

# Memorandum

**To:** David South, Washington State Department of Ecology  
**Copies:** Don Robbins, Port of Seattle  
**From:** Floyd|Snider  
**Date:** REVISED September 9, 2013  
**Project No:** POS-LLA T.8110  
**Re:** **Lora Lake Parcel Soil Sampling Results**

This memorandum is a supplement to the Remedial Investigation/Feasibility Study (RI/FS) and presents the results of shallow soil data collection activities conducted as part of remedial design for the Lora Lake Apartments Site (Site) located in Burien, Washington. These data were collected according to the draft Pre-design Characterization Work Plan (Floyd|Snider 2013) and will be incorporated into the Engineering Design Report for the Site.

The purpose of this investigation was to further delineate the extent of dioxin/furan contamination in shallow soil at the Lora Lake Parcel (LL Parcel) area of the Site (refer to Figure 1). The investigation included collection of shallow soil samples via hand auger at six locations within the LL Parcel, between Des Moines Memorial Drive and Lora Lake. Five of these sampling locations were selected to assist with definition of the lateral extent of dioxin/furan contamination detected during the Remedial Investigation (RI); and one additional location was selected to provide additional information for definition of the vertical extent of contamination near Boring LL-SB5 installed during the RI. Data collection included both physical observation and chemical analysis of collected soil samples.

## SOIL INVESTIGATION PROCEDURES

Soil samples were collected at six locations (LL-SB5 and LL-SB7 through LL-SB11) at the LL Parcel from the Shallow Soil Cleanup Area determined in the site RI/FS. Sampling was conducted on February 26, 2013. The shallow soil sample locations are shown on Figure 2.

### Soil Boring Procedures

Floyd|Snider field staff installed six soil borings using a hand auger. At locations LL-SB7 through LL-SB11, soil samples were collected from each boring at three depth intervals: 0–0.5 feet, 1.5–2 feet, and 2–4 feet below ground surface (bgs). At location LL-SB5B, collocated with RI boring location LL-SB5, a soil sample was collected only from the 4- to 5-foot bgs depth interval. The hand auger has a cutting end (bit) that advances the device through the subsurface as it is manually turned. A disturbed soil sample was collected at each depth interval and lifted within the auger to the surface where the sample was transferred to a decontaminated stainless steel bowl for visual classification, field screening for contamination, and sample collection for

chemical analysis. All non-disposable sampling equipment, including the hand auger, was decontaminated between boring locations.

Soil samples were visually classified in accordance with the Unified Soil Classification System (USCS) and photographed. Soil descriptions were recorded on Soil Boring Logs (Attachment 1). Soil boring LL-SB5B was only logged from 4–5 feet bgs, as conditions in the top 4 feet were consistent with those documented for Boring LL-SB5.

Field screening was performed to identify areas of potential contamination according to the methods described in the Pre-design Characterization Work Plan, and consistent with methods conducted during the RI. To determine whether sheen was present, a small volume of each soil sample was placed in a stainless steel bowl with water. All observations regarding indications of contamination were also recorded on the boring logs (Attachment 1).

Sample collection for chemical analysis was conducted by homogenizing the sample material until the soil was uniform in color and texture, then placing the soil into laboratory-provided sample containers. All sample containers were tightly capped, labeled, and immediately placed in a cooler maintained at a temperature of approximately 4°C using crushed ice. The soil samples were delivered to Analytical Resources, Inc. (ARI) in Tukwila, Washington under standard chain-of-custody procedures.

### **Field Observations and Documentation**

As part of the soil sample collection, the following information was recorded on each Soil Boring Log (included as Attachment 1):

- Date, time, and name of the person logging the sample
- Sample location number
- Soil sample depth and soil description
- Sample recovery
- Presence of debris
- Presence of sheen or any other indications of contamination

No sheens, odors, or other indications of contamination were observed in any of the LL Parcel hand auger borings. Generally, soil types consisted of a 0.5- to 1-foot thick organic horizon underlain by brown or gray-brown, silty fine sand or fine sand. Organic materials, such as plant roots and wood chips, were noted in the surface samples from each location.

## **ANALYTICAL TESTING AND RESULTS**

### **Analytical Methods**

Soil samples collected for chemical testing were analyzed for dioxins/furans by U.S. Environmental Protection Agency (USEPA) Method 1613. The chemical analysis was performed by ARI. Samples collected from the two uppermost depth intervals (0–0.5 and 1.5–2 feet bgs) were analyzed immediately and samples collected from the deeper (2–4 feet

bgs) intervals were archived for potential future analysis. The sample collected from the 4- to 5-foot bgs interval from Boring LL-SB5B was also analyzed immediately.

Analytical results for the soil samples are presented in Table 1. The laboratory analytical report and Chain-of-Custody Form are presented in Attachment 2.

### Data Quality

A Level IV, Tier III Data Quality Review (Full Validation) was performed on the dioxin/furan data by EcoChem, Inc. of Seattle, Washington. The EcoChem Data Validation Report is provided in Attachment 3.

Data validation was based on the quality control criteria as recommended in the methods identified in the LL Parcel RI/FS Work Plan (Floyd|Snider 2011), the National Functional Guidelines for Organic and/or Inorganic Data Review (USEPA 2004 and 2008) and the *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA 2005).

As determined by this evaluation, the laboratory followed the specified analytical methods, and all data as qualified were determined to be acceptable for use. Detail on data validation and data qualification is included in Attachment 3.

### Results

All analytical samples analyzed contained at least one dioxin/furan congener. Toxicity Equivalency Quotients (TEQs) for all chlorinated dibenzo-p-dioxins and dibenzofuran congeners were calculated according to Toxicity Equivalency Factors specified in the Model Toxics Control Act (Washington Administrative Code [WAC] 173-340-900, Table 708-2), and were consistent with previous TEQ calculations for site RI data. For those samples with congener concentrations flagged as undetected, TEQs were calculated with 'non-detect' values set to one-half of the detection limit.

In soil boring locations LL-SB7 through LL-SB11, dioxin/furan TEQ concentrations were generally less than 6 picograms per gram (pg/g). The minimum dioxin/furan TEQ calculated was 0.199 J pg/g (where "J" refers to estimated) in the sample collected from 1.5–2 feet bgs at Boring LL-SB11. The maximum TEQ detected was 6.12 pg/g in the sample collected from the 1.5- to 2-foot depth interval of LL-SB9.

At Boring LL-SB5B, a dioxin/furan TEQ concentration of 40.1 J pg/g was detected in the sample collected from 4–5 feet bgs. During the RI, dioxin/furan TEQ concentrations detected in shallow soil at the LL Parcel ranged from 0.307 pg/g to 40.4 pg/g.

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Figure 1 Vicinity Map

Figure 2 Lora Lake Parcel Shallow Soil Sampling Data

## LIST OF ATTACHMENTS

Attachment 1 Boring Logs

Attachment 2 Analytical Data Report

Attachment 3 Data Validation Report

## REFERENCES

Floyd|Snider. 2011. *Remedial Investigation/Feasibility Study Work Plan, Port of Seattle Lora Lake Parcel*. Prepared for Port of Seattle. 11 February.

\_\_\_\_\_. 2013. *Pre-design Characterization Work Plan, Port of Seattle Lora Lake Apartments Site*. Prepared for Port of Seattle. DRAFT. 18 January

U. S. Environmental Protection Agency (USEPA). 2004. *USEPA National Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. OSWER 9240.1-45, EPA 540-R-04-004. Office of Superfund Remediation and Technology Innovation (OSRTI), Washington, D.C. October.

\_\_\_\_\_. 2005. *USEPA Contract Laboratory Program, National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* EPA-540/R-05/001. September.

\_\_\_\_\_. 2008. *USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*. EPA-540/R-99/008. October. Washington State Department of Ecology (WSDOE). 2007. *Model Toxics Control Act Regulation*. Chapter 173-340 WAC. 12 October.

Van den Berg, M., L.S. Birnbaum, M. Denison, M. De Vito, W. Farland, M. Feeley, H. Fiedler, H. Hakansson, A. Hanberg, L. Haws, M. Rose, S. Safe, D. Schrenk, C. Tohyama, A. Tritscher, J. Tuomisto, M. Tysklind, N. Walker, and R.E. Peterson. 2006. "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds." *Toxicological Sciences* 93(2): 223-241. New York, New York: Oxford University Press on behalf of the Society of Toxicology.

Washington State Department of Ecology (WSDOE). 2007. *Model Toxics Control Act Regulation*. Chapter 173-340 WAC. 12 October.

**Table**

Table 1  
Analytical Results<sup>1</sup>

Location		LL-SB1				LL-SB2			LL-SB3			LL-SB4
Sample ID		LL-SB1-0-0.5-041911	LL-SB1-0-0.5-041911-D	LL-SB1-1.5-2-041911	LL-SB1-2-4-041911	LL-SB2-0-0.5-041911	LL-SB2-1.5-2-041911	LL-SB2-2-3.5-041911	LL-SB3-0-0.5-041911	LL-SB3-1.5-2-041911	LL-SB3-2-4-041911	LL-SB4-0-0.5-041911
Sample Date		4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011	4/19/2011
Sample Depth (ft bgs)		0-0.5	0-0.5	1.5-2	2-4	0-0.5	1.5-2	2-3.5	0-0.5	1.5-2	2-4	0-0.5
Analyte	Units											
2,3,7,8-TCDD	pg/g	0.193 U	0.185 U	0.611 J	0.671 J	7.82	0.208 U	0.157 U	2.11	0.567 J	0.888 J	1.35
1,2,3,7,8-PeCDD	pg/g	0.278 U	0.252 U	0.377 U	0.314 U	1.19 J	0.273 U	0.21 U	0.637 J	0.277 U	0.381 U	0.768 J
1,2,3,4,7,8-HxCDD	pg/g	0.291 U	0.261 U	0.32 U	0.524 J	1.72 J	0.286 U	0.245 U	0.941 J	0.258 U	0.364 U	1.15 J
1,2,3,6,7,8-HxCDD	pg/g	0.364 U	0.331 U	0.942 J	1.41 J	5.33	0.367 U	0.319 U	3.67 J	0.828 J	1.7 J	4.76 J
1,2,3,7,8,9-HxCDD	pg/g	0.32 U	0.289 U	0.653 J	0.908 J	2.63 J	0.319 U	0.275 U	1.91 J	0.679 J	0.902 J	2.48 J
1,2,3,4,6,7,8-HpCDD	pg/g	2.53 J	6.18	16.1	33.1	119	1.87 J	1.71 J	82.6	21.3	35.2	128
Total OCDD	pg/g	18.6 J	61.9 J	112 J	251 J	978 J	13.3 J	15.3 J	665	150 J	239 J	1150
2,3,7,8-TCDF	pg/g	0.168 U	0.157 U	0.267 U	0.389 J	1.49	0.173 U	0.133 U	0.785 J	0.215 U	0.378 J	1.09
1,2,3,7,8-PeCDF	pg/g	0.231 U	0.166 U	0.246 U	0.204 U	0.785 J	0.202 U	0.157 U	0.333 U	0.235 U	0.26 U	0.471 J
2,3,4,7,8-PeCDF	pg/g	0.243 U	0.176 U	0.284 U	0.433 J	1.82 J	0.215 U	0.175 U	0.664 J	0.26 U	0.366 J	0.772 J
1,2,3,4,7,8-HxCDF	pg/g	0.177 U	0.155 U	0.26 U	0.586 J	2.22 J	0.212 U	0.168 U	1.04 J	0.225 U	0.496 J	1.29 J
1,2,3,6,7,8-HxCDF	pg/g	0.181 U	0.156 U	0.251 U	0.451 J	1.72 J	0.208 U	0.167 U	0.76 J	0.222 U	0.405 J	0.836 J
1,2,3,7,8,9-HxCDF	pg/g	0.184 U	0.172 U	0.49 J	0.688 J	2.72 J	0.234 U	0.183 U	1.11 J	0.411 J	0.506 J	1.4 J
2,3,4,6,7,8-HxCDF	pg/g	0.192 U	0.16 U	0.257 U	0.248 U	0.434 J	0.222 U	0.172 U	0.323 U	0.245 U	0.331 U	0.258 J
1,2,3,4,6,7,8-HpCDF	pg/g	0.483 J	0.562 J	3.2 J	6.32	27.4	0.497 J	0.365 J	15.6	3.58 J	5.52	24.3
1,2,3,4,7,8,9-HpCDF	pg/g	0.379 U	0.322 U	0.388 U	0.49 U	2.11 J	0.396 U	0.29 U	1.11 J	0.429 U	0.488 U	1.27 J
Total OCDF	pg/g	1.18 UJ	1.31 UJ	7.18 J	15.2 J	72.6 J	1.51 UJ	1.07 U	47.8	9.58 J	14.8 J	76
Summed Dioxin/Furan TEQ <sup>2,3,5</sup>	pg/g	0.0357 J	0.086 J	1.05 J	1.77 J	13.2 J	0.0277 J	0.0253 J	5.17 J	1.06 J	1.92 J	5.59 J
Summed Dioxin/Furan TEQ with One-half of the Detection Limit <sup>2,4,5</sup>	pg/g	0.407 J	0.419 J	1.35 J	1.95 J	13.2 J	0.407 J	0.322 J	5.20 J	1.30 J	2.15 J	5.59 J

Notes:

- 1 Table includes data collected at the Lora Lake Parcel during the 2011 Remedial Investigation.
- 2 World Health Organization 2005 Toxic Equivalency Factors used for calculation of dioxin/furan TEQ (van den Berg et al. 2006).
- 3 TEQ calculated using detected dioxin/furan concentrations.
- 4 TEQ calculated using detected dioxin/furan concentrations plus one-half the detection limit for dioxins/furans that were not detected.
- 5 TEQ values are rounded to three significant figures.

Abbreviations:

- ft bgs Feet below ground surface
- pg/g Picograms per gram
- TEQ Toxic Equivalency Quotient
- HpCDD Heptachloro dibenzo-p-dioxin
- HpCDF Heptachloro dibenzofuran
- HxCDD Hexachloro dibenzo-p-dioxin
- HxCDF Hexachloro dibenzofuran
- OCDD Octachloro dibenzo-p-dioxin
- OCDF Octachloro dibenzofuran
- PeCDD Pentachloro dibenzo-p-dioxin
- PeCDF Pentachloro dibenzofuran
- TCDD Tetrachloro dibenzo-p-dioxin
- TCDF Tetrachloro dibenzofuran

Qualifiers:

- J Analyte is detected, value is considered estimated.
- U Analyte is not detected at given reporting limit.
- UJ Undetected but value given is an estimated reporting limit.

Table 1  
Analytical Results<sup>1</sup>

Location		LL-SB4		LL-SB5			LL-SB5B	LL-SB6			LL-SB7	
Sample ID		LL-SB4-1.5-2-041911	LL-SB4-2-4-041911	LL-SB5-0-0.5-041811	LL-SB5-1.5-2-041811	LL-SB5-2-4-041811	LL-SB5B-4-5-022613	LL-SB6-0-0.5-041811	LL-SB6-1.5-2-041811	LL-SB6-2-4-041811	LL-SB7-0-0.5-022613	LL-SB7-1.5-2-022613
Sample Date		4/19/2011	4/19/2011	4/18/2011	4/18/2011	4/18/2011	02/26/2013	4/18/2011	4/18/2011	4/18/2011	02/26/2013	02/26/2013
Sample Depth (ft bgs)		1.5-2	2-4	0-0.5	1.5-2	2-4	4-5	0-0.5	1.5-2	2-4	0-0.5	1.5-2
Analyte	Units											
2,3,7,8-TCDD	pg/g	0.119 U	0.134 U	1.39	1.13	7.35	0.945	0.89 J	0.317 J	0.193 U	0.314 U	0.219 U
1,2,3,7,8-PeCDD	pg/g	0.198 U	0.23 U	1.19 J	1.44 J	2.32 J	5.4	7.97	1.21 J	0.767 J	0.771 J	0.859 J
1,2,3,4,7,8-HxCDD	pg/g	0.214 U	0.226 U	1.85 J	2.28 J	3.56 J	10	15.9	2.04 J	1.19 J	0.919 J	1.31
1,2,3,6,7,8-HxCDD	pg/g	0.28 U	0.287 U	8.17	11.2	18	44.7	46.6	8.56	5.5	2.59	4.3
1,2,3,7,8,9-HxCDD	pg/g	0.241 U	0.25 U	4.23 J	5.11	8.08	20.8	30.3	4.05 J	2.29 J	1.58	2.82 U
1,2,3,4,6,7,8-HpCDD	pg/g	3.08 J	1.17 J	217	331	521	1330	1330	238	154	57.6	106
Total OCDD	pg/g	26.4	10.3 J	2140	3390	5170	15600 J	10700	2440	1710	524	945
2,3,7,8-TCDF	pg/g	0.108 U	0.105 U	1.32	0.671 J	1.13	0.654	0.477 J	0.625 J	0.286 J	0.674	0.412 U
1,2,3,7,8-PeCDF	pg/g	0.129 U	0.147 U	0.772 J	0.381 J	0.569 J	0.777 J	0.617 J	0.33 J	0.202 U	0.391 U	0.184 U
2,3,4,7,8-PeCDF	pg/g	0.135 U	0.156 U	1.29 J	1.15 J	2 J	4.04	2.02 J	0.825 J	0.465 J	0.54 J	0.691 U
1,2,3,4,7,8-HxCDF	pg/g	0.181 U	0.207 U	3.2 J	4.63 J	7.23	20.2	17.2	2.91 J	2 J	0.775 J	1.73
1,2,3,6,7,8-HxCDF	pg/g	0.186 U	0.202 U	2.1 J	1.55 J	2.53 J	6.08	5.74	1.29 J	0.792 J	0.54 J	0.704 J
1,2,3,7,8,9-HxCDF	pg/g	0.204 U	0.218 U	3.61 J	2.48 J	3.77 J	1.38	7.35	2.09 J	1.11 J	0.166 U	0.327 U
2,3,4,6,7,8-HxCDF	pg/g	0.187 U	0.203 U	0.5 J	0.334 J	0.474 J	10.5	1.55 J	0.247 J	0.277 U	0.804 J	1.35 U
1,2,3,4,6,7,8-HpCDF	pg/g	0.635 J	0.22 U	41	61.2	101	273	173	43	26.6	10.5	28.9
1,2,3,4,7,8,9-HpCDF	pg/g	0.218 U	0.255 U	2.03 J	2.64 J	4.11 J	13.5	8.16	2.06 J	1.37 J	0.654 U	1.39
Total OCDF	pg/g	1.71 J	0.527 U	111	217	364	759	405	137	94.3	25	72.2
Summed Dioxin/Furan TEQ <sup>2,3,5</sup>	pg/g	0.0456 J	0.0148 J	8.76 J	10.8 J	22.7 J	40.1 J	40.4 J	7.57 J	4.58 J	2.57 J	3.33 J
Summed Dioxin/Furan TEQ with One-half of the Detection Limit <sup>2,4,5</sup>	pg/g	0.307 J	0.310 J	8.76 J	10.8 J	22.7 J	40.1 J	40.4 J	7.57 J	4.70 J	2.74 J	3.79 J

Notes:

- 1 Table includes data collected at the Lora Lake Parcel during the 2011 Remedial Investigation.
- 2 World Health Organization 2005 Toxic Equivalency Factors used for calculation of dioxin/furan TEQ (van den Berg et al. 2006).
- 3 TEQ calculated using detected dioxin/furan concentrations.
- 4 TEQ calculated using detected dioxin/furan concentrations plus one-half the detection limit for dioxins/furans that were not detected.
- 5 TEQ values are rounded to three significant figures.

Abbreviations:

- ft bgs Feet below ground surface
- pg/g Picograms per gram
- TEQ Toxic Equivalency Quotient
- HpCDD Heptachloro dibenzo-p-dioxin
- HpCDF Heptachloro dibenzofuran
- HxCDD Hexachloro dibenzo-p-dioxin
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- OCDD Octachloro dibenzo-p-dioxin
- OCDF Octachloro dibenzofuran
- PeCDD Pentachloro dibenzo-p-dioxin
- PeCDF Pentachloro dibenzofuran
- TCDD Tetrachloro dibenzo-p-dioxin
- TCDF Tetrachloro dibenzofuran

Qualifiers:

- J Analyte is detected, value is considered estimated.
- U Analyte is not detected at given reporting limit.
- UJ Undetected but value given is an estimated reporting limit.

**Table 1**  
**Analytical Results<sup>1</sup>**

Location		LL-SB8		LL-SB9		LL-SB10		LL-SB11	
Sample ID		LL-SB8-0-0.5-022613	LL-SB8-1.5-2-022613	LL-SB9-0-0.5-022613	LL-SB9-1.5-2-022613	LL-SB10-0-0.5-022613	LL-SB10-1.5-2-022613	LL-SB11-0-0.5-022613	LL-SB11-1.5-2-022613
Sample Date		02/26/2013	02/26/2013	02/26/2013	02/26/2013	02/26/2013	02/26/2013	02/26/2013	02/26/2013
Sample Depth (ft bgs)		0-0.5	1.5-2	0-0.5	1.5-2	0-0.5	1.5-2	0-0.5	1.5-2
Analyte	Units								
2,3,7,8-TCDD	pg/g	0.565 U	0.505 U	0.249 U	0.314 U	0.177 U	0.0746 U	0.516 U	0.102 U
1,2,3,7,8-PeCDD	pg/g	0.806 U	0.825 J	1.25	1.27 U	0.413 U	0.107 U	0.483 U	0.124 U
1,2,3,4,7,8-HxCDD	pg/g	0.932 U	0.839 J	6.44	3.00	0.0337 U	0.124 U	0.675 J	0.116 U
1,2,3,6,7,8-HxCDD	pg/g	3.3	4.07	6.23	8.13	1.27 U	0.122 U	2.02	0.122 U
1,2,3,7,8,9-HxCDD	pg/g	1.93 U	2.37	3.80	4.92	1.11 U	0.130 U	1.35	0.126 U
1,2,3,4,6,7,8-HpCDD	pg/g	88	67.6	175	188	34.2	2.59	48.5	1.68
Total OCDD	pg/g	834	594	1,240	1,820	291	25.9	383	18.8
2,3,7,8-TCDF	pg/g	0.551 U	0.565 U	0.302 U	0.142 U	0.385 U	0.0804 U	0.745 J	0.0708 U
1,2,3,7,8-PeCDF	pg/g	0.48 U	0.347 U	0.189 U	0.237 U	0.333 J	0.0766 U	0.393 U	0.120 U
2,3,4,7,8-PeCDF	pg/g	0.522 U	0.478 J	0.465 J	0.802 U	0.363 J	0.0746 U	0.453 J	0.120 U
1,2,3,4,7,8-HxCDF	pg/g	1.06	1.05 U	2.20	3.35	0.512 U	0.0632 U	0.715 J	0.0944 U
1,2,3,6,7,8-HxCDF	pg/g	0.854 U	0.687 U	0.905 J	1.36	0.313 U	0.0689 U	0.522 U	0.0944 U
1,2,3,7,8,9-HxCDF	pg/g	0.39 U	0.172 U	0.197 U	0.429 U	0.179 U	0.0842 U	0.238 U	0.120 U
2,3,4,6,7,8-HxCDF	pg/g	1.18 U	1.02	1.41	2.17	0.458 J	0.0785 U	0.898 J	0.104 U
1,2,3,4,6,7,8-HpCDF	pg/g	13.6	14.9	28.5	41.0	6.06	0.344 U	8.79	0.199 U
1,2,3,4,7,8,9-HpCDF	pg/g	0.979	0.841 J	1.56 U	2.24 U	0.399 J	0.117 U	0.703 J	0.144 U
Total OCDF	pg/g	33.7	37.8	67.2	103	14.8	1.21 U	20.1	0.334 U
Summed Dioxin/Furan TEQ <sup>2,3,5</sup>	pg/g	1.72	2.82 J	5.92 J	5.16	0.663 J	0.0337	1.48 J	0.0224
Summed Dioxin/Furan TEQ with One-half of the Detection Limit <sup>2,4,5</sup>	pg/g	2.78	3.20 J	6.08 J	6.12	1.15 J	0.177	2.02 J	0.199

Notes:

- 1 Table includes data collected at the Lora Lake Parcel during the 2011 Remedial Investigation.
- 2 World Health Organization 2005 Toxic Equivalency Factors used for calculation of dioxin/furan TEQ (van den Berg et al. 2006).
- 3 TEQ calculated using detected dioxin/furan concentrations.
- 4 TEQ calculated using detected dioxin/furan concentrations plus one-half the detection limit for dioxins/furans that were not detected.
- 5 TEQ values are rounded to three significant figures.

Abbreviations:

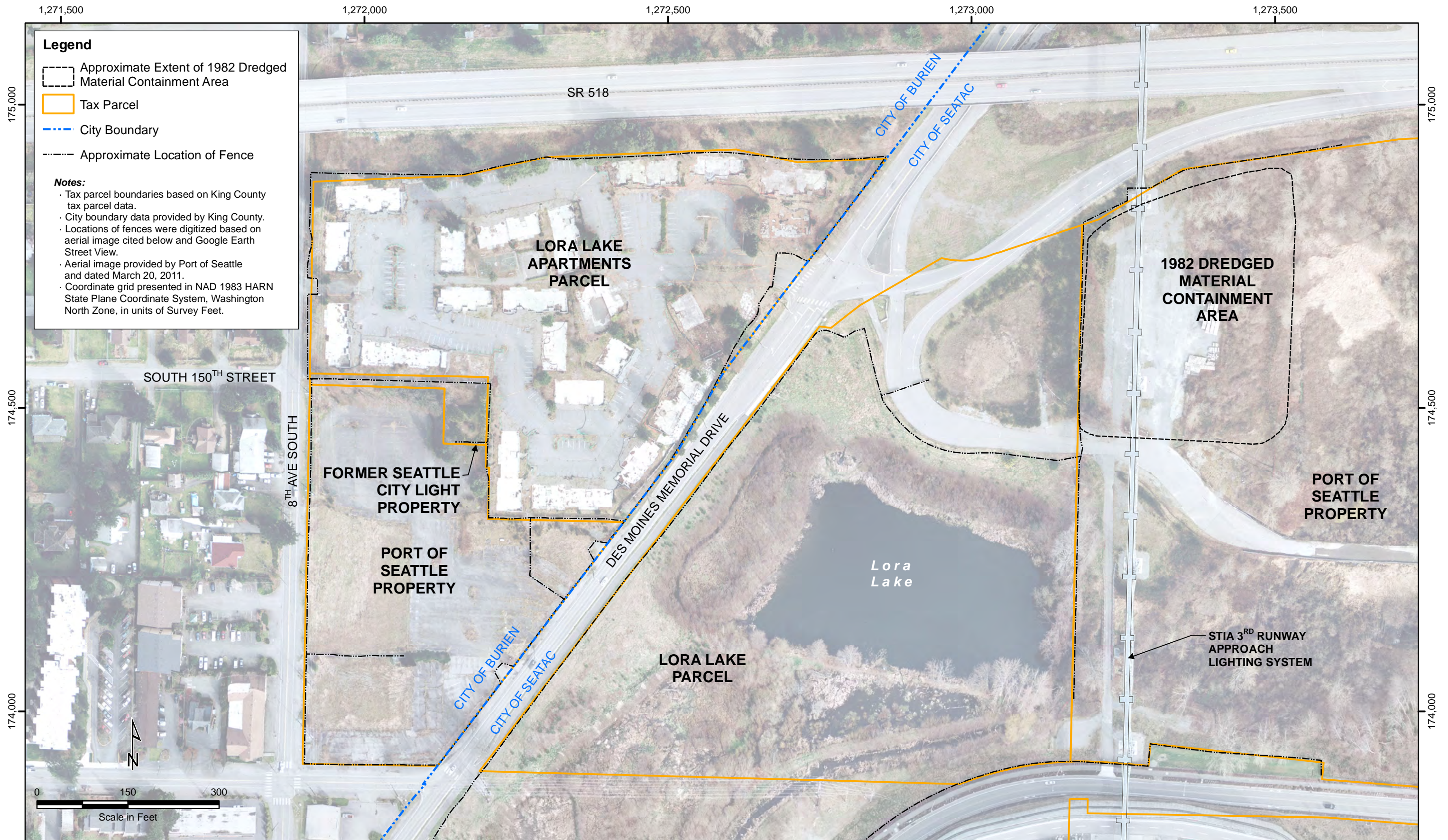
- ft bgs Feet below ground surface
- pg/g Picograms per gram
- TEQ Toxic Equivalency Quotient
- HpCDD Heptachloro dibenzo-p-dioxin
- HpCDF Heptachloro dibenzofuran
- HxCDD Hexachloro dibenzo-p-dioxin
- HxCDF Hexachloro dibenzofuran
- OCDD Octachloro dibenzo-p-dioxin
- OCDF Octachloro dibenzofuran
- PeCDD Pentachloro dibenzo-p-dioxin
- PeCDF Pentachloro dibenzofuran
- TCDD Tetrachloro dibenzo-p-dioxin
- TCDF Tetrachloro dibenzofuran

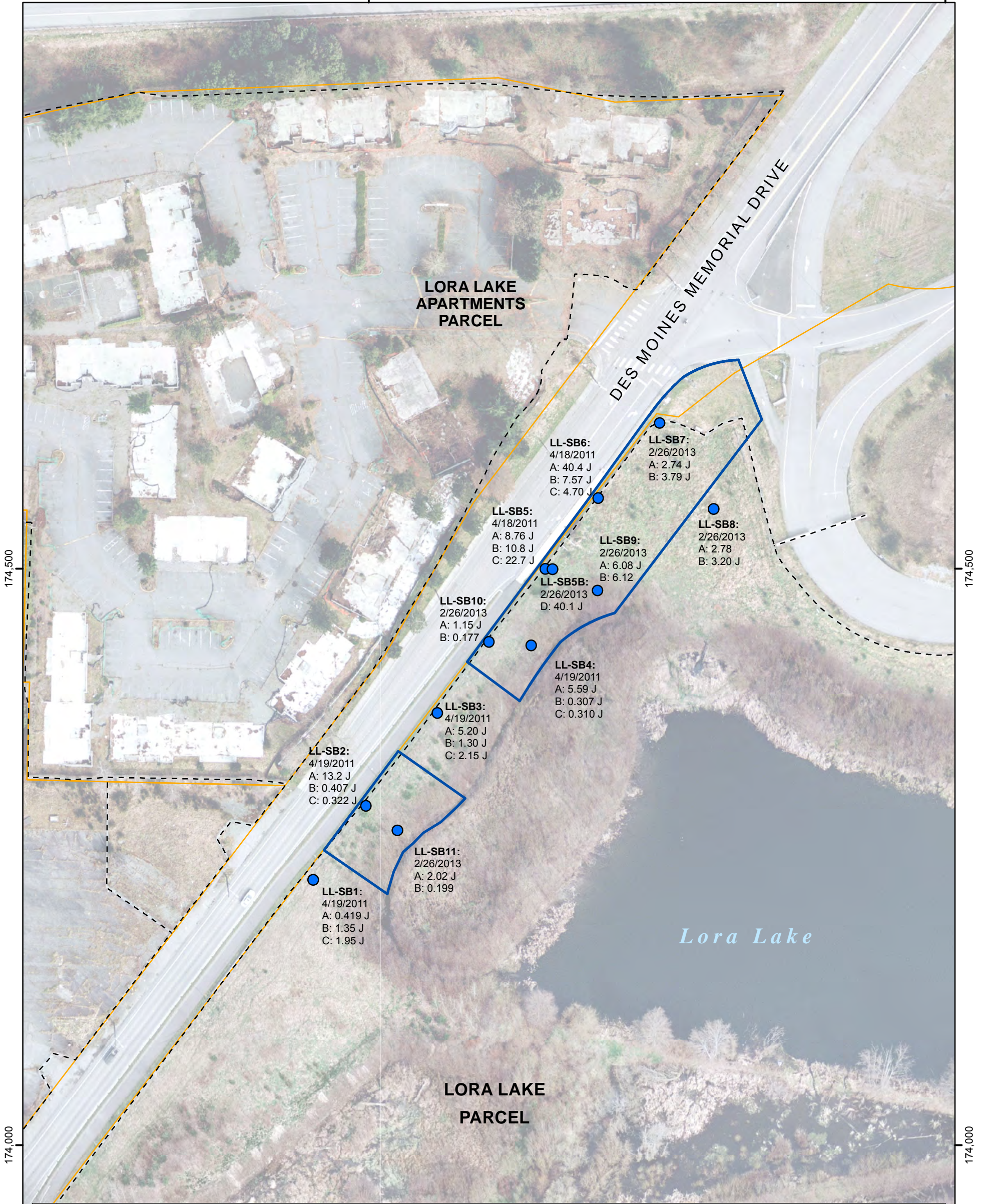
Qualifiers:

- J Analyte is detected, value is considered estimated.
- U Analyte is not detected at given reporting limit.
- UJ Undetected but value given is an estimated reporting limit.



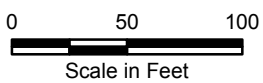
## Figures





**Legend**

- Soil Boring Location
- LL Parcel Shallow Soil Cleanup Area
- Tax Parcel
- Approximate Location of Fences



**Notes:**

- Cleanup area shown as described in the Public Review Draft Lora Lake Apartments Site RI/FS (Floyd|Snider 2013).
- Dioxin/furan Toxic Equivalency Quotients (TEQs) calculated with non-detect values set to one-half the detection limit, as described in the RI/FS (Floyd|Snider 2013).
- Tax parcel boundaries based on King County tax parcel data.
- Locations of fences were digitized based on aerial image cited below and Google Earth Street View.
- Aerial image provided by Port of Seattle and dated March 20, 2011.
- Coordinate grid presented in NAD 1983 HARN State Plane Coordinate System, Washington North Zone, in units of survey feet.

**Abbreviations:**

- bgs = below ground surface
- ft = feet
- J = estimated value
- pg/g = picograms per gram
- RI/FS = Remedial Investigation/Feasibility Study

**Label Key**

- LL-SB1:** = Soil boring location name
- 4/19/2011 = Date sampled
- A: 0.419 J = 0 – 0.5 foot sample interval Dioxin/Furan TEQ concentration
- B: 1.35 J = 1.5 – 2 foot sample interval Dioxin/Furan TEQ concentration
- C: 1.95 J = 2 – 4 foot sample interval Dioxin/Furan TEQ concentration
- D: 40.1 = 4 – 5 foot sample interval Dioxin/Furan TEQ concentration

**Attachment 1  
Boring Logs**

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 5'  
**Groundwater ATD (ft bgs):** NA

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines Memorial Dr., Burien

**Remarks:** Boring co-located Lora Lake Apts Remedial Investigation boring LL-SB5.

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB5B-4-5-022613				<p>Advanced boring to 4 ft bgs at Remedial Investigation LL-SB5 location. Lithology consistent with previous boring.</p>
			SP-SM	<p>Moist, dark brown, medium dense poorly-graded SAND with SILT and few fine (~1/4" dia) gravel. Color grades to medium brown at 4.5 ft. No sheen, no odor.</p> <p>Bottom of boring = 5 ft bgs.</p>

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil

**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 4'  
**Groundwater ATD (ft bgs):** NA

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines  
 Memorial Dr., Burien

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Remarks:**

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB7-0-0.5-022613			OL-OH	Moist, black-brown ORGANIC SOIL with some poorly-graded fine sand and few fine (~1/4" dia) gravel. Rootlets present. No sheen, no odor.
			SP-SM	Grades to moist, dark brown poorly-graded fine SAND with SILT and few organic matter and gravel. No sheen, no odor.
LL-SB7-1.5-2-022613				Color becomes medium brown and organic content of soil decreases. Occasional coarser (~2" dia) gravel.
				Color becomes light gray-brown and silt content decreases.
LL-SB7-2-4-022613			SP	Grades to moist, light gray-brown poorly graded fine SAND with trace silt. Orange and black mottles present and gravel content decreases. No sheen, no odor.
				Color becomes black-brown.
			SP-SM	Moist, black-brown, low-plasticity SILTY fine SAND with little fine gravel (~1/4" dia). Some light brown mottling at 3.75 ft. No sheen, no odor.
				Bottom of boring = 4 ft bgs.

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil

**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 4'  
**Groundwater ATD (ft bgs):** NA

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines  
 Memorial Dr., Burien

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Remarks:**

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB8-0-0.5-022613			SP-SM	Moist, dark brown fine SAND with SILT and little fine rounded gravel (1/4"-1/2" dia) and organic matter. Rootlets and wood fragments present. No sheen, no odor.
LL-SB8-1.5-2-022613				Color becomes medium brown and gravel coarsens (up to 1" dia). Organic matter content decreases, rootlets disappear. No sheen, no odor.
LL-SB8-2-4-022613				Color becomes dark gray-brown.  Color becomes medium brown with black pockets. Debris (plastic fragment) present. No sheen, no odor.  Bottom of boring = 4 ft bgs.

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil

**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 4'  
**Groundwater ATD (ft bgs):** NA

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines  
 Memorial Dr., Burien

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Remarks:**

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB9-0-0.5-022613			OL-OH	Moist, black-brown loose ORGANIC SOIL with poorly-graded fine sand, some fine (~1/4" dia) gravel and trace silt. Occasional coarser (~1 1/2" dia) gravel. Rootlets present. No sheen, no odor.
			SP	Moist, medium brown poorly-graded fine SAND with trace silt. No sheen, no odor.
LL-SB9-1.5-2-022613			SP-SM	Grades to moist, brown poorly-graded fine SAND with SILT and some fine gravel (up to 1/2" dia). No sheen, no odor.
			SP	Grades to moist, light gray-brown poorly graded fine SAND with little pockets of silty sand. No sheen, no odor.
LL-SB9-2-4-022613				Color becomes gray with orange mottling.
				Bottom of boring = 4 ft bgs.

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil



**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 4'  
**Groundwater ATD (ft bgs):** NA

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines  
 Memorial Dr., Burien

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Remarks:**

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB10-0-0.5-022613			SP-SM	Moist, dark brown, loose poorly-graded fine SAND with SILT, some organic soil and few gravel (1/4-1 1/2" dia). Rootlets present. No sheen, no odor.
				Color grades to light brown and organic soil and rootlets disappear.
LL-SB10-1.5-2-022613			SP	Moist, light brown poorly-graded fine SAND with trace silt. No sheen, no odor.
				Silt and gravel disappear.
LL-SB10-2-4-022613				Bottom of boring = 4 ft bgs.

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil

**Drill Date:** February 26, 2013  
**Logged By:** Kristin Anderson  
**Drilled By:** Floyd|Snider  
**Drill Type:** Hand Auger  
**Sample Method:** 3" dia hand auger  
**Boring Diameter:** 3 inches  
**Boring Depth (ft bgs):** 4'  
**Groundwater ATD (ft bgs):** 3.75'

**Client:** Port of Seattle  
**Project:** POS-LLA  
**Task:** 8110  
**Address:** 15001 Des Moines  
 Memorial Dr., Burien

**Coordinate System:** NAD83  
**Ground Surface Elevation:**  
**Latitude/Northing:**  
**Longitude/Easting:**  
**Boring Location:** LL Parcel along D.M.D.

**Remarks:**

SAMPLE COLLECTION INFORMATION	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS
-------------------------------	--------------------	--------------	-------------	-----------------------------------

LL-SB11-0-0.5-022613			OL-OH	Moist, dark black-brown loose ORGANIC SOIL with ~30% poorly-graded fine sand and little gravel (1/4-1/2" dia). No sheen, no odor.
LL-SB11-1.5-2-022613			SP	Moist, brown, medium dense, poorly-graded fine SAND with few fine gravel and trace silt. No sheen, no odor.  Roots present.  Gravel and silt disappear.
LL-SB11-2-4-022613				Becomes wet. Bottom of boring = 4 ft bgs.

**Notes:**

FT BGS = Feet Below Ground Surface  
 NS = No Sheen

USCS = Unified Soil Classification System, modified from ASTM D2488 Page 1 of 1  
 ▼ = denotes start of water saturated soil

**Attachment 2**  
**Analytical Data Report**

Table of Contents: ARI Job WF26

Client: Floyd Snider

Project: POS-LLA LL Parcel/ Apts RIFS

	Page From:	Page To:
Inventory Sheet		
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Case Narrative, Data Qualifiers, Control Limits	<u>6</u>	<u>12</u>
<b>Dioxin Analysis</b>		
Report and Summary QC Forms	<u>13</u>	<u>52</u>
<b>Total Solids</b>		
Report and Summary QC Forms	<u>53</u>	<u>54</u>
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Signature FS

March-08-2013  
Date



**Analytical Resources, Incorporated**  
Analytical Chemists and Consultants

March 12, 2013

Megan McCullough  
Floyd-Snider Inc.  
601 Union Street, Suite 600  
Seattle, WA 98101-2341

**RE: Lora Lake Parcel, POS-LLA LL Parcel/ Apts RIFS**  
**ARI Jobs: WF26**

Dear Megan:

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

Sample receipt and detail 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 "Kelly Bottem".

Kelly Bottem  
Client Services Manager  
kellyb@arilabs.com  
206-695-6211

Enclosures

cc: eFile WF26

•

## Chain of Custody Documentation

ARI Job ID: WF26

# Chain of Custody Record & Laboratory Analysis Request

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



ARI Assigned Number: WFE86  
 ARI Client Company: Floyd Snider  
 Client Contact: Megan McCullough  
 Client Project Name: LL Parcel / Apts RIFES  
 Client Project #: POS - LLA

Turn-around Requested: std  
 Phone: 206-292-2078  
 Date: 2/26/2013  
 No. of Coolers: 1  
 Cooler Temps: 2.3

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested			Notes/Comments
					Diagrams/Forms	# D/T	Ice Present?	
LL-SB8-0-0.5-022613	2/26/13	0845	S	1	X			
LL-SB8-1.5-2-022613		0910		1	X			
LL-SB8-2-4-022613		0925		1	X			
LL-SB7-0-0.5-022613		0950		1	X			
LL-SB7-1.5-2-022613		0955		1	X			
LL-SB7-2-4-022613		1015		1	X			
LL-SB9-0-0.5-022613		1045		1	X			
LL-SB9-1.5-2-022613		1055		1	X			
LL-SB9-2-4-022613		1115		1	X			
LL-SB5-4-5-022613		1200	↓	1	X			
Comments/Special Instructions	Relinquished by: <u>(Signature) [Signature]</u> Printed Name: <u>Amenda McKay</u> Company: <u>ARI</u> Date & Time: <u>2/26/13 14:10</u>				Received by: <u>(Signature) [Signature]</u> Printed Name: <u>A. Volgardsen</u> Company: <u>ARI</u> Date & Time: <u>2/26/13 1410</u>			

**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.

### Chain of Custody Record & Laboratory Analysis Request

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



ARI Assigned Number:	Turn-around Requested:	Page: <u>2</u> of <u>2</u>
ARI Client Company: <u>Floyd Snider</u>	Phone: <u>206-292-2078</u>	Ice Present? <input type="checkbox"/>
Client Contact: <u>Megan McCollough</u>	Sampler: <u>K. Anderson, A. McKay</u>	Cooler Temps: _____
Client Project Name: <u>LL Parcel/Apts RJEFS</u>	Sample ID	Analysis Requested
Client Project #: <u>POS-LLA</u>	Date	Notes/Comments

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested			Notes/Comments	
					Dirxms /	Archive D/F			
LL-SB10-0-0.5-022613	2/26/13	1230	S	1	X				
LL-SB10-1.5-2-022613	↑	1235		1	X				
LL-SB10-2-4-022613		1240		1	X				
LL-SB11-0-0.5-022613	↓	1305		1	X				
LL-SB11-1.5-2-022613	↓	1315		1	X				
LL-SB11-2-4-022613		1320	↓	1	X				
-----									
Comments/Special Instructions	Relinquished By (Signature)	Relinquished by (Signature)	Received by (Signature)	Notes/Comments					
	<u>Kim M</u>	<u>Kim M</u>	<u>A. Volgarder</u>						
	Printed Name: <u>Aminda McKay</u>	Printed Name: <u>A. Volgarder</u>	Company: <u>ARI</u>						
	Printed Name: <u>Floyd Snider</u>	Company: <u>ARI</u>	Date & Time: <u>2/26/13 14:10</u>						
	Date & Time: <u>2/26/13 14:10</u>	Date & Time: <u>2/26/13 14:10</u>	Date & Time: <u>2/26/13 14:10</u>						

**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 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.





# Cooler Receipt Form

ARI Client Flouyd Smider  
COC No(s) \_\_\_\_\_ (NA)  
Assigned ARI Job No WF26

Project Name: LL Parcel/Apts RIFS  
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) 2.3  
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 91877952  
Cooler Accepted by: AV Date 2/26/13 Time: 1410

*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: AV Date: 2/26/13 Time: 1655

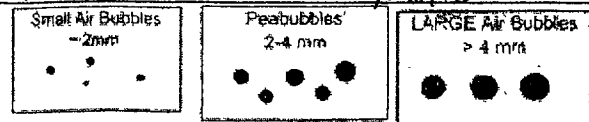
**\*\* Notify Project Manager of discrepancies or concerns \*\***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
* <u>LLSB# - #</u>	<u>LL-SB# - #</u>		

**Additional Notes, Discrepancies, & Resolutions:**

\* on all samples

By AV Date 2/26/13



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

**Case Narrative, Data Qualifiers, Control Limits**

**ARI Job ID: WF26**



## Case Narrative

**Client: Floyd Snider**

**Project: Lora Lake Parcel, POS-LLA LL Parcel/ Apts RIFS**

**ARI Job No.: WF26**

### Sample receipt

Analytical Resources, Inc. (ARI) accepted sixteen soil samples on February 26, 2013 under ARI job WF26. The cooler temperatures measured by IR thermometer following ARI SOP were 2.6°C.

Select samples were placed on hold pending further instructions.

### Dioxin/Furans by EPA 1613B

The sample and associated laboratory QC were prepared and analyzed within the method recommended holding times.

Analysis was performed using the application specific RTX-Dioxin 2 column, which has a unique elution order and selectivity for the target compounds, as well as a unique isomer separation for the 2378-TCDF. A resolution test mixture was designed specifically for this column, consisting of 2348-TCDF, 2378-TCDF and 3467-TCDF to evaluate the method required minimum valley between isomer of 25%. Use of the RTX-Dioxin2 column eliminates the need for second column confirmation.

Initial and continuing calibration results were within method requirements.

The method blank had hits below the RL. Associated sample results that have ten times over the concentrations found in the method blank have been flagged with a "B" qualifier. The OPR (Ongoing Precision and Accuracy or LCS) sample percent recoveries were within control limits.

The percent recoveries for all preparation and cleanup surrogates were within established QC limits.

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

The TEQ was calculated with WHO2005 with both ND=0 for undetects (flagged "U") and ND= ½ EDL. The TEC includes EMPC values in the calculation.

# Sample ID Cross Reference Report



ARI Job No: WF26  
Client: Floyd Snider  
Project Event: POS-LLA  
Project Name: LL Parcel/ Apts RIFS

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. LL-SB8-0-0.5-022013	WF26A	13-3793	Soil	02/26/13 08:45	02/26/13 14:10
2. LL-SB8-1.5-2-022613	WF26B	13-3794	Soil	02/26/13 09:10	02/26/13 14:10
3. LL-SB7-0-0.5-022613	WF26C	13-3795	Soil	02/26/13 09:50	02/26/13 14:10
4. LL-SB7-1.5-2-022613	WF26D	13-3796	Soil	02/26/13 09:55	02/26/13 14:10
5. LL-SB9-0-0.5-022613	WF26E	13-3797	Soil	02/26/13 10:45	02/26/13 14:10
6. LL-SB9-1.5-2-022613	WF26F	13-3798	Soil	02/26/13 10:55	02/26/13 14:10
7. LL-SB5-4-5-022613	WF26G	13-3799	Soil	02/26/13 12:00	02/26/13 14:10
8. LL-SB10-0-0.5-022613	WF26H	13-3800	Soil	02/26/13 12:30	02/26/13 14:10
9. LL-SB10-1.5-2-022613	WF26I	13-3801	Soil	02/26/13 12:35	02/26/13 14:10
10. LL-SB11-0-0.5-022613	WF26J	13-3802	Soil	02/26/13 13:05	02/26/13 14:10
11. LL-SB11-1.5-2-022613	WF26K	13-3803	Soil	02/26/13 13:15	02/26/13 14:10
12. LL-SB8-2-4-022613	WF26L	13-3804	Soil	02/26/13 09:25	02/26/13 14:10
13. LL-SB7-2-4-022613	WF26M	13-3805	Soil	02/26/13 10:15	02/26/13 14:10
14. LL-SB9-2-4-022613	WF26O	13-3806	Soil	02/26/13 11:15	02/26/13 14:10
15. LL-SB10-2-4-022613	WF26P	13-3807	Soil	02/26/13 12:40	02/26/13 14:10
16. LL-SB11-2-4-022613	WF26Q	13-3808	Soil	02/26/13 13:20	02/26/13 14:10



## 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  $\leq 5$  times the Reporting Limit and the replicate control limit defaults to  $\pm 1$  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



**DL<sup>1</sup>, LOD<sup>1</sup>, LOQ<sup>1</sup> and Control Limits Summary  
Analysis of Soil 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 <sup>1</sup> pg/g	LOD <sup>1</sup> pg/g	LOQ <sup>1</sup> pg/g	OPR Control Limit <sup>2,3</sup>	Sample Replicate RPD <sup>3,4</sup>
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	5	80 – 134	≤ 25
2,3,4,7,8-PeCDF	1.076	2.5	5	68 – 160	≤ 25
1,2,3,7,8-PeCDD	0.647	2.5	5	70 – 142	≤ 25
1,2,3,4,7,8-HxCDF	0.991	2.5	5	72 – 134	≤ 25
1,2,3,6,7,8-HxCDF	0.769	2.5	5	84 – 130	≤ 25
2,3,4,6,7,8-HxCDF	0.904	2.5	5	70 – 156	≤ 25
1,2,3,7,8,9-HxCDF	0.857	2.5	5	78 – 130	≤ 25
1,2,3,4,7,8-HxCDD	0.481	2.5	5	70 – 164	≤ 25
1,2,3,6,7,8-HxCDD	0.561	2.5	5	76 – 134	≤ 25
1,2,3,7,8,9-HxCDD	0.886	2.5	5	64 – 162	≤ 25
1,2,3,4,6,7,8-HpCDF	1.165	2.5	5	82 – 122	≤ 25
1,2,3,4,7,8,9-HpCDF	0.688	2.5	5	78 – 138	≤ 25
1,2,3,4,6,7,8-HpCDD	0.828	2.5	5	70 – 140	≤ 25
OCDF	2.176	5.0	10	63 – 170	≤ 25
OCDD	7.452	5.0	10	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<sub>O</sub> and C<sub>D</sub> are the concentrations of the original and duplicate respectively then

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



**Dioxin Analysis  
Report and Summary QC Forms**

**ARI Job ID: WF26**

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



Sample ID: LL-SB8-0-0.5-022013

Lab Sample ID: WF26A  
 LIMS ID: 13-3793  
 Matrix: Soil  
 Data Release Authorized: *mmw*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 15:59  
 Instrument/Analyst: AS1/PK  
 Acid Cleanup: Yes  
 Silica-Carbon Cleanup: No

Sample Amount: 10.3 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	1.11	0.65-0.89		0.194	0.551	EMPC
2,3,7,8-TCDD	0.60	0.65-0.89		0.194	0.565	EMPC
1,2,3,7,8-PeCDF	2.49	1.32-1.78		0.971	0.480	JEMPC
2,3,4,7,8-PeCDF	2.22	1.32-1.78		0.971	0.522	JEMPC
1,2,3,7,8-PeCDD	1.12	1.32-1.78		0.971	0.806	JEMPC
1,2,3,4,7,8-HxCDF	1.26	1.05-1.43		0.971	1.06	
1,2,3,6,7,8-HxCDF	1.52	1.05-1.43		0.971	0.854	JEMPC
2,3,4,6,7,8-HxCDF	1.43	1.05-1.43		0.971	1.18	EMPC
1,2,3,7,8,9-HxCDF	1.58	1.05-1.43		0.971	0.390	JEMPC
1,2,3,4,7,8-HxCDD	1.69	1.05-1.43		0.971	0.932	JEMPC
1,2,3,6,7,8-HxCDD	1.11	1.05-1.43		0.971	3.30	
1,2,3,7,8,9-HxCDD	1.52	1.05-1.43		0.971	1.93	EMPC
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20		0.971	13.6	
1,2,3,4,7,8,9-HpCDF	0.90	0.88-1.20		0.971	0.979	
1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20		0.971	88.0	
OCDF	0.86	0.76-1.02		1.94	33.7	
OCDD	0.87	0.76-1.02		1.94	834	

Homologue Group	EDL	RL	Result
Total TCDF		0.971	11.6 EMPC
Total TCDD		0.971	7.14 EMPC
Total PeCDF		1.94	12.6 EMPC
Total PeCDD		0.971	9.33 EMPC
Total HxCDF		1.94	22.0 EMPC
Total HxCDD		1.94	29.4 EMPC
Total HpCDF		1.94	44.1 EMPC
Total HpCDD		1.94	209

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 3.85

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.85

Reported in pg/g

Lab Sample ID: WF26A  
LIMS ID: 13-3793  
Matrix: Soil  
Data Release Authorized: *MW*  
Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
Project: LL Parcel/ Apts RIFS  
POS-LLA  
Date Sampled: 02/26/13  
Date Received: 02/26/13

Date Extracted: 02/28/13  
Date Analyzed: 03/05/13 15:59  
Instrument/Analyst: AS1/PK

Sample Amount: 10.3 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	73.5	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	79.3	25-164	
13C-1,2,3,7,8-PeCDF	1.54	1.32-1.78	78.9	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	81.4	21-178	
13C-1,2,3,7,8-PeCDD	1.62	1.32-1.78	82.6	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	78.9	26-152	
13C-1,2,3,6,7,8-HxCDF	0.55	0.43-0.59	79.3	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	91.0	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	81.3	32-141	
13C-1,2,3,6,7,8-HxCDD	1.20	1.05-1.43	86.9	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	77.1	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.46	0.37-0.51	83.1	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	88.5	23-140	
13C-OCDD	0.91	0.76-1.02	85.9	17-157	
37Cl4-2,3,7,8-TCDD			79.6	35-197	

Reported in Percent Recovery

**ORGANICS ANALYSIS DATA SHEET**

**Dioxins/Furans by EPA 1613B**

Page 1 of 1

**Sample ID: LL-SB8-1.5-2-022613**

Lab Sample ID: WF26B

LIMS ID: 13-3794

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 03/07/13

QC Report No: WF26-Floyd Snider

Project: LL Parcel/ Apts RIFS

POS-LLA

Date Sampled: 02/26/13

Date Received: 02/26/13

Date Extracted: 02/28/13

Date Analyzed: 03/05/13 16:52

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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.63	0.65-0.89		0.197	0.565 EMPC
2,3,7,8-TCDD	0.65	0.65-0.89		0.197	0.505 EMPC
1,2,3,7,8-PeCDF	1.08	1.32-1.78		0.987	0.347 JEMPC
2,3,4,7,8-PeCDF	1.63	1.32-1.78		0.987	0.478 J
1,2,3,7,8-PeCDD	1.52	1.32-1.78		0.987	0.825 J
1,2,3,4,7,8-HxCDF	0.87	1.05-1.43		0.987	1.05 EMPC
1,2,3,6,7,8-HxCDF	1.52	1.05-1.43		0.987	0.687 JEMPC
2,3,4,6,7,8-HxCDF	1.10	1.05-1.43		0.987	1.02
1,2,3,7,8,9-HxCDF		1.05-1.43	0.172	0.987	< 0.172 U
1,2,3,4,7,8-HxCDD	1.23	1.05-1.43		0.987	0.839 J
1,2,3,6,7,8-HxCDD	1.17	1.05-1.43		0.987	4.07
1,2,3,7,8,9-HxCDD	1.42	1.05-1.43		0.987	2.37
1,2,3,4,6,7,8-HpCDF	1.01	0.88-1.20		0.987	14.9
1,2,3,4,7,8,9-HpCDF	1.03	0.88-1.20		0.987	0.841 J
1,2,3,4,6,7,8-HpCDD	1.07	0.88-1.20		0.987	67.6
OCDF	0.86	0.76-1.02		1.97	37.8
OCDD	0.87	0.76-1.02		1.97	594

Homologue Group	EDL	RL	Result
Total TCDF		0.987	12.0 EMPC
Total TCDD		0.987	5.41 EMPC
Total PeCDF		1.97	15.8 EMPC
Total PeCDD		0.987	9.78 EMPC
Total HxCDF		1.97	19.1 EMPC
Total HxCDD		1.97	36.5 EMPC
Total HpCDF		1.97	44.8 EMPC
Total HpCDD		1.97	149

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 3.57

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.58

Reported in pg/g

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



Sample ID: LL-SB8-1.5-2-022613

Lab Sample ID: WF26B  
 LIMS ID: 13-3794  
 Matrix: Soil  
 Data Release Authorized: *mmw*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 16:52  
 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	0.77	0.65-0.89	75.7	24-169	
13C-2,3,7,8-TCDD	0.76	0.65-0.89	80.5	25-164	
13C-1,2,3,7,8-PeCDF	1.62	1.32-1.78	76.7	24-185	
13C-2,3,4,7,8-PeCDF	1.57	1.32-1.78	77.6	21-178	
13C-1,2,3,7,8-PeCDD	1.60	1.32-1.78	79.3	25-181	
13C-1,2,3,4,7,8-HxCDF	0.53	0.43-0.59	81.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	81.3	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	0.53	0.43-0.59	93.8	29-147	
13C-1,2,3,4,7,8-HxCDD	1.25	1.05-1.43	83.8	32-141	
13C-1,2,3,6,7,8-HxCDD	1.30	1.05-1.43	86.6	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	77.8	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	87.0	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	89.4	23-140	
13C-OCDD	0.89	0.76-1.02	87.8	17-157	
37C14-2,3,7,8-TCDD			80.9	35-197	

Reported in Percent Recovery

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

**Sample ID: LL-SB7-0-0.5-022613**

Lab Sample ID: WF26C  
 LIMS ID: 13-3795  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 17:45  
 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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.70	0.65-0.89		0.198	0.674
2,3,7,8-TCDD	0.40	0.65-0.89		0.198	0.314 EMPC
1,2,3,7,8-PeCDF	1.25	1.32-1.78		0.988	0.391 JEMPC
2,3,4,7,8-PeCDF	1.61	1.32-1.78		0.988	0.540 J
1,2,3,7,8-PeCDD	1.64	1.32-1.78		0.988	0.771 J
1,2,3,4,7,8-HxCDF	1.27	1.05-1.43		0.988	0.775 J
1,2,3,6,7,8-HxCDF	1.07	1.05-1.43		0.988	0.540 J
2,3,4,6,7,8-HxCDF	1.12	1.05-1.43		0.988	0.804 J
1,2,3,7,8,9-HxCDF	0.60	1.05-1.43		0.988	0.166 JEMPC
1,2,3,4,7,8-HxCDD	1.20	1.05-1.43		0.988	0.919 J
1,2,3,6,7,8-HxCDD	1.29	1.05-1.43		0.988	2.59
1,2,3,7,8,9-HxCDD	1.17	1.05-1.43		0.988	1.58
1,2,3,4,6,7,8-HpCDF	1.02	0.88-1.20		0.988	10.5
1,2,3,4,7,8,9-HpCDF	0.81	0.88-1.20		0.988	0.654 JEMPC
1,2,3,4,6,7,8-HpCDD	1.02	0.88-1.20		0.988	57.6
OCDF	0.83	0.76-1.02		1.98	25.0
OCDD	0.91	0.76-1.02		1.98	524

Homologue Group	EDL	RL	Result
Total TCDF		0.988	12.7 EMPC
Total TCDD		0.988	5.65 EMPC
Total PeCDF		1.98	13.4 EMPC
Total PeCDD		0.988	8.39 EMPC
Total HxCDF		1.98	16.5 EMPC
Total HxCDD		1.98	23.9 EMPC
Total HpCDF		1.98	30.9 EMPC
Total HpCDD		1.98	135

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 2.92

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.92

Reported in pg/g

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



Sample ID: LL-SB7-0-0.5-022613

Lab Sample ID: WF26C  
 LIMS ID: 13-3795  
 Matrix: Soil  
 Data Release Authorized: *mmw*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 17:45  
 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	0.77	0.65-0.89	76.5	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	81.0	25-164	
13C-1,2,3,7,8-PeCDF	1.53	1.32-1.78	75.8	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	77.7	21-178	
13C-1,2,3,7,8-PeCDD	1.55	1.32-1.78	81.9	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	79.9	26-152	
13C-1,2,3,6,7,8-HxCDF	0.54	0.43-0.59	79.6	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	77.1	28-136	
13C-1,2,3,7,8,9-HxCDF	0.54	0.43-0.59	92.1	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	81.7	32-141	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	86.1	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.46	0.37-0.51	78.7	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	83.8	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	90.8	23-140	
13C-OCDD	0.87	0.76-1.02	84.7	17-157	
37C14-2,3,7,8-TCDD			82.0	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET  
 Dioxins/Furans by EPA 1613B  
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Sample ID: LL-SB7-1.5-2-022613

Lab Sample ID: WF26D  
 LIMS ID: 13-3796  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 18:37  
 Instrument/Analyst: AS1/PK  
 Acid Cleanup: Yes  
 Silica-Carbon Cleanup: No

Sample Amount: 10.3 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	0.64	0.65-0.89		0.193	0.412	EMPC
2,3,7,8-TCDD	0.41	0.65-0.89		0.193	0.219	EMPC
1,2,3,7,8-PeCDF		1.32-1.78	0.184	0.967	< 0.184	U
2,3,4,7,8-PeCDF	1.21	1.32-1.78		0.967	0.691	JXEMPC
1,2,3,7,8-PeCDD	1.33	1.32-1.78		0.967	0.859	J
1,2,3,4,7,8-HxCDF	1.09	1.05-1.43		0.967	1.73	
1,2,3,6,7,8-HxCDF	1.16	1.05-1.43		0.967	0.704	J
2,3,4,6,7,8-HxCDF	0.92	1.05-1.43		0.967	1.35	EMPC
1,2,3,7,8,9-HxCDF	2.11	1.05-1.43		0.967	0.327	JEMPC
1,2,3,4,7,8-HxCDD	1.09	1.05-1.43		0.967	1.31	
1,2,3,6,7,8-HxCDD	1.39	1.05-1.43		0.967	4.30	
1,2,3,7,8,9-HxCDD	1.01	1.05-1.43		0.967	2.82	EMPC
1,2,3,4,6,7,8-HpCDF	1.00	0.88-1.20		0.967	28.9	
1,2,3,4,7,8,9-HpCDF	0.98	0.88-1.20		0.967	1.39	
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20		0.967	106	
OCDF	0.86	0.76-1.02		1.93	72.2	
OCDD	0.87	0.76-1.02		1.93	945	

Homologue Group	EDL	RL	Result
Total TCDF		0.967	9.84 EMPC
Total TCDD		0.967	4.71 EMPC
Total PeCDF		1.93	14.9 EMPC
Total PeCDD		0.967	14.6 EMPC
Total HxCDF		1.93	30.8 EMPC
Total HxCDD		1.93	38.0 EMPC
Total HpCDF		1.93	85.5 EMPC
Total HpCDD		1.93	213

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.25

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.25

Reported in pg/g



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Sample ID: LL-SB7-1.5-2-022613

Lab Sample ID: WF26D  
 LIMS ID: 13-3796  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 18:37  
 Instrument/Analyst: AS1/PK

Sample Amount: 10.3 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	73.9	24-169	
13C-2,3,7,8-TCDD	0.77	0.65-0.89	80.0	25-164	
13C-1,2,3,7,8-PeCDF	1.59	1.32-1.78	75.7	24-185	
13C-2,3,4,7,8-PeCDF	1.55	1.32-1.78	76.2	21-178	
13C-1,2,3,7,8-PeCDD	1.53	1.32-1.78	78.8	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	80.2	26-152	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	80.4	26-123	
13C-2,3,4,6,7,8-HxCDF	0.55	0.43-0.59	76.3	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	86.3	29-147	
13C-1,2,3,4,7,8-HxCDD	1.32	1.05-1.43	81.7	32-141	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	86.8	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	76.5	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	82.7	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.01	0.88-1.20	87.1	23-140	
13C-OCDD	0.90	0.76-1.02	86.3	17-157	
37C14-2,3,7,8-TCDD			79.6	35-197	

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Sample ID: LL-SB9-0-0.5-022613

Lab Sample ID: WF26E  
 LIMS ID: 13-3797  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 19:30  
 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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.40	0.65-0.89		0.197	0.302	EMPC
2,3,7,8-TCDD	0.48	0.65-0.89		0.197	0.249	EMPC
1,2,3,7,8-PeCDF	1.21	1.32-1.78		0.986	0.189	JEMPC
2,3,4,7,8-PeCDF	1.75	1.32-1.78		0.986	0.465	J
1,2,3,7,8-PeCDD	1.39	1.32-1.78		0.986	1.25	
1,2,3,4,7,8-HxCDF	1.12	1.05-1.43		0.986	2.20	
1,2,3,6,7,8-HxCDF	1.34	1.05-1.43		0.986	0.905	J
2,3,4,6,7,8-HxCDF	1.17	1.05-1.43		0.986	1.41	
1,2,3,7,8,9-HxCDF		1.05-1.43	0.197	0.986	< 0.197	U
1,2,3,4,7,8-HxCDD	1.22	1.05-1.43		0.986	6.44	
1,2,3,6,7,8-HxCDD	1.22	1.05-1.43		0.986	6.23	
1,2,3,7,8,9-HxCDD	1.22	1.05-1.43		0.986	3.80	
1,2,3,4,6,7,8-HpCDF	0.97	0.88-1.20		0.986	28.5	
1,2,3,4,7,8,9-HpCDF	1.28	0.88-1.20		0.986	1.56	EMPC
1,2,3,4,6,7,8-HpCDD	1.02	0.88-1.20		0.986	175	
OCDF	0.90	0.76-1.02		1.97	67.2	
OCDD	0.91	0.76-1.02		1.97	1,240	

Homologue Group	EDL	RL	Result
Total TCDF		0.986	5.28 EMPC
Total TCDD		0.986	3.98 EMPC
Total PeCDF		1.97	14.5 EMPC
Total PeCDD		0.986	13.6 EMPC
Total HxCDF		1.97	31.5 EMPC
Total HxCDD		1.97	59.0 EMPC
Total HpCDF		1.97	83.1 EMPC
Total HpCDD		1.97	321

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 6.22

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 6.23

Reported in pg/g

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**Dioxins/Furans by EPA 1613B**  
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Sample ID: LL-SB9-0-0.5-022613

Lab Sample ID: WF26E  
 LIMS ID: 13-3797  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 19:30  
 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	0.77	0.65-0.89	76.1	24-169	
13C-2,3,7,8-TCDD	0.76	0.65-0.89	82.2	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	81.6	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	77.5	21-178	
13C-1,2,3,7,8-PeCDD	1.62	1.32-1.78	82.5	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	81.5	26-152	
13C-1,2,3,6,7,8-HxCDF	0.50	0.43-0.59	85.9	26-123	
13C-2,3,4,6,7,8-HxCDF	0.53	0.43-0.59	78.5	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	88.0	29-147	
13C-1,2,3,4,7,8-HxCDD	1.28	1.05-1.43	84.9	32-141	
13C-1,2,3,6,7,8-HxCDD	1.20	1.05-1.43	89.1	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.46	0.37-0.51	78.9	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	86.8	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	92.0	23-140	
13C-OCDD	0.90	0.76-1.02	88.6	17-157	
37C14-2,3,7,8-TCDD			83.8	35-197	

Reported in Percent Recovery

ORGANICS ANALYSIS DATA SHEET  
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Sample ID: LL-SB9-1.5-2-022613

Lab Sample ID: WF26F  
 LIMS ID: 13-3798  
 Matrix: Soil  
 Data Release Authorized: *mm*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 21:24  
 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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF		0.65-0.89	0.142	0.198	< 0.142	U
2,3,7,8-TCDD	0.41	0.65-0.89		0.198	0.314	EMPC
1,2,3,7,8-PeCDF		1.32-1.78	0.237	0.988	< 0.237	U
2,3,4,7,8-PeCDF	1.25	1.32-1.78		0.988	0.802	JEMPC
1,2,3,7,8-PeCDD	1.14	1.32-1.78		0.988	1.27	EMPC
1,2,3,4,7,8-HxCDF	1.26	1.05-1.43		0.988	3.35	
1,2,3,6,7,8-HxCDF	1.30	1.05-1.43		0.988	1.36	
2,3,4,6,7,8-HxCDF	1.28	1.05-1.43		0.988	2.17	
1,2,3,7,8,9-HxCDF	1.61	1.05-1.43		0.988	0.429	JEMPC
1,2,3,4,7,8-HxCDD	1.11	1.05-1.43		0.988	3.00	
1,2,3,6,7,8-HxCDD	1.18	1.05-1.43		0.988	8.13	
1,2,3,7,8,9-HxCDD	1.18	1.05-1.43		0.988	4.92	
1,2,3,4,6,7,8-HpCDF	0.99	0.88-1.20		0.988	41.0	
1,2,3,4,7,8,9-HpCDF	0.75	0.88-1.20		0.988	2.24	EMPC
1,2,3,4,6,7,8-HpCDD	1.02	0.88-1.20		0.988	188	
OCDF	0.88	0.76-1.02		1.98	103	
OCDD	0.89	0.76-1.02		1.98	1,820	

Homologue Group	EDL	RL	Result
Total TCDF	0.142	0.988	4.72 EMPC
Total TCDD		0.988	4.14 EMPC
Total PeCDF		1.98	19.1 EMPC
Total PeCDD		0.988	15.0 EMPC
Total HxCDF		1.98	49.6 EMPC
Total HxCDD		1.98	73.8 EMPC
Total HpCDF		1.98	124 EMPC
Total HpCDD		1.98	403

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 7.05

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 7.06

Reported in pg/g

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**Dioxins/Furans by EPA 1613B**  
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**Sample ID: LL-SB9-1.5-2-022613**

Lab Sample ID: WF26F  
 LIMS ID: 13-3798  
 Matrix: Soil  
 Data Release Authorized: *MMW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 21:24  
 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	0.79	0.65-0.89	78.1	24-169	
13C-2,3,7,8-TCDD	0.79	0.65-0.89	79.1	25-164	
13C-1,2,3,7,8-PeCDF	1.60	1.32-1.78	78.3	24-185	
13C-2,3,4,7,8-PeCDF	1.58	1.32-1.78	77.0	21-178	
13C-1,2,3,7,8-PeCDD	1.60	1.32-1.78	81.6	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	82.1	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	83.8	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	77.6	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	87.9	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	85.2	32-141	
13C-1,2,3,6,7,8-HxCDD	1.15	1.05-1.43	91.2	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	77.5	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	83.2	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.07	0.88-1.20	88.5	23-140	
13C-OCDD	0.92	0.76-1.02	89.4	17-157	
37Cl4-2,3,7,8-TCDD			80.0	35-197	

Reported in Percent Recovery

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**Dioxins/Furans by EPA 1613B**  
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Sample ID: LL-SB5-4-5-022613

Lab Sample ID: WF26G  
 LIMS ID: 13-3799  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 22:20  
 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	0.73	0.65-0.89		0.195	0.654
2,3,7,8-TCDD	0.76	0.65-0.89		0.195	0.945
1,2,3,7,8-PeCDF	1.62	1.32-1.78		0.977	0.777 J
2,3,4,7,8-PeCDF	1.47	1.32-1.78		0.977	4.04
1,2,3,7,8-PeCDD	1.60	1.32-1.78		0.977	5.40
1,2,3,4,7,8-HxCDF	1.23	1.05-1.43		0.977	20.2
1,2,3,6,7,8-HxCDF	1.18	1.05-1.43		0.977	6.08
2,3,4,6,7,8-HxCDF	1.22	1.05-1.43		0.977	10.5
1,2,3,7,8,9-HxCDF	1.14	1.05-1.43		0.977	1.38
1,2,3,4,7,8-HxCDD	1.17	1.05-1.43		0.977	10.0
1,2,3,6,7,8-HxCDD	1.23	1.05-1.43		0.977	44.7
1,2,3,7,8,9-HxCDD	1.24	1.05-1.43		0.977	20.8
1,2,3,4,6,7,8-HpCDF	1.00	0.88-1.20		0.977	273
1,2,3,4,7,8,9-HpCDF	1.00	0.88-1.20		0.977	13.5
1,2,3,4,6,7,8-HpCDD	1.03	0.88-1.20		0.977	1,330
OCDF	0.85	0.76-1.02		1.95	759
OCDD	0.89	0.76-1.02		1.95	15,600 E

Homologue Group	EDL	RL	Result
Total TCDF		0.977	23.9 EMPC
Total TCDD		0.977	13.6 EMPC
Total PeCDF		1.95	88.0 EMPC
Total PeCDD		0.977	95.4 EMPC
Total HxCDF		1.95	278 EMPC
Total HxCDD		1.95	366 EMPC
Total HpCDF		1.95	938 EMPC
Total HpCDD		1.95	2,880

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 40.1

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 40.1

Reported in pg/g

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**Dioxins/Furans by EPA 1613B**  
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**Sample ID: LL-SB5-4-5-022613**

Lab Sample ID: WF26G  
 LIMS ID: 13-3799  
 Matrix: Soil  
 Data Release Authorized: *MMW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 22:20  
 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	0.79	0.65-0.89	73.5	24-169	
13C-2,3,7,8-TCDD	0.75	0.65-0.89	79.6	25-164	
13C-1,2,3,7,8-PeCDF	1.54	1.32-1.78	75.9	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	75.1	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	78.2	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	81.0	26-152	
13C-1,2,3,6,7,8-HxCDF	0.50	0.43-0.59	83.1	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	76.9	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	83.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	83.6	32-141	
13C-1,2,3,6,7,8-HxCDD	1.27	1.05-1.43	90.9	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.46	0.37-0.51	76.0	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	79.7	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.06	0.88-1.20	89.0	23-140	
13C-OCDD	0.88	0.76-1.02	101	17-157	
37C14-2,3,7,8-TCDD			83.5	35-197	

Reported in Percent Recovery

**ORGANICS ANALYSIS DATA SHEET**  
**Dioxins/Furans by EPA 1613B**  
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**Sample ID: LL-SB10-0-0.5-022613**

Lab Sample ID: WF26H  
 LIMS ID: 13-3800  
 Matrix: Soil  
 Data Release Authorized: *mm*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 23:13  
 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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result	
2,3,7,8-TCDF	0.56	0.65-0.89		0.198	0.385	EMPC
2,3,7,8-TCDD	0.64	0.65-0.89		0.198	0.177	JEMPC
1,2,3,7,8-PeCDF	1.51	1.32-1.78		0.992	0.333	JX
2,3,4,7,8-PeCDF	1.47	1.32-1.78		0.992	0.363	J
1,2,3,7,8-PeCDD	0.88	1.32-1.78		0.992	0.413	JEMPC
1,2,3,4,7,8-HxCDF	0.90	1.05-1.43		0.992	0.512	JEMPC
1,2,3,6,7,8-HxCDF	2.30	1.05-1.43		0.992	0.313	JEMPC
2,3,4,6,7,8-HxCDF	1.07	1.05-1.43		0.992	0.458	J
1,2,3,7,8,9-HxCDF		1.05-1.43	0.179	0.992	< 0.179	U
1,2,3,4,7,8-HxCDD		1.05-1.43	0.0337	0.992	< 0.0337	U
1,2,3,6,7,8-HxCDD	1.60	1.05-1.43		0.992	1.27	EMPC
1,2,3,7,8,9-HxCDD	1.55	1.05-1.43		0.992	1.11	EMPC
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20		0.992	6.06	
1,2,3,4,7,8,9-HpCDF	1.20	0.88-1.20		0.992	0.399	BJ
1,2,3,4,6,7,8-HpCDD	1.01	0.88-1.20		0.992	34.2	
OCDF	0.90	0.76-1.02		1.98	14.8	
OCDD	0.88	0.76-1.02		1.98	291	

Homologue Group	EDL	RL	Result
Total TCDF		0.992	9.63 EMPC
Total TCDD		0.992	3.90 EMPC
Total PeCDF		1.98	6.65 EMPC
Total PeCDD		0.992	5.48 EMPC
Total HxCDF		1.98	9.24 EMPC
Total HxCDD		1.98	13.2 EMPC
Total HpCDF		1.98	19.0
Total HpCDD		1.98	97.3

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.61

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.62

Reported in pg/g



ORGANICS ANALYSIS DATA SHEET  
 Dioxins/Furans by EPA 1613B  
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Sample ID: LL-SB10-0-0.5-022613

Lab Sample ID: WF26H  
 LIMS ID: 13-3800  
 Matrix: Soil  
 Data Release Authorized:  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/05/13 23:13  
 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	0.80	0.65-0.89	72.4	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	79.2	25-164	
13C-1,2,3,7,8-PeCDF	1.57	1.32-1.78	74.3	24-185	
13C-2,3,4,7,8-PeCDF	1.55	1.32-1.78	73.8	21-178	
13C-1,2,3,7,8-PeCDD	1.61	1.32-1.78	75.5	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	78.8	26-152	
13C-1,2,3,6,7,8-HxCDF	0.50	0.43-0.59	82.6	26-123	
13C-2,3,4,6,7,8-HxCDF	0.50	0.43-0.59	76.6	28-136	
13C-1,2,3,7,8,9-HxCDF	0.53	0.43-0.59	90.3	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	81.8	32-141	
13C-1,2,3,6,7,8-HxCDD	1.25	1.05-1.43	88.8	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	74.7	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.46	0.37-0.51	79.7	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.08	0.88-1.20	82.9	23-140	
13C-OCDD	0.91	0.76-1.02	78.5	17-157	
37C14-2,3,7,8-TCDD			81.8	35-197	

Reported in Percent Recovery

Lab Sample ID: WF26I  
 LIMS ID: 13-3801  
 Matrix: Soil  
 Data Release Authorized: *mw*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/06/13 00:06  
 Instrument/Analyst: AS1/PK  
 Acid Cleanup: Yes  
 Silica-Carbon Cleanup: No

Sample Amount: 10.4 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		0.65-0.89	0.0804	0.191	< 0.0804 U
2,3,7,8-TCDD		0.65-0.89	0.0746	0.191	< 0.0746 U
1,2,3,7,8-PeCDF		1.32-1.78	0.0766	0.957	< 0.0766 U
2,3,4,7,8-PeCDF		1.32-1.78	0.0746	0.957	< 0.0746 U
1,2,3,7,8-PeCDD		1.32-1.78	0.107	0.957	< 0.107 U
1,2,3,4,7,8-HxCDF	1.83	1.05-1.43		0.957	0.0632 JEMPC
1,2,3,6,7,8-HxCDF		1.05-1.43	0.0689	0.957	< 0.0689 U
2,3,4,6,7,8-HxCDF		1.05-1.43	0.0785	0.957	< 0.0785 U
1,2,3,7,8,9-HxCDF		1.05-1.43	0.0842	0.957	< 0.0842 U
1,2,3,4,7,8-HxCDD		1.05-1.43	0.124	0.957	< 0.124 U
1,2,3,6,7,8-HxCDD		1.05-1.43	0.122	0.957	< 0.122 U
1,2,3,7,8,9-HxCDD		1.05-1.43	0.130	0.957	< 0.130 U
1,2,3,4,6,7,8-HpCDF	0.81	0.88-1.20		0.957	0.344 BJEMPC
1,2,3,4,7,8,9-HpCDF		0.88-1.20	0.117	0.957	< 0.117 U
1,2,3,4,6,7,8,9-HpCDD	1.15	0.88-1.20		0.957	2.59
OCDF	0.64	0.76-1.02		1.91	1.21 JEMPC
OCDD	0.85	0.76-1.02		1.91	25.9

Homologue Group	EDL	RL	Result
Total TCDF	0.0804	0.957	0.0712 EMPC
Total TCDD	0.0746	0.957	1.23 EMPC
Total PeCDF	0.0766	1.91	0.160 EMPC
Total PeCDD	0.107	0.957	0.123 EMPC
Total HxCDF		1.91	0.530 EMPC
Total HxCDD	0.130	1.91	0.776
Total HpCDF		1.91	1.44 EMPC
Total HpCDD		1.91	5.95

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.04

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.18

Reported in pg/g

**ORGANICS ANALYSIS DATA SHEET**  
**Dioxins/Furans by EPA 1613B**  
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**Sample ID: LL-SB10-1.5-2-022613**

Lab Sample ID: WF26I  
 LIMS ID: 13-3801  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/06/13 00:06  
 Instrument/Analyst: AS1/PK

Sample Amount: 10.4 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	0.76	0.65-0.89	78.0	24-169	
13C-2,3,7,8-TCDD	0.78	0.65-0.89	81.0	25-164	
13C-1,2,3,7,8-PeCDF	1.55	1.32-1.78	76.0	24-185	
13C-2,3,4,7,8-PeCDF	1.55	1.32-1.78	75.1	21-178	
13C-1,2,3,7,8-PeCDD	1.56	1.32-1.78	79.8	25-181	
13C-1,2,3,4,7,8-HxCDF	0.52	0.43-0.59	78.2	26-152	
13C-1,2,3,6,7,8-HxCDF	0.53	0.43-0.59	79.3	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	73.8	28-136	
13C-1,2,3,7,8,9-HxCDF	0.51	0.43-0.59	80.5	29-147	
13C-1,2,3,4,7,8-HxCDD	1.26	1.05-1.43	83.6	32-141	
13C-1,2,3,6,7,8-HxCDD	1.27	1.05-1.43	89.2	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	70.2	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	75.5	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20	84.7	23-140	
13C-OCDD	0.88	0.76-1.02	79.7	17-157	
37C14-2,3,7,8-TCDD			82.9	35-197	

Reported in Percent Recovery

**ORGANICS ANALYSIS DATA SHEET**

Dioxins/Furans by EPA 1613B

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Sample ID: LL-SB11-0-0.5-022613

Lab Sample ID: WF26J

LIMS ID: 13-3802

Matrix: Soil

Data Release Authorized: *MW*

Reported: 03/07/13

QC Report No: WF26-Floyd Snider

Project: LL Parcel/ Apts RIFS

POS-LLA

Date Sampled: 02/26/13

Date Received: 02/26/13

Date Extracted: 02/28/13

Date Analyzed: 03/06/13 00:59

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-Florisil Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF	0.71	0.65-0.89		0.199	0.745
2,3,7,8-TCDD	0.53	0.65-0.89		0.199	0.516 EMPC
1,2,3,7,8-PeCDF	1.89	1.32-1.78		0.993	0.393 JEMPC
2,3,4,7,8-PeCDF	1.44	1.32-1.78		0.993	0.453 J
1,2,3,7,8-PeCDD	0.74	1.32-1.78		0.993	0.483 JEMPC
1,2,3,4,7,8-HxCDF	1.11	1.05-1.43		0.993	0.715 J
1,2,3,6,7,8-HxCDF	2.98	1.05-1.43		0.993	0.522 JEMPC
2,3,4,6,7,8-HxCDF	1.25	1.05-1.43		0.993	0.898 J
1,2,3,7,8,9-HxCDF	0.70	1.05-1.43		0.993	0.238 JEMPC
1,2,3,4,7,8-HxCDD	1.16	1.05-1.43		0.993	0.675 J
1,2,3,6,7,8-HxCDD	1.34	1.05-1.43		0.993	2.02
1,2,3,7,8,9-HxCDD	1.17	1.05-1.43		0.993	1.35
1,2,3,4,6,7,8-HpCDF	1.04	0.88-1.20		0.993	8.79
1,2,3,4,7,8,9-HpCDF	0.99	0.88-1.20		0.993	0.703 J
1,2,3,4,6,7,8-HpCDD	1.05	0.88-1.20		0.993	48.5
OCDF	0.93	0.76-1.02		1.99	20.1
OCDD	0.87	0.76-1.02		1.99	383

Homologue Group	EDL	RL	Result
Total TCDF		0.993	12.7 EMPC
Total TCDD		0.993	6.07 EMPC
Total PeCDF		1.99	11.0 EMPC
Total PeCDD		0.993	7.24 EMPC
Total HxCDF		1.99	14.8 EMPC
Total HxCDD		1.99	20.6 EMPC
Total HpCDF		1.99	27.2 EMPC
Total HpCDD		1.99	115

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 2.56

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.56

Reported in pg/g

Lab Sample ID: WF26J  
 LIMS ID: 13-3802  
 Matrix: Soil  
 Data Release Authorized: *MW*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/06/13 00:59  
 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	0.79	0.65-0.89	65.2	24-169	
13C-2,3,7,8-TCDD	0.77	0.65-0.89	74.4	25-164	
13C-1,2,3,7,8-PeCDF	1.55	1.32-1.78	74.5	24-185	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	73.0	21-178	
13C-1,2,3,7,8-PeCDD	1.53	1.32-1.78	77.1	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	74.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	75.7	26-123	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	72.9	28-136	
13C-1,2,3,7,8,9-HxCDF	0.51	0.43-0.59	85.4	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	78.2	32-141	
13C-1,2,3,6,7,8-HxCDD	1.21	1.05-1.43	82.6	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.46	0.37-0.51	71.6	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.44	0.37-0.51	72.9	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.02	0.88-1.20	78.4	23-140	
13C-OCDD	0.87	0.76-1.02	70.5	17-157	
37C14-2,3,7,8-TCDD			78.1	35-197	

Reported in Percent Recovery

Lab Sample ID: WF26K  
 LIMS ID: 13-3803  
 Matrix: Soil  
 Data Release Authorized: *mw*  
 Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
 Project: LL Parcel/ Apts RIFS  
 POS-LLA  
 Date Sampled: 02/26/13  
 Date Received: 02/26/13

Date Extracted: 02/28/13  
 Date Analyzed: 03/06/13 01:52  
 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-Florisol Cleanup: Yes

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF		0.65-0.89	0.0708	0.197	< 0.0708 U
2,3,7,8-TCDD	0.42	0.65-0.89		0.197	0.102 JEMPC
1,2,3,7,8-PeCDF		1.32-1.78	0.120	0.983	< 0.120 U
2,3,4,7,8-PeCDF		1.32-1.78	0.120	0.983	< 0.120 U
1,2,3,7,8-PeCDD		1.32-1.78	0.124	0.983	< 0.124 U
1,2,3,4,7,8-HxCDF		1.05-1.43	0.0944	0.983	< 0.0944 U
1,2,3,6,7,8-HxCDF		1.05-1.43	0.0944	0.983	< 0.0944 U
2,3,4,6,7,8-HxCDF		1.05-1.43	0.104	0.983	< 0.104 U
1,2,3,7,8,9-HxCDF		1.05-1.43	0.120	0.983	< 0.120 U
1,2,3,4,7,8-HxCDD		1.05-1.43	0.116	0.983	< 0.116 U
1,2,3,6,7,8-HxCDD		1.05-1.43	0.122	0.983	< 0.122 U
1,2,3,7,8,9-HxCDD		1.05-1.43	0.126	0.983	< 0.126 U
1,2,3,4,6,7,8-HpCDF	1.62	0.88-1.20		0.983	0.199 BJEMPC
1,2,3,4,7,8,9-HpCDF		0.88-1.20	0.144	0.983	< 0.144 U
1,2,3,4,6,7,8-HpCDD	0.96	0.88-1.20		0.983	1.68 U
OCDF		0.76-1.02	0.334	1.97	< 0.334 U
OCDD	0.84	0.76-1.02		1.97	18.8

Homologue Group	EDL	RL	Result
Total TCDF	0.0708	0.983	0.198 EMPC
Total TCDD		0.983	0.590 EMPC
Total PeCDF	0.120	1.97	0.170 EMPC
Total PeCDD	0.124	0.983	< 0.124 U
Total HxCDF	0.120	1.97	< 0.120 U
Total HxCDD	0.126	1.97	0.569 EMPC
Total HpCDF		1.97	0.471 EMPC
Total HpCDD		1.97	3.83

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.13

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.25

Reported in pg/g

Lab Sample ID: WF26K  
LIMS ID: 13-3803  
Matrix: Soil  
Data Release Authorized: *MW*  
Reported: 03/07/13

QC Report No: WF26-Floyd Snider  
Project: LL Parcel/ Apts RIFS  
POS-LLA  
Date Sampled: 02/26/13  
Date Received: 02/26/13

Date Extracted: 02/28/13  
Date Analyzed: 03/06/13 01:52  
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	77.5	24-169	
13C-2,3,7,8-TCDD	0.80	0.65-0.89	83.5	25-164	
13C-1,2,3,7,8-PeCDF	1.59	1.32-1.78	75.9	24-185	
13C-2,3,4,7,8-PeCDF	1.51	1.32-1.78	73.4	21-178	
13C-1,2,3,7,8-PeCDD	1.57	1.32-1.78	78.6	25-181	
13C-1,2,3,4,7,8-HxCDF	0.51	0.43-0.59	85.6	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	89.9	26-123	
13C-2,3,4,6,7,8-HxCDF	0.50	0.43-0.59	80.4	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	82.8	29-147	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	89.3	32-141	
13C-1,2,3,6,7,8-HxCDD	1.28	1.05-1.43	95.7	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	75.2	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	76.4	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.04	0.88-1.20	83.7	23-140	
13C-OCDD	0.90	0.76-1.02	75.5	17-157	
37C14-2,3,7,8-TCDD			82.7	35-197	

Reported in Percent Recovery

**ORGANICS ANALYSIS DATA SHEET**

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: OPR-022813

Lab Sample ID: OPR-022813

QC Report No: WF26-Floyd Snider

LIMS ID: 13-3793

Project: LL Parcel/ Apts RIFS

Matrix: Soil

POS-LLA

Data Release Authorized: *MW*

Date Sampled: NA

Reported: 03/07/13

Date Received: NA

Date Extracted: 02/28/13

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 03/05/13 15:06

Final Extract Volume: 20 uL

Instrument/Analyst: AS1/PK

Dilution Factor: 1.00

Acid Cleanup: Yes

Silica-Florisil Cleanup: Yes

Silica-Carbon Cleanup: No

Analyte	Ion Ratio	Ratio Limits	RL	Result
2,3,7,8-TCDF	0.75	0.65-0.89	0.200	19.3
2,3,7,8-TCDD	0.74	0.65-0.89	0.200	18.3
1,2,3,7,8-PeCDF	1.49	1.32-1.78	1.00	98.0
2,3,4,7,8-PeCDF	1.57	1.32-1.78	1.00	103
1,2,3,7,8-PeCDD	1.55	1.32-1.78	1.00	101
1,2,3,4,7,8-HxCDF	1.21	1.05-1.43	1.00	100
1,2,3,6,7,8-HxCDF	1.22	1.05-1.43	1.00	100
2,3,4,6,7,8-HxCDF	1.24	1.05-1.43	1.00	109
1,2,3,7,8,9-HxCDF	1.22	1.05-1.43	1.00	102
1,2,3,4,7,8-HxCDD	1.22	1.05-1.43	1.00	98.9
1,2,3,6,7,8-HxCDD	1.26	1.05-1.43	1.00	99.6
1,2,3,7,8,9-HxCDD	1.22	1.05-1.43	1.00	98.6
1,2,3,4,6,7,8-HpCDF	0.98	0.88-1.20	1.00	109
1,2,3,4,7,8,9-HpCDF	1.01	0.88-1.20	1.00	104
1,2,3,4,6,7,8,9-HpCDD	1.05	0.88-1.20	1.00	96.5
OCDF	0.87	0.76-1.02	2.00	193
OCDD	0.87	0.76-1.02	2.00	193

Homologue Group	EDL	RL	Result
Total TCDF		1.00	20.0 EMPC
Total TCDD		1.00	18.9 EMPC
Total PeCDF		2.00	207 EMPC
Total PeCDD		1.00	103 EMPC
Total HxCDF		2.00	412 EMPC
Total HxCDD		2.00	297 EMPC
Total HpCDF		2.00	214 EMPC
Total HpCDD		2.00	98.0

Reported in pg/g



**ORGANICS ANALYSIS DATA SHEET**

**Dioxins/Furans by EPA 1613B**

Page 1 of 1

**Sample ID: OPR-022813**

Lab Sample ID: OPR-022813

QC Report No: WF26-Floyd Snider

LIMS ID: 13-3793

Project: LL Parcel/ Apts RIFS

Matrix: Soil

POS-LLA

Data Release Authorized: *MW*

Date Sampled: NA

Reported: 03/07/13

Date Received: NA

Date Extracted: 02/28/13

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 03/05/13 15:06

Final Extract Volume: 20 uL

Instrument/Analyst: AS1/PK

Dilution Factor: 1.00

Analyte	Ion Ratio	Ratio Limits	Result	Limits	Exceedance
13C-2,3,7,8-TCDF	0.79	0.65-0.89	83.0	22-152	
13C-2,3,7,8-TCDD	0.77	0.65-0.89	83.4	20-175	
13C-1,2,3,7,8-PeCDF	1.59	1.32-1.78	79.5	21-192	
13C-2,3,4,7,8-PeCDF	1.56	1.32-1.78	76.0	13-328	
13C-1,2,3,7,8-PeCDD	1.55	1.32-1.78	80.5	21-227	
13C-1,2,3,4,7,8-HxCDF	0.53	0.43-0.59	82.4	19-202	
13C-1,2,3,6,7,8-HxCDF	0.52	0.43-0.59	86.2	21-159	
13C-2,3,4,6,7,8-HxCDF	0.51	0.43-0.59	77.2	22-176	
13C-1,2,3,7,8,9-HxCDF	0.50	0.43-0.59	84.5	17-205	
13C-1,2,3,4,7,8-HxCDD	1.27	1.05-1.43	86.1	21-193	
13C-1,2,3,6,7,8-HxCDD	1.24	1.05-1.43	88.6	25-163	
13C-1,2,3,4,6,7,8-HpCDF	0.44	0.37-0.51	78.3	21-158	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	85.1	20-186	
13C-1,2,3,4,6,7,8-HpCDD	1.08	0.88-1.20	90.0	26-166	
13C-OCDD	0.89	0.76-1.02	86.7	13-198	
37C14-2,3,7,8-TCDD			82.1	31-191	

Reported in Percent Recovery

**ORGANICS ANALYSIS DATA SHEET**

**Dioxins/Furans by EPA 1613B**

Page 1 of 1

**Sample ID: OPR-022813**

Lab Sample ID: OPR-022813

LIMS ID: 13-3793

Matrix: Soil

Data Release Authorized: *MW*

Reported: 03/07/13

QC Report No: WF26-Floyd Snider

Project: LL Parcel/ Apts RIFS

POS-LLA

Date Sampled: NA

Date Received: NA

Date Extracted: 02/28/13

Date Analyzed: 03/05/13 15:06

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	19.3	20.0	96.5	75-158
2,3,7,8-TCDD	18.3	20.0	91.5	67-158
1,2,3,7,8-PeCDF	98.0	100	98.0	80-134
2,3,4,7,8-PeCDF	103	100	103	68-160
1,2,3,7,8-PeCDD	101	100	101	70-142
1,2,3,4,7,8-HxCDF	100	100	100	72-134
1,2,3,6,7,8-HxCDF	100	100	100	84-130
2,3,4,6,7,8-HxCDF	109	100	109	70-156
1,2,3,7,8,9-HxCDF	102	100	102	78-130
1,2,3,4,7,8-HxCDD	98.9	100	98.9	70-164
1,2,3,6,7,8-HxCDD	99.6	100	99.6	76-134
1,2,3,7,8,9-HxCDD	98.6	100	98.6	64-162
1,2,3,4,6,7,8-HpCDF	109	100	109	82-132
1,2,3,4,7,8,9-HpCDF	104	100	104	78-138
1,2,3,4,6,7,8-HpCDD	96.5	100	96.5	70-140
OCDF	193	200	96.5	63-170
OCDD	193	200	96.5	78-144

Reported in pg/g

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

Blank No.

WF26MB
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Lab Name: ANALYTICAL RESOURCES, INC.  
 Lab Code: WF26  
 Matrix: (Soil/Water/Ash/Tissue/Oil) SOIL  
 Sample wt/vol: 10 (g/ml) g  
 Water Sample Prep: (sep/spe)  
 GC Column: RTX-DIOXIN2 ID: 0.25 mm  
 Instrument ID: AUTOSPEC1

Contract: FLOYD-SNIDER  
 Project: LL PARCEL/APTS  
 Lab Sample ID: WF26MBS  
 Lab File ID: 13030504  
 Date Received: 26-FEB-13  
 Date Extracted: 28-FEB-13  
 Date Analyzed: 05-MAR-13

Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
WF26OPR	WF26OPR	13030505	03/05/13
LL-SB8-0-0.5-022613	WF26A	13030506	03/05/13
LL-SB8-1.5-2-022613	WF26B	13030507	03/05/13
LL-SB7-0-0.5-022613	WF26C	13030508	03/05/13
LL-SB7-1.5-2-022613	WF26D	13030509	03/05/13
LL-SB9-0-0.5-022613	WF26E	13030510	03/05/13
LL-SB9-1.5-2-022613	WF26F	13030512	03/05/13
LL-SB5-4-5-022613	WF26G	13030513	03/05/13
LL-SB10-0-0.5-022613	WF26H	13030514	03/05/13
LL-SB10-1.5-2-022613	WF26I	13030515	03/06/13
LL-SB11-0-0.5-022613	WF26J	13030516	03/06/13
LL-SB11-1.5-2-022613	WF26K	13030517	03/06/13

**ORGANICS ANALYSIS DATA SHEET**

**Dioxins/Furans by EPA 1613B**

Page 1 of 1

**Sample ID: MB-022813**

Lab Sample ID: MB-022813

QC Report No: WF26-Floyd Snider

LIMS ID: 13-3793

Project: LL Parcel/ Apts RIFS

Matrix: Soil

POS-LLA

Data Release Authorized: *THW*

Date Sampled: NA

Reported: 03/07/13

Date Received: NA

Date Extracted: 02/28/13

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 03/05/13 14:15

Final Extract Volume: 20 uL

Instrument/Analyst: AS1/PK

Dilution Factor: 1.00

Acid Cleanup: Yes

Silica-Florisil Cleanup: Yes

Silica-Carbon Cleanup: No

Analyte	Ion Ratio	Ratio Limits	EDL	RL	Result
2,3,7,8-TCDF		0.65-0.89	0.0820	0.200	< 0.0820 U
2,3,7,8-TCDD		0.65-0.89	0.0700	0.200	< 0.0700 U
1,2,3,7,8-PeCDF		1.32-1.78	0.0880	1.00	< 0.0880 U
2,3,4,7,8-PeCDF		1.32-1.78	0.0900	1.00	< 0.0900 U
1,2,3,7,8-PeCDD		1.32-1.78	0.0960	1.00	< 0.0960 U
1,2,3,4,7,8-HxCDF		1.05-1.43	0.0660	1.00	< 0.0660 U
1,2,3,6,7,8-HxCDF		1.05-1.43	0.0660	1.00	< 0.0660 U
2,3,4,6,7,8-HxCDF		1.05-1.43	0.0760	1.00	< 0.0760 U
1,2,3,7,8,9-HxCDF		1.05-1.43	0.0840	1.00	< 0.0840 U
1,2,3,4,7,8-HxCDD		1.05-1.43	0.124	1.00	< 0.124 U
1,2,3,6,7,8-HxCDD		1.05-1.43	0.124	1.00	< 0.124 U
1,2,3,7,8,9-HxCDD		1.05-1.43	0.130	1.00	< 0.130 U
1,2,3,4,6,7,8-HpCDF	0.78	0.88-1.20		1.00	0.100 JEMPC
1,2,3,4,7,8,9-HpCDF	0.94	0.88-1.20		1.00	0.0640 J
1,2,3,4,6,7,8-HpCDD		0.88-1.20	0.136	1.00	< 0.136 U
OCDF		0.76-1.02	0.200	2.00	< 0.200 U
OCDD	0.82	0.76-1.02		2.00	1.10 J

Homologue Group	EDL	RL	Result
Total TCDF	0.0820	1.00	< 0.0820 U
Total TCDD	0.0700	1.00	0.0520 EMPC
Total PeCDF	0.0900	2.00	< 0.0900 U
Total PeCDD	0.0960	1.00	< 0.0960 U
Total HxCDF	0.0840	2.00	< 0.0840 U
Total HxCDD	0.130	2.00	< 0.130 U
Total HpCDF		2.00	0.164 EMPC
Total HpCDD	0.136	2.00	< 0.136 U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.00

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.14

Reported in pg/g

**ORGANICS ANALYSIS DATA SHEET**

Dioxins/Furans by EPA 1613B

Page 1 of 1

Sample ID: MB-022813

Lab Sample ID: MB-022813

LIMS ID: 13-3793

Matrix: Soil

Data Release Authorized: *MW*

Reported: 03/07/13

QC Report No: WF26-Floyd Snider

Project: LL Parcel/ Apts RIFS

POS-LLA

Date Sampled: NA

Date Received: NA

Date Extracted: 02/28/13

Date Analyzed: 03/05/13 14:15

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	0.76	0.65-0.89	80.0	24-169	
13C-2,3,7,8-TCDD	0.77	0.65-0.89	86.6	25-164	
13C-1,2,3,7,8-PeCDF	1.63	1.32-1.78	79.6	24-185	
13C-2,3,4,7,8-PeCDF	1.55	1.32-1.78	79.2	21-178	
13C-1,2,3,7,8-PeCDD	1.53	1.32-1.78	82.2	25-181	
13C-1,2,3,4,7,8-HxCDF	0.53	0.43-0.59	87.8	26-152	
13C-1,2,3,6,7,8-HxCDF	0.51	0.43-0.59	94.5	26-123	
13C-2,3,4,6,7,8-HxCDF	0.52	0.43-0.59	81.6	28-136	
13C-1,2,3,7,8,9-HxCDF	0.52	0.43-0.59	89.6	29-147	
13C-1,2,3,4,7,8-HxCDD	1.25	1.05-1.43	89.6	32-141	
13C-1,2,3,6,7,8-HxCDD	1.27	1.05-1.43	96.2	28-130	
13C-1,2,3,4,6,7,8-HpCDF	0.45	0.37-0.51	83.1	28-143	
13C-1,2,3,4,7,8,9-HpCDF	0.45	0.37-0.51	90.2	26-138	
13C-1,2,3,4,6,7,8-HpCDD	1.01	0.88-1.20	93.0	23-140	
13C-OCDD	0.88	0.76-1.02	89.0	17-157	
37C14-2,3,7,8-TCDD			84.5	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: FLOYD-SNIDER  
Lab Code: WF26 Project: LL PARCEL/APTS  
GC Column: RTX-DIOXIN2 ID: 0.25 mm Lab File ID: 13030502  
Instrument ID: AUTOSPEC1 Date Analyzed: 05-MAR-13  
Time Analyzed: 12:22

CDD/CDF	RT First Eluting	RT Last Eluting
TCDD	24.08	27.54
TCDF	22.81	27.80
PeCDD	29.34	32.45
PeCDF	27.65	32.83
HxCDD	34.54	37.25
HxCDF	33.75	37.69
HpCDD	40.33	41.61
HpCDF	39.77	42.51

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

Standard No.

