6768	0.00398	0.59%
Be 313.042†	483.2	0.00085	mg/L	0.000031	0.00170	0.000061	3.59%
Ca 317.933†	242372.5	19.90	mg/L	0.117	39.80	0.233	0.59%
Cd 228.802†	54.8	0.00199	mg/L	0.000250	0.00399	0.000499	12.53%
Co 228.616†	1414.3	0.03505	mg/L	0.000161	0.07010	0.000322	0.46%
Cr 267.716†	902.6	0.1633	mg/L	0.00144	0.3265	0.00288	0.88%
Cu 324.752†	21254.0	0.09928	mg/L	0.000207	0.1986	0.00041	0.21%
Fe 273.955†	98323.3	79.01	mg/L	0.599	158.0	1.20	0.76%
K 766.490†	4770.1	2.739	mg/L	0.0406	5.479	0.0812	1.48%
Mg 279.077†	25060.4	21.15	mg/L	0.076	42.29	0.152	0.36%
Mn 257.610†	56315.3	1.719	mg/L	0.0110	3.438	0.0221	0.64%
Mo 202.031†	46.1	0.00240	mg/L	0.000393	0.00480	0.000787	16.41%
Na 589.592†	10408.7	1.022	mg/L	0.0074	2.044	0.0149	0.73%
Na 330.237†	18.5	1.314	mg/L	0.0996	2.628	0.1992	7.58%
Ni 231.604†	522.2	0.1408	mg/L	0.00097	0.2817	0.00195	0.69%
Pb 220.353†	519.0	0.08305	mg/L	0.001268	0.1661	0.00254	1.53%
Sb 206.836†	6.0	0.00174	mg/L	0.002032	0.00348	0.004064	116.79%
Se 196.026†	7.7	0.00590	mg/L	0.004241	0.01179	0.008482	71.93%
Si 288.158†	13480.9	7.735	mg/L	0.0109	15.47	0.022	0.14%
Sn 189.927†	-21.5	-0.00342	mg/L	0.000916	-0.00685	0.001833	26.76%
Sr 421.552†	95490.6	0.1309	mg/L	0.00058	0.2617	0.00117	0.45%
Ti 334.903†	55443.6	3.156	mg/L	0.0179	6.311	0.0359	0.57%
Tl 190.801†	-2.4	0.00644	mg/L	0.004983	0.01287	0.009967	77.41%
V 292.402†	17896.5	0.1654	mg/L	0.00056	0.3308	0.00113	0.34%
Zn 206.200†	1494.1	0.4360	mg/L	0.00280	0.8721	0.00560	0.64%

Sequence No.: 50

Sample ID: CV 14

Autosampler Location: 7

Date Collected: 11/27/2012 5:20:35 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std. Dev.	
ScA 357.253	2318279.9		104.9 %	0.33			0.32%
ScR 361.383	292649.2		106.5 %	0.99			0.93%
Ag 328.068†	154195.5		1.036 mg/L	0.0038	1.036 mg/L	0.0038	0.36%
Al 308.215†	2834.3		2.003 mg/L	0.0290	2.003 mg/L	0.0290	1.45%
As 188.979†	3163.2		2.056 mg/L	0.0137	2.056 mg/L	0.0137	0.67%
B 249.677†	6336.1		0.9673 mg/L	0.01407	0.9673 mg/L	0.01407	1.45%
Ba 233.527†	3945.3		0.9972 mg/L	0.01424	0.9972 mg/L	0.01424	1.43%
Be 313.042†	513495.9		0.9820 mg/L	0.01130	0.9820 mg/L	0.01130	1.15%
Ca 317.933†	23520.0		1.931 mg/L	0.0211	1.931 mg/L	0.0211	1.10%
Cd 228.802†	26126.3		1.024 mg/L	0.0059	1.024 mg/L	0.0059	0.57%
Co 228.616†	33638.0		1.002 mg/L	0.0055	1.002 mg/L	0.0055	0.55%
Cr 267.716†	5627.6		1.012 mg/L	0.0136	1.012 mg/L	0.0136	1.34%
Cu 324.752†	221814.3		1.008 mg/L	0.0034	1.008 mg/L	0.0034	0.34%
Fe 273.955†	2542.9		2.037 mg/L	0.0211	2.037 mg/L	0.0211	1.03%
K 766.490†	34448.4		19.78 mg/L	0.127	19.78 mg/L	0.127	0.64%
Mg 279.077†	2373.2		2.014 mg/L	0.0208	2.014 mg/L	0.0208	1.03%
Mn 257.610†	32256.3		0.9849 mg/L	0.01014	0.9849 mg/L	0.01014	1.03%
Mo 202.031†	17591.5		1.000 mg/L	0.0073	1.000 mg/L	0.0073	0.73%
Na 589.592†	495325.8		48.63 mg/L	0.452	48.63 mg/L	0.452	0.93%
Na 330.237†	1310.6		52.35 mg/L	0.576	52.35 mg/L	0.576	1.10%
Ni 231.604†	3625.2		0.9779 mg/L	0.01181	0.9779 mg/L	0.01181	1.21%
Pb 220.353†	14133.4		1.990 mg/L	0.0125	1.990 mg/L	0.0125	0.63%
Sb 206.836†	6064.2		2.118 mg/L	0.0104	2.118 mg/L	0.0104	0.49%
Se 196.026†	2534.0		1.967 mg/L	0.0103	1.967 mg/L	0.0103	0.52%
Si 288.158†	3701.6		2.122 mg/L	0.0290	2.122 mg/L	0.0290	1.37%
Sn 189.927†	3471.5		1.025 mg/L	0.0067	1.025 mg/L	0.0067	0.65%
Sr 421.552†	701280.8		0.9611 mg/L	0.00819	0.9611 mg/L	0.00819	0.85%
Ti 334.903†	18044.5		1.026 mg/L	0.0112	1.026 mg/L	0.0112	1.09%
Tl 190.801†	4288.0		1.998 mg/L	0.0122	1.998 mg/L	0.0122	0.61%
V 292.402†	104073.3		0.9870 mg/L	0.00449	0.9870 mg/L	0.00449	0.45%
Zn 206.200†	3509.9		1.024 mg/L	0.0141	1.024 mg/L	0.0141	1.38%

Sequence No.: 51

Autosampler Location: 1

Sample ID: CB

Date Collected: 11/27/2012 5:25:40 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	217.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2361506.7	106.8	%	0.86			0.80%
ScR 361.383	297716.5	108.4	%	0.74			0.68%
Ag 328.068†	-3.1	-0.00002	mg/L	0.000191	-0.00002 mg/L	0.000191	915.44%
Al 308.215†	-7.9	-0.00566	mg/L	0.001586	-0.00566 mg/L	0.001586	28.02%
As 188.979†	0.4	0.00028	mg/L	0.001045	0.00028 mg/L	0.001045	376.76%
B 249.677†	7.3	0.00112	mg/L	0.000595	0.00112 mg/L	0.000595	53.08%
Ba 233.527†	0.2	0.00006	mg/L	0.000372	0.00006 mg/L	0.000372	623.05%
Be 313.042†	1.8	0.00000	mg/L	0.000028	0.00000 mg/L	0.000028	839.67%
Ca 317.933†	0.2	0.00002	mg/L	0.000623	0.00002 mg/L	0.000623	>999.9%
Cd 228.802†	-3.3	-0.00013	mg/L	0.000119	-0.00013 mg/L	0.000119	89.78%
Co 228.616†	2.5	0.00007	mg/L	0.000091	0.00007 mg/L	0.000091	120.96%
Cr 267.716†	5.5	0.00100	mg/L	0.000851	0.00100 mg/L	0.000851	85.32%
Cu 324.752†	-747.0	-0.00340	mg/L	0.000072	-0.00340 mg/L	0.000072	2.13%
Fe 273.955†	2.4	0.00195	mg/L	0.000965	0.00195 mg/L	0.000965	49.50%
K 766.490†	-44.0	-0.02529	mg/L	0.023902	-0.02529 mg/L	0.023902	94.50%
Mg 279.077†	-5.2	-0.00437	mg/L	0.001219	-0.00437 mg/L	0.001219	27.91%
Mn 257.610†	2.8	0.00009	mg/L	0.000059	0.00009 mg/L	0.000059	67.52%
Mo 202.031†	1.7	0.00010	mg/L	0.000234	0.00010 mg/L	0.000234	242.71%
Na 589.592†	42.2	0.00415	mg/L	0.001319	0.00415 mg/L	0.001319	31.83%
Na 330.237†	11.6	0.4626	mg/L	0.35522	0.4626 mg/L	0.35522	76.79%
Ni 231.604†	1.9	0.00052	mg/L	0.000479	0.00052 mg/L	0.000479	91.65%
Pb 220.353†	3.9	0.00056	mg/L	0.000795	0.00056 mg/L	0.000795	142.13%
Sb 206.836†	3.8	0.00130	mg/L	0.001033	0.00130 mg/L	0.001033	79.66%
Se 196.026†	-4.7	-0.00362	mg/L	0.001437	-0.00362 mg/L	0.001437	39.73%
Si 288.158†	-1.1	-0.00066	mg/L	0.004280	-0.00066 mg/L	0.004280	650.84%
Sn 189.927†	0.3	0.00008	mg/L	0.000713	0.00008 mg/L	0.000713	866.42%
Sr 421.552†	29.9	0.00004	mg/L	0.000036	0.00004 mg/L	0.000036	87.20%
Ti 334.903†	7.6	0.00043	mg/L	0.000522	0.00043 mg/L	0.000522	120.75%
Tl 190.801†	11.3	0.00529	mg/L	0.002203	0.00529 mg/L	0.002203	41.62%
V 292.402†	-10.9	-0.00010	mg/L	0.000062	-0.00010 mg/L	0.000062	62.84%
Zn 206.200†	2.7	0.00080	mg/L	0.000535	0.00080 mg/L	0.000535	66.85%



IEC Date: 11-12-12

Analysis Date: 11-28-12

Analyst: BA

LR Date: 7-30-12

Page: 1 of 6

All corrections made by analyst unless otherwise noted. BA 11-28-12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 0			2994 -10
		2			-11
		3			-12
		4			-13
		↓ 5			↓ -14
		ICV			2988-6
		ICB			
		CBI			
		ICSA			
		IC SAB			
		CCV1			
		CCB1			
		VSW1 MBI TWC			
		B			
		C			
		A-L		S	✓
		A			
		ADUP			✓
		ASPK			✓
		222222			
		APST			✓
		↓ MBISPK			✓
		CCV2			
		CCB2			
		CBI			



IEC Date:

Analysis Date: 11-28-12

Analyst: BA

LR Date:

Page: 2 of 6

All corrections made by analyst unless otherwise noted. BA 11-29-12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		ICSA			
		ICSAB			
		CCV3			
		CCB3			End VS61
		VS80 MBI	TWC		
		B			
		C			
		A-L		S	✓
		A			
		ADWP			✓
		ASPK			✓
		ZZZZZZ			
		APOST			Ca Mg STL ↓
		↓ MBISP	↓		✓ 0.08 mL ICP Spike 2977-9
		CCV4			
		CCB4			
		CBI			
		ICSA			
		ICSAB			
		CCV5			
		CCB5			End VS80
		VS82 MBI	SWC	2	
✓		A			Ca > LB
✓		B			↓
✓		D			↓



IEC Date: _____

Analysis Date: 11-28-12

Analyst: BA

LR Date: _____

Page: 3 of 6

All corrections made by analyst unless otherwise noted. BA 11-29-12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	VS82 ²²²²²²	SWC	10	Cc > LR
	✓	C		2	
	✓	CDUP			
	✓	CSPK			
	✓	222222 CPST			0.08 mL ICP Spk 2977-9
		↓ MBISPK	↓	↓	
		CCV6			
		CCB6			
		VS82 A	SWC	10	
		↓ B		↓	
		↓ D		↓	
	✓	↓ E		↓	Overdiluted
	✓	↓ F		↓	↓
		↓ C-L		50 ✓	
		↓ C		10	
		↓ CDUP		↓	Cc > 20% ad. R. (CAF) ✓
		↓ CSPK		↓	
	✓	↓ 222222 CPST	↓	↓	0.08 mL ICP Spk 2977-9 No Sn added
		CCV7			
		CCB7			
		VS82 G	SWC	10	
	✓	↓ H	↓	↓	Overdiluted
	✓	↓ I	↓	↓	↓
		↓ J	↓	↓	



IEC Date:

Analysis Date: 11-28-12

Analyst: BA

LR Date:

Page: 4 of 6

All corrections made by analyst unless otherwise noted. BA 11-29-12

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	V582 K	SWC	10	overdiluted
	✓	↓ L	↓	↓	↓
	✓	↓ M	↓	↓	
		↓ E	↓	5	
		↓ F	↓	↓	
		VR58 ADUP	↓	2	
		CCV8			
		CCB8			
		V582 H	SWC	5	
		↓ I	↓	↓	
		ZZZZZ CPOST	↓	10	0.05ml ICP Spike 2997-1 0.008ml Std 500 2941-3
		↓ K	↓	5	
		↓ L	↓	2	
		↓ M	↓	↓	
		CCV9			
		CCB9			
		CRI			
		ICSA			
		ICSAB			
		CCV10			
		CCB10			
		V570 MB	TWC		
		V578 MB	↓		
		V574 MB	↓		

End
Pkg

BA 11-29-12

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 11-28-12

<u>ICP-2</u>	Analyst BA 11/29/12	Peer HA 11-29-12	Comment
Logbook:			
Analyst, Date, Method info	✓	/	
Sample ID's	✓	/	
Standard/QC solution ID's recorded	✓	/	
Prep codes	✓	/	
Dilution factors	✓	/	
Crossouts/Corrections/Deletions	✓	/	
Calibration:			
Blank & Standard intensities	✓	/	
Standard deviations	✓	/	
Curve fit	✓	/	
Calibration Verification:			
ICV/CCV	✓	/	
ICB/CCB	✓	/	
Samples:			
RSD's & SD's	✓	/	
Internal Standards	✓	/	
Carry-over	✓	/	
Method QC:			
CRI/CRA	✓	/	
ICSA/ICSAB	✓	/	
Post Spikes/Serial Dilutions	✓	/	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	/	
Matrix Spikes	✓	/	See log
Matrix Duplicates	✓	/	See log
Method Blanks	✓	/	
Data Distribution:			
Requested elements/isotope identified	✓	/	
Correct samples identified for distribution	✓	/	
Raw data match distributed data	✓	/	
Data filename correct	✓	/	
Necessary Analysts Notes and CAF's	✓	/	CAF-VSS2, VRSS

Nebulizer Parameters: Hg ReAlign

Analyte	Back Pressure	Flow
All	212.0 kPa	0.75 L/min

11/28/2012 8:59:30 AM Hg ReAlign... Actual peak offset (nm): 0.004
 Drift (nm): -0.001 Slit adjustment: -5

Analysis Begun

Start Time: 11/28/2012 9:02:56 AM	Plasma On Time: 11/28/2012 8:01:35 AM
Logged In Analyst: Metals	Technique: ICP Continuous
Spectrometer: Optima 7300 DV, S/N 077C8121202	Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\BLKS.sif

Batch ID:

Results Data Set: blanks

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded

Method Name: 7300bcESI2FAST

Method Last Saved: 8/13/2012 7:13:22 AM

IEC File: IEC110912.iec

MSF File:

Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1

Autosampler Location: 1

Sample ID: B1

Date Collected: 11/28/2012 9:03:02 AM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: B1

Analyte	Back Pressure	Flow
All	213.0 kPa	0.75 L/min

=====
Analysis Begun

Start Time: 11/28/2012 9:27:09 AM
Logged In Analyst: Metals
Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/28/2012 8:01:35 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRIS11.sif
Batch ID:
Results Data Set: I2121128
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: Calib Blank 1
Autosampler Location: 1
Date Collected: 11/28/2012 9:27:11 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1
Analyte Back Pressure Flow
All 212.0 kPa 0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2825310.2	21821.36	0.77%	100.0 %
ScR 361.383	377904.4	1359.77	0.36%	100.0 %
Ag 328.068†	-131.3	11.58	8.82%	[0.00] mg/L
Al 308.215†	211.7	2.70	1.28%	[0.00] mg/L
As 188.979†	-15.1	0.98	6.53%	[0.00] mg/L
B 249.677†	26.0	6.11	23.54%	[0.00] mg/L
Ba 233.527†	30.7	3.22	10.48%	[0.00] mg/L
Be 313.042†	832.7	21.60	2.59%	[0.00] mg/L
Ca 317.933†	185.2	5.52	2.98%	[0.00] mg/L
Cd 228.802†	312.1	5.16	1.65%	[0.00] mg/L
Co 228.616†	-97.3	2.34	2.40%	[0.00] mg/L
Cr 267.716†	-140.3	3.93	2.80%	[0.00] mg/L
Cu 324.752†	2317.5	4.22	0.18%	[0.00] mg/L
Fe 273.955†	24.7	1.78	7.18%	[0.00] mg/L
K 766.490†	505.0	49.52	9.80%	[0.00] mg/L
Mg 279.077†	84.5	2.03	2.41%	[0.00] mg/L
Mn 257.610†	197.2	2.16	1.09%	[0.00] mg/L
Mo 202.031†	76.9	3.74	4.87%	[0.00] mg/L
Na 589.592†	-536.7	41.26	7.69%	[0.00] mg/L
Na 330.237†	-232.9	5.66	2.43%	[0.00] mg/L
Ni 231.604†	-10.9	2.15	19.65%	[0.00] mg/L
Pb 220.353†	65.0	7.87	12.12%	[0.00] mg/L
Sb 206.836†	84.3	6.74	8.00%	[0.00] mg/L
Se 196.026†	-57.3	3.67	6.40%	[0.00] mg/L
Si 288.158†	57.2	1.38	2.41%	[0.00] mg/L
Sn 189.927†	-4.1	5.61	137.00%	[0.00] mg/L
Sr 421.552†	424.3	9.13	2.15%	[0.00] mg/L
Ti 334.903†	-77.9	20.34	26.11%	[0.00] mg/L
Tl 190.801†	-46.9	2.01	4.29%	[0.00] mg/L
V 292.402†	122.7	10.14	8.26%	[0.00] mg/L
Zn 206.200†	15.4	2.21	14.35%	[0.00] mg/L

=====
Sequence No.: 2
Sample ID: STD2
Autosampler Location: 2
Date Collected: 11/28/2012 9:31:27 AM
Data Type: Original

Nebulizer Parameters: STD2
Analyte Back Pressure Flow
All 214.0 kPa 0.75 L/min

Mean Data: STD2

Mean Corrected Calib

Analyte	Intensity	Std.Dev.	RSD	Conc. Units
ScA 357.253	2861275.3	32566.49	1.14%	101.3 %
ScR 361.383	382498.5	1418.56	0.37%	101.2 %
Ba 233.527†	53954.6	300.90	0.56%	[10] mg/L
Cd 228.802†	317507.8	4080.10	1.29%	[10] mg/L
Co 228.616†	439792.2	4355.68	0.99%	[10] mg/L
Cr 267.716†	77117.6	307.11	0.40%	[10] mg/L
Cu 324.752†	2791870.8	35523.09	1.27%	[10] mg/L
Mn 257.610†	454791.9	975.24	0.21%	[10] mg/L
V 292.402†	1313870.2	15683.69	1.19%	[10] mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 11/28/2012 9:33:15 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	212.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2795167.8	9136.83	0.33%	98.93 %
ScR 361.383	374331.1	720.72	0.19%	99.05 %
Ag 328.068†	189861.9	714.81	0.38%	[1.0] mg/L
As 188.979†	20922.0	107.77	0.52%	[10] mg/L
B 249.677†	87042.4	346.38	0.40%	[10] mg/L
Be 313.042†	3591019.1	34836.79	0.97%	[5.0] mg/L
Na 589.592†	654866.7	2871.96	0.44%	[50] mg/L
Ni 231.604†	49864.8	160.71	0.32%	[10] mg/L
Pb 220.353†	90979.8	478.91	0.53%	[10] mg/L
Se 196.026†	17020.2	75.41	0.44%	[10] mg/L
Sr 421.552†	4809168.9	31659.73	0.66%	[5] mg/L
Tl 190.801†	27602.3	149.30	0.54%	[10] mg/L
Zn 206.200†	46802.7	141.97	0.30%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 11/28/2012 9:35:49 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	212.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2842683.1	39945.76	1.41%	100.6 %
ScR 361.383	375100.8	2348.88	0.63%	99.26 %
Mo 202.031†	222783.0	3348.75	1.50%	[10] mg/L
Sb 206.836†	36650.7	547.94	1.50%	[10] mg/L
Si 288.158†	23715.8	270.28	1.14%	[10] mg/L
Sn 189.927†	43468.0	572.73	1.32%	[10] mg/L
Ti 334.903†	243228.5	792.23	0.33%	[10] mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 11/28/2012 9:38:05 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2718218.5	11674.10	0.43%	96.21	%
ScR 361.383	380376.3	91.28	0.02%	100.7	%
Al 308.215†	54913.1	171.36	0.31%	[30]	mg/L
Ca 317.933†	496646.8	1713.50	0.35%	[30]	mg/L
Fe 273.955†	168352.1	1049.91	0.62%	[100]	mg/L
K 766.490†	231471.0	555.76	0.24%	[100]	mg/L
Mg 279.077†	47481.5	119.55	0.25%	[30]	mg/L
Na 330.237†	3323.7	17.10	0.51%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	189900	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1830	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	2092	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	8704	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5395	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	718200	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	16550	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	31750	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	43980	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7712	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	279200	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1684	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2315	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1583	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	45480	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	22280	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	13100	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	33.24	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	4986	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	9098	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	3665	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1702	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	2372	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	4347	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	961800	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	24320	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2760	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	131400	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	4680	0.00000	1.000000	

=====
Analysis Begun

Start Time: 11/28/2012 9:41:03 AM
Logged In Analyst: Metals
Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/28/2012 8:01:35 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRIS1.sif
Batch ID:
Results Data Set: I2121128
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: CV
Analyst: BA
Dilution: 1.000000X
User canceled analysis.

Autosampler Location: 7
Date Collected: 11/28/2012 9:41:04 AM
Data Type: Original

=====
Analysis Begun

Start Time: 11/28/2012 9:41:31 AM
Logged In Analyst: Metals
Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/28/2012 8:01:35 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRIS1.sif
Batch ID:
Results Data Set: I2121128
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: CV
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 7
Date Collected: 11/28/2012 9:41:41 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2833935.8	100.3 %	0.80			0.79%
ScR 361.383	374164.9	99.01 %	0.425			0.43%
Ag 328.068†	196205.0	1.034 mg/L	0.0032	1.034 mg/L	0.0032	0.31%
Al 308.215†	3777.1	2.028 mg/L	0.0256	2.028 mg/L	0.0256	1.26%
As 188.979†	4166.7	2.016 mg/L	0.0093	2.016 mg/L	0.0093	0.46%
B 249.677†	8842.7	1.015 mg/L	0.0095	1.015 mg/L	0.0095	0.94%
Ba 233.527†	5496.3	1.018 mg/L	0.0082	1.018 mg/L	0.0082	0.81%
Be 313.042†	715586.2	0.9961 mg/L	0.00767	0.9961 mg/L	0.00767	0.77%
Ca 317.933†	34252.5	2.069 mg/L	0.0179	2.069 mg/L	0.0179	0.87%
Cd 228.802†	32646.8	1.016 mg/L	0.0058	1.016 mg/L	0.0058	0.57%
Co 228.616†	43512.6	0.9873 mg/L	0.00053	0.9873 mg/L	0.00053	0.05%
Cr 267.716†	7761.2	1.006 mg/L	0.0070	1.006 mg/L	0.0070	0.70%
Cu 324.752†	284865.4	1.020 mg/L	0.0034	1.020 mg/L	0.0034	0.33%
Fe 273.955†	3488.1	2.065 mg/L	0.0127	2.065 mg/L	0.0127	0.61%
K 766.490†	46817.7	20.23 mg/L	0.209	20.23 mg/L	0.209	1.04%
Mg 279.077†	3235.0	2.051 mg/L	0.0081	2.051 mg/L	0.0081	0.39%
Mn 257.610†	45965.5	1.011 mg/L	0.0064	1.011 mg/L	0.0064	0.63%
Mo 202.031†	23189.3	1.041 mg/L	0.0073	1.041 mg/L	0.0073	0.70%
Na 589.592†	673845.6	51.45 mg/L	0.447	51.45 mg/L	0.447	0.87%
Na 330.237†	1752.4	52.61 mg/L	0.755	52.61 mg/L	0.755	1.44%
Ni 231.604†	5047.8	1.013 mg/L	0.0052	1.013 mg/L	0.0052	0.52%
Pb 220.353†	18810.6	2.069 mg/L	0.0131	2.069 mg/L	0.0131	0.63%
Sb 206.836†	7838.3	2.138 mg/L	0.0138	2.138 mg/L	0.0138	0.64%
Se 196.026†	3371.8	1.980 mg/L	0.0104	1.980 mg/L	0.0104	0.53%
Si 288.158†	4951.7	2.087 mg/L	0.0168	2.087 mg/L	0.0168	0.80%

Sn 189.927†	4466.9	1.029 mg/L	0.0065	1.029 mg/L	0.0065	0.63%
Sr 421.552†	967201.5	1.006 mg/L	0.0081	1.006 mg/L	0.0081	0.81%
Ti 334.903†	24981.8	1.026 mg/L	0.0078	1.026 mg/L	0.0078	0.76%
Tl 190.801†	5519.1	1.991 mg/L	0.0120	1.991 mg/L	0.0120	0.60%
V 292.402†	133561.3	1.021 mg/L	0.0028	1.021 mg/L	0.0028	0.27%
Zn 206.200†	4908.5	1.049 mg/L	0.0079	1.049 mg/L	0.0079	0.75%

Sequence No.: 2
 Sample ID: ICB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 9:45:05 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2852358.2	101.0	%	0.42			0.42%
ScR 361.383	381000.8	100.8	%	0.32			0.31%
Ag 328.068†	24.9	0.00013	mg/L	0.000081	0.00013 mg/L	0.000081	61.80%
Al 308.215†	7.2	0.00393	mg/L	0.000710	0.00393 mg/L	0.000710	18.08%
As 188.979†	1.6	0.00076	mg/L	0.001415	0.00076 mg/L	0.001415	186.51%
B 249.677†	21.9	0.00252	mg/L	0.000593	0.00252 mg/L	0.000593	23.53%
Ba 233.527†	-1.2	-0.00022	mg/L	0.000857	-0.00022 mg/L	0.000857	395.12%
Be 313.042†	27.4	0.00004	mg/L	0.000014	0.00004 mg/L	0.000014	35.94%
Ca 317.933†	6.6	0.00040	mg/L	0.000423	0.00040 mg/L	0.000423	105.41%
Cd 228.802†	2.1	0.00006	mg/L	0.000046	0.00006 mg/L	0.000046	75.45%
Co 228.616†	-5.2	-0.00012	mg/L	0.000104	-0.00012 mg/L	0.000104	88.27%
Cr 267.716†	4.5	0.00058	mg/L	0.000708	0.00058 mg/L	0.000708	121.59%
Cu 324.752†	42.8	0.00015	mg/L	0.000038	0.00015 mg/L	0.000038	25.05%
Fe 273.955†	1.3	0.00074	mg/L	0.001452	0.00074 mg/L	0.001452	195.61%
K 766.490†	10.0	0.00430	mg/L	0.017286	0.00430 mg/L	0.017286	401.99%
Mg 279.077†	-0.8	-0.00048	mg/L	0.002358	-0.00048 mg/L	0.002358	491.10%
Mn 257.610†	6.8	0.00015	mg/L	0.000116	0.00015 mg/L	0.000116	76.90%
Mo 202.031†	34.5	0.00155	mg/L	0.000103	0.00155 mg/L	0.000103	6.67%
Na 589.592†	121.4	0.00927	mg/L	0.002922	0.00927 mg/L	0.002922	31.53%
Na 330.237†	13.0	0.3923	mg/L	0.25524	0.3923 mg/L	0.25524	65.05%
Ni 231.604†	-5.1	-0.00103	mg/L	0.000448	-0.00103 mg/L	0.000448	43.56%
Pb 220.353†	-4.5	-0.00050	mg/L	0.000679	-0.00050 mg/L	0.000679	136.81%
Sb 206.836†	10.2	0.00278	mg/L	0.000391	0.00278 mg/L	0.000391	14.03%
Se 196.026†	10.6	0.00625	mg/L	0.001733	0.00625 mg/L	0.001733	27.74%
Si 288.158†	2.9	0.00122	mg/L	0.001506	0.00122 mg/L	0.001506	123.05%
Sn 189.927†	-0.6	-0.00014	mg/L	0.000175	-0.00014 mg/L	0.000175	121.24%
Sr 421.552†	80.5	0.00008	mg/L	0.000032	0.00008 mg/L	0.000032	37.79%
Ti 334.903†	14.5	0.00059	mg/L	0.000484	0.00059 mg/L	0.000484	81.60%
Tl 190.801†	2.3	0.00085	mg/L	0.001247	0.00085 mg/L	0.001247	147.18%
V 292.402†	30.9	0.00024	mg/L	0.000126	0.00024 mg/L	0.000126	52.85%
Zn 206.200†	0.1	0.00002	mg/L	0.000350	0.00002 mg/L	0.000350	>999.9%

Sequence No.: 3
 Sample ID: CRI
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 301
 Date Collected: 11/28/2012 9:49:21 AM
 Data Type: Original

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
 All 212.0 kPa 0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2828356.7	100.1 %	0.16			0.16%
ScR 361.383	376521.5	99.63 %	0.515			0.52%
Ag 328.068†	579.9	0.00306 mg/L	0.000167	0.00306 mg/L	0.000167	5.48%
Al 308.215†	106.6	0.05811 mg/L	0.008758	0.05811 mg/L	0.008758	15.07%
As 188.979†	99.9	0.04788 mg/L	0.001465	0.04788 mg/L	0.001465	3.06%
B 249.677†	182.7	0.02099 mg/L	0.000634	0.02099 mg/L	0.000634	3.02%
Ba 233.527†	16.9	0.00311 mg/L	0.000689	0.00311 mg/L	0.000689	22.12%
Be 313.042†	736.5	0.00102 mg/L	0.000026	0.00102 mg/L	0.000026	2.50%
Ca 317.933†	798.9	0.04826 mg/L	0.000457	0.04826 mg/L	0.000457	0.95%
Cd 228.802†	80.1	0.00222 mg/L	0.000073	0.00222 mg/L	0.000073	3.28%
Co 228.616†	150.2	0.00340 mg/L	0.000069	0.00340 mg/L	0.000069	2.02%
Cr 267.716†	35.9	0.00465 mg/L	0.000942	0.00465 mg/L	0.000942	20.24%
Cu 324.752†	566.4	0.00203 mg/L	0.000063	0.00203 mg/L	0.000063	3.09%
Fe 273.955†	85.0	0.05045 mg/L	0.001162	0.05045 mg/L	0.001162	2.30%
K 766.490†	1131.6	0.4889 mg/L	0.00834	0.4889 mg/L	0.00834	1.71%
Mg 279.077†	84.1	0.05314 mg/L	0.004924	0.05314 mg/L	0.004924	9.27%
Mn 257.610†	50.3	0.00111 mg/L	0.000091	0.00111 mg/L	0.000091	8.17%
Mo 202.031†	122.8	0.00551 mg/L	0.000029	0.00551 mg/L	0.000029	0.53%
Na 589.582†	6362.8	0.4858 mg/L	0.00402	0.4858 mg/L	0.00402	0.83%
Na 330.237†	21.2	0.6373 mg/L	0.43232	0.6373 mg/L	0.43232	67.84%
Ni 231.604†	47.4	0.00952 mg/L	0.000576	0.00952 mg/L	0.000576	6.05%
Pb 220.353†	189.9	0.02090 mg/L	0.000162	0.02090 mg/L	0.000162	0.78%
Sb 206.836†	197.2	0.05384 mg/L	0.001421	0.05384 mg/L	0.001421	2.64%
Se 196.026†	89.3	0.05248 mg/L	0.002870	0.05248 mg/L	0.002870	5.47%
Si 288.158†	156.2	0.06582 mg/L	0.004664	0.06582 mg/L	0.004664	7.09%
Sn 189.927†	44.6	0.01029 mg/L	0.000323	0.01029 mg/L	0.000323	3.14%
Sr 421.552†	1011.6	0.00105 mg/L	0.000039	0.00105 mg/L	0.000039	3.72%
Ti 334.903†	128.3	0.00527 mg/L	0.000298	0.00527 mg/L	0.000298	5.65%
Tl 190.801†	132.2	0.04786 mg/L	0.001251	0.04786 mg/L	0.001251	2.61%
V 292.402†	426.7	0.00327 mg/L	0.000124	0.00327 mg/L	0.000124	3.79%
Zn 206.200†	46.0	0.00982 mg/L	0.000290	0.00982 mg/L	0.000290	2.95%

Sequence No.: 4
 Sample ID: ICSA
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 302
 Date Collected: 11/28/2012 9:53:38 AM
 Data Type: Original

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2834377.4	100.3	%	0.05			0.05%
ScR 361.383	371789.2	98.38	%	0.315			0.32%
Ag 328.068†	-253.0	-0.00133	mg/L	0.000100	-0.00133 mg/L	0.000100	7.52%
Al 308.215†	367207.6	200.6	mg/L	0.42	200.6 mg/L	0.42	0.21%
As 188.979†	36.1	0.01157	mg/L	0.000890	0.01157 mg/L	0.000890	7.69%
B 249.677†	-43.9	-0.00505	mg/L	0.001330	-0.00505 mg/L	0.001330	26.35%
Ba 233.527†	160.7	-0.00265	mg/L	0.000610	-0.00265 mg/L	0.000610	23.02%
Be 313.042†	90.0	0.00012	mg/L	0.000019	0.00012 mg/L	0.000019	15.56%
Ca 317.933†	1665861.0	100.6	mg/L	0.46	100.6 mg/L	0.46	0.46%
Cd 228.802†	64.8	0.00004	mg/L	0.000282	0.00004 mg/L	0.000282	730.36%
Co 228.616†	67.7	-0.00105	mg/L	0.000088	-0.00105 mg/L	0.000088	8.39%
Cr 267.716†	1.7	-0.00155	mg/L	0.001244	-0.00155 mg/L	0.001244	80.08%
Cu 324.752†	-2223.6	-0.00005	mg/L	0.000067	-0.00005 mg/L	0.000067	138.15%
Fe 273.955†	333549.6	198.1	mg/L	0.73	198.1 mg/L	0.73	0.37%
K 766.490†	23.5	0.01014	mg/L	0.011461	0.01014 mg/L	0.011461	113.00%
Mg 279.077†	158242.3	99.88	mg/L	0.616	99.88 mg/L	0.616	0.62%
Mn 257.610†	68.2	0.00147	mg/L	0.000201	0.00147 mg/L	0.000201	13.69%
Mo 202.031†	74.2	0.00224	mg/L	0.000354	0.00224 mg/L	0.000354	15.80%
Na 589.592†	173.7	0.01327	mg/L	0.001466	0.01327 mg/L	0.001466	11.05%
Na 330.237†	0.1	0.00413	mg/L	0.149307	0.00413 mg/L	0.149307	>999.9%
Ni 231.604†	-13.4	-0.00266	mg/L	0.000477	-0.00266 mg/L	0.000477	17.89%
Pb 220.353†	-406.7	-0.00485	mg/L	0.000595	-0.00485 mg/L	0.000595	12.29%
Sb 206.836†	45.4	0.01228	mg/L	0.000465	0.01228 mg/L	0.000465	3.79%
Se 196.026†	24.5	0.01437	mg/L	0.004574	0.01437 mg/L	0.004574	31.84%
Si 288.158†	-32.8	-0.00175	mg/L	0.002420	-0.00175 mg/L	0.002420	138.52%
Sn 189.927†	-78.1	-0.00552	mg/L	0.001505	-0.00552 mg/L	0.001505	27.28%
Sr 421.552†	3970.0	0.00413	mg/L Cont,	0.000042	0.00413 mg/L	0.000042	1.01%
Ti 334.903†	155.7	0.00160	mg/L	0.000330	0.00160 mg/L	0.000330	20.65%
Tl 190.801†	-64.7	-0.00230	mg/L	0.001134	-0.00230 mg/L	0.001134	49.25%
V 292.402†	1554.3	0.00491	mg/L	0.000043	0.00491 mg/L	0.000043	0.88%
Zn 206.200†	12.2	0.00260	mg/L	0.000303	0.00260 mg/L	0.000303	11.65%

Sequence No.: 5
 Sample ID: ICSAB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 303
 Date Collected: 11/28/2012 9:57:41 AM
 Data Type: Original

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 212.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2821712.8	99.87 %	0.407			0.41%
ScR 361.383	372361.1	98.53 %	0.818			0.83%
Ag 328.068†	198933.4	1.048 mg/L	0.0093	1.048 mg/L	0.0093	0.89%
Al 308.215†	365379.3	199.6 mg/L	2.28	199.6 mg/L	2.28	1.14%
As 188.979†	2126.5	1.010 mg/L	0.0021	1.010 mg/L	0.0021	0.20%
B 249.677†	-15.1	-0.00367 mg/L	0.000749	-0.00367 mg/L	0.000749	20.43%
Ba 233.527†	5630.3	1.011 mg/L	0.0126	1.011 mg/L	0.0126	1.24%
Be 313.042†	718554.7	1.000 mg/L	0.0101	1.000 mg/L	0.0101	1.01%
Ca 317.933†	1668992.7	100.8 mg/L	1.27	100.8 mg/L	1.27	1.26%
Cd 228.802†	32302.4	1.010 mg/L	0.0093	1.010 mg/L	0.0093	0.92%
Co 228.616†	41432.9	0.9393 mg/L	0.00801	0.9393 mg/L	0.00801	0.85%
Cr 267.716†	7805.7	1.010 mg/L	0.0086	1.010 mg/L	0.0086	0.85%
Cu 324.752†	285322.7	1.030 mg/L	0.0083	1.030 mg/L	0.0083	0.81%
Fe 273.955†	332478.4	197.5 mg/L	2.21	197.5 mg/L	2.21	1.12%
K 766.490†	-100.4	-0.04337 mg/L	0.021589	-0.04337 mg/L	0.021589	49.77%
Mg 279.077†	158769.0	100.2 mg/L	1.36	100.2 mg/L	1.36	1.36%
Mn 257.610†	43432.4	0.9552 mg/L	0.00936	0.9552 mg/L	0.00936	0.98%
Mo 202.031†	66.1	0.00182 mg/L	0.000106	0.00182 mg/L	0.000106	5.79%
Na 589.592†	392.5	0.02997 mg/L	0.001717	0.02997 mg/L	0.001717	5.73%
Na 330.237†	18.3	0.2289 mg/L	0.13803	0.2289 mg/L	0.13803	60.30%
Ni 231.604†	4894.4	0.9817 mg/L	0.01186	0.9817 mg/L	0.01186	1.21%
Pb 220.353†	8626.9	0.9884 mg/L	0.00192	0.9884 mg/L	0.00192	0.19%
Sb 206.836†	3816.8	1.031 mg/L	0.0024	1.031 mg/L	0.0024	0.23%
Se 196.026†	1706.4	1.002 mg/L	0.0025	1.002 mg/L	0.0025	0.25%
Si 288.158†	-35.0	0.00102 mg/L	0.003560	0.00102 mg/L	0.003560	349.74%
Sn 189.927†	-86.0	-0.00680 mg/L	0.001681	-0.00680 mg/L	0.001681	24.72%
Sr 421.552†	3939.9	0.00410 mg/L	0.000047	0.00410 mg/L	0.000047	1.16%
Ti 334.903†	149.8	0.00114 mg/L	0.000064	0.00114 mg/L	0.000064	5.61%
Tl 190.801†	2522.3	0.9258 mg/L	0.00143	0.9258 mg/L	0.00143	0.15%
V 292.402†	131421.2	0.9978 mg/L	0.00957	0.9978 mg/L	0.00957	0.96%
Zn 206.200†	4582.4	0.9791 mg/L	0.01038	0.9791 mg/L	0.01038	1.06%

Sequence No.: 6
 Sample ID: CV
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 10:02:47 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2871282.6	101.6 %		0.16			0.16%
ScR 361.383	376004.0	99.50 %		0.422			0.42%
Ag 328.068†	196388.3	1.035 mg/L		0.0008	1.035 mg/L	0.0008	0.07%
Al 308.215†	3820.7	2.052 mg/L		0.0040	2.052 mg/L	0.0040	0.19%
As 188.979†	4166.5	2.016 mg/L		0.0058	2.016 mg/L	0.0058	0.29%
B 249.677†	8844.4	1.015 mg/L		0.0033	1.015 mg/L	0.0033	0.33%
Ba 233.527†	5556.2	1.029 mg/L		0.0078	1.029 mg/L	0.0078	0.76%
Be 313.042†	723657.1	1.007 mg/L		0.0056	1.007 mg/L	0.0056	0.56%
Ca 317.933†	34754.5	2.099 mg/L		0.0038	2.099 mg/L	0.0038	0.18%
Cd 228.802†	32822.9	1.021 mg/L		0.0012	1.021 mg/L	0.0012	0.12%
Co 228.616†	43962.9	0.9975 mg/L		0.00169	0.9975 mg/L	0.00169	0.17%
Cr 267.716†	7835.1	1.015 mg/L		0.0035	1.015 mg/L	0.0035	0.35%
Cu 324.752†	285419.4	1.022 mg/L		0.0000	1.022 mg/L	0.0000	0.00%
Fe 273.955†	3525.5	2.087 mg/L		0.0008	2.087 mg/L	0.0008	0.04%
K 766.490†	47021.0	20.31 mg/L		0.096	20.31 mg/L	0.096	0.47%
Mg 279.077†	3278.8	2.079 mg/L		0.0150	2.079 mg/L	0.0150	0.72%
Mn 257.610†	46200.3	1.016 mg/L		0.0036	1.016 mg/L	0.0036	0.35%
Mo 202.031†	23134.3	1.038 mg/L		0.0023	1.038 mg/L	0.0023	0.22%
Na 589.592†	674546.7	51.50 mg/L		0.225	51.50 mg/L	0.225	0.44%
Na 330.237†	1742.5	52.31 mg/L		0.413	52.31 mg/L	0.413	0.79%
Ni 231.604†	5112.5	1.026 mg/L		0.0021	1.026 mg/L	0.0021	0.21%
Pb 220.353†	18832.8	2.071 mg/L		0.0030	2.071 mg/L	0.0030	0.15%
Sb 206.836†	7835.8	2.137 mg/L		0.0029	2.137 mg/L	0.0029	0.14%
Se 196.026†	3382.7	1.986 mg/L		0.0059	1.986 mg/L	0.0059	0.30%
Si 288.158†	4977.9	2.098 mg/L		0.0083	2.098 mg/L	0.0083	0.40%
Sn 189.927†	4478.4	1.032 mg/L		0.0028	1.032 mg/L	0.0028	0.27%
Sr 421.552†	969794.2	1.008 mg/L		0.0034	1.008 mg/L	0.0034	0.34%
Ti 334.903†	25147.4	1.033 mg/L		0.0049	1.033 mg/L	0.0049	0.47%
Tl 190.801†	5516.2	1.990 mg/L		0.0047	1.990 mg/L	0.0047	0.24%
V 292.402†	134238.2	1.026 mg/L		0.0005	1.026 mg/L	0.0005	0.05%
Zn 206.200†	4986.6	1.065 mg/L		0.0064	1.065 mg/L	0.0064	0.60%

Sequence No.: 7
Sample ID: CB
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 1
Date Collected: 11/28/2012 10:07:08 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2855234.8	101.1	%	0.37				0.37%
ScR 361.383	379058.0	100.3	%	0.79				0.78%
Ag 328.068†	-26.6	-0.00014	mg/L	0.000091	-0.00014	mg/L	0.000091	65.37%
Al 308.215†	13.9	0.00758	mg/L	0.003041	0.00758	mg/L	0.003041	40.13%
As 188.979†	-2.5	-0.00121	mg/L	0.001131	-0.00121	mg/L	0.001131	93.60%
B 249.677†	15.9	0.00183	mg/L	0.000474	0.00183	mg/L	0.000474	25.90%
Ba 233.527†	2.5	0.00047	mg/L	0.000690	0.00047	mg/L	0.000690	146.27%
Be 313.042†	63.8	0.00009	mg/L	0.000036	0.00009	mg/L	0.000036	40.68%
Ca 317.933†	21.3	0.00129	mg/L	0.000771	0.00129	mg/L	0.000771	60.01%
Cd 228.802†	8.7	0.00028	mg/L	0.000066	0.00028	mg/L	0.000066	23.51%
Co 228.616†	-2.5	-0.00006	mg/L	0.000165	-0.00006	mg/L	0.000165	294.12%
Cr 267.716†	-3.2	-0.00042	mg/L	0.000369	-0.00042	mg/L	0.000369	87.97%
Cu 324.752†	63.1	0.00023	mg/L	0.000092	0.00023	mg/L	0.000092	40.84%
Fe 273.955†	2.8	0.00166	mg/L	0.002941	0.00166	mg/L	0.002941	177.44%
K 766.490†	-9.2	-0.00399	mg/L	0.018954	-0.00399	mg/L	0.018954	475.53%
Mg 279.077†	8.1	0.00515	mg/L	0.007602	0.00515	mg/L	0.007602	147.67%
Mn 257.610†	11.2	0.00025	mg/L	0.000180	0.00025	mg/L	0.000180	72.86%
Mo 202.031†	15.1	0.00068	mg/L	0.000384	0.00068	mg/L	0.000384	56.56%
Na 589.592†	68.0	-0.00519	mg/L	0.003830	0.00519	mg/L	0.003830	73.74%
Na 330.237†	3.8	0.1155	mg/L	0.19854	0.1155	mg/L	0.19854	171.96%
Ni 231.604†	0.2	0.00005	mg/L	0.000523	0.00005	mg/L	0.000523	>999.9%
Pb 220.353†	1.4	0.00016	mg/L	0.000328	0.00016	mg/L	0.000328	208.40%
Sb 206.836†	12.1	0.00331	mg/L	0.001235	0.00331	mg/L	0.001235	37.31%
Se 196.026†	1.4	0.00085	mg/L	0.000682	0.00085	mg/L	0.000682	80.11%
Si 288.158†	4.4	0.00184	mg/L	0.002009	0.00184	mg/L	0.002009	108.93%
Sn 189.927†	1.2	0.00028	mg/L	0.000965	0.00028	mg/L	0.000965	339.75%
Sr 421.552†	49.8	0.00005	mg/L	0.000013	0.00005	mg/L	0.000013	25.95%
Ti 334.903†	-15.2	-0.00063	mg/L	0.000835	-0.00063	mg/L	0.000835	133.05%
Tl 190.801†	0.7	0.00025	mg/L	0.001706	0.00025	mg/L	0.001706	686.12%
V 292.402†	8.1	0.00006	mg/L	0.000100	0.00006	mg/L	0.000100	164.46%
Zn 206.200†	2.0	0.00043	mg/L	0.000129	0.00043	mg/L	0.000129	29.90%

Sequence No.: 8
 Sample ID: VS61 MB1 TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 304
 Date Collected: 11/28/2012 10:11:24 AM
 Data Type: Original

Nebulizer Parameters: VS61 MB1 TWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS61 MB1 TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2864663.6	101.4 %		0.41			0.41%
ScR 361.383	379544.2	100.4 %		0.26			0.26%
Ag 328.068†	9.7	0.00005 mg/L		0.000088	0.00005 mg/L	0.000088	171.18%
Al 308.215†	8.1	0.00439 mg/L		0.003139	0.00439 mg/L	0.003139	71.49%
As 188.979†	2.3	0.00108 mg/L		0.000989	0.00108 mg/L	0.000989	91.32%
B 249.677†	10.9	0.00126 mg/L		0.000492	0.00126 mg/L	0.000492	39.16%
Ba 233.527†	-0.6	-0.00012 mg/L		0.000343	-0.00012 mg/L	0.000343	295.74%
Be 313.042†	41.2	0.00006 mg/L		0.000021	0.00006 mg/L	0.000021	36.48%
Ca 317.933†	74.6	0.00451 mg/L		0.000164	0.00451 mg/L	0.000164	3.64%
Cd 228.802†	1.0	0.00002 mg/L		0.000132	0.00002 mg/L	0.000132	574.81%
Co 228.616†	-0.7	-0.00002 mg/L		0.000165	-0.00002 mg/L	0.000165	>999.9%
Cr 267.716†	-1.7	-0.00021 mg/L		0.000338	-0.00021 mg/L	0.000338	157.17%
Cu 324.752†	107.0	0.00038 mg/L		0.000133	0.00038 mg/L	0.000133	34.67%
Fe 273.955†	3.6	0.00213 mg/L		0.000523	0.00213 mg/L	0.000523	24.51%
K 766.490†	17.1	0.00740 mg/L		0.004626	0.00740 mg/L	0.004626	62.51%
Mg 279.077†	-1.2	-0.00078 mg/L		0.003205	-0.00078 mg/L	0.003205	408.91%
Mn 257.610†	13.1	0.00029 mg/L		0.000082	0.00029 mg/L	0.000082	28.36%
Mo 202.031†	9.0	0.00040 mg/L		0.000101	0.00040 mg/L	0.000101	25.06%
Na 589.592†	77.3	0.00590 mg/L		0.004453	0.00590 mg/L	0.004453	75.44%
Na 330.237†	6.1	0.1839 mg/L		0.13101	0.1839 mg/L	0.13101	71.23%
Ni 231.604†	-0.7	-0.00015 mg/L		0.001010	-0.00015 mg/L	0.001010	677.04%
Pb 220.353†	6.8	0.00075 mg/L		0.000418	0.00075 mg/L	0.000418	55.94%
Sb 206.836†	0.3	0.00007 mg/L		0.002186	0.00007 mg/L	0.002186	>999.9%
Se 196.026†	3.8	0.00224 mg/L		0.003428	0.00224 mg/L	0.003428	153.21%
Si 288.158†	6.1	0.00257 mg/L		0.002244	0.00257 mg/L	0.002244	87.36%
Sn 189.927†	-2.2	-0.00051 mg/L		0.000566	-0.00051 mg/L	0.000566	110.22%
Sr 421.552†	70.0	0.00007 mg/L		0.000011	0.00007 mg/L	0.000011	14.52%
Ti 334.903†	-14.3	-0.00059 mg/L		0.000659	-0.00059 mg/L	0.000659	111.78%
Tl 190.801†	-0.9	-0.00034 mg/L		0.000625	-0.00034 mg/L	0.000625	184.07%
V 292.402†	20.7	0.00016 mg/L		0.000080	0.00016 mg/L	0.000080	50.75%
Zn 206.200†	5.8	0.00123 mg/L		0.000542	0.00123 mg/L	0.000542	43.91%

Sequence No.: 9
 Sample ID: VS61 B TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 305
 Date Collected: 11/28/2012 10:15:42 AM
 Data Type: Original

Nebulizer Parameters: VS61 B TWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS61 B TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2816967.2	99.70	%	0.474			0.47%
ScR 361.383	373776.7	98.91	%	0.551			0.56%
Ag 328.068†	-63.0	-0.00033	mg/L	0.000088	-0.00033 mg/L	0.000088	26.59%
Al 308.215†	8.1	0.00433	mg/L	0.004337	0.00433 mg/L	0.004337	100.24%
As 188.979†	49.7	0.02067	mg/L	0.000700	0.02067 mg/L	0.000700	3.38%
B 249.677†	6134.2	0.7047	mg/L	0.00718	0.7047 mg/L	0.00718	1.02%
Ba 233.527†	1671.9	0.3095	mg/L	0.00420	0.3095 mg/L	0.00420	1.36%
Be 313.042†	29.1	0.00004	mg/L	0.000017	0.00004 mg/L	0.000017	43.16%
Ca 317.933†	906872.5	54.78	mg/L	0.233	54.78 mg/L	0.233	0.42%
Cd 228.802†	16.7	0.00035	mg/L	0.000048	0.00035 mg/L	0.000048	13.85%
Co 228.616†	10.3	0.00018	mg/L	0.000161	0.00018 mg/L	0.000161	90.89%
Cr 267.716†	21.8	-0.00002	mg/L	0.001610	-0.00002 mg/L	0.001610	>999.9%
Cu 324.752†	215.5	0.00062	mg/L	0.000143	0.00062 mg/L	0.000143	22.94%
Fe 273.955†	3433.2	2.039	mg/L	0.0209	2.039 mg/L	0.0209	1.03%
K 766.490†	4716.9	2.038	mg/L	0.0182	2.038 mg/L	0.0182	0.89%
Mg 279.077†	44215.7	27.94	mg/L	0.215	27.94 mg/L	0.215	0.77%
Mn 257.610†	5815.2	0.1277	mg/L	0.00115	0.1277 mg/L	0.00115	0.90%
Mo 202.031†	137.4	0.00558	mg/L	0.000455	0.00558 mg/L	0.000455	8.16%
Na 589.592†	374799.5	28.62	mg/L	0.072	28.62 mg/L	0.072	0.25%
Na 330.237†	973.2	29.28	mg/L	0.329	29.28 mg/L	0.329	1.12%
Ni 231.604†	4.3	0.00087	mg/L	0.001184	0.00087 mg/L	0.001184	136.62%
Pb 220.353†	-21.3	-0.00242	mg/L	0.000847	-0.00242 mg/L	0.000847	34.99%
Sb 206.836†	3.2	0.00070	mg/L	0.000558	0.00070 mg/L	0.000558	79.57%
Se 196.026†	-13.1	-0.00768	mg/L	0.000956	-0.00768 mg/L	0.000956	12.45%
Si 288.158†	19556.5	8.250	mg/L	0.0508	8.250 mg/L	0.0508	0.62%
Sn 189.927†	-68.6	-0.00901	mg/L	0.001208	-0.00901 mg/L	0.001208	13.42%
Sr 421.552†	1044128.2	1.086	mg/L	0.0044	1.086 mg/L	0.0044	0.40%
Ti 334.903†	91.3	0.00113	mg/L	0.000227	0.00113 mg/L	0.000227	20.00%
Tl 190.801†	7.1	0.00280	mg/L	0.000650	0.00280 mg/L	0.000650	23.24%
V 292.402†	46.9	0.00032	mg/L	0.000121	0.00032 mg/L	0.000121	37.87%
Zn 206.200†	-0.6	-0.00013	mg/L	0.000544	-0.00013 mg/L	0.000544	421.62%

Sequence No.: 10
 Sample ID: VS61 C TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 306
 Date Collected: 11/28/2012 10:19:59 AM
 Data Type: Original

Nebulizer Parameters: VS61 C TWC

Analyte Back Pressure Flow
 All 212.0 kPa 0.75 L/min

Mean Data: VS61 C TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2835044.9	100.3	%	0.57				0.57%
ScR 361.383	377778.6	99.97	%	0.526				0.53%
Ag 328.068†	-26.0	-0.00014	mg/L	0.000187	-0.00014	mg/L	0.000187	136.76%
Al 308.215†	-2.5	-0.00140	mg/L	0.003804	-0.00140	mg/L	0.003804	271.99%
As 188.979†	18.9	0.00755	mg/L	0.002022	0.00755	mg/L	0.002022	26.78%
B 249.677†	915.1	0.1051	mg/L	0.00122	0.1051	mg/L	0.00122	1.16%
Ba 233.527†	607.7	0.1123	mg/L	0.00085	0.1123	mg/L	0.00085	0.76%
Be 313.042†	20.2	0.00003	mg/L	0.000005	0.00003	mg/L	0.000005	18.93%
Ca 317.933†	436194.1	26.35	mg/L	0.077	26.35	mg/L	0.077	0.29%
Cd 228.802†	6.4	0.00012	mg/L	0.000112	0.00012	mg/L	0.000112	93.02%
Co 228.616†	-1.1	-0.00006	mg/L	0.000089	-0.00006	mg/L	0.000089	137.63%
Cr 267.716†	6.9	-0.00045	mg/L	0.000151	-0.00045	mg/L	0.000151	33.57%
Cu 324.752†	95.7	0.00032	mg/L	0.000052	0.00032	mg/L	0.000052	16.29%
Fe 273.955†	3658.9	2.173	mg/L	0.0117	2.173	mg/L	0.0117	0.54%
K 766.490†	1600.6	0.6915	mg/L	0.01653	0.6915	mg/L	0.01653	2.39%
Mg 279.077†	21835.2	13.79	mg/L	0.051	13.79	mg/L	0.051	0.37%
Mn 257.610†	1423.2	0.03123	mg/L	0.000194	0.03123	mg/L	0.000194	0.62%
Mo 202.031†	49.2	0.00192	mg/L	0.000023	0.00192	mg/L	0.000023	1.18%
Na 589.592†	89707.1	6.849	mg/L	0.0334	6.849	mg/L	0.0334	0.49%
Na 330.237†	240.3	7.230	mg/L	0.4850	7.230	mg/L	0.4850	6.71%
Ni 231.604†	-7.4	-0.00148	mg/L	0.000629	-0.00148	mg/L	0.000629	42.52%
Pb 220.353†	-13.5	-0.00157	mg/L	0.000435	-0.00157	mg/L	0.000435	27.63%
Sb 206.836†	-5.3	-0.00157	mg/L	0.000773	-0.00157	mg/L	0.000773	49.36%
Se 196.026†	-4.4	-0.00256	mg/L	0.001841	-0.00256	mg/L	0.001841	71.90%
Si 288.158†	20051.1	8.456	mg/L	0.0170	8.456	mg/L	0.0170	0.20%
Sn 189.927†	-48.3	-0.00785	mg/L	0.000221	-0.00785	mg/L	0.000221	2.81%
Sr 421.552†	169263.4	0.1760	mg/L	0.00065	0.1760	mg/L	0.00065	0.37%
Ti 334.903†	53.8	0.00095	mg/L	0.000329	0.00095	mg/L	0.000329	34.59%
Tl 190.801†	6.3	0.00252	mg/L	0.000804	0.00252	mg/L	0.000804	31.84%
V 292.402†	27.9	0.00014	mg/L	0.000040	0.00014	mg/L	0.000040	27.61%
Zn 206.200†	5.6	0.00120	mg/L	0.000396	0.00120	mg/L	0.000396	33.10%

Sequence No.: 11
 Sample ID: VS61 A-L TWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 307
 Date Collected: 11/28/2012 10:24:15 AM
 Data Type: Original

Nebulizer Parameters: VS61 A-L TWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS61 A-L TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2844780.1	100.7	%	0.87			0.86%
ScR 361.383	381921.5	101.1	%	0.67			0.67%
Ag 328.068†	-25.0	-0.00013	mg/L	0.000193	-0.00066	mg/L	0.000963 146.27%
Al 308.215†	2.1	0.00111	mg/L	0.003102	0.00554	mg/L	0.015510 280.03%
As 188.979†	13.9	0.00569	mg/L	0.001035	0.02845	mg/L	0.005176 18.20%
B 249.677†	1082.0	0.1243	mg/L	0.00040	0.6215	mg/L	0.00198 0.32%
Ba 233.527†	321.0	0.05944	mg/L	0.000382	0.2972	mg/L	0.00191 0.64%
Be 313.042†	14.5	0.00002	mg/L	0.000043	0.00010	mg/L	0.000214 212.13%
Ca 317.933†	272846.3	16.48	mg/L	0.075	82.41	mg/L	0.376 0.46%
Cd 228.802†	7.1	0.00018	mg/L	0.000111	0.00088	mg/L	0.000555 63.06%
Co 228.616†	-2.2	-0.00006	mg/L	0.000059	-0.00030	mg/L	0.000296 98.17%
Cr 267.716†	12.4	0.00068	mg/L	0.000292	0.00342	mg/L	0.001462 42.82%
Cu 324.752†	83.9	0.00024	mg/L	0.000078	0.00118	mg/L	0.000391 33.00%
Fe 273.955†	528.1	0.3137	mg/L	0.00294	1.569	mg/L	0.0147 0.94%
K 766.490†	1130.3	0.4883	mg/L	0.01315	2.441	mg/L	0.0657 2.69%
Mg 279.077†	14405.6	9.102	mg/L	0.0774	45.51	mg/L	0.387 0.85%
Mn 257.610†	1581.5	0.03473	mg/L	0.000386	0.1736	mg/L	0.00193 1.11%
Mo 202.031†	40.7	0.00165	mg/L	0.000067	0.00824	mg/L	0.000335 4.06%
Na 589.592†	41047.8	3.134	mg/L	0.0142	15.67	mg/L	0.071 0.45%
Na 330.237†	108.7	3.271	mg/L	0.1135	16.35	mg/L	0.567 3.47%
Ni 231.604†	-4.6	-0.00091	mg/L	0.000790	-0.00457	mg/L	0.003950 86.41%
Pb 220.353†	-4.2	-0.00047	mg/L	0.000281	-0.00234	mg/L	0.001406 60.20%
Sb 206.836†	-0.1	-0.00012	mg/L	0.001353	-0.00059	mg/L	0.006763 >999.9%
Se 196.026†	0.3	0.00020	mg/L	0.001826	0.00102	mg/L	0.009128 898.65%
Si 288.158†	3909.4	1.650	mg/L	0.0178	8.248	mg/L	0.0892 1.08%
Sn 189.927†	-30.9	-0.00508	mg/L	0.000940	-0.02541	mg/L	0.004700 18.50%
Sr 421.552†	240761.8	0.2503	mg/L	0.00110	1.252	mg/L	0.0055 0.44%
Ti 334.903†	11.0	-0.00034	mg/L	0.000890	-0.00168	mg/L	0.004451 264.76%
Tl 190.801†	0.6	0.00025	mg/L	0.000447	0.00125	mg/L	0.002234 178.79%
V 292.402†	27.2	0.00021	mg/L	0.000077	0.00105	mg/L	0.000384 36.66%
Zn 206.200†	4.0	0.00086	mg/L	0.000513	0.00429	mg/L	0.002567 59.87%

Sequence No.: 12
 Sample ID: VS61 A TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 308
 Date Collected: 11/28/2012 10:28:31 AM
 Data Type: Original

Nebulizer Parameters: VS61 A TWC

Analyte Back Pressure Flow
 All 212.0 kPa 0.75 L/min

Mean Data: VS61 A TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2791800.8	98.81	%	0.304				0.31%
ScR 361.383	370633.4	98.08	%	0.287				0.29%
Ag 328.068†	-94.9	-0.00050	mg/L	0.000204	-0.00050	mg/L	0.000204	40.91%
Al 308.215†	14.2	0.00764	mg/L	0.003125	0.00764	mg/L	0.003125	40.91%
As 188.979†	39.1	0.01402	mg/L	0.001333	0.01402	mg/L	0.001333	9.51%
B 249.677†	5464.6	0.6278	mg/L	0.00307	0.6278	mg/L	0.00307	0.49%
Ba 233.527†	1605.3	0.2973	mg/L	0.00087	0.2973	mg/L	0.00087	0.29%
Be 313.042†	72.5	0.00010	mg/L	0.000014	0.00010	mg/L	0.000014	14.23%
Ca 317.933†	1364173.1	82.40	mg/L	0.645	82.40	mg/L	0.645	0.78%
Cd 228.802†	6.4	0.00006	mg/L	0.000131	0.00006	mg/L	0.000131	210.34%
Co 228.616†	5.0	0.00006	mg/L	0.000134	0.00006	mg/L	0.000134	224.14%
Cr 267.716†	34.8	-0.00018	mg/L	0.000094	-0.00018	mg/L	0.000094	52.68%
Cu 324.752†	185.9	0.00034	mg/L	0.000088	0.00034	mg/L	0.000088	25.82%
Fe 273.955†	2609.8	1.550	mg/L	0.0071	1.550	mg/L	0.0071	0.46%
K 766.490†	5909.2	2.553	mg/L	0.0079	2.553	mg/L	0.0079	0.31%
Mg 279.077†	73099.4	46.19	mg/L	0.096	46.19	mg/L	0.096	0.21%
Mn 257.610†	7527.3	0.1653	mg/L	0.00036	0.1653	mg/L	0.00036	0.22%
Mo 202.031†	105.7	0.00385	mg/L	0.000125	0.00385	mg/L	0.000125	3.23%
Na 589.592†	210654.7	16.08	mg/L	0.126	16.08	mg/L	0.126	0.78%
Na 330.237†	560.9	16.88	mg/L	0.120	16.88	mg/L	0.120	0.71%
Ni 231.604†	-1.5	-0.00031	mg/L	0.000800	-0.00031	mg/L	0.000800	260.62%
Pb 220.353†	-25.1	-0.00282	mg/L	0.000684	-0.00282	mg/L	0.000684	24.29%
Sb 206.836†	-2.6	-0.00094	mg/L	0.001361	-0.00094	mg/L	0.001361	145.27%
Se 196.026†	-19.2	-0.01126	mg/L	0.003418	-0.01126	mg/L	0.003418	30.36%
Si 288.158†	19919.8	8.405	mg/L	0.0228	8.405	mg/L	0.0228	0.27%
Sn 189.927†	-76.5	-0.00741	mg/L	0.000249	-0.00741	mg/L	0.000249	3.36%
Sr 421.552†	1215317.0	1.264	mg/L	0.0118	1.264	mg/L	0.0118	0.93%
Ti 334.903†	128.7	0.00135	mg/L	0.000264	0.00135	mg/L	0.000264	19.48%
Tl 190.801†	11.4	0.00431	mg/L	0.002026	0.00431	mg/L	0.002026	47.04%
V 292.402†	60.3	0.00045	mg/L	0.000090	0.00045	mg/L	0.000090	20.04%
Zn 206.200†	13.3	0.00284	mg/L	0.000618	0.00284	mg/L	0.000618	21.76%

Sequence No.: 13
 Sample ID: VS61 ADUP TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 309
 Date Collected: 11/28/2012 10:32:48 AM
 Data Type: Original

Nebulizer Parameters: VS61 ADUP TWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS61 ADUP TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2800337.6		99.12 %	0.217				0.22%
ScR 361.383	371809.1		98.39 %	1.068				1.09%
Ag 328.068†	-97.0	-0.00051	mg/L	0.000068	-0.00051	mg/L	0.000068	13.39%
Al 308.215†	2.2	0.00112	mg/L	0.004615	0.00112	mg/L	0.004615	413.28%
As 188.979†	41.4	0.01507	mg/L	0.001464	0.01507	mg/L	0.001464	9.71%
B 249.677†	5541.3	0.6366	mg/L	0.00563	0.6366	mg/L	0.00563	0.88%
Ba 233.527†	1610.7	0.2983	mg/L	0.00547	0.2983	mg/L	0.00547	1.83%
Be 313.042†	71.4	0.00010	mg/L	0.000018	0.00010	mg/L	0.000018	18.17%
Ca 317.933†	1373780.9	82.98	mg/L	1.194	82.98	mg/L	1.194	1.44%
Cd 228.802†	14.5	0.00031	mg/L	0.000102	0.00031	mg/L	0.000102	33.14%
Co 228.616†	-1.0	-0.00008	mg/L	0.000129	-0.00008	mg/L	0.000129	165.39%
Cr 267.716†	35.8	-0.00008	mg/L	0.000845	-0.00008	mg/L	0.000845	>999.9%
Cu 324.752†	202.5	0.00040	mg/L	0.000104	0.00040	mg/L	0.000104	26.11%
Fe 273.955†	2633.3	1.564	mg/L	0.0263	1.564	mg/L	0.0263	1.68%
K 766.490†	5947.5	2.569	mg/L	0.0196	2.569	mg/L	0.0196	0.76%
Mg 279.077†	73595.4	46.50	mg/L	0.326	46.50	mg/L	0.326	0.70%
Mn 257.610†	7584.2	0.1665	mg/L	0.00134	0.1665	mg/L	0.00134	0.81%
Mo 202.031†	105.1	0.00382	mg/L	0.000243	0.00382	mg/L	0.000243	6.36%
Na 589.592†	212167.5	16.20	mg/L	0.232	16.20	mg/L	0.232	1.43%
Na 330.237†	564.6	16.99	mg/L	0.159	16.99	mg/L	0.159	0.93%
Ni 231.604†	-0.2	-0.00005	mg/L	0.001564	-0.00005	mg/L	0.001564	>999.9%
Pb 220.353†	-18.0	-0.00203	mg/L	0.000972	-0.00203	mg/L	0.000972	47.80%
Sb 206.836†	3.3	0.00066	mg/L	0.001744	0.00066	mg/L	0.001744	262.83%
Se 196.026†	-16.4	-0.00965	mg/L	0.004556	-0.00965	mg/L	0.004556	47.22%
Si 288.158†	23531.0	9.928	mg/L	0.0638	9.928	mg/L	0.0638	0.64%
Sn 189.927†	-80.5	-0.00825	mg/L	0.000547	-0.00825	mg/L	0.000547	6.63%
Sr 421.552†	1222406.9	1.271	mg/L	0.0188	1.271	mg/L	0.0188	1.48%
Ti 334.903†	136.1	0.00163	mg/L	0.000437	0.00163	mg/L	0.000437	26.86%
Tl 190.801†	8.4	0.00320	mg/L	0.001699	0.00320	mg/L	0.001699	53.13%
V 292.402†	38.2	0.00028	mg/L	0.000262	0.00028	mg/L	0.000262	93.30%
Zn 206.200†	1.6	0.00035	mg/L	0.000281	0.00035	mg/L	0.000281	81.36%

Sequence No.: 14
Sample ID: VS61 ASPK TWC
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 310
Date Collected: 11/28/2012 10:37:05 AM
Data Type: Original

Nebulizer Parameters: VS61 ASPK TWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS61 ASPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2813380.0	99.58	%	0.635				0.64%
ScR 361.383	372504.4	98.57	%	1.060				1.08%
Ag 328.068†	99442.4	0.5239	mg/L	0.00391	0.5239	mg/L	0.00391	0.75%
Al 308.215†	3700.1	2.014	mg/L	0.0226	2.014	mg/L	0.0226	1.12%
As 188.979†	4186.5	1.995	mg/L	0.0209	1.995	mg/L	0.0209	1.05%
B 249.677†	5625.8	0.6454	mg/L	0.00558	0.6454	mg/L	0.00558	0.86%
Ba 233.527†	12362.2	2.291	mg/L	0.0230	2.291	mg/L	0.0230	1.01%
Be 313.042†	350840.5	0.4884	mg/L	0.00387	0.4884	mg/L	0.00387	0.79%
Ca 317.933†	1528342.9	92.32	mg/L	0.750	92.32	mg/L	0.750	0.81%
Cd 228.802†	16434.3	0.5047	mg/L	0.00354	0.5047	mg/L	0.00354	0.70%
Co 228.616†	20858.4	0.4740	mg/L	0.00437	0.4740	mg/L	0.00437	0.92%
Cr 267.716†	3857.8	0.4946	mg/L	0.00405	0.4946	mg/L	0.00405	0.82%
Cu 324.752†	141874.9	0.5079	mg/L	0.00300	0.5079	mg/L	0.00300	0.59%
Fe 273.955†	6082.5	3.609	mg/L	0.0347	3.609	mg/L	0.0347	0.96%
K 766.490†	29222.6	12.62	mg/L	0.111	12.62	mg/L	0.111	0.88%
Mg 279.077†	85933.6	54.29	mg/L	0.452	54.29	mg/L	0.452	0.83%
Mn 257.610†	28801.6	0.6334	mg/L	0.00363	0.6334	mg/L	0.00363	0.57%
Mo 202.031†	107.6	0.00381	mg/L	0.000300	0.00381	mg/L	0.000300	7.87%
Na 589.592†	343772.9	26.25	mg/L	0.203	26.25	mg/L	0.203	0.77%
Na 330.237†	919.8	27.52	mg/L	0.066	27.52	mg/L	0.066	0.24%
Ni 231.604†	2421.7	0.4848	mg/L	0.00542	0.4848	mg/L	0.00542	1.12%
Pb 220.353†	17602.9	1.935	mg/L	0.0175	1.935	mg/L	0.0175	0.91%
Sb 206.836†	16.1	-0.00099	mg/L	0.002994	-0.00099	mg/L	0.002994	302.45%
Se 196.026†	3350.4	1.968	mg/L	0.0173	1.968	mg/L	0.0173	0.88%
Si 288.158†	21573.3	9.105	mg/L	0.0819	9.105	mg/L	0.0819	0.90%
Sn 189.927†	-83.2	-0.00766	mg/L	0.000700	-0.00766	mg/L	0.000700	9.13%
Sr 421.552†	1694623.7	1.762	mg/L	0.0139	1.762	mg/L	0.0139	0.79%
Ti 334.903†	141.0	0.00129	mg/L	0.000233	0.00129	mg/L	0.000233	18.13%
Tl 190.801†	5306.1	1.918	mg/L	0.0165	1.918	mg/L	0.0165	0.86%
V 292.402†	65308.6	0.4992	mg/L	0.00351	0.4992	mg/L	0.00351	0.70%
Zn 206.200†	2266.2	0.4843	mg/L	0.00474	0.4843	mg/L	0.00474	0.98%

Sequence No.: 15 ~~222222~~

Autosampler Location: 311

Sample ID: ~~VS61 APOST TWC~~ **3A**

Date Collected: 11/28/2012 10:41:08 AM

Analyst: BA

Data Type: Original

Dilution: 1.000000X

11/28/12

Nebulizer Parameters: VS61 APOST TWC

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: VS61 APOST TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2785587.8	98.59	%	0.522			0.53%
ScR 361.383	370938.6	98.16	%	0.647			0.66%
Ag 328.068†	95939.3	0.5055	mg/L	0.00263	0.5055 mg/L	0.00263	0.52%
Al 308.215†	3834.6	2.087	mg/L	0.0059	2.087 mg/L	0.0059	0.28%
As 188.979†	4261.0	2.031	mg/L	0.0071	2.031 mg/L	0.0071	0.35%
B 249.677†	5570.1	0.6389	mg/L	0.00243	0.6389 mg/L	0.00243	0.38%
Ba 233.527†	12745.7	2.362	mg/L	0.0112	2.362 mg/L	0.0112	0.48%
Be 313.042†	362924.2	0.5052	mg/L	0.00546	0.5052 mg/L	0.00546	1.08%
Ca 317.933†	1531894.3	92.53	mg/L	0.958	92.53 mg/L	0.958	1.04%
Cd 228.802†	16777.4	0.5152	mg/L	0.00429	0.5152 mg/L	0.00429	0.83%
Co 228.616†	21426.3	0.4869	mg/L	0.00349	0.4869 mg/L	0.00349	0.72%
Cr 267.716†	3996.3	0.5125	mg/L	0.00228	0.5125 mg/L	0.00228	0.44%
Cu 324.752†	145281.7	0.5201	mg/L	0.00304	0.5201 mg/L	0.00304	0.58%
Fe 273.955†	6090.2	3.614	mg/L	0.0192	3.614 mg/L	0.0192	0.53%
K 766.490†	29701.5	12.83	mg/L	0.159	12.83 mg/L	0.159	1.24%
Mg 279.077†	86332.6	54.55	mg/L	0.588	54.55 mg/L	0.588	1.08%
Mn 257.610†	29360.3	0.6457	mg/L	0.00669	0.6457 mg/L	0.00669	1.04%
Mo 202.031†	111.2	0.00396	mg/L	0.000323	0.00396 mg/L	0.000323	8.15%
Na 589.592†	344579.5	26.31	mg/L	0.273	26.31 mg/L	0.273	1.04%
Na 330.237†	913.7	27.32	mg/L	0.198	27.32 mg/L	0.198	0.73%
Ni 231.604†	2511.6	0.5028	mg/L	0.00233	0.5028 mg/L	0.00233	0.46%
Pb 220.353†	17981.4	1.977	mg/L	0.0148	1.977 mg/L	0.0148	0.75%
Sb 206.836†	21.2	0.00020	mg/L	0.000864	0.00020 mg/L	0.000864	437.13%
Se 196.026†	3419.3	2.008	mg/L	0.0108	2.008 mg/L	0.0108	0.54%
Si 288.158†	20248.7	8.547	mg/L	0.0432	8.547 mg/L	0.0432	0.50%
Sn 189.927†	-79.2	-0.00671	mg/L	0.001190	-0.00671 mg/L	0.001190	17.75%
Sr 421.552†	1701515.8	1.769	mg/L	0.0179	1.769 mg/L	0.0179	1.01%
Ti 334.903†	158.6	0.00200	mg/L	0.000270	0.00200 mg/L	0.000270	13.52%
Tl 190.801†	5418.2	1.959	mg/L	0.0084	1.959 mg/L	0.0084	0.43%
V 292.402†	66954.3	0.5118	mg/L	0.00246	0.5118 mg/L	0.00246	0.48%
Zn 206.200†	2373.7	0.5072	mg/L	0.00112	0.5072 mg/L	0.00112	0.22%

Sequence No.: 16
 Sample ID: VS61 MB1SPK TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 312
 Date Collected: 11/28/2012 10:45:11 AM
 Data Type: Original

Nebulizer Parameters: VS61 MB1SPK TWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS61 MB1SPK TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2834557.8	100.3 %		0.27			0.27%
ScR 361.383	379447.2	100.4 %		0.89			0.89%
Ag 328.068†	100806.4	0.5311 mg/L		0.00443	0.5311 mg/L	0.00443	0.83%
Al 308.215†	3731.7	2.031 mg/L		0.0169	2.031 mg/L	0.0169	0.83%
As 188.979†	4219.1	2.016 mg/L		0.0040	2.016 mg/L	0.0040	0.20%
B 249.677†	37.0	0.00321 mg/L		0.000715	0.00321 mg/L	0.000715	22.24%
Ba 233.527†	11003.5	2.039 mg/L		0.0208	2.039 mg/L	0.0208	1.02%
Be 313.042†	361729.0	0.5036 mg/L		0.00328	0.5036 mg/L	0.00328	0.65%
Ca 317.933†	163771.8	9.893 mg/L		0.0829	9.893 mg/L	0.0829	0.84%
Cd 228.802†	16803.3	0.5162 mg/L		0.00470	0.5162 mg/L	0.00470	0.91%
Co 228.616†	22130.3	0.5029 mg/L		0.00328	0.5029 mg/L	0.00328	0.65%
Cr 267.716†	3903.5	0.5050 mg/L		0.00424	0.5050 mg/L	0.00424	0.84%
Cu 324.752†	145294.5	0.5205 mg/L		0.00413	0.5205 mg/L	0.00413	0.79%
Fe 273.955†	3416.7	2.026 mg/L		0.0175	2.026 mg/L	0.0175	0.86%
K 766.490†	23234.7	10.04 mg/L		0.135	10.04 mg/L	0.135	1.34%
Mg 279.077†	16318.5	10.31 mg/L		0.104	10.31 mg/L	0.104	1.01%
Mn 257.610†	22628.2	0.4979 mg/L		0.00423	0.4979 mg/L	0.00423	0.85%
Mo 202.031†	31.1	0.00126 mg/L		0.000168	0.00126 mg/L	0.000168	13.30%
Na 589.592†	131475.3	10.04 mg/L		0.089	10.04 mg/L	0.089	0.89%
Na 330.237†	353.6	10.47 mg/L		0.083	10.47 mg/L	0.083	0.79%
Ni 231.604†	2520.9	0.5047 mg/L		0.00516	0.5047 mg/L	0.00516	1.02%
Pb 220.353†	18448.1	2.028 mg/L		0.0159	2.028 mg/L	0.0159	0.78%
Sb 206.836†	16.8	-0.00070 mg/L		0.001955	-0.00070 mg/L	0.001955	278.22%
Se 196.026†	3402.5	1.999 mg/L		0.0012	1.999 mg/L	0.0012	0.06%
Si 288.158†	18.3	0.01088 mg/L		0.002613	0.01088 mg/L	0.002613	24.02%
Sn 189.927†	-22.3	-0.00383 mg/L		0.001233	-0.00383 mg/L	0.001233	32.17%
Sr 421.552†	487973.2	0.5073 mg/L		0.00392	0.5073 mg/L	0.00392	0.77%
Ti 334.903†	17.9	0.00016 mg/L		0.000029	0.00016 mg/L	0.000029	17.91%
Tl 190.801†	5562.8	2.011 mg/L		0.0054	2.011 mg/L	0.0054	0.27%
V 292.402†	67344.1	0.5147 mg/L		0.00455	0.5147 mg/L	0.00455	0.88%
Zn 206.200†	2346.3	0.5014 mg/L		0.00605	0.5014 mg/L	0.00605	1.21%

Sequence No.: 17
Sample ID: CV 2
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 7
Date Collected: 11/28/2012 10:49:13 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2831318.6	100.2 %	0.16			0.16%
ScR 361.383	375626.7	99.40 %	0.483			0.49%
Ag 328.068†	197746.4	1.042 mg/L	0.0023	1.042 mg/L	0.0023	0.22%
Al 308.215†	3757.7	2.018 mg/L	0.0091	2.018 mg/L	0.0091	0.45%
As 188.979†	4178.6	2.022 mg/L	0.0060	2.022 mg/L	0.0060	0.30%
B 249.677†	8829.7	1.014 mg/L	0.0059	1.014 mg/L	0.0059	0.58%
Ba 233.527†	5531.2	1.025 mg/L	0.0047	1.025 mg/L	0.0047	0.46%
Be 313.042†	716462.3	0.9974 mg/L	0.00727	0.9974 mg/L	0.00727	0.73%
Ca 317.933†	34352.7	2.075 mg/L	0.0091	2.075 mg/L	0.0091	0.44%
Cd 228.802†	32745.7	1.019 mg/L	0.0020	1.019 mg/L	0.0020	0.19%
Co 228.616†	44022.1	0.9989 mg/L	0.00147	0.9989 mg/L	0.00147	0.15%
Cr 267.716†	7786.8	1.009 mg/L	0.0031	1.009 mg/L	0.0031	0.31%
Cu 324.752†	287470.3	1.029 mg/L	0.0020	1.029 mg/L	0.0020	0.19%
Fe 273.955†	3464.4	2.051 mg/L	0.0132	2.051 mg/L	0.0132	0.65%
K 766.490†	46992.6	20.30 mg/L	0.145	20.30 mg/L	0.145	0.72%
Mg 279.077†	3196.2	2.027 mg/L	0.0076	2.027 mg/L	0.0076	0.38%
Mn 257.610†	45856.2	1.009 mg/L	0.0070	1.009 mg/L	0.0070	0.70%
Mo 202.031†	23275.5	1.045 mg/L	0.0011	1.045 mg/L	0.0011	0.10%
Na 589.592†	676084.2	51.62 mg/L	0.385	51.62 mg/L	0.385	0.74%
Na 330.237†	1747.5	52.47 mg/L	0.762	52.47 mg/L	0.762	1.45%
Ni 231.604†	5067.0	1.016 mg/L	0.0054	1.016 mg/L	0.0054	0.53%
Pb 220.353†	18860.1	2.074 mg/L	0.0039	2.074 mg/L	0.0039	0.19%
Sb 206.836†	7852.5	2.142 mg/L	0.0091	2.142 mg/L	0.0091	0.43%
Se 196.026†	3375.2	1.982 mg/L	0.0028	1.982 mg/L	0.0028	0.14%
Si 288.158†	4940.4	2.082 mg/L	0.0145	2.082 mg/L	0.0145	0.69%
Sn 189.927†	4472.6	1.030 mg/L	0.0025	1.030 mg/L	0.0025	0.24%
Sr 421.552†	971556.4	1.010 mg/L	0.0081	1.010 mg/L	0.0081	0.80%
Ti 334.903†	25018.3	1.027 mg/L	0.0087	1.027 mg/L	0.0087	0.85%
Tl 190.801†	5552.0	2.003 mg/L	0.0056	2.003 mg/L	0.0056	0.28%
V 292.402†	135025.8	1.032 mg/L	0.0021	1.032 mg/L	0.0021	0.21%
Zn 206.200†	4907.6	1.048 mg/L	0.0039	1.048 mg/L	0.0039	0.38%

Sequence No.: 18
Sample ID: CB 2
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 1
Date Collected: 11/28/2012 10:53:34 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 214.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2857018.3	101.1	%	0.16			0.16%
ScR 361.383	379333.3	100.4	%	0.45			0.45%
Ag 328.068†	15.7	0.00008	mg/L	0.000209	0.00008 mg/L	0.000209	252.88%
Al 308.215†	-0.2	-0.00010	mg/L	0.002777	-0.00010 mg/L	0.002777	>999.9%
As 188.979†	1.1	0.00053	mg/L	0.001182	0.00053 mg/L	0.001182	224.60%
B 249.677†	23.5	0.00270	mg/L	0.000273	0.00270 mg/L	0.000273	10.13%
Ba 233.527†	1.6	0.00030	mg/L	0.000346	0.00030 mg/L	0.000346	114.66%
Be 313.042†	49.2	0.00007	mg/L	0.000009	0.00007 mg/L	0.000009	12.89%
Ca 317.933†	9.0	0.00054	mg/L	0.000836	0.00054 mg/L	0.000836	154.36%
Cd 228.802†	-0.3	-0.00001	mg/L	0.000035	-0.00001 mg/L	0.000035	274.37%
Co 228.616†	-1.9	-0.00004	mg/L	0.000177	-0.00004 mg/L	0.000177	405.04%
Cr 267.716†	-0.9	-0.00012	mg/L	0.000831	-0.00012 mg/L	0.000831	699.19%
Cu 324.752†	88.7	0.00032	mg/L	0.000022	0.00032 mg/L	0.000022	7.04%
Fe 273.955†	2.8	0.00165	mg/L	0.000258	0.00165 mg/L	0.000258	15.68%
K 766.490†	-1.8	-0.00077	mg/L	0.008632	-0.00077 mg/L	0.008632	>999.9%
Mg 279.077†	3.9	0.00247	mg/L	0.002482	0.00247 mg/L	0.002482	100.50%
Mn 257.610†	6.9	0.00015	mg/L	0.000106	0.00015 mg/L	0.000106	69.26%
Mo 202.031†	12.6	0.00057	mg/L	0.000249	0.00057 mg/L	0.000249	44.00%
Na 589.592†	107.2	0.00818	mg/L	0.001991	0.00818 mg/L	0.001991	24.34%
Na 330.237†	12.6	0.3786	mg/L	0.24351	0.3786 mg/L	0.24351	64.32%
Ni 231.604†	-6.2	-0.00125	mg/L	0.000566	-0.00125 mg/L	0.000566	45.24%
Pb 220.353†	5.5	0.00061	mg/L	0.000619	0.00061 mg/L	0.000619	101.99%
Sb 206.836†	1.9	0.00053	mg/L	0.000352	0.00053 mg/L	0.000352	66.78%
Se 196.026†	7.4	0.00437	mg/L	0.002330	0.00437 mg/L	0.002330	53.38%
Si 288.158†	16.7	0.00704	mg/L	0.004518	0.00704 mg/L	0.004518	64.16%
Sn 189.927†	3.1	0.00072	mg/L	0.000350	0.00072 mg/L	0.000350	48.66%
Sr 421.552†	86.4	0.00009	mg/L	0.000037	0.00009 mg/L	0.000037	41.49%
Ti 334.903†	4.2	0.00017	mg/L	0.000434	0.00017 mg/L	0.000434	250.23%
Tl 190.801†	3.3	0.00118	mg/L	0.001504	0.00118 mg/L	0.001504	126.96%
V 292.402†	7.2	0.00005	mg/L	0.000235	0.00005 mg/L	0.000235	429.29%
Zn 206.200†	0.4	0.00010	mg/L	0.000237	0.00010 mg/L	0.000237	247.78%

Sequence No.: 19
 Sample ID: CRI
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 301
 Date Collected: 11/28/2012 10:57:51 AM
 Data Type: Original

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	213.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2824416.2	99.97	%	0.358				0.36%
ScR 361.283	379418.6	100.4	%	0.66				0.65%
Ag 328.068†	552.4	0.00291	mg/L	0.000224	0.00291	mg/L	0.000224	7.71%
Al 308.215†	87.6	0.04773	mg/L	0.000896	0.04773	mg/L	0.000896	1.88%
As 188.979†	103.8	0.04974	mg/L	0.001495	0.04974	mg/L	0.001495	3.01%
B 249.677†	182.5	0.02097	mg/L	0.000303	0.02097	mg/L	0.000303	1.44%
Ba 233.527†	15.6	0.00288	mg/L	0.000353	0.00288	mg/L	0.000353	12.25%
Be 313.042†	708.3	0.00099	mg/L	0.000035	0.00099	mg/L	0.000035	3.53%
Ca 317.933†	801.9	0.04844	mg/L	0.000837	0.04844	mg/L	0.000837	1.73%
Cd 228.802†	80.4	0.00221	mg/L	0.000066	0.00221	mg/L	0.000066	2.98%
Co 228.616†	146.6	0.00332	mg/L	0.000064	0.00332	mg/L	0.000064	1.93%
Cr 267.716†	36.2	0.00469	mg/L	0.000497	0.00469	mg/L	0.000497	10.58%
Cu 324.752†	616.6	0.00221	mg/L	0.000088	0.00221	mg/L	0.000088	3.97%
Fe 273.955†	87.9	0.05220	mg/L	0.001828	0.05220	mg/L	0.001828	3.50%
K 766.490†	1145.7	0.4950	mg/L	0.01800	0.4950	mg/L	0.01800	3.64%
Mg 279.077†	80.4	0.05083	mg/L	0.001886	0.05083	mg/L	0.001886	3.71%
Mn 257.610†	48.8	0.00108	mg/L	0.000125	0.00108	mg/L	0.000125	11.57%
Mo 202.031†	120.0	0.00539	mg/L	0.000054	0.00539	mg/L	0.000054	1.00%
Na 589.592†	6350.0	0.4848	mg/L	0.00740	0.4848	mg/L	0.00740	1.53%
Na 330.237†	22.6	0.6783	mg/L	0.39829	0.6783	mg/L	0.39829	58.72%
Ni 231.604†	44.7	0.00897	mg/L	0.001253	0.00897	mg/L	0.001253	13.96%
Pb 220.353†	184.1	0.02026	mg/L	0.001068	0.02026	mg/L	0.001068	5.27%
Sb 206.836†	190.8	0.05211	mg/L	0.000702	0.05211	mg/L	0.000702	1.35%
Se 196.026†	90.3	0.05305	mg/L	0.001783	0.05305	mg/L	0.001783	3.36%
Si 288.158†	152.9	0.06442	mg/L	0.001585	0.06442	mg/L	0.001585	2.46%
Sn 189.927†	43.4	0.01002	mg/L	0.000568	0.01002	mg/L	0.000568	5.67%
Sr 421.552†	1038.1	0.00108	mg/L	0.000029	0.00108	mg/L	0.000029	2.72%
Ti 334.903†	128.3	0.00527	mg/L	0.000517	0.00527	mg/L	0.000517	9.81%
Tl 190.801†	133.6	0.04839	mg/L	0.001926	0.04839	mg/L	0.001926	3.98%
V 292.402†	416.4	0.00319	mg/L	0.000058	0.00319	mg/L	0.000058	1.82%
Zn 206.200†	45.3	0.00969	mg/L	0.000650	0.00969	mg/L	0.000650	6.71%

Sequence No.: 20
 Sample ID: ICSA
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 302
 Date Collected: 11/28/2012 11:02:08 AM
 Data Type: Original

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2796601.1	98.98	%	0.758			0.77%
ScR 361.383	372164.7	98.48	%	0.483			0.49%
Ag 328.068†	-262.9	-0.00138	mg/L	0.000050	-0.00138 mg/L	0.000050	3.60%
Al 308.215†	371353.7	202.9	mg/L	0.89	202.9 mg/L	0.89	0.44%
As 188.979†	39.9	0.01333	mg/L	0.000736	0.01333 mg/L	0.000736	5.52%
B 249.677†	-50.3	-0.00577	mg/L	0.000995	-0.00577 mg/L	0.000995	17.23%
Ba 233.527†	155.4	-0.00390	mg/L	0.001414	-0.00390 mg/L	0.001414	36.23%
Be 313.042†	99.6	0.00014	mg/L	0.000010	0.00014 mg/L	0.000010	7.69%
Ca 317.933†	1688165.6	102.0	mg/L	0.91	102.0 mg/L	0.91	0.90%
Cd 228.802†	65.5	0.00003	mg/L	0.000220	0.00003 mg/L	0.000220	639.70%
Co 228.616†	76.4	-0.00087	mg/L	0.000163	-0.00087 mg/L	0.000163	18.67%
Cr 267.716†	-2.5	-0.00216	mg/L	0.001686	-0.00216 mg/L	0.001686	77.92%
Cu 324.752†	-2191.1	0.00013	mg/L	0.000027	0.00013 mg/L	0.000027	21.15%
Fe 273.955†	336198.2	199.7	mg/L	1.75	199.7 mg/L	1.75	0.88%
K 766.490†	-1.8	-0.00078	mg/L	0.018059	-0.00078 mg/L	0.018059	>999.9%
Mg 279.077†	160316.3	101.2	mg/L	1.07	101.2 mg/L	1.07	1.06%
Mn 257.610†	64.9	0.00139	mg/L	0.000273	0.00139 mg/L	0.000273	19.63%
Mo 202.031†	77.0	0.00235	mg/L	0.000374	0.00235 mg/L	0.000374	15.91%
Na 589.592†	223.4	0.01705	mg/L	0.003776	0.01705 mg/L	0.003776	22.14%
Na 330.237†	-5.8	-0.1740	mg/L	0.13813	-0.1740 mg/L	0.13813	79.37%
Ni 231.604†	-6.5	-0.00129	mg/L	0.001959	-0.00129 mg/L	0.001959	151.52%
Pb 220.353†	-411.5	-0.00490	mg/L	0.000816	-0.00490 mg/L	0.000816	16.65%
Sb 206.836†	41.2	0.01111	mg/L	0.001980	0.01111 mg/L	0.001980	17.83%
Se 196.026†	26.7	0.01566	mg/L	0.006614	0.01566 mg/L	0.006614	42.23%
Si 288.158†	-29.5	-0.00017	mg/L	0.003611	-0.00017 mg/L	0.003611	>999.9%
Sn 189.927†	-87.0	-0.00739	mg/L	0.000616	-0.00739 mg/L	0.000616	8.33%
Sr 421.552†	3965.6	0.00412	mg/L	0.000039	0.00412 mg/L	0.000039	0.95%
Ti 334.903†	156.4	0.00156	mg/L	0.000628	0.00156 mg/L	0.000628	40.22%
Tl 190.801†	-71.4	-0.00455	mg/L	0.003050	-0.00455 mg/L	0.003050	67.09%
V 292.402†	1534.9	0.00470	mg/L	0.000139	0.00470 mg/L	0.000139	2.96%
Zn 206.200†	9.0	0.00192	mg/L	0.000728	0.00192 mg/L	0.000728	38.02%

Sequence No.: 21
Sample ID: ICSAB
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 303
Date Collected: 11/28/2012 11:06:11 AM
Data Type: Original

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2793804.9	98.88 %	0.439			0.44%
ScR 361.383	371507.8	98.31 %	0.481			0.49%
Ag 328.068†	201569.7	1.062 mg/L	0.0085	1.062 mg/L	0.0085	0.80%
Al 308.215†	368137.7	201.1 mg/L	1.18	201.1 mg/L	1.18	0.58%
As 188.979†	2158.7	1.025 mg/L	0.0086	1.025 mg/L	0.0086	0.84%
B 249.677†	-16.3	-0.00383 mg/L	0.000242	-0.00383 mg/L	0.000242	6.32%
Ba 233.527†	5682.2	1.020 mg/L	0.0075	1.020 mg/L	0.0075	0.73%
Be 313.042†	725045.9	1.009 mg/L	0.0062	1.009 mg/L	0.0062	0.61%
Ca 317.933†	1685472.9	101.8 mg/L	0.59	101.8 mg/L	0.59	0.58%
Cd 228.802†	32656.0	1.021 mg/L	0.0041	1.021 mg/L	0.0041	0.41%
Co 228.616†	41971.3	0.9515 mg/L	0.00638	0.9515 mg/L	0.00638	0.67%
Cr 267.716†	7861.9	1.017 mg/L	0.0057	1.017 mg/L	0.0057	0.56%
Cu 324.752†	289423.0	1.045 mg/L	0.0078	1.045 mg/L	0.0078	0.75%
Fe 273.955†	335266.7	199.1 mg/L	0.99	199.1 mg/L	0.99	0.50%
K 766.490†	-72.6	-0.03137 mg/L	0.004735	-0.03137 mg/L	0.004735	15.09%
Mg 279.077†	160247.8	101.1 mg/L	0.56	101.1 mg/L	0.56	0.55%
Mn 257.610†	43803.0	0.9633 mg/L	0.00542	0.9633 mg/L	0.00542	0.56%
Mo 202.031†	74.4	0.00218 mg/L	0.000095	0.00218 mg/L	0.000095	4.35%
Na 589.592†	380.6	0.02906 mg/L	0.002972	0.02906 mg/L	0.002972	10.23%
Na 330.237†	12.7	0.05937 mg/L	0.241291	0.05937 mg/L	0.241291	406.42%
Ni 231.604†	4932.6	0.9894 mg/L	0.00569	0.9894 mg/L	0.00569	0.58%
Pb 220.353†	8743.9	1.002 mg/L	0.0059	1.002 mg/L	0.0059	0.58%
Sb 206.836†	3868.1	1.045 mg/L	0.0068	1.045 mg/L	0.0068	0.66%
Se 196.026†	1724.1	1.012 mg/L	0.0105	1.012 mg/L	0.0105	1.04%
Si 288.158†	-37.0	0.00035 mg/L	0.002897	0.00035 mg/L	0.002897	830.73%
Sn 189.927†	-85.4	-0.00653 mg/L	0.000230	-0.00653 mg/L	0.000230	3.52%
Sr 421.552†	3970.5	0.00413 mg/L	0.000045	0.00413 mg/L	0.000045	1.10%
Ti 334.903†	154.6	0.00129 mg/L	0.000199	0.00129 mg/L	0.000199	15.40%
Tl 190.801†	2560.5	0.9398 mg/L	0.00615	0.9398 mg/L	0.00615	0.65%
V 292.402†	133213.4	1.011 mg/L	0.0069	1.011 mg/L	0.0069	0.68%
Zn 206.200†	4622.0	0.9875 mg/L	0.00653	0.9875 mg/L	0.00653	0.66%