TETRA ISC

Lab Name: ANALYTICAL RESOURCES, INC.  
Lab Code: WF26  
GC Column: RTX-DIOXIN2 ID: .25 mm  
Instrument: AUTOSPEC1

Contract: FLOYD-SNIDER  
Project: LL PARCEL/APTS  
Lab File ID: 13030503  
Date Analyzed: 05-MAR-13  
Time Analyzed: 13:14

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

1278-TCDD/2378-TCDD: 18.8

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: 15.2

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: FLOYD-SNIDER

Lab Code: WF26

Project: LL PARCEL/APTS

GC Column: RTX-DIOXIN2 ID: 0.25 mm

Instrument ID: AUTOSPEC1

Init. Calib. Date(s): 11-FEB-13

Init: Calib. Times: 14:45 to 19:08

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
CS3	CS3	13030502	03/05/13	1222
ISC01	ISC01	13030503	03/05/13	1314
WF26MB	WF26MBS	13030504	03/05/13	1415
WF26OPR	WF26OPR	13030505	03/05/13	1506
LL-SB8-0-0.5-022613	WF26A	13030506	03/05/13	1559
LL-SB8-1.5-2-022613	WF26B	13030507	03/05/13	1652
LL-SB7-0-0.5-022613	WF26C	13030508	03/05/13	1745
LL-SB7-1.5-2-022613	WF26D	13030509	03/05/13	1837
LL-SB9-0-0.5-022613	WF26E	13030510	03/05/13	1930
CS3	CS3	13030511	03/05/13	2023
LL-SB9-1.5-2-022613	WF26F	13030512	03/05/13	2124
LL-SB5-4-5-022613	WF26G	13030513	03/05/13	2220
LL-SB10-0-0.5-022613	WF26H	13030514	03/05/13	2313
LL-SB10-1.5-2-022613	WF26I	13030515	03/06/13	0006
LL-SB11-0-0.5-022613	WF26J	13030516	03/06/13	0059
LL-SB11-1.5-2-022613	WF26K	13030517	03/06/13	0152
CS3	CS3	13030518	03/06/13	0245



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

Lab Name:	ANALYTICAL RESOURCES, INC.	Contract:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	0.25mm
Instrument ID:	AUTOSPEC1		
Init.Calib.Date CSL:	11-Feb-13	Init.Calib.Time CSL:	14:45:17
Init.Calib.Date CS1:	11-Feb-13	Init.Calib.Time CS1:	15:40:00
Init.Calib.Date CS2:	11-Feb-13	Init.Calib.Time CS2:	16:30:49
Init.Calib.Date CS3:	11-Feb-13	Init.Calib.Time CS3:	17:23:26
Init.Calib.Date CS4:	11-Feb-13	Init.Calib.Time CS4:	18:16:11
Init.Calib.Date CS5:	11-Feb-13	Init.Calib.Time CS5:	19:08:49

Target Analytes	RR/RRF						Mean RR/RRF	% RSD	Limits (% +/-)
	CSL	CS1	CS2	CS3	CS4	CS5			
2378-TCDD	1.37	1.07	1.03	1.03	1.06	1.08	1.11	11.7	20.0
2378-TCDF	1.12	0.87	0.85	0.88	0.89	0.91	0.92	10.6	20.0
12378-PeCDF	0.91	0.88	0.91	0.91	0.93	0.94	0.91	2.3	20.0
12378-PeCDD	0.99	0.99	0.98	1.00	1.01	1.02	1.00	1.5	20.0
23478-PeCDF	0.97	0.92	0.91	0.93	0.95	0.97	0.94	3.0	20.0
123478-HxCDF	1.14	1.07	1.08	1.09	1.10	1.13	1.10	2.4	20.0
123678-HxCDF	1.03	1.06	1.03	1.04	1.09	1.08	1.06	2.4	20.0
123478-HxCDD	0.92	1.02	0.95	0.97	0.99	1.02	0.98	4.1	20.0
123678-HxCDD	0.90	0.92	0.93	0.94	0.94	0.94	0.93	1.9	20.0
123789-HxCDD <sup>2</sup>	0.91	0.91	0.88	0.89	0.92	0.92	0.90	1.5	20.0
234678-HxCDF	1.09	1.04	1.05	1.07	1.09	1.10	1.07	2.3	20.0
123789-HxCDF	1.05	1.00	0.98	1.00	1.03	1.04	1.02	2.9	20.0
1234678-HpCDF	1.25	1.23	1.20	1.21	1.26	1.27	1.24	2.2	20.0
1234678-HpCDD	1.08	1.01	1.02	1.01	1.02	1.04	1.03	2.5	20.0
1234789-HpCDF	1.24	1.15	1.20	1.22	1.25	1.28	1.22	3.5	20.0
OCDD	1.09	0.97	0.98	1.00	1.00	1.02	1.01	4.2	20.0
OCDF <sup>1</sup>	1.15	1.12	1.12	1.17	1.19	1.24	1.16	4.0	20.0
37CL-2378-TCDD	1.11	0.96	1.02	0.99	1.05	1.18	1.05	7.6	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	0.92	0.89	0.94	0.93	0.94	1.03	0.94	5.0	35.0
13C-12378-PeCDD	0.69	0.67	0.68	0.72	0.70	0.84	0.72	8.9	35.0
13C-123478-HxCDD	1.04	1.01	1.03	1.03	1.04	1.04	1.03	0.9	35.0
13C-123678-HxCDD	1.08	1.08	1.08	1.07	1.07	1.08	1.08	0.4	35.0
13C-1234678-HpCDD	0.84	0.89	0.80	0.83	0.83	0.83	0.84	3.4	35.0
13C-OCDD	0.65	0.70	0.62	0.68	0.69	0.71	0.68	4.7	35.0
13C-2378-TCDF	1.49	1.46	1.53	1.50	1.53	1.62	1.52	3.7	35.0
13C-12378-PeCDF	1.14	1.08	1.13	1.18	1.17	1.41	1.19	9.6	35.0
13C-23478-PeCDF	1.09	1.05	1.08	1.14	1.12	1.34	1.14	9.0	35.0
13C-123478-HxCDF	1.29	1.26	1.31	1.28	1.29	1.27	1.28	1.4	35.0
13C-123678-HxCDF	1.38	1.36	1.40	1.39	1.38	1.38	1.38	1.0	35.0
13C-234678-HxCDF	1.30	1.28	1.29	1.27	1.27	1.28	1.28	0.8	35.0
13C-123789-HxCDF	1.08	1.08	1.10	1.10	1.11	1.11	1.10	1.3	35.0
13C-1234678-HpCDF	1.07	1.10	1.04	1.07	1.07	1.07	1.07	1.8	35.0
13C-1234789-HpCDF	0.76	0.81	0.73	0.79	0.77	0.78	0.77	3.4	35.0

**6DFB - Form VI-HR CDD-2**  
**CDD/CDF INITIAL CALIBRATION ION ABUNDANCE RATIO SUMMARY**  
**HIGH RESOLUTION**

Lab Name:	ANALYTICAL RESOURCES, INC.	Contract:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	0.25mm
Instrument ID:	AUTOSPEC1		
Init.Calib.Date CSL:	11-Feb-13	Init.Calib.Time CSL:	14:45:17
Init.Calib.Date CS1:	11-Feb-13	Init.Calib.Time CS1:	15:40:00
Init.Calib.Date CS2:	11-Feb-13	Init.Calib.Time CS2:	16:30:49
Init.Calib.Date CS3:	11-Feb-13	Init.Calib.Time CS3:	17:23:26
Init.Calib.Date CS4:	11-Feb-13	Init.Calib.Time CS4:	18:16:11
Init.Calib.Date CS5:	11-Feb-13	Init.Calib.Time CS5:	19:08:49

Target Analytes	Selected Ions	Ion Abundance Ratio						Ratio Flag	Ratio QC Limits <sup>#</sup>
		CSL	CS1	CS2	CS3	CS4	CS5		
2378-TCDD	320/322	0.75	0.80	0.79	0.80	0.77	0.78		0.65 - 0.89
2378-TCDF	304/306	0.87	0.81	0.76	0.75	0.77	0.77		0.65 - 0.89
12378-PeCDF	340/342	1.57	1.51	1.50	1.55	1.54	1.52		1.32 - 1.78
12378-PeCDD	356/358	1.62	1.61	1.56	1.55	1.55	1.54		1.32 - 1.78
23478-PeCDF	340/342	1.48	1.44	1.48	1.51	1.52	1.53		1.32 - 1.78
123478-HxCDF	374/376	1.21	1.20	1.19	1.22	1.22	1.22		1.05 - 1.43
123678-HxCDF	374/376	1.27	1.24	1.19	1.23	1.22	1.23		1.05 - 1.43
123478-HxCDD	390/392	1.33	1.25	1.23	1.22	1.24	1.25		1.05 - 1.43
123678-HxCDD	390/392	1.23	1.23	1.27	1.21	1.24	1.24		1.05 - 1.43
123789-HxCDD	390/392	1.24	1.20	1.25	1.24	1.24	1.24		1.05 - 1.43
234678-HxCDF	374/376	1.35	1.16	1.22	1.20	1.22	1.19		1.05 - 1.43
123789-HxCDF	374/376	1.09	1.30	1.22	1.24	1.23	1.22		1.05 - 1.43
1234678-HpCDF	408/410	0.96	1.03	0.99	1.00	1.01	1.01		0.89 - 1.21
1234678-HpCDD	424/426	1.08	1.10	1.04	1.02	1.05	1.04		0.89 - 1.21
1234789-HpCDF	408/410	0.91	0.99	1.01	1.01	1.01	1.02		0.89 - 1.21
OCDD	458/460	0.93	0.84	0.91	0.90	0.89	0.89		0.76 - 1.02
OCDF	442/444	0.87	0.88	0.89	0.88	0.88	0.89		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	0.78	0.78	0.78		0.65 - 0.89
13C-12378-PeCDD	368/370	1.57	1.58	1.58	1.59	1.60	1.57		1.32 - 1.78
13C-123478-HxCDD	402/404	1.26	1.25	1.26	1.27	1.27	1.27		1.05 - 1.43
13C-123678-HxCDD	402/404	1.25	1.24	1.23	1.26	1.26	1.25		1.05 - 1.43
13C-1234678-HpCDD	436/438	1.03	1.03	1.04	1.04	1.04	1.05		0.89 - 1.21
13C-OCDD	470/472	0.90	0.90	0.91	0.89	0.89	0.89		0.76 - 1.02
13C-2378-TCDF	316/318	0.78	0.78	0.78	0.77	0.79	0.79		0.65 - 0.89
13C-12378-PeCDF	352/354	1.56	1.58	1.56	1.58	1.56	1.57		1.32 - 1.78
13C-23478-PeCDF	352/354	1.57	1.58	1.57	1.56	1.57	1.57		1.32 - 1.78
13C-123478-HxCDF	384/386	0.52	0.52	0.52	0.51	0.52	0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	0.52	0.52	0.52	0.51	0.52	0.53		0.43 - 0.59
13C-234678-HxCDF	384/386	0.52	0.52	0.52	0.52	0.53	0.53		0.43 - 0.59
13C-123789-HxCDF	384/386	0.53	0.52	0.50	0.53	0.52	0.53		0.43 - 0.59
13C-1234678-HpCDF	418/420	0.44	0.45	0.45	0.45	0.44	0.45		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.45	0.46	0.45	0.43	0.44	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	0.79		0.65 - 0.89
13C-123789-HxCDD	402/404	1.24	1.24	1.24	1.26	1.25	1.24		1.05 - 1.43

(#) Quality Control (QC) limits represent ±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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030502
Date Analysed:	05-Mar-13	Time Analysed:	12 22:44
Init. Calib. Date:	11-FEB-13	Init. Calib. Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
2378-TCDD	320/322	1.03	1.11	-6.8		0.75		0.65 - 0.89
2378-TCDF	304/306	0.87	0.92	-5.9		0.74		0.65 - 0.89
12378-PeCDF	340/342	0.90	0.91	-1.7		1.51		1.32 - 1.78
12378-PeCDD	356/358	0.98	1.00	-1.8		1.50		1.32 - 1.78
23478-PeCDF	340/342	0.91	0.94	-2.9		1.51		1.32 - 1.78
123478-HxCDF	374/376	1.10	1.10	-0.5		1.21		1.05 - 1.43
123678-HxCDF	374/376	1.07	1.06	1.0		1.17		1.05 - 1.43
123478-HxCDD	390/392	1.00	0.98	2.5		1.26		1.05 - 1.43
123678-HxCDD	390/392	0.91	0.93	-1.6		1.30		1.05 - 1.43
123789-HxCDD	390/392	0.93	0.90	2.4		1.22		1.05 - 1.43
234678-HxCDF	374/376	1.07	1.07	-0.2		1.23		1.05 - 1.43
123789-HxCDF	374/376	1.02	1.02	-0.2		1.23		1.05 - 1.43
1234678-HpCDF	408/410	1.26	1.24	2.0		0.99		0.89 - 1.21
1234678-HpCDD	424/426	0.97	1.03	-5.9		1.08		0.89 - 1.21
1234789-HpCDF	408/410	1.25	1.22	2.0		0.97		0.89 - 1.21
OCDD	458/460	1.00	1.01	-1.0		0.89		0.76 - 1.02
OCDF	442/444	1.14	1.16	-1.8		0.87		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
13C-2378-TCDD	332/334	0.93	0.94	-0.9		0.76		0.65 - 0.89
13C-12378-PeCDD	368/370	0.74	0.72	3.9		1.60		1.32 - 1.78
13C-123478-HxCDD	402/404	1.00	1.03	-3.0		1.28		1.05 - 1.43
13C-123678-HxCDD	402/404	1.09	1.08	1.2		1.27		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.92	0.84	9.4		1.06		0.89 - 1.21
13C-OCDD	470/472	0.82	0.68	21.0		0.91		0.76 - 1.02
13C-2378-TCDF	316/318	1.44	1.52	-5.4		0.78		0.65 - 0.89
13C-12378-PeCDF	352/354	1.21	1.19	2.1		1.55		1.32 - 1.78
13C-23478-PeCDF	352/354	1.11	1.14	-1.9		1.58		1.32 - 1.78
13C-123478-HxCDF	384/386	1.21	1.28	-5.6		0.51		0.43 - 0.59
13C-123678-HxCDF	384/386	1.33	1.38	-3.5		0.49		0.43 - 0.59
13C-234678-HxCDF	384/386	1.23	1.28	-4.2		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.11	1.10	0.9		0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.07	1.07	-0.1		0.44		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.84	0.77	8.7		0.45		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
37CL-2378-TCDD	328	0.99	1.05	-5.4		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ion Ratio Flag <sup>#</sup>	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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030502
Date Analysed	05-Mar-13	Time Analysed	12:22:44
Init.Calib.Date:	11-FEB-13	Init.Calib.Time:	

Target Analytes	RRT <sup>#</sup>	RT
2378-TCDD	1.00	26.94
2378-TCDF	1.00	26.30
12378-PeCDF	1.00	30.45
12378-PeCDD	1.00	32.05
23478-PeCDF	1.00	31.79
123478-HxCDF	1.00	35.47
123678-HxCDF	1.00	35.63
123478-HxCDD	1.00	36.70
123678-HxCDD	1.00	36.83
123789-HxCDD	1.01	37.26
234678-HxCDF	1.00	36.57
123789-HxCDF	1.00	37.69
1234678-HpCDF	1.00	39.77
1234678-HpCDD	1.00	41.61
1234789-HpCDF	1.00	42.51
OCDD	1.00	47.62
OCDF	1.01	47.90

Labeled Compounds	RRT <sup>#</sup>	RT
13C-2378-TCDD	1.03	26.93
13C-12378-PeCDD	1.23	32.03
13C-123478-HxCDD	0.99	36.69
13C-123678-HxCDD	0.99	36.81
13C-1234678-HpCDD	1.12	41.59
13C-OCDD	1.28	47.59
13C-2378-TCDF	1.01	26.29
13C-12378-PeCDF	1.17	30.43
13C-23478-PeCDF	1.22	31.78
13C-123478-HxCDF	0.95	35.45
13C-123678-HxCDF	0.96	35.60
13C-234678-HxCDF	0.98	36.55
13C-123789-HxCDF	1.01	37.68
13C-1234678-HpCDF	1.07	39.76
13C-1234789-HpCDF	1.14	42.49

Clean up Standard	RRT <sup>#</sup>	RT
37CL-2378-TCDD	1.03	26.94

Internal Standards	RRT <sup>#</sup>	RT
13C-1234-TCDD	0.00	26.11
13C-123789-HxCDD	0.00	37.24

(#) 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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030511
Date Analysed:	05-Mar-13	Time Analysed:	20:23:38
Init. Calib. Date:	11-FEB-13	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	1.11	-7.7		0.80		0.65 - 0.89
2378-TCDF	304/306	0.86	0.92	-6.8		0.73		0.65 - 0.89
12378-PeCDF	340/342	0.89	0.91	-2.2		1.48		1.32 - 1.78
12378-PeCDD	356/358	0.99	1.00	-1.0		1.54		1.32 - 1.78
23478-PeCDF	340/342	0.93	0.94	-1.6		1.58		1.32 - 1.78
123478-HxCDF	374/376	1.09	1.10	-1.4		1.23		1.05 - 1.43
123678-HxCDF	374/376	1.04	1.06	-1.3		1.17		1.05 - 1.43
123478-HxCDD	390/392	0.97	0.98	-1.1		1.29		1.05 - 1.43
123678-HxCDD	390/392	0.93	0.93	0.5		1.25		1.05 - 1.43
123789-HxCDD	390/392	0.91	0.90	0.7		1.29		1.05 - 1.43
234678-HxCDF	374/376	1.06	1.07	-0.8		1.26		1.05 - 1.43
123789-HxCDF	374/376	1.01	1.02	-0.9		1.17		1.05 - 1.43
1234678-HpCDF	408/410	1.26	1.24	1.9		0.98		0.89 - 1.21
1234678-HpCDD	424/426	0.99	1.03	-3.5		1.02		0.89 - 1.21
1234789-HpCDF	408/410	1.26	1.22	2.8		0.99		0.89 - 1.21
OCDD	458/460	0.97	1.01	-4.0		0.88		0.76 - 1.02
OCDF	442/444	1.12	1.16	-4.0		0.88		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	0.91	0.94	-3.2		0.75		0.65 - 0.89
13C-12378-PeCDD	368/370	0.69	0.72	-3.1		1.60		1.32 - 1.78
13C-123478-HxCDD	402/404	1.03	1.03	-0.4		1.27		1.05 - 1.43
13C-123678-HxCDD	402/404	1.12	1.08	4.0		1.27		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.91	0.84	8.6		1.05		0.89 - 1.21
13C-OCDD	470/472	0.82	0.68	21.3		0.90		0.76 - 1.02
13C-2378-TCDF	316/318	1.42	1.52	-6.9		0.75		0.65 - 0.89
13C-12378-PeCDF	352/354	1.09	1.19	-7.7		1.61		1.32 - 1.78
13C-23478-PeCDF	352/354	1.05	1.14	-7.5		1.59		1.32 - 1.78
13C-123478-HxCDF	384/386	1.23	1.28	-4.5		0.53		0.43 - 0.59
13C-123678-HxCDF	384/386	1.41	1.38	1.7		0.51		0.43 - 0.59
13C-234678-HxCDF	384/386	1.28	1.28	0.1		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.10	1.10	0.1		0.52		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.06	1.07	-0.8		0.44		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.81	0.77	5.0		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	1.00	1.05	-5.0		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	0.76		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.22		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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030511
Date Analysed	05-Mar-13	Time Analysed	20:23:38
Init. Calib. Date:	11-FEB-13	Init. Calib. Time:	

Target Analytes	RRT <sup>#</sup>	RT
2378-TCDD	1.00	26.93
2378-TCDF	1.00	26.29
12378-PeCDF	1.00	30.43
12378-PeCDD	1.00	32.03
23478-PeCDF	1.00	31.78
123478-HxCDF	1.00	35.46
123678-HxCDF	1.00	35.61
123478-HxCDD	1.00	36.69
123678-HxCDD	1.00	36.81
123789-HxCDD	1.01	37.24
234678-HxCDF	1.00	36.56
123789-HxCDF	1.00	37.69
1234678-HpCDF	1.00	39.76
1234678-HpCDD	1.00	41.60
1234789-HpCDF	1.00	42.50
OCDD	1.00	47.60
OCDF	1.01	47.88

Labeled Compounds	RRT <sup>#</sup>	RT
13C-2378-TCDD	1.03	26.90
13C-12378-PeCDD	1.23	32.02
13C-123478-HxCDD	0.99	36.67
13C-123678-HxCDD	0.99	36.80
13C-1234678-HpCDD	1.12	41.58
13C-OCDD	1.28	47.58
13C-2378-TCDF	1.01	26.27
13C-12378-PeCDF	1.17	30.42
13C-23478-PeCDF	1.22	31.76
13C-123478-HxCDF	0.95	35.44
13C-123678-HxCDF	0.96	35.59
13C-234678-HxCDF	0.98	36.54
13C-123789-HxCDF	1.01	37.67
13C-1234678-HpCDF	1.07	39.74
13C-1234789-HpCDF	1.14	42.48

Clean up Standard	RRT <sup>#</sup>	RT
37CL-2378-TCDD	1.03	26.93

Internal Standards	RRT <sup>#</sup>	RT
13C-1234-TCDD	0.00	26.09
13C-123789-HxCDD	0.00	37.23

(#) 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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No :		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030518
Date Analysed	06-Mar-13	Time Analysed	02:45:01
Init.Calib.Date	11-FEB-13	Int.Calib.Time:	

Target Analytes	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
2378-TCDD	320/322	1.03	1.11	-6.8		0.79		0.65 - 0.89
2378-TCDF	304/306	0.88	0.92	-4.6		0.75		0.65 - 0.89
12378-PeCDF	340/342	0.88	0.91	-4.0		1.50		1.32 - 1.78
12378-PeCDD	356/358	0.99	1.00	-1.2		1.57		1.32 - 1.78
23478-PeCDF	340/342	0.92	0.94	-2.7		1.49		1.32 - 1.78
123478-HxCDF	374/376	1.11	1.10	1.0		1.21		1.05 - 1.43
123678-HxCDF	374/376	1.10	1.06	3.9		1.20		1.05 - 1.43
123478-HxCDD	390/392	0.98	0.98	-0.1		1.28		1.05 - 1.43
123678-HxCDD	390/392	0.93	0.93	0.0		1.20		1.05 - 1.43
123789-HxCDD	390/392	0.89	0.90	-1.4		1.25		1.05 - 1.43
234678-HxCDF	374/376	1.07	1.07	0.2		1.19		1.05 - 1.43
123789-HxCDF	374/376	0.99	1.02	-2.2		1.19		1.05 - 1.43
1234678-HpCDF	408/410	1.28	1.24	3.5		1.01		0.89 - 1.21
1234678-HpCDD	424/426	1.00	1.03	-2.5		1.02		0.89 - 1.21
1234789-HpCDF	408/410	1.24	1.22	1.4		1.00		0.89 - 1.21
OCDD	458/460	0.99	1.01	-2.1		0.90		0.76 - 1.02
OCDF	442/444	1.12	1.16	-3.6		0.88		0.76 - 1.02

Labeled Compounds	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
13C-2378-TCDD	332/334	0.92	0.94	-2.5		0.77		0.65 - 0.89
13C-12378-PeCDD	368/370	0.67	0.72	-6.1		1.54		1.32 - 1.78
13C-123478-HxCDD	402/404	1.02	1.03	-1.4		1.26		1.05 - 1.43
13C-123678-HxCDD	402/404	1.11	1.08	2.9		1.25		1.05 - 1.43
13C-1234678-HpCDD	436/438	0.83	0.84	-0.3		1.03		0.89 - 1.21
13C-OCDD	470/472	0.71	0.68	5.0		0.87		0.76 - 1.02
13C-2378-TCDF	316/318	1.40	1.52	-7.7		0.77		0.65 - 0.89
13C-12378-PeCDF	352/354	1.08	1.19	-9.1		1.53		1.32 - 1.78
13C-23478-PeCDF	352/354	1.01	1.14	-11.2		1.57		1.32 - 1.78
13C-123478-HxCDF	384/386	1.22	1.28	-4.7		0.52		0.43 - 0.59
13C-123678-HxCDF	384/386	1.34	1.38	-3.0		0.52		0.43 - 0.59
13C-234678-HxCDF	384/386	1.23	1.28	-4.2		0.52		0.43 - 0.59
13C-123789-HxCDF	384/386	1.05	1.10	-4.7		0.53		0.43 - 0.59
13C-1234678-HpCDF	418/420	1.01	1.07	-5.7		0.46		0.37 - 0.51
13C-1234789-HpCDF	418/420	0.76	0.77	-1.6		0.43		0.37 - 0.51

Clean-up	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ratio Flag <sup>#</sup>	Ratio QC Limits
37CL-2378-TCDD	328	1.00	1.05	-4.5		NA	NA	NA

Internal Standards	Selected Ions	RRF	Mean RRF	%D	%D Flag <sup>#</sup>	Ion Ratio	Ion Ratio Flag <sup>#</sup>	Ion Ratio QC Limits
13C-1234-TCDD	332/334	NA	NA	NA	NA	0.77		0.65 - 0.89
13C-123789-HxCDD	402/404	NA	NA	NA	NA	1.30		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:	FLOYD-SNIDER
Lab Code:	WF26	Case No.:	LL PARCEL/APTS
TO No.:		SDG No.:	
GC Column:	RTX-DIOXIN2	ID (mm):	.25
Instrument ID:	AUTOSPEC1	Lab File ID:	13030518
Date Analysed	06-Mar-13	Time Analysed	02:45:01
Init.Calib.Date:	11-FEB-13	Init.Calib.Time:	

Target Analytes	RRT <sup>#</sup>	RT
2378-TCDD	1.00	26.94
2378-TCDF	1.00	26.29
12378-PeCDF	1.00	30.44
12378-PeCDD	1.00	32.04
23478-PeCDF	1.00	31.79
123478-HxCDF	1.00	35.47
123678-HxCDF	1.00	35.62
123478-HxCDD	1.00	36.70
123678-HxCDD	1.00	36.83
123789-HxCDD	1.01	37.25
234678-HxCDF	1.00	36.56
123789-HxCDF	1.00	37.69
1234678-HpCDF	1.00	39.77
1234678-HpCDD	1.00	41.61
1234789-HpCDF	1.00	42.51
OCDD	1.00	47.61
OCDF	1.01	47.90

Labeled Compounds	RRT <sup>#</sup>	RT
13C-2378-TCDD	1.03	26.91
13C-12378-PeCDD	1.23	32.02
13C-123478-HxCDD	0.99	36.68
13C-123678-HxCDD	0.99	36.81
13C-1234678-HpCDD	1.12	41.59
13C-OCDD	1.28	47.58
13C-2378-TCDF	1.01	26.27
13C-12378-PeCDF	1.17	30.43
13C-23478-PeCDF	1.22	31.77
13C-123478-HxCDF	0.95	35.45
13C-123678-HxCDF	0.96	35.60
13C-234678-HxCDF	0.98	36.55
13C-123789-HxCDF	1.01	37.68
13C-1234678-HpCDF	1.07	39.76
13C-1234789-HpCDF	1.14	42.49

Clean up Standard	RRT <sup>#</sup>	RT
37CL-2378-TCDD	1.03	26.93

Internal Standards	RRT <sup>#</sup>	RT
13C-1234-TCDD	0.00	26.11
13C-123789-HxCDD	0.00	37.24

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



**Total Solids**

**ARI Job ID: WF26**

|

Total Solids Targets-Extractions  
Data By: Jim Hawk  
Created: 2/27/13

Worklist: 1669  
Analyst: JBH  
Comments:

ARI ID	Target Dry Wt (g)	Total Solids	Min Wet Wt (g)
1. WF26A	10.00	74.5	13.42
2. WF26B	10.00	85.0	11.76
3. WF26C	10.00	73.7	13.57
4. WF26D	10.00	83.7	11.95
5. WF26E	10.00	85.0	11.76
6. WF26F	10.00	90.0	11.11
7. WF26G	10.00	81.3	12.30
8. WF26H	10.00	82.2	12.17
9. WF26I	10.00	89.7	11.15
10. WF26J	10.00	73.9	13.53
11. WF26K	10.00	83.4	11.99

Extractions Total Solids-exttts  
Data By: Yen Luu  
Created: 2/26/13

Worklist: 1486  
Analyst: RVR  
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.	WF26A 13-3793 LL-SB8-0-0.5-022013	1.16	11.55	8.90	74.5	NR
2.	WF26B 13-3794 LL-SB8-1.5-2-022613	1.17	12.47	10.77	85.0	NR
3.	WF26C 13-3795 LL-SB7-0-0.5-022613	1.16	11.27	8.61	73.7	NR
4.	WF26D 13-3796 LL-SB7-1.5-2-022613	1.15	11.24	9.60	83.7	NR
5.	WF26E 13-3797 LL-SB9-0-0.5-022613	1.15	11.91	10.30	85.0	NR
6.	WF26F 13-3798 LL-SB9-1.5-2-022613	1.18	12.44	11.31	90.0	NR
7.	WF26G 13-3799 LL-SB5-4-5-022613	1.18	12.23	10.16	81.3	NR
8.	WF26H 13-3800 LL-SB10-0-0.5-022613	1.18	12.06	10.12	82.2	NR
9.	WF26I 13-3801 LL-SB10-1.5-2-022613	1.18	12.50	11.33	89.7	NR
10.	WF26J 13-3802 LL-SB11-0-0.5-022613	1.17	11.97	9.15	73.9	NR
11.	WF26K 13-3803 LL-SB11-1.5-2-022613	1.17	12.71	10.80	83.4	NR

Extractions Total Solids-exttts  
Data By: Yen Luu  
Created: 2/26/13

Worklist: 1486  
Analyst: YL  
Comments:

Oven ID: ϕ15

Balance ID: B 14642614

Samples In: Date: ϕ26/13 Time: 17:46 Temp: 1ϕ1 Analyst: CT

Samples Out: Date: 27/13 Time: 16:45 Temp: 1ϕ6 Analyst: RR

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. WF26A 13-3793 LL-SB8-0-0.5-022013	1.16	11.55	8.90		NR
2. WF26B 13-3794 LL-SB8-1.5-2-022613	1.17	12.47	10.77		NR
3. WF26C 13-3795 LL-SB7-0-0.5-022613	1.16	11.27	8.61		NR
4. WF26D 13-3796 LL-SB7-1.5-2-022613	1.15	11.24	9.60		NR
5. WF26E 13-3797 LL-SB9-0-0.5-022613	1.15	11.91	10.30		NR
6. WF26F 13-3798 LL-SB9-1.5-2-022613	1.18	12.44	11.31		NR
7. WF26G 13-3799 LL-SB5-4-5-022613	1.18	12.23	10.16		NR
8. WF26H 13-3800 LL-SB10-0-0.5-022613	1.18	12.06	10.12		NR
9. WF26I 13-3801 LL-SB10-1.5-2-022613	1.18	12.50	11.33		NR
10. WF26J 13-3802 LL-SB11-0-0.5-022613	1.17	11.97	9.15		NR
11. WF26K 13-3803 LL-SB11-1.5-2-022613	1.17	12.71	10.80		NR

**Dioxin Raw Data  
Extraction Bench Sheets and Notes**

**ARI Job ID: WF26**





ARI Job No.: WF26

Client ID: Floyd Snider

Parameter: Dioxin 1613B

Client Project: LL Parcel/Apts RIFS

Screens: Soil/Sediment/Solid/Other:	Analyst/Date:
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>A, B, D, E, G, I, J, K</u>	<u>YL 2/26/13</u>
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>5.01</u> <u>small rock 5.01</u> <u>F, H, I, J</u> <u>1/26/13</u>	<u>YL 2/26/13</u>
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= <u>C, H,</u>	<u>YL 2/26/13</u>
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<b>Aqueous:</b>	
<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)	

3056F  
Review: [Signature] 3/4/13

Revision 009  
08/14/12

**Dioxin Raw Data  
Initial Calibration**

**ARI Job ID: WF26**



### HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: \_\_\_\_\_ Client ID: \_\_\_\_\_

ARI SOP: 806S (Dioxins)

Parameter(s): Dioxin Curve 2/11/13

Instrument: **AutoSpec01**

Curve Date: 2/11/13 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
ICal 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 cpds < 20% RSD. All pts: CSL - CS5.  
- Man Int. on CSL for TF, PF, PD, OCDD.

Additional Details on Reverse: Yes / No

Analyst: Phyllis Date: 2/12/13

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**Analytical Resources Inc.: Organics Instrument Log**

AutoSpec01 Serial No.:GC=CN10921030, MS=P764

Date: 2/11/13 Analysis: Dioxins Analyst: JH  
 GC Program: 8090C Column No: I7818 Column Type: MS-210912  
 Inj Vol: 1ul Instrument Tune (IPR): 10K8090B Detector Voltage: 340  
 Resolution Check Files: \_\_\_\_\_ Curve Date: 2/11/13

IS/SS	Ical/Ccal	LCS/ICV
<u>I7908</u>	<u>I7333 - I7337</u>	<u>I7383</u>
	<u>I7214</u>	
	<u>1997-2</u>	

1	11-Feb-13	12:04:12	13021102	PCDFS
2	11-Feb-13	12:55:00	13021103	CS3
3	11-Feb-13	13:54:29	13021104	ISC01
4	11-Feb-13	14:45:17	13021105	CSL
5	11-Feb-13	15:40:00	13021106	CS1
6	11-Feb-13	16:30:49	13021107	CS2
7	11-Feb-13	17:23:26	13021108	CS3
8	11-Feb-13	18:16:11	13021109	CS4
9	11-Feb-13	19:08:49	13021110	CS5
10	11-Feb-13	20:01:34	13021111	ICV
11	11-Feb-13	20:54:12	13021112	CS3
12	11-Feb-13	21:55:09	13021113	ISC02

JH 2/12/13

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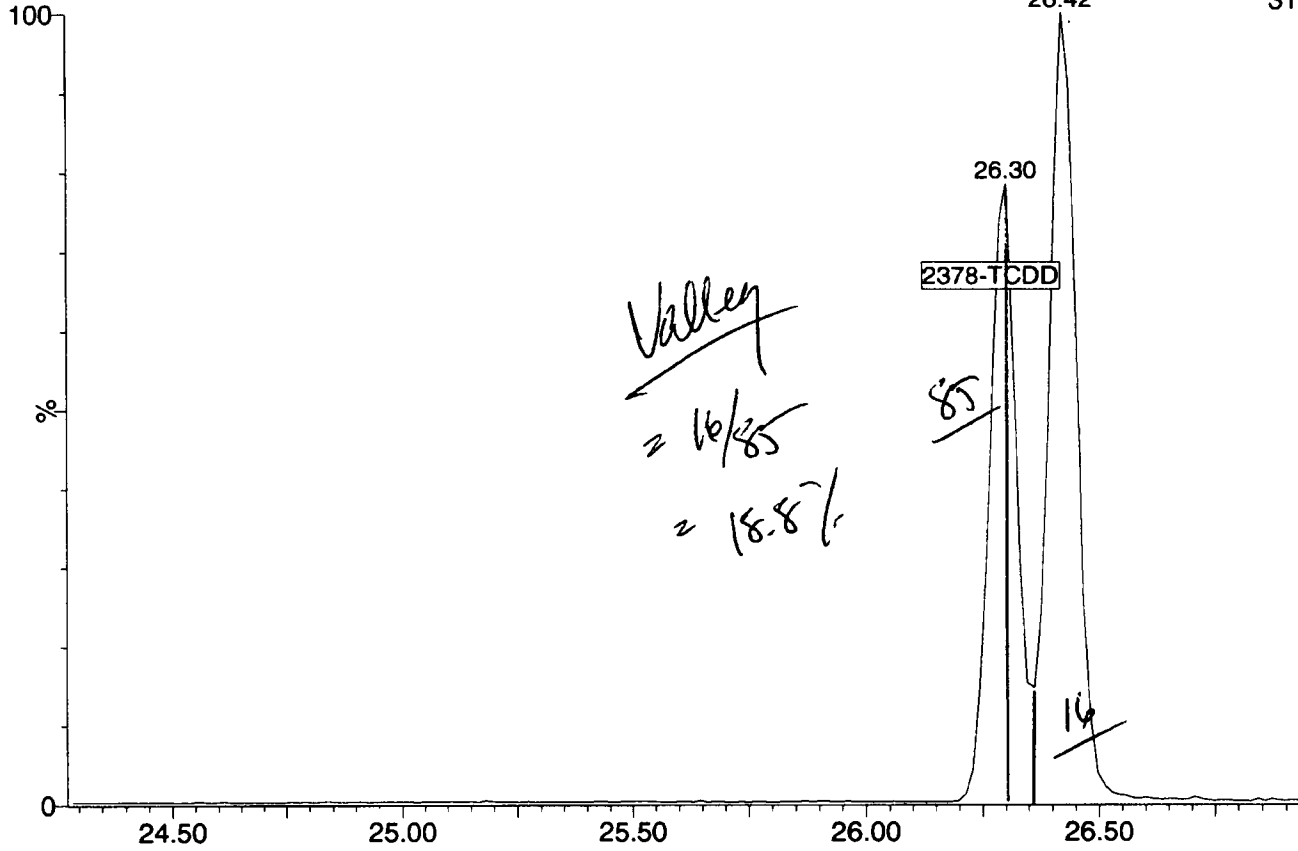
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Every line must contain information or be lined out. Make all entries legible.  
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

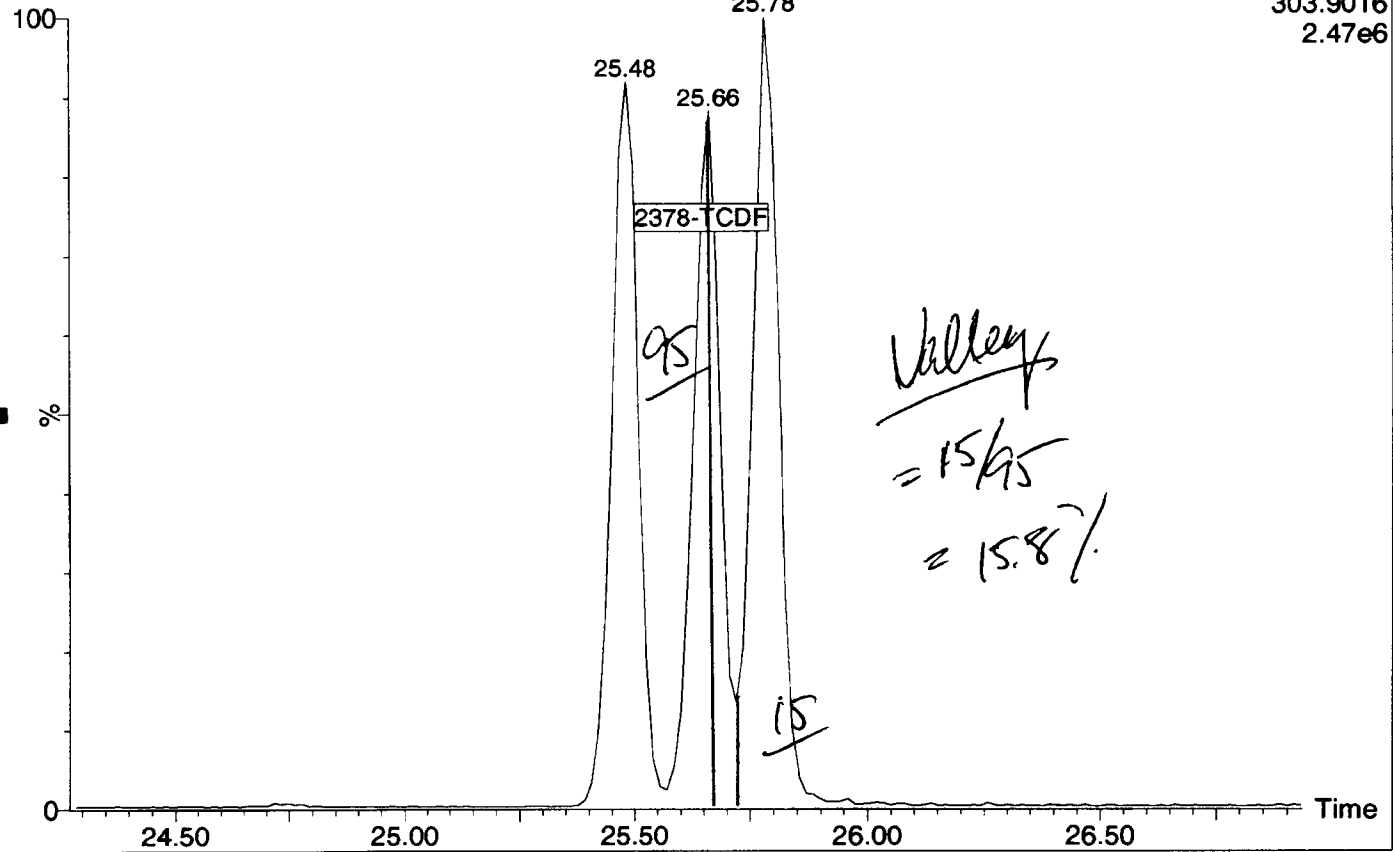
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2.03e6



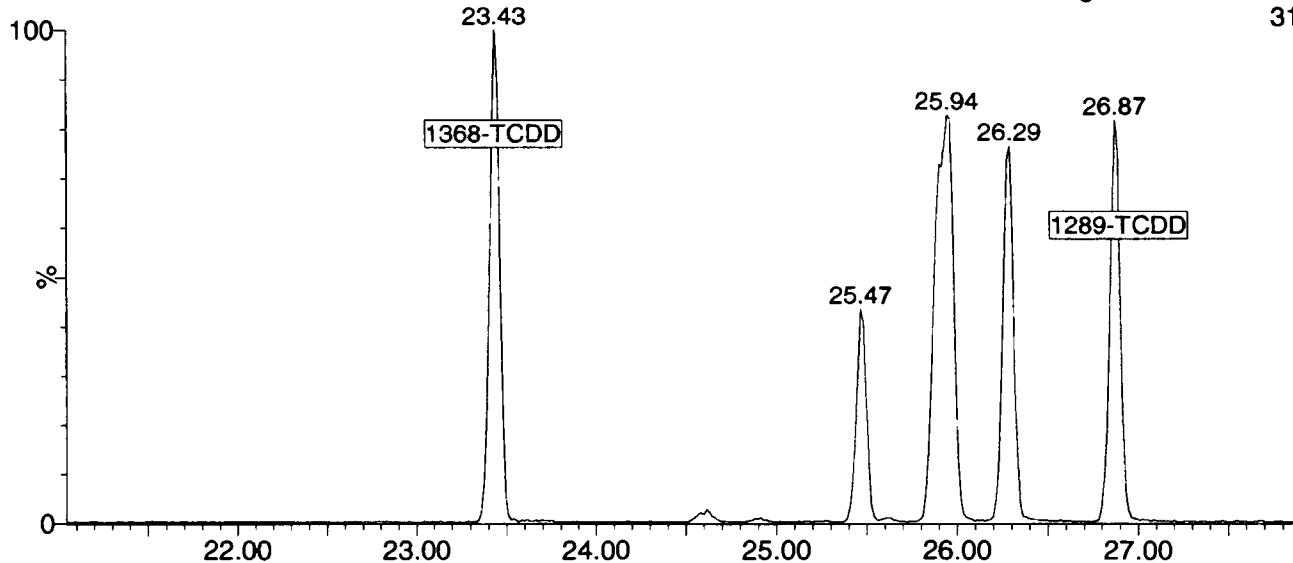
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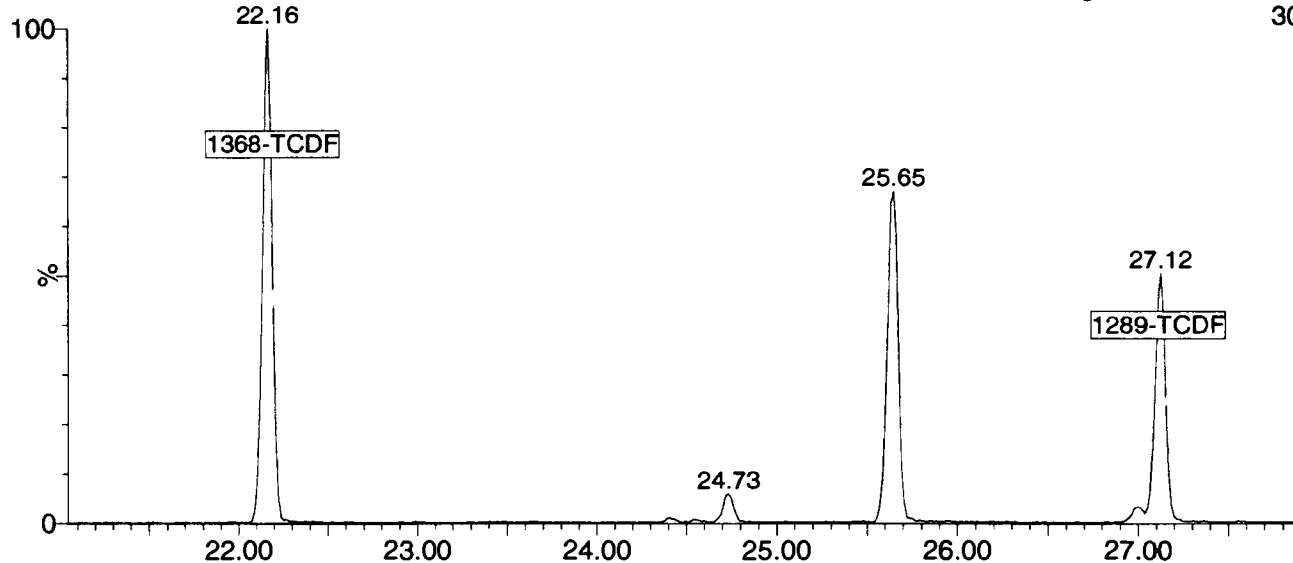
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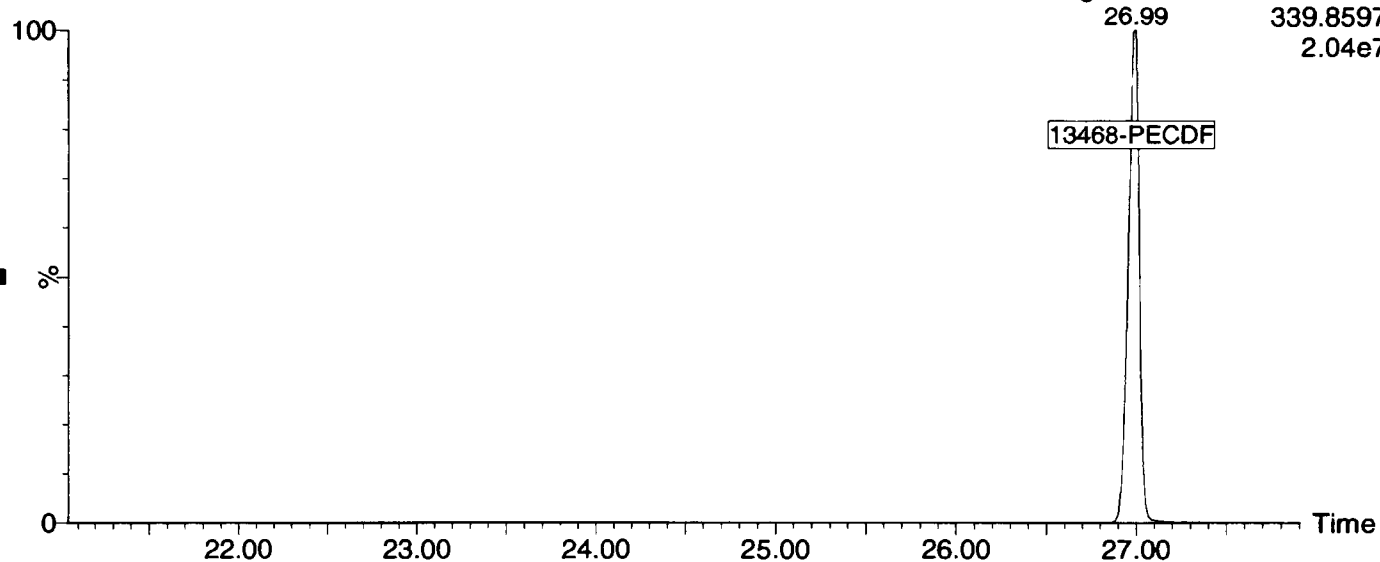
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303.9016  
3.91e6



13021103

1: Voltage SIR 15 Channels EI+  
339.8597  
2.04e7



13021103

100

28.66

12479-PECDD

2: Voltage SIR 11 Channels EI+

355.8546

1.02e7

31.38

31.76

12389-PECDD

%

0

28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50

13021103

100

29.77

31.11

32.14

12389-PECDF

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1.46e7

28.64

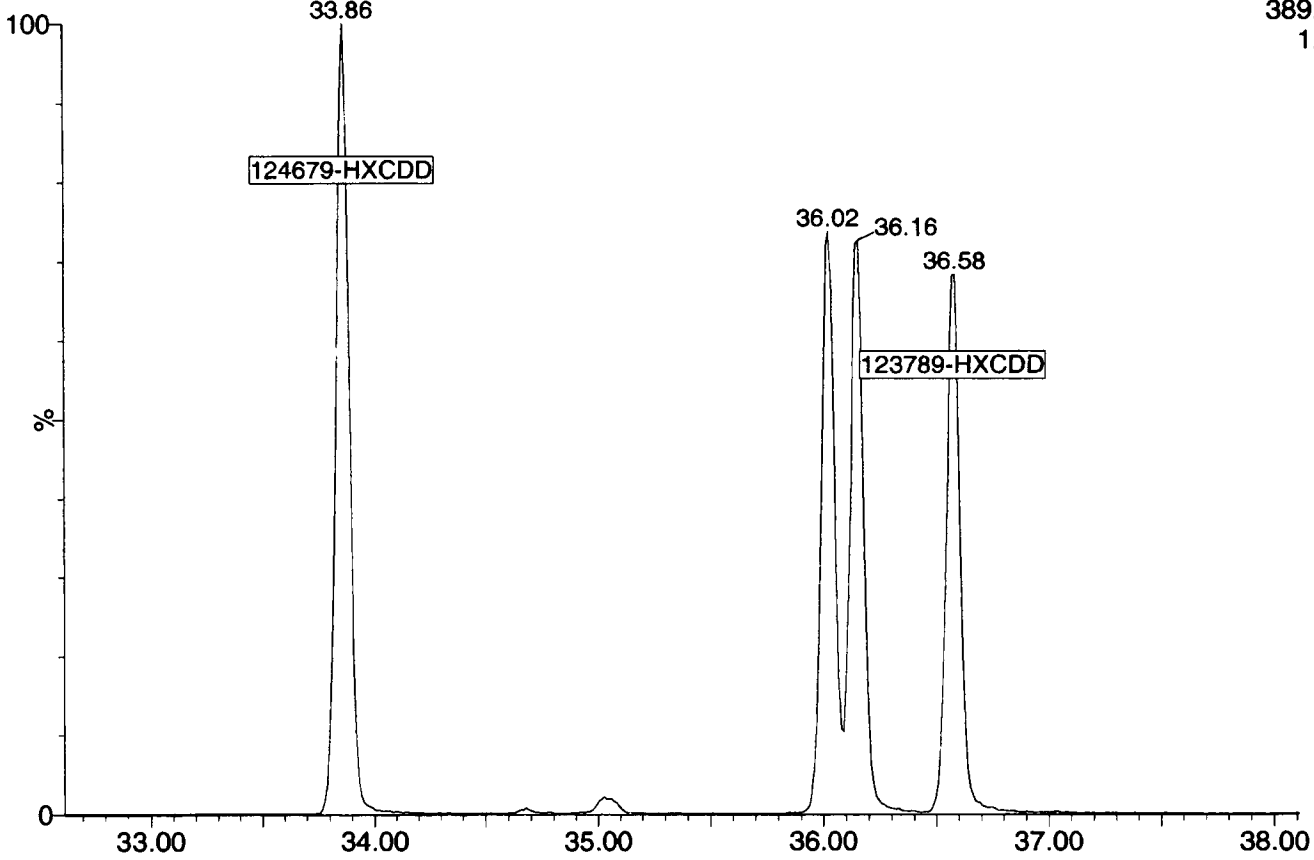
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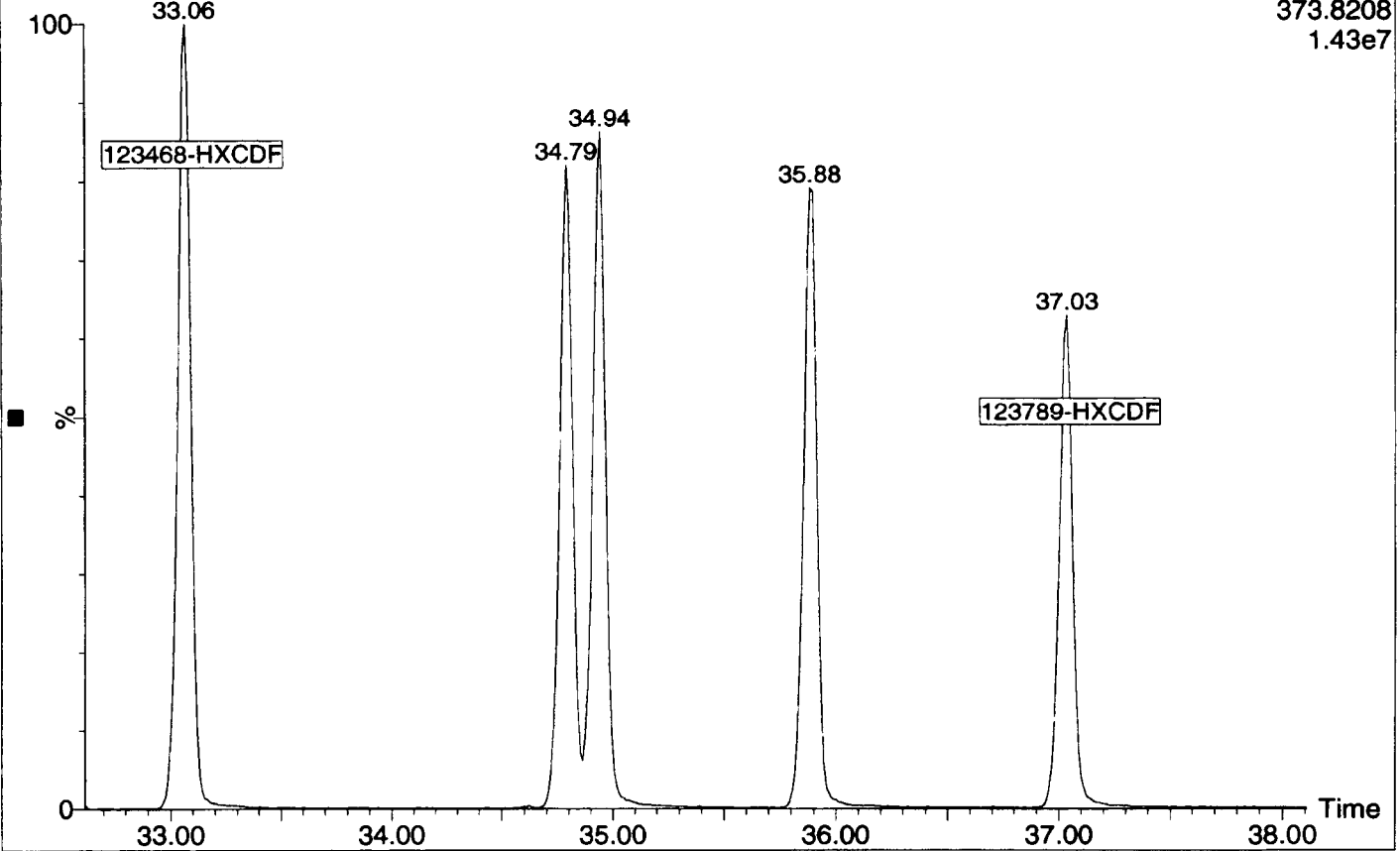
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13021103

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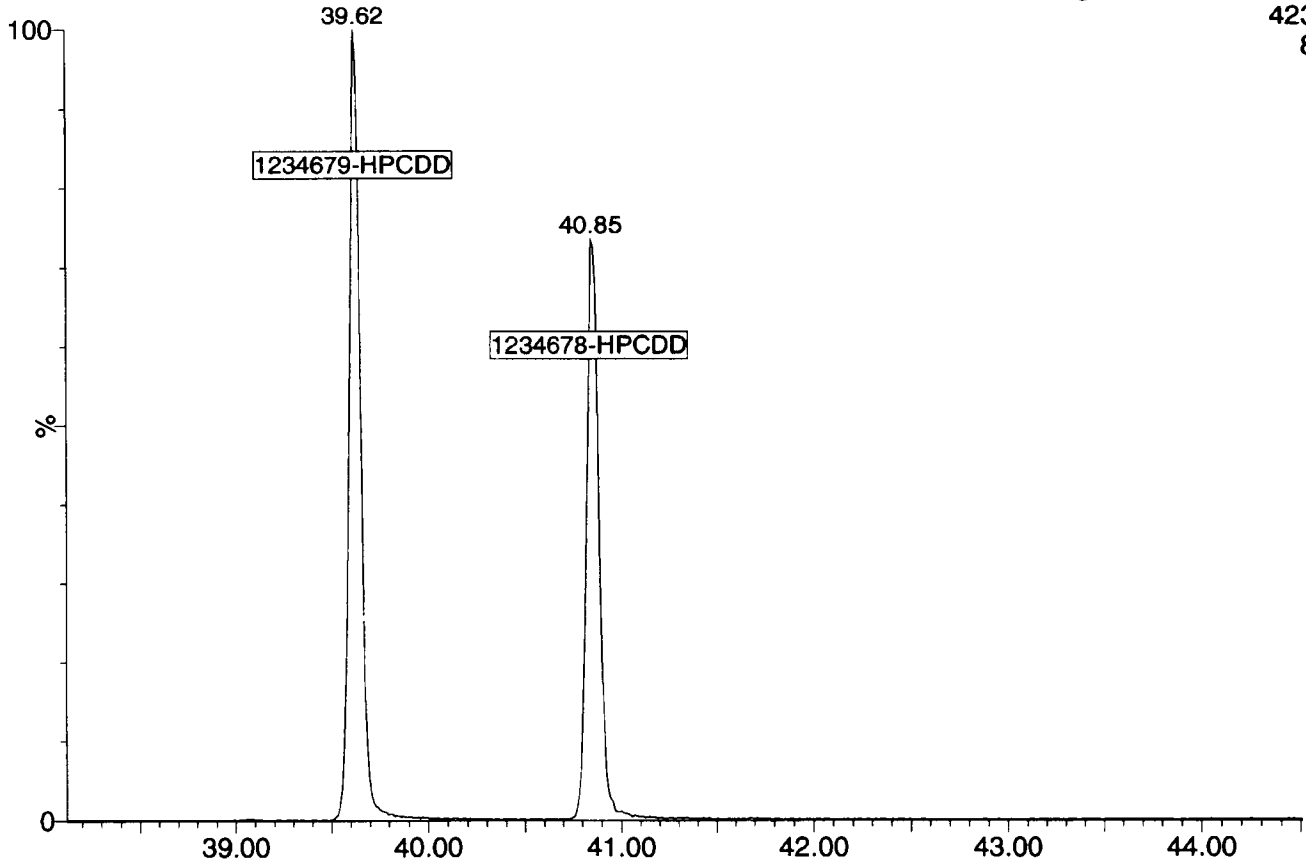


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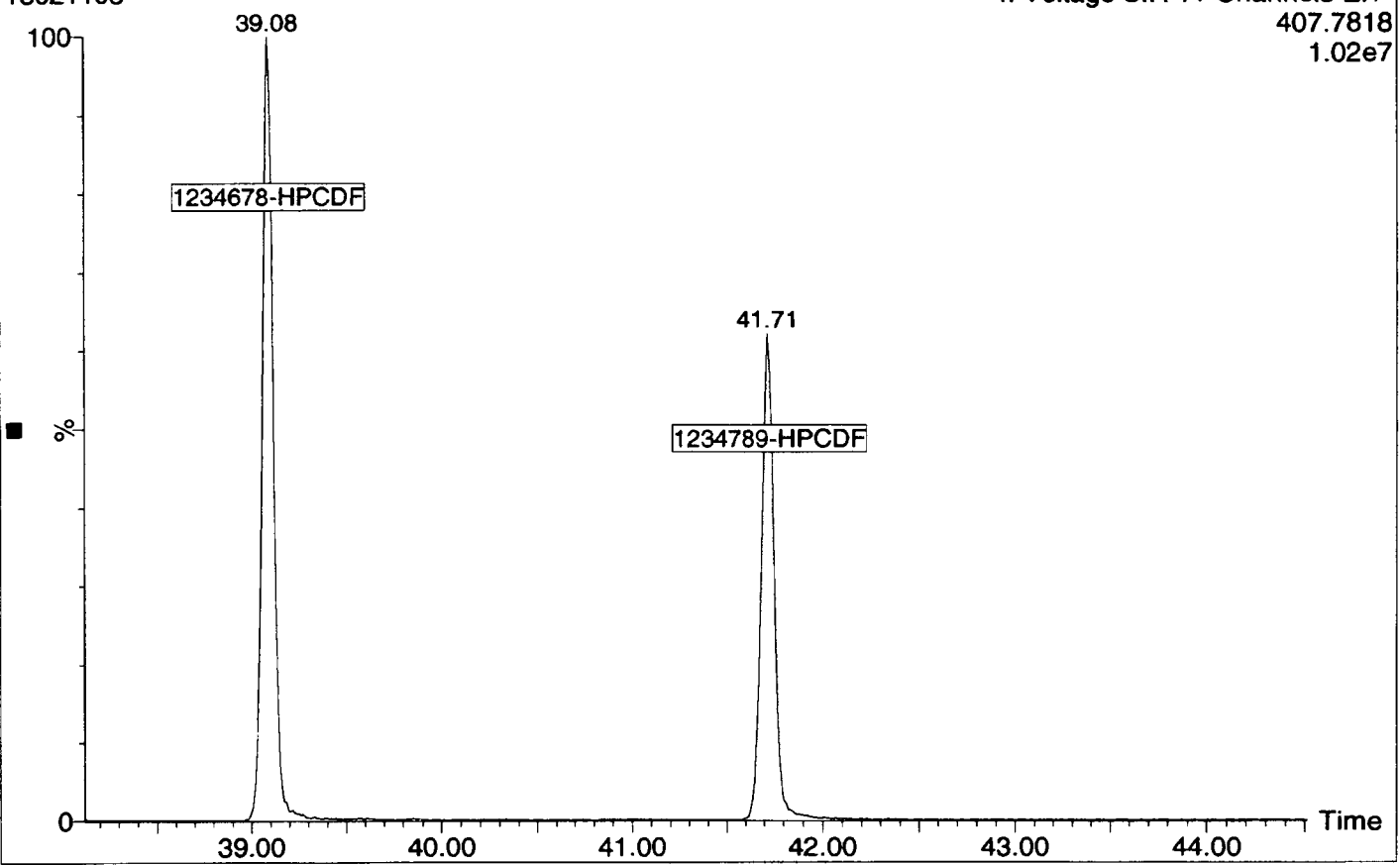


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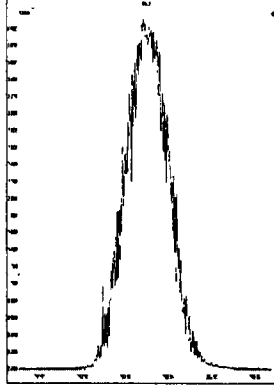
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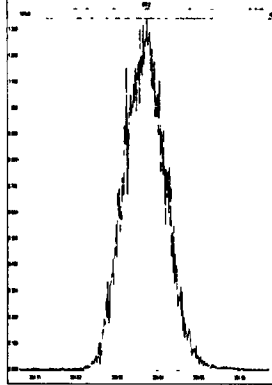


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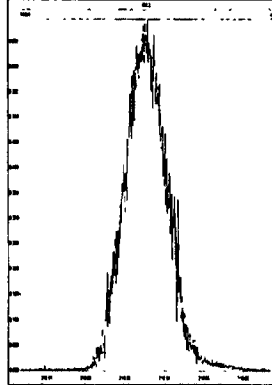
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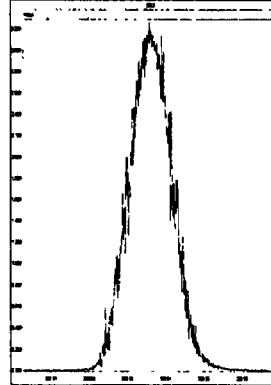
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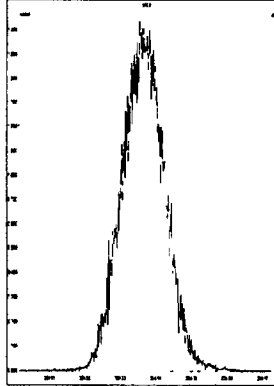
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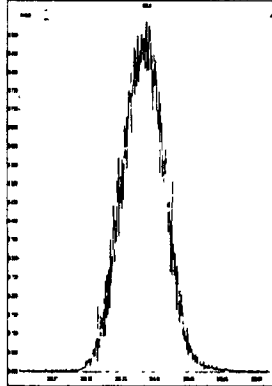
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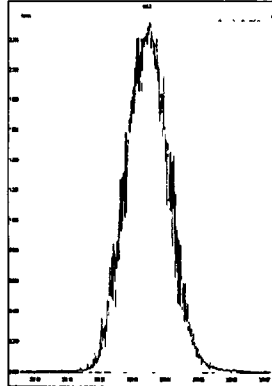
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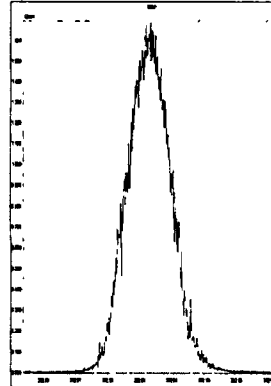
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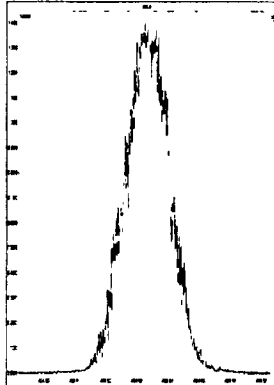
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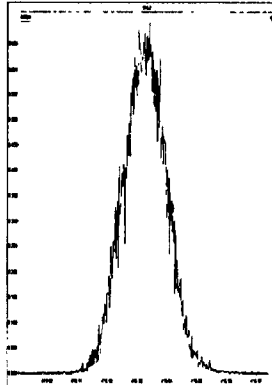
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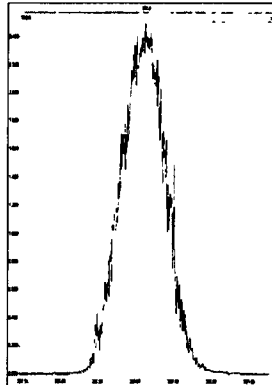
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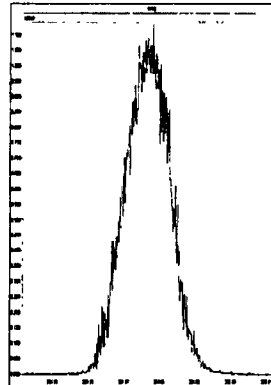
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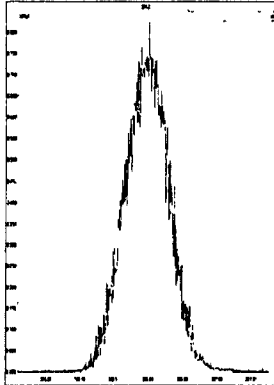
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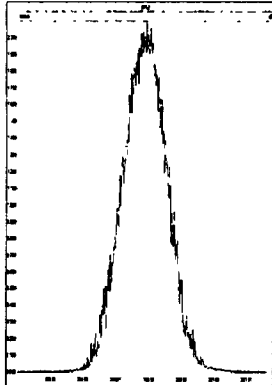
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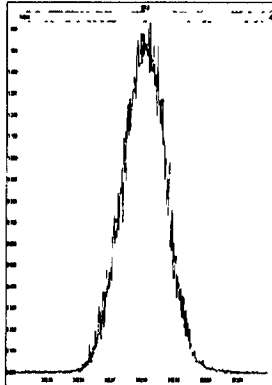
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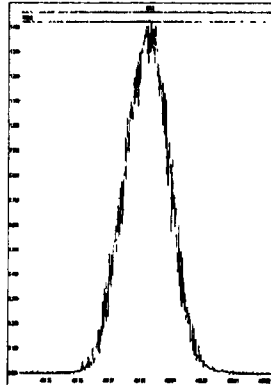
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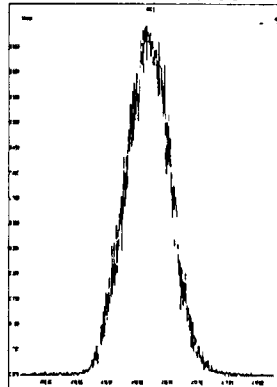
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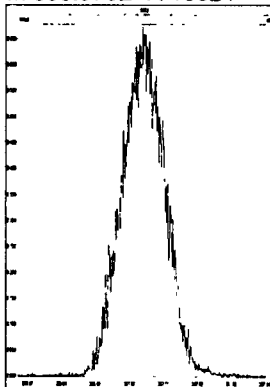


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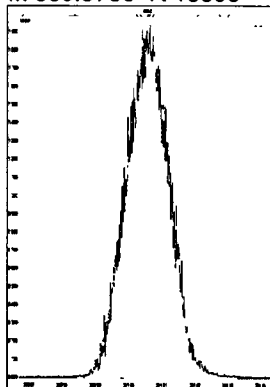
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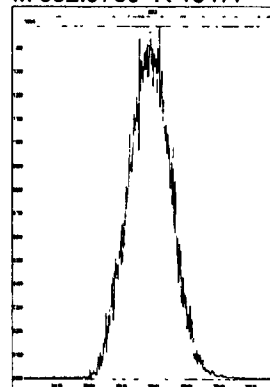
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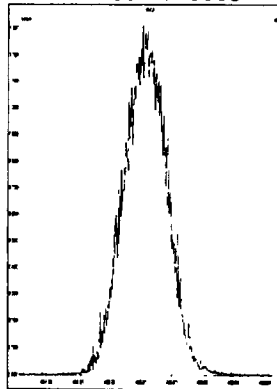
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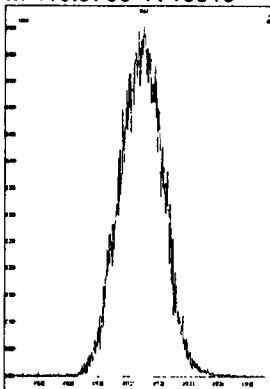
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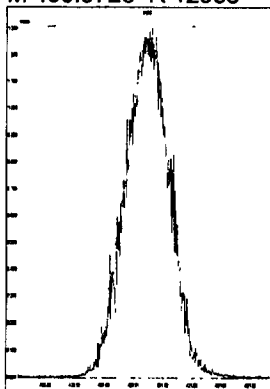
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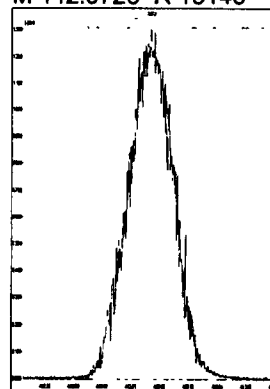
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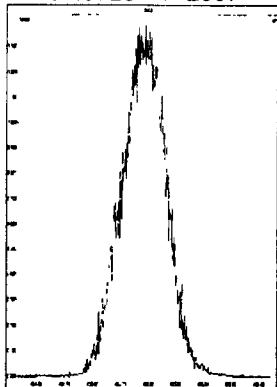
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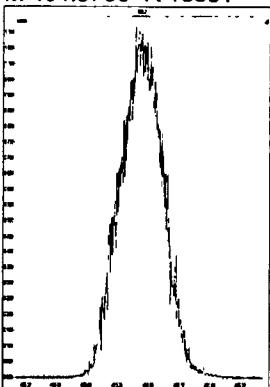
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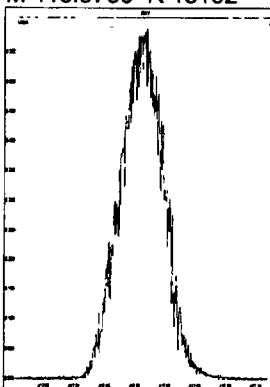
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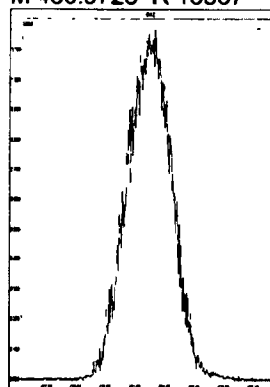
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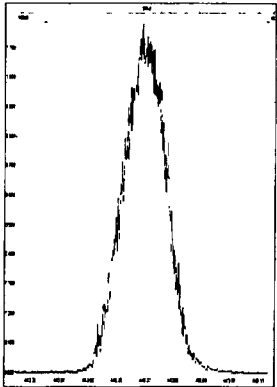
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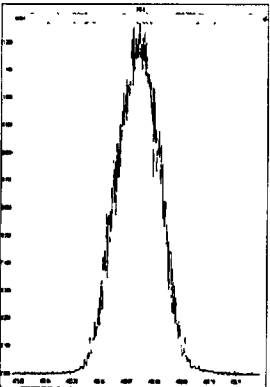
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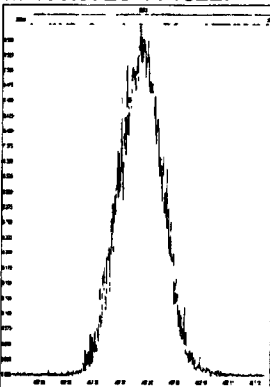
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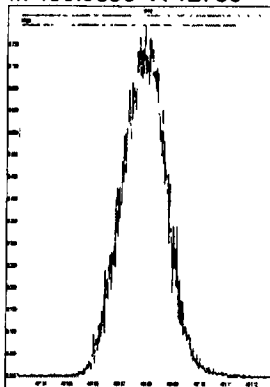
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M 466.9728 R 13227

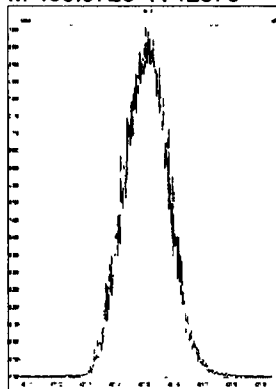


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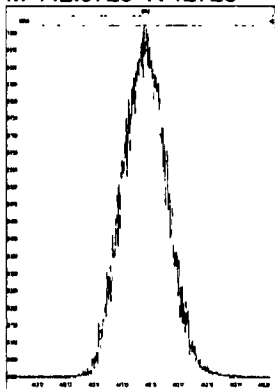


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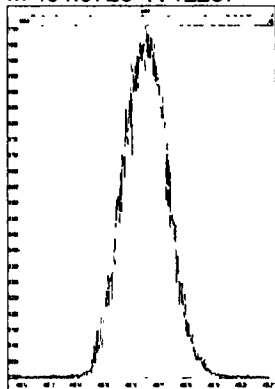
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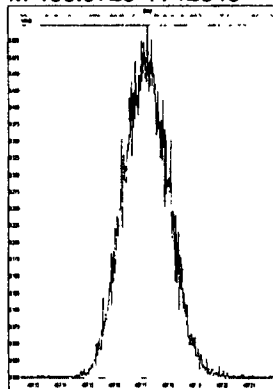
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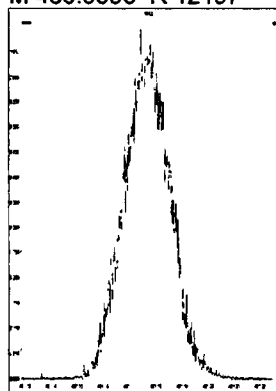
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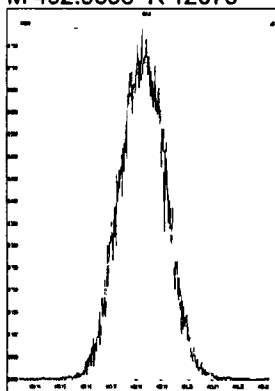
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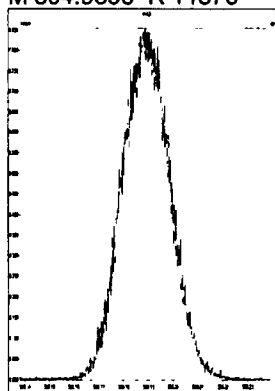
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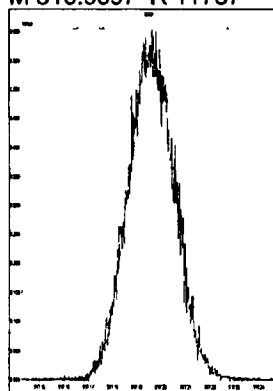
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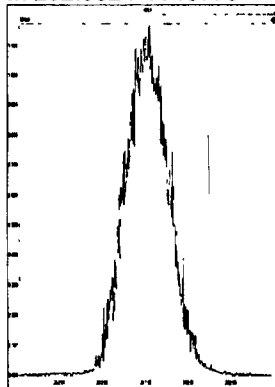


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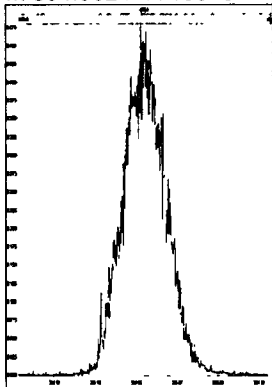


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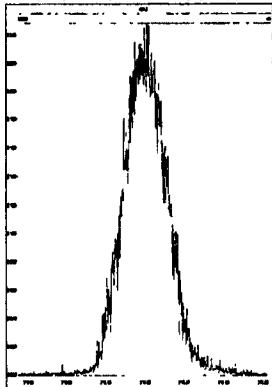
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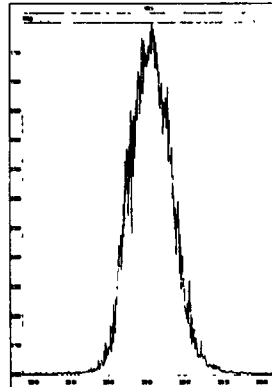
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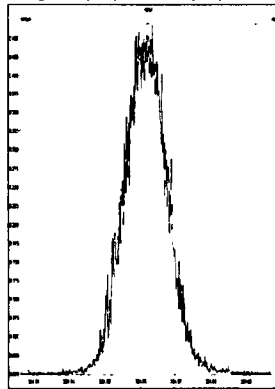
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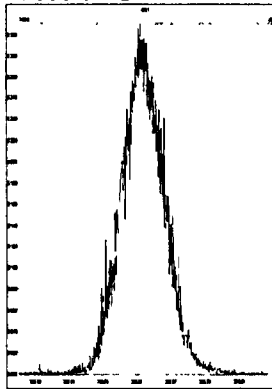
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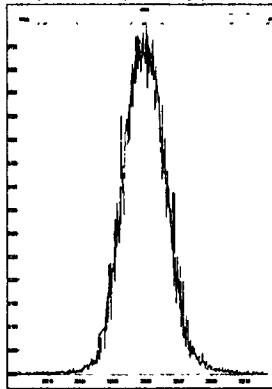
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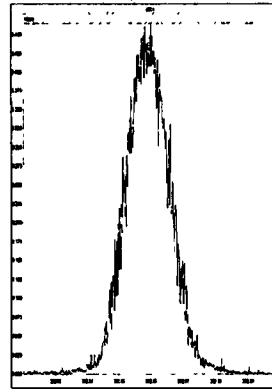
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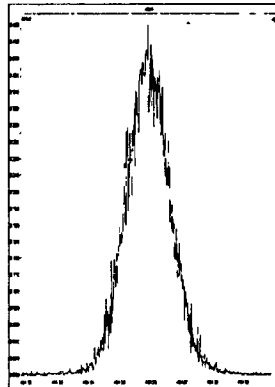
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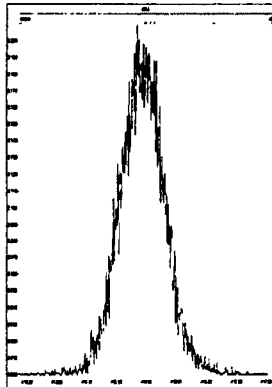
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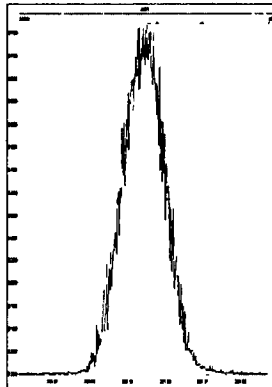
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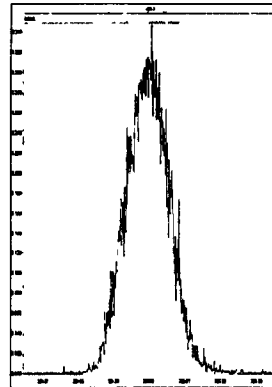
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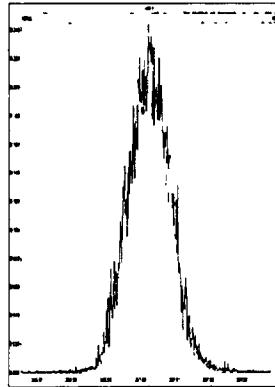
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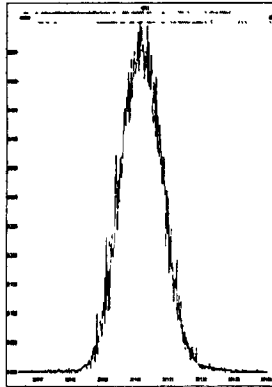
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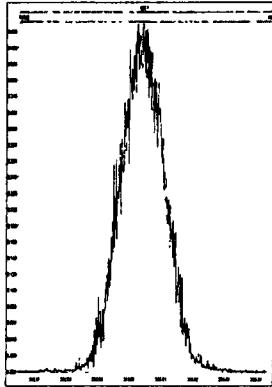
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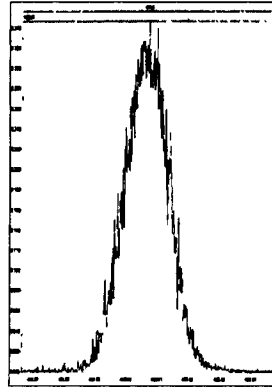
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M 392.9760 R 13021

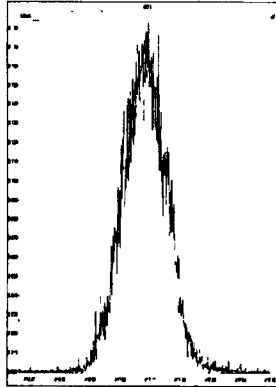


M 404.9760 R 12988

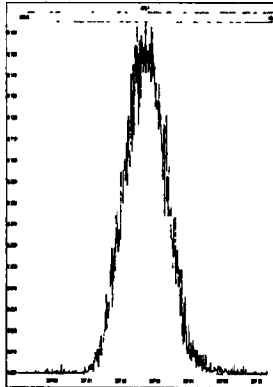


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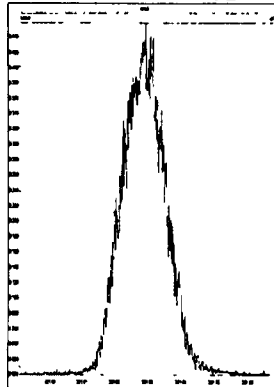
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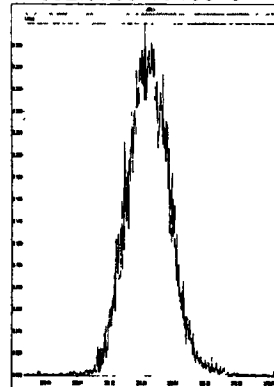
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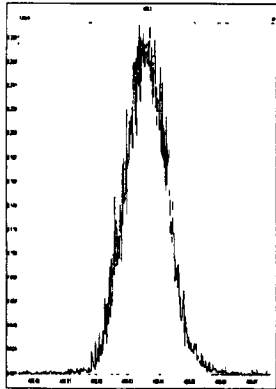
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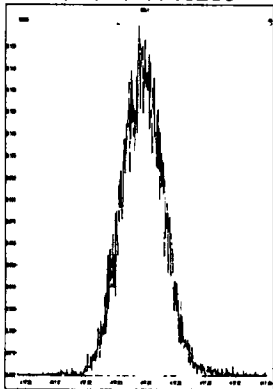
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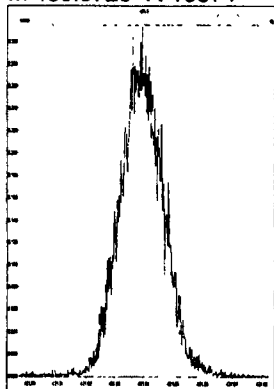
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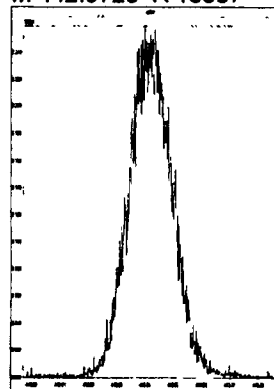
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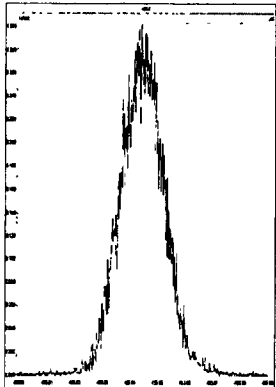
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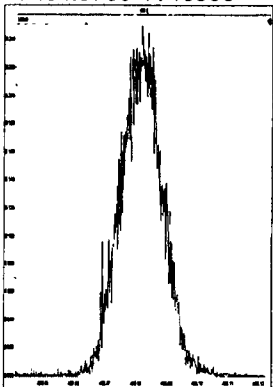
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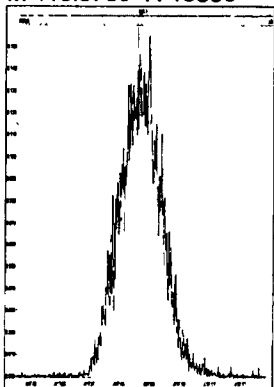
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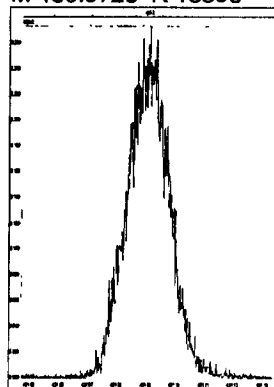
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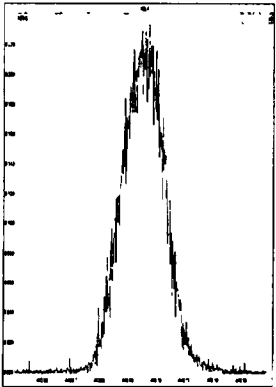
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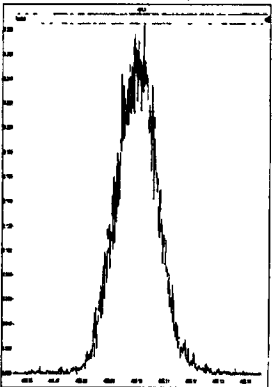
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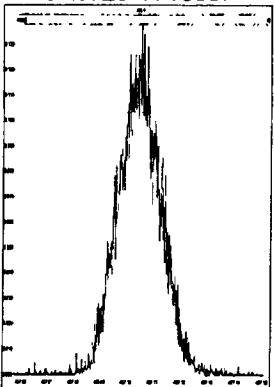
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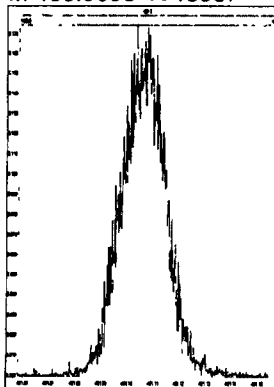
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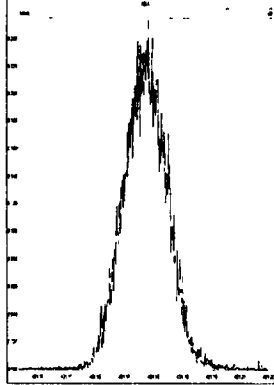


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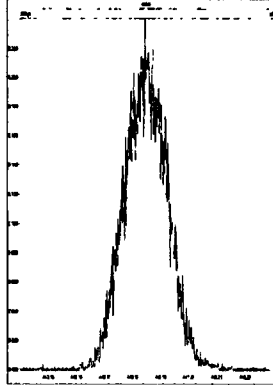


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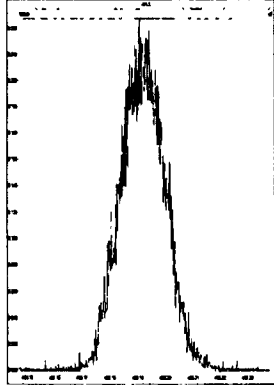
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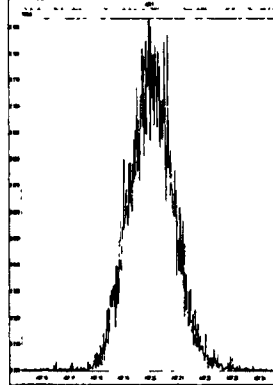
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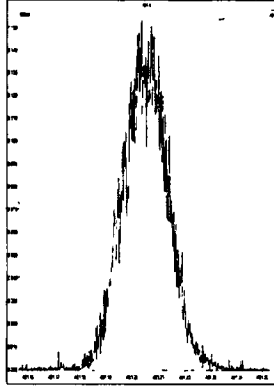
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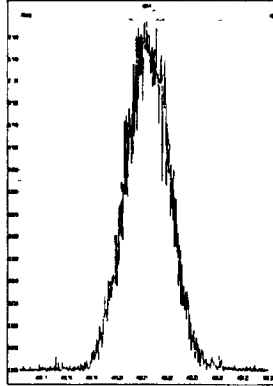
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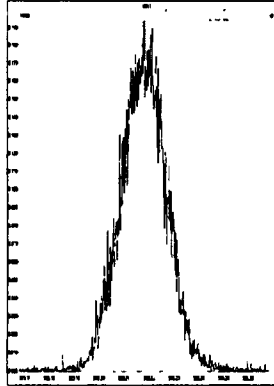
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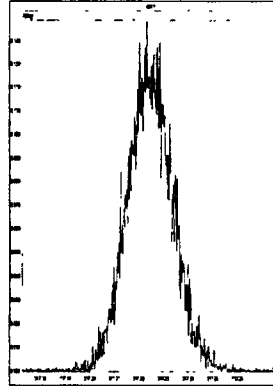
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M 516.9697 R 12724



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Callibration: P:\DIOXIN8290.PRO\CurveDB\13021105.CAL.cdb 12 Feb 2013 09:29:24

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

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2378-TCDF		25.845	1.001	2.40e3	2.75e3	0.921	0.871	0.770	35.4	NO	0.121
12378-PeCDF		29.775	1.000	9.86e3	6.27e3	0.912	1.572	1.550	139.5	NO	0.500
23478-PeCDF		31.123	1.000	9.83e3	6.84e3	0.943	1.479	1.550	135.6	NO	0.517
123478-HxCDF		34.795	1.001	8.10e3	6.71e3	1.101	1.207	1.240	120.1	NO	0.516
234678-HxCDF		35.891	1.001	8.17e3	6.07e3	1.073	1.346	1.240	131.8	NO	0.506
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123789-HxCDF		37.042	1.001	6.00e3	5.49e3	1.017	1.092	1.240	87.8	NO	0.518
1234678-HpCDF		39.092	1.000	6.60e3	6.91e3	1.238	0.955	1.050	134.7	NO	0.504
1234789-HpCDF		41.712	1.000	4.53e3	4.95e3	1.224	0.914	1.050	70.2	NO	0.506
OCDF		46.849	1.006	7.04e3	8.09e3	1.162	0.870	0.890	108.3	NO	0.989
2378-TCDD		26.287	1.001	1.67e3	2.24e3	1.106	0.745	0.770	22.1	NO	0.124
12378-PeCDD		31.386	1.001	6.62e3	4.09e3	1.001	1.620	1.550	92.7	NO	0.497
123478-HxCDD		36.034	1.001	5.49e3	4.12e3	0.978	1.333	1.240	63.7	NO	0.469
123678-HxCDD		36.154	1.000	5.39e3	4.38e3	0.929	1.230	1.240	64.3	NO	0.484
123789-HxCDD		36.582	1.012	5.37e3	4.33e3	0.904	1.242	1.240	64.2	NO	0.503
1234678-HpCDD		40.857	1.000	4.73e3	4.37e3	1.029	1.083	1.050	69.3	NO	0.523
OCDD		46.598	1.000	6.94e3	7.42e3	1.011	0.935	0.890	44.8	NO	1.078
13C-2378-TCDF		25.630	1.007	2.02e6	2.59e6	1.522	0.779	0.770	9993.6	NO	97.771
13C-12378-PeCDF		29.764	1.169	2.15e6	1.38e6	1.185	1.564	1.550	6635.5	NO	96.132
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13C-123678-HxCDF		34.927	0.955	9.54e5	1.84e6	1.383	0.520	0.510	2984.1	NO	99.887
13C-234678-HxCDF		35.870	0.981	8.98e5	1.72e6	1.283	0.521	0.510	2802.9	NO	101.155
13C-123789-HxCDF		37.021	1.012	7.53e5	1.43e6	1.099	0.527	0.510	2269.5	NO	98.251
13C-1234678-HpCDF		39.081	1.069	6.84e5	1.50e6	1.070	0.443	0.440	4590.4	NO	100.219
13C-1234789-HpCDF		41.701	1.140	4.74e5	1.09e6	0.774	0.448	0.440	2858.4	NO	98.022
13C-1234-TCDD		25.451	0.000	1.37e6	1.74e6	1.000	0.787	0.770	4456.3	NO	100.000
13C-2378-TCDD		26.272	1.032	1.29e6	1.61e6	0.943	0.784	0.770	4224.1	NO	98.032
13C-12378-PeCDD		31.365	1.232	1.32e6	8.37e5	0.715	1.572	1.550	11173.2	NO	97.068
13C-123478-HxCDD		36.012	0.985	1.17e6	9.28e5	1.032	1.264	1.240	6424.3	NO	100.562
13C-123678-HxCDD		36.144	0.988	1.21e6	9.65e5	1.076	1.252	1.240	6475.8	NO	99.918
13C-1234678-HpCDD		40.846	1.117	8.58e5	8.33e5	0.838	1.031	1.050	5954.2	NO	99.957
13C-OCDD		46.580	1.274	1.25e6	1.38e6	0.675	0.904	0.890	5214.8	NO	193.133

Quantity Sample Summary Report

MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211C.qld

Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

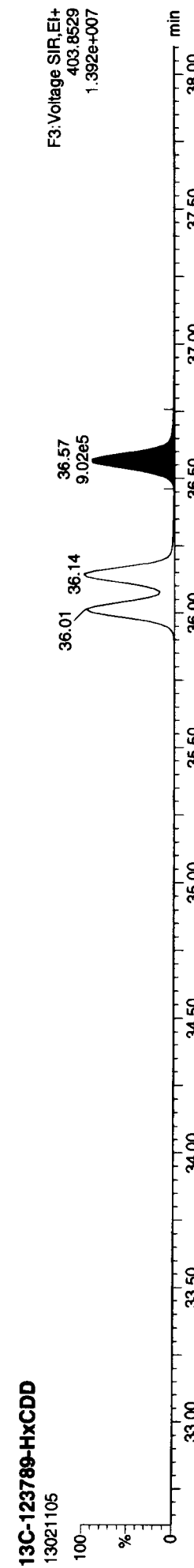
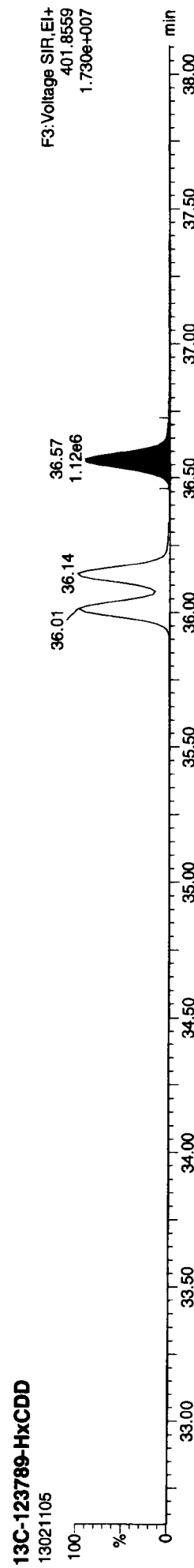
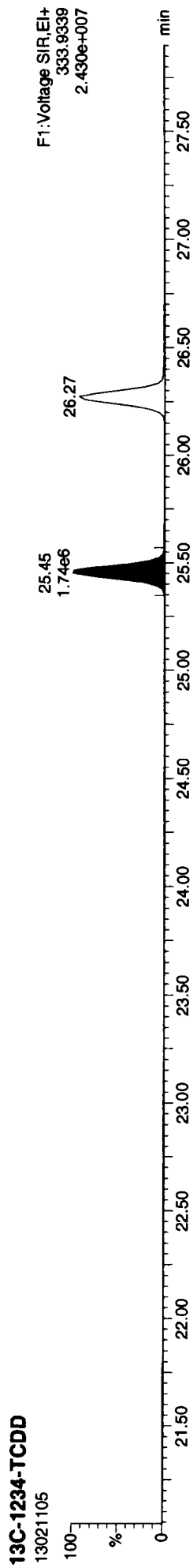
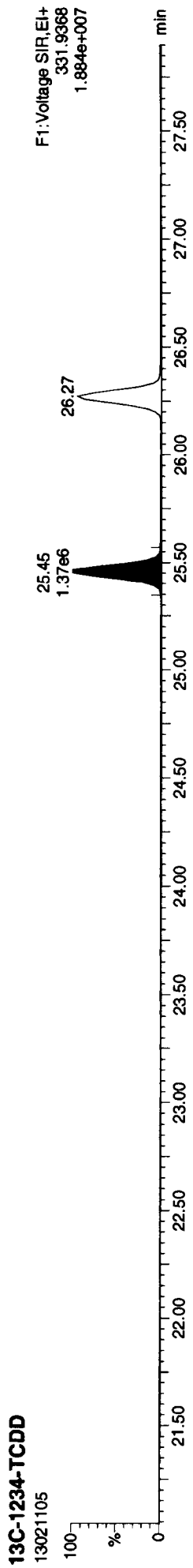
ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

	36.571	0.000	1.12e6	9.02e5	1.000	1.239	1.240	5907.3	NO	100.000
13C-123789-HxCDD										0.156
Total-tetrafurans			2.97e3		0.921					
Total-penta1			0.00e0							
Total-pentafurans			2.02e4		0.927					1.044
Total-hexafurans			3.03e4		1.062					2.026
Total-heptafurans			1.11e4		1.231					1.010
Total-Furans			7.16e4		1.065					5.225
Total-tetraoxins			3.38e3		1.106					0.203
Total-pentadioxins			7.13e3		1.001					0.528
Total-hexadioxins			1.72e4		0.937					1.517
Total-heptadioxins			5.16e3		1.029					0.567
Total-Dioxins			3.98e4		0.994					3.894
Total-TEQ			1.11e5							9.119
37CL-2378-TCDD	26.287	1.033	3.43e3		1.051			26.4		0.105
FUNCTION1 PFK			4.49e6							0.000
FUNCTION2 PFK			1.03e7							
FUNCTION3 PFK			0.00e0							
FUNCTION4 PFK			5.11e5							
FUNCTION5 PFK			0.00e0							
FUNCTION1 HXCDPE			0.00e0							0.000
FUNCTION1 HPCDPE			9.66e2							
FUNCTION2 HPCDPE			9.72e2							0.000
FUNCTION3 OCDPE			0.00e0							
FUNCTION4 NCDPE			0.00e0							
FUNCTION5 DCDPE			0.00e0							

Dataset: P:\DIOXIN8290.PRO\13021105.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurvedB\130211CAL.cdb 12 Feb 2013 09:29:24

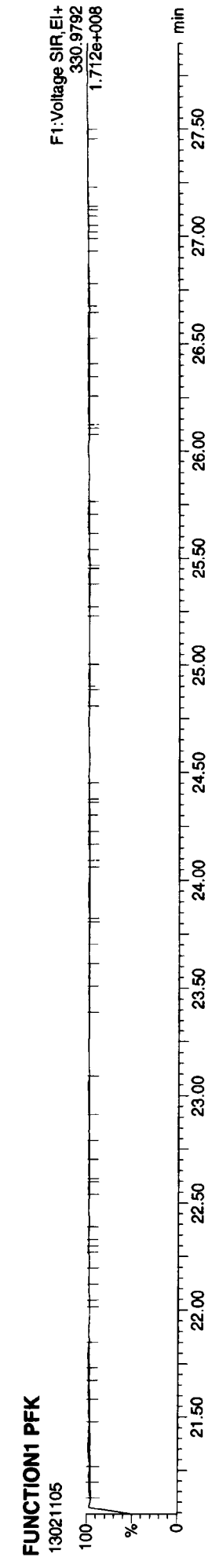
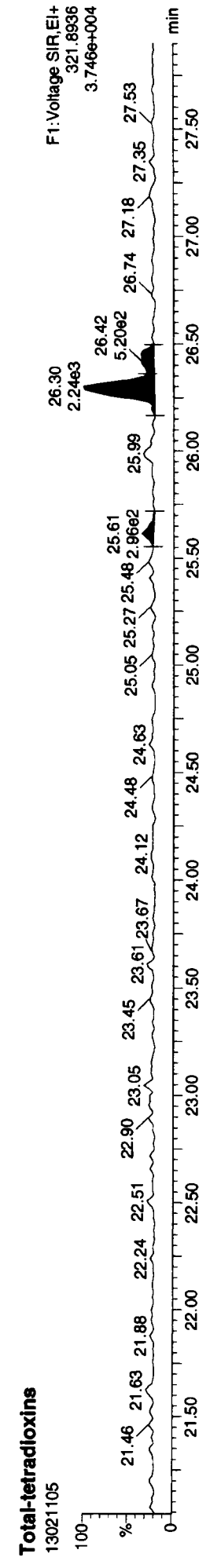
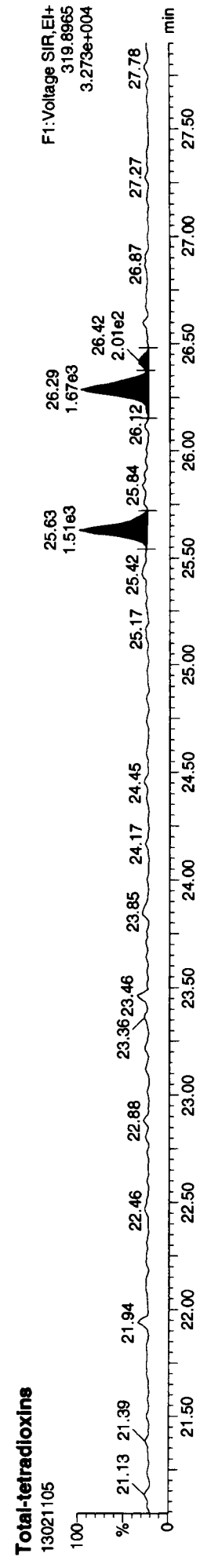
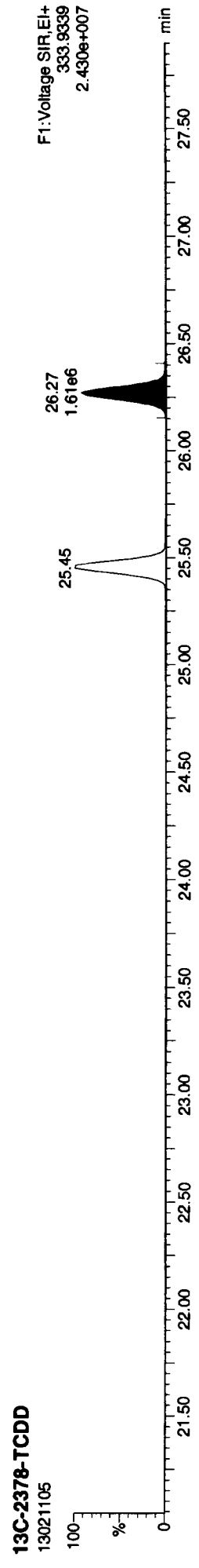
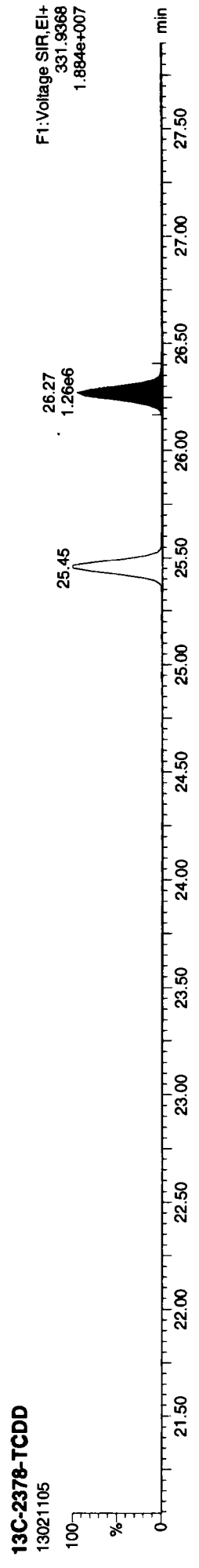
ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk





Quantify Sample Report **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\13021105.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

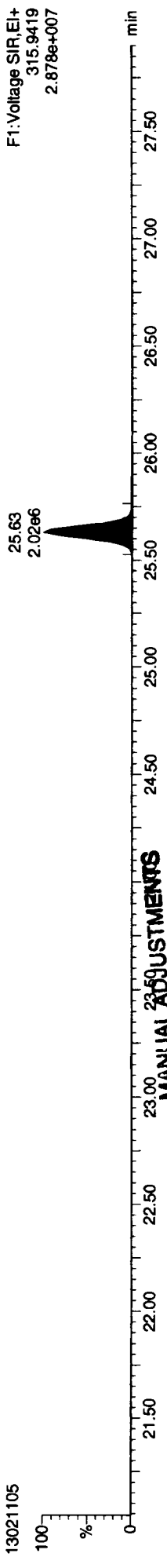


5120 99977

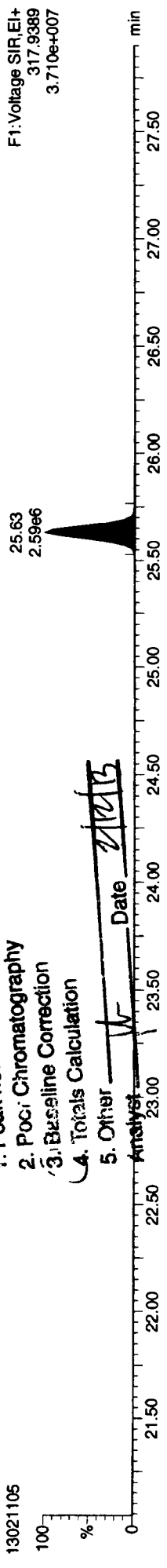
Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



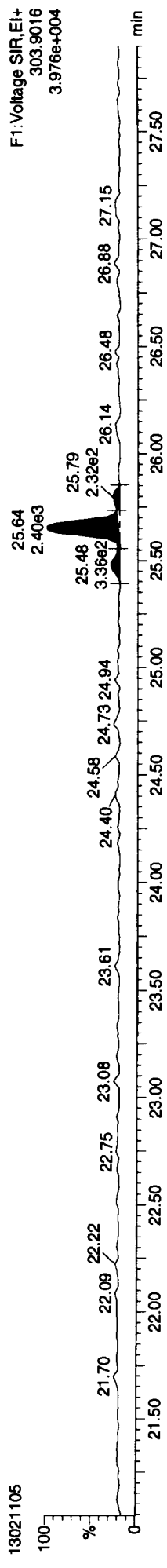
13C-2378-TCDF



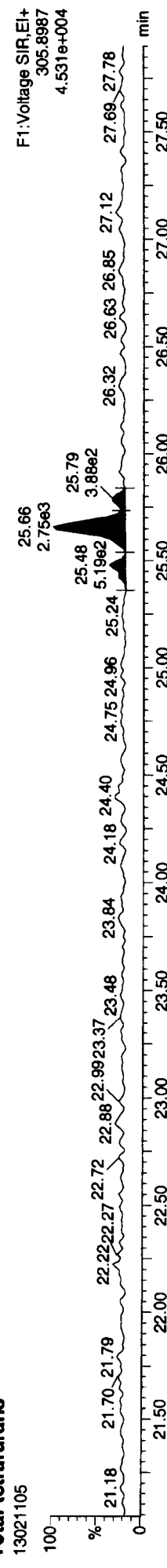
- 1. Peak not found
- 2. POC Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other

Analyser: PK Date: 11/2/13

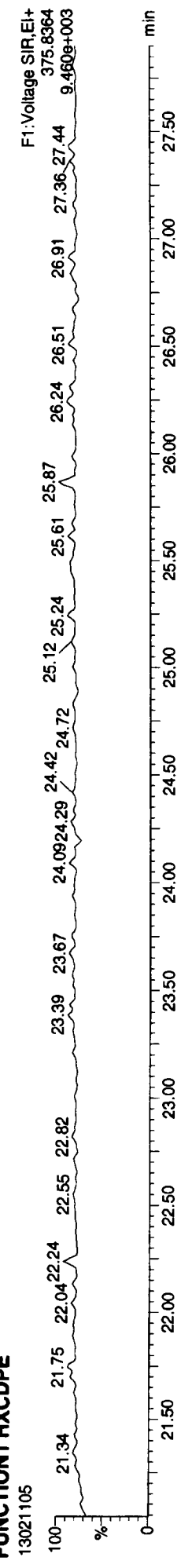
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE



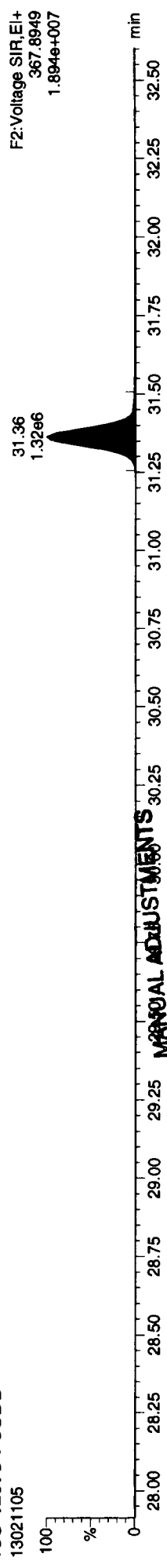
13021105 09:35:49

Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

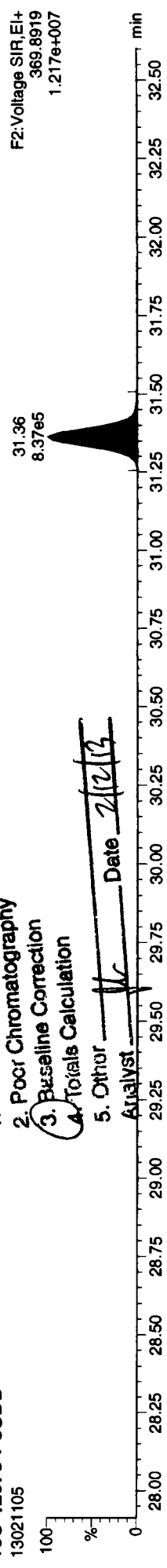
ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD  
13021105

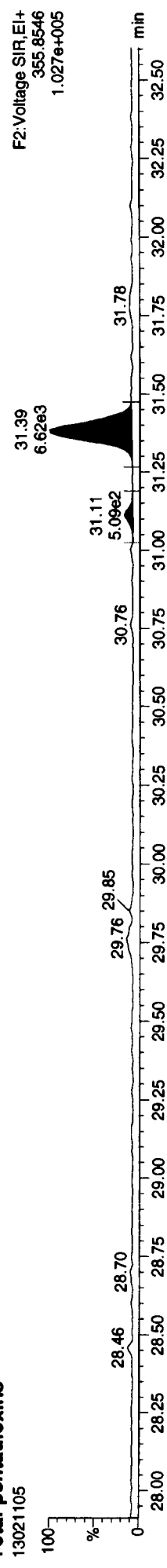


13C-12378-PeCDD  
13021105

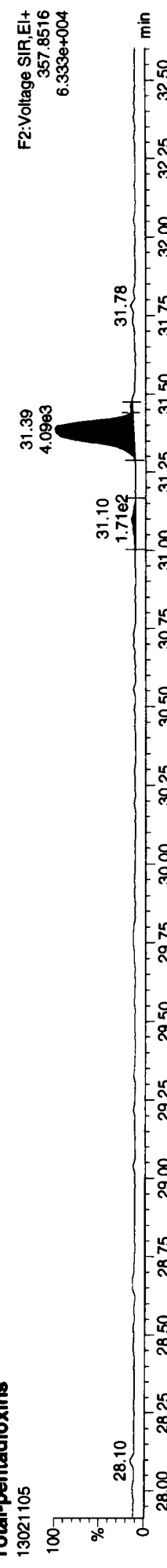
- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other



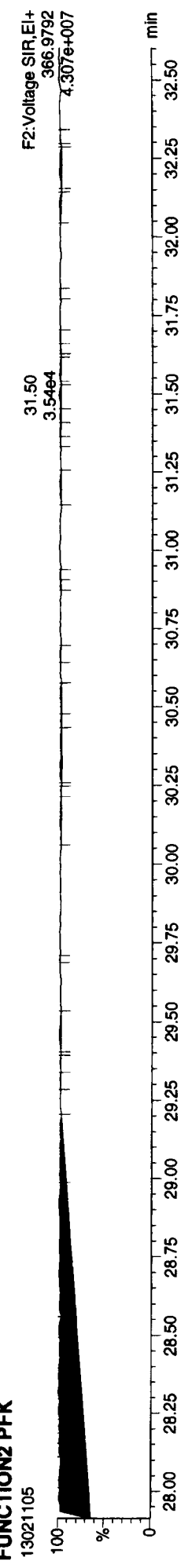
Total-pentadioxins  
13021105



Total-pentadioxins  
13021105



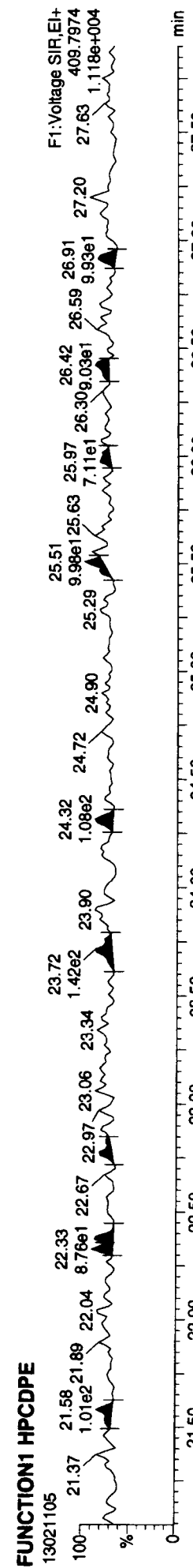
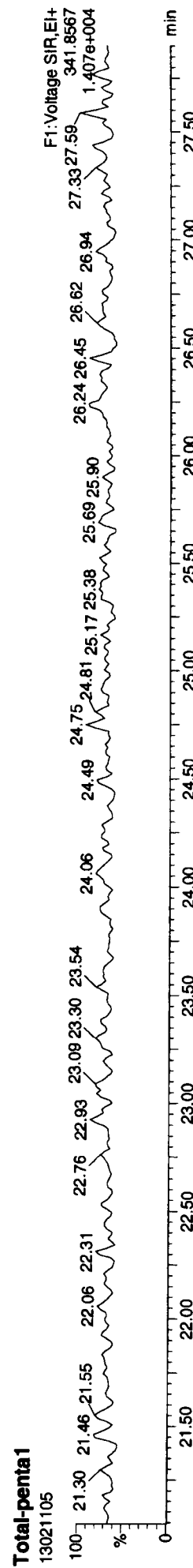
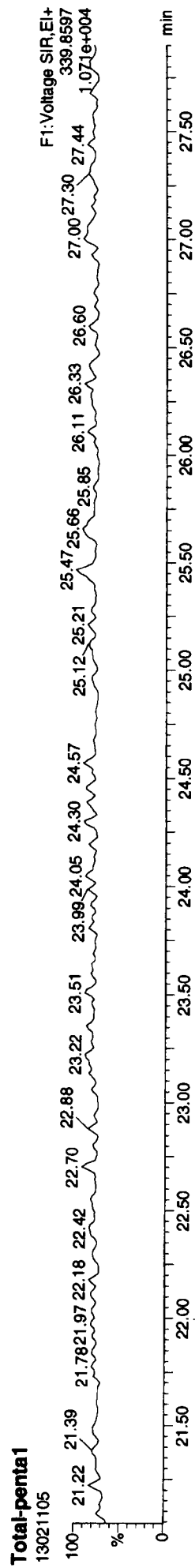
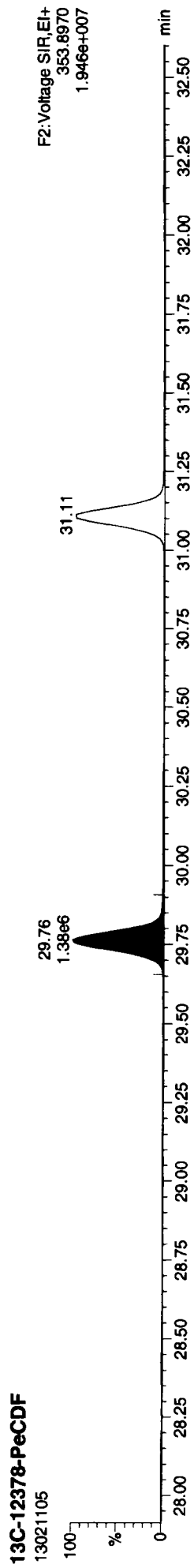
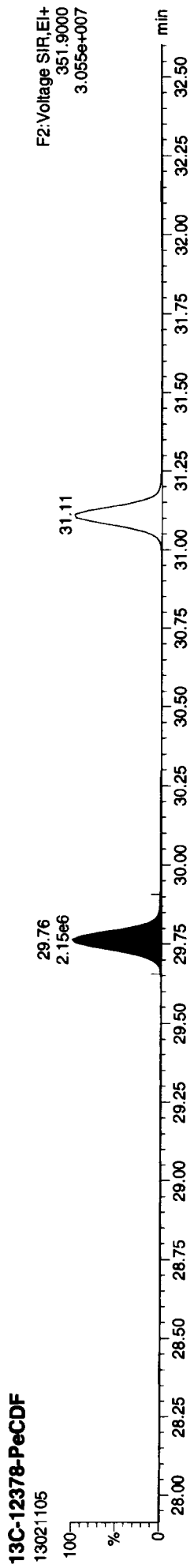
FUNCTION2 PFK  
13021105



13021105 095570

Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

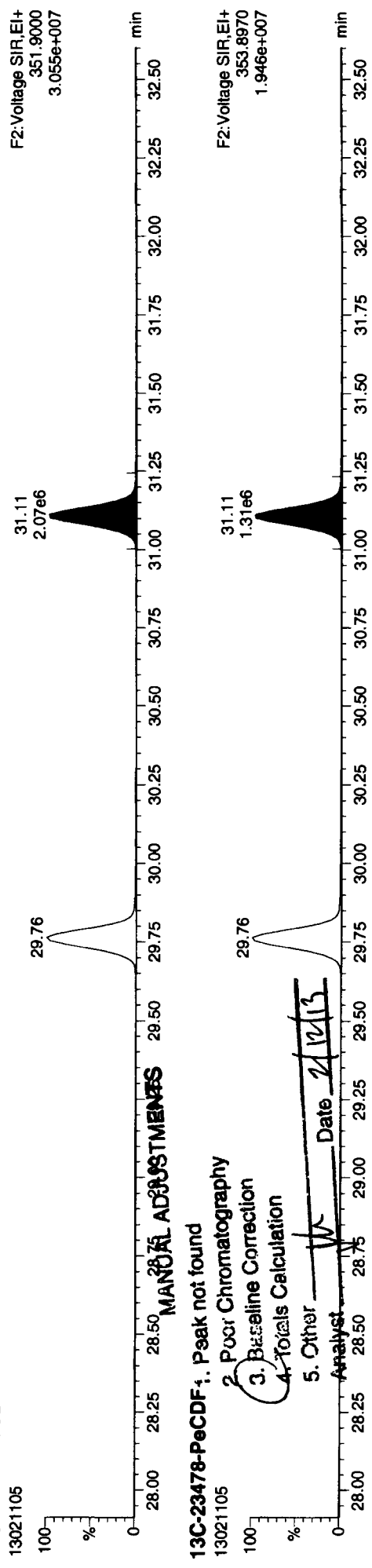
ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

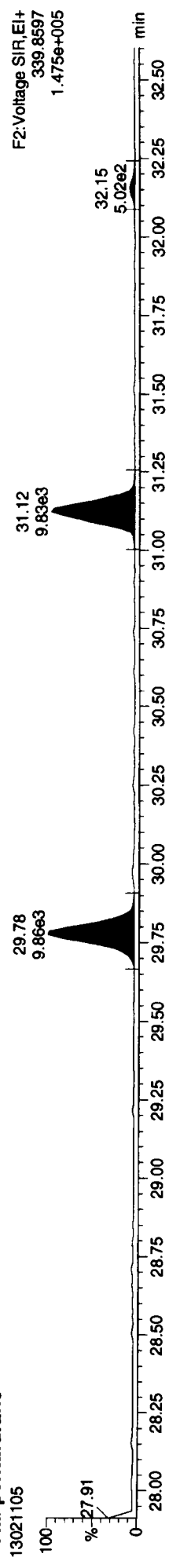
ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF  
13021105

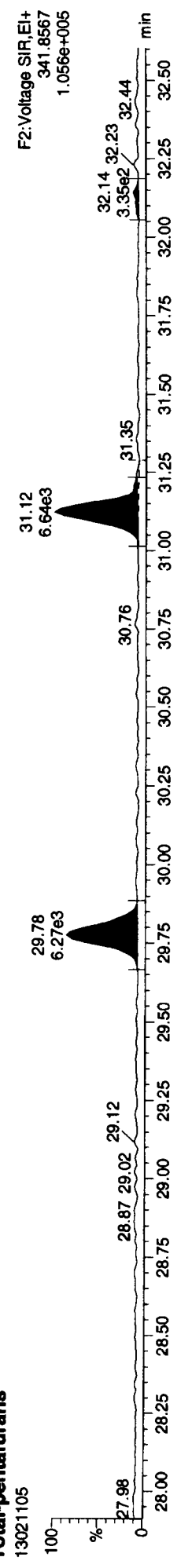


13C-23478-PeCDF: Peak not found  
 1. Poor Chromatography  
 2. Baseline Correction  
 3. Totals Calculation  
 4. Other  
 Analyst: [Signature] Date: 2/12/13

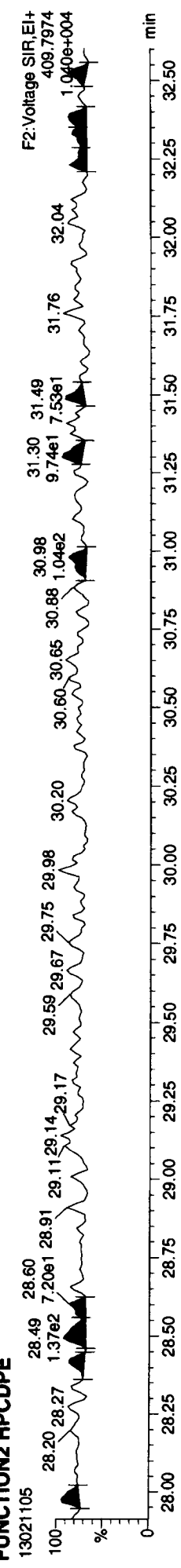
Total-pentafurans  
13021105



Total-pentafurans  
13021105



FUNCTION2 HPCDPE  
13021105

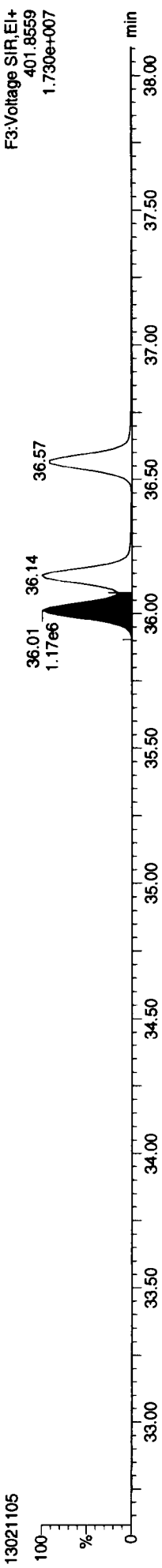


Quantity Sample Report **Maeslynx 4.1 SCN 714**

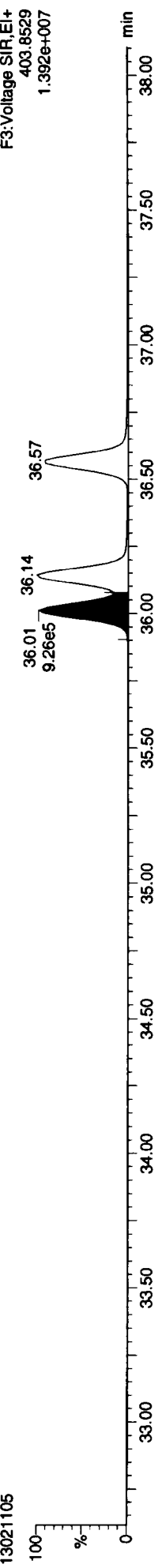
Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

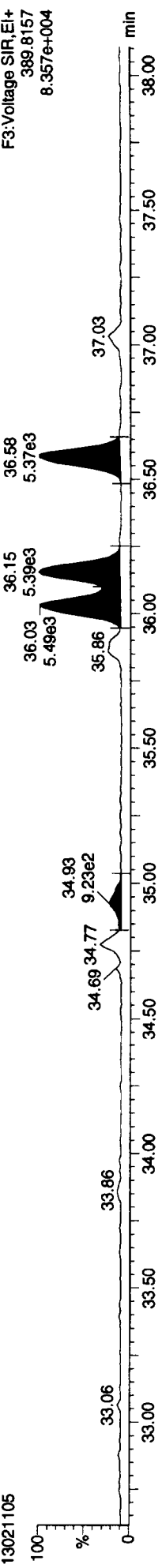
**13C-123478-HxCDD**



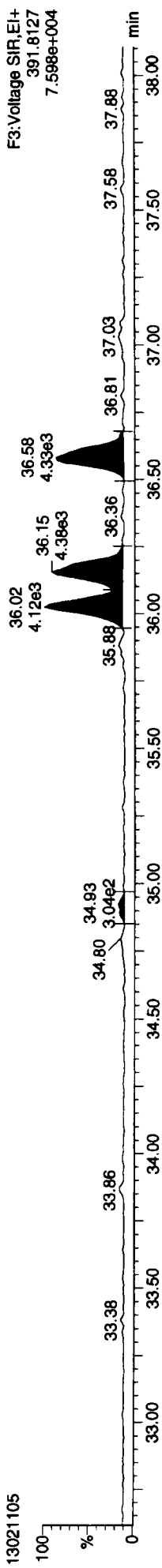
**13C-123478-HxCDD**



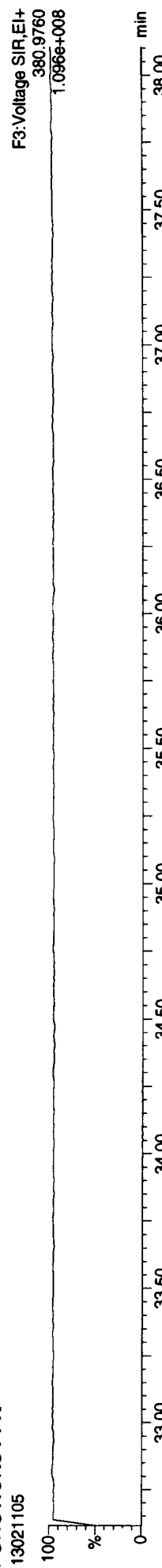
**Total-hexadioxins**



**Total-hexadioxins**



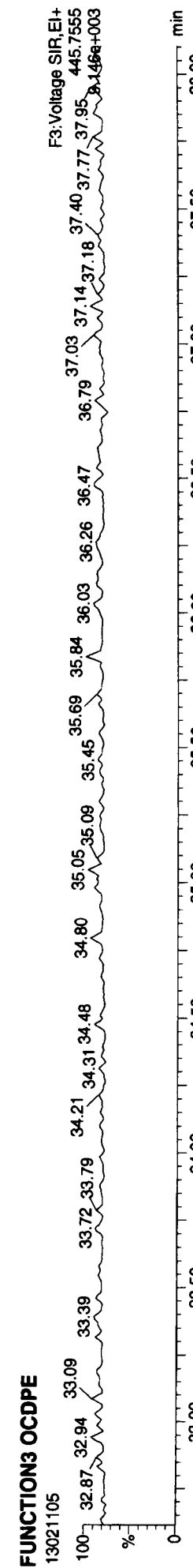
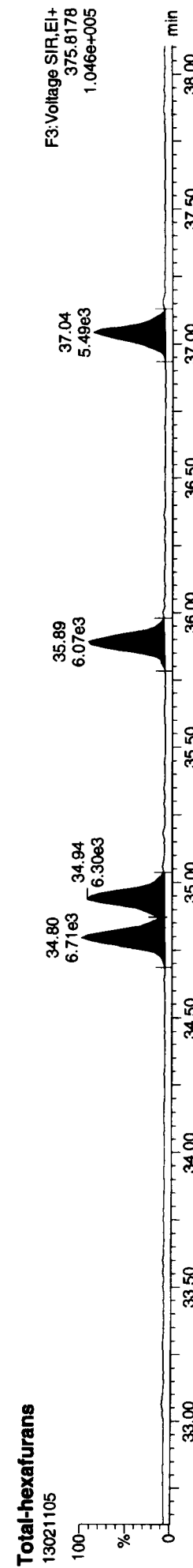
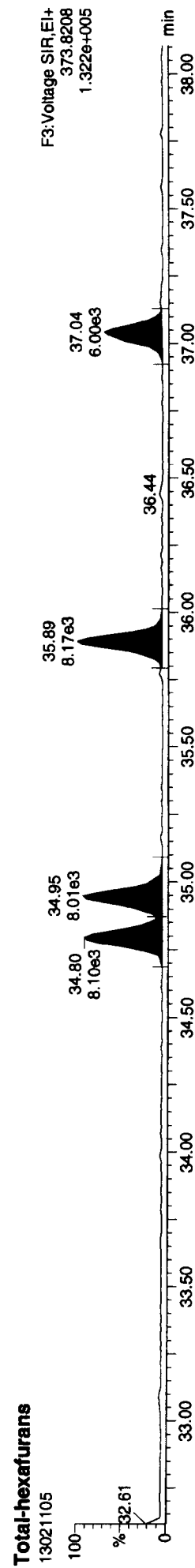
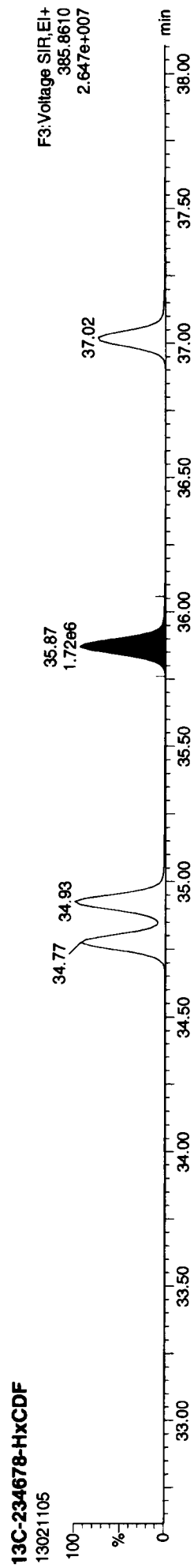
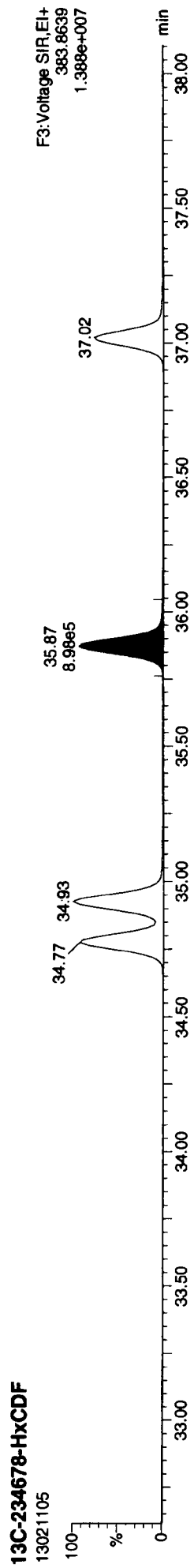
**FUNCTION3 PFK**



Quantity Sample Report MassLynx 4.1 SCN 714

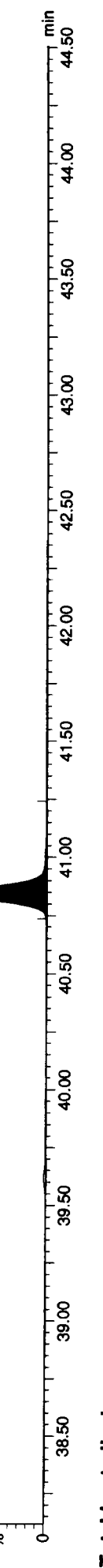
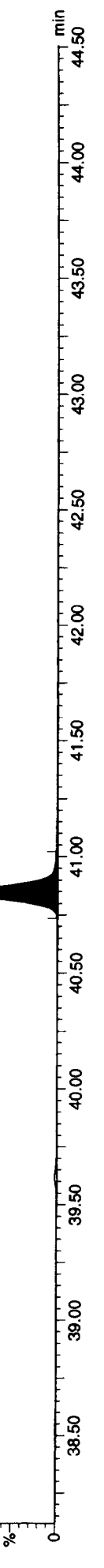
Dataset: P:\D\OXIN8290.PRO\13021105.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

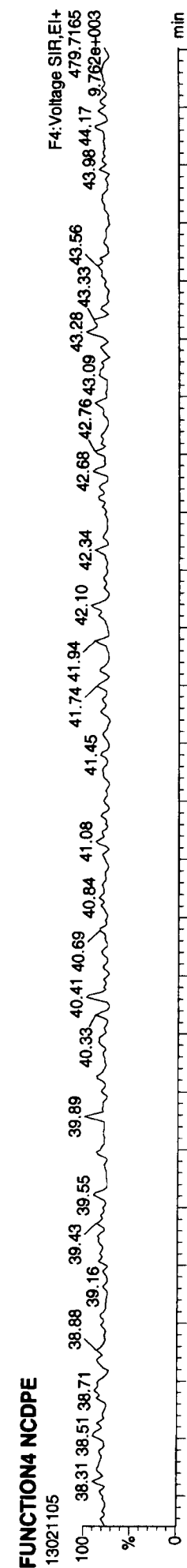
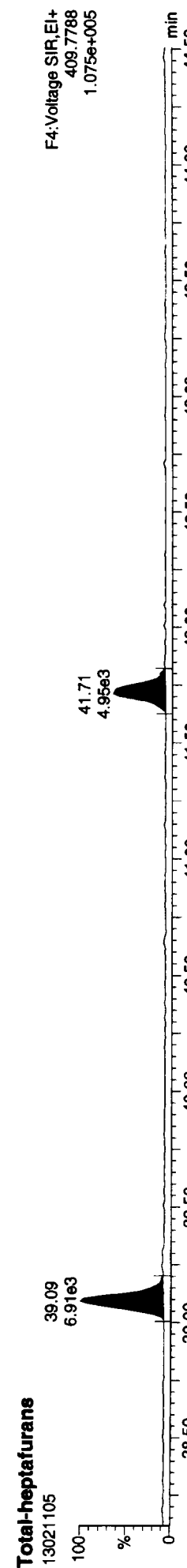
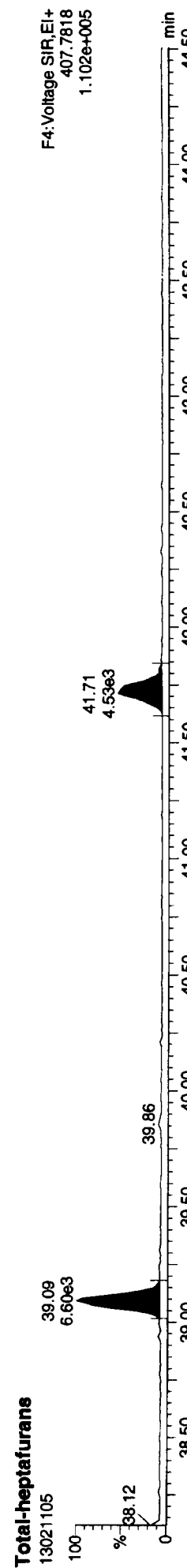
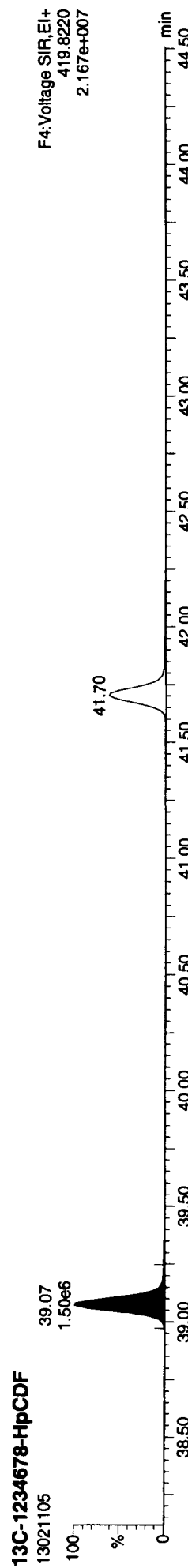
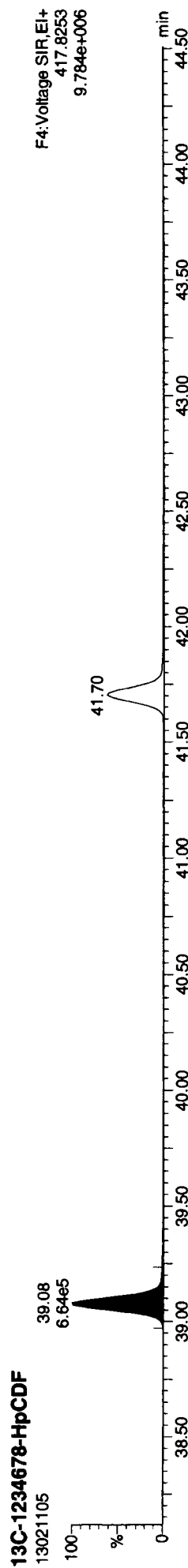
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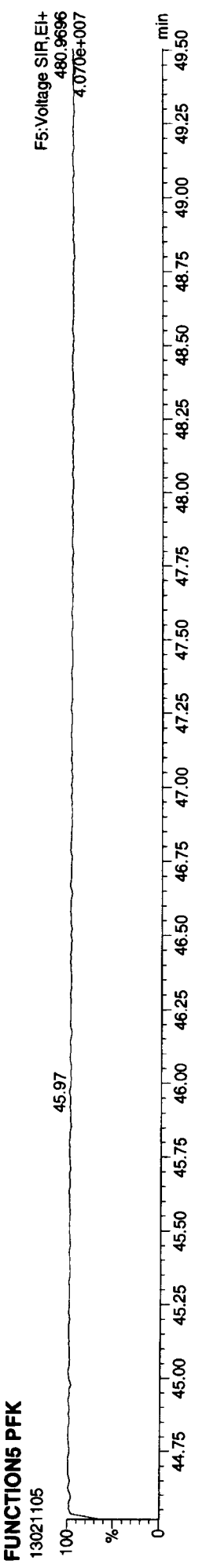
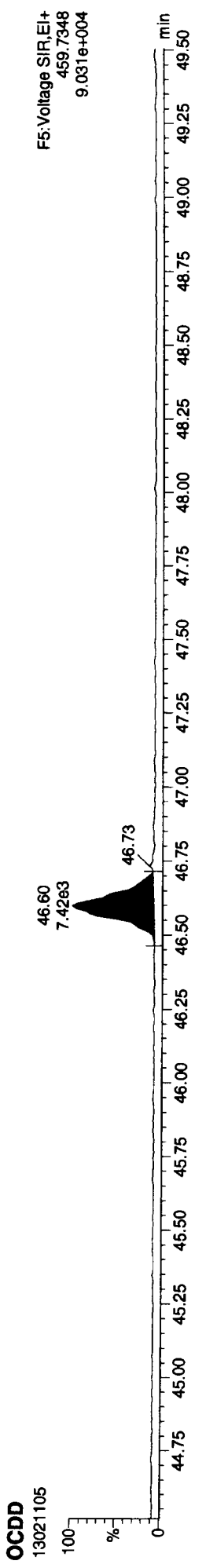
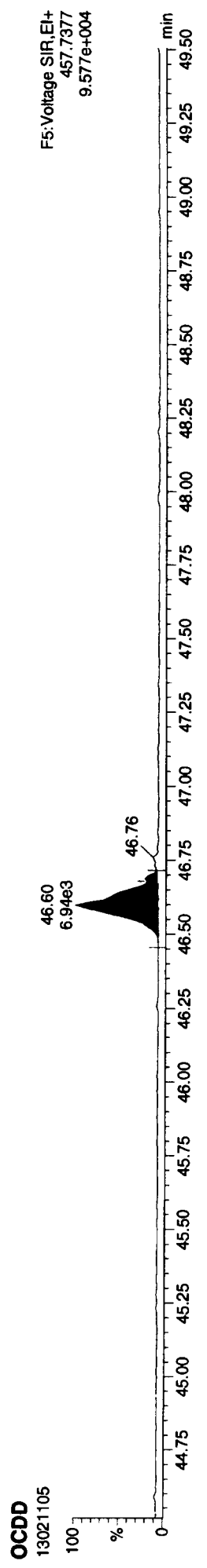
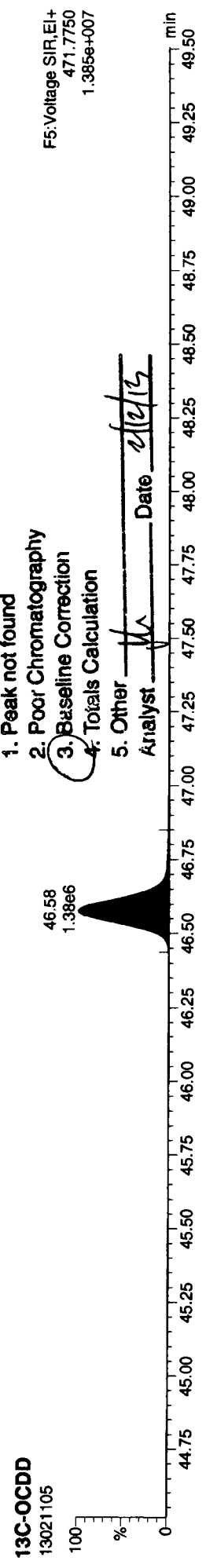
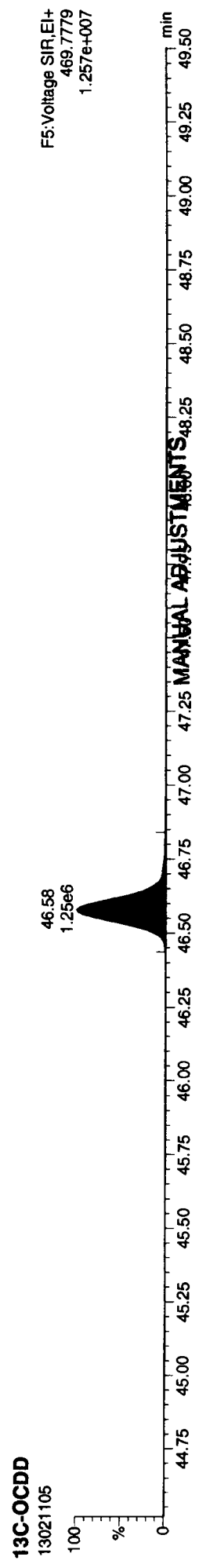
Dataset: P:\DIOXIN8290.PRO\13021105.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\13021105.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

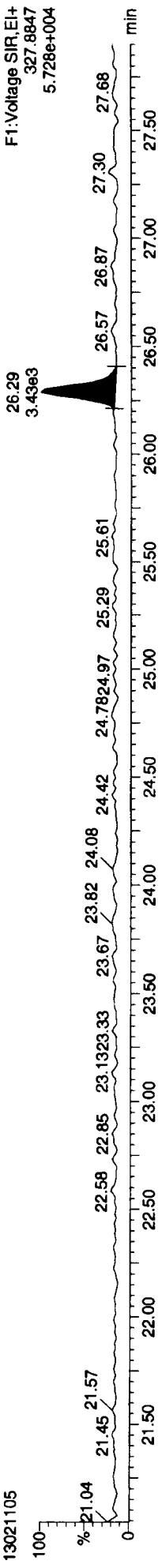


2/12/13 09:35:49

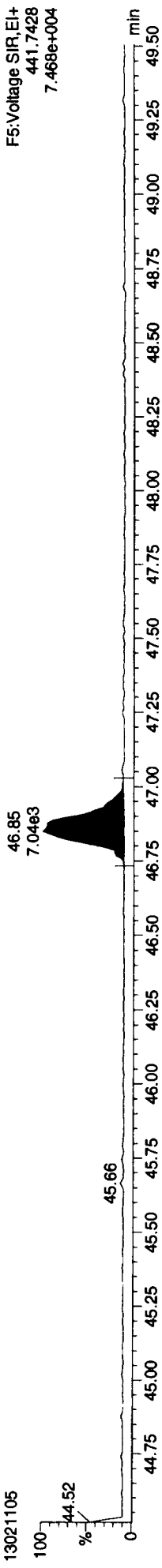
Dataset: P:\DIOXIN8290.PRO\13021105.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:49 Pacific Standard Time

ID: CSL, Name: 13021105, Date: 11-Feb-2013, Time: 14:45:17, Conditions: AUTOSPEC01, User: pk

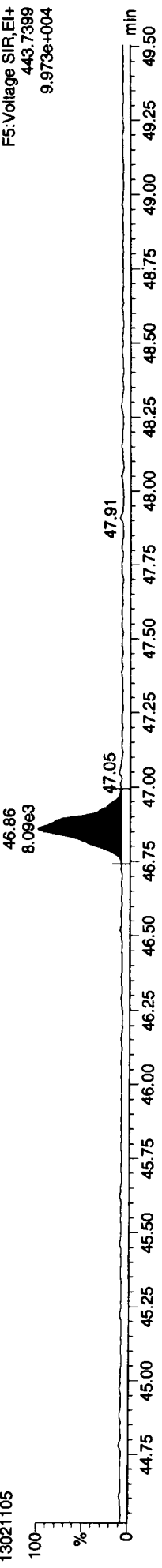
37CL-2378-TCDD



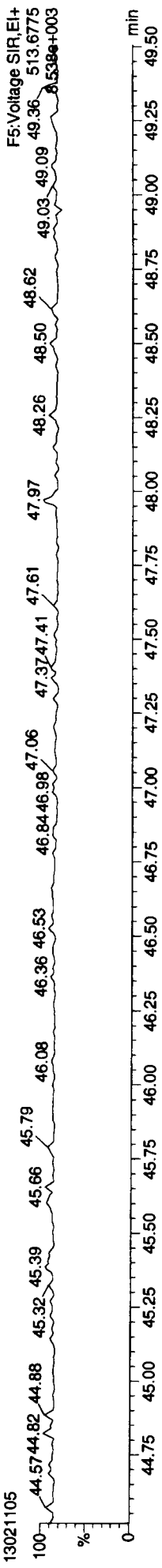
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MaaLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

2378-TCDF	25.660	1.001	8.24e3	1.02e4	0.921	0.809	0.770	128.5	NO	0.474	0.474
12378-PeCDF	29.775	1.001	4.15e4	2.75e4	0.912	1.510	1.550	394.3	NO	2.408	2.408
23478-PeCDF	31.124	1.001	4.16e4	2.88e4	0.943	1.445	1.550	430.5	NO	2.443	2.443
123478-HxCDF	34.796	1.001	3.51e4	2.91e4	1.101	1.204	1.240	506.2	NO	2.439	2.439
234678-HxCDF	35.892	1.001	3.37e4	2.91e4	1.073	1.161	1.240	475.7	NO	2.412	2.412
123678-HxCDF	34.938	1.001	3.78e4	3.06e4	1.056	1.238	1.240	542.7	NO	2.512	2.512
123789-HxCDF	37.032	1.001	2.89e4	2.23e4	1.017	1.297	1.240	391.6	NO	2.451	2.451
1234678-HpCDF	39.082	1.000	3.24e4	3.13e4	1.238	1.035	1.050	557.1	NO	2.477	2.477
1234789-HpCDF	41.724	1.001	2.21e4	2.23e4	1.224	0.990	1.050	352.0	NO	2.360	2.360
OCDF	46.859	1.006	3.48e4	3.96e4	1.162	0.879	0.890	355.2	NO	4.800	4.800
2378-TCDD	26.288	1.001	6.19e3	7.70e3	1.106	0.804	0.770	80.9	NO	0.485	0.485
12378-PeCDD	31.387	1.001	2.95e4	1.83e4	1.001	1.613	1.550	279.6	NO	2.475	2.475
123478-HxCDD	36.024	1.000	2.72e4	2.17e4	0.978	1.253	1.240	396.2	NO	2.603	2.603
123678-HxCDD	36.155	1.001	2.58e4	2.09e4	0.929	1.233	1.240	370.1	NO	2.471	2.471
123789-HxCDD	36.572	1.012	2.44e4	2.04e4	0.904	1.196	1.240	330.6	NO	2.504	2.504
1234678-HpCDD	40.858	1.001	2.22e4	2.02e4	1.029	1.096	1.050	277.5	NO	2.450	2.450
OCDD	46.590	1.000	2.97e4	3.52e4	1.011	0.843	0.890	437.9	NO	4.812	4.812
13C-2378-TCDF	25.630	1.007	1.84e6	2.38e6	1.522	0.775	0.770	9815.0	NO	95.627	95.627
13C-12378-PeCDF	29.753	1.169	1.92e6	1.22e6	1.185	1.577	1.550	9300.7	NO	91.390	91.390
13C-23478-PeCDF	31.102	1.222	1.87e6	1.19e6	1.136	1.582	1.550	9586.6	NO	92.750	92.750
13C-123478-HxCDF	34.774	0.951	8.20e5	1.57e6	1.284	0.522	0.510	4530.5	NO	98.338	98.338
13C-123678-HxCDF	34.917	0.955	8.80e5	1.70e6	1.383	0.518	0.510	4694.7	NO	98.595	98.595
13C-234678-HxCDF	35.870	0.981	6.25e5	1.60e6	1.283	0.515	0.510	4522.0	NO	99.943	99.943
13C-123789-HxCDF	37.010	1.012	7.03e5	1.35e6	1.099	0.522	0.510	3665.3	NO	98.588	98.588
13C-1234678-HpCDF	39.071	1.069	6.41e5	1.44e6	1.070	0.446	0.440	5078.1	NO	102.703	102.703
13C-1234789-HpCDF	41.702	1.141	4.82e5	1.05e6	0.774	0.457	0.440	3315.3	NO	104.917	104.917
13C-1234-TCDD	25.451	0.000	1.28e6	1.62e6	1.000	0.789	0.770	4091.3	NO	100.000	100.000
13C-2378-TCDD	26.272	1.032	1.13e6	1.45e6	0.943	0.781	0.770	3466.1	NO	94.622	94.622
13C-12378-PeCDD	31.365	1.232	1.19e6	7.48e5	0.715	1.581	1.550	9032.5	NO	93.125	93.125
13C-123478-HxCDD	36.013	0.985	1.07e6	8.54e5	1.032	1.248	1.240	6497.0	NO	98.322	98.322
13C-123678-HxCDD	36.133	0.988	1.13e6	9.09e5	1.076	1.241	1.240	6668.0	NO	100.012	100.012
13C-1234678-HpCDD	40.836	1.117	8.55e5	8.26e5	0.838	1.035	1.050	5323.9	NO	106.095	106.095
13C-OCDD	46.572	1.274	1.29e6	1.41e6	0.675	0.896	0.890	4434.6	NO	206.489	206.489

Quantity Sample Summary Report

Maeslynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

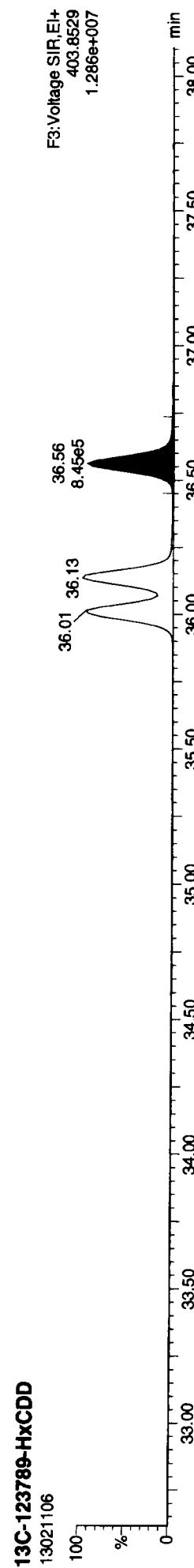
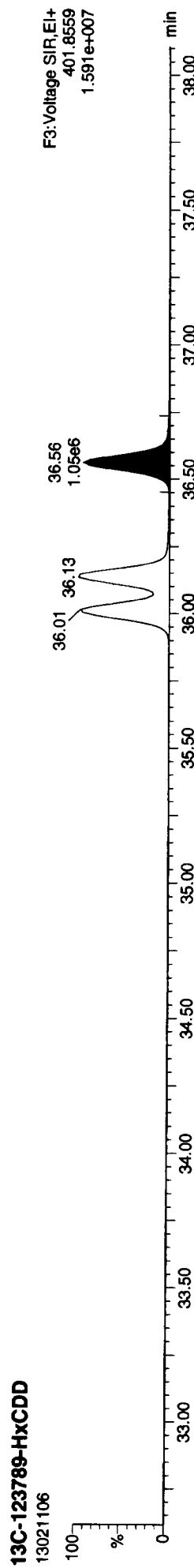
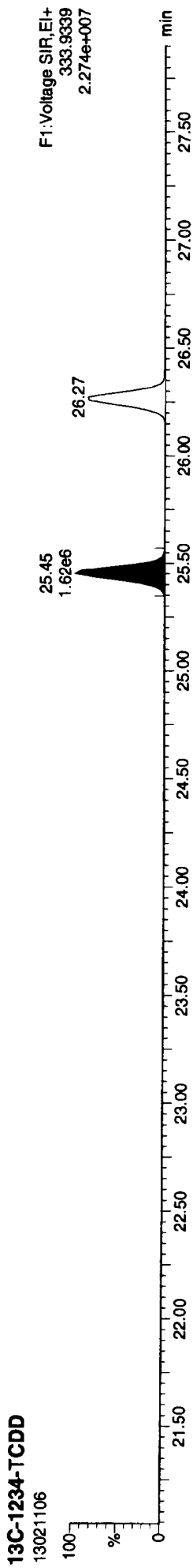
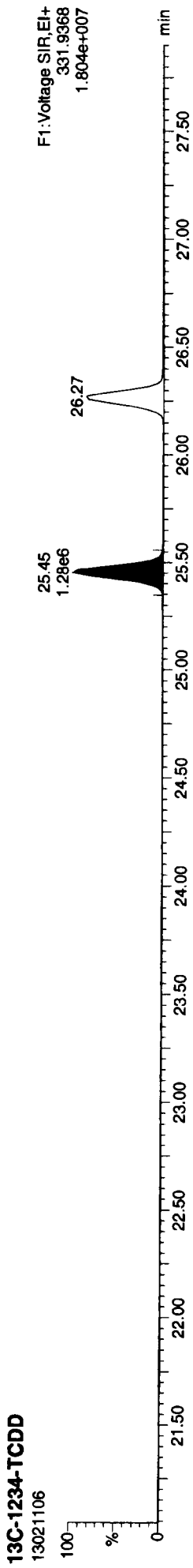
ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

13C-123789-HxCDD	36.561	0.000	1.05e6	8.45e5	1.000	1.240	1.240	6332.6	NO	100.000
Total-tetrafurans			8.24e3		0.921					0.474
Total-penta1			0.00e0							
Total-pentafurans			8.43e4		0.927					4.919
Total-hexafurans			1.35e5		1.062					9.813
Total-heptafurans			5.45e4		1.231					4.837
Total-Furans			3.17e5		1.065					24.843
Total-tetra-dioxins			7.26e3		1.106					0.536
Total-penta-dioxins			2.95e4		1.001					2.475
Total-hexa-dioxins			7.81e4		0.937					7.620
Total-hepta-dioxins			2.25e4		1.029					2.487
Total-Dioxins			1.67e5		0.994					17.930
Total-TEQ			4.84e5							42.772
37CL-2378-TCDD	26.288	1.033	1.39e4		1.051			105.9		0.456
FUNCTION1 PFK			1.51e8							0.000
FUNCTION2 PFK			1.89e5							0.000
FUNCTION3 PFK			4.04e5							0.000
FUNCTION4 PFK			1.79e7							
FUNCTION5 PFK			6.08e5							
FUNCTION1 HxCDPE			0.00e0							0.000
FUNCTION1 HPCDPE			1.23e3							0.000
FUNCTION2 HPCDPE			5.21e2							0.000
FUNCTION3 OCdPE			0.00e0							
FUNCTION4 NCDPE			8.26e1							0.000
FUNCTION5 DCdPE			0.00e0							0.000

Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021106.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

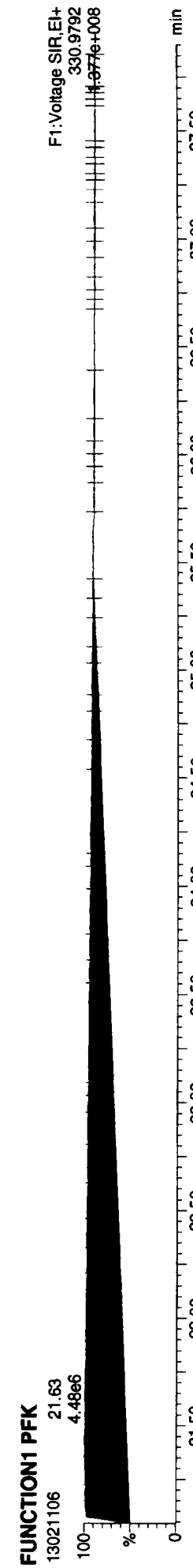
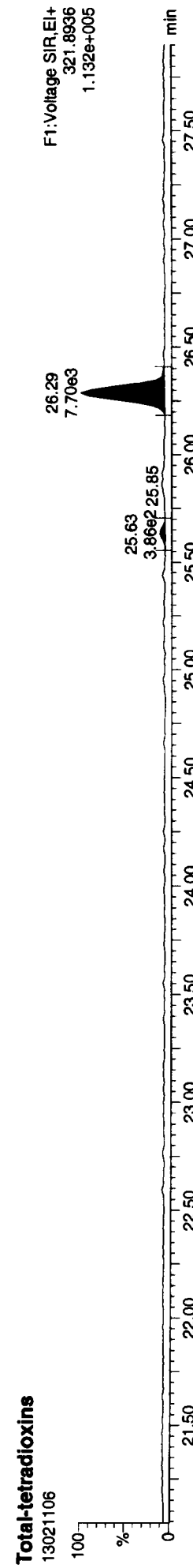
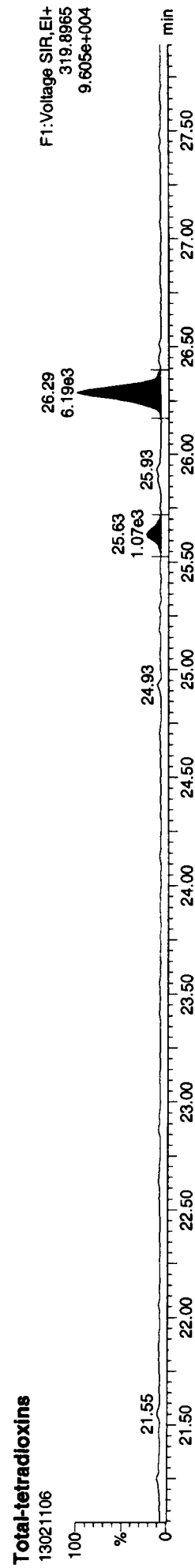
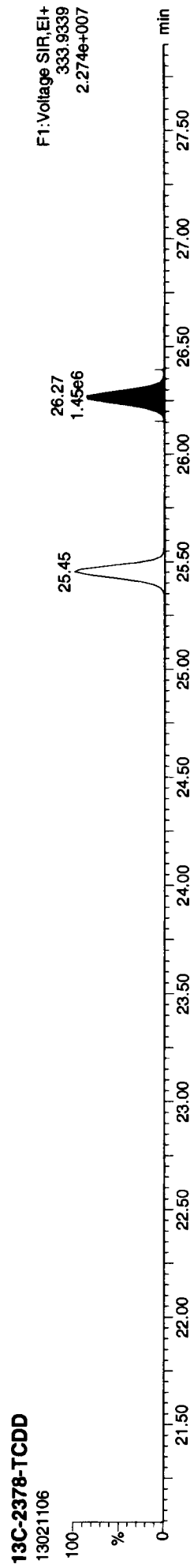
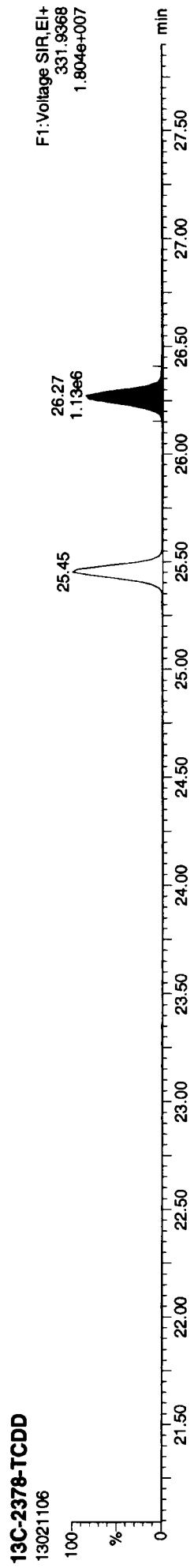
ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk



Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

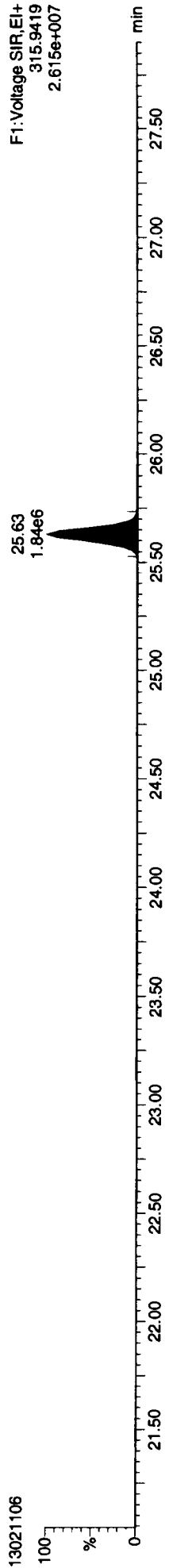
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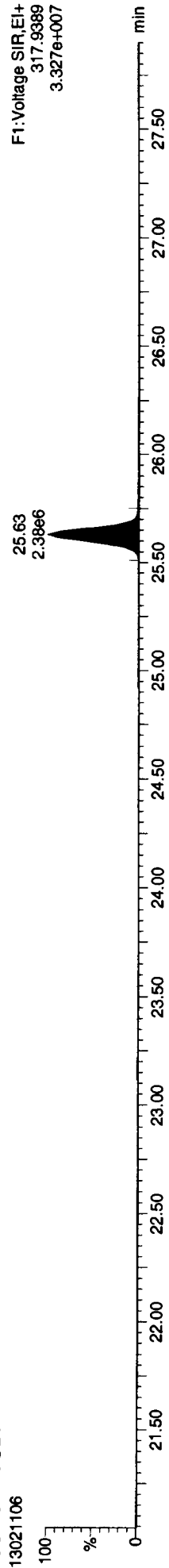
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

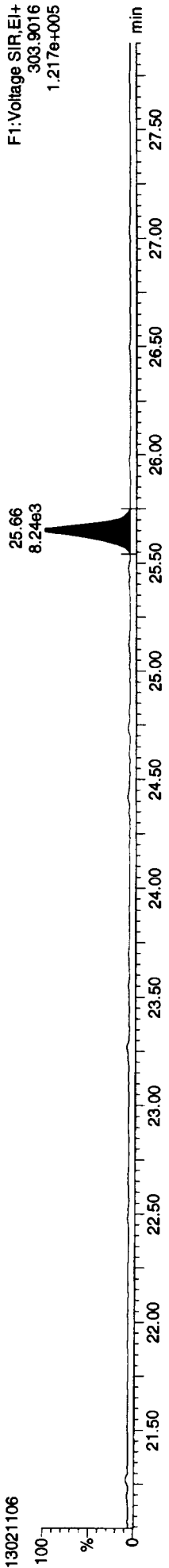
13C-2378-TCDF



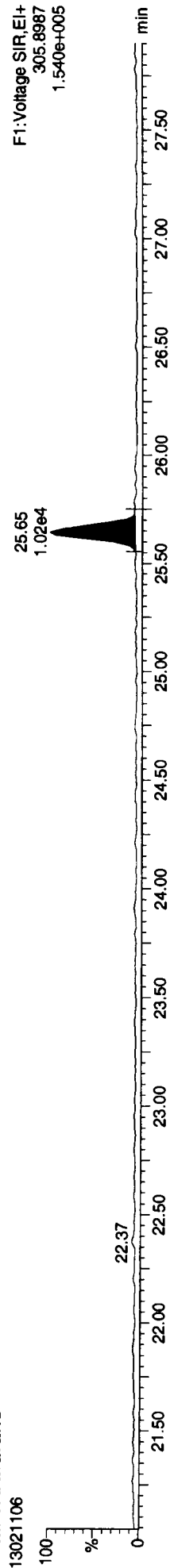
13C-2378-TCDF



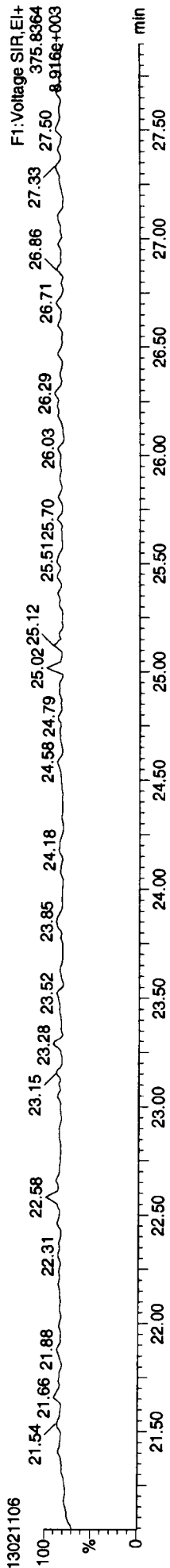
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

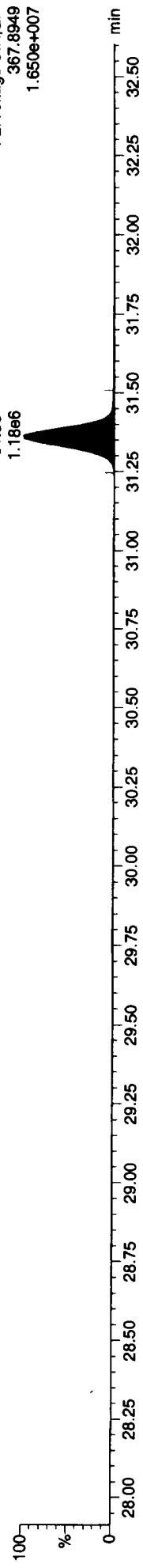




ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

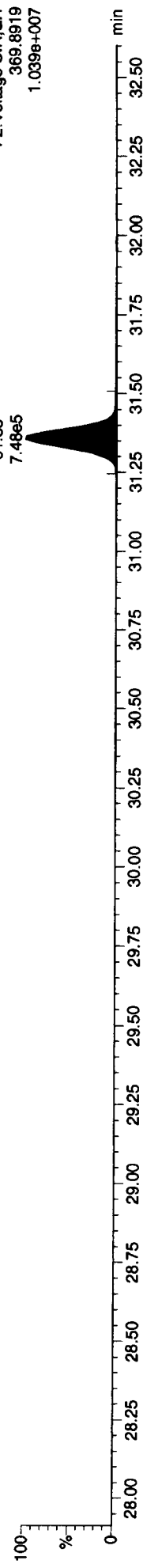
13C-12378-PeCDD

13021106



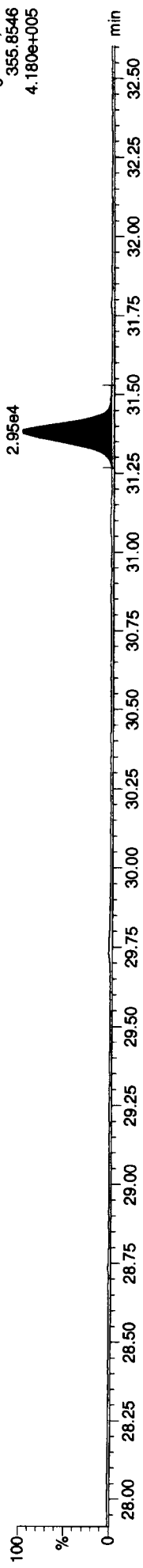
13C-12378-PeCDD

13021106



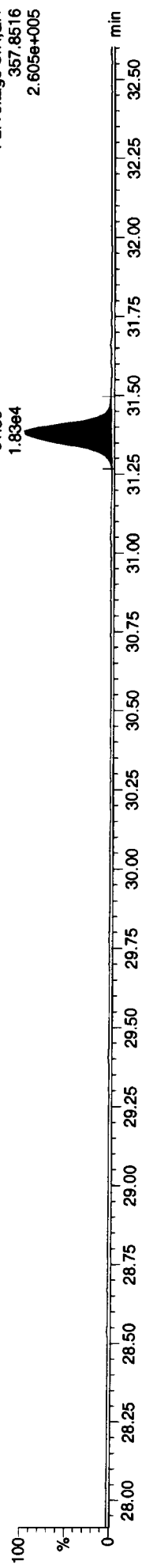
Total-pentadioxins

13021106



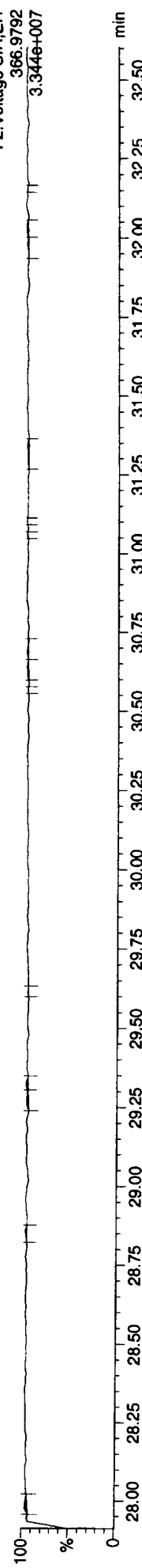
Total-pentadioxins

13021106



FUNCTION2 PFK

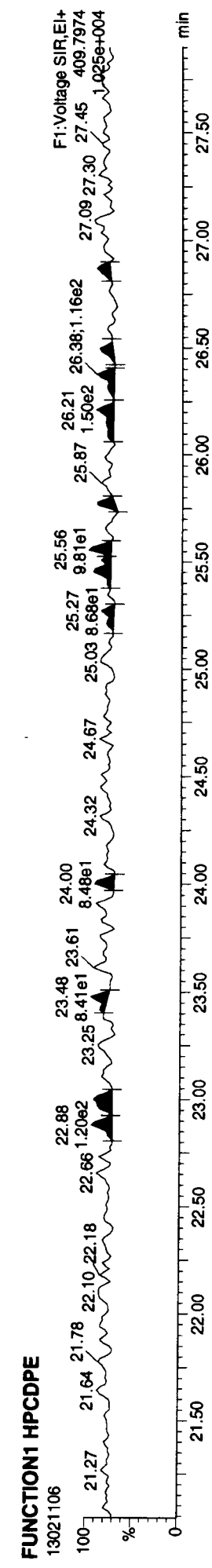
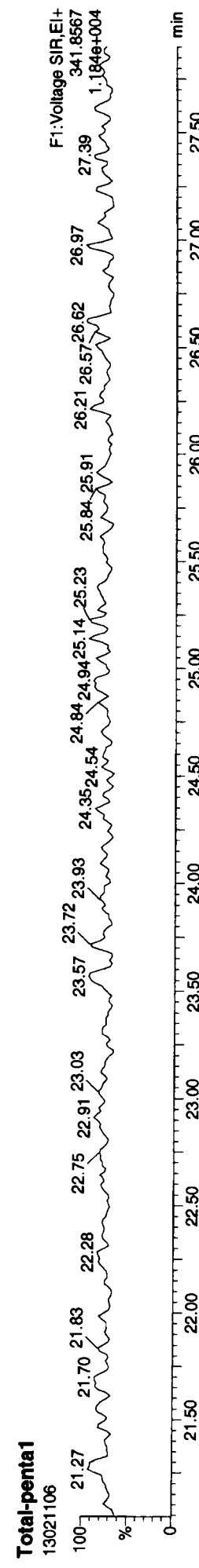
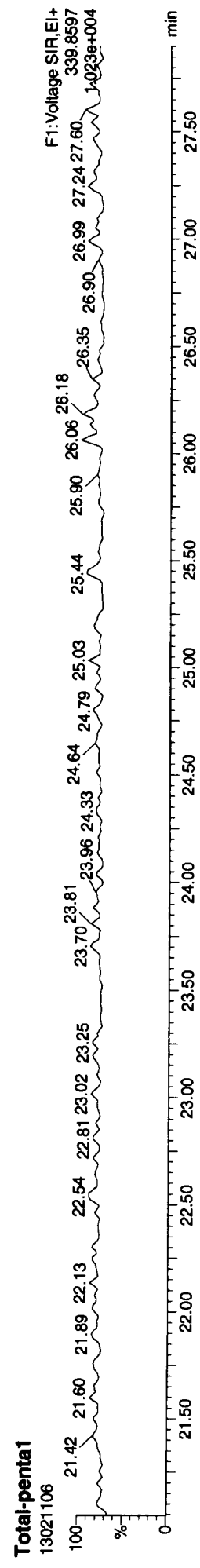
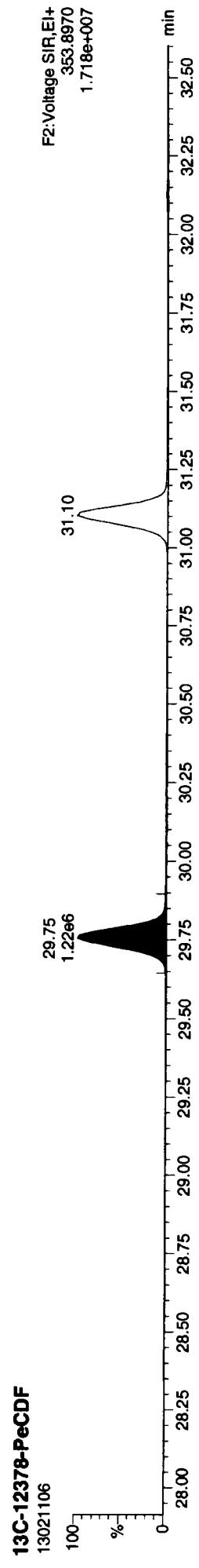
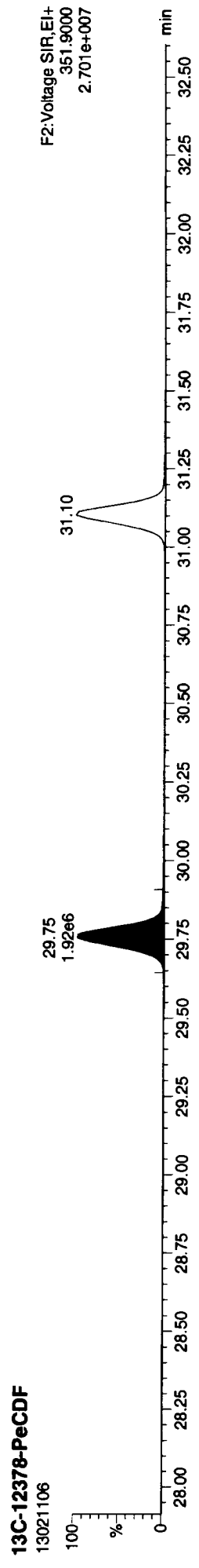
13021106



11 FEB 2013 09:35:59

Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

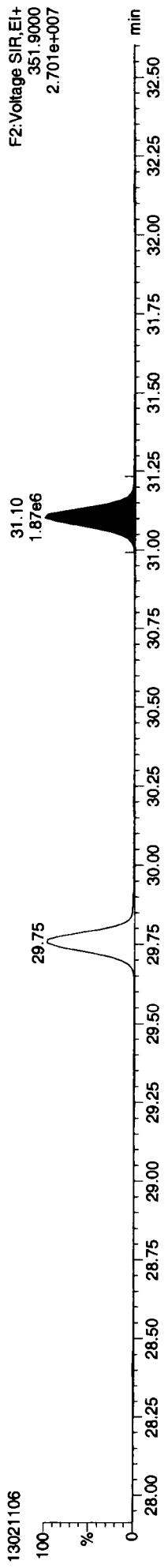
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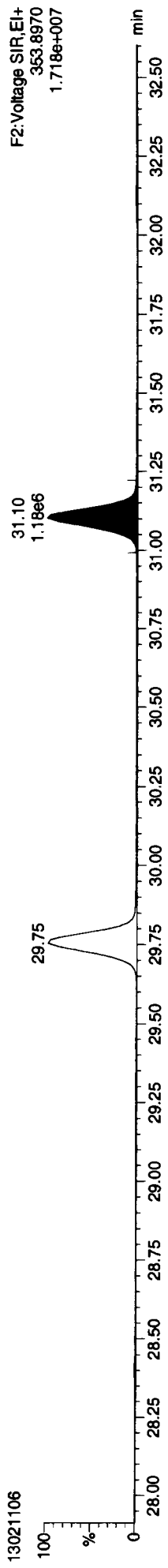
Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

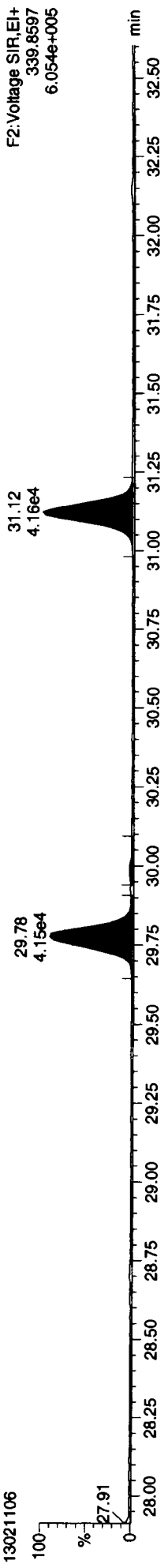
13C-23478-PeCDF



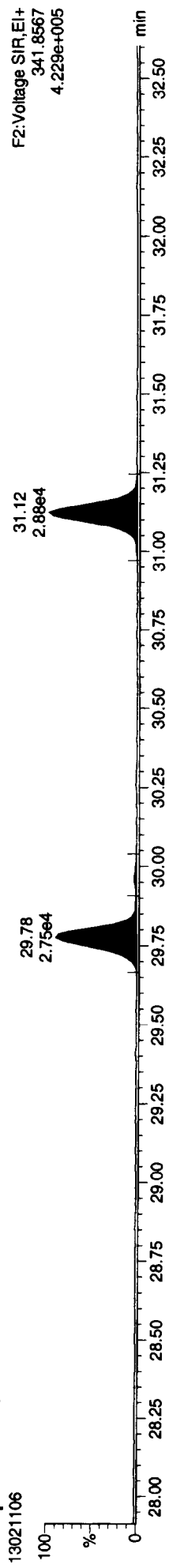
13C-23478-PeCDF



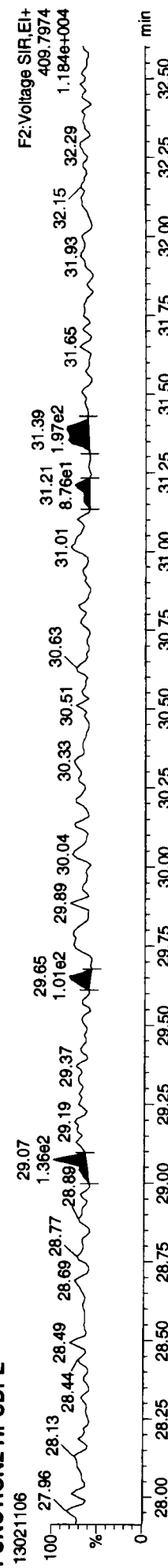
Total-pentafurans



Total-pentafurans

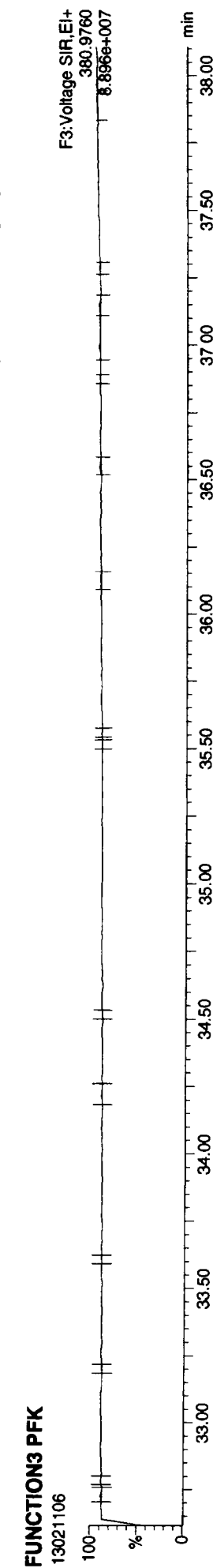
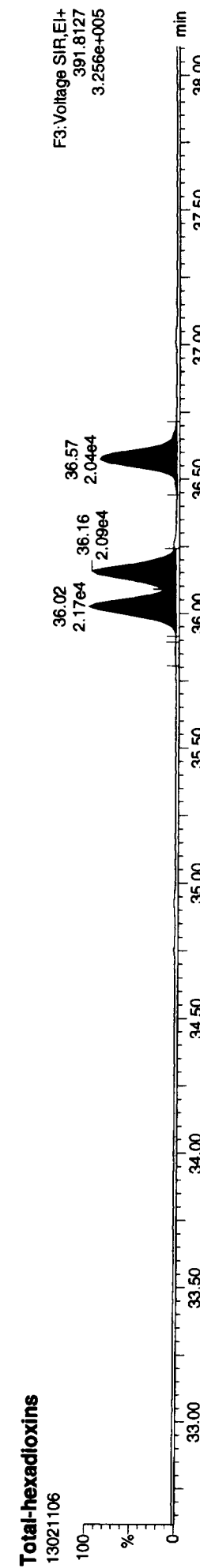
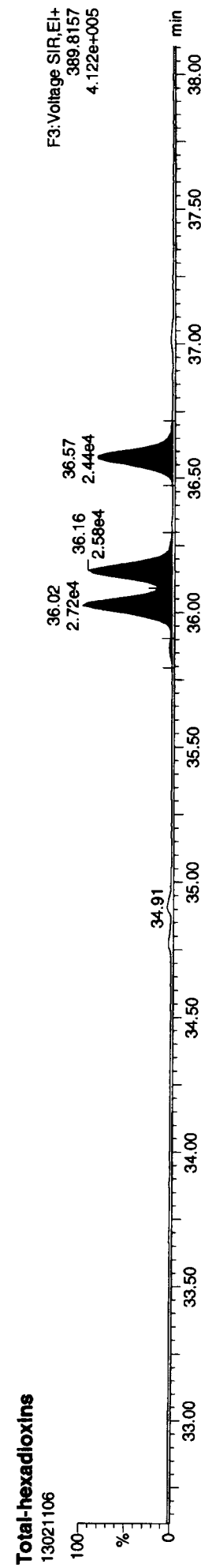
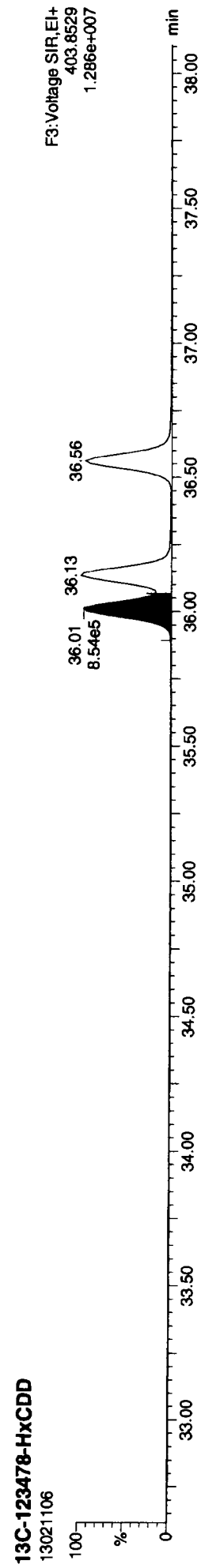
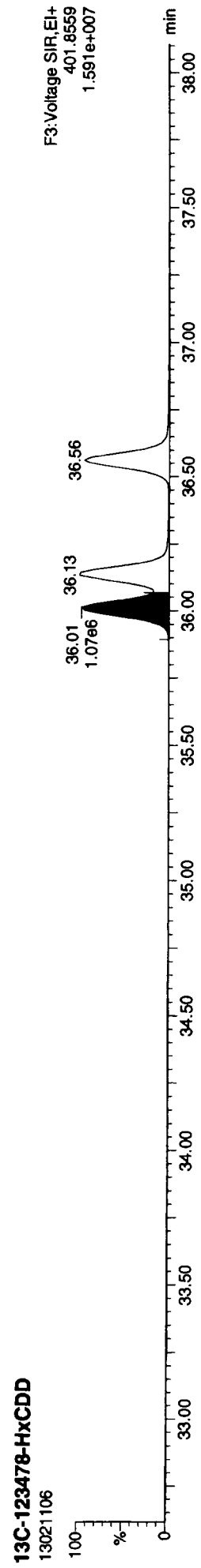


FUNCTION2 HPCDPE



Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: F:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

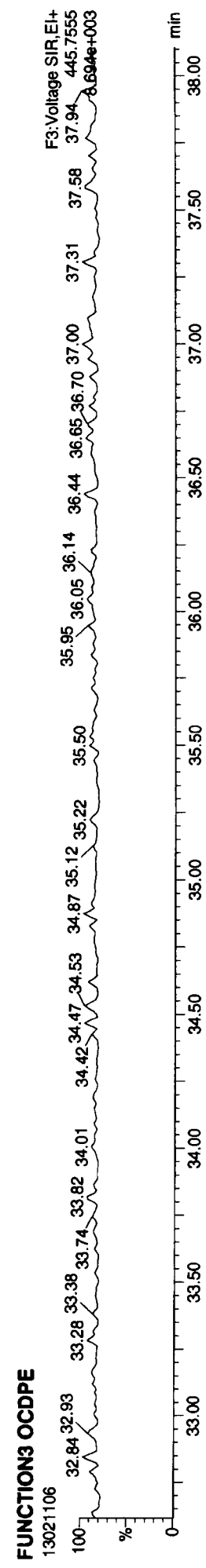
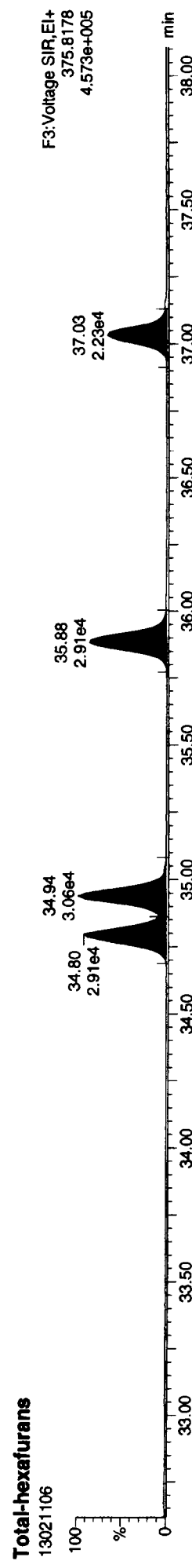
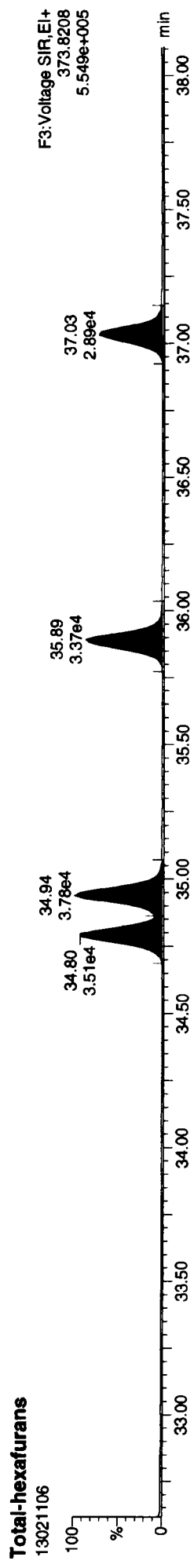
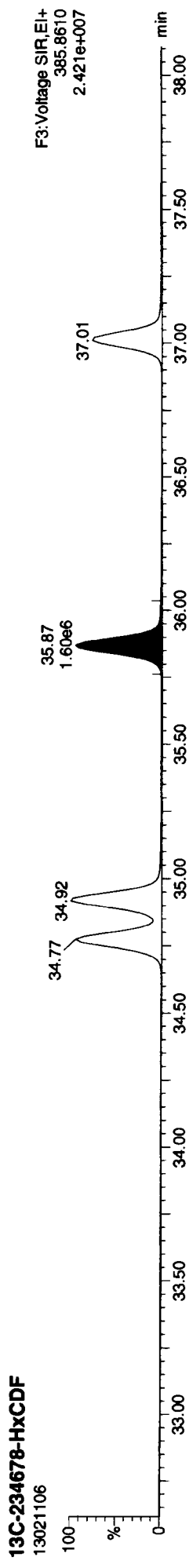
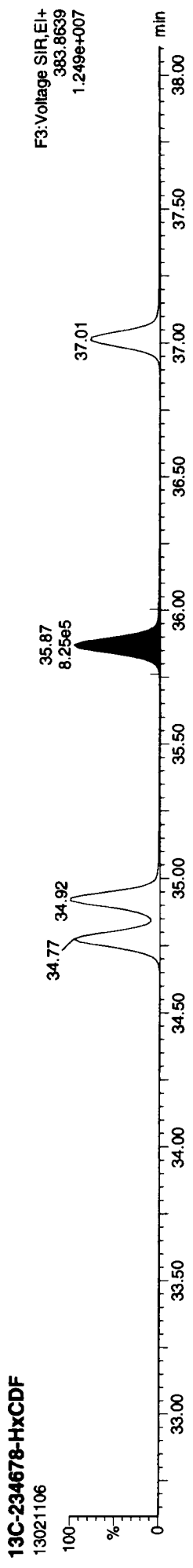


11 20 09 06

Quantity Sample Report MassLynx 4.1 9CN 714

Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk



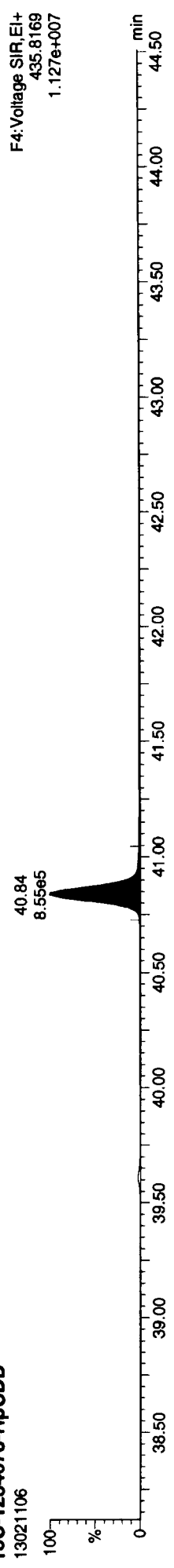
13021106

Quantity Sample Report MassLynx 4.1 SCN 714

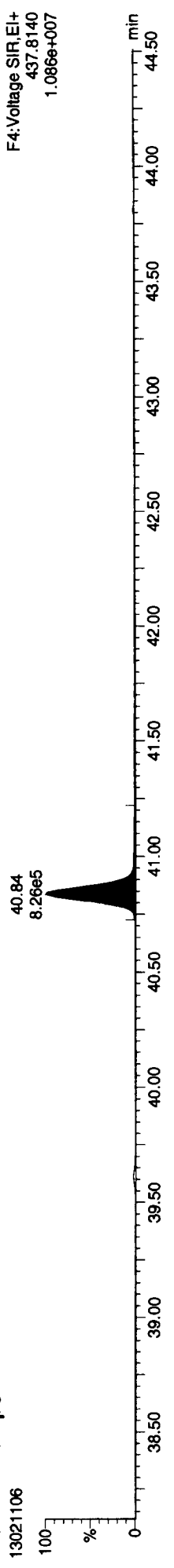
Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

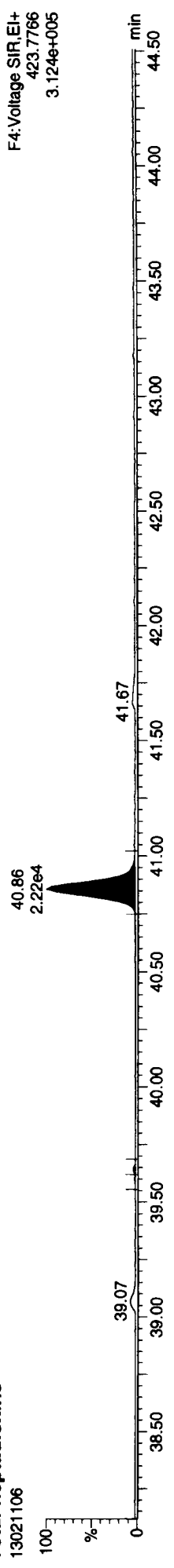
13C-1234678-HpCDD  
13021106



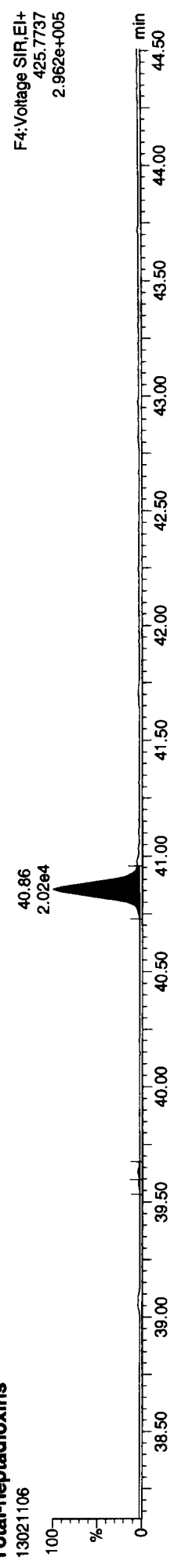
13C-1234678-HpCDD  
13021106



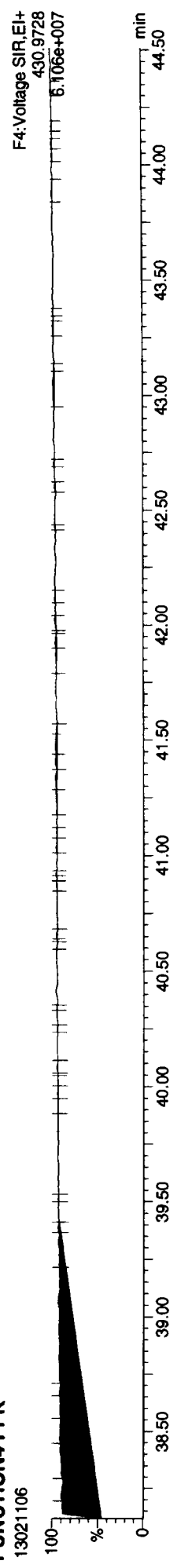
Total-heptadioxins  
13021106



Total-heptadioxins  
13021106



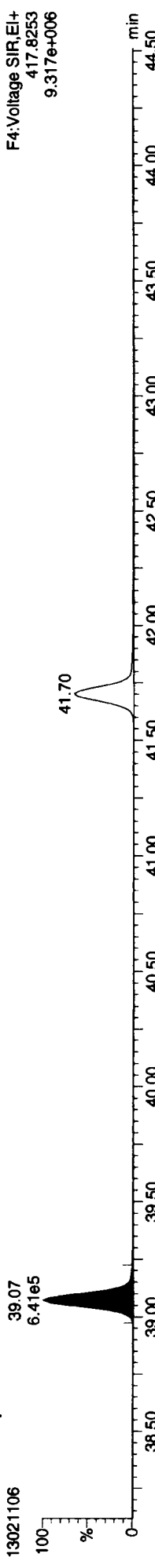
FUNCTION4 PFK  
13021106



Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

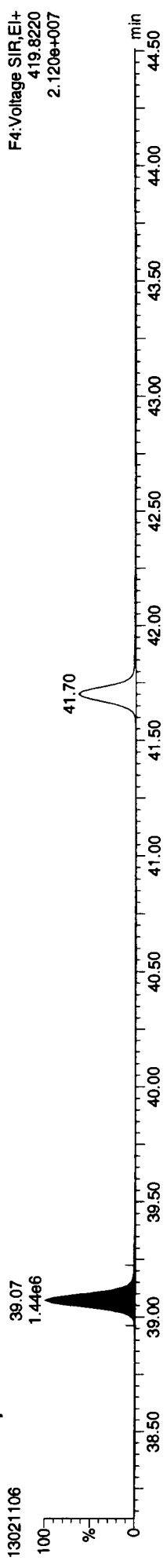
ID: CSI, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



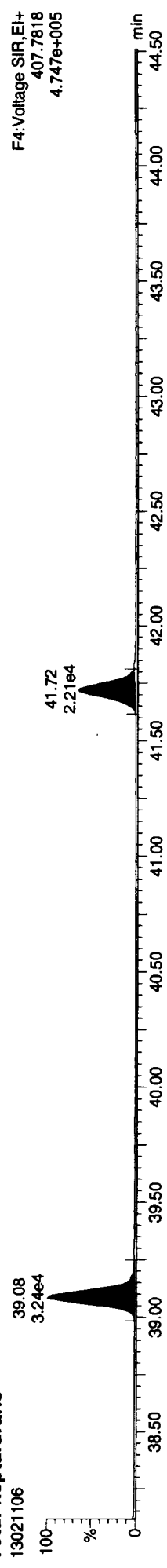
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9.317e+006

13C-1234678-HpCDF



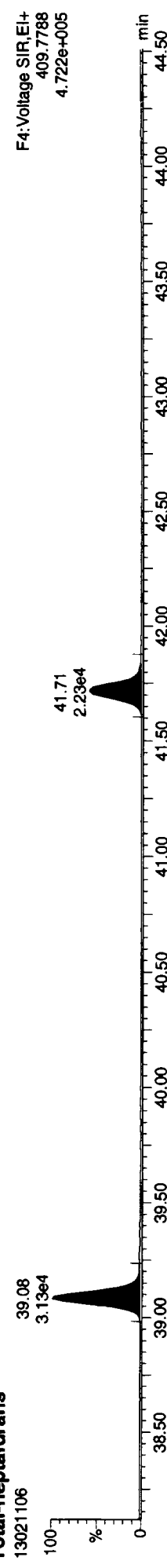
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2.120e+007

Total-heptafurans



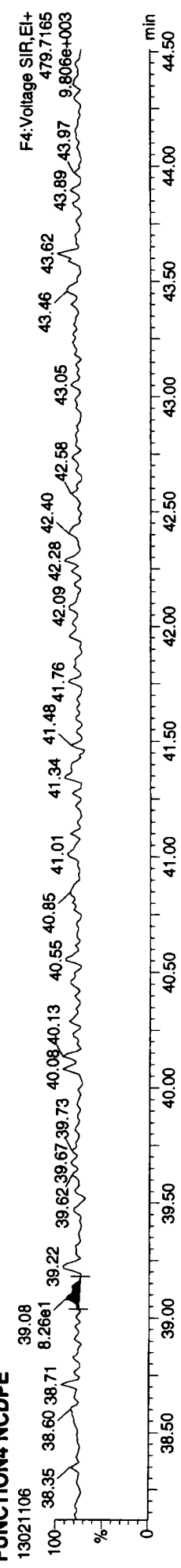
F4:Voltage SIR,El+  
407.7818  
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Total-heptafurans



F4:Voltage SIR,El+  
409.7788  
4.722e+005

FUNCTION4 NCDPE

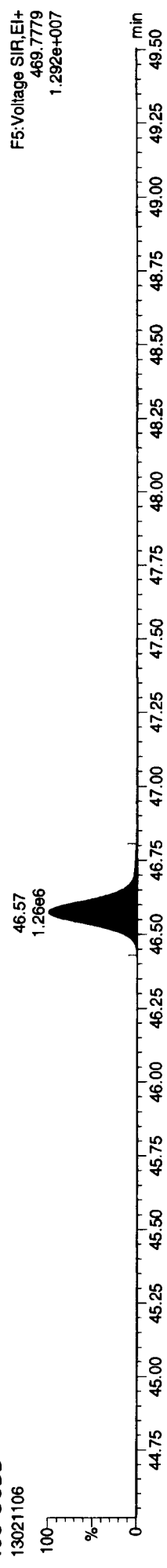


F4:Voltage SIR,El+  
479.7165  
9.806e+003

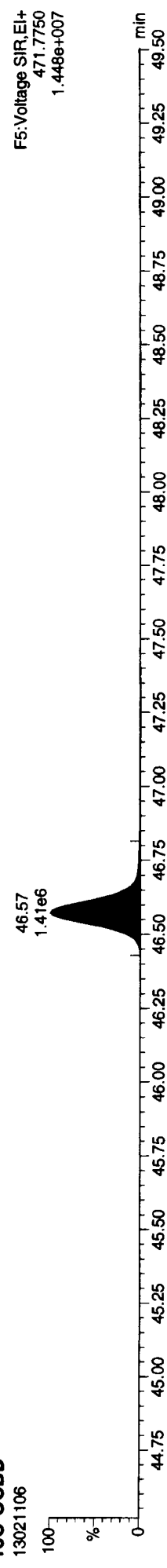
Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

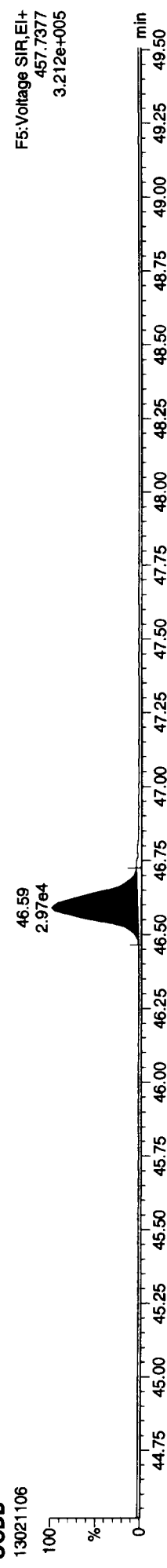
13C-OCDD  
13021106



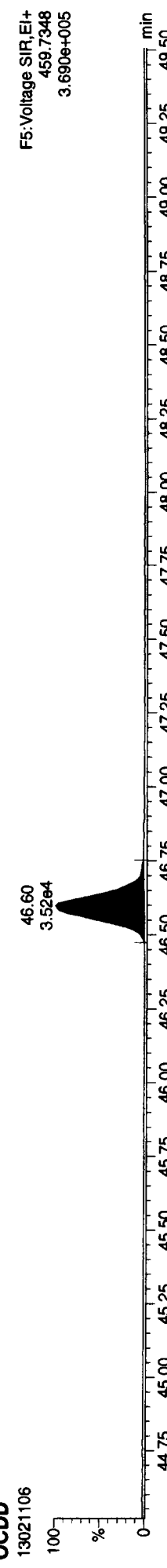
13C-OCDD  
13021106



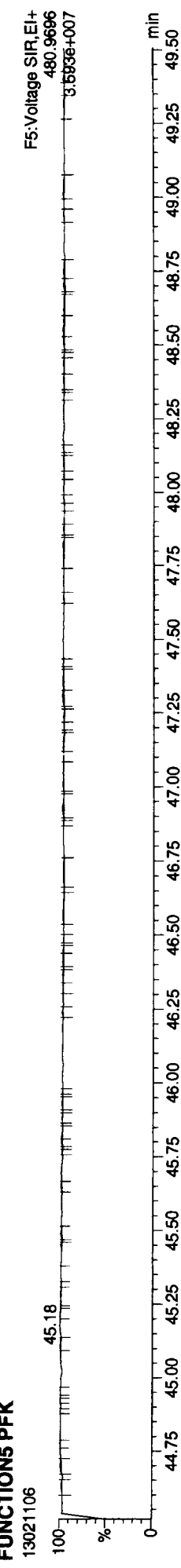
OCDD  
13021106



OCDD  
13021106



FUNCTION5 PFK  
13021106



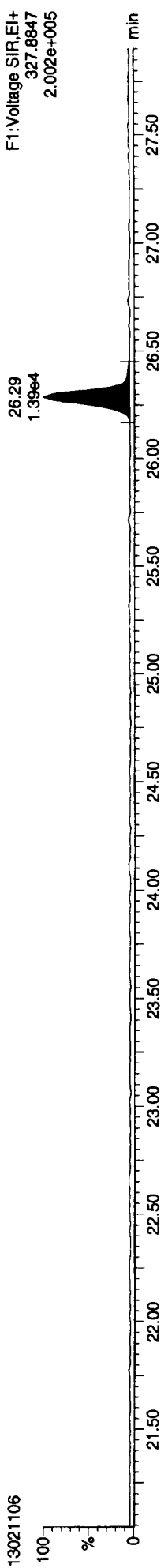


Quantity Sample Report MacLynx 4.1 SCN 714

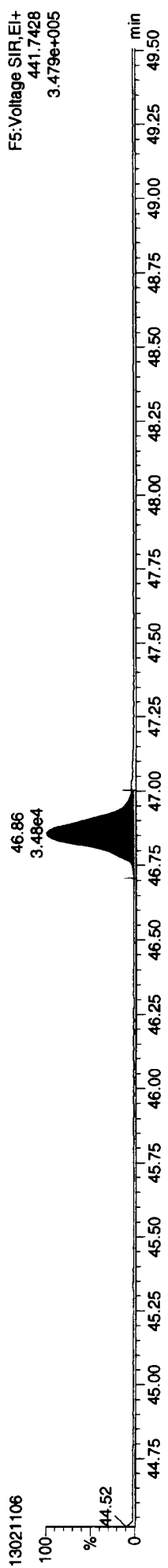
Dataset: P:\DIOXIN8290.PRO\13021106.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:35:59 Pacific Standard Time

ID: CS1, Name: 13021106, Date: 11-Feb-2013, Time: 15:40:00, Conditions: AUTOSPEC01, User: pk

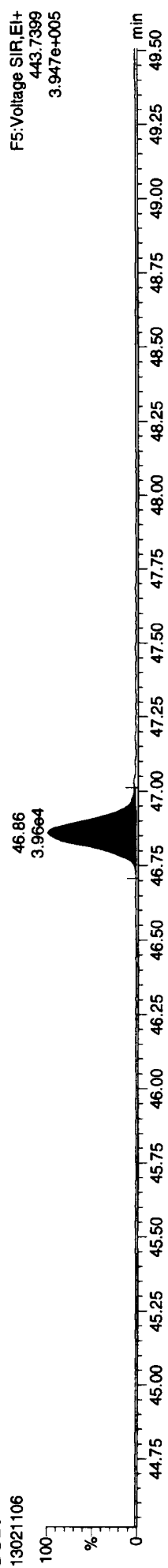
37CL-2378-TCDD



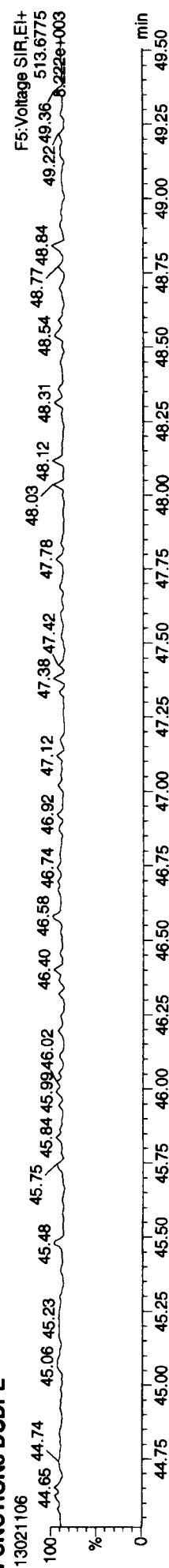
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211C.qld

Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

Compound	25.845	1.001	3.90e4	5.16e4	0.921	0.757	0.770	455.6	NO	1.850
2378-TCDF	25.845	1.001	3.90e4	5.16e4	0.921	0.757	0.770	455.6	NO	1.850
12378-PeCDF	29.775	1.000	2.13e5	1.42e5	0.912	1.496	1.550	2543.1	NO	9.930
23478-PeCDF	31.123	1.000	2.02e5	1.37e5	0.943	1.480	1.550	2526.8	NO	9.606
123478-HxCDF	34.795	1.001	1.64e5	1.38e5	1.101	1.185	1.240	1391.2	NO	9.803
234678-HxCDF	35.891	1.000	1.59e5	1.31e5	1.073	1.215	1.240	1352.1	NO	9.821
123678-HxCDF	34.949	1.001	1.69e5	1.41e5	1.056	1.192	1.240	1391.4	NO	9.788
123789-HxCDF	37.042	1.001	1.27e5	1.04e5	1.017	1.221	1.240	1049.4	NO	9.650
1234678-HpCDF	39.092	1.000	1.32e5	1.34e5	1.238	0.990	1.050	1682.4	NO	9.721
1234789-HpCDF	41.723	1.001	9.48e4	9.38e4	1.224	1.011	1.050	965.8	NO	9.843
OCDF	46.858	1.006	1.40e5	1.57e5	1.162	0.892	0.890	693.8	NO	19.220
2378-TCDD	26.287	1.001	2.97e4	3.75e4	1.106	0.792	0.770	302.5	NO	1.857
12378-PeCDD	31.366	1.001	1.40e5	8.99e4	1.001	1.561	1.550	1172.0	NO	9.809
123478-HxCDD	36.034	1.001	1.15e5	9.42e4	0.978	1.226	1.240	1609.7	NO	9.760
123678-HxCDD	36.154	1.000	1.20e5	9.49e4	0.929	1.268	1.240	1621.9	NO	10.047
123789-HxCDD	36.582	1.012	1.11e5	8.82e4	0.904	1.254	1.240	1486.1	NO	9.765
1234678-HpCDD	40.868	1.001	8.85e4	8.49e4	1.029	1.043	1.050	937.7	NO	9.874
OCDD	46.597	1.000	1.25e5	1.37e5	1.011	0.914	0.890	1488.4	NO	19.411
13C-2378-TCDF	25.630	1.006	2.33e6	2.99e6	1.522	0.780	0.770	10937.8	NO	100.611
13C-12378-PeCDF	29.764	1.169	2.39e6	1.53e6	1.185	1.558	1.550	11627.8	NO	95.316
13C-23478-PeCDF	31.112	1.222	2.29e6	1.46e6	1.136	1.566	1.550	11563.9	NO	94.992
13C-123478-HxCDF	34.773	0.951	9.53e5	1.85e6	1.284	0.516	0.510	3893.2	NO	102.298
13C-123678-HxCDF	34.927	0.955	1.02e6	1.97e6	1.383	0.518	0.510	4155.7	NO	101.506
13C-234678-HxCDF	35.881	0.981	9.45e5	1.81e6	1.283	0.522	0.510	3774.2	NO	100.615
13C-123789-HxCDF	37.021	1.012	7.89e5	1.57e6	1.089	0.504	0.510	3197.3	NO	100.470
13C-1234678-HpCDF	39.081	1.069	6.88e5	1.52e6	1.070	0.451	0.440	4622.8	NO	96.933
13C-1234789-HpCDF	41.701	1.140	4.88e5	1.08e6	0.774	0.453	0.440	2873.8	NO	94.897
13C-1234-TCDD	25.465	0.000	1.53e6	1.94e6	1.000	0.791	0.770	4055.9	NO	100.000
13C-2378-TCDD	26.272	1.032	1.44e6	1.84e6	0.943	0.781	0.770	3816.9	NO	100.002
13C-12378-PeCDD	31.365	1.232	1.44e6	9.07e5	0.715	1.583	1.550	10853.2	NO	94.366
13C-123478-HxCDD	36.012	0.985	1.23e6	9.71e5	1.032	1.261	1.240	7646.5	NO	99.794
13C-123678-HxCDD	36.144	0.988	1.27e6	1.03e6	1.076	1.232	1.240	8043.3	NO	100.428
13C-1234678-HpCDD	40.846	1.117	8.72e5	8.35e5	0.838	1.044	1.050	5071.5	NO	95.549
13C-OCDD	46.579	1.274	1.27e6	1.40e6	0.675	0.906	0.890	6376.9	NO	184.840

13021107

Quantity Sample Summary Report **MaesLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
 Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
 Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

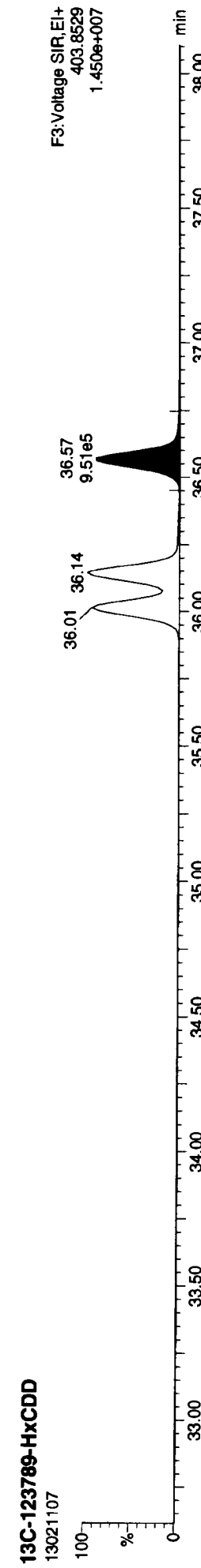
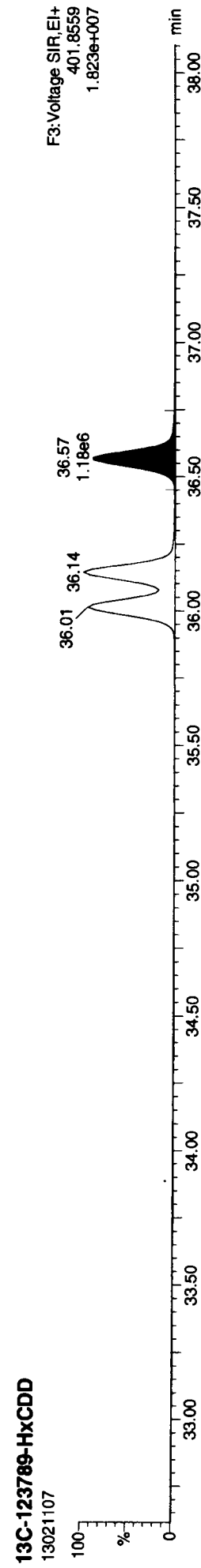
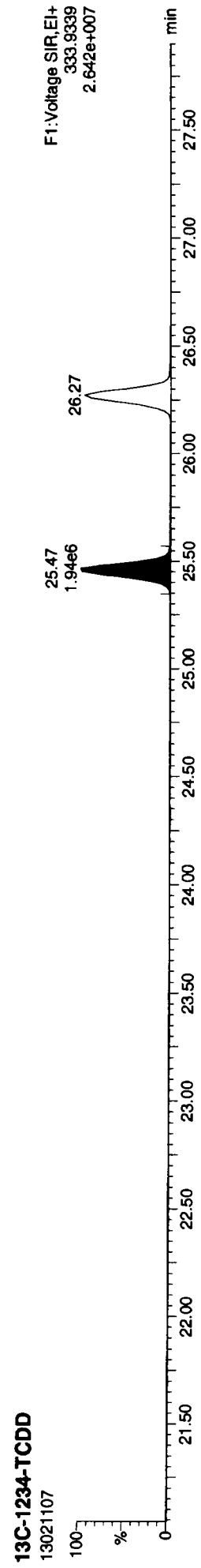
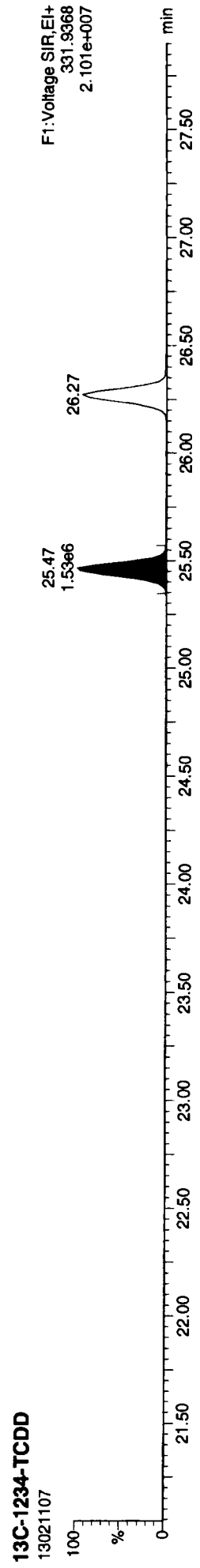
ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

13C-123789-HxCDD	36.571	0.000	1.18e6	9.51e5	1.000	1.242	1.240	7248.5	NO	100.000
Total-tetrafurans			3.97e4		0.921					1.879
Total-penta 1			7.12e1							0.005
Total-pentafurans			4.22e5		0.927					19.826
Total-hexafurans			6.19e5		1.062					39.099
Total-heptafurans			2.27e5		1.231					19.564
Total-Furans			1.45e6		1.065					99.592
Total-tetraoxins			3.15e4		1.106					1.946
Total-pentaoxins			1.40e5		1.001					9.817
Total-hexaoxins			3.47e5		0.937					29.620
Total-heptaoxins			8.85e4		1.029					9.874
Total-Dioxins			7.32e5		0.994					70.669
Total-TEQ			2.18e6							170.261
37CL-2378-TCDD	26.287	1.032	7.08e4		1.051			490.7		1.938
FUNCTION1 PFK			2.70e6							0.000
FUNCTION2 PFK			2.37e5							0.000
FUNCTION3 PFK			1.58e6							0.000
FUNCTION4 PFK			7.82e5							0.000
FUNCTION5 PFK			0.00e0							0.000
FUNCTION1 HXCDPE			1.76e2							0.000
FUNCTION1 HPCDPE			1.48e3							0.000
FUNCTION2 HPCDPE			6.92e2							0.000
FUNCTION3 OCDPE			0.00e0							0.000
FUNCTION4 NCDPE			8.06e1							0.000
FUNCTION5 DCDDPE			0.00e0							0.000

Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021107.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DIoxin\130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

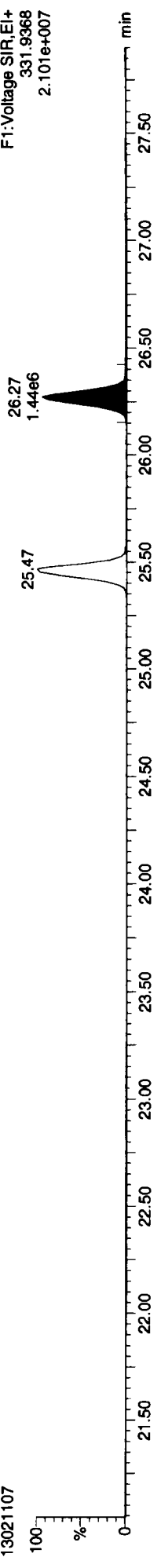


Quantify Sample Report MassLynx 4.1 SCN 714

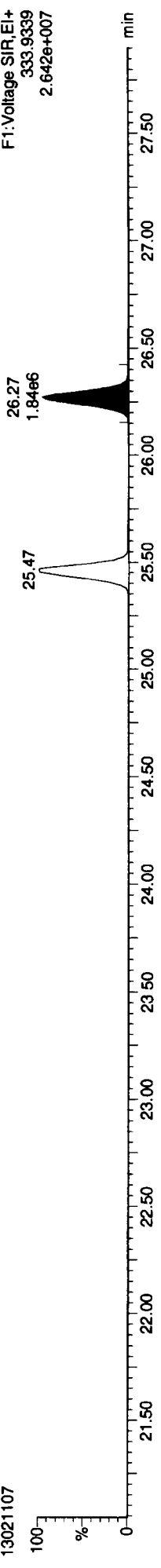
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

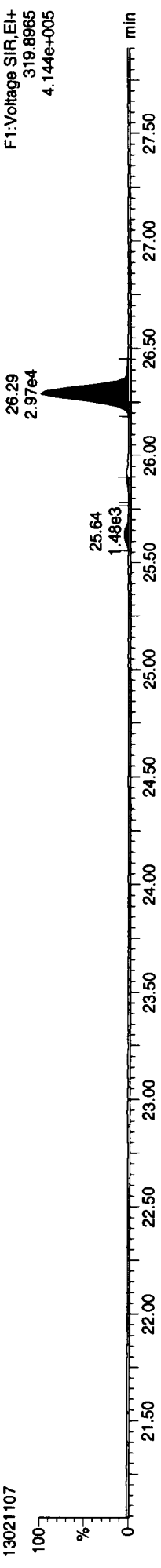
13C-2378-TCDD



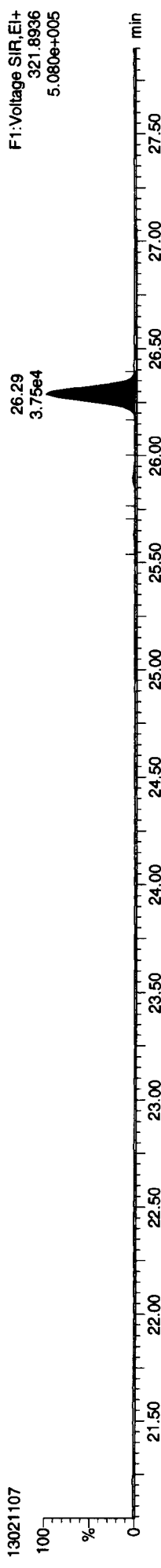
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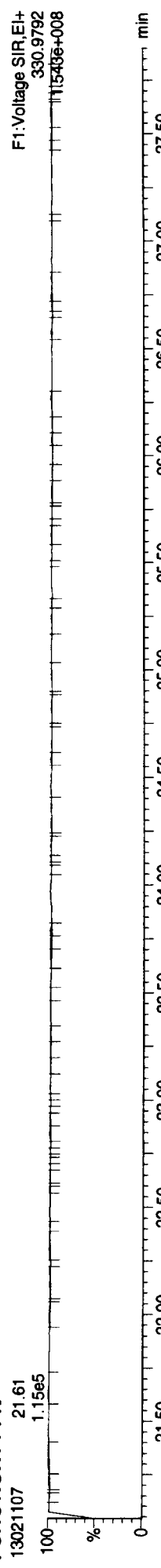
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

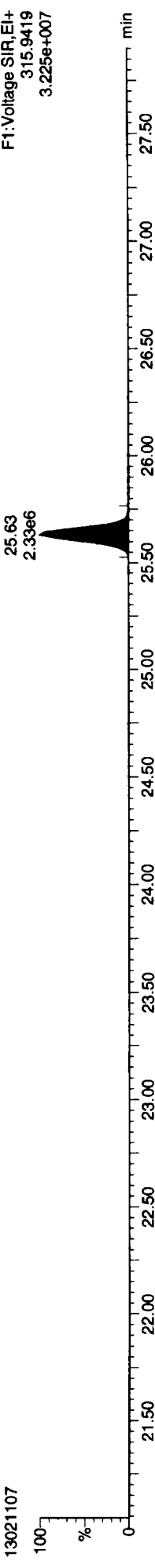


57 25 55 14 55

Dataset: P:\DIOXIN8290.PRO\13021107.D  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

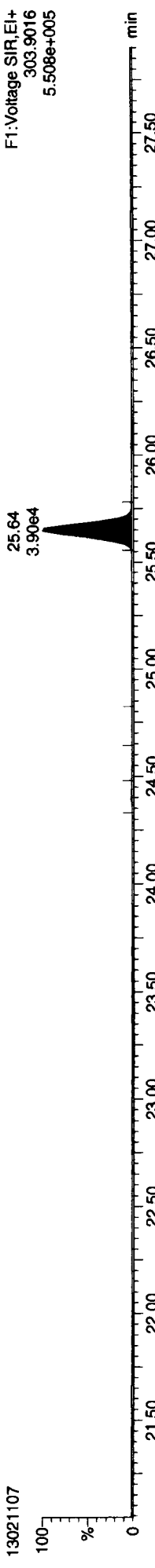
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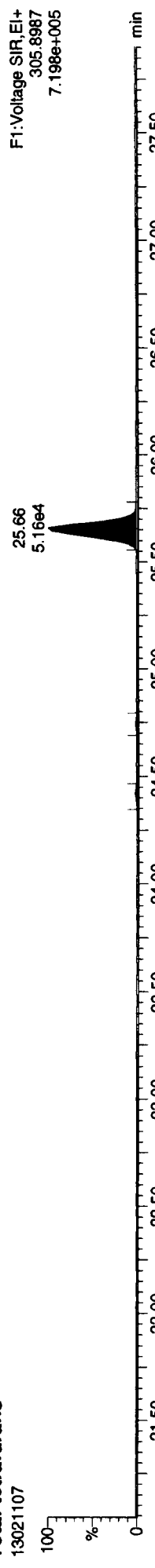
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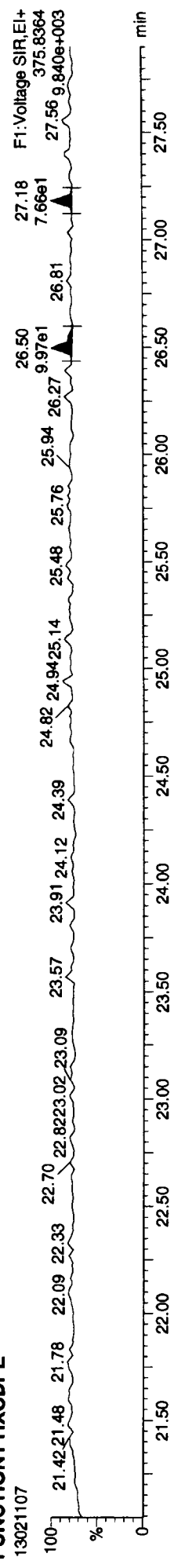
Total-tetrafurans



Total-tetrafurans

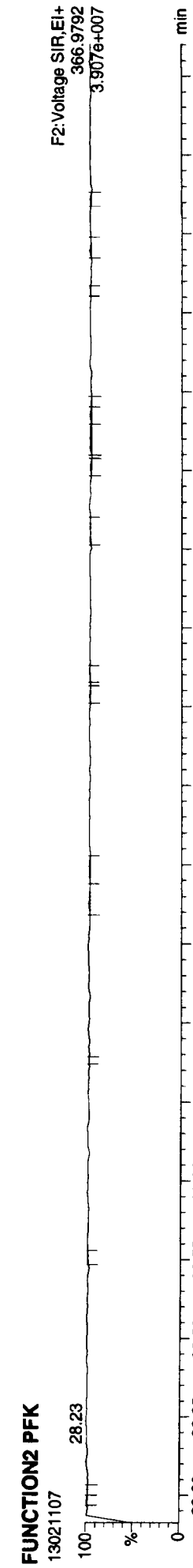
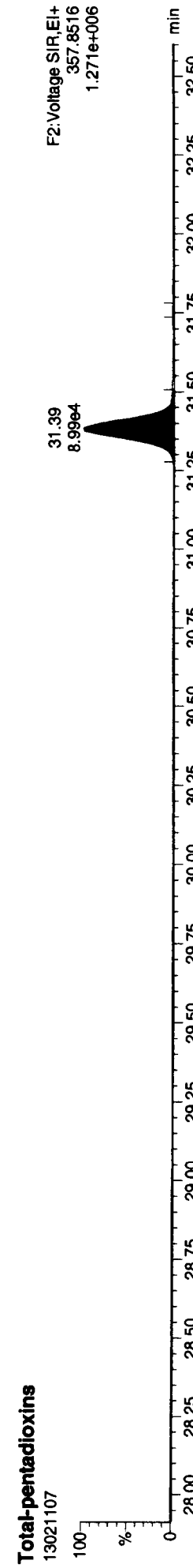
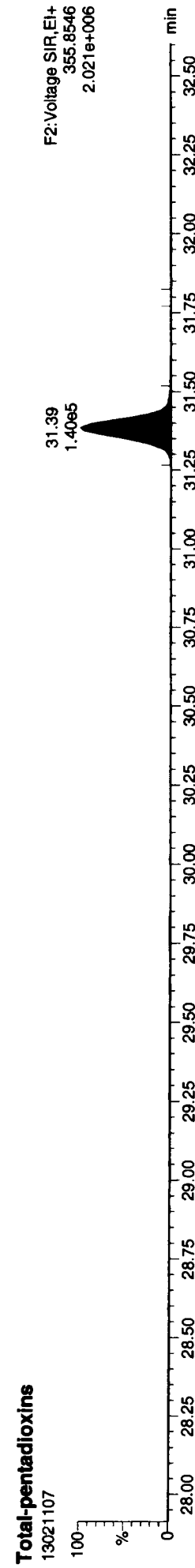
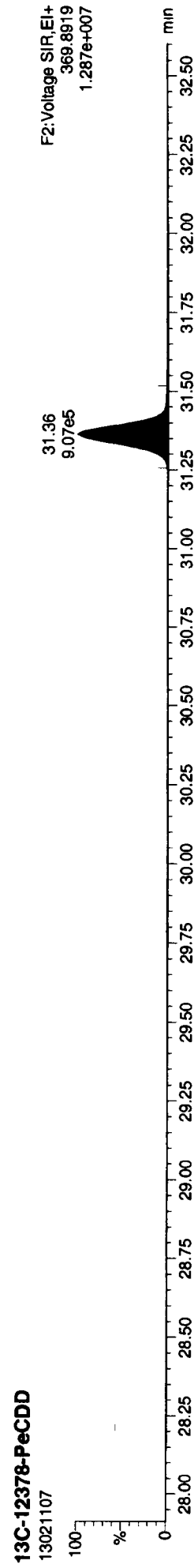
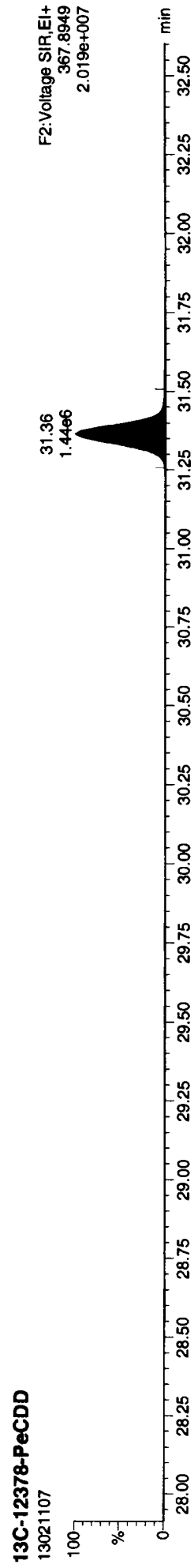


FUNCTION1 HXCDFE



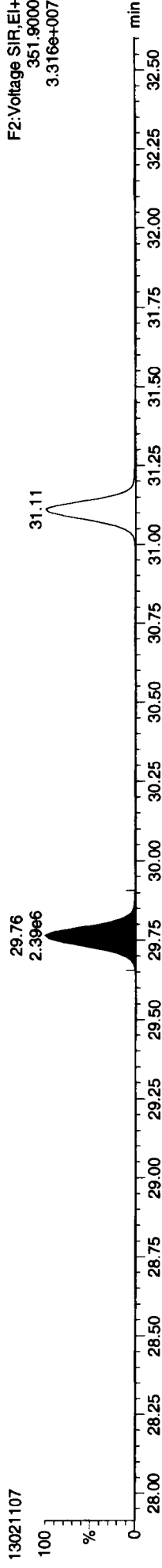
Dataset: P:\DIOXIN8290.PRO\13021107.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

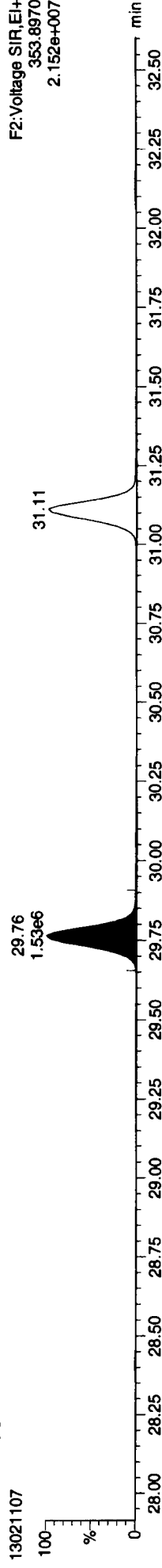


ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

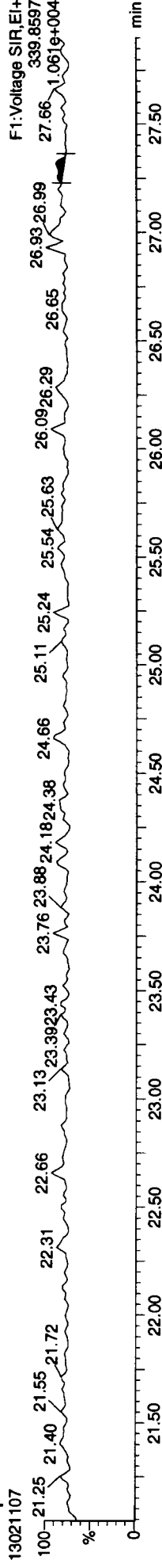
13C-12378-PeCDF



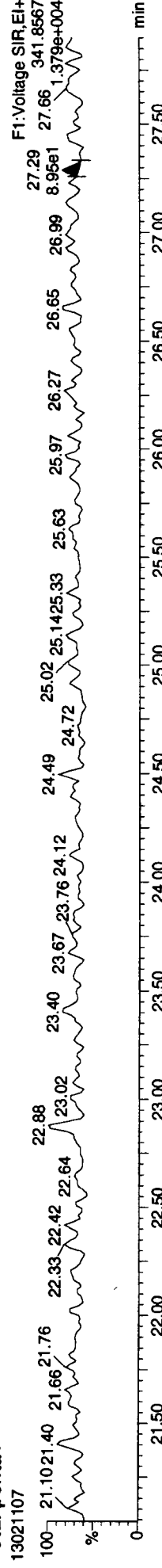
13C-12378-PeCDF



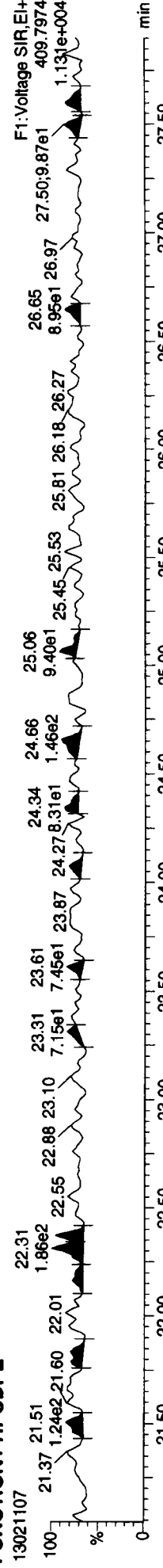
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