Sequence No.: 22
 Sample ID: CV 3
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 11:10:15 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2863026.5	101.3 %	0.23			0.22%
ScR 361.383	379311.0	100.4 %	0.34			0.34%
Ag 328.068†	197329.8	1.040 mg/L	0.0109	1.040 mg/L	0.0109	1.05%
Al 308.215†	3850.7	2.068 mg/L	0.0138	2.068 mg/L	0.0138	0.67%
As 188.979†	4238.0	2.051 mg/L	0.0113	2.051 mg/L	0.0113	0.55%
B 249.677†	8918.1	1.024 mg/L	0.0021	1.024 mg/L	0.0021	0.21%
Ba 233.527†	5585.0	1.035 mg/L	0.0087	1.035 mg/L	0.0087	0.84%
Be 313.042†	725665.2	1.010 mg/L	0.0019	1.010 mg/L	0.0019	0.18%
Ca 317.933†	35165.2	2.124 mg/L	0.0118	2.124 mg/L	0.0118	0.55%
Cd 228.802†	33040.4	1.028 mg/L	0.0068	1.028 mg/L	0.0068	0.66%
Co 228.616†	44406.7	1.008 mg/L	0.0075	1.008 mg/L	0.0075	0.75%
Cr 267.716†	7908.5	1.025 mg/L	0.0041	1.025 mg/L	0.0041	0.40%
Cu 324.752†	286281.3	1.025 mg/L	0.0106	1.025 mg/L	0.0106	1.03%
Fe 273.955†	3597.8	2.130 mg/L	0.0116	2.130 mg/L	0.0116	0.55%
K 766.490†	47224.8	20.40 mg/L	0.006	20.40 mg/L	0.006	0.03%
Mg 279.077†	3316.6	2.103 mg/L	0.0105	2.103 mg/L	0.0105	0.50%
Mn 257.610†	46613.8	1.025 mg/L	0.0040	1.025 mg/L	0.0040	0.39%
Mo 202.031†	23494.3	1.055 mg/L	0.0027	1.055 mg/L	0.0027	0.26%
Na 589.592†	675763.1	51.60 mg/L	0.138	51.60 mg/L	0.138	0.27%
Na 330.237†	1757.1	52.75 mg/L	0.288	52.75 mg/L	0.288	0.55%
Ni 231.604†	5139.0	1.031 mg/L	0.0073	1.031 mg/L	0.0073	0.71%
Pb 220.353†	19132.7	2.104 mg/L	0.0075	2.104 mg/L	0.0075	0.36%
Sb 206.836†	7932.2	2.164 mg/L	0.0108	2.164 mg/L	0.0108	0.50%
Se 196.026†	3435.9	2.018 mg/L	0.0149	2.018 mg/L	0.0149	0.74%
Si 288.158†	4995.5	2.106 mg/L	0.0161	2.106 mg/L	0.0161	0.76%
Sn 189.927†	4563.7	1.051 mg/L	0.0060	1.051 mg/L	0.0060	0.57%
Sr 421.552†	971682.0	1.010 mg/L	0.0009	1.010 mg/L	0.0009	0.09%
Ti 334.903†	25237.4	1.036 mg/L	0.0032	1.036 mg/L	0.0032	0.31%
Tl 190.801†	5600.1	2.021 mg/L	0.0086	2.021 mg/L	0.0086	0.43%
V 292.402†	135309.6	1.034 mg/L	0.0089	1.034 mg/L	0.0089	0.86%
Zn 206.200†	5024.8	1.073 mg/L	0.0047	1.073 mg/L	0.0047	0.44%

Sequence No.: 23
 Sample ID: CB 3
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 11:14:36 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2873284.7	101.7	%	0.20				0.20%
ScR 361.383	378746.5	100.2	%	1.16				1.15%
Ag 328.068†	-54.6	-0.00029	mg/L	0.000161	-0.00029	mg/L	0.000161	55.89%
Al 308.215†	8.6	0.00466	mg/L	0.014999	0.00466	mg/L	0.014999	321.54%
As 188.979†	2.0	0.00096	mg/L	0.001559	0.00096	mg/L	0.001559	162.76%
B 249.677†	13.7	0.00157	mg/L	0.000170	0.00157	mg/L	0.000170	10.85%
Ba 233.527†	-0.3	-0.00006	mg/L	0.000646	-0.00006	mg/L	0.000646	>999.9%
Be 313.042†	64.9	0.00009	mg/L	0.000048	0.00009	mg/L	0.000048	53.46%
Ca 317.933†	27.4	0.00166	mg/L	0.001449	0.00166	mg/L	0.001449	87.48%
Cd 228.802†	0.2	-0.00000	mg/L	0.000096	-0.00000	mg/L	0.000096	>999.9%
Co 228.616†	2.3	0.00005	mg/L	0.000145	0.00005	mg/L	0.000145	282.89%
Cr 267.716†	2.1	0.00027	mg/L	0.000653	0.00027	mg/L	0.000653	238.51%
Cu 324.752†	0.2	0.00000	mg/L	0.000126	0.00000	mg/L	0.000126	>999.9%
Fe 273.955†	3.5	0.00210	mg/L	0.002378	0.00210	mg/L	0.002378	113.40%
K 766.490†	-36.4	-0.01571	mg/L	0.007130	-0.01571	mg/L	0.007130	45.39%
Mg 279.077†	-1.6	-0.00099	mg/L	0.005031	-0.00099	mg/L	0.005031	509.75%
Mn 257.610†	11.3	0.00025	mg/L	0.000127	0.00025	mg/L	0.000127	51.22%
Mo 202.031†	20.9	0.00094	mg/L	0.000243	0.00094	mg/L	0.000243	25.92%
Na 589.592†	44.9	0.00343	mg/L	0.003167	0.00343	mg/L	0.003167	92.38%
Na 330.237†	-2.9	-0.08647	mg/L	0.246002	-0.08647	mg/L	0.246002	284.50%
Ni 231.604†	-2.3	-0.00045	mg/L	0.001228	-0.00045	mg/L	0.001228	270.41%
Pb 220.353†	-5.0	-0.00055	mg/L	0.000628	-0.00055	mg/L	0.000628	113.93%
Sb 206.836†	8.8	0.00239	mg/L	0.001738	0.00239	mg/L	0.001738	72.64%
Se 196.026†	6.2	0.00365	mg/L	0.001833	0.00365	mg/L	0.001833	50.26%
Si 288.158†	2.9	0.00124	mg/L	0.002688	0.00124	mg/L	0.002688	216.15%
Sn 189.927†	1.1	0.00026	mg/L	0.000301	0.00026	mg/L	0.000301	115.72%
Sr 421.552†	48.9	0.00005	mg/L	0.000034	0.00005	mg/L	0.000034	67.30%
Ti 334.903†	7.1	0.00029	mg/L	0.000445	0.00029	mg/L	0.000445	152.55%
Tl 190.801†	2.0	0.00072	mg/L	0.001270	0.00072	mg/L	0.001270	177.52%
V 292.402†	8.6	0.00007	mg/L	0.000065	0.00007	mg/L	0.000065	97.88%
Zn 206.200†	-0.4	-0.00008	mg/L	0.000678	-0.00008	mg/L	0.000678	839.70%

Sequence No.: 24
 Sample ID: VS80 MB1 TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 313
 Date Collected: 11/28/2012 11:18:52 AM
 Data Type: Original

Nebulizer Parameters: VS80 MB1 TWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS80 MB1 TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2874978.8		101.8 %	0.88				0.87%
ScR 361.383	384109.6		101.6 %	0.31				0.31%
Ag 328.068†	-1.3	-0.00001	mg/L	0.000086	-0.00001	mg/L	0.000086	>999.9%
Al 308.215†	8.7	0.00474	mg/L	0.005847	0.00474	mg/L	0.005847	123.45%
As 188.979†	-1.9	-0.00089	mg/L	0.000503	-0.00089	mg/L	0.000503	56.67%
B 249.677†	8.1	0.00093	mg/L	0.000617	0.00093	mg/L	0.000617	66.62%
Ba 233.527†	-2.2	-0.00042	mg/L	0.000452	-0.00042	mg/L	0.000452	108.98%
Be 313.042†	14.7	0.00002	mg/L	0.000030	0.00002	mg/L	0.000030	147.28%
Ca 317.933†	70.0	0.00423	mg/L	0.001371	0.00423	mg/L	0.001371	32.42%
Cd 228.802†	0.2	0.00001	mg/L	0.000194	0.00001	mg/L	0.000194	>999.9%
Co 228.616†	-3.5	-0.00008	mg/L	0.000155	-0.00008	mg/L	0.000155	196.78%
Cr 267.716†	2.8	0.00037	mg/L	0.000332	0.00037	mg/L	0.000332	90.78%
Cu 324.752†	30.1	0.00011	mg/L	0.000104	0.00011	mg/L	0.000104	96.61%
Fe 273.955†	0.8	0.00047	mg/L	0.001310	0.00047	mg/L	0.001310	280.03%
K 766.490†	5.7	0.00248	mg/L	0.008417	0.00248	mg/L	0.008417	339.13%
Mg 279.077†	7.9	0.00500	mg/L	0.005348	0.00500	mg/L	0.005348	106.91%
Mn 257.610†	9.2	0.00020	mg/L	0.000046	0.00020	mg/L	0.000046	22.95%
Mo 202.031†	6.9	0.00031	mg/L	0.000348	0.00031	mg/L	0.000348	112.40%
Na 589.592†	108.9	0.00832	mg/L	0.001460	0.00832	mg/L	0.001460	17.56%
Na 330.237†	7.2	0.2151	mg/L	0.44318	0.2151	mg/L	0.44318	206.08%
Ni 231.604†	-5.5	-0.00110	mg/L	0.000890	-0.00110	mg/L	0.000890	81.10%
Pb 220.353†	7.1	0.00078	mg/L	0.000619	0.00078	mg/L	0.000619	78.98%
Sb 206.836†	2.3	0.00063	mg/L	0.001389	0.00063	mg/L	0.001389	220.20%
Se 196.026†	4.5	0.00263	mg/L	0.001218	0.00263	mg/L	0.001218	46.33%
Si 288.158†	8.6	0.00365	mg/L	0.001941	0.00365	mg/L	0.001941	53.16%
Sn 189.927†	-1.5	-0.00035	mg/L	0.000599	-0.00035	mg/L	0.000599	172.91%
Sr 421.552†	19.6	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025	122.42%
Ti 334.903†	3.9	0.00016	mg/L	0.000988	0.00016	mg/L	0.000988	612.28%
Tl 190.801†	-0.9	-0.00032	mg/L	0.002070	-0.00032	mg/L	0.002070	647.79%
V 292.402†	5.6	0.00004	mg/L	0.000103	0.00004	mg/L	0.000103	230.94%
Zn 206.200†	7.5	0.00160	mg/L	0.000331	0.00160	mg/L	0.000331	20.61%

Sequence No.: 25
Sample ID: VS80 B TWC
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 314
Date Collected: 11/28/2012 11:23:09 AM
Data Type: Original

Nebulizer Parameters: VS80 B TWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS80 B TWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2808317.1	99.40 %	0.400			0.40%
ScR 361.383	372867.5	98.67 %	0.463			0.47%
Ag 328.068†	-104.6	-0.00055 mg/L	0.000136	-0.00055 mg/L	0.000136	24.63%
Al 308.215†	6.6	0.00350 mg/L	0.005621	0.00350 mg/L	0.005621	160.43%
As 188.979†	45.3	0.01546 mg/L	0.002166	0.01546 mg/L	0.002166	14.02%
B 249.677†	7142.8	0.8206 mg/L	0.00514	0.8206 mg/L	0.00514	0.63%
Ba 233.527†	1802.8	0.3339 mg/L	0.00052	0.3339 mg/L	0.00052	0.16%
Be 313.042†	72.1	0.00010 mg/L	0.000006	0.00010 mg/L	0.000006	5.51%
Ca 317.933†	1822440.0	110.1 mg/L	0.21	110.1 mg/L	0.21	0.19%
Cd 228.802†	12.9	0.00025 mg/L	0.000109	0.00025 mg/L	0.000109	43.82%
Co 228.616†	28.6	0.00060 mg/L	0.000141	0.00060 mg/L	0.000141	23.56%
Cr 267.716†	51.7	-0.00013 mg/L	0.000342	-0.00013 mg/L	0.000342	260.73%
Cu 324.752†	265.9	0.00042 mg/L	0.000009	0.00042 mg/L	0.000009	2.20%
Fe 273.955†	1843.9	1.095 mg/L	0.0014	1.095 mg/L	0.0014	0.12%
K 766.490†	8865.7	3.830 mg/L	0.0446	3.830 mg/L	0.0446	1.16%
Mg 279.077†	107327.1	67.81 mg/L	0.314	67.81 mg/L	0.314	0.46%
Mn 257.610†	7616.3	0.1672 mg/L	0.00071	0.1672 mg/L	0.00071	0.42%
Mo 202.031†	109.3	0.00372 mg/L	0.000130	0.00372 mg/L	0.000130	3.51%
Na 589.592†	373781.7	28.54 mg/L	0.037	28.54 mg/L	0.037	0.13%
Na 330.237†	998.6	30.05 mg/L	0.188	30.05 mg/L	0.188	0.63%
Ni 231.604†	-4.0	-0.00081 mg/L	0.000498	-0.00081 mg/L	0.000498	61.52%
Pb 220.353†	-18.9	-0.00211 mg/L	0.000227	-0.00211 mg/L	0.000227	10.78%
Sb 206.836†	0.1	-0.00023 mg/L	0.001320	-0.00023 mg/L	0.001320	570.95%
Se 196.026†	-18.5	-0.01087 mg/L	0.001297	-0.01087 mg/L	0.001297	11.93%
Si 288.158†	19460.7	8.214 mg/L	0.0540	8.214 mg/L	0.0540	0.66%
Sn 189.927†	-82.0	-0.00525 mg/L	0.000945	-0.00525 mg/L	0.000945	17.99%
Sr 421.552†	1573113.1	1.636 mg/L	0.0022	1.636 mg/L	0.0022	0.13%
Ti 334.903†	184.3	0.00232 mg/L	0.000693	0.00232 mg/L	0.000693	29.91%
Tl 190.801†	18.3	0.00675 mg/L	0.001851	0.00675 mg/L	0.001851	27.42%
V 292.402†	86.9	0.00068 mg/L	0.000122	0.00068 mg/L	0.000122	18.02%
Zn 206.200†	-4.3	-0.00091 mg/L	0.000539	-0.00091 mg/L	0.000539	58.92%

Sequence No.: 26
Sample ID: VS80 C TWC
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 315
Date Collected: 11/28/2012 11:27:26 AM
Data Type: Original

Nebulizer Parameters: VS80 C TWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS80 C TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2830546.5	100.2	%	0.14			0.14%
ScR 361.383	375892.4	99.47	%	0.414			0.42%
Ag 328.068†	10.2	0.00005	mg/L	0.000135	0.00005 mg/L	0.000135	249.48%
Al 308.215†	34.5	0.01880	mg/L	0.008051	0.01880 mg/L	0.008051	42.83%
As 188.979†	2.8	0.00098	mg/L	0.001387	0.00098 mg/L	0.001387	141.19%
B 249.677†	8512.7	0.9780	mg/L	0.00570	0.9780 mg/L	0.00570	0.58%
Ba 233.527†	180.0	0.03336	mg/L	0.000784	0.03336 mg/L	0.000784	2.35%
Be 313.042†	17.0	0.00002	mg/L	0.000034	0.00002 mg/L	0.000034	144.92%
Ca 317.933†	105401.9	6.367	mg/L	0.0219	6.367 mg/L	0.0219	0.34%
Cd 228.802†	6.0	0.00018	mg/L	0.000070	0.00018 mg/L	0.000070	39.32%
Co 228.616†	-2.7	-0.00007	mg/L	0.000124	-0.00007 mg/L	0.000124	189.13%
Cr 267.716†	3.8	0.00019	mg/L	0.001137	0.00019 mg/L	0.001137	594.63%
Cu 324.752†	101.8	0.00034	mg/L	0.000124	0.00034 mg/L	0.000124	36.33%
Fe 273.955†	76.3	0.04531	mg/L	0.001413	0.04531 mg/L	0.001413	3.12%
K 766.490†	2909.0	1.257	mg/L	0.0041	1.257 mg/L	0.0041	0.33%
Mg 279.077†	4434.9	2.802	mg/L	0.0267	2.802 mg/L	0.0267	0.95%
Mn 257.610†	388.7	0.00853	mg/L	0.000008	0.00853 mg/L	0.000008	0.10%
Mo 202.031†	45.3	0.00197	mg/L	0.000173	0.00197 mg/L	0.000173	8.80%
Na 589.592†	1028408.3	78.52	mg/L	0.350	78.52 mg/L	0.350	0.45%
Na 330.237†	2644.7	79.57	mg/L	0.686	79.57 mg/L	0.686	0.86%
Ni 231.604†	-2.2	-0.00044	mg/L	0.000628	-0.00044 mg/L	0.000628	143.45%
Pb 220.353†	0.4	0.00005	mg/L	0.001042	0.00005 mg/L	0.001042	>999.9%
Sb 206.836†	0.9	0.00021	mg/L	0.000429	0.00021 mg/L	0.000429	200.22%
Se 196.026†	1.6	0.00094	mg/L	0.004702	0.00094 mg/L	0.004702	501.06%
Si 288.158†	11412.1	4.812	mg/L	0.0281	4.812 mg/L	0.0281	0.58%
Sn 189.927†	-16.6	-0.00303	mg/L	0.000020	-0.00303 mg/L	0.000020	0.66%
Sr 421.552†	103937.8	0.1081	mg/L	0.00038	0.1081 mg/L	0.00038	0.35%
Ti 334.903†	17.0	0.00039	mg/L	0.000645	0.00039 mg/L	0.000645	164.45%
Tl 190.801†	2.8	0.00103	mg/L	0.001619	0.00103 mg/L	0.001619	156.62%
V 292.402†	30.7	0.00024	mg/L	0.000195	0.00024 mg/L	0.000195	82.55%
Zn 206.200†	7.1	0.00151	mg/L	0.000901	0.00151 mg/L	0.000901	59.51%

Sequence No.: 27
 Sample ID: VS80 A-L TWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 316
 Date Collected: 11/28/2012 11:31:43 AM
 Data Type: Original

Nebulizer Parameters: VS80 A-L TWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS80 A-L TWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2846113.1	100.7 %	0.29			0.29%
ScR 361.383	384445.3	101.7 %	0.49			0.48%
Ag 328.068†	6.0	0.00003 mg/L	0.000142	0.00016 mg/L	0.000710	447.28%
Al 308.215†	-6.2	-0.00343 mg/L	0.004496	-0.01717 mg/L	0.022478	130.95%
As 188.979†	14.8	0.00579 mg/L	0.002303	0.02894 mg/L	0.011514	39.78%
B 249.677†	1426.5	0.1639 mg/L	0.00217	0.8194 mg/L	0.01086	1.33%
Ba 233.527†	360.9	0.06689 mg/L	0.000259	0.3344 mg/L	0.00130	0.39%
Be 313.042†	-0.8	-0.00000 mg/L	0.000013	-0.00001 mg/L	0.000066	>999.9%
Ca 317.933†	381135.7	23.02 mg/L	0.091	115.1 mg/L	0.45	0.39%
Cd 228.802†	6.9	0.00017 mg/L	0.000158	0.00084 mg/L	0.000791	94.30%
Co 228.616†	2.0	0.00004 mg/L	0.000040	0.00018 mg/L	0.000201	110.31%
Cr 267.716†	13.9	0.00037 mg/L	0.000553	0.00187 mg/L	0.002766	147.65%
Cu 324.752†	76.3	0.00015 mg/L	0.000107	0.00077 mg/L	0.000536	69.59%
Fe 273.955†	49.4	0.02937 mg/L	0.001176	0.1468 mg/L	0.00588	4.00%
K 766.490†	1625.3	0.7021 mg/L	0.02616	3.511 mg/L	0.1308	3.73%
Mg 279.077†	22316.6	14.10 mg/L	0.071	70.50 mg/L	0.354	0.50%
Mn 257.610†	2100.6	0.04612 mg/L	0.000081	0.2306 mg/L	0.00040	0.17%
Mo 202.031†	50.7	0.00202 mg/L	0.000059	0.01012 mg/L	0.000295	2.92%
Na 589.592†	55029.9	4.202 mg/L	0.0093	21.01 mg/L	0.047	0.22%
Na 330.237†	159.6	4.802 mg/L	0.2598	24.01 mg/L	1.299	5.41%
Ni 231.604†	-7.0	-0.00141 mg/L	0.000523	-0.00705 mg/L	0.002616	37.13%
Pb 220.353†	-10.3	-0.00113 mg/L	0.000810	-0.00564 mg/L	0.004049	71.78%
Sb 206.836†	3.1	0.00073 mg/L	0.002438	0.00363 mg/L	0.012192	335.58%
Se 196.026†	-4.4	-0.00256 mg/L	0.003538	-0.01280 mg/L	0.017692	138.26%
Si 288.158†	4148.7	1.751 mg/L	0.0161	8.756 mg/L	0.0806	0.92%
Sn 189.927†	-44.4	-0.00737 mg/L	0.001379	-0.03685 mg/L	0.006893	18.71%
Sr 421.552†	320036.8	0.3327 mg/L	0.00017	1.664 mg/L	0.0009	0.05%
Ti 334.903†	37.3	0.00043 mg/L	0.000557	0.00217 mg/L	0.002785	128.34%
Tl 190.801†	13.0	0.00470 mg/L	0.000142	0.02352 mg/L	0.000709	3.01%
V 292.402†	8.4	0.00008 mg/L	0.000132	0.00039 mg/L	0.000661	168.85%
Zn 206.200†	2.9	0.00061 mg/L	0.000504	0.00305 mg/L	0.002519	82.68%

Sequence No.: 28
 Sample ID: VS80 A TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 317
 Date Collected: 11/28/2012 11:35:59 AM
 Data Type: Original

Nebulizer Parameters: VS80 A TWC

Analyte Back Pressure Flow
 All 212.0 kPa 0.75 L/min

Mean Data: VS80 A TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2792739.3	98.85 %	%	0.252			
ScR 361.383	373175.7	98.75 %	%	0.288			0.25%
Ag 328.068†	-117.0	-0.00062 mg/L	mg/L	0.000160	-0.00062 mg/L	0.000160	26.03%
Al 308.215†	8.8	0.00469 mg/L	mg/L	0.001292	0.00469 mg/L	0.001292	27.57%
As 188.979†	44.6	0.01492 mg/L	mg/L	0.002437	0.01492 mg/L	0.002437	16.33%
B 249.677†	7031.8	0.8079 mg/L	mg/L	0.00149	0.8079 mg/L	0.00149	0.18%
Ba 233.527†	1789.2	0.3316 mg/L	mg/L	0.00153	0.3316 mg/L	0.00153	0.46%
Be 313.042†	109.9	0.00015 mg/L	mg/L	0.000002	0.00015 mg/L	0.000002	1.43%
Ca 317.933†	1881075.7	113.6 mg/L	mg/L	0.34	113.6 mg/L	0.34	0.30%
Cd 228.802†	20.5	0.00050 mg/L	mg/L	0.000118	0.00050 mg/L	0.000118	23.55%
Co 228.616†	7.1	0.00012 mg/L	mg/L	0.000059	0.00012 mg/L	0.000059	48.92%
Cr 267.716†	55.3	-0.00001 mg/L	mg/L	0.000557	-0.00001 mg/L	0.000557	>999.9%
Cu 324.752†	269.4	0.00037 mg/L	mg/L	0.000042	0.00037 mg/L	0.000042	11.44%
Fe 273.955†	231.3	0.1374 mg/L	mg/L	0.00243	0.1374 mg/L	0.00243	1.77%
K 766.490†	8404.3	3.631 mg/L	mg/L	0.0207	3.631 mg/L	0.0207	0.57%
Mg 279.077†	112300.8	70.95 mg/L	mg/L	0.102	70.95 mg/L	0.102	0.14%
Mn 257.610†	9936.3	0.2182 mg/L	mg/L	0.00048	0.2182 mg/L	0.00048	0.22%
Mo 202.031†	110.3	0.00372 mg/L	mg/L	0.000186	0.00372 mg/L	0.000186	4.99%
Na 589.592†	278046.2	21.23 mg/L	mg/L	0.099	21.23 mg/L	0.099	0.47%
Na 330.237†	741.3	22.30 mg/L	mg/L	0.377	22.30 mg/L	0.377	1.69%
Ni 231.604†	-4.0	-0.00080 mg/L	mg/L	0.000701	-0.00080 mg/L	0.000701	87.42%
Pb 220.353†	-30.1	-0.00330 mg/L	mg/L	0.000360	-0.00330 mg/L	0.000360	10.90%
Sb 206.836†	-6.6	-0.00209 mg/L	mg/L	0.002209	-0.00209 mg/L	0.002209	105.87%
Se 196.026†	-15.8	-0.00930 mg/L	mg/L	0.000494	-0.00930 mg/L	0.000494	5.32%
Si 288.158†	21006.4	8.866 mg/L	mg/L	0.0065	8.866 mg/L	0.0065	0.07%
Sn 189.927†	-85.0	-0.00551 mg/L	mg/L	0.000934	-0.00551 mg/L	0.000934	16.95%
Sr 421.552†	1590337.7	1.653 mg/L	mg/L	0.0061	1.653 mg/L	0.0061	0.37%
Ti 334.903†	186.1	0.00222 mg/L	mg/L	0.000428	0.00222 mg/L	0.000428	19.27%
Tl 190.801†	19.8	0.00718 mg/L	mg/L	0.000921	0.00718 mg/L	0.000921	12.83%
V 292.402†	50.0	0.00044 mg/L	mg/L	0.000081	0.00044 mg/L	0.000081	18.51%
Zn 206.200†	0.9	0.00019 mg/L	mg/L	0.001004	0.00019 mg/L	0.001004	518.43%

Sequence No.: 29
 Sample ID: VS80 ADUP TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 318
 Date Collected: 11/28/2012 11:40:16 AM
 Data Type: Original

Nebulizer Parameters: VS80 ADUP TWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS80 ADUP TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2793279.4	98.87	%	0.197			0.20%
ScR 361.383	372049.1	98.45	%	0.826			0.84%
Ag 328.068†	-122.0	-0.00064	mg/L	0.000202	-0.00064 mg/L	0.000202	31.39%
Al 308.215†	54.7	0.02976	mg/L	0.002474	0.02976 mg/L	0.002474	8.31%
As 188.979†	48.7	0.01689	mg/L	0.000973	0.01689 mg/L	0.000973	5.76%
B 249.677†	7028.2	0.8075	mg/L	0.00814	0.8075 mg/L	0.00814	1.01%
Ba 233.527†	1770.2	0.3281	mg/L	0.00277	0.3281 mg/L	0.00277	0.84%
Be 313.042†	48.0	0.00007	mg/L	0.000011	0.00007 mg/L	0.000011	16.85%
Ca 317.933†	1867181.6	112.8	mg/L	0.50	112.8 mg/L	0.50	0.44%
Cd 228.802†	10.6	0.00018	mg/L	0.000163	0.00018 mg/L	0.000163	92.79%
Co 228.616†	5.2	0.00008	mg/L	0.000187	0.00008 mg/L	0.000187	242.14%
Cr 267.716†	55.3	0.00004	mg/L	0.000783	0.00004 mg/L	0.000783	>999.9%
Cu 324.752†	385.2	0.00079	mg/L	0.000040	0.00079 mg/L	0.000040	5.08%
Fe 273.955†	231.9	0.1377	mg/L	0.00299	0.1377 mg/L	0.00299	2.17%
K 766.490†	8448.9	3.650	mg/L	0.0144	3.650 mg/L	0.0144	0.39%
Mg 279.077†	111572.1	70.49	mg/L	0.570	70.49 mg/L	0.570	0.81%
Mn 257.610†	9936.2	0.2182	mg/L	0.00214	0.2182 mg/L	0.00214	0.98%
Mo 202.031†	109.6	0.00370	mg/L	0.000096	0.00370 mg/L	0.000096	2.61%
Na 589.592†	276114.8	21.08	mg/L	0.105	21.08 mg/L	0.105	0.50%
Na 330.237†	743.2	22.36	mg/L	0.256	22.36 mg/L	0.256	1.14%
Ni 231.604†	-8.1	-0.00163	mg/L	0.000531	-0.00163 mg/L	0.000531	32.64%
Pb 220.353†	-21.9	-0.00240	mg/L	0.000940	-0.00240 mg/L	0.000940	39.15%
Sb 206.836†	-2.0	-0.00082	mg/L	0.001589	-0.00082 mg/L	0.001589	192.95%
Se 196.026†	-13.8	-0.00813	mg/L	0.000694	-0.00813 mg/L	0.000694	8.54%
Si 288.158†	19541.5	8.248	mg/L	0.0722	8.248 mg/L	0.0722	0.88%
Sn 189.927†	-81.0	-0.00469	mg/L	0.000477	-0.00469 mg/L	0.000477	10.17%
Sr 421.552†	1576240.8	1.639	mg/L	0.0086	1.639 mg/L	0.0086	0.52%
Ti 334.903†	187.9	0.00233	mg/L	0.000603	0.00233 mg/L	0.000603	25.82%
Tl 190.801†	14.6	0.00531	mg/L	0.002481	0.00531 mg/L	0.002481	46.74%
V 292.402†	33.0	0.00031	mg/L	0.000025	0.00031 mg/L	0.000025	8.13%
Zn 206.200†	0.4	0.00007	mg/L	0.000508	0.00007 mg/L	0.000508	689.15%

Sequence No.: 30
 Sample ID: VS80 ASPK TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 319
 Date Collected: 11/28/2012 11:44:33 AM
 Data Type: Original

Nebulizer Parameters: VS80 ASPK TWC

Analyte	Back Pressure	Flow
All	212.0 kPa	0.75 L/min

Mean Data: VS80 ASPK TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2774817.8		98.21 %	0.490			0.50%
ScR 361.383	379842.3		100.5 %	0.25			0.25%
Ag 328.068†	103691.4		0.5463 mg/L	0.00469	0.5463 mg/L	0.00469	0.86%
Al 308.215†	3751.5		2.042 mg/L	0.0040	2.042 mg/L	0.0040	0.19%
As 188.979†	4385.8		2.089 mg/L	0.0107	2.089 mg/L	0.0107	0.51%
B 249.677†	7091.1		0.8137 mg/L	0.00100	0.8137 mg/L	0.00100	0.12%
Ba 233.527†	12572.5		2.330 mg/L	0.0093	2.330 mg/L	0.0093	0.40%
Be 313.042†	368739.8		0.5133 mg/L	0.00168	0.5133 mg/L	0.00168	0.33%
Ca 317.933†	2003120.8		121.0 mg/L	1.00	121.0 mg/L	1.00	0.82%
Cd 228.802†	17153.3		0.5267 mg/L	0.00269	0.5267 mg/L	0.00269	0.51%
Co 228.616†	21548.8		0.4897 mg/L	0.00220	0.4897 mg/L	0.00220	0.45%
Cr 267.716†	3921.1		0.5004 mg/L	0.00040	0.5004 mg/L	0.00040	0.08%
Cu 324.752†	148469.4		0.5313 mg/L	0.00362	0.5313 mg/L	0.00362	0.68%
Fe 273.955†	3621.8		2.148 mg/L	0.0060	2.148 mg/L	0.0060	0.28%
K 766.490†	32230.2		13.92 mg/L	0.071	13.92 mg/L	0.071	0.51%
Mg 279.077†	123627.1		78.11 mg/L	0.191	78.11 mg/L	0.191	0.24%
Mn 257.610†	31638.8		0.6957 mg/L	0.00189	0.6957 mg/L	0.00189	0.27%
Mo 202.031†	119.0		0.00401 mg/L	0.000109	0.00401 mg/L	0.000109	2.71%
Na 589.592†	410109.8		31.31 mg/L	0.243	31.31 mg/L	0.243	0.78%
Na 330.237†	1096.3		32.82 mg/L	0.222	32.82 mg/L	0.222	0.68%
Ni 231.604†	2437.2		0.4879 mg/L	0.00064	0.4879 mg/L	0.00064	0.13%
Pb 220.353†	18302.6		2.012 mg/L	0.0130	2.012 mg/L	0.0130	0.64%
Sb 206.836†	20.8		0.00024 mg/L	0.001277	0.00024 mg/L	0.001277	541.86%
Se 196.026†	3482.2		2.045 mg/L	0.0071	2.045 mg/L	0.0071	0.35%
Si 288.158†	19575.7		8.266 mg/L	0.0263	8.266 mg/L	0.0263	0.32%
Sn 189.927†	-89.3		-0.00551 mg/L	0.001407	-0.00551 mg/L	0.001407	25.51%
Sr 421.552†	2054741.3		2.136 mg/L	0.0149	2.136 mg/L	0.0149	0.70%
Ti 334.903†	203.9		0.00250 mg/L	0.000447	0.00250 mg/L	0.000447	17.88%
Tl 190.801†	5474.7		1.979 mg/L	0.0095	1.979 mg/L	0.0095	0.48%
V 292.402†	67777.7		0.5181 mg/L	0.00374	0.5181 mg/L	0.00374	0.72%
Zn 206.200†	2288.5		0.4890 mg/L	0.00322	0.4890 mg/L	0.00322	0.66%

Sequence No.: 31
Sample ID: ~~VS80 APOST TWC~~
Analyst: BA
Dilution: 1.000000X

BA
11/29/12

Autosampler Location: 320
Date Collected: 11/28/2012 11:48:52 AM
Data Type: Original

Nebulizer Parameters: VS80 APOST TWC

Analyte Back Pressure Flow
All 214.0 kPa 0.75 L/min

Mean Data: VS80 APOST TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2757102.0	97.59	%	0.440				0.45%
ScR 361.383	375931.4	99.48	%	0.452				0.45%
Ag 328.068†	95993.5	0.5057	mg/L	0.00197	0.5057	mg/L	0.00197	0.39%
Al 308.215†	3769.8	2.052	mg/L	0.0084	2.052	mg/L	0.0084	0.41%
As 188.979†	4301.2	2.049	mg/L	0.0170	2.049	mg/L	0.0170	0.83%
B 249.677†	7085.1	0.8130	mg/L	0.00343	0.8130	mg/L	0.00343	0.42%
Ba 233.527†	12555.7	2.327	mg/L	0.0132	2.327	mg/L	0.0132	0.57%
Be 313.042†	367949.7	0.5122	mg/L	0.00119	0.5122	mg/L	0.00119	0.23%
Ca 317.933†	2023402.5	122.2	mg/L	1.07	122.2	mg/L	1.07	0.88%
Cd 228.802†	16912.5	0.5194	mg/L	0.00266	0.5194	mg/L	0.00266	0.51%
Co 228.616†	21249.0	0.4829	mg/L	0.00131	0.4829	mg/L	0.00131	0.27%
Cr 267.716†	3928.1	0.5013	mg/L	0.00283	0.5013	mg/L	0.00283	0.56%
Cu 324.752†	146417.1	0.5239	mg/L	0.00230	0.5239	mg/L	0.00230	0.44%
Fe 273.955†	3632.4	2.154	mg/L	0.0144	2.154	mg/L	0.0144	0.67%
K 766.490†	31907.5	13.78	mg/L	0.055	13.78	mg/L	0.055	0.40%
Mg 279.077†	124238.0	78.50	mg/L	0.356	78.50	mg/L	0.356	0.45%
Mn 257.610†	31553.2	0.6938	mg/L	0.00336	0.6938	mg/L	0.00336	0.48%
Mo 202.031†	129.6	0.00447	mg/L	0.000136	0.00447	mg/L	0.000136	3.04%
Na 589.592†	409345.3	31.25	mg/L	0.244	31.25	mg/L	0.244	0.78%
Na 330.237†	1082.1	32.40	mg/L	0.428	32.40	mg/L	0.428	1.32%
Ni 231.604†	2434.2	0.4873	mg/L	0.00429	0.4873	mg/L	0.00429	0.88%
Pb 220.353†	18011.6	1.980	mg/L	0.0105	1.980	mg/L	0.0105	0.53%
Sb 206.836†	19.2	-0.00023	mg/L	0.000635	-0.00023	mg/L	0.000635	274.87%
Se 196.026†	3451.4	2.027	mg/L	0.0118	2.027	mg/L	0.0118	0.58%
Si 288.158†	21113.9	8.914	mg/L	0.0565	8.914	mg/L	0.0565	0.63%
Sn 189.927†	-87.4	-0.00493	mg/L	0.001981	-0.00493	mg/L	0.001981	40.19%
Sr 421.552†	2070264.0	2.152	mg/L	0.0192	2.152	mg/L	0.0192	0.89%
Ti 334.903†	195.4	0.00209	mg/L	0.000461	0.00209	mg/L	0.000461	22.01%
Tl 190.801†	5374.3	1.943	mg/L	0.0083	1.943	mg/L	0.0083	0.43%
V 292.402†	67003.0	0.5122	mg/L	0.00242	0.5122	mg/L	0.00242	0.47%
Zn 206.200†	2293.4	0.4901	mg/L	0.00347	0.4901	mg/L	0.00347	0.71%

Sequence No.: 32
 Sample ID: VS80 MB1SPK TWC
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 321
 Date Collected: 11/28/2012 11:53:11 AM
 Data Type: Original

Nebulizer Parameters: VS80 MB1SPK TWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS80 MB1SPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2837448.0	100.4	%	0.21				0.21%
ScR 361.383	375148.3	99.27	%	0.583				0.59%
Ag 328.068†	101727.7	0.5359	mg/L	0.00126	0.5359	mg/L	0.00126	0.23%
Al 308.215†	3839.8	2.090	mg/L	0.0066	2.090	mg/L	0.0066	0.32%
As 188.979†	4299.1	2.054	mg/L	0.0076	2.054	mg/L	0.0076	0.37%
B 249.677†	45.2	0.00414	mg/L	0.001664	0.00414	mg/L	0.001664	40.15%
Ba 233.527†	11245.1	2.084	mg/L	0.0066	2.084	mg/L	0.0066	0.32%
Be 313.042†	373746.4	0.5203	mg/L	0.00252	0.5203	mg/L	0.00252	0.48%
Ca 317.933†	168540.4	10.18	mg/L	0.035	10.18	mg/L	0.035	0.34%
Cd 228.802†	16940.7	0.5203	mg/L	0.00064	0.5203	mg/L	0.00064	0.12%
Co 228.616†	22363.0	0.5082	mg/L	0.00118	0.5082	mg/L	0.00118	0.23%
Cr 267.716†	4025.9	0.5209	mg/L	0.00229	0.5209	mg/L	0.00229	0.44%
Cu 324.752†	146625.0	0.5253	mg/L	0.00047	0.5253	mg/L	0.00047	0.09%
Fe 273.955†	3548.1	2.104	mg/L	0.0113	2.104	mg/L	0.0113	0.54%
K 766.490†	23906.1	10.33	mg/L	0.065	10.33	mg/L	0.065	0.63%
Mg 279.077†	16814.4	10.62	mg/L	0.042	10.62	mg/L	0.042	0.39%
Mn 257.610†	23425.1	0.5154	mg/L	0.00226	0.5154	mg/L	0.00226	0.44%
Mo 202.031†	34.0	0.00139	mg/L	0.000319	0.00139	mg/L	0.000319	23.00%
Na 589.592†	135127.8	10.32	mg/L	0.003	10.32	mg/L	0.003	0.02%
Na 330.237†	370.4	10.97	mg/L	0.119	10.97	mg/L	0.119	1.08%
Ni 231.604†	2582.6	0.5171	mg/L	0.00410	0.5171	mg/L	0.00410	0.79%
Pb 220.353†	18587.3	2.044	mg/L	0.0046	2.044	mg/L	0.0046	0.23%
Sb 206.836†	25.1	0.00135	mg/L	0.001603	0.00135	mg/L	0.001603	118.49%
Se 196.026†	3476.7	2.042	mg/L	0.0104	2.042	mg/L	0.0104	0.51%
Si 288.158†	27.6	0.01486	mg/L	0.003042	0.01486	mg/L	0.003042	20.46%
Sn 189.927†	-22.4	-0.00381	mg/L	0.000221	-0.00381	mg/L	0.000221	5.79%
Sr 421.552†	501775.7	0.5217	mg/L	0.00140	0.5217	mg/L	0.00140	0.27%
Ti 334.903†	14.2	-0.00001	mg/L	0.000286	-0.00001	mg/L	0.000286	>999.9%
Tl 190.801†	5626.5	2.034	mg/L	0.0025	2.034	mg/L	0.0025	0.12%
V 292.402†	67833.4	0.5185	mg/L	0.00184	0.5185	mg/L	0.00184	0.36%
Zn 206.200†	2422.5	0.5177	mg/L	0.00202	0.5177	mg/L	0.00202	0.39%

Sequence No.: 33
 Sample ID: CV 4
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 11:57:13 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected			Std.Dev.	Sample		RSD
	Intensity	Conc.	Calib. Units		Conc.	Units	
ScA 357.253	2791344.4	98.80	%	0.264			0.27%
ScR 361.383	368412.4	97.49	%	0.285			0.29%
Ag 328.068†	199088.9	1.049	mg/L	0.0025	1.049	mg/L	0.24%
Al 308.215†	3858.3	2.072	mg/L	0.0198	2.072	mg/L	0.96%
As 188.979†	4246.9	2.055	mg/L	0.0093	2.055	mg/L	0.45%
B 249.677†	9035.1	1.037	mg/L	0.0110	1.037	mg/L	1.06%
Ba 233.527†	5571.3	1.032	mg/L	0.0131	1.032	mg/L	1.27%
Be 313.042†	732464.8	1.020	mg/L	0.0038	1.020	mg/L	0.37%
Ca 317.933†	35000.4	2.114	mg/L	0.0218	2.114	mg/L	1.03%
Cd 228.802†	33239.7	1.034	mg/L	0.0016	1.034	mg/L	0.15%
Co 228.616†	44342.5	1.006	mg/L	0.0004	1.006	mg/L	0.04%
Cr 267.716†	7970.3	1.033	mg/L	0.0093	1.033	mg/L	0.90%
Cu 324.752†	290250.1	1.039	mg/L	0.0042	1.039	mg/L	0.40%
Fe 273.955†	3583.7	2.121	mg/L	0.0087	2.121	mg/L	0.41%
K 766.490†	47843.4	20.67	mg/L	0.033	20.67	mg/L	0.16%
Mg 279.077†	3295.8	2.090	mg/L	0.0199	2.090	mg/L	0.95%
Mn 257.610†	47213.9	1.039	mg/L	0.0063	1.039	mg/L	0.61%
Mo 202.031†	23592.0	1.059	mg/L	0.0029	1.059	mg/L	0.28%
Na 589.592†	685263.5	52.32	mg/L	0.051	52.32	mg/L	0.10%
Na 330.237†	1792.6	53.82	mg/L	0.273	53.82	mg/L	0.51%
Ni 231.604†	5135.0	1.030	mg/L	0.0060	1.030	mg/L	0.58%
Pb 220.353†	19150.7	2.106	mg/L	0.0072	2.106	mg/L	0.34%
Sb 206.836†	7973.4	2.175	mg/L	0.0092	2.175	mg/L	0.42%
Se 196.026†	3438.9	2.019	mg/L	0.0124	2.019	mg/L	0.62%
Si 288.158†	5072.0	2.138	mg/L	0.0123	2.138	mg/L	0.58%
Sn 189.927†	4578.8	1.055	mg/L	0.0029	1.055	mg/L	0.27%
Sr 421.552†	988576.5	1.028	mg/L	0.0018	1.028	mg/L	0.17%
Ti 334.903†	25520.6	1.048	mg/L	0.0024	1.048	mg/L	0.23%
Tl 190.801†	5597.2	2.020	mg/L	0.0057	2.020	mg/L	0.28%
V 292.402†	135772.1	1.038	mg/L	0.0020	1.038	mg/L	0.19%
Zn 206.200†	4981.1	1.064	mg/L	0.0099	1.064	mg/L	0.93%

Sequence No.: 34
 Sample ID: CB 4
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 12:01:35 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2810860.1	99.49	%	0.123			0.12%
ScR 361.383	376808.0	99.71	%	0.392			0.39%
Ag 328.068†	-11.1	-0.00006	mg/L	0.000055	-0.00006	0.000055	94.74%
Al 308.215†	6.6	0.00361	mg/L	0.005055	0.00361	0.005055	140.06%
As 188.979†	0.8	0.00036	mg/L	0.001176	0.00036	0.001176	323.96%
B 249.677†	21.0	0.00241	mg/L	0.000571	0.00241	0.000571	23.66%
Ba 233.527†	1.0	0.00019	mg/L	0.000562	0.00019	0.000562	294.09%
Be 313.042†	31.5	0.00004	mg/L	0.000022	0.00004	0.000022	51.29%
Ca 317.933†	26.2	0.00158	mg/L	0.000580	0.00158	0.000580	36.70%
Cd 228.802†	7.4	0.00023	mg/L	0.000087	0.00023	0.000087	37.67%
Co 228.616†	-2.4	-0.00005	mg/L	0.000179	-0.00005	0.000179	334.05%
Cr 267.716†	4.7	0.00061	mg/L	0.000629	0.00061	0.000629	102.51%
Cu 324.752†	56.0	0.00020	mg/L	0.000028	0.00020	0.000028	13.76%
Fe 273.955†	0.8	0.00046	mg/L	0.000400	0.00046	0.000400	86.53%
K 766.490†	-23.2	-0.01004	mg/L	0.013931	-0.01004	0.013931	138.82%
Mg 279.077†	4.3	0.00275	mg/L	0.002341	0.00275	0.002341	85.12%
Mn 257.610†	8.9	0.00020	mg/L	0.000119	0.00020	0.000119	60.96%
Mo 202.031†	20.6	0.00093	mg/L	0.000198	0.00093	0.000198	21.41%
Na 589.592†	129.9	0.00992	mg/L	0.001277	0.00992	0.001277	12.87%
Na 330.237†	8.7	0.2619	mg/L	0.40945	0.2619	0.40945	156.36%
Ni 231.604†	-4.8	-0.00096	mg/L	0.001230	-0.00096	0.001230	128.08%
Pb 220.353†	-0.3	-0.00003	mg/L	0.000917	-0.00003	0.000917	>999.9%
Sb 206.836†	9.4	0.00256	mg/L	0.001330	0.00256	0.001330	51.95%
Se 196.026†	5.6	0.00326	mg/L	0.000972	0.00326	0.000972	29.80%
Si 288.158†	17.4	0.00732	mg/L	0.003756	0.00732	0.003756	51.28%
Sn 189.927†	3.5	0.00080	mg/L	0.000184	0.00080	0.000184	22.85%
Sr 421.552†	123.9	0.00013	mg/L	0.000035	0.00013	0.000035	27.09%
Ti 334.903†	6.1	0.00025	mg/L	0.000516	0.00025	0.000516	205.30%
Tl 190.801†	0.6	0.00021	mg/L	0.001191	0.00021	0.001191	575.94%
V 292.402†	13.0	0.00010	mg/L	0.000094	0.00010	0.000094	92.76%
Zn 206.200†	1.6	0.00034	mg/L	0.000283	0.00034	0.000283	82.49%

Sequence No.: 35
 Sample ID: CRI
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 301
 Date Collected: 11/28/2012 12:05:51 PM
 Data Type: Original

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	213.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2798572.5	99.05 %	0.625			0.63%
ScR 361.383	374740.3	99.16 %	0.233			0.23%
Ag 328.068†	616.1	0.00325 mg/L	0.000253	0.00325 mg/L	0.000253	7.79%
Al 308.215†	103.0	0.05610 mg/L	0.003261	0.05610 mg/L	0.003261	5.81%
As 188.979†	101.9	0.04881 mg/L	0.001751	0.04881 mg/L	0.001751	3.59%
B 249.677†	197.1	0.02264 mg/L	0.000622	0.02264 mg/L	0.000622	2.75%
Ba 233.527†	17.9	0.00331 mg/L	0.000457	0.00331 mg/L	0.000457	13.81%
Be 313.042†	744.3	0.00104 mg/L	0.000019	0.00104 mg/L	0.000019	1.84%
Cd 317.933†	856.6	0.05174 mg/L	0.000656	0.05174 mg/L	0.000656	1.27%
Cd 228.802†	77.2	0.00211 mg/L	0.000090	0.00211 mg/L	0.000090	4.24%
Co 228.616†	151.7	0.00344 mg/L	0.000067	0.00344 mg/L	0.000067	1.95%
Cr 267.716†	40.4	0.00523 mg/L	0.001051	0.00523 mg/L	0.001051	20.09%
Cu 324.752†	606.0	0.00217 mg/L	0.000051	0.00217 mg/L	0.000051	2.36%
Fe 273.955†	88.7	0.05268 mg/L	0.001501	0.05268 mg/L	0.001501	2.85%
K 766.490†	1208.5	0.5221 mg/L	0.01632	0.5221 mg/L	0.01632	3.13%
Mg 279.077†	86.4	0.05460 mg/L	0.001264	0.05460 mg/L	0.001264	2.31%
Mn 257.610†	55.9	0.00123 mg/L	0.000051	0.00123 mg/L	0.000051	4.17%
Mo 202.031†	122.2	0.00548 mg/L	0.000276	0.00548 mg/L	0.000276	5.03%
Na 589.592†	6523.8	0.4981 mg/L	0.00195	0.4981 mg/L	0.00195	0.39%
Na 330.237†	19.9	0.5968 mg/L	0.14387	0.5968 mg/L	0.14387	24.11%
Ni 231.604†	46.0	0.00923 mg/L	0.000860	0.00923 mg/L	0.000860	9.32%
Pb 220.353†	189.2	0.02081 mg/L	0.000484	0.02081 mg/L	0.000484	2.32%
Sb 206.836†	198.8	0.05428 mg/L	0.001040	0.05428 mg/L	0.001040	1.92%
Se 196.026†	86.7	0.05093 mg/L	0.001955	0.05093 mg/L	0.001955	3.84%
Si 288.158†	160.0	0.06741 mg/L	0.000279	0.06741 mg/L	0.000279	0.41%
Sn 189.927†	45.6	0.01052 mg/L	0.000071	0.01052 mg/L	0.000071	0.67%
Sr 421.552†	1027.2	0.00107 mg/L	0.000030	0.00107 mg/L	0.000030	2.80%
Ti 334.903†	120.8	0.00496 mg/L	0.000143	0.00496 mg/L	0.000143	2.89%
Tl 190.801†	142.4	0.05157 mg/L	0.001932	0.05157 mg/L	0.001932	3.75%
V 292.402†	422.7	0.00324 mg/L	0.000135	0.00324 mg/L	0.000135	4.16%
Zn 206.200†	46.9	0.01002 mg/L	0.000558	0.01002 mg/L	0.000558	5.57%

Sequence No.: 36
 Sample ID: ICSA
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 302
 Date Collected: 11/28/2012 12:10:08 PM
 Data Type: Original

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2773898.3	98.18	%	0.361			0.37%
ScR 361.383	368934.8	97.63	%	0.551			0.56%
Ag 328.068†	-235.5	-0.00124	mg/L	0.000132	-0.00124 mg/L	0.000132	10.65%
Al 308.215†	373976.2	204.3	mg/L	0.22	204.3 mg/L	0.22	0.11%
As 188.979†	37.6	0.01214	mg/L	0.000579	0.01214 mg/L	0.000579	4.77%
B 249.677†	-44.1	-0.00507	mg/L	0.003288	-0.00507 mg/L	0.003288	64.87%
Ba 233.527†	158.4	-0.00381	mg/L	0.001554	-0.00381 mg/L	0.001554	40.83%
Be 313.042†	97.0	0.00013	mg/L	0.000011	0.00013 mg/L	0.000011	7.93%
Cd 228.802†	1702305.6	102.8	mg/L	0.67	102.8 mg/L	0.67	0.65%
Co 228.616†	58.9	-0.00019	mg/L	0.000132	-0.00019 mg/L	0.000132	68.38%
Cr 267.716†	72.6	-0.00100	mg/L	0.000195	-0.00100 mg/L	0.000195	19.51%
Cu 324.752†	3.5	-0.00135	mg/L	0.000906	-0.00135 mg/L	0.000906	66.99%
Fc 273.955†	-2240.1	0.00007	mg/L	0.000050	0.00007 mg/L	0.000050	69.27%
K 766.490†	341075.3	202.6	mg/L	1.48	202.6 mg/L	1.48	0.73%
Mg 279.077†	42.7	0.01846	mg/L	0.004429	0.01846 mg/L	0.004429	24.00%
Mn 257.610†	161634.4	102.0	mg/L	0.81	102.0 mg/L	0.81	0.79%
Mo 202.031†	59.3	0.00128	mg/L	0.000223	0.00128 mg/L	0.000223	17.49%
Na 589.592†	73.1	0.00217	mg/L	0.000454	0.00217 mg/L	0.000454	20.91%
Na 330.237†	215.6	0.01646	mg/L	0.001337	0.01646 mg/L	0.001337	8.12%
Ni 231.604†	3.3	0.1000	mg/L	0.14585	0.1000 mg/L	0.14585	145.84%
Pb 220.353†	-8.3	-0.00165	mg/L	0.001382	-0.00165 mg/L	0.001382	83.52%
Sb 206.836†	-413.1	-0.00484	mg/L	0.001030	-0.00484 mg/L	0.001030	21.26%
Se 196.026†	47.6	0.01286	mg/L	0.003023	0.01286 mg/L	0.003023	23.50%
Si 288.158†	19.9	0.01170	mg/L	0.002065	0.01170 mg/L	0.002065	17.65%
Sn 189.927†	-27.3	0.00083	mg/L	0.001059	0.00083 mg/L	0.001059	127.15%
Sr 421.552†	-82.1	-0.00617	mg/L	0.000968	-0.00617 mg/L	0.000968	15.69%
Ti 334.903†	4009.0	0.00417	mg/L	0.000032	0.00417 mg/L	0.000032	0.76%
Tl 190.801†	145.3	0.00106	mg/L	0.000506	0.00106 mg/L	0.000506	47.56%
V 292.402†	-58.7	0.00036	mg/L	0.000826	0.00036 mg/L	0.000826	230.93%
Zn 206.200†	1572.9	0.00489	mg/L	0.000076	0.00489 mg/L	0.000076	1.56%
	9.1	0.00194	mg/L	0.000517	0.00194 mg/L	0.000517	26.63%

Cont.

Sequence No.: 37
 Sample ID: ICSAB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 303
 Date Collected: 11/28/2012 12:14:11 PM
 Data Type: Original

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2777011.0	98.29 %		0.418			0.43%
ScR 361.383	367909.5	97.36 %		0.244			0.25%
Ag 328.068+	202695.7	1.068 mg/L		0.0077	1.068 mg/L	0.0077	0.72%
Al 308.215+	373538.9	204.1 mg/L		0.55	204.1 mg/L	0.55	0.27%
As 188.979+	2183.0	1.037 mg/L		0.0031	1.037 mg/L	0.0031	0.30%
B 249.677+	-25.8	-0.00494 mg/L		0.000793	-0.00494 mg/L	0.000793	16.06%
Ba 233.527+	5742.0	1.031 mg/L		0.0039	1.031 mg/L	0.0039	0.38%
Be 313.042+	739221.2	1.029 mg/L		0.0032	1.029 mg/L	0.0032	0.31%
Ca 317.933+	1712551.4	103.4 mg/L		0.19	103.4 mg/L	0.19	0.19%
Cd 228.802+	32883.9	1.028 mg/L		0.0070	1.028 mg/L	0.0070	0.68%
Co 228.616+	42367.5	0.9605 mg/L		0.00750	0.9605 mg/L	0.00750	0.78%
Cr 267.716+	7995.3	1.034 mg/L		0.0024	1.034 mg/L	0.0024	0.23%
Cu 324.752+	290993.0	1.051 mg/L		0.0074	1.051 mg/L	0.0074	0.70%
Fe 273.955+	342345.3	203.3 mg/L		0.99	203.3 mg/L	0.99	0.48%
K 766.490+	-55.5	-0.02397 mg/L		0.014451	-0.02397 mg/L	0.014451	60.30%
Mg 279.077+	162827.5	102.8 mg/L		0.35	102.8 mg/L	0.35	0.34%
Mn 257.610+	44650.7	0.9820 mg/L		0.00419	0.9820 mg/L	0.00419	0.43%
Mo 202.031+	75.5	0.00222 mg/L		0.000438	0.00222 mg/L	0.000438	19.79%
Na 589.592+	409.0	0.03123 mg/L		0.001603	0.03123 mg/L	0.001603	5.13%
Na 330.237+	7.5	-0.1032 mg/L		0.25245	-0.1032 mg/L	0.25245	244.70%
Ni 231.604+	5008.0	1.004 mg/L		0.0039	1.004 mg/L	0.0039	0.39%
Pb 220.353+	8825.7	1.011 mg/L		0.0032	1.011 mg/L	0.0032	0.31%
Sb 206.836+	3924.5	1.060 mg/L		0.0032	1.060 mg/L	0.0032	0.31%
Se 196.026+	1744.4	1.024 mg/L		0.0049	1.024 mg/L	0.0049	0.48%
Si 288.158+	-30.4	0.00335 mg/L		0.000175	0.00335 mg/L	0.000175	5.20%
Sn 189.927+	-90.0	-0.00738 mg/L		0.001262	-0.00738 mg/L	0.001262	17.09%
Sr 421.552+	4018.0	0.00418 mg/L	Contr.	0.000031	0.00418 mg/L	0.000031	0.74%
Ti 334.903+	159.6	0.00142 mg/L		0.000245	0.00142 mg/L	0.000245	17.27%
Tl 190.801+	2585.8	0.9493 mg/L		0.00076	0.9493 mg/L	0.00076	0.08%
V 292.402+	134155.9	1.019 mg/L		0.0081	1.019 mg/L	0.0081	0.80%
Zn 206.200+	4697.7	1.004 mg/L		0.0009	1.004 mg/L	0.0009	0.09%

Sequence No.: 38
 Sample ID: CV 5
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 12:18:15 PM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2840170.5	100.5 %	0.37			0.37%
ScR 361.383	375603.6	99.39 %	0.738			0.74%
Ag 328.068†	198314.7	1.045 mg/L	0.0071	1.045 mg/L	0.0071	0.68%
Al 308.215†	3878.5	2.083 mg/L	0.0313	2.083 mg/L	0.0313	1.50%
As 188.979†	4273.2	2.068 mg/L	0.0183	2.068 mg/L	0.0183	0.89%
B 249.677†	8946.6	1.027 mg/L	0.0107	1.027 mg/L	0.0107	1.04%
Ba 233.527†	5583.2	1.034 mg/L	0.0153	1.034 mg/L	0.0153	1.48%
Be 313.042†	738216.5	1.028 mg/L	0.0069	1.028 mg/L	0.0069	0.67%
Ca 317.933†	35342.1	2.135 mg/L	0.0298	2.135 mg/L	0.0298	1.40%
Cd 228.802†	33244.5	1.034 mg/L	0.0076	1.034 mg/L	0.0076	0.74%
Co 228.616†	44621.8	1.012 mg/L	0.0068	1.012 mg/L	0.0068	0.68%
Cr 267.716†	7935.5	1.028 mg/L	0.0140	1.028 mg/L	0.0140	1.37%
Cu 324.752†	287829.3	1.031 mg/L	0.0071	1.031 mg/L	0.0071	0.69%
Fe 273.955†	3632.5	2.150 mg/L	0.0353	2.150 mg/L	0.0353	1.64%
K 766.490†	47674.5	20.60 mg/L	0.144	20.60 mg/L	0.144	0.70%
Mg 279.077†	3309.9	2.099 mg/L	0.0330	2.099 mg/L	0.0330	1.57%
Mn 257.610†	46995.9	1.034 mg/L	0.0133	1.034 mg/L	0.0133	1.29%
Mo 202.031†	23597.0	1.059 mg/L	0.0063	1.059 mg/L	0.0063	0.60%
Na 589.592†	682075.5	52.08 mg/L	0.313	52.08 mg/L	0.313	0.60%
Na 330.237†	1762.9	52.92 mg/L	0.473	52.92 mg/L	0.473	0.89%
Ni 231.604†	5181.2	1.039 mg/L	0.0101	1.039 mg/L	0.0101	0.97%
Pb 220.353†	19276.9	2.120 mg/L	0.0173	2.120 mg/L	0.0173	0.81%
Sb 206.836†	7983.2	2.178 mg/L	0.0187	2.178 mg/L	0.0187	0.86%
Se 196.026†	3467.0	2.036 mg/L	0.0110	2.036 mg/L	0.0110	0.54%
Si 288.158†	5020.9	2.116 mg/L	0.0263	2.116 mg/L	0.0263	1.24%
Sn 189.927†	4606.5	1.061 mg/L	0.0082	1.061 mg/L	0.0082	0.77%
Sr 421.552†	983034.5	1.022 mg/L	0.0053	1.022 mg/L	0.0053	0.52%
Ti 334.903†	25510.0	1.048 mg/L	0.0048	1.048 mg/L	0.0048	0.46%
Tl 190.801†	5606.8	2.023 mg/L	0.0130	2.023 mg/L	0.0130	0.64%
V 292.402†	135740.9	1.038 mg/L	0.0066	1.038 mg/L	0.0066	0.64%
Zn 206.200†	5060.3	1.081 mg/L	0.0137	1.081 mg/L	0.0137	1.26%

Sequence No.: 39
 Sample ID: CB 5
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 12:22:36 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2856227.2	101.1	%	0.94			0.93%
ScR 361.383	379617.8	100.5	%	0.72			0.72%
Ag 328.068†	31.3	0.00016	mg/L	0.000037	0.00016 mg/L	0.000037	22.23%
Al 308.215†	15.6	0.00848	mg/L	0.003850	0.00848 mg/L	0.003850	45.42%
As 188.979†	-2.0	-0.00092	mg/L	0.002155	-0.00092 mg/L	0.002155	234.37%
B 249.677†	24.3	0.00279	mg/L	0.000490	0.00279 mg/L	0.000490	17.52%
Ba 233.527†	2.6	0.00048	mg/L	0.000612	0.00048 mg/L	0.000612	126.94%
Be 313.042†	75.7	0.00011	mg/L	0.000030	0.00011 mg/L	0.000030	28.84%
Ca 317.933†	30.2	0.00182	mg/L	0.000406	0.00182 mg/L	0.000406	22.27%
Cd 228.802†	0.9	0.00004	mg/L	0.000141	0.00004 mg/L	0.000141	398.76%
Co 228.616†	3.8	0.00008	mg/L	0.000053	0.00008 mg/L	0.000053	63.48%
Cr 267.716†	3.2	0.00041	mg/L	0.000572	0.00041 mg/L	0.000572	139.59%
Cu 324.752†	45.8	0.00016	mg/L	0.000156	0.00016 mg/L	0.000156	95.22%
Fe 273.955†	6.4	0.00378	mg/L	0.002793	0.00378 mg/L	0.002793	73.80%
K 766.490†	13.0	0.00561	mg/L	0.015015	0.00561 mg/L	0.015015	267.41%
Mg 279.077†	6.6	0.00419	mg/L	0.004766	0.00419 mg/L	0.004766	113.69%
Mn 257.610†	9.4	0.00021	mg/L	0.000132	0.00021 mg/L	0.000132	63.60%
Mo 202.031†	24.1	0.00108	mg/L	0.000100	0.00108 mg/L	0.000100	9.22%
Na 589.592†	128.0	0.00977	mg/L	0.003280	0.00977 mg/L	0.003280	33.56%
Na 330.237†	7.1	0.2132	mg/L	0.20865	0.2132 mg/L	0.20865	97.84%
Ni 231.604†	-0.8	-0.00015	mg/L	0.001529	-0.00015 mg/L	0.001529	>999.9%
Pb 220.353†	2.0	0.00022	mg/L	0.001051	0.00022 mg/L	0.001051	469.62%
Sb 206.836†	3.3	0.00088	mg/L	0.001163	0.00088 mg/L	0.001163	132.23%
Se 196.026†	10.3	0.00605	mg/L	0.001481	0.00605 mg/L	0.001481	24.47%
Si 288.158†	5.5	0.00233	mg/L	0.001572	0.00233 mg/L	0.001572	67.45%
Sn 189.927†	-3.2	-0.00075	mg/L	0.000497	-0.00075 mg/L	0.000497	66.60%
Sr 421.552†	93.2	0.00010	mg/L	0.000040	0.00010 mg/L	0.000040	41.15%
Ti 334.903†	18.2	0.00075	mg/L	0.000464	0.00075 mg/L	0.000464	62.06%
Tl 190.801†	3.7	0.00133	mg/L	0.001946	0.00133 mg/L	0.001946	146.34%
V 292.402†	20.5	0.00016	mg/L	0.000150	0.00016 mg/L	0.000150	94.95%
Zn 206.200†	-0.0	-0.00001	mg/L	0.000172	-0.00001 mg/L	0.000172	>999.9%

Sequence No.: 40
 Sample ID: VS82 MB1 SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 322
 Date Collected: 11/28/2012 12:26:52 PM
 Data Type: Original

Nebulizer Parameters: VS82 MB1 SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2877465.6	101.8 %	%	0.41			0.40%
ScR 361.383	384633.2	101.8 %	%	0.52			0.51%
Ag 328.068†	23.6	0.00012 mg/L	mg/L	0.000111	0.00025 mg/L	0.000222	89.34%
Al 308.215†	19.1	0.01042 mg/L	mg/L	0.007586	0.02085 mg/L	0.015173	72.79%
As 188.979†	-0.4	-0.00015 mg/L	mg/L	0.000506	-0.00030 mg/L	0.001011	339.18%
B 249.677†	11.0	0.00127 mg/L	mg/L	0.000856	0.00253 mg/L	0.001712	67.66%
Ba 233.527†	-0.9	-0.00017 mg/L	mg/L	0.000520	-0.00035 mg/L	0.001039	301.19%
Be 313.042†	44.1	0.00006 mg/L	mg/L	0.000006	0.00012 mg/L	0.000012	9.75%
Ca 317.933†	401.8	0.02427 mg/L	mg/L	0.000601	0.04854 mg/L	0.001203	2.48%
Cd 228.802†	3.3	0.00011 mg/L	mg/L	0.000114	0.00021 mg/L	0.000229	108.09%
Co 228.616†	-2.5	-0.00006 mg/L	mg/L	0.000105	-0.00012 mg/L	0.000211	181.52%
Cr 267.716†	1.0	0.00013 mg/L	mg/L	0.000205	0.00026 mg/L	0.000409	157.04%
Cu 324.752†	25.3	0.00009 mg/L	mg/L	0.000069	0.00018 mg/L	0.000137	75.93%
Fe 273.955†	3.7	0.00220 mg/L	mg/L	0.002152	0.00440 mg/L	0.004305	97.74%
K 766.490†	2.9	0.00127 mg/L	mg/L	0.016544	0.00254 mg/L	0.033089	>999.9%
Mg 279.077†	11.9	0.00755 mg/L	mg/L	0.000338	0.01509 mg/L	0.000676	4.48%
Mn 257.610†	12.1	0.00027 mg/L	mg/L	0.000169	0.00053 mg/L	0.000337	63.54%
Mo 202.031†	6.1	0.00027 mg/L	mg/L	0.000326	0.00055 mg/L	0.000651	118.71%
Na 589.592†	142.0	0.01084 mg/L	mg/L	0.005046	0.02168 mg/L	0.010092	46.55%
Na 330.237†	8.4	0.2529 mg/L	mg/L	0.39204	0.5057 mg/L	0.78408	155.04%
Ni 231.604†	5.6	0.00113 mg/L	mg/L	0.001806	0.00225 mg/L	0.003612	160.53%
Pb 220.353†	-1.3	-0.00014 mg/L	mg/L	0.000432	-0.00028 mg/L	0.000863	309.65%
Sb 206.836†	-4.2	-0.00116 mg/L	mg/L	0.001545	-0.00231 mg/L	0.003091	133.56%
Se 196.026†	8.9	0.00521 mg/L	mg/L	0.003150	0.01042 mg/L	0.006299	60.44%
Si 288.158†	0.3	0.00011 mg/L	mg/L	0.005322	0.00023 mg/L	0.010644	>999.9%
Sn 189.927†	0.9	0.00021 mg/L	mg/L	0.000390	0.00041 mg/L	0.000780	189.25%
Sr 421.552†	102.3	0.00011 mg/L	mg/L	0.000009	0.00021 mg/L	0.000019	8.82%
Ti 334.903†	26.2	0.00108 mg/L	mg/L	0.000802	0.00215 mg/L	0.001605	74.60%
Tl 190.801†	1.3	0.00049 mg/L	mg/L	0.001176	0.00097 mg/L	0.002352	242.41%
V 292.402†	16.8	0.00013 mg/L	mg/L	0.000075	0.00026 mg/L	0.000149	58.44%
Zn 206.200†	16.4	0.00351 mg/L	mg/L	0.000370	0.00702 mg/L	0.000739	10.53%

Sequence No.: 41
 Sample ID: VS82 A SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 323
 Date Collected: 11/28/2012 12:31:10 PM
 Data Type: Original

Del

 Nebulizer Parameters: VS82 A SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

 Mean Data: VS82 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2555327.7	90.44	%	0.312				0.35%
ScR 361.383	353079.6	93.43	%	0.615				0.66%
Ag 328.068†	-1784.8	-0.00938	mg/L	0.000145	-0.01877	mg/L	0.000289	1.54%
Al 308.215†	24077.2	13.15	mg/L	0.018	26.30	mg/L	0.037	0.14%
As 188.979†	61.2	-0.06619	mg/L	0.002296	-0.1324	mg/L	0.00459	3.47%
B 249.677†	261.3	0.03001	mg/L	0.000388	0.06003	mg/L	0.000776	1.29%
Ba 233.527†	631.6	0.1132	mg/L	0.00081	0.2264	mg/L	0.00162	0.71%
Be 313.042†	379.5	0.00050	mg/L	0.000014	0.00100	mg/L	0.000028	2.75%
Ca 317.933†	38000627.9	2295	mg/L	4.19	4591	mg/L	8.39	0.18%
Cd 228.802†	226.2	0.00673	mg/L	0.000137	0.01347	mg/L	0.000274	2.03%
Co 228.616†	486.4	0.00816	mg/L	0.000091	0.01632	mg/L	0.000182	1.12%
Cr 267.716†	313.8	0.01798	mg/L	0.000296	0.03596	mg/L	0.000591	1.64%
Cu 324.752†	7231.5	0.02643	mg/L	0.000020	0.05286	mg/L	0.000040	0.08%
Fe 273.955†	39652.0	23.55	mg/L	0.129	47.11	mg/L	0.257	0.55%
K 766.490†	7743.5	3.345	mg/L	0.0116	6.691	mg/L	0.0232	0.35%
Mg 279.077†	44246.8	27.94	mg/L	0.035	55.89	mg/L	0.070	0.12%
Mn 257.610†	67147.3	1.470	mg/L	0.0058	2.940	mg/L	0.0116	0.39%
Mo 202.031†	294.3	-0.01161	mg/L	0.000092	-0.02321	mg/L	0.000183	0.79%
Na 589.592†	665758.3	50.83	mg/L	0.153	101.7	mg/L	0.31	0.30%
Na 330.237†	1680.3	50.83	mg/L	0.401	101.7	mg/L	0.80	0.79%
Ni 231.604†	171.4	0.03437	mg/L	0.000153	0.06873	mg/L	0.000306	0.44%
Pb 220.353†	-12.8	0.00082	mg/L	0.001732	0.00163	mg/L	0.003463	212.28%
Sb 206.836†	-3.4	-0.00147	mg/L	0.000158	-0.00294	mg/L	0.000316	10.75%
Se 196.026†	-50.3	-0.02961	mg/L	0.005007	-0.05922	mg/L	0.010013	16.91%
Si 288.158†	4290.6	1.813	mg/L	0.0149	3.626	mg/L	0.0298	0.82%
Sn 189.927†	-360.0	0.2013	mg/L	0.00123	0.4025	mg/L	0.00245	0.61%
Sr 421.552†	21880581.4	22.75	mg/L	0.161	45.50	mg/L	0.321	0.71%
Ti 334.903†	32473.6	1.226	mg/L	0.0005	2.451	mg/L	0.0011	0.04%
Tl 190.801†	29.5	0.01293	mg/L	0.002756	0.02587	mg/L	0.005513	21.31%
V 292.402†	7322.4	0.05456	mg/L	0.000333	0.1091	mg/L	0.00067	0.61%
Zn 206.200†	362.9	0.07752	mg/L	0.000456	0.1550	mg/L	0.00091	0.59%

Sequence No.: 42
Sample ID: VS82 B SWC
Analyst: BA
Dilution: 2.000000X

Del

Autosampler Location: 324
Date Collected: 11/28/2012 12:35:41 PM
Data Type: Original

Nebulizer Parameters: VS82 B SWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS82 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2574166.6	91.11 %	%	0.191			0.21%
ScR 361.383	354315.0	93.76 %	%	0.646			0.69%
Ag 328.068†	-1556.2	-0.00815 mg/L	mg/L	0.000741	-0.01630 mg/L	0.001483	9.09%
Al 308.215†	67505.3	36.87 mg/L	mg/L	0.161	73.74 mg/L	0.322	0.44%
As 188.979†	-0.8	-0.04040 mg/L	mg/L	0.006146	-0.08079 mg/L	0.012291	15.21%
B 249.677†	428.5	0.04920 mg/L	mg/L	0.001433	0.09840 mg/L	0.002865	2.91%
Ba 233.527†	722.7	0.1166 mg/L	mg/L	0.00126	0.2333 mg/L	0.00252	1.08%
Be 313.042†	628.8	0.00082 mg/L	mg/L	0.000020	0.00163 mg/L	0.000040	2.47%
Ca 317.933†	30630158.3	1850 mg/L	mg/L	5.09	3700 mg/L	10.18	0.28%
Cd 228.802†	270.1	0.00760 mg/L	mg/L	0.000108	0.01519 mg/L	0.000216	1.42%
Co 228.616†	1070.4	0.01836 mg/L	mg/L	0.000155	0.03672 mg/L	0.000310	0.84%
Cr 267.716†	936.2	0.1050 mg/L	mg/L	0.00102	0.2100 mg/L	0.00204	0.97%
Cu 324.752†	16908.1	0.06441 mg/L	mg/L	0.000283	0.1288 mg/L	0.000057	0.44%
Fe 273.955†	177478.5	105.4 mg/L	mg/L	0.46	210.8 mg/L	0.92	0.44%
K 766.490†	11000.9	4.753 mg/L	mg/L	0.0273	9.505 mg/L	0.0547	0.58%
Mg 279.077†	61234.2	38.63 mg/L	mg/L	0.176	77.27 mg/L	0.351	0.45%
Mn 257.610†	85960.5	1.885 mg/L	mg/L	0.0065	3.771 mg/L	0.0130	0.34%
Mo 202.031†	297.2	-0.00666 mg/L	mg/L	0.000378	-0.01333 mg/L	0.000756	5.67%
Na 589.592†	657049.1	50.17 mg/L	mg/L	0.161	100.3 mg/L	0.32	0.32%
Na 330.237†	1671.0	50.74 mg/L	mg/L	0.347	101.5 mg/L	0.69	0.68%
Ni 231.604†	531.0	0.1065 mg/L	mg/L	0.00080	0.2130 mg/L	0.00160	0.75%
Pb 220.353†	137.6	0.01975 mg/L	mg/L	0.000471	0.03950 mg/L	0.000943	2.39%
Sb 206.836†	14.7	0.00325 mg/L	mg/L	0.000500	0.00651 mg/L	0.001000	15.37%
Se 196.026†	-44.4	-0.02621 mg/L	mg/L	0.003099	-0.05242 mg/L	0.006198	11.82%
Si 288.158†	12005.7	5.067 mg/L	mg/L	0.0241	10.13 mg/L	0.048	0.48%
Sn 189.927†	-307.9	0.1583 mg/L	mg/L	0.00081	0.3167 mg/L	0.00162	0.51%
Sr 421.552†	17285820.9	17.97 mg/L	mg/L	0.048	35.94 mg/L	0.095	0.27%
Ti 334.903†	57646.7	2.282 mg/L	mg/L	0.0101	4.563 mg/L	0.0202	0.44%
Tl 190.801†	-14.3	0.00537 mg/L	mg/L	0.002346	0.01073 mg/L	0.004691	43.70%
V 292.402†	20789.7	0.1540 mg/L	mg/L	0.00012	0.3081 mg/L	0.00025	0.08%
Zn 206.200†	1081.1	0.2310 mg/L	mg/L	0.00141	0.4620 mg/L	0.00283	0.61%

Sequence No.: 43
Sample ID: VS82 D SWC
Analyst: BA
Dilution: 2.000000X

Del

Autosampler Location: 325
Date Collected: 11/28/2012 12:40:15 PM
Data Type: Original

Nebulizer Parameters: VS82 D SWC

Analyte Back Pressure Flow
All 214.0 kPa 0.75 L/min

Mean Data: VS82 D SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2667076.5	94.40	%	0.110			0.12%
ScR 361.383	363932.1	96.30	%	0.190			0.20%
Ag 328.068†	-1200.9	-0.00627	mg/L	0.000113	-0.01254 mg/L	0.000225	1.80%
Al 308.215†	102078.1	55.76	mg/L	0.132	111.5 mg/L	0.26	0.24%
As 188.979†	-64.6	-0.01875	mg/L	0.003925	-0.03751 mg/L	0.007849	20.93%
B 249.677†	339.7	0.03896	mg/L	0.000868	0.07792 mg/L	0.001736	2.23%
Ba 233.527†	822.2	0.1376	mg/L	0.00157	0.2751 mg/L	0.00314	1.14%
Be 313.042†	816.4	0.00106	mg/L	0.000006	0.00212 mg/L	0.000012	0.58%
Ca 317.933†	21567844.3	1303	mg/L	9.45	2606 mg/L	18.91	0.73%
Cd 228.802†	1718.5	0.05363	mg/L	0.000306	0.1073 mg/L	0.00061	0.57%
Co 228.616†	1565.6	0.02843	mg/L	0.000458	0.05687 mg/L	0.000916	1.61%
Cr 267.716†	1435.2	0.1737	mg/L	0.00116	0.3475 mg/L	0.00232	0.67%
Cu 324.752†	29662.9	0.1092	mg/L	0.00028	0.2185 mg/L	0.00056	0.26%
Fe 273.955†	151794.8	90.16	mg/L	0.174	180.3 mg/L	0.35	0.19%
K 766.490†	17956.0	7.757	mg/L	0.0202	15.51 mg/L	0.040	0.26%
Mg 279.077†	67950.7	42.89	mg/L	0.084	85.77 mg/L	0.169	0.20%
Mn 257.610†	86776.9	1.905	mg/L	0.0042	3.809 mg/L	0.0085	0.22%
Mo 202.031†	221.7	-0.00414	mg/L	0.000237	-0.00829 mg/L	0.000473	5.71%
Na 589.592†	644283.8	49.19	mg/L	0.229	98.38 mg/L	0.458	0.47%
Na 330.237†	1641.8	50.00	mg/L	0.194	100.0 mg/L	0.39	0.39%
Ni 231.604†	913.2	0.1831	mg/L	0.00050	0.3663 mg/L	0.00101	0.28%
Pb 220.353†	56.9	0.01609	mg/L	0.000861	0.03218 mg/L	0.001723	5.35%
Sb 206.836†	5.3	0.00033	mg/L	0.000666	0.00066 mg/L	0.001333	202.53%
Se 196.026†	-34.9	-0.02061	mg/L	0.002822	-0.04123 mg/L	0.005644	13.69%
Si 288.158†	6088.0	2.573	mg/L	0.0203	5.146 mg/L	0.0406	0.79%
Sn 189.927†	-242.0	0.1059	mg/L	0.00336	0.2118 mg/L	0.00673	3.18%
Sr 421.552†	11614732.5	12.08	mg/L	0.056	24.15 mg/L	0.111	0.46%
Ti 334.903†	74952.3	3.019	mg/L	0.0053	6.039 mg/L	0.0105	0.17%
Tl 190.801†	-11.5	0.00459	mg/L	0.002040	0.00918 mg/L	0.004080	44.45%
V 292.402†	24623.2	0.1836	mg/L	0.00095	0.3672 mg/L	0.00190	0.52%
Zn 206.200†	1369.7	0.2926	mg/L	0.00025	0.5853 mg/L	0.00051	0.09%

Sequence No.: 44
Sample ID: ~~VS82 C-L SWC~~
Analyst: BA
Dilution: 10.000000X

ZZZZZZ
BA
11/29/12

Autosampler Location: 326
Date Collected: 11/28/2012 12:44:42 PM
Data Type: Original

Nebulizer Parameters: VS82 C-L SWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS82 C-L SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2785600.3	98.59	%	0.224			0.23%
ScR 361.383	380789.7	100.8	%	0.48			0.48%
Ag 328.068†	-358.2	-0.00188	mg/L	0.000171	-0.01879	0.001710	9.10%
Al 308.215†	12117.0	6.618	mg/L	0.0120	66.18	0.120	0.18%
As 188.979†	39.2	0.01264	mg/L	0.000278	0.1264	0.00278	2.20%
B 249.677†	46.6	0.00535	mg/L	0.000256	0.05348	0.002557	4.78%
Ba 233.527†	112.9	0.01862	mg/L	0.001274	0.1862	0.01274	6.84%
Be 313.042†	139.2	0.00018	mg/L	0.000015	0.00183	0.000154	8.44%
Ca 317.933†	5735578.1	346.5	mg/L	1.49	3465	14.94	0.43%
Cd 228.802†	398.5	0.01231	mg/L	0.000138	0.1231	0.00138	1.12%
Co 228.616†	217.8	0.00381	mg/L	0.000132	0.03813	0.001322	3.47%
Cr 267.716†	285.8	0.03378	mg/L	0.000679	0.3378	0.00679	2.01%
Cu 324.752†	3045.3	0.01137	mg/L	0.000164	0.1137	0.00164	1.44%
Fe 273.955†	23728.8	14.09	mg/L	0.024	140.9	0.24	0.17%
K 766.490†	2447.3	1.057	mg/L	0.0148	10.57	0.148	1.40%
Mg 279.077†	11301.6	7.133	mg/L	0.0194	71.33	0.194	0.27%
Mn 257.610†	15954.1	0.3499	mg/L	0.00047	3.499	0.0047	0.13%
Mo 202.031†	132.6	0.00220	mg/L	0.000144	0.02204	0.001441	6.54%
Na 589.592†	140871.3	10.76	mg/L	0.037	107.6	0.37	0.34%
Na 330.237†	390.7	11.85	mg/L	0.258	118.5	2.58	2.18%
Ni 231.604†	73.7	0.01478	mg/L	0.001778	0.1478	0.01778	12.03%
Pb 220.353†	8.1	0.00194	mg/L	0.000763	0.01945	0.007631	39.24%
Sb 206.836†	2.5	0.00023	mg/L	0.000593	0.00231	0.005933	256.74%
Se 196.026†	-38.5	-0.02265	mg/L	0.002998	-0.2265	0.02998	13.23%
Si 288.158†	1972.0	0.8326	mg/L	0.00070	8.326	0.0070	0.08%
Sn 189.927†	-112.4	0.01707	mg/L	0.001601	0.1707	0.01601	9.38%
Sr 421.552†	2979705.2	3.098	mg/L	0.0054	30.98	0.054	0.17%
Ti 334.903†	11988.1	0.4763	mg/L	0.00231	4.763	0.0231	0.49%
Tl 190.801†	27.3	0.01126	mg/L	0.001506	0.1126	0.01506	13.38%
V 292.402†	3543.9	0.02642	mg/L	0.000110	0.2642	0.00110	0.42%
Zn 206.200†	177.5	0.03792	mg/L	0.000552	0.3792	0.00552	1.46%

Sequence No.: 45
 Sample ID: VS82 C SWC
 Analyst: BA
 Dilution: 2.000000X

Del

Autosampler Location: 327
 Date Collected: 11/28/2012 12:49:01 PM
 Data Type: Original

Nebulizer Parameters: VS82 C SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2594335.1	91.82	%	0.252			0.27%
ScR 361.383	361840.4	95.75	%	0.335			0.35%
Ag 328.068†	-1343.5	-0.00704	mg/L	0.000206	-0.01408	mg/L	0.000413 2.93%
Al 308.215†	62229.5	33.99	mg/L	0.274	67.98	mg/L	0.548 0.81%
As 188.979†	-10.8	-0.03210	mg/L	0.001982	-0.06421	mg/L	0.003964 6.17%
B 249.677†	350.6	0.04025	mg/L	0.001588	0.08050	mg/L	0.003176 3.95%
Ba 233.527†	600.7	0.10000	mg/L	0.002374	0.2000	mg/L	0.00475 2.37%
Be 313.042†	586.8	0.00076	mg/L	0.000042	0.00152	mg/L	0.000083 5.47%
Ca 317.933†	27188700.1	1642	mg/L	3.95	3285	mg/L	7.90 0.24%
Cd 228.802†	1913.7	0.05971	mg/L	0.000394	0.1194	mg/L	0.00079 0.66%
Co 228.616†	948.6	0.01600	mg/L	0.000133	0.03201	mg/L	0.000266 0.83%
Cr 267.716†	1255.0	0.1471	mg/L	0.00093	0.2943	mg/L	0.00185 0.63%
Cu 324.752†	14747.2	0.05508	mg/L	0.000440	0.1102	mg/L	0.00088 0.80%
Fe 273.955†	116240.2	69.05	mg/L	0.556	138.1	mg/L	1.11 0.81%
K 766.490†	12504.9	5.402	mg/L	0.0176	10.80	mg/L	0.035 0.33%
Mg 279.077†	55691.5	35.15	mg/L	0.221	70.30	mg/L	0.442 0.63%
Mn 257.610†	78268.3	1.717	mg/L	0.0132	3.433	mg/L	0.0263 0.77%
Mo 202.031†	258.6	-0.00615	mg/L	0.000294	-0.01231	mg/L	0.000588 4.78%
Na 589.592†	715241.7	54.61	mg/L	0.072	109.2	mg/L	0.14 0.13%
Na 330.237†	1821.2	55.28	mg/L	0.453	110.6	mg/L	0.91 0.82%
Ni 231.604†	373.5	0.07490	mg/L	0.000999	0.1498	mg/L	0.00200 1.33%
Pb 220.353†	85.9	0.01495	mg/L	0.001229	0.02990	mg/L	0.002458 8.22%
Sb 206.836†	9.2	0.00111	mg/L	0.001012	0.00222	mg/L	0.002024 91.33%
Se 196.026†	-44.8	-0.02639	mg/L	0.004144	-0.05278	mg/L	0.008288 15.70%
Si 288.158†	10003.9	4.223	mg/L	0.0307	8.446	mg/L	0.0614 0.73%
Sn 189.927†	-289.7	0.1368	mg/L	0.00089	0.2736	mg/L	0.00179 0.65%
Sr 421.552†	14732698.0	15.32	mg/L	0.095	30.63	mg/L	0.189 0.62%
Ti 334.903†	58538.9	2.328	mg/L	0.0156	4.657	mg/L	0.0312 0.67%
Tl 190.801†	3.3	0.00798	mg/L	0.004996	0.01595	mg/L	0.009992 62.63%
V 292.402†	16959.2	0.1263	mg/L	0.00013	0.2526	mg/L	0.00026 0.10%
Zn 206.200†	840.0	0.1795	mg/L	0.00205	0.3589	mg/L	0.00409 1.14%

Sequence No.: 46
Sample ID: VS82 CDUP SWC
Analyst: BA
Dilution: 2.000000X

DJ

Autosampler Location: 328
Date Collected: 11/28/2012 12:53:48 PM
Data Type: Original

Nebulizer Parameters: VS82 CDUP SWC

Analyte Back Pressure Flow
All 215.0 kPa 0.75 L/min

Mean Data: VS82 CDUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std. Dev.	Sample Conc. Units	Std. Dev.	RSD
ScA 357.253	2622532.2	92.82	%	0.200			0.21%
ScR 361.383	360659.1	95.44	%	0.200			0.21%
Ag 328.068†	-1351.4	-0.00708	mg/L	0.000094	-0.01415	0.000187	1.32%
Al 308.215†	67683.4	36.97	mg/L	0.101	73.93	0.203	0.27%
As 188.979†	-63.1	-0.04075	mg/L	0.002681	-0.08151	0.005361	6.58%
B 249.677†	258.1	0.02961	mg/L	0.000371	0.05922	0.000743	1.25%
Ba 233.527†	448.9	0.07416	mg/L	0.001304	0.1483	0.00261	1.76%
Be 313.042†	524.5	0.00066	mg/L	0.000024	0.00132	0.000049	3.70%
Ca 317.933†	29657668.4	1791	mg/L	6.18	3583	12.35	0.34%
Cd 228.802†	1867.2	0.05855	mg/L	0.000176	0.1171	0.00035	0.30%
Co 228.616†	1094.3	0.01781	mg/L	0.000169	0.03563	0.000339	0.95%
Cr 267.716†	956.9	0.1064	mg/L	0.00017	0.2129	0.00035	0.16%
Cu 324.752†	18934.7	0.06927	mg/L	0.000276	0.1385	0.00055	0.40%
Fe 273.955†	92538.7	54.97	mg/L	0.181	109.9	0.36	0.33%
K 766.490†	10569.1	4.566	mg/L	0.0045	9.132	0.0090	0.10%
Mg 279.077†	57743.3	36.45	mg/L	0.081	72.91	0.162	0.22%
Mn 257.610†	82289.8	1.804	mg/L	0.0057	3.609	0.0114	0.32%
Mo 202.031†	263.1	-0.00756	mg/L	0.000210	-0.01512	0.000419	2.77%
Na 589.592†	707824.7	54.04	mg/L	0.251	108.1	0.50	0.46%
Na 330.237†	1775.6	54.09	mg/L	0.440	108.2	0.88	0.81%
Ni 231.604†	409.0	0.08202	mg/L	0.001238	0.1640	0.00248	1.51%
Pb 220.353†	49.0	0.01210	mg/L	0.000005	0.02421	0.000010	0.04%
Sb 206.836†	4.2	0.00070	mg/L	0.000585	0.00141	0.001170	83.08%
Se 196.026†	-43.2	-0.02548	mg/L	0.002201	-0.05095	0.004401	8.64%
Si 288.158†	9699.7	4.095	mg/L	0.0094	8.190	0.0188	0.23%
Sn 189.927†	-298.0	0.1535	mg/L	0.00065	0.3070	0.00130	0.42%
Sr 421.552†	14951986.8	15.55	mg/L	0.065	31.09	0.130	0.42%
Ti 334.903†	79711.1	3.192	mg/L	0.0078	6.383	0.0157	0.25%
Tl 190.801†	8.1	0.00816	mg/L	0.000522	0.01632	0.001044	6.40%
V 292.402†	18670.8	0.1392	mg/L	0.00014	0.2783	0.00027	0.10%
Zn 206.200†	1131.2	0.2417	mg/L	0.00135	0.4834	0.00271	0.56%

Sequence No.: 47
Sample ID: VS82 CSPK SWC
Analyst: BA
Dilution: 2.000000X

Del

Autosampler Location: 329
Date Collected: 11/28/2012 12:58:07 PM
Data Type: Original

Nebulizer Parameters: VS82 CSPK SWC

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: VS82 CSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2609131.7	92.35	%	0.061			0.07%
ScR 361.383	360417.3	95.37	%	0.330			0.35%
Ag 328.068†	107662.7	0.5673	mg/L	0.00311	1.135 mg/L	0.0062	0.55%
Al 308.215†	102764.7	56.12	mg/L	0.198	112.2 mg/L	0.40	0.35%
As 188.979†	4265.6	2.075	mg/L	0.0102	4.149 mg/L	0.0205	0.49%
B 249.677†	374.1	0.04195	mg/L	0.000974	0.08390 mg/L	0.001949	2.32%
Ba 233.527†	11785.5	2.172	mg/L	0.0050	4.343 mg/L	0.0100	0.23%
Be 313.042†	370343.7	0.5155	mg/L	0.00068	1.031 mg/L	0.0014	0.13%
Ca 317.933†	26789625.9	1618	mg/L	2.98	3236 mg/L	5.96	0.18%
Cd 228.802†	21527.9	0.6642	mg/L	0.00080	1.328 mg/L	0.0016	0.12%
Co 228.616†	22334.8	0.4978	mg/L	0.00152	0.9955 mg/L	0.00303	0.30%
Cr 267.716†	5633.6	0.7140	mg/L	0.00192	1.428 mg/L	0.0038	0.27%
Cu 324.752†	177392.0	0.6375	mg/L	0.00349	1.275 mg/L	0.0070	0.55%
Fe 273.955†	130625.7	77.59	mg/L	0.119	155.2 mg/L	0.24	0.15%
K 766.490†	39417.3	17.03	mg/L	0.055	34.06 mg/L	0.111	0.32%
Mg 279.077†	78223.0	49.38	mg/L	0.101	98.77 mg/L	0.201	0.20%
Mn 257.610†	104595.0	2.296	mg/L	0.0019	4.592 mg/L	0.0039	0.08%
Mo 202.031†	251.1	-0.00626	mg/L	0.000533	-0.01252 mg/L	0.001065	8.51%
Na 589.592†	831230.3	63.47	mg/L	0.189	126.9 mg/L	0.38	0.30%
Na 330.237†	2101.3	64.02	mg/L	0.235	128.0 mg/L	0.47	0.37%
Ni 231.604†	3004.7	0.6018	mg/L	0.00126	1.204 mg/L	0.0025	0.21%
Pb 220.353†	17915.8	1.980	mg/L	0.0038	3.960 mg/L	0.0076	0.19%
Sb 206.836†	10.3	0.00073	mg/L	0.002636	0.00147 mg/L	0.005273	359.66%
Se 196.026†	3515.7	2.065	mg/L	0.0099	4.130 mg/L	0.0198	0.48%
Si 288.158†	7815.2	3.301	mg/L	0.0079	6.602 mg/L	0.0157	0.24%
Sn 189.927†	1776.6	0.6096	mg/L	0.00225	1.219 mg/L	0.0045	0.37%
Sr 421.552†	15070390.7	15.67	mg/L	0.023	31.34 mg/L	0.045	0.14%
Ti 334.903†	111001.6	4.486	mg/L	0.0078	8.973 mg/L	0.0156	0.17%
Tl 190.801†	4891.3	1.775	mg/L	0.0069	3.550 mg/L	0.0139	0.39%
V 292.402†	88365.6	0.6708	mg/L	0.00299	1.342 mg/L	0.0060	0.45%
Zn 206.200†	3348.5	0.7155	mg/L	0.00084	1.431 mg/L	0.0017	0.12%

Sequence No.: 48
Sample ID: ~~VS82 CPOST SWC~~
Analyst: BA
Dilution: 2.000000X

ZZZZZZ
BA
11/29/12
Det

Autosampler Location: 330
Date Collected: 11/28/2012 1:02:34 PM
Data Type: Original

Nebulizer Parameters: VS82 CPOST SWC

Analyte Back Pressure Flow
All 215.0 kPa 0.75 L/min

Mean Data: VS82 CPOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2614337.1	92.53	%	0.410			0.44%
ScR 361.383	364112.7	96.35	%	0.320			0.33%
Ag 328.068†	99699.8	0.5253	mg/L	0.00431	1.051 mg/L	0.0086	0.82%
Al 308.215†	65125.6	35.56	mg/L	0.083	71.13 mg/L	0.165	0.23%
As 188.979†	4457.7	2.102	mg/L	0.0095	4.205 mg/L	0.0189	0.45%
B 249.677†	348.8	0.03908	mg/L	0.001357	0.07815 mg/L	0.002715	3.47%
Ba 233.527†	11283.9	2.080	mg/L	0.0124	4.160 mg/L	0.0249	0.60%
Be 313.042†	360519.0	0.5018	mg/L	0.00106	1.004 mg/L	0.0021	0.21%
Ca 317.933†	27168379.4	1641	mg/L	18.67	3282 mg/L	37.34	1.14%
Cd 228.802†	19700.3	0.6061	mg/L	0.00222	1.212 mg/L	0.0044	0.37%
Co 228.616†	21592.2	0.4853	mg/L	0.00250	0.9705 mg/L	0.00500	0.52%
Cr 267.716†	5078.5	0.6419	mg/L	0.00269	1.284 mg/L	0.0054	0.42%
Cu 324.752†	166683.2	0.5993	mg/L	0.00371	1.199 mg/L	0.0074	0.62%
Fe 273.955†	116604.5	69.26	mg/L	0.168	138.5 mg/L	0.34	0.24%
K 766.490†	37696.0	16.29	mg/L	0.044	32.57 mg/L	0.087	0.27%
Mg 279.077†	70428.2	44.46	mg/L	0.114	88.93 mg/L	0.227	0.26%
Mn 257.610†	98300.0	2.157	mg/L	0.0045	4.315 mg/L	0.0089	0.21%
Mo 202.031†	258.2	-0.00619	mg/L	0.000598	-0.01237 mg/L	0.001197	9.68%
Na 589.592†	857596.2	65.48	mg/L	0.150	131.0 mg/L	0.30	0.23%
Na 330.237†	2179.2	65.89	mg/L	0.290	131.8 mg/L	0.58	0.44%
Ni 231.604†	2768.9	0.5545	mg/L	0.00171	1.109 mg/L	0.0034	0.31%
Pb 220.353†	17719.7	1.954	mg/L	0.0090	3.908 mg/L	0.0181	0.46%
Sb 206.836†	28.1	0.00111	mg/L	0.001284	0.00222 mg/L	0.002568	115.82%
Se 196.026†	3561.7	2.092	mg/L	0.0068	4.184 mg/L	0.0137	0.33%
Si 288.158†	9938.2	4.199	mg/L	0.0185	8.397 mg/L	0.0370	0.44%
Sn 189.927†	-285.7	0.1377	mg/L	0.00371	0.2753 mg/L	0.00743	2.70%
Sr 421.552†	15102583.1	15.70	mg/L	0.133	31.40 mg/L	0.266	0.85%
Ti 334.903†	57563.1	2.288	mg/L	0.0032	4.576 mg/L	0.0064	0.14%
Tl 190.801†	4840.4	1.756	mg/L	0.0025	3.512 mg/L	0.0051	0.14%
V 292.402†	82224.9	0.6252	mg/L	0.00494	1.250 mg/L	0.0099	0.79%
Zn 206.200†	3065.1	0.6549	mg/L	0.00568	1.310 mg/L	0.0114	0.87%

Sequence No.: 49
 Sample ID: VS82 MB1SPK SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 331
 Date Collected: 11/28/2012 1:07:09 PM
 Data Type: Original