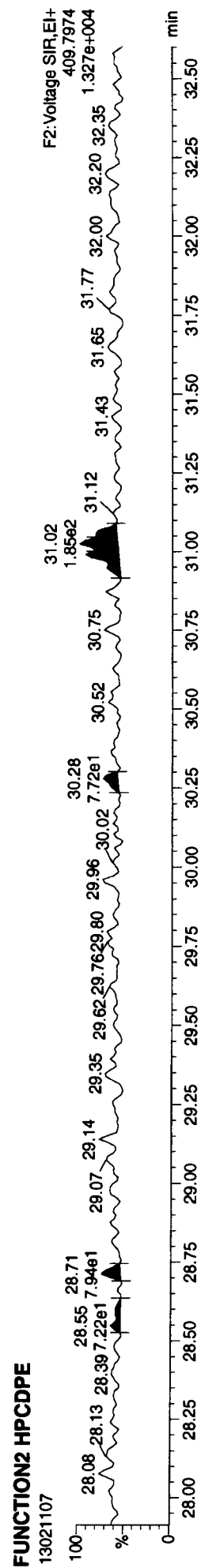
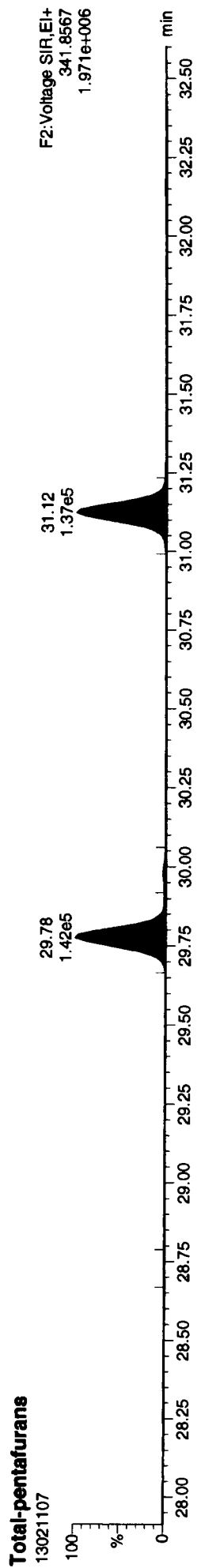
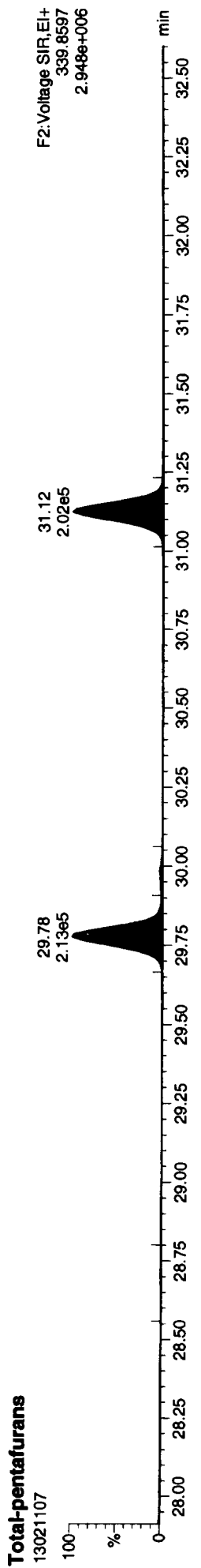
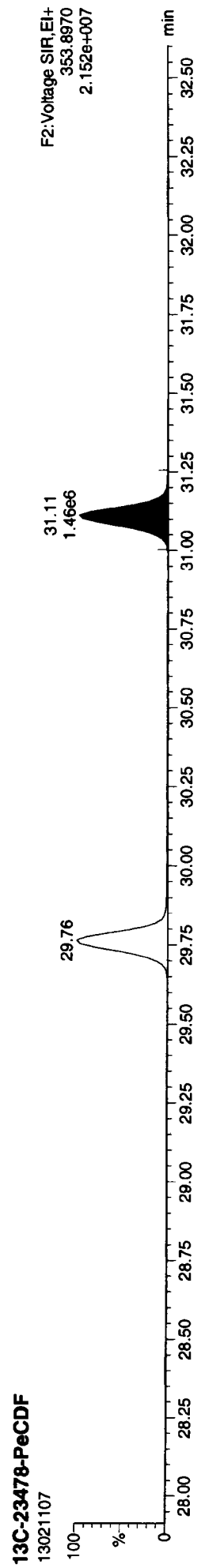
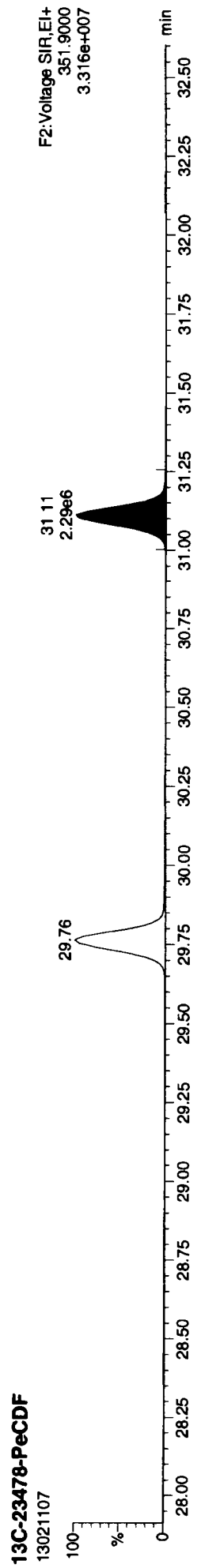




Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\D\OXIN8290.PRO\13021107.D  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

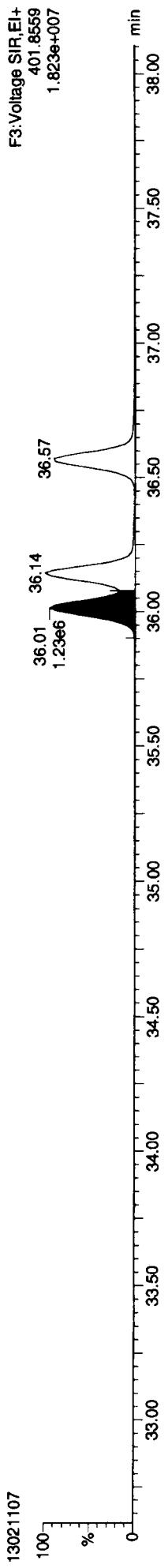
ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk



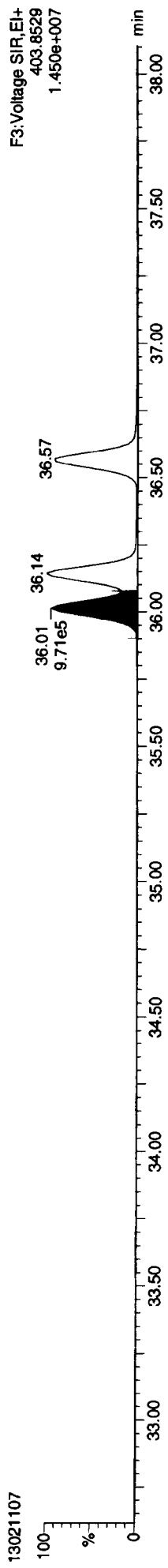
Dataset: P:\DIOXIN8290.PRO\13021107.d  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

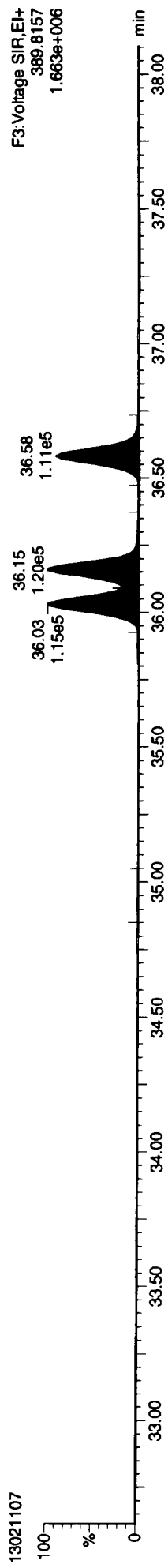
13C-123478-HxCDD



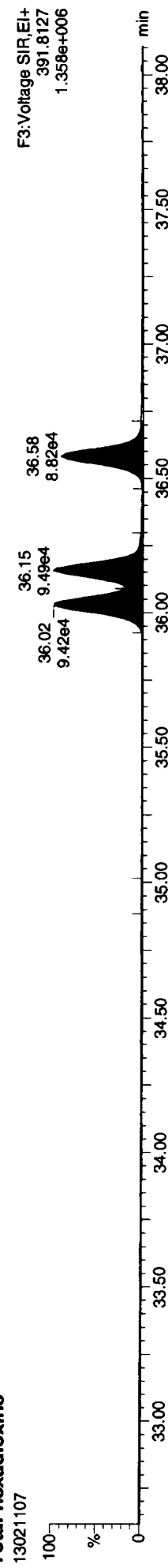
13C-123478-HxCDD



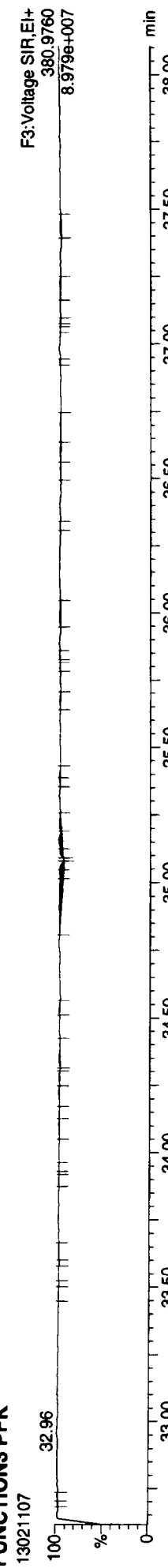
Total-hexadioxins



Total-hexadioxins

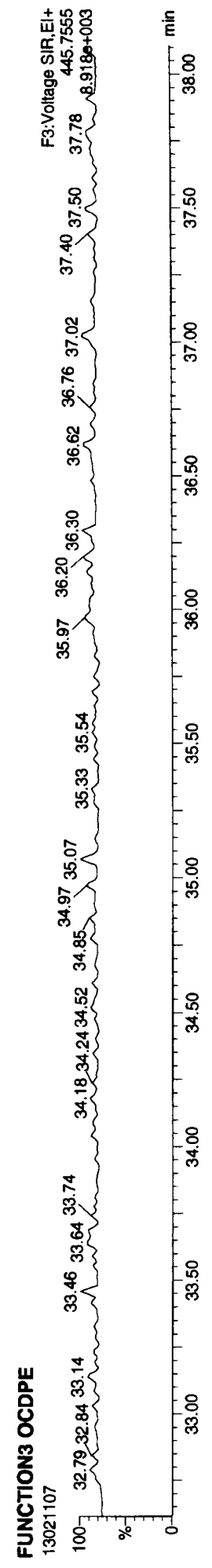
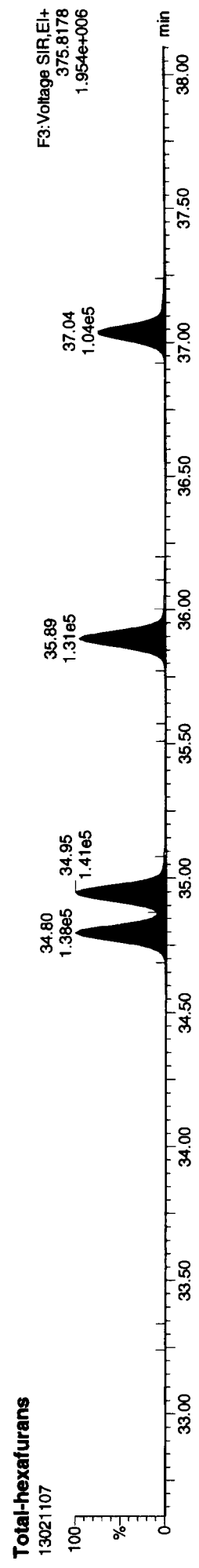
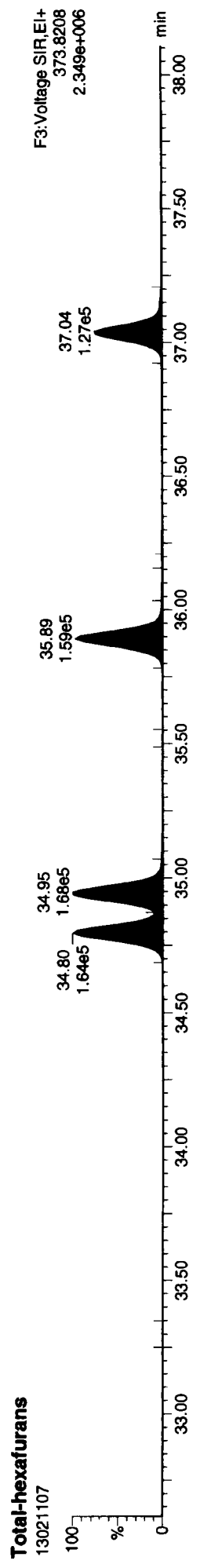
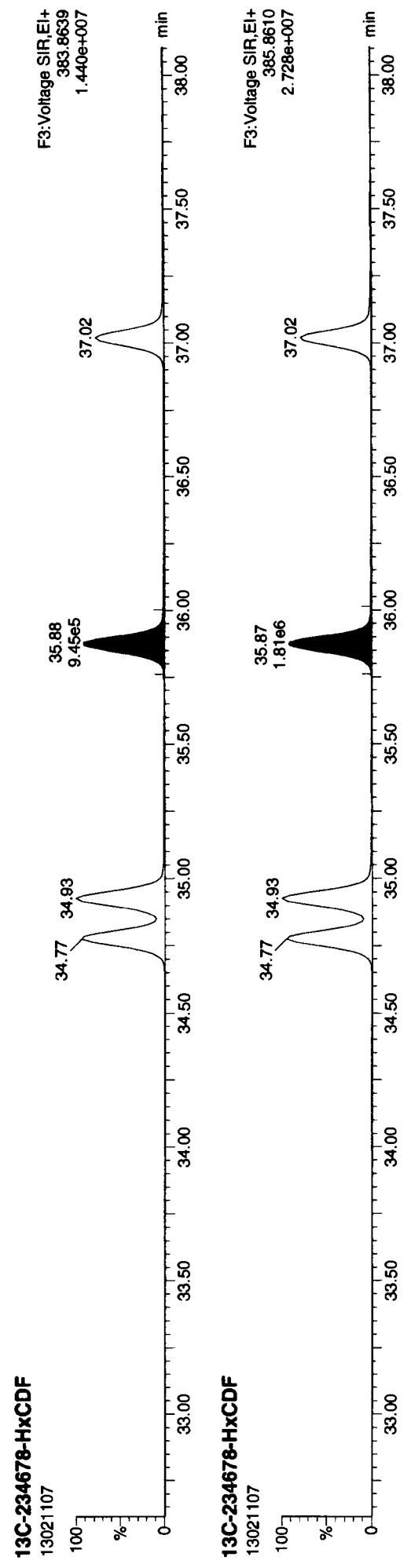


FUNCTION3 PFK



Quantify Sample Report  
MascLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021107.D  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

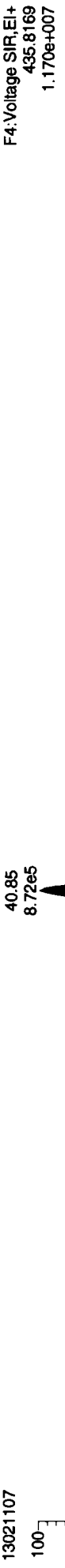


13021107

Dataset: P:\DIOXIN8290.PRO\13021107.d  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



13C-1234678-HpCDD



Total-heptadioxins



Total-heptadioxins

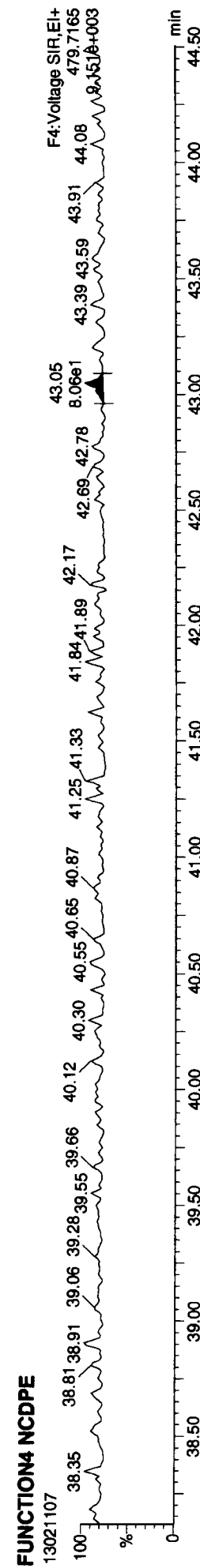
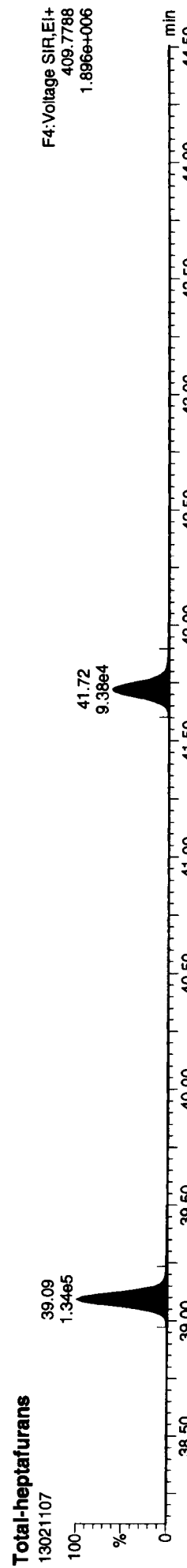
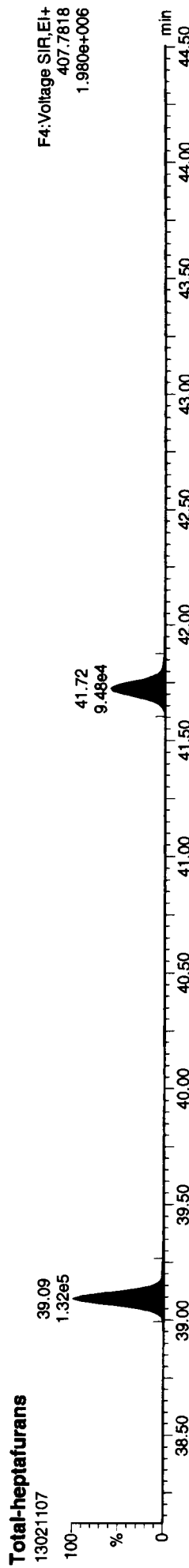
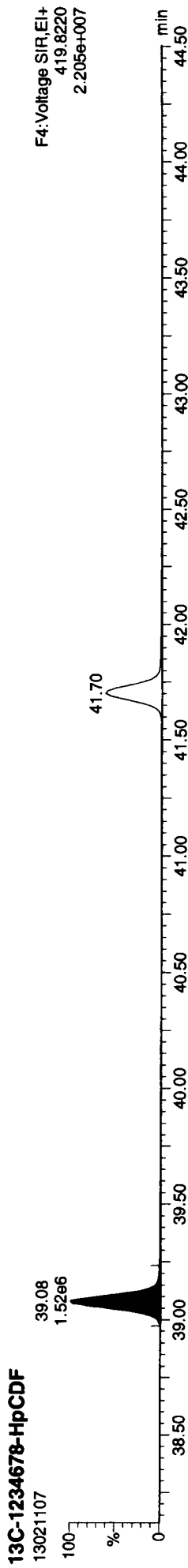
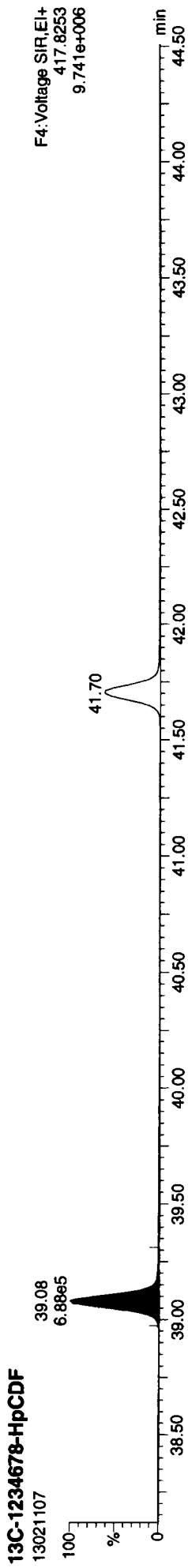


FUNCTION4 PFK



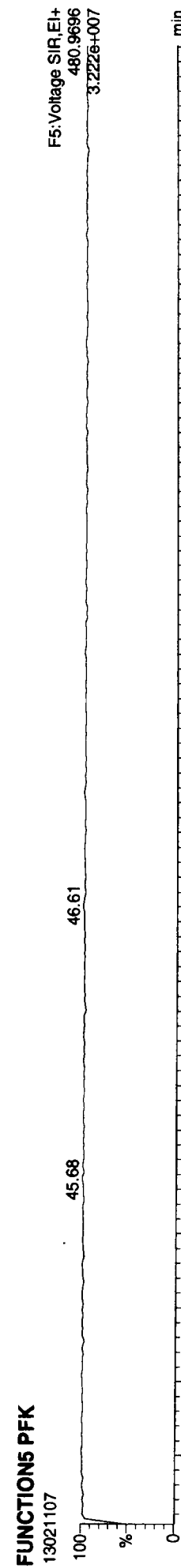
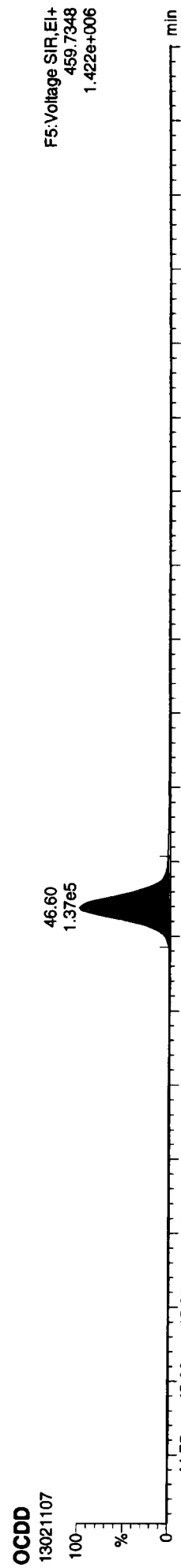
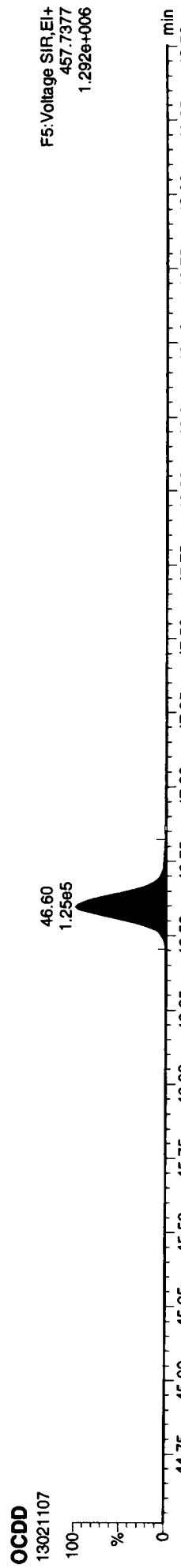
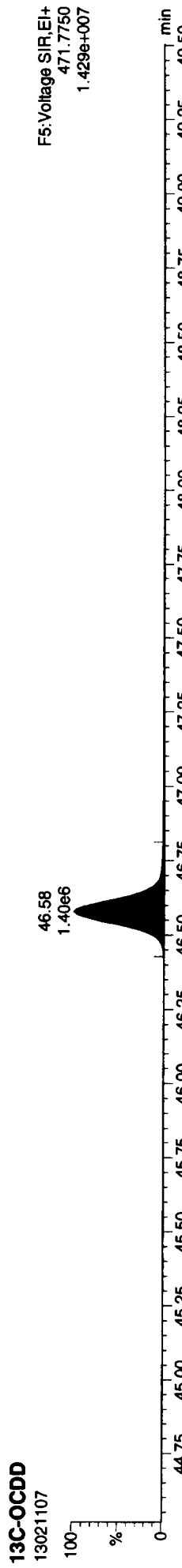
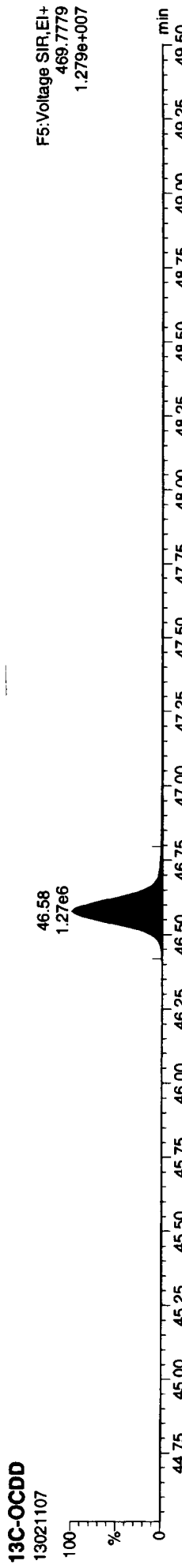
Dataset: P:\DIOXIN8290.PRO\13021107.D  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\13021101.d  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

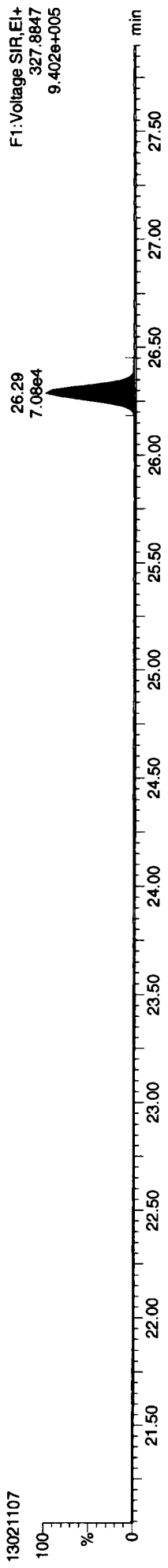


Quantify Sample Report MassLynx 4.1 SCN 714

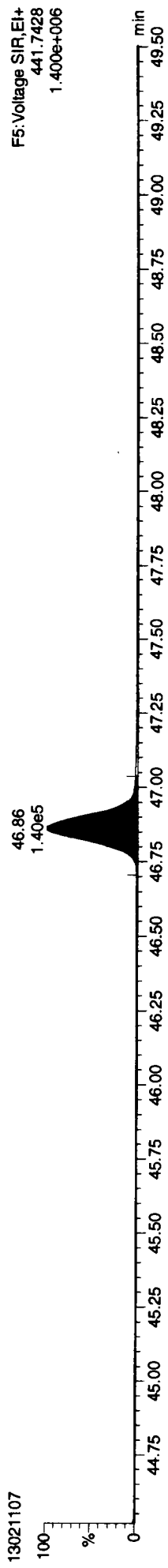
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:09 Pacific Standard Time

ID: CS2, Name: 13021107, Date: 11-Feb-2013, Time: 16:30:49, Conditions: AUTOSPEC01, User: pk

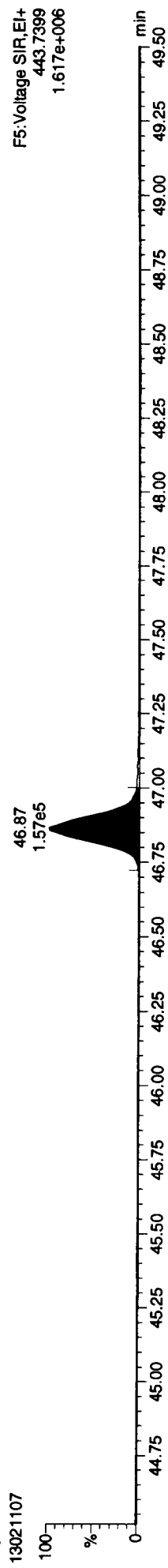
37CL-2376-TCDD



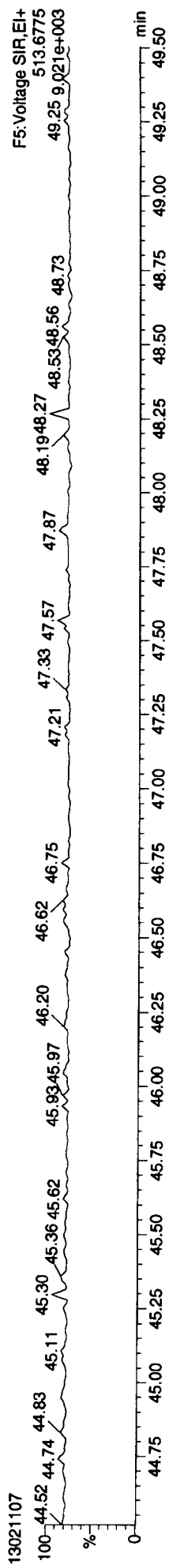
OCDF



OCDF



FUNCTION5 DCDPE



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\1302111CAL.cdb 12 Feb 2013 09:29:24

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

2378-TCDF	25.645	1.001	1.39e5	1.84e5	0.821	0.754	0.770	894.9	NO	9.601	9.601
12378-PeCDF	29.764	1.000	7.87e5	5.09e5	0.912	1.546	1.550	2970.7	NO	49.730	49.730
23478-PeCDF	31.112	1.000	7.74e5	5.11e5	0.943	1.514	1.550	2985.5	NO	49.316	49.316
123478-HxCDF	34.785	1.001	6.36e5	5.21e5	1.101	1.221	1.240	2657.3	NO	49.302	49.302
234678-HxCDF	35.881	1.001	6.20e5	5.19e5	1.073	1.196	1.240	2585.2	NO	49.934	49.934
123678-HxCDF	34.938	1.001	6.67e5	5.43e5	1.056	1.228	1.240	2671.7	NO	49.431	49.431
123789-HxCDF	37.021	1.000	5.09e5	4.11e5	1.017	1.236	1.240	2032.1	NO	49.060	49.060
1234678-HpCDF	39.081	1.000	5.45e5	5.45e5	1.238	1.000	1.050	4224.4	NO	49.088	49.088
1234789-HpCDF	41.712	1.001	4.01e5	3.97e5	1.224	1.009	1.050	2558.0	NO	49.663	49.663
OCDF	46.849	1.006	6.16e5	7.04e5	1.162	0.875	0.890	3240.3	NO	100.342	100.342
2378-TCDD	26.287	1.001	1.03e5	1.28e5	1.106	0.803	0.770	806.8	NO	9.293	9.293
12378-PeCDD	31.376	1.001	5.27e5	3.41e5	1.001	1.549	1.550	2999.5	NO	49.996	49.996
123478-HxCDD	36.023	1.001	4.57e5	3.76e5	0.978	1.217	1.240	2053.2	NO	49.550	49.550
123678-HxCDD	36.144	1.000	4.60e5	3.81e5	0.929	1.208	1.240	2066.2	NO	50.518	50.518
123789-HxCDD	36.571	1.012	4.34e5	3.49e5	0.904	1.243	1.240	1939.9	NO	49.368	49.368
1234678-HpCDD	40.846	1.000	3.55e5	3.47e5	1.029	1.023	1.050	1970.1	NO	49.146	49.146
OCDD	46.589	1.000	5.36e5	5.98e5	1.011	0.896	0.890	3763.3	NO	99.043	99.043
13C-2378-TCDF	25.630	1.007	1.58e6	2.06e6	1.522	0.768	0.770	8265.3	NO	98.827	98.827
13C-12378-PeCDF	29.753	1.169	1.75e6	1.11e6	1.185	1.577	1.550	8357.0	NO	99.447	99.447
13C-23478-PeCDF	31.101	1.222	1.68e6	1.08e6	1.136	1.562	1.550	8040.3	NO	100.456	100.456
13C-123478-HxCDF	34.763	0.951	7.25e5	1.41e6	1.284	0.515	0.510	3871.8	NO	99.521	99.521
13C-123678-HxCDF	34.916	0.955	7.84e5	1.53e6	1.383	0.512	0.510	4189.6	NO	100.406	100.406
13C-234678-HxCDF	35.859	0.981	7.28e5	1.40e6	1.283	0.521	0.510	3929.4	NO	99.284	99.284
13C-123789-HxCDF	37.010	1.012	6.35e5	1.21e6	1.099	0.525	0.510	3249.0	NO	100.500	100.500
13C-1234678-HpCDF	39.070	1.069	5.53e5	1.24e6	1.070	0.446	0.440	3986.9	NO	100.425	100.425
13C-1234789-HpCDF	41.690	1.140	3.95e5	9.18e5	0.774	0.430	0.440	2437.4	NO	101.703	101.703
13C-1234-TCDD	25.451	0.000	1.07e6	1.35e6	1.000	0.788	0.770	4071.0	NO	100.000	100.000
13C-2378-TCDD	26.257	1.032	9.84e5	1.26e6	0.943	0.780	0.770	3661.1	NO	98.291	98.291
13C-12378-PeCDD	31.354	1.232	1.08e6	6.89e5	0.715	1.590	1.550	9642.2	NO	100.089	100.089
13C-123478-HxCDD	36.001	0.985	9.61e5	7.57e5	1.032	1.270	1.240	6467.6	NO	99.761	99.761
13C-123678-HxCDD	36.133	0.988	1.00e6	7.91e5	1.076	1.264	1.240	6604.1	NO	99.756	99.756
13C-1234678-HpCDD	40.835	1.117	7.10e5	6.80e5	0.838	1.044	1.050	5401.8	NO	99.440	99.440
13C-OCDD	46.571	1.274	1.06e6	1.20e6	0.675	0.887	0.890	4617.9	NO	200.935	200.935

13021108



Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

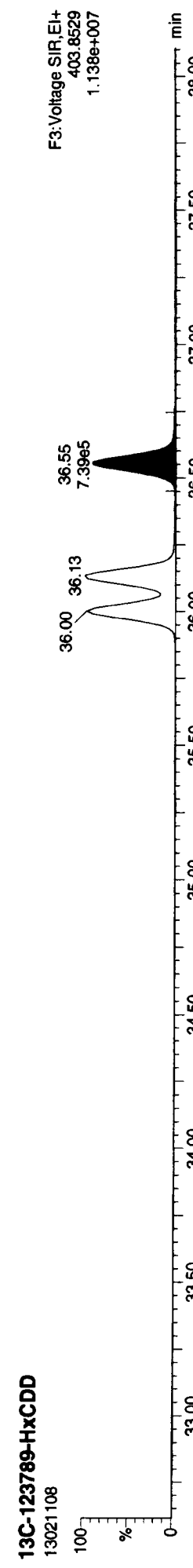
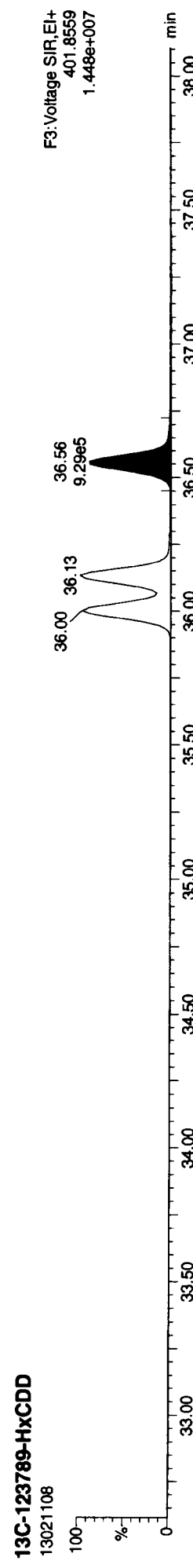
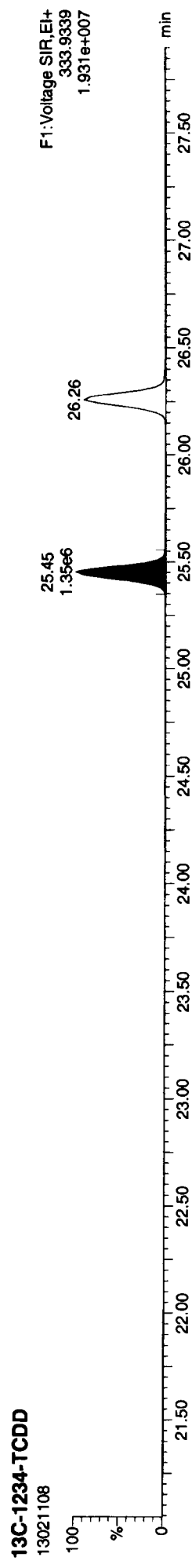
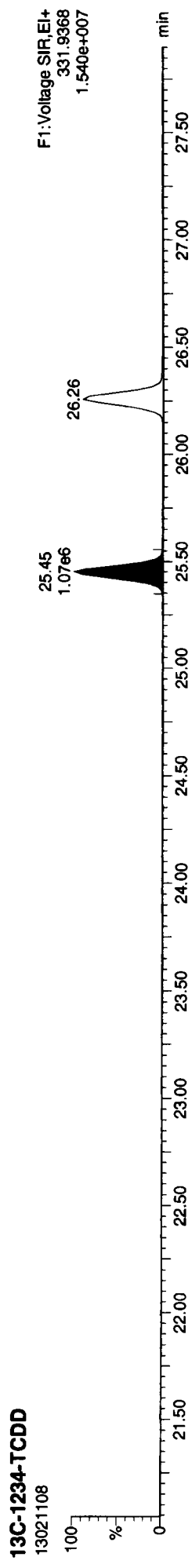
13C-123789-HxCDD	36.560	0.000	9.29e5	7.39e5	1.000	1.257	1.240	5943.8	NO	100.000
Total-tetrafurans			4.48e5		0.921					30.800
Total-penta1			1.04e6							66.870
Total-pentafurans			2.36e6		0.927					149.827
Total-hexafurans			3.20e6		1.062					259.881
Total-heptafurans			9.47e5		1.231					98.899
Total-Furans			8.61e6		1.065					706.641
Total-tetradioxins			5.93e5		1.106					53.966
Total-pentadioxins			1.87e6		1.001					176.945
Total-hexadioxins			1.99e6		0.937					219.171
Total-heptadioxins			7.99e5		1.029					109.572
Total-Dioxins			5.78e6		0.994					658.698
Total-TEQ			1.44e7							1365.339
37CL-2378-TCDD	26.287	1.033	2.41e5		1.051		1766.3			9.448
FUNCTION1 PFK			4.87e5							0.000
FUNCTION2 PFK			5.21e5							0.000
FUNCTION3 PFK			2.60e5							0.000
FUNCTION4 PFK			1.45e6							
FUNCTION5 PFK			1.11e7							
FUNCTION1 HXCDPE			3.67e2							0.000
FUNCTION1 HPCDPE			8.59e2							0.000
FUNCTION2 HPCDPE			1.88e3							0.000
FUNCTION3 OGDPE			0.00e0							0.000
FUNCTION4 NCDPE			0.00e0							0.000
FUNCTION5 DCDPE			0.00e0							0.000

44 20 00 14

Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DiDioxin\130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

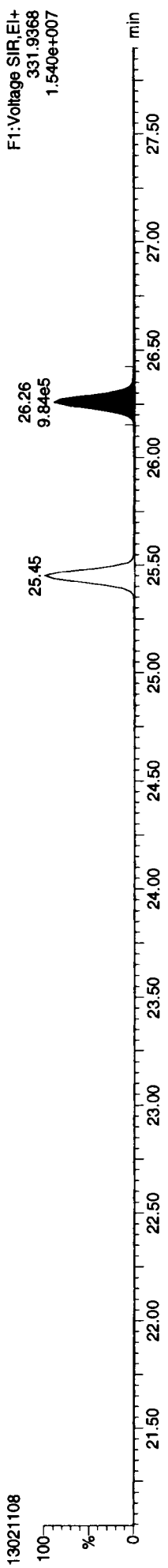
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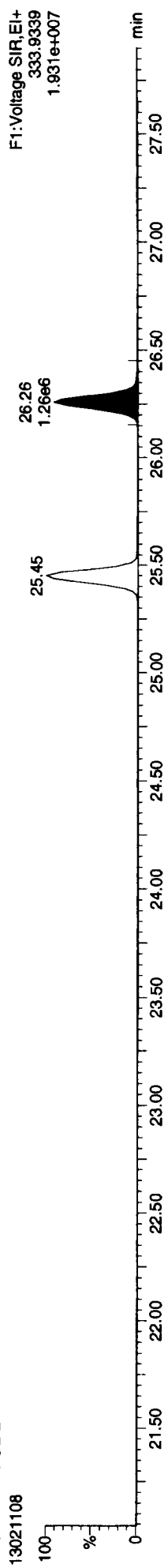
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

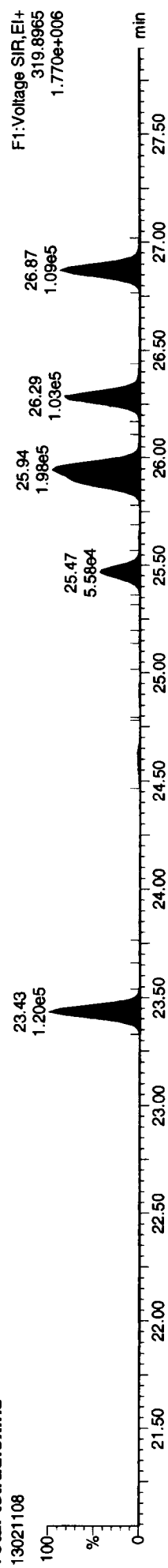
13C-2378-TCDD  
13021108



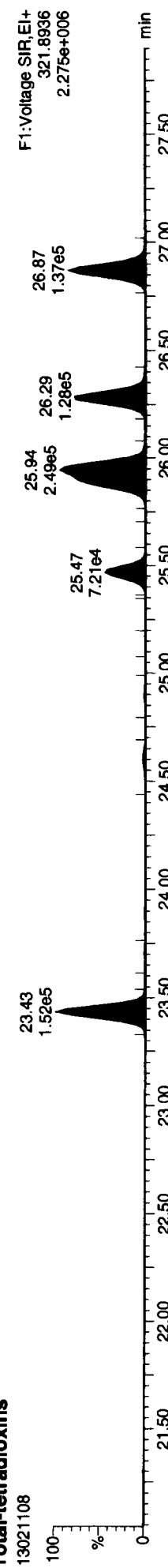
13C-2378-TCDD  
13021108



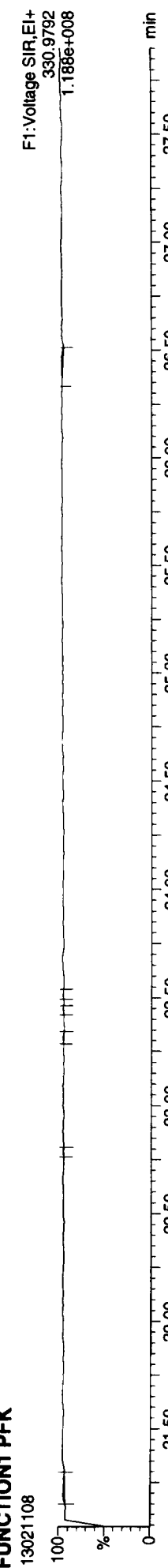
Total-tetradioxins  
13021108



Total-tetradioxins  
13021108

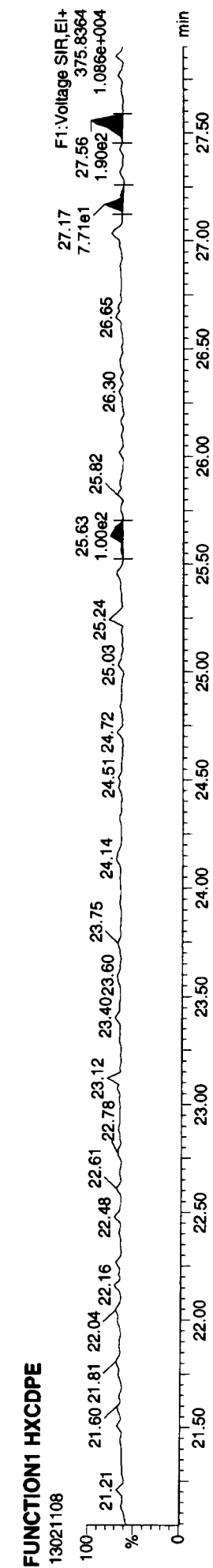
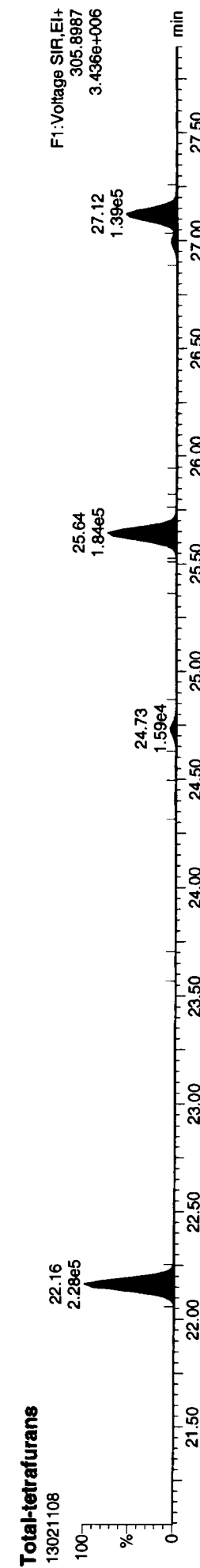
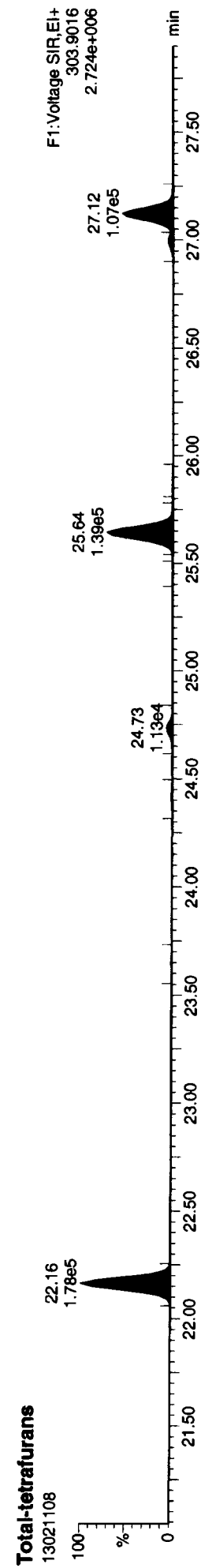
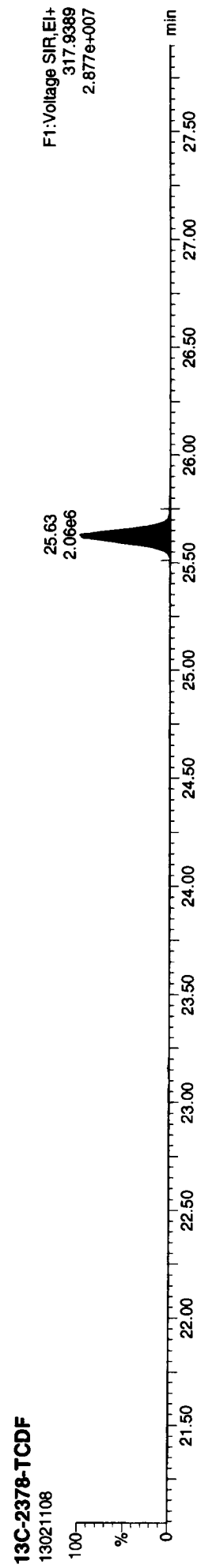
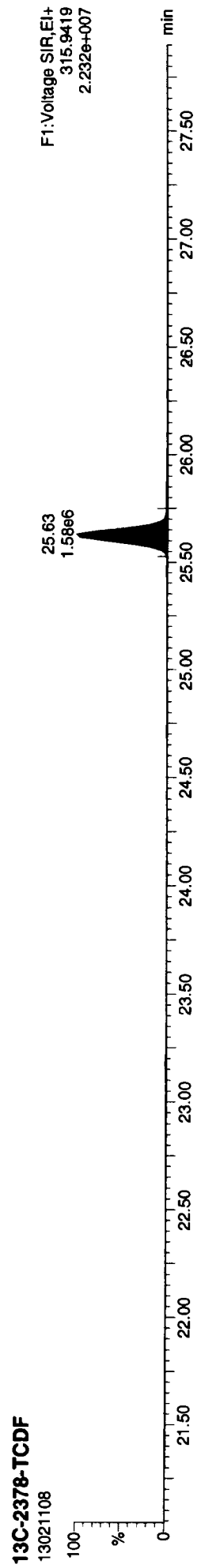


FUNCTION1 PFK  
13021108



Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

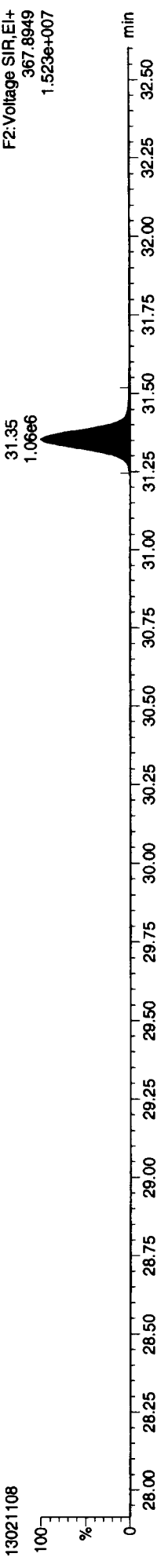
ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk



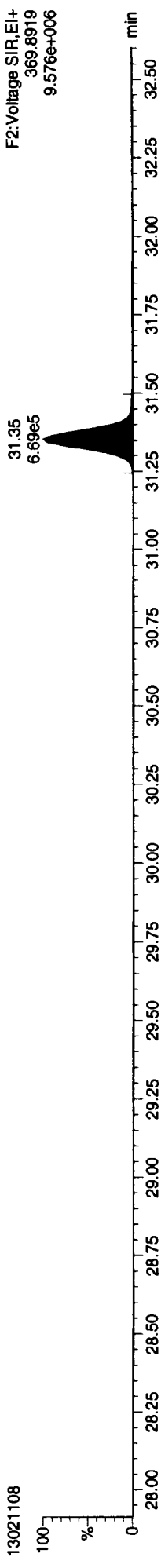
Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

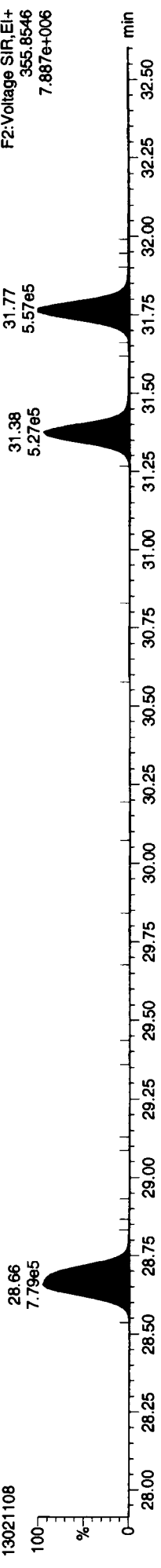
13C-12378-PeCDD



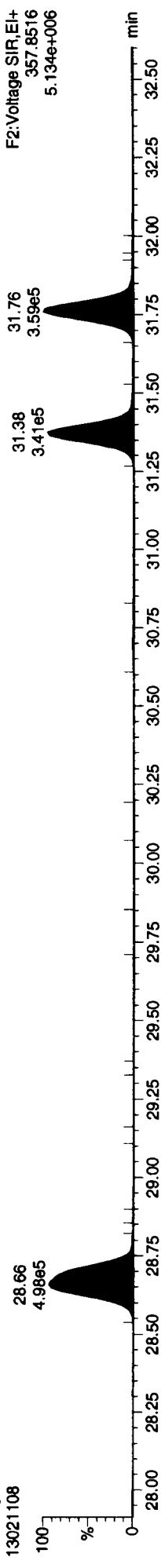
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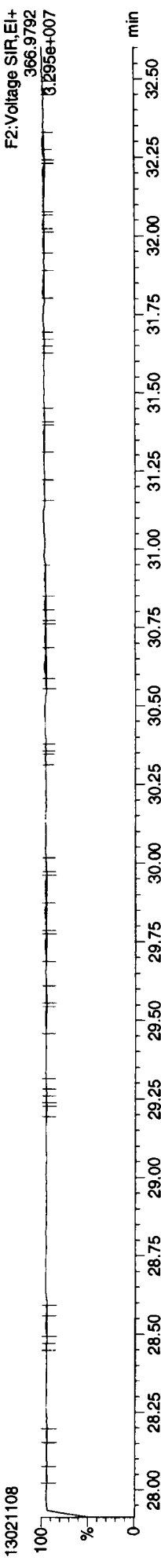
Total-pentadioxins



Total-pentadioxins

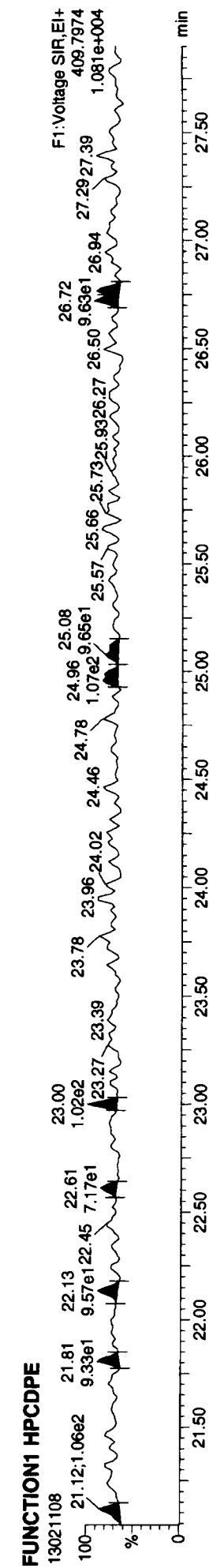
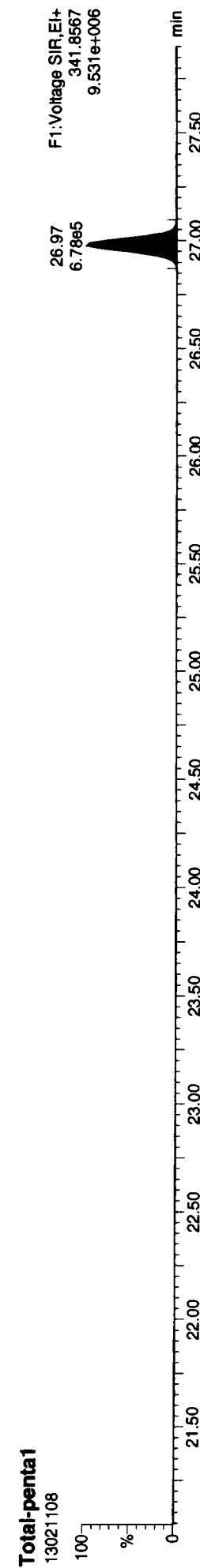
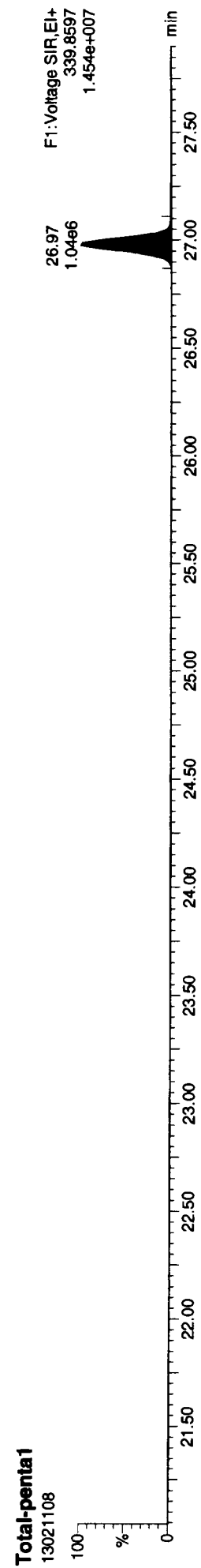
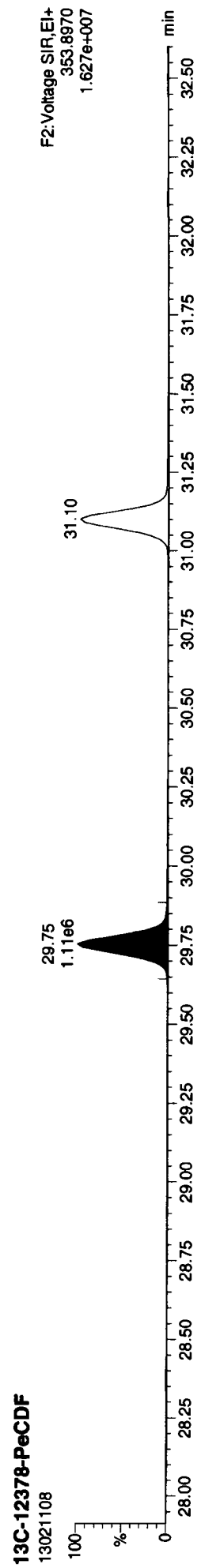
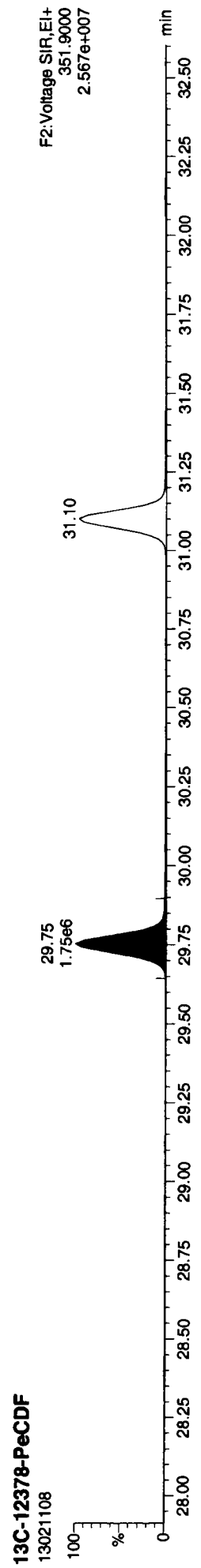


FUNCTION2 PFK



Quantity Sample Report Masslynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk



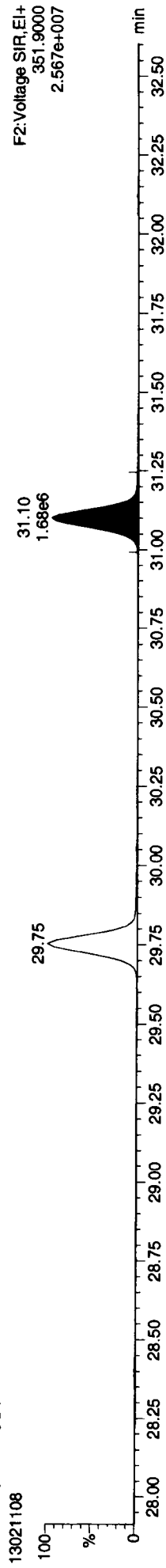
Dataset: P:\DIOXIN8290.PRO\13021108.qld

Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

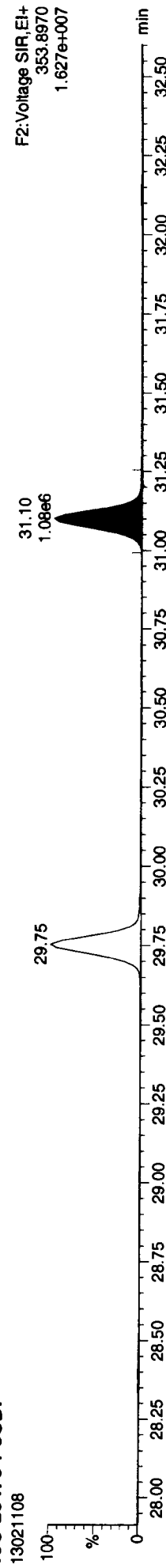
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

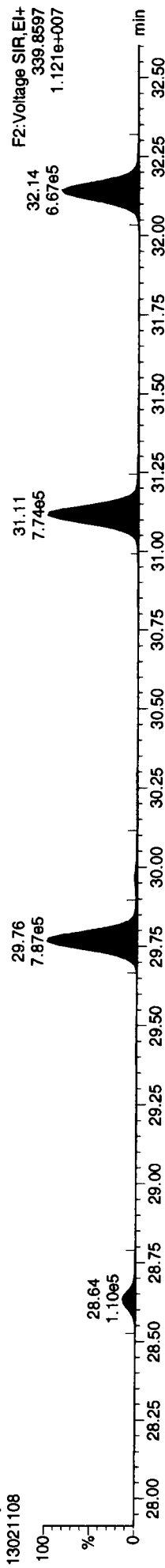
13C-23478-PeCDF



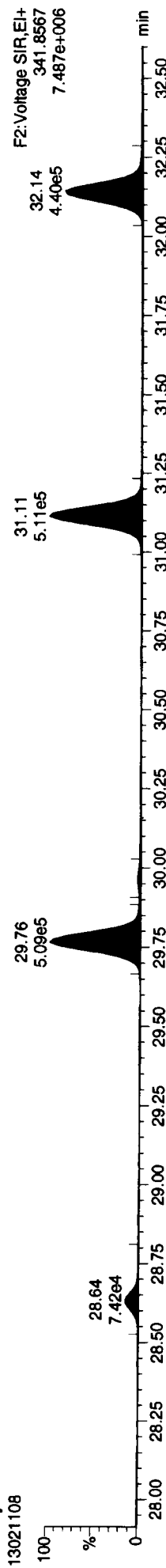
13C-23478-PeCDF



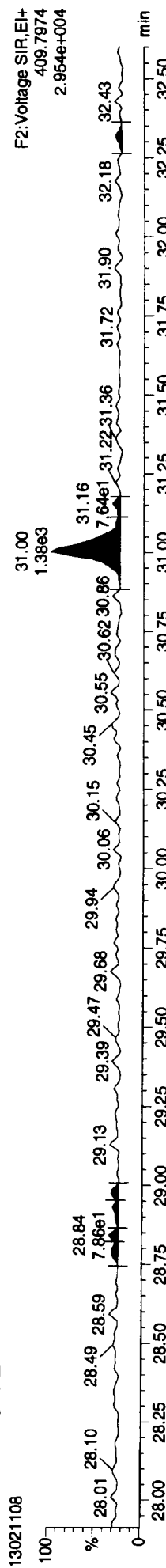
Total-pentafurans



Total-pentafurans



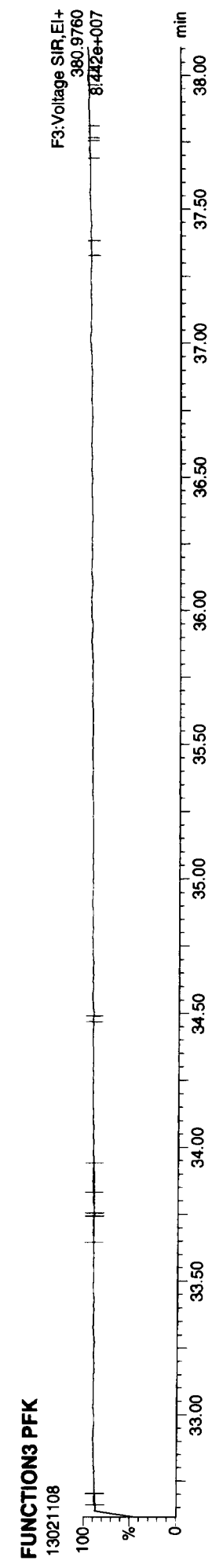
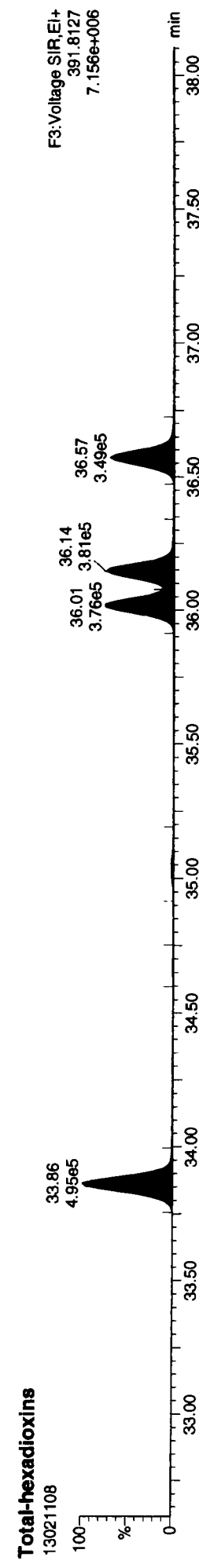
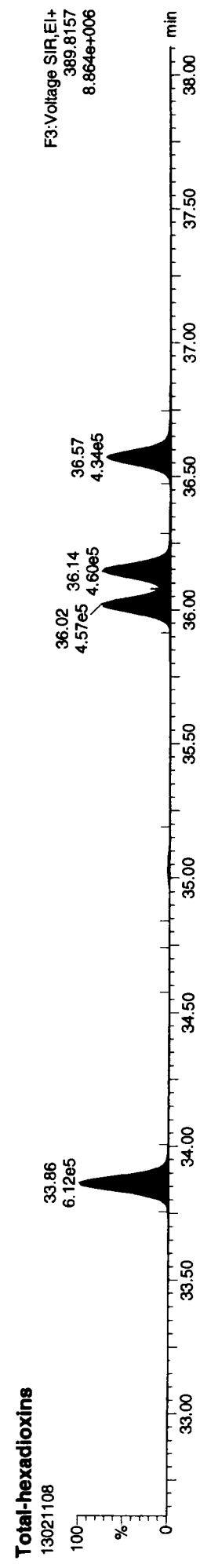
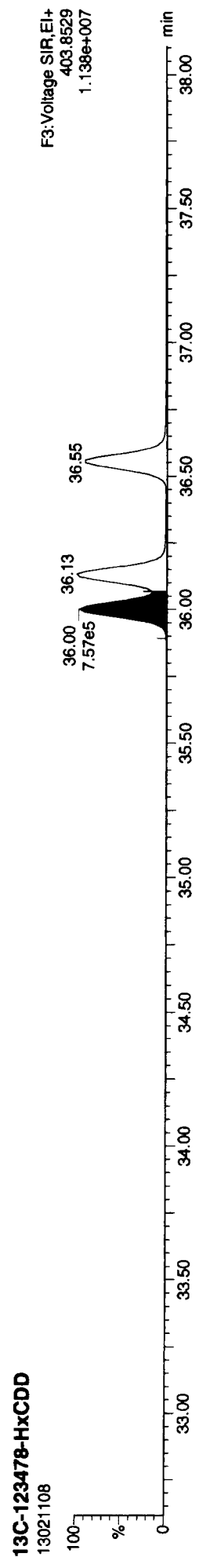
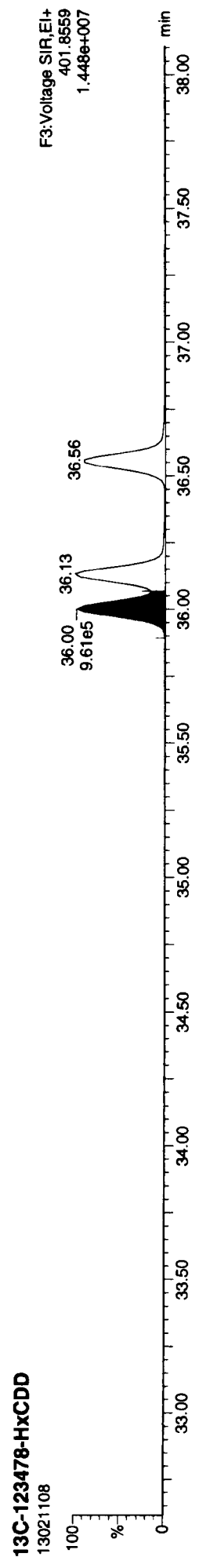
FUNCTION2 HPCDPE



57 20 68 10

Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

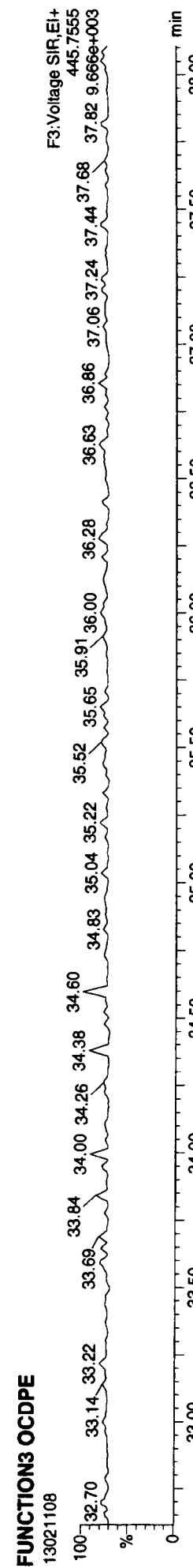
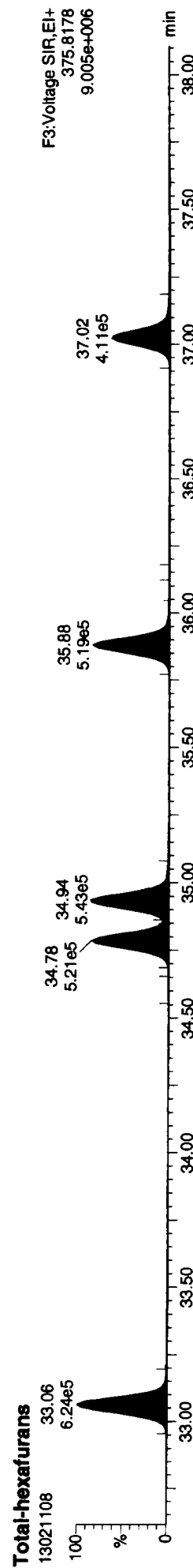
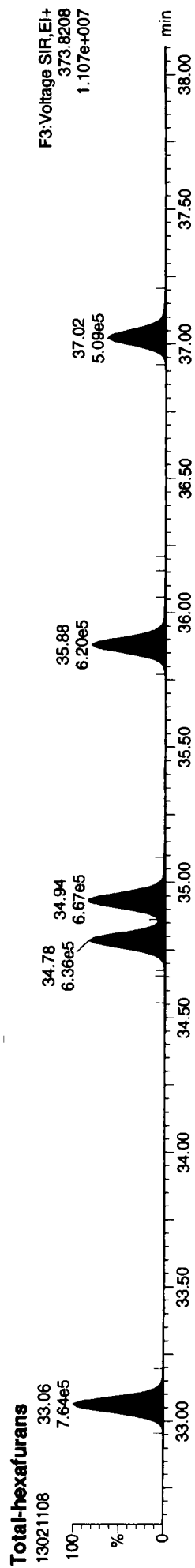
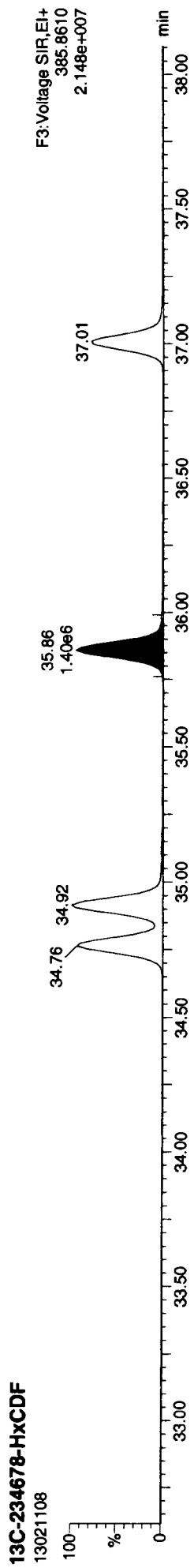
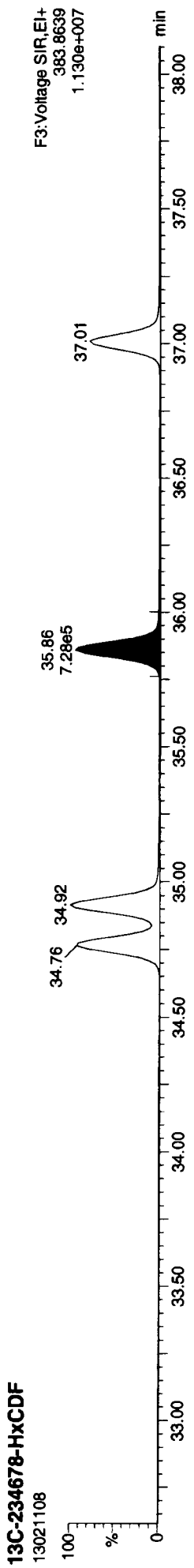


13021108 091213



Dataset: P:\DIOXIN8290.PRO\13021108.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk



13021108

Dataset: P:\DIOXIN8290.PRO\13021108.qld

Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



13C-1234678-HpCDD



Total-heptadioxins



Total-heptadioxins



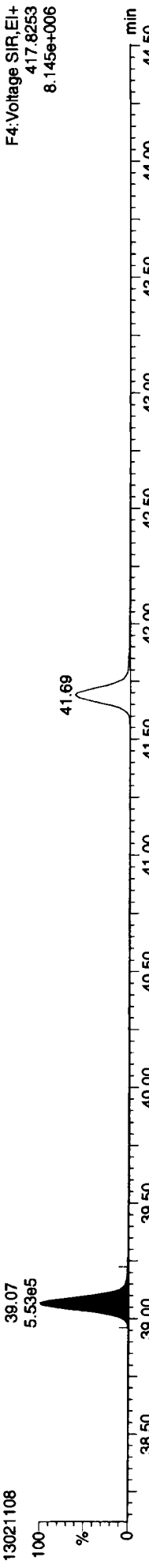
FUNCTION4 PFK



Dataset: P:\DIOXIN8290.PRO\13021108.d  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

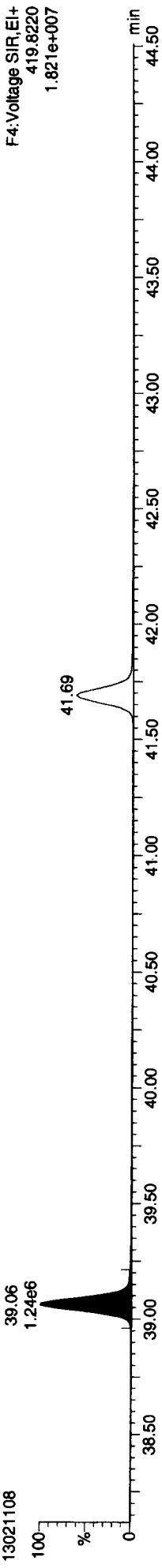
ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



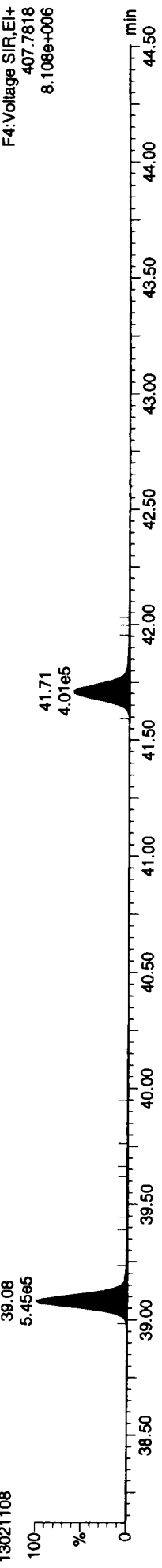
F4: Voltage SIR, EI+  
417.8253  
8.145e+006

13C-1234678-HpCDF



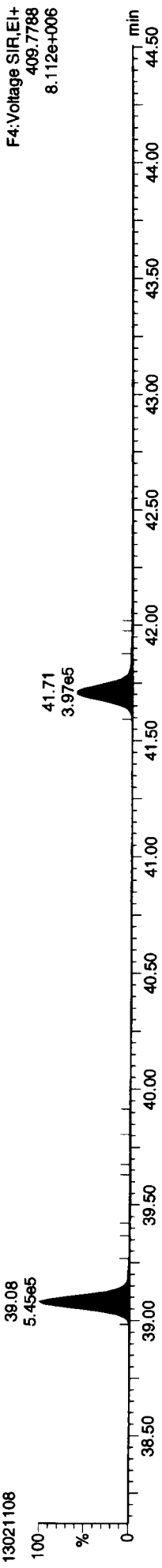
F4: Voltage SIR, EI+  
419.8220  
1.821e+007

Total-heptafurans



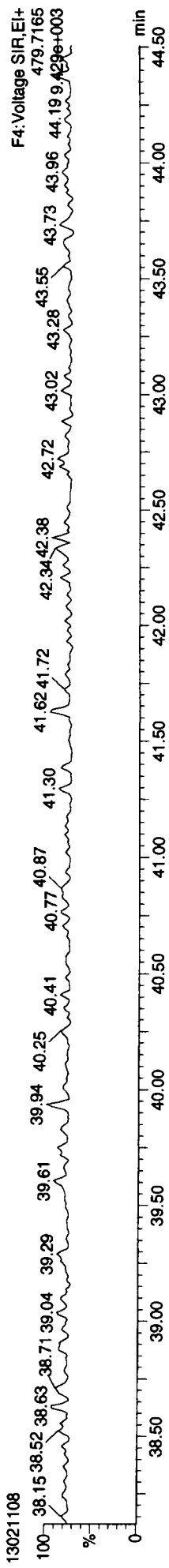
F4: Voltage SIR, EI+  
407.7818  
8.108e+006

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
8.112e+006

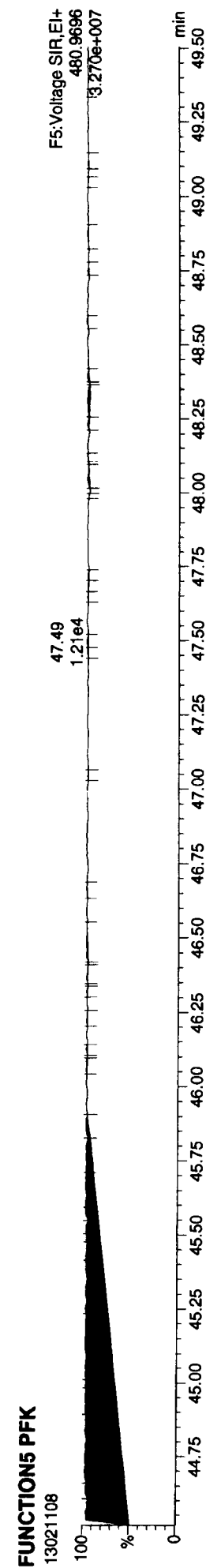
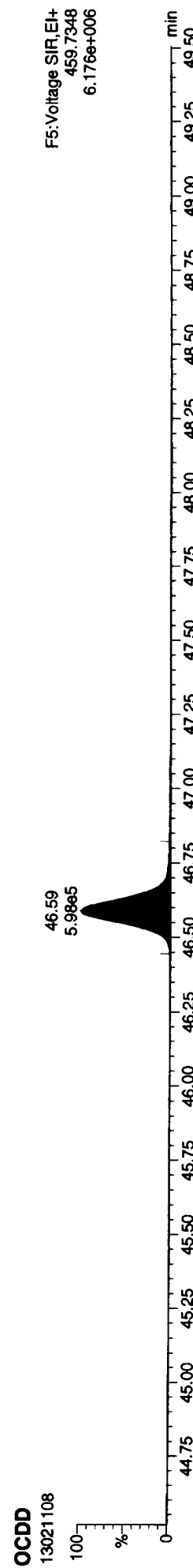
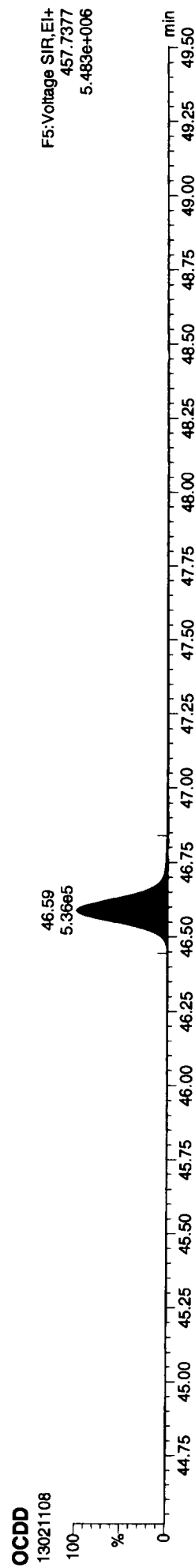
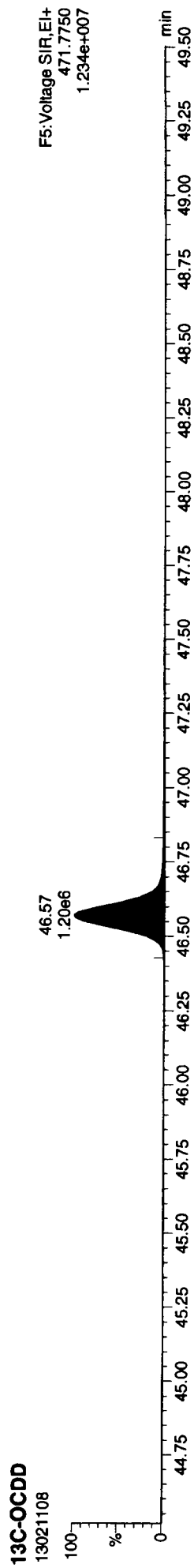
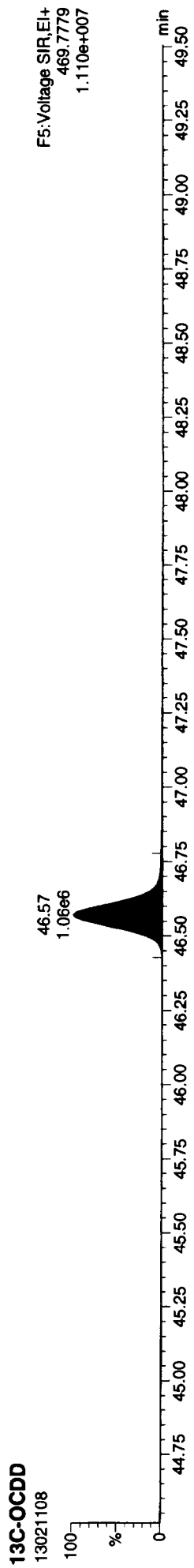
FUNCTION4 NCDPE



F4: Voltage SIR, EI+  
479.7165  
44.199429e+003

Dataset: P:\DIOXIN8290.PRO\13021108.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk



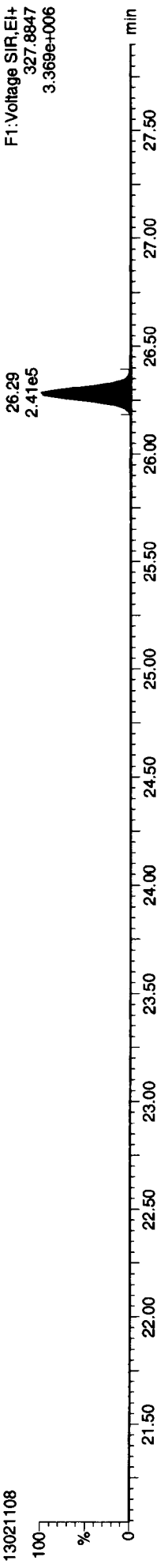
57 10 : 08 10 00

Quantity Sample Report MassLynx 4.1 SCN 714

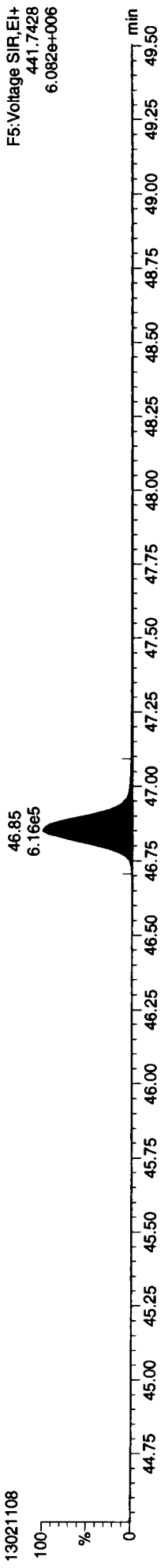
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:19 Pacific Standard Time

ID: CS3, Name: 13021108, Date: 11-Feb-2013, Time: 17:23:26, Conditions: AUTOSPEC01, User: pk

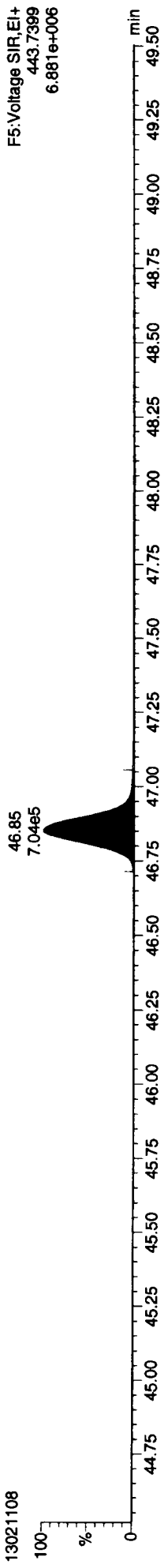
37CL-2378-TCDD



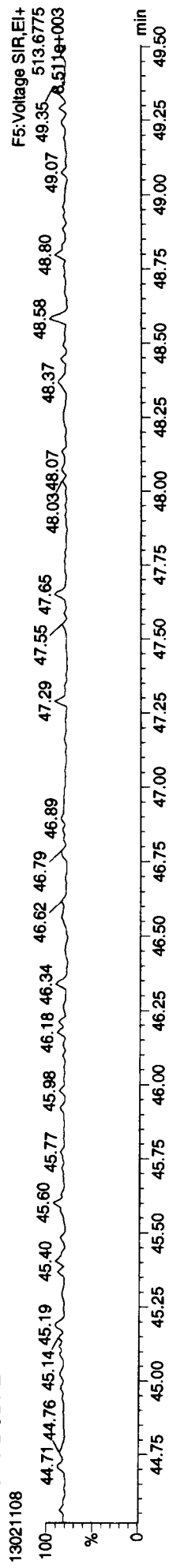
OCDF



OCDF



FUNCTION5 DCDPE



57 20 : 09:20

Quantity Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\13021109.CAL.cdb 12 Feb 2013 09:29:24

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

2378-TCDF	25.645	1.001	9.82e5	1.24e6	0.921	0.773	0.770	11517.8	NO	38.802	38.802
12378-PeCDF	29.776	1.000	5.34e6	3.48e6	0.912	1.535	1.550	22016.6	NO	204.441	204.441
23478-PeCDF	31.124	1.000	5.15e6	3.40e6	0.943	1.515	1.550	21879.3	NO	201.853	201.853
123478-HxCDF	34.796	1.001	4.01e6	3.29e6	1.101	1.219	1.240	10685.5	NO	199.678	199.678
234678-HxCDF	35.893	1.001	3.94e6	3.23e6	1.073	1.219	1.240	10547.5	NO	203.646	203.646
123678-HxCDF	34.939	1.000	4.25e6	3.47e6	1.056	1.224	1.240	10924.9	NO	205.904	205.904
123789-HxCDF	37.033	1.000	3.24e6	2.84e6	1.017	1.227	1.240	8957.5	NO	202.090	202.090
1234678-HpCDF	39.093	1.000	3.48e6	3.46e6	1.238	1.006	1.050	12120.2	NO	203.696	203.696
1234789-HpCDF	41.724	1.001	2.51e6	2.47e6	1.224	1.014	1.050	7530.0	NO	204.460	204.460
OCDF	46.859	1.006	3.95e6	4.48e6	1.162	0.882	0.890	17865.0	NO	408.614	408.614
2378-TCDD	26.288	1.001	7.01e5	9.08e5	1.106	0.772	0.770	10622.7	NO	38.483	38.483
12378-PeCDD	31.387	1.001	3.47e6	2.24e6	1.001	1.553	1.550	28710.7	NO	202.386	202.386
123478-HxCDD	36.024	1.000	2.93e6	2.36e6	0.978	1.243	1.240	11264.6	NO	201.633	201.633
123678-HxCDD	36.155	1.000	2.88e6	2.33e6	0.929	1.236	1.240	11082.1	NO	203.156	203.156
123789-HxCDD	36.583	1.012	2.76e6	2.22e6	0.904	1.243	1.240	10504.1	NO	202.465	202.465
1234678-HpCDD	40.858	1.000	2.25e6	2.15e6	1.029	1.047	1.050	11121.3	NO	198.624	198.624
OCDD	46.599	1.000	3.34e6	3.74e6	1.011	0.894	0.890	13636.0	NO	394.806	394.806
13C-2378-TCDF	25.630	1.006	2.72e6	3.46e6	1.522	0.787	0.770	13354.3	NO	100.770	100.770
13C-12378-PeCDF	29.765	1.169	2.89e6	1.84e6	1.185	1.563	1.550	12241.1	NO	99.040	99.040
13C-23478-PeCDF	31.113	1.222	2.75e6	1.75e6	1.136	1.573	1.550	11769.4	NO	98.265	98.265
13C-123478-HxCDF	34.775	0.951	1.14e6	2.19e6	1.284	0.520	0.510	5554.8	NO	100.316	100.316
13C-123678-HxCDF	34.928	0.955	1.22e6	2.34e6	1.383	0.520	0.510	5933.7	NO	99.555	99.555
13C-234678-HxCDF	35.871	0.981	1.13e6	2.15e6	1.283	0.527	0.510	5551.0	NO	99.176	99.176
13C-123789-HxCDF	37.021	1.013	9.82e5	1.86e6	1.099	0.523	0.510	4708.2	NO	100.757	100.757
13C-1234678-HpCDF	39.082	1.069	8.48e5	1.91e6	1.070	0.445	0.440	5572.8	NO	99.808	99.808
13C-1234789-HpCDF	41.702	1.141	6.12e5	1.38e6	0.774	0.444	0.440	3596.9	NO	99.672	99.672
13C-1234-TCDD	25.466	0.000	1.78e6	2.25e6	1.000	0.792	0.770	6806.0	NO	100.000	100.000
13C-2378-TCDD	26.273	1.032	1.66e6	2.12e6	0.943	0.783	0.770	6515.7	NO	99.615	99.615
13C-12378-PeCDD	31.365	1.232	1.73e6	1.09e6	0.715	1.595	1.550	17955.5	NO	97.826	97.826
13C-123478-HxCDD	36.013	0.985	1.50e6	1.18e6	1.032	1.268	1.240	10730.3	NO	100.853	100.853
13C-123678-HxCDD	36.145	0.989	1.54e6	1.22e6	1.076	1.255	1.240	11027.9	NO	99.412	99.412
13C-1234678-HpCDD	40.847	1.117	1.10e6	1.05e6	0.838	1.039	1.050	6004.6	NO	99.461	99.461
13C-OCDD	46.581	1.274	1.67e6	1.87e6	0.675	0.893	0.890	6122.5	NO	203.629	203.629

57 05 : 00 1 00

Quantify Sample Summary Report

MassLynx 4.1 SCN 714

P:\DIOXIN8290.PRO\130211C.qld

Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

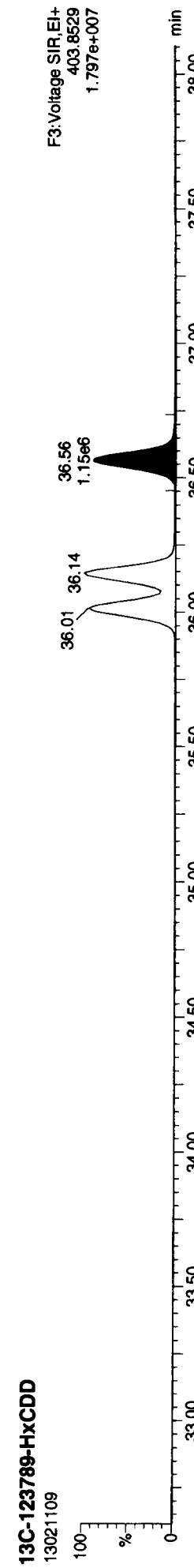
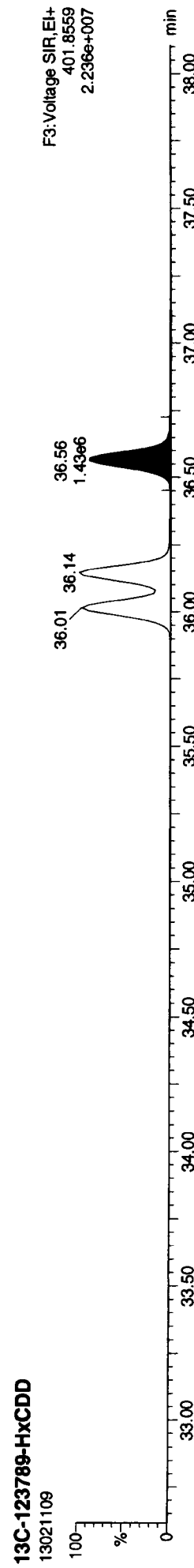
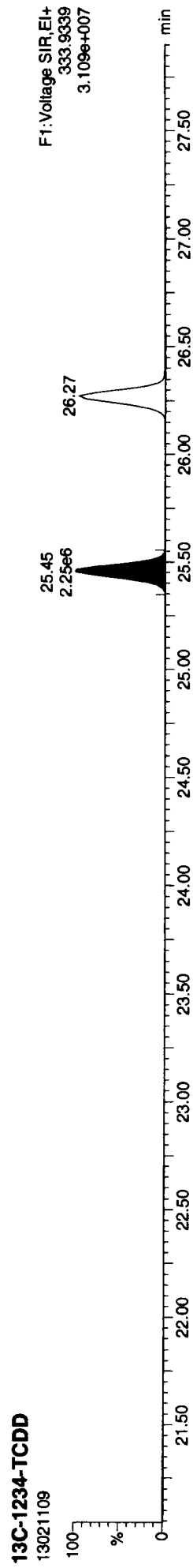
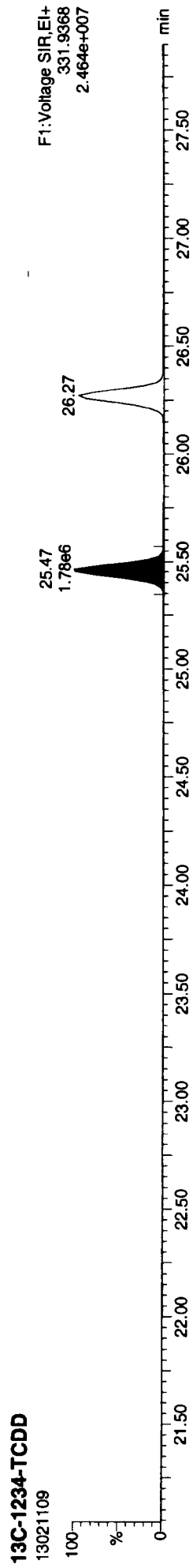
13C-123789-HxCDD	36.561	0.000	1.43e6	1.15e6	1.000	1.247	1.240	9804.5	NO	100.000
Total-tetrafurans			9.80e5		0.921					39.546
Total-penta1			7.39e2							0.027
Total-pentafurans			1.07e7		0.927					414.994
Total-hexafurans			1.55e7		1.062					812.461
Total-heptafurans			5.99e6		1.231					408.418
Total-Furans			3.71e7		1.065					2084.060
Total-tetraioxins			7.22e5		1.106					39.573
Total-pentadioxins			3.48e6		1.001					202.963
Total-hexadioxins			8.58e6		0.937					607.414
Total-heptadioxins			2.26e6		1.029					199.627
Total-Dioxins			1.84e7		0.994					1444.383
Total-TEQ			5.55e7							3528.443
37Cl-2378-TCDD	26.288	1.032	1.70e6		1.051		12475.2			40.056
FUNCTION1 PFK			4.01e7							
FUNCTION2 PFK			0.00e0							
FUNCTION3 PFK			1.66e7							0.000
FUNCTION4 PFK			8.46e5							
FUNCTION5 PFK			3.88e5							
FUNCTION1 HXGDPE			0.00e0							
FUNCTION1 HPCDPE			1.55e3							0.000
FUNCTION2 HPCDPE			6.43e3							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\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

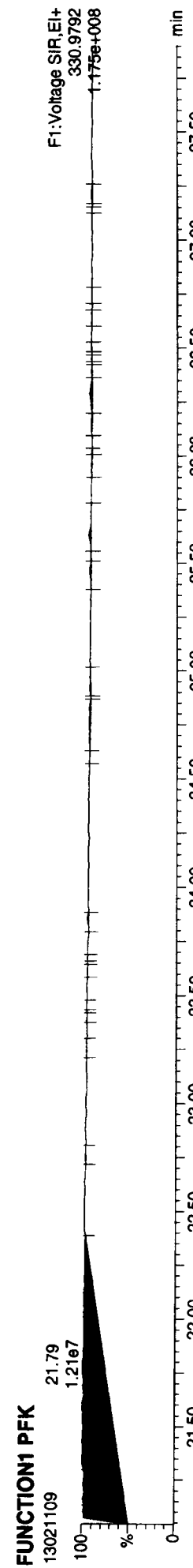
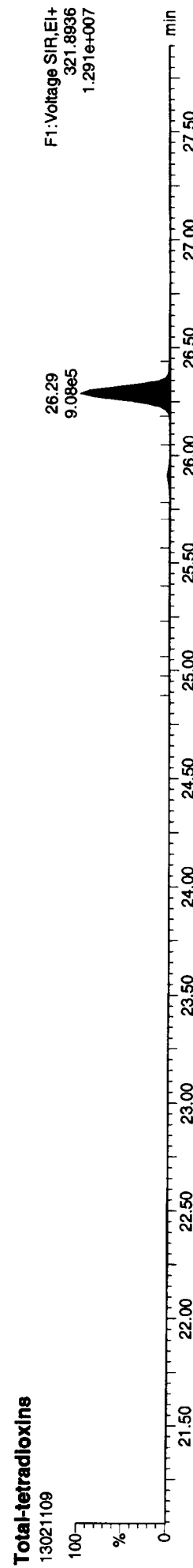
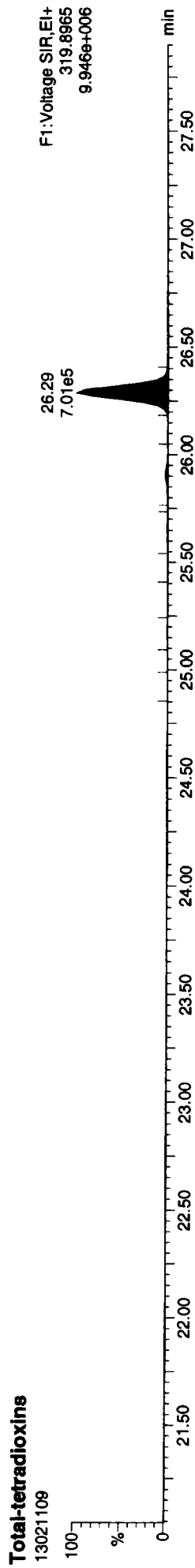
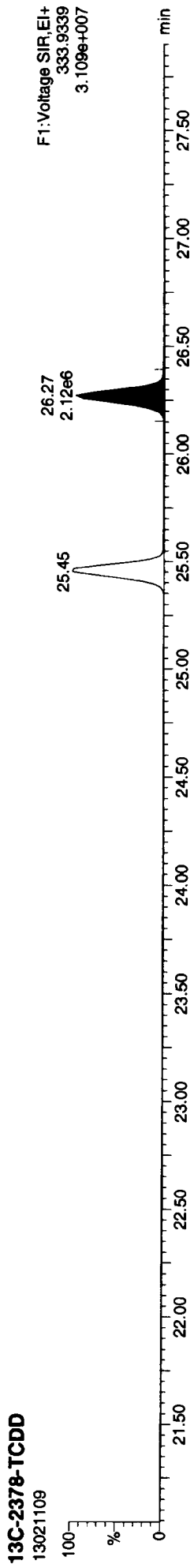
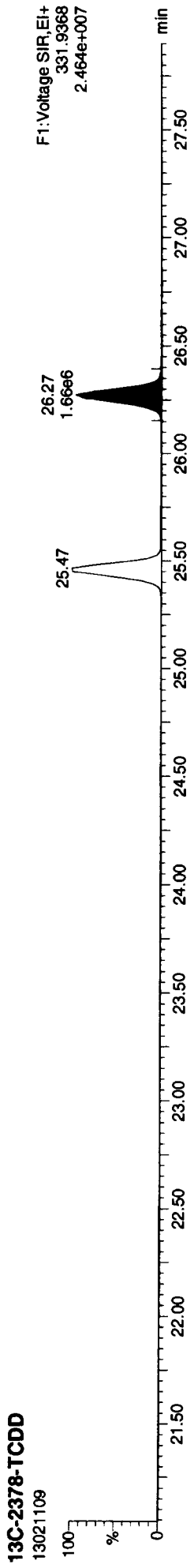
ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk





Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

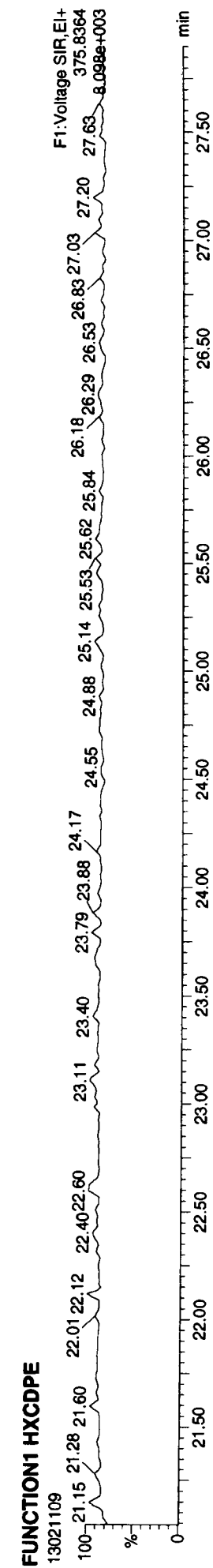
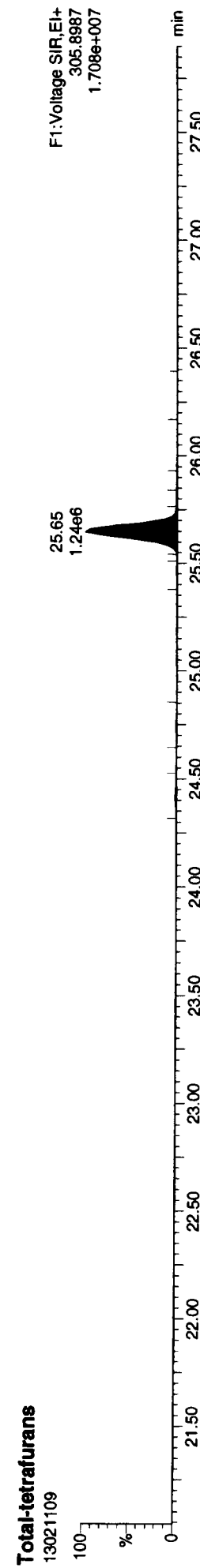
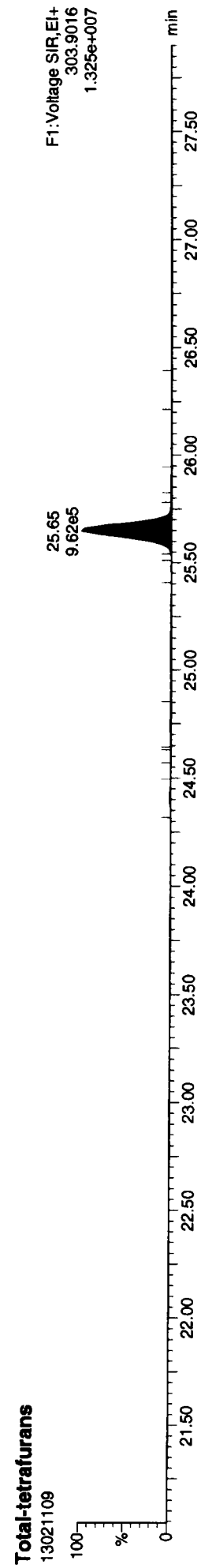
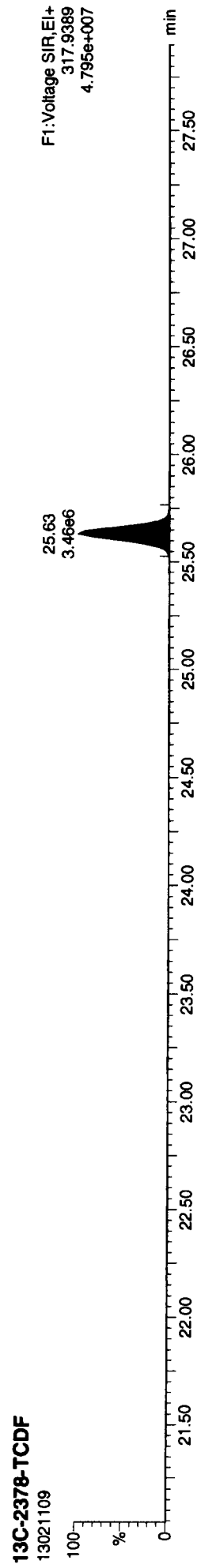
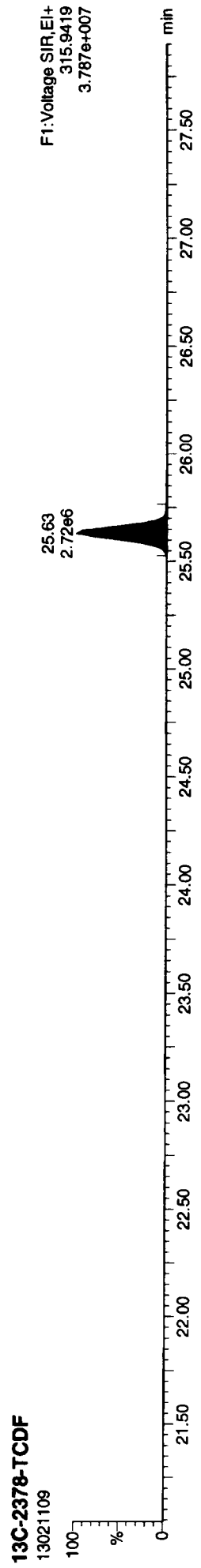
ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOX\IN8290.PRO\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

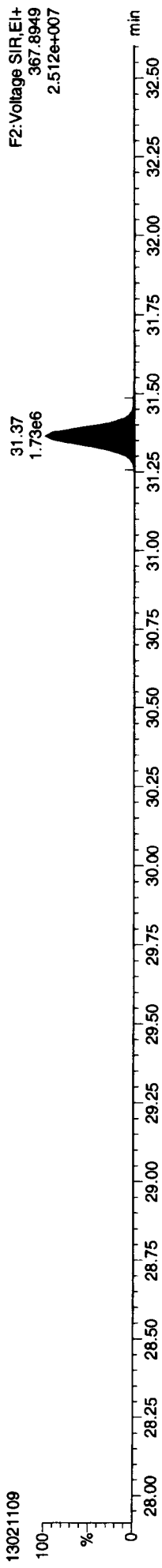


57 20 09 10

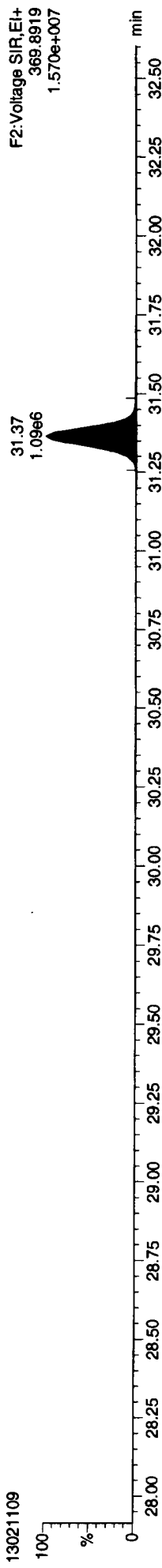
Dataset: P:\DIOXIN8290.PRO\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

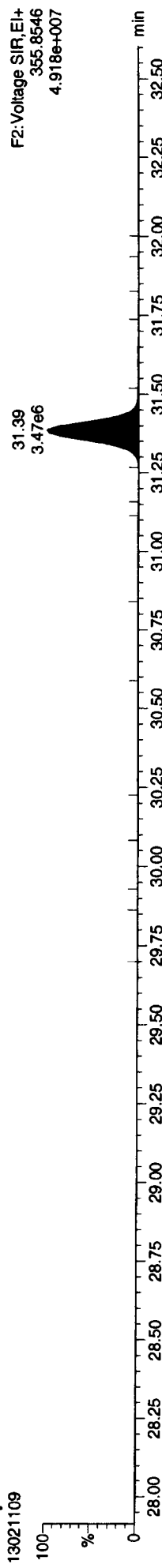
13C-12378-PeCDD



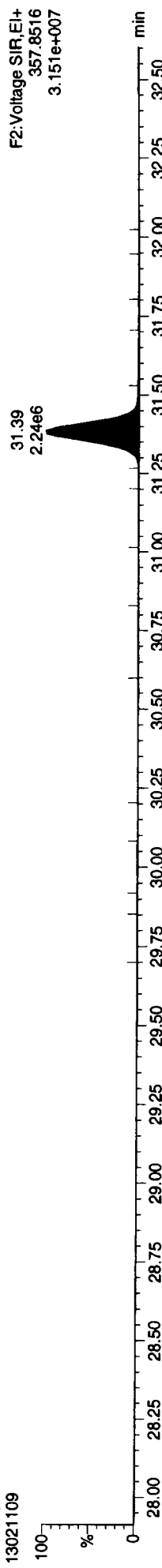
13C-12378-PeCDD



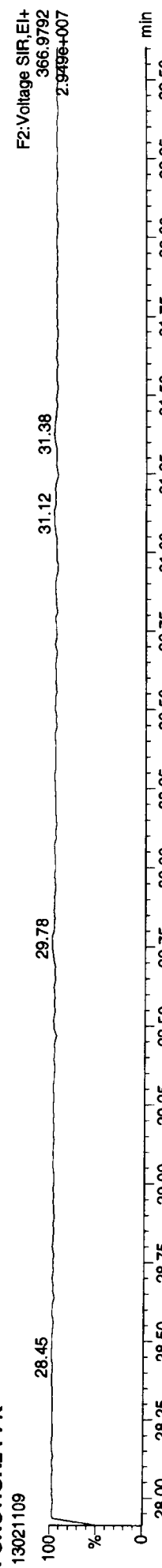
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

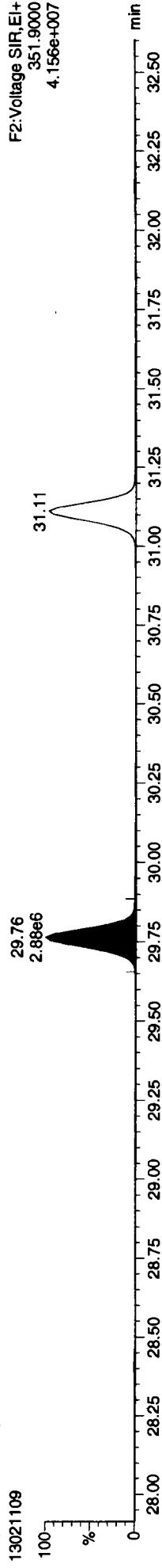


Quantity Sample Report Masslynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\13021109.qid  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

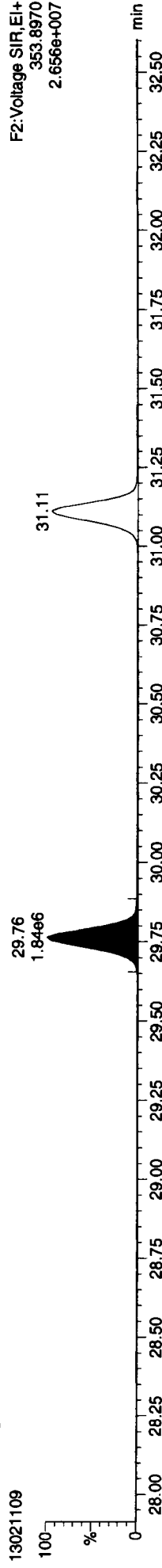
ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDF



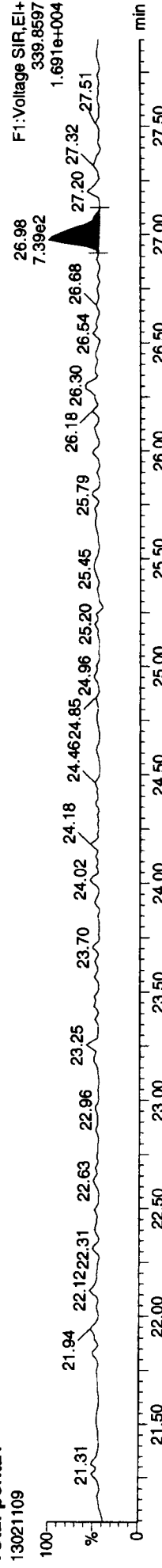
F2:Voltage SIR,EI+  
351.9000  
4.156e+007

13C-12378-PeCDF



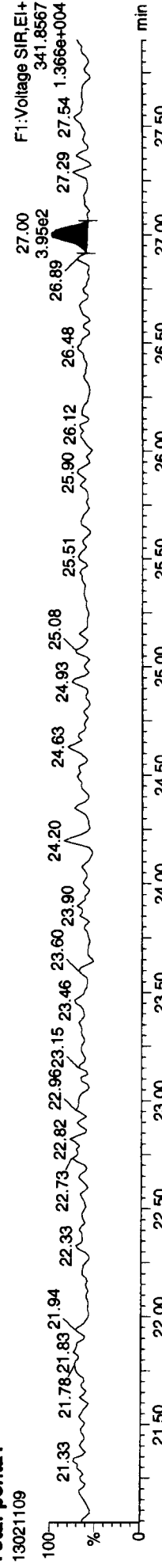
F2:Voltage SIR,EI+  
353.8970  
2.656e+007

Total-penta1



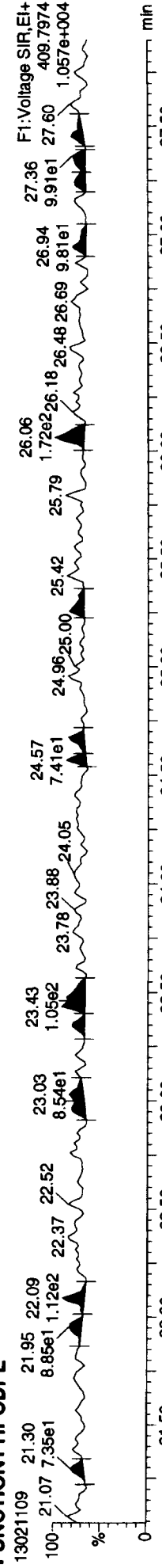
F1:Voltage SIR,EI+  
339.8597  
1.691e+004

Total-penta1



F1:Voltage SIR,EI+  
341.8567  
1.366e+004

FUNCTION1 HPCDPE



F1:Voltage SIR,EI+  
409.7974  
1.057e+004

Dataset: P:\DIOXIN8290.PRO\13021109.qid

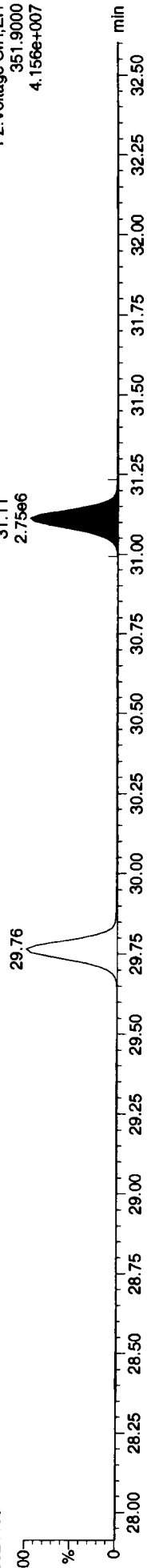
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

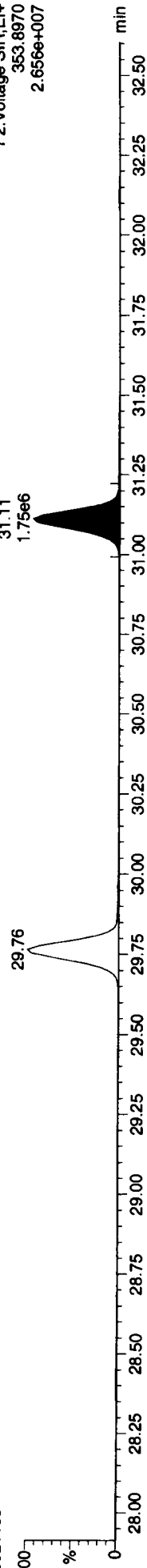
13C-23478-PeCDF

13021109



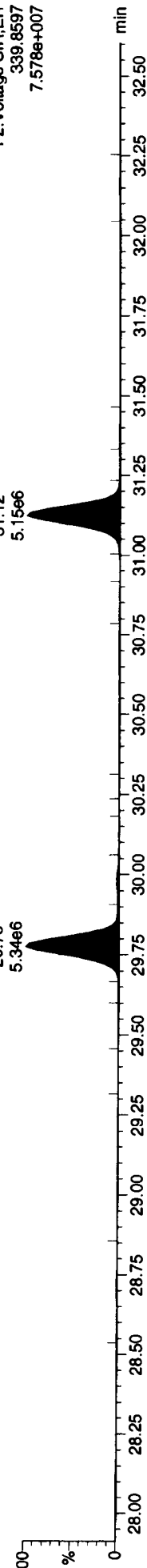
13C-23478-PeCDF

13021109



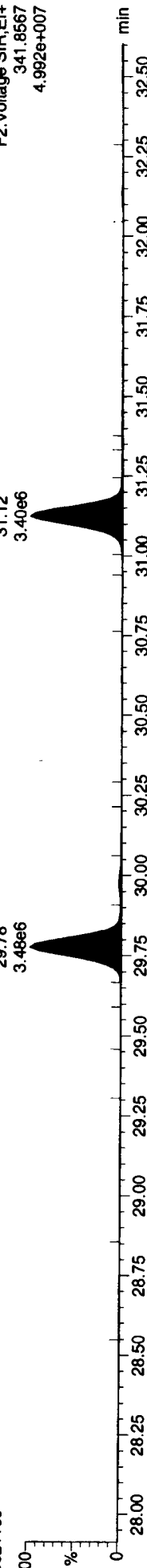
Total-pentafurans

13021109



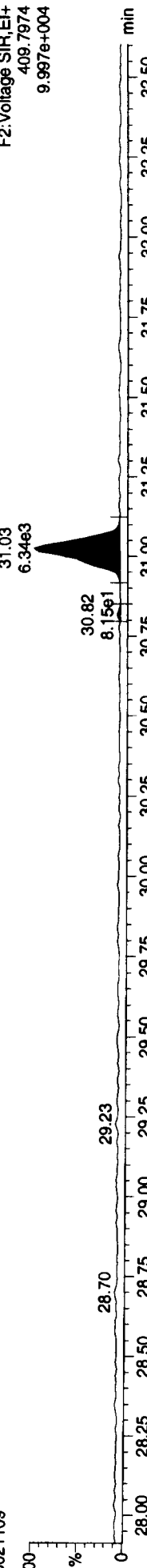
Total-pentafurans

13021109



FUNCTION2 HPCDPE

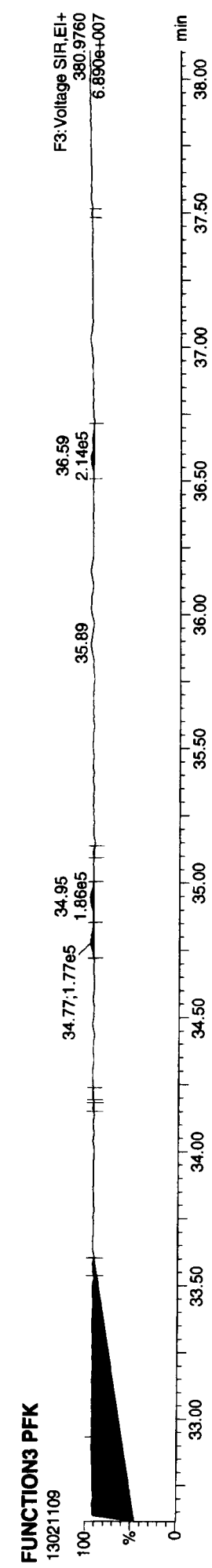
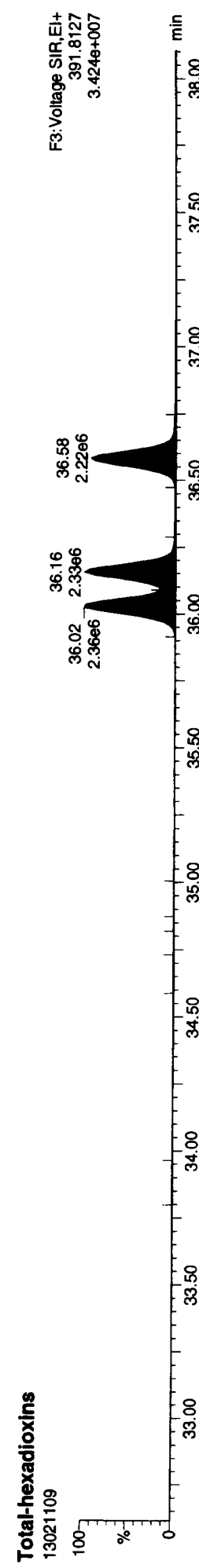
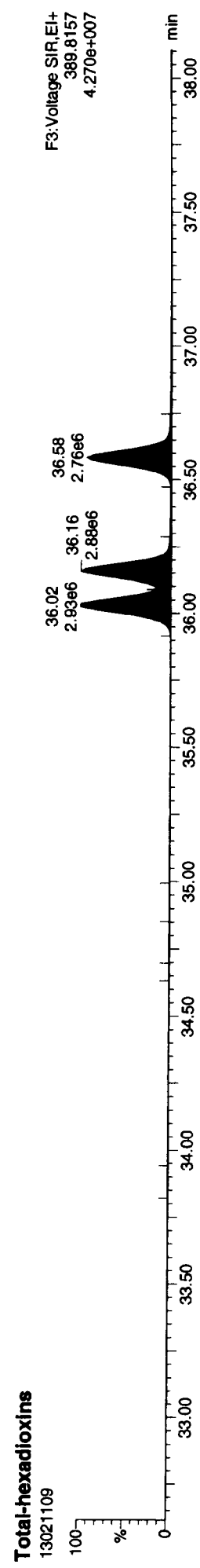
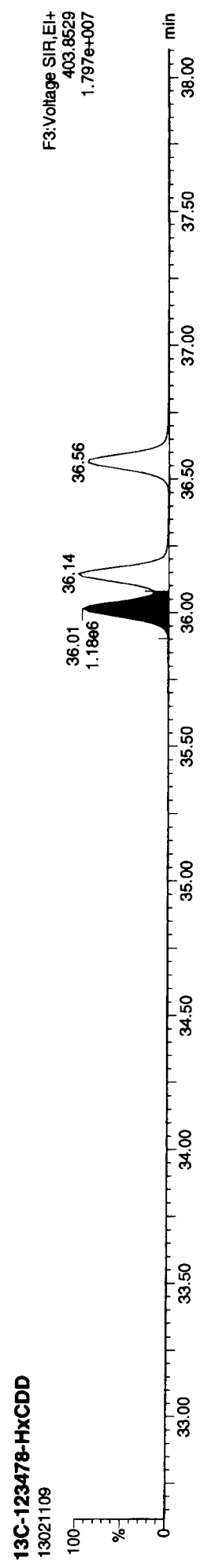
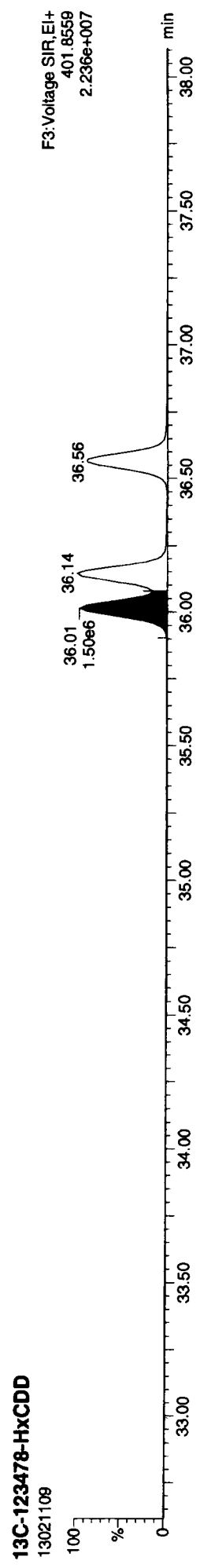
13021109



11 FEB 2013 18:16:11

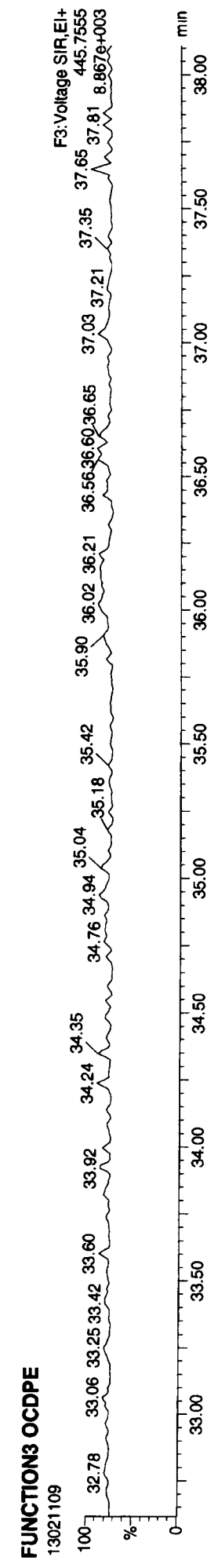
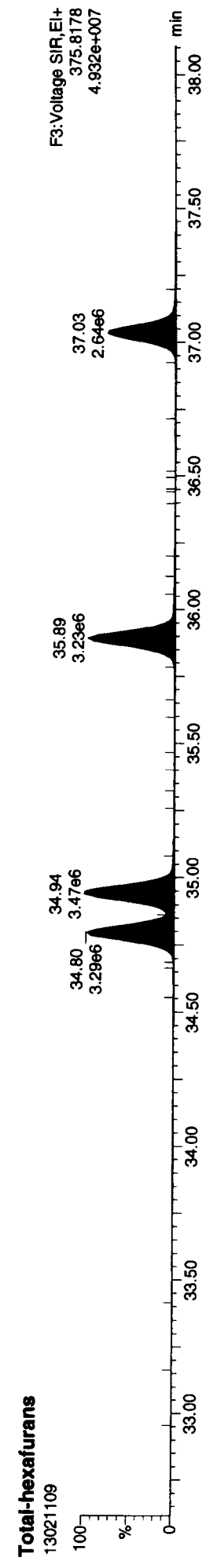
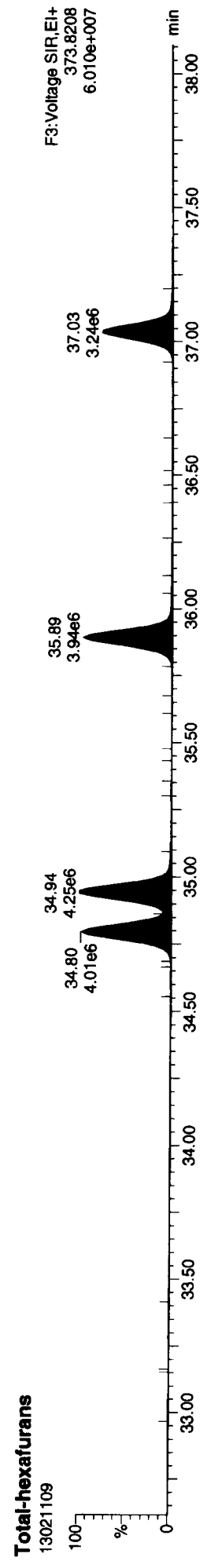
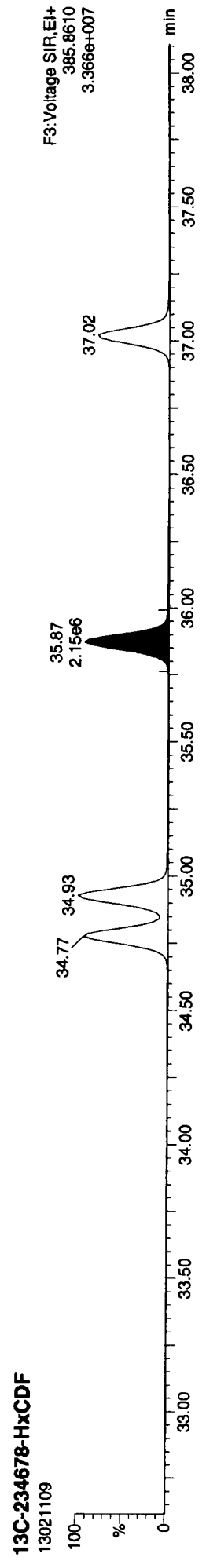
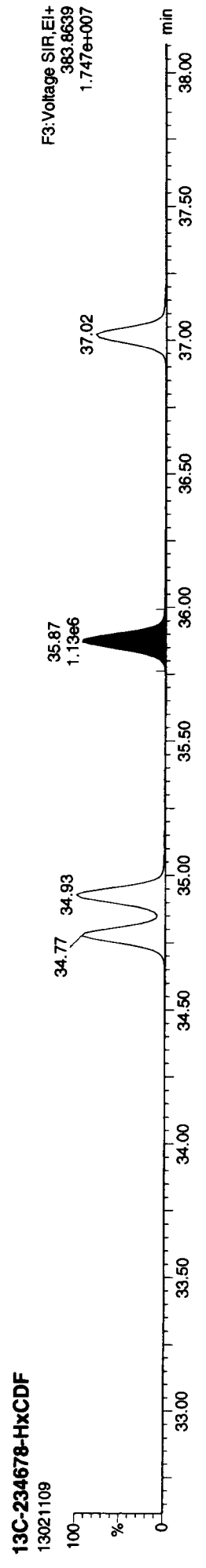
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOX\IN8290.PRO\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOXIN8290.PRO\13021109.d

Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



13C-1234678-HpCDD



Total-heptadioxins



Total-heptadioxins



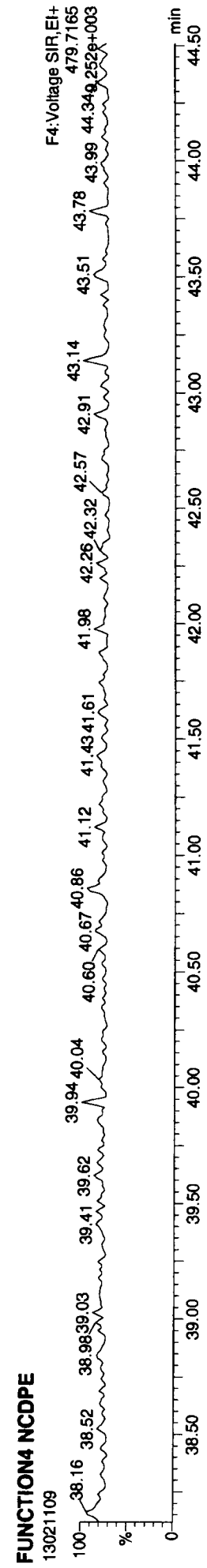
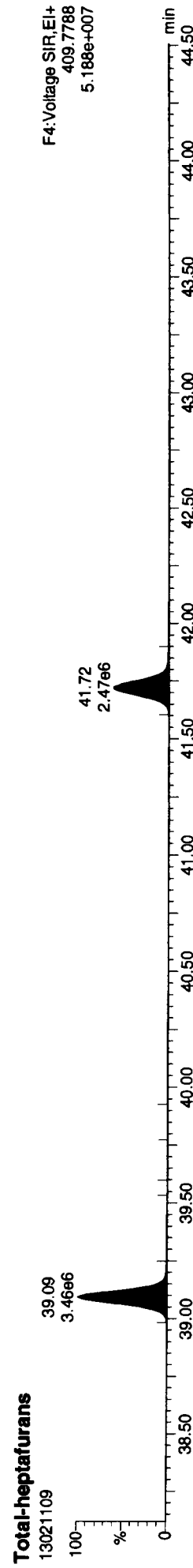
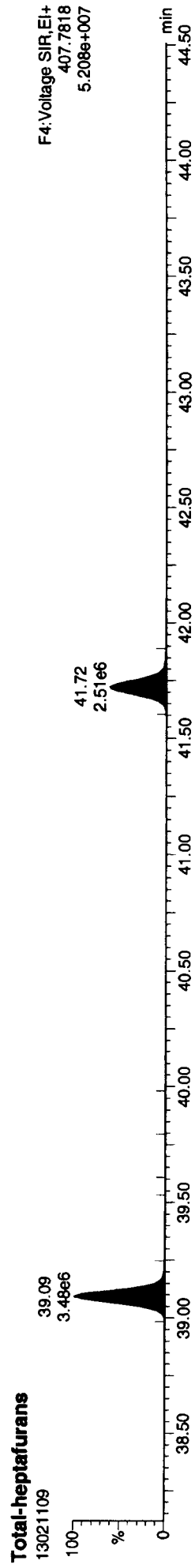
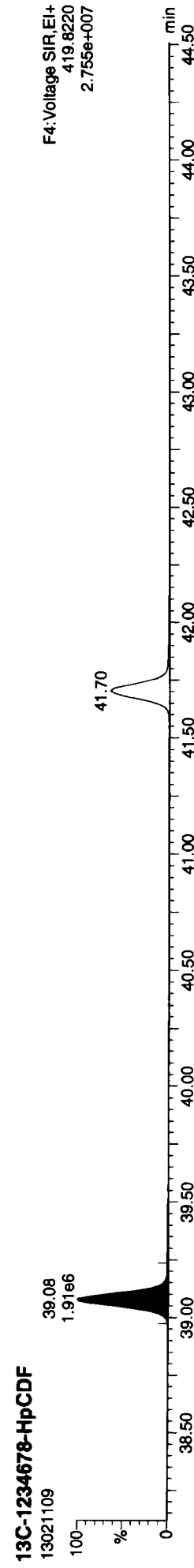
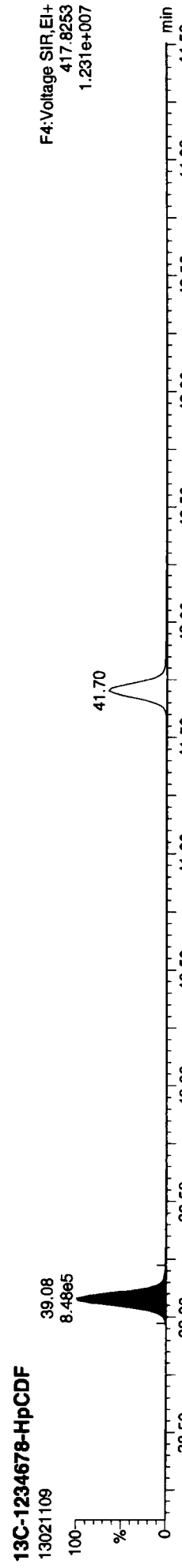
FUNCTION4 PFK





Quantify Sample Report **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\13021109.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk



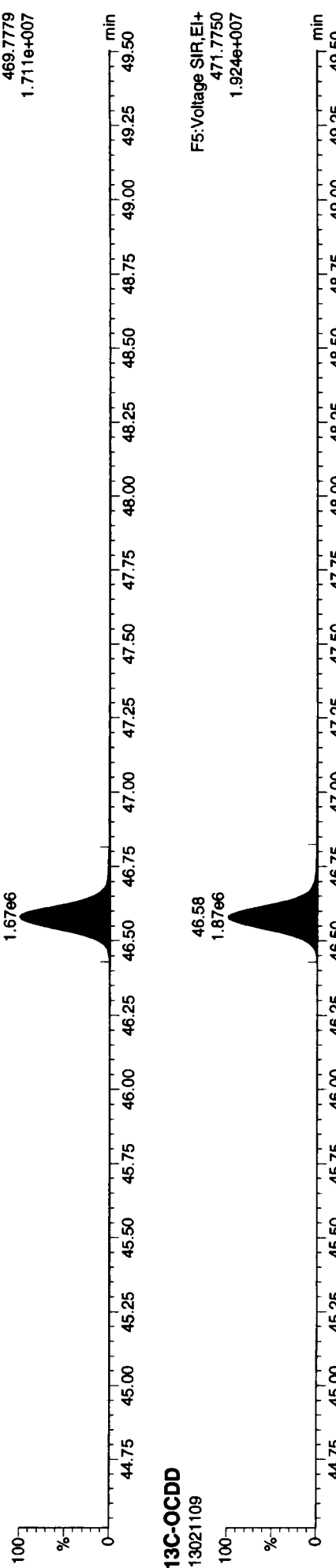
57 10 08 14 14

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk

13C-OCDD

13021109

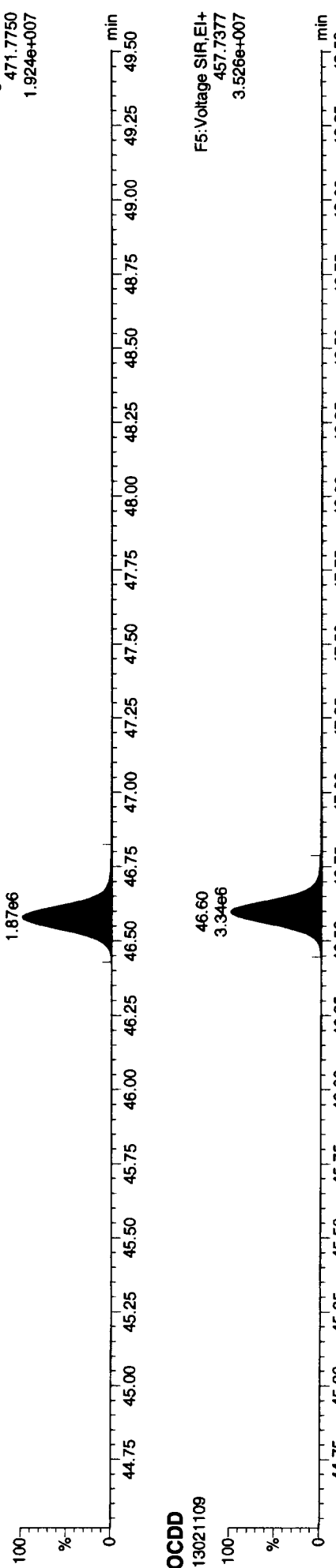
F5: Voltage SIR, EI+  
469.7779  
1.711e+007



13C-OCDD

13021109

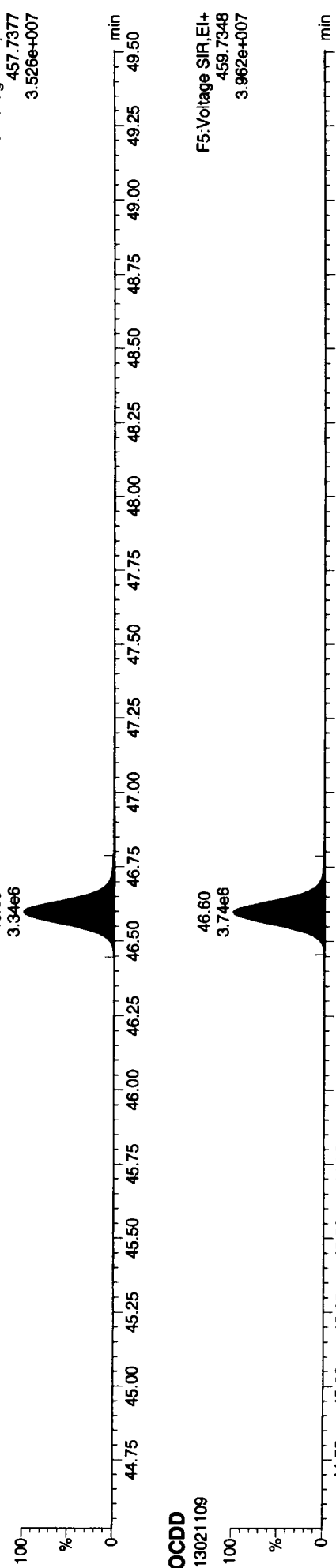
F5: Voltage SIR, EI+  
471.7750  
1.924e+007



OCDD

13021109

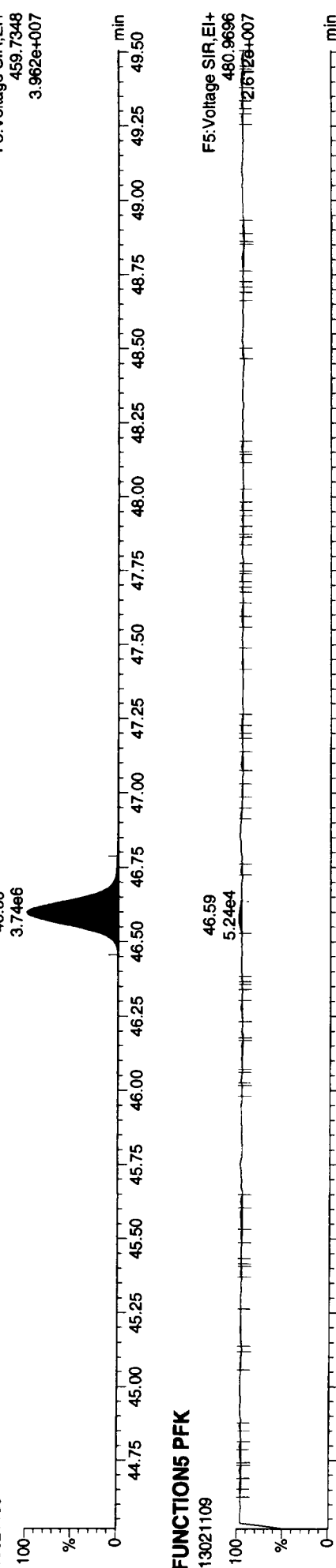
F5: Voltage SIR, EI+  
457.7377  
3.526e+007



OCDD

13021109

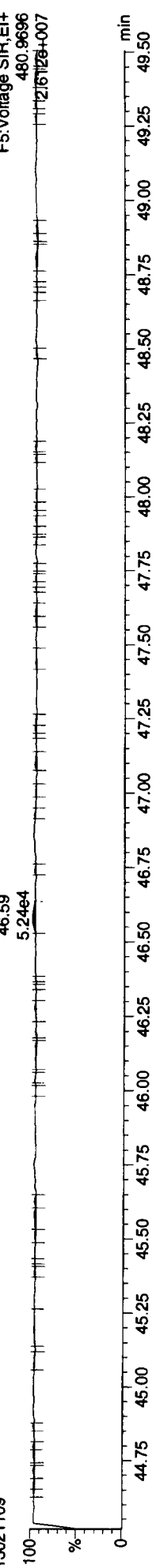
F5: Voltage SIR, EI+  
459.7348  
3.962e+007



FUNCTION5 PFK

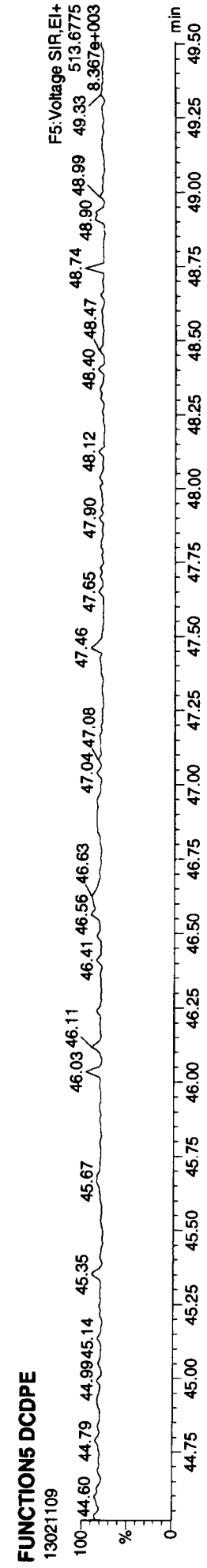
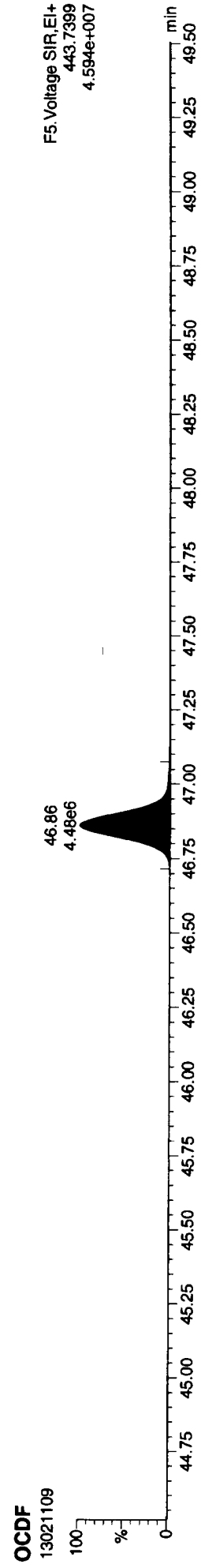
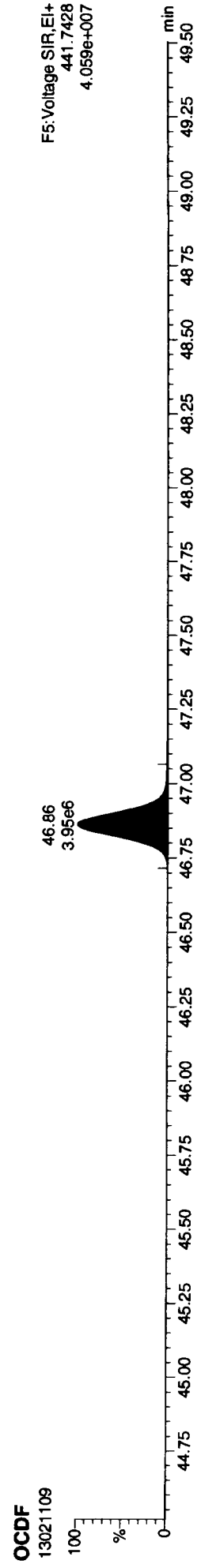
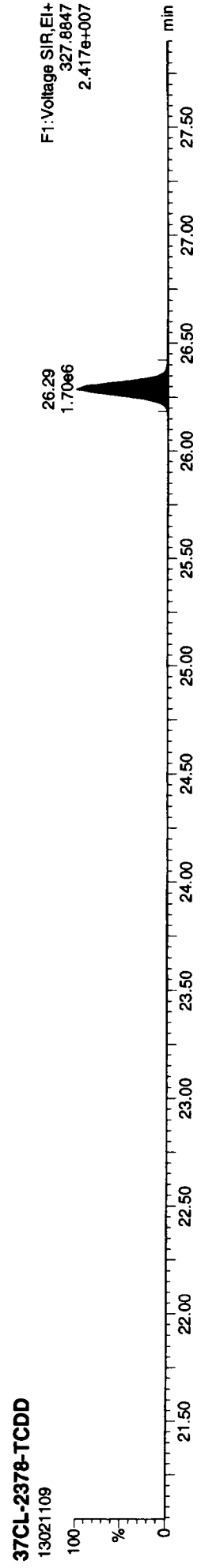
13021109

F5: Voltage SIR, EI+  
480.9696  
1.21612e+007



Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021101C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:29 Pacific Standard Time

ID: CS4, Name: 13021109, Date: 11-Feb-2013, Time: 18:16:11, Conditions: AUTOSPEC01, User: pk



37 10 09 12 13

Quantity Sample Summary Report Masslynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

2378-TCDF	25.845	1.001	5.00e6	6.48e6	0.921	0.774	0.770	40735.8	NO	196.964	196.964
12378-PeCDF	29.775	1.000	3.10e7	2.04e7	0.912	1.520	1.550	64495.7	NO	1026.092	1026.092
23478-PeCDF	31.124	1.001	3.07e7	2.00e7	0.943	1.530	1.550	63389.5	NO	1032.471	1032.471
123478-HxCDF	34.796	1.001	2.42e7	1.98e7	1.101	1.221	1.240	71520.7	NO	1027.727	1027.727
234678-HxCDF	35.892	1.001	2.34e7	1.96e7	1.073	1.194	1.240	69913.9	NO	1023.416	1023.416
123678-HxCDF	34.938	1.000	2.52e7	2.06e7	1.056	1.226	1.240	76138.7	NO	1026.541	1026.541
123789-HxCDF	37.032	1.000	1.96e7	1.60e7	1.017	1.223	1.240	58715.5	NO	1026.701	1026.701
1234678-HpCDF	39.082	1.000	2.09e7	2.06e7	1.238	1.015	1.050	42171.4	NO	1028.841	1028.841
1234789-HpCDF	41.713	1.000	1.54e7	1.51e7	1.224	1.019	1.050	27484.2	NO	1044.382	1044.382
OCDF	46.868	1.006	2.52e7	2.82e7	1.162	0.893	0.890	56661.2	NO	2130.432	2130.432
2378-TCDD	26.288	1.001	3.81e6	4.87e6	1.106	0.782	0.770	28503.7	NO	194.727	194.727
12378-PeCDD	31.376	1.001	2.04e7	1.32e7	1.001	1.543	1.550	77832.3	NO	1023.432	1023.432
123478-HxCDD	36.024	1.000	1.80e7	1.44e7	0.978	1.247	1.240	42019.2	NO	1045.246	1045.246
123678-HxCDD	36.155	1.000	1.73e7	1.39e7	0.929	1.244	1.240	40968.6	NO	1013.349	1013.349
123789-HxCDD	36.583	1.012	1.65e7	1.33e7	0.904	1.238	1.240	38345.6	NO	1016.804	1016.804
1234678-HpCDD	40.858	1.001	1.35e7	1.30e7	1.029	1.041	1.050	29281.7	NO	1009.457	1009.457
OCDD	46.599	1.000	2.08e7	2.33e7	1.011	0.890	0.890	32511.9	NO	2023.162	2023.162
13C-2378-TCDF	25.630	1.007	2.78e6	3.54e6	1.522	0.785	0.770	13818.1	NO	106.394	106.394
13C-12378-PeCDF	29.765	1.169	3.35e6	2.13e6	1.185	1.571	1.550	20314.7	NO	118.673	118.673
13C-23478-PeCDF	31.102	1.222	3.18e6	2.03e6	1.136	1.568	1.550	19812.7	NO	117.556	117.556
13C-123478-HxCDF	34.774	0.951	1.32e6	2.56e6	1.284	0.515	0.510	7905.6	NO	98.953	98.953
13C-123678-HxCDF	34.928	0.955	1.46e6	2.77e6	1.383	0.526	0.510	8639.0	NO	100.052	100.052
13C-234678-HxCDF	35.870	0.981	1.36e6	2.56e6	1.283	0.530	0.510	8090.5	NO	99.826	99.826
13C-123789-HxCDF	37.021	1.013	1.17e6	2.23e6	1.099	0.526	0.510	6766.0	NO	101.434	101.434
13C-1234678-HpCDF	39.071	1.069	1.01e6	2.25e6	1.070	0.450	0.440	6342.6	NO	99.911	99.911
13C-1234789-HpCDF	41.702	1.141	7.39e5	1.64e6	0.774	0.449	0.440	4053.4	NO	100.789	100.789
13C-1234-TCDD	25.451	0.000	1.72e6	2.18e6	1.000	0.791	0.770	5881.7	NO	100.000	100.000
13C-2378-TCDD	26.273	1.032	1.76e6	2.26e6	0.943	0.778	0.770	5883.4	NO	109.438	109.438
13C-12378-PeCDD	31.354	1.232	2.00e6	1.29e6	0.715	1.568	1.550	12301.7	NO	117.526	117.526
13C-123478-HxCDD	36.013	0.985	1.78e6	1.40e6	1.032	1.269	1.240	12257.1	NO	100.708	100.708
13C-123678-HxCDD	36.144	0.989	1.84e6	1.47e6	1.076	1.249	1.240	12264.2	NO	100.475	100.475
13C-1234678-HpCDD	40.836	1.117	1.30e6	1.24e6	0.838	1.051	1.050	7266.4	NO	99.499	99.499
13C-OCDD	46.581	1.274	2.03e6	2.28e6	0.675	0.891	0.890	11723.2	NO	208.975	208.975

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211C.qld  
 Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
 Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

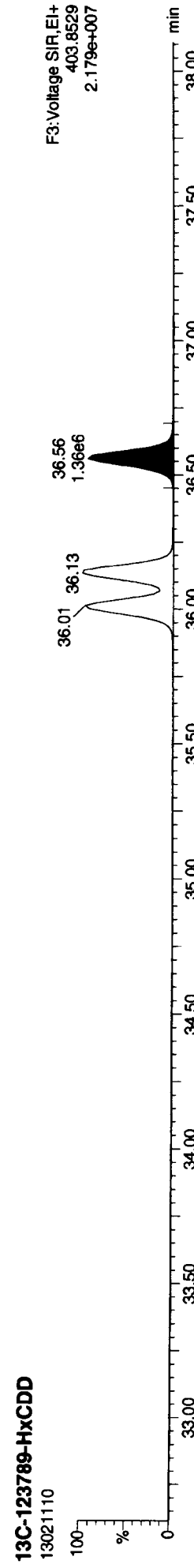
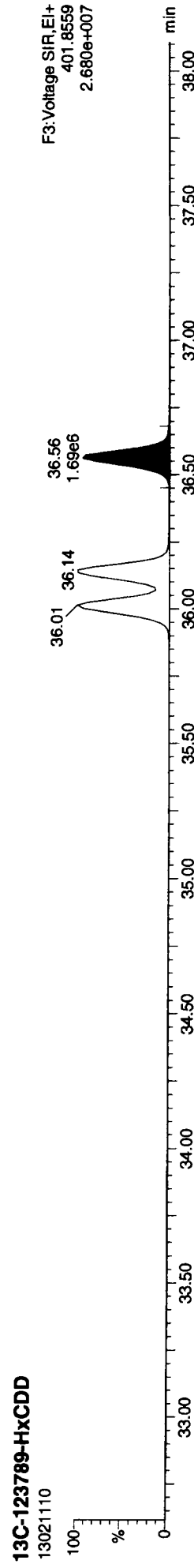
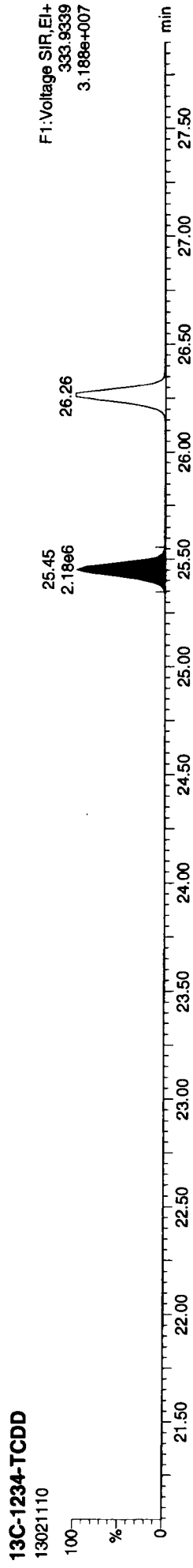
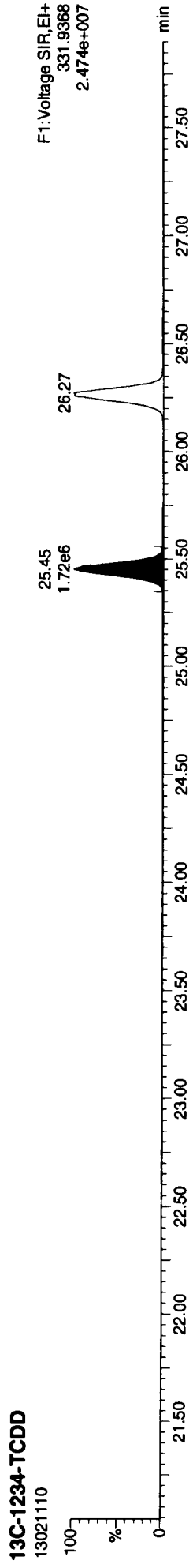
13C-123789-HxCDD	36.561	0.000	1.69e6	1.36e6	1.000	1.240	1.240	11636.1	NO	100.000
Total-tetrafurans			5.09e6		0.921					200.497
Total-penta1			0.00e0							
Total-pentafurans			6.25e7		0.927					2088.436
Total-hexafurans			9.25e7		1.062					4109.629
Total-heptafurans			3.63e7		1.231					2074.818
Total-Furans			2.22e8		1.065					10603.812
Total-tetraoxins			3.91e6		1.106					199.772
Total-pentadioxins			2.04e7		1.001					1025.595
Total-hexadioxins			5.18e7		0.937					3075.698
Total-heptadioxins			1.35e7		1.029					1012.974
Total-Dioxins			1.10e8		0.994					7337.202
Total-TEQ			3.32e8							17941.013
37CL-2378-TCDD	26.288	1.033	9.18e6		1.051			65861.4		223.756
FUNCTION1 PFK			8.14e5							0.000
FUNCTION2 PFK			6.95e5							0.000
FUNCTION3 PFK			3.86e6							
FUNCTION4 PFK			9.04e5							
FUNCTION5 PFK			0.00e0							
FUNCTION1 HXCDPE			7.19e1							0.000
FUNCTION1 HPCDPE			1.05e3							0.000
FUNCTION2 HPCDPE			3.19e4							0.000
FUNCTION3 OCDPE			1.13e3							0.000
FUNCTION4 NCDPE			2.50e2							0.000
FUNCTION5 DCDPE			5.51e2							0.000

Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DiDioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\1302111CAL.cdb 12 Feb 2013 09:29:24

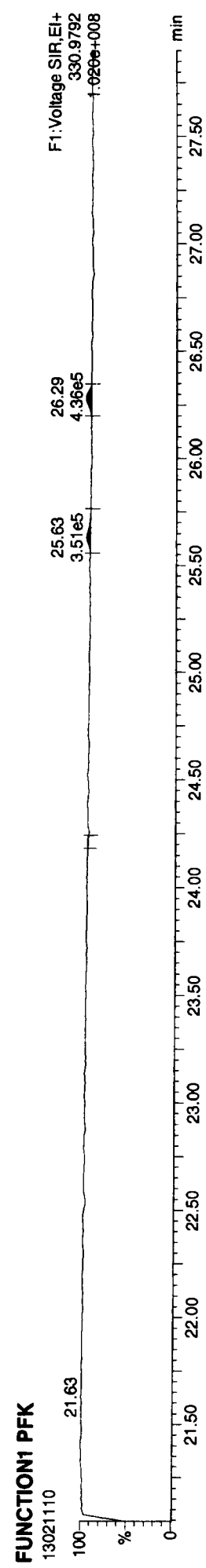
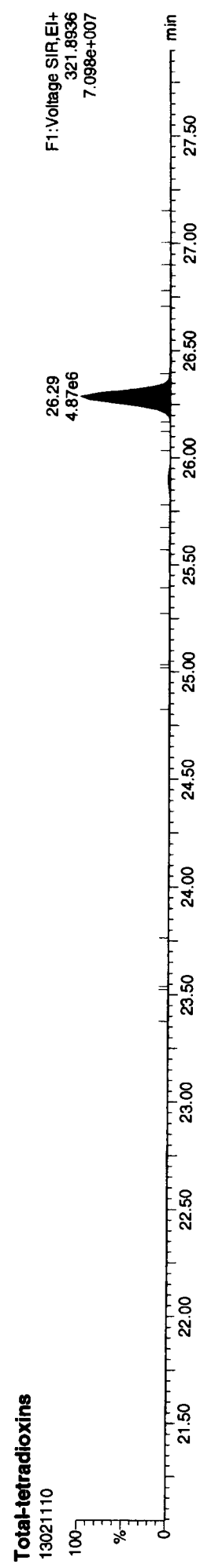
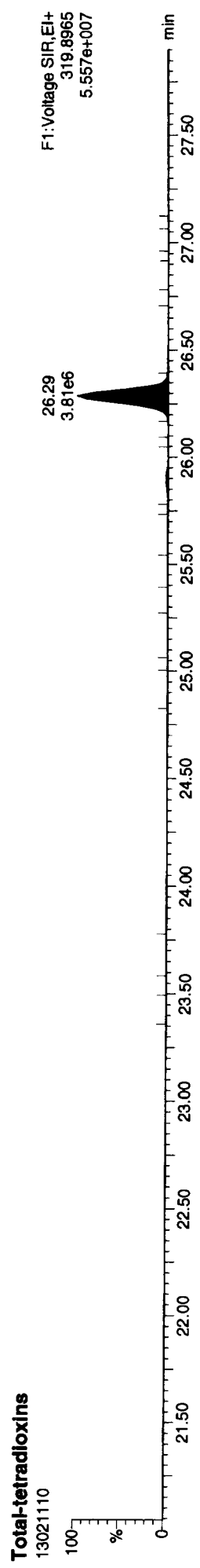
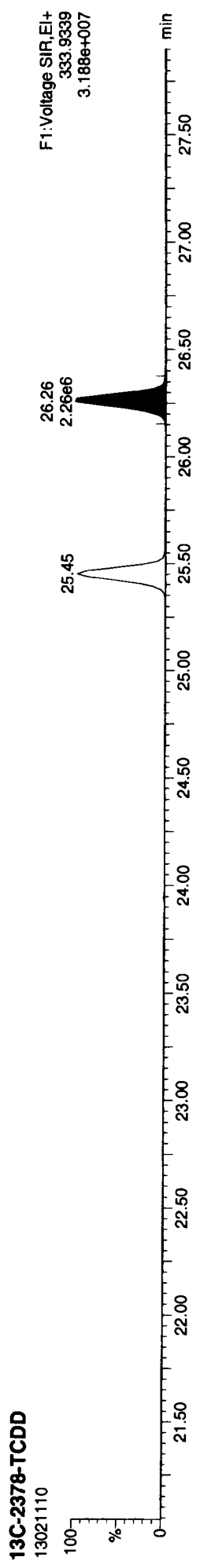
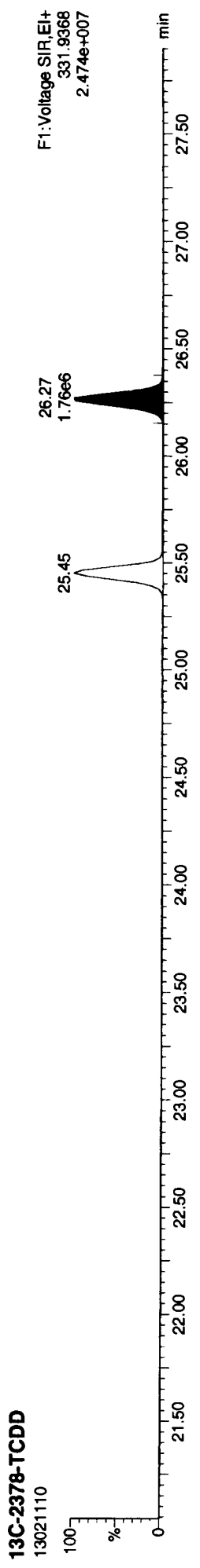
ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

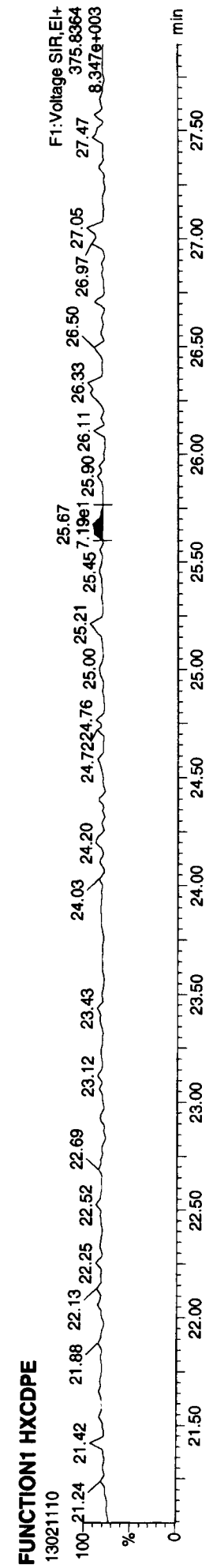
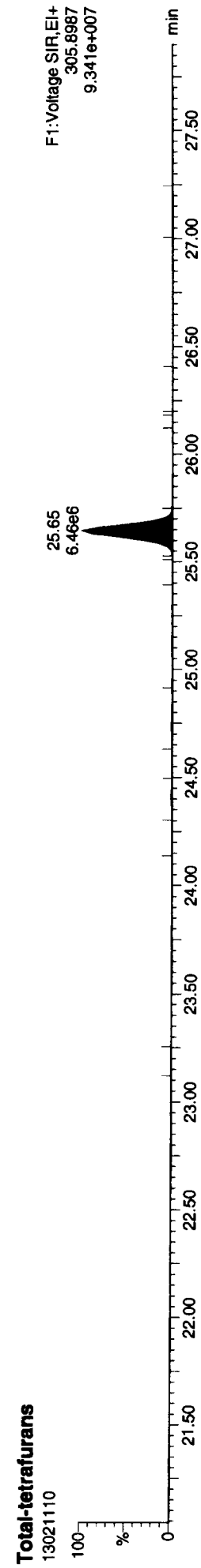
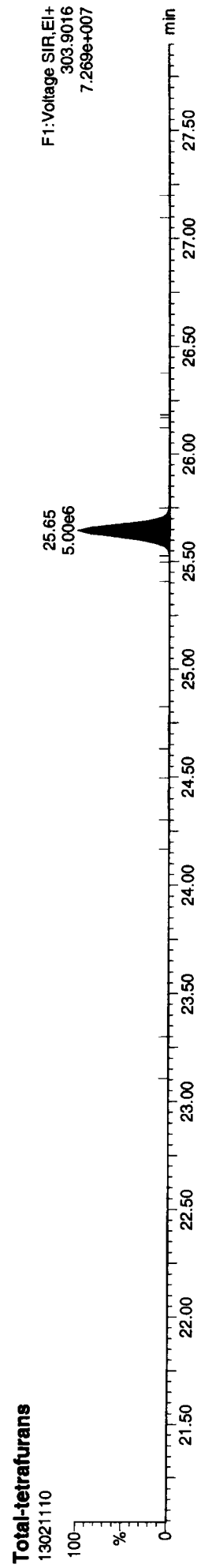
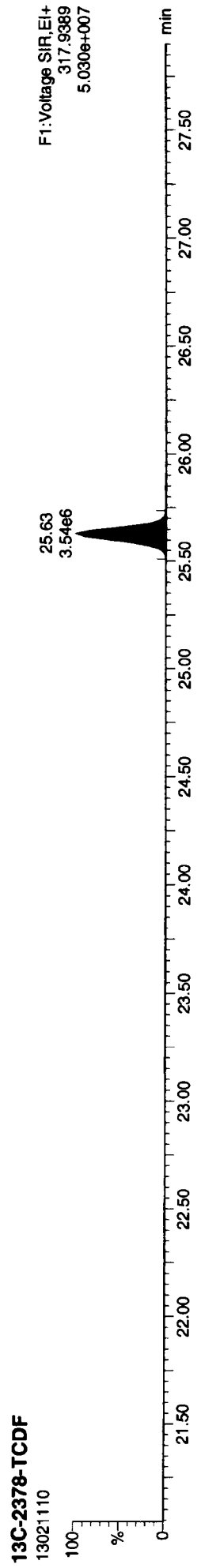
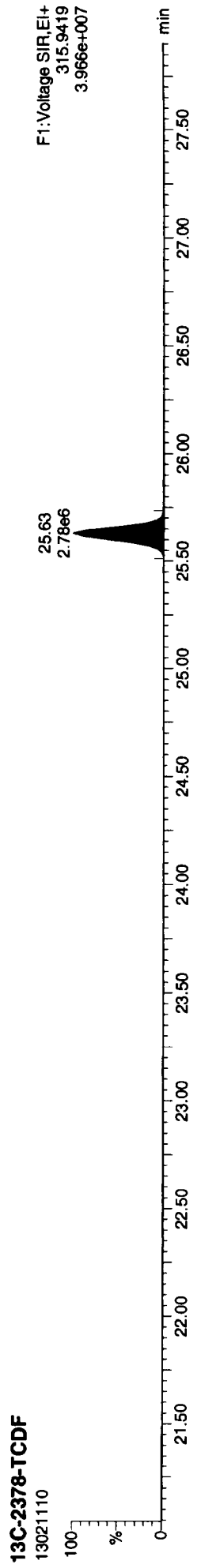
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk



Dataset: P:\DIOX\N8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

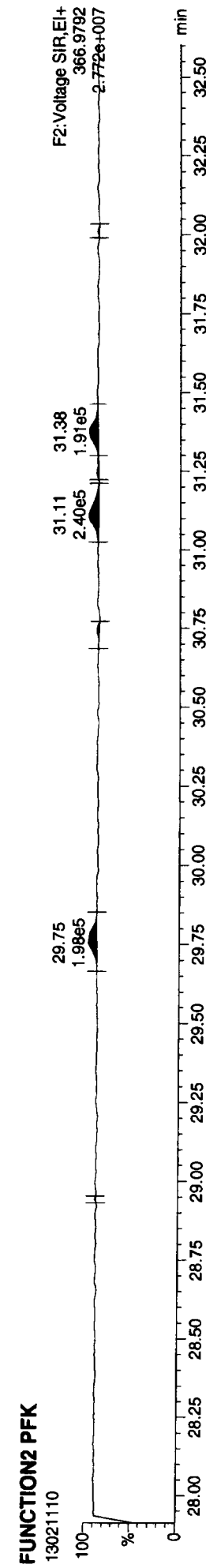
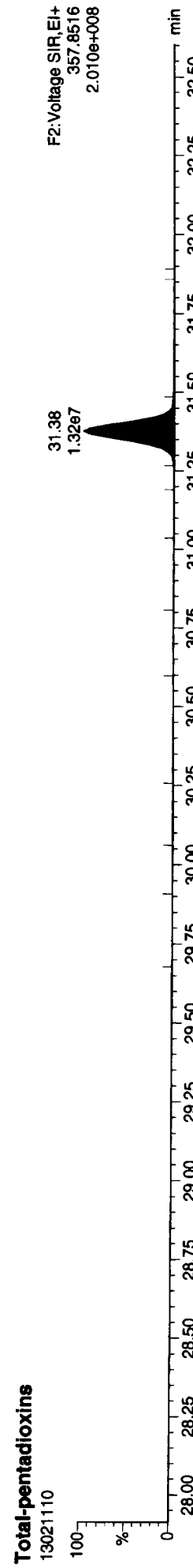
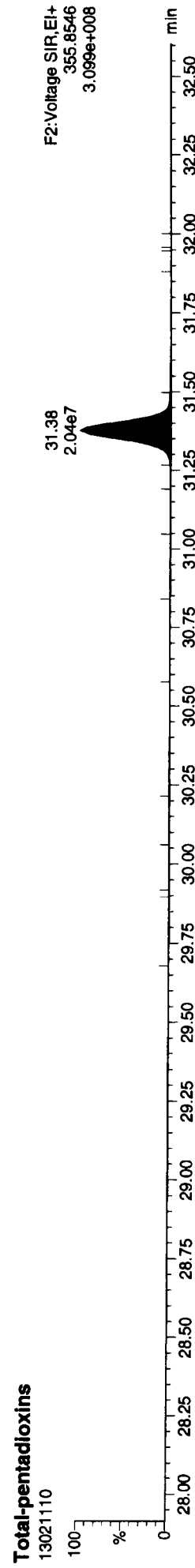
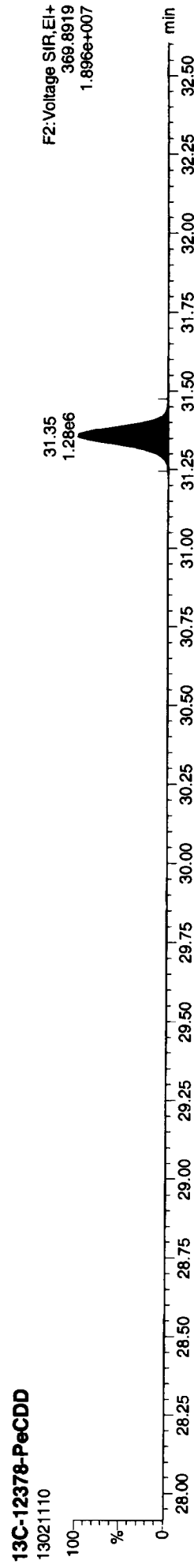
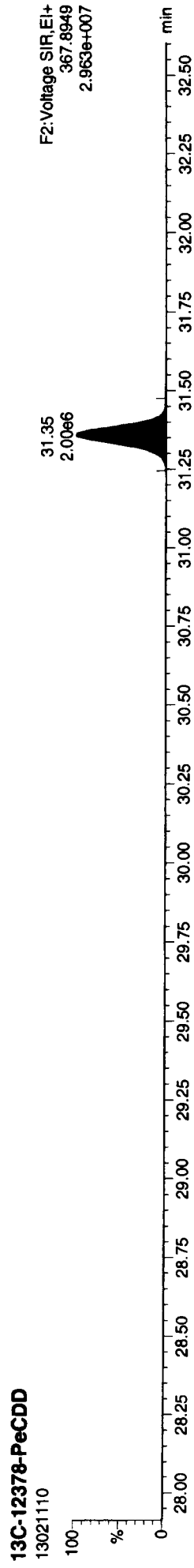
ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk





Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13021110.d  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

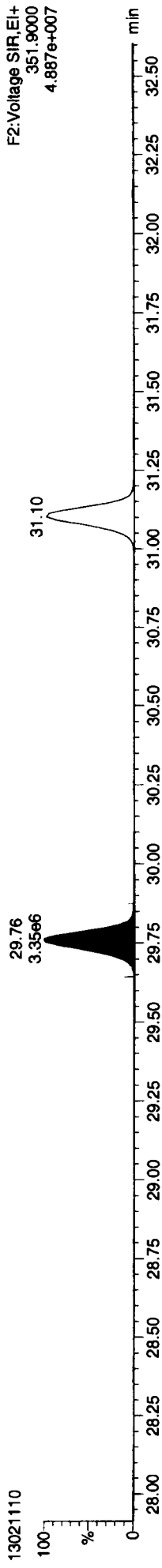
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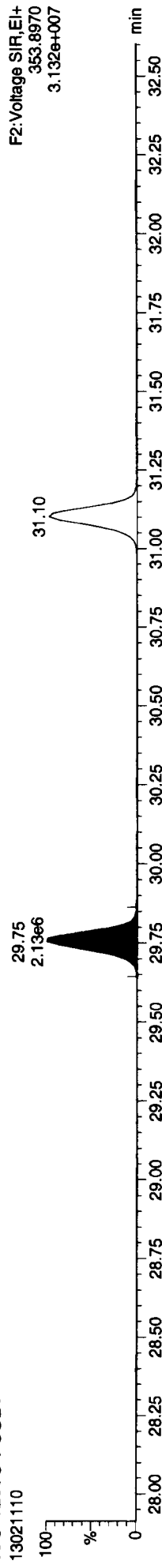
57 10 001 10

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

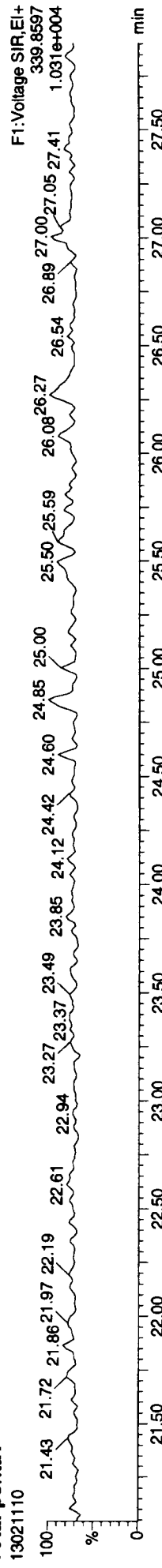
13C-12378-PeCDF



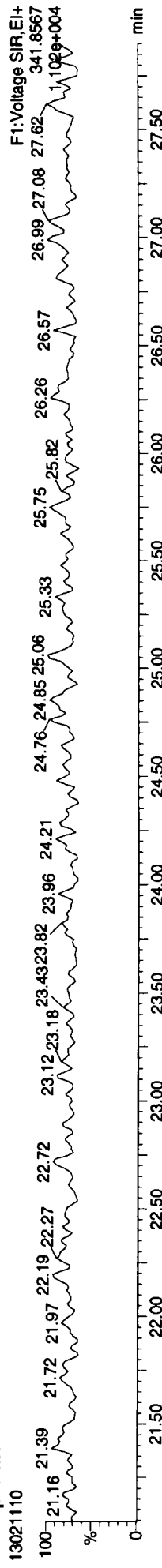
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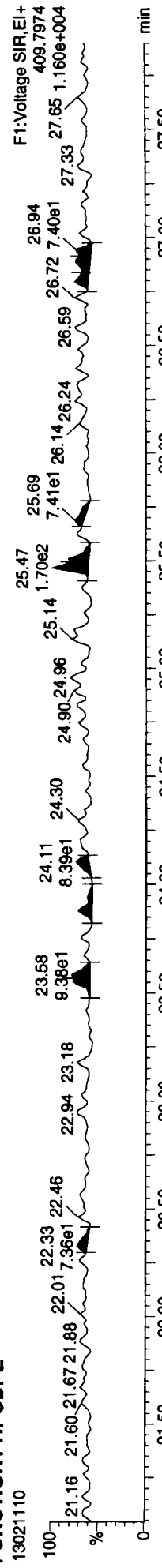
Total-penta1



Total-penta1



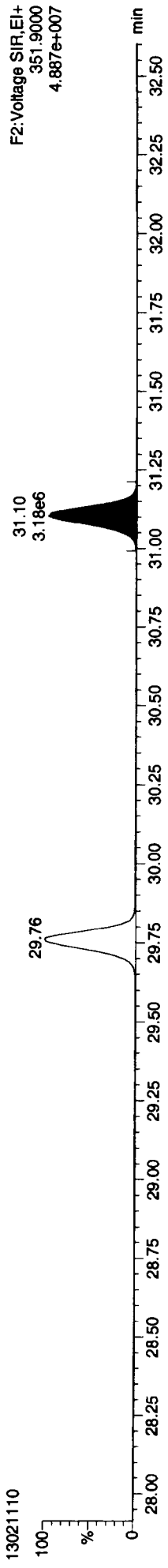
FUNCTION1 HPCDPE



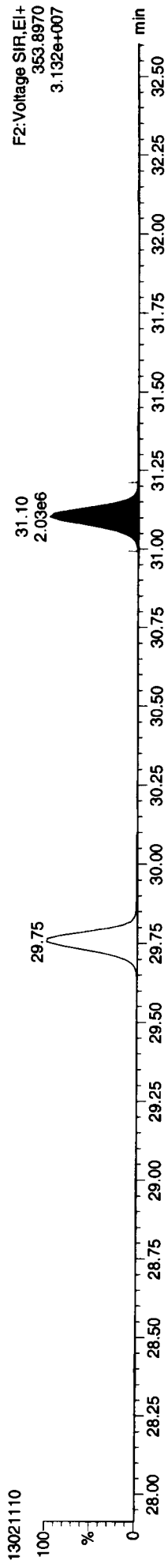
Quantify Sample Report **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

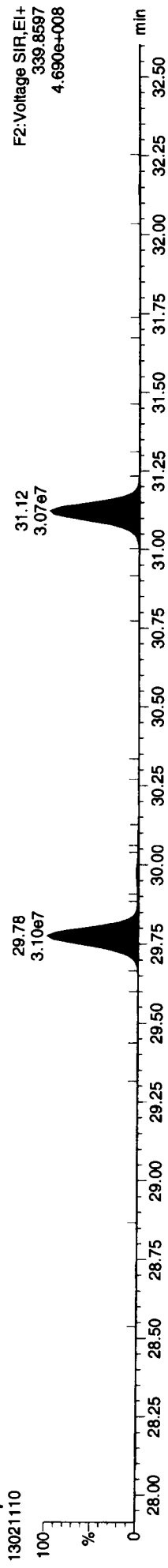
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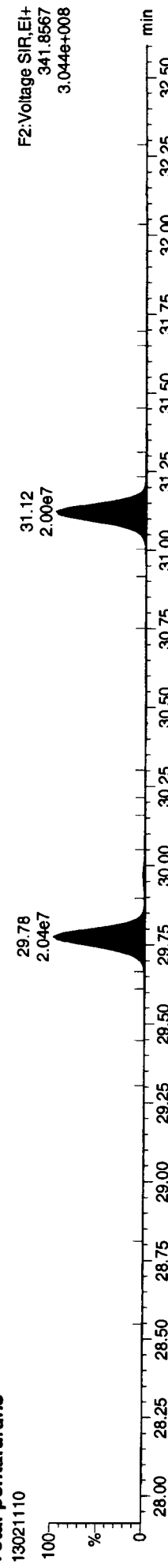
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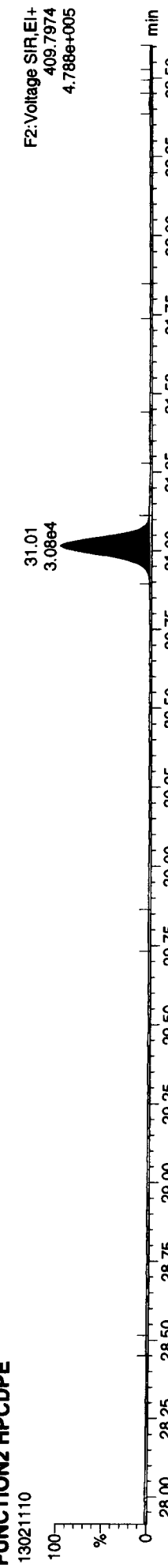
**Total-pentafurans**



**Total-pentafurans**



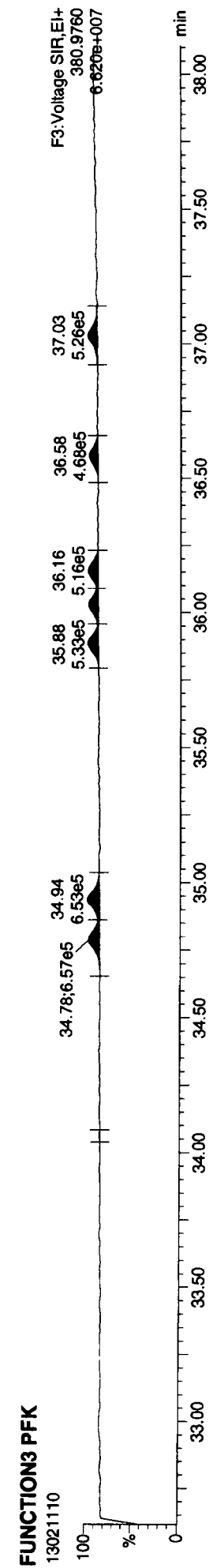
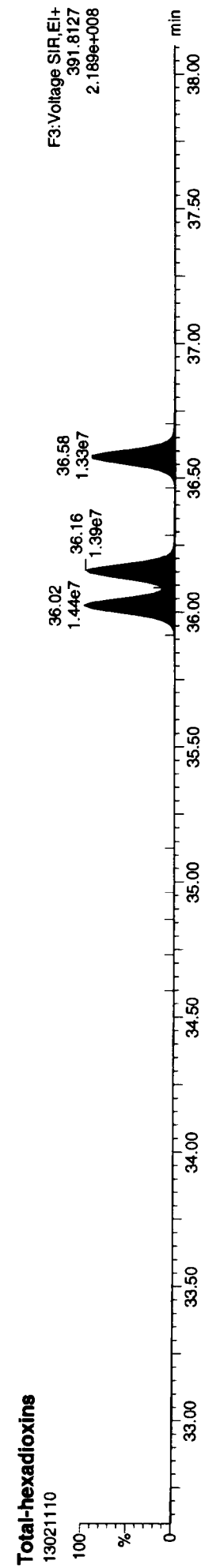
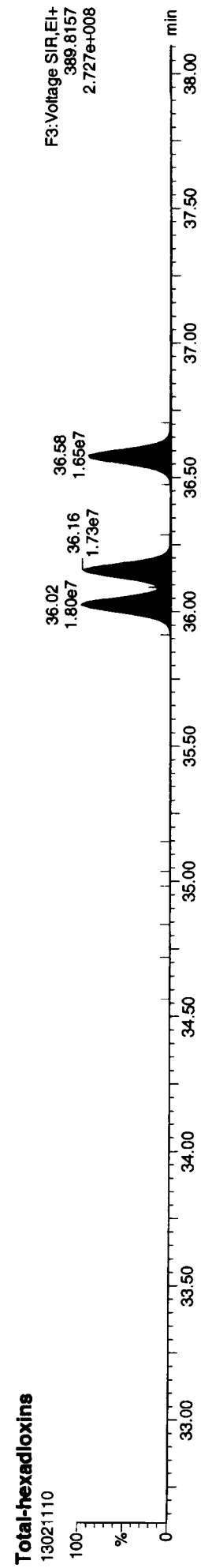
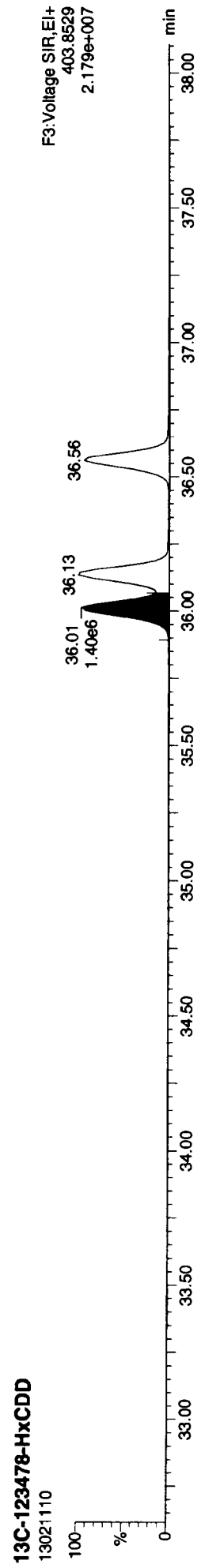
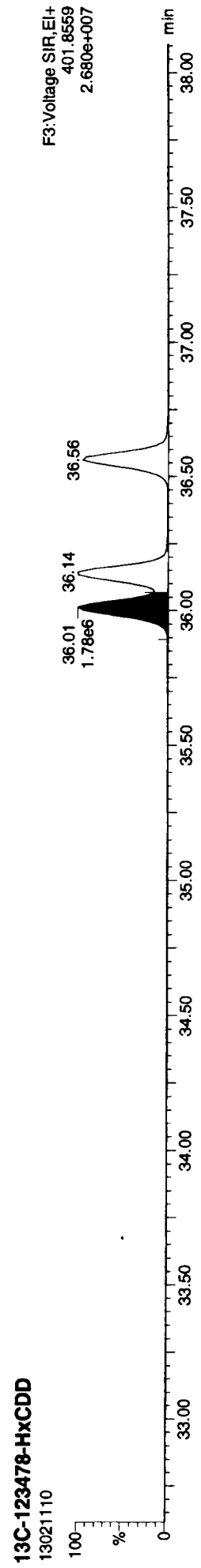
**FUNCTION2 HPCDPE**



Quantity Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

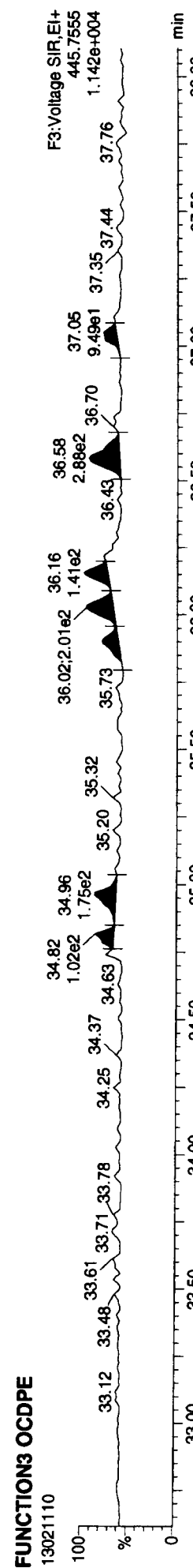
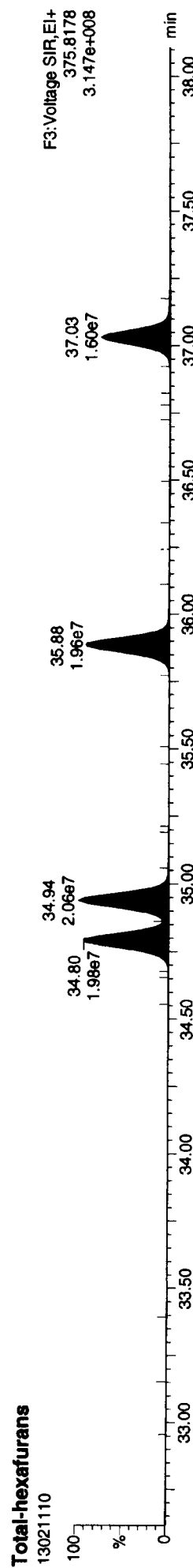
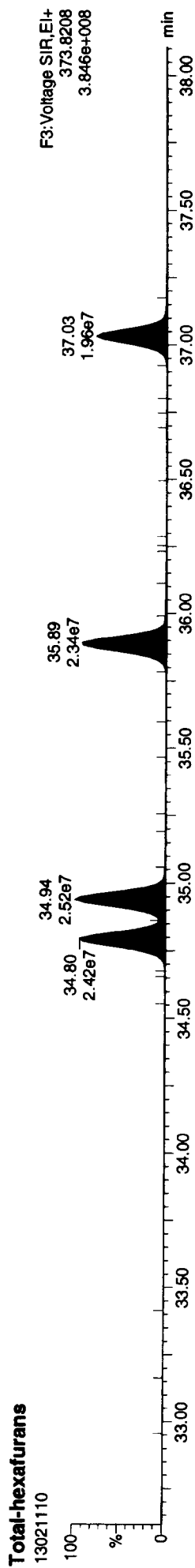
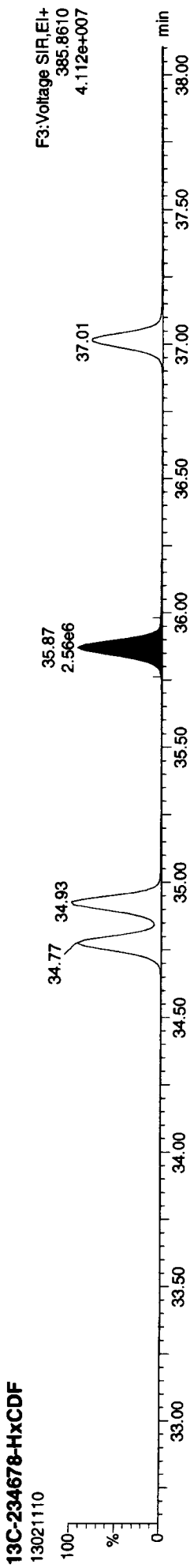
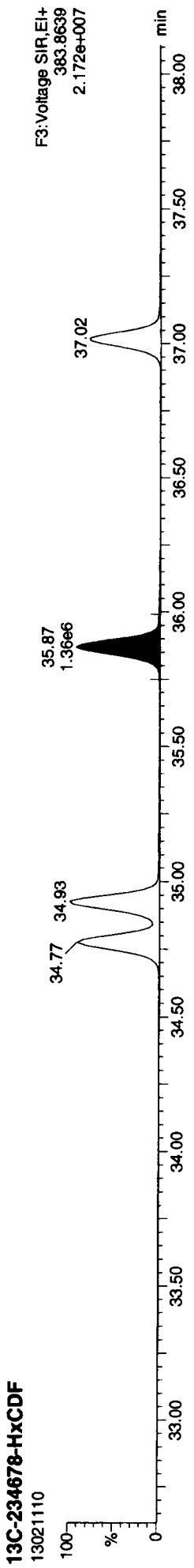
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Quantity Sample Report  
Dataset: P:\DIOXIN8200.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

MassLynx 4.1 SCN 714

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

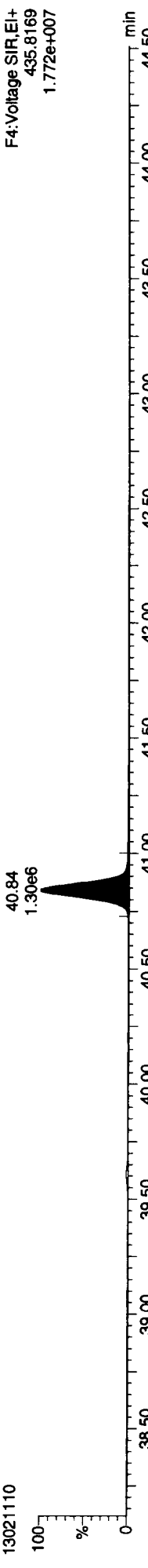


57 20 18 15 12

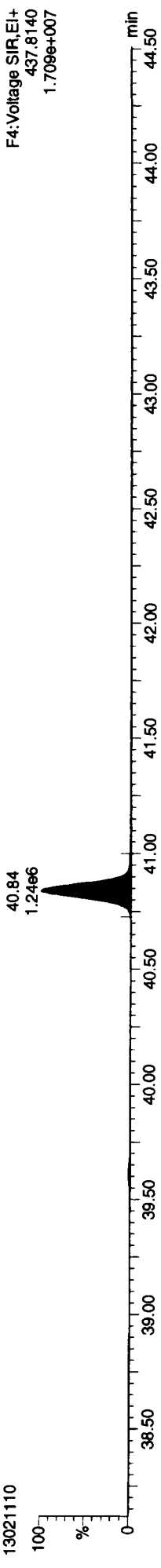
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

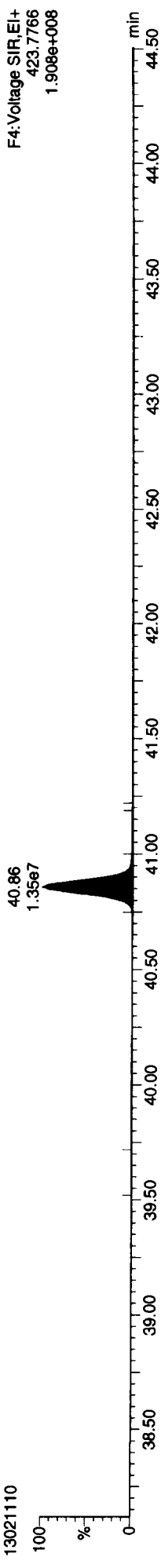
13C-1234678-HpCDD



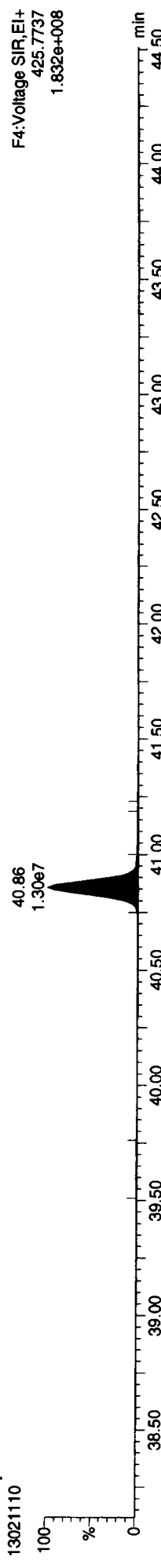
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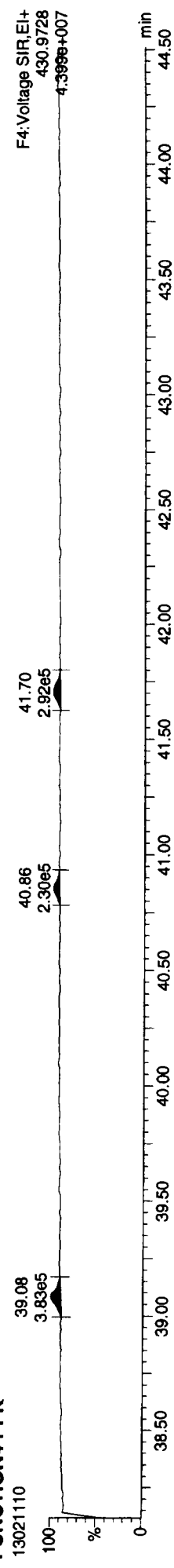
Total-heptadioxins



Total-heptadioxins

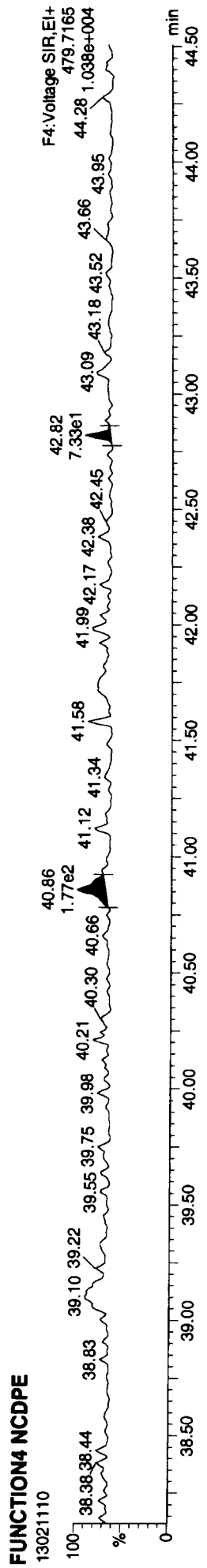
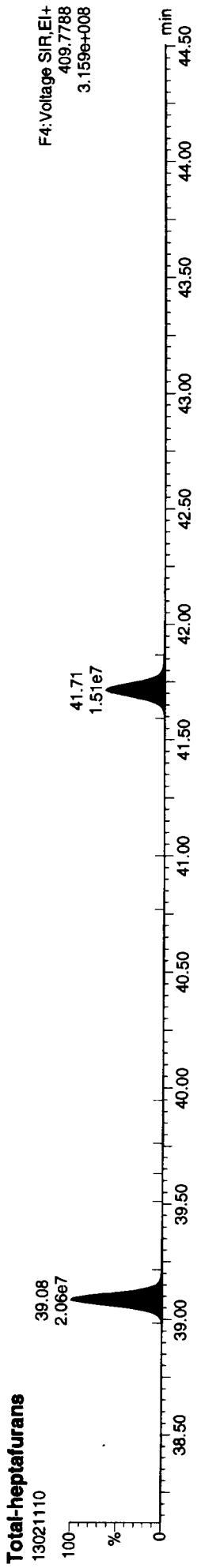
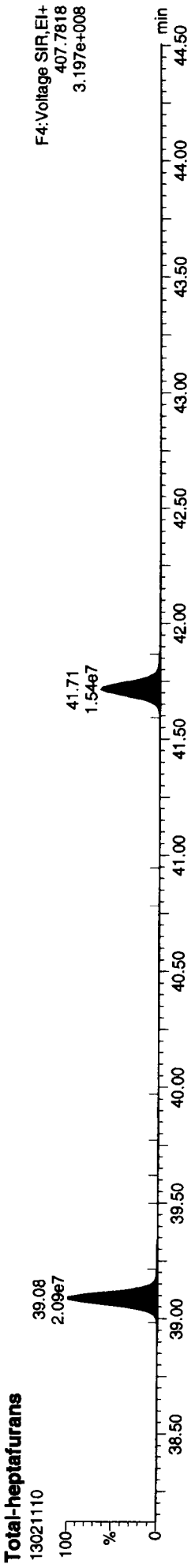
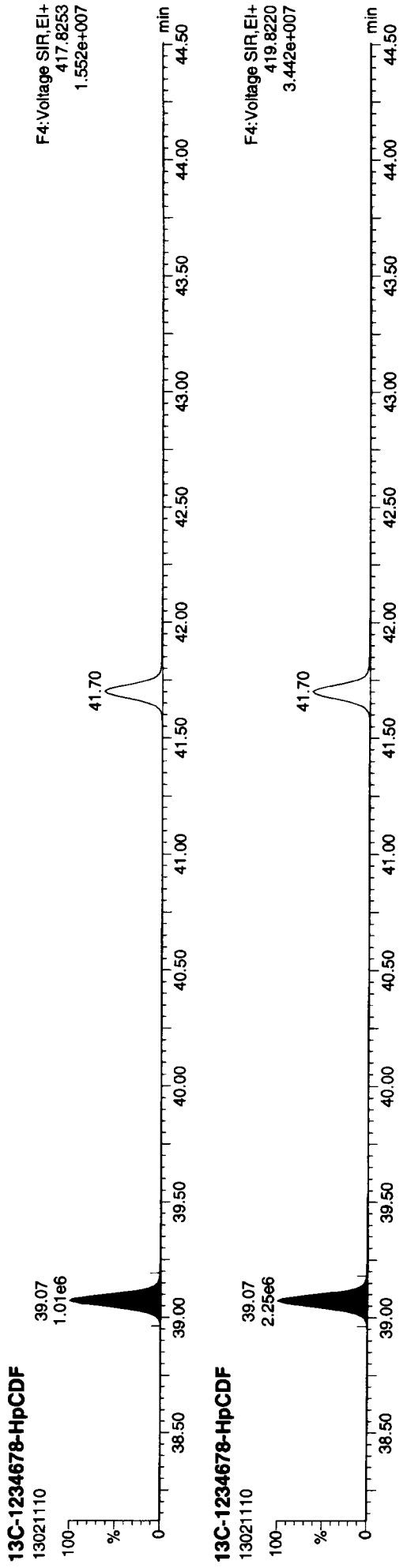


FUNCTION4 PFK



Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

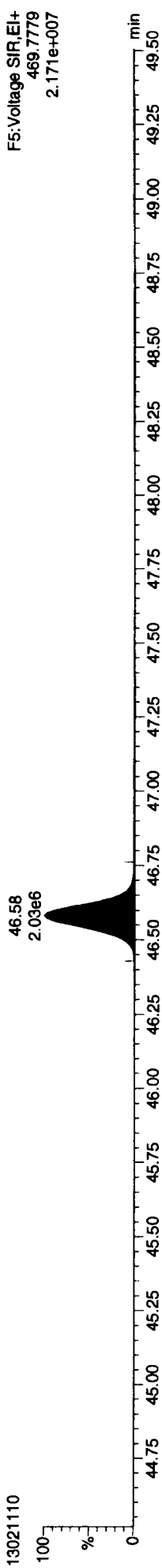


47 10 : 08 10 01

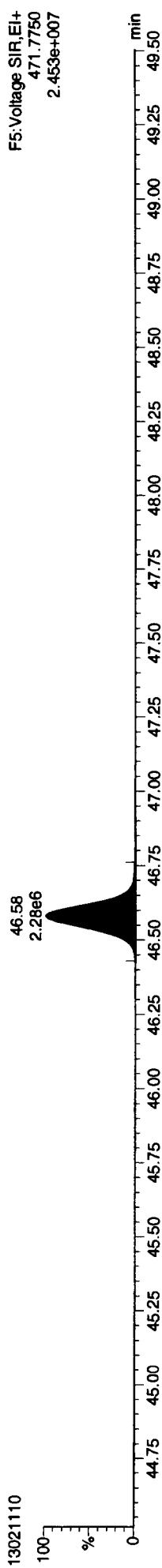
Quantity Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\1302111C.qld  
Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

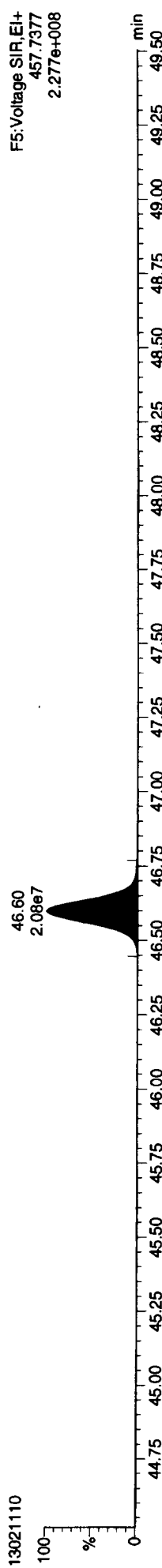
13C-OCDD



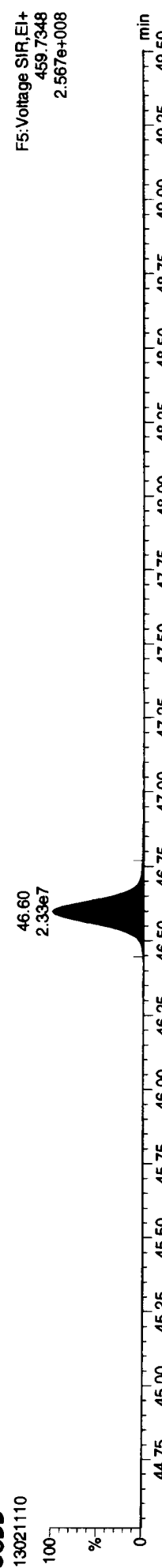
13C-OCDD



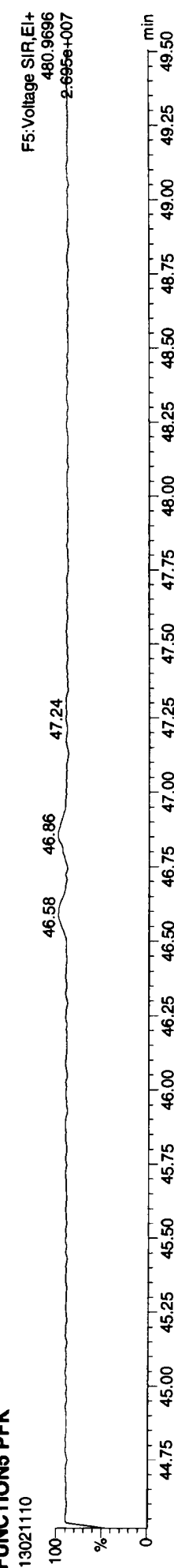
OCDD



OCDD



FUNCTION5 PFK



13021110

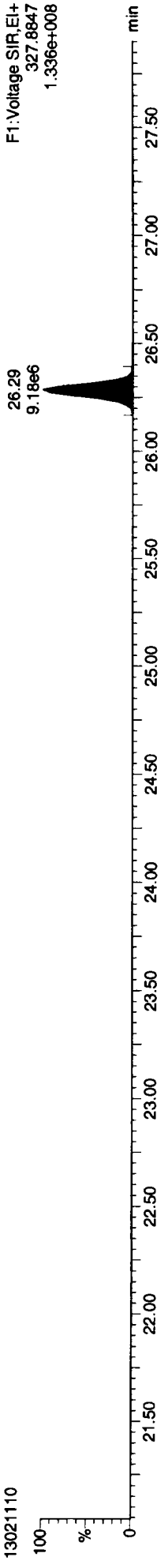


Quantity Sample Report MassLynx 4.1 SCN 714

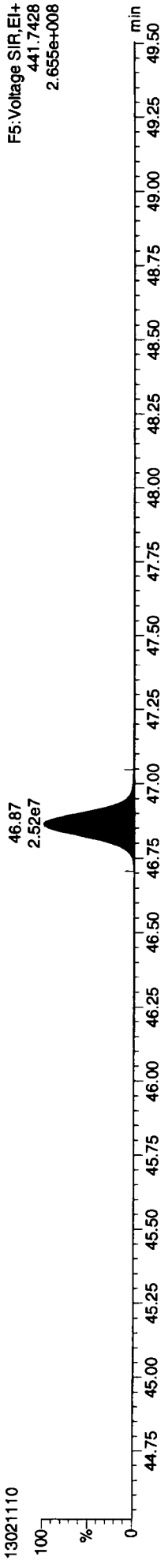
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Last Altered: Tuesday, February 12, 2013 09:29:24 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:36:39 Pacific Standard Time

ID: CS5, Name: 13021110, Date: 11-Feb-2013, Time: 19:08:49, Conditions: AUTOSPEC01, User: pk

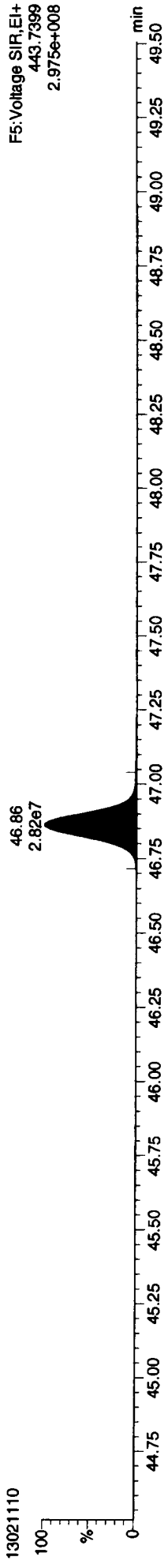
37CL-2378-TCDD



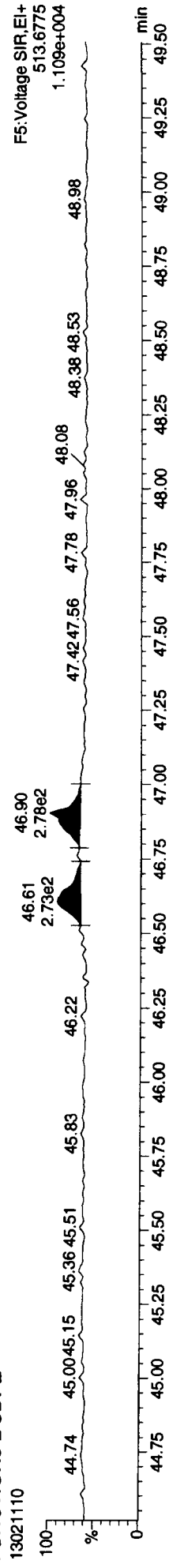
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211\DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DIoxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

2378-TCDF	25.645	1.001	1.84e5	2.36e5	0.921	0.779	0.770	2202.8	NO	10.263	10.263
12378-PeCDF	29.775	1.001	1.06e6	6.95e5	0.912	1.519	1.550	7220.8	NO	55.455	55.455
23478-PeCDF	31.124	1.001	9.81e5	6.50e5	0.943	1.510	1.550	6688.1	NO	51.026	51.026
123478-HxCDF	34.785	1.000	8.68e5	7.09e5	1.101	1.223	1.240	3859.1	NO	55.224	55.224
234678-HxCDF	35.881	1.000	8.20e5	6.76e5	1.073	1.213	1.240	3650.6	NO	52.142	52.142
123678-HxCDF	34.939	1.001	9.12e5	7.42e5	1.056	1.229	1.240	4063.3	NO	53.103	53.103
123789-HxCDF	37.032	1.001	7.08e5	5.79e5	1.017	1.221	1.240	3055.9	NO	56.998	56.998
1234678-HpCDF	39.082	1.000	7.42e5	7.20e5	1.238	1.031	1.050	4740.9	NO	53.980	53.980
1234789-HpCDF	41.713	1.001	5.46e5	5.39e5	1.224	1.014	1.050	3153.6	NO	51.085	51.085
OCDF	46.860	1.006	8.54e5	9.59e5	1.162	0.890	0.890	4231.2	NO	113.318	113.318
2378-TCDD	26.287	1.001	1.41e5	1.81e5	1.106	0.777	0.770	2572.1	NO	9.401	9.401
12378-PeCDD	31.376	1.001	6.84e5	4.44e5	1.001	1.540	1.550	5049.5	NO	47.340	47.340
123478-HxCDD	36.024	1.000	6.24e5	4.95e5	0.978	1.259	1.240	3808.6	NO	53.637	53.637
123678-HxCDD	36.155	1.001	5.81e5	4.74e5	0.929	1.225	1.240	3510.3	NO	55.100	55.100
123789-HxCDD	36.572	1.012	6.10e5	4.89e5	0.904	1.246	1.240	3626.4	NO	57.944	57.944
1234678-HpCDD	40.858	1.001	5.12e5	4.92e5	1.029	1.039	1.050	3699.0	NO	50.430	50.430
OCDD	46.590	1.000	7.20e5	8.22e5	1.011	0.876	0.890	5351.2	NO	110.720	110.720
13C-2378-TCDF	25.630	1.007	1.95e6	2.49e6	1.522	0.796	0.770	11416.2	NO	86.528	86.528
13C-12378-PeCDF	29.753	1.169	2.12e6	1.34e6	1.185	1.580	1.550	9514.8	NO	86.584	86.584
13C-23478-PeCDF	31.102	1.222	2.07e6	1.32e6	1.136	1.575	1.550	9288.5	NO	88.557	88.557
13C-123478-HxCDF	34.774	0.951	8.94e5	1.70e6	1.284	0.526	0.510	2895.9	NO	93.022	93.022
13C-123678-HxCDF	34.917	0.955	1.01e6	1.94e6	1.383	0.523	0.510	3123.0	NO	98.202	98.202
13C-234678-HxCDF	35.870	0.981	9.08e5	1.77e6	1.283	0.514	0.510	2952.4	NO	95.953	95.953
13C-123789-HxCDF	37.011	1.012	7.58e5	1.46e6	1.099	0.519	0.510	2337.4	NO	92.994	92.994
13C-1234678-HpCDF	39.071	1.069	6.75e5	1.51e6	1.070	0.446	0.440	4311.9	NO	94.214	94.214
13C-1234789-HpCDF	41.691	1.140	5.29e5	1.21e6	0.774	0.438	0.440	2985.9	NO	103.310	103.310
13C-1234-TCDD	25.451	0.000	1.49e6	1.88e6	1.000	0.794	0.770	5617.6	NO	100.000	100.000
13C-2378-TCDD	26.272	1.032	1.36e6	1.73e6	0.943	0.787	0.770	4994.7	NO	97.251	97.251
13C-12378-PeCDD	31.354	1.232	1.46e6	9.20e5	0.715	1.588	1.550	11740.4	NO	98.753	98.753
13C-123478-HxCDD	36.013	0.985	1.19e6	9.41e5	1.032	1.289	1.240	3830.2	NO	95.208	95.208
13C-123678-HxCDD	36.133	0.988	1.15e6	9.10e5	1.076	1.263	1.240	3662.3	NO	88.126	88.126
13C-1234678-HpCDD	40.836	1.117	9.87e5	9.50e5	0.838	1.039	1.050	5914.4	NO	106.431	106.431
13C-OCDD	46.572	1.274	1.30e6	1.46e6	0.675	0.888	0.890	7809.7	NO	187.770	187.770

Quantity Sample Summary Report MaaeLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

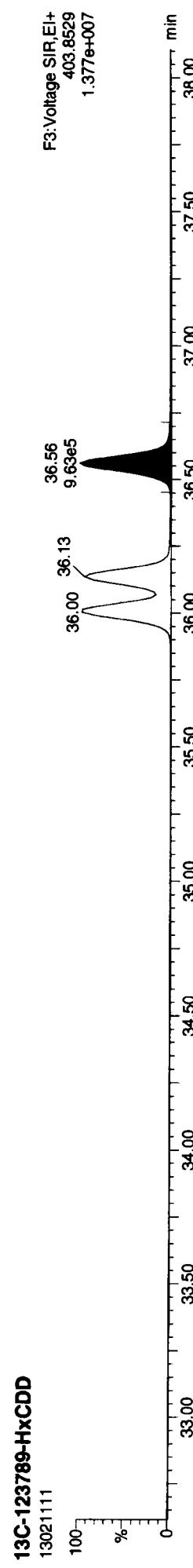
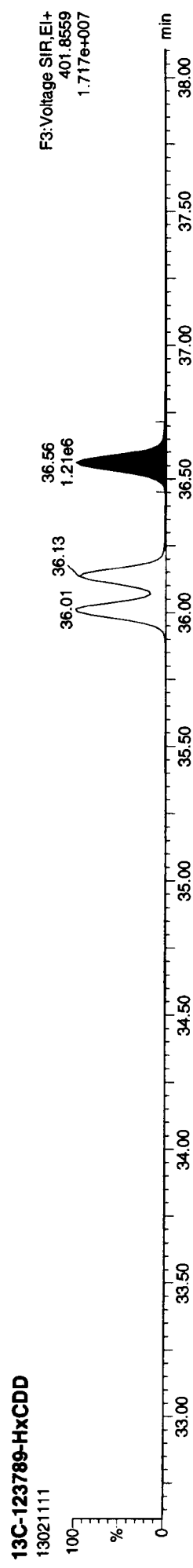
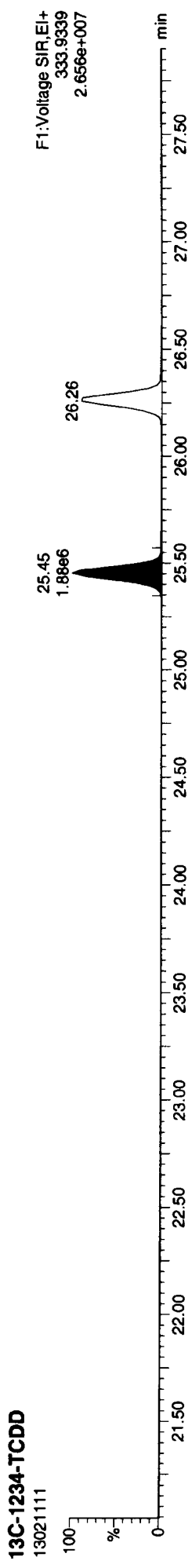
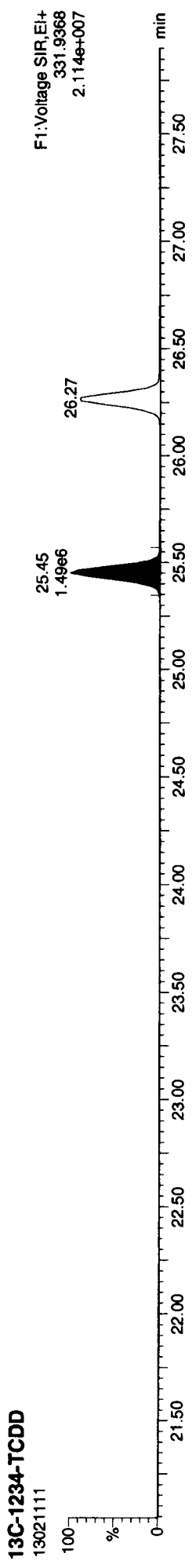
13C-123789-HxCDD	36.561	0.000	1.21e6	9.63e5	1.000	1.255	1.240	3800.5	NO	100.000
Total-tetrafurans			1.86e5		0.921					10.395
Total-penta			0.00e0							
Total-pentafurans			2.06e6		0.927					107.598
Total-hexafurans			3.31e6		1.062					217.508
Total-heptafurans			1.29e6		1.231					105.225
Total-Furans			7.70e6		1.065					554.045
Total-tetra-dioxins			1.44e5		1.106					9.537
Total-penta-dioxins			6.86e5		1.001					47.450
Total-hexa-dioxins			1.82e6		0.937					166.786
Total-hepta-dioxins			5.20e5		1.029					51.106
Total-Dioxins			3.89e6		0.994					385.603
Total-TEQ			1.16e7							939.648
37CL-2378-TCDD	26.287	1.033	3.33e5		1.051			3469.6		9.392
FUNCTION1 PFK			5.85e7							
FUNCTION2 PFK			3.52e5							0.000
FUNCTION3 PFK			1.31e6							0.000
FUNCTION4 PFK			0.00e0							
FUNCTION5 PFK			3.98e5							
FUNCTION1 HXCDPE			0.00e0							0.000
FUNCTION1 HPCDPE			5.03e2							0.000
FUNCTION2 HPCDPE			2.23e2							0.000
FUNCTION3 OCDPE			0.00e0							
FUNCTION4 NCDPE			7.81e1							0.000
FUNCTION5 DCDPE			0.00e0							

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130211\DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

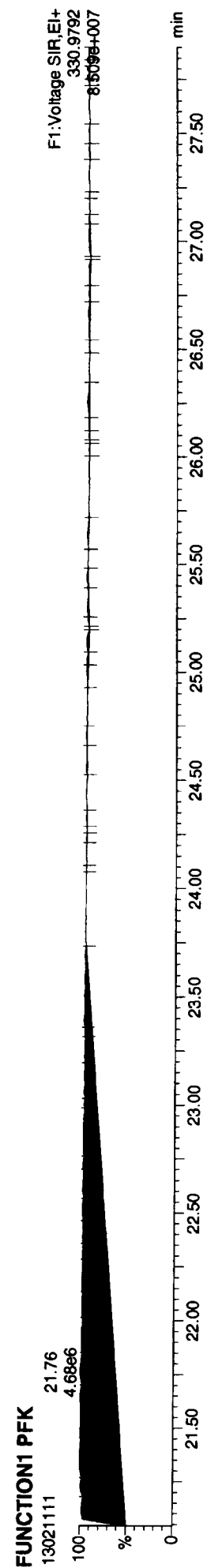
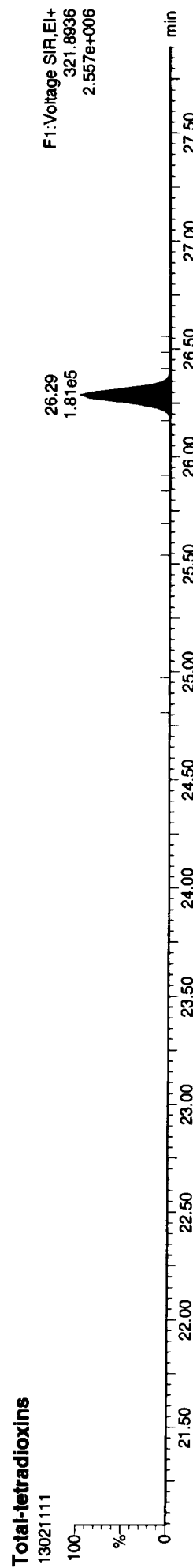
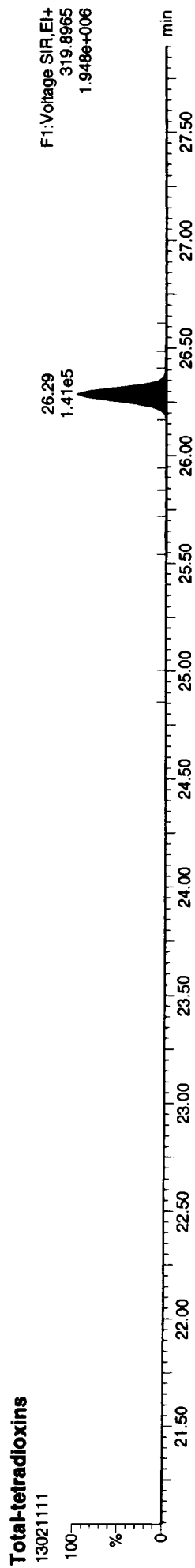
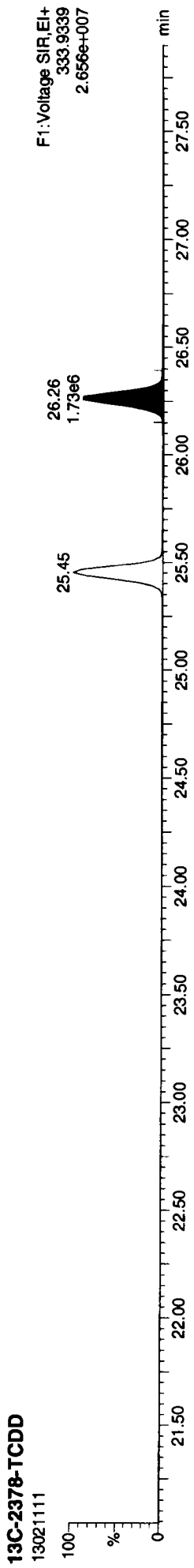
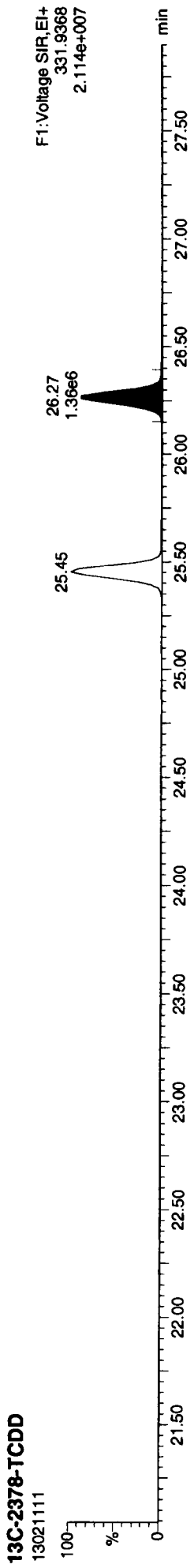
Method: P:\DIOXIN8290.PRO\MethDB\DIODioxin130204.mdb 04 Feb 2013 12:23:30  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\1302111\DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



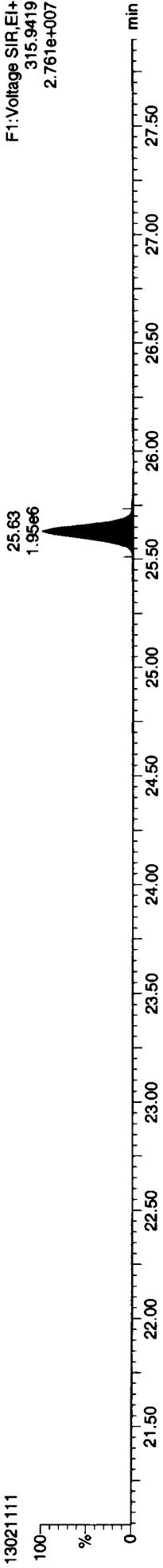
Dataset: P:\DIOXIN8290.PRO\130211DATA.qld

Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time

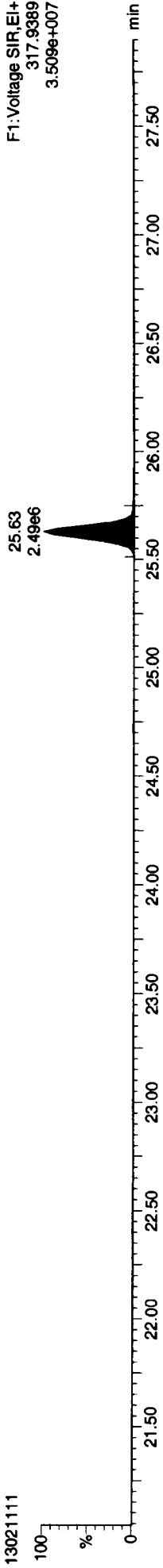
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

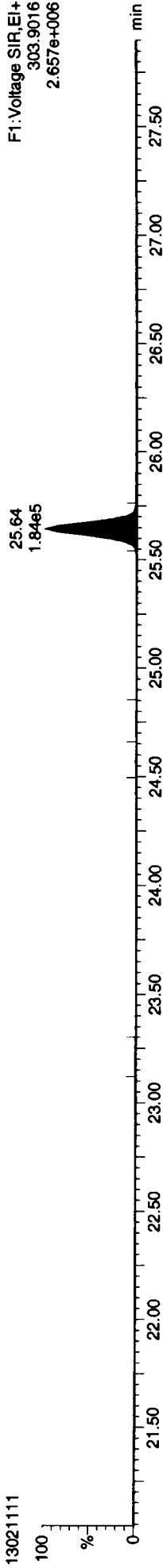
13C-2378-TCDF



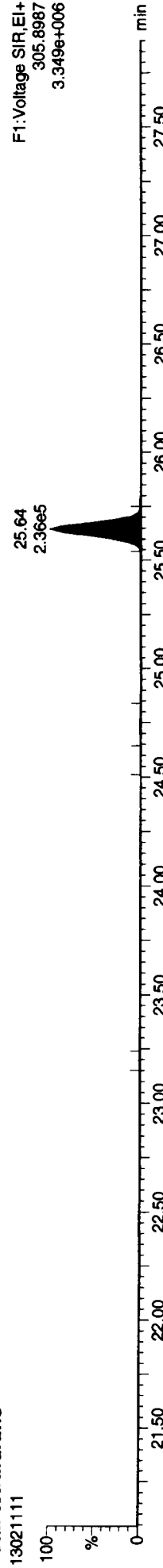
13C-2378-TCDF



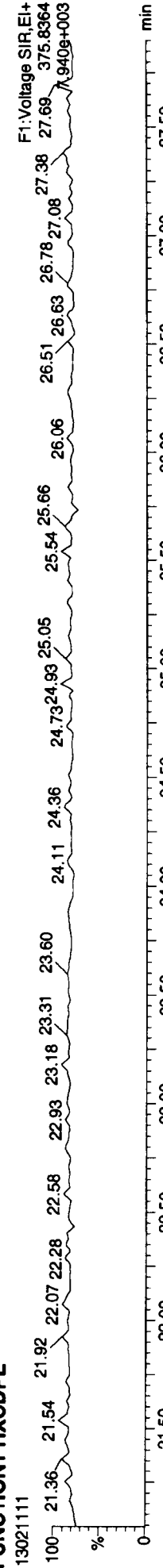
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