Nebulizer Parameters: VS82 MB1SPK SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2900205.0	102.7	%	0.38				0.37%
ScR 361.383	385669.3	102.1	%	0.26				0.26%
Ag 328.068†	102592.9	0.5405	mg/L	0.00387	1.081	mg/L	0.0077	0.72%
Al 308.215†	3834.2	2.087	mg/L	0.0054	4.174	mg/L	0.0108	0.26%
As 188.979†	4382.4	2.094	mg/L	0.0047	4.187	mg/L	0.0095	0.23%
B 249.677†	10.1	0.00009	mg/L	0.000399	0.00018	mg/L	0.000799	442.20%
Ba 233.527†	11220.6	2.079	mg/L	0.0104	4.158	mg/L	0.0208	0.50%
Be 313.042†	377113.6	0.5250	mg/L	0.00091	1.050	mg/L	0.0018	0.17%
Ca 317.933†	174280.2	10.53	mg/L	0.020	21.05	mg/L	0.041	0.19%
Cd 228.802†	17320.4	0.5320	mg/L	0.00272	1.064	mg/L	0.0054	0.51%
Co 228.616†	22816.5	0.5185	mg/L	0.00404	1.037	mg/L	0.0081	0.78%
Cr 267.716†	4036.2	0.5222	mg/L	0.00307	1.044	mg/L	0.0061	0.59%
Cu 324.752†	147368.2	0.5279	mg/L	0.00341	1.056	mg/L	0.0068	0.65%
Fe 273.955†	3601.9	2.136	mg/L	0.0086	4.272	mg/L	0.0171	0.40%
K 766.490†	23701.6	10.24	mg/L	0.037	20.48	mg/L	0.074	0.36%
Mg 279.077†	16919.9	10.69	mg/L	0.049	21.38	mg/L	0.098	0.46%
Mn 257.610†	23494.7	0.5170	mg/L	0.00211	1.034	mg/L	0.0042	0.41%
Mo 202.031†	29.4	0.00118	mg/L	0.000161	0.00236	mg/L	0.000322	13.64%
Na 589.592†	133871.6	10.22	mg/L	0.011	20.44	mg/L	0.023	0.11%
Na 330.237†	366.6	10.86	mg/L	0.231	21.72	mg/L	0.463	2.13%
Ni 231.604†	2599.2	0.5204	mg/L	0.00265	1.041	mg/L	0.0053	0.51%
Pb 220.353†	19056.9	2.095	mg/L	0.0109	4.191	mg/L	0.0217	0.52%
Sb 206.836†	4.2	0.00052	mg/L	0.001194	0.00104	mg/L	0.002387	230.60%
Se 196.026†	3553.3	2.087	mg/L	0.0051	4.174	mg/L	0.0102	0.25%
Si 288.158†	-2.8	-0.00118	mg/L	0.002437	-0.00236	mg/L	0.004875	206.75%
Sn 189.927†	2255.2	0.5202	mg/L	0.00249	1.040	mg/L	0.0050	0.48%
Sr 421.552†	498505.2	0.5183	mg/L	0.00056	1.037	mg/L	0.0011	0.11%
Ti 334.903†	61.9	0.00194	mg/L	0.000410	0.00387	mg/L	0.000820	21.16%
Tl 190.801†	5721.1	2.068	mg/L	0.0023	4.136	mg/L	0.0047	0.11%
V 292.402†	68603.2	0.5244	mg/L	0.00361	1.049	mg/L	0.0072	0.69%
Zn 206.200†	2471.1	0.5281	mg/L	0.00353	1.056	mg/L	0.0071	0.67%

Sequence No.: 50
 Sample ID: CV 6
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 1:11:11 PM
 Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2868255.4	101.5 %	0.62			0.61%
ScR 361.383	379537.4	100.4 %	0.81			0.81%
Ag 328.068†	198137.3	1.044 mg/L	0.0060	1.044 mg/L	0.0060	0.57%
Al 308.215†	3797.2	2.039 mg/L	0.0184	2.039 mg/L	0.0184	0.90%
As 188.979†	4257.0	2.060 mg/L	0.0086	2.060 mg/L	0.0086	0.42%
B 249.677†	8849.9	1.016 mg/L	0.0118	1.016 mg/L	0.0118	1.17%
Ba 233.527†	5506.1	1.020 mg/L	0.0073	1.020 mg/L	0.0073	0.71%
Be 313.042†	734161.1	1.022 mg/L	0.0095	1.022 mg/L	0.0095	0.93%
Ca 317.933†	35794.0	2.162 mg/L	0.0156	2.162 mg/L	0.0156	0.72%
Cd 228.802†	33130.3	1.031 mg/L	0.0044	1.031 mg/L	0.0044	0.43%
Co 228.616†	44548.2	1.011 mg/L	0.0061	1.011 mg/L	0.0061	0.61%
Cr 267.716†	7878.6	1.021 mg/L	0.0067	1.021 mg/L	0.0067	0.66%
Cu 324.752†	287694.7	1.030 mg/L	0.0043	1.030 mg/L	0.0043	0.42%
Fe 273.955†	3547.4	2.100 mg/L	0.0233	2.100 mg/L	0.0233	1.11%
K 766.490†	47324.8	20.45 mg/L	0.248	20.45 mg/L	0.248	1.21%
Mg 279.077†	3259.5	2.067 mg/L	0.0195	2.067 mg/L	0.0195	0.94%
Mn 257.610†	46699.2	1.027 mg/L	0.0098	1.027 mg/L	0.0098	0.96%
Mo 202.031†	23602.0	1.059 mg/L	0.0058	1.059 mg/L	0.0058	0.55%
Na 589.592†	676553.1	51.66 mg/L	0.593	51.66 mg/L	0.593	1.15%
Na 330.237†	1768.4	53.09 mg/L	0.751	53.09 mg/L	0.751	1.42%
Ni 231.604†	5122.9	1.028 mg/L	0.0109	1.028 mg/L	0.0109	1.06%
Pb 220.353†	19252.3	2.117 mg/L	0.0081	2.117 mg/L	0.0081	0.38%
Sb 206.836†	7975.5	2.176 mg/L	0.0097	2.176 mg/L	0.0097	0.45%
Se 196.026†	3461.7	2.033 mg/L	0.0073	2.033 mg/L	0.0073	0.36%
Si 288.158†	4982.3	2.100 mg/L	0.0127	2.100 mg/L	0.0127	0.60%
Sn 189.927†	4603.6	1.061 mg/L	0.0040	1.061 mg/L	0.0040	0.38%
Sr 421.552†	976610.8	1.015 mg/L	0.0106	1.015 mg/L	0.0106	1.05%
Ti 334.903†	25413.8	1.044 mg/L	0.0104	1.044 mg/L	0.0104	0.99%
Tl 190.801†	5613.7	2.025 mg/L	0.0026	2.025 mg/L	0.0026	0.13%
V 292.402†	135638.8	1.037 mg/L	0.0059	1.037 mg/L	0.0059	0.57%
Zn 206.200†	5019.5	1.072 mg/L	0.0131	1.072 mg/L	0.0131	1.22%

Sequence No.: 51
 Sample ID: CB 6
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 1:15:32 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2879686.5	101.9 %	0.58			0.57%
ScR 361.383	382215.9	101.1 %	0.57			0.56%
Ag 328.068†	46.8	0.00025 mg/L	0.000164	0.00025 mg/L	0.000164	66.60%
Al 308.215†	14.6	0.00796 mg/L	0.004534	0.00796 mg/L	0.004534	56.97%
As 188.979†	2.9	0.00137 mg/L	0.000791	0.00137 mg/L	0.000791	57.86%
B 249.677†	14.7	0.00169 mg/L	0.000429	0.00169 mg/L	0.000429	25.38%
Ba 233.527†	-1.1	-0.00020 mg/L	0.000972	-0.00020 mg/L	0.000972	493.79%
Be 313.042†	87.7	0.00012 mg/L	0.000014	0.00012 mg/L	0.000014	11.61%
Ca 317.933†	281.2	0.01699 mg/L	0.002804	0.01699 mg/L	0.002804	16.51%
Cd 228.802†	-0.1	-0.00001 mg/L	0.000057	-0.00001 mg/L	0.000057	389.79%
Co 228.616†	0.5	0.00001 mg/L	0.000116	0.00001 mg/L	0.000116	>999.9%
Cr 267.716†	-3.3	-0.00043 mg/L	0.000289	-0.00043 mg/L	0.000289	67.24%
Cu 324.752†	40.5	0.00014 mg/L	0.000134	0.00014 mg/L	0.000134	92.62%
Fe 273.955†	0.9	0.00055 mg/L	0.002750	0.00055 mg/L	0.002750	501.51%
K 766.490†	36.7	0.01584 mg/L	0.011130	0.01584 mg/L	0.011130	70.29%
Mg 279.077†	0.9	0.00054 mg/L	0.003453	0.00054 mg/L	0.003453	635.81%
Mn 257.610†	13.7	0.00030 mg/L	0.000099	0.00030 mg/L	0.000099	32.92%
Mo 202.031†	24.9	0.00112 mg/L	0.000144	0.00112 mg/L	0.000144	12.83%
Na 589.592†	281.5	0.02149 mg/L	0.002090	0.02149 mg/L	0.002090	9.72%
Na 330.237†	4.2	0.1253 mg/L	0.16317	0.1253 mg/L	0.16317	130.23%
Ni 231.604†	-9.3	-0.00186 mg/L	0.000626	-0.00186 mg/L	0.000626	33.67%
Pb 220.353†	5.2	0.00057 mg/L	0.000553	0.00057 mg/L	0.000553	97.41%
Sb 206.836†	6.4	0.00177 mg/L	0.001235	0.00177 mg/L	0.001235	69.78%
Se 196.026†	5.3	0.00312 mg/L	0.004318	0.00312 mg/L	0.004318	138.36%
Si 288.158†	16.2	0.00681 mg/L	0.002493	0.00681 mg/L	0.002493	36.60%
Sn 189.927†	2.4	0.00056 mg/L	0.000545	0.00056 mg/L	0.000545	96.86%
Sr 421.552†	267.6	0.00028 mg/L	0.000029	0.00028 mg/L	0.000029	10.43%
Ti 334.903†	5.3	0.00021 mg/L	0.000648	0.00021 mg/L	0.000648	302.32%
Tl 190.801†	4.4	0.00160 mg/L	0.000778	0.00160 mg/L	0.000778	48.64%
V 292.402†	56.3	0.00043 mg/L	0.000191	0.00043 mg/L	0.000191	44.60%
Zn 206.200†	2.8	0.00059 mg/L	0.000042	0.00059 mg/L	0.000042	7.20%

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Analysis Begun

Start Time: 11/28/2012 1:44:16 PM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/28/2012 8:01:35 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1128.sif

Batch ID:

Results Data Set: I2121128

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

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 Sequence No.: 1

Autosampler Location: 332

Sample ID: VS82 A SWC

Date Collected: 11/28/2012 1:44:17 PM

Analyst: BA

Data Type: Original

Dilution: 10.000000X

 Nebulizer Parameters: VS82 A SWC

Analyte	Back Pressure	Flow
All	213.0 kPa	0.75 L/min

 Mean Data: VS82 A SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2718899.6		96.23 %	0.559			0.58%
ScR 361.383	372182.7		98.49 %	0.559			0.57%
Ag 328.068†	-472.2	-0.00248	mg/L	0.000072	-0.02484	0.000719	2.90%
Al 308.215†	4561.1	2.491	mg/L	0.0251	24.91	0.251	1.01%
As 188.979†	58.9	0.00800	mg/L	0.002294	0.07998	0.022943	28.69%
B 249.677†	9.6	0.00110	mg/L	0.000554	0.01102	0.005537	50.26%
Ba 233.527†	102.7	0.01826	mg/L	0.000576	0.1826	0.00576	3.16%
Be 313.042†	122.5	0.00017	mg/L	0.000015	0.00165	0.000147	8.92%
Ca 317.933†	7943555.9	479.8	mg/L	6.97	4798	69.68	1.45%
Cd 228.802†	61.1	0.00170	mg/L	0.000134	0.01697	0.001335	7.87%
Co 228.616†	111.5	0.00195	mg/L	0.000199	0.01946	0.001991	10.23%
Cr 267.716†	82.6	0.00599	mg/L	0.000471	0.05991	0.004714	7.87%
Cu 324.752†	1474.8	0.00539	mg/L	0.000118	0.05386	0.001180	2.19%
Fe 273.955†	7945.7	4.720	mg/L	0.0219	47.20	0.219	0.46%
K 766.490†	1416.2	0.6118	mg/L	0.01571	6.118	0.1571	2.57%
Mg 279.077†	8682.6	5.483	mg/L	0.0293	54.83	0.293	0.54%
Mn 257.610†	13324.9	0.2916	mg/L	0.00048	2.916	0.0048	0.16%
Mo 202.031†	152.2	0.00164	mg/L	0.000467	0.01645	0.004671	28.40%
Na 589.592†	125458.5	9.579	mg/L	0.0397	95.79	0.397	0.41%
Na 330.237†	351.9	10.64	mg/L	0.142	106.4	1.42	1.34%
Ni 231.604†	37.6	0.00753	mg/L	0.000557	0.07534	0.005574	7.40%
Pb 220.353†	-18.1	-0.00158	mg/L	0.000454	-0.01580	0.004540	28.74%
Sb 206.836†	-7.1	-0.00222	mg/L	0.000251	-0.02220	0.002507	11.29%
Se 196.026†	-38.0	-0.02232	mg/L	0.004377	-0.2232	0.04377	19.61%
Si 288.158†	844.9	0.3571	mg/L	0.00647	3.571	0.0647	1.81%
Sn 189.927†	-137.2	0.02781	mg/L	0.000583	0.2781	0.00583	2.10%
Sr 421.552†	4327973.7	4.500	mg/L	0.0567	45.00	0.567	1.26%
Ti 334.903†	6622.2	0.2494	mg/L	0.00110	2.494	0.0110	0.44%
Tl 190.801†	32.6	0.01225	mg/L	0.001249	0.1225	0.01249	10.19%
V 292.402†	1521.8	0.01136	mg/L	0.000045	0.1136	0.00045	0.39%
Zn 206.200†	76.0	0.01623	mg/L	0.001440	0.1623	0.01440	8.87%

Sequence No.: 2
 Sample ID: VS82 B SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 333
 Date Collected: 11/28/2012 1:48:38 PM
 Data Type: Original

Nebulizer Parameters: VS82 B SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VS82 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2755160.9	97.52	%	0.443			0.45%
ScR 361.383	378357.0	100.1	%	0.08			0.08%
Ag 328.068†	-362.3	-0.00190	mg/L	0.000316	-0.01899 mg/L	0.003160	16.64%
Al 308.215†	12905.7	7.049	mg/L	0.0243	70.49 mg/L	0.243	0.34%
As 188.979†	40.6	0.01092	mg/L	0.001740	0.1092 mg/L	0.01740	15.93%
B 249.677†	52.8	0.00606	mg/L	0.000161	0.06062 mg/L	0.001612	2.66%
Ba 233.527†	134.2	0.02134	mg/L	0.000296	0.2134 mg/L	0.00296	1.39%
Be 313.042†	170.0	0.00022	mg/L	0.000009	0.00225 mg/L	0.000089	3.98%
Ca 317.933†	6317196.6	381.6	mg/L	4.88	3816 mg/L	48.78	1.28%
Cd 228.802†	64.5	0.00172	mg/L	0.000011	0.01717 mg/L	0.000109	0.63%
Co 228.616†	239.3	0.00423	mg/L	0.000168	0.04229 mg/L	0.001677	3.97%
Cr 267.716†	204.0	0.02308	mg/L	0.000483	0.2308 mg/L	0.00483	2.09%
Cu 324.752†	3462.3	0.01319	mg/L	0.000225	0.1319 mg/L	0.00225	1.71%
Fe 273.955†	36163.7	21.48	mg/L	0.076	214.8 mg/L	0.76	0.35%
K 766.490†	2036.1	0.8796	mg/L	0.00978	8.796 mg/L	0.0978	1.11%
Mg 279.077†	12258.7	7.734	mg/L	0.0314	77.34 mg/L	0.314	0.41%
Mn 257.610†	17409.7	0.3818	mg/L	0.00110	3.818 mg/L	0.0110	0.29%
Mo 202.031†	147.9	0.00251	mg/L	0.000254	0.02514 mg/L	0.002541	10.10%
Na 589.592†	124428.6	9.500	mg/L	0.0271	95.00 mg/L	0.271	0.29%
Na 330.237†	346.8	10.53	mg/L	0.253	105.3 mg/L	2.53	2.41%
Ni 231.604†	107.6	0.02157	mg/L	0.000869	0.2157 mg/L	0.00869	4.03%
Pb 220.353†	24.5	0.00353	mg/L	0.000071	0.03526 mg/L	0.000707	2.01%
Sb 206.836†	-0.9	-0.00054	mg/L	0.001388	-0.00542 mg/L	0.013875	256.18%
Se 196.026†	-32.7	-0.01922	mg/L	0.001819	-0.1922 mg/L	0.01819	9.46%
Si 288.158†	2359.5	0.9960	mg/L	0.00838	9.960 mg/L	0.0838	0.84%
Sn 189.927†	-118.9	0.01990	mg/L	0.003002	0.1990 mg/L	0.03002	15.09%
Sr 421.552†	3392581.9	3.527	mg/L	0.0362	35.27 mg/L	0.362	1.03%
Ti 334.903†	11688.8	0.4623	mg/L	0.00227	4.623 mg/L	0.0227	0.49%
Tl 190.801†	21.8	0.01003	mg/L	0.002596	0.1003 mg/L	0.02596	25.87%
V 292.402†	4234.1	0.03138	mg/L	0.000314	0.3138 mg/L	0.00314	1.00%
Zn 206.200†	222.4	0.04752	mg/L	0.000404	0.4752 mg/L	0.00404	0.85%

Sequence No.: 3
 Sample ID: VS82 D SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 334
 Date Collected: 11/28/2012 1:52:57 PM
 Data Type: Original

Nebulizer Parameters: VS82 D SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 D SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2792597.4	98.84	%	0.493			0.50%
ScR 361.383	370444.0	98.03	%	0.385			0.39%
Ag 328.068†	-285.2	-0.00149	mg/L	0.000165	-0.01491 mg/L	0.001650	11.06%
Al 308.215†	20345.3	11.11	mg/L	0.052	111.1 mg/L	0.52	0.47%
As 188.979†	21.7	0.01285	mg/L	0.001790	0.1285 mg/L	0.01790	13.92%
B 249.677†	40.5	0.00464	mg/L	0.001308	0.04641 mg/L	0.013080	28.19%
Ba 233.527†	159.4	0.02646	mg/L	0.000837	0.2646 mg/L	0.00837	3.16%
Be 313.042†	221.5	0.00029	mg/L	0.000021	0.00293 mg/L	0.000209	7.12%
Ca 317.933†	4516072.0	272.8	mg/L	1.12	2728 mg/L	11.20	0.41%
Cd 228.802†	354.4	0.01095	mg/L	0.000235	0.1095 mg/L	0.00235	2.14%
Co 228.616†	342.9	0.00630	mg/L	0.000040	0.06301 mg/L	0.000402	0.64%
Cr 267.716†	316.5	0.03847	mg/L	0.000855	0.3847 mg/L	0.00855	2.22%
Cu 324.752†	5948.1	0.02193	mg/L	0.000111	0.2193 mg/L	0.00111	0.51%
Fe 273.955†	31640.2	18.79	mg/L	0.064	187.9 mg/L	0.64	0.34%
K 766.490†	3509.9	1.516	mg/L	0.0223	15.16 mg/L	0.223	1.47%
Mg 279.077†	13898.4	8.771	mg/L	0.0367	87.71 mg/L	0.367	0.42%
Mn 257.610†	18004.1	0.3952	mg/L	0.00119	3.952 mg/L	0.0119	0.30%
Mo 202.031†	123.0	0.00257	mg/L	0.000394	0.02569 mg/L	0.003938	15.33%
Na 589.592†	126683.1	9.672	mg/L	0.0543	96.72 mg/L	0.543	0.56%
Na 330.237†	339.5	10.34	mg/L	0.074	103.4 mg/L	0.74	0.72%
Ni 231.604†	194.0	0.03889	mg/L	0.000304	0.3889 mg/L	0.00304	0.78%
Pb 220.353†	3.6	0.00233	mg/L	0.000852	0.02328 mg/L	0.008521	36.60%
Sb 206.836†	-2.0	-0.00092	mg/L	0.001813	-0.00915 mg/L	0.018130	198.14%
Se 196.026†	-32.7	-0.01924	mg/L	0.002595	-0.1924 mg/L	0.02595	13.49%
Si 288.158†	1327.7	0.5611	mg/L	0.00659	5.611 mg/L	0.0659	1.18%
Sn 189.927†	-103.6	0.01001	mg/L	0.001364	0.1001 mg/L	0.01364	13.63%
Sr 421.552†	2381787.8	2.476	mg/L	0.0047	24.76 mg/L	0.047	0.19%
Ti 334.903†	15652.5	0.6305	mg/L	0.00288	6.305 mg/L	0.0288	0.46%
Tl 190.801†	23.8	0.01046	mg/L	0.001991	0.1046 mg/L	0.01991	19.04%
V 292.402†	5007.0	0.03733	mg/L	0.000262	0.3733 mg/L	0.00262	0.70%
Zn 206.200†	288.5	0.06164	mg/L	0.001087	0.6164 mg/L	0.01087	1.76%

Sequence No.: 4
 Sample ID: VS82 E SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 335
 Date Collected: 11/28/2012 1:57:15 PM
 Data Type: Original

Nebulizer Parameters: VS82 E SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 E SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2852718.1	101.0	%	0.21			0.21%
ScR 361.383	379121.9	100.3	%	0.24			0.24%
Ag 328.068†	-133.7	-0.00069	mg/L	0.000177	-0.00690 mg/L	0.001770	25.66%
Al 308.215†	25189.2	13.76	mg/L	0.108	137.6 mg/L	1.08	0.78%
As 188.979†	0.5	0.01747	mg/L	0.000276	0.1747 mg/L	0.00276	1.58%
B 249.677†	60.4	0.00693	mg/L	0.000309	0.06928 mg/L	0.003089	4.46%
Ba 233.527†	192.2	0.03246	mg/L	0.000573	0.3246 mg/L	0.00573	1.77%
Be 313.042†	232.9	0.00030	mg/L	0.000018	0.00303 mg/L	0.000183	6.04%
Ca 317.933†	2922370.1	176.5	mg/L	1.17	1765 mg/L	11.66	0.66%
Cd 228.802†	65.1	0.00190	mg/L	0.000135	0.01895 mg/L	0.001351	7.13%
Co 228.616†	371.9	0.00633	mg/L	0.000216	0.06335 mg/L	0.002157	3.40%
Cr 267.716†	300.6	0.03732	mg/L	0.000570	0.3732 mg/L	0.00570	1.53%
Cu 324.752†	4165.4	0.01550	mg/L	0.000235	0.1550 mg/L	0.00235	1.52%
Fe 273.955†	32416.3	19.25	mg/L	0.101	192.5 mg/L	1.01	0.53%
K 766.490†	3400.7	1.469	mg/L	0.0085	14.69 mg/L	0.085	0.58%
Mg 279.077†	13852.0	8.742	mg/L	0.0666	87.42 mg/L	0.666	0.76%
Mn 257.610†	16204.5	0.3559	mg/L	0.00273	3.559 mg/L	0.0273	0.77%
Mo 202.031†	103.2	0.00272	mg/L	0.000152	0.02721 mg/L	0.001519	5.58%
Na 589.592†	84301.3	6.437	mg/L	0.0579	64.37 mg/L	0.579	0.90%
Na 330.237†	225.5	6.984	mg/L	0.2325	69.84 mg/L	2.325	3.33%
Ni 231.604†	170.6	0.03421	mg/L	0.001129	0.3421 mg/L	0.01129	3.30%
Pb 220.353†	11.3	0.00379	mg/L	0.000687	0.03791 mg/L	0.006869	18.12%
Sb 206.836†	-5.0	-0.00149	mg/L	0.001519	-0.01487 mg/L	0.015187	102.12%
Se 196.026†	-23.3	-0.01373	mg/L	0.001848	-0.1373 mg/L	0.01848	13.45%
Si 288.158†	1547.7	0.6538	mg/L	0.00758	6.538 mg/L	0.0758	1.16%
Sn 189.927†	-88.4	0.00164	mg/L	0.000261	0.01635 mg/L	0.002611	15.97%
Sr 421.552†	1422334.1	1.479	mg/L	0.0108	14.79 mg/L	0.108	0.73%
Ti 334.903†	23440.0	0.9553	mg/L	0.00573	9.553 mg/L	0.0573	0.60%
Tl 190.801†	25.0	0.01087	mg/L	0.002909	0.1087 mg/L	0.02909	26.76%
V 292.402†	6555.8	0.04891	mg/L	0.000605	0.4891 mg/L	0.00605	1.24%
Zn 206.200†	274.4	0.05863	mg/L	0.000879	0.5863 mg/L	0.00879	1.50%

Sequence No.: 5
 Sample ID: VS82 F SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 336
 Date Collected: 11/28/2012 2:01:33 PM
 Data Type: Original

Nebulizer Parameters: VS82 F SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 F SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2844439.9	100.7	%	0.15			0.15%
ScR 361.383	376634.7	99.66	%	0.715			0.72%
Ag 328.068†	-109.2	-0.00056	mg/L	0.000083	-0.00560	mg/L	0.000833 14.86%
Al 308.215†	23554.7	12.87	mg/L	0.189	128.7	mg/L	1.89 1.47%
As 188.979†	-4.0	0.01543	mg/L	0.000625	0.1543	mg/L	0.00625 4.05%
B 249.677†	47.6	0.00546	mg/L	0.000498	0.05456	mg/L	0.004982 9.13%
Ba 233.527†	147.9	0.02417	mg/L	0.000500	0.2417	mg/L	0.00500 2.07%
Be 313.042†	192.7	0.00025	mg/L	0.000032	0.00246	mg/L	0.000321 13.07%
Ca 317.933†	3439123.3	207.7	mg/L	1.17	2077	mg/L	11.70 0.56%
Cd 228.802†	392.7	0.01222	mg/L	0.000039	0.1222	mg/L	0.00039 0.32%
Co 228.616†	354.6	0.00581	mg/L	0.000190	0.05810	mg/L	0.001899 3.27%
Cr 267.716†	348.0	0.04313	mg/L	0.001659	0.4313	mg/L	0.01659 3.85%
Cu 324.752†	3943.6	0.01470	mg/L	0.000149	0.1470	mg/L	0.00149 1.01%
Fe 273.955†	33142.0	19.69	mg/L	0.368	196.9	mg/L	3.68 1.87%
K 766.490†	3103.8	1.341	mg/L	0.0288	13.41	mg/L	0.288 2.15%
Mg 279.077†	14787.4	9.333	mg/L	0.1667	93.33	mg/L	1.667 1.79%
Mn 257.610†	17078.0	0.3750	mg/L	0.00668	3.750	mg/L	0.0668 1.78%
Mo 202.031†	110.0	0.00269	mg/L	0.000186	0.02690	mg/L	0.001859 6.91%
Na 589.592†	104919.0	8.011	mg/L	0.0969	80.11	mg/L	0.969 1.21%
Na 330.237†	280.4	8.651	mg/L	0.0866	86.51	mg/L	0.866 1.00%
Ni 231.604†	149.4	0.02995	mg/L	0.000509	0.2995	mg/L	0.00509 1.70%
Pb 220.353†	9.0	0.00333	mg/L	0.000925	0.03326	mg/L	0.009254 27.82%
Sb 206.836†	-5.2	-0.00162	mg/L	0.000889	-0.01619	mg/L	0.008892 54.94%
Se 196.026†	-24.9	-0.01468	mg/L	0.001870	-0.1468	mg/L	0.01870 12.74%
Si 288.158†	1684.2	0.7114	mg/L	0.00234	7.114	mg/L	0.0234 0.33%
Sn 189.927†	-88.9	0.00540	mg/L	0.000676	0.05395	mg/L	0.006761 12.53%
Sr 421.552†	1781724.0	1.852	mg/L	0.0080	18.52	mg/L	0.080 0.43%
Ti 334.903†	25050.7	1.020	mg/L	0.0172	10.20	mg/L	0.172 1.68%
Tl 190.801†	17.3	0.00813	mg/L	0.001458	0.08130	mg/L	0.014579 17.93%
V 292.402†	6685.8	0.04987	mg/L	0.000234	0.4987	mg/L	0.00234 0.47%
Zn 206.200†	280.9	0.06001	mg/L	0.000535	0.6001	mg/L	0.00535 0.89%

Sequence No.: 6
 Sample ID: VS82 C-L SWC
 Analyst: BA
 Dilution: 50.000000X

Autosampler Location: 337
 Date Collected: 11/28/2012 2:05:51 PM
 Data Type: Original

Nebulizer Parameters: VS82 C-L SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 C-L SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2873629.4	101.7 %	0.74			0.73%
ScR 361.383	380069.0	100.6 %	0.72			0.72%
Ag 328.068†	-82.6	-0.00043 mg/L	0.000263	-0.02169 mg/L	0.013168	60.70%
Al 308.215†	2339.9	1.278 mg/L	0.0191	63.90 mg/L	0.953	1.49%
As 188.979†	30.9	0.01365 mg/L	0.000457	0.6823 mg/L	0.02286	3.35%
B 249.677†	8.4	0.00096 mg/L	0.001011	0.04817 mg/L	0.050566	104.98%
Ba 233.527†	22.0	0.00361 mg/L	0.000137	0.1805 mg/L	0.00684	3.79%
Be 313.042†	39.4	0.00005 mg/L	0.000009	0.00263 mg/L	0.000465	17.66%
Ca 317.933†	1123316.6	67.85 mg/L	0.195	3393 mg/L	9.73	0.29%
Cd 228.802†	80.3	0.00241 mg/L	0.000235	0.1203 mg/L	0.01176	9.77%
Co 228.616†	51.3	0.00094 mg/L	0.000095	0.04682 mg/L	0.004731	10.11%
Cr 267.716†	58.2	0.00691 mg/L	0.000257	0.3455 mg/L	0.01285	3.72%
Cu 324.752†	574.7	0.00215 mg/L	0.000195	0.1075 mg/L	0.00977	9.09%
Fe 273.955†	4755.2	2.825 mg/L	0.0245	141.2 mg/L	1.23	0.87%
K 766.490†	447.9	0.1935 mg/L	0.01053	9.675 mg/L	0.5263	5.44%
Mg 279.077†	2225.3	1.405 mg/L	0.0066	70.23 mg/L	0.332	0.47%
Mn 257.610†	3187.2	0.06990 mg/L	0.000533	3.495 mg/L	0.0266	0.76%
Mo 202.031†	79.5	0.00284 mg/L	0.000174	0.1418 mg/L	0.00869	6.13%
Na 589.592†	26839.3	2.049 mg/L	0.0176	102.5 mg/L	0.88	0.86%
Na 330.237†	89.5	2.712 mg/L	0.3065	135.6 mg/L	15.33	11.30%
Ni 231.604†	13.5	0.00271 mg/L	0.001248	0.1355 mg/L	0.06242	46.06%
Pb 220.353†	-9.2	-0.00081 mg/L	0.000554	-0.04028 mg/L	0.027712	68.80%
Sb 206.836†	-0.8	-0.00040 mg/L	0.001087	-0.01980 mg/L	0.054366	274.57%
Se 196.026†	-20.4	-0.01201 mg/L	0.001616	-0.6005 mg/L	0.08079	13.45%
Si 288.158†	406.3	0.1716 mg/L	0.00048	8.581 mg/L	0.0242	0.28%
Sn 189.927†	-67.4	-0.00710 mg/L	0.000312	-0.3551 mg/L	0.01559	4.39%
Sr 421.552†	583299.4	0.6064 mg/L	0.00138	30.32 mg/L	0.069	0.23%
Ti 334.903†	2423.0	0.09638 mg/L	0.001010	4.819 mg/L	0.0505	1.05%
Tl 190.801†	16.9	0.00639 mg/L	0.001438	0.3197 mg/L	0.07189	22.49%
V 292.402†	646.1	0.00481 mg/L	0.000175	0.2404 mg/L	0.00875	3.64%
Zn 206.200†	37.6	0.00804 mg/L	0.000016	0.4021 mg/L	0.00082	0.20%

Sequence No.: 7

Sample ID: VS82 C SWC

Analyst: BA

Dilution: 10.000000X

Autosampler Location: 338

Date Collected: 11/28/2012 2:10:08 PM

Data Type: Original

Nebulizer Parameters: VS82 C SWC

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: VS82 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2794947.2	98.93	%	0.257				0.26%
ScR 361.383	383348.9	101.4	%	0.63				0.62%
Ag 328.068†	-375.5	-0.00197	mg/L	0.000160	-0.01970	mg/L	0.001599	8.11%
Al 308.215†	11616.8	6.345	mg/L	0.0249	63.45	mg/L	0.249	0.39%
As 188.979†	37.5	0.01205	mg/L	0.001008	0.1205	mg/L	0.01008	8.36%
B 249.677†	40.5	0.00465	mg/L	0.000453	0.04646	mg/L	0.004533	9.76%
Ba 233.527†	105.1	0.01726	mg/L	0.001060	0.1726	mg/L	0.01060	6.14%
Be 313.042†	141.8	0.00019	mg/L	0.000017	0.00187	mg/L	0.000166	8.91%
Ca 317.933†	5500288.5	332.2	mg/L	4.00	3322	mg/L	40.02	1.20%
Cd 228.802†	380.4	0.01175	mg/L	0.000020	0.1175	mg/L	0.00020	0.17%
Co 228.616†	211.8	0.00372	mg/L	0.000023	0.03723	mg/L	0.000230	0.62%
Cr 267.716†	273.1	0.03226	mg/L	0.000352	0.3226	mg/L	0.00352	1.09%
Cu 324.752†	2914.6	0.01088	mg/L	0.000118	0.1088	mg/L	0.00118	1.08%
Fe 273.955†	22777.3	13.53	mg/L	0.083	135.3	mg/L	0.83	0.61%
K 766.490†	2287.2	0.9881	mg/L	0.01677	9.881	mg/L	0.1677	1.70%
Mg 279.077†	10779.9	6.804	mg/L	0.0302	68.04	mg/L	0.302	0.44%
Mn 257.610†	15315.2	0.3359	mg/L	0.00190	3.359	mg/L	0.0190	0.56%
Mo 202.031†	126.8	0.00210	mg/L	0.000226	0.02100	mg/L	0.002255	10.74%
Na 589.592†	134865.6	10.30	mg/L	0.021	103.0	mg/L	0.21	0.20%
Na 330.237†	374.7	11.37	mg/L	0.102	113.7	mg/L	1.02	0.90%
Ni 231.604†	70.3	0.01410	mg/L	0.000535	0.1410	mg/L	0.00535	3.79%
Pb 220.353†	2.3	0.00126	mg/L	0.001191	0.01260	mg/L	0.011908	94.51%
Sb 206.836†	-12.1	-0.00373	mg/L	0.002572	-0.03731	mg/L	0.025719	68.93%
Se 196.026†	-32.8	-0.01929	mg/L	0.005111	-0.1929	mg/L	0.05111	26.50%
Si 288.158†	1932.3	0.8158	mg/L	0.00855	8.158	mg/L	0.0855	1.05%
Sn 189.927†	-112.0	0.01540	mg/L	0.001569	0.1540	mg/L	0.01569	10.19%
Sr 421.552†	2870563.6	2.984	mg/L	0.0342	29.84	mg/L	0.342	1.15%
Ti 334.903†	11500.2	0.4569	mg/L	0.00118	4.569	mg/L	0.0118	0.26%
Tl 190.801†	25.5	0.01056	mg/L	0.001516	0.1056	mg/L	0.01516	14.36%
V 292.402†	3403.3	0.02537	mg/L	0.000132	0.2537	mg/L	0.00132	0.52%
Zn 206.200†	171.4	0.03662	mg/L	0.000504	0.3662	mg/L	0.00504	1.38%

Sequence No.: 8
 Sample ID: VS82 CDUP SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 339
 Date Collected: 11/28/2012 2:14:27 PM
 Data Type: Original

Nebulizer Parameters: VS82 CDUP SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 CDUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2787314.8	98.66	%	0.469			0.48%
ScR 361.383	382501.9	101.2	%	0.93			0.92%
Ag 328.068†	-382.4	-0.00201	mg/L	0.000096	-0.02006 mg/L	0.000959	4.78%
Al 308.215†	12821.0	7.002	mg/L	0.0281	70.02 mg/L	0.281	0.40%
As 188.979†	26.3	0.00991	mg/L	0.000949	0.09910 mg/L	0.009489	9.57%
B 249.677†	14.7	0.00169	mg/L	0.000515	0.01690 mg/L	0.005150	30.47%
Ba 233.527†	78.3	0.01270	mg/L	0.000551	0.1270 mg/L	0.00551	4.34%
Be 313.042†	134.5	0.00017	mg/L	0.000019	0.00174 mg/L	0.000188	10.83%
Ca 317.933†	6075887.5	367.0	mg/L	1.85	3670 mg/L	18.52	0.50%
Cd 228.802†	383.8	0.01191	mg/L	0.000064	0.1191 mg/L	0.00064	0.54%
Co 228.616†	244.7	0.00415	mg/L	0.000133	0.04152 mg/L	0.001330	3.20%
Cr 267.716†	212.0	0.02389	mg/L	0.000830	0.2389 mg/L	0.00830	3.47%
Cu 324.752†	3843.5	0.01406	mg/L	0.000165	0.1406 mg/L	0.00165	1.17%
Fe 273.955†	18613.9	11.06	mg/L	0.042	110.6 mg/L	0.42	0.38%
K 766.490†	1975.8	0.8536	mg/L	0.01032	8.536 mg/L	0.1032	1.21%
Mg 279.077†	11394.4	7.193	mg/L	0.0271	71.93 mg/L	0.271	0.38%
Mn 257.610†	16500.7	0.3618	mg/L	0.00127	3.618 mg/L	0.0127	0.35%
Mo 202.031†	136.0	0.00214	mg/L	0.000347	0.02137 mg/L	0.003474	16.26%
Na 589.592†	132611.2	10.13	mg/L	0.056	101.3 mg/L	0.56	0.56%
Na 330.237†	369.3	11.25	mg/L	0.105	112.5 mg/L	1.05	0.93%
Ni 231.604†	84.0	0.01684	mg/L	0.000608	0.1684 mg/L	0.00608	3.61%
Pb 220.353†	2.1	0.00149	mg/L	0.000119	0.01488 mg/L	0.001188	7.98%
Sb 206.836†	-10.9	-0.00322	mg/L	0.001121	-0.03219 mg/L	0.011207	34.81%
Se 196.026†	-29.9	-0.01760	mg/L	0.001682	-0.1760 mg/L	0.01682	9.56%
Si 288.158†	1896.9	0.8009	mg/L	0.00745	8.009 mg/L	0.0745	0.93%
Sn 189.927†	-120.7	0.01771	mg/L	0.001256	0.1771 mg/L	0.01256	7.10%
Sr 421.552†	2931362.3	3.048	mg/L	0.0127	30.48 mg/L	0.127	0.42%
Ti 334.903†	15913.2	0.6367	mg/L	0.00377	6.367 mg/L	0.0377	0.59%
Tl 190.801†	30.0	0.01191	mg/L	0.001255	0.1191 mg/L	0.01255	10.54%
V 292.402†	3825.8	0.02854	mg/L	0.000248	0.2854 mg/L	0.00248	0.87%
Zn 206.200†	230.9	0.04933	mg/L	0.000798	0.4933 mg/L	0.00798	1.62%

Sequence No.: 9
 Sample ID: VS82 CSPK SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 340
 Date Collected: 11/28/2012 2:18:46 PM
 Data Type: Original

Nebulizer Parameters: VS82 CSPK SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 CSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2818493.6	99.76	%	0.122			0.12%
ScR 361.383	386949.5	102.4	%	0.21			0.21%
Ag 328.068†	20119.1	0.1060	mg/L	0.00056	1.060 mg/L	0.00056	0.53%
Al 308.215†	19457.5	10.63	mg/L	0.015	106.3 mg/L	0.15	0.14%
As 188.979†	860.0	0.4178	mg/L	0.00060	4.178 mg/L	0.00060	0.14%
B 249.677†	48.9	0.00541	mg/L	0.000499	0.05408 mg/L	0.0004987	9.22%
Ba 233.527†	2339.9	0.4311	mg/L	0.00186	4.311 mg/L	0.00186	0.43%
Be 313.042†	73559.7	0.1024	mg/L	0.00064	1.024 mg/L	0.00064	0.63%
Ca 317.933†	5457028.3	329.6	mg/L	2.08	3296 mg/L	20.79	0.63%
Cd 228.802†	4202.2	0.1296	mg/L	0.00011	1.296 mg/L	0.00011	0.08%
Co 228.616†	4755.3	0.1061	mg/L	0.00025	1.061 mg/L	0.00025	0.23%
Cr 267.716†	1150.1	0.1458	mg/L	0.00081	1.458 mg/L	0.00081	0.56%
Cu 324.752†	33947.1	0.1220	mg/L	0.00045	1.220 mg/L	0.00045	0.37%
Fe 273.955†	26479.5	15.73	mg/L	0.043	157.3 mg/L	0.43	0.27%
K 766.490†	7318.9	3.162	mg/L	0.0154	31.62 mg/L	0.154	0.49%
Mg 279.077†	15529.0	9.804	mg/L	0.0496	98.04 mg/L	0.496	0.51%
Mn 257.610†	21043.5	0.4619	mg/L	0.00211	4.619 mg/L	0.00211	0.46%
Mo 202.031†	128.5	0.00220	mg/L	0.000075	0.02199 mg/L	0.0000747	3.40%
Na 589.592†	155625.9	11.88	mg/L	0.045	118.8 mg/L	0.45	0.38%
Na 330.237†	430.0	13.10	mg/L	0.089	131.0 mg/L	0.89	0.68%
Ni 231.604†	618.4	0.1238	mg/L	0.00170	1.238 mg/L	0.00170	1.37%
Pb 220.353†	3772.9	0.4167	mg/L	0.00141	4.167 mg/L	0.00141	0.34%
Sb 206.836†	-2.2	-0.00115	mg/L	0.001032	-0.01151 mg/L	0.0010317	89.60%
Se 196.026†	664.7	0.3904	mg/L	0.00390	3.904 mg/L	0.00390	1.00%
Si 288.158†	1573.8	0.6648	mg/L	0.00207	6.648 mg/L	0.00207	0.31%
Sn 189.927†	315.2	0.1134	mg/L	0.00161	1.134 mg/L	0.00161	1.42%
Sr 421.552†	2958781.4	3.076	mg/L	0.00084	30.76 mg/L	0.00084	0.27%
Ti 334.903†	22126.3	0.8939	mg/L	0.00330	8.939 mg/L	0.00330	0.37%
Tl 190.801†	1100.1	0.3991	mg/L	0.00129	3.991 mg/L	0.00129	0.32%
V 292.402†	17594.8	0.1336	mg/L	0.00069	1.336 mg/L	0.00069	0.52%
Zn 206.200†	691.1	0.1477	mg/L	0.00117	1.477 mg/L	0.00117	0.79%

Sequence No.: 10
Sample ID: VS82 CPOST SWC
Analyst: BA
Dilution: 10.00000X

Del

Autosampler Location: 341
Date Collected: 11/28/2012 2:23:06 PM
Data Type: Original

Nebulizer Parameters: VS82 CPOST SWC

Analyte Back Pressure Flow
All 214.0 kPa 0.75 L/min

Mean Data: VS82 CPOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2792050.1	98.82	%	0.234			0.24%
ScR 361.383	381180.4	100.9	%	0.12			0.12%
Ag 328.068†	93714.7	0.4937	mg/L	0.00056	4.937 mg/L	0.0056	0.11%
Al 308.215†	15811.4	8.629	mg/L	0.0077	86.29 mg/L	0.077	0.09%
As 188.979†	4245.7	2.023	mg/L	0.0051	20.23 mg/L	0.051	0.25%
B 249.677†	44.0	0.00406	mg/L	0.001032	0.04060 mg/L	0.010315	25.41%
Ba 233.527†	10592.7	1.961	mg/L	0.0025	19.61 mg/L	0.025	0.13%
Be 313.042†	355703.2	0.4952	mg/L	0.00137	4.952 mg/L	0.0137	0.28%
Ca 317.933†	5676430.9	342.9	mg/L	2.51	3429 mg/L	25.05	0.73%
Cd 228.802†	17426.7	0.5356	mg/L	0.00126	5.356 mg/L	0.0126	0.24%
Co 228.616†	21515.6	0.4879	mg/L	0.00091	4.879 mg/L	0.0091	0.19%
Cr 267.716†	4015.7	0.5164	mg/L	0.00206	5.164 mg/L	0.0206	0.40%
Cu 324.752†	147189.1	0.5277	mg/L	0.00108	5.277 mg/L	0.0108	0.21%
Fe 273.955†	25901.6	15.38	mg/L	0.028	153.8 mg/L	0.28	0.18%
K 766.490†	25675.2	11.09	mg/L	0.067	110.9 mg/L	0.67	0.61%
Mg 279.077†	27217.7	17.19	mg/L	0.018	171.9 mg/L	0.18	0.10%
Mn 257.610†	36570.9	0.8036	mg/L	0.00077	8.036 mg/L	0.0077	0.10%
Mo 202.031†	138.6	0.00249	mg/L	0.000175	0.02485 mg/L	0.001745	7.02%
Na 589.592†	267761.2	20.44	mg/L	0.039	204.4 mg/L	0.39	0.19%
Na 330.237†	718.5	21.56	mg/L	0.241	215.6 mg/L	2.41	1.12%
Ni 231.604†	2470.4	0.4946	mg/L	0.00063	4.946 mg/L	0.0063	0.13%
Pb 220.353†	18149.2	1.997	mg/L	0.0044	19.97 mg/L	0.044	0.22%
Sb 206.836†	18.8	-0.00032	mg/L	0.001889	-0.00323 mg/L	0.018893	585.24%
Se 196.026†	3408.2	2.002	mg/L	0.0066	20.02 mg/L	0.066	0.33%
Si 288.158†	1917.7	0.8128	mg/L	0.00285	8.128 mg/L	0.0285	0.35%
Sn 189.927†	-110.4	0.01714	mg/L	0.000894	0.1714 mg/L	0.00894	5.22%
Sr 421.552†	3358966.7	3.492	mg/L	0.0187	34.92 mg/L	0.187	0.53%
Ti 334.903†	11512.1	0.4568	mg/L	0.00073	4.568 mg/L	0.0073	0.16%
Tl 190.801†	5207.7	1.884	mg/L	0.0019	18.84 mg/L	0.019	0.10%
V 292.402†	68017.5	0.5192	mg/L	0.00089	5.192 mg/L	0.0089	0.17%
Zn 206.200†	2397.8	0.5124	mg/L	0.00130	5.124 mg/L	0.0130	0.25%

Sequence No.: 11
 Sample ID: CV 7
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 2:27:26 PM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2888508.7	102.2 %	0.59			0.58%
ScR 361.383	383804.2	101.6 %	0.49			0.48%
Ag 328.068†	193067.1	1.017 mg/L	0.0058	1.017 mg/L	0.0058	0.57%
Al 308.215†	3687.0	1.980 mg/L	0.0058	1.980 mg/L	0.0058	0.29%
As 188.979†	4162.5	2.014 mg/L	0.0085	2.014 mg/L	0.0085	0.42%
B 249.677†	8645.2	0.9924 mg/L	0.00179	0.9924 mg/L	0.00179	0.18%
Ba 233.527†	5382.1	0.9970 mg/L	0.00267	0.9970 mg/L	0.00267	0.27%
Be 313.042†	712000.1	0.9911 mg/L	0.00173	0.9911 mg/L	0.00173	0.17%
Ca 317.933†	34814.2	2.103 mg/L	0.0071	2.103 mg/L	0.0071	0.34%
Cd 228.802†	32286.1	1.004 mg/L	0.0059	1.004 mg/L	0.0059	0.59%
Co 228.616†	43293.9	0.9823 mg/L	0.00421	0.9823 mg/L	0.00421	0.43%
Cr 267.716†	7690.6	0.9967 mg/L	0.00271	0.9967 mg/L	0.00271	0.27%
Cu 324.752†	280435.4	1.004 mg/L	0.0062	1.004 mg/L	0.0062	0.61%
Fe 273.955†	3481.2	2.061 mg/L	0.0084	2.061 mg/L	0.0084	0.41%
K 766.490†	46154.4	19.94 mg/L	0.046	19.94 mg/L	0.046	0.23%
Mg 279.077†	3172.7	2.012 mg/L	0.0105	2.012 mg/L	0.0105	0.52%
Mn 257.610†	45711.4	1.006 mg/L	0.0032	1.006 mg/L	0.0032	0.32%
Mo 202.031†	23033.9	1.034 mg/L	0.0036	1.034 mg/L	0.0036	0.35%
Na 589.592†	660338.1	50.42 mg/L	0.090	50.42 mg/L	0.090	0.18%
Na 330.237†	1726.5	51.83 mg/L	0.189	51.83 mg/L	0.189	0.36%
Ni 231.604†	4986.6	1.000 mg/L	0.0017	1.000 mg/L	0.0017	0.17%
Pb 220.353†	18777.3	2.065 mg/L	0.0051	2.065 mg/L	0.0051	0.25%
Sb 206.836†	7782.0	2.123 mg/L	0.0049	2.123 mg/L	0.0049	0.23%
Se 196.026†	3379.0	1.984 mg/L	0.0045	1.984 mg/L	0.0045	0.23%
Si 288.158†	4876.7	2.056 mg/L	0.0137	2.056 mg/L	0.0137	0.67%
Sn 189.927†	4486.6	1.034 mg/L	0.0025	1.034 mg/L	0.0025	0.24%
Sr 421.552†	951030.5	0.9888 mg/L	0.00161	0.9888 mg/L	0.00161	0.16%
Ti 334.903†	24667.4	1.013 mg/L	0.0024	1.013 mg/L	0.0024	0.23%
Tl 190.801†	5469.9	1.974 mg/L	0.0035	1.974 mg/L	0.0035	0.18%
V 292.402†	131869.4	1.008 mg/L	0.0051	1.008 mg/L	0.0051	0.51%
Zn 206.200†	4884.1	1.043 mg/L	0.0060	1.043 mg/L	0.0060	0.57%

Sequence No.: 12
Sample ID: CB 7
Analyst: BA
Dilution: 1.000000X

Autosampler Location: 1
Date Collected: 11/28/2012 2:31:47 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2922679.3	103.4	%	0.40			0.38%
ScR 361.383	390453.6	103.3	%	0.94			0.91%
Ag 328.068†	5.3	0.00003	mg/L	0.000274	0.00003	mg/L	0.000274 974.65%
Al 308.215†	13.6	0.00741	mg/L	0.005487	0.00741	mg/L	0.005487 74.00%
As 188.979†	1.1	0.00056	mg/L	0.003026	0.00056	mg/L	0.003026 543.70%
B 249.677†	7.7	0.00089	mg/L	0.001045	0.00089	mg/L	0.001045 117.89%
Ba 233.527†	2.5	0.00047	mg/L	0.000772	0.00047	mg/L	0.000772 165.47%
Be 313.042†	41.7	0.00006	mg/L	0.000034	0.00006	mg/L	0.000034 58.33%
Ca 317.933†	69.0	0.00417	mg/L	0.000542	0.00417	mg/L	0.000542 13.00%
Cd 228.802†	-2.4	-0.00008	mg/L	0.000086	-0.00008	mg/L	0.000086 105.78%
Co 228.616†	6.8	0.00015	mg/L	0.000048	0.00015	mg/L	0.000048 31.31%
Cr 267.716†	-0.1	-0.00002	mg/L	0.000834	-0.00002	mg/L	0.000834 >999.9%
Cu 324.752†	-6.1	-0.00002	mg/L	0.000078	-0.00002	mg/L	0.000078 350.51%
Fe 273.955†	1.6	0.00095	mg/L	0.001553	0.00095	mg/L	0.001553 164.11%
K 766.490†	-8.9	-0.00383	mg/L	0.009058	-0.00383	mg/L	0.009058 236.44%
Mg 279.077†	5.2	0.00331	mg/L	0.004115	0.00331	mg/L	0.004115 124.44%
Mn 257.610†	4.9	0.00011	mg/L	0.000056	0.00011	mg/L	0.000056 51.90%
Mo 202.031†	19.0	0.00085	mg/L	0.000058	0.00085	mg/L	0.000058 6.86%
Na 589.592†	209.5	0.01600	mg/L	0.001811	0.01600	mg/L	0.001811 11.32%
Na 330.237†	15.7	0.4714	mg/L	0.23039	0.4714	mg/L	0.23039 48.87%
Ni 231.604†	-9.1	-0.00182	mg/L	0.000453	-0.00182	mg/L	0.000453 24.88%
Pb 220.353†	-2.3	-0.00025	mg/L	0.000608	-0.00025	mg/L	0.000608 247.44%
Sb 206.836†	-0.1	-0.00004	mg/L	0.000944	-0.00004	mg/L	0.000944 >999.9%
Se 196.026†	4.3	0.00254	mg/L	0.001853	0.00254	mg/L	0.001853 73.06%
Si 288.158†	2.2	0.00093	mg/L	0.003431	0.00093	mg/L	0.003431 368.84%
Sn 189.927†	-1.8	-0.00042	mg/L	0.000663	-0.00042	mg/L	0.000663 158.26%
Sr 421.552†	148.8	0.00015	mg/L	0.000027	0.00015	mg/L	0.000027 17.42%
Ti 334.903†	10.9	0.00045	mg/L	0.000348	0.00045	mg/L	0.000348 77.93%
Tl 190.801†	6.1	0.00221	mg/L	0.000933	0.00221	mg/L	0.000933 42.14%
V 292.402†	8.6	0.00007	mg/L	0.000104	0.00007	mg/L	0.000104 158.51%
Zn 206.200†	-1.1	-0.00024	mg/L	0.000187	-0.00024	mg/L	0.000187 77.83%

Sequence No.: 13
 Sample ID: VS82 G SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 342
 Date Collected: 11/28/2012 2:36:03 PM
 Data Type: Original

Nebulizer Parameters: VS82 G SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2801549.1	99.16	%	0.147			0.15%
ScR 361.383	385112.0	101.9	%	0.32			0.32%
Ag 328.068†	-269.0	-0.00141	mg/L	0.000307	-0.01405 mg/L	0.003073	21.86%
Al 308.215†	18330.9	10.01	mg/L	0.011	100.1 mg/L	0.11	0.11%
As 188.979†	13.6	0.01266	mg/L	0.002369	0.1266 mg/L	0.02369	18.72%
B 249.677†	61.2	0.00703	mg/L	0.000906	0.07029 mg/L	0.009060	12.89%
Ba 233.527†	129.7	0.02153	mg/L	0.000388	0.2153 mg/L	0.00388	1.80%
Be 313.042†	194.6	0.00025	mg/L	0.000010	0.00253 mg/L	0.000101	3.99%
Ca 317.933†	4850498.4	293.0	mg/L	1.91	2930 mg/L	19.07	0.65%
Cd 228.802†	350.3	0.01087	mg/L	0.000103	0.1087 mg/L	0.00103	0.95%
Co 228.616†	320.0	0.00550	mg/L	0.000203	0.05501 mg/L	0.002032	3.69%
Cr 267.716†	341.4	0.04143	mg/L	0.000944	0.4143 mg/L	0.00944	2.28%
Cu 324.752†	3599.6	0.01333	mg/L	0.000080	0.1333 mg/L	0.00080	0.60%
Fe 273.955†	25688.8	15.26	mg/L	0.003	152.6 mg/L	0.03	0.02%
K 766.490†	2929.9	1.266	mg/L	0.0130	12.66 mg/L	0.130	1.02%
Mg 279.077†	12833.1	8.100	mg/L	0.0149	81.00 mg/L	0.149	0.18%
Mn 257.610†	15657.3	0.3435	mg/L	0.00047	3.435 mg/L	0.0047	0.14%
Mo 202.031†	131.4	0.00273	mg/L	0.000161	0.02728 mg/L	0.001612	5.91%
Na 589.592†	125789.7	9.604	mg/L	0.0365	96.04 mg/L	0.365	0.38%
Na 330.237†	353.4	10.80	mg/L	0.216	108.0 mg/L	2.16	2.00%
Ni 231.604†	133.1	0.02670	mg/L	0.000220	0.2670 mg/L	0.00220	0.82%
Pb 220.353†	9.8	0.00290	mg/L	0.000419	0.02904 mg/L	0.004188	14.42%
Sb 206.836†	-3.4	-0.00128	mg/L	0.001256	-0.01277 mg/L	0.012560	98.34%
Se 196.026†	-28.9	-0.01700	mg/L	0.000937	-0.1700 mg/L	0.00937	5.51%
Si 288.158†	1631.6	0.6892	mg/L	0.00312	6.892 mg/L	0.0312	0.45%
Sn 189.927†	-100.4	0.01325	mg/L	0.000990	0.1325 mg/L	0.00990	7.47%
Sr 421.552†	2604272.1	2.708	mg/L	0.0124	27.08 mg/L	0.124	0.46%
Ti 334.903†	19791.4	0.7997	mg/L	0.00155	7.997 mg/L	0.0155	0.19%
Tl 190.801†	25.2	0.01057	mg/L	0.001754	0.1057 mg/L	0.01754	16.59%
V 292.402†	5313.7	0.03970	mg/L	0.000128	0.3970 mg/L	0.00128	0.32%
Zn 206.200†	231.4	0.04944	mg/L	0.000850	0.4944 mg/L	0.00850	1.72%

Sequence No.: 14
 Sample ID: VS82 H SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 343
 Date Collected: 11/28/2012 2:40:24 PM
 Data Type: Original

Nebulizer Parameters: VS82 H SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VS82 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2868944.2	101.5	%	0.25			0.24%
ScR 361.383	381421.1	100.9	%	0.55			0.55%
Ag 328.068†	-112.4	-0.00058	mg/L	0.000238	-0.00577 mg/L	0.002383	41.32%
Al 308.215†	26813.4	14.65	mg/L	0.089	146.5 mg/L	0.89	0.60%
As 188.979†	-22.1	0.01374	mg/L	0.001226	0.1374 mg/L	0.01226	8.92%
B 249.677†	58.7	0.00673	mg/L	0.000364	0.06733 mg/L	0.003639	5.41%
Ba 233.527†	213.9	0.03617	mg/L	0.000621	0.3617 mg/L	0.00621	1.72%
Be 313.042†	238.8	0.00031	mg/L	0.000021	0.00307 mg/L	0.000210	6.83%
Ca 317.933†	2895283.7	174.9	mg/L	0.33	1749 mg/L	3.32	0.19%
Cd 228.802†	68.6	0.00206	mg/L	0.000068	0.02060 mg/L	0.000678	3.29%
Co 228.616†	442.8	0.00745	mg/L	0.000118	0.07450 mg/L	0.001184	1.59%
Cr 267.716†	475.0	0.05995	mg/L	0.000776	0.5995 mg/L	0.00776	1.29%
Cu 324.752†	4692.7	0.01742	mg/L	0.000176	0.1742 mg/L	0.00176	1.01%
Fe 273.955†	35688.7	21.20	mg/L	0.058	212.0 mg/L	0.58	0.27%
K 766.490†	3089.3	1.335	mg/L	0.0056	13.35 mg/L	0.056	0.42%
Mg 279.077†	15004.6	9.469	mg/L	0.0678	94.69 mg/L	0.678	0.72%
Mn 257.610†	16005.6	0.3515	mg/L	0.00183	3.515 mg/L	0.0183	0.52%
Mo 202.031†	107.4	0.00293	mg/L	0.000134	0.02926 mg/L	0.001338	4.57%
Na 589.592†	84215.8	6.430	mg/L	0.0340	64.30 mg/L	0.340	0.53%
Na 330.237†	227.1	7.086	mg/L	0.3068	70.86 mg/L	3.068	4.33%
Ni 231.604†	177.0	0.03550	mg/L	0.001623	0.3550 mg/L	0.01623	4.57%
Pb 220.353†	1926.4	0.2145	mg/L	0.00037	2.145 mg/L	0.0037	0.17%
Sb 206.836†	5.2	0.00117	mg/L	0.000664	0.01167 mg/L	0.006635	56.87%
Se 196.026†	-17.5	-0.01033	mg/L	0.004787	-0.1033 mg/L	0.04787	46.33%
Si 288.158†	1646.3	0.6954	mg/L	0.00434	6.954 mg/L	0.0434	0.62%
Sn 189.927†	-49.1	0.01051	mg/L	0.000530	0.1051 mg/L	0.00530	5.05%
Sr 421.552†	1488749.1	1.548	mg/L	0.0010	15.48 mg/L	0.010	0.06%
Ti 334.903†	29374.2	1.199	mg/L	0.00079	11.99 mg/L	0.079	0.66%
Tl 190.801†	19.2	0.00898	mg/L	0.000949	0.08979 mg/L	0.009488	10.57%
V 292.402†	7002.2	0.05219	mg/L	0.000186	0.5219 mg/L	0.00186	0.36%
Zn 206.200†	295.0	0.06303	mg/L	0.001171	0.6303 mg/L	0.01171	1.86%

Sequence No.: 15
 Sample ID: VS82 I SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 344
 Date Collected: 11/28/2012 2:44:42 PM
 Data Type: Original

Nebulizer Parameters: VS82 I SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 I SWC

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2871235.6	101.6	%	0.51				0.51%
ScR 361.383	381675.2	101.0	%	0.45				0.45%
Ag 328.068†	-97.6	-0.00050	mg/L	0.000130	-0.00499	mg/L	0.001304	26.16%
Al 308.215†	25544.4	13.95	mg/L	0.149	139.5	mg/L	1.49	1.07%
As 188.979†	-4.9	0.01635	mg/L	0.001891	0.1635	mg/L	0.01891	11.57%
B 249.677†	63.0	0.00722	mg/L	0.000136	0.07223	mg/L	0.001362	1.89%
Ba 233.527†	244.4	0.04181	mg/L	0.000770	0.4181	mg/L	0.00770	1.84%
Be 313.042†	217.2	0.00028	mg/L	0.000012	0.00280	mg/L	0.000123	4.38%
Ca 317.933†	2647733.4	159.9	mg/L	0.27	1599	mg/L	2.73	0.17%
Cd 228.802†	205.2	0.00631	mg/L	0.000126	0.06307	mg/L	0.001259	2.00%
Co 228.616†	427.7	0.00754	mg/L	0.000219	0.07544	mg/L	0.002192	2.90%
Cr 267.716†	437.8	0.05527	mg/L	0.001130	0.5527	mg/L	0.01130	2.04%
Cu 324.752†	4866.7	0.01809	mg/L	0.000167	0.1809	mg/L	0.00167	0.92%
Fe 273.955†	35684.6	21.20	mg/L	0.203	212.0	mg/L	2.03	0.96%
K 766.490†	3213.5	1.388	mg/L	0.0092	13.88	mg/L	0.092	0.66%
Mg 279.077†	14952.2	9.436	mg/L	0.0765	94.36	mg/L	0.765	0.81%
Mn 257.610†	15077.6	0.3311	mg/L	0.00252	3.311	mg/L	0.0252	0.76%
Mo 202.031†	102.1	0.00285	mg/L	0.000305	0.02853	mg/L	0.003051	10.69%
Na 589.592†	99640.7	7.608	mg/L	0.0415	76.08	mg/L	0.415	0.55%
Na 330.237†	268.1	8.269	mg/L	0.0960	82.69	mg/L	0.960	1.16%
Ni 231.604†	182.6	0.03662	mg/L	0.000459	0.3662	mg/L	0.00459	1.25%
Pb 220.353†	14.2	0.00411	mg/L	0.000170	0.04110	mg/L	0.001698	4.13%
Sb 206.836†	-3.0	-0.00117	mg/L	0.001319	-0.01166	mg/L	0.013194	113.15%
Se 196.026†	-21.2	-0.01247	mg/L	0.001296	-0.1247	mg/L	0.01296	10.40%
Si 288.158†	1798.4	0.7596	mg/L	0.00107	7.596	mg/L	0.0107	0.14%
Sn 189.927†	-84.1	0.00058	mg/L	0.000921	0.00576	mg/L	0.009214	160.00%
Sr 421.552†	1352703.7	1.406	mg/L	0.0043	14.06	mg/L	0.043	0.30%
Ti 334.903†	23875.7	0.9740	mg/L	0.00923	9.740	mg/L	0.0923	0.95%
Tl 190.801†	17.4	0.00832	mg/L	0.001882	0.08316	mg/L	0.018821	22.63%
V 292.402†	7056.6	0.05271	mg/L	0.000256	0.5271	mg/L	0.00256	0.48%
Zn 206.200†	291.9	0.06237	mg/L	0.000416	0.6237	mg/L	0.00416	0.67%

Sequence No.: 16
 Sample ID: VS82 J SWC
 Analyst: BA
 Dilution: 10.000000X

Autosampler Location: 345
 Date Collected: 11/28/2012 2:48:59 PM
 Data Type: Original

Nebulizer Parameters: VS82 J SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VS82 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2815982.2	99.67 %	0.575			0.58%
ScR 361.383	390098.3	103.2 %	0.18			0.17%
Ag 328.068†	-279.3	-0.00146 mg/L	0.000365	-0.01465 mg/L	0.003648	24.90%
Al 308.215†	9589.9	5.238 mg/L	0.0099	52.38 mg/L	0.099	0.19%
As 188.979†	36.9	0.01252 mg/L	0.001374	0.1252 mg/L	0.01374	10.98%
B 249.677†	30.5	0.00350 mg/L	0.001043	0.03504 mg/L	0.010434	29.78%
Ba 233.527†	78.9	0.01339 mg/L	0.000300	0.1339 mg/L	0.00300	2.24%
Be 313.042†	110.2	0.00014 mg/L	0.000024	0.00144 mg/L	0.000243	16.91%
Ca 317.933†	5348823.9	323.1 mg/L	0.14	3231 mg/L	1.45	0.04%
Cd 228.802†	536.1	0.01671 mg/L	0.000152	0.1671 mg/L	0.00152	0.91%
Co 228.616†	170.7	0.00285 mg/L	0.000092	0.02854 mg/L	0.000925	3.24%
Cr 267.716†	344.2	0.04137 mg/L	0.000145	0.4137 mg/L	0.00145	0.35%
Cu 324.752†	2406.3	0.00879 mg/L	0.000277	0.08791 mg/L	0.002772	3.15%
Fe 273.955†	12488.7	7.418 mg/L	0.0146	74.18 mg/L	0.146	0.20%
K 766.490†	1923.6	0.8310 mg/L	0.00733	8.310 mg/L	0.0733	0.88%
Mg 279.077†	10249.5	6.472 mg/L	0.0142	64.72 mg/L	0.142	0.22%
Mn 257.610†	8503.5	0.1861 mg/L	0.00079	1.861 mg/L	0.0079	0.43%
Mo 202.031†	126.5	0.00218 mg/L	0.000070	0.02182 mg/L	0.000699	3.20%
Na 589.592†	137334.4	10.49 mg/L	0.011	104.9 mg/L	0.11	0.10%
Na 330.237†	383.1	11.63 mg/L	0.292	116.3 mg/L	2.92	2.51%
Ni 231.604†	81.5	0.01633 mg/L	0.000509	0.1633 mg/L	0.00509	3.12%
Pb 220.353†	-4.6	0.00051 mg/L	0.000777	0.00507 mg/L	0.007769	153.27%
Sb 206.836†	-3.7	-0.00160 mg/L	0.000679	-0.01604 mg/L	0.006793	42.35%
Se 196.026†	-36.4	-0.02141 mg/L	0.003001	-0.2141 mg/L	0.03001	14.02%
Si 288.158†	1455.2	0.6146 mg/L	0.00195	6.146 mg/L	0.0195	0.32%
Sn 189.927†	-108.7	0.01502 mg/L	0.001439	0.1502 mg/L	0.01439	9.58%
Sr 421.552†	2856943.0	2.970 mg/L	0.0044	29.70 mg/L	0.044	0.15%
Ti 334.903†	11698.6	0.4655 mg/L	0.00026	4.655 mg/L	0.0026	0.06%
Tl 190.801†	29.5	0.01138 mg/L	0.002622	0.1138 mg/L	0.02622	23.05%
V 292.402†	2720.4	0.02040 mg/L	0.000086	0.2040 mg/L	0.00086	0.42%
Zn 206.200†	143.0	0.03054 mg/L	0.000504	0.3054 mg/L	0.00504	1.65%

Sequence No.: 17
 Sample ID: VS82 K SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 346
 Date Collected: 11/28/2012 2:53:18 PM
 Data Type: Original

Nebulizer Parameters: VS82 K SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 K SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2904259.7	102.8	%	0.67				0.65%
ScR 361.383	386673.0	102.3	%	0.43				0.42%
Ag 328.068†	-105.3	-0.00054	mg/L	0.000164	-0.00539	mg/L	0.001636	30.37%
Al 308.215†	24132.4	13.18	mg/L	0.058	131.8	mg/L	0.58	0.44%
As 188.979†	-26.5	0.01442	mg/L	0.002102	0.1442	mg/L	0.02102	14.58%
B 249.677†	96.6	0.01108	mg/L	0.000695	0.1108	mg/L	0.00695	6.27%
Ba 233.527†	207.4	0.03494	mg/L	0.000407	0.3494	mg/L	0.00407	1.17%
Be 313.042†	204.1	0.00026	mg/L	0.000006	0.00259	mg/L	0.000063	2.44%
Ca 317.933†	1699286.6	102.6	mg/L	0.18	1026	mg/L	1.77	0.17%
Cd 228.802†	24.5	0.00068	mg/L	0.000141	0.00681	mg/L	0.001412	20.74%
Co 228.616†	411.3	0.00683	mg/L	0.000070	0.06832	mg/L	0.000703	1.03%
Cr 267.716†	323.1	0.04101	mg/L	0.000358	0.4101	mg/L	0.00358	0.87%
Cu 324.752†	3973.8	0.01486	mg/L	0.000035	0.1486	mg/L	0.00035	0.24%
Fe 273.955†	35743.0	21.23	mg/L	0.025	212.3	mg/L	0.25	0.12%
K 766.490†	3526.9	1.524	mg/L	0.0095	15.24	mg/L	0.095	0.62%
Mg 279.077†	13425.9	8.472	mg/L	0.0364	84.72	mg/L	0.364	0.43%
Mn 257.610†	13591.6	0.2986	mg/L	0.00056	2.986	mg/L	0.0056	0.19%
Mo 202.031†	85.7	0.00274	mg/L	0.000245	0.02737	mg/L	0.002450	8.95%
Na 589.592†	89458.7	6.830	mg/L	0.0040	68.30	mg/L	0.040	0.06%
Na 330.237†	245.3	7.626	mg/L	0.1880	76.26	mg/L	1.880	2.47%
Ni 231.604†	160.8	0.03225	mg/L	0.000420	0.3225	mg/L	0.00420	1.30%
Pb 220.353†	49.3	0.00775	mg/L	0.000212	0.07754	mg/L	0.002116	2.73%
Sb 206.836†	-0.9	-0.00028	mg/L	0.000933	-0.00278	mg/L	0.009328	335.90%
Se 196.026†	-14.9	-0.00881	mg/L	0.000904	-0.08811	mg/L	0.009045	10.27%
Si 288.158†	2231.9	0.9422	mg/L	0.00344	9.422	mg/L	0.0344	0.36%
Sn 189.927†	-68.6	-0.00293	mg/L	0.001382	-0.02931	mg/L	0.013818	47.14%
Sr 421.552†	818473.0	0.8510	mg/L	0.00112	8.510	mg/L	0.0112	0.13%
Ti 334.903†	28139.0	1.152	mg/L	0.0045	11.52	mg/L	0.045	0.39%
Tl 190.801†	15.4	0.00758	mg/L	0.002059	0.07579	mg/L	0.020586	27.16%
V 292.402†	7275.8	0.05421	mg/L	0.000029	0.5421	mg/L	0.00029	0.05%
Zn 206.200†	265.1	0.05663	mg/L	0.000441	0.5663	mg/L	0.00441	0.78%

Sequence No.: 18
 Sample ID: VS82 L SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 347
 Date Collected: 11/28/2012 2:57:36 PM
 Data Type: Original

Nebulizer Parameters: VS82 L SWC

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: VS82 L SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	2860330.6	101.2 %		0.49			0.48%
ScR 361.383	383773.5	101.6 %		0.62			0.61%
Ag 328.068†	155.2	0.00083 mg/L		0.000112	0.00833 mg/L	0.001121	13.46%
Al 308.215†	22433.4	12.25 mg/L		0.066	122.5 mg/L	0.66	0.54%
As 188.979†	-36.5	0.01238 mg/L		0.001691	0.1238 mg/L	0.01691	13.65%
B 249.677†	127.7	0.01466 mg/L		0.000334	0.1466 mg/L	0.00334	2.28%
Ba 233.527†	148.4	0.02405 mg/L		0.000344	0.2405 mg/L	0.00344	1.43%
Be 313.042†	203.3	0.00026 mg/L		0.000004	0.00258 mg/L	0.000038	1.49%
Ca 317.933†	1099956.2	66.44 mg/L		0.209	664.4 mg/L	2.09	0.31%
Cd 228.802†	208.1	0.00650 mg/L		0.000075	0.06500 mg/L	0.000749	1.15%
Co 228.616†	408.9	0.00673 mg/L		0.000099	0.06733 mg/L	0.000988	1.47%
Cr 267.716†	699.6	0.09015 mg/L		0.001463	0.9015 mg/L	0.01463	1.62%
Cu 324.752†	4838.4	0.01794 mg/L		0.000082	0.1794 mg/L	0.00082	0.46%
Fe 273.955†	35357.8	21.00 mg/L		0.109	210.0 mg/L	1.09	0.52%
K 766.490†	3555.8	1.536 mg/L		0.0229	15.36 mg/L	0.229	1.49%
Mg 279.077†	13440.0	8.481 mg/L		0.0509	84.81 mg/L	0.509	0.60%
Mn 257.610†	11686.7	0.2569 mg/L		0.00193	2.569 mg/L	0.0193	0.75%
Mo 202.031†	77.8	0.00277 mg/L		0.000395	0.02769 mg/L	0.003952	14.27%
Na 589.592†	102221.9	7.805 mg/L		0.0245	78.05 mg/L	0.245	0.31%
Na 330.237†	269.7	8.362 mg/L		0.2554	83.62 mg/L	2.554	3.05%
Ni 231.604†	177.3	0.03555 mg/L		0.000587	0.3555 mg/L	0.00587	1.65%
Pb 220.353†	56.9	0.00846 mg/L		0.001196	0.08462 mg/L	0.011962	14.14%
Sb 206.836†	-3.8	-0.00174 mg/L		0.001217	-0.01744 mg/L	0.012171	69.78%
Se 196.026†	-10.6	-0.00628 mg/L		0.003000	-0.06279 mg/L	0.030003	47.78%
Si 288.158†	3242.9	1.369 mg/L		0.0128	13.69 mg/L	0.128	0.94%
Sn 189.927†	-59.6	-0.00533 mg/L		0.000150	-0.05333 mg/L	0.001502	2.82%
Sr 421.552†	493761.4	0.5134 mg/L		0.00192	5.134 mg/L	0.0192	0.37%
Ti 334.903†	28767.3	1.180 mg/L		0.0064	11.80 mg/L	0.064	0.55%
Tl 190.801†	12.1	0.00638 mg/L		0.000433	0.06377 mg/L	0.004332	6.79%
V 292.402†	6985.0	0.05219 mg/L		0.000408	0.5219 mg/L	0.00408	0.78%
Zn 206.200†	308.4	0.06588 mg/L		0.000597	0.6588 mg/L	0.00597	0.91%

Sequence No.: 19
 Sample ID: VS82 M SWC
 Analyst: BA
 Dilution: 10.000000X

Del

Autosampler Location: 348
 Date Collected: 11/28/2012 3:01:53 PM
 Data Type: Original

Nebulizer Parameters: VS82 M SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VS82 M SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2883986.5	102.1	%	0.34			0.33%
ScR 361.383	384666.2	101.8	%	1.08			1.06%
Ag 328.068†	-15.6	-0.00007	mg/L	0.000139	-0.00067	mg/L	0.001387 206.16%
Al 308.215†	24294.5	13.27	mg/L	0.112	132.7	mg/L	1.12 0.85%
As 188.979†	-30.1	0.01437	mg/L	0.000367	0.1437	mg/L	0.00367 2.55%
B 249.677†	115.0	0.01320	mg/L	0.000701	0.1320	mg/L	0.00701 5.31%
Ba 233.527†	156.1	0.02548	mg/L	0.000038	0.2548	mg/L	0.00038 0.15%
Be 313.042†	209.0	0.00027	mg/L	0.000022	0.00266	mg/L	0.000224 8.43%
Ca 317.933†	1491868.8	90.12	mg/L	0.359	901.2	mg/L	3.59 0.40%
Cd 228.802†	151.2	0.00469	mg/L	0.000162	0.04688	mg/L	0.001621 3.46%
Co 228.616†	398.0	0.00646	mg/L	0.000190	0.06462	mg/L	0.001900 2.94%
Cr 267.716†	1083.5	0.1397	mg/L	0.00216	1.397	mg/L	0.0216 1.55%
Cu 324.752†	4905.0	0.01818	mg/L	0.000069	0.1818	mg/L	0.00069 0.38%
Fe 273.955†	35289.0	20.96	mg/L	0.181	209.6	mg/L	1.81 0.86%
K 766.490†	3765.6	1.627	mg/L	0.0189	16.27	mg/L	0.189 1.16%
Mg 279.077†	13351.0	8.425	mg/L	0.0654	84.25	mg/L	0.654 0.78%
Mn 257.610†	13020.5	0.2861	mg/L	0.00245	2.861	mg/L	0.0245 0.86%
Mo 202.031†	89.4	0.00303	mg/L	0.000122	0.03030	mg/L	0.001216 4.01%
Na 589.592†	90275.9	6.893	mg/L	0.0084	68.93	mg/L	0.084 0.12%
Na 330.237†	244.1	7.593	mg/L	0.0857	75.93	mg/L	0.857 1.13%
Ni 231.604†	173.5	0.03478	mg/L	0.001388	0.3478	mg/L	0.01388 3.99%
Pb 220.353†	47.5	0.00777	mg/L	0.000813	0.07769	mg/L	0.008134 10.47%
Sb 206.836†	0.1	-0.00142	mg/L	0.000362	-0.01420	mg/L	0.003620 25.50%
Se 196.026†	-14.9	-0.00878	mg/L	0.001243	-0.08777	mg/L	0.012430 14.16%
Si 288.158†	2369.9	1.000	mg/L	0.0120	10.00	mg/L	0.120 1.20%
Sn 189.927†	-64.8	-0.00358	mg/L	0.000514	-0.03584	mg/L	0.005141 14.34%
Sr 421.552†	692455.1	0.7199	mg/L	0.00187	7.199	mg/L	0.0187 0.26%
Ti 334.903†	29079.3	1.191	mg/L	0.0110	11.91	mg/L	0.110 0.92%
Tl 190.801†	20.1	0.00925	mg/L	0.001099	0.09253	mg/L	0.010985 11.87%
V 292.402†	6880.8	0.05161	mg/L	0.000139	0.5161	mg/L	0.00139 0.27%
Zn 206.200†	321.9	0.06878	mg/L	0.000441	0.6878	mg/L	0.00441 0.64%

Sequence No.: 20
 Sample ID: VS82 E SWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 349
 Date Collected: 11/28/2012 3:06:10 PM
 Data Type: Original

Nebulizer Parameters: VS82 E SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VS82 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std. Dev.	Sample Conc. Units	Std. Dev.	RSD
ScA 357.253	2770728.5	98.07	%	0.058			0.06%
ScR 361.383	382704.7	101.3	%	1.04			1.03%
Ag 328.068†	-299.4	-0.00155	mg/L	0.000123	-0.00774 mg/L	0.000614	7.92%
Al 308.215†	51676.0	28.23	mg/L	0.237	141.1 mg/L	1.18	0.84%
As 188.979†	-45.9	0.01346	mg/L	0.002084	0.06731 mg/L	0.010419	15.48%
B 249.677†	110.7	0.01269	mg/L	0.001295	0.06345 mg/L	0.006473	10.20%
Ba 233.527†	392.1	0.06627	mg/L	0.001132	0.3313 mg/L	0.00566	1.71%
Be 313.042†	393.7	0.00051	mg/L	0.000016	0.00253 mg/L	0.000080	3.19%
Ca 317.933†	5889158.6	355.7	mg/L	5.70	1779 mg/L	28.48	1.60%
Cd 228.802†	126.8	0.00383	mg/L	0.000057	0.01914 mg/L	0.000286	1.50%
Co 228.616†	733.2	0.01235	mg/L	0.000158	0.06177 mg/L	0.000790	1.28%
Cr 267.716†	598.1	0.07420	mg/L	0.001558	0.3710 mg/L	0.00779	2.10%
Cu 324.752†	8568.1	0.03186	mg/L	0.000548	0.1593 mg/L	0.00274	1.72%
Fe 273.955†	65608.0	38.97	mg/L	0.355	194.8 mg/L	1.78	0.91%
K 766.490†	7022.7	3.034	mg/L	0.0325	15.17 mg/L	0.162	1.07%
Mg 279.077†	27969.2	17.65	mg/L	0.139	88.26 mg/L	0.693	0.79%
Mn 257.610†	32768.6	0.7196	mg/L	0.00723	3.598 mg/L	0.0361	1.00%
Mo 202.031†	132.8	0.00211	mg/L	0.000386	0.01057 mg/L	0.001930	18.26%
Na 589.592†	173737.3	13.27	mg/L	0.075	66.33 mg/L	0.374	0.56%
Na 330.237†	456.4	14.14	mg/L	0.251	70.69 mg/L	1.257	1.78%
Ni 231.604†	351.8	0.07054	mg/L	0.000948	0.3527 mg/L	0.00474	1.34%
Pb 220.353†	41.6	0.00982	mg/L	0.000385	0.04912 mg/L	0.001926	3.92%
Sb 206.836†	0.3	-0.00003	mg/L	0.000717	-0.00013 mg/L	0.003586	>999.9%
Se 196.026†	-28.5	-0.01683	mg/L	0.001276	-0.08415 mg/L	0.006379	7.58%
Si 288.158†	3350.6	1.415	mg/L	0.0218	7.076 mg/L	0.1090	1.54%
Sn 189.927†	-112.4	0.01842	mg/L	0.001802	0.09211 mg/L	0.009009	9.78%
Sr 421.552†	2888015.5	3.003	mg/L	0.0476	15.01 mg/L	0.238	1.58%
Ti 334.903†	47752.1	1.946	mg/L	0.0144	9.731 mg/L	0.0722	0.74%
Tl 190.801†	19.8	0.01090	mg/L	0.003395	0.05450 mg/L	0.016977	31.15%
V 292.402†	12854.1	0.09581	mg/L	0.001649	0.4791 mg/L	0.00824	1.72%
Zn 206.200†	550.4	0.1176	mg/L	0.00159	0.5879 mg/L	0.00795	1.35%

Sequence No.: 21
Sample ID: VS82 F SWC
Analyst: BA
Dilution: 5.000000X

Autosampler Location: 350
Date Collected: 11/28/2012 3:10:29 PM
Data Type: Original

Nebulizer Parameters: VS82 F SWC

Analyte Back Pressure Flow
All 215.0 kPa 0.75 L/min

Mean Data: VS82 F SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2775382.8	98.23	%	0.589				0.60%
ScR 361.383	384845.3	101.8	%	0.21				0.20%
Ag 328.068†	-284.4	-0.00147	mg/L	0.000191	-0.00735	mg/L	0.000954	12.99%
Al 308.215†	46723.7	25.52	mg/L	0.060	127.6	mg/L	0.30	0.23%
As 188.979†	-53.2	0.00896	mg/L	0.000324	0.04480	mg/L	0.001621	3.62%
B 249.677†	106.3	0.01219	mg/L	0.001383	0.06097	mg/L	0.006916	11.34%
Ba 233.527†	294.7	0.04824	mg/L	0.001124	0.2412	mg/L	0.00562	2.33%
Be 313.042†	324.6	0.00041	mg/L	0.000004	0.00204	mg/L	0.000019	0.93%
Ca 317.933†	6730585.7	406.6	mg/L	2.67	2033	mg/L	13.35	0.66%
Cd 228.802†	804.0	0.02517	mg/L	0.000270	0.1259	mg/L	0.00135	1.07%
Co 228.616†	702.3	0.01152	mg/L	0.000209	0.05761	mg/L	0.001044	1.81%
Cr 267.716†	664.6	0.08229	mg/L	0.000739	0.4115	mg/L	0.00370	0.90%
Cu 324.752†	8168.0	0.03040	mg/L	0.000216	0.1520	mg/L	0.00108	0.71%
Fe 273.955†	65379.1	38.83	mg/L	0.230	194.2	mg/L	1.15	0.59%
K 766.490†	6088.9	2.631	mg/L	0.0160	13.15	mg/L	0.080	0.61%
Mg 279.077†	29020.0	18.32	mg/L	0.054	91.58	mg/L	0.269	0.29%
Mn 257.610†	33614.0	0.7381	mg/L	0.00356	3.690	mg/L	0.0178	0.48%
Mo 202.031†	148.6	0.00227	mg/L	0.000375	0.01136	mg/L	0.001876	16.52%
Na 589.592†	209132.7	15.97	mg/L	0.049	79.84	mg/L	0.246	0.31%
Na 330.237†	552.2	17.04	mg/L	0.017	85.18	mg/L	0.085	0.10%
Ni 231.604†	299.1	0.05998	mg/L	0.000829	0.2999	mg/L	0.00414	1.38%
Pb 220.353†	26.5	0.00754	mg/L	0.000477	0.03771	mg/L	0.002386	6.33%
Sb 206.836†	-0.6	-0.00038	mg/L	0.000462	-0.00192	mg/L	0.002308	120.27%
Se 196.026†	-27.6	-0.01627	mg/L	0.003218	-0.08134	mg/L	0.016088	19.78%
Si 288.158†	3499.4	1.478	mg/L	0.0071	7.390	mg/L	0.0357	0.48%
Sn 189.927†	-124.5	0.02194	mg/L	0.000998	0.1097	mg/L	0.00499	4.55%
Sr 421.552†	3497375.8	3.636	mg/L	0.0174	18.18	mg/L	0.087	0.48%
Ti 334.903†	49444.4	2.013	mg/L	0.0060	10.07	mg/L	0.030	0.30%
Tl 190.801†	23.7	0.01228	mg/L	0.001733	0.06142	mg/L	0.008663	14.10%
V 292.402†	13087.8	0.09760	mg/L	0.001134	0.4880	mg/L	0.00567	1.16%
Zn 206.200†	551.8	0.1179	mg/L	0.00059	0.5894	mg/L	0.00294	0.50%

Sequence No.: 22
 Sample ID: VR58 ADUP SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 351
 Date Collected: 11/28/2012 3:14:48 PM
 Data Type: Original

Nebulizer Parameters: VR58 ADUP SWC

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: VR58 ADUP SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2893520.8	102.4	%	0.37				0.36%
ScR 361.383	391229.4	103.5	%	0.89				0.86%
Ag 328.068†	-1.1	0.00005	mg/L	0.000040	0.00011	mg/L	0.000081	75.64%
Al 308.215†	106590.8	58.22	mg/L	0.206	116.4	mg/L	0.41	0.35%
As 188.979†	363.4	0.2983	mg/L	0.00088	0.5965	mg/L	0.00177	0.30%
B 249.677†	122.9	0.01404	mg/L	0.000858	0.02807	mg/L	0.001716	6.11%
Ba 233.527†	1989.0	0.3530	mg/L	0.00301	0.7061	mg/L	0.00602	0.85%
Be 313.042†	785.3	0.00100	mg/L	0.000020	0.00200	mg/L	0.000040	2.00%
Ca 317.933†	449525.1	27.15	mg/L	0.086	54.31	mg/L	0.173	0.32%
Cd 228.802†	119.0	0.00186	mg/L	0.000110	0.00372	mg/L	0.000220	5.90%
Co 228.616†	2382.3	0.04434	mg/L	0.000143	0.08867	mg/L	0.000285	0.32%
Cr 267.716†	1444.2	0.1881	mg/L	0.00097	0.3762	mg/L	0.00193	0.51%
Cu 324.752†	66551.0	0.2414	mg/L	0.00148	0.4829	mg/L	0.00296	0.61%
Fe 273.955†	159949.1	95.01	mg/L	0.255	190.0	mg/L	0.51	0.27%
K 766.490†	8012.6	3.462	mg/L	0.0149	6.923	mg/L	0.0298	0.43%
Mg 279.077†	43297.2	27.31	mg/L	0.099	54.61	mg/L	0.198	0.36%
Mn 257.610†	84344.8	1.855	mg/L	0.0048	3.710	mg/L	0.0096	0.26%
Mo 202.031†	596.1	0.02645	mg/L	0.000328	0.05290	mg/L	0.000656	1.24%
Na 589.592†	26039.1	1.988	mg/L	0.0087	3.976	mg/L	0.0174	0.44%
Na 330.237†	50.5	2.063	mg/L	0.2037	4.126	mg/L	0.4073	9.87%
Ni 231.604†	974.1	0.1954	mg/L	0.00273	0.3908	mg/L	0.00547	1.40%
Pb 220.353†	3282.3	0.3708	mg/L	0.00131	0.7416	mg/L	0.00261	0.35%
Sb 206.836†	427.2	0.1168	mg/L	0.00273	0.2337	mg/L	0.00546	2.34%
Se 196.026†	7.6	0.00434	mg/L	0.002934	0.00868	mg/L	0.005869	67.58%
Si 288.158†	13587.5	5.732	mg/L	0.0407	11.46	mg/L	0.081	0.71%
Sn 189.927†	119.9	0.03163	mg/L	0.002076	0.06326	mg/L	0.004152	6.56%
Sr 421.552†	151270.3	0.1573	mg/L	0.00039	0.3145	mg/L	0.00078	0.25%
Ti 334.903†	107485.8	4.418	mg/L	0.0122	8.836	mg/L	0.0243	0.28%
Tl 190.801†	-25.4	-0.00009	mg/L	0.001266	-0.00019	mg/L	0.002532	>999.9%
V 292.402†	26917.9	0.2002	mg/L	0.00107	0.4003	mg/L	0.00214	0.54%
Zn 206.200†	6558.6	1.401	mg/L	0.0128	2.803	mg/L	0.0255	0.91%

Sequence No.: 23
 Sample ID: CV 8
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/28/2012 3:18:50 PM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2875120.9	101.8	%	0.59			0.58%
ScR 361.383	381503.4	101.0	%	0.20			0.20%
Ag 328.068†	195558.2	1.030	mg/L	0.0033	1.030 mg/L	0.0033	0.32%
Al 308.215†	3768.6	2.024	mg/L	0.0095	2.024 mg/L	0.0095	0.47%
As 188.979†	4230.9	2.047	mg/L	0.0120	2.047 mg/L	0.0120	0.59%
B 249.677†	8759.6	1.006	mg/L	0.0058	1.006 mg/L	0.0058	0.58%
Ba 233.527†	5420.3	1.004	mg/L	0.0009	1.004 mg/L	0.0009	0.09%
Be 313.042†	729043.9	1.015	mg/L	0.0066	1.015 mg/L	0.0066	0.65%
Ca 317.933†	34685.1	2.095	mg/L	0.0110	2.095 mg/L	0.0110	0.52%
Cd 228.802†	32931.9	1.025	mg/L	0.0064	1.025 mg/L	0.0064	0.63%
Co 228.616†	44107.2	1.001	mg/L	0.0032	1.001 mg/L	0.0032	0.32%
Cr 267.716†	7821.6	1.014	mg/L	0.0049	1.014 mg/L	0.0049	0.49%
Cu 324.752†	285038.6	1.021	mg/L	0.0037	1.021 mg/L	0.0037	0.36%
Fe 273.955†	3562.0	2.109	mg/L	0.0118	2.109 mg/L	0.0118	0.56%
K 766.490†	47004.6	20.31	mg/L	0.136	20.31 mg/L	0.136	0.67%
Mg 279.077†	3234.4	2.051	mg/L	0.0117	2.051 mg/L	0.0117	0.57%
Mn 257.610†	46674.2	1.027	mg/L	0.0068	1.027 mg/L	0.0068	0.66%
Mo 202.031†	23371.9	1.049	mg/L	0.0059	1.049 mg/L	0.0059	0.56%
Na 589.592†	670469.0	51.19	mg/L	0.308	51.19 mg/L	0.308	0.60%
Na 330.237†	1741.4	52.28	mg/L	0.552	52.28 mg/L	0.552	1.06%
Ni 231.604†	5053.1	1.014	mg/L	0.0045	1.014 mg/L	0.0045	0.45%
Pb 220.353†	19077.5	2.098	mg/L	0.0112	2.098 mg/L	0.0112	0.53%
Sb 206.836†	7905.4	2.157	mg/L	0.0135	2.157 mg/L	0.0135	0.63%
Se 196.026†	3432.0	2.015	mg/L	0.0136	2.015 mg/L	0.0136	0.68%
Si 288.158†	4946.1	2.085	mg/L	0.0156	2.085 mg/L	0.0156	0.75%
Sn 189.927†	4574.8	1.054	mg/L	0.0060	1.054 mg/L	0.0060	0.56%
Sr 421.552†	967686.1	1.006	mg/L	0.0051	1.006 mg/L	0.0051	0.50%
Ti 334.903†	25190.2	1.034	mg/L	0.0034	1.034 mg/L	0.0034	0.33%
Tl 190.801†	5551.8	2.003	mg/L	0.0099	2.003 mg/L	0.0099	0.50%
V 292.402†	134065.8	1.025	mg/L	0.0042	1.025 mg/L	0.0042	0.41%
Zn 206.200†	4991.7	1.066	mg/L	0.0066	1.066 mg/L	0.0066	0.62%

Sequence No.: 24
 Sample ID: CB 8
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/28/2012 3:23:12 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 213.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2898835.3	102.6 %	0.11			0.10%
ScR 361.383	386807.4	102.4 %	0.64			0.62%
Ag 328.068†	-0.7	-0.00000 mg/L	0.000164	-0.00000 mg/L	0.000164	>999.9%
Al 308.215†	12.3	0.00671 mg/L	0.006239	0.00671 mg/L	0.006239	92.98%
As 188.979†	0.6	0.00028 mg/L	0.001071	0.00028 mg/L	0.001071	389.36%
B 249.677†	5.5	0.00064 mg/L	0.000947	0.00064 mg/L	0.000947	148.50%
Ba 233.527†	-1.9	-0.00035 mg/L	0.000632	-0.00035 mg/L	0.000632	180.62%
Be 313.042†	43.0	0.00006 mg/L	0.000007	0.00006 mg/L	0.000007	12.17%
Ca 317.933†	19.9	0.00120 mg/L	0.000085	0.00120 mg/L	0.000085	7.10%
Cd 228.802†	-0.6	-0.00002 mg/L	0.000086	-0.00002 mg/L	0.000086	397.98%
Co 228.616†	6.7	0.00015 mg/L	0.000150	0.00015 mg/L	0.000150	98.81%
Cr 267.716†	-3.0	-0.00039 mg/L	0.000744	-0.00039 mg/L	0.000744	192.71%
Cu 324.752†	-26.4	-0.00009 mg/L	0.000076	-0.00009 mg/L	0.000076	80.18%
Fe 273.955†	1.4	0.00081 mg/L	0.000544	0.00081 mg/L	0.000544	67.00%
K 766.490†	-23.5	-0.01017 mg/L	0.006652	-0.01017 mg/L	0.006652	65.39%
Mg 279.077†	3.8	0.00241 mg/L	0.003893	0.00241 mg/L	0.003893	161.33%
Mn 257.610†	8.0	0.00018 mg/L	0.000062	0.00018 mg/L	0.000062	35.05%
Mo 202.031†	17.3	0.00078 mg/L	0.000178	0.00078 mg/L	0.000178	22.89%
Na 589.592†	164.9	0.01259 mg/L	0.000914	0.01259 mg/L	0.000914	7.26%
Na 330.237†	-7.7	-0.2331 mg/L	0.23846	-0.2331 mg/L	0.23846	102.29%
Ni 231.604†	-5.1	-0.00103 mg/L	0.000795	-0.00103 mg/L	0.000795	77.50%
Pb 220.353†	6.6	0.00072 mg/L	0.000161	0.00072 mg/L	0.000161	22.32%
Sb 206.836†	5.2	0.00143 mg/L	0.000230	0.00143 mg/L	0.000230	16.07%
Se 196.026†	3.1	0.00183 mg/L	0.002408	0.00183 mg/L	0.002408	131.74%
Si 288.158†	7.6	0.00321 mg/L	0.002791	0.00321 mg/L	0.002791	86.92%
Sn 189.927†	1.6	0.00038 mg/L	0.000666	0.00038 mg/L	0.000666	176.36%
Sr 421.552†	104.3	0.00011 mg/L	0.000040	0.00011 mg/L	0.000040	37.22%
Ti 334.903†	4.8	0.00020 mg/L	0.000691	0.00020 mg/L	0.000691	352.28%
Tl 190.801†	2.9	0.00104 mg/L	0.000730	0.00104 mg/L	0.000730	69.98%
V 292.402†	24.5	0.00019 mg/L	0.000106	0.00019 mg/L	0.000106	57.37%
Zn 206.200†	0.3	0.00006 mg/L	0.000315	0.00006 mg/L	0.000315	520.92%



IEC Date: 11-12-12

Analysis Date: 11-29-12

Analyst: BA

LR Date: 7-30-12

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 0			2994-10
		2			-11
		3			-12
		4			-13
		↓ 5			↓ -14
		ICV			2988-6
		ICB			
		CRI			
		JCSA			
		JCSAB			
		CCVI			
		CCBI			
		VT85 MB	SWC	2	
		VR82 F			
		G			
		H			
		↓ I		↓	
		VT85 ADUP		5 ✓	
		A			
		ASPK		↓ ✓	
		↓ MBSPK	↓	2 ✓	
		CCV2			
		CCB2			
		VT10 MB	SWC	2	

Eng PKA

12/4/12

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 11-29-12

ICP - 2	Analyst BA 11/30/12	Peer H 11-30-12	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	

11-30-12

=====
Analysis Begun

Start Time: 11/29/2012 10:13:49 AM
Logged In Analyst: Metals
Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 11/29/2012 8:24:26 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRIS11.sif

Batch ID:

Results Data Set: I2121129

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Method Loaded

Method Name: 7300bcESI2FAST

IEC File: IEC110912.iec

Method Description: 12Axial Elements

Method Last Saved: 11/29/2012 9:56:06 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

=====
Sequence No.: 1
Sample ID: Calib Blank 1

Autosampler Location: 1
Date Collected: 11/29/2012 10:13:49 AM
Data Type: Original

=====
Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

=====
Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD	Conc.	Calib Units
	Intensity	Std.Dev.			
ScA 357.253	2909282.8	15595.11	0.54%	100.0	%
ScR 361.383	387720.7	886.73	0.23%	100.0	%
Ag 328.068†	-144.8	59.94	41.38%	[0.00]	mg/L
Al 308.215†	227.0	3.02	1.33%	[0.00]	mg/L
As 188.979†	-16.8	3.18	18.99%	[0.00]	mg/L
B 249.677†	25.1	2.66	10.59%	[0.00]	mg/L