Quantity Sample Report MassLynx 4.1 SCN 714

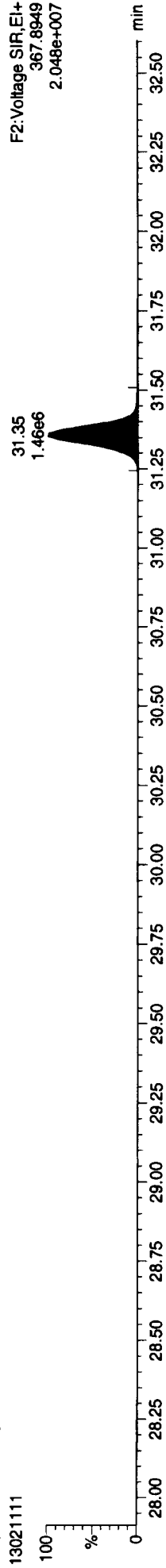
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Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time

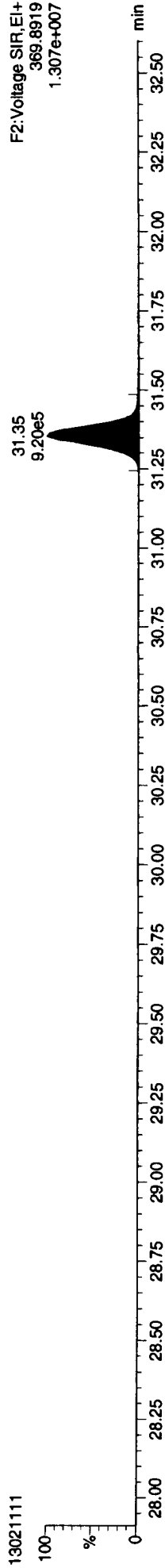
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

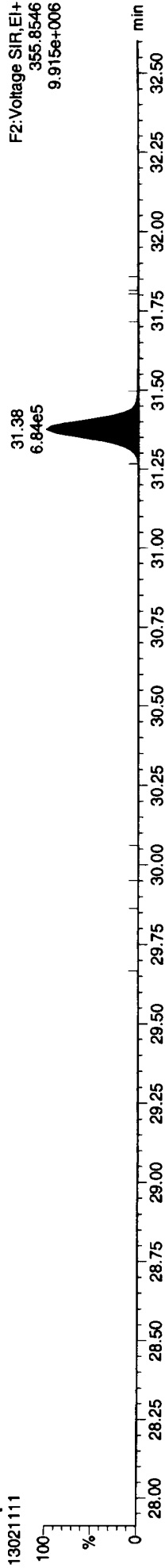
13C-12378-PeCDD



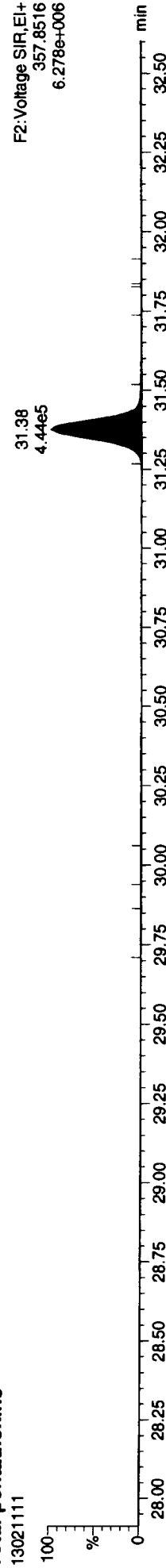
13C-12378-PeCDD



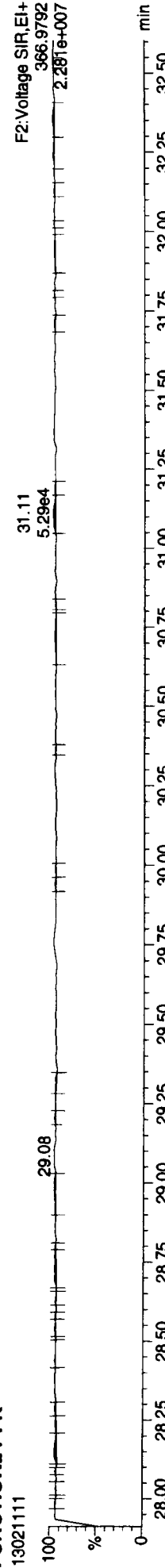
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

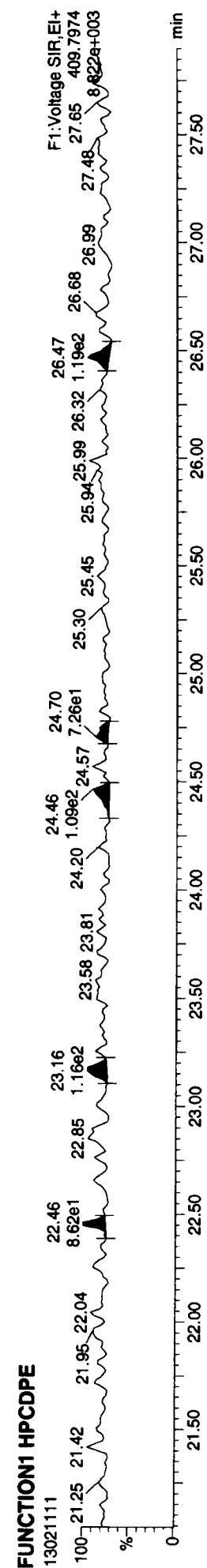
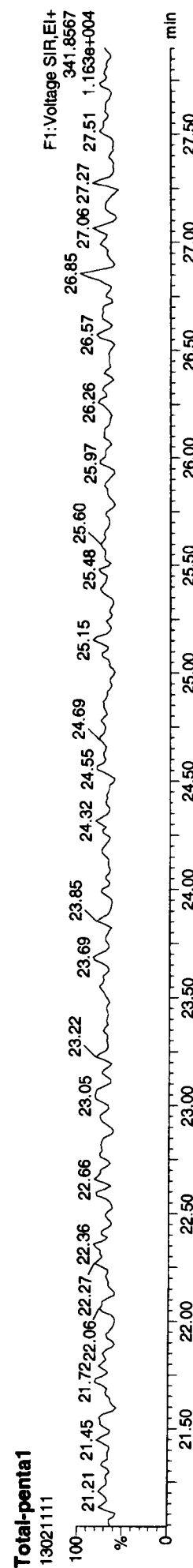
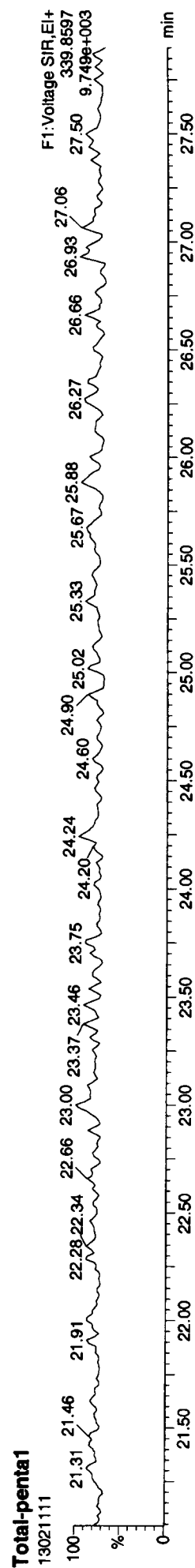
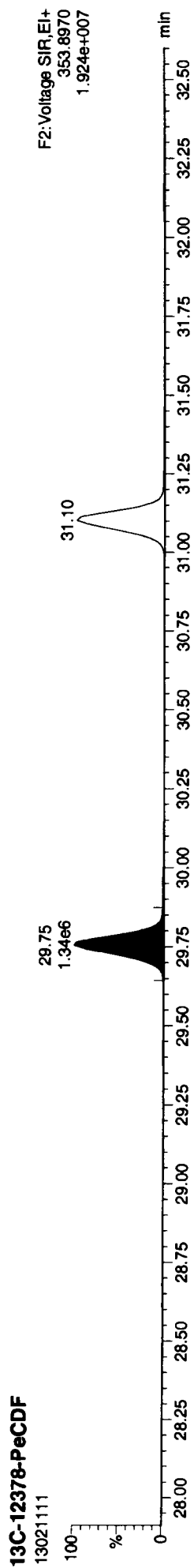
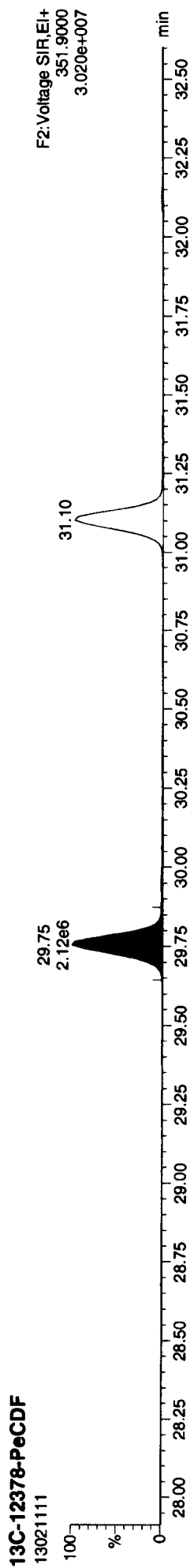


Dataset: P:\DIOXIN8290.PRO\130211DATA.qld

Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time

Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



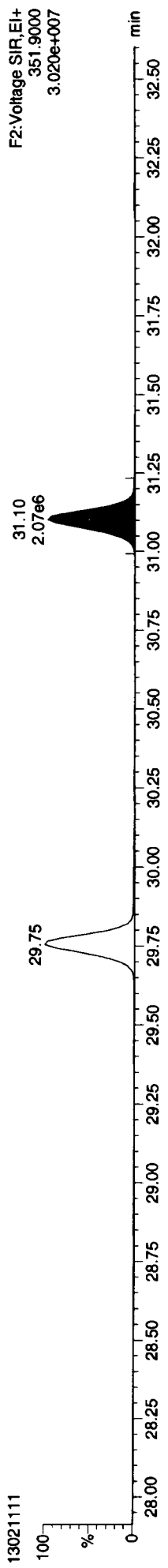
57120 : 08104



Quantity Sample Report MacLynx 4.1 SCN 714  
Dataset: P:\DIOXIN\8290.PRO\130211DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

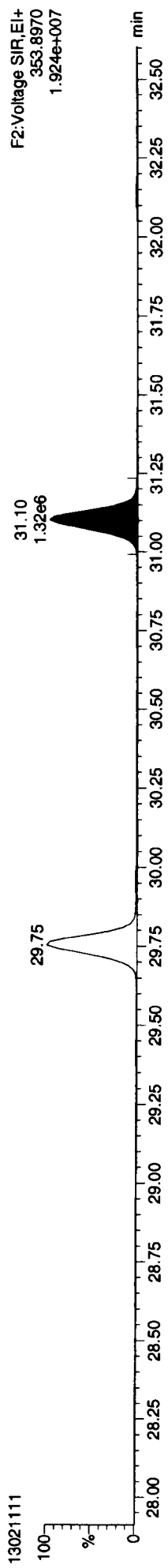
ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF



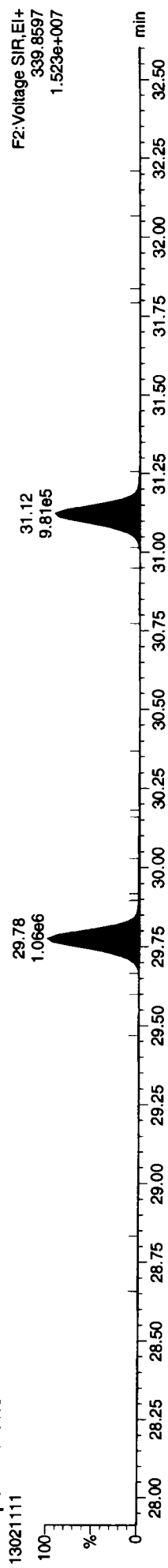
F2: Voltage SIR, EI+  
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3.020e+007

13C-23478-PeCDF



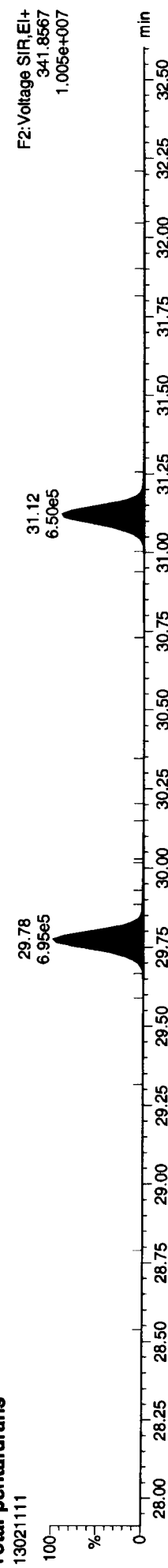
F2: Voltage SIR, EI+  
353.8970  
1.924e+007

Total-pentafurans



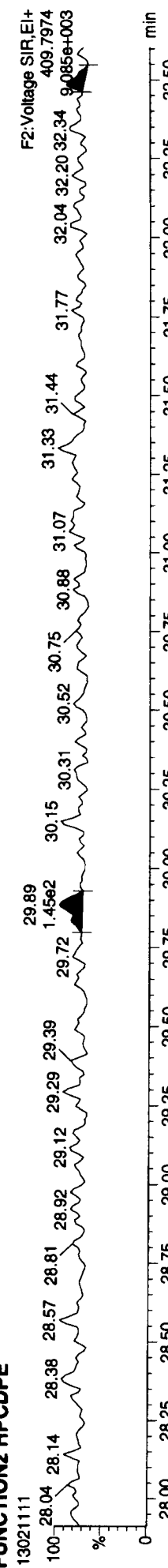
F2: Voltage SIR, EI+  
339.8597  
1.523e+007

Total-pentafurans



F2: Voltage SIR, EI+  
341.8567  
1.005e+007

FUNCTION2 HPCDPE

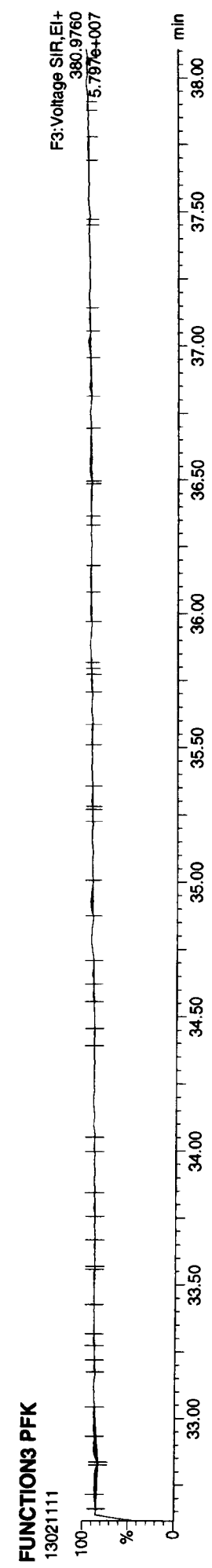
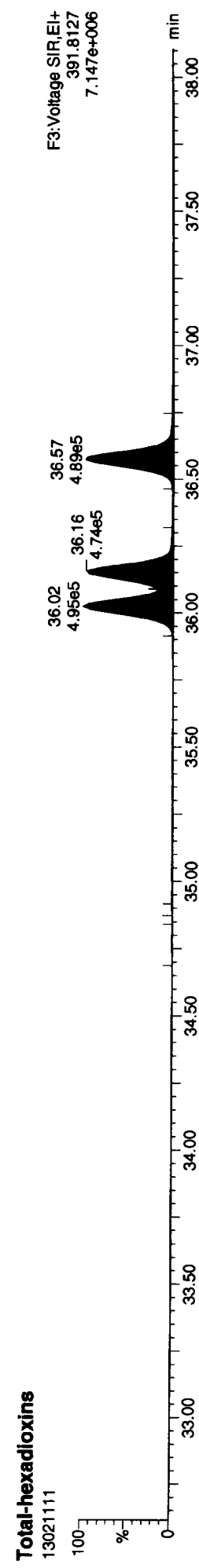
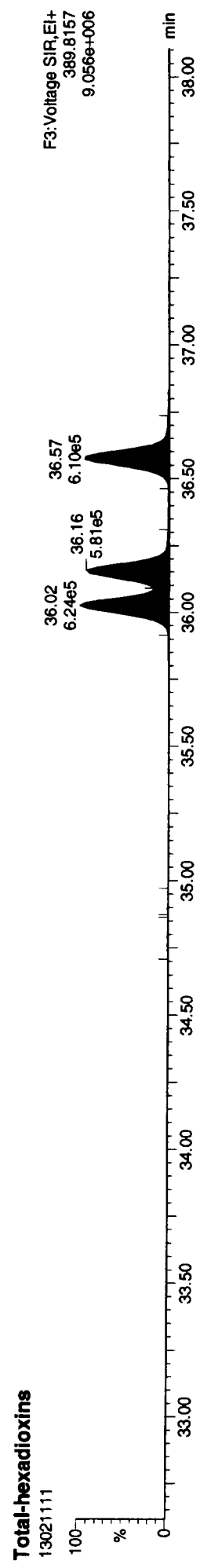
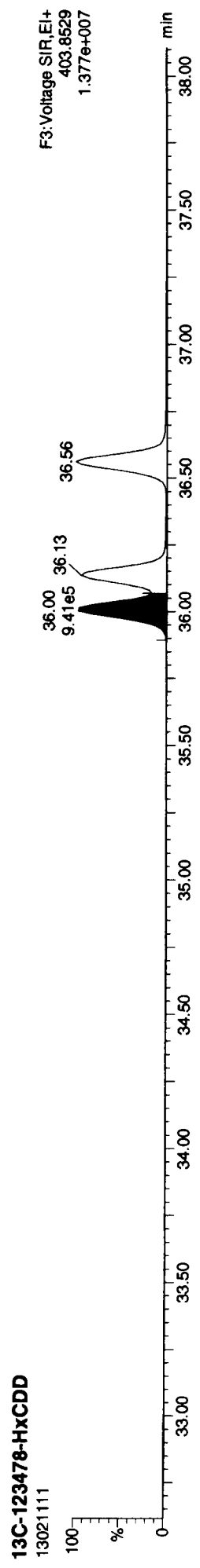
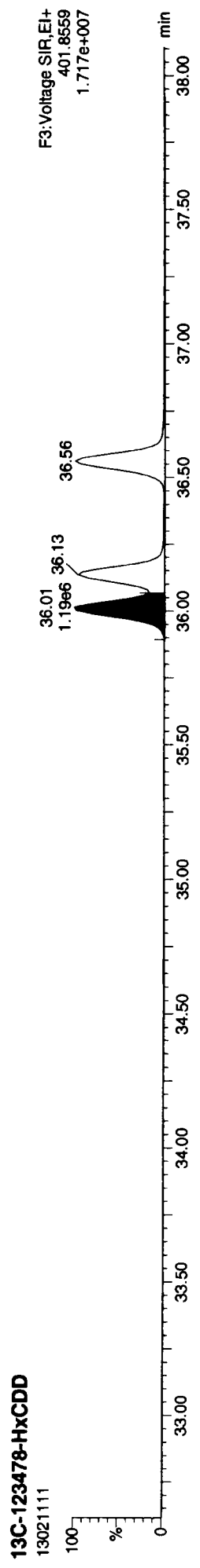


F2: Voltage SIR, EI+  
409.7974  
9.085e+003

57 20 : 08 10 07

Quantify Sample Report    MassLynx 4.1 GCN 714  
Dataset: P:\DIOXIN8290.PRO\130211DATA.qid  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

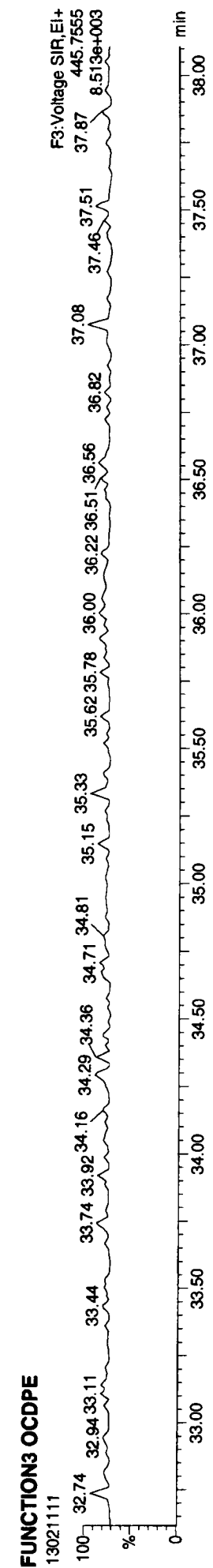
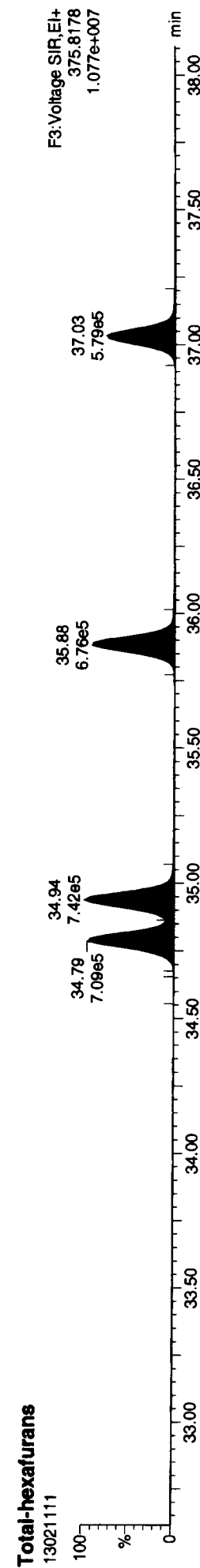
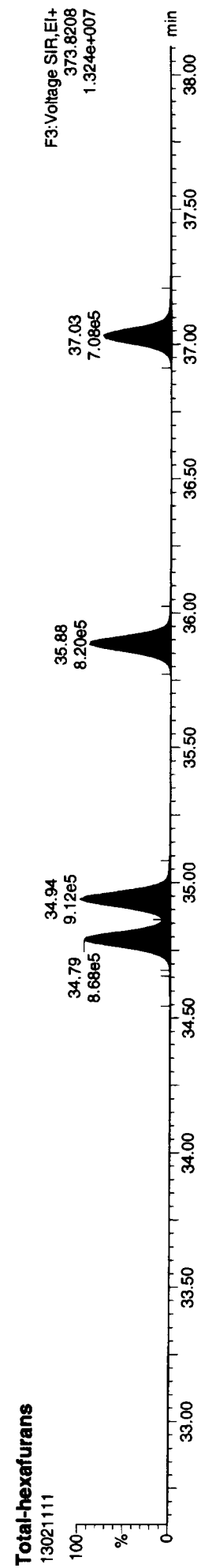
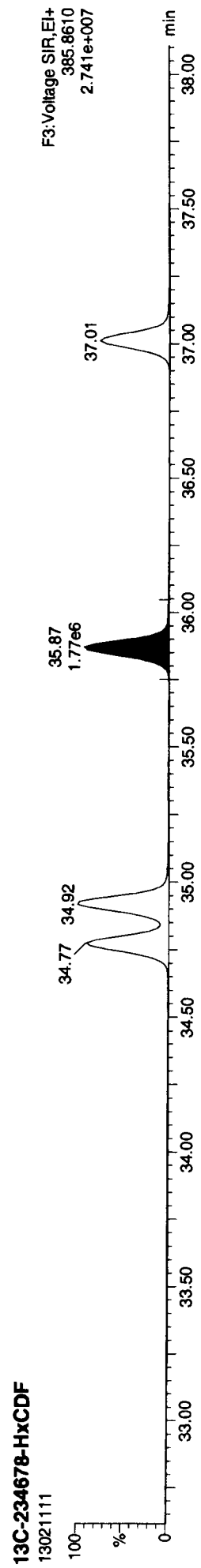
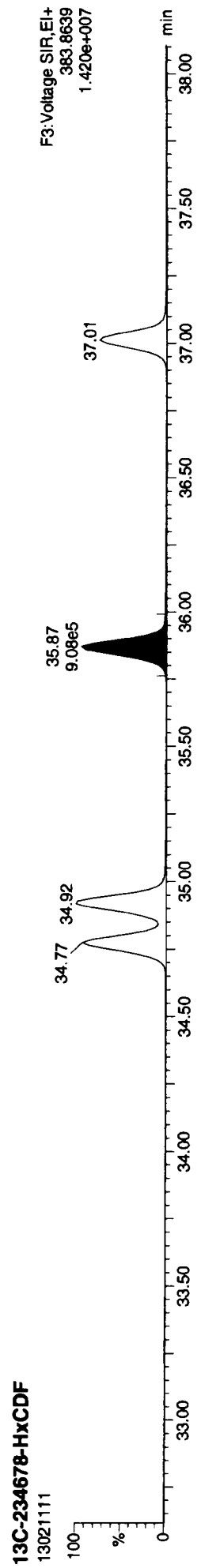
ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



57 20 08 10 0

Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130211DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

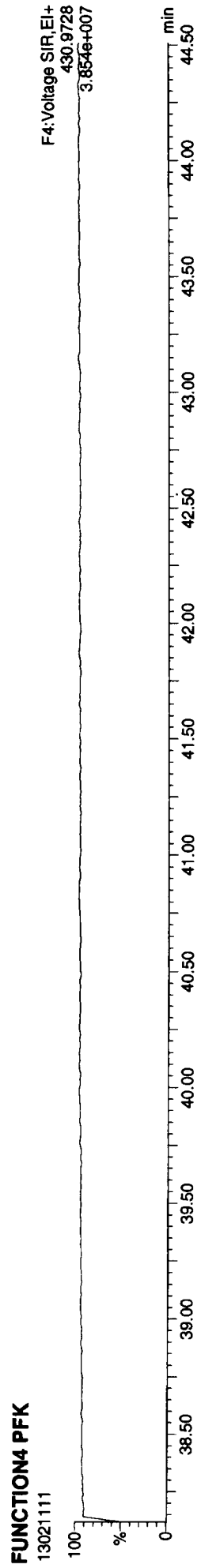
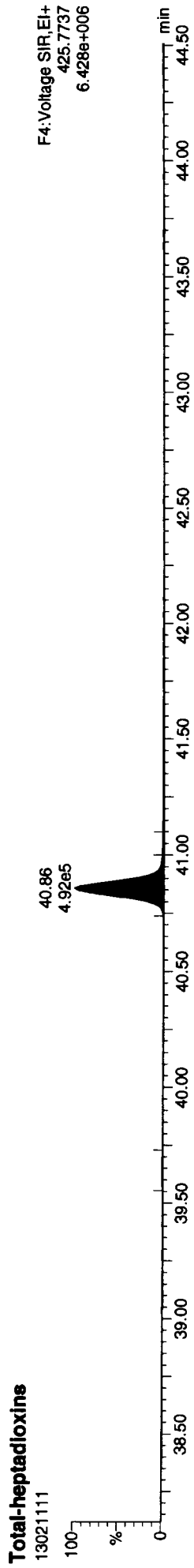
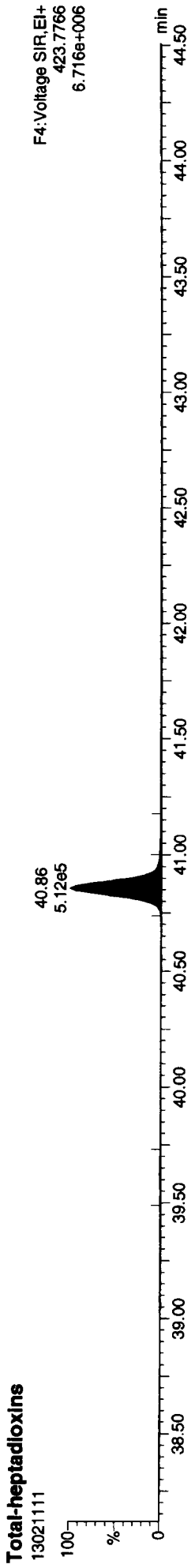
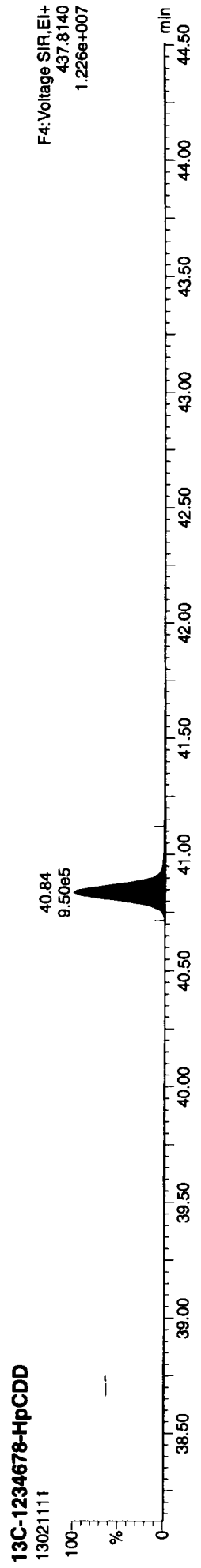
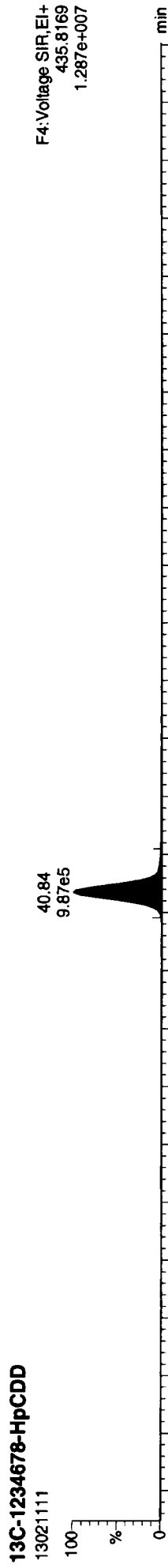
ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



57 20 : 08 10 7

Dataset: P:\DIOXIN8290.PRO\130211\DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



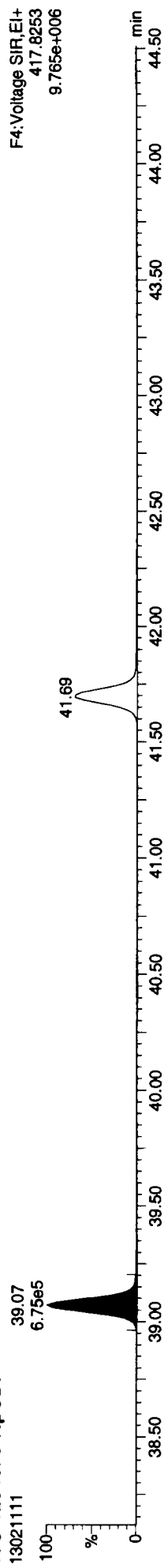
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Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time

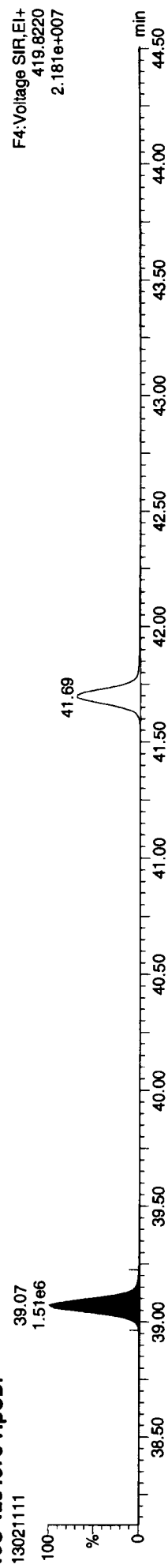
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

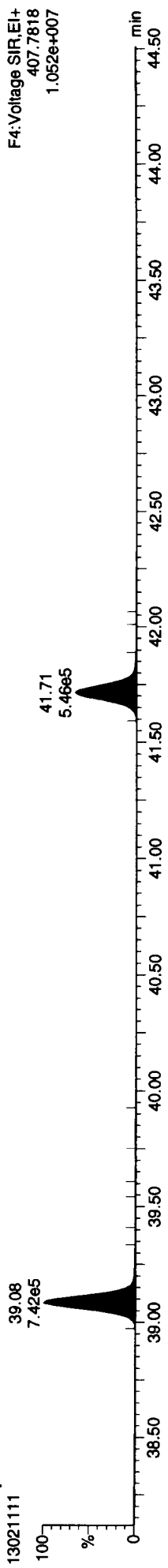
13C-1234678-HpCDF



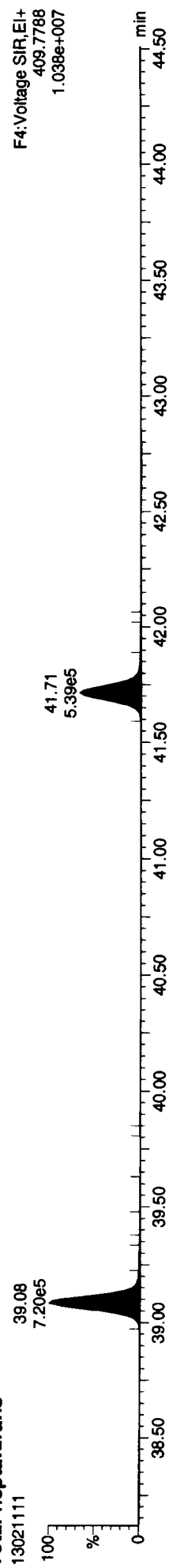
13C-1234678-HpCDF



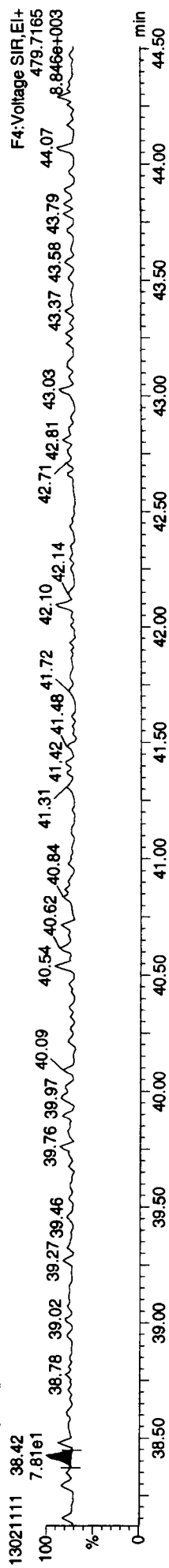
Total-heptafurans



Total-heptafurans



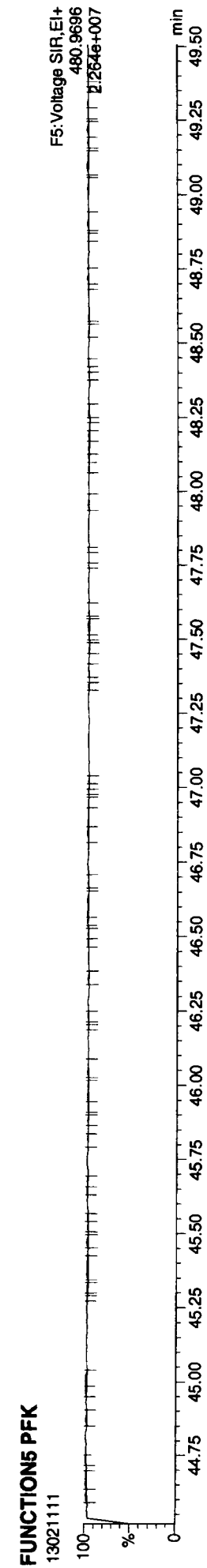
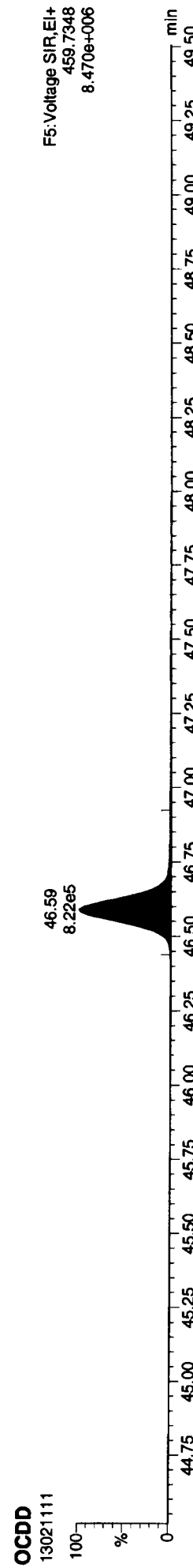
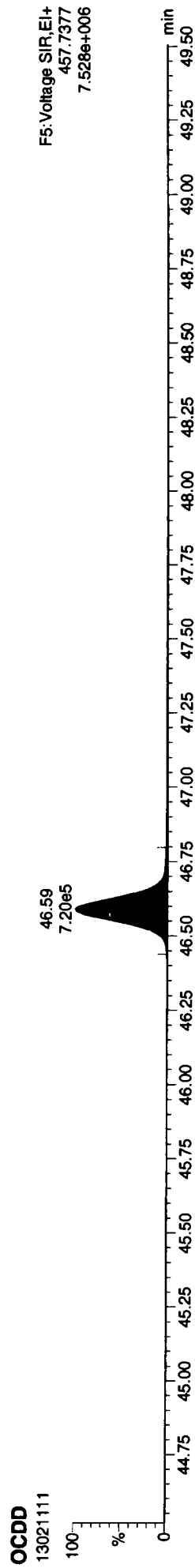
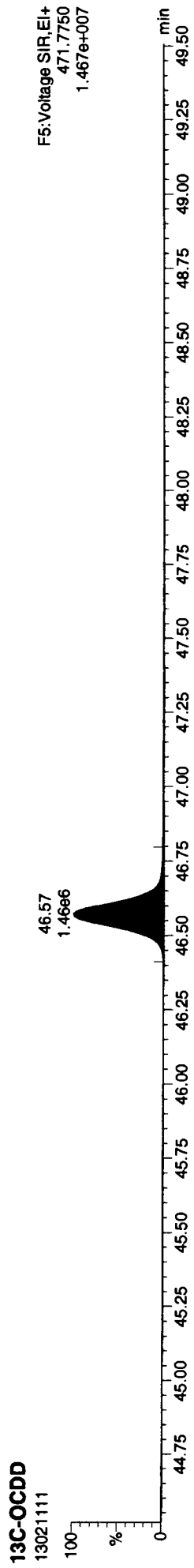
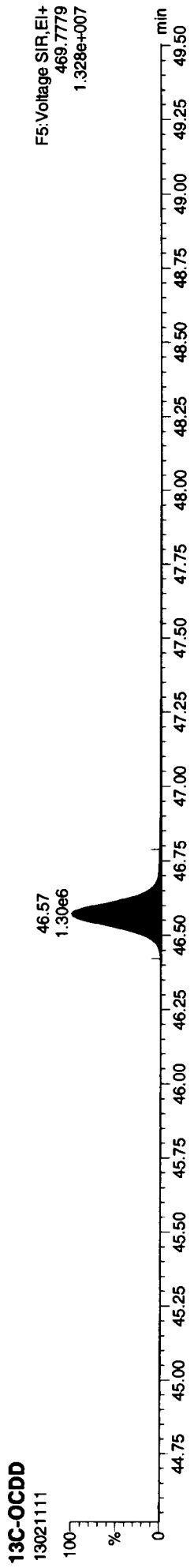
FUNCTION4 NCDPE



Quantity Sample Report  
Dataset: P:\DIOXIN8290.PRO\1302111\DATA.qld  
Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time  
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

MassLynx 4.1 SCN 714

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk



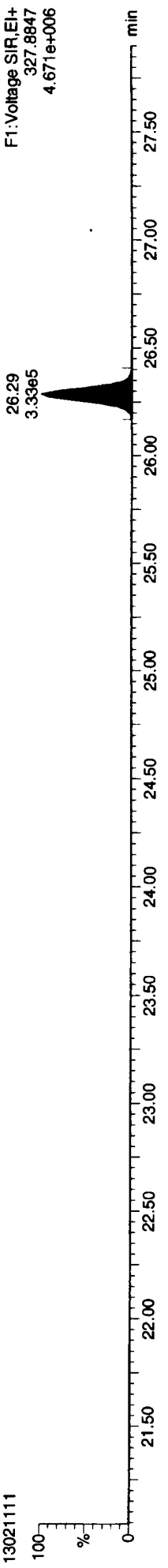
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Last Altered: Tuesday, February 12, 2013 09:40:18 Pacific Standard Time

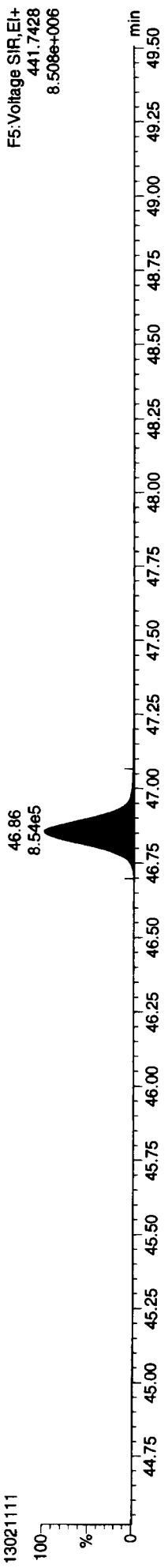
Printed: Tuesday, February 12, 2013 09:41:37 Pacific Standard Time

ID: ICV, Name: 13021111, Date: 11-Feb-2013, Time: 20:01:34, Conditions: AUTOSPEC01, User: pk

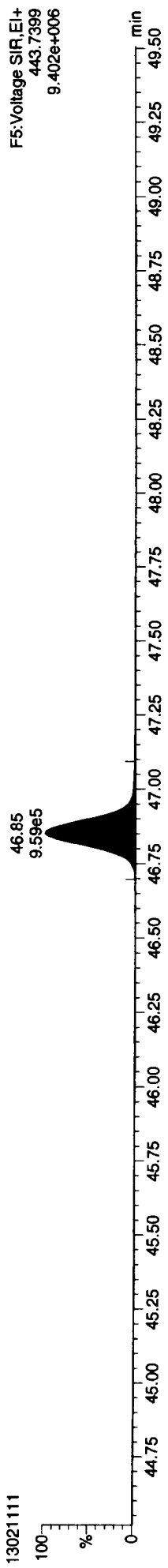
37CL-2378-TCDD



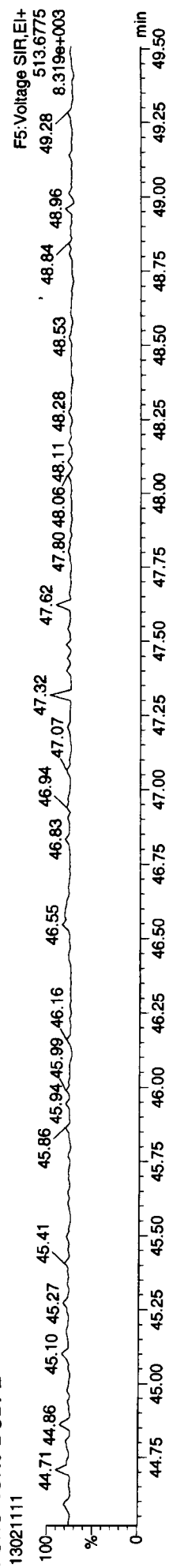
OCDF



OCDF



FUNCTIONS DCDPE



Dataset: P:\DIOXIN8290.PRO\130211IC.qld  
 Last Altered: Monday, February 18, 2013 11:13:18 Pacific Standard Time  
 Printed: Monday, February 25, 2013 15:45:40 Pacific Standard Time

Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:13021105, Compound:TF, RT:25.645	1
Peak modified	Sample:13021105, Compound:TF, RT:25.645	1
Pre modification peak	Sample:13021105, Compound:PF, RT:31.123	1
Peak modified	Sample:13021105, Compound:PF, RT:31.123	1
Pre modification peak	Sample:13021105, Compound:PD, RT:31.386	1
Peak modified	Sample:13021105, Compound:PD, RT:31.386	1
Peak modified	Sample:13021105, Compound:PD, RT:31.386	1
Pre modification peak	Sample:13021105, Compound:OD, RT:46.598	1
Peak modified	Sample:13021105, Compound:OD, RT:46.598	1
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	
Calibration Saved	Saved to 'P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb'	
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	
Custom Reporting	Custom data added to the dataset.	
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	
Custom Reporting	Custom data added to the dataset.	
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	
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Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	
Custom Reporting	Custom data added to the dataset.	
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\130211IC.qld'	



**Dioxin Raw Data  
Run Logs, Continuing Calibrations, and Raw Data**

**ARI Job ID: WF26**



### HR-GC/MS Analyst Notes / Data Review Checklist

ARI Work Order: WF26 Client ID: Play-Sneider

METHOD: 1613B (Dioxins) 8290A (Dioxins)

Instrument: AutoSpec01

Curve Date: 2/6/13 Analysis Start Date: 3/5/13

	REVIEW 1/REVIEW 2		REVIEW 1/REVIEW 2
Resolution Check > 10,000ppm	<u>Y</u> /N/___	Signal / Noise ≥ 2.5?	<u>Y</u> /N/___
TCDD / TCDF Resolution ≤ 25%	<u>Y</u> /N/___	Extraction STD Limits Met?	<u>Y</u> /N/___
PCDF Windows Verified	<u>Y</u> /N/___	Cleanup STD Limits Met?	<u>Y</u> /N/___
CCV Meets %D Limits?	<u>Y</u> /N/___	Method Blank in Control?	<u>Y</u> /N/___
CCV Ion Ratios within Limits?	<u>Y</u> /N/___	OPR Recovery Limits Met?	<u>Y</u> /N/___
CCV RRT within Limits?	<u>Y</u> /N/___	Values Exceeding Curve Range?	Y/ <u>N</u> /___
Manual Integrations for Samples?	<u>Y</u> /N/___	Samples Diluted?	Y/ <u>N</u> /___
Special Analysis Request?	Y/N/___	Duplicate Sample RPD ≤ 25%?	NA/___

**Detail problems, corrective actions and/or other pertinent information below:**

*OK*

(Review 1)Analyst: Alpha Date: 3/6/13

(Review 2)Reviewer: MMW Date: 3/7

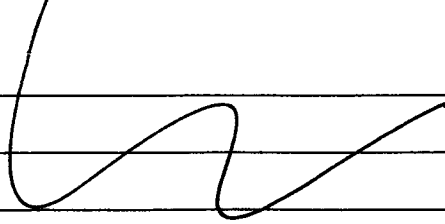
Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.:GC=CN10921030, MS=P764

Date: 3/5/13 Analysis: Dioxins Analyst: ju  
GC Program: 8090C Column No: 27819 Column Type: VF2-Dioxin2  
Inj Vol: 1ul Instrument Tune (IPR): diox/B0301-1-5 Detector Voltage: 350  
Resolution Check Files: 11-53, 21-24, 03-46 Curve Date: 2/11/13

IS/SS	Ical/Ccal	LCS/ICV
<u>27908</u>	<u>27204</u> <u>19172</u>	

1	05-Mar-13	12:22:44	13030502	CS3
2	05-Mar-13	13:14:54	13030503	ISC01
3	05-Mar-13	14:15:44	13030504	WF26MBS
4	05-Mar-13	15:06:35	13030505	WF26OPR
5	05-Mar-13	15:59:22	13030506	WF26A
6	05-Mar-13	16:52:21	13030507	WF26B
7	05-Mar-13	17:45:07	13030508	WF26C
8	05-Mar-13	18:37:58	13030509	WF26D
9	05-Mar-13	19:30:46	13030510	WF26E
10	05-Mar-13	20:23:38	13030511	CS3
11	05-Mar-13	21:24:39	13030512	WF26F
12	05-Mar-13	22:20:48	13030513	WF26G
13	05-Mar-13	23:13:27	13030514	WF26H
14	06-Mar-13	00:06:18	13030515	WF26I
15	06-Mar-13	00:59:06	13030516	WF26J
16	06-Mar-13	01:52:12	13030517	WF26K
17	06-Mar-13	02:45:01	13030518	CS3

 ju 3/6/13

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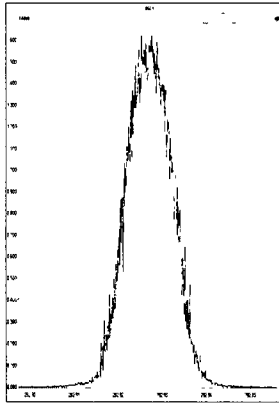
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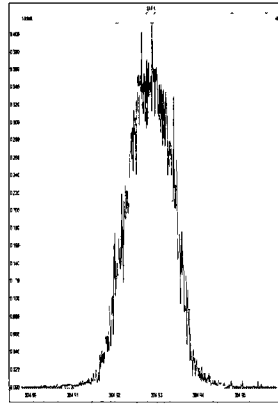
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Every line must contain information or be lined out. Make all entries legible.  
Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

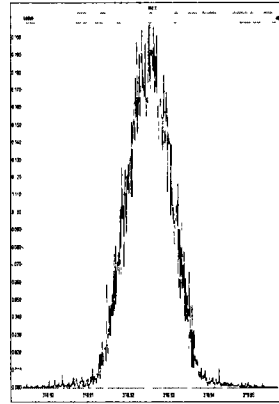
M 292.9824 R 13370



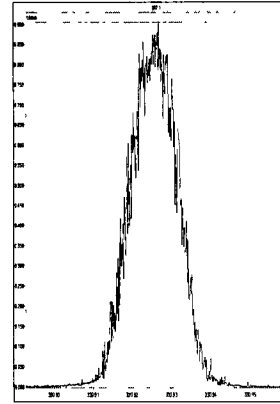
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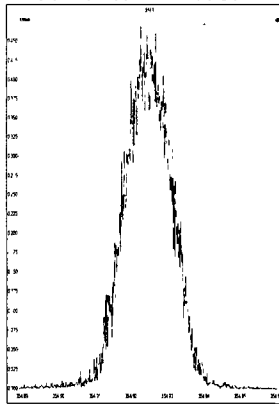
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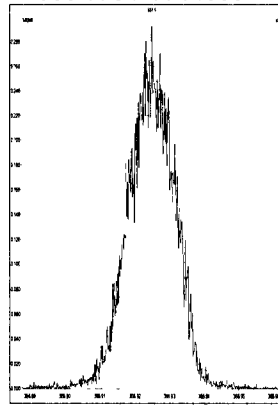
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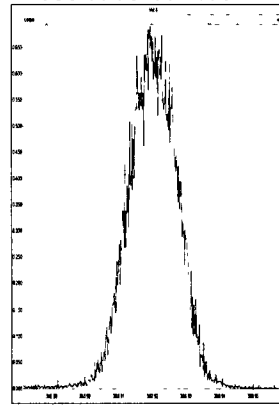
M 354.9792 R 12987



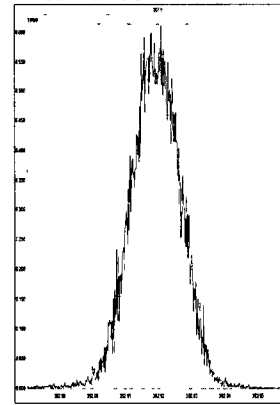
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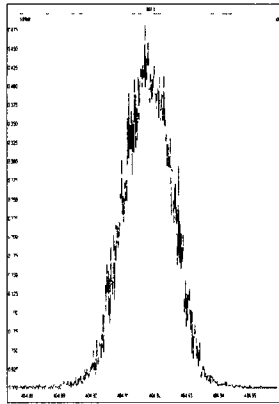
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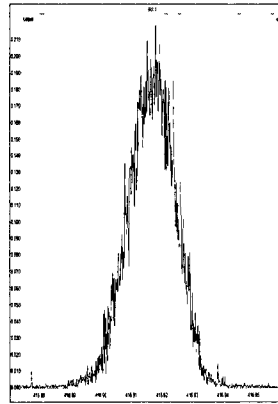
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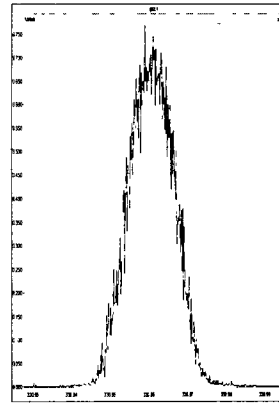
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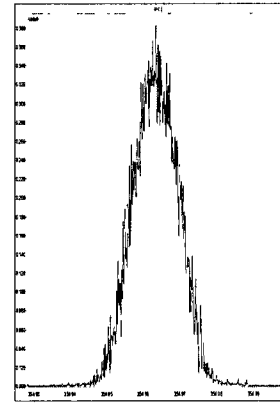
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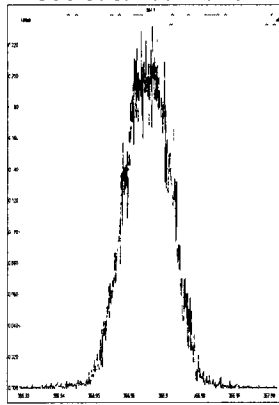
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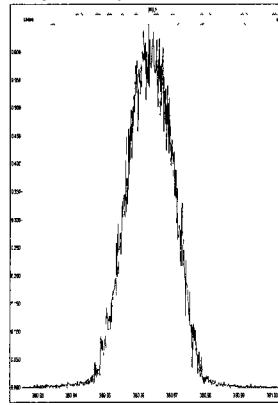
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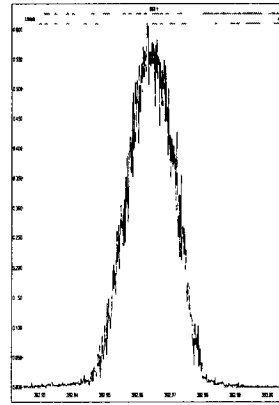
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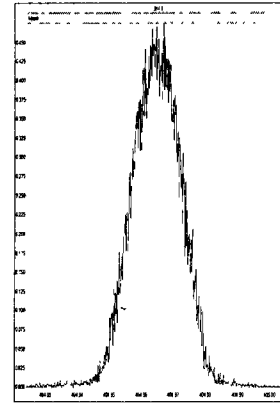
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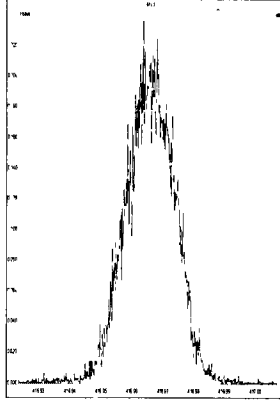


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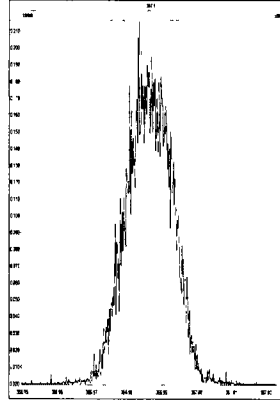


Printed: Tuesday, March 05, 2013 11:53:57 Pacific Standard Time

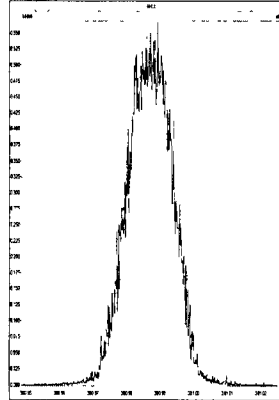
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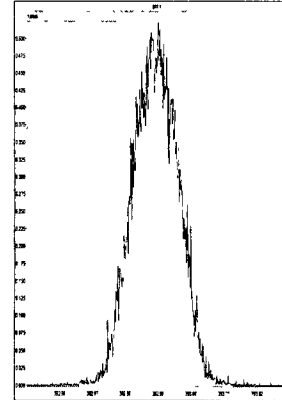
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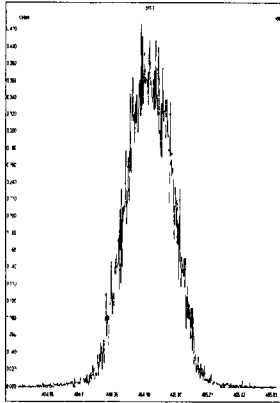
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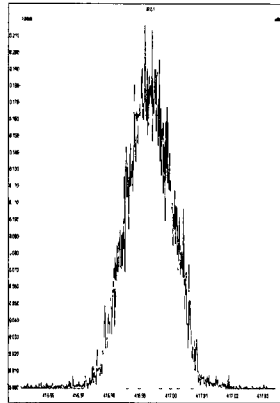
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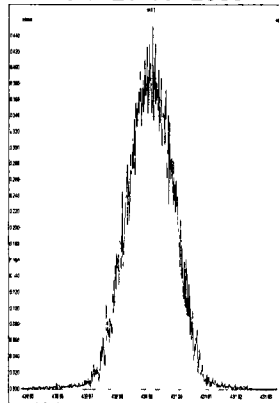
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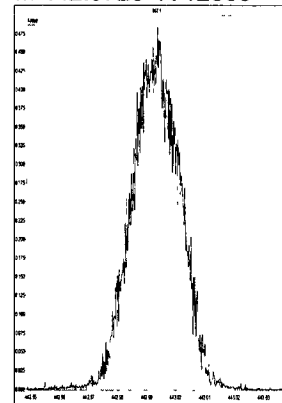
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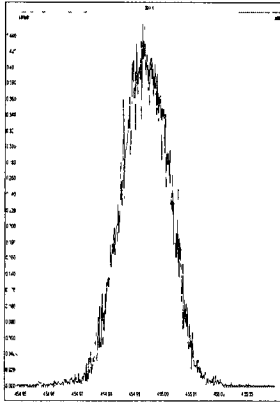
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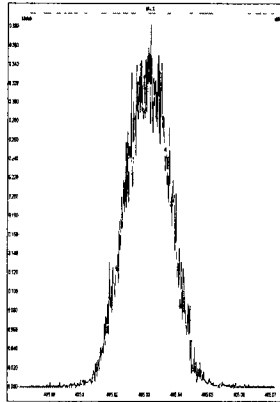
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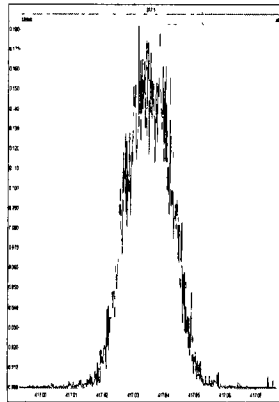
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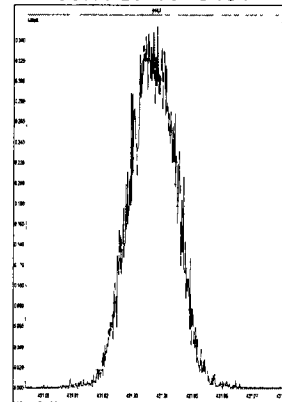
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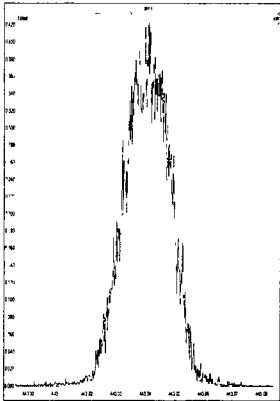
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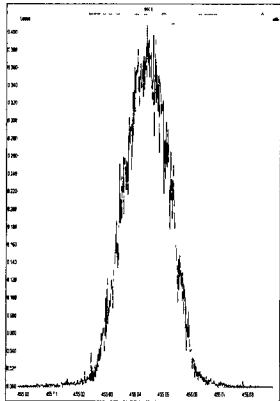
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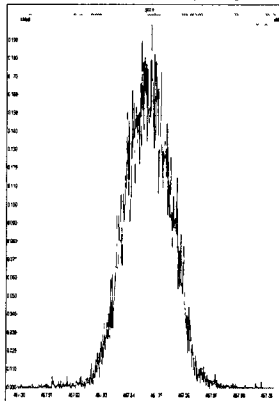
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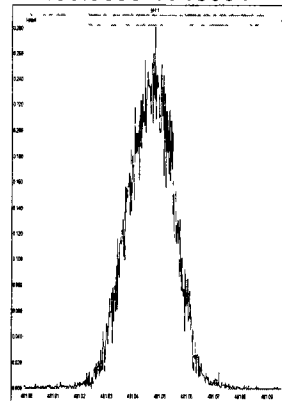
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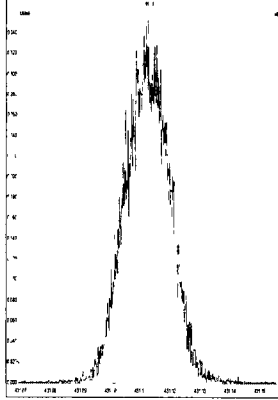
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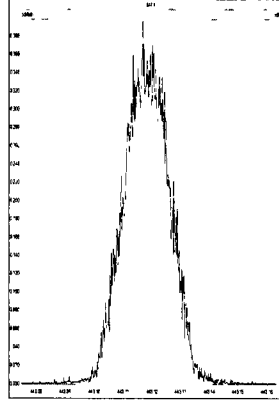
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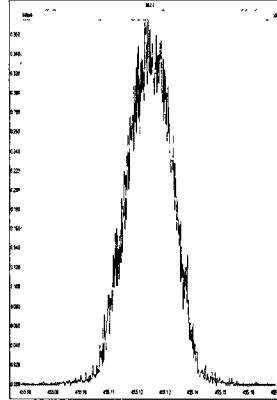
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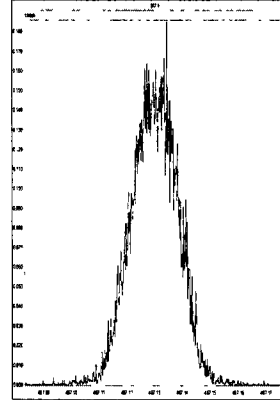
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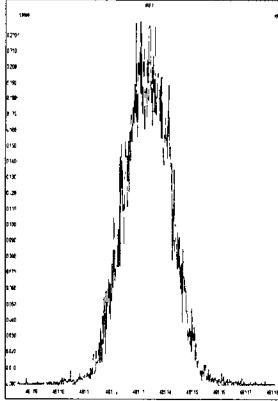
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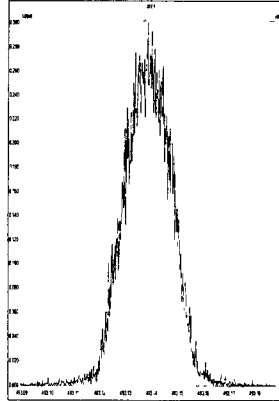
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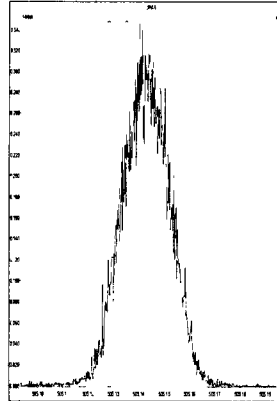
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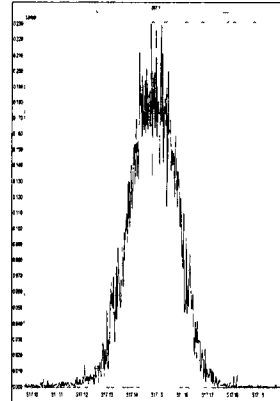
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M 504.9696 R 12863



M 516.9697 R 13021



13030503

100

%

0

25.00 25.50 26.00 26.50 27.00 27.50

1: Voltage SIR 15 Channels EI+

319.8965

8.27e5

27.06

26.93

2378-TCDD

*Valley*

*= 15/80*

*= 18.75%*

*80*

*15*

13030503

100

%

0

25.00 25.50 26.00 26.50 27.00 27.50

1: Voltage SIR 15 Channels EI+

303.9016

9.41e5

26.11

26.29

26.41

2378-TCDF

*99*

*Valley*

*= 15/99*

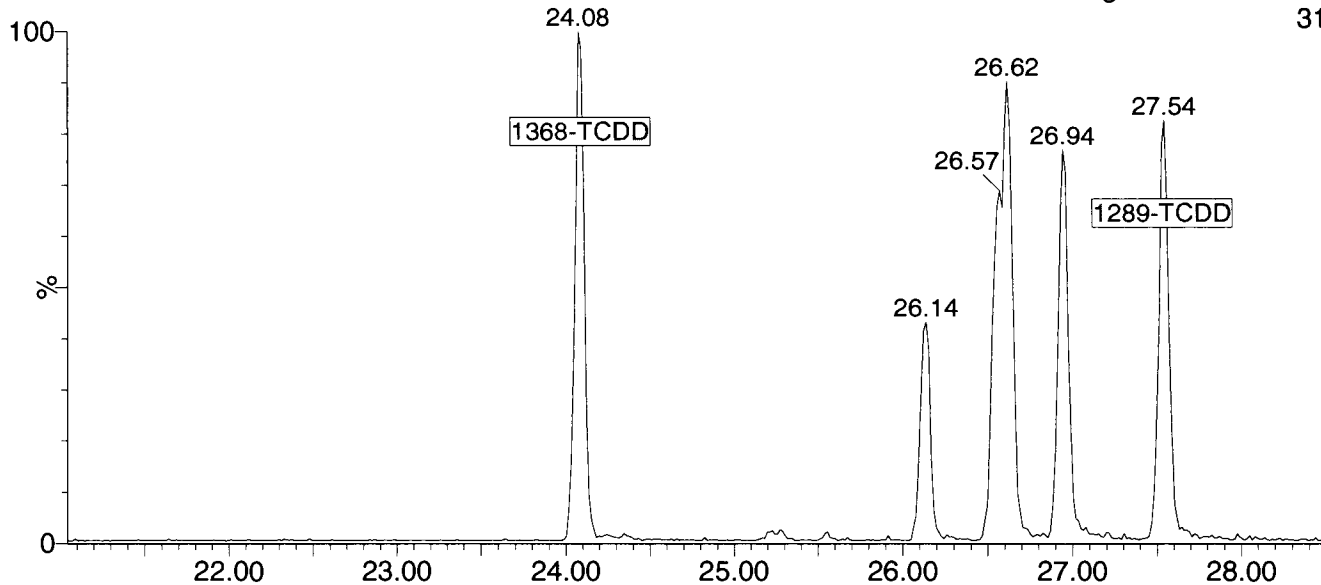
*= 15.2%*

*15*

Time

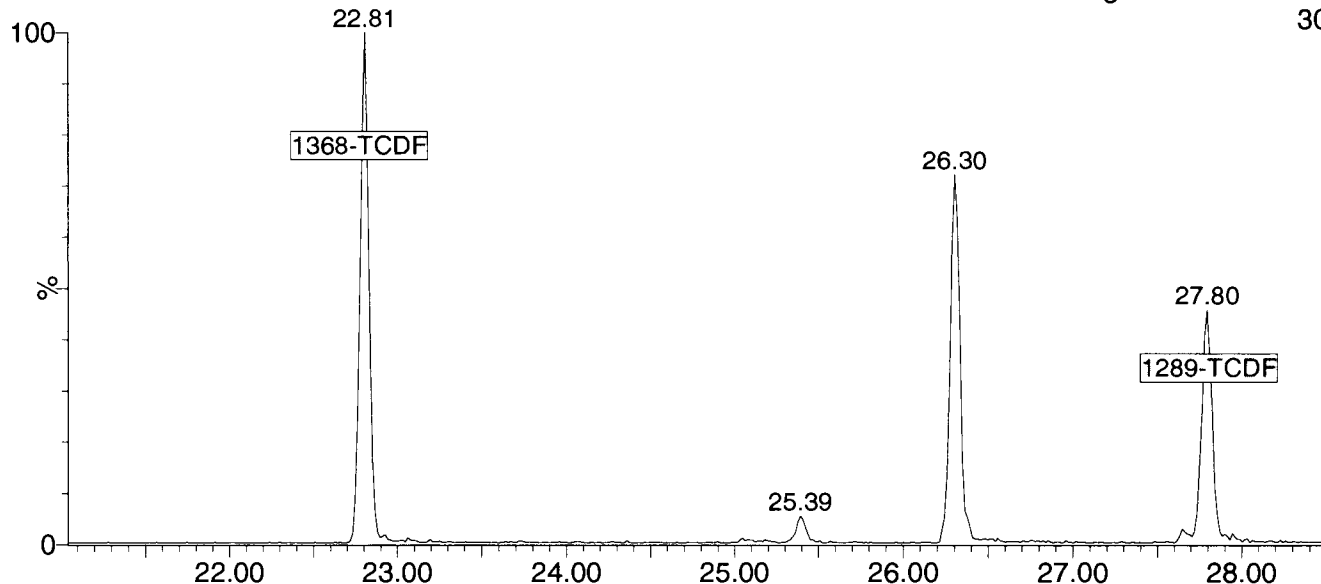
13030502

1: Voltage SIR 15 Channels EI+  
319.8965  
9.96e5



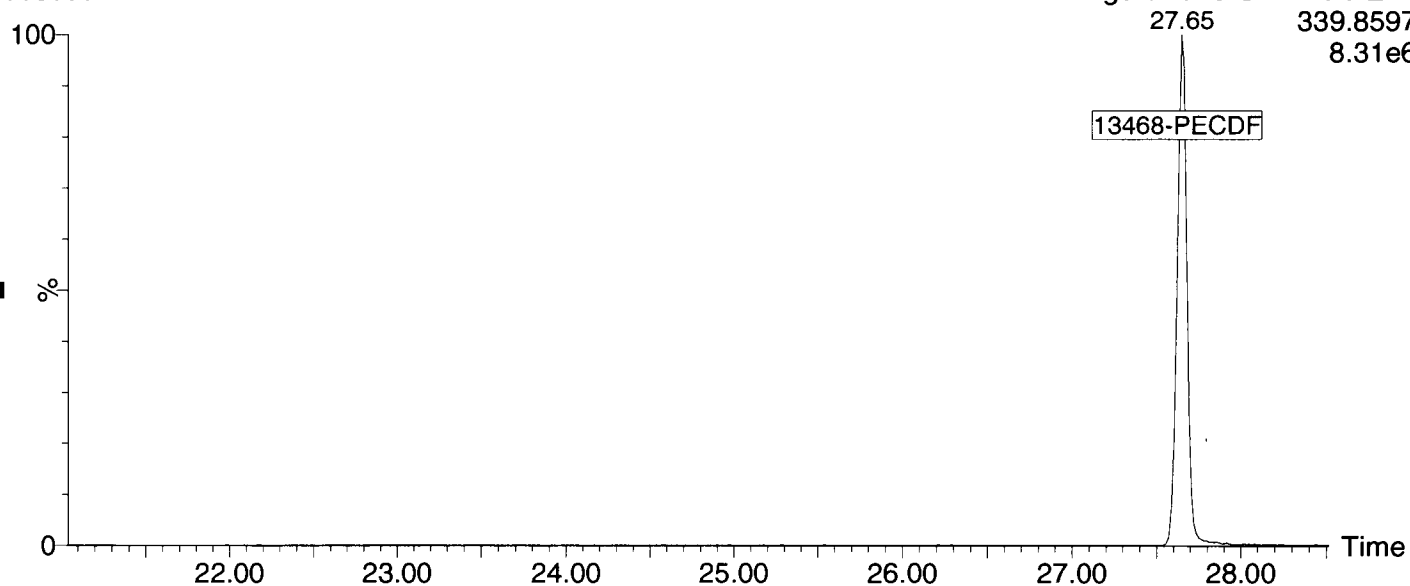
13030502

1: Voltage SIR 15 Channels EI+  
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1.40e6



13030502

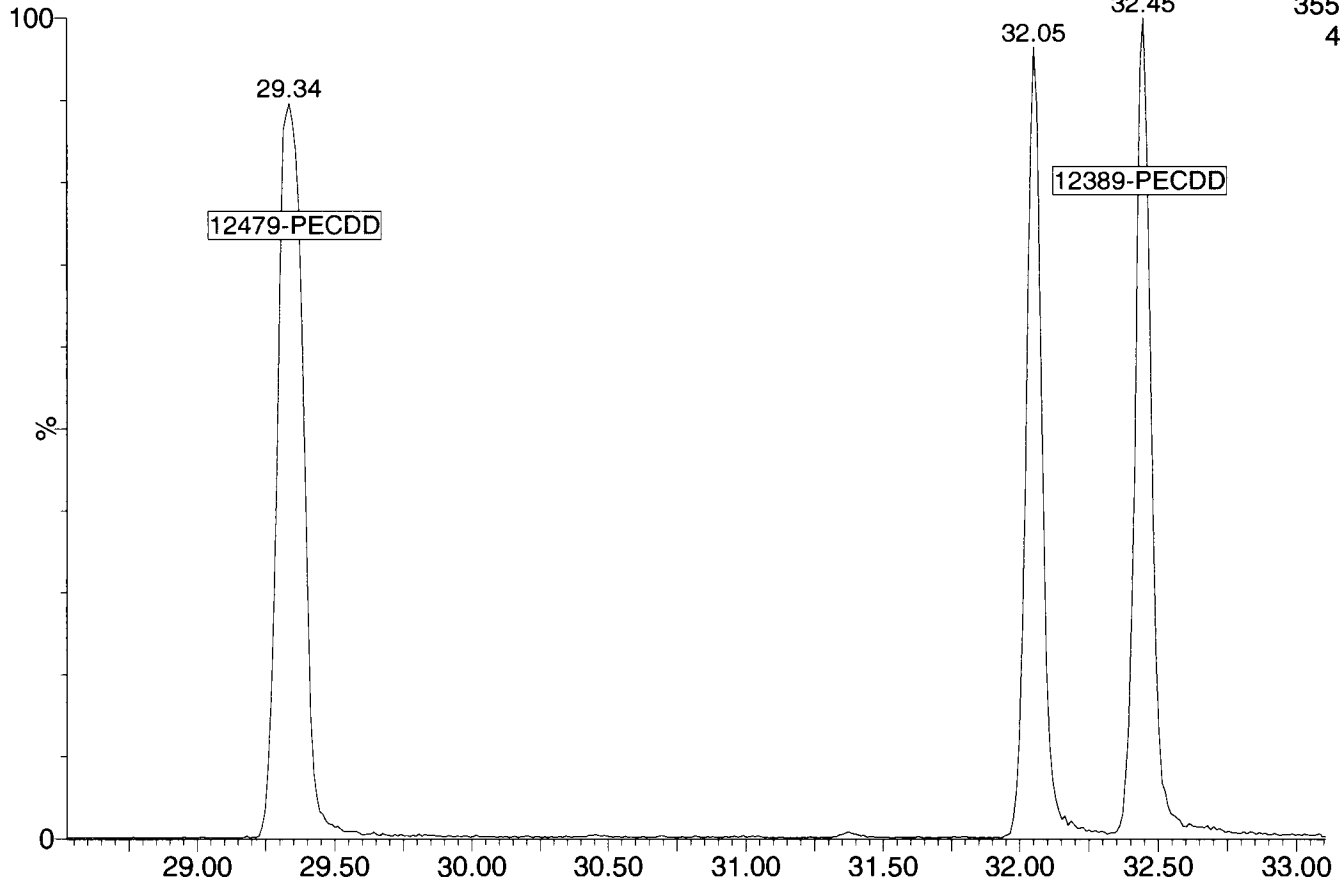
1: Voltage SIR 15 Channels EI+  
339.8597  
8.31e6





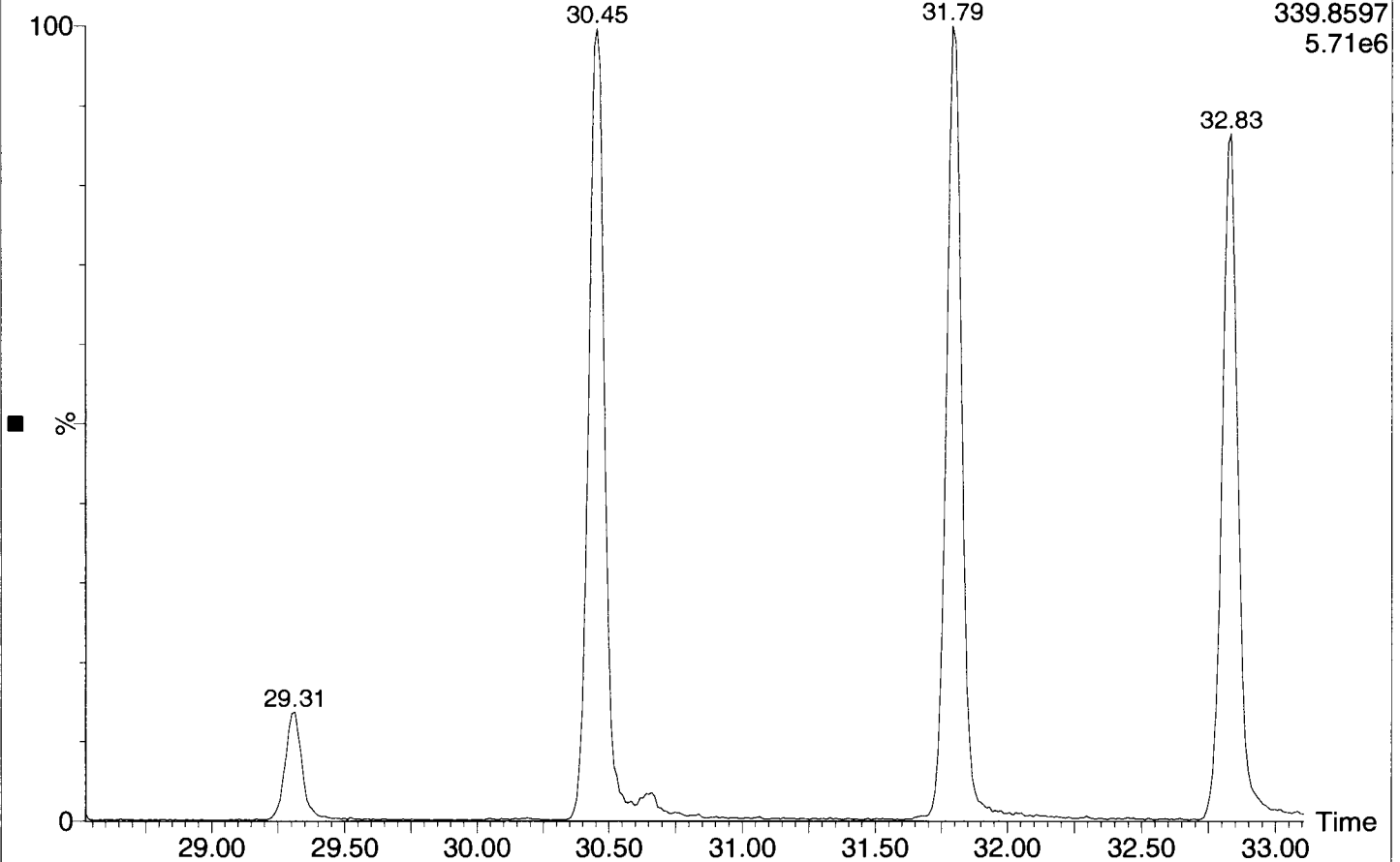
13030502

2: Voltage SIR 11 Channels EI+  
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4.29e6



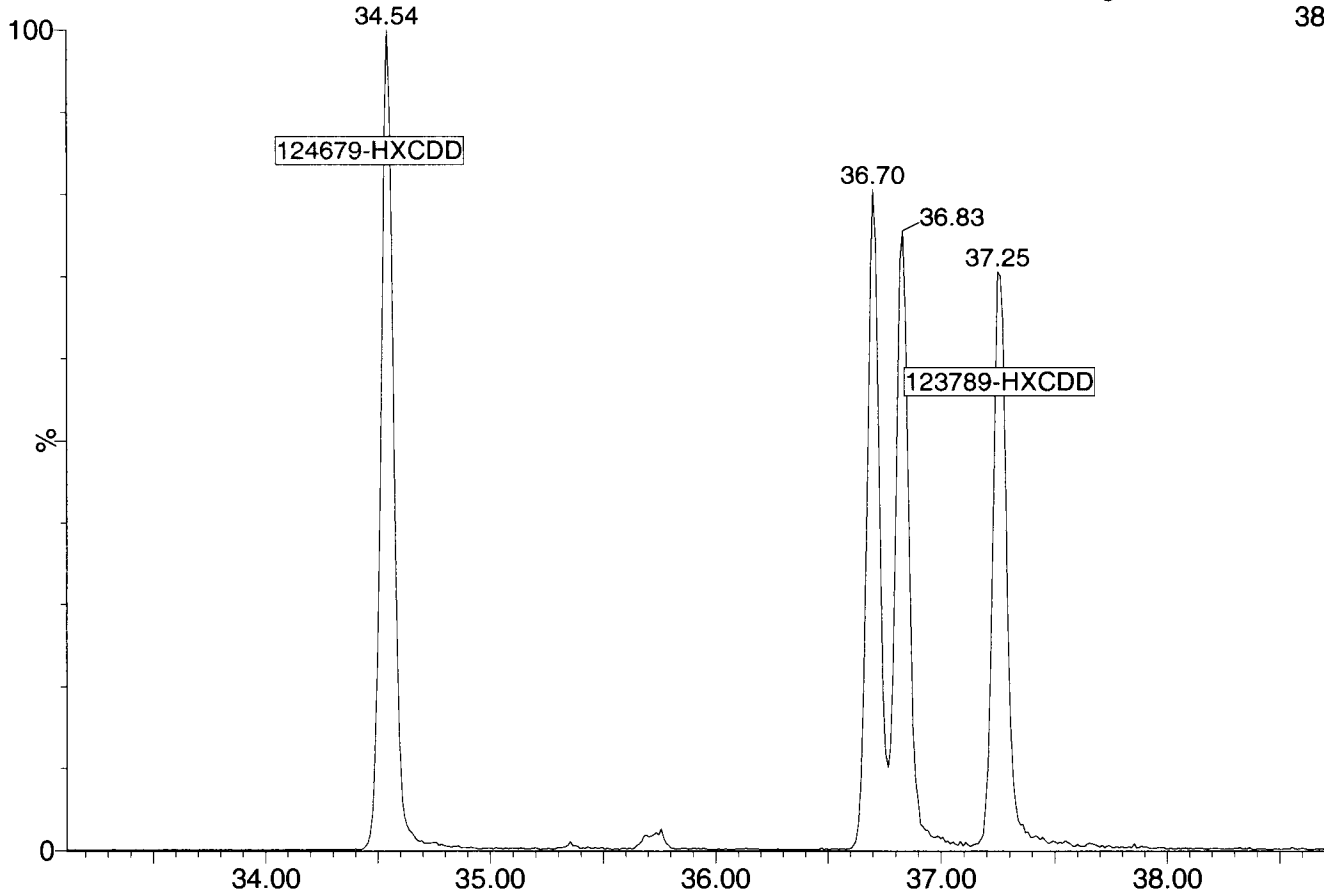
13030502

2: Voltage SIR 11 Channels EI+  
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5.71e6



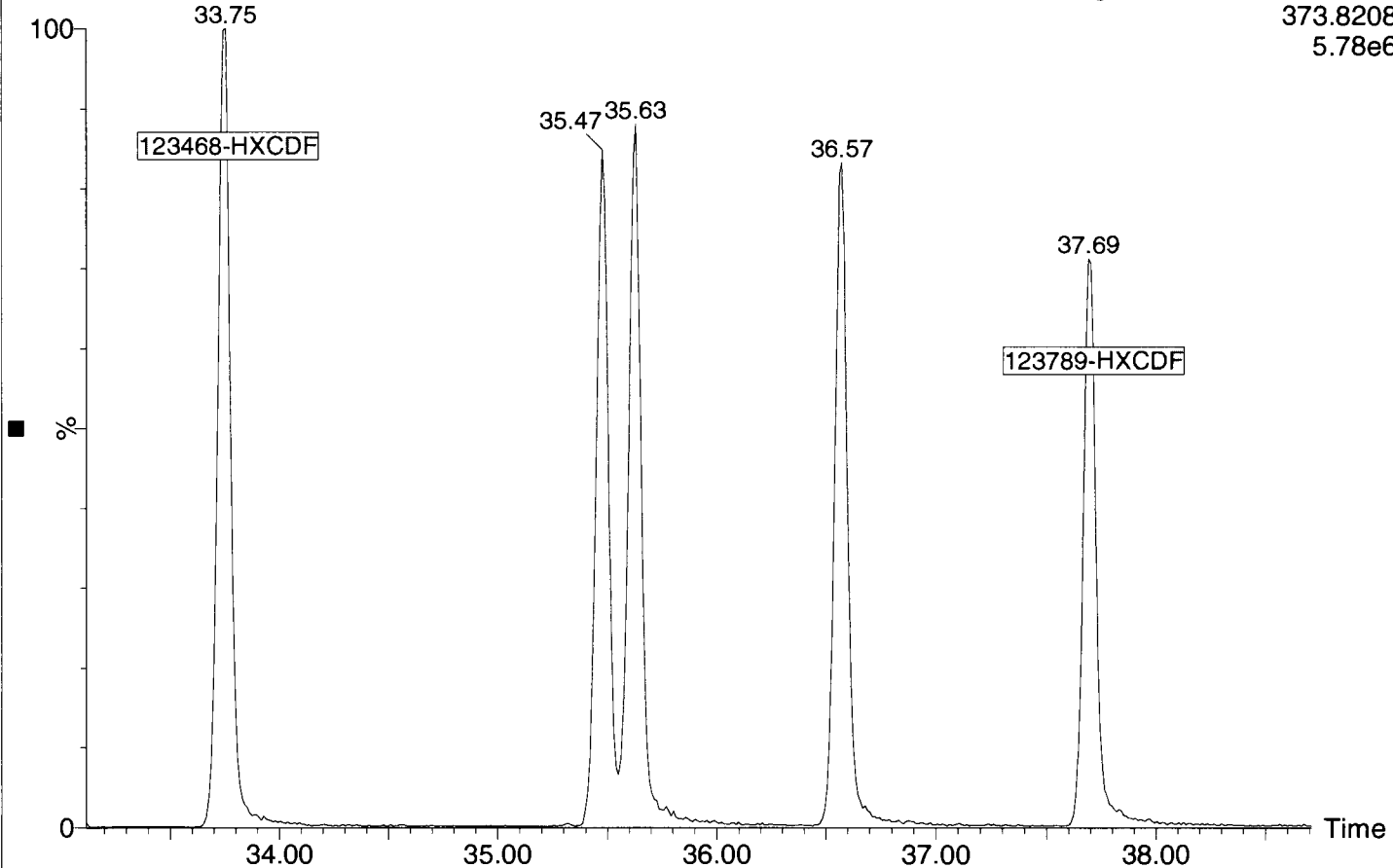
13030502

3: Voltage SIR 11 Channels EI+  
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4.84e6



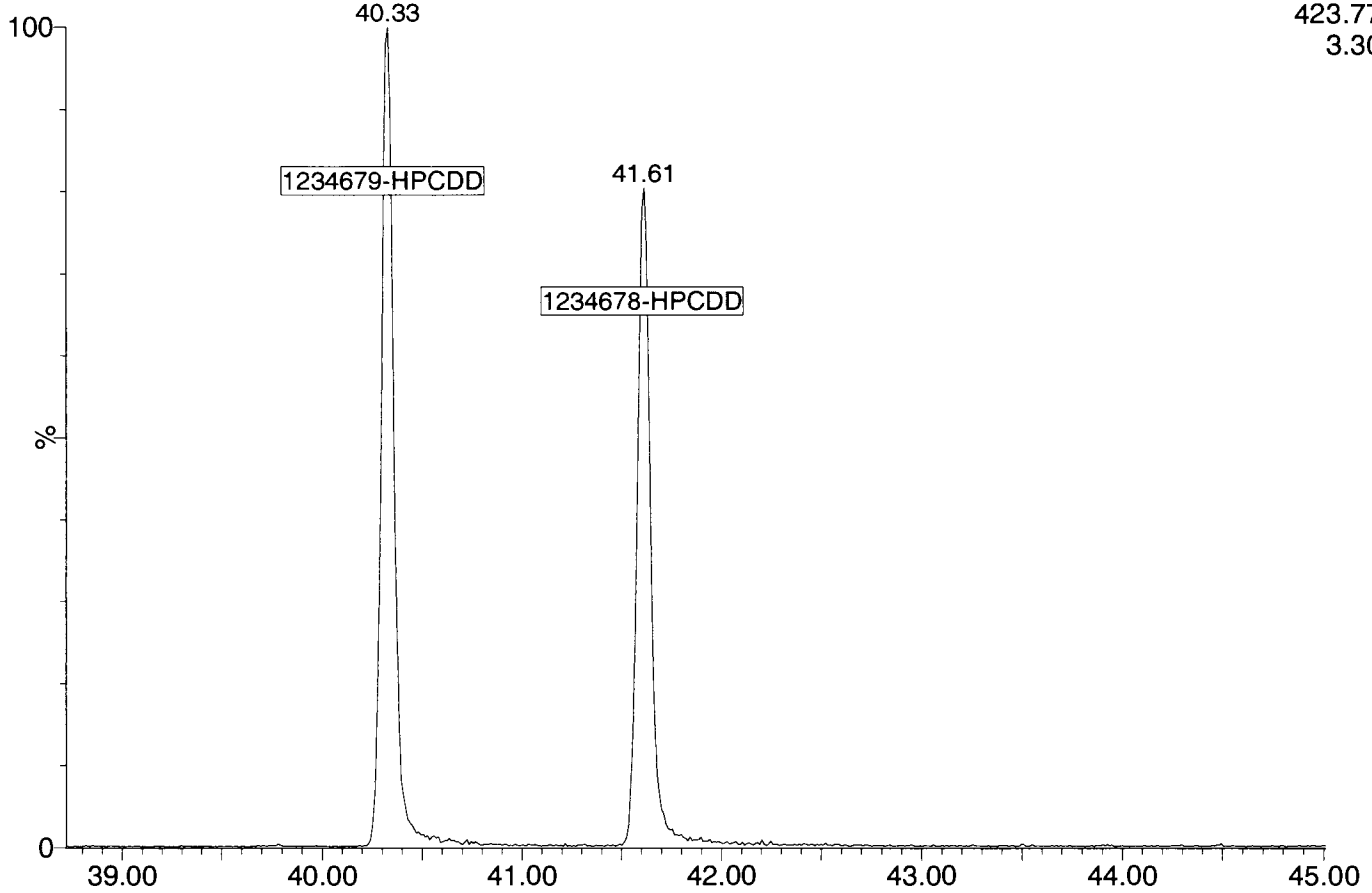
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3: Voltage SIR 11 Channels EI+  
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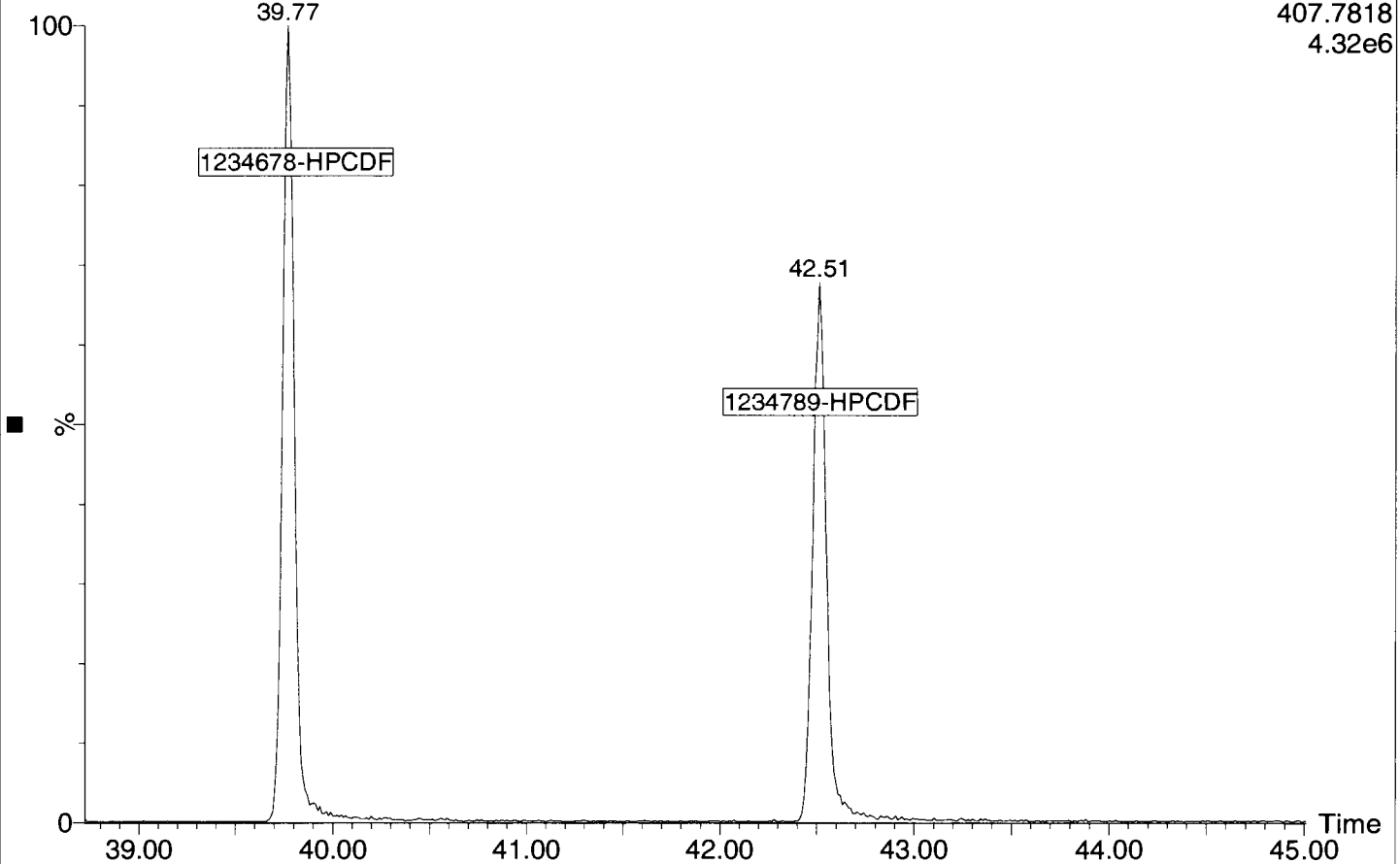
13030502

4: Voltage SIR 11 Channels EI+  
423.7766  
3.30e6



13030502

4: Voltage SIR 11 Channels EI+  
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4.32e6



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk

1	2378-TCDF	26.302	1.001	6.59e4	8.91e4	0.921	0.739	0.770	527.0	NO	9.412	9.412
2	12378-PeCDF	30.453	1.001	4.05e5	2.68e5	0.912	1.508	1.550	1208.2	NO	49.154	49.154
3	23478-PeCDF	31.791	1.000	3.81e5	2.52e5	0.943	1.510	1.550	1173.0	NO	48.532	48.532
4	123478-HxCDF	35.473	1.001	3.20e5	2.66e5	1.101	1.207	1.240	1250.4	NO	49.771	49.771
5	234678-HxCDF	36.569	1.001	3.21e5	2.60e5	1.073	1.232	1.240	1239.1	NO	49.919	49.919
6	123678-HxCDF	35.627	1.001	3.39e5	2.89e5	1.056	1.171	1.240	1279.1	NO	50.512	50.512
7	123789-HxCDF	37.688	1.000	2.74e5	2.23e5	1.017	1.227	1.240	1063.2	NO	49.899	49.899
8	1234678-HpCDF	39.770	1.000	2.96e5	2.99e5	1.238	0.991	1.050	1006.1	NO	51.006	51.006
9	1234789-HpCDF	42.511	1.001	2.28e5	2.35e5	1.224	0.971	1.050	673.9	NO	51.025	51.025
10	OCDF	47.899	1.006	3.83e5	4.39e5	1.162	0.872	0.890	1629.7	NO	98.178	98.178
11	2378-TCDD	26.944	1.001	5.13e4	6.82e4	1.106	0.751	0.770	533.1	NO	9.319	9.319
12	12378-PeCDD	32.054	1.001	2.72e5	1.81e5	1.001	1.503	1.550	1246.2	NO	49.091	49.091
13	123478-HxCDD	36.701	1.000	2.47e5	1.96e5	0.978	1.259	1.240	829.1	NO	51.262	51.262
14	123678-HxCDD	36.833	1.001	2.48e5	1.91e5	0.929	1.299	1.240	779.0	NO	49.203	49.203
15	123789-HxCDD	37.260	1.012	2.35e5	1.92e5	0.904	1.221	1.240	737.6	NO	51.178	51.178
16	1234678-HpCDD	41.612	1.001	2.03e5	1.88e5	1.029	1.078	1.050	822.9	NO	47.063	47.063
17	OCDD	47.621	1.001	3.41e5	3.81e5	1.011	0.895	0.890	1293.9	NO	99.025	99.025
18	13C-2378-TCDF	26.287	1.007	7.82e5	1.01e6	1.522	0.777	0.770	3065.8	NO	94.639	94.639
19	13C-12378-PeCDF	30.431	1.166	9.11e5	5.90e5	1.185	1.546	1.550	2647.4	NO	102.074	102.074
20	13C-23478-PeCDF	31.779	1.217	8.47e5	5.36e5	1.136	1.579	1.550	2567.7	NO	98.129	98.129
21	13C-123478-HxCDF	35.451	0.952	3.63e5	7.07e5	1.284	0.513	0.510	1445.9	NO	94.409	94.409
22	13C-123678-HxCDF	35.605	0.956	3.86e5	7.91e5	1.383	0.488	0.510	1528.2	NO	96.513	96.513
23	13C-234678-HxCDF	36.548	0.981	3.70e5	7.14e5	1.283	0.518	0.510	1469.2	NO	95.810	95.810
24	13C-123789-HxCDF	37.676	1.012	3.33e5	6.45e5	1.099	0.516	0.510	1357.2	NO	100.915	100.915
25	13C-1234678-HpCDF	39.759	1.068	2.88e5	6.54e5	1.070	0.440	0.440	1369.5	NO	99.884	99.884
26	13C-1234789-HpCDF	42.488	1.141	2.31e5	5.11e5	0.774	0.451	0.440	935.2	NO	108.705	108.705
27	13C-1234-TCDD	26.108	0.000	5.43e5	6.98e5	1.000	0.778	0.770	2077.6	NO	100.000	100.000
28	13C-2378-TCDD	26.930	1.031	5.01e5	6.58e5	0.943	0.762	0.770	1888.8	NO	99.107	99.107
29	13C-12378-PeCDD	32.032	1.227	5.68e5	3.54e5	0.715	1.602	1.550	4603.3	NO	103.909	103.909
30	13C-123478-HxCDD	36.690	0.985	4.95e5	3.88e5	1.032	1.277	1.240	3180.0	NO	96.989	96.989
31	13C-123678-HxCDD	36.811	0.989	5.37e5	4.24e5	1.076	1.268	1.240	3335.9	NO	101.230	101.230
32	13C-1234678-HpCDD	41.590	1.117	4.15e5	3.93e5	0.838	1.055	1.050	1876.3	NO	109.352	109.352
33	13C-OCDD	47.594	1.278	6.88e5	7.54e5	0.675	0.913	0.890	2203.0	NO	241.999	241.999

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk

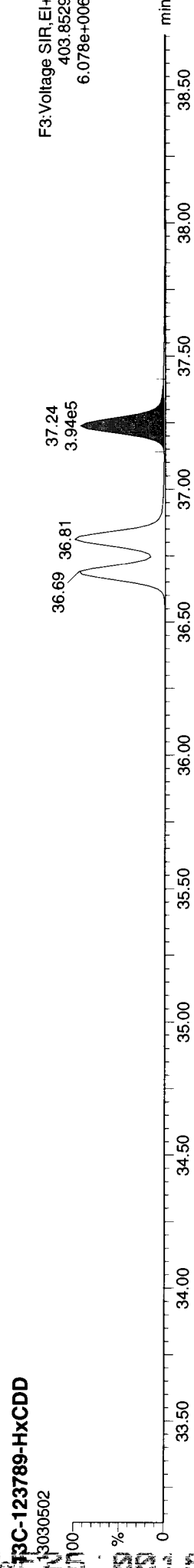
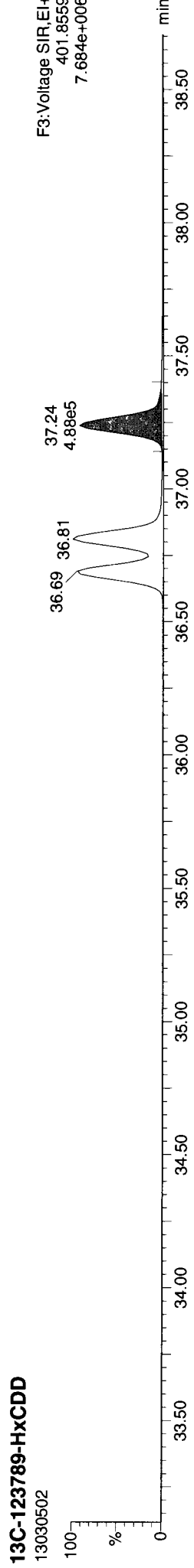
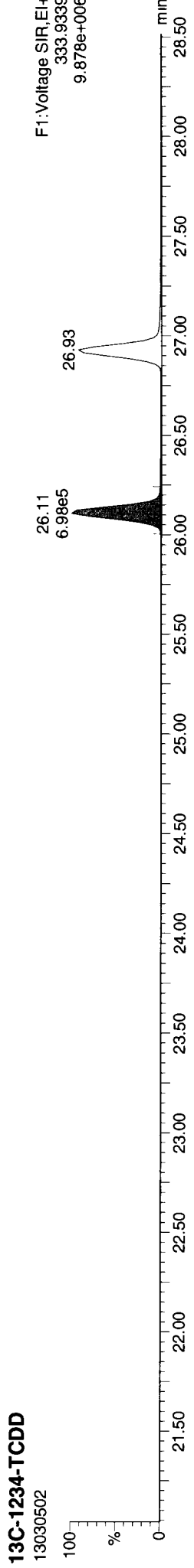
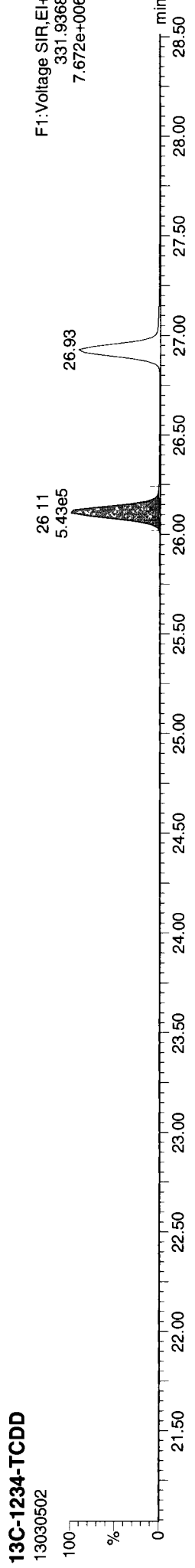
Peak #	Name	Area	Height	Retention	Abundance	Integration	Ratio	Peak #	Name	Area	Height	Retention	Abundance	Integration	Ratio
34	13C-123789-HxCDD	37.238	0.000	4.88e5	3.94e5	1.000	1.236	1.240	3070.2	NO					
35	Total-tetrafurans			2.03e5		0.921									100.000
36	Total-penta1			5.55e5											29.576
37	Total-pentafurans			1.19e6		0.927									69.249
38	Total-hexafurans			1.64e6		1.062									148.170
39	Total-heptafurans			5.24e5		1.231									261.589
40	Total-Furans			4.49e6		1.065									102.030
41	Total-tetradiioxins			3.06e5		1.106									708.806
42	Total-pentadiioxins			9.71e5		1.001									53.893
43	Total-hexadiioxins			1.06e6		0.937									174.139
44	Total-heptadiioxins			4.46e5		1.029									221.145
45	Total-Dioxins			3.13e6		0.994									104.238
46	Total-TEQ			7.62e6											652.592
47	37CL-2378-TCDD	26.944	1.032	1.23e5		1.051			571.5						1361.398
48	FUNCTION1 PFK			5.21e5											9.459
49	FUNCTION2 PFK			2.29e5											0.000
50	FUNCTION3 PFK			1.44e7											0.000
51	FUNCTION4 PFK			5.64e5											
52	FUNCTION5 PFK			1.37e5											
53	FUNCTION1 HXCDPE			0.00e0											0.000
54	FUNCTION1 HPCDPE			1.36e3											0.000
55	FUNCTION2 HPCDPE			1.85e3											0.000
56	FUNCTION3 OCDPE			1.01e2											0.000
57	FUNCTION4 NCDPE			9.35e1											0.000
58	FUNCTION5 DCDPE			0.00e0											0.000

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

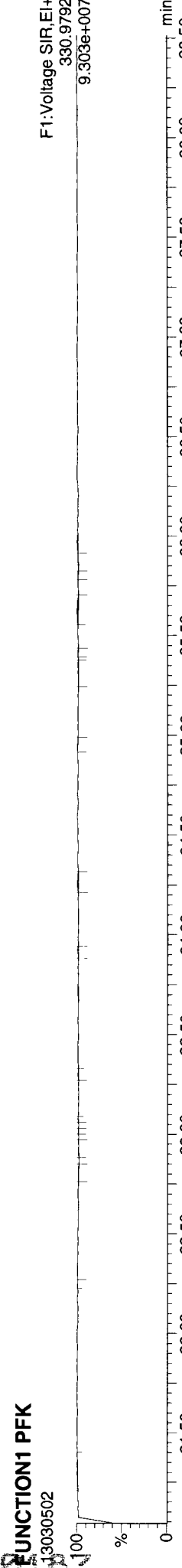
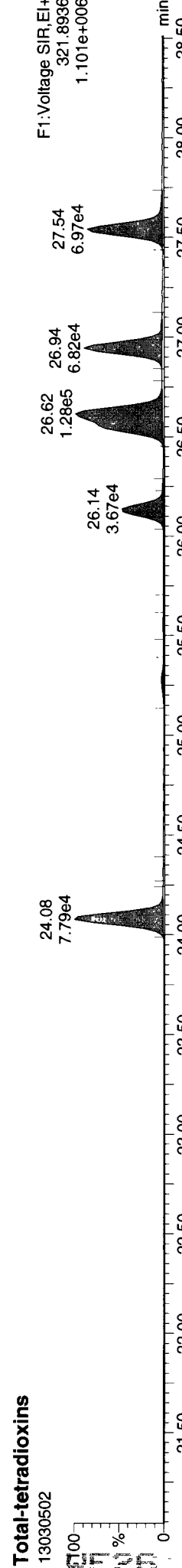
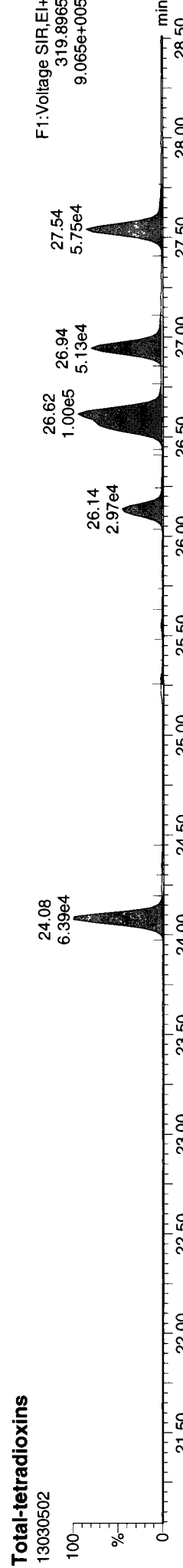
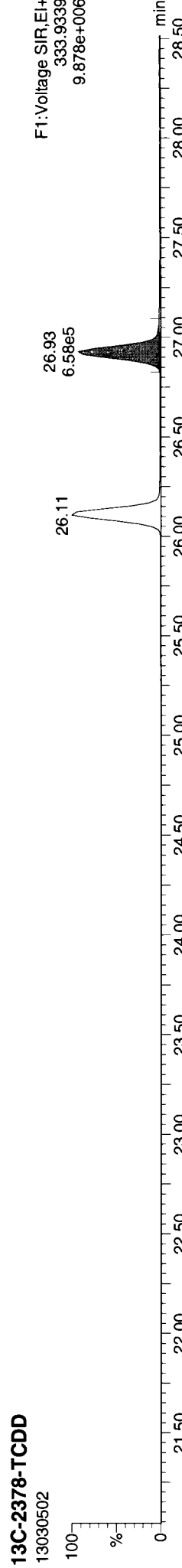
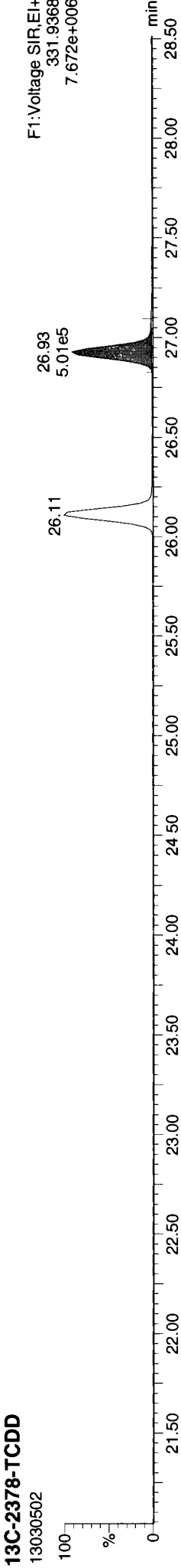
ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

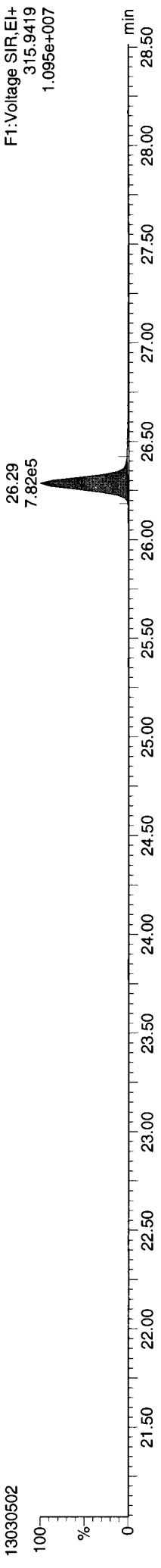
ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk



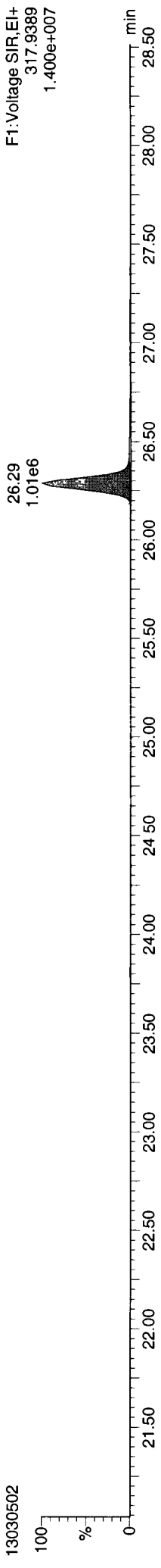
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk

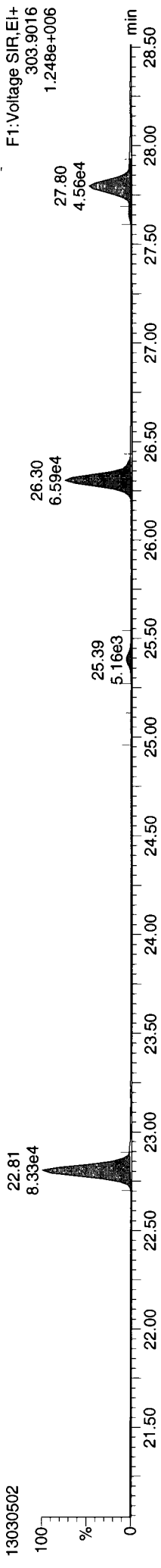
13C-2378-TCDF



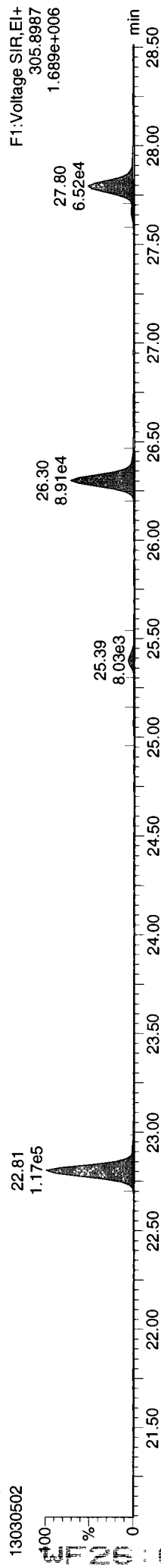
13C-2378-TCDF



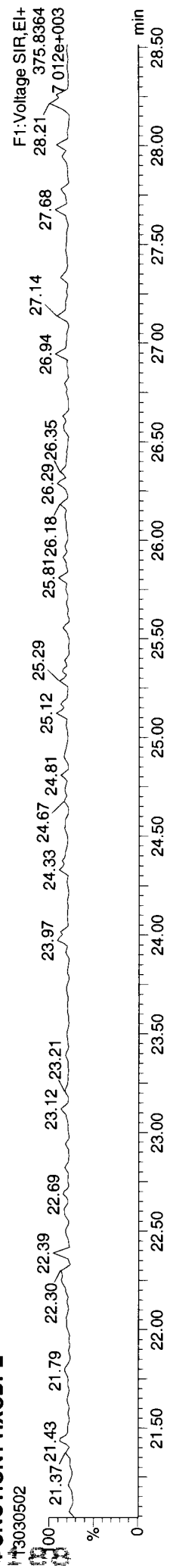
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