Ba 233.527†	34.1	3.63	10.65%	[0.00]	mg/L
Be 313.042†	887.9	18.65	2.10%	[0.00]	mg/L
Ca 317.933†	196.1	6.47	3.30%	[0.00]	mg/L
Cd 228.802†	317.6	4.30	1.35%	[0.00]	mg/L
Co 228.616†	-103.0	3.76	3.66%	[0.00]	mg/L
Cr 267.716†	-147.1	8.15	5.54%	[0.00]	mg/L
Cu 324.752†	2459.1	17.96	0.73%	[0.00]	mg/L
Fe 273.955†	28.8	2.76	9.57%	[0.00]	mg/L
K 766.490†	543.2	47.57	8.76%	[0.00]	mg/L
Mg 279.077†	92.4	2.34	2.53%	[0.00]	mg/L
Mn 257.610†	213.5	1.93	0.90%	[0.00]	mg/L
Mo 202.031†	85.9	3.26	3.80%	[0.00]	mg/L
Na 589.592†	-423.8	63.15	14.90%	[0.00]	mg/L
Na 330.237†	-211.9	12.47	5.89%	[0.00]	mg/L
Ni 231.604†	-14.4	0.15	1.03%	[0.00]	mg/L
Pb 220.353†	66.4	4.02	6.05%	[0.00]	mg/L
Sb 206.836†	88.0	3.55	4.03%	[0.00]	mg/L
Se 196.026†	-53.7	6.43	11.97%	[0.00]	mg/L
Si 288.158†	66.4	4.15	6.25%	[0.00]	mg/L
Sn 189.927†	-4.6	5.37	117.58%	[0.00]	mg/L
Sr 421.552†	509.0	19.71	3.87%	[0.00]	mg/L
Ti 334.903†	-93.9	9.96	10.61%	[0.00]	mg/L
Tl 190.801†	-46.5	3.71	7.97%	[0.00]	mg/L
V 292.402†	125.3	28.75	22.95%	[0.00]	mg/L
Zn 206.200†	13.6	0.99	7.31%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 11/29/2012 10:18:06 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2933605.5	11924.21	0.41%	100.8	%
ScR 361.383	391542.9	1726.27	0.44%	101.0	%
Ba 233.527†	55417.6	85.84	0.15%	[10]	mg/L
Cd 228.802†	316219.4	1174.57	0.37%	[10]	mg/L
Co 228.616†	448263.6	1178.33	0.26%	[10]	mg/L
Cr 267.716†	78407.6	361.12	0.46%	[10]	mg/L
Cu 324.752†	2806224.3	12956.38	0.46%	[10]	mg/L
Mn 257.610†	457787.3	2377.96	0.52%	[10]	mg/L
V 292.402†	1326274.0	1891.34	0.14%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 11/29/2012 10:19:52 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2895151.3	10356.46	0.36%	99.51	%
ScR 361.383	387336.5	8936.96	2.31%	99.90	%
Ag 328.068†	192136.0	198.18	0.10%	[1.0]	mg/L
As 188.979†	21167.5	152.17	0.72%	[10]	mg/L
B 249.677†	88397.1	2298.12	2.60%	[10]	mg/L
Be 313.042†	3580844.8	76810.05	2.15%	[5.0]	mg/L
Na 589.592†	660611.4	17612.37	2.67%	[50]	mg/L
Ni 231.604†	51327.4	1280.96	2.50%	[10]	mg/L

Pb 220.353†	92453.6	43.76	0.05%	[10] mg/L
Se 196.026†	17232.1	116.75	0.68%	[10] mg/L
Sr 421.552†	4786777.5	107389.92	2.24%	[5] mg/L
Tl 190.801†	28025.0	182.95	0.65%	[10] mg/L
Zn 206.200†	47995.2	1138.36	2.37%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 11/29/2012 10:22:26 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2933828.3	8942.35	0.30%	100.8 %
ScR 361.383	392673.1	1738.10	0.44%	101.3 %
Mo 202.031†	228170.5	683.38	0.30%	[10] mg/L
Sb 206.836†	37571.3	66.84	0.18%	[10] mg/L
Si 288.158†	23258.4	142.15	0.61%	[10] mg/L
Sn 189.927†	44944.5	20.89	0.05%	[10] mg/L
Ti 334.903†	240873.8	476.32	0.20%	[10] mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 11/29/2012 10:24:40 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2765258.0	15417.74	0.56%	95.05 %
ScR 361.383	387195.9	1001.88	0.26%	99.86 %
Al 308.215†	55224.9	340.59	0.62%	[30] mg/L
Ca 317.933†	504896.9	2508.32	0.50%	[30] mg/L
Fe 273.955†	169632.7	1447.91	0.85%	[100] mg/L
K 766.490†	235228.1	755.35	0.32%	[100] mg/L
Mg 279.077†	48272.0	387.08	0.80%	[30] mg/L
Na 330.237†	3336.4	26.60	0.80%	[100] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	192100	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1841	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	2117	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	8840	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5542	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	716200	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	16830	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	31620	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	44830	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7841	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	280600	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1696	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2352	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1609	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	45780	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	22820	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	13210	0.00000	1.000000	

Na 330.237	1	Lin Thru 0	0.0	33.36	0.00000	1.000000
Ni 231.604	1	Lin Thru 0	0.0	5133	0.00000	1.000000
Pb 220.353	1	Lin Thru 0	0.0	9245	0.00000	1.000000
Sb 206.836	1	Lin Thru 0	0.0	3757	0.00000	1.000000
Se 196.026	1	Lin Thru 0	0.0	1723	0.00000	1.000000
Si 288.158	1	Lin Thru 0	0.0	2326	0.00000	1.000000
Sn 189.927	1	Lin Thru 0	0.0	4494	0.00000	1.000000
Sr 421.552	1	Lin Thru 0	0.0	957400	0.00000	1.000000
Ti 334.903	1	Lin Thru 0	0.0	24090	0.00000	1.000000
Tl 190.801	1	Lin Thru 0	0.0	2802	0.00000	1.000000
V 292.402	1	Lin Thru 0	0.0	132600	0.00000	1.000000
Zn 206.200	1	Lin Thru 0	0.0	4800	0.00000	1.000000

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Analysis Begun

Start Time: 11/29/2012 10:27:57 AM

Plasma On Time: 11/29/2012 8:24:26 AM

Logged In Analyst: Metals

Technique: ICP Continuous

Spectrometer: Optima 7300 DV, S/N 077C8121202

Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2121129

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: ICV

Date Collected: 11/29/2012 10:27:58 AM

Analyst: BA

Data Type: Original

Dilution: 1.000000X
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Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

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Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2908921.2	99.99 %	0.473			0.47%
ScR 361.383	384436.4	99.15 %	0.170			0.17%
Ag 328.068†	200040.2	1.041 mg/L	0.0088	1.041 mg/L	0.0088	0.85%
Al 308.215†	3769.2	2.013 mg/L	0.0079	2.013 mg/L	0.0079	0.39%
As 188.979†	4224.3	2.021 mg/L	0.0155	2.021 mg/L	0.0155	0.77%
B 249.677†	8968.1	1.014 mg/L	0.0046	1.014 mg/L	0.0046	0.46%
Ba 233.527†	5603.3	1.011 mg/L	0.0099	1.011 mg/L	0.0099	0.98%
Be 313.042†	722176.1	1.008 mg/L	0.0042	1.008 mg/L	0.0042	0.41%
Ca 317.933†	34949.5	2.077 mg/L	0.0054	2.077 mg/L	0.0054	0.26%
Cd 228.802†	32698.3	1.022 mg/L	0.0092	1.022 mg/L	0.0092	0.90%
Co 228.616†	44634.9	0.9936 mg/L	0.00837	0.9936 mg/L	0.00837	0.84%
Cr 267.716†	7927.3	1.010 mg/L	0.0032	1.010 mg/L	0.0032	0.32%
Cu 324.752†	288393.1	1.027 mg/L	0.0095	1.027 mg/L	0.0095	0.93%
Fe 273.955†	3531.2	2.074 mg/L	0.0096	2.074 mg/L	0.0096	0.46%
K 766.490†	47494.4	20.19 mg/L	0.075	20.19 mg/L	0.075	0.37%
Mg 279.077†	3242.1	2.022 mg/L	0.0092	2.022 mg/L	0.0092	0.46%
Mn 257.610†	46576.0	1.018 mg/L	0.0032	1.018 mg/L	0.0032	0.32%
Mo 202.031†	23493.4	1.030 mg/L	0.0063	1.030 mg/L	0.0063	0.62%
Na 589.592†	682171.8	51.63 mg/L	0.246	51.63 mg/L	0.246	0.48%
Na 330.237†	1749.5	52.33 mg/L	0.309	52.33 mg/L	0.309	0.59%
Ni 231.604†	5190.5	1.012 mg/L	0.0055	1.012 mg/L	0.0055	0.54%
Pb 220.353†	19181.3	2.076 mg/L	0.0114	2.076 mg/L	0.0114	0.55%
Sb 206.836†	7946.4	2.114 mg/L	0.0117	2.114 mg/L	0.0117	0.55%
Se 196.026†	3425.3	1.987 mg/L	0.0157	1.987 mg/L	0.0157	0.79%
Si 288.158†	4954.5	2.130 mg/L	0.0037	2.130 mg/L	0.0037	0.17%
Sn 189.927†	4544.3	1.013 mg/L	0.0037	1.013 mg/L	0.0037	0.37%
Sr 421.552†	972408.2	1.016 mg/L	0.0048	1.016 mg/L	0.0048	0.47%
Ti 334.903†	25268.5	1.048 mg/L	0.0016	1.048 mg/L	0.0016	0.15%
Tl 190.801†	5596.6	1.989 mg/L	0.0132	1.989 mg/L	0.0132	0.66%
V 292.402†	135238.1	1.024 mg/L	0.0089	1.024 mg/L	0.0089	0.87%
Zn 206.200†	5016.3	1.045 mg/L	0.0060	1.045 mg/L	0.0060	0.57%

Sequence No.: 2
 Sample ID: ICB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/29/2012 10:31:15 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: ICB

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2915582.5	100.2	%	0.13				0.13%
ScR 361.383	390319.9	100.7	%	0.68				0.67%
Ag 328.068†	23.7	0.00012	mg/L	0.000094	0.00012	mg/L	0.000094	75.75%
Al 308.215†	-8.6	-0.00468	mg/L	0.009654	-0.00468	mg/L	0.009654	206.33%
As 188.979†	-0.9	-0.00039	mg/L	0.001071	-0.00039	mg/L	0.001071	277.63%
B 249.677†	35.9	0.00406	mg/L	0.000542	0.00406	mg/L	0.000542	13.34%
Ba 233.527†	-2.1	-0.00038	mg/L	0.000381	-0.00038	mg/L	0.000381	100.64%
Be 313.042†	78.6	0.00011	mg/L	0.000012	0.00011	mg/L	0.000012	10.54%
Ca 317.933†	-9.8	-0.00058	mg/L	0.000612	-0.00058	mg/L	0.000612	105.22%
Cd 228.802†	1.4	0.00005	mg/L	0.000051	0.00005	mg/L	0.000051	111.36%
Co 228.616†	7.3	0.00016	mg/L	0.000043	0.00016	mg/L	0.000043	26.93%
Cr 267.716†	1.4	0.00017	mg/L	0.000616	0.00017	mg/L	0.000616	354.52%
Cu 324.752†	61.3	0.00022	mg/L	0.000199	0.00022	mg/L	0.000199	91.57%
Fe 273.955†	-2.2	-0.00130	mg/L	0.001943	-0.00130	mg/L	0.001943	149.03%
K 766.490†	-23.8	-0.01011	mg/L	0.025742	-0.01011	mg/L	0.025742	254.55%
Mg 279.077†	2.5	0.00155	mg/L	0.002734	0.00155	mg/L	0.002734	176.71%
Mn 257.610†	-0.8	-0.00002	mg/L	0.000113	-0.00002	mg/L	0.000113	646.55%
Mo 202.031†	30.4	0.00133	mg/L	0.000146	0.00133	mg/L	0.000146	10.96%
Na 589.592†	122.7	0.00929	mg/L	0.004527	0.00929	mg/L	0.004527	48.74%
Na 330.237†	-25.7	-0.7695	mg/L	0.24796	-0.7695	mg/L	0.24796	32.22%
Ni 231.604†	-3.5	-0.00068	mg/L	0.000777	-0.00068	mg/L	0.000777	113.69%
Pb 220.353†	-0.9	-0.00010	mg/L	0.001066	-0.00010	mg/L	0.001066	>999.9%
Sb 206.836†	8.6	0.00228	mg/L	0.001365	0.00228	mg/L	0.001365	59.81%
Se 196.026†	-1.4	-0.00079	mg/L	0.001746	-0.00079	mg/L	0.001746	222.26%
Si 288.158†	-1.8	-0.00078	mg/L	0.001640	-0.00078	mg/L	0.001640	209.14%
Sn 189.927†	2.7	0.00061	mg/L	0.000670	0.00061	mg/L	0.000670	109.57%
Sr 421.552†	90.1	0.00009	mg/L	0.000013	0.00009	mg/L	0.000013	13.89%
Ti 334.903†	29.3	0.00122	mg/L	0.000196	0.00122	mg/L	0.000196	16.09%
Tl 190.801†	2.3	0.00082	mg/L	0.001770	0.00082	mg/L	0.001770	216.10%
V 292.402†	6.9	0.00005	mg/L	0.000063	0.00005	mg/L	0.000063	118.02%
Zn 206.200†	1.5	0.00032	mg/L	0.000307	0.00032	mg/L	0.000307	95.53%

Sequence No.: 3
 Sample ID: CRI
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 301
 Date Collected: 11/29/2012 10:35:30 AM
 Data Type: Original

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2918658.6	100.3	%	0.59			0.59%
ScR 361.383	388880.9	100.3	%	1.11			1.11%
Ag 328.068†	605.8	0.00315	mg/L	0.000271	0.00315 mg/L	0.000271	8.60%
Al 308.215†	69.7	0.03773	mg/L	0.012242	0.03773 mg/L	0.012242	32.45%
As 188.979†	103.1	0.04883	mg/L	0.001100	0.04883 mg/L	0.001100	2.25%
B 249.677†	193.2	0.02185	mg/L	0.000712	0.02185 mg/L	0.000712	3.26%
Ba 233.527†	11.3	0.00202	mg/L	0.001051	0.00202 mg/L	0.001051	51.99%
Be 313.042†	711.8	0.00099	mg/L	0.000032	0.00099 mg/L	0.000032	3.22%
Ca 317.933†	809.4	0.04809	mg/L	0.000576	0.04809 mg/L	0.000576	1.20%
Cd 228.802†	79.2	0.00219	mg/L	0.000051	0.00219 mg/L	0.000051	2.32%
Co 228.616†	155.3	0.00345	mg/L	0.000089	0.00345 mg/L	0.000089	2.58%
Cr 267.716†	43.3	0.00551	mg/L	0.000789	0.00551 mg/L	0.000789	14.31%
Cu 324.752†	591.4	0.00211	mg/L	0.000073	0.00211 mg/L	0.000073	3.44%
Fe 273.955†	82.3	0.04851	mg/L	0.001656	0.04851 mg/L	0.001656	3.41%
K 766.490†	1099.8	0.4675	mg/L	0.01372	0.4675 mg/L	0.01372	2.94%
Mg 279.077†	75.0	0.04662	mg/L	0.009450	0.04662 mg/L	0.009450	20.27%
Mn 257.610†	39.1	0.00086	mg/L	0.000162	0.00086 mg/L	0.000162	18.83%
Mo 202.031†	115.6	0.00507	mg/L	0.000314	0.00507 mg/L	0.000314	6.20%
Na 589.592†	6388.9	0.4836	mg/L	0.00428	0.4836 mg/L	0.00428	0.88%
Na 330.237†	10.3	0.3077	mg/L	0.16621	0.3077 mg/L	0.16621	54.01%
Ni 231.604†	50.0	0.00976	mg/L	0.000215	0.00976 mg/L	0.000215	2.20%
Pb 220.353†	184.7	0.01999	mg/L	0.000575	0.01999 mg/L	0.000575	2.87%
Sb 206.836†	193.4	0.05151	mg/L	0.001244	0.05151 mg/L	0.001244	2.42%
Se 196.026†	84.2	0.04886	mg/L	0.001731	0.04886 mg/L	0.001731	3.54%
Si 288.158†	152.9	0.06571	mg/L	0.002972	0.06571 mg/L	0.002972	4.52%
Sn 189.927†	44.7	0.00998	mg/L	0.000704	0.00998 mg/L	0.000704	7.06%
Sr 421.552†	937.8	0.00098	mg/L	0.000014	0.00098 mg/L	0.000014	1.41%
Ti 334.903†	120.9	0.00501	mg/L	0.000588	0.00501 mg/L	0.000588	11.73%
Tl 190.801†	137.0	0.04885	mg/L	0.001136	0.04885 mg/L	0.001136	2.33%
V 292.402†	404.3	0.00307	mg/L	0.000106	0.00307 mg/L	0.000106	3.46%
Zn 206.200†	50.4	0.01049	mg/L	0.000589	0.01049 mg/L	0.000589	5.61%

Sequence No.: 4
 Sample ID: ICSA
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 302
 Date Collected: 11/29/2012 10:39:47 AM
 Data Type: Original

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	215.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2877015.0		98.89 %	0.272			0.28%
ScR 361.383	384662.0		99.21 %	0.219			0.22%
Ag 328.068†	-217.3	-0.00113	mg/L	0.000212	-0.00113	mg/L	0.000212 18.75%
Al 308.215†	362775.8		197.1 mg/L	0.44	197.1	mg/L	0.44 0.22%
As 188.979†	43.2	0.01484	mg/L	0.002481	0.01484	mg/L	0.002481 16.71%
B 249.677†	-62.7	-0.00710	mg/L	0.002022	-0.00710	mg/L	0.002022 28.50%
Ba 233.527†	156.0	-0.00404	mg/L	0.000676	-0.00404	mg/L	0.000676 16.74%
Be 313.042†	57.5	0.00008	mg/L	0.000021	0.00008	mg/L	0.000021 26.81%
Ca 317.933†	1670996.4		99.29 mg/L	0.610	99.29	mg/L	0.610 0.61%
Cd 228.802†	59.4	-0.00013	mg/L	0.000184	-0.00013	mg/L	0.000184 142.51%
Co 228.616†	78.1	-0.00083	mg/L	0.000175	-0.00083	mg/L	0.000175 21.01%
Cr 267.716†	5.9	-0.00089	mg/L	0.001133	-0.00089	mg/L	0.001133 126.94%
Cu 324.752†	-2175.3	0.00011	mg/L	0.000091	0.00011	mg/L	0.000091 79.63%
Fe 273.955†	333523.4		196.6 mg/L	0.90	196.6	mg/L	0.90 0.46%
K 766.490†	8.4	0.00357	mg/L	0.004739	0.00357	mg/L	0.004739 132.91%
Mg 279.077†	157523.4		97.79 mg/L	0.524	97.79	mg/L	0.524 0.54%
Mn 257.610†	56.1	0.00121	mg/L	0.000224	0.00121	mg/L	0.000224 18.57%
Mo 202.031†	75.3	0.00223	mg/L	0.000118	0.00223	mg/L	0.000118 5.29%
Na 589.592†	243.3	0.01841	mg/L	0.002063	0.01841	mg/L	0.002063 11.21%
Na 330.237†	-16.7	-0.5027	mg/L	0.02782	-0.5027	mg/L	0.02782 5.54%
Ni 231.604†	-2.0	-0.00038	mg/L	0.001244	-0.00038	mg/L	0.001244 328.02%
Pb 220.353†	-407.3	-0.00498	mg/L	0.002198	-0.00498	mg/L	0.002198 44.13%
Sb 206.836†	43.5	0.01144	mg/L	0.002566	0.01144	mg/L	0.002566 22.42%
Se 196.026†	18.1	0.01052	mg/L	0.009384	0.01052	mg/L	0.009384 89.17%
Si 288.158†	-35.4	-0.00339	mg/L	0.001641	-0.00339	mg/L	0.001641 48.36%
Sn 189.927†	-78.4	-0.00515	mg/L	0.000317	-0.00515	mg/L	0.000317 6.15%
Sr 421.552†	3858.9	0.00403	mg/L	0.000018	0.00403	mg/L	0.000018 0.45%
Ti 334.903†	172.7	0.00243	mg/L	0.000281	0.00243	mg/L	0.000281 11.59%
Tl 190.801†	-56.8	0.00071	mg/L	0.000970	0.00071	mg/L	0.000970 136.30%
V 292.402†	1445.1	0.00403	mg/L	0.000172	0.00403	mg/L	0.000172 4.28%
Zn 206.200†	56.9	0.01185	mg/L	0.000649	0.01185	mg/L	0.000649 5.48%

Sequence No.: 5
 Sample ID: ICSAB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 303
 Date Collected: 11/29/2012 10:43:49 AM
 Data Type: Original

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected			Std.Dev.	Sample		RSD
	Intensity	Conc.	Calib. Units		Conc.	Units	
ScA 357.253	2896012.7	99.54	%	0.250			0.25%
ScR 361.383	384203.3	99.09	%	0.247			0.25%
Ag 328.068†	201394.7	1.048	mg/L	0.0029	1.048	mg/L	0.28%
Al 308.215†	361882.3	196.6	mg/L	0.92	196.6	mg/L	0.47%
As 188.979†	2149.4	1.009	mg/L	0.0033	1.009	mg/L	0.33%
B 249.677†	-14.9	-0.00360	mg/L	0.000709	-0.00360	mg/L	19.67%
Ba 233.527†	5666.0	0.9901	mg/L	0.00437	0.9901	mg/L	0.44%
Be 313.042†	718335.6	1.003	mg/L	0.0063	1.003	mg/L	0.63%
Ca 317.933†	1673861.0	99.46	mg/L	0.534	99.46	mg/L	0.54%
Cd 228.802†	32049.5	1.006	mg/L	0.0032	1.006	mg/L	0.31%
Co 228.616†	42021.5	0.9347	mg/L	0.00403	0.9347	mg/L	0.43%
Cr 267.716†	7842.0	0.9980	mg/L	0.00521	0.9980	mg/L	0.52%
Cu 324.752†	286907.7	1.030	mg/L	0.0019	1.030	mg/L	0.18%
Fe 273.955†	333164.8	196.4	mg/L	0.93	196.4	mg/L	0.47%
K 766.490†	-102.6	-0.04361	mg/L	0.007327	-0.04361	mg/L	16.80%
Mg 279.077†	158078.1	98.14	mg/L	0.507	98.14	mg/L	0.52%
Mn 257.610†	43478.5	0.9499	mg/L	0.00417	0.9499	mg/L	0.44%
Mo 202.031†	74.0	0.00212	mg/L	0.000056	0.00212	mg/L	2.66%
Na 589.592†	395.1	0.02990	mg/L	0.001925	0.02990	mg/L	6.44%
Na 330.237†	-9.0	-0.5831	mg/L	0.45230	-0.5831	mg/L	77.56%
Ni 231.604†	4936.5	0.9619	mg/L	0.00600	0.9619	mg/L	0.62%
Pb 220.353†	8720.6	0.9828	mg/L	0.00411	0.9828	mg/L	0.42%
Sb 206.836†	3846.2	1.013	mg/L	0.0041	1.013	mg/L	0.40%
Se 196.026†	1719.7	0.9969	mg/L	0.00260	0.9969	mg/L	0.26%
Si 288.158†	-40.8	-0.00200	mg/L	0.001362	-0.00200	mg/L	68.07%
Sn 189.927†	-83.2	-0.00571	mg/L	0.002780	-0.00571	mg/L	48.73%
Sr 421.552†	3819.9	0.00399	mg/L	0.000013	0.00399	mg/L	0.34%
Ti 334.903†	169.8	0.00210	mg/L	0.000211	0.00210	mg/L	10.03%
Tl 190.801†	2547.9	0.9212	mg/L	0.00362	0.9212	mg/L	0.39%
V 292.402†	131893.1	0.9920	mg/L	0.00321	0.9920	mg/L	0.32%
Zn 206.200†	4592.1	0.9568	mg/L	0.00632	0.9568	mg/L	0.66%

Sequence No.: 6
 Sample ID: CV
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/29/2012 10:48:55 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2948282.3	101.3 %	0.48			0.47%
ScR 361.383	388676.3	100.2 %	0.64			0.64%
Ag 328.068†	197446.6	1.028 mg/L	0.0106	1.028 mg/L	0.0106	1.03%
Al 308.215†	3779.6	2.019 mg/L	0.0018	2.019 mg/L	0.0018	0.09%
As 188.979†	4204.7	2.012 mg/L	0.0062	2.012 mg/L	0.0062	0.31%
B 249.677†	8897.2	1.006 mg/L	0.0050	1.006 mg/L	0.0050	0.50%
Ba 233.527†	5599.1	1.010 mg/L	0.0090	1.010 mg/L	0.0090	0.89%
Be 313.042†	719383.4	1.004 mg/L	0.0024	1.004 mg/L	0.0024	0.24%
Ca 317.933†	35184.7	2.091 mg/L	0.0092	2.091 mg/L	0.0092	0.44%
Cd 228.802†	32342.8	1.010 mg/L	0.0079	1.010 mg/L	0.0079	0.78%
Co 228.616†	44208.6	0.9841 mg/L	0.01137	0.9841 mg/L	0.01137	1.16%
Cr 267.716†	7921.5	1.010 mg/L	0.0038	1.010 mg/L	0.0038	0.38%
Cu 324.752†	284162.7	1.012 mg/L	0.0097	1.012 mg/L	0.0097	0.95%
Fe 273.955†	3570.4	2.098 mg/L	0.0081	2.098 mg/L	0.0081	0.39%
K 766.490†	47334.0	20.12 mg/L	0.027	20.12 mg/L	0.027	0.14%
Mg 279.077†	3254.1	2.029 mg/L	0.0133	2.029 mg/L	0.0133	0.66%
Mn 257.610†	46607.1	1.019 mg/L	0.0048	1.019 mg/L	0.0048	0.47%
Mo 202.031†	23302.5	1.021 mg/L	0.0020	1.021 mg/L	0.0020	0.20%
Na 589.592†	674171.6	51.03 mg/L	0.151	51.03 mg/L	0.151	0.30%
Na 330.237†	1733.9	51.86 mg/L	0.424	51.86 mg/L	0.424	0.82%
Ni 231.604†	5215.2	1.016 mg/L	0.0083	1.016 mg/L	0.0083	0.82%
Pb 220.353†	19108.6	2.068 mg/L	0.0074	2.068 mg/L	0.0074	0.36%
Sb 206.836†	7882.4	2.097 mg/L	0.0051	2.097 mg/L	0.0051	0.24%
Se 196.026†	3417.4	1.982 mg/L	0.0074	1.982 mg/L	0.0074	0.37%
Si 288.158†	4954.1	2.129 mg/L	0.0157	2.129 mg/L	0.0157	0.74%
Sn 189.927†	4526.1	1.008 mg/L	0.0032	1.008 mg/L	0.0032	0.32%
Sr 421.552†	962572.9	1.005 mg/L	0.0015	1.005 mg/L	0.0015	0.15%
Ti 334.903†	25052.7	1.039 mg/L	0.0030	1.039 mg/L	0.0030	0.29%
Tl 190.801†	5567.7	1.979 mg/L	0.0014	1.979 mg/L	0.0014	0.07%
V 292.402†	133655.0	1.012 mg/L	0.0105	1.012 mg/L	0.0105	1.04%
Zn 206.200†	5032.7	1.048 mg/L	0.0061	1.048 mg/L	0.0061	0.58%

Sequence No.: 7
 Sample ID: CB
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/29/2012 10:53:16 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2932835.1	100.8	%	0.45			0.45%
ScR 361.383	393907.4	101.6	%	1.52			1.49%
Ag 328.068†	18.8	0.00010	mg/L	0.000121	0.00010	mg/L	0.000121 123.30%
Al 308.215†	-8.4	-0.00458	mg/L	0.011621	-0.00458	mg/L	0.011621 253.51%
As 188.979†	-0.1	-0.00002	mg/L	0.000558	-0.00002	mg/L	0.000558 >999.9%
B 249.677†	14.1	0.00160	mg/L	0.000696	0.00160	mg/L	0.000696 43.49%
Ba 233.527†	-1.5	-0.00028	mg/L	0.000416	-0.00028	mg/L	0.000416 149.89%
Be 313.042†	52.9	0.00007	mg/L	0.000027	0.00007	mg/L	0.000027 36.17%
Ca 317.933†	-5.2	-0.00031	mg/L	0.000165	-0.00031	mg/L	0.000165 53.06%
Cd 228.802†	1.1	0.00004	mg/L	0.000077	0.00004	mg/L	0.000077 212.13%
Co 228.616†	5.1	0.00011	mg/L	0.000068	0.00011	mg/L	0.000068 59.82%
Cr 267.716†	-3.4	-0.00043	mg/L	0.000952	-0.00043	mg/L	0.000952 221.58%
Cu 324.752†	20.2	0.00007	mg/L	0.000087	0.00007	mg/L	0.000087 120.94%
Fe 273.955†	1.9	0.00113	mg/L	0.001161	0.00113	mg/L	0.001161 102.49%
K 766.490†	-21.6	-0.00917	mg/L	0.004598	-0.00917	mg/L	0.004598 50.17%
Mg 279.077†	-8.2	-0.00511	mg/L	0.000553	-0.00511	mg/L	0.000553 10.81%
Mn 257.610†	0.2	0.00000	mg/L	0.000088	0.00000	mg/L	0.000088 >999.9%
Mo 202.031†	17.0	0.00074	mg/L	0.000049	0.00074	mg/L	0.000049 6.60%
Na 589.592†	72.5	0.00549	mg/L	0.001363	0.00549	mg/L	0.001363 24.85%
Na 330.237†	-8.3	-0.2475	mg/L	0.47889	-0.2475	mg/L	0.47889 193.50%
Ni 231.604†	1.1	0.00021	mg/L	0.000578	0.00021	mg/L	0.000578 271.47%
Pb 220.353†	-7.0	-0.00076	mg/L	0.000936	-0.00076	mg/L	0.000936 122.53%
Sb 206.836†	3.9	0.00106	mg/L	0.000706	0.00106	mg/L	0.000706 66.36%
Se 196.026†	-1.1	-0.00064	mg/L	0.002666	-0.00064	mg/L	0.002666 417.23%
Si 288.158†	-0.7	-0.00032	mg/L	0.001351	-0.00032	mg/L	0.001351 416.14%
Sn 189.927†	3.5	0.00078	mg/L	0.001217	0.00078	mg/L	0.001217 155.58%
Sr 421.552†	19.7	0.00002	mg/L	0.000041	0.00002	mg/L	0.000041 199.06%
Ti 334.903†	17.4	0.00072	mg/L	0.000724	0.00072	mg/L	0.000724 100.32%
Tl 190.801†	0.4	0.00013	mg/L	0.001850	0.00013	mg/L	0.001850 >999.9%
V 292.402†	6.9	0.00005	mg/L	0.000138	0.00005	mg/L	0.000138 276.34%
Zn 206.200†	1.1	0.00022	mg/L	0.000456	0.00022	mg/L	0.000456 208.25%

Sequence No.: 8
 Sample ID: VT85 MB SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 304
 Date Collected: 11/29/2012 10:57:31 AM
 Data Type: Original

Nebulizer Parameters: VT85 MB SWC

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VT85 MB SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2955615.3		101.6 %	0.44			0.43%
ScR 361.383	392319.1		101.2 %	0.88			0.87%
Ag 328.068†	-9.7	-0.00005	mg/L	0.000217	-0.00010	mg/L	0.000434 429.49%
Al 308.215†	-5.9	-0.00319	mg/L	0.004545	-0.00639	mg/L	0.009090 142.31%
As 188.979†	0.2	0.00012	mg/L	0.000457	0.00024	mg/L	0.000915 380.40%
B 249.677†	11.9	0.00134	mg/L	0.000646	0.00269	mg/L	0.001293 48.10%
Ba 233.527†	-4.6	-0.00083	mg/L	0.000081	-0.00167	mg/L	0.000163 9.77%
Be 313.042†	8.2	0.00001	mg/L	0.000021	0.00002	mg/L	0.000043 188.44%
Ca 317.933†	95.5	0.00568	mg/L	0.000434	0.01135	mg/L	0.000867 7.64%
Cd 228.802†	-0.2	-0.00001	mg/L	0.000130	-0.00002	mg/L	0.000259 >999.9%
Co 228.616†	7.6	0.00017	mg/L	0.000032	0.00033	mg/L	0.000063 19.07%
Cr 267.716†	0.1	0.00002	mg/L	0.001340	0.00004	mg/L	0.002681 >999.9%
Cu 324.752†	18.9	0.00007	mg/L	0.000038	0.00013	mg/L	0.000077 57.17%
Fe 273.955†	-1.0	-0.00056	mg/L	0.000953	-0.00113	mg/L	0.001905 169.34%
K 766.490†	-44.0	-0.01870	mg/L	0.005698	-0.03740	mg/L	0.011396 30.47%
Mg 279.077†	-7.0	-0.00435	mg/L	0.003154	-0.00871	mg/L	0.006307 72.44%
Mn 257.610†	-5.5	-0.00012	mg/L	0.000122	-0.00024	mg/L	0.000244 101.51%
Mo 202.031†	-3.9	-0.00017	mg/L	0.000119	-0.00034	mg/L	0.000238 70.33%
Na 589.592†	47.6	0.00360	mg/L	0.002077	0.00721	mg/L	0.004154 57.65%
Na 330.237†	-7.1	-0.2180	mg/L	0.50329	-0.4360	mg/L	1.00659 230.86%
Ni 231.604†	-0.7	-0.00014	mg/L	0.001089	-0.00027	mg/L	0.002177 795.65%
Pb 220.353†	0.5	0.00006	mg/L	0.000414	0.00012	mg/L	0.000828 712.06%
Sb 206.836†	2.5	0.00068	mg/L	0.002130	0.00136	mg/L	0.004260 314.07%
Se 196.026†	2.0	0.00118	mg/L	0.002263	0.00237	mg/L	0.004526 191.07%
Si 288.158†	-0.3	-0.00014	mg/L	0.001853	-0.00027	mg/L	0.003707 >999.9%
Sn 189.927†	0.6	0.00014	mg/L	0.000826	0.00028	mg/L	0.001652 594.09%
Sr 421.552†	0.1	0.00000	mg/L	0.000017	0.00000	mg/L	0.000033 >999.9%
Ti 334.903†	35.7	0.00148	mg/L	0.000638	0.00296	mg/L	0.001275 43.03%
Tl 190.801†	-0.6	-0.00021	mg/L	0.002088	-0.00041	mg/L	0.004177 >999.9%
V 292.402†	22.4	0.00017	mg/L	0.000138	0.00034	mg/L	0.000277 82.44%
Zn 206.200†	87.5	0.01823	mg/L	0.000563	0.03646	mg/L	0.001126 3.09%

Sequence No.: 9
Sample ID: VR82 F SWC
Analyst: BA
Dilution: 2.000000X

Autosampler Location: 305
Date Collected: 11/29/2012 11:01:47 AM
Data Type: Original

Nebulizer Parameters: VR82 F SWC
Analyte Back Pressure Flow
All 215.0 kPa 0.75 L/min

Mean Data: VR82 F SWC			Sample		RSD	
Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
SCA 357.253	2953001.2	101.5 %	0.57			0.56%
ScR 361.383	397483.7	102.5 %	0.55			0.53%
Ag 328.068†	-15.7	-0.00003 mg/L	0.000063	-0.00007 mg/L	0.000126	186.63%
Al 308.215†	90872.6	49.36 mg/L	0.387	98.71 mg/L	0.774	0.78%
As 188.979†	-116.5	0.02754 mg/L	0.002145	0.05509 mg/L	0.004290	7.79%
B 249.677†	113.0	0.01270 mg/L	0.000890	0.02540 mg/L	0.001780	7.01%
Ba 233.527†	1904.9	0.3308 mg/L	0.00137	0.6617 mg/L	0.00274	0.41%
Be 313.042†	665.6	0.00086 mg/L	0.000010	0.00172 mg/L	0.000020	1.16%
Ca 317.933†	346345.9	20.58 mg/L	0.127	41.16 mg/L	0.254	0.62%
Cd 228.802†	75.3	0.00212 mg/L	0.000007	0.00425 mg/L	0.000014	0.32%
Co 228.616†	1910.3	0.03588 mg/L	0.000276	0.07175 mg/L	0.000551	0.77%
Cr 267.716†	1105.1	0.1418 mg/L	0.00093	0.2837 mg/L	0.00185	0.65%
Cu 324.752†	28480.1	0.1042 mg/L	0.00076	0.2084 mg/L	0.00152	0.73%
Fe 273.955†	133201.2	78.52 mg/L	0.614	157.0 mg/L	1.23	0.78%
K 766.490†	5836.2	2.481 mg/L	0.0203	4.962 mg/L	0.0406	0.82%
Mg 279.077†	32767.1	20.32 mg/L	0.089	40.64 mg/L	0.178	0.44%
Mn 257.610†	87170.9	1.904 mg/L	0.0141	3.809 mg/L	0.0282	0.74%
Mo 202.031†	64.4	0.00259 mg/L	0.000089	0.00518 mg/L	0.000179	3.45%
Na 589.592†	13519.0	1.023 mg/L	0.0058	2.046 mg/L	0.0117	0.57%
Na 330.237†	2.3	0.5916 mg/L	0.08101	1.183 mg/L	0.1620	13.69%
Ni 231.604†	728.9	0.1420 mg/L	0.00097	0.2840 mg/L	0.00195	0.69%
Pb 220.353†	594.4	0.07300 mg/L	0.000216	0.1460 mg/L	0.00043	0.30%
Sb 206.836†	11.9	0.00301 mg/L	0.001796	0.00601 mg/L	0.003591	59.75%
Se 196.026†	15.1	0.00866 mg/L	0.004430	0.01732 mg/L	0.008860	51.16%
Si 288.158†	20246.0	8.707 mg/L	0.0450	17.41 mg/L	0.090	0.52%
Sn 189.927†	-27.4	-0.00312 mg/L	0.000067	-0.00624 mg/L	0.000134	2.15%
Sr 421.552†	134266.8	0.1402 mg/L	0.00106	0.2805 mg/L	0.00213	0.76%
Ti 334.903†	70636.2	2.931 mg/L	0.0220	5.863 mg/L	0.0439	0.75%
Tl 190.801†	-17.9	0.00115 mg/L	0.001855	0.00230 mg/L	0.003710	161.36%
V 292.402†	22108.2	0.1632 mg/L	0.00143	0.3264 mg/L	0.00287	0.88%
Zn 206.200†	2095.1	0.4365 mg/L	0.00165	0.8730 mg/L	0.00330	0.38%

Sequence No.: 10
 Sample ID: VR82 G SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 306
 Date Collected: 11/29/2012 11:05:47 AM
 Data Type: Original

Nebulizer Parameters: VR82 G SWC
 Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: VR82 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2933032.7	100.8 %	0.28			0.28%
ScR 361.383	395497.3	102.0 %	0.82			0.80%
Ag 328.068†	-34.4	-0.00013 mg/L	0.000061	-0.00026 mg/L	0.000122	47.32%
Al 308.215†	96764.1	52.56 mg/L	0.383	105.1 mg/L	0.77	0.73%
As 188.979†	-126.3	0.02598 mg/L	0.001699	0.05195 mg/L	0.003398	6.54%
B 249.677†	102.4	0.01150 mg/L	0.000857	0.02300 mg/L	0.001714	7.45%
Ba 233.527†	2052.1	0.3570 mg/L	0.00317	0.7140 mg/L	0.00633	0.89%
Be 313.042†	700.3	0.00091 mg/L	0.000023	0.00181 mg/L	0.000046	2.56%
Ca 317.933†	349113.0	20.74 mg/L	0.108	41.49 mg/L	0.216	0.52%
Cd 228.802†	79.6	0.00227 mg/L	0.000093	0.00454 mg/L	0.000186	4.09%
Co 228.616†	1963.2	0.03681 mg/L	0.000122	0.07363 mg/L	0.000245	0.33%
Cr 267.716†	1212.3	0.1555 mg/L	0.00039	0.3110 mg/L	0.00078	0.25%
Cu 324.752†	27732.5	0.1016 mg/L	0.00025	0.2032 mg/L	0.00050	0.25%
Fe 273.955†	137461.8	81.03 mg/L	0.453	162.1 mg/L	0.91	0.56%
K 766.490†	6255.5	2.659 mg/L	0.0127	5.319 mg/L	0.0254	0.48%
Mg 279.077†	34849.7	21.62 mg/L	0.175	43.23 mg/L	0.350	0.81%
Mn 257.610†	87938.0	1.921 mg/L	0.0086	3.842 mg/L	0.0172	0.45%
Mo 202.031†	61.1	0.00244 mg/L	0.000162	0.00489 mg/L	0.000323	6.61%
Na 589.592†	13862.4	1.049 mg/L	0.0052	2.098 mg/L	0.0105	0.50%
Na 330.237†	1.4	0.5909 mg/L	0.04703	1.182 mg/L	0.0941	7.96%
Ni 231.604†	763.3	0.1487 mg/L	0.00075	0.2974 mg/L	0.00151	0.51%
Pb 220.353†	596.3	0.07389 mg/L	0.000229	0.1478 mg/L	0.00046	0.31%
Sb 206.836†	13.7	0.00336 mg/L	0.001397	0.00672 mg/L	0.002793	41.58%
Se 196.026†	10.2	0.00582 mg/L	0.002465	0.01164 mg/L	0.004931	42.35%
Si 288.158†	20499.2	8.816 mg/L	0.0611	17.63 mg/L	0.122	0.69%
Sn 189.927†	-35.5	-0.00489 mg/L	0.001120	-0.00977 mg/L	0.002240	22.91%
Sr 421.552†	138070.7	0.1442 mg/L	0.00076	0.2884 mg/L	0.00152	0.53%
Ti 334.903†	73251.5	3.040 mg/L	0.0156	6.080 mg/L	0.0312	0.51%
Tl 190.801†	-19.0	0.00098 mg/L	0.001019	0.00196 mg/L	0.002037	103.92%
V 292.402†	23068.7	0.1703 mg/L	0.00084	0.3407 mg/L	0.00168	0.49%
Zn 206.200†	2094.1	0.4363 mg/L	0.00485	0.8726 mg/L	0.00969	1.11%

Sequence No.: 11
 Sample ID: VR82 H SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 307
 Date Collected: 11/29/2012 11:09:47 AM
 Data Type: Original

Nebulizer Parameters: VR82 H SWC
 Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VR82 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
SCA 357.253	2959136.0	101.7	%	0.69				0.67%
SCR 361.383	404107.5	104.2	%	0.90				0.86%
Ag 328.068†	-58.0	-0.00024	mg/L	0.000315	-0.00049	mg/L	0.000630	128.70%
Al 308.215†	114831.3	62.37	mg/L	0.142	124.7	mg/L	0.28	0.23%
As 188.979†	-160.6	0.02587	mg/L	0.000244	0.05174	mg/L	0.000487	0.94%
B 249.677†	102.5	0.01150	mg/L	0.000139	0.02299	mg/L	0.000277	1.21%
Ba 233.527†	2161.9	0.3751	mg/L	0.00266	0.7501	mg/L	0.00533	0.71%
Be 313.042†	745.0	0.00096	mg/L	0.000025	0.00191	mg/L	0.000050	2.60%
Ca 317.933†	366076.3	21.75	mg/L	0.073	43.50	mg/L	0.146	0.34%
Cd 228.802†	86.1	0.00250	mg/L	0.000144	0.00500	mg/L	0.000287	5.75%
Co 228.616†	2202.6	0.04092	mg/L	0.000120	0.08184	mg/L	0.000240	0.29%
Cr 267.716†	1417.7	0.1819	mg/L	0.00235	0.3638	mg/L	0.00470	1.29%
Cu 324.752†	31818.5	0.1165	mg/L	0.00079	0.2330	mg/L	0.00157	0.67%
Fe 273.955†	155219.7	91.50	mg/L	0.539	183.0	mg/L	1.08	0.59%
K 766.490†	7082.7	3.011	mg/L	0.0093	6.022	mg/L	0.0186	0.31%
Mg 279.077†	37926.5	23.52	mg/L	0.112	47.04	mg/L	0.224	0.48%
Mn 257.610†	90534.2	1.978	mg/L	0.0109	3.956	mg/L	0.0219	0.55%
Mo 202.031†	69.6	0.00280	mg/L	0.000142	0.00561	mg/L	0.000284	5.07%
Na 589.592†	16338.4	1.237	mg/L	0.0042	2.473	mg/L	0.0084	0.34%
Na 330.237†	3.7	0.7777	mg/L	0.04632	1.555	mg/L	0.0926	5.96%
Ni 231.604†	856.1	0.1668	mg/L	0.00130	0.3336	mg/L	0.00259	0.78%
Pb 220.353†	707.6	0.08788	mg/L	0.000142	0.1758	mg/L	0.00028	0.16%
Sb 206.836†	10.8	0.00255	mg/L	0.000727	0.00511	mg/L	0.001455	28.48%
Se 196.026†	3.7	0.00203	mg/L	0.005535	0.00406	mg/L	0.011070	272.70%
Si 288.158†	21512.6	9.252	mg/L	0.0834	18.50	mg/L	0.167	0.90%
Sn 189.927†	-35.2	-0.00461	mg/L	0.000756	-0.00922	mg/L	0.001512	16.40%
Sr 421.552†	142535.4	0.1489	mg/L	0.00037	0.2978	mg/L	0.00075	0.25%
Ti 334.903†	86881.5	3.606	mg/L	0.0108	7.212	mg/L	0.0215	0.30%
Tl 190.801†	-24.5	0.00004	mg/L	0.003687	0.00007	mg/L	0.007374	>999.9%
V 292.402†	26272.3	0.1939	mg/L	0.00145	0.3879	mg/L	0.00290	0.75%
Zn 206.200†	2264.1	0.4717	mg/L	0.00349	0.9434	mg/L	0.00699	0.74%

Sequence No.: 12
 Sample ID: VR82 I SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 308
 Date Collected: 11/29/2012 11:13:47 AM
 Data Type: Original

Nebulizer Parameters: VR82 I SWC
 Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VR82 I SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2956549.8	101.6	%	0.49				0.48%
ScR 361.383	397830.8	102.6	%	0.41				0.40%
Ag 328.068†	-41.7	-0.00017	mg/L	0.000169	-0.00033	mg/L	0.000339	101.79%
Al 308.215†	101849.5	55.32	mg/L	0.038	110.6	mg/L	0.08	0.07%
As 188.979†	-148.0	0.02051	mg/L	0.000533	0.04101	mg/L	0.001066	2.60%
B 249.677†	98.0	0.01100	mg/L	0.000786	0.02201	mg/L	0.001572	7.14%
Ba 233.527†	1963.8	0.3412	mg/L	0.00115	0.6823	mg/L	0.00231	0.34%
Be 313.042†	694.1	0.00090	mg/L	0.000014	0.00179	mg/L	0.000028	1.56%
Ca 317.933†	339543.5	20.18	mg/L	0.017	40.35	mg/L	0.035	0.09%
Cd 228.802†	73.9	0.00216	mg/L	0.000116	0.00432	mg/L	0.000233	5.39%
Co 228.616†	1868.2	0.03438	mg/L	0.000309	0.06877	mg/L	0.000617	0.90%
Cr 267.716†	1274.1	0.1634	mg/L	0.00027	0.3268	mg/L	0.00053	0.16%
Cu 324.752†	28909.4	0.1057	mg/L	0.00138	0.2115	mg/L	0.00275	1.30%
Fe 273.955†	136280.8	80.34	mg/L	0.184	160.7	mg/L	0.37	0.23%
K 766.490†	6596.8	2.804	mg/L	0.0101	5.609	mg/L	0.0202	0.36%
Mg 279.077†	34396.6	21.33	mg/L	0.050	42.67	mg/L	0.101	0.24%
Mn 257.610†	77827.8	1.700	mg/L	0.0019	3.401	mg/L	0.0039	0.11%
Mo 202.031†	63.8	0.00257	mg/L	0.000072	0.00514	mg/L	0.000144	2.81%
Na 589.592†	14413.5	1.091	mg/L	0.0047	2.182	mg/L	0.0094	0.43%
Na 330.237†	-1.3	0.5471	mg/L	0.09821	1.094	mg/L	0.1964	17.95%
Ni 231.604†	744.1	0.1450	mg/L	0.00188	0.2900	mg/L	0.00376	1.30%
Pb 220.353†	671.2	0.08270	mg/L	0.000698	0.1654	mg/L	0.00140	0.84%
Sb 206.836†	12.3	0.00293	mg/L	0.000537	0.00587	mg/L	0.001075	18.32%
Se 196.026†	8.9	0.00502	mg/L	0.002925	0.01003	mg/L	0.005851	58.31%
Si 288.158†	20955.8	9.013	mg/L	0.0259	18.03	mg/L	0.052	0.29%
Sn 189.927†	-35.8	-0.00501	mg/L	0.000500	-0.01003	mg/L	0.001000	9.97%
Sr 421.552†	131225.8	0.1371	mg/L	0.00013	0.2741	mg/L	0.00026	0.09%
Ti 334.903†	77279.0	3.207	mg/L	0.0037	6.415	mg/L	0.0073	0.11%
Tl 190.801†	-16.5	0.00182	mg/L	0.000783	0.00364	mg/L	0.001565	43.00%
V 292.402†	23268.7	0.1718	mg/L	0.00218	0.3436	mg/L	0.00436	1.27%
Zn 206.200†	2113.0	0.4403	mg/L	0.00181	0.8805	mg/L	0.00362	0.41%

Sequence No.: 13
 Sample ID: VT85 ADUP SWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 309
 Date Collected: 11/29/2012 11:17:47 AM
 Data Type: Original

Nebulizer Parameters: VT85 ADUP SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VT85 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2966552.3	102.0	%	0.25			0.25%
ScR 361.383	404035.2	104.2	%	1.13			1.08%
Ag 328.068†	-100.7	-0.00047	mg/L	0.000303	-0.00236	0.001517	64.15%
Al 308.215†	175557.0	95.36	mg/L	1.155	476.8	5.78	1.21%
As 188.979†	-64.7	0.02008	mg/L	0.002169	0.1004	0.01085	10.81%
B 249.677†	40.9	0.00453	mg/L	0.000314	0.02264	0.001572	6.94%
Ba 233.527†	2429.0	0.4230	mg/L	0.00240	2.115	0.0120	0.57%
Be 313.042†	1280.7	0.00173	mg/L	0.000021	0.00866	0.000103	1.19%
Ca 317.933†	130100.6	7.730	mg/L	0.1120	38.65	0.560	1.45%
Cd 228.802†	36.3	0.00054	mg/L	0.000056	0.00272	0.000280	10.31%
Co 228.616†	2096.2	0.04204	mg/L	0.000599	0.2102	0.00299	1.42%
Cr 267.716†	699.9	0.09081	mg/L	0.001532	0.4540	0.00766	1.69%
Cu 324.752†	46818.8	0.1704	mg/L	0.00208	0.8521	0.01038	1.22%
Fe 273.955†	158272.9	93.30	mg/L	0.960	466.5	4.80	1.03%
K 766.490†	6404.5	2.723	mg/L	0.0438	13.61	0.219	1.61%
Mg 279.077†	33326.7	20.66	mg/L	0.249	103.3	1.24	1.20%
Mn 257.610†	103997.5	2.272	mg/L	0.0274	11.36	0.137	1.21%
Mo 202.031†	26.9	0.00109	mg/L	0.000381	0.00545	0.001905	34.97%
Na 589.592†	5864.7	0.4439	mg/L	0.00471	2.219	0.0235	1.06%
Na 330.237†	-13.3	-0.06231	mg/L	0.216829	-0.3116	1.08415	347.98%
Ni 231.604†	504.0	0.09821	mg/L	0.000963	0.4910	0.00481	0.98%
Pb 220.353†	3433.5	0.3903	mg/L	0.00303	1.951	0.0152	0.78%
Sb 206.836†	15.1	0.00417	mg/L	0.001546	0.02085	0.007728	37.07%
Se 196.026†	22.4	0.01285	mg/L	0.001310	0.06427	0.006551	10.19%
Si 288.158†	2500.3	1.078	mg/L	0.0078	5.388	0.0389	0.72%
Sn 189.927†	-19.9	-0.00319	mg/L	0.000483	-0.01595	0.002417	15.15%
Sr 421.552†	58486.9	0.06109	mg/L	0.000740	0.3055	0.00370	1.21%
Ti 334.903†	43082.3	1.788	mg/L	0.0210	8.941	0.1052	1.18%
Tl 190.801†	-30.2	-0.00171	mg/L	0.000801	-0.00857	0.004006	46.76%
V 292.402†	23595.6	0.1744	mg/L	0.00214	0.8719	0.01069	1.23%
Zn 206.200†	1042.6	0.2172	mg/L	0.00107	1.086	0.0053	0.49%

Sequence No.: 14
 Sample ID: VT85 A SWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 310
 Date Collected: 11/29/2012 11:21:47 AM
 Data Type: Original

Nebulizer Parameters: VT85 A SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VT85 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2963125.0	101.9	%	0.59				0.57%
ScR 361.383	400026.7	103.2	%	1.00				0.97%
Ag 328.068†	-115.2	-0.00055	mg/L	0.000177	-0.00273	mg/L	0.000887	32.45%
Al 308.215†	184380.6	100.2	mg/L	0.34	500.8	mg/L	1.71	0.34%
As 188.979†	-70.3	0.02327	mg/L	0.002299	0.1163	mg/L	0.01150	9.88%
B 249.677†	42.6	0.00473	mg/L	0.000580	0.02363	mg/L	0.002900	12.27%
Ba 233.527†	2477.2	0.4309	mg/L	0.00418	2.155	mg/L	0.0209	0.97%
Be 313.042†	1573.4	0.00214	mg/L	0.000036	0.01068	mg/L	0.000178	1.67%
Ca 317.933†	125553.9	7.460	mg/L	0.0404	37.30	mg/L	0.202	0.54%
Cd 228.802†	38.7	0.00059	mg/L	0.000175	0.00293	mg/L	0.000874	29.86%
Co 228.616†	1989.4	0.03921	mg/L	0.000252	0.1960	mg/L	0.00126	0.64%
Cr 267.716†	711.3	0.09244	mg/L	0.000452	0.4622	mg/L	0.00226	0.49%
Cu 324.752†	45336.0	0.1653	mg/L	0.00119	0.8266	mg/L	0.00596	0.72%
Fe 273.955†	166254.2	98.01	mg/L	0.534	490.0	mg/L	2.67	0.55%
K 766.490†	5532.1	2.352	mg/L	0.0126	11.76	mg/L	0.063	0.54%
Mg 279.077†	32912.6	20.40	mg/L	0.081	102.0	mg/L	0.41	0.40%
Mn 257.610†	117982.7	2.577	mg/L	0.0129	12.89	mg/L	0.064	0.50%
Mo 202.031†	41.2	0.00172	mg/L	0.000188	0.00860	mg/L	0.000941	10.93%
Na 589.592†	5920.6	0.4481	mg/L	0.00263	2.241	mg/L	0.0132	0.59%
Na 330.237†	-17.2	-0.1336	mg/L	0.30155	-0.6678	mg/L	1.50776	225.79%
Ni 231.604†	475.9	0.09272	mg/L	0.001448	0.4636	mg/L	0.00724	1.56%
Pb 220.353†	2888.3	0.3323	mg/L	0.00134	1.661	mg/L	0.0067	0.40%
Sb 206.836†	17.9	0.00503	mg/L	0.001776	0.02515	mg/L	0.008879	35.31%
Se 196.026†	20.5	0.01177	mg/L	0.000348	0.05884	mg/L	0.001740	2.96%
Si 288.158†	2148.6	0.9263	mg/L	0.01065	4.631	mg/L	0.0532	1.15%
Sn 189.927†	-18.9	-0.00299	mg/L	0.000483	-0.01493	mg/L	0.002414	16.16%
Sr 421.552†	60449.2	0.06314	mg/L	0.000272	0.3157	mg/L	0.00136	0.43%
Ti 334.903†	47972.5	1.991	mg/L	0.0079	9.956	mg/L	0.0393	0.40%
Tl 190.801†	-29.9	-0.00109	mg/L	0.001140	-0.00543	mg/L	0.005702	104.94%
V 292.402†	24357.1	0.1799	mg/L	0.00152	0.8994	mg/L	0.00761	0.85%
Zn 206.200†	1021.4	0.2128	mg/L	0.00182	1.064	mg/L	0.0091	0.86%

Sequence No.: 15
 Sample ID: VT85 ASPK SWC
 Analyst: BA
 Dilution: 5.000000X

Autosampler Location: 311
 Date Collected: 11/29/2012 11:25:47 AM
 Data Type: Original

Nebulizer Parameters: VT85 ASPK SWC

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: VT85 ASPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2962051.8		101.8 %	0.59				0.57%
ScR 361.383	400022.4		103.2 %	0.97				0.94%
Ag 328.068†	40014.0		0.2084 mg/L	0.00104	1.042 mg/L		0.0052	0.50%
Al 308.215†	187813.5		102.0 mg/L	0.88	510.1 mg/L		4.40	0.86%
As 188.979†	1603.2		0.8147 mg/L	0.00704	4.074 mg/L		0.0352	0.86%
B 249.677†	36.3		0.00359 mg/L	0.000969	0.01796 mg/L		0.004845	26.97%
Ba 233.527†	6912.3		1.231 mg/L	0.0135	6.156 mg/L		0.0677	1.10%
Be 313.042†	150531.0		0.2101 mg/L	0.00160	1.050 mg/L		0.0080	0.76%
Ca 317.933†	190613.2		11.33 mg/L	0.092	56.63 mg/L		0.458	0.81%
Cd 228.802†	7009.4		0.2159 mg/L	0.00164	1.080 mg/L		0.0082	0.76%
Co 228.616†	11391.0		0.2488 mg/L	0.00220	1.244 mg/L		0.0110	0.89%
Cr 267.716†	2361.0		0.3022 mg/L	0.00297	1.511 mg/L		0.0148	0.98%
Cu 324.752†	104874.2		0.3774 mg/L	0.00216	1.887 mg/L		0.0108	0.57%
Fe 273.955†	166246.9		98.00 mg/L	0.951	490.0 mg/L		4.75	0.97%
K 766.490†	17321.2		7.364 mg/L	0.0366	36.82 mg/L		0.183	0.50%
Mg 279.077†	43190.9		26.79 mg/L	0.246	134.0 mg/L		1.23	0.92%
Mn 257.610†	114728.2		2.506 mg/L	0.0216	12.53 mg/L		0.108	0.86%
Mo 202.031†	67.5		0.00282 mg/L	0.000178	0.01410 mg/L		0.000891	6.32%
Na 589.592†	60148.5		4.552 mg/L	0.0388	22.76 mg/L		0.194	0.85%
Na 330.237†	125.4		4.081 mg/L	0.1301	20.40 mg/L		0.651	3.19%
Ni 231.604†	1548.4		0.3013 mg/L	0.00362	1.507 mg/L		0.0181	1.20%
Pb 220.353†	10923.5		1.202 mg/L	0.0083	6.010 mg/L		0.0413	0.69%
Sb 206.836†	21.1		0.00370 mg/L	0.000600	0.01850 mg/L		0.003002	16.23%
Se 196.026†	1405.5		0.8153 mg/L	0.00726	4.076 mg/L		0.0363	0.89%
Si 288.158†	2269.4		0.9798 mg/L	0.00791	4.899 mg/L		0.0396	0.81%
Sn 189.927†	-30.7		-0.00509 mg/L	0.000486	-0.02544 mg/L		0.002432	9.56%
Sr 421.552†	258047.9		0.2695 mg/L	0.00218	1.348 mg/L		0.0109	0.81%
Ti 334.903†	49015.9		2.034 mg/L	0.0172	10.17 mg/L		0.086	0.85%
Tl 190.801†	2186.7		0.7879 mg/L	0.00832	3.939 mg/L		0.0416	1.06%
V 292.402†	52747.6		0.3948 mg/L	0.00283	1.974 mg/L		0.0142	0.72%
Zn 206.200†	2048.4		0.4268 mg/L	0.00452	2.134 mg/L		0.0226	1.06%

Sequence No.: 16
 Sample ID: VT85 MBSPK SWC
 Analyst: BA
 Dilution: 2.000000X

Autosampler Location: 312
 Date Collected: 11/29/2012 11:29:47 AM
 Data Type: Original

Nebulizer Parameters: VT85 MBSPK SWC

Analyte Back Pressure Flow
 All 216.0 kPa 0.75 L/min

Mean Data: VT85 MBSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2935463.1	100.9	%	0.20			0.20%
ScR 361.383	398577.2	102.8	%	0.92			0.90%
Ag 328.068†	102744.4	0.5349	mg/L	0.00186	1.070	mg/L	0.0037 0.35%
Al 308.215†	3718.4	2.012	mg/L	0.0155	4.025	mg/L	0.0310 0.77%
As 188.979†	4344.6	2.052	mg/L	0.0115	4.103	mg/L	0.0229 0.56%
B 249.677†	7.8	-0.00016	mg/L	0.000508	-0.00032	mg/L	0.001016 315.62%
Ba 233.527†	11103.1	2.003	mg/L	0.0153	4.006	mg/L	0.0306 0.76%
Be 313.042†	367465.4	0.5130	mg/L	0.00452	1.026	mg/L	0.0090 0.88%
Ca 317.933†	166559.9	9.897	mg/L	0.0620	19.79	mg/L	0.124 0.63%
Cd 228.802†	16916.0	0.5217	mg/L	0.00266	1.043	mg/L	0.0053 0.51%
Co 228.616†	22727.8	0.5068	mg/L	0.00247	1.014	mg/L	0.0049 0.49%
Cr 267.716†	3963.5	0.5044	mg/L	0.00345	1.009	mg/L	0.0069 0.68%
Cu 324.752†	145733.3	0.5194	mg/L	0.00194	1.039	mg/L	0.0039 0.37%
Fe 273.955†	3542.4	2.085	mg/L	0.0191	4.169	mg/L	0.0381 0.91%
K 766.490†	23360.2	9.931	mg/L	0.0445	19.86	mg/L	0.089 0.45%
Mg 279.077†	16385.5	10.18	mg/L	0.081	20.37	mg/L	0.162 0.80%
Mn 257.610†	22895.0	0.5005	mg/L	0.00390	1.001	mg/L	0.0078 0.78%
Mo 202.031†	20.0	0.00074	mg/L	0.000258	0.00149	mg/L	0.000517 34.78%
Na 589.592†	131323.1	9.940	mg/L	0.0355	19.88	mg/L	0.071 0.36%
Na 330.237†	334.2	9.853	mg/L	0.1855	19.71	mg/L	0.371 1.88%
Ni 231.604†	2567.1	0.4993	mg/L	0.00452	0.9985	mg/L	0.00903 0.90%
Pb 220.353†	18946.8	2.050	mg/L	0.0105	4.100	mg/L	0.0211 0.51%
Sb 206.836†	13.0	-0.00182	mg/L	0.000056	-0.00364	mg/L	0.000112 3.07%
Se 196.026†	3537.1	2.052	mg/L	0.0046	4.104	mg/L	0.0092 0.22%
Si 288.158†	-5.8	0.00066	mg/L	0.002409	0.00132	mg/L	0.004819 364.37%
Sn 189.927†	-24.0	-0.00406	mg/L	0.000192	-0.00811	mg/L	0.000385 4.74%
Sr 421.552†	485972.5	0.5076	mg/L	0.00266	1.015	mg/L	0.0053 0.52%
Ti 334.903†	52.2	0.00159	mg/L	0.000396	0.00319	mg/L	0.000793 24.87%
Tl 190.801†	5654.9	2.013	mg/L	0.0133	4.027	mg/L	0.0265 0.66%
V 292.402†	67631.5	0.5121	mg/L	0.00188	1.024	mg/L	0.0038 0.37%
Zn 206.200†	2416.7	0.5036	mg/L	0.00479	1.007	mg/L	0.0096 0.95%

Sequence No.: 17
 Sample ID: CV 2
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 11/29/2012 11:33:47 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 214.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2918655.3	100.3 %	0.59			0.59%
ScR 361.383	386134.5	99.59 %	0.444			0.45%
Ag 328.068†	200936.4	1.046 mg/L	0.0058	1.046 mg/L	0.0058	0.56%
Al 308.215†	3768.2	2.012 mg/L	0.0242	2.012 mg/L	0.0242	1.20%
As 188.979†	4273.3	2.044 mg/L	0.0130	2.044 mg/L	0.0130	0.64%
B 249.677†	8944.7	1.011 mg/L	0.0041	1.011 mg/L	0.0041	0.40%
Ba 233.527†	5642.9	1.018 mg/L	0.0047	1.018 mg/L	0.0047	0.46%
Be 313.042†	725934.6	1.013 mg/L	0.0052	1.013 mg/L	0.0052	0.51%
Ca 317.933†	35139.0	2.088 mg/L	0.0114	2.088 mg/L	0.0114	0.55%
Cd 228.802†	32836.7	1.026 mg/L	0.0091	1.026 mg/L	0.0091	0.89%
Co 228.616†	45001.3	1.002 mg/L	0.0061	1.002 mg/L	0.0061	0.60%
Cr 267.716†	7955.3	1.014 mg/L	0.0013	1.014 mg/L	0.0013	0.13%
Cu 324.752†	288929.4	1.029 mg/L	0.0070	1.029 mg/L	0.0070	0.68%
Fe 273.955†	3552.4	2.087 mg/L	0.0085	2.087 mg/L	0.0085	0.41%
K 766.490†	47719.4	20.29 mg/L	0.139	20.29 mg/L	0.139	0.69%
Mg 279.077†	3245.9	2.025 mg/L	0.0146	2.025 mg/L	0.0146	0.72%
Mn 257.610†	46797.7	1.023 mg/L	0.0049	1.023 mg/L	0.0049	0.48%
Mo 202.031†	23572.6	1.033 mg/L	0.0040	1.033 mg/L	0.0040	0.39%
Na 589.592†	681155.2	51.55 mg/L	0.246	51.55 mg/L	0.246	0.48%
Na 330.237†	1741.1	52.08 mg/L	0.334	52.08 mg/L	0.334	0.64%
Ni 231.604†	5212.5	1.016 mg/L	0.0064	1.016 mg/L	0.0064	0.63%
Pb 220.353†	19337.6	2.093 mg/L	0.0127	2.093 mg/L	0.0127	0.61%
Sb 206.836†	7991.7	2.127 mg/L	0.0095	2.127 mg/L	0.0095	0.45%
Se 196.026†	3462.6	2.008 mg/L	0.0088	2.008 mg/L	0.0088	0.44%
Si 288.158†	4978.0	2.140 mg/L	0.0142	2.140 mg/L	0.0142	0.66%
Sn 189.927†	4590.4	1.023 mg/L	0.0047	1.023 mg/L	0.0047	0.46%
Sr 421.552†	973310.8	1.017 mg/L	0.0042	1.017 mg/L	0.0042	0.41%
Ti 334.903†	25308.2	1.049 mg/L	0.0057	1.049 mg/L	0.0057	0.54%
Tl 190.801†	5646.1	2.006 mg/L	0.0104	2.006 mg/L	0.0104	0.52%
V 292.402†	135931.6	1.029 mg/L	0.0065	1.029 mg/L	0.0065	0.63%
Zn 206.200†	5046.1	1.051 mg/L	0.0069	1.051 mg/L	0.0069	0.66%

Sequence No.: 18
 Sample ID: CB 2
 Analyst: BA
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 11/29/2012 11:38:08 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 215.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2955614.4	101.6 %	1.23			1.21%
ScR 361.383	400969.0	103.4 %	0.46			0.45%
Ag 328.068†	8.3	0.00004 mg/L	0.000032	0.00004 mg/L	0.000032	73.16%
Al 308.215†	-3.7	-0.00203 mg/L	0.007365	-0.00203 mg/L	0.007365	362.07%
As 188.979†	5.3	0.00255 mg/L	0.001595	0.00255 mg/L	0.001595	62.60%
B 249.677†	7.7	0.00087 mg/L	0.001459	0.00087 mg/L	0.001459	167.03%
Ba 233.527†	-2.8	-0.00050 mg/L	0.000687	-0.00050 mg/L	0.000687	137.47%
Be 313.042†	31.9	0.00004 mg/L	0.000024	0.00004 mg/L	0.000024	53.72%
Ca 317.933†	5.4	0.00032 mg/L	0.000946	0.00032 mg/L	0.000946	294.85%
Cd 228.802†	0.4	-0.00001 mg/L	0.000205	-0.00001 mg/L	0.000205	>999.9%
Co 228.616†	3.6	0.00008 mg/L	0.000046	0.00008 mg/L	0.000046	58.41%
Cr 267.716†	4.0	0.00052 mg/L	0.000532	0.00052 mg/L	0.000532	103.20%
Cu 324.752†	47.3	0.00017 mg/L	0.000063	0.00017 mg/L	0.000063	37.45%
Fe 273.955†	-1.5	-0.00090 mg/L	0.002355	-0.00090 mg/L	0.002355	262.35%
K 766.490†	-54.1	-0.02299 mg/L	0.008931	-0.02299 mg/L	0.008931	38.84%
Mg 279.077†	-5.1	-0.00319 mg/L	0.001476	-0.00319 mg/L	0.001476	46.29%
Mn 257.610†	-2.6	-0.00006 mg/L	0.000115	-0.00006 mg/L	0.000115	205.44%
Mo 202.031†	8.6	0.00038 mg/L	0.000150	0.00038 mg/L	0.000150	39.57%
Na 589.592†	37.0	0.00280 mg/L	0.003002	0.00280 mg/L	0.003002	107.22%
Na 330.237†	1.8	0.05274 mg/L	0.211620	0.05274 mg/L	0.211620	401.24%
Ni 231.604†	-1.2	-0.00024 mg/L	0.001259	-0.00024 mg/L	0.001259	529.98%
Pb 220.353†	-4.7	-0.00050 mg/L	0.000597	-0.00050 mg/L	0.000597	118.45%
Sb 206.836†	-0.1	-0.00002 mg/L	0.001625	-0.00002 mg/L	0.001625	>999.9%
Se 196.026†	-1.4	-0.00079 mg/L	0.000759	-0.00079 mg/L	0.000759	96.27%
Si 288.158†	-0.9	-0.00037 mg/L	0.002201	-0.00037 mg/L	0.002201	591.58%
Sn 189.927†	1.3	0.00028 mg/L	0.000697	0.00028 mg/L	0.000697	249.52%
Sr 421.552†	25.1	0.00003 mg/L	0.000029	0.00003 mg/L	0.000029	110.37%
Ti 334.903†	20.4	0.00085 mg/L	0.000736	0.00085 mg/L	0.000736	87.13%
Tl 190.801†	1.0	0.00037 mg/L	0.001418	0.00037 mg/L	0.001418	379.37%
V 292.402†	3.7	0.00003 mg/L	0.000140	0.00003 mg/L	0.000140	465.06%
Zn 206.200†	4.5	0.00093 mg/L	0.000663	0.00093 mg/L	0.000663	71.43%



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 11-27-12

Analyst: ★

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

11-27-12

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		ST00			2991-10
		1			2990-12
		2			2994-14
		3			2995-1
		4			2994-3
		5			2995-2
		Rinse Sample			
		ST00			
		ICV			2976-7
		ICB			
		CCV1			
		CCB1			
		ZZZZZZ			62 Ni low
		ICSA			
		ICSB			
		LR200			Aghap
		LR300			Ba high
		B1			
		B2			
		B3			
		CCV2			ST00
		CCB2			CCV3
		Low check			CCB3
		VST1 MBI	REN	2	



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 11-27-12 Analyst: HA Page: 2 of 6

All corrections made by analyst unless otherwise noted.

11-27-12

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		VS17 MBLspl	REN	Z	
		MBZspl			
		A Dup			Con high RPD
		A			(CAR)
		Aspl			
		EDup			Con High RPD
		E			(CAR)
		E spl			
		acrv			The low
		acv5			The high #11-28
		VS17 BABZ	REN	Z	
		B			
		C			
		D			
		E			
		F			
		G			
		H			
		VT58 D	SWW	20/100	#11-28-12
		E			
		F			
		acv5			
		acv5			The low
✓		VS20 MBI	SWW	20	Ag CV out
↓		MBZspl			



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 11-27-12

Analyst: JA

Page: 3 of 6

All corrections made by analyst unless otherwise noted.

11-28-12

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	VS20 B	SWW	20	Ag CV out
	↓	C			
	↓	D			
		D		500	Pb
	✓	E		20	Ag CV out
	↓	G			
	↓	H			
SWW	↓	I			
		CCV6			Ag high
		CCB6			⁶² Ni low
		VS21 A-L	SWW	500	✓ Pb Zn
		A		100	
		ADup			✓
		Aspic			✓
ZZZ		22220 Post			
		B		200	
		D		100	Zn, Pb
		E			✓ Zn
		G		50	V Cr Co
		H			
		CCV7			Ag high
		CCB7			⁶² Ni low
		VS21 I	SWW	100	Pb Zn
		J		50	V Cr Co Zn



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 11-27-12 Analyst: MA Page: 4 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	VS21 J	SwN	100	use box
		VR02 C		20	
		D			
		E			
		F			
		G			
		H			
		I			
		cevs			Ag high
		cevs			⁶² Ni low
	✓	VS21 MB1	SwN	20	Clout (Ag)
	h	MB1spk		↓	↓
		A-L		100	RR Ag See box for ADZ
		A		20	100 ↓
		ADup			CAF ↓
		ASOL			↓ 5000% RD ↓
		APost			0.106 ml sol # 24.0 0.106 ml sol # 11.0 56
	✓	B			Clout (Ag)
	↓	C			↓
	↓	D			↓
		cevs			Ag high
		cevs			⁶² Ni ↓
	✓	VR08 MB2spk	REN	2	Clout (Ag)
	h	↓ I	↓	5	↓



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 11-27-12 Analyst: MA Page: 5 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	VSZ1 E	SWN	20	Out (Ag)
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		CCV10			
		CCB10			6 ⁺ Ni low
MSI		VR50 MSZ1	SWN	20	
		↓ MSZ1K	↓	↓	←
		VR80 B	RESN	10	Ag
		↓ C	↓	↓	↓
		↓ D	↓	↓	↓
		VR50 ADup	SWN	20	✓
		↓ A	↓	↓	✓
		↓ ASPK	↓	↓	✓
		↓ B	↓	↓	
		↓ C	↓	↓	
		CCV4			
		CCB11			
		VR50 D	SWN	20	
		↓ E	↓	↓	

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 11-27-12

	Analyst	Peer	Comment
<i>Dexion</i>	<i>MZ</i>	<i>MJT</i>	
<i>11-28-12</i>			
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	<i>See log</i>
ICB/CCB	✓	✓	<i>b</i>
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	<i>VS21</i>
Matrix Duplicates	✓	✓	<i>VS17</i>
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	<i>CAF VS17 VS21</i>

Daily Performance Report

Sample ID: Daily Performance Check

Sample Date/Time: Tuesday, November 27, 2012 10:33:19

Sample Description:

Method File: C:\NexIONData\Method\Daily Performancenew.mth

Dataset File: C:\NexIONData\Dataset\Default\Daily Performance Check.1336

MassCal File: C:\NexIONData\MassCal\Default.tun

Conditions File: C:\NexIONData\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 60

Current Dead Time (ns): 60

Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD	Mode
Be	9.0		6203.4		6203.375		25.244		0.4	Standard
Mg	24.0		44252.9		44252.930		414.582		0.9	Standard
In	114.9		81469.2		81469.237		363.087		0.4	Standard
Pb	208.0		34913.9		34913.921		209.815		0.6	Standard
U	238.1		62797.3		62797.269		550.689		0.9	Standard
[CeO	155.9		1686.6		0.022		0.002		6.9	Standard
[> Ce	139.9		76796.6		76796.576		256.936		0.3	Standard
[Ce++	70.0		1531.6		0.020		0.000		2.1	Standard
Bkgd	220.0		0.0		0.000		0.000			Standard

Current Conditions File Data

Current Value	Description
1.07	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-12.00	Deflector Voltage
1600.00	ICP RF Power
-1675.00	Analog Stage Voltage
1300.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-15.00	Cell Rod Offset STD [CRO]
7.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.06	DRC Mode NEB
-8.00	DRC Mode QRO
-2.50	DRC Mode CRO
-4.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-15.00	KED Mode CRO
-12.00	KED Mode QRO
-2.00	KED Mode Cell Entrance Voltage
-24.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
4.00	KED Cell Gas B

Sample ID: Daily Performance Check

Report Date/Time: Tuesday, November 27, 2012 10:35:52

Page 1

VR82 : 01872

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\NexIONData\wizard\SmartTune\aristDaily+torch.swz

Start Time: 11/27/2012 10:28:15 AM

End Time: 11/27/2012 10:32:26 AM

AutoLens STD/DRC - [Passed] Optimum value(s): Correlation Coefficient = 0.996; Intercept = -12.09

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\NexIONData\Wizard\SmartTune\aristDaily+torch.swz

Start Time: 11/27/2012 10:22:45 AM

End Time: 11/27/2012 10:24:58 AM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.693)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.712)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.720)

Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.713)

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\NexIONData\wizard\SmartTune\aristDaily+torch.swz

Start Time: 11/27/2012 10:14:45 AM

End Time: 11/27/2012 10:22:06 AM

Daily Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9.0122): 4641.23

Obtained Intensity (Mg 23.985): 35091.60

Obtained Intensity (In 114.904): 63970.60

Obtained Intensity (Pb 207.977): 28835.54

Obtained Intensity (U 238.05): 50953.17

Obtained Intensity (Bkgd 220): 0.00

Obtained Formula (CeO 155.9 / Ce 139.905): 0.014 (=917.58 / 64557.70)

Obtained Formula (Ce++ 69.9527 / Ce 139.905): 0.016 (=1005.99 / 64557.70)

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.41 mm	0.86 mm	83649.74

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:11:54

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L				1748871	0
[Be	9		ug/L				12	4
C	13		ug/L				135150	2
Cl	37		ug/L				4700084	2
> Sc	45		ug/L				1248950	3
V	51		ug/L				9366	3
V-1	51		ug/L				95	5
Cr	52		ug/L				27600	3
Cr	53		ug/L				154	5
Mn	55		ug/L				744	3
Co	59		ug/L				85	13
> Ge	72		ug/L				653857	1
Ni	60		ug/L				88	12
Ni	62		ug/L				1029	0
Cu	63		ug/L				1305	4
Cu	65		ug/L				124	2
Zn	66		ug/L				746	8
Zn	67		ug/L				102	13
Zn	68		ug/L				566	2
As	75		ug/L				290	4
As-1	75		ug/L				10162	0
Se	82		ug/L				3	284
Se	78		ug/L				10335	0
Mo	98		ug/L				10	33
Y	89		ug/L				409313	3
Kr	83		ug/L				616	3
> In	115		ug/L				974648	1
Ag	107		ug/L				16	27
Cd	111		ug/L				86	14
Cd	114		ug/L				30	39
Sb	121		ug/L				27	29
Sb	123		ug/L				23	6
Ba	135		ug/L				36	6
Ba	137		ug/L				59	9
> Tb	159		ug/L				1103082	1
Tl	205		ug/L				38	8
Pb	208		ug/L				557	2
Bi	209		ug/L				2721879	0
Th	232		ug/L				38	14
U	238		ug/L				2	78

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:16:03

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1754959	0
[Be	9	0.200	ug/L	0.004	1	12	977	1
C	13		ug/L			135150	136685	3
Cl	37		ug/L			4700084	4680214	1
> Sc	45		ug/L			1248950	1249024	0
V	51	0.200	ug/L	0.007	3	9366	14318	1
V-1	51	0.200	ug/L	0.002	0	95	5161	0
Cr	52	0.500	ug/L	0.019	3	27600	37842	1
Cr	53	0.500	ug/L	0.012	2	154	1348	2
Mn	55	0.500	ug/L	0.011	2	744	14491	1
Co	59	0.200	ug/L	0.001	0	85	4279	1
> Ge	72		ug/L			653857	656244	1
Ni	60	0.500	ug/L	0.011	2	88	2259	3
Ni	62	0.500	ug/L	0.119	23	1029	1307	4
Cu	63	0.500	ug/L	0.004	0	1305	6220	1
Cu	65	0.500	ug/L	0.013	2	124	2398	1
Zn	66	4.000	ug/L	0.029	0	746	12356	1
Zn	67	4.000	ug/L	0.105	2	102	1885	2
Zn	68	4.000	ug/L	0.047	1	566	8527	0
As	75	0.200	ug/L	0.006	3	290	771	2
As-1	75	0.200	ug/L	0.040	19	10162	10702	0
Se	82	0.500	ug/L	0.044	8	3	139	9
Se	78	0.500	ug/L	0.133	26	10335	10742	0
Mo	98	0.200	ug/L	0.010	5	10	1013	4
Y	89		ug/L			409313	404442	0
Kr	83		ug/L			616	619	4
> In	115		ug/L			974648	975026	1
Ag	107	0.200	ug/L	0.002	0	16	2449	2
Cd	111	0.100	ug/L	0.001	1	86	574	1
Cd	114	0.100	ug/L	0.003	2	30	1330	3
Sb	121	0.200	ug/L	0.006	2	27	2807	2
Sb	123	0.200	ug/L	0.009	4	23	2077	4
Ba	135	0.500	ug/L	0.025	5	36	2128	3
Ba	137	0.500	ug/L	0.016	3	59	3668	2
> Tb	159		ug/L			1103082	1111470	0
Tl	205	0.200	ug/L	0.003	1	38	7636	1
Pb	208	0.100	ug/L	0.001	1	557	5595	0
Bi	209		ug/L			2721879	2723686	0
Th	232	0.200	ug/L	0.028	13	38	5452	14
U	238	0.200	ug/L	0.002	1	2	9463	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:20:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1787527	1
[Be	9	10.000	ug/L	0.137	1	12	48753	1
C	13		ug/L			135150	137100	5
Cl	37		ug/L			4700084	4891482	1
> Sc	45		ug/L			1248950	1289925	1
V	51	10.000	ug/L	0.190	1	9366	252299	0
V-1	51	10.000	ug/L	0.193	1	95	242681	0
Cr	52	10.000	ug/L	0.150	1	27600	240702	0
Cr	53	9.999	ug/L	0.160	1	154	24123	0
Mn	55	10.000	ug/L	0.284	2	744	287554	1
Co	59	10.000	ug/L	0.195	1	85	209425	1
> Ge	72		ug/L			653857	683707	1
Ni	60	10.000	ug/L	0.071	0	88	44862	2
Ni	62	10.002	ug/L	0.178	1	1029	7264	0
Cu	63	9.999	ug/L	0.211	2	1305	100752	1
Cu	65	9.999	ug/L	0.166	1	124	45585	0
Zn	66	9.851	ug/L	0.419	4	746	28019	2
Zn	67	9.974	ug/L	0.247	2	102	4664	2
Zn	68	9.918	ug/L	0.379	3	566	20149	2
As	75	10.000	ug/L	0.169	1	290	23456	0
As-1	75	9.999	ug/L	0.223	2	10162	33831	1
Se	82	9.997	ug/L	0.147	1	3	2529	0
Se	78	9.995	ug/L	0.347	3	10335	17283	1
Mo	98	10.000	ug/L	0.219	2	10	50914	0
Y	89		ug/L			409313	423475	0
Kr	83		ug/L			616	657	5
> In	115		ug/L			974648	995207	1
Ag	107	10.000	ug/L	0.055	0	16	118992	1
Cd	111	10.000	ug/L	0.218	2	86	49726	1
Cd	114	10.000	ug/L	0.072	0	30	124992	0
Sb	121	10.000	ug/L	0.117	1	27	143428	0
Sb	123	10.000	ug/L	0.198	1	23	109688	1
Ba	135	10.000	ug/L	0.245	2	36	42669	1
Ba	137	10.000	ug/L	0.172	1	59	73096	0
> Tb	159		ug/L			1103082	1145258	0
Tl	205	10.000	ug/L	0.077	0	38	376703	0
Pb	208	10.000	ug/L	0.074	0	557	496459	0
Bi	209		ug/L			2721879	2767601	1
Th	232	10.001	ug/L	0.133	1	38	428108	0
U	238	10.000	ug/L	0.091	0	2	487248	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:24:35

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1757767	1
[Be	9	20.020	ug/L	0.404	2	12	96327	0
C	13		ug/L			135150	133191	2
Cl	37		ug/L			4700084	5104790	3
> Sc	45		ug/L			1248950	1269346	1
V	51	20.028	ug/L	0.336	1	9366	490475	1
V-1	51	20.048	ug/L	0.390	1	95	483355	0
Cr	52	19.988	ug/L	0.152	0	27600	444511	1
Cr	53	20.053	ug/L	0.416	2	154	47952	1
Mn	55	20.056	ug/L	0.338	1	744	573187	0
[Co	59	20.056	ug/L	0.512	2	85	417887	1
> Ge	72		ug/L			653857	670934	0
Ni	60	19.984	ug/L	0.203	1	88	87596	0
Ni	62	20.068	ug/L	0.126	0	1029	13410	0
Cu	63	20.005	ug/L	0.366	1	1305	196677	1
Cu	65	20.057	ug/L	0.243	1	124	90643	1
Zn	66	19.973	ug/L	0.336	1	746	54736	2
Zn	67	20.128	ug/L	0.106	0	102	9335	0
Zn	68	20.033	ug/L	0.482	2	566	39580	2
As	75	20.062	ug/L	0.115	0	290	46457	0
As-1	75	20.092	ug/L	0.100	0	10162	57050	0
Se	82	20.098	ug/L	0.109	0	3	5087	0
Se	78	20.192	ug/L	0.123	0	10335	23960	0
[Mo	98	20.095	ug/L	0.254	1	10	102360	0
Y	89		ug/L			409313	418479	2
Kr	83		ug/L			616	611	1
> In	115		ug/L			974648	989497	0
Ag	107	20.014	ug/L	0.556	2	16	237434	2
Cd	111	20.011	ug/L	0.094	0	86	99068	0
Cd	114	19.966	ug/L	0.181	0	30	246424	0
Sb	121	19.978	ug/L	0.065	0	27	283646	0
Sb	123	19.964	ug/L	0.156	0	23	216193	0
Ba	135	19.993	ug/L	0.370	1	36	84672	1
Ba	137	20.004	ug/L	0.260	1	59	145454	0
> Tb	159		ug/L			1103082	1127022	0
Tl	205	20.033	ug/L	0.243	1	38	747506	1
Pb	208	20.023	ug/L	0.049	0	557	982245	0
Bi	209		ug/L			2721879	2755571	0
Th	232	20.183	ug/L	0.139	0	38	882409	0
[U	238	20.054	ug/L	0.165	0	2	972124	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:29:07

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1731648	3
Be	9	49.785	ug/L	1.995	4	12	230862	2
C	13		ug/L			135150	133248	0
Cl	37		ug/L			4700084	5205492	2
> Sc	45		ug/L			1248950	1256917	1
V	51	49.978	ug/L	1.241	2	9366	1195030	1
V-1	51	50.022	ug/L	1.568	3	95	1196507	1
Cr	52	49.841	ug/L	0.993	1	27600	1039809	0
Cr	53	49.989	ug/L	2.317	4	154	117970	3
Mn	55	50.022	ug/L	0.684	1	744	1417670	0
Co	59	49.816	ug/L	0.875	1	85	1009169	0
> Ge	72		ug/L			653857	650758	1
Ni	60	50.074	ug/L	1.227	2	88	214326	1
Ni	62	49.915	ug/L	0.794	1	1029	30574	0
Cu	63	49.932	ug/L	1.465	2	1305	470924	1
Cu	65	49.715	ug/L	1.112	2	124	211681	1
Zn	66	49.929	ug/L	0.793	1	746	130696	0
Zn	67	49.864	ug/L	0.947	1	102	21990	0
Zn	68	50.005	ug/L	0.724	1	566	95025	0
As	75	50.041	ug/L	0.532	1	290	112417	0
As-1	75	50.031	ug/L	0.810	1	10162	123054	0
Se	82	50.162	ug/L	0.549	1	3	12511	1
Se	78	50.136	ug/L	1.254	2	10335	42887	1
Mo	98	50.241	ug/L	0.166	0	10	254341	1
Y	89		ug/L			409313	411900	1
Kr	83		ug/L			616	646	2
> In	115		ug/L			974648	959690	1
Ag	107	49.930	ug/L	0.491	0	16	570499	0
Cd	111	49.945	ug/L	0.412	0	86	238375	0
Cd	114	49.962	ug/L	0.879	1	30	595805	2
Sb	121	50.145	ug/L	0.237	0	27	700643	0
Sb	123	50.036	ug/L	0.669	1	23	527339	0
Ba	135	50.074	ug/L	0.704	1	36	207158	0
Ba	137	50.155	ug/L	0.244	0	59	359182	0
> Tb	159		ug/L			1103082	1111649	1
Tl	205	49.935	ug/L	0.594	1	38	1825901	0
Pb	208	49.852	ug/L	0.520	1	557	2375934	1
Bi	209		ug/L			2721879	2633749	0
Th	232	50.940	ug/L	0.877	1	38	2424247	0
U	238	50.683	ug/L	0.627	1	2	2600720	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:35:19

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1774113	0
[Be	9	99.312	ug/L	1.162	1	12	461590	1
C	13		ug/L			135150	131596	2
Cl	37		ug/L			4700084	5124632	3
> Sc	45		ug/L			1248950	1276987	2
V	51	101.202	ug/L	2.936	2	9366	2550115	2
V-1	51	100.649	ug/L	3.070	3	95	2499809	2
Cr	52	100.876	ug/L	2.800	2	27600	2171249	0
Cr	53	98.969	ug/L	2.662	2	154	229263	0
Mn	55	100.096	ug/L	3.266	3	744	2889390	1
Co	59	100.408	ug/L	7.229	7	85	2093797	6
> Ge	72		ug/L			653857	645580	1
Ni	60	99.195	ug/L	2.233	2	88	410079	0
Ni	62	99.568	ug/L	1.990	1	1029	58657	0
Cu	63	99.545	ug/L	2.582	2	1305	916197	1
Cu	65	99.520	ug/L	0.863	0	124	413660	0
Zn	66	99.611	ug/L	1.133	1	746	254659	0
Zn	67	99.186	ug/L	1.850	1	102	42160	1
Zn	68	99.456	ug/L	2.998	3	566	183616	2
As	75	99.834	ug/L	0.976	0	290	220986	0
As-1	75	99.926	ug/L	0.941	0	10162	233265	0
Se	82	99.312	ug/L	1.918	1	3	24014	0
Se	78	99.671	ug/L	2.317	2	10335	73799	0
Mo	98	99.841	ug/L	1.017	1	10	498711	0
Y	89		ug/L			409313	404729	1
Kr	83		ug/L			616	722	2
> In	115		ug/L			974648	950599	0
Ag	107	99.942	ug/L	3.145	3	16	1128794	2
Cd	111	99.263	ug/L	1.652	1	86	457918	0
Cd	114	99.644	ug/L	1.180	1	30	1163084	0
Sb	121	99.616	ug/L	0.751	0	27	1361223	0
Sb	123	99.723	ug/L	1.111	1	23	1031515	0
Ba	135	99.928	ug/L	2.264	2	36	408449	1
Ba	137	99.969	ug/L	1.705	1	59	708333	1
> Tb	159		ug/L			1103082	1109709	0
Tl	205	101.445	ug/L	0.785	0	38	3890674	0
Pb	208	100.649	ug/L	0.518	0	557	4894125	0
Bi	209		ug/L			2721879	2553005	0
Th	232	100.071	ug/L	0.830	0	38	4766240	1
U	238	100.118	ug/L	0.381	0	2	5149172	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse sample

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:42:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112612b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1748871	1747440	2
Be	9	0.001	ug/L	0.001	92	12	16	21
C	13		ug/L			135150	133018	4
Cl	37		ug/L			4700084	5008380	1
> Sc	45		ug/L			1248950	1257424	1
V	51	-0.001	ug/L	0.013	1049	9366	9397	1
V-1	51	0.001	ug/L	0.001	90	95	116	16
Cr	52	0.002	ug/L	0.039	1924	27600	27822	1
Cr	53	0.009	ug/L	0.005	60	154	175	8
Mn	55	-0.006	ug/L	0.001	13	744	588	3
Co	59	0.000	ug/L	0.001	143	85	93	13
> Ge	72		ug/L			653857	661902	1
Ni	60	-0.014	ug/L	0.001	7	88	31	11
Ni	62	-0.410	ug/L	0.127	30	1029	799	9
Cu	63	-0.040	ug/L	0.009	21	1305	944	7
Cu	65	-0.012	ug/L	0.002	18	124	76	12
Zn	66	-0.180	ug/L	0.008	4	746	286	8
Zn	67	-0.123	ug/L	0.002	2	102	49	3
Zn	68	-0.150	ug/L	0.016	10	566	291	11
As	75	-0.003	ug/L	0.010	314	290	286	7
As-1	75	0.039	ug/L	0.047	120	10162	10376	0
Se	82	-0.019	ug/L	0.031	158	3	0	790
Se	78	0.128	ug/L	0.153	119	10335	10545	0
Mo	98	0.022	ug/L	0.004	20	10	121	17
Y	89		ug/L			409313	411333	1
Kr	83		ug/L			616	623	2
> In	115		ug/L			974648	960487	0
Ag	107	0.006	ug/L	0.006	100	16	79	79
Cd	111	0.005	ug/L	0.007	150	86	107	30
Cd	114	0.004	ug/L	0.005	130	30	72	76
Sb	121	0.125	ug/L	0.006	4	27	1756	5
Sb	123	0.126	ug/L	0.005	3	23	1341	4
Ba	135	-0.002	ug/L	0.003	204	36	28	49
Ba	137	-0.002	ug/L	0.002	64	59	41	26
> Tb	159		ug/L			1103082	1092855	1
Tl	205	0.020	ug/L	0.007	34	38	795	32
Pb	208	-0.000	ug/L	0.002	351	557	531	13
Bi	209		ug/L			2721879	2728117	0
Th	232	0.237	ug/L	0.020	8	38	11148	8
U	238	0.004	ug/L	0.001	17	2	220	17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 11:57:01

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L				1765270	2
[Be	9		ug/L				15	38
C	13		ug/L				135652	1
Cl	37		ug/L				4937799	2
> Sc	45		ug/L				1259345	0
V	51		ug/L				9617	0
V-1	51		ug/L				89	11
Cr	52		ug/L				28547	0
Cr	53		ug/L				178	2
Mn	55		ug/L				554	7
Co	59		ug/L				85	13
> Ge	72		ug/L				658458	1
Ni	60		ug/L				39	31
Ni	62		ug/L				675	3
Cu	63		ug/L				740	5
Cu	65		ug/L				68	2
Zn	66		ug/L				249	3
Zn	67		ug/L				35	30
Zn	68		ug/L				261	4
As	75		ug/L				273	4
As-1	75		ug/L				10384	0
Se	82		ug/L				-5	234
Se	78		ug/L				10570	0
Mo	98		ug/L				27	9
Y	89		ug/L				411113	1
Kr	83		ug/L				642	5
> In	115		ug/L				961280	1
Ag	107		ug/L				29	24
Cd	111		ug/L				85	2
Cd	114		ug/L				29	31
Sb	121		ug/L				475	19
Sb	123		ug/L				362	13
Ba	135		ug/L				21	4
Ba	137		ug/L				28	15
> Tb	159		ug/L				1095087	0
Tl	205		ug/L				336	45
Pb	208		ug/L				458	1
Bi	209		ug/L				2703449	1
Th	232		ug/L				2412	23
U	238		ug/L				41	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:01:10

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1785027	1
[Be	9	50.554	ug/L	1.814	3	15	236387	3
C	13		ug/L			135652	138688	3
Cl	37		ug/L			4937799	5209957	2
> Sc	45		ug/L			1259345	1280804	1
V	51	49.643	ug/L	1.337	2	9617	1259926	1
V-1	51	50.026	ug/L	1.269	2	89	1246441	1
Cr	52	49.101	ug/L	0.625	1	28547	1075708	1
Cr	53	50.395	ug/L	0.767	1	178	117242	1
Mn	55	49.655	ug/L	0.674	1	554	1438427	0
Co	59	49.905	ug/L	2.282	4	85	1044223	3
> Ge	72		ug/L			658458	661454	1
Ni	60	51.110	ug/L	1.182	2	39	216468	0
Ni	62	50.588	ug/L	0.812	1	675	30685	1
Cu	63	50.826	ug/L	0.905	1	740	479472	2
Cu	65	51.403	ug/L	0.732	1	68	218894	0
Zn	66	50.142	ug/L	0.945	1	249	131216	2
Zn	67	50.524	ug/L	0.846	1	35	21985	1
Zn	68	50.082	ug/L	0.332	0	261	94722	1
As	75	49.988	ug/L	0.752	1	273	113487	0
As-1	75	50.390	ug/L	1.032	2	10384	125751	0
Se	82	78.055	ug/L	0.647	0	-5	19332	1
Se	78	78.396	ug/L	1.539	1	10570	61867	0
Mo	98	49.358	ug/L	1.112	2	27	252593	1
Y	89		ug/L			411113	417054	0
Kr	83		ug/L			642	690	2
> In	115		ug/L			961280	977377	0
Ag	107	50.813	ug/L	1.024	2	29	590209	2
Cd	111	49.975	ug/L	0.364	0	85	237099	0
Cd	114	49.236	ug/L	0.499	1	29	590924	0
Sb	121	48.893	ug/L	0.321	0	475	687395	0
Sb	123	49.139	ug/L	0.144	0	362	523000	0
Ba	135	50.293	ug/L	0.435	0	21	211384	0
Ba	137	49.934	ug/L	0.327	0	28	363786	0
> Tb	159		ug/L			1095087	1118185	1
Tl	205	48.366	ug/L	1.223	2	336	1868906	0
Pb	208	49.316	ug/L	0.622	1	458	2416236	0
Bi	209		ug/L			2703449	2676799	0
Th	232	51.930	ug/L	0.835	1	2412	2494195	0
U	238	52.137	ug/L	0.834	1	41	2701483	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:08:02

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1748642	0
[Be	9	0.001	ug/L	0.001	50	15	22	15
C	13		ug/L			135652	139886	3
Cl	37		ug/L			4937799	5137510	3
> Sc	45		ug/L			1259345	1255689	2
V	51	-0.006	ug/L	0.010	160	9617	9432	1
V-1	51	0.001	ug/L	0.001	70	89	120	17
Cr	52	-0.032	ug/L	0.034	108	28547	27794	1
Cr	53	-0.007	ug/L	0.007	107	178	162	8
Mn	55	0.001	ug/L	0.001	182	554	567	4
Co	59	0.000	ug/L	0.001	178	85	92	14
> Ge	72		ug/L			658458	653990	2
Ni	60	-0.002	ug/L	0.001	67	39	32	15
Ni	62	-0.198	ug/L	0.061	30	675	554	6
Cu	63	-0.008	ug/L	0.001	17	740	661	4
Cu	65	-0.001	ug/L	0.002	152	68	62	12
Zn	66	0.003	ug/L	0.009	325	249	254	9
Zn	67	-0.000	ug/L	0.012	4462	35	35	15
Zn	68	-0.005	ug/L	0.006	126	261	250	5
As	75	0.008	ug/L	0.003	40	273	290	4
As-1	75	0.040	ug/L	0.118	293	10384	10401	0
Se	82	-0.009	ug/L	0.081	900	-5	-6	285
Se	78	0.119	ug/L	0.409	343	10570	10572	0
Mo	98	0.006	ug/L	0.001	14	27	58	5
Y	89		ug/L			411113	404657	1
Kr	83		ug/L			642	649	5
> In	115		ug/L			961280	955963	0
Ag	107	0.001	ug/L	0.001	117	29	37	24
Cd	111	0.004	ug/L	0.001	15	85	104	2
Cd	114	0.001	ug/L	0.000	28	29	37	5
Sb	121	0.002	ug/L	0.007	452	475	495	20
Sb	123	0.000	ug/L	0.005	1274	362	364	13
Ba	135	0.000	ug/L	0.001	3614	21	21	24
Ba	137	0.002	ug/L	0.002	99	28	39	28
> Tb	159		ug/L			1095087	1079236	0
Tl	205	-0.003	ug/L	0.002	78	336	223	37
Pb	208	0.001	ug/L	0.001	110	458	488	7
Bi	209		ug/L			2703449	2717260	0
Th	232	0.073	ug/L	0.011	14	2412	5751	7
U	238	0.002	ug/L	0.000	12	41	118	7

Sample Information

Sample Date/Time: Tuesday, November 27, 2012 12:08:02

Method File: C:\NexIONData\Method\200.8nomin.mth

Mass Calibration File: C:\NexIONData\MassCal\Default.tun

Conditions File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Calibration

Analyte	Mass	r Corr Coef	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	0.9999	0.003	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	0.9998	0.020	0.20	10	20	50	100
V-1	51	0.9999	0.019	0.20	10	20	50	100
Cr	52	0.9999	0.017	0.50	10	20	50	100
Cr	53	0.9998	0.002	0.50	10	20	50	100
Mn	55	1.0000	0.023	0.50	10	20	50	100
Co	59	1.0000	0.016	0.20	10	20	50	100
Ge	72							
Ni	60	0.9999	0.006	0.50	10	20	50	100
Ni	62	1.0000	0.001	0.50	10	20	50	100
Cu	63	1.0000	0.014	0.50	10	20	50	100
Cu	65	0.9999	0.006	0.50	10	20	50	100
Zn	66	1.0000	0.004	4.00	10	20	50	100
Zn	67	0.9999	0.001	4.00	10	20	50	100
Zn	68	0.9999	0.003	4.00	10	20	50	100
As	75	1.0000	0.003	0.20	10	20	50	100
As-1	75	1.0000	0.003	0.20	10	20	50	100
Se	82	0.9999	0.000	0.50	10	20	50	100
Se	78	1.0000	0.001	0.50	10	20	50	100
Mo	98	1.0000	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.012	0.20	10	20	50	100
Cd	111	0.9999	0.005	0.10	10	20	50	100
Cd	114	1.0000	0.012	0.10	10	20	50	100
Sb	121	1.0000	0.014	0.20	10	20	50	100
Sb	123	1.0000	0.011	0.20	10	20	50	100
Ba	135	1.0000	0.004	0.50	10	20	50	100
Ba	137	1.0000	0.007	0.50	10	20	50	100
Tb	159							
Tl	205	0.9997	0.035	0.20	10	20	50	100
Pb	208	0.9999	0.044	0.10	10	20	50	100
Bi	209							
Th	232	0.9998	0.043	0.20	10	20	50	100
U	238	0.9999	0.046	0.20	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:18:46

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1777355	1
[Be	9	51.135	ug/L	1.526	2	15	238057	1
C	13		ug/L			135652	135627	3
Cl	37		ug/L			4937799	5147273	2
> Sc	45		ug/L			1259345	1298192	1
V	51	47.632	ug/L	0.716	1	9617	1225768	0
V-1	51	48.104	ug/L	0.451	0	89	1214946	0
Cr	52	48.035	ug/L	1.242	2	28547	1067081	1
Cr	53	49.671	ug/L	0.749	1	178	117119	1
Mn	55	48.177	ug/L	0.950	1	554	1414461	0
Co	59	48.157	ug/L	0.752	1	85	1021518	1
> Ge	72		ug/L			658458	662066	1
Ni	60	50.504	ug/L	1.543	3	39	214095	1
Ni	62	51.210	ug/L	1.959	3	675	31077	2
Cu	63	50.824	ug/L	1.341	2	740	479772	1
Cu	65	50.822	ug/L	2.494	4	68	216556	3
Zn	66	50.790	ug/L	2.044	4	249	132988	2
Zn	67	51.442	ug/L	1.486	2	35	22402	1
Zn	68	50.440	ug/L	0.906	1	261	95476	0
As	75	49.948	ug/L	0.371	0	273	113512	0
As-1	75	49.801	ug/L	0.216	0	10384	124542	1
Se	82	50.511	ug/L	0.661	1	-5	12519	0
Se	78	49.970	ug/L	0.153	0	10570	43332	1
Mo	98	49.668	ug/L	0.651	1	27	254454	1
Y	89		ug/L			411113	412794	1
Kr	83		ug/L			642	688	2
> In	115		ug/L			961280	970287	0
Ag	107	49.815	ug/L	1.376	2	29	574437	3
Cd	111	50.969	ug/L	0.401	0	85	240061	0
Cd	114	49.891	ug/L	0.906	1	29	594457	1
Sb	121	49.924	ug/L	0.396	0	475	696808	0
Sb	123	49.860	ug/L	0.201	0	362	526815	0
Ba	135	50.135	ug/L	0.884	1	21	209195	1
Ba	137	49.726	ug/L	0.901	1	28	359639	1
> Tb	159		ug/L			1095087	1128899	0
Tl	205	46.712	ug/L	0.369	0	336	1822757	0
Pb	208	48.137	ug/L	0.570	1	458	2381274	0
Bi	209		ug/L			2703449	2675349	1
Th	232	49.958	ug/L	0.455	0	2412	2422923	0
U	238	50.310	ug/L	0.525	1	41	2632087	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:25:18

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1727319	1
[Be	9	0.001	ug/L	0.001	187	15	18	37
C	13		ug/L			135652	138730	1
Cl	37		ug/L			4937799	4918244	1
> Sc	45		ug/L			1259345	1248197	0
V	51	0.002	ug/L	0.013	611	9617	9583	3
V-1	51	0.002	ug/L	0.002	98	89	125	30
Cr	52	-0.003	ug/L	0.034	1238	28547	28238	2
Cr	53	-0.005	ug/L	0.008	168	178	166	10
Mn	55	0.001	ug/L	0.001	122	554	581	7
[Co	59	0.001	ug/L	0.001	126	85	105	24
> Ge	72		ug/L			658458	645470	2
Ni	60	-0.002	ug/L	0.000	17	39	28	8
Ni	62	-0.314	ug/L	0.030	9	675	480	2
Cu	63	-0.019	ug/L	0.002	11	740	553	1
Cu	65	-0.001	ug/L	0.002	148	68	61	11
Zn	66	0.003	ug/L	0.006	181	249	252	6
Zn	67	0.014	ug/L	0.020	145	35	40	18
Zn	68	0.009	ug/L	0.010	109	261	272	8
As	75	0.014	ug/L	0.006	42	273	299	2
As-1	75	0.079	ug/L	0.122	155	10384	10351	0
Se	82	0.061	ug/L	0.042	69	-5	9	104
Se	78	0.278	ug/L	0.433	156	10570	10535	0
[Mo	98	0.007	ug/L	0.001	13	27	63	8
Y	89		ug/L			411113	406945	0
Kr	83		ug/L			642	623	1
> In	115		ug/L			961280	952611	0
Ag	107	0.001	ug/L	0.001	71	29	43	23
Cd	111	-0.000	ug/L	0.001	616	85	84	8
Cd	114	0.001	ug/L	0.000	48	29	40	13
Sb	121	0.034	ug/L	0.005	15	475	933	7
Sb	123	0.034	ug/L	0.007	20	362	712	10
Ba	135	0.000	ug/L	0.001	528	21	21	20
[Ba	137	0.002	ug/L	0.000	19	28	40	5
> Tb	159		ug/L			1095087	1083274	0
Tl	205	0.002	ug/L	0.004	228	336	403	39
Pb	208	0.001	ug/L	0.001	87	458	486	6
Bi	209		ug/L			2703449	2700642	0
Th	232	0.138	ug/L	0.019	13	2412	8809	9
[U	238	0.002	ug/L	0.000	16	41	160	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~LOW-CHECK~~ 22222

Sample Dil Factor: 11-27-12

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:29:26

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1743373	1
[Be	9	0.215 ✓	ug/L	0.002	0	15	995	2
C	13		ug/L			135652	139713	1
Cl	37		ug/L			4937799	4986873	2
> Sc	45		ug/L			1259345	1281834	1
V	51	0.197 ✓	ug/L	0.007	3	9617	14761	0
V-1	51	0.203 ✓	ug/L	0.002	0	89	5154	1
Cr	52	0.458 ✓	ug/L	0.029	6	28547	38822	0
Cr	53	0.487 ✓	ug/L	0.011	2	178	1314	1
Mn	55	0.494 ✓	ug/L	0.003	0	554	14879	0
[Co	59	0.203 ✓	ug/L	0.000	0	85	4341	1
> Ge	72		ug/L			658458	665139	2
Ni	60	0.516 ✓	ug/L	0.004	0	39	2235	1
Ni	62	0.154 ✓	ug/L <i>baseline</i>	0.055	36	675	774	3
Cu	63	0.507 ✓	ug/L	0.026	5	740	5549	2
Cu	65	0.517 ✓	ug/L	0.029	5	68	2281	3
Zn	66	4.539 ✓	ug/L	0.167	3	249	12169	3
Zn	67	4.181 ✓	ug/L	0.175	4	35	1861	1
Zn	68	4.356 ✓	ug/L	0.121	2	261	8524	1
As	75	0.212 ✓	ug/L	0.007	3	273	759	1
As-1	75	0.148 ✓	ug/L	0.065	44	10384	10827	1
Se	82	0.529 ✓	ug/L	0.045	8	-5	126	9
Se	78	0.323 ✓	ug/L	0.220	68	10570	10888	1
[Mo	98	0.196 ✓	ug/L	0.004	1	27	1037	1
Y	89		ug/L			411113	412006	1
Kr	83		ug/L			642	674	1
> In	115		ug/L			961280	969137	1
Ag	107	0.208 ✓	ug/L	0.003	1	29	2427	2
Cd	111	0.109 ✓	ug/L	0.011	9	85	599	9
Cd	114	0.106 ✓	ug/L	0.001	0	29	1294	1
Sb	121	0.184 ✓	ug/L	0.003	1	475	3040	0
Sb	123	0.185 ✓	ug/L	0.005	2	362	2318	2
Ba	135	0.490 ✓	ug/L	0.006	1	21	2064	0
Ba	137	0.494 ✓	ug/L	0.010	2	28	3594	1
> Tb	159		ug/L			1095087	1094432	0
Tl	205	0.195 ✓	ug/L	0.002	1	336	7715	0
Pb	208	0.103 ✓	ug/L	0.002	1	458	5406	1
Bi	209		ug/L			2703449	2724842	0
Th	232	0.149 ✓	ug/L	0.006	3	2412	9417	2
[U	238	0.189 ✓	ug/L	0.003	1	41	9642	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:33:34

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1794970	2
[Be	9	-0.000	ug/L	0.001	398	15	14	35
C	13		ug/L			135652	235656	2
Cl	37		ug/L			4937799	15121651	2
> Sc	45		ug/L			1259345	1275034	2
V	51	0.085	ug/L	0.011	13	9617	11853	0
V-1	51	0.662	ug/L	0.010	1	89	16509	3
Cr	52	0.482	ug/L	0.055	11	28547	39121	1
Cr	53	2.477	ug/L	0.004	0	178	5909	2
Mn	55	0.070	ug/L	0.002	2	554	2572	4
Co	59	0.026	ug/L	0.002	6	85	632	3
> Ge	72		ug/L			658458	662302	0
Ni	60	0.340	ug/L	0.015	4	39	1483	4
Ni	62	3.314	ug/L	0.469	14	675	2648	10
Cu	63	0.945	ug/L	0.048	5	740	9654	5
Cu	65	0.351	ug/L	0.019	5	68	1566	4
Zn	66	0.932	ug/L	0.038	4	249	2686	3
Zn	67	5.410	ug/L	0.105	1	35	2389	2
Zn	68	0.366	ug/L	0.018	4	261	954	3
As	75	0.074	ug/L	0.017	23	273	442	8
As-1	75	0.126	ug/L	0.020	15	10384	10733	0
Se	82	-0.222	ug/L	0.094	42	-5	-60	39
Se	78	0.312	ug/L	0.120	38	10570	10836	0
Mo	98	425.554	ug/L	4.102	0	27	2180929	1
Y	89		ug/L			411113	411986	2
Kr	83		ug/L			642	927	6
> In	115		ug/L			961280	936622	1
Ag	107	0.019	ug/L	0.001	7	29	235	8
Cd	111	0.124	ug/L	0.022	17	85	647	15
Cd	114	0.238	ug/L	0.003	1	29	2764	2
Sb	121	0.042	ug/L	0.001	1	475	1029	2
Sb	123	0.043	ug/L	0.006	14	362	786	8
Ba	135	0.048	ug/L	0.003	6	21	212	5
Ba	137	0.040	ug/L	0.002	5	28	306	4
> Tb	159		ug/L			1095087	1110691	1
Tl	205	0.038	ug/L	0.003	8	336	1798	7
Pb	208	0.030	ug/L	0.001	1	458	1931	1
Bi	209		ug/L			2703449	2461279	0
Th	232	0.195	ug/L	0.071	36	2412	11706	27
U	238	0.000	ug/L	0.000	79	41	57	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:40:05

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1785995	1
[Be	9	0.001	ug/L	0.001	114	15	18	16
C	13		ug/L			135652	246610	3
Cl	37		ug/L			4937799	14503251	4
> Sc	45		ug/L			1259345	1256932	0
V	51	0.009	ug/L	0.111	1267	9617	9825	28
V-1	51	0.673	ug/L	0.024	3	89	16552	3
Cr	52	20.437	ug/L	0.096	0	28547	456052	1
Cr	53	23.473	ug/L	0.456	1	178	53685	1
Mn	55	19.955	ug/L	0.334	1	554	567639	1
Co	59	19.592	ug/L	0.934	4	85	402422	4
> Ge	72		ug/L			658458	648701	2
Ni	60	20.647	ug/L	0.804	3	39	85761	2
Ni	62	23.727	ug/L	0.534	2	675	14465	1
Cu	63	20.789	ug/L	0.655	3	740	192660	0
Cu	65	20.610	ug/L	0.489	2	68	86095	1
Zn	66	20.065	ug/L	0.951	4	249	51601	2
Zn	67	22.067	ug/L	1.083	4	35	9430	2
Zn	68	18.665	ug/L	0.834	4	261	34758	1
As	75	19.900	ug/L	0.406	2	273	44460	0
As-1	75	19.777	ug/L	0.517	2	10384	54608	0
Se	82	-0.209	ug/L	0.043	20	-5	-55	16
Se	78	0.470	ug/L	0.455	96	10570	10710	1
Mo	98	444.632	ug/L	13.982	3	27	2230603	0
Y	89		ug/L			411113	409557	0
Kr	83		ug/L			642	934	4
> In	115		ug/L			961280	954366	0
Ag	107	21.121	ug/L	0.745	3	29	239537	3
Cd	111	20.047	ug/L	0.302	1	85	92923	1
Cd	114	19.914	ug/L	0.149	0	29	233398	0
Sb	121	0.037	ug/L	0.004	10	475	984	5
Sb	123	0.039	ug/L	0.007	16	362	759	8
Ba	135	0.047	ug/L	0.005	11	21	211	10
Ba	137	0.041	ug/L	0.004	10	28	317	9
> Tb	159		ug/L			1095087	1120147	0
Tl	205	0.026	ug/L	0.001	5	336	1340	3
Pb	208	0.029	ug/L	0.001	4	458	1888	2
Bi	209		ug/L			2703449	2467067	0
Th	232	0.042	ug/L	0.006	13	2412	4482	6
U	238	-0.000	ug/L	0.000	112	41	31	36

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:46:57

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1755141	1
Be	9	200.897	ug/L	2.495	1	15	923731	1
C	13		ug/L			135652	143205	0
Cl	37		ug/L			4937799	5396704	2
> Sc	45		ug/L			1259345	1221392	0
V	51	204.393	ug/L	4.163	2	9617	4918440	1
V-1	51	204.604	ug/L	4.149	2	89	4861789	1
Cr	52	201.630	ug/L	2.765	1	28547	4126378	0
Cr	53	202.253	ug/L	3.400	1	178	448163	1
Mn	55	203.897	ug/L	2.855	1	554	5631564	1
Co	59	203.165	ug/L	4.108	2	85	4054639	1
> Ge	72		ug/L			658458	616126	1
Ni	60	199.853	ug/L	3.459	1	39	788455	0
Ni	62	202.173	ug/L	2.439	1	675	112345	0
Cu	63	198.962	ug/L	0.479	0	740	1746281	0
Cu	65	200.974	ug/L	3.189	1	68	797056	0
Zn	66	194.071	ug/L	1.456	0	249	472397	0
Zn	67	194.039	ug/L	3.420	1	35	78560	1
Zn	68	194.724	ug/L	5.288	2	261	342307	1
As	75	201.261	ug/L	2.274	1	273	424885	0
As-1	75	198.679	ug/L	3.323	1	10384	433316	1
Se	82	202.985	ug/L	1.819	0	-5	46838	0
Se	78	194.064	ug/L	4.528	2	10570	128076	1
Mo	98	215.162	ug/L	2.006	0	27	1025812	1
Y	89		ug/L			411113	394238	2
Kr	83		ug/L			642	907	2
> In	115		ug/L			961280	933930	0
Ag	107	225.021	ug/L	2.809	1	29	2497252	1
Cd	111	200.242	ug/L	3.316	1	85	907474	0
Cd	114	215.779	ug/L	1.731	0	29	2474580	0
Sb	121	217.959	ug/L	2.615	1	475	2926429	0
Sb	123	221.421	ug/L	3.353	1	362	2250447	0
Ba	135	204.636	ug/L	1.756	0	21	821800	0
Ba	137	203.903	ug/L	3.525	1	28	1419382	1
> Tb	159		ug/L			1095087	1107940	0
Tl	205	197.484	ug/L	2.832	1	336	7561644	0
Pb	208	201.195	ug/L	1.797	0	458	9766971	0
Bi	209		ug/L			2703449	2440239	0
Th	232	200.138	ug/L	1.240	0	2412	9519002	0
U	238	198.544	ug/L	1.179	0	41	10194879	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 12:53:48

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1733708	1
[Be	9	286.467	ug/L	6.959	2	15	1300828	1
C	13		ug/L			135652	140093	1
Cl	37		ug/L			4937799	5233317	3
> Sc	45		ug/L			1259345	1207855	1
V	51	305.282	ug/L	5.245	1	9617	7259450	0
V-1	51	304.230	ug/L	5.423	1	89	7147984	0
Cr	52	302.848	ug/L	7.976	2	28547	6114070	1
Cr	53	299.147	ug/L	9.595	3	178	655243	1
Mn	55	296.840	ug/L	4.743	1	554	8106075	0
Co	59	297.534	ug/L	3.433	1	85	5871956	1
> Ge	72		ug/L			658458	605530	0
Ni	60	296.423	ug/L	3.442	1	39	1149375	0
Ni	62	300.203	ug/L	8.569	2	675	163647	2
Cu	63	309.846	ug/L	1.147	0	740	2672429	1
Cu	65	287.075	ug/L	3.142	1	68	1119087	1
Zn	66	282.529	ug/L	3.154	1	249	675853	1
Zn	67	281.546	ug/L	1.734	0	35	112028	1
Zn	68	275.690	ug/L	1.573	0	261	476276	0
As	75	291.008	ug/L	1.239	0	273	603697	0
As-1	75	289.854	ug/L	1.967	0	10384	616942	0
Se	82	284.581	ug/L	2.674	0	-5	64539	0
Se	78	281.053	ug/L	3.874	1	10570	177944	0
Mo	98	318.344	ug/L	6.934	2	27	1491451	1
Y	89		ug/L			411113	388634	2
Kr	83		ug/L			642	1050	1
> In	115		ug/L			961280	910600	0
Ag	107	321.184	ug/L	7.750	2	29	3475661	2
Cd	111	291.159	ug/L	3.395	1	85	1286629	1
Cd	114	313.181	ug/L	4.026	1	29	3501935	1
Sb	121	321.311	ug/L	1.326	0	475	4206454	0
Sb	123	323.536	ug/L	1.887	0	362	3206244	0
Ba	135	308.065	ug/L	4.906	1	21	1206268	1
Ba	137	335.880	ug/L	3.033	0	28	2279701	0
> Tb	159		ug/L			1095087	1100013	0
Tl	205	293.081	ug/L	3.785	1	336	11142365	1
Pb	208	296.734	ug/L	1.817	0	458	14301667	0
Bi	209		ug/L			2703449	2347468	0
Th	232	294.214	ug/L	2.783	0	2412	13892641	1
U	238	293.274	ug/L	2.731	0	41	14951808	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: B1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:00:40

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1780284	1
[Be	9	0.005	ug/L	0.002	45	15	38	28
C	13		ug/L			135652	145279	2
Cl	37		ug/L			4937799	5185995	2
> Sc	45		ug/L			1259345	1244588	0
V	51	0.003	ug/L	0.009	287	9617	9585	2
V-1	51	0.011	ug/L	0.003	28	89	360	20
Cr	52	-0.007	ug/L	0.028	433	28547	28079	2
Cr	53	0.020	ug/L	0.009	44	178	222	8
Mn	55	0.036	ug/L	0.008	22	554	1560	15
Co	59	0.014	ug/L	0.016	115	85	369	90
> Ge	72		ug/L			658458	655120	1
Ni	60	0.037	ug/L	0.022	60	39	194	48
Ni	62	0.292	ug/L	0.064	22	675	844	5
Cu	63	0.054	ug/L	0.021	39	740	1242	16
Cu	65	0.041	ug/L	0.026	64	68	240	46
Zn	66	1.333	ug/L	0.044	3	249	3696	1
Zn	67	1.190	ug/L	0.015	1	35	547	0
Zn	68	1.220	ug/L	0.042	3	261	2540	4
As	75	0.056	ug/L	0.031	55	273	398	18
As-1	75	-0.026	ug/L	0.079	299	10384	10270	0
Se	82	0.017	ug/L	0.014	79	-5	0	439
Se	78	-0.233	ug/L	0.338	145	10570	10364	0
Mo	98	0.083	ug/L	0.005	6	27	446	6
Y	89		ug/L			411113	402849	0
Kr	83		ug/L			642	668	2
> In	115		ug/L			961280	988637	0
Ag	107	0.030	ug/L	0.007	22	29	380	20
Cd	111	0.017	ug/L	0.012	70	85	172	34
Cd	114	0.010	ug/L	0.005	53	29	150	43
Sb	121	0.627	ug/L	0.126	20	475	9398	18
Sb	123	0.634	ug/L	0.129	20	362	7192	19
Ba	135	0.011	ug/L	0.005	40	21	70	28
Ba	137	0.013	ug/L	0.002	18	28	121	14
> Tb	159		ug/L			1095087	1106257	0
Tl	205	0.069	ug/L	0.028	41	336	2955	36
Pb	208	0.011	ug/L	0.004	33	458	973	18
Bi	209		ug/L			2703449	2730340	0
Th	232	0.657	ug/L	0.166	25	2412	33602	22
U	238	0.017	ug/L	0.002	10	41	896	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: B2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:06:41

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1802168	2
[Be	9	0.003	ug/L	0.000	10	15	31	3
C	13		ug/L			135652	145275	1
Cl	37		ug/L			4937799	5141659	3
> Sc	45		ug/L			1259345	1261919	3
V	51	-0.013	ug/L	0.015	112	9617	9294	1
V-1	51	0.003	ug/L	0.000	8	89	157	0
Cr	52	-0.040	ug/L	0.048	120	28547	27741	1
Cr	53	0.015	ug/L	0.005	35	178	213	6
Mn	55	0.014	ug/L	0.001	6	554	943	2
Co	59	0.000	ug/L	0.000	99	85	94	6
> Ge	72		ug/L			658458	658929	2
Ni	60	0.011	ug/L	0.005	47	39	88	26
Ni	62	-0.084	ug/L	0.074	87	675	626	8
Cu	63	0.000	ug/L	0.003	824	740	744	4
Cu	65	0.009	ug/L	0.002	17	68	107	5
Zn	66	0.160	ug/L	0.009	5	249	666	5
Zn	67	0.174	ug/L	0.020	11	35	110	8
Zn	68	0.153	ug/L	0.019	12	261	548	4
As	75	0.006	ug/L	0.006	90	273	287	2
As-1	75	-0.118	ug/L	0.164	138	10384	10116	1
Se	82	-0.033	ug/L	0.033	98	-5	-13	59
Se	78	-0.443	ug/L	0.568	128	10570	10284	1
Mo	98	0.011	ug/L	0.002	17	27	83	9
Y	89		ug/L			411113	412550	2
Kr	83		ug/L			642	662	3
> In	115		ug/L			961280	986749	1
Ag	107	0.008	ug/L	0.001	16	29	124	12
Cd	111	0.004	ug/L	0.002	41	85	106	7
Cd	114	0.003	ug/L	0.000	15	29	61	8
Sb	121	0.116	ug/L	0.032	27	475	2129	21
Sb	123	0.115	ug/L	0.025	22	362	1608	16
Ba	135	0.004	ug/L	0.001	17	21	36	6
Ba	137	0.005	ug/L	0.001	18	28	63	9
> Tb	159		ug/L			1095087	1101037	1
Tl	205	0.052	ug/L	0.031	58	336	2319	49
Pb	208	0.006	ug/L	0.001	16	458	735	5
Bi	209		ug/L			2703449	2780859	0
Th	232	0.114	ug/L	0.038	33	2412	7823	22
U	238	0.002	ug/L	0.000	23	41	139	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: B3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:12:13

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1799263	0
[Be	9	0.002	ug/L	0.001	58	15	23	19
C	13		ug/L			135652	153054	1
Cl	37		ug/L			4937799	5089872	0
> Sc	45		ug/L			1259345	1243856	2
V	51	0.001	ug/L	0.015	1614	9617	9516	1
V-1	51	0.001	ug/L	0.000	25	89	118	6
Cr	52	0.000	ug/L	0.041	11228	28547	28191	0
Cr	53	0.002	ug/L	0.011	677	178	180	15
Mn	55	0.008	ug/L	0.001	13	554	775	3
[Co	59	0.000	ug/L	0.001	236	85	89	12
> Ge	72		ug/L			658458	653324	2
Ni	60	0.015	ug/L	0.005	33	39	102	21
Ni	62	-0.237	ug/L	0.044	18	675	532	6
Cu	63	0.036	ug/L	0.006	16	740	1065	3
Cu	65	0.050	ug/L	0.003	5	68	279	4
Zn	66	0.278	ug/L	0.009	3	249	963	4
Zn	67	0.223	ug/L	0.014	6	35	130	2
Zn	68	0.274	ug/L	0.022	8	261	770	5
As	75	0.010	ug/L	0.011	111	273	293	8
As-1	75	-0.045	ug/L	0.089	198	10384	10199	0
Se	82	-0.015	ug/L	0.075	514	-5	-8	208
Se	78	-0.203	ug/L	0.329	162	10570	10354	0
[Mo	98	0.006	ug/L	0.003	39	27	59	20
Y	89		ug/L			411113	407889	1
Kr	83		ug/L			642	639	7
> In	115		ug/L			961280	991751	0
Ag	107	0.005	ug/L	0.001	16	29	93	10
Cd	111	0.000	ug/L	0.001	512	85	90	8
Cd	114	0.002	ug/L	0.000	21	29	56	10
Sb	121	0.039	ug/L	0.015	38	475	1039	20
Sb	123	0.039	ug/L	0.016	40	362	791	21
Ba	135	0.010	ug/L	0.003	30	21	65	20
Ba	137	0.010	ug/L	0.001	7	28	101	5
> Tb	159		ug/L			1095087	1106019	0
Tl	205	0.033	ug/L	0.024	71	336	1611	56
Pb	208	0.002	ug/L	0.001	41	458	559	7
Bi	209		ug/L			2703449	2734128	0
Th	232	0.022	ug/L	0.015	65	2412	3495	19
[U	238	0.000	ug/L	0.000	52	41	57	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:16:22

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1825222	0
[Be	9	50.885	ug/L	1.261	2	15	243332	2
C	13		ug/L			135652	139779	1
Cl	37		ug/L			4937799	5212384	1
> Sc	45		ug/L			1259345	1282916	2
V	51	47.225	ug/L	0.350	0	9617	1201158	1
V-1	51	48.003	ug/L	0.498	1	89	1198135	1
Cr	52	47.292	ug/L	1.416	2	28547	1038619	2
Cr	53	49.962	ug/L	1.031	2	178	116397	0
Mn	55	47.560	ug/L	0.427	0	554	1380062	1
Co	59	47.934	ug/L	1.094	2	85	1004788	2
> Ge	72		ug/L			658458	662128	1
Ni	60	49.448	ug/L	0.212	0	39	209699	1
Ni	62	48.895	ug/L	0.652	1	675	29717	2
Cu	63	50.009	ug/L	0.513	1	740	472264	2
Cu	65	48.586	ug/L	1.138	2	68	207141	2
Zn	66	49.854	ug/L	1.466	2	249	130561	1
Zn	67	49.954	ug/L	0.856	1	35	21760	1
Zn	68	49.796	ug/L	0.344	0	261	94286	1
As	75	48.899	ug/L	0.094	0	273	111151	1
As-1	75	48.793	ug/L	0.173	0	10384	122244	1
Se	82	49.042	ug/L	0.738	1	-5	12157	1
Se	78	48.640	ug/L	0.487	1	10570	42462	0
Mo	98	48.190	ug/L	0.516	1	27	246951	2
Y	89		ug/L			411113	411067	0
Kr	83		ug/L			642	671	5
> In	115		ug/L			961280	965881	1
Ag	107	51.026	ug/L	1.082	2	29	585566	1
Cd	111	51.151	ug/L	0.493	0	85	239812	1
Cd	114	50.194	ug/L	0.613	1	29	595295	1
Sb	121	50.435	ug/L	0.755	1	475	700664	1
Sb	123	50.352	ug/L	0.598	1	362	529534	0
Ba	135	49.955	ug/L	0.269	0	21	207495	1
Ba	137	49.911	ug/L	0.258	0	28	359335	1
> Tb	159		ug/L			1095087	1134868	1
Tl	205	46.081	ug/L	0.216	0	336	1807669	0
Pb	208	47.733	ug/L	0.464	0	458	2373847	1
Bi	209		ug/L			2703449	2705203	1
Th	232	49.618	ug/L	0.399	0	2412	2419080	0
U	238	50.100	ug/L	0.773	1	41	2634878	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:23:15

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1765270	1792279	0
Be	9	0.003	ug/L	0.000	19	15	27	9
C	13		ug/L			135652	143559	2
Cl	37		ug/L			4937799	5090633	2
> Sc	45		ug/L			1259345	1254679	2
V	51	-0.012	ug/L	0.010	82	9617	9272	0
V-1	51	0.003	ug/L	0.000	13	89	152	7
Cr	52	-0.052	ug/L	0.035	66	28547	27349	0
Cr	53	-0.002	ug/L	0.000	25	178	174	2
Mn	55	0.005	ug/L	0.000	10	554	685	3
Co	59	0.000	ug/L	0.001	144	85	92	12
> Ge	72		ug/L			658458	644023	0
Ni	60	-0.000	ug/L	0.003	2753	39	38	32
Ni	62	-0.309	ug/L	0.038	12	675	482	5
Cu	63	-0.017	ug/L	0.004	22	740	571	6
Cu	65	0.001	ug/L	0.001	160	68	70	7
Zn	66	0.020	ug/L	0.026	134	249	293	23
Zn	67	0.034	ug/L	0.009	26	35	49	7
Zn	68	0.025	ug/L	0.020	82	261	301	12
As	75	0.018	ug/L	0.010	54	273	306	6
As-1	75	-0.015	ug/L	0.051	336	10384	10122	0
Se	82	-0.013	ug/L	0.070	546	-5	-8	208
Se	78	-0.093	ug/L	0.194	208	10570	10279	0
Mo	98	0.020	ug/L	0.006	27	27	125	21
Y	89		ug/L			411113	404988	1
Kr	83		ug/L			642	655	2
> In	115		ug/L			961280	965950	0
Ag	107	0.005	ug/L	0.001	12	29	90	7
Cd	111	0.002	ug/L	0.002	93	85	98	11
Cd	114	0.001	ug/L	0.001	48	29	44	16
Sb	121	0.134	ug/L	0.040	29	475	2336	23
Sb	123	0.138	ug/L	0.040	28	362	1818	22
Ba	135	-0.001	ug/L	0.002	272	21	17	52
Ba	137	0.002	ug/L	0.001	40	28	40	11
> Tb	159		ug/L			1095087	1091849	0
Tl	205	0.021	ug/L	0.015	71	336	1111	49
Pb	208	0.002	ug/L	0.001	42	458	544	6
Bi	209		ug/L			2703449	2721455	1
Th	232	0.398	ug/L	0.136	34	2412	21028	29
U	238	0.005	ug/L	0.001	23	41	276	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:31:53

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L				1766731	1
[Be	9		ug/L				22	10
C	13		ug/L				143235	1
Cl	37		ug/L				4954439	2
> Sc	45		ug/L				1218098	1
V	51		ug/L				9170	0
V-1	51		ug/L				105	12
Cr	52		ug/L				27160	0
Cr	53		ug/L				170	0
Mn	55		ug/L				674	3
Co	59		ug/L				88	4
> Ge	72		ug/L				652831	1
Ni	60		ug/L				35	17
Ni	62		ug/L				471	3
Cu	63		ug/L				514	6
Cu	65		ug/L				55	9
Zn	66		ug/L				255	7
Zn	67		ug/L				38	13
Zn	68		ug/L				241	5
As	75		ug/L				310	4
As-1	75		ug/L				9967	1
Se	82		ug/L				4	244
Se	78		ug/L				10138	1
Mo	98		ug/L				31	18
Y	89		ug/L				399449	1
Kr	83		ug/L				635	6
> In	115		ug/L				965468	0
Ag	107		ug/L				54	8
Cd	111		ug/L				102	4
Cd	114		ug/L				36	13
Sb	121		ug/L				768	18
Sb	123		ug/L				575	25
Ba	135		ug/L				23	16
Ba	137		ug/L				42	10
> Tb	159		ug/L				1098939	0
Tl	205		ug/L				811	65
Pb	208		ug/L				507	5
Bi	209		ug/L				2742152	1
Th	232		ug/L				5672	23
U	238		ug/L				50	27

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:36:02

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1867260	1
[Be	9	49.300	ug/L	0.876	1	22	241140	0
C	13		ug/L			143235	143176	1
Cl	37		ug/L			4954439	5233159	1
> Sc	45		ug/L			1218098	1286556	1
V	51	46.999	ug/L	1.006	2	9170	1198531	0
V-1	51	47.329	ug/L	1.010	2	105	1184521	0
Cr	52	47.864	ug/L	0.982	2	27160	1053398	0
Cr	53	49.027	ug/L	0.880	1	170	114553	0
Mn	55	47.585	ug/L	1.387	2	674	1384506	1
Co	59	47.357	ug/L	0.642	1	88	995582	1
> Ge	72		ug/L			652831	661702	1
Ni	60	48.998	ug/L	0.924	1	35	207642	1
Ni	62	48.800	ug/L	0.838	1	471	29437	1
Cu	63	48.448	ug/L	0.541	1	514	456992	0
Cu	65	49.148	ug/L	0.503	1	55	209381	0
Zn	66	49.253	ug/L	1.547	3	255	128942	2
Zn	67	49.693	ug/L	0.718	1	38	21637	1
Zn	68	50.049	ug/L	1.235	2	241	94663	1
As	75	49.058	ug/L	0.823	1	310	111467	0
As-1	75	48.644	ug/L	0.744	1	9967	121479	0
Se	82	50.093	ug/L	1.266	2	4	12418	1
Se	78	48.591	ug/L	0.812	1	10138	42055	0
Mo	98	49.215	ug/L	0.298	0	31	252031	1
Y	89		ug/L			399449	416907	1
Kr	83		ug/L			635	680	7
> In	115		ug/L			965468	988704	1
Ag	107	49.355	ug/L	1.007	2	54	579816	1
Cd	111	50.013	ug/L	0.634	1	102	240018	0
Cd	114	49.133	ug/L	0.605	1	36	596475	0
Sb	121	49.146	ug/L	0.767	1	768	699163	0
Sb	123	49.326	ug/L	1.063	2	575	531175	1
Ba	135	48.072	ug/L	0.816	1	23	204368	0
Ba	137	48.123	ug/L	0.293	0	42	354660	1
> Tb	159		ug/L			1098939	1135668	0
Tl	205	46.219	ug/L	0.432	0	811	1814848	0
Pb	208	47.275	ug/L	0.420	0	507	2352734	0
Bi	209		ug/L			2742152	2697554	0
Th	232	49.590	ug/L	0.631	1	5672	2422812	0
U	238	50.040	ug/L	0.608	1	50	2633696	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 13:42:55

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1808504	2
[Be	9	0.001	ug/L	0.001	96	22	28	15
C	13		ug/L			143235	148106	1
Cl	37		ug/L			4954439	5091337	1
> Sc	45		ug/L			1218098	1256431	1
V	51	-0.017	ug/L	0.009	53	9170	9031	2
V-1	51	0.002	ug/L	0.001	30	105	151	9
Cr	52	-0.068	ug/L	0.032	46	27160	26586	2
Cr	53	-0.005	ug/L	0.001	28	170	164	1
Mn	55	0.001	ug/L	0.001	104	674	736	7
Co	59	0.001	ug/L	0.001	111	88	101	9
> Ge	72		ug/L			652831	647534	1
Ni	60	0.001	ug/L	0.002	275	35	38	26
Ni	62	-0.084	ug/L	0.061	72	471	418	7
Cu	63	-0.005	ug/L	0.003	63	514	465	4
Cu	65	0.003	ug/L	0.001	21	55	68	4
Zn	66	-0.002	ug/L	0.009	549	255	248	7
Zn	67	0.009	ug/L	0.021	230	38	42	22
Zn	68	0.019	ug/L	0.008	42	241	275	4
As	75	-0.002	ug/L	0.014	733	310	303	8
As-1	75	0.104	ug/L	0.048	45	9967	10118	0
Se	82	-0.042	ug/L	0.013	30	4	-5	53
Se	78	0.347	ug/L	0.160	46	10138	10277	0
Mo	98	0.016	ug/L	0.003	21	31	110	17
Y	89		ug/L			399449	411156	0
Kr	83		ug/L			635	646	4
> In	115		ug/L			965468	973529	1
Ag	107	0.004	ug/L	0.004	87	54	105	41
Cd	111	-0.001	ug/L	0.003	285	102	98	12
Cd	114	0.002	ug/L	0.002	101	36	60	38
Sb	121	0.091	ug/L	0.031	33	768	2045	20
Sb	123	0.092	ug/L	0.027	29	575	1550	18
Ba	135	0.001	ug/L	0.001	195	23	26	17
Ba	137	0.002	ug/L	0.001	32	42	55	6
> Tb	159		ug/L			1098939	1095219	0
Tl	205	0.001	ug/L	0.011	1734	811	829	47
Pb	208	0.002	ug/L	0.000	30	507	581	3
Bi	209		ug/L			2742152	2725556	0
Th	232	0.286	ug/L	0.111	38	5672	19071	26
U	238	0.005	ug/L	0.001	15	50	293	11

Sample Information

Sample Date/Time: Tuesday, November 27, 2012 13:42:55

Method File: C:\NexIONData\Method\200.8nomin.mth

Mass Calibration File: C:\NexIONData\MassCal\Default.tun

Conditions File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Calibration

Analyte	Mass	r Corr Coef	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	0.9999	0.003	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	0.9998	0.020	0.20	10	20	50	100
V-1	51	0.9999	0.019	0.20	10	20	50	100
Cr	52	0.9999	0.017	0.50	10	20	50	100
Cr	53	0.9998	0.002	0.50	10	20	50	100
Mn	55	1.0000	0.023	0.50	10	20	50	100
Co	59	1.0000	0.016	0.20	10	20	50	100
Ge	72							
Ni	60	0.9999	0.006	0.50	10	20	50	100
Ni	62	1.0000	0.001	0.50	10	20	50	100
Cu	63	1.0000	0.014	0.50	10	20	50	100
Cu	65	0.9999	0.006	0.50	10	20	50	100
Zn	66	1.0000	0.004	4.00	10	20	50	100
Zn	67	0.9999	0.001	4.00	10	20	50	100
Zn	68	0.9999	0.003	4.00	10	20	50	100
As	75	1.0000	0.003	0.20	10	20	50	100
As-1	75	1.0000	0.003	0.20	10	20	50	100
Se	82	0.9999	0.000	0.50	10	20	50	100
Se	78	1.0000	0.001	0.50	10	20	50	100
Mo	98	1.0000	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.012	0.20	10	20	50	100
Cd	111	0.9999	0.005	0.10	10	20	50	100
Cd	114	1.0000	0.012	0.10	10	20	50	100
Sb	121	1.0000	0.014	0.20	10	20	50	100
Sb	123	1.0000	0.011	0.20	10	20	50	100
Ba	135	1.0000	0.004	0.50	10	20	50	100
Ba	137	1.0000	0.007	0.50	10	20	50	100
Tb	159							
Tl	205	0.9997	0.035	0.20	10	20	50	100
Pb	208	0.9999	0.044	0.10	10	20	50	100
Bi	209							
Th	232	0.9998	0.043	0.20	10	20	50	100
U	238	0.9999	0.046	0.20	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **LOW CHECK**

Sample Dil Factor:

Comments:

Sample Date/Time: **Tuesday, November 27, 2012 14:04:59**

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1802276	1
Be	9	0.203	ug/L	0.005	2	22	980	1
C	13		ug/L			143235	147582	1
Cl	37		ug/L			4954439	4959680	3
> Sc	45		ug/L			1218098	1267477	1
V	51	0.200	ug/L	0.016	8	9170	14526	1
V-1	51	0.204	ug/L	0.005	2	105	5145	0
Cr	52	0.480	ug/L	0.041	8	27160	38380	0
Cr	53	0.505	ug/L	0.023	4	170	1336	3
Mn	55	0.483	ug/L	0.008	1	674	14534	0
Co	59	0.199	ug/L	0.007	3	88	4211	1
> Ge	72		ug/L			652831	650782	1
Ni	60	0.521	ug/L	0.013	2	35	2208	3
Ni	62	0.494	ug/L	0.043	8	471	757	3
Cu	63	0.519	ug/L	0.021	4	514	5320	2
Cu	65	0.535	ug/L	0.015	2	55	2297	2
Zn	66	4.579	ug/L	0.087	1	255	12022	3
Zn	67	4.244	ug/L	0.237	5	38	1851	4
Zn	68	4.397	ug/L	0.108	2	241	8398	1
As	75	0.196	ug/L	0.015	7	310	745	2
As-1	75	0.290	ug/L	0.093	31	9967	10587	0
Se	82	0.512	ug/L	0.025	4	4	129	4
Se	78	0.848	ug/L	0.290	34	10138	10649	0
Mo	98	0.183	ug/L	0.008	4	31	952	4
Y	89		ug/L			399449	401839	1
Kr	83		ug/L			635	648	1
> In	115		ug/L			965468	963650	0
Ag	107	0.215	ug/L	0.004	2	54	2520	1
Cd	111	0.107	ug/L	0.008	7	102	605	5
Cd	114	0.107	ug/L	0.004	3	36	1301	4
Sb	121	0.192	ug/L	0.011	5	768	3433	4
Sb	123	0.190	ug/L	0.015	7	575	2563	6
Ba	135	0.501	ug/L	0.009	1	23	2097	1
Ba	137	0.486	ug/L	0.008	1	42	3530	1
> Tb	159		ug/L			1098939	1100287	0
Tl	205	0.188	ug/L	0.011	5	811	7955	4
Pb	208	0.102	ug/L	0.002	2	507	5418	1
Bi	209		ug/L			2742152	2732544	0
Th	232	0.115	ug/L	0.024	21	5672	11124	10
U	238	0.184	ug/L	0.003	1	50	9422	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:09:06

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1841735	1
[Be	9	0.002	ug/L	0.001	67	22	31	17
C	13		ug/L			143235	153503	2
Cl	37		ug/L			4954439	5121372	2
> Sc	45		ug/L			1218098	1296345	1
V	51	0.007	ug/L	0.005	73	9170	9927	1
V-1	51	0.003	ug/L	0.001	16	105	197	8
Cr	52	0.013	ug/L	0.012	91	27160	29194	1
Cr	53	0.002	ug/L	0.008	323	170	187	11
Mn	55	0.304	ug/L	0.011	3	674	9630	4
Co	59	0.001	ug/L	0.001	86	88	115	14
> Ge	72		ug/L			652831	677498	1
Ni	60	0.007	ug/L	0.002	27	35	68	12
Ni	62	-0.098	ug/L	0.038	38	471	429	6
Cu	63	0.094	ug/L	0.002	1	514	1439	1
Cu	65	-0.102	ug/L	0.009	8	55	501	6
Zn	66	0.947	ug/L	0.030	3	255	2797	1
Zn	67	0.910	ug/L	0.029	3	38	445	3
Zn	68	0.958	ug/L	0.057	5	241	2099	4
As	75	-0.009	ug/L	0.009	103	310	301	7
As-1	75	-0.007	ug/L	0.060	824	9967	10326	0
Se	82	-0.045	ug/L	0.031	68	4	-6	116
Se	78	-0.020	ug/L	0.206	1038	10138	10507	0
Mo	98	0.008	ug/L	0.004	42	31	76	25
Y	89		ug/L			399449	422433	1
Kr	83		ug/L			635	675	2
> In	115		ug/L			965468	1004476	1
Ag	107	-0.001	ug/L	0.001	57	54	44	17
Cd	111	-0.001	ug/L	0.002	165	102	101	10
Cd	114	0.002	ug/L	0.001	36	36	57	11
Sb	121	-0.035	ug/L	0.004	11	768	289	19
Sb	123	-0.034	ug/L	0.005	14	575	227	24
Ba	135	0.022	ug/L	0.002	10	23	119	9
Ba	137	0.020	ug/L	0.002	11	42	197	8
> Tb	159		ug/L			1098939	1134970	1
Tl	205	-0.000	ug/L	0.014	3450	811	815	63
Pb	208	0.004	ug/L	0.000	9	507	742	1
Bi	209		ug/L			2742152	2776107	1
Th	232	-0.002	ug/L	0.023	1329	5672	5760	17
U	238	0.000	ug/L	0.001	1312	50	54	60

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:13:14

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1860182	1
[Be	9	24.740	ug/L	0.659	2	22	120553	1
C	13		ug/L			143235	159429	1
Cl	37		ug/L			4954439	5093921	1
> Sc	45		ug/L			1218098	1308215	1
V	51	23.905	ug/L	0.501	2	9170	624795	1
V-1	51	24.411	ug/L	0.385	1	105	621422	1
Cr	52	23.944	ug/L	0.385	1	27160	550448	0
Cr	53	25.681	ug/L	0.345	1	170	61122	2
Mn	55	24.513	ug/L	0.530	2	674	725698	1
[Co	59	24.422	ug/L	0.591	2	88	522054	1
> Ge	72		ug/L			652831	655549	1
Ni	60	26.647	ug/L	0.359	1	35	111879	0
Ni	62	26.293	ug/L	0.484	1	471	15929	1
Cu	63	26.743	ug/L	0.711	2	514	250085	1
Cu	65	27.369	ug/L	0.345	1	55	115535	1
Zn	66	84.574	ug/L	2.188	2	255	219123	0
Zn	67	77.338	ug/L	2.106	2	38	33332	1
Zn	68	81.069	ug/L	1.321	1	241	151761	0
As	75	24.949	ug/L	0.610	2	310	56304	0
As-1	75	25.039	ug/L	0.280	1	9967	66804	0
Se	82	79.711	ug/L	2.173	2	4	19571	0
Se	78	77.996	ug/L	1.035	1	10138	60717	1
[Mo	98	0.009	ug/L	0.004	37	31	79	24
Y	89		ug/L			399449	409613	0
Kr	83		ug/L			635	692	5
> In	115		ug/L			965468	991619	0
Ag	107	26.590	ug/L	0.375	1	54	313376	1
Cd	111	24.854	ug/L	0.206	0	102	119698	0
Cd	114	24.496	ug/L	0.192	0	36	298312	0
Sb	121	-0.038	ug/L	0.004	10	768	250	23
Sb	123	-0.038	ug/L	0.003	7	575	177	18
Ba	135	24.891	ug/L	0.221	0	23	106157	0
[Ba	137	24.715	ug/L	0.212	0	42	182714	0
> Tb	159		ug/L			1098939	1117254	0
Tl	205	24.742	ug/L	0.180	0	811	956136	0
Pb	208	25.505	ug/L	0.245	0	507	1248994	0
Bi	209		ug/L			2742152	2757547	0
Th	232	23.360	ug/L	0.200	0	5672	1125887	0
[U	238	23.281	ug/L	0.208	0	50	1205573	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:17:21

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1881597	2
[Be	9	23.759	ug/L	0.842	3	22	117086	2
C	13		ug/L			143235	155735	2
Cl	37		ug/L			4954439	5050662	2
> Sc	45		ug/L			1218098	1308674	1
V	51	23.743	ug/L	0.329	1	9170	620839	0
V-1	51	24.033	ug/L	0.514	2	105	611901	0
Cr	52	24.159	ug/L	0.263	1	27160	555356	0
Cr	53	25.167	ug/L	0.879	3	170	59896	2
Mn	55	24.769	ug/L	0.554	2	674	733540	1
Co	59	24.081	ug/L	0.567	2	88	514952	0
> Ge	72		ug/L			652831	659033	1
Ni	60	26.573	ug/L	0.399	1	35	112166	0
Ni	62	26.052	ug/L	0.691	2	471	15871	1
Cu	63	26.573	ug/L	0.678	2	514	249829	1
Cu	65	26.464	ug/L	0.439	1	55	112307	1
Zn	66	78.117	ug/L	0.037	0	255	203555	1
Zn	67	74.082	ug/L	1.788	2	38	32109	2
Zn	68	77.169	ug/L	0.111	0	241	145271	1
As	75	23.656	ug/L	0.389	1	310	53694	0
As-1	75	23.993	ug/L	0.689	2	9967	64774	1
Se	82	74.428	ug/L	1.640	2	4	18374	1
Se	78	73.720	ug/L	1.442	1	10138	58252	0
Mo	98	0.007	ug/L	0.002	22	31	65	10
Y	89		ug/L			399449	422648	2
Kr	83		ug/L			635	686	6
> In	115		ug/L			965468	995384	1
Ag	107	26.603	ug/L	0.398	1	54	314711	1
Cd	111	24.219	ug/L	0.292	1	102	117083	1
Cd	114	23.708	ug/L	0.431	1	36	289778	0
Sb	121	-0.041	ug/L	0.004	9	768	202	28
Sb	123	-0.040	ug/L	0.003	7	575	161	20
Ba	135	24.749	ug/L	0.382	1	23	105943	0
Ba	137	24.398	ug/L	0.391	1	42	181037	0
> Tb	159		ug/L			1098939	1129052	1
Tl	205	24.086	ug/L	0.243	1	811	940610	0
Pb	208	24.861	ug/L	0.264	1	507	1230260	0
Bi	209		ug/L			2742152	2761858	0
Th	232	23.158	ug/L	0.263	1	5672	1127925	0
U	238	22.909	ug/L	0.431	1	50	1198638	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:21:29

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1867158	1
[Be	9	0.005	ug/L	0.001	18	22	48	8
C	13		ug/L			143235	162577	2
Cl	37		ug/L			4954439	5399762	1
> Sc	45		ug/L			1218098	1337854	1
V	51	1.401	ug/L	0.021	1	9170	46936	0
V-1	51	1.486	ug/L	0.029	1	105	38779	1
Cr	52	0.450	ug/L	0.007	1	27160	39850	1
Cr	53	0.704	ug/L	0.021	2	170	1894	1
Mn	55	164.424	ug/L	3.726	2	674	4973934	1
Co	59	0.202	ug/L	0.003	1	88	4508	0
> Ge	72		ug/L			652831	672065	2
Ni	60	1.338	ug/L	0.039	2	35	5792	2
Ni	62	1.246	ug/L	0.064	5	471	1235	1
Cu	63	2.428	ug/L	0.059	2	514	23755	1
Cu	65	2.220	ug/L	0.080	3	55	9657	1
Zn	66	28.064	ug/L	0.423	1	255	74726	0
Zn	67	24.955	ug/L	0.771	3	38	11052	1
Zn	68	27.397	ug/L	0.465	1	241	52745	1
As	75	0.553	ug/L	0.028	5	310	1590	2
As-1	75	0.516	ug/L	0.090	17	9967	11457	0
Se	82	-0.014	ug/L	0.082	566	4	0	2528
Se	78	-0.067	ug/L	0.294	441	10138	10390	0
Mo	98	1.056	ug/L	0.061	5	31	5519	3
Y	89		ug/L			399449	423562	0
Kr	83		ug/L			635	701	2
> In	115		ug/L			965468	1021741	1
Ag	107	0.005	ug/L	0.001	23	54	119	13
Cd	111	0.103	ug/L	0.003	3	102	617	1
Cd	114	0.100	ug/L	0.004	3	36	1295	3
Sb	121	0.802	ug/L	0.009	1	768	12596	0
Sb	123	0.800	ug/L	0.021	2	575	9501	1
Ba	135	4.755	ug/L	0.035	0	23	20916	1
Ba	137	4.756	ug/L	0.056	1	42	36265	1
> Tb	159		ug/L			1098939	1166539	0
Tl	205	-0.002	ug/L	0.005	251	811	782	25
Pb	208	0.497	ug/L	0.008	1	507	25915	1
Bi	209		ug/L			2742152	2738644	1
Th	232	0.344	ug/L	0.001	0	5672	23228	0
U	238	0.015	ug/L	0.000	1	50	886	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:25:36

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1879662	0
[Be	9	0.024	ug/L	0.002	9	22	144	7
C	13		ug/L			143235	161289	1
Cl	37		ug/L			4954439	5535051	1
> Sc	45		ug/L			1218098	1343849	0
V	51	1.419	ug/L	0.018	1	9170	47623	0
V-1	51	1.496	ug/L	0.018	1	105	39241	0
Cr	52	0.515	ug/L	0.042	8	27160	41476	2
Cr	53	0.746	ug/L	0.044	5	170	2006	4
Mn	55	163.307	ug/L	0.822	0	674	4963088	1
[Co	59	0.137	ug/L	0.001	1	88	3103	1
> Ge	72		ug/L			652831	668790	0
Ni	60	1.320	ug/L	0.019	1	35	5688	0
Ni	62	1.214	ug/L	0.057	4	471	1211	3
Cu	63	3.606	ug/L	0.132	3	514	34868	3
Cu	65	3.436	ug/L	0.053	1	55	14846	1
Zn	66	28.941	ug/L	0.701	2	255	76685	1
Zn	67	26.089	ug/L	0.452	1	38	11502	2
Zn	68	28.229	ug/L	0.714	2	241	54075	1
As	75	0.553	ug/L	0.012	2	310	1583	2
As-1	75	0.557	ug/L	0.061	10	9967	11500	0
Se	82	0.006	ug/L	0.016	251	4	6	62
Se	78	0.075	ug/L	0.241	322	10138	10434	0
Mo	98	1.093	ug/L	0.019	1	31	5686	1
Y	89		ug/L			399449	428783	2
Kr	83		ug/L			635	678	2
> In	115		ug/L			965468	1020105	0
Ag	107	0.003	ug/L	0.000	9	54	96	4
Cd	111	0.102	ug/L	0.006	5	102	615	4
Cd	114	0.103	ug/L	0.005	4	36	1325	4
Sb	121	0.816	ug/L	0.005	0	768	12783	0
Sb	123	0.815	ug/L	0.013	1	575	9660	1
Ba	135	4.881	ug/L	0.026	0	23	21434	0
Ba	137	4.862	ug/L	0.021	0	42	37016	0
> Tb	159		ug/L			1098939	1169814	1
Tl	205	-0.010	ug/L	0.001	10	811	459	9
Pb	208	0.501	ug/L	0.004	0	507	26235	0
Bi	209		ug/L			2742152	2779039	0
Th	232	0.005	ug/L	0.007	145	5672	6288	6
U	238	0.011	ug/L	0.000	1	50	653	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 ASPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:29:44

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1894386	2
[Be	9	23.602	ug/L	0.767	3	22	117109	2
C	13		ug/L			143235	159264	1
Cl	37		ug/L			4954439	5541440	1
> Sc	45		ug/L			1218098	1366599	1
V	51	24.582	ug/L	0.633	2	9170	670837	1
V-1	51	25.022	ug/L	0.633	2	105	665307	1
Cr	52	23.752	ug/L	0.449	1	27160	570710	1
Cr	53	25.232	ug/L	0.430	1	170	62721	0
Mn	55	184.293	ug/L	4.290	2	674	5694595	1
Co	59	23.588	ug/L	0.453	1	88	526796	1
> Ge	72		ug/L			652831	668853	1
Ni	60	27.849	ug/L	0.250	0	35	119325	2
Ni	62	27.027	ug/L	1.255	4	471	16688	2
Cu	63	27.695	ug/L	0.813	2	514	264298	3
Cu	65	27.769	ug/L	0.941	3	55	119577	2
Zn	66	103.574	ug/L	0.424	0	255	273816	1
Zn	67	97.333	ug/L	2.761	2	38	42794	1
Zn	68	101.963	ug/L	1.612	1	241	194703	1
As	75	25.039	ug/L	0.413	1	310	57662	0
As-1	75	24.816	ug/L	0.588	2	9967	67643	1
Se	82	75.464	ug/L	2.111	2	4	18907	2
Se	78	72.795	ug/L	1.563	2	10138	58507	0
Mo	98	1.100	ug/L	0.026	2	31	5726	0
Y	89		ug/L			399449	431774	1
Kr	83		ug/L			635	683	4
> In	115		ug/L			965468	1015727	1
Ag	107	25.982	ug/L	0.256	0	54	313672	2
Cd	111	24.201	ug/L	0.316	1	102	119380	0
Cd	114	23.695	ug/L	0.359	1	36	295542	0
Sb	121	0.807	ug/L	0.013	1	768	12597	1
Sb	123	0.821	ug/L	0.012	1	575	9675	1
Ba	135	29.679	ug/L	0.202	0	23	129649	0
Ba	137	29.586	ug/L	0.031	0	42	224035	1
> Tb	159		ug/L			1098939	1159668	1
Tl	205	23.850	ug/L	0.052	0	811	956738	0
Pb	208	24.880	ug/L	0.315	1	507	1264602	0
Bi	209		ug/L			2742152	2735539	0
Th	232	22.701	ug/L	0.271	1	5672	1135739	0
U	238	23.087	ug/L	0.299	1	50	1240770	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 EDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:33:51

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1942620	0
[Be	9	0.001	ug/L	0.001	89	22	32	20
C	13		ug/L			143235	166319	2
Cl	37		ug/L			4954439	5621483	3
> Sc	45		ug/L			1218098	1337900	1
V	51	0.317	ug/L	0.026	8	9170	18415	3
V-1	51	0.398	ug/L	0.015	3	105	10483	2
Cr	52	0.176	ug/L	0.049	27	27160	33745	2
Cr	53	0.449	ug/L	0.027	5	170	1276	4
Mn	55	142.248	ug/L	0.833	0	674	4303876	1
Co	59	0.092	ug/L	0.003	3	88	2118	3
> Ge	72		ug/L			652831	671231	0
Ni	60	1.131	ug/L	0.010	0	35	4896	1
Ni	62	0.949	ug/L	0.083	8	471	1055	4
Cu	63	1.509	ug/L	0.030	2	514	14951	1
Cu	65	1.288	ug/L	0.022	1	55	5622	1
Zn	66	16.458	ug/L	0.407	2	255	43880	1
Zn	67	14.778	ug/L	0.149	1	38	6556	1
Zn	68	15.975	ug/L	0.265	1	241	30823	1
As	75	0.250	ug/L	0.010	4	310	894	1
As-1	75	0.173	ug/L	0.058	33	9967	10650	0
Se	82	0.007	ug/L	0.023	344	4	6	90
Se	78	-0.229	ug/L	0.189	82	10138	10271	0
Mo	98	0.980	ug/L	0.037	3	31	5121	3
Y	89		ug/L			399449	432789	0
Kr	83		ug/L			635	674	4
> In	115		ug/L			965468	1023098	0
Ag	107	0.003	ug/L	0.000	5	54	92	1
Cd	111	0.034	ug/L	0.002	4	102	278	3
Cd	114	0.038	ug/L	0.003	7	36	512	6
Sb	121	0.676	ug/L	0.005	0	768	10756	0
Sb	123	0.674	ug/L	0.007	1	575	8111	0
Ba	135	1.848	ug/L	0.008	0	23	8153	0
Ba	137	1.830	ug/L	0.011	0	42	13996	0
> Tb	159		ug/L			1098939	1172128	0
Tl	205	-0.009	ug/L	0.001	11	811	481	9
Pb	208	0.092	ug/L	0.003	2	507	5257	2
Bi	209		ug/L			2742152	2777370	0
Th	232	0.088	ug/L	0.005	5	5672	10495	2
U	238	0.009	ug/L	0.001	7	50	540	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:39:03

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1892710	1
[Be	9	0.017	ug/L	0.001	8	22	107	6
C	13		ug/L			143235	166473	1
Cl	37		ug/L			4954439	5374191	3
> Sc	45		ug/L			1218098	1322336	1
V	51	0.362	ug/L	0.008	2	9170	19364	0
V-1	51	0.435	ug/L	0.011	2	105	11295	2
Cr	52	0.277	ug/L	0.009	3	27160	35575	0
Cr	53	0.523	ug/L	0.016	3	170	1439	3
Mn	55	146.264	ug/L	3.292	2	674	4373382	1
Co	59	0.100	ug/L	0.002	1	88	2255	1
> Ge	72		ug/L			652831	666422	1
Ni	60	1.194	ug/L	0.019	1	35	5132	0
Ni	62	0.931	ug/L	0.098	10	471	1036	4
Cu	63	2.413	ug/L	0.105	4	514	23418	3
Cu	65	2.123	ug/L	0.024	1	55	9165	2
Zn	66	17.251	ug/L	0.093	0	255	45659	1
Zn	67	15.218	ug/L	0.177	1	38	6702	2
Zn	68	16.730	ug/L	0.194	1	241	32040	2
As	75	0.273	ug/L	0.025	9	310	939	6
As-1	75	0.248	ug/L	0.074	29	9967	10744	0
Se	82	0.035	ug/L	0.016	45	4	13	30
Se	78	-0.006	ug/L	0.252	4019	10138	10344	0
Mo	98	1.041	ug/L	0.015	1	31	5398	0
Y	89		ug/L			399449	418555	1
Kr	83		ug/L			635	681	4
> In	115		ug/L			965468	1009137	1
Ag	107	0.000	ug/L	0.001	296	54	60	20
Cd	111	0.034	ug/L	0.003	8	102	276	4
Cd	114	0.038	ug/L	0.002	5	36	508	5
Sb	121	0.700	ug/L	0.006	0	768	10963	0
Sb	123	0.687	ug/L	0.017	2	575	8140	0
Ba	135	1.952	ug/L	0.034	1	23	8491	0
Ba	137	1.946	ug/L	0.041	2	42	14677	0
> Tb	159		ug/L			1098939	1145763	1
Tl	205	-0.010	ug/L	0.001	9	811	436	7
Pb	208	0.097	ug/L	0.001	1	507	5397	1
Bi	209		ug/L			2742152	2731647	1
Th	232	-0.048	ug/L	0.006	12	5672	3555	7
U	238	0.006	ug/L	0.000	6	50	372	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 ESPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:43:10

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1934829	2
[Be	9	23.621	ug/L	0.975	4	22	119676	1
C	13		ug/L			143235	163399	1
Cl	37		ug/L			4954439	5549236	0
> Sc	45		ug/L			1218098	1339465	2
V	51	24.048	ug/L	0.804	3	9170	643186	0
V-1	51	24.275	ug/L	0.608	2	105	632466	0
Cr	52	24.718	ug/L	1.049	4	27160	580559	1
Cr	53	25.522	ug/L	0.573	2	170	62174	2
Mn	55	170.746	ug/L	6.733	3	674	5168644	1
Co	59	24.029	ug/L	0.517	2	88	525860	0
> Ge	72		ug/L			652831	667084	1
Ni	60	26.915	ug/L	0.155	0	35	115017	1
Ni	62	26.565	ug/L	0.594	2	471	16372	0
Cu	63	28.601	ug/L	0.634	2	514	272162	1
Cu	65	29.190	ug/L	0.381	1	55	125390	1
Zn	66	94.168	ug/L	1.332	1	255	248300	0
Zn	67	87.160	ug/L	0.293	0	38	38233	1
Zn	68	91.220	ug/L	2.955	3	241	173727	1
As	75	24.401	ug/L	0.148	0	310	56057	0
As-1	75	24.007	ug/L	0.525	2	9967	65597	0
Se	82	74.809	ug/L	0.712	0	4	18696	1
Se	78	71.520	ug/L	1.277	1	10138	57515	0
Mo	98	1.057	ug/L	0.041	3	31	5485	2
Y	89		ug/L			399449	422191	2
Kr	83		ug/L			635	661	3
> In	115		ug/L			965468	1013806	0
Ag	107	25.912	ug/L	0.596	2	54	312219	2
Cd	111	24.286	ug/L	0.257	1	102	119580	0
Cd	114	23.682	ug/L	0.216	0	36	294853	0
Sb	121	0.691	ug/L	0.008	1	768	10883	0
Sb	123	0.716	ug/L	0.016	2	575	8506	1
Ba	135	27.255	ug/L	0.239	0	23	118843	0
Ba	137	26.899	ug/L	0.185	0	42	203307	0
> Tb	159		ug/L			1098939	1168794	0
Tl	205	23.959	ug/L	0.086	0	811	968662	0
Pb	208	24.487	ug/L	0.190	0	507	1254458	0
Bi	209		ug/L			2742152	2743464	0
Th	232	23.004	ug/L	0.155	0	5672	1159940	0
U	238	22.967	ug/L	0.109	0	50	1244126	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:47:19

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1823544	3
[Be	9	51.356	ug/L	0.965	1	22	245270	1
C	13		ug/L			143235	146739	2
Cl	37		ug/L			4954439	5428232	1
> Sc	45		ug/L			1218098	1262192	2
V	51	47.485	ug/L	1.360	2	9170	1187717	0
V-1	51	48.194	ug/L	1.399	2	105	1183176	1
Cr	52	47.513	ug/L	1.116	2	27160	1026027	1
Cr	53	49.949	ug/L	1.044	2	170	114488	0
Mn	55	48.459	ug/L	1.201	2	674	1383239	0
Co	59	47.511	ug/L	1.149	2	88	979718	0
> Ge	72		ug/L			652831	644959	1
Ni	60	50.256	ug/L	1.134	2	35	207562	1
Ni	62	49.854	ug/L	0.627	1	471	29301	0
Cu	63	50.157	ug/L	1.168	2	514	461101	1
Cu	65	50.126	ug/L	0.378	0	55	208148	0
Zn	66	50.829	ug/L	0.775	1	255	129708	1
Zn	67	51.364	ug/L	1.779	3	38	21794	2
Zn	68	50.358	ug/L	0.823	1	241	92846	0
As	75	50.022	ug/L	0.759	1	310	110777	0
As-1	75	49.849	ug/L	0.793	1	9967	121099	0
Se	82	51.020	ug/L	1.018	1	4	12328	0
Se	78	50.384	ug/L	1.025	2	10138	42134	0
Mo	98	49.214	ug/L	0.503	1	31	245654	2
Y	89		ug/L			399449	401967	0
Kr	83		ug/L			635	680	3
> In	115		ug/L			965468	978928	0
Ag	107	51.728	ug/L	1.021	1	54	601755	1
Cd	111	50.631	ug/L	0.877	1	102	240604	1
Cd	114	49.898	ug/L	0.187	0	36	599854	0
Sb	121	49.661	ug/L	0.086	0	768	699618	0
Sb	123	50.085	ug/L	0.491	0	575	534103	0
Ba	135	49.201	ug/L	0.672	1	23	207126	0
Ba	137	48.996	ug/L	0.479	0	42	357535	0
> Tb	159		ug/L			1098939	1134044	1
Tl	205	46.843	ug/L	0.436	0	811	1836714	1
Pb	208	48.086	ug/L	0.337	0	507	2389656	0
Bi	209		ug/L			2742152	2719010	0
Th	232	50.356	ug/L	0.626	1	5672	2456547	0
U	238	50.987	ug/L	0.368	0	50	2679712	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 14:54:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1824789	0
[Be	9	0.000	ug/L	0.002	773	22	25	48
C	13		ug/L			143235	147268	2
Cl	37		ug/L			4954439	5036578	1
> Sc	45		ug/L			1218098	1245210	2
V	51	-0.005	ug/L	0.024	473	9170	9244	4
V-1	51	0.006	ug/L	0.002	35	105	248	18
Cr	52	-0.034	ug/L	0.075	219	27160	27037	3
Cr	53	0.002	ug/L	0.006	326	170	178	7
Mn	55	0.003	ug/L	0.007	199	674	782	22
[Co	59	0.001	ug/L	0.001	121	88	109	20
> Ge	72		ug/L			652831	643288	2
Ni	60	-0.001	ug/L	0.000	65	35	32	7
Ni	62	-0.144	ug/L	0.016	11	471	381	5
Cu	63	-0.004	ug/L	0.003	69	514	471	5
Cu	65	0.005	ug/L	0.001	22	55	77	6
Zn	66	-0.002	ug/L	0.005	233	255	246	2
Zn	67	0.004	ug/L	0.008	222	38	39	10
Zn	68	0.011	ug/L	0.010	95	241	258	9
As	75	0.011	ug/L	0.028	244	310	331	20
As-1	75	0.048	ug/L	0.085	176	9967	9925	0
Se	82	-0.024	ug/L	0.082	341	4	-1	1806
Se	78	0.154	ug/L	0.350	227	10138	10083	0
[Mo	98	0.022	ug/L	0.010	47	31	140	36
Y	89		ug/L			399449	388665	2
Kr	83		ug/L			635	664	3
> In	115		ug/L			965468	961937	0
Ag	107	0.008	ug/L	0.009	120	54	144	76
Cd	111	0.002	ug/L	0.007	450	102	110	32
Cd	114	0.004	ug/L	0.006	147	36	87	86
Sb	121	0.091	ug/L	0.035	38	768	2031	24
Sb	123	0.097	ug/L	0.036	36	575	1593	23
Ba	135	0.003	ug/L	0.004	102	23	37	40
Ba	137	0.003	ug/L	0.003	132	42	60	41
> Tb	159		ug/L			1098939	1094851	0
Tl	205	-0.010	ug/L	0.006	59	811	424	53
Pb	208	0.003	ug/L	0.003	96	507	643	20
Bi	209		ug/L			2742152	2741572	0
Th	232	0.339	ug/L	0.150	44	5672	21551	32
[U	238	0.007	ug/L	0.003	51	50	384	43

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:06:16

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1872020	2
Be	9	0.009	ug/L	0.001	10	22	66	4
C	13		ug/L			143235	158425	1
Cl	37		ug/L			4954439	5157984	1
> Sc	45		ug/L			1218098	1294238	3
V	51	0.013	ug/L	0.015	117	9170	10064	1
V-1	51	0.016	ug/L	0.001	6	105	525	1
Cr	52	0.029	ug/L	0.061	208	27160	29468	2
Cr	53	0.042	ug/L	0.015	35	170	279	9
Mn	55	0.573	ug/L	0.032	5	674	17462	2
Co	59	0.011	ug/L	0.000	2	88	335	1
> Ge	72		ug/L			652831	653309	1
Ni	60	0.042	ug/L	0.002	3	35	212	1
Ni	62	-0.108	ug/L	0.070	64	471	408	9
Cu	63	0.108	ug/L	0.008	6	514	1518	3
Cu	65	0.127	ug/L	0.006	5	55	588	4
Zn	66	0.878	ug/L	0.033	3	255	2519	2
Zn	67	0.796	ug/L	0.027	3	38	380	4
Zn	68	0.906	ug/L	0.017	1	241	1928	1
As	75	0.008	ug/L	0.012	147	310	328	6
As-1	75	0.086	ug/L	0.074	85	9967	10169	0
Se	82	-0.026	ug/L	0.060	227	4	-2	712
Se	78	0.300	ug/L	0.268	89	10138	10338	0
Mo	98	0.006	ug/L	0.001	18	31	61	9
Y	89		ug/L			399449	409916	1
Kr	83		ug/L			635	678	1
> In	115		ug/L			965468	982896	0
Ag	107	0.013	ug/L	0.001	8	54	205	6
Cd	111	0.007	ug/L	0.003	40	102	139	9
Cd	114	0.009	ug/L	0.001	9	36	146	7
Sb	121	-0.017	ug/L	0.005	28	768	543	13
Sb	123	-0.017	ug/L	0.007	41	575	408	18
Ba	135	0.047	ug/L	0.002	4	23	222	4
Ba	137	0.053	ug/L	0.002	4	42	428	3
> Tb	159		ug/L			1098939	1125223	1
Tl	205	0.003	ug/L	0.003	89	811	696	18
Pb	208	0.017	ug/L	0.001	2	507	1357	2
Bi	209		ug/L			2742152	2763871	0
Th	232	0.087	ug/L	0.027	31	5672	10027	14
U	238	0.010	ug/L	0.000	3	50	565	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:10:24

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1877146	2
[Be	9	0.055	ug/L	0.002	4	22	293	4
C	13		ug/L			143235	170704	1
Cl	37		ug/L			4954439	5438814	1
> Sc	45		ug/L			1218098	1370876	1
V	51	16.836	ug/L	0.284	1	9170	464143	0
V-1	51	17.087	ug/L	0.262	1	105	455794	0
Cr	52	4.049	ug/L	0.074	1	27160	122964	2
Cr	53	4.438	ug/L	0.087	1	170	11225	2
Mn	55	486.956	ug/L	6.154	1	674	15093849	1
[Co	59	0.640	ug/L	0.007	1	88	14442	2
> Ge	72		ug/L			652831	662887	0
Ni	60	2.029	ug/L	0.037	1	35	8646	1
Ni	62	1.730	ug/L	0.083	4	471	1506	3
Cu	63	10.751	ug/L	0.164	1	514	102001	1
Cu	65	10.671	ug/L	0.109	1	55	45590	1
Zn	66	86.646	ug/L	1.489	1	255	227067	1
Zn	67	80.962	ug/L	0.823	1	38	35292	0
Zn	68	84.357	ug/L	1.434	1	241	159698	1
As	75	3.745	ug/L	0.075	1	310	8815	1
As-1	75	3.553	ug/L	0.102	2	9967	18271	0
Se	82	0.143	ug/L	0.069	48	4	40	42
Se	78	-0.358	ug/L	0.218	60	10138	10059	1
[Mo	98	2.597	ug/L	0.009	0	31	13353	1
Y	89		ug/L			399449	465618	1
Kr	83		ug/L			635	675	2
> In	115		ug/L			965468	991430	0
Ag	107	0.021	ug/L	0.000	1	54	306	1
Cd	111	0.572	ug/L	0.011	1	102	2858	1
Cd	114	0.541	ug/L	0.011	2	36	6630	2
Sb	121	1.735	ug/L	0.010	0	768	25510	0
Sb	123	1.733	ug/L	0.013	0	575	19288	0
Ba	135	37.814	ug/L	0.453	1	23	161229	1
Ba	137	37.850	ug/L	0.355	0	42	279737	0
> Tb	159		ug/L			1098939	1171277	0
Tl	205	0.002	ug/L	0.002	74	811	960	6
Pb	208	5.316	ug/L	0.052	0	507	273342	0
Bi	209		ug/L			2742152	2691364	0
Th	232	0.112	ug/L	0.021	18	5672	11671	8
[U	238	0.051	ug/L	0.001	1	50	2802	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:14:31

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1892415	1
[Be	9	0.015	ug/L	0.003	17	22	98	14
C	13		ug/L			143235	159063	0
Cl	37		ug/L			4954439	5074194	3
> Sc	45		ug/L			1218098	1337388	0
V	51	0.540	ug/L	0.008	1	9170	24268	0
V-1	51	0.583	ug/L	0.003	0	105	15276	0
Cr	52	0.521	ug/L	0.044	8	27160	41405	2
Cr	53	0.666	ug/L	0.018	2	170	1803	2
Mn	55	62.099	ug/L	0.831	1	674	1878554	1
Co	59	0.137	ug/L	0.004	2	88	3093	2
> Ge	72		ug/L			652831	675793	1
Ni	60	0.614	ug/L	0.001	0	35	2691	1
Ni	62	0.133	ug/L	0.028	21	471	568	4
Cu	63	3.874	ug/L	0.069	1	514	37806	0
Cu	65	3.790	ug/L	0.082	2	55	16541	0
Zn	66	174.706	ug/L	0.252	0	255	466498	1
Zn	67	154.103	ug/L	4.632	3	38	68438	2
Zn	68	164.790	ug/L	3.513	2	241	317882	3
As	75	0.626	ug/L	0.012	1	310	1769	1
As-1	75	0.584	ug/L	0.041	7	9967	11682	0
Se	82	0.005	ug/L	0.065	1353	4	5	278
Se	78	-0.117	ug/L	0.135	115	10138	10416	0
Mo	98	0.492	ug/L	0.015	2	31	2603	2
Y	89		ug/L			399449	426330	0
Kr	83		ug/L			635	660	4
> In	115		ug/L			965468	1026981	0
Ag	107	0.001	ug/L	0.001	65	54	70	12
Cd	111	0.514	ug/L	0.011	2	102	2671	1
Cd	114	0.512	ug/L	0.005	1	36	6491	0
Sb	121	0.968	ug/L	0.011	1	768	15108	0
Sb	123	0.975	ug/L	0.013	1	575	11505	1
Ba	135	7.824	ug/L	0.043	0	23	34577	0
Ba	137	7.790	ug/L	0.097	1	42	59675	1
> Tb	159		ug/L			1098939	1166375	0
Tl	205	-0.012	ug/L	0.001	4	811	395	4
Pb	208	0.390	ug/L	0.001	0	507	20479	0
Bi	209		ug/L			2742152	2783546	0
Th	232	-0.076	ug/L	0.005	7	5672	2197	12
U	238	0.011	ug/L	0.000	0	50	630	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:18:39

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1894134	1
[Be	9	0.021	ug/L	0.003	15	22	126	12
C	13		ug/L			143235	160086	2
Cl	37		ug/L			4954439	6092318	4
> Sc	45		ug/L			1218098	1313972	3
V	51	1.031	ug/L	0.044	4	9170	36504	2
V-1	51	1.299	ug/L	0.040	3	105	33312	2
Cr	52	0.416	ug/L	0.031	7	27160	38393	2
Cr	53	1.315	ug/L	0.025	1	170	3317	3
Mn	55	421.300	ug/L	11.615	2	674	12510720	0
Co	59	0.174	ug/L	0.010	5	88	3818	3
> Ge	72		ug/L			652831	642444	1
Ni	60	0.665	ug/L	0.028	4	35	2768	2
Ni	62	0.203	ug/L	0.015	7	471	580	2
Cu	63	3.028	ug/L	0.136	4	514	28192	3
Cu	65	2.204	ug/L	0.053	2	55	9170	2
Zn	66	35.641	ug/L	0.645	1	255	90664	1
Zn	67	32.548	ug/L	1.085	3	38	13770	2
Zn	68	34.766	ug/L	0.458	1	241	63923	0
As	75	0.505	ug/L	0.015	2	310	1415	1
As-1	75	0.584	ug/L	0.072	12	9967	11105	0
Se	82	0.033	ug/L	0.045	139	4	12	90
Se	78	0.418	ug/L	0.198	47	10138	10241	0
Mo	98	0.455	ug/L	0.004	0	31	2293	1
Y	89		ug/L			399449	409540	2
Kr	83		ug/L			635	698	3
> In	115		ug/L			965468	967432	1
Ag	107	-0.001	ug/L	0.001	76	54	45	16
Cd	111	0.144	ug/L	0.005	3	102	777	2
Cd	114	0.144	ug/L	0.002	1	36	1744	2
Sb	121	0.889	ug/L	0.010	1	768	13138	0
Sb	123	0.901	ug/L	0.017	1	575	10062	1
Ba	135	6.699	ug/L	0.141	2	23	27890	2
Ba	137	6.654	ug/L	0.050	0	42	48024	1
> Tb	159		ug/L			1098939	1126114	0
Tl	205	-0.007	ug/L	0.001	16	811	549	7
Pb	208	0.146	ug/L	0.002	1	507	7739	1
Bi	209		ug/L			2742152	2557490	0
Th	232	-0.081	ug/L	0.005	6	5672	1879	12
U	238	0.012	ug/L	0.001	6	50	656	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:22:46

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1891273	0
[Be	9	0.001	ug/L	0.001	73	22	29	12
C	13		ug/L			143235	173063	1
Cl	37		ug/L			4954439	5326295	0
> Sc	45		ug/L			1218098	1313969	1
V	51	0.545	ug/L	0.014	2	9170	23969	1
V-1	51	0.646	ug/L	0.009	1	105	16626	0
Cr	52	0.304	ug/L	0.049	16	27160	35948	2
Cr	53	0.643	ug/L	0.037	5	170	1713	3
Mn	55	113.744	ug/L	3.235	2	674	3378947	1
Co	59	0.065	ug/L	0.001	2	88	1485	2
> Ge	72		ug/L			652831	653615	1
Ni	60	0.459	ug/L	0.011	2	35	1955	1
Ni	62	0.017	ug/L	0.008	50	471	481	0
Cu	63	1.781	ug/L	0.033	1	514	17089	0
Cu	65	1.616	ug/L	0.016	0	55	6852	0
Zn	66	4.720	ug/L	0.091	1	255	12434	0
Zn	67	4.495	ug/L	0.045	1	38	1968	2
Zn	68	4.976	ug/L	0.137	2	241	9514	1
As	75	0.324	ug/L	0.018	5	310	1036	2
As-1	75	0.305	ug/L	0.051	16	9967	10669	0
Se	82	0.056	ug/L	0.064	115	4	18	85
Se	78	0.072	ug/L	0.153	212	10138	10196	0
Mo	98	2.583	ug/L	0.009	0	31	13093	1
Y	89		ug/L			399449	412695	0
Kr	83		ug/L			635	696	3
> In	115		ug/L			965468	1002612	0
Ag	107	-0.002	ug/L	0.000	14	54	34	8
Cd	111	0.016	ug/L	0.002	12	102	185	5
Cd	114	0.018	ug/L	0.000	1	36	260	1
Sb	121	0.741	ug/L	0.010	1	768	11477	1
Sb	123	0.738	ug/L	0.016	2	575	8653	1
Ba	135	1.541	ug/L	0.028	1	23	6668	1
Ba	137	1.523	ug/L	0.015	0	42	11425	0
Tb	159		ug/L			1098939	1146634	0
Tl	205	-0.011	ug/L	0.001	10	811	408	10
Pb	208	0.111	ug/L	0.000	0	507	6096	0
Bi	209		ug/L			2742152	2699232	0
Th	232	-0.094	ug/L	0.004	3	5672	1279	13
U	238	0.005	ug/L	0.000	4	50	292	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:26:53

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1957359	1
[Be	9	0.000	ug/L	0.001	222	22	26	10
C	13		ug/L			143235	164552	2
Cl	37		ug/L			4954439	5222649	0
> Sc	45		ug/L			1218098	1308102	1
V	51	0.336	ug/L	0.011	3	9170	18491	0
V-1	51	0.383	ug/L	0.007	1	105	9865	0
Cr	52	0.310	ug/L	0.015	4	27160	35915	0
Cr	53	0.471	ug/L	0.009	1	170	1300	2
Mn	55	56.727	ug/L	0.706	1	674	1678372	0
Co	59	0.109	ug/L	0.002	1	88	2429	2
> Ge	72		ug/L			652831	657067	0
Ni	60	0.563	ug/L	0.014	2	35	2403	2
Ni	62	0.180	ug/L	0.016	8	471	580	1
Cu	63	2.225	ug/L	0.010	0	514	21332	0
Cu	65	2.268	ug/L	0.055	2	55	9648	2
Zn	66	167.089	ug/L	1.680	1	255	433805	1
Zn	67	151.388	ug/L	3.655	2	38	65377	1
Zn	68	161.469	ug/L	1.588	0	241	302786	0
As	75	0.497	ug/L	0.017	3	310	1430	2
As-1	75	0.470	ug/L	0.072	15	9967	11099	0
Se	82	-0.022	ug/L	0.035	160	4	0	1025
Se	78	-0.032	ug/L	0.259	813	10138	10183	1
Mo	98	0.449	ug/L	0.024	5	31	2314	4
Y	89		ug/L			399449	415090	1
Kr	83		ug/L			635	694	2
> In	115		ug/L			965468	1006953	0
Ag	107	-0.000	ug/L	0.000	468	54	55	8
Cd	111	0.469	ug/L	0.009	1	102	2398	1
Cd	114	0.469	ug/L	0.008	1	36	5835	1
Sb	121	0.939	ug/L	0.008	0	768	14388	0
Sb	123	0.945	ug/L	0.019	1	575	10959	1
Ba	135	7.480	ug/L	0.007	0	23	32410	0
Ba	137	7.403	ug/L	0.046	0	42	55609	0
> Tb	159		ug/L			1098939	1161020	0
Tl	205	-0.013	ug/L	0.001	7	811	355	11
Pb	208	0.161	ug/L	0.003	1	507	8704	0
Bi	209		ug/L			2742152	2777829	0
Th	232	-0.099	ug/L	0.003	2	5672	1062	13
U	238	0.007	ug/L	0.000	5	50	455	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS17 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:32:05

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1916289	1
[Be	9	0.018	ug/L	0.002	11	22	115	9
C	13		ug/L			143235	167840	2
Cl	37		ug/L			4954439	6347190	5
> Sc	45		ug/L			1218098	1344631	0
V	51	0.353	ug/L	0.026	7	9170	19450	2
V-1	51	0.703	ug/L	0.015	2	105	18516	2
Cr	52	0.232	ug/L	0.035	15	27160	35180	1
Cr	53	1.430	ug/L	0.070	4	170	3676	5
Mn	55	401.847	ug/L	5.011	1	674	12219094	2
[Co	59	0.156	ug/L	0.002	1	88	3519	2
> Ge	72		ug/L			652831	649703	0
Ni	60	0.689	ug/L	0.011	1	35	2901	0
Ni	62	0.196	ug/L	0.058	29	471	582	5
Cu	63	2.392	ug/L	0.045	1	514	22644	1
Cu	65	1.637	ug/L	0.041	2	55	6902	3
Zn	66	31.601	ug/L	0.197	0	255	81327	0
Zn	67	28.990	ug/L	0.331	1	38	12410	1
Zn	68	30.839	ug/L	0.397	1	241	57374	1
As	75	0.377	ug/L	0.016	4	310	1146	2
As-1	75	0.287	ug/L	0.039	13	9967	10565	0
Se	82	0.085	ug/L	0.032	37	4	25	31
Se	78	-0.135	ug/L	0.130	96	10138	10003	0
[Mo	98	0.433	ug/L	0.008	1	31	2208	1
Y	89		ug/L			399449	404860	4
Kr	83		ug/L			635	698	1
> In	115		ug/L			965468	980566	1
Ag	107	-0.002	ug/L	0.000	7	54	26	7
Cd	111	0.114	ug/L	0.005	4	102	648	4
Cd	114	0.111	ug/L	0.003	2	36	1373	1
Sb	121	0.850	ug/L	0.028	3	768	12762	1
Sb	123	0.863	ug/L	0.019	2	575	9795	2
Ba	135	5.407	ug/L	0.023	0	23	22822	1
Ba	137	5.356	ug/L	0.049	0	42	39190	1
> Tb	159		ug/L			1098939	1151222	0
Tl	205	-0.008	ug/L	0.001	15	811	545	9
Pb	208	0.103	ug/L	0.002	1	507	5711	1
Bi	209		ug/L			2742152	2606430	0
Th	232	-0.096	ug/L	0.002	1	5672	1178	7
[U	238	0.011	ug/L	0.001	5	50	642	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VT58 D SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:36:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1889185	1
[Be	9	0.010	ug/L	0.002	23	22	71	15
C	13		ug/L			143235	152287	2
Cl	37		ug/L			4954439	5361830	1
> Sc	45		ug/L			1218098	1293315	1
V	51	9.118	ug/L	0.131	1	9170	241610	0
V-1	51	9.246	ug/L	0.109	1	105	232721	0
Cr	52	0.873	ug/L	0.106	12	27160	47604	3
Cr	53	1.005	ug/L	0.032	3	170	2536	1
Mn	55	21.913	ug/L	0.289	1	674	641455	1
[Co	59	0.434	ug/L	0.022	4	88	9259	3
> Ge	72		ug/L			652831	666915	1
Ni	60	0.162	ug/L	0.008	4	35	730	5
Ni	62	0.118	ug/L	0.041	34	471	552	5
Cu	63	149.585	ug/L	5.546	3	514	1420420	1
Cu	65	154.255	ug/L	4.289	2	55	662079	1
Zn	66	56.780	ug/L	0.799	1	255	149768	0
Zn	67	53.965	ug/L	0.114	0	38	23680	1
Zn	68	55.324	ug/L	2.209	3	241	105410	2
As	75	0.885	ug/L	0.015	1	310	2338	0
As-1	75	0.769	ug/L	0.152	19	9967	11954	1
Se	82	2.131	ug/L	0.032	1	4	536	0
Se	78	1.707	ug/L	0.519	30	10138	11478	1
[Mo	98	4.707	ug/L	0.116	2	31	24314	0
Y	89		ug/L			399449	422725	1
Kr	83		ug/L			635	673	3
> In	115		ug/L			965468	1075958	0
Ag	107	0.586	ug/L	0.021	3	54	7550	3
Cd	111	0.119	ug/L	0.006	4	102	735	4
Cd	114	0.117	ug/L	0.001	0	36	1584	0
Sb	121	-0.045	ug/L	0.002	4	768	161	18
Sb	123	-0.044	ug/L	0.001	2	575	127	11
Ba	135	26.398	ug/L	0.151	0	23	122163	0
Ba	137	26.299	ug/L	0.406	1	42	210961	1
> Tb	159		ug/L			1098939	1151681	0
Tl	205	0.208	ug/L	0.004	1	811	9109	1
Pb	208	18.737	ug/L	0.139	0	507	945984	0
Bi	209		ug/L			2742152	2879146	0
Th	232	-0.067	ug/L	0.003	5	5672	2645	5
[U	238	0.042	ug/L	0.001	3	50	2317	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VT58 E SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:40:29

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1885103	2
[Be	9	0.008	ug/L	0.002	28	22	65	15
C	13		ug/L			143235	155772	2
Cl	37		ug/L			4954439	5306870	1
> Sc	45		ug/L			1218098	1294195	2
V	51	9.187	ug/L	0.283	3	9170	243436	0
V-1	51	9.317	ug/L	0.288	3	105	234568	0
Cr	52	1.013	ug/L	0.079	7	27160	50669	3
Cr	53	1.154	ug/L	0.030	2	170	2889	0
Mn	55	22.141	ug/L	1.041	4	674	648124	2
Co	59	0.126	ug/L	0.002	1	88	2759	3
> Ge	72		ug/L			652831	655241	2
Ni	60	0.144	ug/L	0.010	6	35	638	7
Ni	62	0.133	ug/L	0.038	28	471	550	1
Cu	63	109.153	ug/L	1.777	1	514	1018748	0
Cu	65	111.688	ug/L	4.072	3	55	470891	1
Zn	66	24.900	ug/L	0.828	3	255	64655	1
Zn	67	26.274	ug/L	0.631	2	38	11344	1
Zn	68	26.126	ug/L	0.792	3	241	49038	0
As	75	0.817	ug/L	0.023	2	310	2144	2
As-1	75	0.786	ug/L	0.115	14	9967	11783	0
Se	82	2.017	ug/L	0.045	2	4	499	4
Se	78	1.937	ug/L	0.353	18	10138	11427	0
Mo	98	5.528	ug/L	0.243	4	31	28043	2
Y	89		ug/L			399449	419359	1
Kr	83		ug/L			635	696	0
> In	115		ug/L			965468	1058980	0
Ag	107	0.641	ug/L	0.022	3	54	8130	3
Cd	111	0.028	ug/L	0.000	1	102	259	1
Cd	114	0.028	ug/L	0.002	7	36	398	6
Sb	121	-0.047	ug/L	0.001	2	768	121	15
Sb	123	-0.046	ug/L	0.002	4	575	106	21
Ba	135	31.528	ug/L	0.046	0	23	143598	0
Ba	137	31.095	ug/L	0.086	0	42	245486	0
> Tb	159		ug/L			1098939	1158193	0
Tl	205	0.199	ug/L	0.002	1	811	8821	0
Pb	208	19.645	ug/L	0.091	0	507	997406	0
Bi	209		ug/L			2742152	2856003	1
Th	232	-0.053	ug/L	0.003	5	5672	3330	4
U	238	0.026	ug/L	0.000	1	50	1436	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VT58 F SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:44:36

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1884285	2
[Be	9	0.014	ug/L	0.001	7	22	94	6
C	13		ug/L			143235	154741	3
Cl	37		ug/L			4954439	5204530	1
> Sc	45		ug/L			1218098	1316256	1
V	51	10.956	ug/L	0.175	1	9170	293484	1
V-1	51	11.127	ug/L	0.176	1	105	285044	2
Cr	52	1.436	ug/L	0.062	4	27160	60783	0
Cr	53	1.670	ug/L	0.023	1	170	4169	0
Mn	55	24.958	ug/L	0.241	0	674	743586	2
Co	59	0.440	ug/L	0.010	2	88	9551	0
> Ge	72		ug/L			652831	654732	1
Ni	60	0.180	ug/L	0.011	6	35	791	6
Ni	62	0.054	ug/L	0.057	105	471	503	6
Cu	63	83.755	ug/L	1.345	1	514	781276	0
Cu	65	82.761	ug/L	1.135	1	55	348811	0
Zn	66	41.873	ug/L	1.220	2	255	108497	2
Zn	67	40.340	ug/L	1.251	3	38	17384	2
Zn	68	42.799	ug/L	0.724	1	241	80138	0
As	75	0.745	ug/L	0.041	5	310	1980	3
As-1	75	0.690	ug/L	0.106	15	9967	11557	0
Se	82	1.924	ug/L	0.046	2	4	476	2
Se	78	1.737	ug/L	0.238	13	10138	11290	0
Mo	98	3.699	ug/L	0.058	1	31	18768	0
Y	89		ug/L			399449	420389	0
Kr	83		ug/L			635	679	3
> In	115		ug/L			965468	1057087	1
Ag	107	0.567	ug/L	0.004	0	54	7181	1
Cd	111	0.035	ug/L	0.003	7	102	292	3
Cd	114	0.034	ug/L	0.002	5	36	483	3
Sb	121	-0.048	ug/L	0.002	4	768	104	30
Sb	123	-0.048	ug/L	0.001	1	575	78	11
Ba	135	35.011	ug/L	0.707	2	23	159142	0
Ba	137	34.579	ug/L	0.194	0	42	272485	0
> Tb	159		ug/L			1098939	1145362	1
Tl	205	0.288	ug/L	0.007	2	811	12240	1
Pb	208	12.283	ug/L	0.085	0	507	616897	0
Bi	209		ug/L			2742152	2851001	1
Th	232	-0.024	ug/L	0.003	13	5672	4724	2
U	238	0.045	ug/L	0.001	2	50	2428	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **CCV5**

Sample Dil Factor:

Comments:

Sample Date/Time: **Tuesday, November 27, 2012 15:48:46**

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1862298	0
[Be	9	50.829	ug/L	0.611	1	22	247991	0
C	13		ug/L			143235	146393	1
Cl	37		ug/L			4954439	5375900	0
> Sc	45		ug/L			1218098	1276748	0
V	51	46.479	ug/L	1.071	2	9170	1176566	1
V-1	51	47.224	ug/L	1.082	2	105	1173117	2
Cr	52	46.755	ug/L	0.405	0	27160	1022013	0
Cr	53	49.320	ug/L	0.781	1	170	114384	1
Mn	55	47.049	ug/L	1.298	2	674	1358815	2
Co	59	47.021	ug/L	0.588	1	88	981088	1
> Ge	72		ug/L			652831	638465	1
Ni	60	50.490	ug/L	1.052	2	35	206491	3
Ni	62	48.951	ug/L	0.735	1	471	28489	1
Cu	63	50.608	ug/L	0.768	1	514	460592	1
Cu	65	49.847	ug/L	0.286	0	55	204920	1
Zn	66	50.656	ug/L	0.365	0	255	127966	1
Zn	67	51.163	ug/L	1.298	2	38	21500	3
Zn	68	49.884	ug/L	0.432	0	241	91063	1
As	75	50.393	ug/L	0.119	0	310	110486	1
As-1	75	49.926	ug/L	0.315	0	9967	120055	0
Se	82	52.386	ug/L	0.863	1	4	12534	2
Se	78	50.673	ug/L	0.700	1	10138	41894	0
Mo	98	51.321	ug/L	0.887	1	31	253545	0
Y	89		ug/L			399449	410658	2
Kr	83		ug/L			635	663	2
> In	115		ug/L			965468	986036	0
Ag	107	52.357	ug/L	1.186	2	54	613553	2
Cd	111	50.710	ug/L	0.335	0	102	242736	0
Cd	114	49.645	ug/L	0.114	0	36	601140	0
Sb	121	49.518	ug/L	0.492	0	768	702644	0
Sb	123	49.770	ug/L	0.348	0	575	534602	0
Ba	135	48.512	ug/L	0.723	1	23	205708	1
Ba	137	48.640	ug/L	0.256	0	42	357520	0
> Tb	159		ug/L			1098939	1137752	0
Tl	205	46.361	ug/L	0.314	0	811	1823752	0
Pb	208	47.514	ug/L	0.288	0	507	2369037	0
Bi	209		ug/L			2742152	2705305	0
Th	232	49.734	ug/L	0.520	1	5672	2434338	0
U	238	50.308	ug/L	0.173	0	50	2652782	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 15:55:39