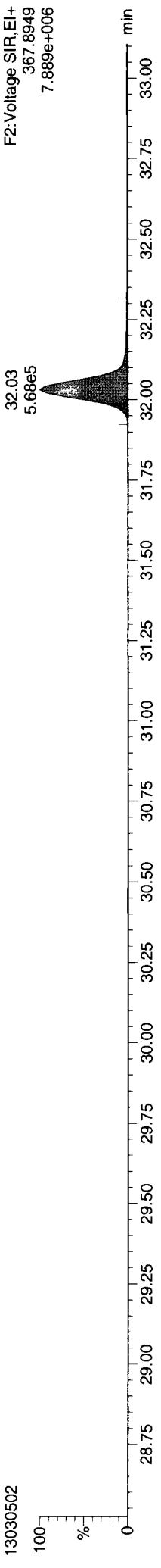




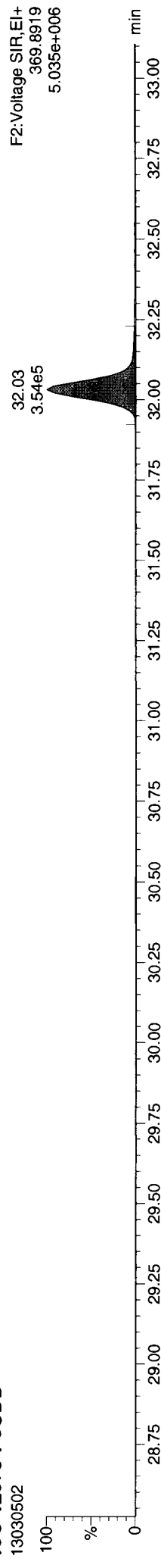
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

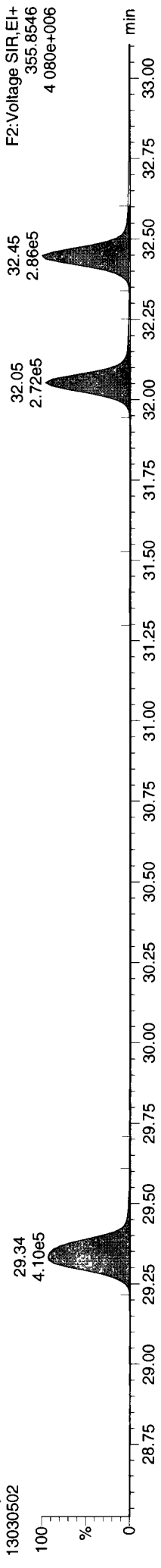
**13C-12378-PeCDD**  
13030502



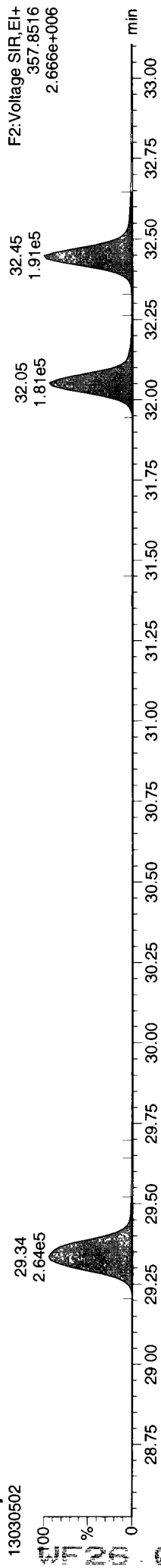
**13C-12378-PeCDD**  
13030502



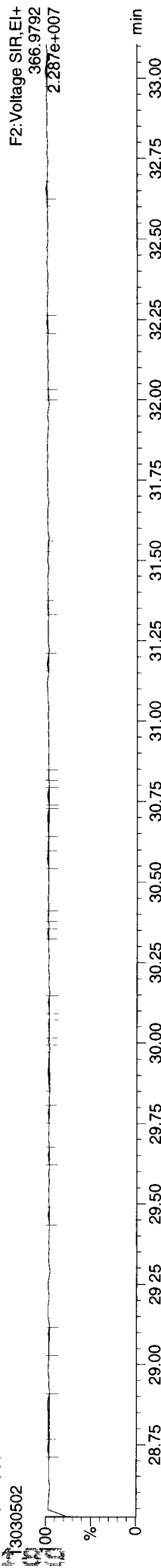
**Total-pentadioxins**  
13030502



**Total-pentadioxins**  
13030502



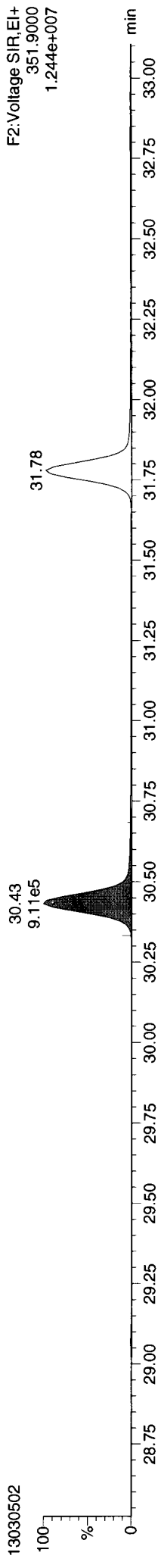
**FUNCTION2 PFK**  
13030502



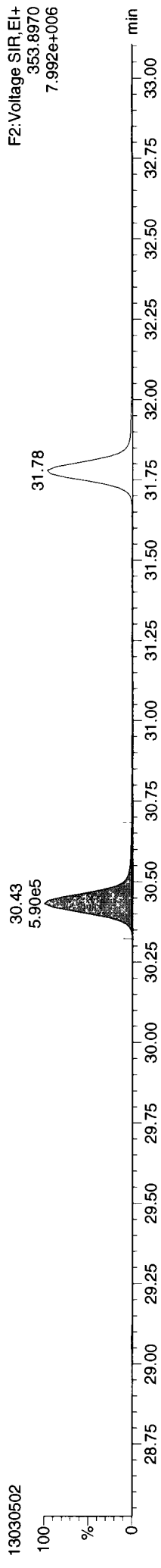
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

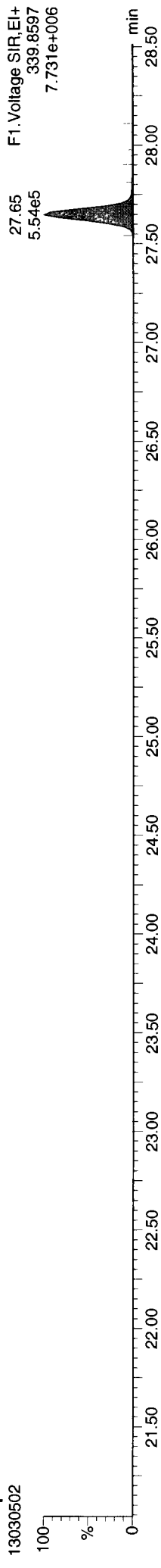
**13C-12378-PeCDF**



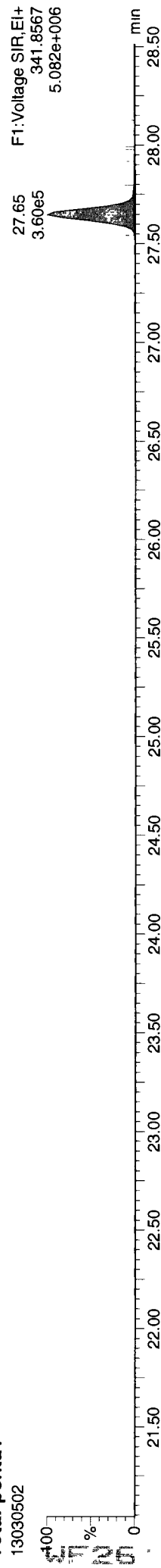
**13C-12378-PeCDF**



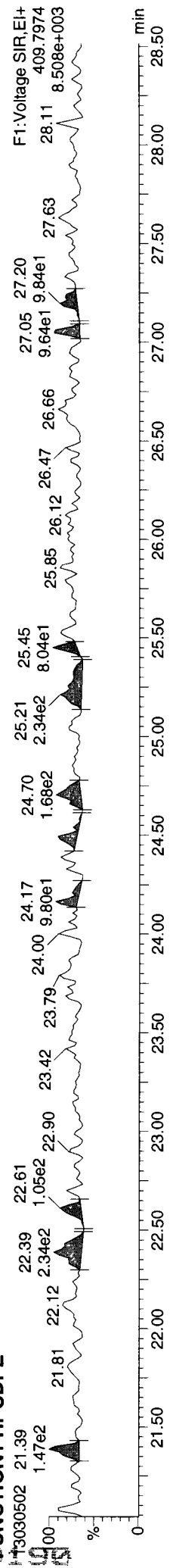
**Total-penta1**



**Total-penta1**



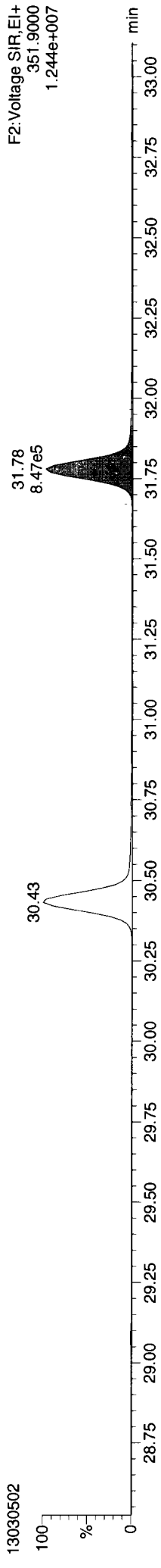
**FUNCTION1 HPCDPE**



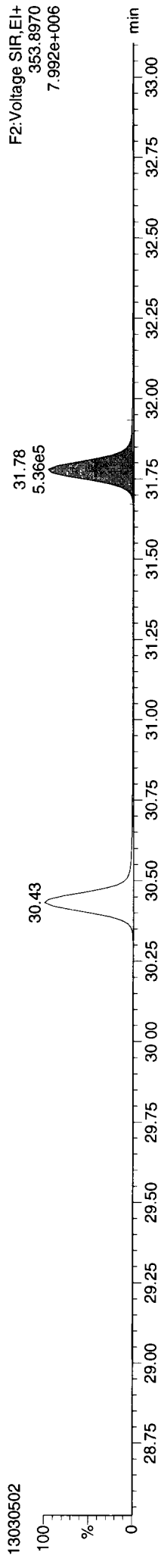
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

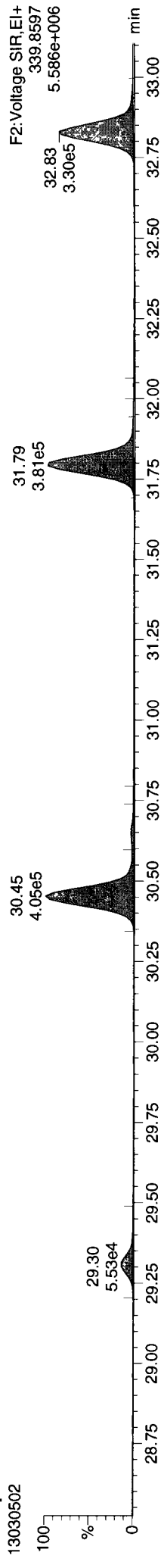
**13C-23478-PeCDF**



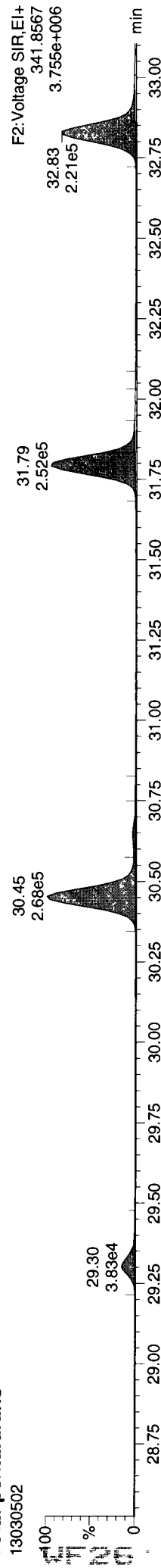
**13C-23478-PeCDF**



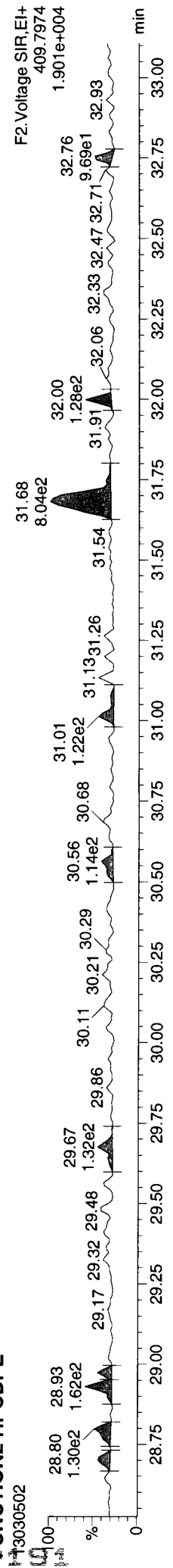
**Total-pentafurans**



**Total-pentafurans**



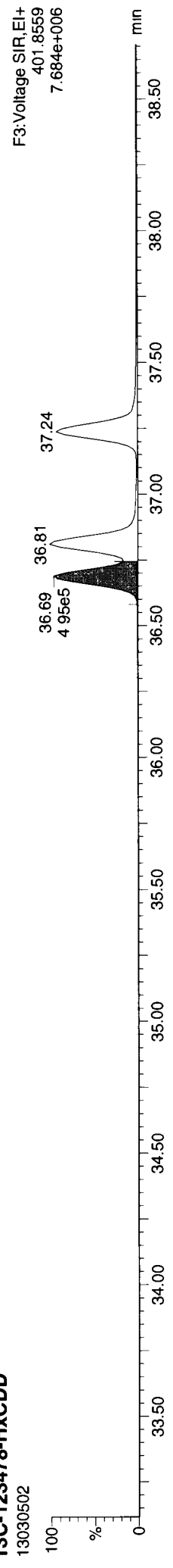
**FUNCTION2 HPCDPE**



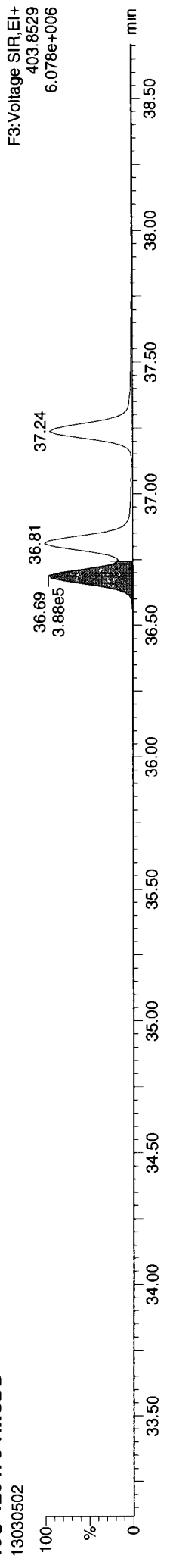
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\13030505OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

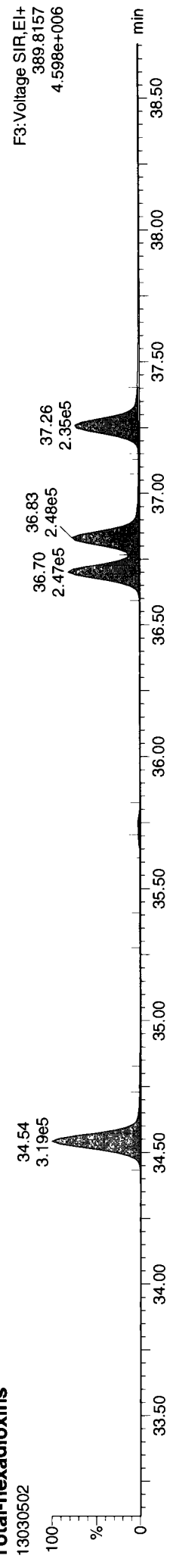
**13C-123478-HxCDD**  
 13030502



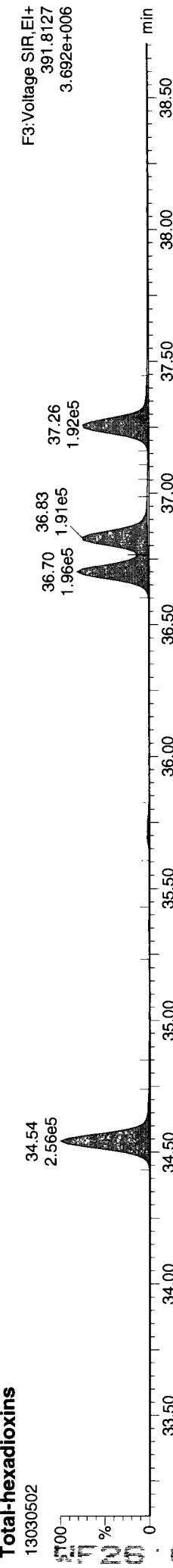
**13C-123478-HxCDD**  
 13030502



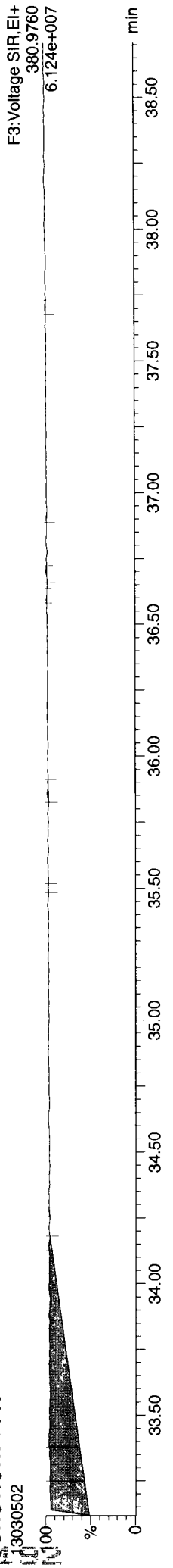
**Total-hexadioxins**  
 13030502



**Total-hexadioxins**  
 13030502



**FUNCTION3 PFK**  
 13030502



Quantify Sample Report MassLynx 4.1 SCN 714

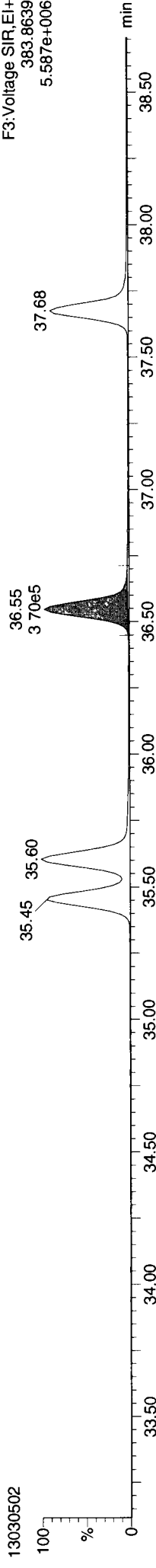
Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld

Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time

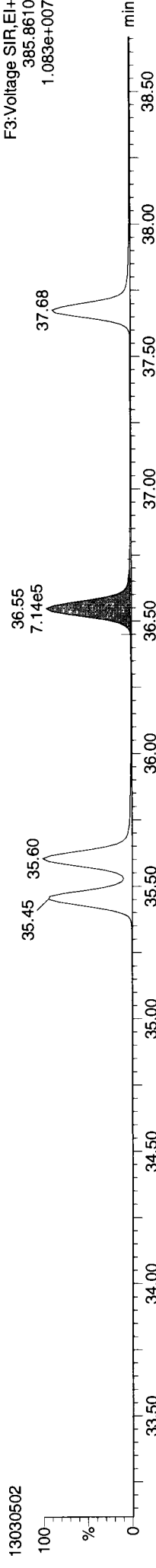
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk

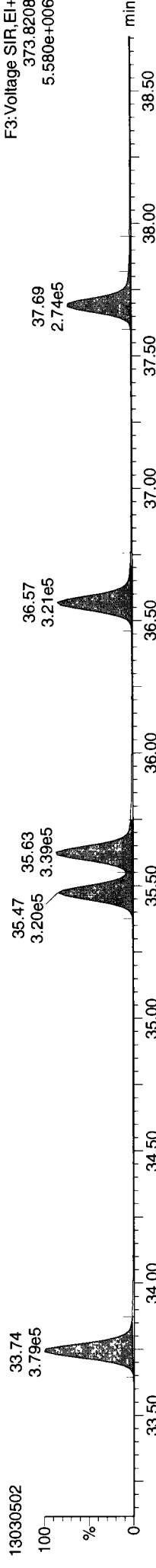
13C-234678-HxCDF



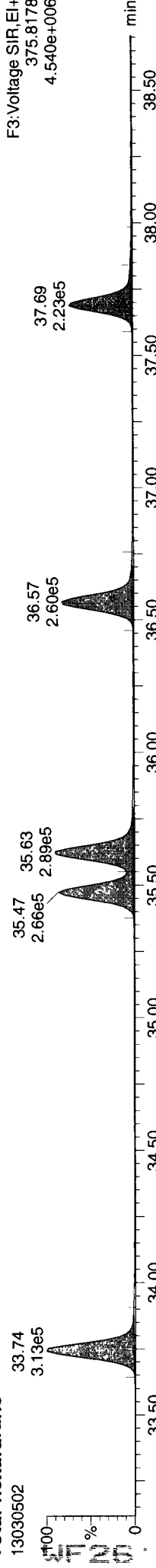
13C-234678-HxCDF



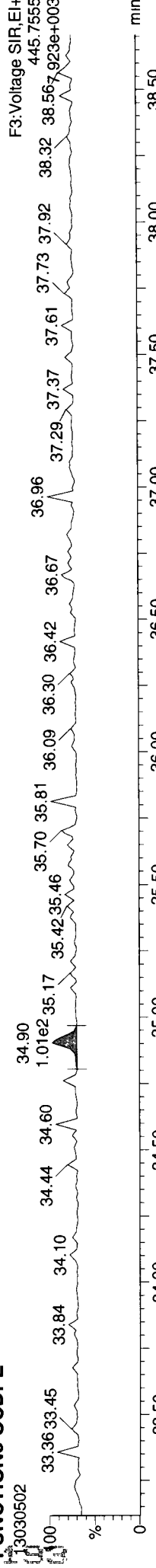
Total-hexafurans



Total-hexafurans



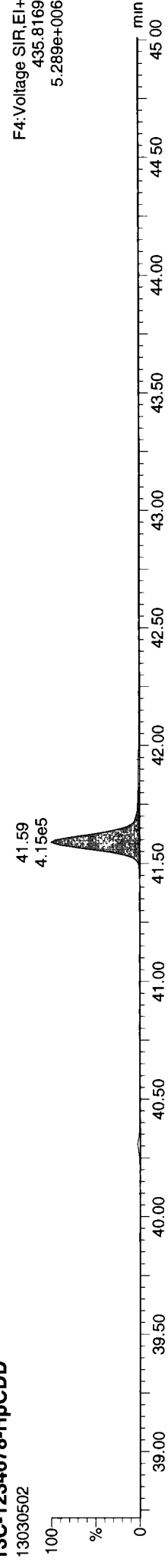
FUNCTION3 OCDFE



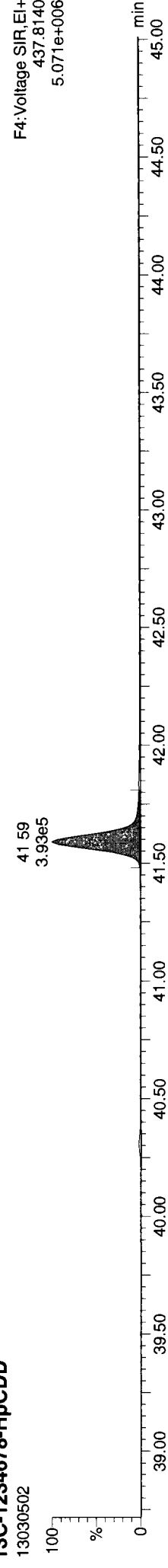
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

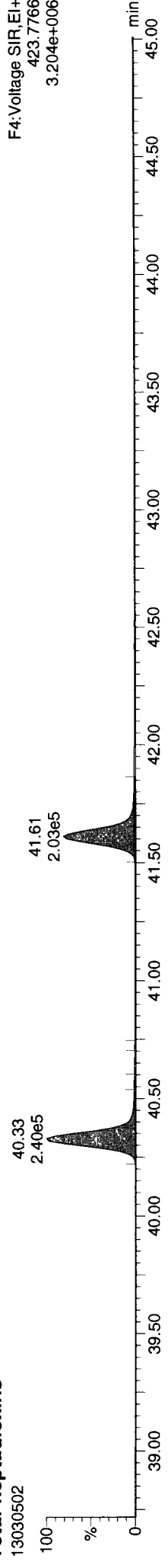
**13C-1234678-HpCDD**  
13030502



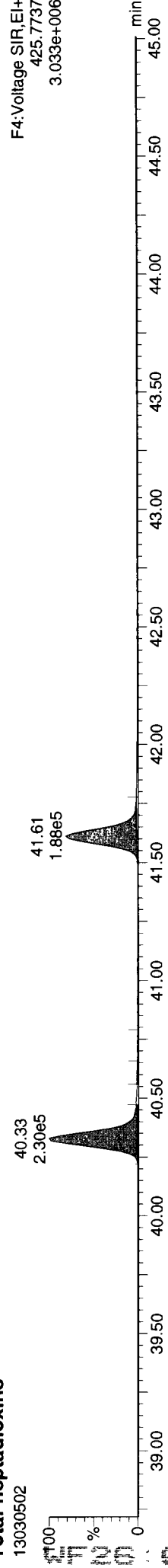
**13C-1234678-HpCDD**  
13030502



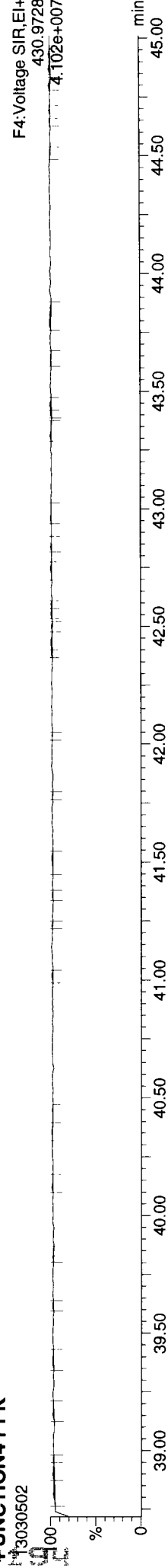
**Total-heptadioxins**  
13030502



**Total-heptadioxins**  
13030502



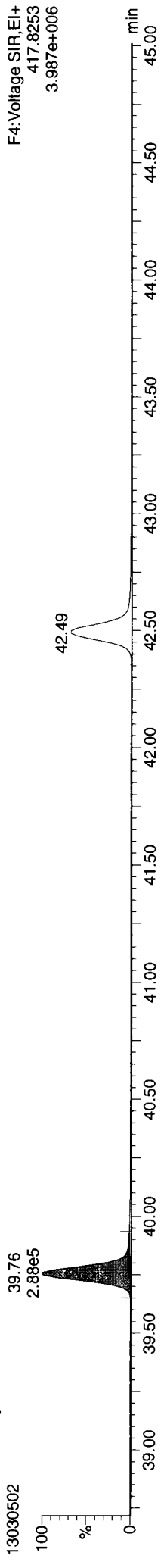
**FUNCTION4 PFK**  
13030502



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

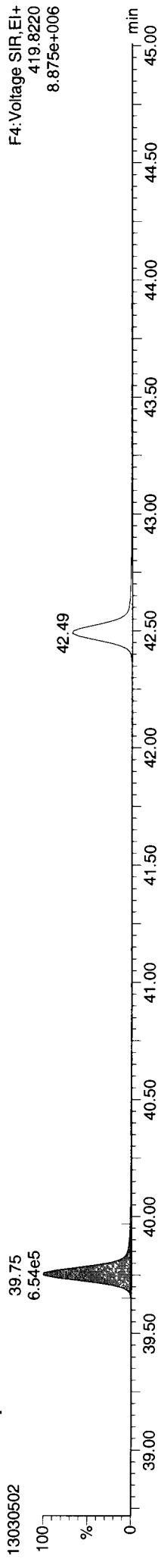
**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

**13C-1234678-HpCDF**



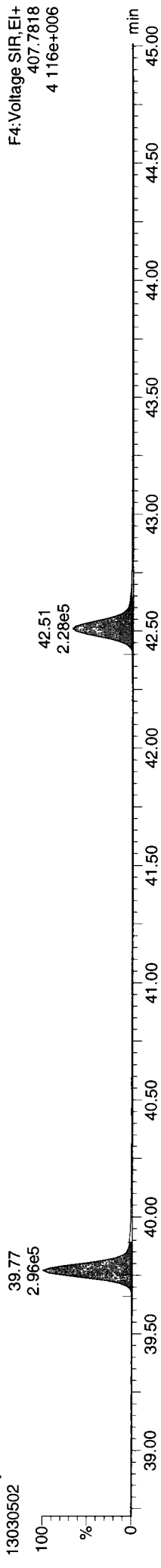
F4: Voltage SIR, EI+  
417.8253  
3.987e+006

**13C-1234678-HpCDF**



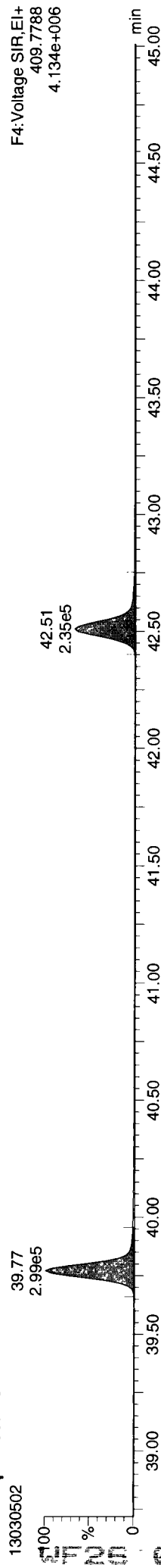
F4: Voltage SIR, EI+  
419.8220  
8.875e+006

**Total-heptafurans**



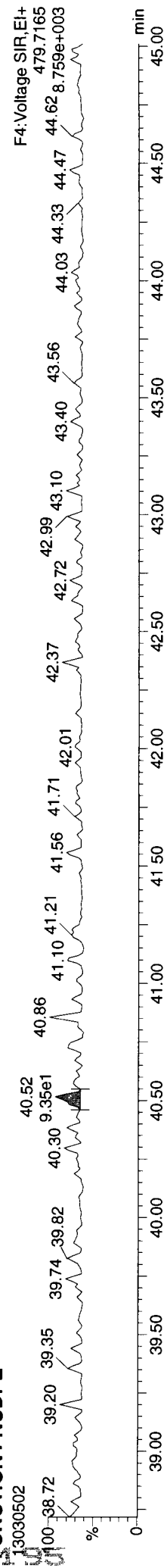
F4: Voltage SIR, EI+  
407.7818  
4.116e+006

**Total-heptafurans**



F4: Voltage SIR, EI+  
409.7788  
4.134e+006

**FUNCTION4 NCDPE**



F4: Voltage SIR, EI+  
479.7165  
8.759e+003

Quantify Sample Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld

Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time

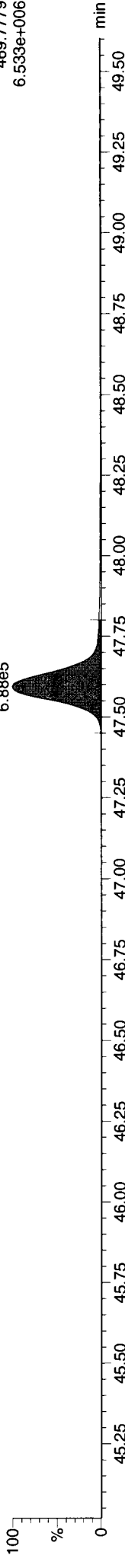
Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk

13C-OCDD

13030502

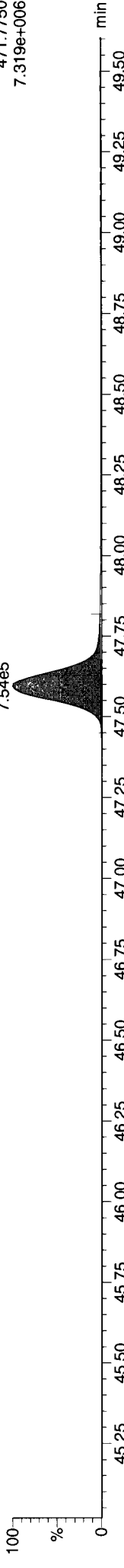
F5:Voltage SIR,EI+  
469.7779  
6.533e+006



13C-OCDD

13030502

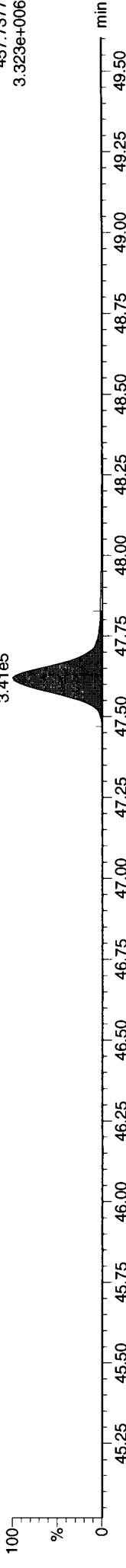
F5:Voltage SIR,EI+  
471.7750  
7.319e+006



OCDD

13030502

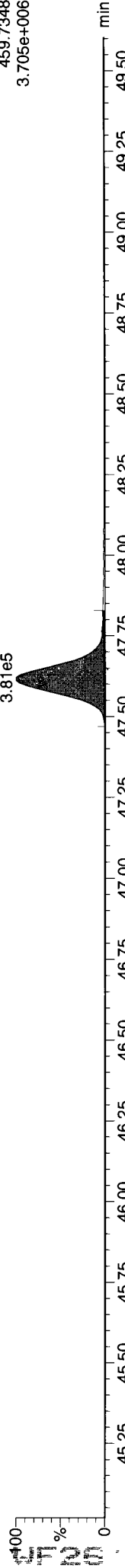
F5:Voltage SIR,EI+  
457.7377  
3.323e+006



OCDD

13030502

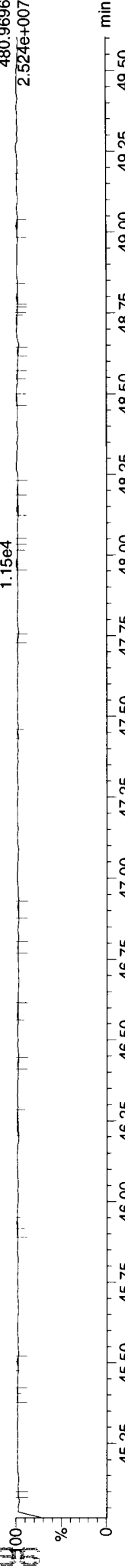
F5:Voltage SIR,EI+  
459.7348  
3.705e+006



FUNCTION5 PFK

13030502

F5:Voltage SIR,EI+  
480.9696  
2.524e+007

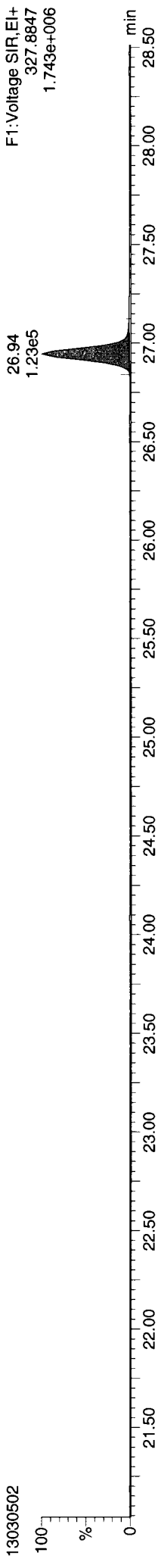




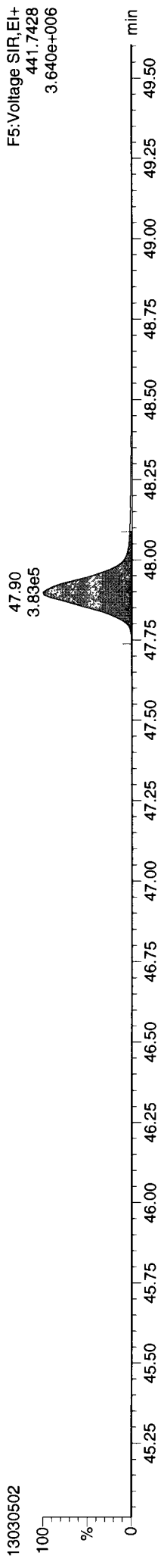
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305OPEN.qld  
 Last Altered: Tuesday, March 05, 2013 13:49:46 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 14:52:40 Pacific Standard Time

**ID: CS3, Name: 13030502, Date: 05-Mar-2013, Time: 12:22:44, Conditions: AUTOSPEC01, User: pk**

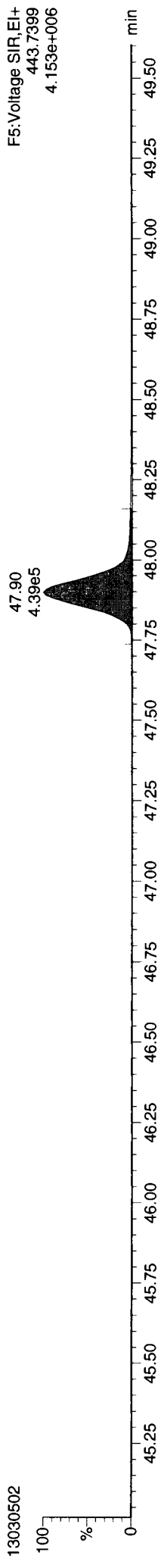
**37CL-2378-TCDD**



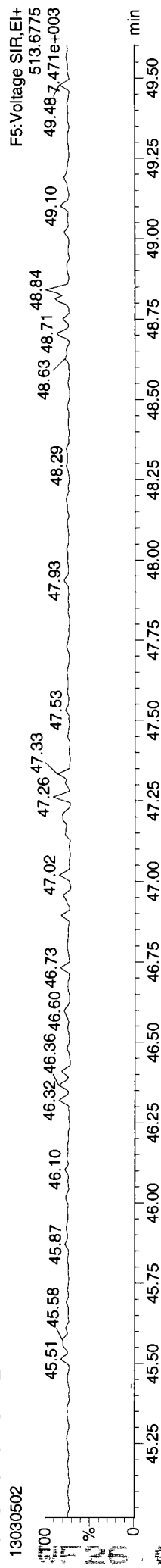
**OCDF**



**OCDF**



**FUNCTION5 DCDPE**



13030502

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26MBS  
 Lab.File ID: 13030504  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.035
12378-PeCDD	356/358	0.00			0.048
123478-HxCDD	390/392	0.00			0.062
123678-HxCDD	390/392	0.00			0.062
123789-HxCDD	390/392	0.00			0.065
1234678-HpCDD	424/426	0.00			0.068
OCDD	458/460	47.59	0.551		
2378-TCDF	304/306	0.00			0.041
12378-PeCDF	340/342	0.00			0.044
23478-PeCDF	340/342	0.00			0.045
123478-HxCDF	374/376	0.00			0.033
234678-HxCDF	374/376	0.00			0.038
123678-HxCDF	374/376	0.00			0.033
123789-HxCDF	374/376	0.00			0.042
1234678-HpCDF	408/410	39.73	0.0497	0.0420	
1234789-HpCDF	408/410	42.50	0.0321		
OCDF	442/444	0.00			0.10

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

*M. 3/5/13*

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

ID	Compound Name	Area	Height	Retention Time (min)	Concentration (ng/ml)	Response	Yield (%)	LOD (ng/ml)	LOQ (ng/ml)	Notes					
1	2378-TCDF	47.590	1.000	8.35e2	1.01e3	1.011	0.823	0.890	13.4	958	9.79e3	1.22e4	NO	0.551	
2	12378-PeCDF	26.271	1.007	4.90e5	6.46e5	1.522	0.759	0.770	2773.1	2439	6.76e6	8.82e6	NO	80.001	
3	23478-PeCDF	30.419	1.166	5.45e5	3.35e5	1.185	1.630	1.550	1409.0	5393	7.60e6	4.74e6	NO	79.545	
4	123478-HxCDF	31.767	1.217	5.10e5	3.29e5	1.136	1.549	1.550	1320.2	5393	7.12e6	4.47e6	NO	79.130	
5	234678-HxCDF	35.438	0.952	2.15e5	4.08e5	1.284	0.527	0.510	840.8	3735	5322	3.14e6	6.01e6	NO	87.752
6	123678-HxCDF	35.592	0.956	2.46e5	4.77e5	1.383	0.515	0.510	873.4	3735	5322	3.26e6	6.33e6	NO	94.486
7	13C-234678-HxCDF	36.534	0.981	1.98e5	3.80e5	1.283	0.521	0.510	750.1	3735	5322	2.80e6	5.40e6	NO	81.556
8	13C-123789-HxCDF	37.663	1.012	1.88e5	3.57e5	1.099	0.525	0.510	721.2	3735	5322	2.69e6	5.30e6	NO	89.661
9	13C-1234678-HpCDF	39.746	1.068	1.52e5	3.39e5	1.070	0.449	0.440	1029.3	2055	2448	2.11e6	4.55e6	NO	83.116
10	13C-1234789-HpCDF	42.475	1.141	1.21e5	2.66e5	0.774	0.454	0.440	666.2	2055	2448	1.37e6	3.09e6	NO	90.262
11	13C-1234-TCDD	26.092	0.000	4.09e5	5.25e5	1.000	0.779	0.770	1777.4	3300	2164	5.87e6	7.48e6	NO	100.000
12	13C-2378-TCDD	26.914	1.031	3.30e5	4.31e5	0.943	0.767	0.770	1321.8	3300	2164	4.36e6	5.67e6	NO	86.534
13	13C-12378-PeCDD	32.019	1.227	3.33e5	2.17e5	0.715	1.535	1.550	1749.7	2709	2647	4.74e6	3.05e6	NO	82.256
14	13C-123478-HxCDD	36.677	0.985	2.84e5	2.27e5	1.032	1.252	1.240	1241.3	3316	3075	4.12e6	3.27e6	NO	89.570
15	13C-123678-HxCDD	36.797	0.989	3.20e5	2.53e5	1.076	1.266	1.240	1304.0	3316	3075	4.32e6	3.47e6	NO	96.274
16	13C-1234678-HpCDD	41.576	1.117	2.17e5	2.14e5	0.838	1.014	1.050	1126.8	2468	2203	2.78e6	2.65e6	NO	93.052
17	13C-OCDD	47.573	1.278	3.11e5	3.53e5	0.675	0.881	0.890	1415.1	2066	1804	2.92e6	3.30e6	NO	177.915

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

	37.225	0.000	3.08e5	2.46e5	1.000	1.253	1.240	1295.5	3316	3075	4.30e6	3.52e6	NO	100.000
13C-123789-HxCDD			0.00e0		0.921				734		0.00e0			
Total-tetrafurans			0.00e0						551		0.00e0			
Total-penta1			0.00e0		0.927				503		0.00e0			
Total-pentafurans			0.00e0		1.062				641		0.00e0			0.082
Total-hexafurans			2.05e2		1.231				585		4.89e3			0.082
Total-heptafurans			2.05e2		1.065				734		4.89e3			0.026
Total-Furans			1.49e2		1.106				675		3.63e3			
Total-tetra-dioxins			0.00e0		1.001				982		0.00e0			
Total-pentadioxins			0.00e0		0.937				913		0.00e0			
Total-hexadioxins			0.00e0		1.029				869		0.00e0			0.576
Total-heptadioxins			9.84e2		0.994				675		1.34e4			0.658
Total-Dioxins			1.19e3						675		1.83e4			33.792
Total-TEQ			3.32e5		1.051			2495.7	1829		4.56e6			
37CL-2378-TCDD	26.929	1.032	1.80e6					445262			2.80e7			
FUNCTION1 PFK			2.70e5					212782			6.74e6			0.000
FUNCTION2 PFK			0.00e0					351384			0.00e0			
FUNCTION3 PFK			2.26e5					275459			7.54e6			
FUNCTION4 PFK			2.10e4					233588			9.04e5			
FUNCTION5 PFK			1.65e2					425			4.35e3			0.000
FUNCTION1 HXCDPE			8.05e2					1002			1.69e4			0.000
FUNCTION1 HPCDPE			4.32e2					1165			1.02e4			0.000
FUNCTION2 HPCDPE			0.00e0					467			0.00e0			
FUNCTION3 OCDPE			1.71e2					713			4.27e3			0.000
FUNCTION4 NCDPE			0.00e0					218			0.00e0			
FUNCTION5 DCDPE														

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

PP

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

PF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

HF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

HPF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
9	1234789-HpCDF	407.7818	42.50	151.445	1.224	0.032	0.032	0.94	1.05	NO	3.1
8	1234678-HpCDF	407.7818	39.73	302.606	1.238	0.050	0.042	0.78	1.05	YES	5.2

*Handwritten mark*

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
9	1234789-HpCDF	407.7818	42.50	151.445	1.224	0.032	0.032	0.94	1.05	NO	3.1
8	1234678-HpCDF	407.7818	39.73	302.606	1.238	0.050	0.042	0.78	1.05	YES	5.2

TD

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
41	Total-tetraoxins	319.8965	26.44	218.741	1.106	0.026		2.12	0.77	YES	5.4

*Handwritten mark*

PD

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

HD

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

HPD

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs Resp	PFM...	pg	EMPC	1° Fail	1° Fail	1° Fail	SN
41	Total-tetradoxins	319.8965	26.44	218.741	1.106	0.026		2.12	0.77	YES	5.4
17	OCDD	457.7377	47.59	1850.154	1.011	0.551	0.551	0.82	0.89	NO	13.4

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	PFM...	pg	EMPC	1° Fail	1° Fail	1° Fail	SN
9	1234789-HpCDF	407.7818	42.50	151.445	1.224	0.032	0.032	0.94	1.05	NO	3.1
8	1234678-HpCDF	407.7818	39.73	302.606	1.238	0.050	0.042	0.78	1.05	YES	5.2
41	Total-tetradoxins	319.8965	26.44	218.741	1.106	0.026		2.12	0.77	YES	5.4
17	OCDD	457.7377	47.59	1850.154	1.011	0.551	0.551	0.82	0.89	NO	13.4

PFK1

#	Name	Trace	RT	Abs Resp	PFM...	pg	EMPC	1° Fail	1° Fail	1° Fail	SN
48	FUNCTION1 PFK	330.9792	23.81	0.000							0.5
48	FUNCTION1 PFK	330.9792	23.69	0.000							1.6
48	FUNCTION1 PFK	330.9792	23.39	0.000							4.4
48	FUNCTION1 PFK	330.9792	22.97	0.000							2.1
48	FUNCTION1 PFK	330.9792	22.88	0.000							1.3
48	FUNCTION1 PFK	330.9792	22.78	0.000							1.3
48	FUNCTION1 PFK	330.9792	22.69	0.000							1.6
48	FUNCTION1 PFK	330.9792	22.27	0.000							0.4
48	FUNCTION1 PFK	330.9792	22.09	0.000							1.6
48	FUNCTION1 PFK	330.9792	21.91	0.000							4.5
48	FUNCTION1 PFK	330.9792	21.85	0.000							4.7
48	FUNCTION1 PFK	330.9792	21.64	0.000							2.2
48	FUNCTION1 PFK	330.9792	21.54	0.000							0.9
48	FUNCTION1 PFK	330.9792	21.34	0.000							1.8
48	FUNCTION1 PFK	330.9792	21.21	0.000							1.7
48	FUNCTION1 PFK	330.9792	27.87	0.000							1.5
48	FUNCTION1 PFK	330.9792	27.62	0.000							0.8
48	FUNCTION1 PFK	330.9792	27.20	0.000							2.0
48	FUNCTION1 PFK	330.9792	26.97	0.000							2.3
48	FUNCTION1 PFK	330.9792	26.82	0.000							1.4
48	FUNCTION1 PFK	330.9792	26.45	0.000							0.9
48	FUNCTION1 PFK	330.9792	26.00	0.000							2.1
48	FUNCTION1 PFK	330.9792	25.94	0.000							1.7
48	FUNCTION1 PFK	330.9792	25.61	0.000							1.0
48	FUNCTION1 PFK	330.9792	25.41	0.000							2.9
48	FUNCTION1 PFK	330.9792	25.30	0.000							0.9
48	FUNCTION1 PFK	330.9792	25.21	0.000							1.1
48	FUNCTION1 PFK	330.9792	24.96	0.000							2.8
48	FUNCTION1 PFK	330.9792	24.84	0.000							0.5
48	FUNCTION1 PFK	330.9792	24.54	0.000							5.5
48	FUNCTION1 PFK	330.9792	24.37	0.000							1.4
48	FUNCTION1 PFK	330.9792	28.20	0.000							1.1
48	FUNCTION1 PFK	330.9792	28.05	0.000							1.2
48	FUNCTION1 PFK	330.9792	27.99	0.000							0.6
48	FUNCTION1 PFK	330.9792	27.93	0.000							0.6

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs Resp	RFI M...	pg	EMPC	1* Rat...	1* Rat...	1* R...	SN
49	FUNCTION2 PFK	366.9792	29.99	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	29.95	0.000		0.000					1.8
49	FUNCTION2 PFK	366.9792	29.77	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	29.52	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	29.31	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	29.25	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	29.08	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	28.96	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	28.83	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.75	0.000		0.000					2.2
49	FUNCTION2 PFK	366.9792	28.60	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	33.06	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	32.67	0.000		0.000					2.4
49	FUNCTION2 PFK	366.9792	32.60	0.000		0.000					2.4
49	FUNCTION2 PFK	366.9792	32.00	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	31.92	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	31.89	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	31.57	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	31.46	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	31.19	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	31.13	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	31.01	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	30.81	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.61	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	30.53	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	30.13	0.000		0.000					1.3

PFK3

#	Name	Trace	RT	Abs Resp	RFI M...	pg	EMPC	1* Rat...	1* Rat...	1* R...	SN
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Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

D: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
51	FUNCTION4 PFK	430.9728	43.60	0.000							1.0
51	FUNCTION4 PFK	430.9728	43.56	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.09	0.000							0.9
51	FUNCTION4 PFK	430.9728	42.46	0.000							2.2
51	FUNCTION4 PFK	430.9728	42.18	0.000							0.7
51	FUNCTION4 PFK	430.9728	42.11	0.000							1.3
51	FUNCTION4 PFK	430.9728	41.89	0.000							0.9
51	FUNCTION4 PFK	430.9728	41.85	0.000							0.5
51	FUNCTION4 PFK	430.9728	40.49	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.13	0.000							1.9
51	FUNCTION4 PFK	430.9728	39.66	0.000							1.8
51	FUNCTION4 PFK	430.9728	39.63	0.000							2.1
51	FUNCTION4 PFK	430.9728	39.52	0.000							1.3
51	FUNCTION4 PFK	430.9728	39.34	0.000							0.5
51	FUNCTION4 PFK	430.9728	39.11	0.000							1.4
51	FUNCTION4 PFK	430.9728	44.72	0.000							0.7
51	FUNCTION4 PFK	430.9728	44.57	0.000							1.2
51	FUNCTION4 PFK	430.9728	44.46	0.000							1.1
51	FUNCTION4 PFK	430.9728	44.38	0.000							1.1
51	FUNCTION4 PFK	430.9728	44.27	0.000							1.6
51	FUNCTION4 PFK	430.9728	43.95	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.76	0.000							1.3

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
52	FUNCTION5 PFK	480.9696	48.76	0.000							0.6
52	FUNCTION5 PFK	480.9696	47.81	0.000							1.7
52	FUNCTION5 PFK	480.9696	46.89	0.000							1.6

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
53	FUNCTION1 HXCD...	375.8364	26.88	0.000		0.000					5.5
53	FUNCTION1 HXCD...	375.8364	26.59	0.000		0.000					4.7

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
54	FUNCTION1 HPCD...	409.7974	21.22	0.000		0.000					2.3
54	FUNCTION1 HPCD...	409.7974	27.96	0.000		0.000					2.3
54	FUNCTION1 HPCD...	409.7974	27.42	0.000		0.000					2.1
54	FUNCTION1 HPCD...	409.7974	26.24	0.000		0.000					1.4
54	FUNCTION1 HPCD...	409.7974	25.64	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	25.39	0.000		0.000					2.3
54	FUNCTION1 HPCD...	409.7974	22.51	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	22.46	0.000		0.000					3.0



Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
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D: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

ETHERS3

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
55	FUNCTION2 HPCD...	409.7974	32.21	0.000		0.000					1.6
55	FUNCTION2 HPCD...	409.7974	32.05	0.000		0.000					1.4
55	FUNCTION2 HPCD...	409.7974	31.95	0.000		0.000					2.3
55	FUNCTION2 HPCD...	409.7974	31.14	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	28.70	0.000		0.000					1.4

ETHERS4

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
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ETHERS5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
57	FUNCTION4 NCDPE	479.7165	42.69	0.000		0.000					3.1
57	FUNCTION4 NCDPE	479.7165	44.59	0.000		0.000					2.9

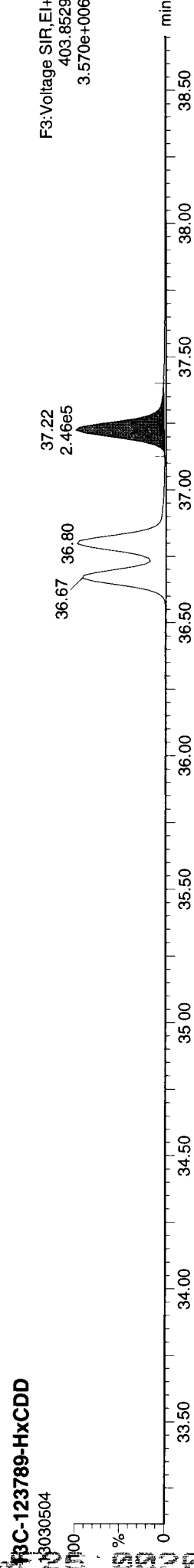
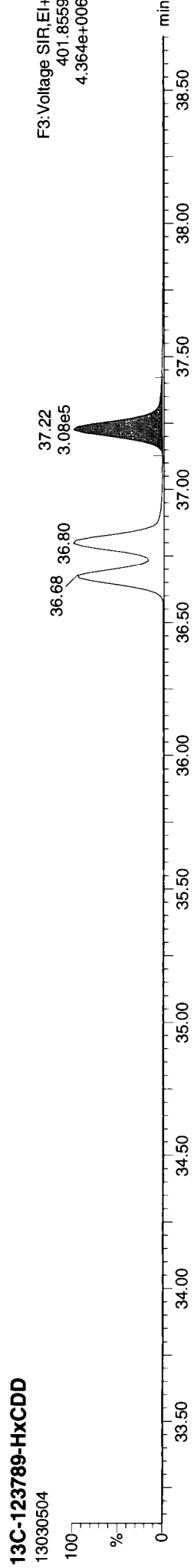
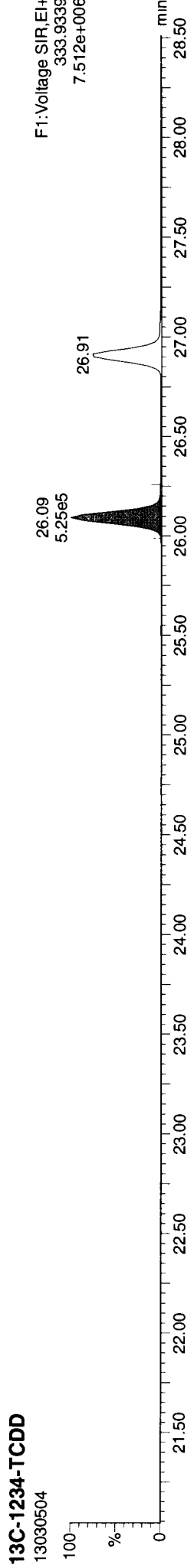
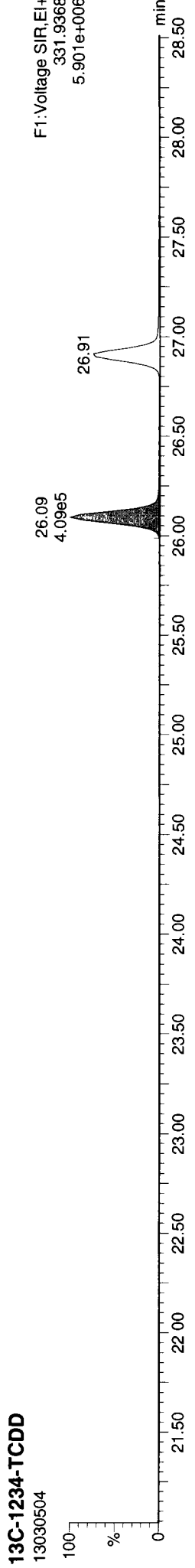
ETHERS6

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
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Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

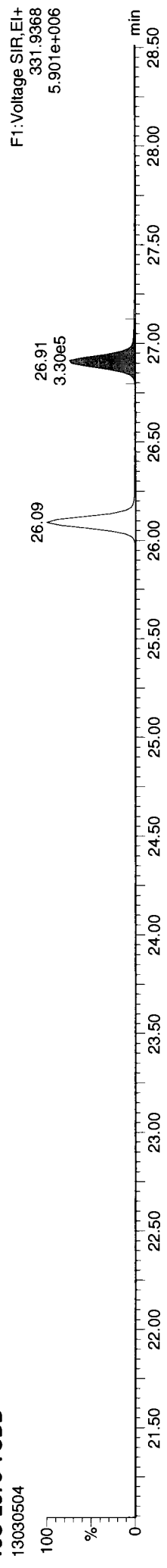
ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk



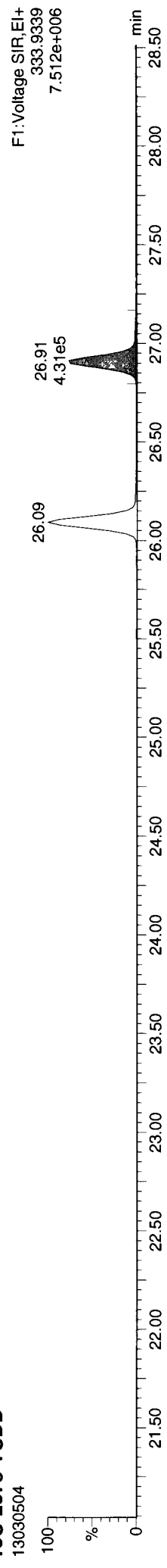
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305QC.qid  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

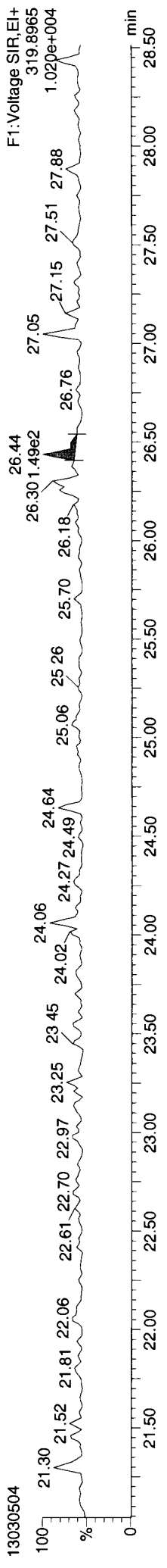
13C-2378-TCDD  
13030504



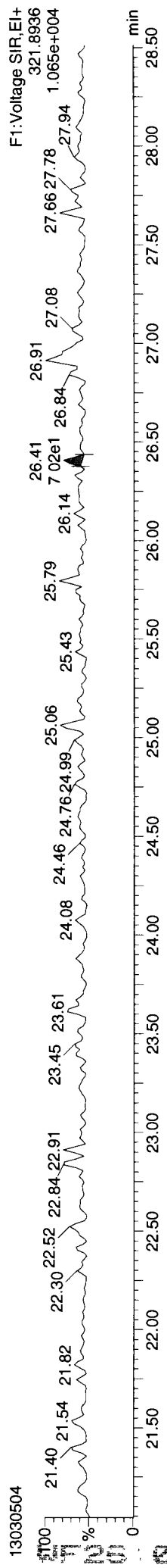
13C-2378-TCDD  
13030504



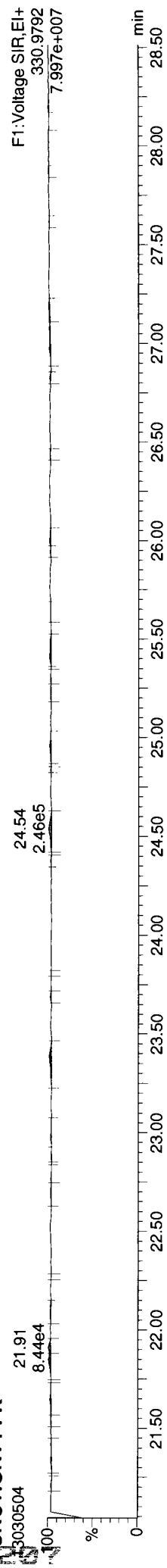
Total-tetradoxins  
13030504



Total-tetradoxins  
13030504

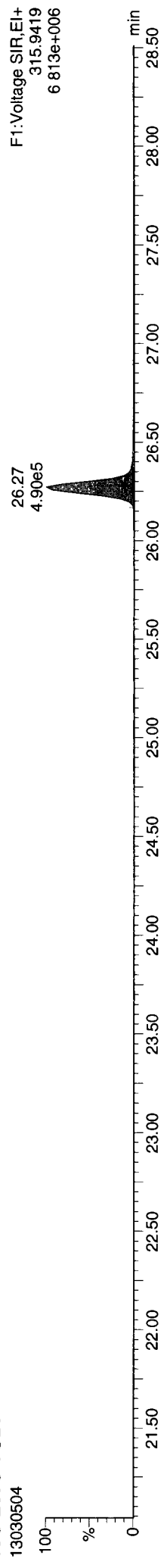


FUNCTION1 PFK  
13030504

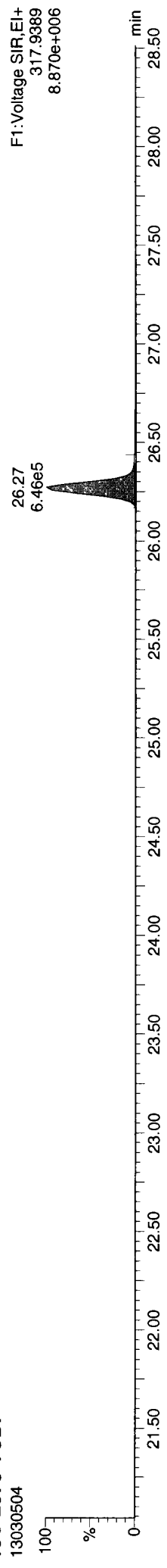


ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

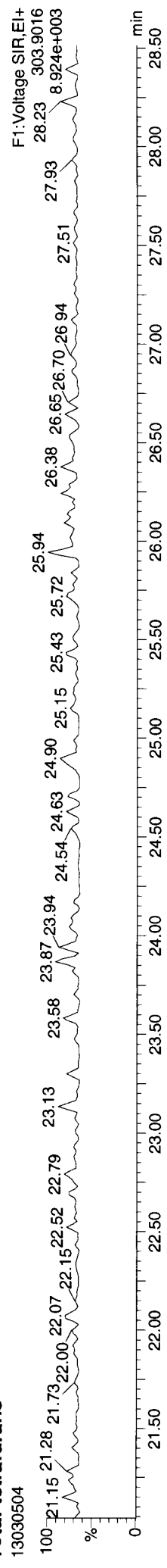
13C-2378-TCDF  
13030504



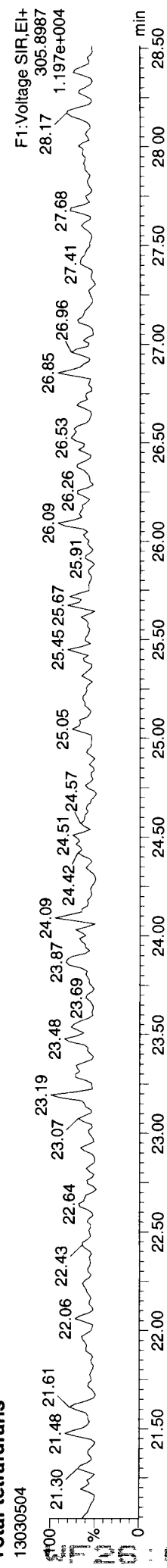
13C-2378-TCDF  
13030504



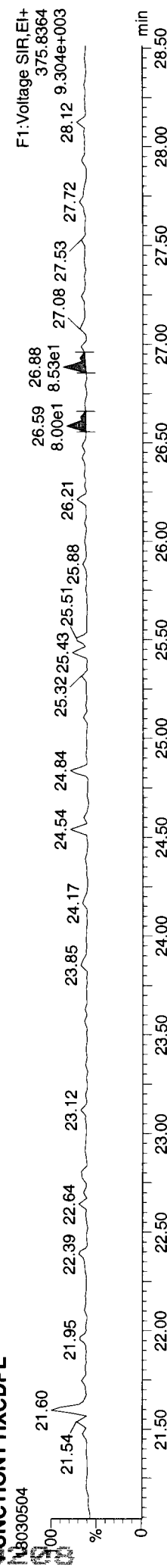
Total-tetrafurans  
13030504



Total-tetrafurans  
13030504



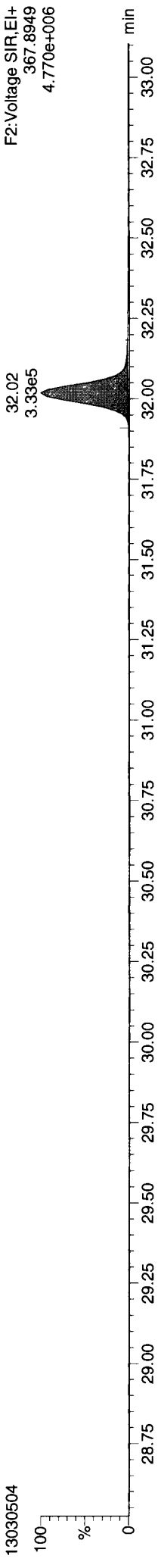
FUNCTION1 HXCDPE  
13030504



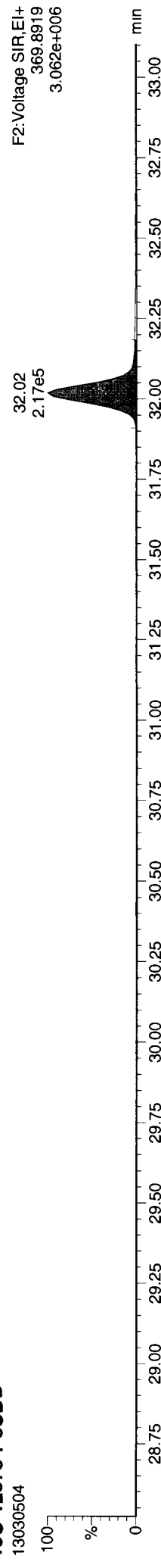
Quantify Sample Report MaselLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

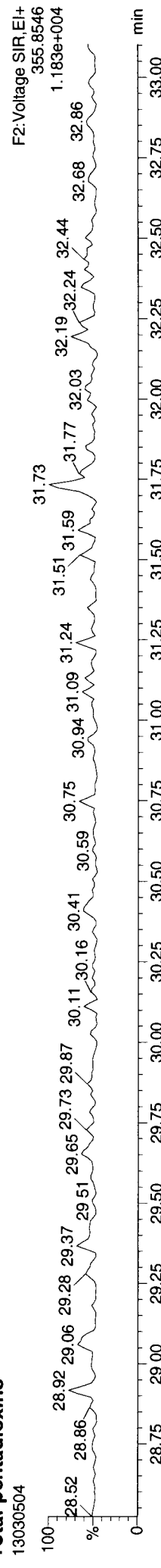
**13C-12378-PeCDD**  
13030504



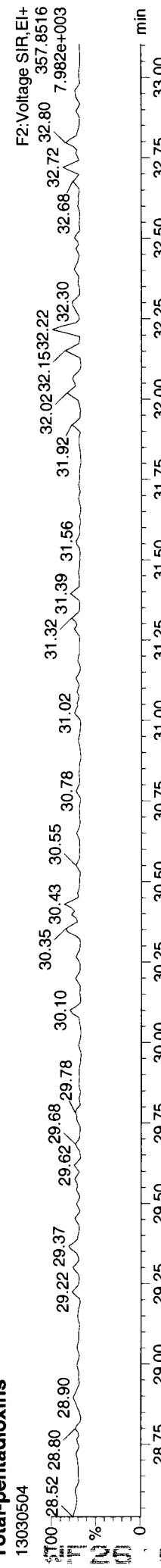
**13C-12378-PeCDD**  
13030504



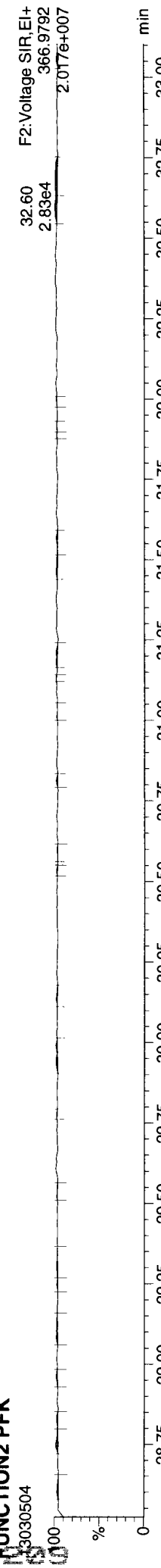
**Total-pentadioxins**  
13030504



**Total-pentadioxins**  
13030504



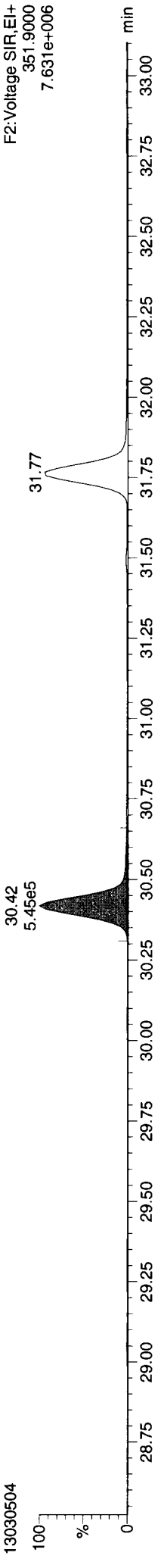
**FUNCTION2 PFK**  
13030504



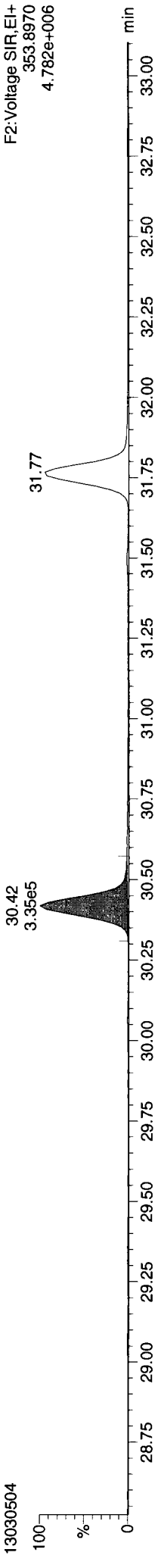
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

**ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk**

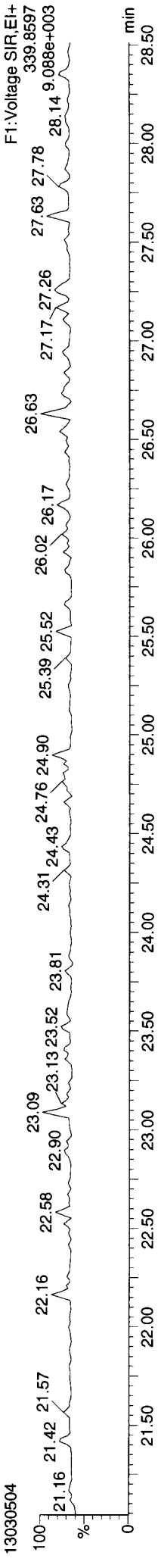
**13C-12378-PeCDF**



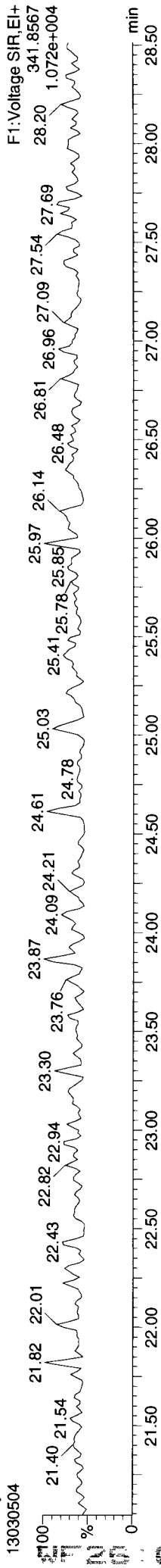
**13C-12378-PeCDF**



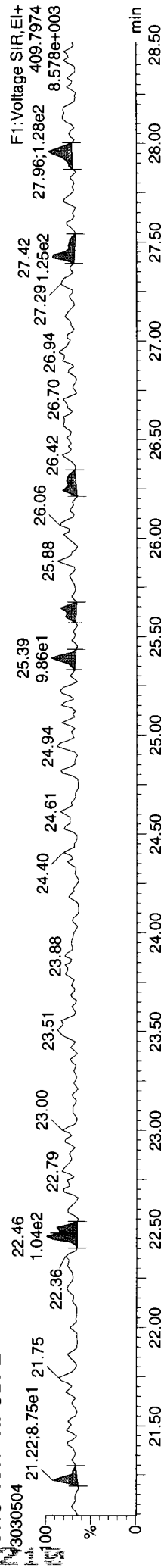
**Total-penta1**



**Total-penta1**



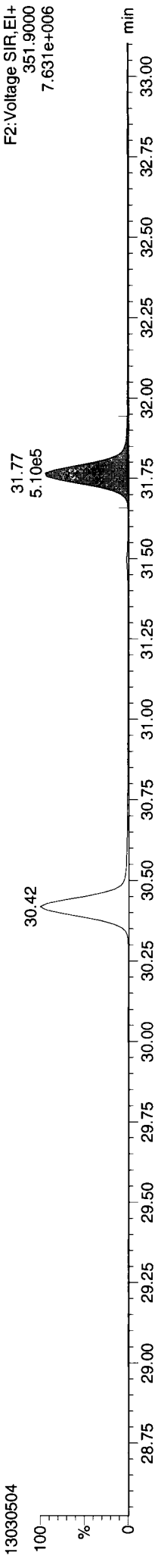
**FUNCTION1 HPCDPE**



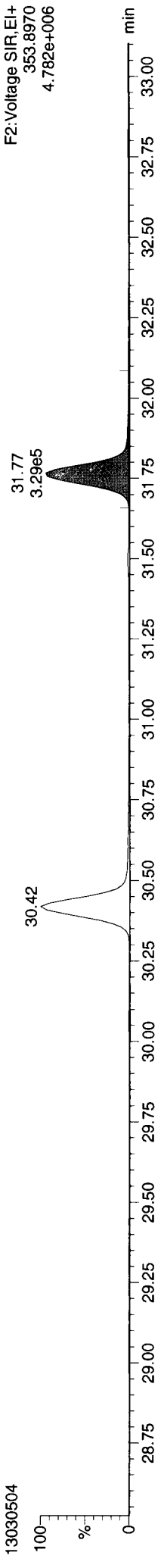
Quantify Sample Report MasLynx 4.1 SCN 714  
Dataset: P:\DIOXIN6290.PRO\130305QC.qid  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

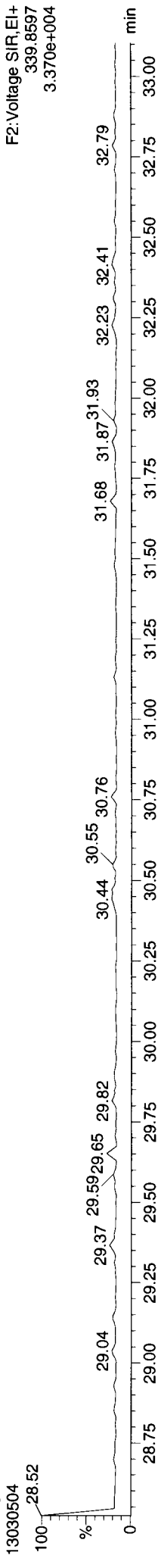
13C-23478-PeCDF



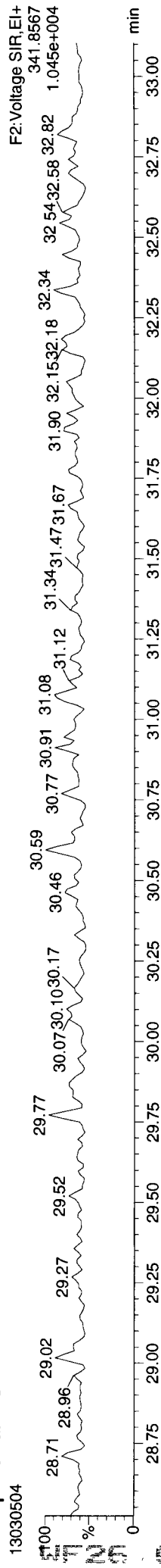
13C-23478-PeCDF



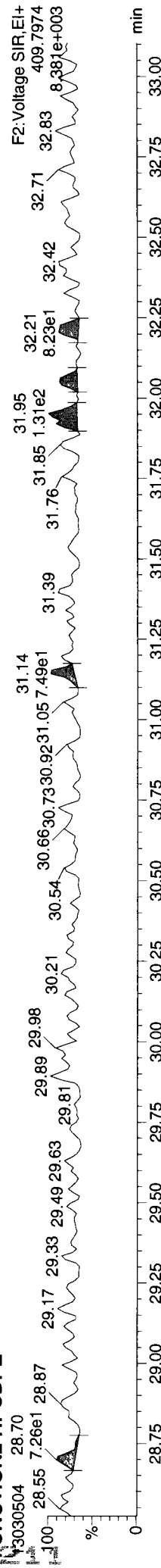
Total-pentafurans



Total-pentafurans



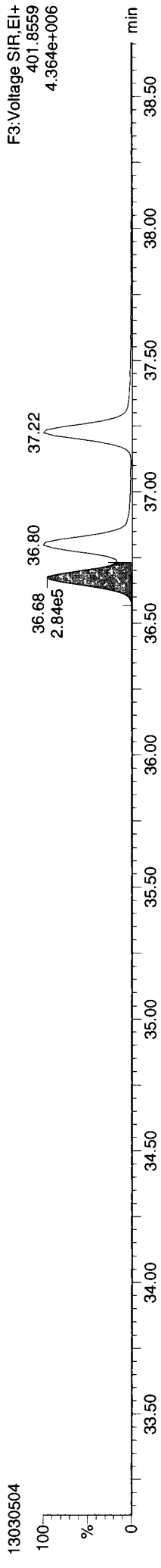
FUNCTION2 HPCDPE



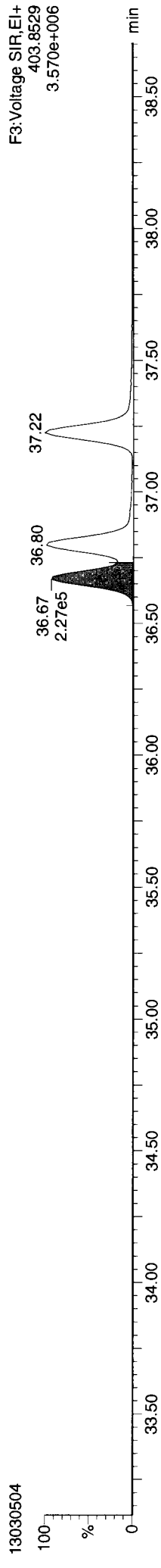
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

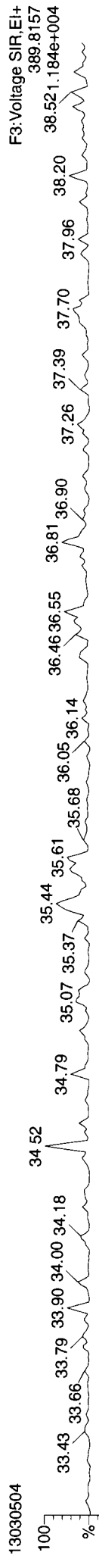
13C-123478-HxCDD  
13030504



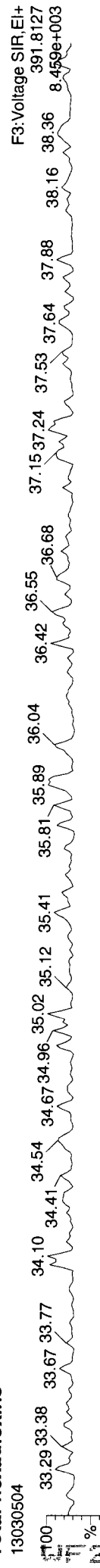
13C-123478-HxCDD  
13030504



Total-hexadioxins  
13030504



Total-hexadioxins  
13030504



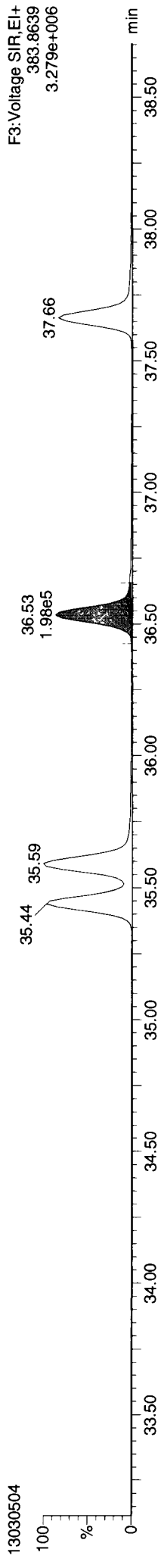
FUNCTION3 PFK  
13030504



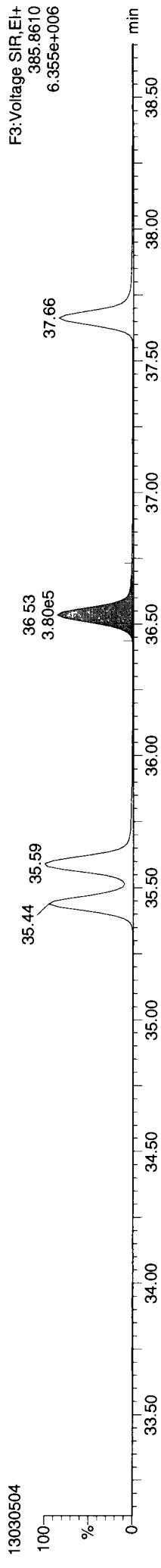


ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

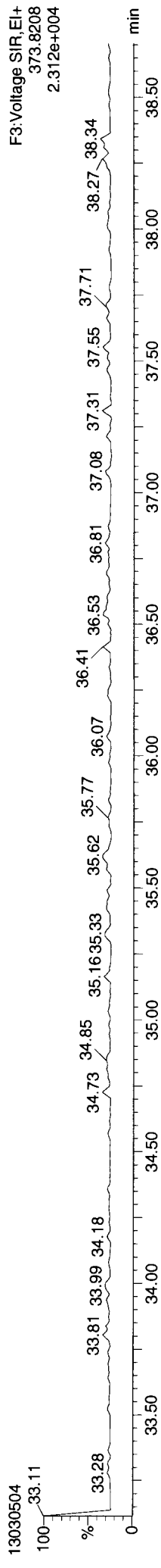
13C-234678-HxCDF



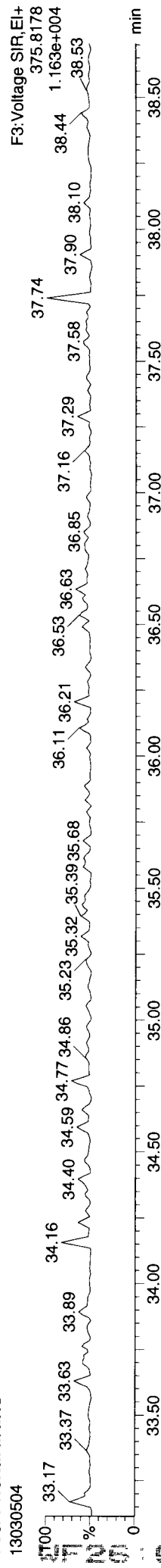
13C-234678-HxCDF



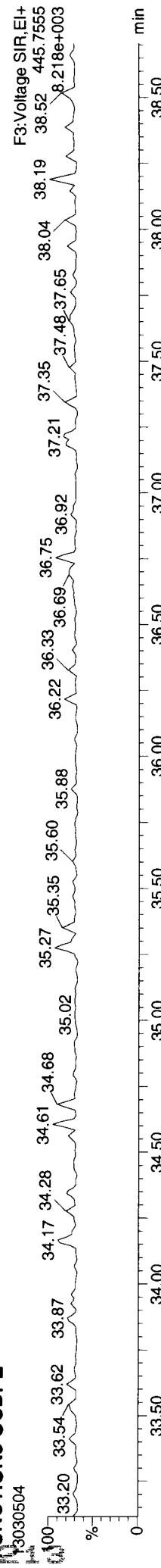
Total-hexafurans



Total-hexafurans



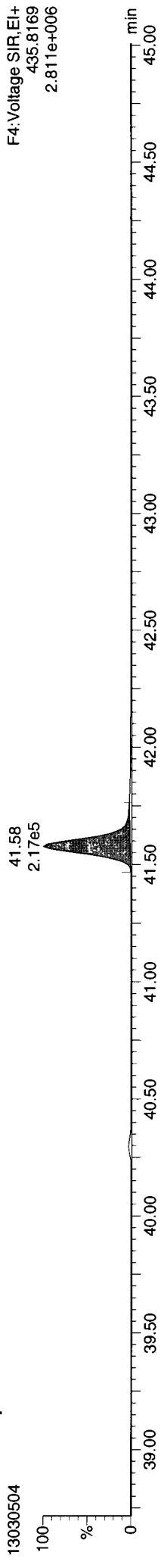
FUNCTION3 OCDPE



Quantify Sample Report **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

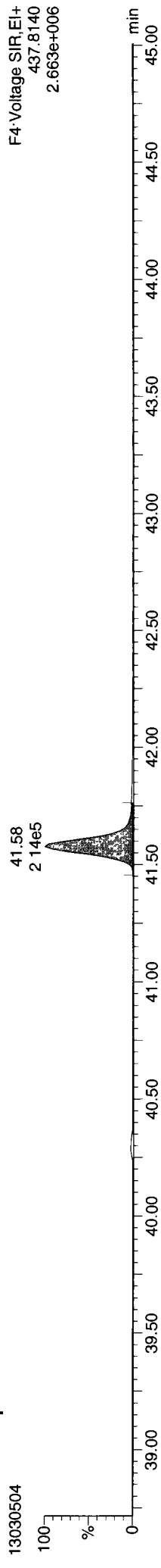
ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

**13C-1234678-HpCDD**  
13030504



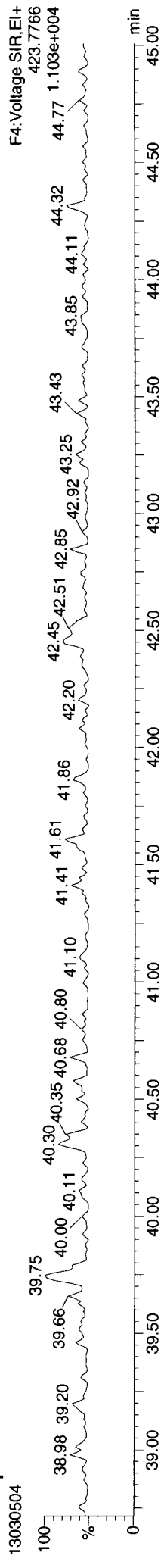
F4: Voltage SIR, EI+  
435.8169  
2.811e+006

**13C-1234678-HpCDD**  
13030504



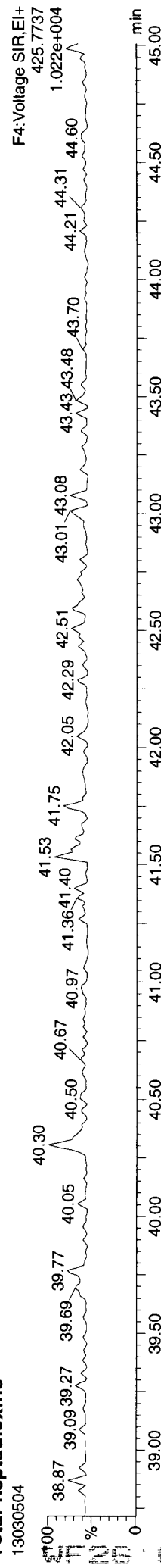
F4: Voltage SIR, EI+  
437.8140  
2.663e+006

**Total-heptadioxins**  
13030504



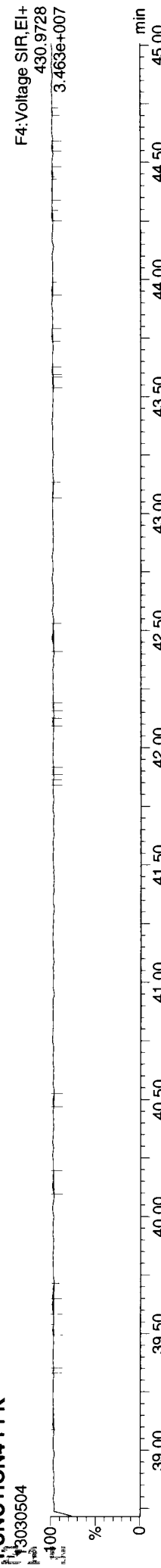
F4: Voltage SIR, EI+  
423.7766  
44.77 1.103e+004

**Total-heptadioxins**  
13030504



F4: Voltage SIR, EI+  
425.7737  
1.022e+004

**FUNCTION4 PFK**  
13030504

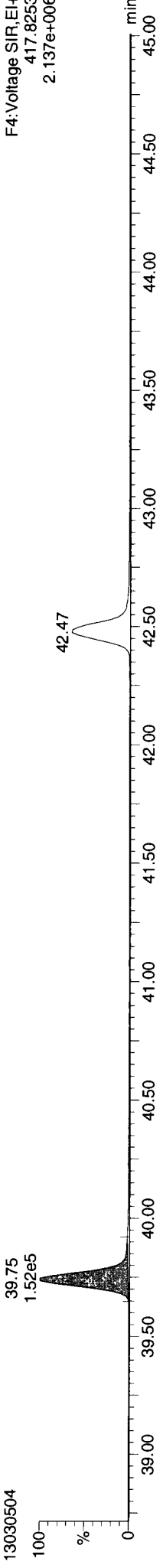


F4: Voltage SIR, EI+  
430.9728  
3.463e+007

Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

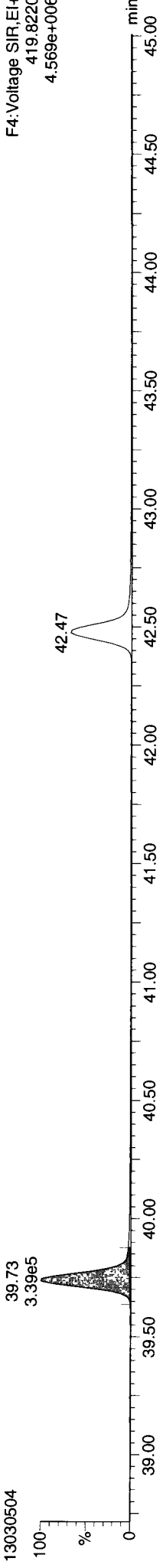
ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



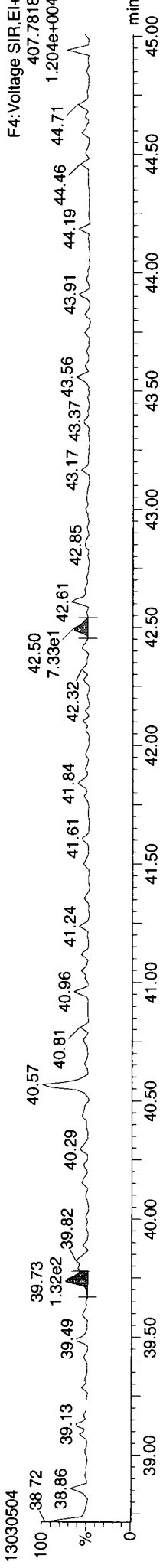
F4: Voltage SIR, EI+  
417.8253  
2.137e+006

13C-1234678-HpCDF



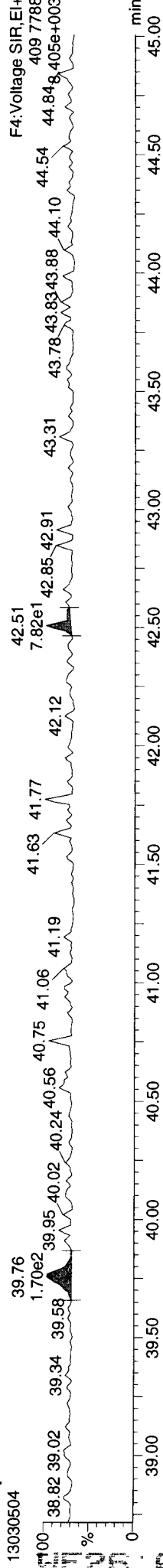
F4: Voltage SIR, EI+  
419.8220  
4.569e+006

Total-heptafurans



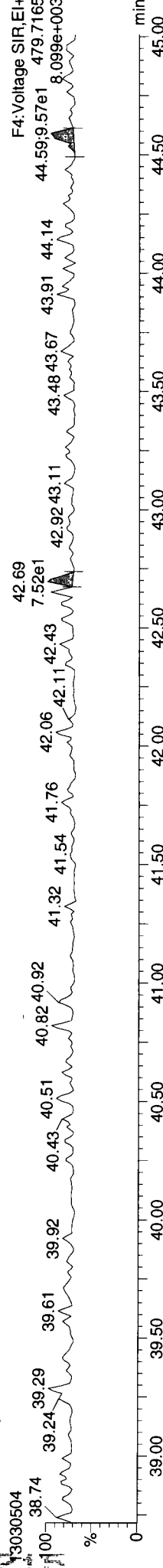
F4: Voltage SIR, EI+  
407.7818  
1.204e+004

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
44.848,405e+003

FUNCTION4 NCDPE

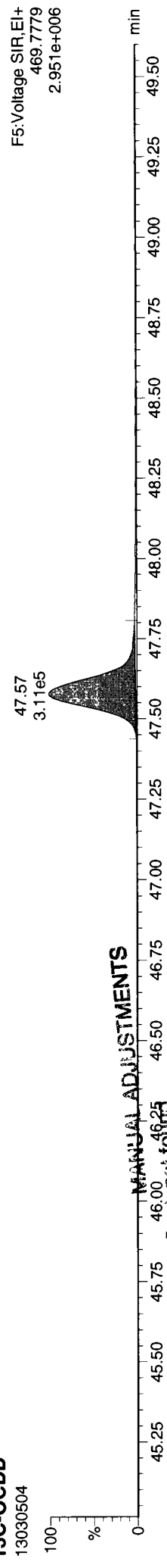


F4: Voltage SIR, EI+  
479.7165  
8.099e+003

**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305QC.qid  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

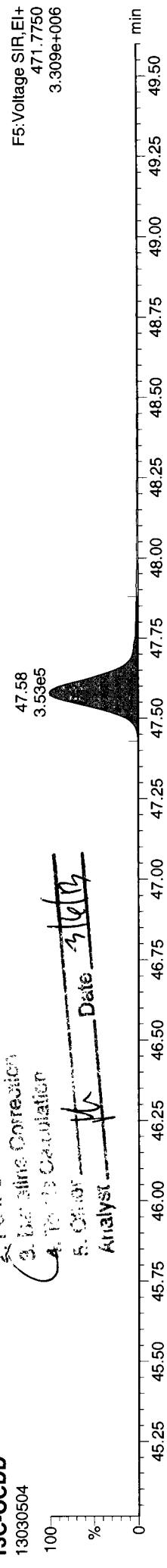
**ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk**

**13C-OCDD**  
13030504



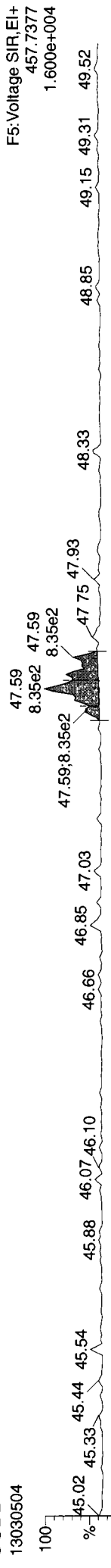
**MANUAL ADJUSTMENTS**

**13C-OCDD**  
13030504



1. Peak not found
2. Peak Correlation
3. Baseline Correction
4. T<sub>R</sub> Calculation
5. Check Date 3/6/13

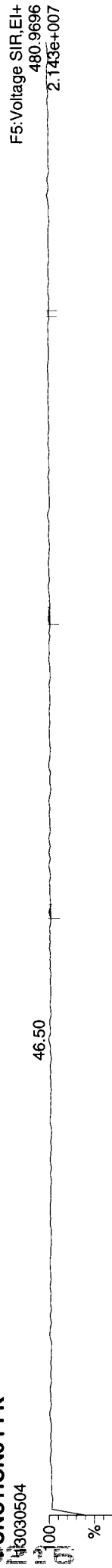
**OCDD**  
13030504



**OCDD**  
13030504



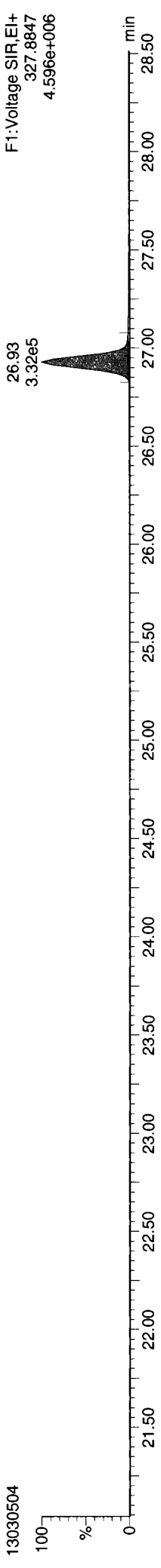
**FUNCTION5 PFK**  
13030504



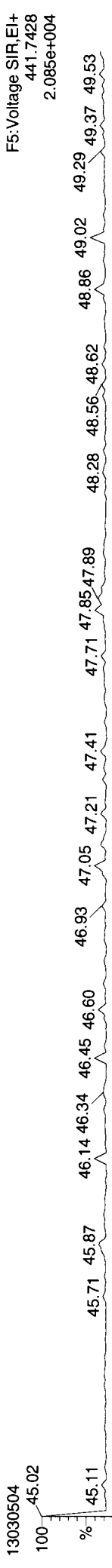
Dataset: P:\DIOXIN8290.PRO\130305QC.qid  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:11:44 Pacific Standard Time

ID: WF26MBS, Name: 13030504, Date: 05-Mar-2013, Time: 14:15:44, Conditions: AUTOSPEC01, User: pk

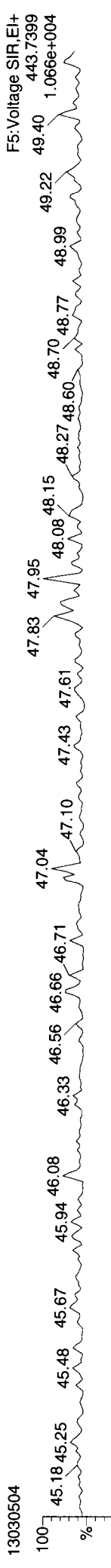
37CL-2378-TCDD



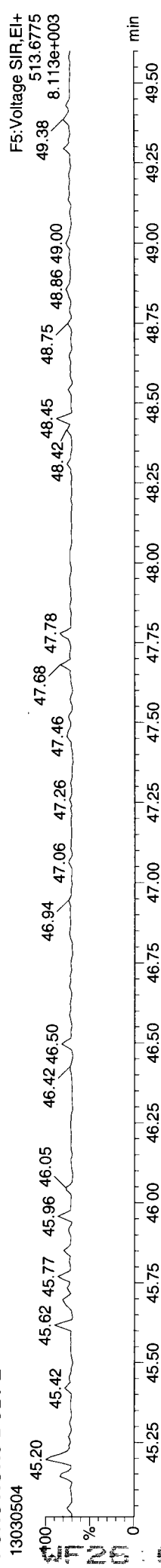
OCDF



OCDF



FUNCTION5 DCDPE



13030504



Quantify Sample Summary Report  
 Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

MassLynx 4.1 SCN 714

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

Peak #	Retention Time (min)	Mass	Area	Height	Integration	Response	Concentration	Unit	Elemental Analysis						
34	13C-123789-HxCDD	37.228	0.000	3.85e5	3.08e5	1.000	1.251	1.240	3057.5	1786	2007	5.46e6	4.34e6	NO	100.000
35	Total-tetrafurans			5.51e4		0.921				1038		7.45e5			9.992
36	Total-penta1			0.00e0						778		0.00e0			
37	Total-pentafurans			5.80e5		0.927				3730		8.17e6			103.260
38	Total-hexaturans			8.68e5		1.062				2784		1.24e7			205.780
39	Total-heptaturans			3.40e5		1.231				2730		4.37e6			106.956
40	Total-Furans			2.05e6		1.065				1038		2.77e7			522.503
41	Total-tetra-dioxins			3.86e4		1.106				1318		5.30e5			9.471
42	Total-penta-dioxins			2.01e5		1.001				2038		2.84e6			51.567
43	Total-hexa-dioxins			4.91e5		0.937				2289		6.87e6			148.702
44	Total-hepta-dioxins			1.34e5		1.029				2727		1.70e6			49.006
45	Total-Dioxins			1.05e6		0.994				1318		1.38e7			355.166
46	Total-TEQ			3.10e6						1318		4.15e7			877.670
47	37CL-2378-TCDD	26.930	1.032	3.84e5		1.051			2317.7	2210		5.12e6			32.826
48	FUNCTION1 PFK			3.08e7						515554		1.20e8			
49	FUNCTION2 PFK			2.28e5						202402		6.17e6			0.000
50	FUNCTION3 PFK			4.50e5						346301		1.46e7			0.000
51	FUNCTION4 PFK			1.40e5						265614		4.88e6			
52	FUNCTION5 PFK			2.19e5						225189		8.90e6			
53	FUNCTION1 HXCDPE			1.83e2						372		4.55e3			0.000
54	FUNCTION1 HPCDPE			1.19e3						1194		2.56e4			0.000
55	FUNCTION2 HPCDPE			1.30e3						1259		3.85e4			0.000
56	FUNCTION3 OCDPE			7.62e1						341		1.77e3			0.000
57	FUNCTION4 NCDPE			7.51e1						583		2.95e3			0.000
58	FUNCTION5 DCDPE			0.00e0						364		0.00e0			0.000

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

D: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
35	Total-tetrafurans	303.9016	27.45	239.160	0.921	0.018		0.59	0.77	YES	2.9
35	Total-tetrafurans	303.9016	26.56	448.065	0.921	0.035		0.45	0.77	YES	3.8
1	2378-TCDF	303.9016	26.29	125172.746	0.921	9.674	9.674	0.75	0.77	NO	691.6
35	Total-tetrafurans	303.9016	25.36	876.535	0.921	0.068		0.71	0.77	NO	5.0
35	Total-tetrafurans	303.9016	25.18	1208.434	0.921	0.093		0.23	0.77	YES	5.3
35	Total-tetrafurans	303.9016	25.05	1335.184	0.921	0.103		0.85	0.77	NO	9.4

*E*

PP

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
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PF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
37	Total-pentafurans	339.8597	29.29	1772.819	0.927	0.190		1.55	1.55	NO	6.1
37	Total-pentafurans	339.8597	32.81	4116.109	0.927	0.442		1.16	1.55	YES	8.3
3	23478-PeCDF	339.8597	31.78	465444.640	0.943	51.384	51.384	1.57	1.55	NO	1071.2
37	Total-pentafurans	339.8597	30.63	16183.382	0.927	1.736		1.23	1.55	YES	29.7
2	12378-PeCDF	339.8597	30.43	468932.547	0.912	49.006	49.006	1.49	1.55	NO	1064.2
37	Total-pentafurans	339.8597	30.07	1366.058	0.927	0.147		1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	29.35	3305.710	0.927	0.355		1.39	1.55	NO	7.8

*R*

HF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
5	234678-HxCDF	373.8208	36.55	400900.297	1.073	54.460	54.460	1.24	1.24	NO	1121.7
38	Total-hexafurans	373.8208	35.98	539.384	1.062	0.070		1.99	1.24	YES	3.2
38	Total-hexafurans	373.8208	35.81	2928.512	1.062	0.382		13.25	1.24	YES	11.5
6	123678-HxCDF	373.8208	35.61	435796.937	1.056	49.987	49.987	1.22	1.24	NO	1174.5
4	123478-HxCDF	373.8208	35.45	403836.641	1.101	50.094	50.094	1.21	1.24	NO	1162.5
7	123789-HxCDF	373.8208	37.68	332171.922	1.017	50.787	50.787	1.22	1.24	NO	971.7

*R*

HPF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
8	1234678-HpCDF	407.7818	39.76	391523.047	1.238	54.561	54.561	0.98	1.05	NO	985.1
9	1234789-HpCDF	407.7818	42.50	290693.797	1.224	52.125	52.125	1.01	1.05	NO	612.0
39	Total-heptafurans	407.7818	40.55	1723.823	1.231	0.271		0.68	1.05	YES	3.9

*R*



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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
35	Total-tetrafurans	303.9016	27.45	239.160	0.921	0.018		0.59	0.77	YES	2.9
35	Total-tetrafurans	303.9016	26.56	448.065	0.921	0.035		0.45	0.77	YES	3.8
1	2378-TCDF	303.9016	26.29	125172.746	0.921	9.674	9.674	0.75	0.77	NO	691.6
35	Total-tetrafurans	303.9016	25.36	876.535	0.921	0.068		0.71	0.77	NO	5.0
35	Total-tetrafurans	303.9016	25.18	1208.434	0.921	0.093		0.23	0.77	YES	5.3
35	Total-tetrafurans	303.9016	25.05	1335.184	0.921	0.103		0.85	0.77	NO	9.4
37	Total-pentafurans	339.8597	29.29	1772.819	0.927	0.190		1.55	1.55	NO	6.1
37	Total-pentafurans	339.8597	32.81	4116.109	0.927	0.442		1.16	1.55	YES	8.3
3	23478-PeCDF	339.8597	31.78	465444.640	0.943	51.384	51.384	1.57	1.55	NO	1071.2
37	Total-pentafurans	339.8597	30.63	16183.382	0.927	1.736		1.23	1.55	YES	29.7
2	12378-PeCDF	339.8597	30.43	468932.547	0.912	49.006	49.006	1.49	1.55	NO	1064.2
37	Total-pentafurans	339.8597	30.07	1366.058	0.927	0.147		1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	29.35	3305.710	0.927	0.355		1.39	1.55	NO	7.8
5	234678-HxCDF	373.8208	36.55	400900.297	1.073	54.460	54.460	1.24	1.24	NO	1121.7
38	Total-hexafurans	373.8208	35.98	539.384	1.062	0.070		1.99	1.24	YES	3.2
38	Total-hexafurans	373.8208	35.81	2928.512	1.062	0.382		13.25	1.24	YES	11.5
6	123678-HxCDF	373.8208	35.61	435796.937	1.056	49.987	49.987	1.22	1.24	NO	1174.5
4	123478-HxCDF	373.8208	35.45	403836.641	1.101	50.094	50.094	1.21	1.24	NO	1162.5
7	123789-HxCDF	373.8208	37.68	332171.922	1.017	50.787	50.787	1.22	1.24	NO	971.7
8	1234678-HpCDF	407.7818	39.76	391523.047	1.238	54.561	54.561	0.98	1.05	NO	985.1
9	1234789-HpCDF	407.7818	42.50	290693.797	1.224	52.125	52.125	1.01	1.05	NO	612.0
39	Total-heptafurans	407.7818	40.55	1723.823	1.231	0.271		0.68	1.05	YES	3.9
10	OCDF	441.7428	47.88	454885.687	1.162	96.515	96.515	0.87	0.89	NO	1254.8

TD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
41	Total-tetradioxins	319.8965	27.48	438.712	1.106	0.045		0.73	0.77	NO	3.6
11	2378-TCDD	319.8965	26.93	88763.367	1.106	9.171	9.171	0.74	0.77	NO	389.9
41	Total-tetradioxins	319.8965	26.56	2467.655	1.106	0.255		0.39	0.77	YES	8.9

*Rz*

PD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
42	Total-pentadioxins	355.8546	32.51	829.809	1.001	0.129		0.74	1.55	YES	5.0
42	Total-pentadioxins	355.8546	32.26	2517.717	1.001	0.392		0.67	1.55	YES	8.3
42	Total-pentadioxins	355.8546	32.16	3826.197	1.001	0.596		2.94	1.55	YES	19.1
12	12378-PeCDD	355.8546	32.03	323675.578	1.001	50.449	50.449	1.55	1.55	NO	1359.5

*Rz*

HD

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
15	123789-HxCDD	389.8157	37.24	284486.250	0.904	49.307	49.307	1.22	1.24	NO	954.6
43	Total-hexadioxins	389.8157	37.02	641.682	0.937	0.107		3.61	1.24	YES	8.6
14	123678-HxCDD	389.8157	36.81	305703.407	0.929	49.780	49.780	1.26	1.24	NO	996.9
13	123478-HxCDD	389.8157	36.68	297469.079	0.978	49.457	49.457	1.22	1.24	NO	1040.2
43	Total-hexadioxins	389.8157	35.73	304.754	0.937	0.051		1.99	1.24	YES	2.4

*Rz*

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HPD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
16	1234678-HpCDD	423.7766	41.59	258925.868	1.029	48.226	48.226	1.05	1.05	NO	613.4
44	Total-heptadioxins	423.7766	40.30	4190.779	1.029	0.781		0.93	1.05	NO	9.7

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
41	Total-tetradoxins	319.8965	27.48	438.712	1.106	0.045		0.73	0.77	NO	3.6
11	2378-TCDD	319.8965	26.93	88763.367	1.106	9.171	9.171	0.74	0.77	NO	389.9
41	Total-tetradoxins	319.8965	26.56	2467.655	1.106	0.255		0.39	0.77	YES	8.9
42	Total-pentadoxins	355.8546	32.51	829.809	1.001	0.129		0.74	1.55	YES	5.0
42	Total-pentadoxins	355.8546	32.26	2517.717	1.001	0.392		0.67	1.55	YES	8.3
42	Total-pentadoxins	355.8546	32.16	3826.197	1.001	0.596		2.94	1.55	YES	19.1
12	12378-PeCDD	355.8546	32.03	323675.578	1.001	50.449	50.449	1.55	1.55	NO	1359.5
15	123789-HxCDD	389.8157	37.24	284486.250	0.904	49.307	49.307	1.22	1.24	NO	954.6
43	Total-hexadoxins	389.8157	37.02	641.682	0.937	0.107		3.61	1.24	YES	8.6
14	123678-HxCDD	389.8157	36.81	305703.407	0.929	49.780	49.780	1.26	1.24	NO	996.9
13	123478-HxCDD	389.8157	36.68	297469.079	0.978	49.457	49.457	1.22	1.24	NO	1040.2
43	Total-hexadoxins	389.8157	35.73	304.754	0.937	0.051		1.99	1.24	YES	2.4
16	1234678-HpCDD	423.7766	41.59	258925.868	1.029	48.226	48.226	1.05	1.05	NO	613.4
44	Total-heptadoxins	423.7766	40.30	4190.779	1.029	0.781		0.93	1.05	NO	9.7
17	OCDD	457.7377	47.59	395463.157	1.011	96.421	96.421	0.87	0.89	NO	917.7