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1829834	0
[Be	9	-0.001	ug/L	0.001	87	22	19	18
C	13		ug/L			143235	147824	0
Cl	37		ug/L			4954439	5104057	6
> Sc	45		ug/L			1218098	1239387	1
V	51	-0.009	ug/L	0.020	231	9170	9117	5
V-1	51	0.003	ug/L	0.001	19	105	171	6
Cr	52	-0.044	ug/L	0.066	150	27160	26736	5
Cr	53	-0.006	ug/L	0.004	70	170	160	5
Mn	55	0.001	ug/L	0.000	51	674	711	1
[Co	59	0.000	ug/L	0.000	52	88	93	1
> Ge	72		ug/L			652831	634942	0
Ni	60	0.000	ug/L	0.001	1640	35	34	14
Ni	62	-0.238	ug/L	0.027	11	471	322	5
Cu	63	-0.006	ug/L	0.001	19	514	443	2
Cu	65	0.007	ug/L	0.003	43	55	82	14
Zn	66	0.006	ug/L	0.007	124	255	262	7
Zn	67	0.008	ug/L	0.014	166	38	41	13
Zn	68	0.016	ug/L	0.010	62	241	263	7
As	75	0.014	ug/L	0.006	43	310	333	4
As-1	75	0.105	ug/L	0.035	33	9967	9924	0
Se	82	-0.033	ug/L	0.032	97	4	-3	224
Se	78	0.339	ug/L	0.092	27	10138	10073	0
[Mo	98	0.017	ug/L	0.003	16	31	114	11
Y	89		ug/L			399449	394972	2
Kr	83		ug/L			635	662	2
> In	115		ug/L			965468	976356	0
Ag	107	0.002	ug/L	0.001	53	54	76	14
Cd	111	0.000	ug/L	0.000	2717	102	104	2
Cd	114	0.001	ug/L	0.001	149	36	47	32
Sb	121	0.090	ug/L	0.038	42	768	2039	26
Sb	123	0.088	ug/L	0.033	38	575	1514	23
Ba	135	0.002	ug/L	0.001	69	23	30	15
[Ba	137	0.001	ug/L	0.002	120	42	53	24
> Tb	159		ug/L			1098939	1091429	1
Tl	205	-0.010	ug/L	0.004	38	811	435	33
Pb	208	0.002	ug/L	0.000	6	507	604	2
Bi	209		ug/L			2742152	2776776	1
Th	232	0.282	ug/L	0.150	53	5672	18874	37
[U	238	0.005	ug/L	0.002	31	50	297	26

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 MB1 SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:02:53

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

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Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1823605	2
[Be	9	-0.001	ug/L	0.001	68	22	17	19
C	13		ug/L			143235	154438	2
Cl	37		ug/L			4954439	5023182	2
> Sc	45		ug/L			1218098	1231692	1
V	51	-0.001	ug/L	0.007	1290	9170	9258	2
V-1	51	0.000	ug/L	0.001	207	105	114	14
Cr	52	-0.001	ug/L	0.025	2759	27160	27443	2
Cr	53	0.002	ug/L	0.002	110	170	176	4
Mn	55	0.041	ug/L	0.001	3	674	1816	3
Co	59	0.000	ug/L	0.001	1155	88	90	13
> Ge	72		ug/L			652831	621149	1
Ni	60	-0.001	ug/L	0.001	79	35	29	13
Ni	62	-0.360	ug/L	0.029	7	471	247	5
Cu	63	0.007	ug/L	0.004	59	514	554	7
Cu	65	0.028	ug/L	0.002	8	55	164	4
Zn	66	0.130	ug/L	0.018	13	255	562	6
Zn	67	0.133	ug/L	0.019	14	38	91	7
Zn	68	0.160	ug/L	0.007	4	241	513	2
As	75	0.010	ug/L	0.017	174	310	315	10
As-1	75	0.202	ug/L	0.065	32	9967	9918	1
Se	82	-0.071	ug/L	0.082	114	4	-12	154
Se	78	0.698	ug/L	0.205	29	10138	10074	0
Mo	98	0.000	ug/L	0.001	224	31	31	9
Y	89		ug/L			399449	395114	1
Kr	83		ug/L			635	678	7
> In	115		ug/L			965468	963691	0
Ag	107	-0.002	ug/L	0.000	12	54	30	8
Cd	111	-0.003	ug/L	0.001	51	102	89	7
Cd	114	0.001	ug/L	0.000	72	36	43	12
Sb	121	-0.023	ug/L	0.004	15	768	444	11
Sb	123	-0.021	ug/L	0.006	26	575	351	17
Ba	135	0.015	ug/L	0.001	8	23	85	5
Ba	137	0.015	ug/L	0.004	23	42	152	17
> Tb	159		ug/L			1098939	1084430	0
Tl	205	-0.013	ug/L	0.004	35	811	328	50
Pb	208	0.006	ug/L	0.000	6	507	795	1
Bi	209		ug/L			2742152	2683528	1
Th	232	0.003	ug/L	0.026	961	5672	5721	20
U	238	-0.000	ug/L	0.000	888	50	47	40

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 MB1SPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:07:01

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1820626	1
[Be	9	25.777	ug/L	0.678	2	22	122927	0
C	13		ug/L			143235	153421	2
[Cl	37		ug/L			4954439	5043900	2
> Sc	45		ug/L			1218098	1235394	1
V	51	24.751	ug/L	0.116	0	9170	610648	1
V-1	51	24.945	ug/L	0.166	0	105	599659	1
[Cr	52	24.868	ug/L	0.071	0	27160	538868	1
Cr	53	25.537	ug/L	0.608	2	170	57377	1
[Mn	55	25.660	ug/L	0.157	0	674	717415	0
[Co	59	25.040	ug/L	0.622	2	88	505507	1
> Ge	72		ug/L			652831	636042	1
Ni	60	26.516	ug/L	0.858	3	35	108020	2
[Ni	62	25.865	ug/L	0.163	0	471	15213	1
[Cu	63	26.680	ug/L	0.696	2	514	242109	1
[Cu	65	26.493	ug/L	0.329	1	55	108532	2
[Zn	66	87.014	ug/L	3.615	4	255	218742	3
[Zn	67	79.625	ug/L	1.655	2	38	33303	1
[Zn	68	79.921	ug/L	0.356	0	241	145189	0
[As	75	25.476	ug/L	0.164	0	310	55792	0
[As-1	75	25.364	ug/L	0.284	1	9967	65538	0
[Se	82	84.063	ug/L	1.074	1	4	20030	0
[Se	78	81.499	ug/L	1.647	2	10138	61113	0
[Mo	98	25.080	ug/L	0.039	0	31	123465	0
[Y	89		ug/L			399449	406536	1
[Kr	83		ug/L			635	669	4
> In	115		ug/L			965468	984485	0
[Ag	107	27.040	ug/L	0.638	2	54	316376	2
[Cd	111	25.496	ug/L	0.233	0	102	121908	1
[Cd	114	25.010	ug/L	0.162	0	36	302378	0
[Sb	121	24.638	ug/L	0.149	0	768	349463	0
[Sb	123	24.484	ug/L	0.207	0	575	262876	0
[Ba	135	24.950	ug/L	0.253	1	23	105643	0
[Ba	137	25.001	ug/L	0.097	0	42	183502	0
> Tb	159		ug/L			1098939	1113703	0
[Tl	205	24.555	ug/L	0.248	1	811	945972	1
[Pb	208	25.294	ug/L	0.023	0	507	1234776	0
[Bi	209		ug/L			2742152	2745593	1
[Th	232	22.931	ug/L	0.060	0	5672	1101798	0
[U	238	23.397	ug/L	0.315	1	50	1207716	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:15:16

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1919305	2
[Be	9	1.082	ug/L	0.019	1	22	5466	2
C	13		ug/L			143235	259002	1
Cl	37		ug/L			4954439	5229024	1
> Sc	45		ug/L			1218098	1404989	0
V	51	22.465	ug/L	0.258	1	9170	631265	0
V-1	51	22.745	ug/L	0.336	1	105	621819	1
Cr	52	18.780	ug/L	0.377	2	27160	470518	2
Cr	53	19.603	ug/L	0.133	0	170	50147	1
Mn	55	5417.542	ug/L	11.276	0	674	172106195	0
Co	59	19.827	ug/L	0.233	1	88	455276	0
> Ge	72		ug/L			652831	650401	2
Ni	60	47.653	ug/L	1.474	3	35	198426	1
Ni	62	49.108	ug/L	1.093	2	471	29107	0
Cu	63	54.706	ug/L	2.130	3	514	506910	1
Cu	65	55.233	ug/L	1.083	1	55	231238	0
Zn	66	1425.883	ug/L	38.008	2	255	3661423	1
Zn	67	1196.298	ug/L	8.951	0	38	511127	1
Zn	68	1378.399	ug/L	14.131	1	241	2556595	1
As	75	49.551	ug/L	1.177	2	310	110640	0
As-1	75	48.928	ug/L	1.208	2	9967	120022	0
Se	82	1.127	ug/L	0.135	11	4	278	10
Se	78	1.269	ug/L	0.321	25	10138	10914	1
Mo	98	1.120	ug/L	0.029	2	31	5670	2
Y	89		ug/L			399449	691324	2
Kr	83		ug/L			635	1083	3
> In	115		ug/L			965468	1114414	1
Ag	107	0.628	ug/L	0.015	2	54	8381	0
Cd	111	34.233	ug/L	0.663	1	102	185203	0
Cd	114	33.588	ug/L	0.524	1	36	459603	0
Sb	121	2.295	ug/L	0.019	0	768	37642	0
Sb	123	2.285	ug/L	0.038	1	575	28365	0
Ba	135	493.285	ug/L	7.900	1	23	2363582	0
[Ba	137	488.943	ug/L	10.643	2	42	4060642	1
> Tb	159		ug/L			1098939	1158275	0
Tl	205	0.975	ug/L	0.011	1	811	39887	0
Pb	208	1078.510	ug/L	8.095	0	507	54732599	0
Bi	209		ug/L			2742152	2738827	0
Th	232	3.563	ug/L	0.013	0	5672	183103	0
U	238	0.662	ug/L	0.007	1	50	35569	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:11:08

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1862994	2
[Be	9	0.536	ug/L	0.031	5	22	2635	3
C	13		ug/L			143235	212730	2
Cl	37		ug/L			4954439	5249210	3
> Sc	45		ug/L			1218098	1421266	3
V	51	38.121	ug/L	1.305	3	9170	1075509	1
V-1	51	38.678	ug/L	1.562	4	105	1068805	1
Cr	52	30.119	ug/L	0.480	1	27160	743981	1
Cr	53	31.734	ug/L	1.389	4	170	81925	1
Mn	55	993.655	ug/L	35.342	3	674	31912120	1
Co	59	8.330	ug/L	0.149	1	88	193496	1
> Ge	72		ug/L			652831	647944	0
Ni	60	21.964	ug/L	0.341	1	35	91167	1
Ni	62	23.747	ug/L	0.240	1	471	14267	1
Cu	63	34.225	ug/L	0.210	0	514	316284	0
Cu	65	34.686	ug/L	0.306	0	55	144726	1
Zn	66	355.422	ug/L	4.940	1	255	909676	1
Zn	67	348.669	ug/L	4.089	1	38	148447	1
Zn	68	357.155	ug/L	4.775	1	241	660159	1
As	75	10.627	ug/L	0.084	0	310	23888	0
As-1	75	10.428	ug/L	0.092	0	9967	33275	0
Se	82	-0.031	ug/L	0.043	140	4	-2	353
Se	78	0.137	ug/L	0.160	116	10138	10150	0
Mo	98	0.426	ug/L	0.011	2	31	2169	2
Y	89		ug/L			399449	565854	0
Kr	83		ug/L			635	1014	3
> In	115		ug/L			965468	1027630	0
Ag	107	0.194	ug/L	0.007	3	54	2425	3
Cd	111	6.897	ug/L	0.041	0	102	34503	1
Cd	114	6.751	ug/L	0.034	0	36	85223	0
Sb	121	0.347	ug/L	0.007	2	768	5951	2
Sb	123	0.343	ug/L	0.007	2	575	4444	2
Ba	135	536.902	ug/L	2.326	0	23	2372543	0
Ba	137	526.200	ug/L	5.376	1	42	4030472	0
> Tb	159		ug/L			1098939	1152022	0
Tl	205	0.346	ug/L	0.002	0	811	14634	0
Pb	208	330.862	ug/L	0.714	0	507	16700737	0
Bi	209		ug/L			2742152	2681266	0
Th	232	4.423	ug/L	0.056	1	5672	224634	0
U	238	0.778	ug/L	0.009	1	50	41613	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:19:23

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1973144	3
Be	9	0.787	ug/L	0.022	2	22	4090	1
C	13		ug/L			143235	298840	0
Cl	37		ug/L			4954439	5533960	1
> Sc	45		ug/L			1218098	1405970	1
V	51	17.549	ug/L	0.444	2	9170	495685	1
V-1	51	17.649	ug/L	0.384	2	105	482781	0
Cr	52	13.057	ug/L	0.392	3	27160	336784	1
Cr	53	13.234	ug/L	0.427	3	170	33930	1
Mn	55	5217.377	ug/L	90.325	1	674	165834914	0
Co	59	17.425	ug/L	0.305	1	88	400348	0
> Ge	72		ug/L			652831	653410	1
Ni	60	37.359	ug/L	0.341	0	35	156345	0
Ni	62	38.033	ug/L	0.819	2	471	22757	1
Cu	63	59.323	ug/L	0.634	1	514	552458	1
Cu	65	59.176	ug/L	0.947	1	55	248979	2
Zn	66	1184.350	ug/L	9.879	0	255	3056086	0
Zn	67	1016.862	ug/L	32.388	3	38	436404	2
Zn	68	1091.360	ug/L	57.381	5	241	2034155	5
As	75	19.841	ug/L	0.137	0	310	44705	0
As-1	75	19.476	ug/L	0.212	1	9967	54013	0
Se	82	1.229	ug/L	0.041	3	4	305	3
Se	78	1.067	ug/L	0.262	24	10138	10835	0
Mo	98	1.034	ug/L	0.039	3	31	5259	2
Y	89		ug/L			399449	674738	1
Kr	83		ug/L			635	991	2
> In	115		ug/L			965468	1133031	0
Ag	107	0.928	ug/L	0.028	2	54	12556	2
Cd	111	23.967	ug/L	0.304	1	102	131884	0
Cd	114	23.565	ug/L	0.075	0	36	327895	0
Sb	121	2.761	ug/L	0.030	1	768	45864	0
Sb	123	2.757	ug/L	0.022	0	575	34668	0
Ba	135	355.919	ug/L	3.718	1	23	1734018	0
Ba	137	386.829	ug/L	8.152	2	42	3266505	1
> Tb	159		ug/L			1098939	1156327	0
Tl	205	0.802	ug/L	0.007	0	811	32885	0
Pb	208	1478.029	ug/L	10.350	0	507	74881860	0
Bi	209		ug/L			2742152	2733856	0
Th	232	2.524	ug/L	0.010	0	5672	131209	0
U	238	0.519	ug/L	0.002	0	50	27844	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 D SWN

Sample Dil Factor: 500

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:23:31

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1861901	0
Be	9	0.037	ug/L	0.003	7	22	206	5
C	13		ug/L			143235	161717	0
Cl	37		ug/L			4954439	5537750	5
> Sc	45		ug/L			1218098	1292808	0
V	51	0.747	ug/L	0.020	2	9170	28715	0
V-1	51	0.783	ug/L	0.007	0	105	19804	0
Cr	52	0.497	ug/L	0.050	10	27160	39517	1
Cr	53	0.612	ug/L	0.006	1	170	1615	1
Mn	55	238.431	ug/L	3.789	1	674	6970700	2
Co	59	0.806	ug/L	0.012	1	88	17117	1
> Ge	72		ug/L			652831	652865	2
Ni	60	1.594	ug/L	0.012	0	35	6700	2
Ni	62	1.156	ug/L	0.121	10	471	1146	4
Cu	63	2.624	ug/L	0.086	3	514	24898	1
Cu	65	2.603	ug/L	0.036	1	55	10990	1
Zn	66	49.991	ug/L	1.228	2	255	129083	0
Zn	67	44.976	ug/L	1.365	3	38	19317	0
Zn	68	48.120	ug/L	1.062	2	241	89793	0
As	75	0.882	ug/L	0.024	2	310	2280	0
As-1	75	0.926	ug/L	0.150	16	9967	12054	0
Se	82	0.054	ug/L	0.063	116	4	17	86
Se	78	0.305	ug/L	0.436	142	10138	10330	0
Mo	98	0.042	ug/L	0.002	5	31	242	2
Y	89		ug/L			399449	420117	1
Kr	83		ug/L			635	689	4
> In	115		ug/L			965468	984973	1
Ag	107	0.046	ug/L	0.003	7	54	594	6
Cd	111	1.207	ug/L	0.038	3	102	5871	1
Cd	114	1.191	ug/L	0.034	2	36	14440	1
Sb	121	0.097	ug/L	0.007	7	768	2159	3
Sb	123	0.102	ug/L	0.007	6	575	1675	4
Ba	135	16.766	ug/L	0.419	2	23	71017	1
Ba	137	16.637	ug/L	0.394	2	42	122167	1
> Tb	159		ug/L			1098939	1097664	0
Ti	205	0.017	ug/L	0.001	3	811	1458	2
Pb	208	60.663	ug/L	0.154	0	507	2917963	0
Bi	209		ug/L			2742152	2709554	1
Th	232	0.004	ug/L	0.003	76	5672	5860	2
U	238	0.021	ug/L	0.001	2	50	1133	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:27:38

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1953252	1
[Be	9	2.272	ug/L	0.092	4	22	11646	3
C	13		ug/L			143235	261210	2
Cl	37		ug/L			4954439	5345060	1
> Sc	45		ug/L			1218098	1410003	0
V	51	26.173	ug/L	0.422	1	9170	736440	2
V-1	51	26.453	ug/L	0.287	1	105	725857	1
Cr	52	21.886	ug/L	0.274	1	27160	545093	1
Cr	53	22.688	ug/L	0.360	1	170	58211	1
Mn	55	4433.189	ug/L	57.190	1	674	141343596	1
Co	59	31.859	ug/L	0.464	1	88	734112	1
> Ge	72		ug/L			652831	643438	0
Ni	60	70.320	ug/L	0.114	0	35	289775	0
Ni	62	72.384	ug/L	1.255	1	471	42236	1
Cu	63	62.212	ug/L	0.931	1	514	570509	1
Cu	65	63.352	ug/L	0.899	1	55	262445	1
Zn	66	709.547	ug/L	11.670	1	255	1803109	1
Zn	67	654.116	ug/L	11.251	1	38	276511	1
Zn	68	684.535	ug/L	12.437	1	241	1256240	1
As	75	25.547	ug/L	0.221	0	310	56598	0
As-1	75	25.092	ug/L	0.164	0	9967	65697	0
Se	82	1.267	ug/L	0.136	10	4	309	10
Se	78	1.537	ug/L	0.167	10	10138	10970	1
Mo	98	1.515	ug/L	0.030	1	31	7574	2
Y	89		ug/L			399449	882723	1
Kr	83		ug/L			635	1410	4
> In	115		ug/L			965468	1002926	0
Ag	107	0.930	ug/L	0.016	1	54	11143	1
Cd	111	11.360	ug/L	0.198	1	102	55397	2
Cd	114	11.115	ug/L	0.094	0	36	136923	0
Sb	121	0.844	ug/L	0.003	0	768	12965	0
Sb	123	0.847	ug/L	0.011	1	575	9842	1
Ba	135	337.536	ug/L	1.558	0	23	1455693	0
Ba	137	368.965	ug/L	4.035	1	42	2758080	0
> Tb	159		ug/L			1098939	1145784	0
Tl	205	0.375	ug/L	0.005	1	811	15693	0
Pb	208	519.209	ug/L	4.230	0	507	26064423	0
Bi	209		ug/L			2742152	2564742	0
Th	232	4.555	ug/L	0.067	1	5672	229867	0
U	238	0.764	ug/L	0.008	1	50	40597	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 G SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:31:46

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

DL

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1896226	1
[Be	9	0.621	ug/L	0.009	1	22	3110	2
C	13		ug/L			143235	209058	0
Cl	37		ug/L			4954439	5116821	0
> Sc	45		ug/L			1218098	1401944	1
V	51	23.505	ug/L	0.370	1	9170	658515	0
V-1	51	23.849	ug/L	0.456	1	105	650543	0
Cr	52	19.393	ug/L	0.032	0	27160	483775	1
Cr	53	20.423	ug/L	0.361	1	170	52117	1
Mn	55	2682.687	ug/L	30.289	1	674	85045189	2
Co	59	9.002	ug/L	0.074	0	88	206319	0
> Ge	72		ug/L			652831	636549	1
Ni	60	27.864	ug/L	0.700	2	35	113593	1
Ni	62	28.844	ug/L	1.114	3	471	16922	2
Cu	63	25.945	ug/L	0.465	1	514	235644	1
Cu	65	25.984	ug/L	0.281	1	55	106515	0
Zn	66	416.561	ug/L	3.827	0	255	1047280	0
Zn	67	403.881	ug/L	7.930	1	38	168939	2
Zn	68	412.314	ug/L	9.762	2	241	748545	1
As	75	20.105	ug/L	0.253	1	310	44124	0
As-1	75	19.920	ug/L	0.325	1	9967	53595	0
Se	82	0.140	ug/L	0.034	24	4	37	22
Se	78	0.766	ug/L	0.243	31	10138	10366	0
Mo	98	0.785	ug/L	0.013	1	31	3899	2
Y	89		ug/L			399449	563706	1
Kr	83		ug/L			635	1052	2
> In	115		ug/L			965468	1014799	1
Ag	107	0.297	ug/L	0.008	2	54	3642	3
Cd	111	7.314	ug/L	0.193	2	102	36116	1
Cd	114	7.103	ug/L	0.165	2	36	88540	1
Sb	121	0.381	ug/L	0.010	2	768	6362	1
Sb	123	0.389	ug/L	0.008	2	575	4902	1
Ba	135	383.546	ug/L	6.507	1	23	1673511	0
Ba	137	416.242	ug/L	5.484	1	42	3148203	0
> Tb	159		ug/L			1098939	1135752	1
Tl	205	0.378	ug/L	0.006	1	811	15692	0
Pb	208	329.337	ug/L	4.267	1	507	16387213	0
Bi	209		ug/L			2742152	2637565	0
Th	232	4.163	ug/L	0.092	2	5672	208756	0
U	238	0.596	ug/L	0.009	1	50	31406	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 H SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:36:57

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1764931	1
[Be	9	-0.001	ug/L	0.001	50	22	16	21
C	13		ug/L			143235	149714	0
Cl	37		ug/L			4954439	4893392	4
> Sc	45		ug/L			1218098	1210323	0
V	51	-0.009	ug/L	0.016	184	9170	8906	4
V-1	51	0.001	ug/L	0.001	86	105	129	15
Cr	52	-0.034	ug/L	0.053	156	27160	26305	3
Cr	53	-0.002	ug/L	0.007	431	170	165	8
Mn	55	0.232	ug/L	0.028	12	674	7035	11
Co	59	0.001	ug/L	0.000	74	88	98	7
> Ge	72		ug/L			652831	616059	2
Ni	60	0.001	ug/L	0.002	140	35	38	19
Ni	62	-0.573	ug/L	0.001	0	471	127	2
Cu	63	0.006	ug/L	0.005	85	514	533	5
Cu	65	0.039	ug/L	0.006	14	55	208	9
Zn	66	0.158	ug/L	0.034	21	255	623	11
Zn	67	0.147	ug/L	0.038	25	38	96	14
Zn	68	0.146	ug/L	0.025	16	241	483	7
As	75	0.007	ug/L	0.021	319	310	306	13
As-1	75	0.283	ug/L	0.136	47	9967	10005	1
Se	82	-0.091	ug/L	0.111	120	4	-17	149
Se	78	1.023	ug/L	0.518	50	10138	10185	1
Mo	98	-0.003	ug/L	0.001	33	31	15	31
Y	89		ug/L			399449	399676	2
Kr	83		ug/L			635	711	1
> In	115		ug/L			965468	947321	0
Ag	107	-0.003	ug/L	0.001	20	54	23	25
Cd	111	-0.002	ug/L	0.003	140	102	92	13
Cd	114	0.001	ug/L	0.001	92	36	50	26
Sb	121	-0.049	ug/L	0.002	3	768	89	28
Sb	123	-0.048	ug/L	0.001	1	575	67	13
Ba	135	0.024	ug/L	0.004	16	23	119	12
Ba	137	0.026	ug/L	0.002	9	42	225	7
> Tb	159		ug/L			1098939	1055990	0
Tl	205	-0.020	ug/L	0.000	1	811	67	16
Pb	208	0.022	ug/L	0.002	11	507	1508	7
Bi	209		ug/L			2742152	2678762	0
Th	232	-0.082	ug/L	0.006	7	5672	1753	15
U	238	-0.000	ug/L	0.000	23	50	25	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS20 I SWS

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:41:04

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1891802	1
Be	9	1.045	ug/L	0.029	2	22	5204	1
C	13		ug/L			143235	206481	2
Cl	37		ug/L			4954439	5150949	2
> Sc	45		ug/L			1218098	1526542	0
V	51	60.712	ug/L	0.116	0	9170	1834104	0
V-1	51	61.508	ug/L	0.257	0	105	1826925	0
Cr	52	41.989	ug/L	0.668	1	27160	1100856	1
Cr	53	44.026	ug/L	0.340	0	170	122101	0
Mn	55	1730.052	ug/L	26.500	1	674	59713478	1
Co	59	15.949	ug/L	0.188	1	88	397949	0
> Ge	72		ug/L			652831	620684	1
Ni	60	46.048	ug/L	0.734	1	35	183031	0
Ni	62	48.211	ug/L	0.523	1	471	27286	2
Cu	63	45.625	ug/L	1.110	2	514	403653	1
Cu	65	45.986	ug/L	0.624	1	55	183783	1
Zn	66	320.034	ug/L	5.985	1	255	784600	1
Zn	67	335.312	ug/L	4.198	1	38	136738	0
Zn	68	338.771	ug/L	7.557	2	241	599809	2
As	75	20.270	ug/L	0.345	1	310	43374	0
As-1	75	20.074	ug/L	0.397	1	9967	52588	0
Se	82	-0.401	ug/L	0.048	11	4	-88	11
Se	78	0.974	ug/L	0.188	19	10138	10235	0
Mo	98	1.067	ug/L	0.012	1	31	5153	0
Y	89		ug/L			399449	747659	2
Kr	83		ug/L			635	1616	1
> In	115		ug/L			965468	952319	0
Ag	107	0.406	ug/L	0.012	2	54	4651	3
Cd	111	4.580	ug/L	0.005	0	102	21268	0
Cd	114	4.312	ug/L	0.080	1	36	50453	1
Sb	121	0.134	ug/L	0.003	1	768	2594	1
Sb	123	0.137	ug/L	0.005	3	575	1984	1
Ba	135	736.878	ug/L	11.102	1	23	3017409	0
Ba	137	736.843	ug/L	7.216	0	42	5230147	0
> Tb	159		ug/L			1098939	1126741	0
Tl	205	0.353	ug/L	0.004	1	811	14588	0
Pb	208	153.422	ug/L	0.961	0	507	7574445	0
Bi	209		ug/L			2742152	2488826	0
Th	232	7.612	ug/L	0.035	0	5672	373920	0
U	238	1.157	ug/L	0.014	1	50	60449	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:45:14

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1808162	1
[Be	9	52.885	ug/L	0.890	1	22	250495	1
C	13		ug/L			143235	145139	0
Cl	37		ug/L			4954439	5202951	2
> Sc	45		ug/L			1218098	1254317	3
V	51	46.799	ug/L	1.475	3	9170	1163112	0
V-1	51	47.251	ug/L	1.211	2	105	1152649	1
Cr	52	47.531	ug/L	1.613	3	27160	1019595	0
Cr	53	49.109	ug/L	0.585	1	170	111868	2
Mn	55	47.798	ug/L	1.561	3	674	1355547	1
Co	59	47.456	ug/L	0.936	1	88	972405	1
> Ge	72		ug/L			652831	625443	1
Ni	60	51.327	ug/L	0.696	1	35	205613	2
Ni	62	50.327	ug/L	1.727	3	471	28674	2
Cu	63	51.457	ug/L	0.761	1	514	458724	0
Cu	65	49.793	ug/L	1.561	3	55	200468	1
Zn	66	51.667	ug/L	1.378	2	255	127836	2
Zn	67	51.156	ug/L	0.877	1	38	21053	1
Zn	68	50.920	ug/L	1.355	2	241	91028	1
As	75	51.914	ug/L	1.087	2	310	111470	0
As-1	75	50.819	ug/L	1.055	2	9967	119525	0
Se	82	54.885	ug/L	0.951	1	4	12860	0
Se	78	51.004	ug/L	0.784	1	10138	41243	0
Mo	98	53.992	ug/L	1.652	3	31	261265	1
Y	89		ug/L			399449	400704	1
Kr	83		ug/L			635	700	4
> In	115		ug/L			965468	949885	0
Ag	107	57.148	ug/L	1.259	2	54	645054	1
Cd	111	51.861	ug/L	0.655	1	102	239161	1
Cd	114	50.917	ug/L	0.621	1	36	593918	0
Sb	121	51.006	ug/L	0.393	0	768	697204	0
Sb	123	51.617	ug/L	0.281	0	575	534096	0
Ba	135	49.429	ug/L	0.610	1	23	201915	1
Ba	137	49.460	ug/L	0.542	1	42	350204	0
> Tb	159		ug/L			1098939	1083269	1
Tl	205	47.154	ug/L	0.624	1	811	1765994	0
Pb	208	48.701	ug/L	0.482	0	507	2311851	0
Bi	209		ug/L			2742152	2608621	0
Th	232	50.830	ug/L	0.410	0	5672	2368710	0
U	238	51.967	ug/L	0.384	0	50	2608909	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 16:52:06

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1813611	2
Be	9	-0.000	ug/L	0.000	122	22	22	9
C	13		ug/L			143235	155909	3
Cl	37		ug/L			4954439	5013965	1
> Sc	45		ug/L			1218098	1246312	1
V	51	-0.019	ug/L	0.018	92	9170	8903	3
V-1	51	-0.001	ug/L	0.000	34	105	73	17
Cr	52	-0.070	ug/L	0.060	85	27160	26327	3
Cr	53	-0.010	ug/L	0.003	26	170	151	4
Mn	55	0.022	ug/L	0.013	59	674	1319	29
Co	59	0.001	ug/L	0.001	113	88	109	20
> Ge	72		ug/L			652831	618137	2
Ni	60	0.004	ug/L	0.002	149	35	37	19
Ni	62	-0.549	ug/L	0.024	4	471	142	11
Cu	63	-0.032	ug/L	0.002	7	514	204	7
Cu	65	0.000	ug/L	0.002	1275	55	53	15
Zn	66	-0.031	ug/L	0.007	22	255	165	7
Zn	67	-0.008	ug/L	0.021	263	38	33	24
Zn	68	-0.010	ug/L	0.008	79	241	211	7
As	75	0.019	ug/L	0.006	31	310	333	2
As-1	75	0.296	ug/L	0.144	48	9967	10064	0
Se	82	-0.058	ug/L	0.047	80	4	-9	117
Se	78	1.023	ug/L	0.504	49	10138	10218	0
Mo	98	0.003	ug/L	0.000	15	31	44	3
Y	89		ug/L			399449	388345	1
Kr	83		ug/L			635	689	5
> In	115		ug/L			965468	940789	1
Ag	107	-0.002	ug/L	0.001	37	54	31	23
Cd	111	-0.001	ug/L	0.002	119	102	93	9
Cd	114	0.001	ug/L	0.001	122	36	47	32
Sb	121	0.009	ug/L	0.008	87	768	864	10
Sb	123	0.010	ug/L	0.006	60	575	667	8
Ba	135	0.002	ug/L	0.002	124	23	30	28
Ba	137	0.001	ug/L	0.003	298	42	47	37
> Tb	159		ug/L			1098939	1061653	0
Tl	205	-0.016	ug/L	0.002	11	811	186	36
Pb	208	0.002	ug/L	0.003	148	507	576	21
Bi	209		ug/L			2742152	2659618	1
Th	232	0.051	ug/L	0.017	33	5672	7791	9
U	238	0.002	ug/L	0.001	42	50	145	27

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 A-L SWN

Sample Dil Factor: 500

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:09:02

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1854047	2
[Be	9	0.027	ug/L	0.000	0	22	155	2
C	13		ug/L			143235	151562	1
Cl	37		ug/L			4954439	4757428	2
> Sc	45		ug/L			1218098	1264293	1
V	51	2.231	ug/L	0.056	2	9170	64985	1
V-1	51	2.292	ug/L	0.037	1	105	56491	0
Cr	52	1.411	ug/L	0.102	7	27160	57862	2
Cr	53	1.590	ug/L	0.039	2	170	3822	2
Mn	55	29.517	ug/L	0.679	2	674	844337	1
Co	59	0.413	ug/L	0.017	3	88	8631	2
> Ge	72		ug/L			652831	643843	0
Ni	60	0.994	ug/L	0.008	0	35	4132	0
Ni	62	0.519	ug/L	0.043	8	471	764	2
Cu	63	1.422	ug/L	0.024	1	514	13543	1
Cu	65	1.458	ug/L	0.033	2	55	6095	2
Zn	66	12.709	ug/L	0.169	1	255	32563	1
Zn	67	12.415	ug/L	0.358	2	38	5288	2
Zn	68	12.661	ug/L	0.304	2	241	23485	2
As	75	0.973	ug/L	0.019	1	310	2450	1
As-1	75	1.029	ug/L	0.049	4	9967	12122	0
Se	82	-0.052	ug/L	0.064	123	4	-8	191
Se	78	0.259	ug/L	0.124	47	10138	10163	0
Mo	98	0.021	ug/L	0.002	11	31	134	8
Y	89		ug/L			399449	413315	0
Kr	83		ug/L			635	689	4
> In	115		ug/L			965468	978296	0
Ag	107	0.010	ug/L	0.002	16	54	175	11
Cd	111	0.300	ug/L	0.014	4	102	1529	4
Cd	114	0.294	ug/L	0.006	2	36	3564	1
Sb	121	-0.020	ug/L	0.002	10	768	492	6
Sb	123	-0.019	ug/L	0.004	22	575	383	11
Ba	135	8.411	ug/L	0.033	0	23	35406	0
Ba	137	8.376	ug/L	0.052	0	42	61119	0
> Tb	159		ug/L			1098939	1099156	0
Tl	205	0.003	ug/L	0.001	24	811	930	3
Pb	208	21.987	ug/L	0.083	0	507	1059366	0
Bi	209		ug/L			2742152	2730491	0
Th	232	0.098	ug/L	0.012	12	5672	10284	5
U	238	0.032	ug/L	0.001	1	50	1692	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 A SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:13:09

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1857513	2
[Be	9	0.144	ug/L	0.002	1	22	722	0
C	13		ug/L			143235	158282	1
Cl	37		ug/L			4954439	4893708	2
> Sc	45		ug/L			1218098	1305190	0
V	51	11.243	ug/L	0.128	1	9170	298430	1
V-1	51	11.376	ug/L	0.143	1	105	288999	1
Cr	52	7.285	ug/L	0.025	0	27160	187353	0
Cr	53	7.592	ug/L	0.108	1	170	18154	1
Mn	55	154.348	ug/L	2.095	1	674	4555664	1
Co	59	2.037	ug/L	0.021	1	88	43539	1
> Ge	72		ug/L			652831	647153	1
Ni	60	4.936	ug/L	0.152	3	35	20486	1
Ni	62	4.873	ug/L	0.059	1	471	3295	0
Cu	63	7.159	ug/L	0.130	1	514	66472	0
Cu	65	7.296	ug/L	0.241	3	55	30440	2
Zn	66	63.850	ug/L	1.368	2	255	163398	1
Zn	67	62.050	ug/L	0.578	0	38	26415	1
Zn	68	63.243	ug/L	1.534	2	241	116947	2
As	75	4.928	ug/L	0.114	2	310	11226	0
As-1	75	4.870	ug/L	0.172	3	9967	20783	0
Se	82	0.015	ug/L	0.033	223	4	8	100
Se	78	0.174	ug/L	0.244	140	10138	10160	0
Mo	98	0.106	ug/L	0.007	6	31	562	5
Y	89		ug/L			399449	454785	0
Kr	83		ug/L			635	779	3
> In	115		ug/L			965468	988396	1
Ag	107	0.065	ug/L	0.002	3	54	820	2
Cd	111	1.504	ug/L	0.035	2	102	7321	3
Cd	114	1.481	ug/L	0.006	0	36	18011	1
Sb	121	0.028	ug/L	0.003	10	768	1190	3
Sb	123	0.028	ug/L	0.003	12	575	885	3
Ba	135	43.165	ug/L	0.185	0	23	183480	0
Ba	137	42.697	ug/L	0.306	0	42	314586	0
> Tb	159		ug/L			1098939	1099408	0
Tl	205	0.092	ug/L	0.002	2	811	4324	1
Pb	208	118.522	ug/L	0.701	0	507	5709512	0
Bi	209		ug/L			2742152	2727903	0
Th	232	0.854	ug/L	0.006	0	5672	45960	0
U	238	0.173	ug/L	0.002	1	50	8884	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 ADUP SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:17:16

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1844888	1
[Be	9	0.133	ug/L	0.007	5	22	666	5
C	13		ug/L			143235	162864	0
Cl	37		ug/L			4954439	5024130	1
> Sc	45		ug/L			1218098	1302319	1
V	51	11.015	ug/L	0.207	1	9170	291899	1
V-1	51	11.160	ug/L	0.219	1	105	282848	1
Cr	52	6.730	ug/L	0.074	1	27160	174900	0
Cr	53	7.066	ug/L	0.145	2	170	16869	0
Mn	55	145.236	ug/L	2.378	1	674	4276901	0
Co	59	1.989	ug/L	0.030	1	88	42408	1
> Ge	72		ug/L			652831	655229	1
Ni	60	4.755	ug/L	0.107	2	35	19990	3
Ni	62	4.587	ug/L	0.075	1	471	3168	1
Cu	63	6.684	ug/L	0.072	1	514	62877	1
Cu	65	6.772	ug/L	0.067	0	55	28614	0
Zn	66	58.939	ug/L	0.677	1	255	152751	1
Zn	67	56.989	ug/L	0.994	1	38	24567	2
Zn	68	57.915	ug/L	0.668	1	241	108444	0
As	75	4.591	ug/L	0.132	2	310	10611	1
As-1	75	4.534	ug/L	0.182	4	9967	20280	0
Se	82	0.026	ug/L	0.045	171	4	11	101
Se	78	0.117	ug/L	0.198	168	10138	10250	0
Mo	98	0.103	ug/L	0.004	4	31	552	3
Y	89		ug/L			399449	455765	1
Kr	83		ug/L			635	741	3
> In	115		ug/L			965468	980486	1
Ag	107	0.063	ug/L	0.002	3	54	792	2
Cd	111	1.367	ug/L	0.033	2	102	6609	1
Cd	114	1.340	ug/L	0.023	1	36	16163	0
Sb	121	0.025	ug/L	0.002	8	768	1127	1
Sb	123	0.022	ug/L	0.003	13	575	820	3
Ba	135	38.853	ug/L	0.730	1	23	163809	0
Ba	137	38.729	ug/L	0.597	1	42	283040	0
> Tb	159		ug/L			1098939	1100623	0
Tl	205	0.086	ug/L	0.002	2	811	4072	1
Pb	208	108.694	ug/L	1.072	0	507	5241785	0
Bi	209		ug/L			2742152	2706818	0
Th	232	1.287	ug/L	0.014	1	5672	66475	0
U	238	0.290	ug/L	0.004	1	50	14831	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 ASPK SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:21:24

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1893200	2
[Be	9	5.298	ug/L	0.171	3	22	26300	3
C	13		ug/L			143235	160142	1
Cl	37		ug/L			4954439	4969816	3
> Sc	45		ug/L			1218098	1317940	2
V	51	14.683	ug/L	0.182	1	9170	390398	1
V-1	51	14.933	ug/L	0.193	1	105	382931	1
Cr	52	10.776	ug/L	0.291	2	27160	265655	0
Cr	53	11.489	ug/L	0.341	2	170	27631	0
Mn	55	148.781	ug/L	0.315	0	674	4434297	2
Co	59	6.527	ug/L	0.321	4	88	140531	1
> Ge	72		ug/L			652831	642256	1
Ni	60	10.126	ug/L	0.127	1	35	41677	0
Ni	62	9.857	ug/L	0.291	2	471	6141	3
Cu	63	12.290	ug/L	0.054	0	514	112906	1
Cu	65	12.402	ug/L	0.328	2	55	51317	1
Zn	66	79.039	ug/L	1.185	1	255	200687	0
Zn	67	75.289	ug/L	0.875	1	38	31799	0
Zn	68	77.481	ug/L	1.907	2	241	142143	2
As	75	10.001	ug/L	0.145	1	310	22300	0
As-1	75	9.812	ug/L	0.211	2	9967	31611	0
Se	82	17.022	ug/L	0.136	0	4	4099	1
Se	78	16.256	ug/L	0.362	2	10138	20294	1
Mo	98	4.613	ug/L	0.073	1	31	22953	0
Y	89		ug/L			399449	449892	1
Kr	83		ug/L			635	763	5
> In	115		ug/L			965468	984834	0
Ag	107	4.864	ug/L	0.021	0	54	56980	0
Cd	111	6.590	ug/L	0.042	0	102	31598	1
Cd	114	6.404	ug/L	0.043	0	36	77490	1
Sb	121	0.366	ug/L	0.012	3	768	5960	1
Sb	123	0.357	ug/L	0.013	3	575	4416	2
Ba	135	44.826	ug/L	0.484	1	23	189847	0
Ba	137	44.779	ug/L	0.616	1	42	328739	1
> Tb	159		ug/L			1098939	1109924	1
Tl	205	4.702	ug/L	0.051	1	811	181178	0
Pb	208	119.271	ug/L	1.196	1	507	5800195	0
Bi	209		ug/L			2742152	2724222	0
Th	232	4.251	ug/L	0.049	1	5672	208232	0
U	238	4.707	ug/L	0.046	0	50	242163	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~VS21-APOST-SWN~~ *ZZZZZ*

Sample Dil Factor: 100

11-28-12

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:25:31

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1899448	0
[Be	9	27.247	ug/L	0.198	0	22	135611	1
C	13		ug/L			143235	163728	2
[Cl	37		ug/L			4954439	5065508	3
> Sc	45		ug/L			1218098	1305615	1
V	51	34.902	ug/L	0.555	1	9170	905842	0
V-1	51	35.331	ug/L	0.445	1	105	897467	0
Cr	52	32.024	ug/L	1.121	3	27160	724907	2
Cr	53	33.387	ug/L	0.348	1	170	79236	1
Mn	55	174.924	ug/L	4.164	2	674	5163543	0
Co	59	27.061	ug/L	0.310	1	88	577378	0
> Ge	72		ug/L			652831	647609	1
Ni	60	31.978	ug/L	0.647	2	35	132633	1
Ni	62	31.503	ug/L	0.668	2	471	18763	1
Cu	63	32.896	ug/L	0.674	2	514	303857	2
Cu	65	34.006	ug/L	0.397	1	55	141808	0
Zn	66	148.023	ug/L	2.331	1	255	378814	2
Zn	67	139.445	ug/L	2.742	1	38	59356	1
Zn	68	144.631	ug/L	2.465	1	241	267341	2
As	75	32.056	ug/L	0.351	1	310	71400	1
As-1	75	31.345	ug/L	0.227	0	9967	80137	1
Se	82	91.970	ug/L	0.907	0	4	22313	0
Se	78	87.369	ug/L	1.170	1	10138	65984	0
Mo	98	0.110	ug/L	0.006	5	31	584	4
Y	89		ug/L			399449	464579	4
Kr	83		ug/L			635	769	1
> In	115		ug/L			965468	986284	0
Ag	107	28.178	ug/L	0.344	1	54	330304	1
Cd	111	28.696	ug/L	0.280	0	102	137436	0
Cd	114	27.974	ug/L	0.453	1	36	338827	1
Sb	121	0.022	ug/L	0.000	1	768	1093	1
Sb	123	0.021	ug/L	0.002	10	575	808	2
Ba	135	66.176	ug/L	0.613	0	23	280669	0
Ba	137	65.335	ug/L	0.614	0	42	480328	0
> Tb	159		ug/L			1098939	1110762	0
Tl	205	24.868	ug/L	0.324	1	811	955412	0
Pb	208	136.576	ug/L	1.312	0	507	6646995	0
Bi	209		ug/L			2742152	2732861	0
Th	232	24.631	ug/L	0.269	1	5672	1179911	0
U	238	24.433	ug/L	0.199	0	50	1257812	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 B SWN

Sample Dil Factor: 200

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:29:39

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1845859	2
Be	9	0.053	ug/L	0.007	12	22	280	12
C	13		ug/L			143235	173385	2
Cl	37		ug/L			4954439	5139549	0
> Sc	45		ug/L			1218098	1304983	1
V	51	0.970	ug/L	0.007	0	9170	34711	0
V-1	51	1.003	ug/L	0.023	2	105	25587	2
Cr	52	0.669	ug/L	0.057	8	27160	43621	2
Cr	53	0.773	ug/L	0.042	5	170	2011	3
Mn	55	165.544	ug/L	2.361	1	674	4884855	0
Co	59	0.381	ug/L	0.010	2	88	8217	1
> Ge	72		ug/L			652831	650443	1
Ni	60	0.680	ug/L	0.028	4	35	2867	2
Ni	62	0.206	ug/L	0.054	26	471	589	3
Cu	63	4.449	ug/L	0.112	2	514	41705	0
Cu	65	4.603	ug/L	0.065	1	55	19325	1
Zn	66	106.087	ug/L	2.638	2	255	272676	1
Zn	67	101.867	ug/L	3.454	3	38	43552	2
Zn	68	106.460	ug/L	2.919	2	241	197685	2
As	75	2.422	ug/L	0.049	2	310	5702	1
As-1	75	2.461	ug/L	0.128	5	9967	15469	0
Se	82	0.078	ug/L	0.045	58	4	23	47
Se	78	0.367	ug/L	0.307	83	10138	10335	0
Mo	98	0.067	ug/L	0.005	7	31	366	5
Y	89		ug/L			399449	424398	1
Kr	83		ug/L			635	686	2
> In	115		ug/L			965468	1008133	1
Ag	107	0.160	ug/L	0.009	5	54	1967	4
Cd	111	1.917	ug/L	0.013	0	102	9482	0
Cd	114	1.875	ug/L	0.031	1	36	23243	1
Sb	121	1.965	ug/L	0.037	1	768	29274	1
Sb	123	1.999	ug/L	0.030	1	575	22527	1
Ba	135	93.014	ug/L	0.995	1	23	403214	0
Ba	137	91.456	ug/L	1.721	1	42	687167	0
> Tb	159		ug/L			1098939	1096110	1
Tl	205	0.070	ug/L	0.001	1	811	3470	0
Pb	208	170.112	ug/L	0.697	0	507	8170121	1
Bi	209		ug/L			2742152	2762130	0
Th	232	0.313	ug/L	0.016	5	5672	20390	4
U	238	0.052	ug/L	0.001	2	50	2706	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 D SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:33:46

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1880751	2
[Be	9	0.104	ug/L	0.004	3	22	536	1
C	13		ug/L			143235	162832	1
Cl	37		ug/L			4954439	5104359	1
> Sc	45		ug/L			1218098	1297426	0
V	51	5.859	ug/L	0.062	1	9170	159247	0
V-1	51	5.954	ug/L	0.046	0	105	150392	0
Cr	52	4.009	ug/L	0.006	0	27160	115500	0
Cr	53	4.266	ug/L	0.069	1	170	10219	2
Mn	55	377.440	ug/L	3.339	0	674	11073467	1
Co	59	1.674	ug/L	0.078	4	88	35584	5
> Ge	72		ug/L			652831	656944	1
Ni	60	4.000	ug/L	0.079	1	35	16860	1
Ni	62	3.597	ug/L	0.058	1	471	2593	1
Cu	63	8.062	ug/L	0.204	2	514	75924	1
Cu	65	8.131	ug/L	0.129	1	55	34443	2
Zn	66	140.977	ug/L	2.380	1	255	365935	0
Zn	67	136.006	ug/L	4.359	3	38	58723	2
Zn	68	139.869	ug/L	2.037	1	241	262271	1
As	75	6.888	ug/L	0.106	1	310	15805	0
As-1	75	6.814	ug/L	0.158	2	9967	25518	0
Se	82	-0.015	ug/L	0.046	300	4	0	1258
Se	78	0.105	ug/L	0.160	151	10138	10270	0
Mo	98	0.100	ug/L	0.006	6	31	540	6
Y	89		ug/L			399449	439200	1
Kr	83		ug/L			635	744	4
> In	115		ug/L			965468	1002913	1
Ag	107	0.139	ug/L	0.004	3	54	1710	4
Cd	111	3.097	ug/L	0.001	0	102	15179	1
Cd	114	3.035	ug/L	0.032	1	36	37409	0
Sb	121	0.144	ug/L	0.003	1	768	2876	2
Sb	123	0.145	ug/L	0.001	0	575	2183	2
Ba	135	108.977	ug/L	0.982	0	23	469963	0
Ba	137	108.404	ug/L	1.181	1	42	810324	0
Tb	159		ug/L			1098939	1099878	0
Tl	205	0.086	ug/L	0.003	3	811	4084	2
Pb	208	166.237	ug/L	2.883	1	507	8010830	1
Bi	209		ug/L			2742152	2734561	0
Th	232	0.560	ug/L	0.007	1	5672	32103	0
U	238	0.079	ug/L	0.001	0	50	4088	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 E SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:37:53

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1883833	0
[Be	9	0.107	ug/L	0.003	2	22	554	2
C	13		ug/L			143235	162463	0
Cl	37		ug/L			4954439	5051452	2
> Sc	45		ug/L			1218098	1318862	1
V	51	6.254	ug/L	0.089	1	9170	172103	0
V-1	51	6.339	ug/L	0.063	0	105	162754	0
Cr	52	3.813	ug/L	0.168	4	27160	113069	2
Cr	53	4.015	ug/L	0.101	2	170	9787	2
Mn	55	296.562	ug/L	9.417	3	674	8841405	1
Co	59	1.700	ug/L	0.036	2	88	36726	0
> Ge	72		ug/L			652831	652311	1
Ni	60	3.762	ug/L	0.018	0	35	15748	2
Ni	62	3.455	ug/L	0.018	0	471	2492	2
Cu	63	4.254	ug/L	0.025	0	514	40028	1
Cu	65	4.375	ug/L	0.154	3	55	18420	2
Zn	66	91.252	ug/L	2.155	2	255	235243	0
Zn	67	89.010	ug/L	1.837	2	38	38169	0
Zn	68	91.450	ug/L	2.757	3	241	170286	1
As	75	4.965	ug/L	0.141	2	310	11396	1
As-1	75	4.910	ug/L	0.217	4	9967	21036	0
Se	82	-0.011	ug/L	0.054	497	4	1	735
Se	78	0.084	ug/L	0.295	351	10138	10182	0
Mo	98	0.091	ug/L	0.004	4	31	488	3
Y	89		ug/L			399449	438387	0
Kr	83		ug/L			635	721	4
> In	115		ug/L			965468	987462	0
Ag	107	0.078	ug/L	0.001	0	54	965	0
Cd	111	1.386	ug/L	0.010	0	102	6746	1
Cd	114	1.357	ug/L	0.026	1	36	16494	1
Sb	121	0.025	ug/L	0.001	3	768	1146	1
Sb	123	0.024	ug/L	0.004	15	575	847	4
Ba	135	82.971	ug/L	0.542	0	23	352332	0
Ba	137	82.528	ug/L	0.796	0	42	607440	0
> Tb	159		ug/L			1098939	1106712	1
Tl	205	0.047	ug/L	0.001	3	811	2601	1
Pb	208	41.842	ug/L	0.579	1	507	2029214	0
Bi	209		ug/L			2742152	2741866	0
Th	232	0.559	ug/L	0.014	2	5672	32250	1
U	238	0.075	ug/L	0.000	0	50	3917	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 G SWN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:43:05

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1883495	0
> Be	9	0.233	ug/L	0.004	1	22	1176	2
C	13		ug/L			143235	161137	2
Cl	37		ug/L			4954439	5067446	1
> Sc	45		ug/L			1218098	1344041	1
V	51	16.832	ug/L	0.288	1	9170	454944	0
V-1	51	17.037	ug/L	0.240	1	105	445563	0
Cr	52	8.625	ug/L	0.281	3	27160	222833	1
Cr	53	9.024	ug/L	0.226	2	170	22180	1
Mn	55	167.880	ug/L	2.884	1	674	5102154	1
Co	59	3.530	ug/L	0.094	2	88	77601	1
> Ge	72		ug/L			652831	657279	1
Ni	60	8.021	ug/L	0.112	1	35	33792	0
Ni	62	8.223	ug/L	0.268	3	471	5321	2
Cu	63	11.609	ug/L	0.178	1	514	109156	1
Cu	65	11.844	ug/L	0.183	1	55	50164	2
Zn	66	25.253	ug/L	0.336	1	255	65797	1
Zn	67	29.186	ug/L	0.478	1	38	12638	0
Zn	68	27.205	ug/L	0.243	0	241	51229	0
As	75	2.335	ug/L	0.071	3	310	5566	2
As-1	75	2.253	ug/L	0.119	5	9967	15157	1
Se	82	-0.084	ug/L	0.028	32	4	-16	40
Se	78	-0.027	ug/L	0.178	655	10138	10188	0
Mo	98	0.121	ug/L	0.002	1	31	647	0
Y	89		ug/L			399449	510276	0
Kr	83		ug/L			635	848	1
> In	115		ug/L			965468	982504	2
Ag	107	0.092	ug/L	0.002	2	54	1129	1
Cd	111	0.152	ug/L	0.012	7	102	827	5
Cd	114	0.085	ug/L	0.003	3	36	1059	5
Sb	121	-0.035	ug/L	0.001	2	768	288	3
Sb	123	-0.035	ug/L	0.002	4	575	215	9
Ba	135	60.727	ug/L	1.625	2	23	256492	0
Ba	137	60.383	ug/L	1.992	3	42	442046	1
> Tb	159		ug/L			1098939	1116924	1
Tl	205	0.047	ug/L	0.000	0	811	2645	0
Pb	208	3.084	ug/L	0.030	0	507	151405	0
Bi	209		ug/L			2742152	2710477	0
Th	232	1.598	ug/L	0.027	1	5672	82351	0
U	238	0.281	ug/L	0.005	1	50	14599	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 H SWN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:47:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1879321	1
[Be	9	0.203	ug/L	0.012	5	22	1022	5
C	13		ug/L			143235	161850	4
Cl	37		ug/L			4954439	5165679	2
> Sc	45		ug/L			1218098	1333185	2
V	51	18.534	ug/L	0.591	3	9170	495762	1
V-1	51	18.751	ug/L	0.573	3	105	486306	1
Cr	52	9.658	ug/L	0.275	2	27160	243961	0
Cr	53	10.076	ug/L	0.148	1	170	24543	0
Mn	55	144.682	ug/L	2.294	1	674	4361302	0
Co	59	3.754	ug/L	0.111	2	88	81850	1
> Ge	72		ug/L			652831	640413	1
Ni	60	8.605	ug/L	0.176	2	35	35318	0
Ni	62	8.773	ug/L	0.116	1	471	5500	0
Cu	63	13.028	ug/L	0.279	2	514	119293	1
Cu	65	12.944	ug/L	0.197	1	55	53405	0
Zn	66	23.661	ug/L	1.111	4	255	60057	3
Zn	67	26.534	ug/L	1.006	3	38	11197	2
Zn	68	25.320	ug/L	1.020	4	241	46457	2
As	75	2.626	ug/L	0.093	3	310	6061	1
As-1	75	2.585	ug/L	0.161	6	9967	15503	0
Se	82	-0.010	ug/L	0.091	889	4	1	1115
Se	78	0.171	ug/L	0.286	167	10138	10052	0
Mo	98	0.148	ug/L	0.008	5	31	765	4
Y	89		ug/L			399449	500143	1
Kr	83		ug/L			635	805	6
> In	115		ug/L			965468	967077	0
Ag	107	0.096	ug/L	0.001	1	54	1162	0
Cd	111	0.112	ug/L	0.014	12	102	630	10
Cd	114	0.058	ug/L	0.001	2	36	721	1
Sb	121	-0.044	ug/L	0.001	2	768	164	10
Sb	123	-0.043	ug/L	0.001	2	575	122	10
Ba	135	52.344	ug/L	0.931	1	23	217681	1
Ba	137	52.484	ug/L	0.367	0	42	378367	1
> Tb	159		ug/L			1098939	1116768	0
Tl	205	0.051	ug/L	0.002	4	811	2773	3
Pb	208	2.944	ug/L	0.012	0	507	144569	0
Bi	209		ug/L			2742152	2702543	1
Th	232	1.917	ug/L	0.017	0	5672	97634	1
U	238	0.319	ug/L	0.002	0	50	16582	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:51:21

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1857808	1
[Be	9	50.736	ug/L	1.585	3	22	246864	1
C	13		ug/L			143235	149636	1
Cl	37		ug/L			4954439	5256289	1
> Sc	45		ug/L			1218098	1229489	1
V	51	48.180	ug/L	1.695	3	9170	1173743	1
V-1	51	48.461	ug/L	1.691	3	105	1158872	1
Cr	52	48.357	ug/L	1.785	3	27160	1016681	2
Cr	53	49.327	ug/L	1.623	3	170	110129	2
Mn	55	48.123	ug/L	2.374	4	674	1337949	3
Co	59	47.912	ug/L	1.002	2	88	962441	0
> Ge	72		ug/L			652831	620177	1
Ni	60	50.040	ug/L	1.413	2	35	198782	3
Ni	62	49.794	ug/L	0.288	0	471	28143	1
Cu	63	49.675	ug/L	0.308	0	514	439189	1
Cu	65	50.408	ug/L	0.753	1	55	201262	0
Zn	66	50.839	ug/L	1.509	2	255	124715	1
Zn	67	51.134	ug/L	0.677	1	38	20866	0
Zn	68	50.399	ug/L	1.459	2	241	89339	1
As	75	51.292	ug/L	0.639	1	310	109218	0
As-1	75	50.292	ug/L	0.857	1	9967	117391	0
Se	82	54.349	ug/L	0.567	1	4	12629	1
Se	78	50.835	ug/L	1.211	2	10138	40791	1
Mo	98	52.624	ug/L	1.811	3	31	252497	2
Y	89		ug/L			399449	405074	0
Kr	83		ug/L			635	720	3
> In	115		ug/L			965468	949019	1
Ag	107	55.377	ug/L	1.533	2	54	624479	2
Cd	111	50.998	ug/L	0.621	1	102	234940	0
Cd	114	49.810	ug/L	0.123	0	36	580489	1
Sb	121	50.106	ug/L	0.634	1	768	684269	0
Sb	123	50.675	ug/L	0.761	1	575	523852	1
Ba	135	49.249	ug/L	0.400	0	23	200991	0
Ba	137	48.391	ug/L	0.881	1	42	342302	0
> Tb	159		ug/L			1098939	1085965	0
Tl	205	46.346	ug/L	0.427	0	811	1740230	0
Pb	208	47.885	ug/L	0.112	0	507	2278891	0
Bi	209		ug/L			2742152	2617162	0
Th	232	50.985	ug/L	0.471	0	5672	2381985	1
U	238	51.861	ug/L	0.204	0	50	2610214	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 17:58:14

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1814603	1
Be	9	0.000	ug/L	0.002	985	22	24	31
C	13		ug/L			143235	153222	1
Cl	37		ug/L			4954439	5023383	1
> Sc	45		ug/L			1218098	1250041	0
V	51	-0.018	ug/L	0.006	29	9170	8956	0
V-1	51	-0.001	ug/L	0.002	275	105	94	38
Cr	52	-0.066	ug/L	0.018	27	27160	26500	0
Cr	53	-0.006	ug/L	0.006	101	170	160	8
Mn	55	0.003	ug/L	0.006	192	674	779	21
Co	59	0.001	ug/L	0.002	334	88	101	33
> Ge	72		ug/L			652831	621549	0
Ni	60	0.002	ug/L	0.002	82	35	43	19
Ni	62	-0.582	ug/L	0.010	1	471	124	4
Cu	63	-0.036	ug/L	0.001	1	514	170	3
Cu	65	-0.001	ug/L	0.001	126	55	49	10
Zn	66	-0.005	ug/L	0.034	655	255	229	35
Zn	67	-0.001	ug/L	0.039	4003	38	36	42
Zn	68	0.014	ug/L	0.030	212	241	254	20
As	75	0.022	ug/L	0.012	57	310	341	6
As-1	75	0.213	ug/L	0.061	28	9967	9948	0
Se	82	-0.060	ug/L	0.058	96	4	-9	138
Se	78	0.724	ug/L	0.200	27	10138	10097	0
Mo	98	0.004	ug/L	0.001	20	31	50	8
Y	89		ug/L			399449	386751	1
Kr	83		ug/L			635	692	5
> In	115		ug/L			965468	939524	1
Ag	107	-0.002	ug/L	0.001	44	54	35	22
Cd	111	-0.000	ug/L	0.003	1074	102	98	15
Cd	114	0.001	ug/L	0.002	163	36	49	45
Sb	121	0.008	ug/L	0.001	8	768	857	1
Sb	123	0.008	ug/L	0.003	39	575	646	5
Ba	135	0.002	ug/L	0.004	245	23	29	58
Ba	137	0.002	ug/L	0.003	169	42	55	42
> Tb	159		ug/L			1098939	1049530	1
Tl	205	-0.015	ug/L	0.002	11	811	226	26
Pb	208	0.001	ug/L	0.003	534	507	509	26
Bi	209		ug/L			2742152	2653822	0
Th	232	0.024	ug/L	0.013	56	5672	6489	9
U	238	0.002	ug/L	0.002	80	50	138	52

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 I SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:02:23

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1883229	0
[Be	9	0.189	ug/L	0.003	1	22	958	1
C	13		ug/L			143235	168676	3
Cl	37		ug/L			4954439	5034180	0
> Sc	45		ug/L			1218098	1308741	1
V	51	5.752	ug/L	0.177	3	9170	157846	1
V-1	51	5.859	ug/L	0.230	3	105	149235	2
Cr	52	5.892	ug/L	0.121	2	27160	157509	0
Cr	53	6.264	ug/L	0.275	4	170	15044	2
Mn	55	580.859	ug/L	5.141	0	674	17188007	0
Co	59	2.447	ug/L	0.034	1	88	52429	1
> Ge	72		ug/L			652831	656659	2
Ni	60	7.029	ug/L	0.192	2	35	29580	0
Ni	62	6.686	ug/L	0.275	4	471	4408	1
Cu	63	7.747	ug/L	0.320	4	514	72910	1
Cu	65	8.089	ug/L	0.141	1	55	34239	0
Zn	66	155.481	ug/L	1.380	0	255	403377	1
Zn	67	144.820	ug/L	5.993	4	38	62470	2
Zn	68	148.714	ug/L	3.459	2	241	278623	1
As	75	6.164	ug/L	0.259	4	310	14166	2
As-1	75	6.023	ug/L	0.356	5	9967	23700	1
Se	82	0.128	ug/L	0.034	26	4	36	23
Se	78	-0.012	ug/L	0.511	4360	10138	10184	0
Mo	98	0.215	ug/L	0.012	5	31	1122	4
Y	89		ug/L			399449	450788	0
Kr	83		ug/L			635	748	3
> In	115		ug/L			965468	993639	2
Ag	107	0.100	ug/L	0.003	3	54	1237	4
Cd	111	3.440	ug/L	0.033	0	102	16690	1
Cd	114	3.412	ug/L	0.074	2	36	41661	0
Sb	121	0.157	ug/L	0.008	4	768	3025	1
Sb	123	0.162	ug/L	0.017	10	575	2340	5
Ba	135	83.560	ug/L	2.896	3	23	356886	1
Ba	137	83.200	ug/L	2.555	3	42	615961	0
> Tb	159		ug/L			1098939	1106911	0
Tl	205	0.107	ug/L	0.005	4	811	4922	4
Pb	208	138.506	ug/L	1.755	1	507	6717386	0
Bi	209		ug/L			2742152	2760631	0
Th	232	0.814	ug/L	0.005	0	5672	44386	1
U	238	0.116	ug/L	0.002	2	50	5978	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 J SWN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:06:30

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1871310	0
[Be	9	0.570	ug/L	0.023	3	22	2819	3
C	13		ug/L			143235	167122	0
Cl	37		ug/L			4954439	5117510	1
> Sc	45		ug/L			1218098	1340609	1
V	51	18.696	ug/L	0.277	1	9170	502943	1
V-1	51	18.963	ug/L	0.349	1	105	494635	1
Cr	52	14.621	ug/L	0.230	1	27160	356081	0
Cr	53	15.385	ug/L	0.503	3	170	37580	1
Mn	55	661.679	ug/L	14.467	2	674	20053034	0
Co	59	7.854	ug/L	0.195	2	88	172110	1
> Ge	72		ug/L			652831	635479	0
Ni	60	31.300	ug/L	0.300	0	35	127402	1
Ni	62	31.822	ug/L	0.246	0	471	18596	1
Cu	63	22.129	ug/L	0.358	1	514	200768	2
Cu	65	22.374	ug/L	0.244	1	55	91570	0
Zn	66	188.033	ug/L	5.697	3	255	472110	3
Zn	67	180.888	ug/L	3.881	2	38	75541	1
Zn	68	183.111	ug/L	1.971	1	241	332059	1
As	75	10.292	ug/L	0.039	0	310	22700	1
As-1	75	10.256	ug/L	0.042	0	9967	32257	1
Se	82	0.191	ug/L	0.092	48	4	49	43
Se	78	0.843	ug/L	0.139	16	10138	10398	0
Mo	98	0.556	ug/L	0.030	5	31	2762	4
Y	89		ug/L			399449	579367	0
Kr	83		ug/L			635	944	5
> In	115		ug/L			965468	972160	1
Ag	107	0.517	ug/L	0.008	1	54	6022	0
Cd	111	2.848	ug/L	0.035	1	102	13537	1
Cd	114	2.649	ug/L	0.068	2	36	31652	0
Sb	121	0.052	ug/L	0.005	9	768	1502	3
Sb	123	0.055	ug/L	0.006	11	575	1161	3
Ba	135	111.594	ug/L	2.979	2	23	466380	0
Ba	137	111.663	ug/L	2.110	1	42	808995	0
> Tb	159		ug/L			1098939	1102494	1
Tl	205	0.136	ug/L	0.003	2	811	5997	0
Pb	208	77.454	ug/L	0.534	0	507	3741699	0
Bi	209		ug/L			2742152	2651474	0
Th	232	2.277	ug/L	0.043	1	5672	113430	0
U	238	0.556	ug/L	0.004	0	50	28453	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 J SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:10:37

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

DEZ
(use 50x)

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L					
Be	9	0.278	ug/L	0.013	4	1766731	1911897	0
C	13		ug/L			22	1417	4
Cl	37		ug/L			143235	161373	2
> Sc	45		ug/L			4954439	5111954	3
V	51	9.398	ug/L	0.305	3	1218098	1308574	0
V-1	51	9.611	ug/L	0.320	3	9170	251651	2
Cr	52	7.376	ug/L	0.036	0	105	244762	2
Cr	53	8.033	ug/L	0.097	1	27160	189820	1
Mn	55	340.705	ug/L	5.533	1	170	19246	1
Co	59	4.150	ug/L	0.070	1	674	10081425	1
> Ge	72		ug/L			88	88832	2
Ni	60	15.737	ug/L	0.620	3	652831	649085	2
Ni	62	15.609	ug/L	1.050	6	35	65409	2
Cu	63	10.984	ug/L	0.274	2	471	9546	4
Cu	65	10.959	ug/L	0.470	4	514	102021	2
Zn	66	93.358	ug/L	3.984	4	55	45818	2
Zn	67	90.377	ug/L	2.409	2	255	239428	2
Zn	68	93.012	ug/L	3.012	3	38	38560	0
As	75	5.080	ug/L	0.129	2	241	172324	1
As-1	75	5.019	ug/L	0.234	4	310	11597	0
Se	82	0.139	ug/L	0.054	38	9967	21177	0
Se	78	0.285	ug/L	0.368	129	4	38	34
Mo	98	0.273	ug/L	0.021	7	10138	10260	0
Y	89		ug/L			31	1402	6
Kr	83		ug/L			399449	499437	0
> In	115		ug/L			635	778	1
Ag	107	0.271	ug/L	0.011	4	965468	978181	0
Cd	111	1.438	ug/L	0.022	1	54	3209	3
Cd	114	1.327	ug/L	0.008	0	102	6928	0
Sb	121	-0.000	ug/L	0.005	3744	36	15973	0
Sb	123	0.002	ug/L	0.003	113	768	777	9
Ba	135	55.238	ug/L	1.044	1	575	606	3
Ba	137	55.030	ug/L	0.763	1	23	232353	1
Tb	159		ug/L			42	401243	0
Tl	205	0.057	ug/L	0.001	1	1098939	1106139	0
Pb	208	38.887	ug/L	0.214	0	811	2987	2
Bi	209		ug/L			507	1885092	0
Th	232	1.071	ug/L	0.008	0	2742152	2688290	0
U	238	0.276	ug/L	0.001	0	5672	56547	0
						50	14197	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:14:45

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1902743	1
[Be	9	0.149	ug/L	0.005	3	22	767	4
C	13		ug/L			143235	176942	2
Cl	37		ug/L			4954439	5269971	1
> Sc	45		ug/L			1218098	1385447	1
V	51	27.805	ug/L	0.555	1	9170	767888	1
V-1	51	28.034	ug/L	0.570	2	105	755660	1
Cr	52	21.744	ug/L	0.373	1	27160	532275	1
Cr	53	22.304	ug/L	0.586	2	170	56236	2
Mn	55	206.152	ug/L	2.310	1	674	6459131	2
Co	59	5.079	ug/L	0.043	0	88	115085	0
> Ge	72		ug/L			652831	648596	0
Ni	60	28.062	ug/L	0.531	1	35	116586	1
Ni	62	28.607	ug/L	0.739	2	471	17108	2
Cu	63	14.960	ug/L	0.260	1	514	138678	1
Cu	65	15.253	ug/L	0.426	2	55	63732	2
Zn	66	41.710	ug/L	0.066	0	255	107082	0
Zn	67	42.659	ug/L	1.039	2	38	18213	2
Zn	68	41.902	ug/L	0.581	1	241	77739	1
As	75	3.945	ug/L	0.069	1	310	9071	1
As-1	75	3.927	ug/L	0.050	1	9967	18716	0
Se	82	-0.012	ug/L	0.022	176	4	1	357
Se	78	0.316	ug/L	0.061	19	10138	10275	0
Mo	98	0.101	ug/L	0.003	3	31	537	3
Y	89		ug/L			399449	520724	0
Kr	83		ug/L			635	833	1
> In	115		ug/L			965468	973932	0
Ag	107	0.041	ug/L	0.002	4	54	525	5
Cd	111	0.156	ug/L	0.007	4	102	840	3
Cd	114	0.110	ug/L	0.004	3	36	1347	3
Sb	121	-0.037	ug/L	0.002	6	768	264	11
Sb	123	-0.035	ug/L	0.001	1	575	204	3
Ba	135	38.774	ug/L	0.376	0	23	162406	0
Ba	137	38.447	ug/L	0.409	1	42	279136	0
> Tb	159		ug/L			1098939	1111530	0
Tl	205	0.009	ug/L	0.000	4	811	1169	1
Pb	208	4.039	ug/L	0.018	0	507	197226	0
Bi	209		ug/L			2742152	2631875	0
Th	232	0.708	ug/L	0.007	1	5672	39511	0
U	238	0.185	ug/L	0.001	0	50	9590	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:18:52

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1890078	1
[Be	9	0.089	ug/L	0.003	2	22	465	4
C	13		ug/L			143235	183086	1
Cl	37		ug/L			4954439	5082048	1
> Sc	45		ug/L			1218098	1328647	1
V	51	13.555	ug/L	0.159	1	9170	364137	1
V-1	51	13.729	ug/L	0.067	0	105	355007	1
Cr	52	13.255	ug/L	0.512	3	27160	322594	1
Cr	53	13.842	ug/L	0.246	1	170	33533	1
Mn	55	178.050	ug/L	5.069	2	674	5348328	1
Co	59	2.928	ug/L	0.044	1	88	63664	2
> Ge	72		ug/L			652831	644088	0
Ni	60	13.253	ug/L	0.021	0	35	54695	0
Ni	62	13.156	ug/L	0.259	1	471	8064	1
Cu	63	12.630	ug/L	0.080	0	514	116349	0
Cu	65	12.729	ug/L	0.322	2	55	52829	2
Zn	66	64.345	ug/L	0.150	0	255	163911	0
Zn	67	62.810	ug/L	1.065	1	38	26615	2
Zn	68	64.348	ug/L	1.279	1	241	118421	1
As	75	2.934	ug/L	0.078	2	310	6777	2
As-1	75	2.957	ug/L	0.076	2	9967	16425	0
Se	82	0.149	ug/L	0.022	14	4	40	13
Se	78	0.444	ug/L	0.024	5	10138	10285	0
Mo	98	0.146	ug/L	0.004	3	31	759	2
Y	89		ug/L			399449	487968	2
Kr	83		ug/L			635	717	0
> In	115		ug/L			965468	969550	0
Ag	107	0.031	ug/L	0.001	4	54	416	3
Cd	111	0.215	ug/L	0.004	1	102	1116	1
Cd	114	0.188	ug/L	0.003	1	36	2269	2
Sb	121	-0.024	ug/L	0.003	12	768	443	8
Sb	123	-0.022	ug/L	0.002	8	575	343	5
Ba	135	49.183	ug/L	0.329	0	23	205072	0
Ba	137	48.459	ug/L	0.684	1	42	350235	1
> Tb	159		ug/L			1098939	1099741	0
Tl	205	0.006	ug/L	0.001	18	811	1049	4
Pb	208	9.966	ug/L	0.037	0	507	480726	0
Bi	209		ug/L			2742152	2683274	1
Th	232	0.275	ug/L	0.002	0	5672	18635	0
U	238	0.165	ug/L	0.004	2	50	8435	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:22:59

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1896820	2
[Be	9	0.088	ug/L	0.005	5	22	462	2
C	13		ug/L			143235	179974	0
Cl	37		ug/L			4954439	5072141	2
> Sc	45		ug/L			1218098	1333821	2
V	51	13.574	ug/L	0.234	1	9170	366019	1
V-1	51	13.746	ug/L	0.204	1	105	356746	1
Cr	52	13.038	ug/L	0.373	2	27160	319071	1
Cr	53	13.608	ug/L	0.349	2	170	33089	0
Mn	55	189.689	ug/L	3.267	1	674	5720037	1
Co	59	2.770	ug/L	0.138	4	88	60417	2
> Ge	72		ug/L			652831	650870	0
Ni	60	13.233	ug/L	0.140	1	35	55190	1
Ni	62	12.730	ug/L	0.488	3	471	7900	3
Cu	63	12.447	ug/L	0.156	1	514	115867	0
Cu	65	12.656	ug/L	0.291	2	55	53076	1
Zn	66	48.276	ug/L	0.801	1	255	124329	1
Zn	67	46.648	ug/L	0.313	0	38	19982	0
Zn	68	47.631	ug/L	0.679	1	241	88641	0
As	75	2.801	ug/L	0.002	0	310	6551	0
As-1	75	2.775	ug/L	0.054	1	9967	16187	0
Se	82	0.144	ug/L	0.021	14	4	39	12
Se	78	0.307	ug/L	0.182	59	10138	10305	0
Mo	98	0.156	ug/L	0.008	5	31	815	4
Y	89		ug/L			399449	484312	1
Kr	83		ug/L			635	760	2
> In	115		ug/L			965468	974537	1
Ag	107	0.036	ug/L	0.002	4	54	475	3
Cd	111	0.225	ug/L	0.004	1	102	1169	1
Cd	114	0.192	ug/L	0.003	1	36	2334	1
Sb	121	-0.033	ug/L	0.001	2	768	315	3
Sb	123	-0.031	ug/L	0.002	5	575	250	8
Ba	135	35.420	ug/L	0.315	0	23	148444	0
Ba	137	35.165	ug/L	0.588	1	42	255442	0
> Tb	159		ug/L			1098939	1106526	0
Tl	205	0.009	ug/L	0.000	4	811	1152	1
Pb	208	8.411	ug/L	0.108	1	507	408274	0
Bi	209		ug/L			2742152	2701941	0
Th	232	0.298	ug/L	0.003	1	5672	19876	0
U	238	0.188	ug/L	0.002	1	50	9697	1

11-20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82F SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:27:07

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1862917	1
[Be	9	0.101	ug/L	0.003	3	22	517	4
C	13		ug/L			143235	179772	2
Cl	37		ug/L			4954439	4996435	1
> Sc	45		ug/L			1218098	1327383	1
V	51	15.107	ug/L	0.536	3	9170	404178	1
V-1	51	15.276	ug/L	0.467	3	105	394478	1
Cr	52	14.607	ug/L	0.374	2	27160	352198	0
Cr	53	15.168	ug/L	0.130	0	170	36696	1
Mn	55	193.469	ug/L	3.426	1	674	5806189	0
Co	59	3.239	ug/L	0.128	3	88	70322	2
> Ge	72		ug/L			652831	642347	2
Ni	60	15.283	ug/L	0.260	1	35	62885	0
Ni	62	14.891	ug/L	0.452	3	471	9038	1
Cu	63	9.756	ug/L	0.340	3	514	89699	1
Cu	65	10.072	ug/L	0.249	2	55	41686	0
Zn	66	45.167	ug/L	1.854	4	255	114751	1
Zn	67	44.398	ug/L	1.313	2	38	18766	2
Zn	68	43.878	ug/L	0.951	2	241	80584	0
As	75	3.314	ug/L	0.072	2	310	7593	0
As-1	75	3.359	ug/L	0.161	4	9967	17269	0
Se	82	u 0.118	ug/L	0.018	15	4	32	15
Se	78	0.550	ug/L	0.326	59	10138	10321	0
Mo	98	0.159	ug/L	0.015	9	31	821	7
Y	89		ug/L			399449	481611	0
Kr	83		ug/L			635	753	1
> In	115		ug/L			965468	970999	0
Ag	107	0.034	ug/L	0.001	1	54	449	2
Cd	111	0.175	ug/L	0.007	4	102	929	3
Cd	114	0.158	ug/L	0.002	1	36	1921	1
Sb	121	-0.021	ug/L	0.002	8	768	474	5
Sb	123	-0.023	ug/L	0.000	1	575	335	1
Ba	135	33.070	ug/L	0.548	1	23	138100	1
Ba	137	32.818	ug/L	0.301	0	42	237555	0
> Tb	159		ug/L			1098939	1103469	0
Tl	205	0.010	ug/L	0.001	6	811	1194	2
Pb	208	7.527	ug/L	0.039	0	507	364406	0
Bi	209		ug/L			2742152	2704105	0
Th	232	0.264	ug/L	0.005	2	5672	18209	1
U	238	0.190	ug/L	0.001	0	50	9763	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 G SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:31:14

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1867259	0
Be	9	0.095	ug/L	0.005	4	22	490	4
C	13		ug/L			143235	174918	1
Cl	37		ug/L			4954439	5032012	1
> Sc	45		ug/L			1218098	1327043	0
V	51	15.090	ug/L	0.188	1	9170	403801	1
V-1	51	15.347	ug/L	0.265	1	105	396377	2
Cr	52	14.945	ug/L	0.203	1	27160	359669	0
Cr	53	15.824	ug/L	0.332	2	170	38268	1
Mn	55	187.955	ug/L	2.663	1	674	5640268	1
Co	59	3.369	ug/L	0.066	1	88	73144	1
> Ge	72		ug/L			652831	639845	3
Ni	60	15.553	ug/L	0.606	3	35	63707	0
Ni	62	15.374	ug/L	0.690	4	471	9275	1
Cu	63	10.277	ug/L	0.464	4	514	94052	1
Cu	65	10.586	ug/L	0.490	4	55	43611	1
Zn	66	47.179	ug/L	1.478	3	255	119378	0
Zn	67	44.973	ug/L	0.683	1	38	18935	2
Zn	68	46.397	ug/L	2.013	4	241	84820	1
As	75	3.272	ug/L	0.073	2	310	7470	1
As-1	75	3.318	ug/L	0.248	7	9967	17104	0
Se	82	0.096	ug/L	0.008	8	4	27	10
Se	78	0.579	ug/L	0.646	111	10138	10294	0
Mo	98	0.157	ug/L	0.011	7	31	808	5
Y	89		ug/L			399449	484181	3
Kr	83		ug/L			635	789	0
> In	115		ug/L			965468	971195	2
Ag	107	0.034	ug/L	0.001	2	54	449	0
Cd	111	0.189	ug/L	0.006	3	102	992	1
Cd	114	0.163	ug/L	0.001	0	36	1976	2
Sb	121	-0.024	ug/L	0.001	5	768	441	2
Sb	123	-0.023	ug/L	0.003	12	575	336	8
Ba	135	35.418	ug/L	0.818	2	23	147891	1
Ba	137	34.768	ug/L	0.797	2	42	251646	0
> Tb	159		ug/L			1098939	1109809	1
Tl	205	0.009	ug/L	0.002	18	811	1168	4
Pb	208	7.871	ug/L	0.060	0	507	383254	0
Bi	209		ug/L			2742152	2712740	0
Th	232	0.297	ug/L	0.009	3	5672	19869	1
U	238	0.187	ug/L	0.004	2	50	9656	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 H SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:36:26

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1890019	2
Be	9	0.101	ug/L	0.005	4	22	524	3
C	13		ug/L			143235	179492	1
Cl	37		ug/L			4954439	5088207	3
> Sc	45		ug/L			1218098	1343240	1
V	51	16.671	ug/L	0.267	1	9170	450424	0
V-1	51	16.973	ug/L	0.229	1	105	443635	0
Cr	52	15.705	ug/L	0.495	3	27160	380988	2
Cr	53	16.706	ug/L	0.296	1	170	40880	0
Mn	55	195.016	ug/L	2.723	1	674	5923318	1
Co	59	3.694	ug/L	0.073	1	88	81157	1
> Ge	72		ug/L			652831	641817	0
Ni	60	17.520	ug/L	0.299	1	35	72036	1
Ni	62	17.449	ug/L	0.395	2	471	10506	1
Cu	63	11.152	ug/L	0.260	2	514	102420	1
Cu	65	11.544	ug/L	0.152	1	55	47744	0
Zn	66	49.613	ug/L	1.723	3	255	125979	2
Zn	67	50.533	ug/L	0.890	1	38	21341	0
Zn	68	49.253	ug/L	1.903	3	241	90377	3
As	75	3.365	ug/L	0.032	0	310	7699	0
As-1	75	3.387	ug/L	0.050	1	9967	17321	0
Se	82	0.118	ug/L	0.082	69	4	32	60
Se	78	0.507	ug/L	0.104	20	10138	10288	0
Mo	98	0.159	ug/L	0.011	6	31	822	5
Y	89		ug/L			399449	489381	1
Kr	83		ug/L			635	780	7
> In	115		ug/L			965468	960858	0
Ag	107	0.037	ug/L	0.001	3	54	480	2
Cd	111	0.219	ug/L	0.008	3	102	1123	3
Cd	114	0.188	ug/L	0.002	1	36	2249	0
Sb	121	-0.030	ug/L	0.002	6	768	355	6
Sb	123	-0.030	ug/L	0.002	6	575	255	8
Ba	135	36.722	ug/L	0.248	0	23	151745	0
Ba	137	36.571	ug/L	0.174	0	42	261961	0
> Tb	159		ug/L			1098939	1112991	1
Tl	205	0.013	ug/L	0.001	7	811	1308	1
Pb	208	8.247	ug/L	0.124	1	507	402626	0
Bi	209		ug/L			2742152	2690285	0
Th	232	0.360	ug/L	0.009	2	5672	22955	0
U	238	0.201	ug/L	0.002	1	50	10444	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 I SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:40:33

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1938536	0
[Be	9	0.097	ug/L	0.004	4	22	518	4
C	13		ug/L			143235	180240	2
Cl	37		ug/L			4954439	5082636	4
> Sc	45		ug/L			1218098	1366892	1
V	51	15.317	ug/L	0.391	2	9170	421931	1
V-1	51	15.485	ug/L	0.246	1	105	411876	0
Cr	52	14.576	ug/L	0.659	4	27160	361946	2
Cr	53	15.126	ug/L	0.308	2	170	37684	1
Mn	55	175.810	ug/L	4.852	2	674	5433252	1
Co	59	3.176	ug/L	0.074	2	88	71024	1
> Ge	72		ug/L			652831	644620	1
Ni	60	15.755	ug/L	0.260	1	35	65064	0
Ni	62	15.543	ug/L	0.516	3	471	9451	3
Cu	63	26.855	ug/L	0.985	3	514	246961	2
Cu	65	27.012	ug/L	0.231	0	55	112132	0
Zn	66	49.052	ug/L	1.181	2	255	125098	1
Zn	67	47.653	ug/L	0.103	0	38	20217	0
Zn	68	48.288	ug/L	0.991	2	241	88992	1
As	75	3.394	ug/L	0.015	0	310	7797	0
As-1	75	3.437	ug/L	0.121	3	9967	17507	0
Se	82	0.125	ug/L	0.050	39	4	34	33
Se	78	0.594	ug/L	0.380	64	10138	10388	1
Mo	98	0.156	ug/L	0.009	5	31	809	6
Y	89		ug/L			399449	480715	3
Kr	83		ug/L			635	788	5
> In	115		ug/L			965468	971928	1
Ag	107	0.042	ug/L	0.001	2	54	543	3
Cd	111	0.204	ug/L	0.016	8	102	1065	6
Cd	114	0.175	ug/L	0.004	2	36	2122	1
Sb	121	-0.036	ug/L	0.001	4	768	276	6
Sb	123	-0.036	ug/L	0.001	2	575	197	3
Ba	135	36.103	ug/L	0.986	2	23	150880	1
Ba	137	35.953	ug/L	0.351	0	42	260486	0
> Tb	159		ug/L			1098939	1105896	1
Tl	205	0.011	ug/L	0.001	6	811	1221	1
Pb	208	7.997	ug/L	0.063	0	507	387958	0
Bi	209		ug/L			2742152	2692413	0
Th	232	0.352	ug/L	0.005	1	5672	22410	1
U	238	0.202	ug/L	0.002	1	50	10422	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:44:42

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1839859	0
[Be	9	51.950	ug/L	0.152	0	22	250414	0
C	13		ug/L			143235	149502	0
Cl	37		ug/L			4954439	5278112	2
> Sc	45		ug/L			1218098	1269225	1
V	51	46.447	ug/L	1.804	3	9170	1168469	2
V-1	51	46.838	ug/L	2.026	4	105	1156316	3
Cr	52	46.973	ug/L	0.819	1	27160	1020557	1
Cr	53	48.334	ug/L	1.330	2	170	111436	3
Mn	55	48.297	ug/L	1.237	2	674	1386519	1
Co	59	46.255	ug/L	1.400	3	88	959549	3
> Ge	72		ug/L			652831	618210	2
Ni	60	52.310	ug/L	1.817	3	35	207008	1
Ni	62	50.831	ug/L	1.354	2	471	28618	0
Cu	63	51.023	ug/L	1.129	2	514	449535	1
Cu	65	50.265	ug/L	1.837	3	55	199970	1
Zn	66	52.234	ug/L	1.424	2	255	127718	1
Zn	67	51.485	ug/L	1.988	3	38	20932	1
Zn	68	51.664	ug/L	1.537	2	241	91266	0
As	75	51.920	ug/L	0.931	1	310	110186	1
As-1	75	51.175	ug/L	1.038	2	9967	118891	0
Se	82	54.857	ug/L	1.330	2	4	12702	0
Se	78	52.190	ug/L	1.806	3	10138	41477	0
Mo	98	53.552	ug/L	0.877	1	31	256136	0
Y	89		ug/L			399449	403586	1
Kr	83		ug/L			635	684	2
> In	115		ug/L			965468	943285	0
Ag	107	55.232	ug/L	2.940	5	54	619047	4
Cd	111	52.006	ug/L	0.382	0	102	238151	0
Cd	114	51.017	ug/L	0.720	1	36	590949	0
Sb	121	50.465	ug/L	0.389	0	768	685054	1
Sb	123	51.269	ug/L	0.681	1	575	526804	0
Ba	135	49.494	ug/L	0.473	0	23	200790	1
Ba	137	49.022	ug/L	0.834	1	42	344701	1
> Tb	159		ug/L			1098939	1076997	1
Tl	205	47.031	ug/L	0.438	0	811	1751214	0
Pb	208	48.229	ug/L	0.310	0	507	2276164	0
Bi	209		ug/L			2742152	2610553	1
Th	232	51.895	ug/L	0.822	1	5672	2403995	0
U	238	52.383	ug/L	0.491	0	50	2614518	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:51:35

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1828563	1
[Be	9	-0.002	ug/L	0.001	56	22	14	31
C	13		ug/L			143235	153282	1
Cl	37		ug/L			4954439	5045838	3
> Sc	45		ug/L			1218098	1263057	2
V	51	-0.016	ug/L	0.015	98	9170	9111	2
V-1	51	-0.002	ug/L	0.000	7	105	55	10
Cr	52	-0.058	ug/L	0.055	94	27160	26928	2
Cr	53	-0.013	ug/L	0.003	22	170	147	1
Mn	55	-0.003	ug/L	0.000	5	674	601	2
Co	59	-0.000	ug/L	0.000	137	88	85	8
> Ge	72		ug/L			652831	628275	2
Ni	60	0.003	ug/L	0.001	36	35	47	8
Ni	62	-0.634	ug/L	0.015	2	471	96	9
Cu	63	-0.041	ug/L	0.002	4	514	132	13
Cu	65	-0.003	ug/L	0.002	84	55	41	22
Zn	66	-0.037	ug/L	0.003	9	255	152	3
Zn	67	-0.026	ug/L	0.014	52	38	26	19
Zn	68	-0.024	ug/L	0.010	39	241	188	10
As	75	0.018	ug/L	0.023	130	310	337	15
As-1	75	0.230	ug/L	0.076	33	9967	10089	0
Se	82	-0.031	ug/L	0.027	88	4	-2	219
Se	78	0.795	ug/L	0.294	36	10138	10248	0
Mo	98	0.004	ug/L	0.001	39	31	48	12
Y	89		ug/L			399449	395908	0
Kr	83		ug/L			635	679	5
> In	115		ug/L			965468	934852	0
Ag	107	-0.002	ug/L	0.000	16	54	26	15
Cd	111	-0.003	ug/L	0.001	24	102	84	3
Cd	114	-0.000	ug/L	0.000	748	36	34	14
Sb	121	0.010	ug/L	0.006	57	768	876	7
Sb	123	0.008	ug/L	0.007	88	575	639	10
Ba	135	-0.001	ug/L	0.001	51	23	17	14
Ba	137	-0.002	ug/L	0.000	12	42	27	5
> Tb	159		ug/L			1098939	1042590	0
Tl	205	-0.018	ug/L	0.001	3	811	121	16
Pb	208	-0.003	ug/L	0.000	12	507	348	5
Bi	209		ug/L			2742152	2662470	0
Th	232	0.013	ug/L	0.014	104	5672	5978	10
U	238	0.001	ug/L	0.000	11	50	98	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 MB1 SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:55:43

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Dil

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1887239	1
> Be	9	-0.001	ug/L	0.002	277	22	21	39
C	13		ug/L			143235	156402	0
Cl	37		ug/L			4954439	4993190	1
> Sc	45		ug/L			1218098	1261440	1
V	51	-0.011	ug/L	0.006	51	9170	9226	2
V-1	51	0.000	ug/L	0.002	1417	105	113	42
Cr	52	-0.035	ug/L	0.023	66	27160	27387	2
Cr	53	0.002	ug/L	0.005	278	170	180	6
Mn	55	0.057	ug/L	0.012	21	674	2329	15
Co	59	0.000	ug/L	0.001	721	88	94	21
> Ge	72		ug/L			652831	626062	0
Ni	60	0.002	ug/L	0.003	138	35	42	28
Ni	62	-0.625	ug/L	0.018	2	471	101	10
Cu	63	0.016	ug/L	0.005	28	514	636	6
Cu	65	0.056	ug/L	0.005	9	55	280	7
Zn	66	0.238	ug/L	0.016	6	255	832	4
Zn	67	0.241	ug/L	0.059	24	38	136	17
Zn	68	0.233	ug/L	0.009	3	241	646	2
As	75	0.004	ug/L	0.007	158	310	306	5
As-1	75	0.249	ug/L	0.011	4	9967	10098	0
Se	82	-0.094	ug/L	0.019	19	4	-17	24
Se	78	0.837	ug/L	0.041	4	10138	10240	0
Mo	98	-0.000	ug/L	0.001	330	31	28	19
Y	89		ug/L			399449	396241	1
Kr	83		ug/L			635	667	3
> In	115		ug/L			965468	948995	0
Ag	107	-0.002	ug/L	0.001	32	54	27	31
Cd	111	-0.004	ug/L	0.002	48	102	81	11
Cd	114	0.001	ug/L	0.001	63	36	45	13
Sb	121	-0.033	ug/L	0.002	5	768	307	8
Sb	123	-0.031	ug/L	0.003	10	575	249	12
Ba	135	0.017	ug/L	0.004	22	23	91	16
Ba	137	0.016	ug/L	0.003	19	42	158	14
> Tb	159		ug/L			1098939	1049987	0
Tl	205	-0.015	ug/L	0.001	3	811	230	8
Pb	208	0.009	ug/L	0.002	18	507	887	8
Bi	209		ug/L			2742152	2655906	1
Th	232	-0.047	ug/L	0.003	7	5672	3294	4
U	238	0.000	ug/L	0.001	221	50	62	50

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 MB1SPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 18:59:51

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Del

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1841689	1
Be	9	26.022	ug/L	0.616	2	22	125563	2
C	13		ug/L			143235	159388	2
Cl	37		ug/L			4954439	5047805	3
> Sc	45		ug/L			1218098	1232390	1
V	51	24.573	ug/L	0.251	1	9170	604845	1
V-1	51	24.811	ug/L	0.322	1	105	595002	1
Cr	52	25.193	ug/L	0.073	0	27160	544248	1
Cr	53	26.031	ug/L	0.193	0	170	58352	1
Mn	55	25.233	ug/L	0.045	0	674	703809	0
Co	59	25.261	ug/L	0.524	2	88	508781	2
> Ge	72		ug/L			652831	629083	1
Ni	60	26.611	ug/L	0.534	2	35	107208	0
Ni	62	25.864	ug/L	0.084	0	471	15046	1
Cu	63	27.021	ug/L	0.028	0	514	242554	1
Cu	65	27.482	ug/L	0.964	3	55	111301	2
Zn	66	85.440	ug/L	2.167	2	255	212435	1
Zn	67	78.423	ug/L	2.157	2	38	32437	1
Zn	68	83.147	ug/L	0.805	0	241	149384	1
As	75	26.728	ug/L	0.148	0	310	57880	1
As-1	75	25.917	ug/L	0.531	2	9967	66013	0
Se	82	87.958	ug/L	0.107	0	4	20730	1
Se	78	82.900	ug/L	1.819	2	10138	61309	0
Mo	98	26.027	ug/L	0.372	1	31	126728	2
Y	89		ug/L			399449	403619	0
Kr	83		ug/L			635	699	3
> In	115		ug/L			965468	953002	1
Ag	107	28.366	ug/L	0.331	1	54	321294	2
Cd	111	26.018	ug/L	0.319	1	102	120412	1
Cd	114	25.532	ug/L	0.150	0	36	298815	0
Sb	121	25.329	ug/L	0.446	1	768	347730	1
Sb	123	25.302	ug/L	0.425	1	575	262934	0
Ba	135	25.078	ug/L	0.602	2	23	102786	2
Ba	137	25.246	ug/L	0.094	0	42	179371	0
> Tb	159		ug/L			1098939	1051581	1
Tl	205	25.257	ug/L	0.192	0	811	918628	0
Pb	208	25.999	ug/L	0.219	0	507	1198314	1
Bi	209		ug/L			2742152	2675661	0
Th	232	23.510	ug/L	0.151	0	5672	1066481	1
U	238	23.939	ug/L	0.143	0	50	1166719	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 A-L SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:03:58

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

RR Ag, Pb, Zn

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1926239	0
[Be	9	<i>W</i> 0.129	ug/L	0.005	3	22	675	2
C	13		ug/L			143235	164329	1
Cl	37		ug/L			4954439	5096261	1
> Sc	45		ug/L			1218098	1313009	1
V	51	10.015	ug/L	0.204	2	9170	268508	2
V-1	51	10.143	ug/L	0.206	2	105	259241	2
Cr	52	6.764	ug/L	0.148	2	27160	177093	1
Cr	53	7.083	ug/L	0.214	3	170	17048	2
Mn	55	145.206	ug/L	2.811	1	674	4311189	1
Co	59	1.847	ug/L	0.017	0	88	39732	0
> Ge	72		ug/L			652831	650246	1
Ni	60	4.570	ug/L	0.073	1	35	19063	1
Ni	62	4.293	ug/L	0.110	2	471	2972	1
Cu	63	6.467	ug/L	0.191	2	514	60382	1
Cu	65	6.490	ug/L	0.104	1	55	27219	1
Zn	66	58.988	ug/L	0.951	1	255	151712	1
Zn	67	56.155	ug/L	0.823	1	38	24023	1
Zn	68	57.641	ug/L	1.177	2	241	107106	1
As	75	4.487	ug/L	0.168	3	310	10298	2
As-1	75	4.419	ug/L	0.197	4	9967	19869	1
Se	82	0.007	ug/L	0.046	683	4	6	184
Se	78	<i>W</i> 0.038	ug/L	0.155	407	10138	10122	0
Mo	98	0.102	ug/L	0.005	4	31	546	3
Y	89		ug/L			399449	457635	2
Kr	83		ug/L			635	718	3
> In	115		ug/L			965468	978243	0
Ag	107	0.062	ug/L	0.002	3	54	777	3
Cd	111	1.388	ug/L	0.011	0	102	6692	0
Cd	114	1.349	ug/L	0.035	2	36	16234	1
Sb	121	0.042	ug/L	0.002	4	768	1363	2
Sb	123	<i>W</i> 0.044	ug/L	0.004	7	575	1055	4
Ba	135	39.542	ug/L	0.409	1	23	166348	0
Ba	137	39.290	ug/L	0.643	1	42	286501	0
> Tb	159		ug/L			1098939	1094731	0
Tl	205	<i>W</i> 0.087	ug/L	0.001	0	811	4111	0
Pb	208	108.841	ug/L	0.178	0	507	5221036	0
Bi	209		ug/L			2742152	2724289	0
Th	232	1.026	ug/L	0.019	1	5672	53876	1
U	238	0.161	ug/L	0.003	1	50	8242	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:08:06

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

RPLAs Pb Zn

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1926486	2
Be	9	0.678	ug/L	0.017	2	22	3445	0
C	13		ug/L			143235	203136	0
Cl	37		ug/L			4954439	5248033	2
> Sc	45		ug/L			1218098	1431840	0
V	51	49.013	ug/L	0.579	1	9170	1390906	1
V-1	51	49.715	ug/L	0.677	1	105	1385048	1
Cr	52	32.558	ug/L	0.238	0	27160	807837	0
Cr	53	34.354	ug/L	0.233	0	170	89412	0
Mn	55	691.879	ug/L	9.338	1	674	22400355	1
Co	59	9.018	ug/L	0.064	0	88	211108	0
> Ge	72		ug/L			652831	643189	0
Ni	60	23.689	ug/L	0.576	2	35	97590	1
Ni	62	25.953	ug/L	0.269	1	471	15434	0
Cu	63	33.683	ug/L	0.279	0	514	309017	1
Cu	65	34.239	ug/L	0.788	2	55	141795	1
Zn	66	296.768	ug/L	2.118	0	255	753996	0
Zn	67	278.003	ug/L	5.175	1	38	117504	2
Zn	68	291.008	ug/L	5.975	2	241	533959	1
As	75	23.257	ug/L	0.174	0	310	51533	1
As-1	75	22.992	ug/L	0.196	0	9967	60997	1
Se	82	<i>w</i> -0.052	ug/L	0.077	148	4	-7	233
Se	78	0.588	ug/L	0.170	28	10138	10362	0
Mo	98	0.556	ug/L	0.009	1	31	2797	1
Y	89		ug/L			399449	607323	0
Kr	83		ug/L			635	1202	4
> In	115		ug/L			965468	1026433	0
Ag	107	0.303	ug/L	0.005	1	54	3750	1
Cd	111	6.707	ug/L	0.056	0	102	33515	0
Cd	114	6.554	ug/L	0.031	0	36	82643	0
Sb	121	0.299	ug/L	0.002	0	768	5233	1
Sb	123	0.300	ug/L	0.005	1	575	3961	0
Ba	135	200.920	ug/L	1.576	0	23	886822	0
Ba	137	199.608	ug/L	0.543	0	42	1527183	0
> Tb	159		ug/L			1098939	1109878	0
Tl	205	0.502	ug/L	0.008	1	811	20078	1
Pb	208	578.089	ug/L	4.116	0	507	28112167	0
Bi	209		ug/L			2742152	2603936	0
Th	232	4.571	ug/L	0.032	0	5672	223483	0
U	238	0.830	ug/L	0.007	0	50	42751	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 ADUP SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:12:13

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

RR Ag Pb Zn

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1910482	2
Be	9	0.648	ug/L	0.005	0	22	3266	2
C	13		ug/L			143235	200744	1
Cl	37		ug/L			4954439	5188981	0
> Sc	45		ug/L			1218098	1409485	0
V	51	52.035	ug/L	0.787	1	9170	1452895	1
V-1	51	52.816	ug/L	0.840	1	105	1448392	1
Cr	52	31.418	ug/L	0.268	0	27160	768449	0
Cr	53	33.331	ug/L	0.441	1	170	85394	0
Mn	55	676.770	ug/L	21.520	3	674	21565246	2
Co	59	9.321	ug/L	0.156	1	88	214804	2
> Ge	72		ug/L			652831	638997	1
Ni	60	24.455	ug/L	0.218	0	35	100096	0
Ni	62	25.891	ug/L	0.438	1	471	15298	1
Cu	63	33.197	ug/L	0.606	1	514	302524	0
Cu	65	34.345	ug/L	0.736	2	55	141294	0
Zn	66	294.520	ug/L	5.786	1	255	743288	0
Zn	67	281.448	ug/L	3.167	1	38	118180	1
Zn	68	289.579	ug/L	4.955	1	241	527840	1
As	75	23.299	ug/L	0.505	2	310	51278	1
As-1	75	23.059	ug/L	0.557	2	9967	60737	0
Se	82	-0.094	ug/L	0.038	39	4	-18	51
Se	78	0.619	ug/L	0.341	54	10138	10312	0
Mo	98	0.581	ug/L	0.013	2	31	2901	1
Y	89		ug/L			399449	599800	1
Kr	83		ug/L			635	1179	3
> In	115		ug/L			965468	1019248	0
Ag	107	0.315	ug/L	0.021	6	54	3869	5
Cd	111	6.389	ug/L	0.031	0	102	31707	0
Cd	114	6.256	ug/L	0.110	1	36	78338	1
Sb	121	0.309	ug/L	0.004	1	768	5344	0
Sb	123	0.313	ug/L	0.005	1	575	4079	1
Ba	135	192.034	ug/L	0.522	0	23	841681	0
Ba	137	190.872	ug/L	2.569	1	42	1450111	1
> Tb	159		ug/L			1098939	1097861	0
Tl	205	0.508	ug/L	0.001	0	811	20067	0
Pb	208	563.244	ug/L	1.395	0	507	27093544	0
Bi	209		ug/L			2742152	2598295	0
Th	232	7.140	ug/L	0.045	0	5672	342077	0
U	238	1.468	ug/L	0.023	1	50	74758	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 ASPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:16:21

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

PR Ag Pb Zn

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1906934	1
[Be	9	27.352	ug/L	0.775	2	22	136628	1
C	13		ug/L			143235	192634	1
Cl	37		ug/L			4954439	5230201	3
> Sc	45		ug/L			1218098	1424954	1
V	51	74.392	ug/L	3.775	5	9170	2095061	4
V-1	51	75.198	ug/L	3.576	4	105	2084531	4
Cr	52	51.987	ug/L	1.087	2	27160	1264594	1
Cr	53	53.922	ug/L	1.193	2	170	139531	1
Mn	55	720.219	ug/L	7.644	1	674	23205095	0
Co	59	31.360	ug/L	0.623	1	88	730220	1
> Ge	72		ug/L			652831	633359	1
Ni	60	51.445	ug/L	1.303	2	35	208643	1
Ni	62	54.083	ug/L	1.590	2	471	31172	2
Cu	63	61.010	ug/L	0.527	0	514	550737	1
Cu	65	60.993	ug/L	1.951	3	55	248659	2
Zn	66	394.792	ug/L	8.761	2	255	987549	1
Zn	67	374.651	ug/L	3.197	0	38	155912	1
Zn	68	392.168	ug/L	4.597	1	241	708605	2
As	75	51.238	ug/L	1.298	2	310	111412	1
As-1	75	50.030	ug/L	0.857	1	9967	119313	0
Se	82	85.504	ug/L	1.973	2	4	20285	1
Se	78	80.656	ug/L	0.633	0	10138	60332	0
Mo	98	24.399	ug/L	0.514	2	31	119587	1
Y	89		ug/L			399449	593908	0
Kr	83		ug/L			635	1186	2
> In	115		ug/L			965468	1027107	0
Ag	107	23.043	ug/L	0.272	1	54	281300	1
Cd	111	30.951	ug/L	0.276	0	102	154372	1
Cd	114	31.097	ug/L	0.124	0	36	392239	0
Sb	121	1.911	ug/L	0.010	0	768	29027	0
Sb	123	1.929	ug/L	0.011	0	575	22174	0
Ba	135	224.481	ug/L	1.200	0	23	991477	0
Ba	137	223.659	ug/L	2.113	0	42	1712294	0
Tb	159		ug/L			1098939	1099367	0
Tl	205	23.969	ug/L	0.333	1	811	911469	0
Pb	208	633.145	ug/L	4.477	0	507	30496814	0
Bi	209		ug/L			2742152	2610277	0
Th	232	22.964	ug/L	0.319	1	5672	1089141	0
U	238	24.476	ug/L	0.353	1	50	1247059	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 APOST SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:20:28

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1976047	1
Be	9	26.450	ug/L	0.402	1	22	136941	1
C	13		ug/L			143235	201087	1
Cl	37		ug/L			4954439	5278858	4
> Sc	45		ug/L			1218098	1434206	1
V	51	76.540	ug/L	1.445	1	9170	2169251	0
V-1	51	77.223	ug/L	1.248	1	105	2154648	0
Cr	52	54.916	ug/L	0.485	0	27160	1342832	1
Cr	53	56.457	ug/L	0.717	1	170	147070	2
Mn	55	724.403	ug/L	0.851	0	674	23492221	1
Co	59	30.279	ug/L	0.169	0	88	709719	1
> Ge	72		ug/L			652831	650298	1
Ni	60	49.326	ug/L	0.807	1	35	205454	2
Ni	62	51.425	ug/L	0.918	1	471	30459	1
Cu	63	58.586	ug/L	0.788	1	514	542984	1
Cu	65	59.500	ug/L	0.946	1	55	249087	0
Zn	66	365.885	ug/L	3.300	0	255	939839	1
Zn	67	352.607	ug/L	4.232	1	38	150651	0
Zn	68	361.707	ug/L	11.151	3	241	670866	2
As	75	49.057	ug/L	0.369	0	310	109553	1
As-1	75	47.803	ug/L	0.285	0	9967	117506	1
Se	82	85.005	ug/L	1.578	1	4	20708	1
Se	78	79.959	ug/L	0.831	1	10138	61496	0
Mo	98	26.199	ug/L	0.788	3	31	131826	1
Y	89		ug/L			399449	606649	0
Kr	83		ug/L			635	1234	3
> In	115		ug/L			965468	1017724	0
Ag	107	26.394	ug/L	0.605	2	54	319240	1
Cd	111	30.956	ug/L	0.055	0	102	152987	0
Cd	114	30.521	ug/L	0.408	1	36	381445	0
Sb	121	23.070	ug/L	0.169	0	768	338332	0
Sb	123	22.933	ug/L	0.472	2	575	254573	1
Ba	135	222.207	ug/L	1.067	0	23	972471	0
Ba	137	223.103	ug/L	3.736	1	42	1692377	1
> Tb	159		ug/L			1098939	1105565	1
Tl	205	24.180	ug/L	0.456	1	811	924571	0
Pb	208	600.495	ug/L	9.807	1	507	29084017	0
Bi	209		ug/L			2742152	2608751	0
Th	232	27.920	ug/L	0.700	2	5672	1330200	1
U	238	24.607	ug/L	0.547	2	50	1260612	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:24:36

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

D.J.

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1969371	1
[Be	9	0.484	ug/L	0.010	1	22	2523	1
C	13		ug/L			143235	322196	3
Cl	37		ug/L			4954439	5655237	1
> Sc	45		ug/L			1218098	1380785	0
V	51	9.213	ug/L	0.052	0	9170	260565	0
V-1	51	9.292	ug/L	0.043	0	105	249734	0
Cr	52	6.921	ug/L	0.136	1	27160	189846	1
Cr	53	7.106	ug/L	0.209	2	170	17988	2
Mn	55	1516.752	ug/L	11.883	0	674	4735586	0
Co	59	3.485	ug/L	0.022	0	88	78741	0
> Ge	72		ug/L			652831	647693	2
Ni	60	6.486	ug/L	0.161	2	35	26927	0
Ni	62	7.006	ug/L	0.415	5	471	4535	4
Cu	63	42.798	ug/L	0.545	1	514	395195	1
Cu	65	43.927	ug/L	1.859	4	55	183108	2
Zn	66	1107.092	ug/L	56.777	5	255	2829826	3
Zn	67	947.611	ug/L	22.671	2	38	403087	0
Zn	68	994.561	ug/L	15.435	1	241	1836789	0
As	75	23.554	ug/L	0.293	1	310	52542	1
As-1	75	23.302	ug/L	0.433	1	9967	62106	0
Se	82	1.189	ug/L	0.019	1	4	292	0
Se	78	1.325	ug/L	0.500	37	10138	10902	1
Mo	98	0.692	ug/L	0.036	5	31	3497	3
Y	89		ug/L			399449	501981	0
Kr	83		ug/L			635	794	4
> In	115		ug/L			965468	1292849	1
Ag	107	1.200	ug/L	0.025	2	54	18499	1
Cd	111	13.840	ug/L	0.283	2	102	86954	1
Cd	114	13.535	ug/L	0.167	1	36	214912	0
Sb	121	15.160	ug/L	0.124	0	768	282765	0
Sb	123	15.296	ug/L	0.181	1	575	215947	0
Ba	135	778.258	ug/L	3.139	0	23	4326571	0
Ba	137	766.676	ug/L	4.656	0	42	7387830	0
> Tb	159		ug/L			1098939	1101524	0
Tl	205	0.794	ug/L	0.009	1	811	31042	1
Pb	208	1672.609	ug/L	17.973	1	507	80721127	0
Bi	209		ug/L			2742152	2727256	1
Th	232	1.319	ug/L	0.050	3	5672	68042	3
U	238	0.467	ug/L	0.003	0	50	23869	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:29:47

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

DL

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1947865	0
Be	9	0.508	ug/L	0.005	1	22	2615	0
C	13		ug/L			143235	189437	3
Cl	37		ug/L			4954439	5008480	1
> Sc	45		ug/L			1218098	1389142	1
V	51	33.104	ug/L	0.634	1	9170	914638	0
V-1	51	33.533	ug/L	0.622	1	105	906257	1
Cr	52	25.371	ug/L	0.781	3	27160	617357	1
Cr	53	26.556	ug/L	0.642	2	170	67081	1
Mn	55	733.409	ug/L	2.724	0	674	23037916	2
Co	59	8.208	ug/L	0.099	1	88	186413	2
> Ge	72		ug/L			652831	627728	0
Ni	60	20.522	ug/L	0.350	1	35	82520	0
Ni	62	21.648	ug/L	0.512	2	471	12639	2
Cu	63	25.906	ug/L	0.356	1	514	232060	1
Cu	65	26.489	ug/L	0.255	0	55	107094	1
Zn	66	283.664	ug/L	7.950	2	255	703327	2
Zn	67	282.611	ug/L	3.421	1	38	116572	1
Zn	68	285.001	ug/L	7.686	2	241	510314	1
As	75	19.938	ug/L	0.492	2	310	43153	1
As-1	75	19.786	ug/L	0.509	2	9967	52560	1
Se	82	-0.055	ug/L	0.076	137	4	-8	208
Se	78	0.703	ug/L	0.112	15	10138	10184	0
Mo	98	0.458	ug/L	0.013	2	31	2256	1
Y	89		ug/L			399449	538678	1
Kr	83		ug/L			635	1051	6
> In	115		ug/L			965468	971816	0
Ag	107	0.293	ug/L	0.007	2	54	3442	1
Cd	111	5.088	ug/L	0.114	2	102	24094	1
Cd	114	4.911	ug/L	0.085	1	36	58639	0
Sb	121	0.171	ug/L	0.006	3	768	3165	3
Sb	123	0.178	ug/L	0.003	1	575	2465	0
Ba	135	284.048	ug/L	1.869	0	23	1186995	0
Ba	137	313.389	ug/L	4.487	1	42	2269926	0
> Tb	159		ug/L			1098939	1086735	0
Tl	205	0.258	ug/L	0.008	3	811	10493	2
Pb	208	205.778	ug/L	4.100	1	507	9798533	2
Bi	209		ug/L			2742152	2591338	0
Th	232	3.566	ug/L	0.026	0	5672	171947	0
U	238	0.488	ug/L	0.006	1	50	24622	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:33:55

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1941039	1
[Be	9	0.513	ug/L	0.011	2	22	2630	0
C	13		ug/L			143235	208334	2
Cl	37		ug/L			4954439	5213087	1
> Sc	45		ug/L			1218098	1406333	2
V	51	27.202	ug/L	0.360	1	9170	762849	1
V-1	51	27.434	ug/L	0.245	0	105	750705	1
Cr	52	18.989	ug/L	0.498	2	27160	475692	1
Cr	53	19.480	ug/L	0.369	1	170	49869	0
Mn	55	1725.342	ug/L	46.939	2	674	54845510	1
Co	59	7.626	ug/L	0.249	3	88	175265	1
> Ge	72		ug/L			652831	628220	1
Ni	60	20.710	ug/L	0.274	1	35	83340	0
Ni	62	21.218	ug/L	0.444	2	471	12406	0
Cu	63	40.364	ug/L	0.572	1	514	361557	1
Cu	65	39.889	ug/L	1.358	3	55	161326	2
Zn	66	695.243	ug/L	12.688	1	255	1724760	0
Zn	67	664.069	ug/L	19.586	2	38	274034	2
Zn	68	699.239	ug/L	3.681	0	241	1252840	0
As	75	35.007	ug/L	0.394	1	310	75604	0
As-1	75	34.685	ug/L	0.463	1	9967	84991	0
Se	82	0.233	ug/L	0.045	19	4	59	17
Se	78	0.870	ug/L	0.286	32	10138	10295	0
Mo	98	0.570	ug/L	0.025	4	31	2803	4
Y	89		ug/L			399449	535722	1
Kr	83		ug/L			635	998	2
> In	115		ug/L			965468	1037021	0
Ag	107	0.675	ug/L	0.009	1	54	8381	1
Cd	111	14.385	ug/L	0.038	0	102	72497	0
Cd	114	13.932	ug/L	0.145	1	36	177447	0
Sb	121	0.864	ug/L	0.013	1	768	13707	1
Sb	123	0.873	ug/L	0.006	0	575	10471	0
Ba	135	578.187	ug/L	5.288	0	23	2578395	1
Ba	137	568.260	ug/L	5.831	1	42	4392365	0
> Tb	159		ug/L			1098939	1096588	0
Tl	205	0.494	ug/L	0.009	1	811	19539	1
Pb	208	846.470	ug/L	1.678	0	507	40669910	0
Bi	209		ug/L			2742152	2628537	1
Th	232	3.077	ug/L	0.011	0	5672	150477	0
U	238	0.389	ug/L	0.002	0	50	19815	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:38:03

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1854149	3
[Be	9	52.250	ug/L	2.390	4	22	253568	1
C	13		ug/L			143235	152569	0
Cl	37		ug/L			4954439	5343739	2
> Sc	45		ug/L			1218098	1273616	3
V	51	46.259	ug/L	2.536	5	9170	1166901	2
V-1	51	46.865	ug/L	2.175	4	105	1160243	1
Cr	52	46.793	ug/L	1.622	3	27160	1019643	0
Cr	53	48.891	ug/L	0.758	1	170	113090	2
Mn	55	46.652	ug/L	0.281	0	674	1344019	2
Co	59	46.834	ug/L	0.780	1	88	974458	1
> Ge	72		ug/L			652831	622404	2
Ni	60	50.286	ug/L	0.611	1	35	200424	1
Ni	62	50.463	ug/L	1.031	2	471	28613	1
Cu	63	50.579	ug/L	1.740	3	514	448541	1
Cu	65	50.065	ug/L	0.813	1	55	200588	0
Zn	66	51.253	ug/L	0.568	1	255	126211	2
Zn	67	50.764	ug/L	0.642	1	38	20788	1
Zn	68	51.301	ug/L	0.810	1	241	91263	0
As	75	50.998	ug/L	1.246	2	310	108959	0
As-1	75	50.279	ug/L	1.125	2	9967	117764	0
Se	82	53.946	ug/L	1.635	3	4	12576	1
Se	78	51.426	ug/L	1.162	2	10138	41296	0
Mo	98	53.261	ug/L	2.022	3	31	256411	2
Y	89		ug/L			399449	404604	1
Kr	83		ug/L			635	733	2
> In	115		ug/L			965468	934331	2
Ag	107	56.271	ug/L	0.472	0	54	624739	1
Cd	111	51.968	ug/L	1.568	3	102	235612	0
Cd	114	50.973	ug/L	1.505	2	36	584621	1
Sb	121	51.114	ug/L	1.152	2	768	687046	0
Sb	123	51.206	ug/L	1.174	2	575	521011	0
Ba	135	48.967	ug/L	0.694	1	23	196719	0
Ba	137	49.286	ug/L	1.054	2	42	343186	1
> Tb	159		ug/L			1098939	1065198	1
Tl	205	46.792	ug/L	0.695	1	811	1723117	0
Pb	208	48.046	ug/L	0.553	1	507	2242602	0
Bi	209		ug/L			2742152	2589401	0
Th	232	52.020	ug/L	0.792	1	5672	2383292	0
U	238	52.765	ug/L	1.058	2	50	2604385	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:44:56

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1849095	0
Be	9	-0.001	ug/L	0.000	37	22	18	11
C	13		ug/L			143235	154509	4
Cl	37		ug/L			4954439	5084244	1
> Sc	45		ug/L			1218098	1242155	1
V	51	-0.019	ug/L	0.005	23	9170	8887	0
V-1	51	-0.002	ug/L	0.000	10	105	56	9
Cr	52	-0.067	ug/L	0.015	22	27160	26307	0
Cr	53	-0.011	ug/L	0.004	33	170	148	5
Mn	55	0.002	ug/L	0.001	51	674	731	1
Co	59	-0.000	ug/L	0.000	191	88	86	8
> Ge	72		ug/L			652831	618477	1
Ni	60	0.003	ug/L	0.001	21	35	45	5
Ni	62	0.629	ug/L	0.015	2	471	97	10
Cu	63	-0.041	ug/L	0.001	2	514	128	7
Cu	65	-0.001	ug/L	0.001	87	55	49	7
Zn	66	-0.028	ug/L	0.002	7	255	173	3
Zn	67	-0.026	ug/L	0.012	45	38	26	20
Zn	68	-0.022	ug/L	0.006	28	241	190	4
As	75	0.032	ug/L	0.011	35	310	362	7
As-1	75	0.261	ug/L	0.078	29	9967	10000	0
Se	82	-0.031	ug/L	0.013	42	4	-2	104
Se	78	0.903	ug/L	0.293	32	10138	10155	0
Mo	98	0.004	ug/L	0.000	3	31	51	2
Y	89		ug/L			399449	393555	0
Kr	83		ug/L			635	706	2
> In	115		ug/L			965468	927806	0
Ag	107	-0.001	ug/L	0.000	16	54	35	7
Cd	111	-0.003	ug/L	0.001	22	102	85	2
Cd	114	0.001	ug/L	0.001	111	36	48	30
Sb	121	0.011	ug/L	0.006	54	768	884	9
Sb	123	0.012	ug/L	0.007	60	575	672	11
Ba	135	0.001	ug/L	0.001	113	23	26	17
Ba	137	0.001	ug/L	0.001	60	42	50	11
> Tb	159		ug/L			1098939	1031049	0
Tl	205	-0.018	ug/L	0.000	2	811	128	9
Pb	208	0.002	ug/L	0.001	64	507	566	10
Bi	209		ug/L			2742152	2621348	0
Th	232	0.019	ug/L	0.016	81	5672	6164	10
U	238	0.001	ug/L	0.000	16	50	103	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR88 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:49:04

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Del

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1940812	0
Be	9	24.345	ug/L	0.411	1	22	123804	1
C	13		ug/L			143235	172025	0
Cl	37		ug/L			4954439	5102306	2
> Sc	45		ug/L			1218098	1298101	2
V	51	23.325	ug/L	0.568	2	9170	605020	0
V-1	51	23.599	ug/L	0.534	2	105	595936	0
Cr	52	23.604	ug/L	0.621	2	27160	538757	0
Cr	53	24.556	ug/L	0.546	2	170	57974	0
Mn	55	23.859	ug/L	0.219	0	674	700930	1
Co	59	23.608	ug/L	0.226	0	88	500903	2
> Ge	72		ug/L			652831	634301	0
Ni	60	26.057	ug/L	0.472	1	35	105884	2
Ni	62	25.562	ug/L	0.436	1	471	14998	0
Cu	63	26.127	ug/L	0.126	0	514	236493	1
Cu	65	26.109	ug/L	0.461	1	55	106668	2
Zn	66	80.626	ug/L	1.194	1	255	202193	1
Zn	67	74.641	ug/L	1.400	1	38	31141	2
Zn	68	77.805	ug/L	1.502	1	241	140954	1
As	75	25.257	ug/L	0.676	2	310	55174	3
As-1	75	24.699	ug/L	0.387	1	9967	63906	2
Se	82	80.945	ug/L	0.887	1	4	19237	2
Se	78	77.012	ug/L	0.288	0	10138	58138	0
Mo	98	25.568	ug/L	0.318	1	31	125528	2
Y	89		ug/L			399449	408901	0
Kr	83		ug/L			635	730	2
> In	115		ug/L			965468	952372	1
Ag	107	25.870	ug/L	0.440	1	54	292795	1
Cd	111	24.795	ug/L	0.120	0	102	114690	1
Cd	114	24.393	ug/L	0.166	0	36	285287	0
Sb	121	24.107	ug/L	0.206	0	768	330771	0
Sb	123	24.328	ug/L	0.319	1	575	252677	0
Ba	135	24.511	ug/L	0.066	0	23	100401	1
Ba	137	24.225	ug/L	0.374	1	42	171980	0
> Tb	159		ug/L			1098939	1072215	0
Tl	205	24.017	ug/L	0.185	0	811	890757	0
Pb	208	24.704	ug/L	0.226	0	507	1161015	0
Bi	209		ug/L			2742152	2697960	0
Th	232	22.674	ug/L	0.275	1	5672	1048900	0
U	238	22.837	ug/L	0.388	1	50	1134811	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR88 J REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:53:12

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1878477	1
[Be	9	0.041	ug/L	0.005	11	22	227	9
C	13		ug/L			143235	159321	3
Cl	37		ug/L			4954439	6342466	0
> Sc	45		ug/L			1218098	1316001	1
V	51	22.807	ug/L	0.263	1	9170	600121	0
V-1	51	23.170	ug/L	0.316	1	105	593318	0
Cr	52	4.478	ug/L	0.135	3	27160	127438	3
Cr	53	5.045	ug/L	0.073	1	170	12224	0
Mn	55	108.479	ug/L	1.384	1	674	3228400	0
Co	59	0.162	ug/L	0.007	4	88	3585	4
> Ge	72		ug/L			652831	611174	1
Ni	60	0.289	ug/L	0.009	3	35	1163	2
Ni	62	68.238	ug/L	32.687	47	471	37978	48
Cu	63	8.327	ug/L	2.592	31	514	73117	31
Cu	65	0.917	ug/L	0.187	20	55	3663	21
Zn	66	1.148	ug/L	0.048	4	255	3007	3
Zn	67	1.919	ug/L	0.082	4	38	806	4
Zn	68	1.839	ug/L	0.115	6	241	3429	5
As	75	0.176	ug/L	0.012	6	310	660	4
As-1	75	0.537	ug/L	0.018	3	9967	10467	1
Se	82	0.027	ug/L	0.013	48	4	10	28
Se	78	1.493	ug/L	0.065	4	10138	10393	1
Mo	98	0.084	ug/L	0.005	6	31	427	6
Y	89		ug/L			399449	435546	0
Kr	83		ug/L			635	750	2
> In	115		ug/L			965468	908019	0
Ag	107	0.008	ug/L	0.003	30	54	140	19
Cd	111	0.026	ug/L	0.005	19	102	210	10
Cd	114	0.004	ug/L	0.001	32	36	75	17
Sb	121	-0.008	ug/L	0.005	63	768	615	11
Sb	123	-0.007	ug/L	0.007	97	575	469	15
Ba	135	2.299	ug/L	0.024	1	23	8997	1
Ba	137	2.266	ug/L	0.022	0	42	15379	1
> Tb	159		ug/L			1098939	1064605	0
Tl	205	-0.005	ug/L	0.002	36	811	584	12
Pb	208	0.070	ug/L	0.001	0	507	3766	0
Bi	209		ug/L			2742152	2418439	0
Th	232	0.259	ug/L	0.035	13	5672	17328	9
U	238	0.043	ug/L	0.001	2	50	2175	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 19:57:19

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

D.J.

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1872130	2
[Be	9	0.509	ug/L	0.014	2	22	2521	1
C	13		ug/L			143235	191550	2
Cl	37		ug/L			4954439	5138917	1
> Sc	45		ug/L			1218098	1363490	2
V	51	30.079	ug/L	0.240	0	9170	816875	2
V-1	51	30.471	ug/L	0.227	0	105	808465	2
Cr	52	18.079	ug/L	0.198	1	27160	440633	1
Cr	53	18.979	ug/L	0.543	2	170	47102	0
Mn	55	1381.655	ug/L	36.260	2	674	42586579	2
Co	59	7.804	ug/L	0.269	3	88	173898	1
> Ge	72		ug/L			652831	631355	1
Ni	60	18.048	ug/L	0.263	1	35	72995	0
Ni	62	21.723	ug/L	1.145	5	471	12759	5
Cu	63	20.916	ug/L	0.465	2	514	188504	1
Cu	65	21.241	ug/L	0.525	2	55	86363	1
Zn	66	432.495	ug/L	7.831	1	255	1078384	0
Zn	67	421.072	ug/L	7.247	1	38	174651	0
Zn	68	432.280	ug/L	14.170	3	241	778310	2
As	75	23.834	ug/L	0.294	1	310	51828	0
As-1	75	23.656	ug/L	0.343	1	9967	61321	0
Se	82	0.040	ug/L	0.057	140	4	14	96
Se	78	0.726	ug/L	0.176	24	10138	10257	0
Mo	98	0.459	ug/L	0.017	3	31	2275	4
Y	89		ug/L			399449	525344	3
Kr	83		ug/L			635	962	2
> In	115		ug/L			965468	979550	1
Ag	107	0.381	ug/L	0.012	3	54	4493	1
Cd	111	6.635	ug/L	0.101	1	102	31638	1
Cd	114	6.404	ug/L	0.068	1	36	77057	0
Sb	121	0.320	ug/L	0.005	1	768	5292	0
Sb	123	0.322	ug/L	0.006	1	575	4021	0
Ba	135	411.184	ug/L	5.778	1	23	1731866	0
Ba	137	450.611	ug/L	9.509	2	42	3289545	0
> Tb	159		ug/L			1098939	1104547	0
Tl	205	0.293	ug/L	0.003	1	811	12018	0
Pb	208	222.983	ug/L	0.680	0	507	10791787	0
Bi	209		ug/L			2742152	2635766	0
Th	232	3.188	ug/L	0.008	0	5672	156830	0
U	238	0.370	ug/L	0.006	1	50	18970	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 F SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:01:26

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Del

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1907649	1
[Be	9	0.582	ug/L	0.016	2	22	2933	1
C	13		ug/L			143235	185630	2
Cl	37		ug/L			4954439	5175658	1
> Sc	45		ug/L			1218098	1395864	1
V	51	33.457	ug/L	0.918	2	9170	928638	0
V-1	51	33.842	ug/L	0.867	2	105	918923	0
Cr	52	19.638	ug/L	0.716	3	27160	487177	1
Cr	53	20.447	ug/L	0.528	2	170	51944	0
Mn	55	703.572	ug/L	10.018	1	674	22203430	0
Co	59	8.206	ug/L	0.126	1	88	187238	0
> Ge	72		ug/L			652831	621679	0
Ni	60	22.693	ug/L	0.028	0	35	90374	0
Ni	62	25.290	ug/L	0.762	3	471	14549	2
Cu	63	23.010	ug/L	0.366	1	514	204175	1
Cu	65	23.353	ug/L	0.368	1	55	93501	1
Zn	66	120.707	ug/L	2.856	2	255	296537	1
Zn	67	132.213	ug/L	0.808	0	38	54030	0
Zn	68	126.762	ug/L	2.169	1	241	224938	1
As	75	16.174	ug/L	0.162	1	310	34730	1
As-1	75	16.061	ug/L	0.139	0	9967	44046	1
Se	82	-0.246	ug/L	0.050	20	4	-53	22
Se	78	0.665	ug/L	0.065	9	10138	10062	0
Mo	98	0.353	ug/L	0.004	0	31	1728	0
Y	89		ug/L			399449	558663	2
Kr	83		ug/L			635	1155	4
> In	115		ug/L			965468	942073	2
Ag	107	0.223	ug/L	0.036	16	54	2543	13
Cd	111	0.785	ug/L	0.011	1	102	3688	3
Cd	114	0.583	ug/L	0.013	2	36	6775	0
Sb	121	0.053	ug/L	0.003	6	768	1463	2
Sb	123	0.053	ug/L	0.005	10	575	1105	2
Ba	135	275.908	ug/L	6.517	2	23	1117393	1
Ba	137	274.929	ug/L	9.754	3	42	1929545	1
> Tb	159		ug/L			1098939	1097800	1
Tl	205	0.178	ug/L	0.005	2	811	7578	1
Pb	208	18.377	ug/L	0.272	1	507	884343	0
Bi	209		ug/L			2742152	2596787	1
Th	232	3.902	ug/L	0.050	1	5672	189486	0
U	238	0.513	ug/L	0.013	2	50	26167	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 G SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:05:34

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Del

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1944304	1
Be	9	0.538	ug/L	0.008	1	22	2763	2
C	13		ug/L			143235	174724	1
Cl	37		ug/L			4954439	5226526	1
> Sc	45		ug/L			1218098	1429824	1
V	51	38.893	ug/L	0.835	2	9170	1104086	0
V-1	51	39.365	ug/L	0.914	2	105	1094851	0
Cr	52	20.021	ug/L	0.298	1	27160	508257	0
Cr	53	20.939	ug/L	0.634	3	170	54479	1
Mn	55	391.802	ug/L	3.162	0	674	12666464	1
Co	59	8.174	ug/L	0.219	2	88	191019	1
> Ge	72		ug/L			652831	623579	1
Ni	60	20.209	ug/L	0.511	2	35	80722	2
Ni	62	22.691	ug/L	0.712	3	471	13138	2
Cu	63	29.428	ug/L	0.880	2	514	261745	1
Cu	65	29.611	ug/L	0.559	1	55	118896	1
Zn	66	63.255	ug/L	1.371	2	255	156004	2
Zn	67	72.070	ug/L	0.901	1	38	29558	1
Zn	68	68.250	ug/L	0.828	1	241	121605	2
As	75	5.895	ug/L	0.053	0	310	12883	0
As-1	75	5.871	ug/L	0.163	2	9967	22187	0
Se	82	-0.129	ug/L	0.145	112	4	-25	131
Se	78	0.630	ug/L	0.369	58	10138	10071	1
Mo	98	0.312	ug/L	0.002	0	31	1533	1
Y	89		ug/L			399449	641015	2
Kr	83		ug/L			635	1092	3
> In	115		ug/L			965468	950648	0
Ag	107	0.239	ug/L	0.008	3	54	2750	3
Cd	111	0.408	ug/L	0.011	2	102	1982	2
Cd	114	0.214	ug/L	0.000	0	36	2536	0
Sb	121	-0.009	ug/L	0.002	22	768	635	4
Sb	123	-0.005	ug/L	0.001	14	575	512	2
Ba	135	154.894	ug/L	2.900	1	23	633171	1
Ba	137	153.997	ug/L	1.727	1	42	1091219	1
> Tb	159		ug/L			1098939	1110184	0
Tl	205	0.140	ug/L	0.002	1	811	6181	0
Pb	208	7.437	ug/L	0.082	1	507	362217	0
Bi	209		ug/L			2742152	2606377	0
Th	232	4.101	ug/L	0.057	1	5672	201113	0
U	238	0.696	ug/L	0.011	1	50	35845	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 H SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:09:41

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Del

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1905311	0
[Be	9	0.490	ug/L	0.011	2	22	2470	2
C	13		ug/L			143235	171505	1
Cl	37		ug/L			4954439	5230158	4
> Sc	45		ug/L			1218098	1412359	1
V	51	41.932	ug/L	0.253	0	9170	1175276	1
V-1	51	42.500	ug/L	0.211	0	105	1167941	1
Cr	52	21.652	ug/L	0.531	2	27160	540331	0
Cr	53	22.848	ug/L	0.404	1	170	58711	0
Mn	55	324.080	ug/L	13.230	4	674	10345470	2
Co	59	8.285	ug/L	0.203	2	88	191273	1
> Ge	72		ug/L			652831	629321	0
Ni	60	19.984	ug/L	0.276	1	35	80567	1
Ni	62	22.346	ug/L	0.575	2	471	13066	2
Cu	63	30.287	ug/L	0.319	1	514	271908	1
Cu	65	30.753	ug/L	0.633	2	55	124634	1
Zn	66	54.617	ug/L	0.687	1	255	135979	1
Zn	67	60.785	ug/L	0.663	1	38	25165	0
Zn	68	57.842	ug/L	1.347	2	241	104034	2
As	75	6.060	ug/L	0.092	1	310	13359	1
As-1	75	6.007	ug/L	0.118	1	9967	22691	1
Se	82	-0.084	ug/L	0.014	16	4	-15	21
Se	78	0.457	ug/L	0.148	32	10138	10057	0
Mo	98	0.367	ug/L	0.005	1	31	1819	1
Y	89		ug/L			399449	610510	2
Kr	83		ug/L			635	1007	4
> In	115		ug/L			965468	945749	0
Ag	107	0.237	ug/L	0.002	0	54	2718	0
Cd	111	0.325	ug/L	0.031	9	102	1592	9
Cd	114	0.142	ug/L	0.004	2	36	1689	2
Sb	121	-0.026	ug/L	0.001	4	768	396	4
Sb	123	-0.027	ug/L	0.001	5	575	290	5
Ba	135	126.184	ug/L	0.726	0	23	513181	0
Ba	137	125.946	ug/L	0.709	0	42	887880	0
> Tb	159		ug/L			1098939	1104317	0
Tl	205	0.142	ug/L	0.001	0	811	6218	0
Pb	208	6.880	ug/L	0.041	0	507	333389	0
Bi	209		ug/L			2742152	2590022	0
Th	232	4.715	ug/L	0.047	0	5672	229159	0
U	238	0.750	ug/L	0.004	0	50	38439	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 | SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:13:49

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1920278	3
Be	9	0.955	ug/L	0.022	2	22	4825	1
C	13		ug/L			143235	227754	1
Cl	37		ug/L			4954439	5310531	0
> Sc	45		ug/L			1218098	1394905	1
V	51	28.887	ug/L	0.519	1	9170	802789	0
V-1	51	29.300	ug/L	0.799	2	105	795058	1
Cr	52	28.472	ug/L	0.387	1	27160	692216	2
Cr	53	29.871	ug/L	0.592	1	170	75748	0
Mn	55	2721.538	ug/L	44.062	1	674	85826779	0
Co	59	11.916	ug/L	0.320	2	88	271642	1
> Ge	72		ug/L			652831	629541	1
Ni	60	36.463	ug/L	0.602	1	35	147000	0
Ni	62	38.072	ug/L	1.193	3	471	21943	1
Cu	63	39.860	ug/L	1.629	4	514	357667	2
Cu	65	40.666	ug/L	1.283	3	55	164785	1
Zn	66	750.979	ug/L	9.682	1	255	1867115	1
Zn	67	706.432	ug/L	8.814	1	38	292205	2
Zn	68	738.245	ug/L	19.629	2	241	1325188	1
As	75	31.274	ug/L	0.778	2	310	67703	1
As-1	75	30.934	ug/L	0.822	2	9967	76987	0
Se	82	0.555	ug/L	0.041	7	4	135	6
Se	78	1.134	ug/L	0.354	31	10138	10480	0
Mo	98	1.177	ug/L	0.062	5	31	5760	4
Y	89		ug/L			399449	635664	1
Kr	83		ug/L			635	1119	4
> In	115		ug/L			965468	1016423	0
Ag	107	0.488	ug/L	0.015	3	54	5946	2
Cd	111	16.025	ug/L	0.120	0	102	79148	0
Cd	114	15.688	ug/L	0.057	0	36	195845	0
Sb	121	0.891	ug/L	0.016	1	768	13822	1
Sb	123	0.885	ug/L	0.009	1	575	10391	1
Ba	135	409.788	ug/L	1.633	0	23	1791105	0
Ba	137	449.317	ug/L	1.922	0	42	3404083	0
> Tb	159		ug/L			1098939	1096967	1
Tl	205	0.562	ug/L	0.009	1	811	22111	0
Pb	208	709.779	ug/L	12.951	1	507	34109183	0
Bi	209		ug/L			2742152	2606769	0
Th	232	4.190	ug/L	0.073	1	5672	202906	0
U	238	0.606	ug/L	0.012	1	50	30831	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 J SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:17:57

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1941367	1
[Be	9	1.258	ug/L	0.031	2	22	6420	2
C	13		ug/L			143235	197868	0
Cl	37		ug/L			4954439	5263898	1
> Sc	45		ug/L			1218098	1435933	0
V	51	41.354	ug/L	0.788	1	9170	1178598	2
V-1	51	41.894	ug/L	1.113	2	105	1170578	2
Cr	52	32.196	ug/L	0.923	2	27160	801412	2
Cr	53	33.711	ug/L	0.428	1	170	87994	1
Mn	55	1464.941	ug/L	50.265	3	674	47556888	2
Co	59	17.393	ug/L	0.197	1	88	408238	1
> Ge	72		ug/L			652831	620116	0
Ni	60	73.295	ug/L	1.556	2	35	291052	1
Ni	62	77.451	ug/L	0.871	1	471	43526	2
Cu	63	51.088	ug/L	0.513	1	514	451617	1
Cu	65	52.009	ug/L	0.786	1	55	207639	0
Zn	66	425.116	ug/L	10.292	2	255	1041128	1
Zn	67	411.378	ug/L	11.898	2	38	167586	2
Zn	68	418.739	ug/L	10.556	2	241	740587	1
As	75	23.790	ug/L	0.373	1	310	50809	0
As-1	75	23.505	ug/L	0.401	1	9967	59906	0
Se	82	0.315	ug/L	0.044	13	4	77	12
Se	78	1.375	ug/L	0.152	11	10138	10472	0
Mo	98	1.345	ug/L	0.042	3	31	6482	3
Y	89		ug/L			399449	810851	2
Kr	83		ug/L			635	1530	1
> In	115		ug/L			965468	955719	1
Ag	107	1.229	ug/L	0.022	1	54	14015	1
Cd	111	6.422	ug/L	0.120	1	102	29879	1
Cd	114	5.993	ug/L	0.086	1	36	70360	0
Sb	121	0.177	ug/L	0.010	5	768	3196	3
Sb	123	0.177	ug/L	0.001	0	575	2415	1
Ba	135	264.447	ug/L	1.825	0	23	1086783	1
Ba	137	264.834	ug/L	3.939	1	42	1886359	0
> Tb	159		ug/L			1098939	1100070	0
Tl	205	0.336	ug/L	0.003	1	811	13585	0
Pb	208	194.628	ug/L	1.669	0	507	9381086	0
Bi	209		ug/L			2742152	2499116	0
Th	232	5.313	ug/L	0.041	0	5672	256524	0
U	238	1.299	ug/L	0.018	1	50	66267	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 K SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:23:08

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1962488	1
[Be	9	0.508	ug/L	0.015	2	22	2635	1
C	13		ug/L			143235	190670	2
Cl	37		ug/L			4954439	5068365	3
> Sc	45		ug/L			1218098	1387244	0
V	51	31.920	ug/L	0.543	1	9170	881292	1
V-1	51	32.263	ug/L	0.457	1	105	870915	1
Cr	52	20.383	ug/L	0.388	1	27160	501559	1
Cr	53	21.131	ug/L	0.266	1	170	53357	0
Mn	55	1383.797	ug/L	25.102	1	674	43405479	1
Co	59	8.558	ug/L	0.060	0	88	194111	1
> Ge	72		ug/L			652831	623770	0
Ni	60	20.132	ug/L	0.185	0	35	80449	1
Ni	62	21.299	ug/L	0.402	1	471	12364	0
Cu	63	17.881	ug/L	0.578	3	514	159301	2
Cu	65	18.157	ug/L	0.397	2	55	72949	1
Zn	66	216.633	ug/L	3.799	1	255	533894	2
Zn	67	213.317	ug/L	6.392	2	38	87428	2
Zn	68	216.744	ug/L	2.060	0	241	385746	0
As	75	15.482	ug/L	0.238	1	310	33364	1
As-1	75	15.394	ug/L	0.286	1	9967	42751	0
Se	82	-0.256	ug/L	0.037	14	4	-55	14
Se	78	0.604	ug/L	0.176	29	10138	10058	0
Mo	98	0.431	ug/L	0.006	1	31	2109	2
Y	89		ug/L			399449	471386	1
Kr	83		ug/L			635	1068	2
> In	115		ug/L			965468	964349	0
Ag	107	0.189	ug/L	0.002	1	54	2216	0
Cd	111	2.844	ug/L	0.008	0	102	13413	0
Cd	114	2.695	ug/L	0.009	0	36	31951	0
Sb	121	0.141	ug/L	0.007	4	768	2720	2
Sb	123	0.143	ug/L	0.001	0	575	2070	0
Ba	135	241.634	ug/L	1.491	0	23	1002038	1
Ba	137	239.157	ug/L	2.656	1	42	1719013	0
> Tb	159		ug/L			1098939	1074959	0
Tl	205	0.227	ug/L	0.002	0	811	9244	0
Pb	208	220.121	ug/L	1.472	0	507	10367691	0
Bi	209		ug/L			2742152	2589379	0
Th	232	2.857	ug/L	0.006	0	5672	137360	0
U	238	0.322	ug/L	0.006	1	50	16067	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VS21 L SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:27:16

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1981657	3
[Be	9	0.358	ug/L	0.020	5	22	1882	2
C	13		ug/L			143235	234600	1
Cl	37		ug/L			4954439	5263295	1
> Sc	45		ug/L			1218098	1377388	1
V	51	24.075	ug/L	0.529	2	9170	662339	0
V-1	51	24.415	ug/L	0.697	2	105	654190	1
Cr	52	15.299	ug/L	0.245	1	27160	381392	0
Cr	53	16.139	ug/L	0.779	4	170	40491	3
Mn	55	602.760	ug/L	15.655	2	674	18771056	2
Co	59	6.275	ug/L	0.167	2	88	141290	1
> Ge	72		ug/L			652831	636571	0
Ni	60	14.012	ug/L	0.248	1	35	57153	2
Ni	62	15.287	ug/L	0.229	1	471	9187	1
Cu	63	20.339	ug/L	0.193	0	514	184861	0
Cu	65	20.414	ug/L	0.183	0	55	83701	0
Zn	66	199.476	ug/L	1.602	0	255	501681	0
Zn	67	193.603	ug/L	3.319	1	38	80993	1
Zn	68	198.394	ug/L	3.065	1	241	360360	1
As	75	10.396	ug/L	0.049	0	310	22964	0
As-1	75	10.321	ug/L	0.092	0	9967	32454	0
Se	82	0.526	ug/L	0.051	9	4	129	9
Se	78	0.931	ug/L	0.177	18	10138	10471	0
Mo	98	0.463	ug/L	0.029	6	31	2311	5
Y	89		ug/L			399449	500825	1
Kr	83		ug/L			635	865	2
> In	115		ug/L			965468	987841	0
Ag	107	0.269	ug/L	0.009	3	54	3216	2
Cd	111	3.978	ug/L	0.101	2	102	19173	1
Cd	114	3.850	ug/L	0.016	0	36	46743	0
Sb	121	0.356	ug/L	0.002	0	768	5835	0
Sb	123	0.357	ug/L	0.006	1	575	4425	1
Ba	135	137.858	ug/L	1.782	1	23	585602	1
Ba	137	137.327	ug/L	2.405	1	42	1011114	1
> Tb	159		ug/L			1098939	1081256	0
Tl	205	0.190	ug/L	0.005	2	811	7910	2
Pb	208	204.535	ug/L	2.189	1	507	9689921	0
Bi	209		ug/L			2742152	2607247	0
Th	232	1.880	ug/L	0.017	0	5672	92822	0
U	238	0.509	ug/L	0.005	1	50	25539	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV10

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:31:24

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1887691	2
[Be	9	52.680	ug/L	0.933	1	22	260466	1
C	13		ug/L			143235	157221	1
Cl	37		ug/L			4954439	5357006	3
> Sc	45		ug/L			1218098	1257774	0
V	51	46.961	ug/L	1.228	2	9170	1171132	2
V-1	51	47.480	ug/L	0.818	1	105	1162033	2
Cr	52	47.801	ug/L	1.136	2	27160	1028729	2
Cr	53	49.611	ug/L	0.919	1	170	113336	1
Mn	55	47.628	ug/L	0.662	1	674	1355226	1
Co	59	46.737	ug/L	0.746	1	88	960620	1
> Ge	72		ug/L			652831	623224	1
Ni	60	50.161	ug/L	0.365	0	35	200220	1
Ni	62	49.588	ug/L	0.362	0	471	28168	1
Cu	63	49.042	ug/L	0.661	1	514	435677	0
Cu	65	49.905	ug/L	1.623	3	55	200210	2
Zn	66	50.891	ug/L	1.131	2	255	125469	1
Zn	67	51.454	ug/L	0.385	0	38	21103	1
Zn	68	50.418	ug/L	1.201	2	241	89818	1
As	75	50.409	ug/L	1.037	2	310	107866	1
As-1	75	49.713	ug/L	1.031	2	9967	116717	0
Se	82	53.723	ug/L	0.946	1	4	12544	1
Se	78	51.218	ug/L	0.967	1	10138	41228	0
Mo	98	52.875	ug/L	0.503	0	31	254993	0
Y	89		ug/L			399449	398639	1
Kr	83		ug/L			635	693	0
> In	115		ug/L			965468	933758	1
Ag	107	55.167	ug/L	0.600	1	54	612158	1
Cd	111	51.682	ug/L	0.406	0	102	234265	0
Cd	114	50.864	ug/L	0.526	1	36	583251	1
Sb	121	50.834	ug/L	0.978	1	768	682986	0
Sb	123	50.618	ug/L	0.825	1	575	514836	0
Ba	135	49.654	ug/L	0.733	1	23	199393	1
Ba	137	49.276	ug/L	0.437	0	42	342980	0
> Tb	159		ug/L			1098939	1066460	1
Tl	205	46.105	ug/L	0.260	0	811	1700022	0
Pb	208	47.497	ug/L	0.279	0	507	2219738	0
Bi	209		ug/L			2742152	2591548	1
Th	232	51.981	ug/L	0.423	0	5672	2384551	0
U	238	52.787	ug/L	0.749	1	50	2608865	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB10

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:38:16

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
Li	6		ug/L			1766731	1834925	2
Be	9	-0.002	ug/L	0.000	14	22	14	7
C	13		ug/L			143235	163248	0
Cl	37		ug/L			4954439	5082478	2
Sc	45		ug/L			1218098	1235415	1
V	51	-0.020	ug/L	0.007	37	9170	8817	2
V-1	51	-0.002	ug/L	0.001	44	105	70	24
Cr	52	-0.063	ug/L	0.025	39	27160	26240	2
Cr	53	-0.002	ug/L	0.005	220	170	168	4
Mn	55	0.001	ug/L	0.002	251	674	701	5
Co	59	0.000	ug/L	0.000	526	88	91	9
Ge	72		ug/L			652831	607691	0
Ni	60	0.002	ug/L	0.002	127	35	39	21
Ni	62	-0.585	ug/L	0.039	6	471	119	17
Cu	63	-0.035	ug/L	0.001	3	514	171	4
Cu	65	-0.001	ug/L	0.000	16	55	49	1
Zn	66	-0.034	ug/L	0.005	15	255	155	7
Zn	67	-0.026	ug/L	0.006	22	38	25	9
Zn	68	-0.019	ug/L	0.002	11	241	192	2
As	75	0.022	ug/L	0.012	54	310	335	7
As-1	75	0.300	ug/L	0.046	15	9967	9909	0
Se	82	-0.009	ug/L	0.073	800	4	2	791
Se	78	1.028	ug/L	0.149	14	10138	10054	0
Mo	98	0.003	ug/L	0.003	81	31	45	28
Y	89		ug/L			399449	384758	0
Kr	83		ug/L			635	641	2
In	115		ug/L			965468	929828	1
Ag	107	-0.001	ug/L	0.001	100	54	42	25
Cd	111	-0.002	ug/L	0.002	90	102	88	10
Cd	114	0.001	ug/L	0.000	28	36	49	7
Sb	121	0.007	ug/L	0.006	76	768	838	7
Sb	123	0.006	ug/L	0.004	76	575	613	6
Ba	135	0.000	ug/L	0.001	466	23	23	23
Ba	137	-0.002	ug/L	0.002	84	42	28	38
Tb	159		ug/L			1098939	1026810	1
Tl	205	-0.018	ug/L	0.001	2	811	125	14
Pb	208	-0.001	ug/L	0.000	17	507	407	1
Bi	209		ug/L			2742152	2649056	0
Th	232	0.017	ug/L	0.013	72	5672	6066	8
U	238	0.001	ug/L	0.000	24	50	97	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 MB2 SWN

Sample Dil Factor: 20

Comments:

11-28-12

Sample Date/Time: Tuesday, November 27, 2012 20:42:25

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			1766731	1893457	2
[Be	9	-0.001	ug/L	0.000	87	22	21	11
C	13		ug/L			143235	175723	0
Cl	37		ug/L			4954439	5073318	4
[> Sc	45		ug/L			1218098	1251680	1
V	51	-0.012	ug/L	0.003	23	9170	9137	0
V-1	51	-0.001	ug/L	0.001	171	105	95	22
Cr	52	-0.039	ug/L	0.009	22	27160	27099	0
Cr	53	-0.002	ug/L	0.008	386	170	170	9
Mn	55	0.034	ug/L	0.004	10	674	1668	5
Co	59	0.000	ug/L	0.001	556	88	94	16
[> Ge	72		ug/L			652831	619628	2
Ni	60	-0.001	ug/L	0.000	42	35	30	1
Ni	62	-0.602	ug/L	0.014	2	471	112	5
Cu	63	-0.013	ug/L	0.003	22	514	372	4
Cu	65	0.026	ug/L	0.003	10	55	156	5
Zn	66	1.894	ug/L	0.069	3	255	4873	1
Zn	67	1.709	ug/L	0.130	7	38	732	7
Zn	68	1.814	ug/L	0.013	0	241	3434	1
As	75	0.005	ug/L	0.011	224	310	305	7
As-1	75	0.205	ug/L	0.063	30	9967	9899	1
Se	82	-0.013	ug/L	0.043	321	4	1	859
Se	78	0.740	ug/L	0.205	27	10138	10074	1
Mo	98	-0.000	ug/L	0.001	233	31	28	10
Y	89		ug/L			399449	397902	2
Kr	83		ug/L			635	645	3
[> In	115		ug/L			965468	936846	1
Ag	107	-0.003	ug/L	0.000	13	54	23	17
Cd	111	-0.003	ug/L	0.002	59	102	86	10
Cd	114	0.000	ug/L	0.001	149	36	41	20
Sb	121	-0.033	ug/L	0.001	4	768	298	4
Sb	123	-0.033	ug/L	0.003	9	575	222	13
Ba	135	0.011	ug/L	0.003	31	23	66	19
Ba	137	0.011	ug/L	0.002	15	42	114	9
[> Tb	159		ug/L			1098939	1047901	1
Tl	205	-0.018	ug/L	0.000	2	811	122	11
Pb	208	0.013	ug/L	0.001	6	507	1074	3
Bi	209		ug/L			2742152	2667678	0
Th	232	-0.033	ug/L	0.004	12	5672	3903	5
U	238	0.000	ug/L	0.001	1153	50	51	59

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 MB2 SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:42:25

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

ML-2812

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1893457	2
Be	9	-0.001	ug/L	0.000	87	22	21	11
C	13		ug/L			143235	175723	0
Cl	37		ug/L			4954439	5073318	4
> Sc	45		ug/L			1218098	1251680	1
V	51	-0.012	ug/L	0.003	23	9170	9137	0
V-1	51	-0.001	ug/L	0.001	171	105	95	22
Cr	52	-0.039	ug/L	0.009	22	27160	27099	0
Cr	53	-0.002	ug/L	0.008	386	170	170	9
Mn	55	0.034	ug/L	0.004	10	674	1668	5
Co	59	0.000	ug/L	0.001	556	88	94	16
> Ge	72		ug/L			652831	619628	2
Ni	60	-0.001	ug/L	0.000	42	35	30	1
Ni	62	-0.602	ug/L	0.014	2	471	112	5
Cu	63	-0.013	ug/L	0.003	22	514	372	4
Cu	65	0.026	ug/L	0.003	10	55	156	5
Zn	66	1.894	ug/L	0.069	3	255	4873	1
Zn	67	1.709	ug/L	0.130	7	38	732	7
Zn	68	1.814	ug/L	0.013	0	241	3434	1
As	75	0.005	ug/L	0.011	224	310	305	7
As-1	75	0.205	ug/L	0.063	30	9967	9899	1
Se	82	-0.013	ug/L	0.043	321	4	1	859
Se	78	0.740	ug/L	0.205	27	10138	10074	1
Mo	98	-0.000	ug/L	0.001	233	31	28	10
Y	89		ug/L			399449	397902	2
Kr	83		ug/L			635	645	3
> In	115		ug/L			965468	936846	1
Ag	107	-0.003	ug/L	0.000	13	54	23	17
Cd	111	-0.003	ug/L	0.002	59	102	86	10
Cd	114	0.000	ug/L	0.001	149	36	41	20
Sb	121	-0.033	ug/L	0.001	4	768	298	4
Sb	123	-0.033	ug/L	0.003	9	575	222	13
Ba	135	0.011	ug/L	0.003	31	23	66	19
Ba	137	0.011	ug/L	0.002	15	42	114	9
> Tb	159		ug/L			1098939	1047901	1
Tl	205	-0.018	ug/L	0.000	2	811	122	11
Pb	208	0.013	ug/L	0.001	6	507	1074	3
Bi	209		ug/L			2742152	2667678	0
Th	232	-0.033	ug/L	0.004	12	5672	3903	5
U	238	0.000	ug/L	0.001	1153	50	51	59

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 MB1SPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:46:32

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1842748	1
[Be	9	26.166	ug/L	0.558	2	22	126318	0
C	13		ug/L			143235	164592	3
Cl	37		ug/L			4954439	5082435	2
> Sc	45		ug/L			1218098	1239480	0
V	51	23.952	ug/L	0.142	0	9170	593164	0
V-1	51	24.345	ug/L	0.119	0	105	587180	0
Cr	52	23.766	ug/L	0.278	1	27160	517913	0
Cr	53	25.105	ug/L	0.314	1	170	56610	1
Mn	55	24.156	ug/L	0.272	1	674	677647	0
Co	59	24.077	ug/L	0.704	2	88	487797	3
> Ge	72		ug/L			652831	603668	3
Ni	60	27.266	ug/L	1.399	5	35	105333	3
Ni	62	25.670	ug/L	0.300	1	471	14332	3
Cu	63	26.801	ug/L	0.926	3	514	230754	3
Cu	65	26.527	ug/L	0.762	2	55	103085	2
Zn	66	87.005	ug/L	2.107	2	255	207530	1
Zn	67	76.994	ug/L	1.626	2	38	30554	1
Zn	68	84.018	ug/L	1.364	1	241	144804	2
As	75	27.168	ug/L	1.116	4	310	56398	0
As-1	75	26.266	ug/L	1.082	4	9967	64039	0
Se	82	89.727	ug/L	3.948	4	4	20273	1
Se	78	84.302	ug/L	3.407	4	10138	59634	0
Mo	98	0.003	ug/L	0.003	97	31	44	31
Y	89		ug/L			399449	392296	1
Kr	83		ug/L			635	670	4
> In	115		ug/L			965468	923670	0
Ag	107	28.110	ug/L	0.175	0	54	308598	1
Cd	111	25.717	ug/L	0.189	0	102	115363	0
Cd	114	25.432	ug/L	0.327	1	36	288485	1
Sb	121	-0.041	ug/L	0.003	6	768	196	16
Sb	123	-0.039	ug/L	0.002	4	575	153	11
Ba	135	25.058	ug/L	0.096	0	23	99550	0
Ba	137	24.742	ug/L	0.291	1	42	170378	0
> Tb	159		ug/L			1098939	1037141	1
Tl	205	24.377	ug/L	0.310	1	811	874447	0
Pb	208	24.809	ug/L	0.309	1	507	1127728	0
Bi	209		ug/L			2742152	2624762	0
Th	232	22.505	ug/L	0.309	1	5672	1007016	0
U	238	22.927	ug/L	0.254	1	50	1102018	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR88 B REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:50:40

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			1766731	1823613	1
[Be	9	0.080	ug/L	0.005	6	22	404	5
C	13		ug/L			143235	167606	2
Cl	37		ug/L			4954439	7020148	2
[> Sc	45		ug/L			1218098	1318447	0
V	51	67.073	ug/L	1.659	2	9170	1748946	2
V-1	51	68.068	ug/L	1.674	2	105	1746095	2
Cr	52	13.763	ug/L	0.197	1	27160	331420	1
Cr	53	15.204	ug/L	0.169	1	170	36538	1
Mn	55	85.276	ug/L	2.146	2	674	2542851	2
Co	59	0.249	ug/L	0.006	2	88	5453	2
[> Ge	72		ug/L			652831	600980	1
Ni	60	0.423	ug/L	0.013	3	35	1661	3
Ni	62	58.322	ug/L	53.838	92	471	32063	92
Cu	63	10.909	ug/L	4.385	40	514	94082	41
Cu	65	3.832	ug/L	0.228	5	55	14882	6
Zn	66	1.573	ug/L	0.098	6	255	3966	5
Zn	67	3.891	ug/L	0.028	0	38	1571	2
Zn	68	1.779	ug/L	0.049	2	241	3270	1
As	75	0.847	ug/L	0.006	0	310	2028	1
As-1	75	1.194	ug/L	0.208	17	9967	11661	4
Se	82	0.364	ug/L	0.109	29	4	86	27
Se	78	1.796	ug/L	0.723	40	10138	10402	5
Mo	98	0.633	ug/L	0.021	3	31	2971	3
Y	89		ug/L			399449	449137	1
Kr	83		ug/L			635	738	13
[> In	115		ug/L			965468	898211	0
Ag	107	0.028	ug/L	0.006	22	54	345	19
Cd	111	0.063	ug/L	0.014	22	102	369	16
Cd	114	0.008	ug/L	0.003	38	36	120	28
Sb	121	-0.008	ug/L	0.001	16	768	607	2
Sb	123	-0.005	ug/L	0.002	40	575	488	4
Ba	135	2.995	ug/L	0.045	1	23	11591	1
Ba	137	3.001	ug/L	0.023	0	42	20127	0
[> Tb	159		ug/L			1098939	1053557	0
Tl	205	-0.005	ug/L	0.001	22	811	592	6
Pb	208	0.251	ug/L	0.007	2	507	12091	2
Bi	209		ug/L			2742152	2385413	1
Th	232	0.514	ug/L	0.036	7	5672	28660	5
U	238	0.123	ug/L	0.001	1	50	6055	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR88 C REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:54:47

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1871137	1
[Be	9	0.048	ug/L	0.005	10	22	260	9
C	13		ug/L			143235	162861	1
Cl	37		ug/L			4954439	7145144	0
> Sc	45		ug/L			1218098	1299596	2
V	51	39.055	ug/L	1.136	2	9170	1007534	0
V-1	51	39.640	ug/L	1.182	2	105	1001981	1
Cr	52	6.977	ug/L	0.221	3	27160	179848	2
Cr	53	7.795	ug/L	0.206	2	170	18546	0
Mn	55	119.020	ug/L	2.791	2	674	3496997	0
Co	59	0.149	ug/L	0.008	5	88	3262	3
> Ge	72		ug/L			652831	596836	1
Ni	60	0.267	ug/L	0.010	3	35	1053	3
Ni	62	123.843	ug/L	23.245	18	471	66607	17
Cu	63	12.838	ug/L	2.144	16	514	109409	15
Cu	65	1.647	ug/L	0.055	3	55	6378	2
Zn	66	0.791	ug/L	0.013	1	255	2097	1
Zn	67	2.064	ug/L	0.079	3	38	845	5
Zn	68	1.030	ug/L	0.051	4	241	1973	4
As	75	0.589	ug/L	0.022	3	310	1486	1
As-1	75	1.187	ug/L	0.113	9	9967	11560	0
Se	82	0.080	ug/L	0.054	66	4	22	55
Se	78	2.418	ug/L	0.345	14	10138	10693	0
Mo	98	0.277	ug/L	0.006	2	31	1306	3
Y	89		ug/L			399449	414547	1
Kr	83		ug/L			635	755	4
> In	115		ug/L			965468	910132	1
Ag	107	0.009	ug/L	0.002	18	54	151	12
Cd	111	0.028	ug/L	0.004	15	102	220	10
Cd	114	0.003	ug/L	0.002	65	36	69	33
Sb	121	-0.027	ug/L	0.001	4	768	377	4
Sb	123	-0.026	ug/L	0.002	6	575	282	5
Ba	135	2.581	ug/L	0.010	0	23	10123	1
Ba	137	2.535	ug/L	0.029	1	42	17235	0
> Tb	159		ug/L			1098939	1068778	0
Tl	205	-0.014	ug/L	0.000	2	811	289	4
Pb	208	0.095	ug/L	0.001	0	507	4951	0
Bi	209		ug/L			2742152	2468147	0
Th	232	0.048	ug/L	0.002	4	5672	7738	1
U	238	0.045	ug/L	0.001	2	50	2271	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR88 D REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, November 27, 2012 20:58:55

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1858836	0
[Be	9	0.074	ug/L	0.006	7	22	384	7
C	13		ug/L			143235	164601	0
Cl	37		ug/L			4954439	6364060	2
> Sc	45		ug/L			1218098	1311622	0
V	51	53.718	ug/L	1.614	3	9170	1395518	3
V-1	51	54.426	ug/L	1.600	2	105	1389033	3
Cr	52	11.747	ug/L	0.082	0	27160	285690	0
Cr	53	12.622	ug/L	0.097	0	170	30208	0
Mn	55	93.105	ug/L	0.391	0	674	2761968	0
Co	59	0.242	ug/L	0.004	1	88	5277	1
> Ge	72		ug/L			652831	594198	1
Ni	60	0.342	ug/L	0.004	1	35	1332	2
Ni	62	173.066	ug/L	23.323	13	471	92711	13
Cu	63	17.875	ug/L	1.902	10	514	151757	11
Cu	65	3.302	ug/L	0.056	1	55	12677	0
Zn	66	1.143	ug/L	0.020	1	255	2914	2
Zn	67	3.054	ug/L	0.091	2	38	1227	4
Zn	68	1.501	ug/L	0.037	2	241	2762	1
As	75	0.703	ug/L	0.029	4	310	1713	3
As-1	75	1.195	ug/L	0.067	5	9967	11529	0
Se	82	0.308	ug/L	0.129	41	4	72	40
Se	78	2.203	ug/L	0.185	8	10138	10520	0
Mo	98	0.379	ug/L	0.014	3	31	1768	2
Y	89		ug/L			399449	452982	1
Kr	83		ug/L			635	700	8
> In	115		ug/L			965468	902795	1
Ag	107	<i>0.018</i>	ug/L	0.002	8	54	241	6
Cd	111	0.052	ug/L	0.007	13	102	322	8
Cd	114	<i>0.003</i>	ug/L	0.001	29	36	71	14
Sb	121	-0.011	ug/L	0.000	4	768	576	2
Sb	123	-0.012	ug/L	0.003	24	575	415	6
Ba	135	3.200	ug/L	0.025	0	23	12443	0
Ba	137	3.154	ug/L	0.057	1	42	21262	0
> Tb	159		ug/L			1098939	1065108	0
Tl	205	-0.008	ug/L	0.001	9	811	495	5
Pb	208	0.202	ug/L	0.001	0	507	9911	0
Bi	209		ug/L			2742152	2456674	0
Th	232	0.151	ug/L	0.004	2	5672	12388	1
U	238	0.107	ug/L	0.002	1	50	5311	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 ADUP SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:03:02

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1917912	1
[Be	9	0.096	ug/L	0.005	4	22	507	5
C	13		ug/L			143235	194698	0
Cl	37		ug/L			4954439	5263123	0
> Sc	45		ug/L			1218098	1322801	2
V	51	16.597	ug/L	0.375	2	9170	441583	0
V-1	51	16.787	ug/L	0.389	2	105	432001	0
Cr	52	14.891	ug/L	0.125	0	27160	357318	1
Cr	53	15.479	ug/L	0.315	2	170	37312	1
Mn	55	169.912	ug/L	4.211	2	674	5082237	2
Co	59	3.323	ug/L	0.061	1	88	71899	1
> Ge	72		ug/L			652831	618589	1
Ni	60	19.482	ug/L	0.439	2	35	77189	0
Ni	62	59.121	ug/L	11.672	19	471	33280	20
Cu	63	13.406	ug/L	0.618	4	514	118602	5
Cu	65	11.118	ug/L	0.158	1	55	44318	0
Zn	66	65.463	ug/L	0.353	0	255	160147	1
Zn	67	64.436	ug/L	0.698	1	38	26218	0
Zn	68	63.025	ug/L	2.042	3	241	111384	2
As	75	2.025	ug/L	0.036	1	310	4583	0
As-1	75	2.162	ug/L	0.042	1	9967	14071	1
Se	82	0.003	ug/L	0.102	3273	4	4	479
Se	78	0.703	ug/L	0.034	4	10138	10036	1
Mo	98	0.119	ug/L	0.008	6	31	601	4
Y	89		ug/L			399449	462208	1
Kr	83		ug/L			635	718	4
> In	115		ug/L			965468	964946	1
Ag	107	0.029	ug/L	0.004	12	54	391	11
Cd	111	0.143	ug/L	0.006	3	102	771	2
Cd	114	0.117	ug/L	0.004	3	36	1425	2
Sb	121	-0.037	ug/L	0.001	3	768	251	6
Sb	123	-0.037	ug/L	0.002	4	575	186	9
Ba	135	33.899	ug/L	0.580	1	23	140658	0
Ba	137	33.741	ug/L	0.973	2	42	242640	1
> Tb	159		ug/L			1098939	1100979	1
Tl	205	0.012	ug/L	0.001	12	811	1259	5
Pb	208	7.574	ug/L	0.047	0	507	365872	0
Bi	209		ug/L			2742152	2740425	0
Th	232	0.314	ug/L	0.004	1	5672	20522	0
U	238	0.134	ug/L	0.003	2	50	6863	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:07:10

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1997974	3
[Be	9	0.091	ug/L	0.008	8	22	501	5
C	13		ug/L			143235	184056	2
Cl	37		ug/L			4954439	5252699	2
> Sc	45		ug/L			1218098	1340578	1
V	51	15.527	ug/L	0.518	3	9170	419412	3
V-1	51	15.733	ug/L	0.498	3	105	410424	3
Cr	52	14.324	ug/L	0.183	1	27160	349469	1
Cr	53	14.986	ug/L	0.392	2	170	36615	1
Mn	55	171.185	ug/L	2.007	1	674	5189167	0
Co	59	3.352	ug/L	0.123	3	88	73497	2
> Ge	72		ug/L			652831	637207	1
Ni	60	19.059	ug/L	0.324	1	35	77795	0
Ni	62	35.506	ug/L	2.788	7	471	20752	7
Cu	63	11.296	ug/L	0.266	2	514	102983	1
Cu	65	10.518	ug/L	0.073	0	55	43196	1
Zn	66	60.048	ug/L	1.115	1	255	151337	1
Zn	67	59.352	ug/L	2.091	3	38	24875	2
Zn	68	59.181	ug/L	2.426	4	241	107743	3
As	75	1.980	ug/L	0.037	1	310	4622	0
As-1	75	1.968	ug/L	0.056	2	9967	14067	0
Se	82	0.013	ug/L	0.054	426	4	7	172
Se	78	0.178	ug/L	0.079	44	10138	10008	0
Mo	98	0.112	ug/L	0.002	1	31	581	2
Y	89		ug/L			399449	467301	2
Kr	83		ug/L			635	729	3
> In	115		ug/L			965468	983886	1
Ag	107	0.031	ug/L	0.001	4	54	421	4
Cd	111	0.147	ug/L	0.000	0	102	807	1
Cd	114	0.111	ug/L	0.004	3	36	1382	4
Sb	121	-0.028	ug/L	0.001	2	768	388	1
Sb	123	-0.026	ug/L	0.001	2	575	311	2
Ba	135	31.845	ug/L	0.460	1	23	134739	0
Ba	137	31.738	ug/L	0.642	2	42	232762	1
> Tb	159		ug/L			1098939	1119033	0
Tl	205	0.008	ug/L	0.001	9	811	1133	2
Pb	208	10.002	ug/L	0.052	0	507	490922	0
Bi	209		ug/L			2742152	2781243	0
Th	232	0.322	ug/L	0.004	1	5672	21248	1
U	238	0.127	ug/L	0.002	1	50	6619	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 ASPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:11:17

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			1766731	1942462	1
[Be	9	24.350	ug/L	0.398	1	22	123929	1
C	13		ug/L			143235	183229	1
Cl	37		ug/L			4954439	5297150	1
[> Sc	45		ug/L			1218098	1351371	2
V	51	37.974	ug/L	1.136	2	9170	1018902	0
V-1	51	38.365	ug/L	1.138	2	105	1008372	1
Cr	52	36.606	ug/L	1.674	4	27160	853026	2
Cr	53	37.894	ug/L	1.023	2	170	93024	0
Mn	55	193.478	ug/L	3.705	1	674	5911092	1
Co	59	24.975	ug/L	0.585	2	88	551520	2
[> Ge	72		ug/L			652831	636764	1
Ni	60	45.343	ug/L	1.060	2	35	184891	1
Ni	62	53.068	ug/L	1.493	2	471	30762	2
Cu	63	35.472	ug/L	0.620	1	514	322104	1
Cu	65	34.753	ug/L	0.441	1	55	142515	2
Zn	66	139.681	ug/L	2.929	2	255	351416	0
Zn	67	133.604	ug/L	2.512	1	38	55932	3
Zn	68	139.157	ug/L	1.372	0	241	252901	0
As	75	26.141	ug/L	1.107	4	310	57299	3
As-1	75	25.512	ug/L	0.956	3	9967	65934	2
Se	82	80.226	ug/L	1.231	1	4	19137	1
Se	78	76.123	ug/L	0.868	1	10138	57800	0
Mo	98	0.134	ug/L	0.008	5	31	688	5
Y	89		ug/L			399449	469559	1
Kr	83		ug/L			635	747	3
[> In	115		ug/L			965468	975866	1
Ag	107	23.633	ug/L	0.184	0	54	274102	0
Cd	111	23.918	ug/L	0.393	1	102	113352	0
Cd	114	23.600	ug/L	0.160	0	36	282826	0
Sb	121	-0.016	ug/L	0.001	4	768	556	2
Sb	123	-0.013	ug/L	0.002	14	575	446	3
Ba	135	55.497	ug/L	0.508	0	23	232891	0
Ba	137	55.294	ug/L	1.046	1	42	402187	1
[> Tb	159		ug/L			1098939	1098800	0
Tl	205	22.037	ug/L	0.390	1	811	837642	1
Pb	208	31.823	ug/L	0.156	0	507	1532550	0
Bi	209		ug/L			2742152	2720460	2
Th	232	21.432	ug/L	0.121	0	5672	1016347	0
U	238	21.817	ug/L	0.131	0	50	1111083	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:16:29

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1942778	0
[Be	9	0.054	ug/L	0.003	4	22	301	4
C	13		ug/L			143235	197292	2
Cl	37		ug/L			4954439	5253747	1
> Sc	45		ug/L			1218098	1307353	1
V	51	8.907	ug/L	0.131	1	9170	238856	2
V-1	51	9.006	ug/L	0.145	1	105	229198	2
Cr	52	7.893	ug/L	0.111	1	27160	200904	1
Cr	53	8.195	ug/L	0.122	1	170	19613	1
Mn	55	215.818	ug/L	0.940	0	674	6380382	0
Co	59	1.822	ug/L	0.032	1	88	39019	0
> Ge	72		ug/L			652831	630944	2
Ni	60	8.485	ug/L	0.045	0	35	34315	1
Ni	62	11.019	ug/L	0.618	5	471	6693	6
Cu	63	18.551	ug/L	0.588	3	514	167134	3
Cu	65	18.876	ug/L	0.030	0	55	76716	2
Zn	66	68.067	ug/L	1.270	1	255	169816	2
Zn	67	63.300	ug/L	1.605	2	38	26271	3
Zn	68	66.431	ug/L	0.869	1	241	119735	0
As	75	3.237	ug/L	0.072	2	310	7291	0
As-1	75	3.226	ug/L	0.138	4	9967	16672	0
Se	82	u 0.057	ug/L	0.008	14	4	17	12
Se	78	0.215	ug/L	0.321	149	10138	9929	1
Mo	98	0.127	ug/L	0.011	8	31	647	6
Y	89		ug/L			399449	438126	2
Kr	83		ug/L			635	677	2
> In	115		ug/L			965468	956225	0
Ag	107	0.027	ug/L	0.002	6	54	365	5
Cd	111	0.154	ug/L	0.011	7	102	817	6
Cd	114	0.141	ug/L	0.003	1	36	1697	1
Sb	121	-0.006	ug/L	0.001	10	768	675	1
Sb	123	-0.004	ug/L	0.004	91	575	529	6
Ba	135	27.646	ug/L	0.298	1	23	113699	1
Ba	137	27.143	ug/L	0.264	0	42	193499	0
> Tb	159		ug/L			1098939	1098901	1
Tl	205	0.001	ug/L	0.001	93	811	845	2
Pb	208	8.099	ug/L	0.138	1	507	390390	0
Bi	209		ug/L			2742152	2728684	1
Th	232	0.217	ug/L	0.016	7	5672	15912	4
U	238	0.101	ug/L	0.002	2	50	5184	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:20:36

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1928911	1
[Be	9	0.077	ug/L	0.007	9	22	413	9
C	13		ug/L			143235	190189	0
Cl	37		ug/L			4954439	5170518	0
> Sc	45		ug/L			1218098	1320619	1
V	51	12.801	ug/L	0.406	3	9170	342267	1
V-1	51	12.975	ug/L	0.449	3	105	333338	1
Cr	52	11.015	ug/L	0.105	0	27160	271539	1
Cr	53	11.545	ug/L	0.228	1	170	27828	0
Mn	55	172.029	ug/L	6.349	3	674	5135479	2
Co	59	2.627	ug/L	0.103	3	88	56779	3
> Ge	72		ug/L			652831	627953	0
Ni	60	12.278	ug/L	0.090	0	35	49405	0
Ni	62	13.463	ug/L	0.317	2	471	8035	1
Cu	63	13.943	ug/L	0.203	1	514	125164	1
Cu	65	14.278	ug/L	0.399	2	55	57769	2
Zn	66	56.464	ug/L	0.871	1	255	140252	1
Zn	67	53.660	ug/L	1.029	1	38	22170	1
Zn	68	55.359	ug/L	0.049	0	241	99363	0
As	75	2.727	ug/L	0.054	1	310	6163	1
As-1	75	2.767	ug/L	0.111	4	9967	15600	0
Se	82	u 0.081	ug/L	0.023	28	4	23	23
Se	78	0.439	ug/L	0.202	46	10138	10023	0
Mo	98	0.145	ug/L	0.003	2	31	735	1
Y	89		ug/L			399449	467183	2
Kr	83		ug/L			635	706	2
> In	115		ug/L			965468	970970	1
Ag	107	0.032	ug/L	0.001	2	54	426	2
Cd	111	0.180	ug/L	0.008	4	102	951	3
Cd	114	0.152	ug/L	0.004	2	36	1845	1
Sb	121	-0.016	ug/L	0.001	9	768	551	4
Sb	123	-0.015	ug/L	0.003	17	575	424	5
Ba	135	34.060	ug/L	0.678	1	23	142209	1
Ba	137	34.072	ug/L	1.084	3	42	246562	2
> Tb	159		ug/L			1098939	1095217	1
Tl	205	0.006	ug/L	0.001	14	811	1036	2
Pb	208	7.502	ug/L	0.064	0	507	360479	0
Bi	209		ug/L			2742152	2716453	0
Th	232	0.256	ug/L	0.005	2	5672	17662	0
U	238	0.156	ug/L	0.001	0	50	7984	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV11

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:24:45

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1871458	2
[Be	9	50.904	ug/L	1.061	2	22	249547	1
C	13		ug/L			143235	153576	3
Cl	37		ug/L			4954439	5191738	2
> Sc	45		ug/L			1218098	1227189	2
V	51	47.624	ug/L	0.498	1	9170	1158435	1
V-1	51	48.188	ug/L	0.659	1	105	1150401	0
Cr	52	47.386	ug/L	0.751	1	27160	995040	1
Cr	53	49.310	ug/L	1.564	3	170	109870	1
Mn	55	47.983	ug/L	1.033	2	674	1331700	0
Co	59	46.356	ug/L	0.874	1	88	929435	1
> Ge	72		ug/L			652831	604308	2
Ni	60	50.087	ug/L	0.368	0	35	193838	1
Ni	62	51.395	ug/L	1.855	3	471	28282	2
Cu	63	50.167	ug/L	1.431	2	514	432001	1
Cu	65	50.653	ug/L	1.594	3	55	197032	2
Zn	66	51.878	ug/L	1.579	3	255	123974	0
Zn	67	51.839	ug/L	1.969	3	38	20603	2
Zn	68	51.425	ug/L	1.746	3	241	88798	1
As	75	51.533	ug/L	1.196	2	310	106895	0
As-1	75	50.786	ug/L	1.292	2	9967	115394	0
Se	82	54.488	ug/L	1.282	2	4	12333	0
Se	78	51.777	ug/L	1.590	3	10138	40300	0
Mo	98	52.664	ug/L	1.977	3	31	246136	1
Y	89		ug/L			399449	385789	3
Kr	83		ug/L			635	641	0
> In	115		ug/L			965468	924164	1
Ag	107	53.853	ug/L	0.939	1	54	591509	2
Cd	111	51.632	ug/L	0.875	1	102	231627	1
Cd	114	51.303	ug/L	0.550	1	36	582179	0
Sb	121	51.730	ug/L	0.721	1	768	687880	0
Sb	123	51.318	ug/L	0.717	1	575	516576	0
Ba	135	50.247	ug/L	0.532	1	23	199689	0
Ba	137	49.557	ug/L	0.895	1	42	341375	1
> Tb	159		ug/L			1098939	1053094	0
Tl	205	46.679	ug/L	0.685	1	811	1699641	1
Pb	208	48.253	ug/L	0.393	0	507	2226829	0
Bi	209		ug/L			2742152	2610665	0
Th	232	53.413	ug/L	0.622	1	5672	2419456	0
U	238	53.459	ug/L	0.765	1	50	2609006	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB11

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:31:38

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1822930	1
Be	9	-0.002	ug/L	0.001	43	22	14	27
C	13		ug/L			143235	155804	0
Cl	37		ug/L			4954439	5165852	1
> Sc	45		ug/L			1218098	1181777	2
V	51	0.001	ug/L	0.010	1080	9170	8913	0
V-1	51	-0.000	ug/L	0.001	326	105	92	33
Cr	52	0.001	ug/L	0.036	4793	27160	26352	0
Cr	53	-0.004	ug/L	0.007	176	170	157	6
Mn	55	0.003	ug/L	0.009	259	674	744	31
Co	59	-0.000	ug/L	0.001	487	88	83	10
> Ge	72		ug/L			652831	597682	1
Ni	60	0.002	ug/L	0.001	33	35	41	8
Ni	62	-0.151	ug/L	0.130	86	471	350	20
Cu	63	-0.008	ug/L	0.006	82	514	403	12
Cu	65	-0.001	ug/L	0.002	151	55	46	16
Zn	66	-0.031	ug/L	0.007	22	255	160	9
Zn	67	-0.027	ug/L	0.006	21	38	25	10
Zn	68	-0.017	ug/L	0.011	67	241	192	9
As	75	0.010	ug/L	0.023	240	310	303	14
As-1	75	0.279	ug/L	0.063	22	9967	9702	0
Se	82	-0.016	ug/L	0.103	627	4	0	7416
Se	78	0.969	ug/L	0.204	21	10138	9853	0
Mo	98	0.006	ug/L	0.001	20	31	56	9
Y	89		ug/L			399449	374537	1
Kr	83		ug/L			635	614	5
> In	115		ug/L			965468	902714	0
Ag	107	-0.000	ug/L	0.001	1244	54	49	28
Cd	111	0.001	ug/L	0.003	208	102	102	12
Cd	114	0.002	ug/L	0.003	144	36	58	59
Sb	121	0.011	ug/L	0.011	98	768	858	15
Sb	123	0.011	ug/L	0.009	75	575	648	12
Ba	135	0.002	ug/L	0.005	258	23	29	68
Ba	137	0.003	ug/L	0.004	156	42	58	49
> Tb	159		ug/L			1098939	1021942	1
Tl	205	-0.017	ug/L	0.002	10	811	151	41
Pb	208	-0.001	ug/L	0.002	266	507	442	18
Bi	209		ug/L			2742152	2601950	0
Th	232	0.010	ug/L	0.010	99	5672	5718	6
U	238	0.001	ug/L	0.001	68	50	106	38

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:35:47

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1979253	3
[Be	9	0.073	ug/L	0.000	0	22	405	4
C	13		ug/L			143235	188602	1
Cl	37		ug/L			4954439	5182951	1
> Sc	45		ug/L			1218098	1347285	1
V	51	10.960	ug/L	0.071	0	9170	300511	0
V-1	51	11.075	ug/L	0.117	1	105	290414	1
Cr	52	10.284	ug/L	0.138	1	27160	260628	0
Cr	53	10.656	ug/L	0.205	1	170	26222	1
Mn	55	183.975	ug/L	4.641	2	674	5603947	1
Co	59	2.107	ug/L	0.069	3	88	46465	2
> Ge	72		ug/L			652831	636378	0
Ni	60	10.484	ug/L	0.288	2	35	42752	2
Ni	62	10.365	ug/L	0.163	1	471	6375	1
Cu	63	14.961	ug/L	0.183	1	514	136071	0
Cu	65	15.225	ug/L	0.140	0	55	62420	1
Zn	66	49.092	ug/L	0.774	1	255	123610	1
Zn	67	46.505	ug/L	0.379	0	38	19478	1
Zn	68	47.599	ug/L	0.280	0	241	86612	0
As	75	2.333	ug/L	0.039	1	310	5387	1
As-1	75	2.309	ug/L	0.036	1	9967	14801	0
Se	82	0.150	ug/L	0.027	17	4	40	15
Se	78	0.239	ug/L	0.066	27	10138	10033	0
Mo	98	0.117	ug/L	0.002	1	31	607	2
Y	89		ug/L			399449	456411	2
Kr	83		ug/L			635	695	7
> In	115		ug/L			965468	965145	0
Ag	107	0.031	ug/L	0.002	5	54	404	3
Cd	111	0.162	ug/L	0.013	7	102	859	6
Cd	114	0.142	ug/L	0.003	2	36	1725	2
Sb	121	-0.023	ug/L	0.002	7	768	451	4
Sb	123	-0.023	ug/L	0.005	21	575	335	14
Ba	135	30.457	ug/L	0.376	1	23	126425	1
Ba	137	29.874	ug/L	0.409	1	42	214937	0
> Tb	159		ug/L			1098939	1094857	1
Tl	205	0.006	ug/L	0.001	19	811	1025	3
Pb	208	6.881	ug/L	0.076	1	507	330572	0
Bi	209		ug/L			2742152	2731781	0
Th	232	0.312	ug/L	0.011	3	5672	20302	3
U	238	0.151	ug/L	0.002	1	50	7699	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:39:55

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1927404	1
[Be	9	0.077	ug/L	0.007	9	22	412	7
C	13		ug/L			143235	195985	2
Cl	37		ug/L			4954439	5146914	0
> Sc	45		ug/L			1218098	1307331	1
V	51	12.409	ug/L	0.366	2	9170	328800	1
V-1	51	12.632	ug/L	0.420	3	105	321331	2
Cr	52	11.570	ug/L	0.159	1	27160	280922	2
Cr	53	12.305	ug/L	0.106	0	170	29355	0
Mn	55	202.098	ug/L	6.395	3	674	5973438	2
Co	59	2.427	ug/L	0.060	2	88	51940	1
> Ge	72		ug/L			652831	630128	1
Ni	60	10.933	ug/L	0.155	1	35	44153	2
Ni	62	11.365	ug/L	0.369	3	471	6879	4
Cu	63	15.041	ug/L	0.242	1	514	135447	1
Cu	65	15.306	ug/L	0.240	1	55	62136	1
Zn	66	51.360	ug/L	0.564	1	255	128039	0
Zn	67	49.506	ug/L	0.658	1	38	20530	2
Zn	68	50.687	ug/L	1.016	2	241	91298	0
As	75	2.511	ug/L	0.042	1	310	5717	0
As-1	75	2.520	ug/L	0.083	3	9967	15116	0
Se	82	0.131	ug/L	0.017	13	4	35	10
Se	78	0.385	ug/L	0.190	49	10138	10025	1
Mo	98	0.126	ug/L	0.001	0	31	642	1
Y	89		ug/L			399449	455867	1
Kr	83		ug/L			635	720	1
> In	115		ug/L			965468	979485	0
Ag	107	0.034	ug/L	0.000	1	54	445	1
Cd	111	0.184	ug/L	0.005	2	102	979	1
Cd	114	0.157	ug/L	0.006	3	36	1925	3
Sb	121	-0.026	ug/L	0.003	12	768	411	12
Sb	123	-0.026	ug/L	0.001	4	575	303	5
Ba	135	32.568	ug/L	0.882	2	23	137176	1
Ba	137	32.283	ug/L	0.554	1	42	235711	1
> Tb	159		ug/L			1098939	1091553	1
Tl	205	0.007	ug/L	0.000	6	811	1056	2
Pb	208	7.107	ug/L	0.040	0	507	340390	0
Bi	209		ug/L			2742152	2729786	0
Th	232	0.291	ug/L	0.002	0	5672	19272	1
U	238	0.160	ug/L	0.002	1	50	8142	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 F SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:44:02

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			1766731	1956726	0
[Be	9	0.102	ug/L	0.011	10	22	546	9
C	13		ug/L			143235	205357	0
Cl	37		ug/L			4954439	5389051	3
[> Sc	45		ug/L			1218098	1343753	0
V	51	16.330	ug/L	0.348	2	9170	441614	1
V-1	51	16.522	ug/L	0.426	2	105	432021	1
Cr	52	15.587	ug/L	0.227	1	27160	378600	1
Cr	53	16.219	ug/L	0.064	0	170	39714	0
Mn	55	182.499	ug/L	1.092	0	674	5545842	1
Co	59	3.661	ug/L	0.119	3	88	80495	3
[> Ge	72		ug/L			652831	629511	1
Ni	60	16.708	ug/L	0.464	2	35	67370	1
Ni	62	17.232	ug/L	0.722	4	471	10179	2
Cu	63	29.201	ug/L	0.577	1	514	262223	1
Cu	65	29.560	ug/L	0.174	0	55	119835	1
Zn	66	70.940	ug/L	1.740	2	255	176584	2
Zn	67	67.317	ug/L	1.033	1	38	27873	1
Zn	68	69.388	ug/L	1.816	2	241	124794	2
As	75	3.424	ug/L	0.039	1	310	7679	0
As-1	75	3.453	ug/L	0.065	1	9967	17133	0
Se	82	a 0.065	ug/L	0.022	34	4	19	28
Se	78	0.456	ug/L	0.150	32	10138	10059	0
Mo	98	0.193	ug/L	0.017	8	31	970	7
Y	89		ug/L			399449	469645	3
Kr	83		ug/L			635	743	3
[> In	115		ug/L			965468	961861	1
Ag	107	0.052	ug/L	0.002	4	54	646	4
Cd	111	0.256	ug/L	0.014	5	102	1295	5
Cd	114	0.208	ug/L	0.002	1	36	2489	1
Sb	121	-0.016	ug/L	0.004	22	768	538	8
Sb	123	-0.017	ug/L	0.003	15	575	399	6
Ba	135	34.596	ug/L	0.167	0	23	143112	0
Ba	137	34.819	ug/L	0.411	1	42	249656	0
[> Tb	159		ug/L			1098939	1085007	1
Tl	205	0.010	ug/L	0.001	10	811	1188	4
Pb	208	9.980	ug/L	0.087	0	507	474893	0
Bi	209		ug/L			2742152	2689820	0
Th	232	0.343	ug/L	0.009	2	5672	21592	0
U	238	0.171	ug/L	0.002	1	50	8653	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 G SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:48:10

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1960421	1
[Be	9	0.085	ug/L	0.003	4	22	462	4
C	13		ug/L			143235	183479	1
Cl	37		ug/L			4954439	5193332	0
> Sc	45		ug/L			1218098	1355023	1
V	51	16.580	ug/L	0.356	2	9170	452002	2
V-1	51	16.832	ug/L	0.518	3	105	443871	3
Cr	52	16.614	ug/L	0.355	2	27160	404841	0
Cr	53	17.480	ug/L	0.380	2	170	43146	2
Mn	55	131.158	ug/L	4.719	3	674	4017703	2
Co	59	3.887	ug/L	0.015	0	88	86169	1
> Ge	72		ug/L			652831	627282	2
Ni	60	16.500	ug/L	0.522	3	35	66288	1
Ni	62	17.811	ug/L	0.078	0	471	10472	1
Cu	63	4.498	ug/L	0.092	2	514	40657	0
Cu	65	4.752	ug/L	0.119	2	55	19234	1
Zn	66	42.197	ug/L	1.565	3	255	104714	1
Zn	67	41.771	ug/L	1.096	2	38	17245	2
Zn	68	41.911	ug/L	1.451	3	241	75166	1
As	75	2.262	ug/L	0.054	2	310	5155	0
As-1	75	2.332	ug/L	0.131	5	9967	14636	0
Se	82	-0.094	ug/L	0.045	48	4	-17	62
Se	78	0.404	ug/L	0.358	88	10138	9989	0
Mo	98	0.050	ug/L	0.001	2	31	270	0
Y	89		ug/L			399449	468044	2
Kr	83		ug/L			635	741	1
> In	115		ug/L			965468	955759	0
Ag	107	0.014	ug/L	0.000	2	54	211	2
Cd	111	0.097	ug/L	0.001	0	102	549	0
Cd	114	0.075	ug/L	0.005	6	36	915	6
Sb	121	-0.042	ug/L	0.001	3	768	185	10
Sb	123	-0.038	ug/L	0.003	6	575	174	14
Ba	135	36.352	ug/L	0.249	0	23	149422	0
Ba	137	35.955	ug/L	0.239	0	42	256188	1
> Tb	159		ug/L			1098939	1085545	0
Tl	205	0.014	ug/L	0.001	4	811	1344	1
Pb	208	5.724	ug/L	0.018	0	507	272748	0
Bi	209		ug/L			2742152	2700044	0
Th	232	0.306	ug/L	0.004	1	5672	19857	0
U	238	0.106	ug/L	0.004	3	50	5368	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 H SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:52:17

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1951297	1
[Be	9	0.113	ug/L	0.004	3	22	605	4
C	13		ug/L			143235	183082	1
Cl	37		ug/L			4954439	5318930	1
> Sc	45		ug/L			1218098	1374380	2
V	51	19.898	ug/L	0.617	3	9170	547861	0
V-1	51	20.185	ug/L	0.595	2	105	539557	0
Cr	52	17.729	ug/L	0.814	4	27160	435904	2
Cr	53	18.632	ug/L	0.813	4	170	46601	2
Mn	55	161.005	ug/L	4.328	2	674	5001932	1
Co	59	4.316	ug/L	0.116	2	88	97014	3
> Ge	72		ug/L			652831	631580	0
Ni	60	21.468	ug/L	0.280	1	35	86854	0
Ni	62	21.954	ug/L	0.140	0	471	12891	0
Cu	63	4.946	ug/L	0.153	3	514	44971	2
Cu	65	5.072	ug/L	0.060	1	55	20673	1
Zn	66	36.918	ug/L	0.798	2	255	92312	1
Zn	67	36.541	ug/L	0.395	1	38	15197	0
Zn	68	36.333	ug/L	1.194	3	241	65657	2
As	75	2.242	ug/L	0.059	2	310	5148	1
As-1	75	2.236	ug/L	0.071	3	9967	14529	0
Se	82	-0.069	ug/L	0.025	36	4	-12	51
Se	78	0.222	ug/L	0.093	42	10138	9946	0
Mo	98	0.058	ug/L	0.003	4	31	313	3
Y	89		ug/L			399449	475994	2
Kr	83		ug/L			635	793	1
> In	115		ug/L			965468	959291	1
Ag	107	0.017	ug/L	0.002	12	54	242	9
Cd	111	0.069	ug/L	0.003	4	102	423	3
Cd	114	0.045	ug/L	0.002	3	36	561	2
Sb	121	-0.046	ug/L	0.000	0	768	133	2
Sb	123	-0.045	ug/L	0.001	3	575	105	13
Ba	135	30.434	ug/L	0.120	0	23	125562	0
Ba	137	30.299	ug/L	0.155	0	42	216679	0
> Tb	159		ug/L			1098939	1084386	1
Tl	205	0.010	ug/L	0.001	10	811	1181	2
Pb	208	3.347	ug/L	0.034	1	507	159516	0
Bi	209		ug/L			2742152	2673515	0
Th	232	0.509	ug/L	0.004	0	5672	29301	0
U	238	0.124	ug/L	0.004	3	50	6265	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 I SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 21:56:25

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1923853	1
[Be	9	0.147	ug/L	0.005	3	22	765	2
C	13		ug/L			143235	194894	0
Cl	37		ug/L			4954439	5221170	1
> Sc	45		ug/L			1218098	1365133	0
V	51	21.132	ug/L	0.304	1	9170	577549	0
V-1	51	21.348	ug/L	0.336	1	105	567079	0
Cr	52	21.514	ug/L	0.327	1	27160	519246	1
Cr	53	22.271	ug/L	0.482	2	170	55326	1
Mn	55	230.606	ug/L	2.280	0	674	7118837	1
Co	59	2.901	ug/L	0.045	1	88	64808	1
> Ge	72		ug/L			652831	629978	0
Ni	60	17.096	ug/L	0.224	1	35	68996	0
Ni	62	17.172	ug/L	0.465	2	471	10156	2
Cu	63	6.415	ug/L	0.184	2	514	58031	2
Cu	65	6.549	ug/L	0.029	0	55	26612	0
Zn	66	32.453	ug/L	0.655	2	255	80974	1
Zn	67	35.286	ug/L	0.162	0	38	14639	0
Zn	68	33.665	ug/L	0.390	1	241	60709	0
As	75	1.993	ug/L	0.048	2	310	4598	2
As-1	75	2.017	ug/L	0.069	3	9967	14015	1
Se	82	u 0.143	ug/L	0.031	21	4	38	19
Se	78	0.498	ug/L	0.090	18	10138	10093	0
Mo	98	0.163	ug/L	0.003	1	31	823	1
Y	89		ug/L			399449	504133	2
Kr	83		ug/L			635	773	1
> In	115		ug/L			965468	951082	0
Ag	107	0.028	ug/L	0.002	5	54	374	5
Cd	111	0.092	ug/L	0.009	9	102	526	6
Cd	114	0.045	ug/L	0.002	3	36	565	2
Sb	121	-0.043	ug/L	0.002	3	768	174	12
Sb	123	-0.042	ug/L	0.001	3	575	133	11
Ba	135	61.184	ug/L	0.820	1	23	250230	0
Ba	137	59.971	ug/L	0.437	0	42	425164	0
> Tb	159		ug/L			1098939	1084661	0
Tl	205	0.023	ug/L	0.001	6	811	1677	2
Pb	208	3.093	ug/L	0.022	0	507	147489	0
Bi	209		ug/L			2742152	2680150	0
Th	232	0.613	ug/L	0.007	1	5672	34138	0
U	238	0.312	ug/L	0.007	2	50	15715	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR58 J SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 22:00:32

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1914359	1
[Be	9	0.103	ug/L	0.002	1	22	540	0
C	13		ug/L			143235	171605	1
Cl	37		ug/L			4954439	5216088	1
> Sc	45		ug/L			1218098	1343573	1
V	51	18.259	ug/L	0.321	1	9170	492571	2
V-1	51	18.588	ug/L	0.251	1	105	486003	1
Cr	52	17.285	ug/L	0.429	2	27160	416497	2
Cr	53	18.377	ug/L	0.313	1	170	44963	1
Mn	55	188.657	ug/L	1.957	1	674	5731799	1
[Co	59	4.195	ug/L	0.088	2	88	92176	0
> Ge	72		ug/L			652831	628211	2
Ni	60	20.447	ug/L	0.428	2	35	82277	2
Ni	62	20.112	ug/L	0.763	3	471	11778	1
Cu	63	7.341	ug/L	0.154	2	514	66144	0
Cu	65	7.372	ug/L	0.045	0	55	29865	1
Zn	66	37.182	ug/L	0.474	1	255	92468	1
Zn	67	36.827	ug/L	1.079	2	38	15228	0
Zn	68	36.598	ug/L	1.003	2	241	65777	2
As	75	2.720	ug/L	0.031	1	310	6149	1
As-1	75	2.754	ug/L	0.115	4	9967	15575	0
Se	82	-0.001	ug/L	0.044	5045	4	4	252
Se	78	0.366	ug/L	0.339	92	10138	9980	0
[Mo	98	0.047	ug/L	0.003	6	31	260	3
Y	89		ug/L			399449	460259	1
Kr	83		ug/L			635	729	4
> In	115		ug/L			965468	943594	0
Ag	107	0.016	ug/L	0.000	0	54	236	0
Cd	111	0.074	ug/L	0.006	7	102	439	5
Cd	114	0.050	ug/L	0.002	4	36	609	3
Sb	121	-0.045	ug/L	0.001	1	768	143	6
Sb	123	-0.042	ug/L	0.002	4	575	128	12
Ba	135	30.059	ug/L	0.334	1	23	121980	0
[Ba	137	29.731	ug/L	0.366	1	42	209131	0
> Tb	159		ug/L			1098939	1074692	1
Tl	205	0.003	ug/L	0.000	5	811	919	1
Pb	208	3.396	ug/L	0.024	0	507	160392	1
Bi	209		ug/L			2742152	2650627	0
Th	232	0.360	ug/L	0.011	2	5672	22150	1
[U	238	0.122	ug/L	0.001	0	50	6105	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 22:04:40

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1939288	1
[Be	9	0.084	ug/L	0.006	7	22	451	5
C	13		ug/L			143235	191454	3
Cl	37		ug/L			4954439	5134524	1
> Sc	45		ug/L			1218098	1364143	1
V	51	12.857	ug/L	0.316	2	9170	355135	1
V-1	51	13.042	ug/L	0.320	2	105	346180	1
Cr	52	12.796	ug/L	0.309	2	27160	320936	2
Cr	53	13.427	ug/L	0.310	2	170	33401	0
Mn	55	183.688	ug/L	7.027	3	674	5664468	2
Co	59	2.725	ug/L	0.043	1	88	60823	0
> Ge	72		ug/L			652831	636471	0
Ni	60	12.914	ug/L	0.335	2	35	52663	2
Ni	62	12.672	ug/L	0.306	2	471	7692	1
Cu	63	23.943	ug/L	0.729	3	514	217474	2
Cu	65	23.580	ug/L	0.187	0	55	96663	1
Zn	66	60.907	ug/L	1.268	2	255	153320	1
Zn	67	58.069	ug/L	0.459	0	38	24315	0
Zn	68	60.637	ug/L	1.930	3	241	110287	3
As	75	3.400	ug/L	0.035	1	310	7712	1
As-1	75	3.425	ug/L	0.030	0	9967	17262	1
Se	82	0.063	ug/L	0.040	64	4	19	49
Se	78	0.448	ug/L	0.147	32	10138	10165	0
Mo	98	0.179	ug/L	0.005	2	31	912	3
Y	89		ug/L			399449	458597	1
Kr	83		ug/L			635	759	5
> In	115		ug/L			965468	955767	1
Ag	107	0.039	ug/L	0.003	6	54	495	5
Cd	111	0.342	ug/L	0.018	5	102	1689	3
Cd	114	0.305	ug/L	0.009	2	36	3610	2
Sb	121	-0.019	ug/L	0.003	15	768	505	9
Sb	123	-0.017	ug/L	0.003	19	575	398	9
Ba	135	33.410	ug/L	0.256	0	23	137325	0
Ba	137	33.132	ug/L	0.827	2	42	236018	1
> Tb	159		ug/L			1098939	1084680	1
Tl	205	0.007	ug/L	0.002	23	811	1048	4
Pb	208	14.739	ug/L	0.182	1	507	700886	0
Bi	209		ug/L			2742152	2679731	0
Th	232	0.300	ug/L	0.008	2	5672	19579	0
U	238	0.161	ug/L	0.005	3	50	8117	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: VR82 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, November 27, 2012 22:09:51

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1941189	2
[Be	9	0.076	ug/L	0.004	5	22	413	6
C	13		ug/L			143235	198552	1
Cl	37		ug/L			4954439	5202721	2
> Sc	45		ug/L			1218098	1335410	1
V	51	12.382	ug/L	0.215	1	9170	335170	0
V-1	51	12.604	ug/L	0.149	1	105	327538	0
Cr	52	11.696	ug/L	0.391	3	27160	289637	1
Cr	53	12.431	ug/L	0.229	1	170	30288	1
Mn	55	235.903	ug/L	2.333	0	674	7123598	1
Co	59	2.423	ug/L	0.069	2	88	52943	1
> Ge	72		ug/L			652831	626793	1
Ni	60	11.615	ug/L	0.294	2	35	46642	1
Ni	62	11.658	ug/L	0.215	1	471	7004	1
Cu	63	24.048	ug/L	0.677	2	514	215070	1
Cu	65	24.092	ug/L	0.320	1	55	97246	0
Zn	66	69.545	ug/L	1.821	2	255	172334	1
Zn	67	67.197	ug/L	0.976	1	38	27700	0
Zn	68	69.194	ug/L	1.680	2	241	123875	0
As	75	3.025	ug/L	0.069	2	310	6790	0
As-1	75	3.086	ug/L	0.112	3	9967	16260	0
Se	82	u 0.159	ug/L	0.089	55	4	41	49
Se	78	0.588	ug/L	0.164	27	10138	10097	0
Mo	98	0.140	ug/L	0.005	3	31	707	2
Y	89		ug/L			399449	465504	1
Kr	83		ug/L			635	700	4
> In	115		ug/L			965468	968821	0
Ag	107	0.037	ug/L	0.001	2	54	477	1
Cd	111	0.268	ug/L	0.010	3	102	1365	3
Cd	114	0.246	ug/L	0.004	1	36	2963	2
Sb	121	-0.025	ug/L	0.001	4	768	417	4
Sb	123	-0.026	ug/L	0.001	4	575	305	4
Ba	135	35.583	ug/L	0.374	1	23	148261	0
Ba	137	35.676	ug/L	0.516	1	42	257660	1
> Tb	159		ug/L			1098939	1095941	0
Tl	205	0.005	ug/L	0.000	7	811	1010	1
Pb	208	10.025	ug/L	0.019	0	507	481862	0
Bi	209		ug/L			2742152	2696835	0
Th	232	0.254	ug/L	0.003	1	5672	17623	0
U	238	0.161	ug/L	0.003	1	50	8216	0

12 11 28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 22:14:00

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1856991	2
[Be	9	51.954	ug/L	0.830	1	22	252715	0
C	13		ug/L			143235	157097	1
Cl	37		ug/L			4954439	5365519	1
> Sc	45		ug/L			1218098	1244393	1
V	51	47.618	ug/L	1.116	2	9170	1174478	1
V-1	51	47.981	ug/L	1.291	2	105	1161530	1
Cr	52	48.087	ug/L	0.574	1	27160	1023683	1
Cr	53	49.350	ug/L	0.964	1	170	111535	0
Mn	55	47.382	ug/L	0.332	0	674	1333832	0
Co	59	46.566	ug/L	1.018	2	88	947047	2
> Ge	72		ug/L			652831	607402	1
Ni	60	51.424	ug/L	0.326	0	35	200058	1
Ni	62	50.356	ug/L	0.660	1	471	27874	2
Cu	63	50.594	ug/L	0.605	1	514	438028	0
Cu	65	51.475	ug/L	0.367	0	55	201298	0
Zn	66	52.203	ug/L	1.600	3	255	125413	1
Zn	67	52.727	ug/L	0.629	1	38	21076	2
Zn	68	51.251	ug/L	1.259	2	241	88985	2
As	75	51.064	ug/L	0.503	0	310	106496	0
As-1	75	50.452	ug/L	0.793	1	9967	115308	0
Se	82	54.523	ug/L	0.569	1	4	12410	2
Se	78	52.270	ug/L	0.779	1	10138	40813	0
Mo	98	53.985	ug/L	1.812	3	31	253676	1
Y	89		ug/L			399449	397161	2
Kr	83		ug/L			635	647	2
> In	115		ug/L			965468	918593	1
Ag	107	54.767	ug/L	0.634	1	54	597824	0
Cd	111	52.163	ug/L	0.503	0	102	232598	0
Cd	114	51.825	ug/L	0.920	1	36	584593	1
Sb	121	51.573	ug/L	0.715	1	768	681670	0
Sb	123	51.856	ug/L	0.501	0	575	518872	0
Ba	135	50.159	ug/L	0.822	1	23	198140	1
Ba	137	49.818	ug/L	0.800	1	42	341102	0
> Tb	159		ug/L			1098939	1051944	1
Tl	205	46.740	ug/L	0.105	0	811	1700039	1
Pb	208	48.289	ug/L	0.428	0	507	2225980	0
Bi	209		ug/L			2742152	2599500	0
Th	232	53.289	ug/L	1.045	1	5672	2410871	0
U	238	53.986	ug/L	0.578	1	50	2631765	0

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11/27

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, November 27, 2012 22:20:53

Number of Replicates: 3

Method File: C:\NexIONData\Method\200.8nomin.mth

Tuning File: C:\NexIONData\MassCal\Default.tun

Optimization File: C:\NexIONData\Conditions\Default.dac

Calibration File: C:\NexIONData\System\112712a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			1766731	1789526	1
[Be	9	-0.002	ug/L	0.002	90	22	14	52
C	13		ug/L			143235	159989	0
Cl	37		ug/L			4954439	5037841	3
> Sc	45		ug/L			1218098	1208368	0
V	51	-0.023	ug/L	0.004	15	9170	8552	0
V-1	51	-0.002	ug/L	0.000	28	105	65	17
Cr	52	-0.077	ug/L	0.020	25	27160	25392	0
Cr	53	-0.006	ug/L	0.007	120	170	155	9
Mn	55	-0.004	ug/L	0.001	35	674	571	6
Co	59	-0.000	ug/L	0.000	93	88	80	8
> Ge	72		ug/L			652831	600506	0
Ni	60	0.004	ug/L	0.002	55	35	48	18
Ni	62	0.554	ug/L	0.025	4	471	134	10
Cu	63	-0.037	ug/L	0.001	3	514	153	7
Cu	65	-0.002	ug/L	0.001	83	55	44	12
Zn	66	-0.035	ug/L	0.008	21	255	150	11
Zn	67	-0.038	ug/L	0.015	38	38	20	28
Zn	68	-0.023	ug/L	0.012	50	241	182	10
As	75	0.017	ug/L	0.011	64	310	321	7
As-1	75	0.342	ug/L	0.103	30	9967	9877	1
Se	82	-0.020	ug/L	0.025	125	4	0	2186
Se	78	1.174	ug/L	0.353	30	10138	10021	1
Mo	98	0.005	ug/L	0.003	58	31	51	25
Y	89		ug/L			399449	384360	2
Kr	83		ug/L			635	630	3
> In	115		ug/L			965468	911643	1
Ag	107	-0.002	ug/L	0.000	6	54	31	5
Cd	111	0.000	ug/L	0.002	1392	102	97	8
Cd	114	0.001	ug/L	0.001	99	36	44	21
Sb	121	0.013	ug/L	0.009	64	768	901	11
Sb	123	0.012	ug/L	0.003	26	575	662	3
Ba	135	-0.001	ug/L	0.001	133	23	17	33
Ba	137	-0.001	ug/L	0.000	30	42	33	6
> Tb	159		ug/L			1098939	1009716	0
Tl	205	-0.016	ug/L	0.001	7	811	193	20
Pb	208	-0.002	ug/L	0.000	3	507	363	1
Bi	209		ug/L			2742152	2611058	0
Th	232	0.012	ug/L	0.012	98	5672	5728	8
U	238	0.001	ug/L	0.000	6	50	90	2

Mercury Analysis Log

Analyst: DM
Instrument: CETAK

Date: 11-17-12
Page: 1 of 10

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	DM	1X		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			7.26	Eq'n CUP %R=91 ✓
ICB			-0.01	✓
CCV1			3.69	%R=92 ✓
CCB1			-0.00	✓
CRA			0.10	✓
VRB MBI			0.01	✓
" MB1BPK			1.90	%R=95 ✓
" A			1.08	
" ADUP			1.05	RPO=2.81 ✓
" ASPK			2.04	%R=96 ✓
" B				
" C				
" D				
" E				
CCV2			3.65	%R=91 ✓
CCB2			0.00	✓
VRB F				DEL C/OUT
" G				
" H				
" I				
" J				
" K				
" L				

Chemical/Reagent ID:
10% SnCl₂: MP2391
Standard ID:
Standard: 2992-7

14% NH₂OH/NaCl: MP2360
ICV/CCV: 56-18

Mercury Analysis Log

Analyst: DM
 Instrument: CETAC

Date: 11-17-12
 Page: 2 of 10

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
VR37 MBI	Smm	1X	0.00	
" MBISPK			2.04	DEL CV out ✓
" A			0.19	✓
CCV3			1.76	%R=44 LOW X
CCV4			3.63	%R=91 ✓
CCB3			0.00	✓
VS18 F				
" G				
" H				
" I				
" J				
" K				
" L				
VR37 MBI			0.01	
" MBISPK			1.74	%R=87 ✓
" A			0.16	✓
CCV5			3.59	%R=90 ✓
CCB4			0.00	✓
VR37 ADUP			0.15	
" ASPK			1.12	%R=96 ✓
" B				✓
" C				
" D				
" E				
" F				
" G				
" H				
" I				
CCV6			3.60	%R=90 ✓
CCB5			0.00	✓

Chemical/Reagent ID:
 10% SnCl₂: MP2391
 Standard ID:
 Standard: 2992-7

14% NH₂OH/NaCl: MP2310
 ICV/CCV: SL-18

Mercury Analysis Log

Analyst: DM
 Instrument: CETA

Date: 11-17-12
 Page: 3 of 10

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
VR37 J	Smm	IX		
" K				
" L				
" M				
" N				
" O				
VR56 MBI			-0.00	
" MBISPK			1.81	%R=91 ✓
" A			0.11	
" ADUP			0.10	✓
CCV7			3.64	%R=91 ✓
CCB6			0.00	✓
VR58 ASPK			1.07	%R=96 ✓
" B				
" C				
" D				
" E				
" F				
" G				
" H				
" I				
" J				
CCV8			3.61	%R=90 ✓
CCB7			-0.00	✓
VR82 A				
" B				
" C				
" D				
" E				
" F	↓	↓		

Chemical/Reagent ID:
 10% SnCl₂: MP2391
 Standard ID:
 Standard: 2092-7

14% NH₂OH/NaCl: MP2360
 ICV/CCV: SL-18

Mercury Analysis Log

Analyst: DM
Instrument: CETAK

Date: 11-17-12
Page: 4 of 10

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
VR82 G	Smm	1x		
" H				
" I				
CCV9			3.56	%R=89 ✓
CCB8			0.00	✓
VR30 MBI			-0.00	✓
" MBSPK			1.82	%R=91 ✓
" A			0.92	
" ADUP			0.93	RPO=1.08 ✓
" ASPK			1.78	%R=86 ✓
" B				
" C				
" D				
" E				
" F				
CCV10			3.71	%R=93 ✓
CCB9			-0.00	✓
VR30 G				
" H				
" I				
" J				
" K				
" L				
VR36 MBI			0.00	
" MBSPK			1.89	%R=95 ✓
" A			0.77	
" ADUP			0.74	RPO=3.97 ✓
CCV11			3.72	%R=93 ✓
CCB10			0.00	✓
VR36 ASPK			1.72	%R=95 ✓

12/4/12

Chemical/Reagent ID:
10% SnCl₂: MP2391

14% NH₂OH/NaCl: MP2360

Standard ID:
Standard: 2992-7

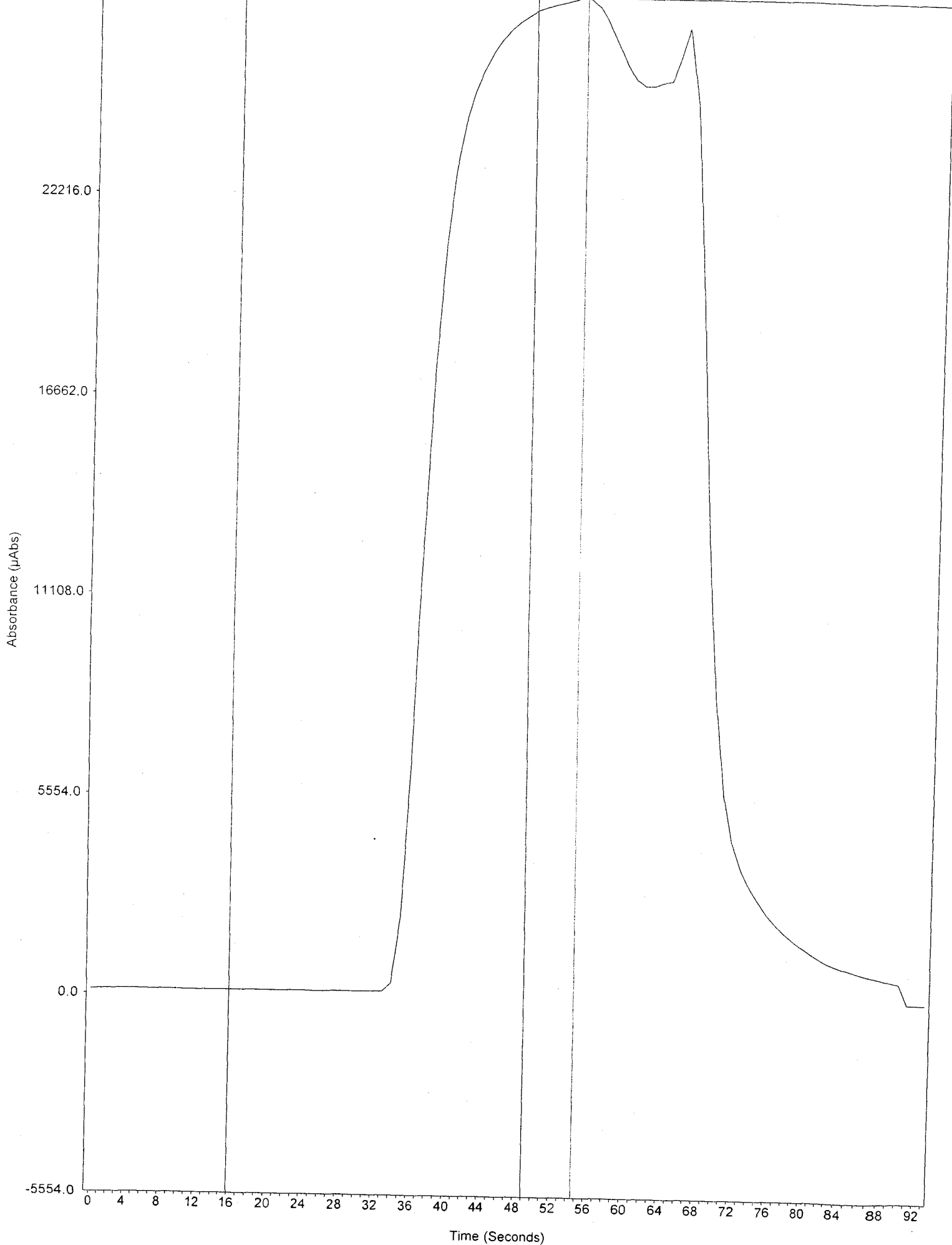
ICV/CCV: 56-18

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 11-17-12

	Analyst 11-17 om	Peer H11-19	Comment
Logbook			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification			
ICV/CCV	✓	✓	See RUN LOG
ICB/CCB	✓	✓	
Samples			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	—	—	
Method QC			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	See VR33 ASPK
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysis N/AE and CAES	✓	✓	See CAF



VR82 : 02016

Analyst
Date Started
Worksheet
Comment

Saturday, November 17, 2012, 06:44:12
ARI 10ppb CALIB

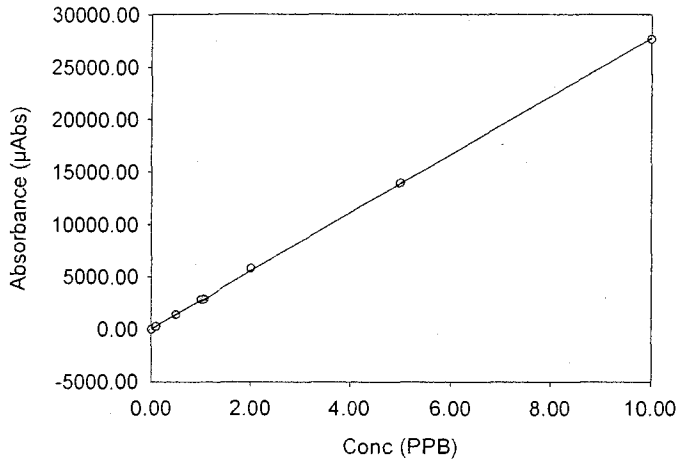
11-19-12

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Std Tube 6	17-Nov-2012, 06:44	10.00	0.46	27500.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Calibration Zero	17-Nov-2012, 06:46	0.00	4.58	-33.10	1.00	
Standard #1	17-Nov-2012, 06:47	0.10	0.53	261.00	1.00	
Standard #2	17-Nov-2012, 06:49	0.50	0.24	1400.00	1.00	
Standard #3	17-Nov-2012, 06:51	1.00	0.45	2840.00	1.00	
Standard #4	17-Nov-2012, 06:52	2.00	0.54	5790.00	1.00	
Standard #5	17-Nov-2012, 06:54	5.00	0.29	14000.00	1.00	
Standard #6	17-Nov-2012, 06:56	10.00	0.39	27700.00	1.00	

Calibration Data



Int. Slope 0.000
Slope 2778.015
Correlation 0.99994

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
ICV	17-Nov-2012, 07:05	7.26	0.75	20200.00	1.00	
ICB	17-Nov-2012, 07:06	-0.01	13.00	-18.40	1.00	

BCG in CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	17-Nov-2012, 07:08	3.69	0.28	10200.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	17-Nov-2012, 07:09	-0.00	56.00	-2.91	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
CRA	17-Nov-2012, 07:11	0.10	0.42	267.00	1.00	
VS18 MB1 SMM	17-Nov-2012, 07:13	0.01	13.00	20.30	1.00	
VS18 MB1SPK SMM	17-Nov-2012, 07:14	1.90	0.60	5270.00	1.00	
VS18 A SMM	17-Nov-2012, 07:16	1.08	0.64	3000.00	1.00	
VS18 ADUP SMM	17-Nov-2012, 07:17	1.05	0.46	2910.00	1.00	
VS18 ASPK SMM	17-Nov-2012, 07:19	2.04	0.80	5660.00	1.00	
VS18 B SMM	17-Nov-2012, 07:21	0.70	0.68	1940.00	1.00	
VS18 C SMM	17-Nov-2012, 07:22	0.59	0.86	1640.00	1.00	
VS18 D SMM	17-Nov-2012, 07:24	0.77	0.48	2150.00	1.00	
VS18 E SMM	17-Nov-2012, 07:26	0.71	0.45	1970.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	17-Nov-2012, 07:27	3.65	0.49	10100.00	1.00	

Analyst
 Date Started Saturday, November 17, 2012, 07:29:22
 Worksheet ARI 10ppb CALIB
 Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	17-Nov-2012, 07:29	0.00	11.10	10.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
VS18 F SMM	17-Nov-2012, 07:31	0.31	1.08	873.00	1.00	
VS18 G SMM	17-Nov-2012, 07:32	0.25	0.62	691.00	1.00	
VS18 H SMM	17-Nov-2012, 07:34	1.02	1.42	2840.00	1.00	
VS18 I SMM	17-Nov-2012, 07:35	3.94	0.68	10900.00	1.00	
VS18 J SMM	17-Nov-2012, 07:37	2.53	0.19	7030.00	1.00	
VS18 K SMM	17-Nov-2012, 07:38	1.94	0.22	5380.00	1.00	
VS18 L SMM	17-Nov-2012, 07:40	0.88	0.27	2440.00	1.00	
VR37 MB1 SMM	17-Nov-2012, 07:42	0.00	17.70	12.90	1.00	
VR37 MB1SPK SMM	17-Nov-2012, 07:43	2.04	0.47	5660.00	1.00	
VR37 A SMM	17-Nov-2012, 07:45	0.19	0.58	514.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	17-Nov-2012, 07:47	1.76	0.86	4880.00	1.00	Q - Low <i>98</i>
QC Standard	17-Nov-2012, 07:58	3.63	0.54	10100.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	17-Nov-2012, 08:00	0.00	11.60	11.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
VS18 F SMM	17-Nov-2012, 08:02	0.30	0.58	846.00	1.00	
VS18 G SMM	17-Nov-2012, 08:03	0.25	0.72	683.00	1.00	
VS18 H SMM	17-Nov-2012, 08:05	1.00	0.78	2780.00	1.00	
VS18 I SMM	17-Nov-2012, 08:06	3.88	0.67	10800.00	1.00	
VS18 J SMM	17-Nov-2012, 08:08	2.42	0.57	6730.00	1.00	
VS18 K SMM	17-Nov-2012, 08:09	1.81	0.67	5030.00	1.00	
VS18 L SMM	17-Nov-2012, 08:11	0.79	0.94	2190.00	1.00	
VR37 MB1 SMM	17-Nov-2012, 08:13	0.01	4.00	19.20	1.00	
VR37 MB1SPK SMM	17-Nov-2012, 08:14	1.74	0.56	4840.00	1.00	
VR37 A SMM	17-Nov-2012, 08:16	0.16	1.44	442.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	17-Nov-2012, 08:18	3.59	0.50	9980.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	17-Nov-2012, 08:19	0.00	13.00	9.15	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
VR37 ADUP SMM	17-Nov-2012, 08:21	0.15	0.54	416.00	1.00	
VR37 ASPK SMM	17-Nov-2012, 08:23	1.12	0.62	3120.00	1.00	
VR37 B SMM	17-Nov-2012, 08:24	0.09	0.36	242.00	1.00	
VR37 C SMM	17-Nov-2012, 08:26	0.28	1.03	768.00	1.00	
VR37 D SMM	17-Nov-2012, 08:27	1.41	0.61	3910.00	1.00	
VR37 E SMM	17-Nov-2012, 08:29	2.23	0.82	6190.00	1.00	
VR37 F SMM	17-Nov-2012, 08:31	0.79	0.67	2210.00	1.00	
VR37 G SMM	17-Nov-2012, 08:32	2.39	0.51	6630.00	1.00	
VR37 H SMM	17-Nov-2012, 08:34	3.87	0.37	10800.00	1.00	
VR37 I SMM	17-Nov-2012, 08:35	0.48	0.20	1340.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	17-Nov-2012, 08:37	3.60	0.66	9990.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	17-Nov-2012, 08:39	0.00	124.00	1.77	1.00	

Analyst
Date Started
Worksheet
Comment

Saturday, November 17, 2012, 08:40:49
ARI 10ppb CALIB

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
VR37 J SMM	17-Nov-2012, 08:40	1.27	0.51	3520.00	1.00	
VR37 K SMM	17-Nov-2012, 08:42	1.51	2.55	4190.00	1.00	
VR37 L SMM	17-Nov-2012, 08:44	1.16	0.58	3220.00	1.00	
VR37 M SMM	17-Nov-2012, 08:45	1.05	0.38	2900.00	1.00	
VR37 N SMM	17-Nov-2012, 08:47	1.19	0.74	3310.00	1.00	
VR37 O SMM	17-Nov-2012, 08:48	0.83	0.81	2300.00	1.00	
VR58 MB1 SMM	17-Nov-2012, 08:50	-0.00	33.50	-6.40	1.00	
VR58 MB1SPK SMM	17-Nov-2012, 08:52	1.81	0.54	5040.00	1.00	
VR58 A SMM	17-Nov-2012, 08:53	0.11	0.89	295.00	1.00	
VR58 ADUP SMM	17-Nov-2012, 08:55	0.10	0.57	281.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	17-Nov-2012, 08:56	3.64	0.48	10100.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	17-Nov-2012, 08:58	0.00	9.27	8.18	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
VR58 ASPK SMM	17-Nov-2012, 09:00	1.07	0.63	2970.00	1.00	
VR58 B SMM	17-Nov-2012, 09:01	0.10	0.59	283.00	1.00	
VR58 C SMM	17-Nov-2012, 09:03	0.11	0.53	309.00	1.00	
VR58 D SMM	17-Nov-2012, 09:05	0.10	0.66	274.00	1.00	
VR58 E SMM	17-Nov-2012, 09:06	0.11	0.48	304.00	1.00	
VR58 F SMM	17-Nov-2012, 09:08	0.41	0.62	1150.00	1.00	
VR58 G SMM	17-Nov-2012, 09:10	0.06	0.39	175.00	1.00	
VR58 H SMM	17-Nov-2012, 09:11	0.06	0.63	161.00	1.00	
VR58 I SMM	17-Nov-2012, 09:13	0.10	1.03	271.00	1.00	
VR58 J SMM	17-Nov-2012, 09:14	0.05	1.41	126.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	17-Nov-2012, 09:16	3.61	0.66	10000.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	17-Nov-2012, 09:18	-0.00	300.00	-1.14	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
VR82 A SMM	17-Nov-2012, 09:19	0.22	0.73	605.00	1.00	
VR82 B SMM	17-Nov-2012, 09:21	0.10	2.50	265.00	1.00	
VR82 C SMM	17-Nov-2012, 09:23	0.08	1.51	214.00	1.00	
VR82 D SMM	17-Nov-2012, 09:24	0.11	1.66	312.00	1.00	
VR82 E SMM	17-Nov-2012, 09:26	0.15	0.65	428.00	1.00	
VR82 F SMM	17-Nov-2012, 09:28	0.16	0.78	453.00	1.00	
VR82 G SMM	17-Nov-2012, 09:29	0.13	0.84	355.00	1.00	
VR82 H SMM	17-Nov-2012, 09:31	0.12	0.60	343.00	1.00	
VR82 I SMM	17-Nov-2012, 09:32	0.12	0.86	328.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	17-Nov-2012, 09:34	3.56	0.61	9900.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	17-Nov-2012, 09:36	0.00	42.80	6.11	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
VR30 MB1 SMM	17-Nov-2012, 09:38	-0.00	64.10	-2.94	1.00	
VR30 MB1SPK SMM	17-Nov-2012, 09:39	1.82	0.61	5060.00	1.00	
VR30 A SMM	17-Nov-2012, 09:41	0.92	0.74	2550.00	1.00	
VR30 ADUP SMM	17-Nov-2012, 09:43	0.93	0.80	2590.00	1.00	
VR30 ASPK SMM	17-Nov-2012, 09:44	1.78	0.74	4940.00	1.00	
VR30 B SMM	17-Nov-2012, 09:46	0.58	0.75	1620.00	1.00	
VR30 C SMM	17-Nov-2012, 09:47	0.68	0.60	1890.00	1.00	
VR30 D SMM	17-Nov-2012, 09:49	0.80	0.75	2230.00	1.00	

VRB2 : 02019

Analyst
Date Created: Thursday, July 13, 2000
Worksheet ARI 10ppb CALIB
Comment

Sip Duration (Sec.): 30
Rinse Duration (Sec.): 60
Read Delay: 49
Integration Time/Replicate: 1.40
of Replicates: 4
of Repeats: 1
Baseline Correction Enabled: True
Baseline Point 1 Start Time: 10
Baseline Point 1 End Time: 16
2-Point Baseline Corr. Enabled: False
Baseline Point 2 Start Time:
Baseline Point 2 End Time:

Gas Flow (ml/min): 180

Calibration Algorithm: Linear, Zero Intercept
Recalibration Frequency: 0
Reslope Frequency: 0
Reslope Standard: 5
Calibration Standard #1 Conc.: 0.10 PPB
Calibration Standard #2 Conc.: 0.50 PPB
Calibration Standard #3 Conc.: 1.00 PPB
Calibration Standard #4 Conc.: 2.00 PPB
Calibration Standard #5 Conc.: 5.00 PPB
Calibration Standard #6 Conc.: 10.00 PPB

QC Enabled: True
QC-RSD Enabled: True
Limit Condition & Error Action: If %RSD > 5.0%, if μ Abs. > 1500, Flag and Continue

QC-Std Enabled: True
Limit Condition & Error Action: If outside 80% .. 120%, Stop

QC-Blank Enabled: True
Limit Condition & Error Action: If outside -100 .. 100, Stop



Mercury Standard Prep Log

Prep Code: SMM

Instrument: CETAC

Analyst: DM

Date: 11-15-12

Bath Temp: 95°C

Start Time: 1213

End Time: 1243

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	-	0.00	50.0	0.0	3
STD1	2992-7	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA	↓	0.01		0.1	1
ICB/CCB	-	0.00		0.0	3
ICV/LCS	56-18	0.08	↓	8.0	2
CCV	↓	0.04	50.0	4.0	3

Chemical/Reagent ID:

HNO₃: JT833

H₂SO₄: JT671

HCl: -

5% K₂S₂O₈: MP2375

5% KMnO₄: MP2376

Prep Code: TLM

Digested 20.0ml

Instrument: CETAC

Analyst: DM

Date: 11-15-12

Bath Temp: 95°C

Start Time: 1247

End Time: 1447

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	-	0.00	100.0	0.0	1
STD1	2992-8	0.02		0.02	1
STD2		0.05		0.05	1
STD3		0.10		0.1	1
STD4		0.20		0.2	1
STD5		0.50 0.4		0.4	1
STD6		1.00		1.00	1
CRA	↓	0.02		0.02	1
ICB/CCB	-	0.00		0.0	1
ICV/LCS	2992-9	1.0	↓	0.5	1
CCV	↓	1.0	100.0	0.5	1

Chemical/Reagent ID:

HNO₃: JT833

H₂SO₄: JT671

HCl: -

5% K₂S₂O₈: MP2375

5% KMnO₄: MP2376



Mercury Digestion Log

Prep Code: SMM
Analyst: NB
Bath Temp: 91°C

Matrix: SOIL
Date: 11-16-12
Start Time: 1755
End Time: 1825

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CLP	Comments
VR58 A	2	-	0.284	50.0	11-24	YES	}
" ADUP	2	-	0.282		1		
" ASPK	2	-	0.288		1		
" B	2	-	0.271		1		
" C	2	-	0.217		1		
" D	2	-	0.221		1		
" E	2	-	0.231		1		
" F	2	-	0.206		1		
" G	2	-	0.260		1		
" H	2	-	0.238		1		
" I	2	-	0.247		1		
" J	2	-	0.219		1		
" MBI	-	-	-		1		
" MBISPK	-	-	-		1		
VR82 A	2	-	0.262		11-27		
" B	2	-	0.215		1		
" C	2	-	0.271		1		
" D	2	-	0.225		1		
" E	2	-	0.268		1		
" F	2	-	0.218		1		
" G	2	-	0.236		1		
" H	2	-	0.219		1		
" I	2	-	0.217	50.0	1		
			NB	11-16-12			

Chemical/Reagent ID:

HNO₃: I7833 H₂SO₄: I7677 HCl: -
5% K₂S₂O₈: MP2375 5% KMnO₄: MP2376 Digest Tube Lot: 1205258



Mercury Digestion Log

Prep Code: SMM

Matrix: SOIL

Analyst: NB

Date: 11-16-12

Bath Temp: 91°C

Start Time: 1755

End Time: 1825

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CLP	Comments	
VR58 A	2	-	0.284	50.0	11-24 1	YES	}	
" ADUP	2	-	0.282		1			
" ASPK	2	-	0.288		1			
" B	2	-	0.271		1			
" C	2	-	0.217		1			
" D	2	-	0.221		1			
" E	2	-	0.231		1			
" F	2	-	0.206		1			
" G	2	-	0.260		1			
" H	2	-	0.238		1			
" I	2	-	0.247		1			-Batch
" J	2	-	0.219		1			
" MBI	-	-	-		1			
" MBISPK	-	-	-		1			
VR82 A	2	-	0.262		11-27 1			
" B	2	-	0.215		1			
" C	2	-	0.271		1			
" D	2	-	0.229		1			
" E	2	-	0.268		1			
" F	2	-	0.218		1			
" G	2	-	0.236		1			
" H	2	-	0.219		1			
" I	2	-	0.217	50.0	1			
			NB	11-16-12				

Chemical/Reagent ID:

HNO₃: I7833

H₂SO₄: I7677

HCl: -

5% K₂S₂O₈: MP2375

5% KMnO₄: MP2376

Digest Tube Lot: 1205258

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: VR82

W
11-22-11

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET
 SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))
 DATE: 11/19/12 (A)
 ANALYST: UW / CDE 12:30
 Drying Ovens: 12
 Analytical Balance: 1123230597
 Muffle Furnace: 2790918520

Instrumentation
 Batch drying time
 record times as mm/dd/yy hr:min
 11/19/2012 12:30 UW
 11/20/2012 10:06 CDE
 elapsed hrs = 21.6

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)
 TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "<(1/dry wt)*1,000,000"

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry wt (g)	TS (%)	TVS (mg/kg)	TVS (%)
				CV-02	CV-02				
Blank				1	2	0.00	OK	0.00	OK
VR58 A1		9.1388	1.0794	1.0815	5.6004	4.52	56.1%	5.3060	OK
VR58 A1 dup		9.0465	1.0942	5.5582		4.46	56.1%	5.2766	OK

SAMPLE ID	TS (%)	TVS (mg/kg)	TVS (%)
VR58 A1 ttp	0.07%	2.96%	2.96%

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry wt (g)	TS (%)	TVS (mg/kg)	TVS (%)
				CV-02	CV-02				
VR58 B1		11.7343	1.1131	2.9095		1.80	16.9%	2.4786	OK
VR58 C1		10.9179	1.0719	3.7671		2.70	27.4%	3.3988	OK
VR58 D1		9.6124	1.0969	3.0724		1.98	23.2%	2.7757	OK
VR58 E1		9.4732	1.0903	2.9946		1.90	22.7%	2.7225	OK
VR58 F1		10.4100	1.0863	5.8391		4.75	51.0%	5.4841	OK
VR58 G1		8.7397	1.0976	7.3964		6.30	82.4%	7.3222	OK
VR58 H1		9.1007	1.0895	7.3137		6.22	77.7%	7.2529	OK
VR58 I 1		10.6463	1.1081	5.5768		4.47	46.9%	5.2868	OK
VR58 J 1		10.6470	1.1141	8.0659		6.95	72.9%	7.9891	OK
VR82 A1		10.6234	1.1037	3.5469		2.44	25.7%	3.2237	OK
VR82 B1		9.9101	1.1135	3.3647		2.25	25.6%	3.0308	OK
VR82 C1		10.8727	1.1180	8.9973		7.88	80.8%	8.8685	OK
VR82 D1		10.7028	1.0820	4.4447		3.36	35.0%	4.0766	OK
VR82 E1		10.3916	1.1113	3.8845		2.77	29.9%	3.5053	OK
VR82 F1		10.8701	1.0817	4.3789		3.30	33.7%	3.9409	OK
VR82 G1		9.9598	1.0840	4.1275		3.04	34.3%	3.7050	OK

SAMPLE ID	TS (%)	TVS (mg/kg)	TVS (%)
VR58 B1	16.9%	240,982	24.10%
VR58 C1	27.4%	136,650	13.67%
VR58 D1	23.2%	150,190	15.02%
VR58 E1	22.7%	145,565	14.56%
VR58 F1	51.0%	76,060	7.61%
VR58 G1	82.4%	12,383	1.24%
VR58 H1	77.7%	9,768	0.98%
VR58 I 1	46.9%	66,977	6.70%
VR58 J 1	72.9%	11,896	1.19%
VR82 A1	25.7%	135,110	13.51%
VR82 B1	25.6%	151,519	15.15%
VR82 C1	80.8%	17,210	1.72%
VR82 D1	35.0%	111,309	11.13%
VR82 E1	29.9%	138,957	13.89%
VR82 F1	33.7%	133,992	13.40%
VR82 G1	34.3%	141,120	14.11%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

ZnO AC

(B)

Analyst: <u>uw/col</u>		Date: <u>11-19-12</u>	Oven ID: <u>12</u>	Balance ID: <u>1123230597</u>
Time in Oven: <u>16:40</u>		Time Out of Oven:	<u>11-20-12</u>	Elapsed Time (> 12 Hrs):
Sample ID	Dish #	Sample	Dry Weight	Ash Weight 550°C
BLANK	1	Tare	grams	3
VT06A2	2	9.2259	1.0966	
ALDWP	3	10.2069	7.3748	
ALRHP	4	10.2287	8.2390	
B2	5	12.1902	8.2723	
CD2	6	11.8990	11.7270	
JK2	7	11.2863	9.6703	
VK22	8	9.1756	9.3969	
V22	X	10.6864	7.6748	
			8.8371	

TS (%) calculated as:
Final Dry Weight (g) = (Dry Weight - Tare Weight)
TS = (Final Dry Weight) / (Grams Sample - Tare Weight)

TVS (mg/kg dry weight) calculated as:
Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight)
TVS (mg/kg) = ((Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000
If Ash Weight > Dry Weight then "Check for Error"
If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000

VR82 : 02028

W
11-23-12

TOC Solids Prep Log						DATE:	11/12/12 (A)
acid purging to remove IC and drying at 70°C for TOC analysis General notes regarding prep method and samples (identify the acid used)						ANALYST:	CDE / KE 13:54
						Balance ID: Mettler Toledo (XS205 DU) SN 123230597	
						HCL ID:	
<i>make no entry to shaded cells, they are calculated</i>							
Sample ID ARI #	Client	IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
			Tare Wt.	Wet wt.	70°C dry wt		
Blank			13.1053		13.1056	0.3 mg	
VR58 A1		-	13.1055	17.7745	15.7762	57.20%	
VR58 A1 dup		-	13.0921	17.7225	15.6917	56.14%	RPD = 1.87%
VR58 A1 trip		-	13.1692	17.4779	15.6637	57.89%	RSD = 1.55%
VR58 B1		-	13.0985	17.9585	13.9847	18.23%	
VR58 C1		-	13.1294	19.9993	15.1908	30.01%	
VR58 D1		-	13.1172	20.0096	14.7753	24.06%	
VR58 E1		-	13.1580	19.6087	14.7050	23.98%	
VR58 F1		-	13.0836	18.8660	15.7204	45.60%	
VR58 G1		-	13.1493	19.8471	18.2017	75.43%	
VR58 H1		-	13.1045	18.3920	17.4433	82.06%	
VR58 I 1		-	13.1122	19.4155	16.1709	48.53%	
VR58 J 1		-	13.1158	19.7989	18.2565	76.92%	
VR82 A1		-	13.1369	17.8646	14.4115	26.96%	
VR82 B1		-	13.2036	19.1787	14.7417	25.74%	
VR82 C1		-	13.1947	18.7963	17.9219	84.39%	
VR82 D1		-	13.1390	20.0811	15.5952	35.38%	
VR82 E1		-	13.0957	19.0146	14.9428	31.21%	
VR82 F1		-	13.1713	18.7909	15.2289	36.61%	
VR82 G1		-	13.1194	19.3203	15.3322	35.69%	
VR82 H1		-	13.1070	20.7767	16.4269	43.29%	
VR82 I 1		-	13.1535	20.3792	15.8073	36.73%	



TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

Analyst ckr (W) (A)

Date 11-12-12

1354

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			13.1053	Ø	13.1056		
VR99A							
A'dp							
A'tp							
B'							
VR58A		-	13.1055	17.7745	15.7762		Silt + Sed
A'dp		-	13.0921	17.7225	15.6917		
A'tp		-	13.1692	17.4779	15.6637		
B'		-	13.0985	17.9585	13.9847		wet sed.
C'		-	13.1294	19.9993	15.1908		
D'		-	13.1172	20.0096	14.7753		
E'		-	13.1580	19.6087	14.7050		
F'		-	13.0836	18.8660	15.7204		+ Rocks
G'		-	13.1493	19.8471	18.2017		wet sand
H'		-	13.1045	18.3920	17.4433		
I'		-	13.1122	19.4155	16.1709		clay like sed. + sticks
J'		-	13.1158	19.7989	19.2565		Sed.
VR82A		-	13.1369	17.8646	14.4115		Sed. wet sed
B'		-	13.2036	19.1787	14.7417		
C'		-	13.1947	18.7963	17.9219		sand slats
D'		-	13.1390	20.0811	15.5952		wet sed.
E'		-	13.0957	19.0146	14.9428		
F'		-	13.1713	18.7909	15.2289		
G'		-	13.1194	19.3203	15.3322		
H'		-	13.1070	20.7767	16.4269		
I'		-	13.1535	20.3792	15.8073		
			<u>11-12-12</u>				

11-23-11

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) DATE: 11/16/2012 (C) ANALYST: CDE / RR 20:04

Instrumentation Drying Ovens: 12 Muffle Furnace: N/A Analytical Balance: 1123230597

Batch drying time
 record times as mm/dd/yy hh:mm
 11/16/2012 20:04 date/time in oven CDE
 11/17/2012 13:17 date/time out RR
 elapsed hrs = 17.2

TS (%) calcu.
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)
 TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
										1	2		
Blank			11/16/12 18:17	11/16/12 17:44	11/17/12 13:33	10.0000	10.0000	Cal OK	Cal OK				
VS82 A1	6.5647		10.0000	1.0971	1.0969	0.00							
VS82 B1	6.5572		10.0000	1.1128	5.9522	4.84							88.8%
VS82 C1	4.5522		10.0000	1.0999	5.5910	4.49							82.5%
VS82 C1 dup	4.7788		10.0000	1.0880	3.8371	2.75							79.4%
VS82 C1 trip	5.5761		10.0000	1.0967	3.9424	2.85							77.3%
				1.0774	4.3599	3.28							73.0%

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
										1	2		
VS82 D1	5.3954		10.0000	1.0968	4.6748	3.58							83.2%
VS82 E1	6.9746		10.0000	1.1007	5.5187	4.42							75.2%
VS82 F1	5.1867		10.0000	1.1258	4.2563	3.13							77.1%
VS82 G1	6.3601		10.0000	1.1096	5.4089	4.30							81.9%
VS82 H1	6.9659		10.0000	1.0850	5.3383	4.25							73.6%
VS82 I1	5.3896		10.0000	1.0662	4.3323	3.27							75.5%
VS82 J1	5.8035		10.0000	1.0869	4.3484	3.26							69.1%
VS82 K1	5.5642		10.0000	1.0845	4.3802	3.30							73.6%
VS82 L1	6.8398		10.0000	1.0957	5.2519	4.16							72.4%
VS82 M1	6.3839		10.0000	1.1137	4.8924	3.78							71.7%

RSD = 6.10%
 RSD = 3.58
 RSD = 4.42
 RSD = 3.13
 RSD = 4.30
 RSD = 4.25
 RSD = 3.27
 RSD = 3.26
 RSD = 3.30
 RSD = 4.16
 RSD = 3.78

NA

TOC, Solids Data Analysis

Instrument: Apollo 1

Mode: NPOC

Inlet: Boat

Spike Std = 2,500 ppm C

DATE: 11/27/2012

ANALYST: KE 7:28

Balance ID:

Calibration Data

Cal Curve ID: 11/13/2012

Conc: 5,000 ppm

Calibration Curve Standard: 00130-01

Curve Date: 11/13/12

CalFact: 1.339E+05 intercept: 163305

r2: 0.99851

Curve Range (ppm) 200 to 2,500

Curve Range (µgC): 8 to 100 40 µL injections of designated standard

Verification Standard

Source: ERA# 0409-12-01

Conc: 5,000 ppm

dilution: 10 mL to 50

1,000 ppm

Standard Reference Material

Source: NIST 8704

Conc: 33,510 ppm

Source: NIST 1941B

Conc: 29,900 ppm

Silica Blanks

Replicate determinations					Mean	RSD	condition
42.0	50.1	75.0	43.2		45.1	9.6%	OK

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV				1.00		40.0	947	947	94.70%
Blank				1.00		40.0	-25.22	-25	Blank OK
NIST 1941B				1.00		1.7	28120	28,120	94.05%
Silica Blanks 1				1.00		41.9	42.00	42	Low Scale
Silica Blanks 2				1.00		40.1	50.07	50	Low Scale
Silica Blanks 3				1.00		40.0	74.99	75	Low Scale
Silica Blanks 4				1.00		37.9	43.22	43	Low Scale
VR36 A1	24.3	236.6	89.73%	9.74		2.3	9938	96,369	Range OK!
VR36 B1	20.4	200.7	89.84%	9.84		2.8	7685	75,208	Range OK!
VR36 C1	21.8	206.0	89.42%	9.45		3.6	4352	40,743	Range OK!
VR36 D1				1.00		0.8	73869	73,869	Range OK!
VR36 E1				1.00		1.1	9055	9,055	Range OK!
CCV				1.00		40.0	904	904	90.40%
Blank				1.00		40.0	30.56	31	Blank OK
VR36 F1				1.00		2.2	6092	6,092	Range OK!
VR36 G1				1.00		3.2	2748	2,748	Range OK!
VR36 H1	15.5	153.6	89.91%	9.91		2.0	5887	57,936	Range OK!

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
VR36 1 trip	11.2	108.5	89.68%	9.69		4.5	5533	53,209	Range OK!
VR36 1	11.2	108.5	89.68%	9.69		1.7	3908	37,467	Low Scale
VR36 1 dup	11.4	109.5	89.59%	9.61		1.7	4392	41,798	RPD=10.9%
VR36 1 trp	11.7	113.4	89.68%	9.69		1.6	5169	49,708	RSD=14.4%
VR36 1 ms	11.2	108.5	89.68%	9.69	10	1.7	21062	203,646	Range OK!
Spike =		0.025	mg C to	0.2	mg samp=	142,463	ppm	117%	
VR36 J 1	12.2	119.1	89.76%	9.76		2.1	10676	103,827	Range OK!
VR36 K1	11.0	104.9	89.51%	9.54		2.3	18038	171,632	Range OK!
CCV				1.00		40.0	950	950	95.00%
Blank				1.00		40.0	-24.85	-25	Blank OK
VR36 L1	11.2	107.2	89.55%	9.57		2.9	6554	62,345	Range OK!
VR37 A1				1.00		1.0	23264	23,264	Range OK!
VR37 B1				1.00		2.8	7675	7,675	Range OK!
VR37 C1				1.00		0.9	17947	17,947	Range OK!
VR37 D1	27.8	270.6	89.73%	9.73		2.0	7575	73,340	Range OK!
VR37 E1	15.6	150.5	89.63%	9.65		2.0	18254	175,714	Range OK!
VR37 F1				1.00		0.9	17585	17,585	Range OK!
VR37 G1	15.6	153.8	89.86%	9.86		1.8	8131	79,764	Range OK!
VR37 H1				1.00		0.9	36305	36,305	Range OK!
VR37 I 1				1.00		0.8	12374	12,374	Range OK!
CCV				1.00		40.0	974	974	97.40%
Blank				1.00		40.0	-18.01	-18	Blank OK
VR37 J 1	19.4	191.4	89.86%	9.87		1.7	6548	64,203	Range OK!
VR37 K1	13.5	133.1	89.86%	9.86		2.3	19970	196,490	Range OK!
VR37 L1	14.3	141.8	89.92%	9.92		2.3	9114	89,973	Range OK!
VR37 M1	19.7	186.8	89.45%	9.48		2.3	11212	105,932	Range OK!
VR37 N1	15.8	151.6	89.58%	9.59		1.9	8726	83,338	Range OK!
VR37 O1	24.1	235.3	89.76%	9.76		3.0	4123	39,860	Range OK!
VR82 A1				1.00		0.9	67885	67,885	Range OK!
VR82 B1				1.00		1.1	65630	65,630	Range OK!
VR82 C1				1.00		1.5	26143	26,143	Range OK!
VR82 D.1				1.00		0.8	53741	53,741	Range OK!
CCV				1.00		40.0	1049	1,049	104.90%
Blank				1.00		40.0	-20.87	-21	Blank OK
VR82 E1				1.00		0.9	46834	46,834	Range OK!
VR82 F1				1.00		1.1	45568	45,568	Range OK!
VR82 G1				1.00		0.9	67950	67,950	Range OK!
VR82 H1				1.00		0.8	31984	31,984	Range OK!
VR82 I 1				1.00		0.9	50718	50,718	Range OK!
VS18 A1	19.7	193.6	89.82%	9.83		2.4	6724	65,681	Range OK!
VS18 A1 dup	19.1	190.7	89.98%	9.98		2.7	6625	65,741	RPD=0.1%
VS18 A1 trp	19.3	190.8	89.88%	9.89		2.3	7262	71,391	RSD=4.9%
VS18 A1 ms	19.7	193.6	89.82%	9.83	10	2.6	16037	157,204	Range OK!
Spike =		0.025	mg C to	0.3	mg samp=	94,494	ppm	97%	

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (μ L Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
VS18 B1	14.3	129.1	88.92%	9.03		2.3	6428	57,670	Range OK!
CCV				1.00		40.0	1081	1,081	108.10%
Blank				1.00		40.0	-21.37	-21	Blank OK
VS18 C1	18.7	180.9	89.66%	9.67		2.8	6094	58,561	Range OK!
VS18 D1	12.6	123.1	89.76%	9.77		2.3	7343	71,344	Range OK!
VS18 E1	15.1	149.6	89.91%	9.91		2.5	7140	70,336	Range OK!
VS18 F1	18.2	180.8	89.93%	9.93		2.3	5104	50,301	Range OK!
VS19 G1	16.9	165.9	89.81%	9.82		2.5	4722	45,956	Range OK!
VS18 H1				1.00		0.9	34287	34,287	Range OK!
VS18 I 1				1.00		0.8	49897	49,897	Range OK!
VS18 J 1				1.00		1.0	11587	11,587	Range OK!
VS18 K1	20.2	195.7	89.68%	9.69		2.7	4066	39,000	Range OK!
VS18 L1	11.8	108.8	89.15%	9.22		3.0	3978	36,308	Range OK!
NIST 1941B				1.00		1.5	34988	34,988	117.02%
CCV				1.00		40.0	999	999	99.90%
Blank				1.00		40.0	-13.61	-14	Blank OK



① 11-27-12 (W)

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 3

Set-Up Parameters MODE: NPOC			INLET: Boat Sampler			
Standards:	Source	Conc (ppm)	Analyst: (W)			
Calibration:	ARI - 00124-03	5000	Date: 11-27-12			
Verification:	ERA - 0409-12-01	5000 to 1000 for CVS	Time: 7:28			
SRM:	NBS-1941b or 8704	Method:	PSEP 1986-MOD	Balance ID	B146454145	
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
10U			40			
10B			40			
NBS 1941 B			1.7			
SB	1		41.9			
	2		40.1			
	3		40.0			
	4		37.9			
VR36	A'	24.3	236.6	2032.3		
	B'	20.4	200.7	2.8		
	C'	21.8	206.0	3.6		
	D'		0.8			
	E'		1.1			
CBV			40			
CCB			40			
VR36	F'		2.2			
	G'		3.2			
	H'	15.5	153.6	2.0		
	I'	12.11.2	108.5	1.5		Trip Motor 19
	J'	12.11.2	108.5	1.7		Rem
	RT'	11.4	109.5	1.7		
	BT'	11.7	119.4	1.6		
	MBT'	11.2	108.5	1.7	2500	10
	J'	12.2	119.1	2.1		
	K'	11.0	104.9	2.3		
CBV			40			
CCB			40			
VR36	L'	11.2	107.2	2.9		
VR37	A'		1.0			
	B'		2.8			
	C'		0.9			
	D'	27.8	270.6	2.0		
	E'	15.6	150.5	2.0		



① 11-27-12 (W)

TOC Solids Sample Run Log
Apollo 9000

Page 2 of 3

Set-Up Parameters MODE: NPOC				INLET: Boat Sampler		
Standards:	Source		Conc (ppm)	Analyst: (W)		
Calibration:	ARI - 00128-03		5000	Date: 11-27-12		
Verification:	ERA - 0402-12-01		5000 to 1000 for CVS	Time: 7:28		
SRM:	NBS 1941b or 8704		Method:	Balance ID		
			PSEP 1986-MOD	B146454145		
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
VR37 FI			0.9			
↓ GI	15.6	153.8	1.8			
↓ HI			0.9			
↓ IJ			0.8			
CCW			40			
CCB			40			
VR37 JI	19.4	191.4	1.7			
↓ KI	13.5	133.1	2.3			
↓ LI	14.3	141.8	2.3			
↓ MI	19.7	196.9	2.3			
↓ NI	15.8	157.6	1.9			
↓ OI	24.1	235.3	3.0			
VR82 AI			0.9			
↓ BI			1.1			
↓ CI			1.5			
↓ DI			0.8			
CCW			40			
CCB			40			
VR82 EI			0.9			
↓ FI			1.1			
↓ GI			0.9			
↓ HI			0.8			
↓ IJ			0.9			
US18 AI	19.7	193.6	2.4			
↓ oPAI	19.1	190.7	2.7			
↓ xPAI	19.3	190.8	2.3			
↓ mSAI	19.7	193.6	2.6	2500	10	
↓ BI	14.3	129.1	2.3			
CCW			40			
CCB			40			
VS18 C'	18.7	180.9	① 2.2	2.8		
↓ D'	12.6	123.1	① 2.0	2.3		



① 11-27-12 (W)

TOC Solids Sample Run Log
Apollo 9000

Page 3 of 3

Set-Up Parameters			MODE: NPOC	INLET: Boat Sampler		
Standards:	Source		Conc (ppm)		Analyst:	(W)
Calibration:	ARI - 00128-03		5000		Date:	11-27-12
Verification:	ERA - 0409-12001		5000 to 1000 for CVS		Time:	7:28
SRM:	NBS 1941b or 8704		Method:		Balance ID	
			PSEP 1986-MOD		B146454115	
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt mg	Matrix Spike Data		Comments
	Sample	+ Silica Gel		mg/L	µL added	
US18	E1	15.1	149.6	2.5		
	F1	18.2	180.8	2.3		
	G1	16.9	165.9	2.5		
	H1			0.9		
	I1			0.8		
	J1			1.0		
	K1	20.2	195.7	2.7		
	L1	11.8	108.8	3.0		
NBS 1941 B				1.5		
CCU				4.0		
CCB				4.0		
11-27-12 (W)						

11-28-12 (W)

Sample ID: ICV/CCV BOAT Mode: TOC
Method: Boat Sampler Filename: 11270727
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 07:30
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	946.6590	37.8664	5233503	8.115	9.115	146

Sample ID: ICB/CCB BOAT Mode: TOC
Method: Boat Sampler Filename: 11270735
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 07:40
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-25.2207	-1.0088	28226	7.996	8.065	120

Last Message: Low Sample Detected

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 11270748
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 07:52
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28119.7227	47.8035	6564062	7.933	8.933	210

Sample ID: Silica Blank 1 Mode: TOC
Method: Boat Sampler Filename: 11270814
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 08:17
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	42.0022	1.7599	235644	7.931	8.928	60

Sample ID: Silica Blank 2 Mode: TOC
Method: Boat Sampler Filename: 11270822
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 08:25
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	50.0711	2.0079	268846	7.918	8.916	62

Sample ID: Silica Blank 3 Mode: TOC
Method: Boat Sampler Filename: 11270831
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 08:33
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	74.9865	2.9995	401619	8.027	9.023	65

Sample ID: Silica Blank 4 Mode: TOC
Method: Boat Sampler Filename: 11270840
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 08:42
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1 43.2200 1.6380 219329 7.980 8.976 60

Sample ID: VR36 A1 Mode: TOC
 Method: Boat Sampler Filename: 11270854
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 08:58
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9938.1826	22.8578	3060597	8.077	9.074	131

Sample ID: VR36 B1 Mode: TOC
 Method: Boat Sampler Filename: 11270903
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:06
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7684.9502	21.5179	2881180	8.144	9.144	116

Sample ID: VR36 ^{G1} Mode: TOC
 Method: Boat Sampler Filename: 11270914
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:17
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4351.8306	15.6666	2097712	8.414	9.411	109

Sample ID: VR36 D1 Mode: TOC
 Method: Boat Sampler Filename: 11270919
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:23
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	73868.9297	59.0951	7912671	8.347	9.346	170

Sample ID: VR36 E1 Mode: TOC
 Method: Boat Sampler Filename: 11270925
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:28
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9054.8008	9.9603	1333653	8.435	9.433	112

Sample ID: ICV/CCV BOAT Mode: TOC
 Method: Boat Sampler Filename: 11270932
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:35
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	903.9148	36.1566	5004570	8.564	9.563	134

Sample ID: ICB/CCB BOAT Mode: TOC
 Method: Boat Sampler Filename: 11270940
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:43
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30.5576	1.2223	326968	8.397	9.391	92

Sample ID: VR36 F1 Mode: TOC
 Method: Boat Sampler Filename: 11270948
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:52
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6092.3496	13.4032	1794646	8.341	9.339	131

Sample ID: VR36 G1 Mode: TOC
 Method: Boat Sampler Filename: 11270956
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 09:59
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2748.3540	8.7947	1177590	8.267	9.265	127

Sample ID: VR36 H1 Mode: TOC
 Method: Boat Sampler Filename: 11271003
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:05
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5887.0493	11.7741	1576518	8.300	9.295	96

Sample ID: VR36 I 1 Mode: TOC
 Method: Boat Sampler Filename: 11271007
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:11
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5533.1221	8.2997	1111304	8.368	9.363	91

11-27-12 was Trip Not Original Run

Sample ID: VR36 I 1 Mode: TOC
 Method: Boat Sampler Filename: 11271014
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:17
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3907.7053	6.6431	889492	8.343	9.339	82

Sample ID: VR36 I 1 *OP* Mode: TOC
 Method: Boat Sampler Filename: 11271021
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:23
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4392.1021	7.4666	999753	8.354	9.343	90

Sample ID: VR36 I 1 *HP* Mode: TOC
 Method: Boat Sampler Filename: 11271026
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:29
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5169.2007	8.2707	1107426	8.401	9.400	92

Sample ID: VR36 I 1 MS Mode: TOC
 Method: Boat Sampler Filename: 11271034
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:37
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21062.4961	35.8062	4794354	8.622	9.622	133

Sample ID: VR36 J1 Mode: TOC
 Method: Boat Sampler Filename: 11271051
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 10:54
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10675.9062	22.4194	3001894	8.428	9.426	125

Sample ID: VR36 ^U Mode: TOC
 Method: Boat Sampler Filename: 11271058
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:01
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18038.0547	41.4875	5555062	8.519	9.517	138

Sample ID: ICB/CCV BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271120
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:24
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	950.4704	38.0188	5253917	8.516	9.515	133

Sample ID: ICB/CCB BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271126
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:31
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-24.8518	-0.9941	30202	8.271	8.197	120

Last Message: Low Sample Detected

Sample ID: VR36 L1 Mode: TOC
 Method: Boat Sampler Filename: 11271136
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:39
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6554.2153	19.0072	2545013	8.196	9.196	121

Sample ID: VR37 A1 Mode: TOC
 Method: Boat Sampler Filename: 11271141
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:44
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23264.4316	23.2644	3115041	8.136	9.134	131

=====
Sample ID: VR37 B1 Mode: TOC
Method: Boat Sampler Filename: 11271149
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 11:52
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7675.5200	21.4915	2877645	7.958	8.953	144

=====

Sample ID: VR37 C1 Mode: TOC
Method: Boat Sampler Filename: 11271157
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:00
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17946.6367	16.1520	2162703	7.868	8.863	135

=====

Sample ID: VR37 ^{D1} Mode: TOC
Method: Boat Sampler Filename: 11271205
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:07
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7574.7007	15.1494	2028462	7.881	8.878	108

=====

Sample ID: VR37 E1 Mode: TOC
Method: Boat Sampler Filename: 11271214
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:17
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18254.4180	36.5088	4888429	7.944	8.942	134

=====

Sample ID: VR37 ^{F1} Mode: TOC
Method: Boat Sampler Filename: 11271221
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:24
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17585.3711	15.8268	2119168	8.006	9.003	116

=====

Sample ID: VR37 G1 Mode: TOC
Method: Boat Sampler Filename: 11271228
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:30
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8131.3179	14.6364	1959769	8.048	9.044	105

=====

Sample ID: VR37 H1 Mode: TOC
Method: Boat Sampler Filename: 11271234
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:37
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	36305.0430	32.6745	4375028	7.937	8.936	141

=====

Sample ID: VR37 I 1 Mode: TOC
 Method: Boat Sampler Filename: 11271248
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 12:53
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12373.9385	9.8992	1325468	8.022	9.021	120

Sample ID: ICV/CCV BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271256
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:00
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	974.3135	38.9725	5381618	8.018	9.017	162

Sample ID: ICB/CCB BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271302
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:06
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-18.0115	-0.7205	66838	7.917	7.990	120

Last Message: Low Sample Detected

Sample ID: VR37 J1 Mode: TOC
 Method: Boat Sampler Filename: 11271312
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:14
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6547.6982	11.1311	1490421	7.829	8.827	102

Sample ID: VR37 K1 Mode: TOC
 Method: Boat Sampler Filename: 11271317
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:21
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19969.6934	45.9303	6149936	7.755	8.753	149

Sample ID: VR37 L1 Mode: TOC
 Method: Boat Sampler Filename: 11271324
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:27
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9113.7285	20.9616	2806695	7.737	8.736	119

Sample ID: VR37 M1 Mode: TOC
 Method: Boat Sampler Filename: 11271330
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:33
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11211.5146	25.7865	3452737	7.648	8.642	123

=====
Sample ID: VR37 N1 Mode: TOC
Method: Boat Sampler Filename: 11271337
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:41
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8726.1182	16.5796	2219965	7.559	8.557	114

=====

Sample ID: VR37 O1 Mode: TOC
Method: Boat Sampler Filename: 11271348
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:50
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4122.7285	12.3682	1656065	7.716	8.713	105

=====

Sample ID: VR82 A1 Mode: TOC
Method: Boat Sampler Filename: 11271353
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 13:57
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	67885.3984	61.0969	8180696	7.656	8.652	157

=====

Sample ID: VR82 B1 Mode: TOC
Method: Boat Sampler Filename: 11271401
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 14:05
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	65630.3828	72.1934	9666494	7.764	8.762	159

=====

Sample ID: VR82 C1 Mode: TOC
Method: Boat Sampler Filename: 11271431
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 14:35
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26142.6777	39.2140	5250645	7.691	8.687	146

=====

Sample ID: VR82 ^{D1} Mode: TOC
Method: Boat Sampler Filename: 11271439
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 14:43
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	53740.7266	42.9926	5756584	7.530	8.528	139

=====

Sample ID: ICV/CCV BOAT Mode: TOC
Method: Boat Sampler Filename: 11271448
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 14:53
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1049.3702	41.9748	5783612	7.496	8.495	154

=====

Sample ID: ICB/CCB BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271456
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 14:58
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-20.8714	-0.8349	51521	7.588	8.588	42

Sample ID: VR82 E1 Mode: TOC
 Method: Boat Sampler Filename: 11271501
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:05
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	46834.2930	42.1509	5643881	7.515	8.512	154

Sample ID: VR82 F1 Mode: TOC
 Method: Boat Sampler Filename: 11271507
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:11
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	45568.0430	50.1248	6711575	7.576	8.575	152

Sample ID: VR82 G1 Mode: TOC
 Method: Boat Sampler Filename: 11271514
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:18
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	67949.8438	61.1549	8188461	7.368	8.367	158

Sample ID: VR82 H1 Mode: TOC
 Method: Boat Sampler Filename: 11271521
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:24
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31983.8047	25.5870	3426032	7.480	8.478	121

Sample ID: VR82 ^I Mode: TOC
 Method: Boat Sampler Filename: 11271528
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:31
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	50718.0430	45.6462	6111902	7.290	8.289	145

Sample ID: VS18 A1 Mode: TOC
 Method: Boat Sampler Filename: 11271533
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:36
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6723.7822	16.1371	2160709	7.232	8.231	111

Sample ID: VS18 A1 DUP Mode: TOC
Method: Boat Sampler Filename: 11271541
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:44
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6625.1787	17.8880	2395150	7.255	8.247	116

Sample ID: VS18 A1 *TAP* Mode: TOC
Method: Boat Sampler Filename: 11271547
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:50
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7262.0435	16.7027	2236444	7.300	8.298	112

Sample ID: VS18 A1 MS Mode: TOC
Method: Boat Sampler Filename: 11271553
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 15:56
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16036.6309	41.6952	5582874	7.469	8.466	139

Sample ID: VS18 B1 Mode: TOC
Method: Boat Sampler Filename: 11271558
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:01
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6428.7129	14.7860	1979809	7.424	8.422	110

Sample ID: ICV/CCV BOAT Mode: TOC
Method: Boat Sampler Filename: 11271625
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:28
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1080.6938	43.2278	5951378	7.381	8.380	143

Sample ID: ICB/CCB BOAT Mode: TOC
Method: Boat Sampler Filename: 11271630
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:33
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-21.3679	-0.8547	48861	7.252	7.284	120

Last Message: Low Sample Detected

Sample ID: VS18 C1 Mode: TOC
Method: Boat Sampler Filename: 11271635
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:38
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6094.0137	17.0632	2284719	7.269	8.267	119

Sample ID: VS18 D1 Mode: TOC
Method: Boat Sampler Filename: 11271640
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:43
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7342.7754	16.8884	2261306	7.285	8.283	115

Sample ID: VS18 E1 Mode: TOC
Method: Boat Sampler Filename: 11271645
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:48
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7139.5649	17.8489	2389919	7.340	8.339	110

Sample ID: VS18 F1 Mode: TOC
Method: Boat Sampler Filename: 11271650
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:53
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5104.0669	11.7394	1571866	7.377	8.374	99

Sample ID: VS18 G1 Mode: TOC
Method: Boat Sampler Filename: 11271655
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 16:57
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4722.4731	11.8062	1580814	7.342	8.342	98

Sample ID: VS18 H1 Mode: TOC
Method: Boat Sampler Filename: 11271700
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:04
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34286.5820	30.8579	4131788	7.229	8.227	139

Sample ID: VS18 I1 Mode: TOC
Method: Boat Sampler Filename: 11271709
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:12
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	49896.7617	39.9174	5344828	7.226	8.224	158

Sample ID: VS18 J1 Mode: TOC
Method: Boat Sampler Filename: 11271714
Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:18
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11587.3613	11.5874	1551515	7.320	8.315	113

Sample ID: VS18 K1 Mode: TOC
 Method: Boat Sampler Filename: 11271720
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:24
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4065.6396	10.9772	1469819	7.332	8.330	103

Sample ID: VS18 L1 Mode: TOC
 Method: Boat Sampler Filename: 11271726
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:29
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3977.6409	11.9329	1597784	7.356	8.353	111

Sample ID: NBS 8704 Mode: TOC
 Method: Boat Sampler Filename: 11271731
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:36
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34988.3242	52.4825	7190561	7.455	8.454	205

Sample ID: ICV/CCV BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271737
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:41
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	999.0364	39.9615	5514030	7.369	8.369	149

Sample ID: ICB/CCB BOAT Mode: TOC
 Method: Boat Sampler Filename: 11271744
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/27 17:47
 Operator ID: TRINA Sample Type: Cal. Verification

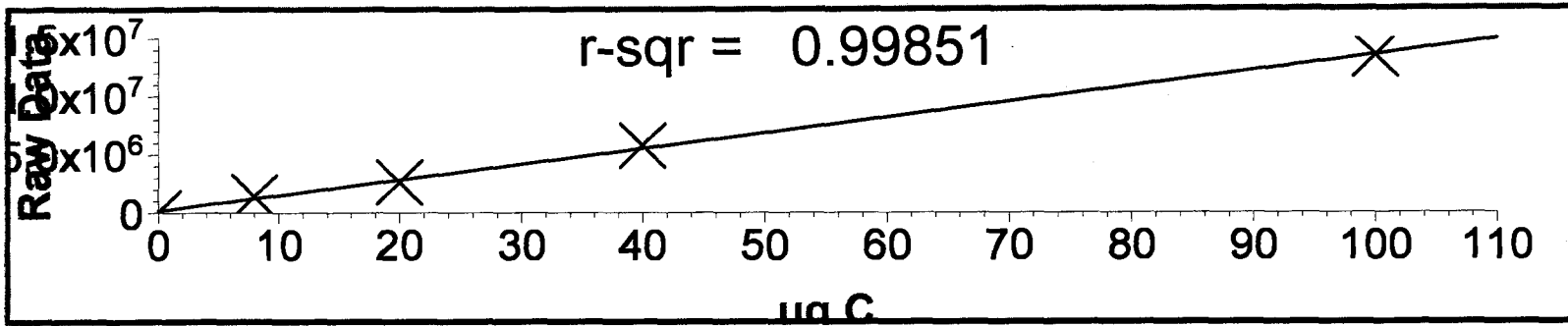
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-13.6122	-0.5445	90400	7.535	8.533	54

11-13-12 (W)

Calibration Report Print Date/Time: 2012/11/13 17:59:45

Cal. Curve ID: 11132012 BOAT CAL
Created: 2012/11/13 17:59
Calibration Factor (m): 1.339e+05
Y Intercept (b): 163305
r-squared: 0.99851

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
DI Water	34152	0.000	-0.965	Low Sample De	2012/11/13 12:29
200 ppm	1402526	8.000	9.255		2012/11/13 15:57
500 ppm	2612048	20.000	18.288		2012/11/13 16:30
1000 ppm	5782382	40.000	41.966		2012/11/13 17:08
2500 ppm	13480140	100.000	99.456		2012/11/13 17:46



```

=====
Sample ID:  DI Water          Mode:      TOC
Method:     Boat Sampler      Filename:   11131156
Cal. Curve: 11132012 BOAT CAL Timestamp:  2012/11/13 12:29
Operator ID: TRINA           Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			18402	16.796	16.349	120
2			42520	15.376	15.117	120
3			41534	14.988	14.928	120

```

-----
Last Message: Low Sample Detected
<<<Statistics>>> Mean: 34152 Std Dev: 13649 RSD: 39.96
=====
    
```

```

Sample ID:  200 ppm          Mode:      TOC
Method:     Boat Sampler      Filename:   11131238
Cal. Curve: 11132012 BOAT CAL Timestamp:  2012/11/13 13:05
Operator ID: TRINA           Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1222030	14.878	15.874	82
2			2828545	14.808	15.808	104
3			1056788	14.689	15.685	76

```

-----
<<<Statistics>>> Mean: 1702454 Std Dev: 978717 RSD: 57.49
=====
    
```

```

Sample ID:  500 ppm          Mode:      TOC
Method:     Boat Sampler      Filename:   11131440
Cal. Curve: 11132012 BOAT CAL Timestamp:  2012/11/13 15:23
Operator ID: TRINA           Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			2592282	15.291	16.289	93
2			2967532	14.712	15.709	110
3			2466931	14.170	15.169	110

```

-----
<<<Statistics>>> Mean: 2675582 Std Dev: 260489 RSD: 9.74
=====
    
```

```

Sample ID:  1000 ppm         Mode:      TOC
Method:     Boat Sampler      Filename:   11131526
Cal. Curve: 11132012 BOAT CAL Timestamp:  2012/11/13 15:37
Operator ID: TRINA           Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5290649	14.574	15.571	132
2			5344637	14.534	15.533	131

```

-----
<<<Statistics>>> Mean: 5317643 Std Dev: 38175 RSD: 0.72
=====
    
```

```

Sample ID:  200 ppm          Mode:      TOC
Method:     Boat Sampler      Filename:   11131539
Cal. Curve: 11132012 BOAT CAL Timestamp:  2012/11/13 15:57
Operator ID: TRINA           Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1133964	14.834	15.826	75
2			1682541	14.702	15.699	105
3			1391072	14.832	15.828	89

```

-----
<<<Statistics>>> Mean: 1402526 Std Dev: 274468 RSD: 19.57
=====
    
```

Sample ID: 500 ppm Mode: TOC
 Method: Boat Sampler Filename: 11131603
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/13 16:30
 Operator ID: TRINA Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			2617921	14.909	15.904	100
2			2699842	15.434	16.427	110
3			2518382	15.642	16.642	96

<<<Statistics>>> Mean: 2612048 Std Dev: 90872 RSD: 3.48

Sample ID: 1000 ppm Mode: TOC
 Method: Boat Sampler Filename: 11131635
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/13 16:48
 Operator ID: TRINA Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6098208	15.069	16.068	161
2			4400089	15.386	16.386	294

<<<Statistics>>> Mean: 5249148 Std Dev: 1200752 RSD: 22.88

Sample ID: 1000 ppm Mode: TOC
 Method: Boat Sampler Filename: 11131653
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/13 17:08
 Operator ID: TRINA Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5668054	15.386	16.386	134
2			5866553	15.432	16.430	156
3			5812538	15.792	16.787	158

<<<Statistics>>> Mean: 5782382 Std Dev: 102628 RSD: 1.77

Sample ID: 2500 ppm Mode: TOC
 Method: Boat Sampler Filename: 11131715
 Cal. Curve: 11132012 BOAT CAL Timestamp: 2012/11/13 17:46
 Operator ID: TRINA Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			12880510	15.475	16.474	209
2			14040075	15.646	16.644	232
3			13519835	15.412	16.411	232

<<<Statistics>>> Mean: 13480140 Std Dev: 580801 RSD: 4.31

**Geotechnical Raw Data
Analyst Notes and Raw Data**

ARI Job ID: VR82

Analytical Resources, Inc.

Pore Water Extraction

ARI Job No.: VR82 Date: 11/13/12 Tested By: [Signature] Analytes: TBT
 Volume Required: 150ml Filtered ()
 Filter Material: _____
 Filter Size: _____

Aerobic
 Anaerobic

Centrifugation 1:	Centrifugation 2:	Equip ID	Speed:	Temp:	Duration:	O2 Level:
		3	3000xg	4°C	30min	<1%
		4	3000xg	4°C	30min	<1%

Centrifugation 1				Decant Time
ARI ID	Start Time	Estimated Recovery		
A	14:50	700		15:31
B	14:50	425		15:32
C	14:50	55		15:34
D	14:50	375		15:35

Centrifugation 2				Decant Time
ARI ID	Start Time	Estimated Recovery		
A	16:35	675		17:25
B	15:55	400		14:37
C	16:35	360 50		17:22
D	15:55	360		14:39

Notes:

Analytical Resources, Inc.

Pore Water Extraction

ARI Job No.: VR82 Date: 4/13/12 Tested By: gc Analytes: TBT

Volume Required: 150ml Filtered ()
 Filter Material: _____
 Filter Size: _____

Aerobic ()
 Anaerobic (X)

Centrifugation 1:	Equip ID	Speed	Temp	Duration	O2 Level
	3	3000g	4°C	30 min	< 1%
Centrifugation 2:	Equip ID	Speed	Temp	Duration	O2 Level
	4	7000g	4°C	30 min	< 1%

Centrifugation 1			
ARI ID	Start Time	Estimated Recovery	Decant Time
E	14:50	315	15:35
F	14:50	200	15:30
G	15:38	200	16:21
H	15:38	300	16:22

Centrifugation 2			
ARI ID	Start Time	Estimated Recovery	Decant Time
E	15:55	300	14:42
F	17:20	200	18:04
G	17:20	200	18:05
H	17:55	275	18:39

Notes:

Analytical Resources, Inc.

Pore Water Extraction

ARI Job No.: VR82 Date: 11/13/12 Tested By: gs Analytes: TBT

Volume Required: 150ml Filtered ()
 Filter Material: _____
 Filter Size: _____

Aerobic ()
 Anaerobic

Centrifugation 1:	Equip ID	Speed:	Temp:	Duration:	O2 Level:
	3	300xg	4°C	30min	<1%
Centrifugation 2:	Equip ID	Speed:	Temp:	Duration:	O2 Level:
	4	700xg	4°C	30min	<1%

Centrifugation 1			
ARI ID	Start Time	Estimated Recovery	Decant Time
I	15:38	325	16:23

Centrifugation 2			
ARI ID	Start Time	Estimated Recovery	Decant Time
I	17:55	300	18:40

Notes:

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: E1 Client Sample No.: SG-06-S-C-1211

Set-up Date: 11-16-2012 Sample Description: SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content	Initials: <u>egj</u>
Container No.	<u>110</u>
Tare Weight	<u>1.5442</u>
Wet Weight + Tare	<u>37.7442</u>
Dry Weight + Tare	<u>12.0766</u>

Test Sample	Initials: <u>egj</u>
Container No.	<u>110</u>
Tare Weight	<u>50.3519</u>
Wet Weight + Tare	<u>90.4261</u>
Dry Weight + Tare	<u>56.3874</u>

Calgon Batch #: 276

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: ket

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:02:00			
12:02:20	E1-1	1.5238	1.6676
12:03:46	E1-2	1.5349	1.6557
12:09:05	E1-3	1.5311	1.6149
12:30:18	E1-4	1.5298	1.58747 <u>egj</u>
13:55:00	E1-5	1.5358	1.5722
17:28:00	E1-6	1.5321	1.5534
10:38:00	E1-7	1.5382	1.5518

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 1 Initials: egj

Sieve Size	Weight Retained
Tare	<u>50.3834</u>
4	<u>50.3834</u>
10	<u>50.3834</u>
18	<u>51.2458</u>
35	<u>52.0162</u>
60	<u>52.7431</u>
120	<u>53.7488</u>
230	<u>55.6071</u>
PAN	<u>1.3906</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: E2 Client Sample No.: SG-06-S-C-1211

Set-up Date: 11-16-2012 Sample Description: SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content		Initials: <u>ey</u>
Container No.	<u>112</u>	
Tare Weight	<u>1.5576</u>	
Wet Weight + Tare	<u>29.30.0669 ey</u>	
Dry Weight + Tare	<u>9.8378</u>	

Test Sample		Initials: <u>ey</u>
Container No.	<u>112</u>	
Tare Weight	<u>50.3477</u>	
Wet Weight + Tare	<u>90.1994</u>	
Dry Weight + Tare	<u>56.9786</u>	

Calgon Batch #: 276

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: AB

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:05:00			
12:05:20	E2.1	1.5347	1.6708
12:06:46	E2.2	1.5336	1.6483
12:12:05	E2.3	1.5393	1.6183
12:33:18	E2.4	1.5316	1.5827
13:58:00	E2.5	1.5337	1.5649
17:31:00	E2.6	1.5387	1.5580
10:41:00	E2.7	1.5378	1.5507

1115F-A
Rev. 01

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 2 Initials: ey

Sieve Size	Weight Retained
Tare	<u>50.3769</u>
4	<u>50.3769</u>
10	<u>50.4052</u>
18	<u>51.2046</u>
35	<u>51.9377</u>
60	<u>52.4969</u>
120	<u>53.5397</u>
230	<u>55.3610</u>
PAN	<u>1.6614</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

VR82 : 02059

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: E-3 Client Sample No.: SG-06-S-C-1211
 Set-up Date: 11-16-2012 Sample Description: SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content	Initials: <u>ey</u>
Container No.	<u>115</u>
Tare Weight	<u>1.5394</u>
Wet Weight + Tare	<u>27.2904</u>
Dry Weight + Tare	<u>9.0517</u>

Test Sample	Initials: <u>ey</u>
Container No.	<u>115</u>
Tare Weight	<u>51.2533</u>
Wet Weight + Tare	<u>91.1541</u>
Dry Weight + Tare	<u>57.8044</u>

Calgon Batch #: 270

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: ab

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:08:00			
12:08:20	E3-1	1.5309	1.6682
12:09:46	E3-2	1.5243	1.6384
12:15:05	E3-3	1.5422	1.6221
12:36:18	E3-4	1.5431	1.5955
14:01:00	E3-5	1.5412	1.5732
17:34:00	E3-6	1.5464	1.5661
10:44:00	E3-7	1.5445	1.5574

1115F-A
Rev. 01

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: L Initials: ey

Sieve Size	Weight Retained
Tare	<u>51.2851</u>
4	<u>51.2851</u>
10	<u>51.2851</u>
18	<u>52.2144</u>
35	<u>52.9207</u>
60	<u>53.5587</u>
120	<u>54.5713</u>
230	<u>56.4029</u>
PAN	<u>1.6012</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

VR82 : 02060

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: A Client Sample No.: SG-02-S-C-1211
 Set-up Date: 11-16-2012 Sample Description: SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content	Initials: <u>ey</u>
Container No.	<u>117</u>
Tare Weight	<u>1.5375</u>
Wet Weight + Tare	<u>35.6261</u>
Dry Weight + Tare	<u>50.139.7454</u> <u>ey</u>

Test Sample	Initials: <u>ey</u>
Container No.	<u>117</u>
Tare Weight	<u>50.1182</u>
Wet Weight + Tare	<u>95.0424</u>
Dry Weight + Tare	<u>54.9824</u>

Calgon Batch #: 276

11/23/2012 PIPETTE ANALYSIS

Temp: 23 Initials: ey

TIME

Time	Tare ID	Tare Wt	Dry Wt & Tare
12:11:00			
12:11:20	<u>A1</u>	<u>1.5493</u>	<u>1.6996</u>
12:12:46	<u>A2</u>	<u>1.5223</u>	<u>1.6519</u>
12:18:05	<u>A3</u>	<u>1.5270</u>	<u>1.6153</u>
12:39:18	<u>A4</u>	<u>1.5333</u>	<u>1.5889</u>
14:04:00	<u>A5</u>	<u>1.5277</u>	<u>1.5594</u>
17:37:00	<u>A6</u>	<u>1.5253</u>	<u>1.5449</u>
10:47:00	<u>A7</u>	<u>1.5240</u>	<u>1.5367</u>

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 2 Initials: ey

Sieve Size	Weight Retained
Tare	<u>50.1362</u>
4	<u>50.1362</u>
10	<u>50.1748</u>
18	<u>50.8738</u>
35	<u>51.4730</u>
60	<u>52.0684</u>
120	<u>52.8472</u>
230	<u>53.8326</u>
PAN	<u>1.1702</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: B Client Sample No.: SG-03-SC-1211

Set-up Date: 11-16-2012 Sample Description: SILT ORGANIC FINES DEBRIS SHELL

SOLIDS CONTENT

Moisture Content	Initials: <u>ey</u>
Container No.	<u>121</u>
Tare Weight	<u>1.5284</u>
Wet Weight + Tare	<u>42.4258</u>
Dry Weight + Tare	<u>11.7976</u>

Test Sample	Initials: <u>ey</u>
Container No.	<u>121</u>
Tare Weight	<u>50.9314</u>
Wet Weight + Tare	<u>95.7337</u>
Dry Weight + Tare	<u>56.9584327</u>

Calgon Batch #: 276

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 1 Initials: ey

Sieve Size	Weight Retained
Tare	<u>50.9599</u>
4	<u>52.2827</u>
10	<u>52.2827</u>
18	<u>53.3205</u>
35	<u>54.1287</u>
60	<u>54.9342</u>
120	<u>55.848</u>
230	<u>56.9549</u>
PAN	<u>1.5467</u>

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: AT

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:14:00			
12:14:20	<u>B1</u>	<u>1.5251</u>	<u>1.6424</u>
12:15:46	<u>B2</u>	<u>1.5085</u>	<u>1.5947</u>
12:21:05	<u>B3</u>	<u>1.5067</u>	<u>1.5739</u>
12:42:18	<u>B4</u>	<u>1.5115</u>	<u>1.5540</u>
14:07:00	<u>B5</u>	<u>1.5479</u>	<u>1.5744</u>
17:40:00	<u>B6</u>	<u>1.5494</u>	<u>1.5657</u>
10:50:00	<u>B7</u>	<u>1.5501</u>	<u>1.5624</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: C Client Sample No.: SA-04-SC-1211

Set-up Date: 11-16-2012 Sample Description: silty SANDY GRAVEL

SOLIDS CONTENT

Moisture Content	Initials: <u>eg</u>
Container No.	<u>124</u>
Tare Weight	<u>15388</u>
Wet Weight + Tare	<u>113.3467</u>
Dry Weight + Tare	<u>97.5309</u>

Test Sample	Initials: <u>eg</u>
Container No.	<u>124</u>
Tare Weight	<u>51.1512</u>
Wet Weight + Tare	<u>201.3789</u>
Dry Weight + Tare	<u>177.6843</u>

Calgon Batch #: 276

11/23/2012 PIPETTE ANALYSIS

Temp: 23 Initials: ab

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:44:00			
12:44:20	<u>C1</u>	<u>1.5127</u>	<u>1.5996</u>

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 2 Initials: eg

Sieve Size	Weight Retained
Tare	<u>51.1726</u>
4	<u>116.1013</u>
10	<u>1423.2517</u>
18	<u>153.0960</u>
35	<u>162.0530</u>
60	<u>171.8924</u>
120	<u>175.6836</u>
230	<u>176.9869</u>
PAN	<u>0.7456</u>

SALT CORRECTION 3.1g

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: D Client Sample No.: SG-05-SC-1211

Set-up Date: 11-16-2012 Sample Description: SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content		Initials: <u>ey</u>
Container No.	131	
Tare Weight	<u>ey</u> 1.5390	1.5357
Wet Weight + Tare	60.0202	
Dry Weight + Tare	<u>ey</u> 48.379	20.9332

Test Sample		Initials: <u>ey</u>
Container No.	131	
Tare Weight	49.6011	
Wet Weight + Tare	95.9362	
Dry Weight + Tare	58.1525	

Calgon Batch #: 231e

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 1 Initials: ey

Sieve Size	Weight Retained
Tare	49.6064
4	50.0213
10	50.0758
18	50.5229
35	51.33408
60	58.0525
120	55.2432
230	57.5837
PAN	0.6021

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: ey

TIME

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:17:00			
12:17:20	D1	1.5499	1.7032
12:18:46	D2	1.5323	1.6646
12:24:05	D3	1.5332	1.6171
12:45:18	D4	1.5230	1.5769
14:10:00	D5	1.5372	1.5697
17:43:00	D6	1.5383	1.5579
10:53:00	D7	1.5545	1.5682

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: F Client Sample No.: SG-07-SC-1211

Set-up Date: 11.16.2012 Sample Description: silty sandy organic fines & debris

SOLIDS CONTENT

Moisture Content	Initials: <u>ef</u>
Container No.	<u>135</u>
Tare Weight	<u>1.5381</u>
Wet Weight + Tare	<u>51.6423</u>
Dry Weight + Tare	<u>18.4448</u>

Test Sample	Initials: <u>ef</u>
Container No.	<u>135</u>
Tare Weight	<u>50.3658</u>
Wet Weight + Tare	<u>96.0089</u>
Dry Weight + Tare	<u>59.6504</u>

Calgon Batch #: 276

11/23/2012

PIPETTE ANALYSIS

Temp: 23

Initials: ef

TIME

Time	Tare ID	Tare Wt	Dry Wt & Tare
12:20:00			
12:20:20	F1	1.5418	1.6862
12:21:46	F2	1.5376	1.6488
12:27:05	F3	1.5215	1.5957
12:48:18	F4	1.5164	1.5664
14:13:00	F5	1.5507	1.5827
17:46:00	F6	1.5399	1.5602
10:56:00	F7	1.5355	1.5480

SIEVE ANALYSIS

Sieve Date: 11.23.2012

Sieve Set #: 2 Initials: ef

Sieve Size	Weight Retained
Tare	<u>50.3727</u>
4	<u>50.3727</u>
10	<u>50.4489</u>
18	<u>50.8671</u>
35	<u>51.3478</u>
60	<u>52.3143</u>
120	<u>56.0689</u>
230	<u>58.9858</u>
PAN	<u>0.7363</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: G Client Sample No.: SG-07-SC-dup-1211
 Set-up Date: 11-16-2012 Sample Description: sandy silty silty organic fines & debris

SOLIDS CONTENT

Moisture Content	Initials: <u>ey</u>
Container No.	<u>142</u>
Tare Weight	<u>1.5245</u>
Wet Weight + Tare	<u>44.6813</u>
Dry Weight + Tare	<u>16.1321</u>

Test Sample	Initials: <u>ey</u>
Container No.	<u>142</u>
Tare Weight	<u>50.6696</u>
Wet Weight + Tare	<u>96.1186</u>
Dry Weight + Tare	<u>59.6825</u>

Calgon Batch #: 276

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 1 Initials: ey

Sieve Size	Weight Retained
Tare	<u>50.6741</u>
4	<u>50.8926</u>
10	<u>51.0793</u>
18	<u>51.4906</u>
35	<u>51.9211</u>
60	<u>52.8460</u>
120	<u>56.2149</u>
230 <u>ey</u>	<u>58.0757</u>
PAN	<u>0.6638</u>

11/23/2012 PIPETTE ANALYSIS

Temp: 23 Initials: vet

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:23:00			
12:23:20	<u>G1</u>	<u>1.5553</u>	<u>1.6953</u>
12:24:46	<u>G2</u>	<u>1.5309</u>	<u>1.6351</u>
12:30:05	<u>G3</u>	<u>1.5492</u>	<u>1.6206</u>
12:51:18	<u>G4</u>	<u>1.5339</u>	<u>1.5827</u>
14:16:00	<u>G5</u>	<u>1.5230</u>	<u>1.5536</u>
17:49:00	<u>G6</u>	<u>1.5241</u>	<u>1.5431</u>
10:59:00	<u>G7</u>	<u>1.5448</u>	<u>1.5574</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: H Client Sample No.: SG-08-S-C-1211

Set-up Date: 11-16-2012 Sample Description: SANDY SILTY ORGANIC FINES & DEBRIS

SOLIDS CONTENT

Moisture Content	Initials: <u>eg</u>
Container No.	<u>145</u>
Tare Weight	<u>1.5758</u>
Wet Weight + Tare	<u>57.8577</u>
Dry Weight + Tare	<u>24.6250</u>

Test Sample	Initials: <u>eg</u>
Container No.	<u>145</u>
Tare Weight	<u>50.7413</u>
Wet Weight + Tare	<u>92.1910</u>
Dry Weight + Tare	<u>60.3451</u>

Calgon Batch #: 2716

11/23/2012 PIPETTE ANALYSIS

Temp: 23 Initials: kt

TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:26:00			
12:26:20	<u>H1</u>	<u>1.5383</u>	<u>1.7078</u>
12:27:46	<u>H2</u>	<u>1.5344</u>	<u>1.6648</u>
12:33:05	<u>H3</u>	<u>1.5211</u>	<u>1.6060</u>
12:54:18	<u>H4</u>	<u>1.5207</u>	<u>1.5777</u>
14:19:00	<u>H5</u>	<u>1.5433</u>	<u>1.5793</u>
17:52:00	<u>H6</u>	<u>1.5574</u>	<u>1.5804</u>
11:02:00	<u>H7</u>	<u>1.5193</u>	<u>1.5337</u>

SIEVE ANALYSIS

Sieve Date: 11-23-2012

Sieve Set #: 2 Initials: eg

Sieve Size	Weight Retained
Tare	<u>50.7489</u>
4	<u>50.7489</u>
10	<u>50.8035</u>
18	<u>51.0509</u>
35	<u>51.3044</u>
60	<u>51.9756</u>
120	<u>55.7579</u>
230	<u>59.3649</u>
PAN	<u>0.9916</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: VR82 ARI Sample Letter: I Client Sample No.: SG-09.S.C.1211

Set-up Date: 11/16/2012 Sample Description: sandy, silty organic fines & debris

SOLIDS CONTENT

Moisture Content		Initials: <u>eg</u>
Container No.	<u>151</u>	
Tare Weight	<u>1.5397</u>	
Wet Weight + Tare	<u>39.0454</u>	
Dry Weight + Tare	<u>14.4534</u>	

Test Sample		Initials: <u>eg</u>
Container No.	<u>151</u>	
Tare Weight	<u>49.8325</u>	
Wet Weight + Tare	<u>95.9631</u>	
Dry Weight + Tare	<u>56.9084</u>	

Calgon Batch #: 276

SIEVE ANALYSIS

Sieve Date: 11/23/2012

Sieve Set #: 1 Initials: eg

Sieve Size	Weight Retained
Tare	<u>49.8333</u>
4	<u>49.8333</u>
10	<u>49.8551</u>
18	<u>50.1912</u>
35	<u>50.4685</u>
60	<u>51.5647</u>
120	<u>54.0956</u>
230	<u>56.2289</u>
PAN	<u>0.7027</u>

11/23/2012 PIPETTE ANALYSIS

Temp: 23 Initials: ea


TIME	Tare ID	Tare Wt	Dry Wt & Tare
12:29:00			
12:29:20	<u>I1</u>	<u>1.5790</u>	<u>1.7113</u>
12:30:46	<u>I2</u>	<u>1.5411</u>	<u>1.6750</u>
12:36:05	<u>I3</u>	<u>1.5279</u>	<u>1.6217</u>
12:57:18	<u>I4</u>	<u>1.5185</u>	<u>1.5786</u>
14:22:00	<u>I5</u>	<u>1.5267</u>	<u>1.5631</u>
17:55:00	<u>I6</u>	<u>1.5135</u>	<u>1.5354</u>
11:05:00	<u>I7</u>	<u>1.5177</u>	<u>1.5315</u>

SALT CORRECTION

Date: _____ Initials: _____

Tare Weight	
Dry Weight + Tare	

Calgen Batch #276

11/8/12 

	Tare wt	Dry Wt + Tare	Calgen Wt.
1	1.5682	2.0251	0.4569
			0
2	1.5554	2.1560	0.6006
3	1.5235	1.9825	0.4590
4	1.5783	2.0485	0.4702
5	1.5240	1.9800	0.4560

AVERAGE = 0.4885