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	PRF M...	pg	EMPC	1 <sup>st</sup> Ref.	1 <sup>st</sup> Ref.	1 <sup>st</sup> R.	S/N
35	Total-tetrafurans	303.9016	27.45	239.160	0.921	0.018		0.59	0.77	YES	2.9
35	Total-tetrafurans	303.9016	26.56	448.065	0.921	0.035		0.45	0.77	YES	3.8
1	2378-TCDF	303.9016	26.29	125172.746	0.921	9.674	9.674	0.75	0.77	NO	691.6
35	Total-tetrafurans	303.9016	25.36	876.535	0.921	0.068		0.71	0.77	NO	5.0
35	Total-tetrafurans	303.9016	25.18	1208.434	0.921	0.093		0.23	0.77	YES	5.3
35	Total-tetrafurans	303.9016	25.05	1335.184	0.921	0.103		0.85	0.77	NO	9.4
37	Total-pentafurans	339.8597	29.29	1772.819	0.927	0.190		1.55	1.55	NO	6.1
37	Total-pentafurans	339.8597	32.81	4116.109	0.927	0.442		1.16	1.55	YES	8.3
3	23478-PeCDF	339.8597	31.78	465444.640	0.943	51.384	51.384	1.57	1.55	NO	1071.2
37	Total-pentafurans	339.8597	30.63	16183.382	0.927	1.736		1.23	1.55	YES	29.7
2	12378-PeCDF	339.8597	30.43	468932.547	0.912	49.006	49.006	1.49	1.55	NO	1064.2
37	Total-pentafurans	339.8597	30.07	1366.058	0.927	0.147		1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	29.35	3305.710	0.927	0.355		1.39	1.55	NO	7.8
5	234678-HxCDF	373.8208	36.55	400900.297	1.073	54.460	54.460	1.24	1.24	NO	1121.7
38	Total-hexa furans	373.8208	35.98	539.384	1.062	0.070		1.99	1.24	YES	3.2
38	Total-hexa furans	373.8208	35.81	2928.512	1.062	0.382		13.25	1.24	YES	11.5
6	123678-HxCDF	373.8208	35.61	435796.937	1.056	49.987	49.987	1.22	1.24	NO	1174.5
4	123478-HxCDF	373.8208	35.45	403836.641	1.101	50.094	50.094	1.21	1.24	NO	1162.5
7	123789-HxCDF	373.8208	37.68	332171.922	1.017	50.787	50.787	1.22	1.24	NO	971.7
8	1234678-HpCDF	407.7818	39.76	391523.047	1.238	54.561	54.561	0.98	1.05	NO	985.1
9	1234789-HpCDF	407.7818	42.50	290693.797	1.224	52.125	52.125	1.01	1.05	NO	612.0
39	Total-hepta furans	407.7818	40.55	1723.823	1.231	0.271		0.68	1.05	YES	3.9
10	OCDF	441.7428	47.88	454885.687	1.162	96.515	96.515	0.87	0.89	NO	1254.8
41	Total-tetradiioxins	319.8965	27.48	438.712	1.106	0.045		0.73	0.77	NO	3.6
11	2378-TCDD	319.8965	26.93	88763.367	1.106	9.171	9.171	0.74	0.77	NO	389.9
41	Total-tetradiioxins	319.8965	26.56	2467.655	1.106	0.255		0.39	0.77	YES	8.9
42	Total-pentadiioxins	355.8546	32.51	829.809	1.001	0.129		0.74	1.55	YES	5.0
42	Total-pentadiioxins	355.8546	32.26	2517.717	1.001	0.392		0.67	1.55	YES	8.3
42	Total-pentadiioxins	355.8546	32.16	3826.197	1.001	0.596		2.94	1.55	YES	19.1
12	12378-PeCDD	355.8546	32.03	323675.578	1.001	50.449	50.449	1.55	1.55	NO	1359.5
15	123789-HxCDD	389.8157	37.24	284486.250	0.904	49.307	49.307	1.22	1.24	NO	954.6
43	Total-hexadiioxins	389.8157	37.02	641.682	0.937	0.107		3.61	1.24	YES	8.6
14	123678-HxCDD	389.8157	36.81	305703.407	0.929	49.780	49.780	1.26	1.24	NO	996.9
13	123478-HxCDD	389.8157	36.68	297469.079	0.978	49.457	49.457	1.22	1.24	NO	1040.2
43	Total-hexadiioxins	389.8157	35.73	304.754	0.937	0.051		1.99	1.24	YES	2.4
16	1234678-HpCDD	423.7766	41.59	258925.868	1.029	48.226	48.226	1.05	1.05	NO	613.4
44	Total-heptadiioxins	423.7766	40.30	4190.779	1.029	0.781		0.93	1.05	NO	9.7
17	OCDD	457.7377	47.59	395463.157	1.011	96.421	96.421	0.87	0.89	NO	917.7

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PFK1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
48	FUNCTION1 PFK	330.9792	22.69	0.000							7.5
48	FUNCTION1 PFK	330.9792	22.40	0.000							18.3
48	FUNCTION1 PFK	330.9792	21.94	0.000							36.0
48	FUNCTION1 PFK	330.9792	21.82	0.000							38.8
48	FUNCTION1 PFK	330.9792	21.63	0.000							45.8
48	FUNCTION1 PFK	330.9792	21.45	0.000							49.1
48	FUNCTION1 PFK	330.9792	28.39	0.000							1.2
48	FUNCTION1 PFK	330.9792	28.30	0.000							2.4
48	FUNCTION1 PFK	330.9792	28.15	0.000							2.2
48	FUNCTION1 PFK	330.9792	27.20	0.000							1.0
48	FUNCTION1 PFK	330.9792	26.59	0.000							3.3
48	FUNCTION1 PFK	330.9792	26.45	0.000							0.7
48	FUNCTION1 PFK	330.9792	26.32	0.000							3.1
48	FUNCTION1 PFK	330.9792	26.23	0.000							3.1
48	FUNCTION1 PFK	330.9792	25.99	0.000							3.2
48	FUNCTION1 PFK	330.9792	25.76	0.000							1.4
48	FUNCTION1 PFK	330.9792	25.42	0.000							3.6
48	FUNCTION1 PFK	330.9792	24.97	0.000							2.5
48	FUNCTION1 PFK	330.9792	24.70	0.000							1.0
48	FUNCTION1 PFK	330.9792	24.52	0.000							5.1
48	FUNCTION1 PFK	330.9792	23.37	0.000							4.0

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
49	FUNCTION2 PFK	366.9792	31.42	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	30.87	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.67	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	30.41	0.000		0.000					1.8
49	FUNCTION2 PFK	366.9792	30.18	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.11	0.000		0.000					1.8
49	FUNCTION2 PFK	366.9792	29.89	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	29.63	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	29.59	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	29.29	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	29.15	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	29.09	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	29.04	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	28.97	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	28.90	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.69	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	32.88	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	32.25	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	32.11	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	32.08	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	31.71	0.000		0.000					2.4
49	FUNCTION2 PFK	366.9792	31.46	0.000		0.000					0.8

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PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	S/N
50	FUNCTION3 PFK	380.9760	35.30	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	34.85	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	34.49	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	34.36	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	33.97	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	33.94	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	33.77	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	33.68	0.000		0.000					0.5
50	FUNCTION3 PFK	380.9760	33.23	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	37.36	0.000		0.000					0.7
50	FUNCTION3 PFK	380.9760	37.17	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	37.13	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	37.06	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	36.92	0.000		0.000					0.5
50	FUNCTION3 PFK	380.9760	36.71	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	36.51	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	36.42	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	36.38	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	36.23	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	36.20	0.000		0.000					1.6
50	FUNCTION3 PFK	380.9760	35.80	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	35.76	0.000		0.000					1.0
50	FUNCTION3 PFK	380.9760	35.67	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	35.63	0.000		0.000					2.4
50	FUNCTION3 PFK	380.9760	35.39	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	38.61	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	38.51	0.000		0.000					1.0
50	FUNCTION3 PFK	380.9760	38.27	0.000		0.000					1.1
50	FUNCTION3 PFK	380.9760	38.05	0.000		0.000					1.4
50	FUNCTION3 PFK	380.9760	37.98	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	37.85	0.000		0.000					1.8
50	FUNCTION3 PFK	380.9760	37.80	0.000		0.000					1.9
50	FUNCTION3 PFK	380.9760	37.71	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	37.62	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	37.40	0.000		0.000					0.4

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

PFK4

#	Name	Trace	RT	Abs. Resp	PFK M...	pg	EMPC	1° Ret.	1° Ret.	1° R.	SN
51	FUNCTION4 PFK	430.9728	40.22	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.18	0.000							1.5
51	FUNCTION4 PFK	430.9728	39.97	0.000							0.7
51	FUNCTION4 PFK	430.9728	39.76	0.000							2.0
51	FUNCTION4 PFK	430.9728	39.41	0.000							0.9
51	FUNCTION4 PFK	430.9728	44.34	0.000							1.8
51	FUNCTION4 PFK	430.9728	44.31	0.000							2.0
51	FUNCTION4 PFK	430.9728	44.22	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.17	0.000							0.6
51	FUNCTION4 PFK	430.9728	44.12	0.000							1.0
51	FUNCTION4 PFK	430.9728	43.87	0.000							1.7
51	FUNCTION4 PFK	430.9728	42.71	0.000							1.1
51	FUNCTION4 PFK	430.9728	40.67	0.000							1.6
51	FUNCTION4 PFK	430.9728	40.36	0.000							0.6

Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

PFK5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
52	FUNCTION5 PFK	480.9696	45.62	0.000							0.4
52	FUNCTION5 PFK	480.9696	45.55	0.000							0.6
52	FUNCTION5 PFK	480.9696	45.51	0.000							1.1
52	FUNCTION5 PFK	480.9696	45.32	0.000							0.6
52	FUNCTION5 PFK	480.9696	45.15	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.10	0.000							1.8
52	FUNCTION5 PFK	480.9696	47.46	0.000							0.3
52	FUNCTION5 PFK	480.9696	47.29	0.000							0.6
52	FUNCTION5 PFK	480.9696	47.25	0.000							1.8
52	FUNCTION5 PFK	480.9696	47.17	0.000							0.5
52	FUNCTION5 PFK	480.9696	47.15	0.000							1.2
52	FUNCTION5 PFK	480.9696	47.07	0.000							1.4
52	FUNCTION5 PFK	480.9696	47.02	0.000							1.3
52	FUNCTION5 PFK	480.9696	46.97	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.81	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.79	0.000							1.3
52	FUNCTION5 PFK	480.9696	46.63	0.000							0.4
52	FUNCTION5 PFK	480.9696	46.31	0.000							1.4
52	FUNCTION5 PFK	480.9696	46.26	0.000							1.6
52	FUNCTION5 PFK	480.9696	46.21	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.19	0.000							0.6
52	FUNCTION5 PFK	480.9696	45.99	0.000							1.2
52	FUNCTION5 PFK	480.9696	49.53	0.000							1.2
52	FUNCTION5 PFK	480.9696	49.48	0.000							1.1
52	FUNCTION5 PFK	480.9696	49.35	0.000							1.5
52	FUNCTION5 PFK	480.9696	49.30	0.000							0.8
52	FUNCTION5 PFK	480.9696	49.24	0.000							0.8
52	FUNCTION5 PFK	480.9696	49.20	0.000							1.5
52	FUNCTION5 PFK	480.9696	49.00	0.000							1.3
52	FUNCTION5 PFK	480.9696	48.93	0.000							2.3
52	FUNCTION5 PFK	480.9696	48.81	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.61	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.48	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.44	0.000							0.9
52	FUNCTION5 PFK	480.9696	48.16	0.000							1.1

ETHERS1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
53	FUNCTION1 HXCD...	375.8364	27.21	0.000		0.000					6.2
53	FUNCTION1 HXCD...	375.8364	26.05	0.000		0.000					6.0

Dataset: P:\DIOXIN8290.PRO\130305QC.qid  
 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

D: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

ETHERS2

#	Name	Trace	RT	Abs Resp	RRFM	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
54	FUNCTION1 HPCD...	409.7974	28.23	0.000		0.000					1.4
54	FUNCTION1 HPCD...	409.7974	27.38	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	26.84	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	24.75	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	24.20	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	23.48	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	23.19	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	23.00	0.000		0.000					2.2
54	FUNCTION1 HPCD...	409.7974	21.52	0.000		0.000					2.3
54	FUNCTION1 HPCD...	409.7974	21.10	0.000		0.000					2.6

ETHERS3

#	Name	Trace	RT	Abs Resp	RRFM	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
55	FUNCTION2 HPCD...	409.7974	30.21	0.000		0.000					1.5
55	FUNCTION2 HPCD...	409.7974	30.07	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	29.81	0.000		0.000					4.4
55	FUNCTION2 HPCD...	409.7974	29.15	0.000		0.000					3.2
55	FUNCTION2 HPCD...	409.7974	32.89	0.000		0.000					2.4
55	FUNCTION2 HPCD...	409.7974	32.24	0.000		0.000					1.8
55	FUNCTION2 HPCD...	409.7974	31.76	0.000		0.000					2.5
55	FUNCTION2 HPCD...	409.7974	31.69	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	31.29	0.000		0.000					2.8
55	FUNCTION2 HPCD...	409.7974	31.20	0.000		0.000					3.1
55	FUNCTION2 HPCD...	409.7974	30.48	0.000		0.000					2.0
55	FUNCTION2 HPCD...	409.7974	30.31	0.000		0.000					1.6

ETHERS4

#	Name	Trace	RT	Abs Resp	RRFM	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
56	FUNCTION3 OCDPE	445.7555	33.95	0.000		0.000					5.2

ETHERS5

#	Name	Trace	RT	Abs Resp	RRFM	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
57	FUNCTION4 NCDPE	479.7165	43.90	0.000		0.000					5.1

ETHERS6

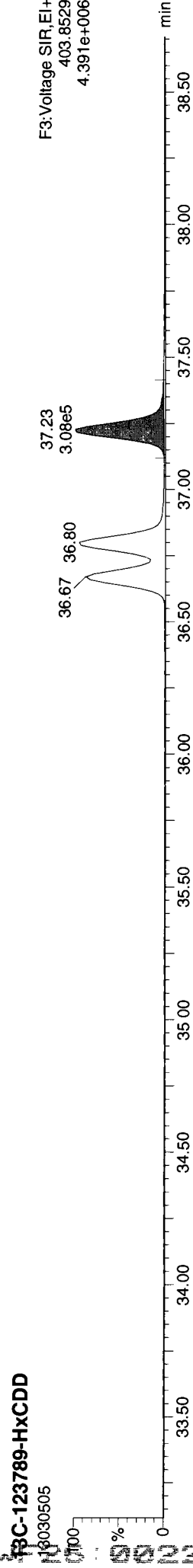
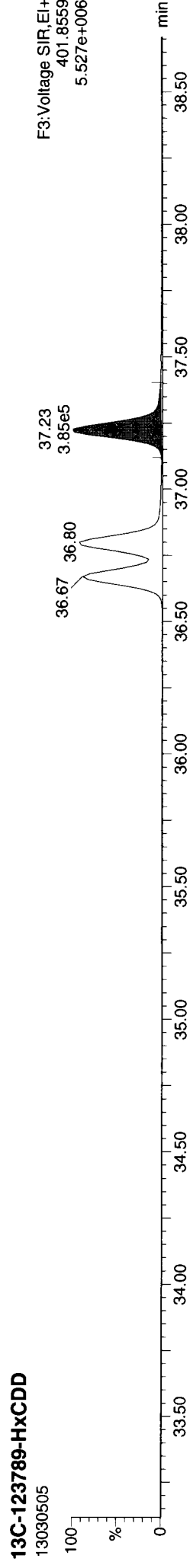
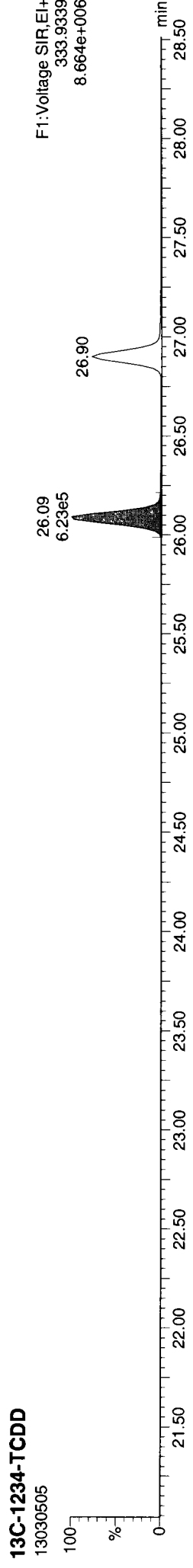
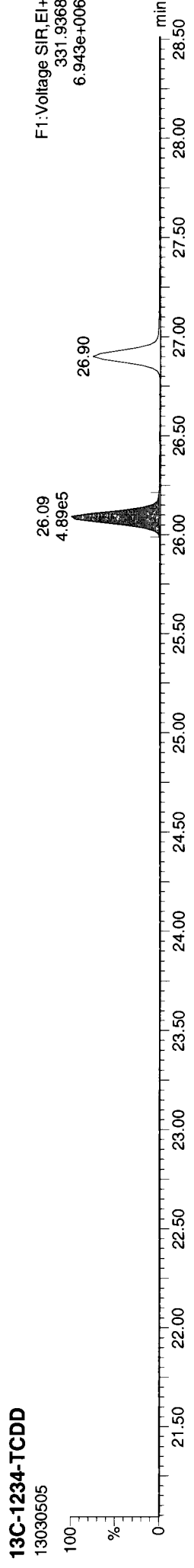
#	Name	Trace	RT	Abs Resp	RRFM	pg	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
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**Quantify Sample Report**      **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

**Method:** P:\DIOXIN8290.PRO\MethDB\Dioxin\130304.mdb 04 Mar 2013 13:54:03  
**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

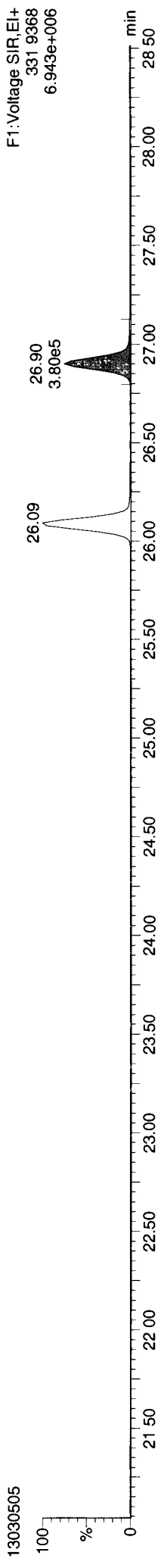
**ID:** WF26OPR, **Name:** 13030505, **Date:** 05-Mar-2013, **Time:** 15:06:35, **Conditions:** AUTOSPEC01, **User:** pk



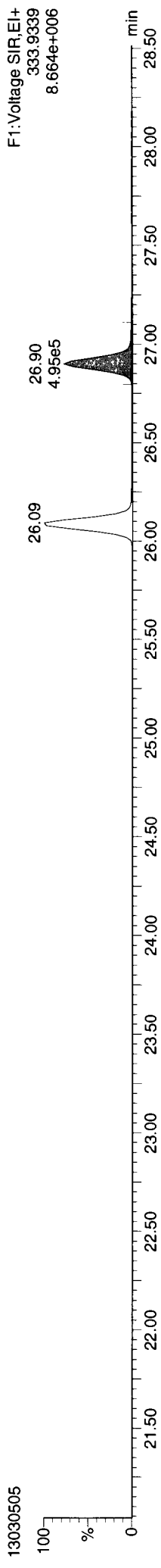
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 Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
 Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

**ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk**

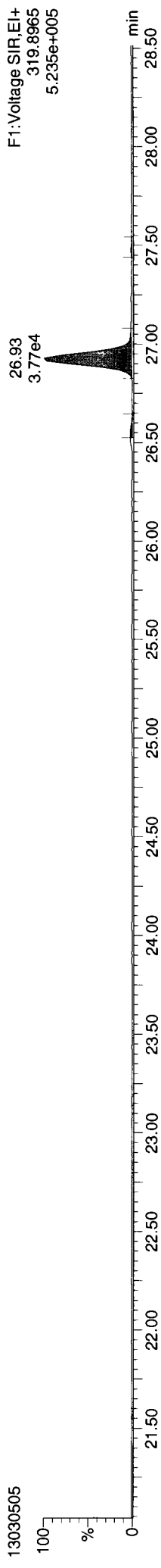
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13030505



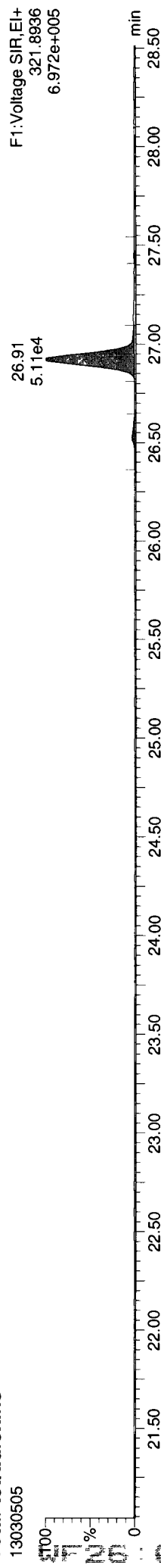
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13030505



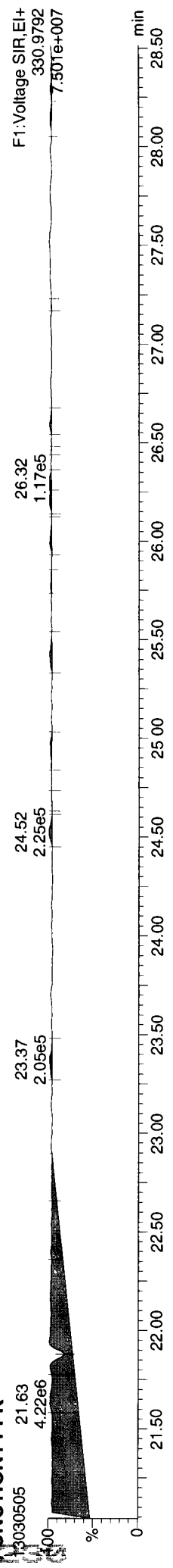
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13030505



**Total-tetradiioxins**  
13030505



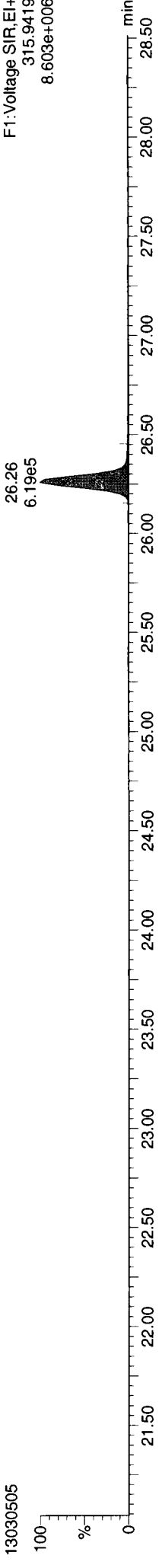
**FUNCTION1 PFK**  
13030505



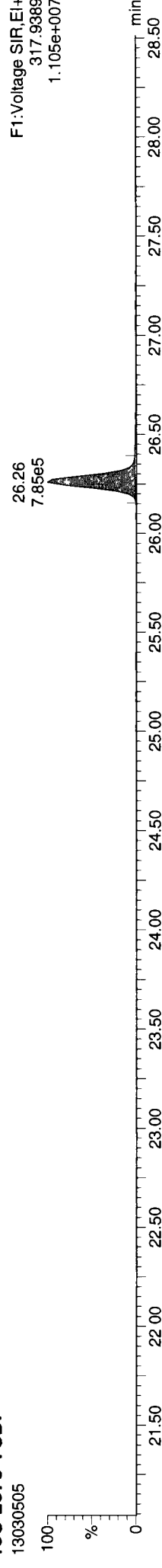
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Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

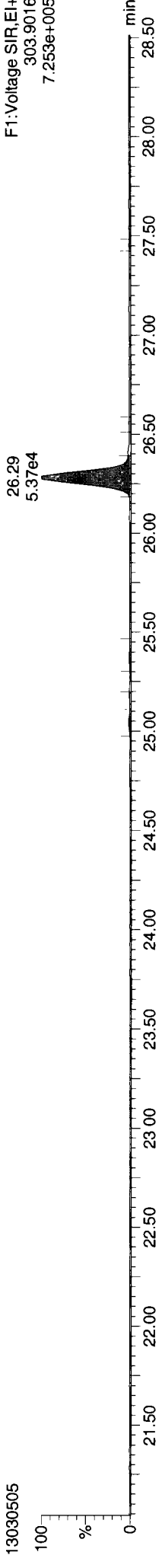
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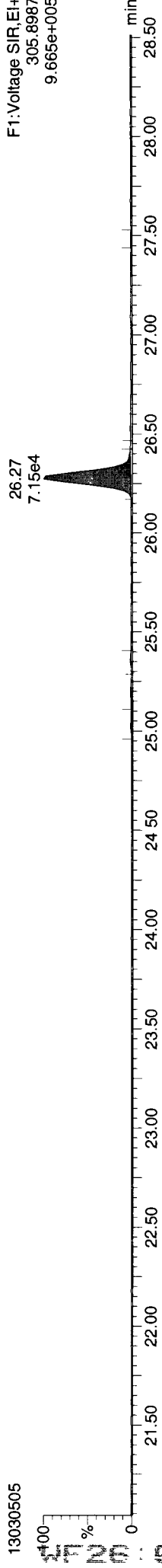
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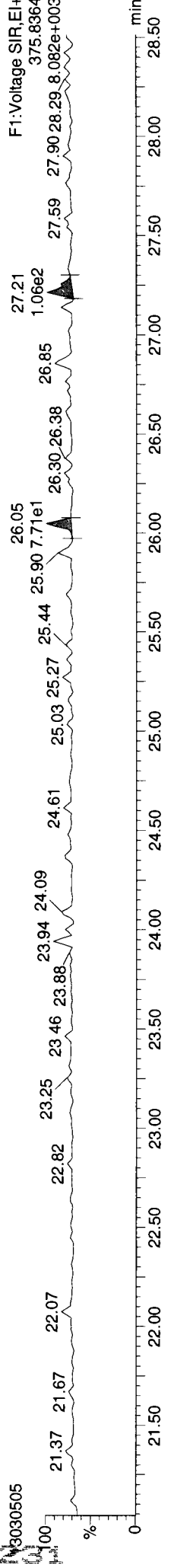
Total-tetrafurans



Total-tetrafurans



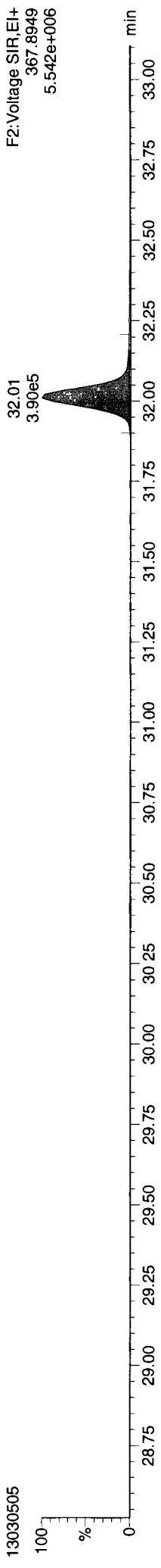
FUNCTION1 HXCDPE



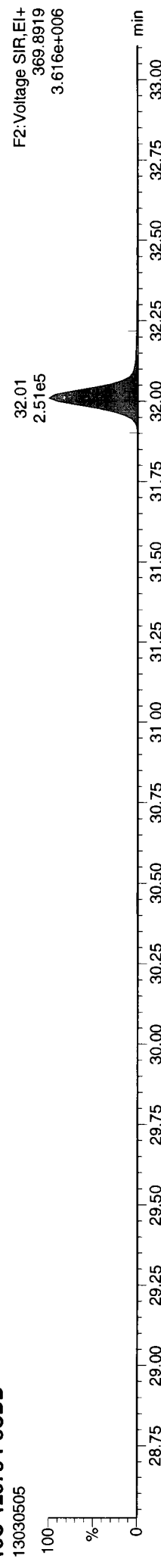
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Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

**ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk**

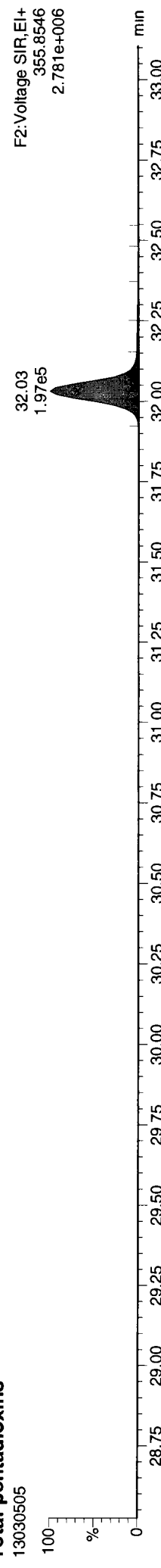
**13C-12378-PeCDD**  
13030505



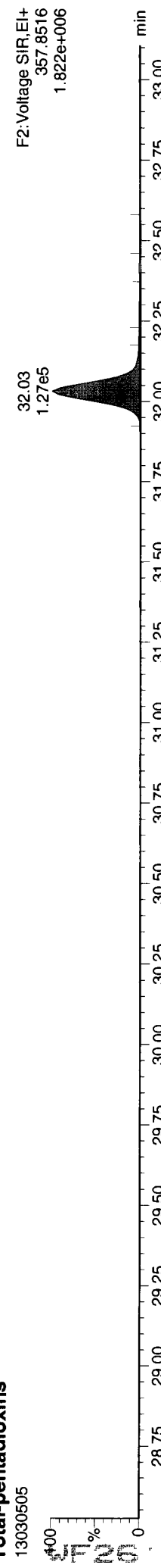
**13C-12378-PeCDD**  
13030505



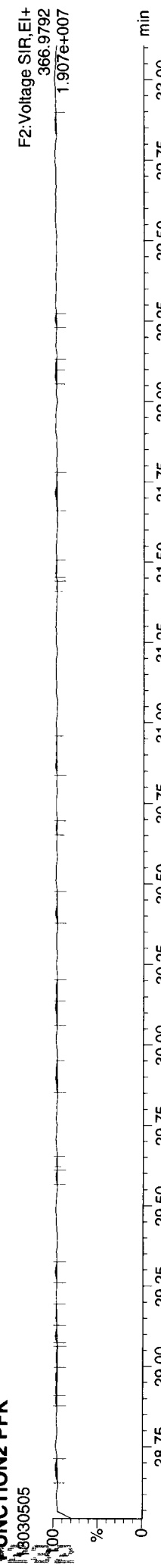
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13030505



**Total-pentadioxins**  
13030505

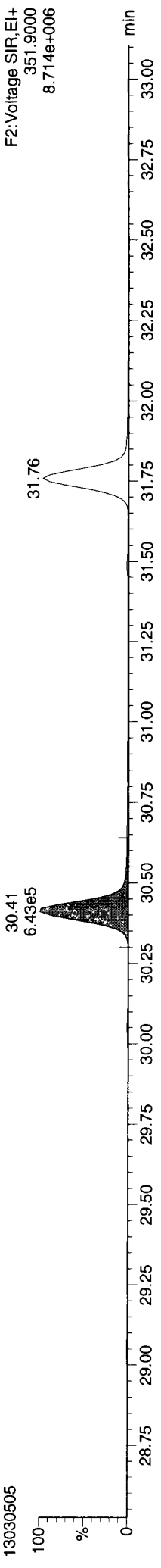


**FUNCTION2 PFK**  
13030505

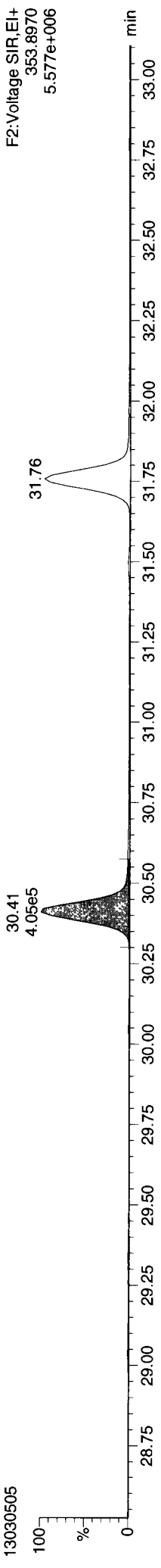


ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

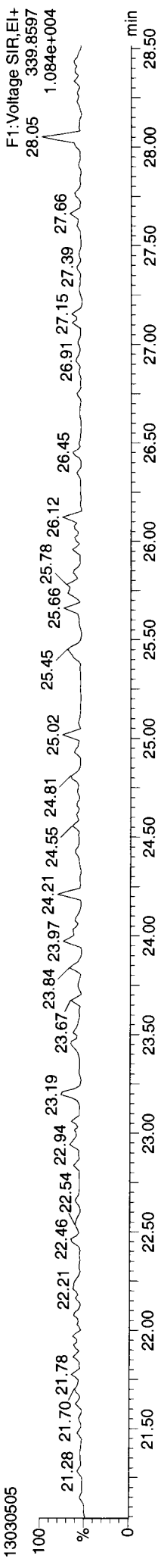
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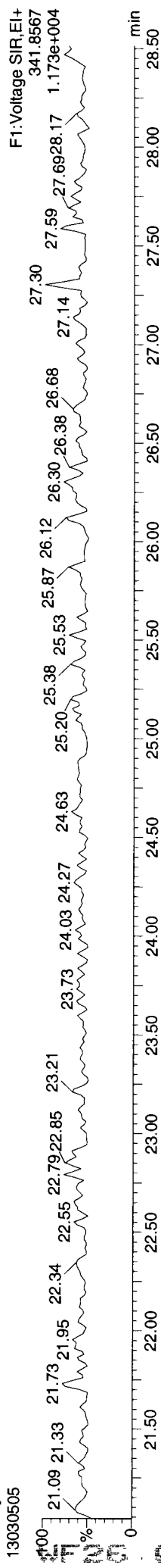
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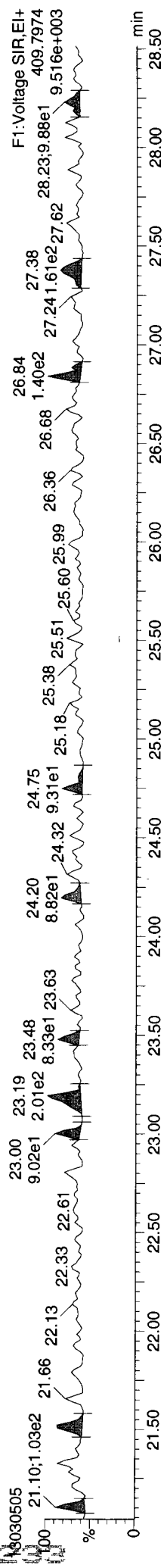
Total-penta1



Total-penta1



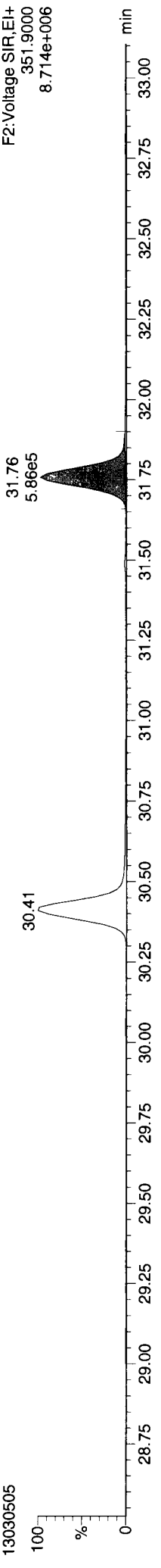
FUNCTION1 HPCDPE



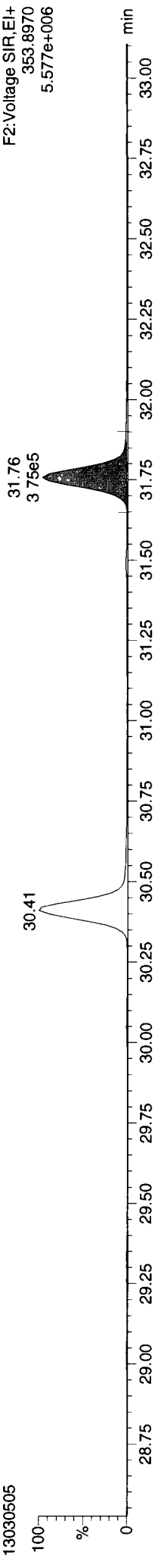
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MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

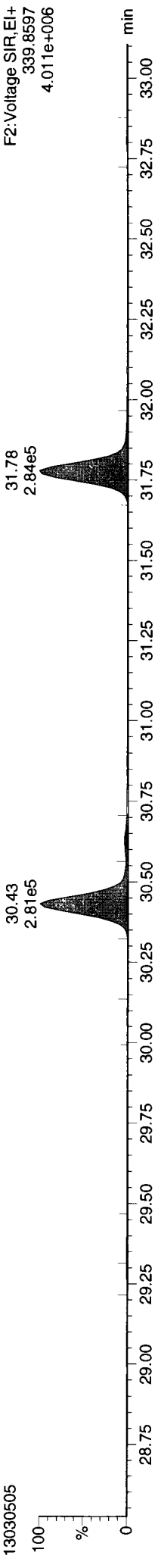
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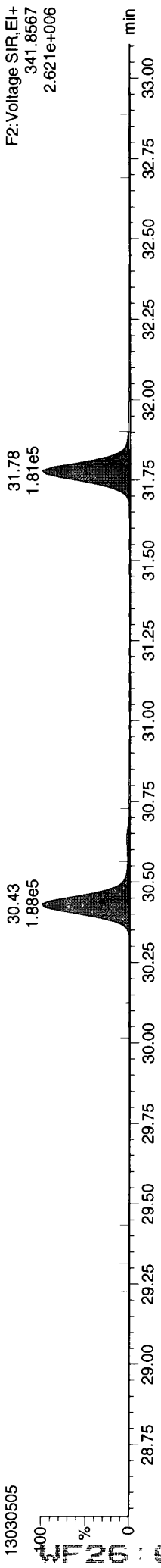
13C-23478-PeCDF



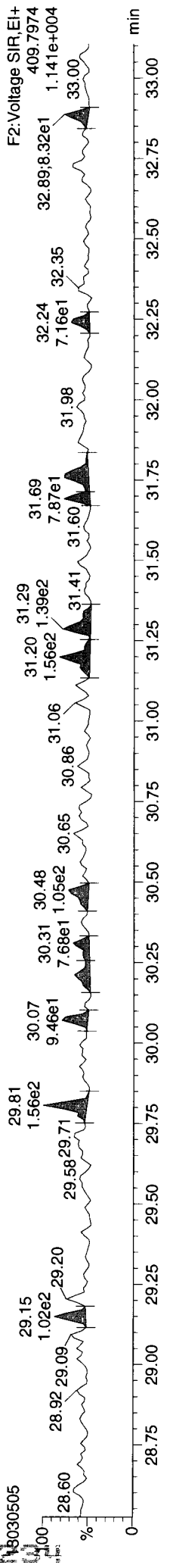
Total-pentafurans



Total-pentafurans



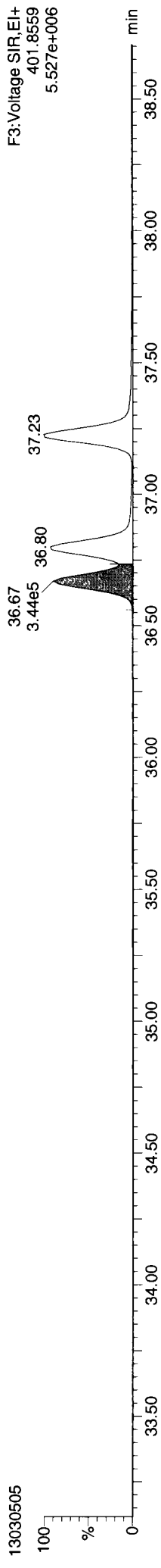
FUNCTION2 HPCDPE



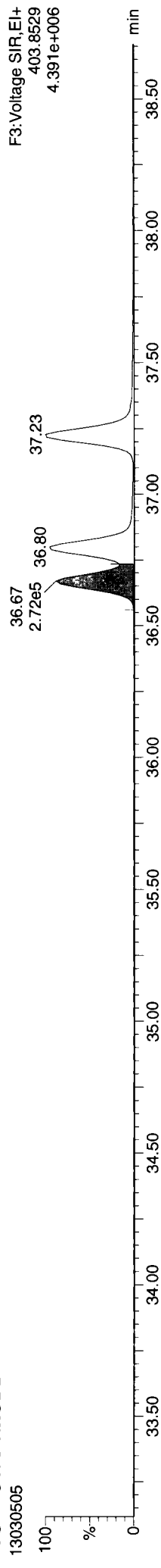
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Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

**ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk**

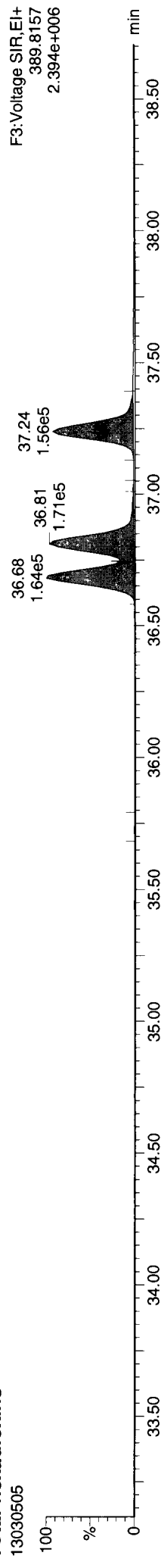
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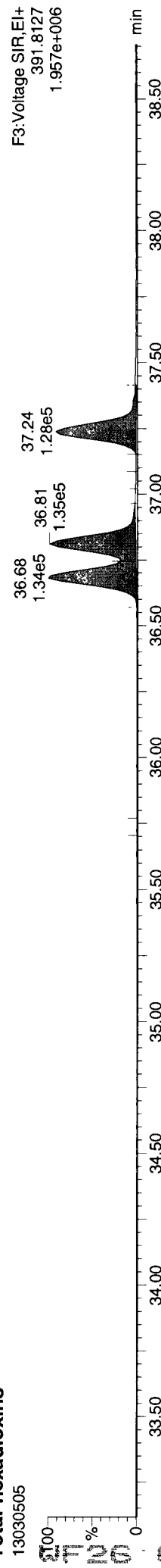
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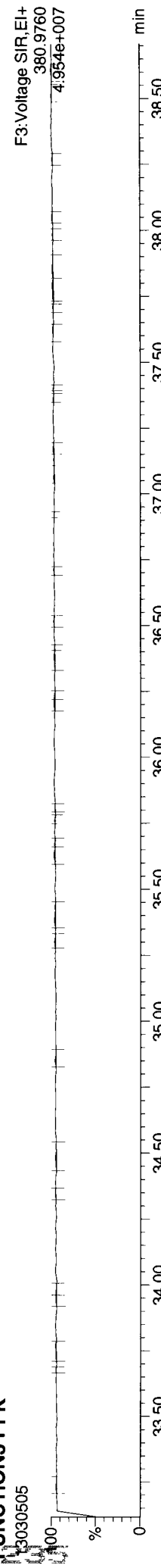
**Total-hexadioxins**



**Total-hexadioxins**



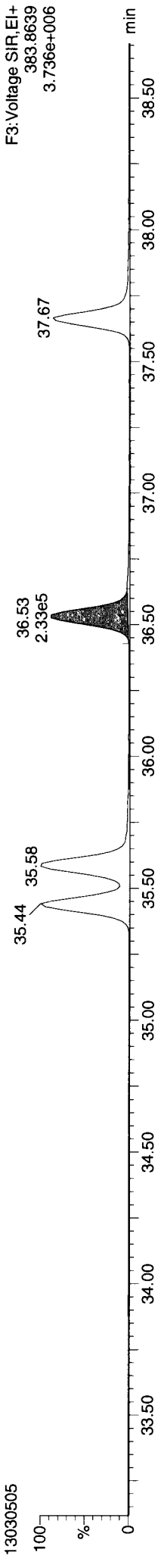
**FUNCTION3 PFK**



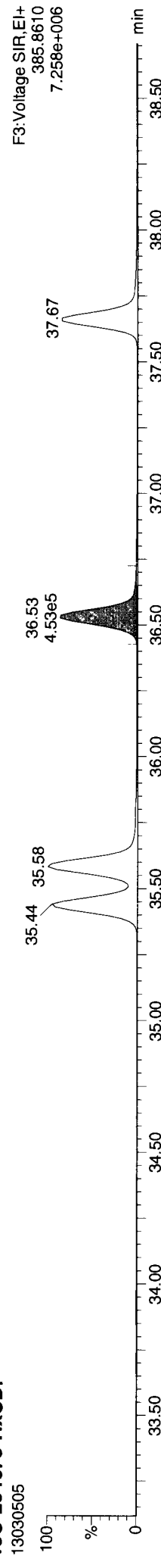
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MassLynx 4.1 SCN 714  
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Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

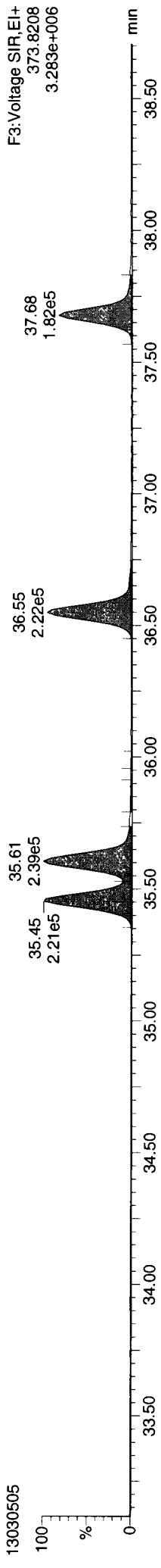
13C-234678-HxCDF



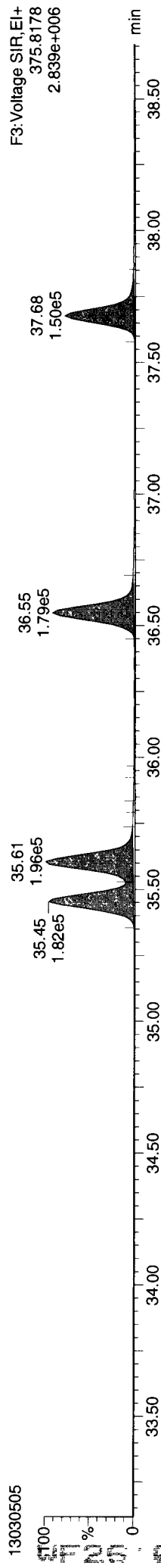
13C-234678-HxCDF



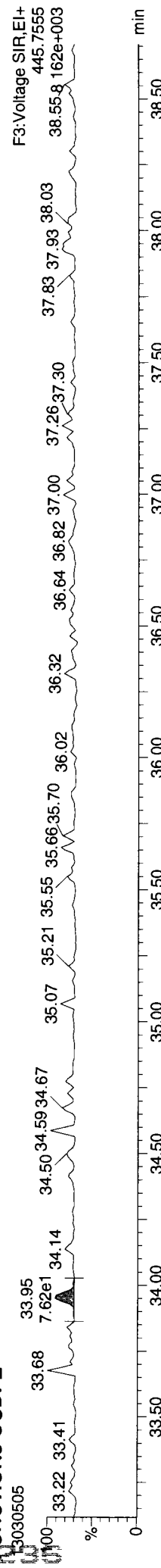
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE





Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

**13C-1234678-HpCDD**



**13C-1234678-HpCDD**



**Total-heptadioxins**



**Total-heptadioxins**



**FUNCTION4 PFK**



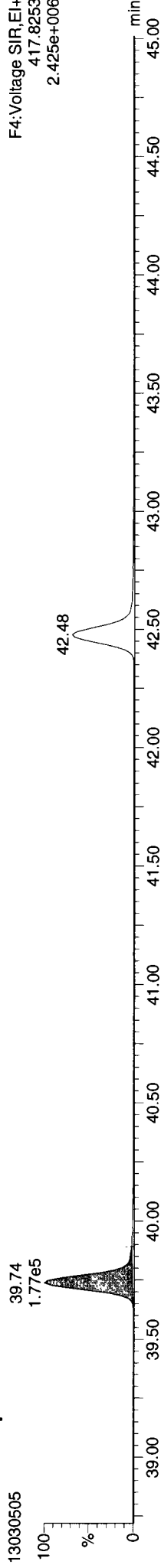
Dataset: P:\DIOXIN8290.PRO\130305QC.qid

Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time

Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

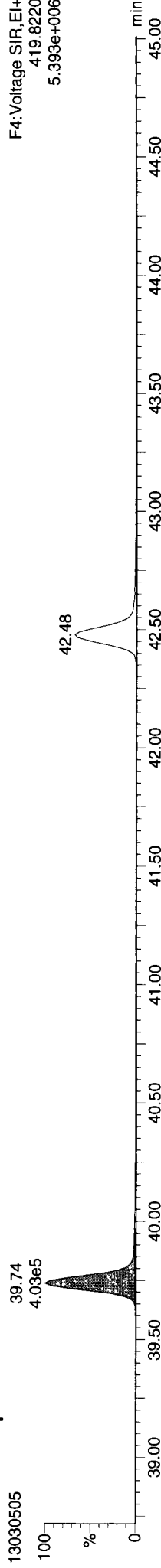
**ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk**

**13C-1234678-HpCDF**



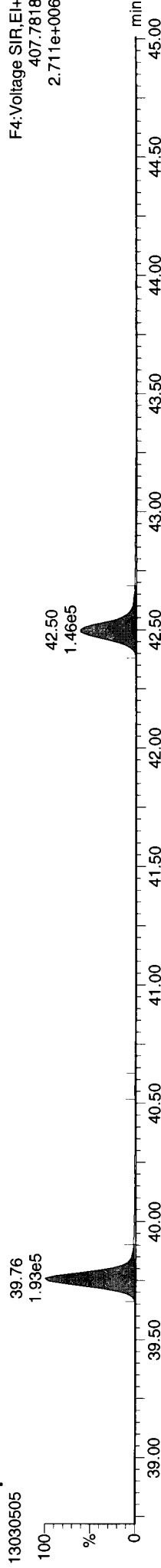
F4: Voltage SIR, EI+  
417.8253  
2.425e+006

**13C-1234678-HpCDF**



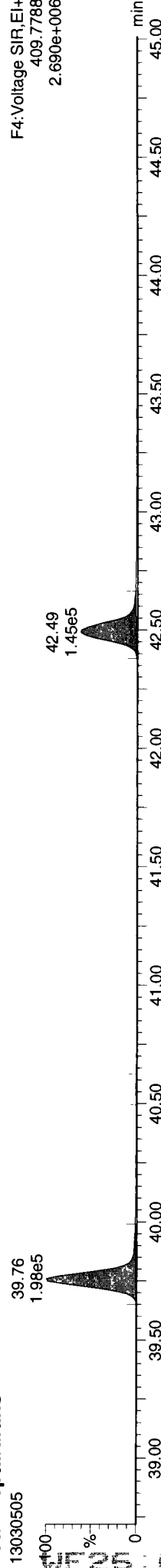
F4: Voltage SIR, EI+  
419.8220  
5.393e+006

**Total-heptafurans**



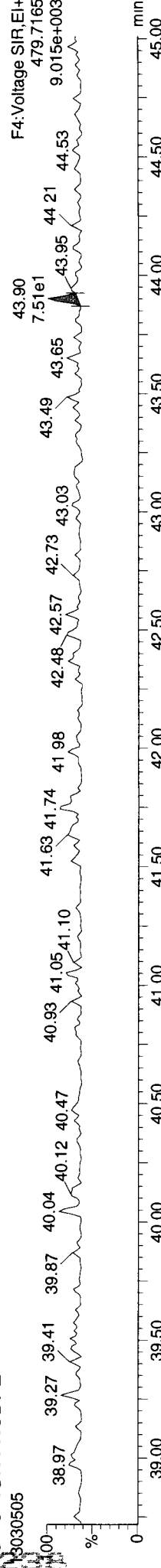
F4: Voltage SIR, EI+  
407.7818  
2.711e+006

**Total-heptafurans**



F4: Voltage SIR, EI+  
409.7788  
2.690e+006

**FUNCTION4 NCDPE**

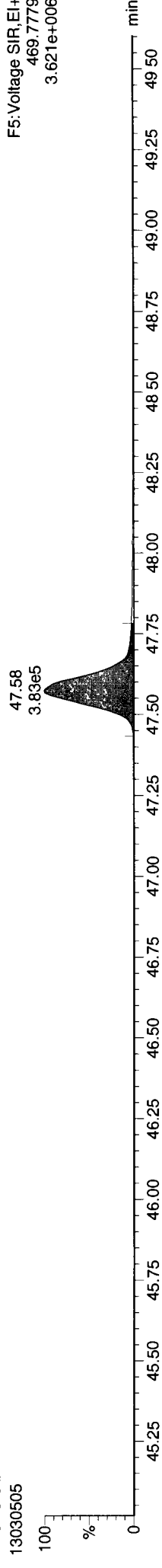


F4: Voltage SIR, EI+  
479.7165  
9.015e+003

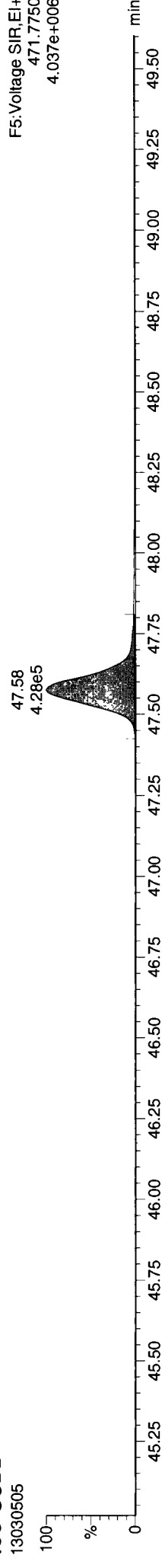
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

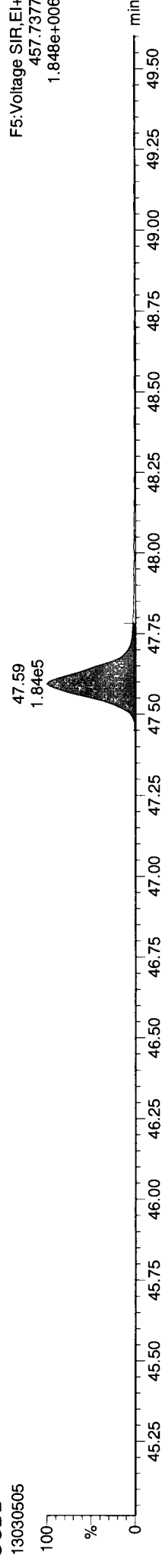
13C-OCDD



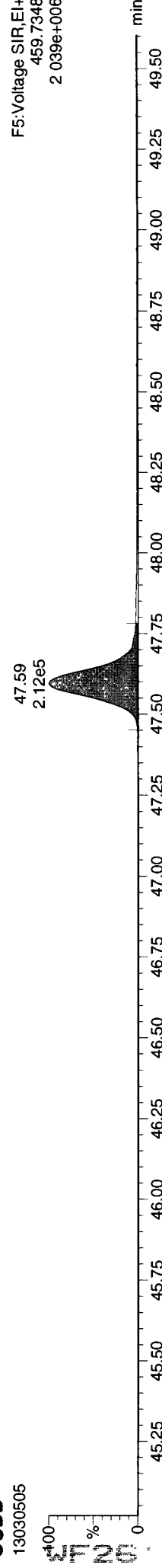
13C-OCDD



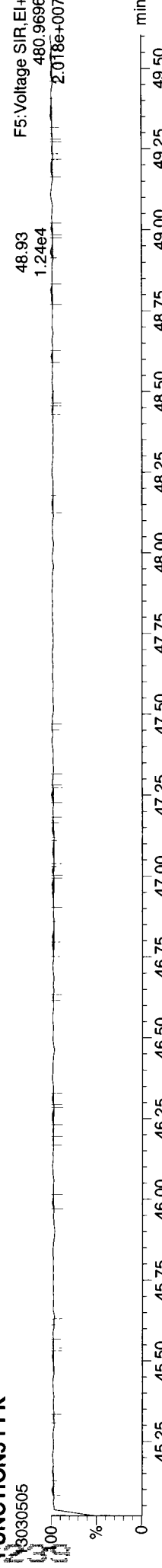
OCDD



OCDD



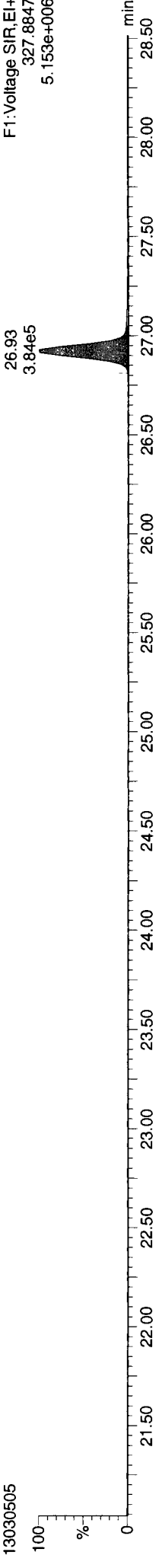
FUNCTION5 PFK



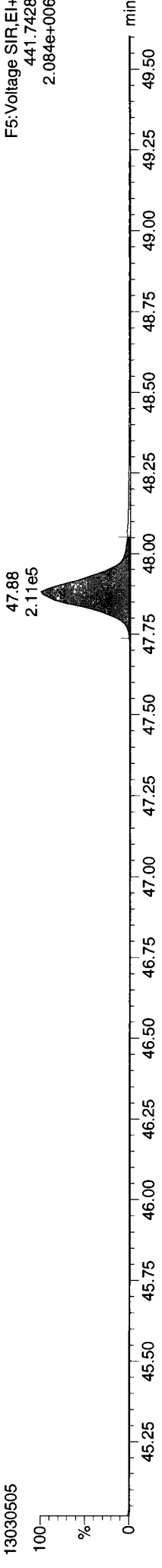
Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305QC.qld  
Last Altered: Tuesday, March 05, 2013 16:11:06 Pacific Standard Time  
Printed: Tuesday, March 05, 2013 16:12:01 Pacific Standard Time

ID: WF26OPR, Name: 13030505, Date: 05-Mar-2013, Time: 15:06:35, Conditions: AUTOSPEC01, User: pk

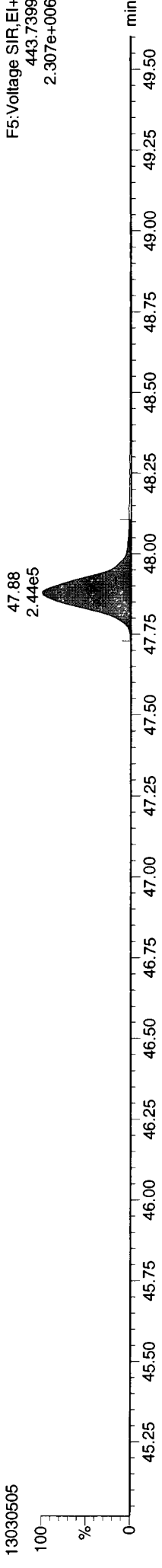
37CL-2378-TCDD



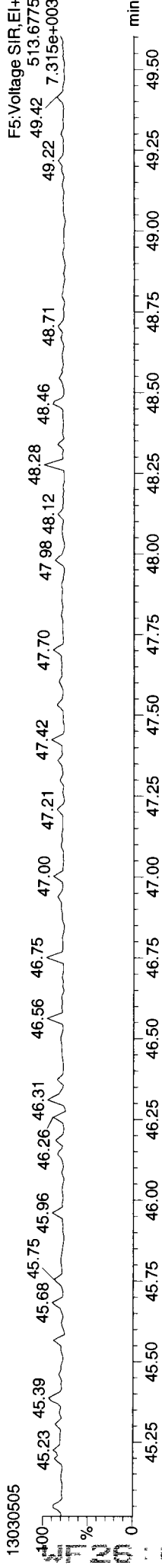
OCDF



OCDF



FUNCTION5 DCDPE



00240

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

Ms 3613

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.287	1.001	1.59e3	1.43e3	0.921	1.113	0.770	6.4	3989	3330	2.55e4	2.03e4	YES	0.238	0.284
12378-PeCDF	30.453	1.001	1.56e3	6.24e2	0.912	2.494	1.550	6.0	2723	1737	1.63e4	9.67e3	YES	0.180	0.247
23478-PeCDF	31.791	1.001	1.67e3	7.51e2	0.943	2.225	1.550	8.7	2723	1737	2.38e4	1.28e4	YES	0.213	0.269
123478-HxCDF	35.452	1.000	2.41e3	1.92e3	1.101	1.258	1.240	16.3	1962	3529	3.19e4	2.92e4	NO	0.546	0.546
234678-HxCDF	36.559	1.001	2.68e3	1.87e3	1.073	1.433	1.240	16.7	1962	3529	3.28e4	2.60e4	YES	0.559	0.607
123678-HxCDF	35.616	1.001	2.19e3	1.44e3	1.056	1.523	1.240	15.6	1962	3529	3.06e4	2.03e4	YES	0.391	0.440
123789-HxCDF	37.655	1.000	8.90e2	5.63e2	1.017	1.581	1.240	6.8	1962	3529	1.33e4	8.85e3	YES	0.175	0.201
1234678-HpCDF	39.759	1.000	2.52e4	2.56e4	1.238	0.985	1.050	225.1	1552	1022	3.49e5	3.61e5	NO	7.001	7.001
1234789-HpCDF	42.489	1.000	1.33e3	1.48e3	1.224	0.900	1.050	10.2	1552	1022	1.59e4	1.75e4	NO	0.504	0.504
OCDF	47.881	1.006	3.85e4	4.46e4	1.162	0.864	0.890	398.5	927	1204	3.70e5	4.17e5	NO	17.354	17.354
2378-TCDD	26.930	1.001	9.36e2	1.55e3	1.106	0.603	0.770	7.8	1495	1241	1.16e4	2.32e4	YES	0.252	0.291
12378-PeCDD	32.021	1.000	1.34e3	1.19e3	1.001	1.124	1.550	9.5	1310	1491	1.25e4	1.45e4	YES	0.361	0.415
123478-HxCDD	36.679	1.000	1.76e3	1.04e3	0.978	1.690	1.240	13.1	2077	2318	2.73e4	1.46e4	YES	0.400	0.480
123678-HxCDD	36.833	1.001	5.53e3	4.99e3	0.929	1.107	1.240	37.7	2077	2318	7.82e4	7.18e4	NO	1.702	1.702
123789-HxCDD	37.249	1.012	3.42e3	2.24e3	0.904	1.524	1.240	24.6	2077	2318	5.11e4	3.57e4	YES	0.882	0.993
1234678-HpCDD	41.601	1.001	1.25e5	1.21e5	1.029	1.032	1.050	647.2	2529	2579	1.64e6	1.54e6	NO	45.306	45.306
OCDD	47.603	1.000	8.35e5	9.55e5	1.011	0.875	0.890	2984.4	2770	2180	8.27e6	9.30e6	NO	429.338	429.338
13C-2378-TCDF	26.272	1.007	5.01e5	6.55e5	1.522	0.765	0.770	2541.5	2669	2820	6.78e6	8.90e6	NO	73.536	73.536
13C-12378-PeCDF	30.420	1.166	5.86e5	3.80e5	1.185	1.543	1.550	1701.5	4913	4179	8.36e6	5.39e6	NO	78.937	78.937
13C-23478-PeCDF	31.758	1.217	5.82e5	3.73e5	1.136	1.559	1.550	1660.5	4913	4179	8.16e6	5.24e6	NO	81.441	81.441
13C-123478-HxCDF	35.441	0.952	2.46e5	4.74e5	1.284	0.519	0.510	842.7	4173	4645	3.52e6	6.82e6	NO	78.911	78.911
13C-123678-HxCDF	35.594	0.956	2.76e5	5.03e5	1.383	0.548	0.510	910.8	4173	4645	3.80e6	6.95e6	NO	79.262	79.262
13C-234678-HxCDF	36.537	0.981	2.39e5	4.61e5	1.283	0.518	0.510	808.5	4173	4645	3.37e6	6.61e6	NO	76.778	76.778
13C-123789-HxCDF	37.666	1.012	2.44e5	4.67e5	1.099	0.522	0.510	859.6	4173	4645	3.59e6	6.73e6	NO	90.986	90.986
13C-1234678-HpCDF	39.749	1.068	1.82e5	4.04e5	1.070	0.451	0.440	1245.2	2041	3043	2.54e6	5.65e6	NO	77.077	77.077
13C-1234789-HpCDF	42.478	1.141	1.44e5	3.13e5	0.774	0.460	0.440	823.9	2041	3043	1.68e6	3.80e6	NO	83.054	83.054
13C-1234-TCDD	26.093	0.000	4.50e5	5.82e5	1.000	0.772	0.770	1804.1	3577	2833	6.45e6	8.44e6	NO	100.000	100.000
13C-2378-TCDD	26.900	1.031	3.39e5	4.33e5	0.943	0.783	0.770	1322.8	3577	2833	4.73e6	6.16e6	NO	79.307	79.307
13C-12378-PeCDD	32.021	1.227	3.77e5	2.33e5	0.715	1.618	1.550	3027.7	1765	1150	5.34e6	3.28e6	NO	82.555	82.555
13C-123478-HxCDD	36.679	0.985	3.32e5	2.64e5	1.032	1.257	1.240	1606.3	2920	2501	4.69e6	3.75e6	NO	81.324	81.324
13C-123678-HxCDD	36.800	0.989	3.63e5	3.02e5	1.076	1.201	1.240	1709.4	2920	2501	4.99e6	4.05e6	NO	86.922	86.922
13C-1234678-HpCDD	41.579	1.117	2.68e5	2.58e5	0.838	1.040	1.050	1736.8	1983	2388	3.44e6	3.30e6	NO	88.470	88.470
13C-OCDD	47.585	1.278	3.93e5	4.32e5	0.675	0.910	0.890	1161.6	3233	2908	3.75e6	4.12e6	NO	171.706	171.706

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

13C-123789-HxCDD	37.228	0.000	3.95e5	3.16e5	1.000	1.252	1.240	1917.7	2920	2501	5.60e6	4.49e6	NO	100.000
Total-tetrafurans			2.83e4		0.921				3989		3.79e5			5.996
Total-penta1			1.87e4						629		2.58e5			3.539
Total-pentafurans			1.57e4		0.927				2723		2.33e5			2.945
Total-hexafurans			4.88e4		1.062				1962		7.04e5			11.337
Total-heptafurans			7.64e4		1.231				1552		1.05e6			22.719
Total-Furans			2.26e5		1.065				3989		2.99e6			63.890
Total-tetraoxins			1.41e4		1.106				1495		1.93e5			3.675
Total-pentadioxins			1.81e4		1.001				1310		2.51e5			4.805
Total-hexadioxins			5.03e4		0.937				2077		6.46e5			15.115
Total-heptadioxins			2.99e5		1.029				2529		4.02e6			107.453
Total-Dioxins			1.22e6		0.994				1495		1.34e7			560.571
Total-TEQ			1.44e6						1495		1.64e7			624.461
37CL-2378-TCDD	26.930	1.032	3.45e5		1.051			3072.7	1527		4.69e6			31.821
FUNCTION1 PFK			7.32e5						430373		1.24e7			
FUNCTION2 PFK			1.36e5						155701		4.27e6			0.000
FUNCTION3 PFK			5.68e5						339235		1.61e7			0.000
FUNCTION4 PFK			4.35e5						270475		1.35e7			
FUNCTION5 PFK			3.58e6						217759		4.04e7			
FUNCTION1 HXCDPE			5.21e3						743		9.30e4			0.000
FUNCTION1 HPCDPE			2.73e3						927		5.55e4			0.000
FUNCTION2 HPCDPE			3.45e2						1320		1.13e4			0.000
FUNCTION3 OCDPE			1.18e2						638		3.11e3			0.000
FUNCTION4 NCDPE			3.09e4						1028		4.71e5			0.000
FUNCTION5 DCDPE			0.00e0						388		0.00e0			0.000

13030506

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RF/M	EMPC	1st Rat	2nd Rat	1st P	SN	
35	Total-tetrafurans	303.9016	24.97	3312.681	0.921	0.311	0.66	0.77	NO	4.4	
35	Total-tetrafurans	303.9016	24.54	2076.773	0.921	0.195	0.85	0.77	NO	3.7	
35	Total-tetrafurans	303.9016	24.37	1644.487	0.921	0.155	0.93	0.77	YES	3.0	
35	Total-tetrafurans	303.9016	24.27	3872.098	0.921	0.364	0.73	0.77	NO	6.7	
35	Total-tetrafurans	303.9016	24.12	2456.260	0.921	0.231	0.91	0.77	YES	4.1	
35	Total-tetrafurans	303.9016	24.03	2392.233	0.921	0.225	0.60	0.77	YES	3.8	
35	Total-tetrafurans	303.9016	23.94	3738.776	0.921	0.351	1.05	0.77	YES	4.6	
35	Total-tetrafurans	303.9016	23.81	4237.793	0.921	0.398	0.91	0.77	YES	3.9	
35	Total-tetrafurans	303.9016	23.61	15045.977	0.921	1.414	0.83	0.77	NO	21.4	
35	Total-tetrafurans	303.9016	23.03	2107.469	0.921	0.198	0.76	0.77	NO	3.3	
35	Total-tetrafurans	303.9016	22.79	2788.849	0.921	0.262	0.83	0.77	NO	4.2	
35	Total-tetrafurans	303.9016	26.51	2759.828	0.921	0.259	0.99	0.77	YES	4.8	
1	2378-TCDF	303.9016	26.29	3020.860	0.921	0.284	0.238	1.11	0.77	YES	6.4
35	Total-tetrafurans	303.9016	26.11	2199.402	0.921	0.207	1.05	0.77	YES	3.4	
35	Total-tetrafurans	303.9016	26.03	901.171	0.921	0.085	0.94	0.77	YES	2.5	
35	Total-tetrafurans	303.9016	25.38	2699.477	0.921	0.254	0.54	0.77	YES	3.8	
35	Total-tetrafurans	303.9016	25.18	6520.834	0.921	0.613	0.69	0.77	NO	8.9	
35	Total-tetrafurans	303.9016	25.03	2044.983	0.921	0.192	0.25	0.77	YES	2.0	

*h*

PP

#	Name	Trace	RT	Abs Resp	RF/M	EMPC	1st Rat	2nd Rat	1st P	SN
36	Total-penta1	339.8597	27.71	31169.029		3.539	1.51	1.55	NO	409.6

PF

#	Name	Trace	RT	Abs Resp	RF/M	EMPC	1st Rat	2nd Rat	1st P	SN	
37	Total-pentafurans	339.8597	30.08	4256.976	0.927	0.478	1.02	1.55	YES	8.8	
37	Total-pentafurans	339.8597	29.36	7847.536	0.927	0.881	0.83	1.55	YES	24.4	
37	Total-pentafurans	339.8597	29.30	5220.987	0.927	0.586	4.02	1.55	YES	22.4	
3	23478-PeCDF	339.8597	31.79	2422.087	0.943	0.269	0.213	2.22	1.55	YES	8.7
37	Total-pentafurans	339.8597	31.62	1893.032	0.927	0.213	1.50	1.55	NO	7.2	
37	Total-pentafurans	339.8597	31.52	1503.131	0.927	0.169	1.51	1.55	NO	4.7	
37	Total-pentafurans	339.8597	30.74	910.294	0.927	0.102	1.47	1.55	NO	3.5	
2	12378-PeCDF	339.8597	30.45	2179.502	0.912	0.247	0.180	2.49	1.55	YES	6.0

*h*

HF

#	Name	Trace	RT	Abs Resp	RF/M	EMPC	1st Rat	2nd Rat	1st P	SN	
38	Total-hexa furans	373.8208	34.80	35556.798	1.062	4.604	1.29	1.24	NO	151.4	
38	Total-hexa furans	373.8208	33.94	29236.311	1.062	3.785	1.25	1.24	NO	115.8	
38	Total-hexa furans	373.8208	33.73	8913.637	1.062	1.154	0.95	1.24	YES	36.4	
7	123789-HxCDF	373.8208	37.65	1453.663	1.017	0.201	0.175	1.58	1.24	YES	6.8
5	234678-HxCDF	373.8208	36.56	4556.913	1.073	0.607	0.559	1.43	1.24	YES	16.7
6	123678-HxCDF	373.8208	35.62	3621.484	1.056	0.440	0.391	1.52	1.24	YES	15.6
4	123478-HxCDF	373.8208	35.45	4330.142	1.101	0.546	0.546	1.26	1.24	NO	16.3

*h*

## Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

HPF

#	Name	Trace	RT	Abs. Resp	FWHM	Area	EMPC	1 <sup>st</sup> Ret.	2 <sup>nd</sup> Ret.	3 <sup>rd</sup> Ret.	Area
9	1234789-HpCDF	407.7818	42.49	2815.217	1.224	0.504	0.504	0.90	1.05	NO	10.2
39	Total-heptafurans	407.7818	40.71	903.679	1.231	0.141		0.43	1.05	YES	5.7
39	Total-heptafurans	407.7818	40.56	95207.609	1.231	14.841		1.05	1.05	NO	424.3
39	Total-heptafurans	407.7818	40.26	1039.367	1.231	0.162		1.47	1.05	YES	6.5
39	Total-heptafurans	407.7818	39.92	444.605	1.231	0.069		0.80	1.05	YES	3.6
8	1234678-HpCDF	407.7818	39.76	50774.842	1.238	7.001	7.001	0.98	1.05	NO	225.1

✓



Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld

Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time

Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Area	Height	FWHM	EMFC	1° Pol	1° Pol	1° Pol	Area
35	Total-tetrafurans	303.9016	24.97	3312.681	0.921	0.311		0.66	0.77	NO	4.4
35	Total-tetrafurans	303.9016	24.54	2076.773	0.921	0.195		0.85	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.37	1644.487	0.921	0.155		0.93	0.77	YES	3.0
35	Total-tetrafurans	303.9016	24.27	3872.098	0.921	0.364		0.73	0.77	NO	6.7
35	Total-tetrafurans	303.9016	24.12	2456.260	0.921	0.231		0.91	0.77	YES	4.1
35	Total-tetrafurans	303.9016	24.03	2392.233	0.921	0.225		0.60	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.94	3738.776	0.921	0.351		1.05	0.77	YES	4.6
35	Total-tetrafurans	303.9016	23.81	4237.793	0.921	0.398		0.91	0.77	YES	3.9
35	Total-tetrafurans	303.9016	23.61	15045.977	0.921	1.414		0.83	0.77	NO	21.4
35	Total-tetrafurans	303.9016	23.03	2107.469	0.921	0.198		0.76	0.77	NO	3.3
35	Total-tetrafurans	303.9016	22.79	2788.849	0.921	0.262		0.83	0.77	NO	4.2
35	Total-tetrafurans	303.9016	26.51	2759.828	0.921	0.259		0.99	0.77	YES	4.8
1	2378-TCDF	303.9016	26.29	3020.860	0.921	0.284	0.238	1.11	0.77	YES	6.4
35	Total-tetrafurans	303.9016	26.11	2199.402	0.921	0.207		1.05	0.77	YES	3.4
35	Total-tetrafurans	303.9016	26.03	901.171	0.921	0.085		0.94	0.77	YES	2.5
35	Total-tetrafurans	303.9016	25.38	2699.477	0.921	0.254		0.54	0.77	YES	3.8
35	Total-tetrafurans	303.9016	25.18	6520.834	0.921	0.613		0.69	0.77	NO	8.9
35	Total-tetrafurans	303.9016	25.03	2044.983	0.921	0.192		0.25	0.77	YES	2.0
37	Total-pentafurans	339.8597	30.08	4256.976	0.927	0.478		1.02	1.55	YES	8.8
37	Total-pentafurans	339.8597	29.36	7847.536	0.927	0.881		0.83	1.55	YES	24.4
37	Total-pentafurans	339.8597	29.30	5220.987	0.927	0.586		4.02	1.55	YES	22.4
3	23478-PeCDF	339.8597	31.79	2422.087	0.943	0.269	0.213	2.22	1.55	YES	8.7
37	Total-pentafurans	339.8597	31.62	1893.032	0.927	0.213		1.50	1.55	NO	7.2
37	Total-pentafurans	339.8597	31.52	1503.131	0.927	0.169		1.51	1.55	NO	4.7
37	Total-pentafurans	339.8597	30.74	910.294	0.927	0.102		1.47	1.55	NO	3.5
2	12378-PeCDF	339.8597	30.45	2179.502	0.912	0.247	0.180	2.49	1.55	YES	6.0
38	Total-hexafurans	373.8208	34.80	35556.798	1.062	4.604		1.29	1.24	NO	151.4
38	Total-hexafurans	373.8208	33.94	29236.311	1.062	3.785		1.25	1.24	NO	115.8
38	Total-hexafurans	373.8208	33.73	8913.637	1.062	1.154		0.95	1.24	YES	36.4
7	123789-HxCDF	373.8208	37.65	1453.663	1.017	0.201	0.175	1.58	1.24	YES	6.8
5	234678-HxCDF	373.8208	36.56	4556.913	1.073	0.607	0.559	1.43	1.24	YES	16.7
6	123678-HxCDF	373.8208	35.62	3621.484	1.056	0.440	0.391	1.52	1.24	YES	15.6
4	123478-HxCDF	373.8208	35.45	4330.142	1.101	0.546	0.546	1.26	1.24	NO	16.3
9	1234789-HpCDF	407.7818	42.49	2815.217	1.224	0.504	0.504	0.90	1.05	NO	10.2
39	Total-heptafurans	407.7818	40.71	903.679	1.231	0.141		0.43	1.05	YES	5.7
39	Total-heptafurans	407.7818	40.56	95207.609	1.231	14.841		1.05	1.05	NO	424.3
39	Total-heptafurans	407.7818	40.26	1039.367	1.231	0.162		1.47	1.05	YES	6.5
39	Total-heptafurans	407.7818	39.92	444.605	1.231	0.069		0.80	1.05	YES	3.6
8	1234678-HpCDF	407.7818	39.76	50774.842	1.238	7.001	7.001	0.98	1.05	NO	225.1
10	OCDF	441.7428	47.88	83114.047	1.162	17.354	17.354	0.86	0.89	NO	398.5
36	Total-penta1	339.8597	27.71	31169.029		3.539		1.51	1.55	NO	409.6

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
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ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

TD

#	Name	Trace	RT	Abs Resp	RPF M	ug	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
41	Total-tetradoxins	319.8965	25.91	833.330	1.106	0.098		1.84	0.77	YES	4.5
41	Total-tetradoxins	319.8965	25.56	2650.051	1.106	0.310		0.65	0.77	YES	8.5
41	Total-tetradoxins	319.8965	25.27	2104.881	1.106	0.246		0.71	0.77	NO	9.4
41	Total-tetradoxins	319.8965	25.05	1636.914	1.106	0.192		0.63	0.77	YES	7.2
41	Total-tetradoxins	319.8965	24.54	1136.148	1.106	0.133		0.70	0.77	NO	6.0
41	Total-tetradoxins	319.8965	24.33	4492.499	1.106	0.526		0.82	0.77	NO	17.3
41	Total-tetradoxins	319.8965	24.06	7491.315	1.106	0.877		0.79	0.77	NO	31.1
41	Total-tetradoxins	319.8965	27.48	4749.764	1.106	0.556		1.00	0.77	YES	20.3
41	Total-tetradoxins	319.8965	27.05	938.663	1.106	0.110		0.71	0.77	NO	3.4
11	2378-TCDD	319.8965	26.93	2486.378	1.106	0.291	0.252	0.60	0.77	YES	7.8
41	Total-tetradoxins	319.8965	26.54	1645.126	1.106	0.193		0.84	0.77	NO	4.5
41	Total-tetradoxins	319.8965	26.11	1215.412	1.106	0.142		1.70	0.77	YES	9.4

*pk*

PD

#	Name	Trace	RT	Abs Resp	RPF M	ug	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
42	Total-pentadoxins	355.8546	32.43	662.905	1.001	0.109		2.35	1.55	YES	6.1
12	12378-PeCDD	355.8546	32.02	2532.038	1.001	0.415	0.361	1.12	1.55	YES	9.5
42	Total-pentadoxins	355.8546	31.34	1370.622	1.001	0.225		1.92	1.55	YES	9.1
42	Total-pentadoxins	355.8546	30.96	2857.619	1.001	0.468		1.42	1.55	NO	12.1
42	Total-pentadoxins	355.8546	30.79	3385.199	1.001	0.555		1.10	1.55	YES	20.4
42	Total-pentadoxins	355.8546	30.66	2843.666	1.001	0.466		1.82	1.55	YES	22.7
42	Total-pentadoxins	355.8546	30.44	3892.207	1.001	0.638		1.91	1.55	YES	29.7
42	Total-pentadoxins	355.8546	29.82	1440.862	1.001	0.236		1.45	1.55	NO	9.8
42	Total-pentadoxins	355.8546	29.32	6284.101	1.001	1.030		1.67	1.55	NO	38.1
42	Total-pentadoxins	355.8546	29.28	4056.193	1.001	0.665		2.03	1.55	YES	33.6

*pk*

HD

#	Name	Trace	RT	Abs Resp	RPF M	ug	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
15	123789-HxCDD	389.8157	37.25	5665.127	0.904	0.993	0.882	1.52	1.24	YES	24.6
43	Total-hexadoxins	389.8157	37.00	2072.515	0.937	0.351		1.29	1.24	NO	9.0
14	123678-HxCDD	389.8157	36.83	10518.760	0.929	1.702	1.702	1.11	1.24	NO	37.7
13	123478-HxCDD	389.8157	36.68	2799.906	0.978	0.480	0.400	1.69	1.24	YES	13.1
43	Total-hexadoxins	389.8157	35.84	2987.825	0.937	0.506		1.21	1.24	NO	14.7
43	Total-hexadoxins	389.8157	35.74	30688.844	0.937	5.192		1.39	1.24	NO	82.0
43	Total-hexadoxins	389.8157	35.34	10147.824	0.937	1.717		1.34	1.24	NO	39.3
43	Total-hexadoxins	389.8157	34.53	24674.245	0.937	4.175		1.14	1.24	NO	90.7

*pk*

HPD

#	Name	Trace	RT	Abs Resp	RPF M	ug	EMPC	1 <sup>st</sup> Rat	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
16	1234678-HpCDD	423.7766	41.60	245464.234	1.029	45.306	45.306	1.03	1.05	NO	647.2
44	Total-heptadoxins	423.7766	40.32	336706.140	1.029	62.147		1.07	1.05	NO	943.4

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld

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Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abn Resp	RFI	M.L.	Ag	EMPC	1 <sup>st</sup> Rat.	2 <sup>nd</sup> Rat.	1 <sup>st</sup> E.	SN
41	Total-tetradoxins	319.8965	25.91	833.330	1.106	0.098			1.84	0.77	YES	4.5
41	Total-tetradoxins	319.8965	25.56	2650.051	1.106	0.310			0.65	0.77	YES	8.5
41	Total-tetradoxins	319.8965	25.27	2104.881	1.106	0.246			0.71	0.77	NO	9.4
41	Total-tetradoxins	319.8965	25.05	1636.914	1.106	0.192			0.63	0.77	YES	7.2
41	Total-tetradoxins	319.8965	24.54	1136.148	1.106	0.133			0.70	0.77	NO	6.0
41	Total-tetradoxins	319.8965	24.33	4492.499	1.106	0.526			0.82	0.77	NO	17.3
41	Total-tetradoxins	319.8965	24.06	7491.315	1.106	0.877			0.79	0.77	NO	31.1
45	Total-Dioxins	319.8965	21.40	192.381	0.994	0.025			0.82	0.77	NO	1.6
45	Total-Dioxins	319.8965	21.31	197.973	0.994	0.026			1.36	0.77	YES	1.4
45	Total-Dioxins	319.8965	27.80	1038.261	0.994	0.135			0.89	0.77	YES	4.1
41	Total-tetradoxins	319.8965	27.48	4749.764	1.106	0.556			1.00	0.77	YES	20.3
41	Total-tetradoxins	319.8965	27.05	938.663	1.106	0.110			0.71	0.77	NO	3.4
11	2378-TCDD	319.8965	26.93	2486.378	1.106	0.291	0.252		0.60	0.77	YES	7.8
41	Total-tetradoxins	319.8965	26.54	1645.126	1.106	0.193			0.84	0.77	NO	4.5
41	Total-tetradoxins	319.8965	26.11	1215.412	1.106	0.142			1.70	0.77	YES	9.4
42	Total-pentadoxins	355.8546	32.43	662.905	1.001	0.109			2.35	1.55	YES	6.1
12	12378-PeCDD	355.8546	32.02	2532.038	1.001	0.415	0.361		1.12	1.55	YES	9.5
42	Total-pentadoxins	355.8546	31.34	1370.622	1.001	0.225			1.92	1.55	YES	9.1
42	Total-pentadoxins	355.8546	30.96	2857.619	1.001	0.468			1.42	1.55	NO	12.1
42	Total-pentadoxins	355.8546	30.79	3385.199	1.001	0.555			1.10	1.55	YES	20.4
42	Total-pentadoxins	355.8546	30.66	2843.666	1.001	0.466			1.82	1.55	YES	22.7
42	Total-pentadoxins	355.8546	30.44	3892.207	1.001	0.638			1.91	1.55	YES	29.7
42	Total-pentadoxins	355.8546	29.82	1440.862	1.001	0.236			1.45	1.55	NO	9.8
42	Total-pentadoxins	355.8546	29.32	6284.101	1.001	1.030			1.67	1.55	NO	38.1
42	Total-pentadoxins	355.8546	29.28	4056.193	1.001	0.665			2.03	1.55	YES	33.6
15	123789-HxCDD	389.8157	37.25	5665.127	0.904	0.993	0.882		1.52	1.24	YES	24.6
43	Total-hexadoxins	389.8157	37.00	2072.515	0.937	0.351			1.29	1.24	NO	9.0
14	123678-HxCDD	389.8157	36.83	10518.760	0.929	1.702	1.702		1.11	1.24	NO	37.7
13	123478-HxCDD	389.8157	36.68	2799.906	0.978	0.480	0.400		1.69	1.24	YES	13.1
43	Total-hexadoxins	389.8157	35.84	2987.825	0.937	0.506			1.21	1.24	NO	14.7
43	Total-hexadoxins	389.8157	35.74	30688.844	0.937	5.192			1.39	1.24	NO	82.0
43	Total-hexadoxins	389.8157	35.34	10147.824	0.937	1.717			1.34	1.24	NO	39.3
43	Total-hexadoxins	389.8157	34.53	24674.245	0.937	4.175			1.14	1.24	NO	90.7
16	1234678-HpCDD	423.7766	41.60	245464.234	1.029	45.306	45.306		1.03	1.05	NO	647.2
44	Total-heptadoxins	423.7766	40.32	336706.140	1.029	62.147			1.07	1.05	NO	943.4
17	OCDD	457.7377	47.60	1789404.625	1.011	429.338	429....		0.87	0.89	NO	2984.4

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D: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF N	ug	EMPC	1° Rat	1° Pur	1° R	SN
35	Total-tetrafurans	303.9016	24.97	3312.681	0.921	0.311		0.66	0.77	NO	4.4
35	Total-tetrafurans	303.9016	24.54	2076.773	0.921	0.195		0.85	0.77	NO	3.7
35	Total-tetrafurans	303.9016	24.37	1644.487	0.921	0.155		0.93	0.77	YES	3.0
35	Total-tetrafurans	303.9016	24.27	3872.098	0.921	0.364		0.73	0.77	NO	6.7
35	Total-tetrafurans	303.9016	24.12	2456.260	0.921	0.231		0.91	0.77	YES	4.1
35	Total-tetrafurans	303.9016	24.03	2392.233	0.921	0.225		0.60	0.77	YES	3.8
35	Total-tetrafurans	303.9016	23.94	3738.776	0.921	0.351		1.05	0.77	YES	4.6
35	Total-tetrafurans	303.9016	23.81	4237.793	0.921	0.398		0.91	0.77	YES	3.9
35	Total-tetrafurans	303.9016	23.61	15045.977	0.921	1.414		0.83	0.77	NO	21.4
35	Total-tetrafurans	303.9016	23.03	2107.469	0.921	0.198		0.76	0.77	NO	3.3
35	Total-tetrafurans	303.9016	22.79	2788.849	0.921	0.262		0.83	0.77	NO	4.2
35	Total-tetrafurans	303.9016	26.51	2759.828	0.921	0.259		0.99	0.77	YES	4.8
1	2378-TCDF	303.9016	26.29	3020.860	0.921	0.284	0.238	1.11	0.77	YES	6.4
35	Total-tetrafurans	303.9016	26.11	2199.402	0.921	0.207		1.05	0.77	YES	3.4
35	Total-tetrafurans	303.9016	26.03	901.171	0.921	0.085		0.94	0.77	YES	2.5
35	Total-tetrafurans	303.9016	25.38	2699.477	0.921	0.254		0.54	0.77	YES	3.8
35	Total-tetrafurans	303.9016	25.18	6520.834	0.921	0.613		0.69	0.77	NO	8.9
35	Total-tetrafurans	303.9016	25.03	2044.983	0.921	0.192		0.25	0.77	YES	2.0
37	Total-pentafurans	339.8597	30.08	4256.976	0.927	0.478		1.02	1.55	YES	8.8
37	Total-pentafurans	339.8597	29.36	7847.536	0.927	0.881		0.83	1.55	YES	24.4
37	Total-pentafurans	339.8597	29.30	5220.987	0.927	0.586		4.02	1.55	YES	22.4
3	23478-PeCDF	339.8597	31.79	2422.087	0.943	0.269	0.213	2.22	1.55	YES	8.7
37	Total-pentafurans	339.8597	31.62	1893.032	0.927	0.213		1.50	1.55	NO	7.2
37	Total-pentafurans	339.8597	31.52	1503.131	0.927	0.169		1.51	1.55	NO	4.7
37	Total-pentafurans	339.8597	30.74	910.294	0.927	0.102		1.47	1.55	NO	3.5
2	12378-PeCDF	339.8597	30.45	2179.502	0.912	0.247	0.180	2.49	1.55	YES	6.0
38	Total-hexafurans	373.8208	34.80	35556.798	1.062	4.604		1.29	1.24	NO	151.4
38	Total-hexafurans	373.8208	33.94	29236.311	1.062	3.785		1.25	1.24	NO	115.8
38	Total-hexafurans	373.8208	33.73	8913.637	1.062	1.154		0.95	1.24	YES	36.4
7	123789-HxCDF	373.8208	37.65	1453.663	1.017	0.201	0.175	1.58	1.24	YES	6.8
5	234678-HxCDF	373.8208	36.56	4556.913	1.073	0.607	0.559	1.43	1.24	YES	16.7
6	123678-HxCDF	373.8208	35.62	3621.484	1.056	0.440	0.391	1.52	1.24	YES	15.6
4	123478-HxCDF	373.8208	35.45	4330.142	1.101	0.546	0.546	1.26	1.24	NO	16.3
9	1234789-HpCDF	407.7818	42.49	2815.217	1.224	0.504	0.504	0.90	1.05	NO	10.2
39	Total-heptafurans	407.7818	40.71	903.679	1.231	0.141		0.43	1.05	YES	5.7
39	Total-heptafurans	407.7818	40.56	95207.609	1.231	14.841		1.05	1.05	NO	424.3
39	Total-heptafurans	407.7818	40.26	1039.367	1.231	0.162		1.47	1.05	YES	6.5
39	Total-heptafurans	407.7818	39.92	444.605	1.231	0.069		0.80	1.05	YES	3.6
8	1234678-HpCDF	407.7818	39.76	50774.842	1.238	7.001	7.001	0.98	1.05	NO	225.1
10	OCDF	441.7428	47.88	83114.047	1.162	17.354	17.354	0.86	0.89	NO	398.5
36	Total-penta1	339.8597	27.71	31169.029		3.539		1.51	1.55	NO	409.6
41	Total-tetradiioxins	319.8965	25.91	833.330	1.106	0.098		1.84	0.77	YES	4.5
41	Total-tetradiioxins	319.8965	25.56	2650.051	1.106	0.310		0.65	0.77	YES	8.5
41	Total-tetradiioxins	319.8965	25.27	2104.881	1.106	0.246		0.71	0.77	NO	9.4
41	Total-tetradiioxins	319.8965	25.05	1636.914	1.106	0.192		0.63	0.77	YES	7.2
41	Total-tetradiioxins	319.8965	24.54	1136.148	1.106	0.133		0.70	0.77	NO	6.0
41	Total-tetradiioxins	319.8965	24.33	4492.499	1.106	0.526		0.82	0.77	NO	17.3
41	Total-tetradiioxins	319.8965	24.06	7491.315	1.106	0.877		0.79	0.77	NO	31.1
45	Total-Dioxins	319.8965	21.40	192.381	0.994	0.025		0.82	0.77	NO	1.6

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RFEM	ug	EMPC	1 <sup>st</sup> Ref.	1 <sup>st</sup> Ref.	1 <sup>st</sup> R.	SN
45	Total-Dioxins	319.8965	21.31	197.973	0.994	0.026		1.36	0.77	YES	1.4
45	Total-Dioxins	319.8965	27.80	1038.261	0.994	0.135		0.89	0.77	YES	4.1
41	Total-tetradoxins	319.8965	27.48	4749.764	1.106	0.556		1.00	0.77	YES	20.3
41	Total-tetradoxins	319.8965	27.05	938.663	1.106	0.110		0.71	0.77	NO	3.4
11	2378-TCDD	319.8965	26.93	2486.378	1.106	0.291	0.252	0.60	0.77	YES	7.8
41	Total-tetradoxins	319.8965	26.54	1645.126	1.106	0.193		0.84	0.77	NO	4.5
41	Total-tetradoxins	319.8965	26.11	1215.412	1.106	0.142		1.70	0.77	YES	9.4
42	Total-pentadoxins	355.8546	32.43	662.905	1.001	0.109		2.35	1.55	YES	6.1
12	12378-PeCDD	355.8546	32.02	2532.038	1.001	0.415	0.361	1.12	1.55	YES	9.5
42	Total-pentadoxins	355.8546	31.34	1370.622	1.001	0.225		1.92	1.55	YES	9.1
42	Total-pentadoxins	355.8546	30.96	2857.619	1.001	0.468		1.42	1.55	NO	12.1
42	Total-pentadoxins	355.8546	30.79	3385.199	1.001	0.555		1.10	1.55	YES	20.4
42	Total-pentadoxins	355.8546	30.66	2843.666	1.001	0.466		1.82	1.55	YES	22.7
42	Total-pentadoxins	355.8546	30.44	3892.207	1.001	0.638		1.91	1.55	YES	29.7
42	Total-pentadoxins	355.8546	29.82	1440.862	1.001	0.236		1.45	1.55	NO	9.8
42	Total-pentadoxins	355.8546	29.32	6284.101	1.001	1.030		1.67	1.55	NO	38.1
42	Total-pentadoxins	355.8546	29.28	4056.193	1.001	0.665		2.03	1.55	YES	33.6
15	123789-HxCDD	389.8157	37.25	5665.127	0.904	0.993	0.882	1.52	1.24	YES	24.6
43	Total-hexadoxins	389.8157	37.00	2072.515	0.937	0.351		1.29	1.24	NO	9.0
14	123678-HxCDD	389.8157	36.83	10518.760	0.929	1.702	1.702	1.11	1.24	NO	37.7
13	123478-HxCDD	389.8157	36.68	2799.906	0.978	0.480	0.400	1.69	1.24	YES	13.1
43	Total-hexadoxins	389.8157	35.84	2987.825	0.937	0.506		1.21	1.24	NO	14.7
43	Total-hexadoxins	389.8157	35.74	30688.844	0.937	5.192		1.39	1.24	NO	82.0
43	Total-hexadoxins	389.8157	35.34	10147.824	0.937	1.717		1.34	1.24	NO	39.3
43	Total-hexadoxins	389.8157	34.53	24674.245	0.937	4.175		1.14	1.24	NO	90.7
16	1234678-HpCDD	423.7766	41.60	245464.234	1.029	45.306	45.306	1.03	1.05	NO	647.2
44	Total-heptadoxins	423.7766	40.32	336706.140	1.029	62.147		1.07	1.05	NO	943.4
17	OCDD	457.7377	47.60	1789404.625	1.011	429.338	429....	0.87	0.89	NO	2984.4

PFK1

#	Name	Trace	RT	Abs Resp	RFEM	ug	EMPC	1 <sup>st</sup> Ref.	1 <sup>st</sup> Ref.	1 <sup>st</sup> R.	SN
48	FUNCTION1 PFK	330.9792	28.18	0.000							1.4
48	FUNCTION1 PFK	330.9792	25.21	0.000							1.6
48	FUNCTION1 PFK	330.9792	24.90	0.000							2.0
48	FUNCTION1 PFK	330.9792	24.54	0.000							5.7
48	FUNCTION1 PFK	330.9792	23.36	0.000							4.1
48	FUNCTION1 PFK	330.9792	21.89	0.000							6.2
48	FUNCTION1 PFK	330.9792	21.85	0.000							5.8
48	FUNCTION1 PFK	330.9792	21.52	0.000							2.0

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PFK2

#	Name	Time	RT	Abs Resp	PFK M.	pg	EMPC	1° Ret.	1° Ret.	1° R.	SN
49	FUNCTION2 PFK	366.9792	29.06	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.69	0.000		0.000					2.7
49	FUNCTION2 PFK	366.9792	33.01	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	32.54	0.000		0.000					2.5
49	FUNCTION2 PFK	366.9792	32.42	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	32.31	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	32.24	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	32.13	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	31.79	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	31.59	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	30.77	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.63	0.000		0.000					2.9
49	FUNCTION2 PFK	366.9792	30.20	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	30.12	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	29.87	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	29.84	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	29.42	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	29.31	0.000		0.000					1.2

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PFK3

#	Name	Trace	RT	Abs Resp	RF	M...	pp	EMPC	1° Ret.	1° Ret.	1° R.	SN
50	FUNCTION3 PFK	380.9760	35.34	0.000			0.000					0.8
50	FUNCTION3 PFK	380.9760	35.27	0.000			0.000					1.3
50	FUNCTION3 PFK	380.9760	34.96	0.000			0.000					0.9
50	FUNCTION3 PFK	380.9760	34.91	0.000			0.000					1.4
50	FUNCTION3 PFK	380.9760	34.85	0.000			0.000					1.3
50	FUNCTION3 PFK	380.9760	34.67	0.000			0.000					0.6
50	FUNCTION3 PFK	380.9760	34.63	0.000			0.000					1.0
50	FUNCTION3 PFK	380.9760	34.54	0.000			0.000					1.1
50	FUNCTION3 PFK	380.9760	34.37	0.000			0.000					1.2
50	FUNCTION3 PFK	380.9760	34.10	0.000			0.000					1.3
50	FUNCTION3 PFK	380.9760	33.85	0.000			0.000					0.7
50	FUNCTION3 PFK	380.9760	33.50	0.000			0.000					0.4
50	FUNCTION3 PFK	380.9760	33.41	0.000			0.000					1.0
50	FUNCTION3 PFK	380.9760	33.38	0.000			0.000					0.6
50	FUNCTION3 PFK	380.9760	33.26	0.000			0.000					1.5
50	FUNCTION3 PFK	380.9760	37.35	0.000			0.000					2.1
50	FUNCTION3 PFK	380.9760	37.27	0.000			0.000					1.5
50	FUNCTION3 PFK	380.9760	37.18	0.000			0.000					1.8
50	FUNCTION3 PFK	380.9760	37.13	0.000			0.000					2.0
50	FUNCTION3 PFK	380.9760	36.95	0.000			0.000					0.9
50	FUNCTION3 PFK	380.9760	36.87	0.000			0.000					1.2
50	FUNCTION3 PFK	380.9760	36.78	0.000			0.000					1.0
50	FUNCTION3 PFK	380.9760	36.75	0.000			0.000					0.4
50	FUNCTION3 PFK	380.9760	36.51	0.000			0.000					1.5
50	FUNCTION3 PFK	380.9760	36.46	0.000			0.000					2.3
50	FUNCTION3 PFK	380.9760	36.28	0.000			0.000					0.8
50	FUNCTION3 PFK	380.9760	35.93	0.000			0.000					1.1
50	FUNCTION3 PFK	380.9760	35.90	0.000			0.000					1.1
50	FUNCTION3 PFK	380.9760	35.76	0.000			0.000					1.5
50	FUNCTION3 PFK	380.9760	35.68	0.000			0.000					1.7
50	FUNCTION3 PFK	380.9760	35.42	0.000			0.000					0.8
50	FUNCTION3 PFK	380.9760	38.44	0.000			0.000					1.0
50	FUNCTION3 PFK	380.9760	38.29	0.000			0.000					1.2
50	FUNCTION3 PFK	380.9760	38.13	0.000			0.000					0.9
50	FUNCTION3 PFK	380.9760	37.94	0.000			0.000					0.4
50	FUNCTION3 PFK	380.9760	37.87	0.000			0.000					0.9
50	FUNCTION3 PFK	380.9760	37.82	0.000			0.000					1.2
50	FUNCTION3 PFK	380.9760	37.75	0.000			0.000					1.1
50	FUNCTION3 PFK	380.9760	37.59	0.000			0.000					4.0

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PFK4

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
51	FUNCTION4 PFK	430.9728	39.74	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.65	0.000							1.1
51	FUNCTION4 PFK	430.9728	39.61	0.000							0.7
51	FUNCTION4 PFK	430.9728	39.56	0.000							0.5
51	FUNCTION4 PFK	430.9728	39.39	0.000							1.5
51	FUNCTION4 PFK	430.9728	39.23	0.000							1.2
51	FUNCTION4 PFK	430.9728	38.79	0.000							1.4
51	FUNCTION4 PFK	430.9728	42.99	0.000							0.8
51	FUNCTION4 PFK	430.9728	42.84	0.000							1.2
51	FUNCTION4 PFK	430.9728	42.13	0.000							1.6
51	FUNCTION4 PFK	430.9728	41.73	0.000							1.1
51	FUNCTION4 PFK	430.9728	41.67	0.000							1.4
51	FUNCTION4 PFK	430.9728	41.41	0.000							1.8
51	FUNCTION4 PFK	430.9728	41.32	0.000							1.1
51	FUNCTION4 PFK	430.9728	41.23	0.000							1.9
51	FUNCTION4 PFK	430.9728	41.15	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.95	0.000							1.9
51	FUNCTION4 PFK	430.9728	40.72	0.000							1.6
51	FUNCTION4 PFK	430.9728	40.57	0.000							0.8
51	FUNCTION4 PFK	430.9728	40.19	0.000							0.6
51	FUNCTION4 PFK	430.9728	40.02	0.000							1.8
51	FUNCTION4 PFK	430.9728	39.97	0.000							1.1
51	FUNCTION4 PFK	430.9728	39.90	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.76	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.66	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.47	0.000							0.4
51	FUNCTION4 PFK	430.9728	44.39	0.000							0.6
51	FUNCTION4 PFK	430.9728	44.18	0.000							0.8
51	FUNCTION4 PFK	430.9728	44.07	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.02	0.000							1.6
51	FUNCTION4 PFK	430.9728	43.84	0.000							0.8
51	FUNCTION4 PFK	430.9728	43.78	0.000							0.7
51	FUNCTION4 PFK	430.9728	43.73	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.60	0.000							1.6
51	FUNCTION4 PFK	430.9728	43.50	0.000							1.3
51	FUNCTION4 PFK	430.9728	43.42	0.000							1.1
51	FUNCTION4 PFK	430.9728	43.31	0.000							1.4
51	FUNCTION4 PFK	430.9728	43.29	0.000							1.5
51	FUNCTION4 PFK	430.9728	43.26	0.000							1.7
51	FUNCTION4 PFK	430.9728	44.96	0.000							0.9
51	FUNCTION4 PFK	430.9728	44.82	0.000							1.3



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PFK5

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Ret...	1° Ret...	1° R...	SN
52	FUNCTION5 PFK	480.9696	46.43	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.29	0.000							0.6
52	FUNCTION5 PFK	480.9696	46.16	0.000							0.6
52	FUNCTION5 PFK	480.9696	46.05	0.000							1.2
52	FUNCTION5 PFK	480.9696	45.98	0.000							0.8
52	FUNCTION5 PFK	480.9696	45.93	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.62	0.000							9.6
52	FUNCTION5 PFK	480.9696	45.55	0.000							13.6
52	FUNCTION5 PFK	480.9696	45.50	0.000							16.5
52	FUNCTION5 PFK	480.9696	45.47	0.000							18.1
52	FUNCTION5 PFK	480.9696	45.40	0.000							21.5
52	FUNCTION5 PFK	480.9696	45.18	0.000							33.0
52	FUNCTION5 PFK	480.9696	45.06	0.000							39.6
52	FUNCTION5 PFK	480.9696	48.54	0.000							2.0
52	FUNCTION5 PFK	480.9696	48.47	0.000							0.8
52	FUNCTION5 PFK	480.9696	48.43	0.000							1.7
52	FUNCTION5 PFK	480.9696	48.22	0.000							0.3
52	FUNCTION5 PFK	480.9696	47.72	0.000							0.8
52	FUNCTION5 PFK	480.9696	47.67	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.41	0.000							0.6
52	FUNCTION5 PFK	480.9696	47.31	0.000							0.7
52	FUNCTION5 PFK	480.9696	47.15	0.000							0.7
52	FUNCTION5 PFK	480.9696	47.12	0.000							1.5
52	FUNCTION5 PFK	480.9696	47.04	0.000							0.9
52	FUNCTION5 PFK	480.9696	46.97	0.000							1.7
52	FUNCTION5 PFK	480.9696	46.92	0.000							0.4
52	FUNCTION5 PFK	480.9696	46.80	0.000							1.0
52	FUNCTION5 PFK	480.9696	46.74	0.000							0.9
52	FUNCTION5 PFK	480.9696	46.54	0.000							0.3
52	FUNCTION5 PFK	480.9696	49.41	0.000							1.0
52	FUNCTION5 PFK	480.9696	49.33	0.000							0.9
52	FUNCTION5 PFK	480.9696	49.25	0.000							1.6
52	FUNCTION5 PFK	480.9696	49.18	0.000							1.6
52	FUNCTION5 PFK	480.9696	49.15	0.000							1.6
52	FUNCTION5 PFK	480.9696	49.12	0.000							1.3
52	FUNCTION5 PFK	480.9696	48.92	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.89	0.000							1.6
52	FUNCTION5 PFK	480.9696	48.81	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.72	0.000							0.9
52	FUNCTION5 PFK	480.9696	48.64	0.000							0.6
52	FUNCTION5 PFK	480.9696	48.62	0.000							0.5

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## ETHERS1

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Reti..	1° Reti..	1° R..	SN
53	FUNCTION1 HXCD..	375.8364	24.75	0.000		0.000					2.1
53	FUNCTION1 HXCD...	375.8364	24.14	0.000		0.000					100.8
53	FUNCTION1 HXCD...	375.8364	21.18	0.000		0.000					15.3
53	FUNCTION1 HXCD...	375.8364	26.11	0.000		0.000					3.4
53	FUNCTION1 HXCD...	375.8364	25.35	0.000		0.000					3.4

## ETHERS2

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Reti..	1° Reti..	1° R..	SN
54	FUNCTION1 HPCD...	409.7974	26.11	0.000		0.000					2.1
54	FUNCTION1 HPCD...	409.7974	26.02	0.000		0.000					2.1
54	FUNCTION1 HPCD...	409.7974	25.58	0.000		0.000					2.6
54	FUNCTION1 HPCD..	409.7974	25.17	0.000		0.000					3.0
54	FUNCTION1 HPCD...	409.7974	24.14	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	24.02	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	23.90	0.000		0.000					2.5
54	FUNCTION1 HPCD...	409.7974	23.87	0.000		0.000					2.6
54	FUNCTION1 HPCD...	409.7974	23.73	0.000		0.000					2.8
54	FUNCTION1 HPCD..	409.7974	23.49	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	23.06	0.000		0.000					1.3
54	FUNCTION1 HPCD...	409.7974	22.70	0.000		0.000					3.0
54	FUNCTION1 HPCD...	409.7974	21.18	0.000		0.000					22.7
54	FUNCTION1 HPCD...	409.7974	28.27	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	28.09	0.000		0.000					2.8
54	FUNCTION1 HPCD...	409.7974	27.39	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	26.93	0.000		0.000					2.5

## ETHERS3

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Reti..	1° Reti..	1° R..	SN
55	FUNCTION2 HPCD...	409.7974	32.95	0.000		0.000					2.5
55	FUNCTION2 HPCD...	409.7974	32.45	0.000		0.000					2.1
55	FUNCTION2 HPCD...	409.7974	30.58	0.000		0.000					2.5
55	FUNCTION2 HPCD...	409.7974	28.70	0.000		0.000					1.5

## ETHERS4

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Reti..	1° Reti..	1° R..	SN
56	FUNCTION3 OCDPE	445.7555	35.40	0.000		0.000					4.9

## ETHERS5

#	Name	Trace	RT	Abs Resp	RRF M..	pg	EMPC	1° Reti..	1° Reti..	1° R..	SN
57	FUNCTION4 NCDPE	479.7165	44.08	0.000		0.000					2.1
57	FUNCTION4 NCDPE	479.7165	43.06	0.000		0.000					2.6
57	FUNCTION4 NCDPE	479.7165	40.81	0.000		0.000					2.4
57	FUNCTION4 NCDPE	479.7165	39.34	0.000		0.000					451.3

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

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ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

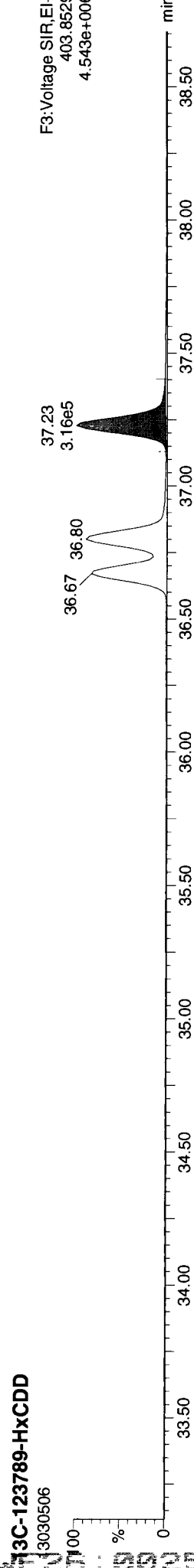
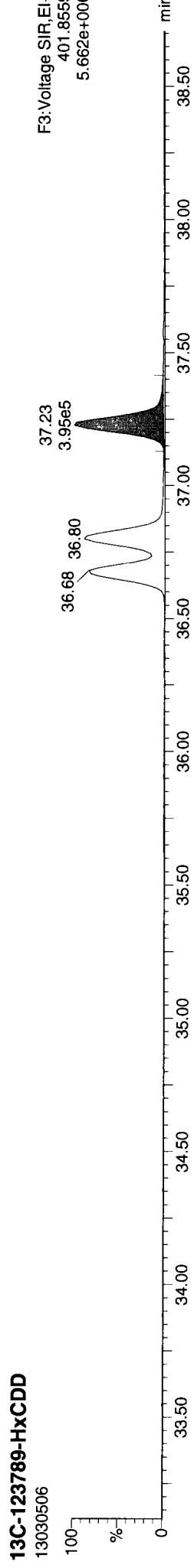
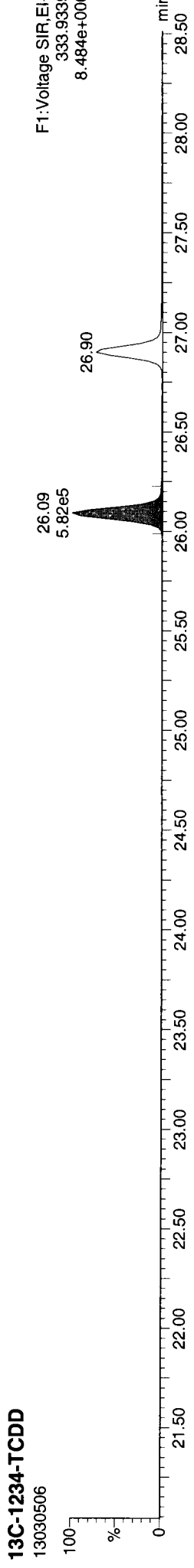
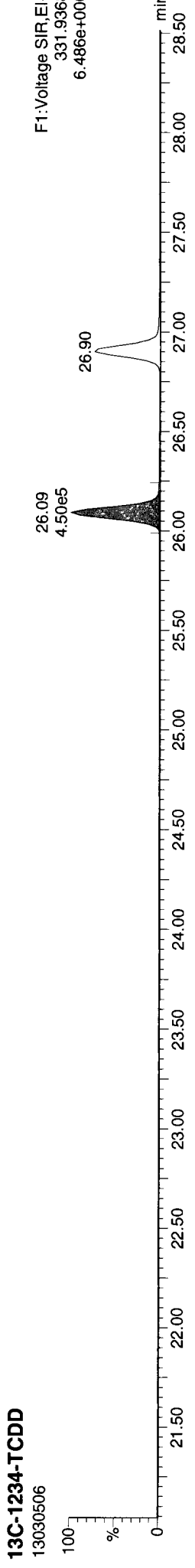
ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF	M...	ng	EMPO	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R...	SN
---	------	-------	----	-----------	-----	------	----	------	----------------------	----------------------	----------------------	----

**Quantity Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**Method:** P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

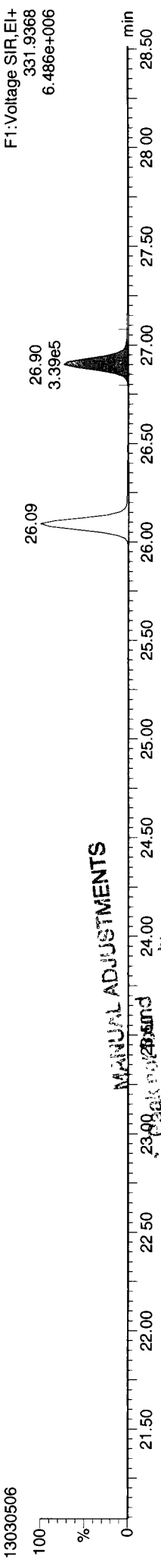
**ID:** WF26A, **Name:** 13030506, **Date:** 05-Mar-2013, **Time:** 15:59:22, **Conditions:** AUTOSPEC01, **User:** pk



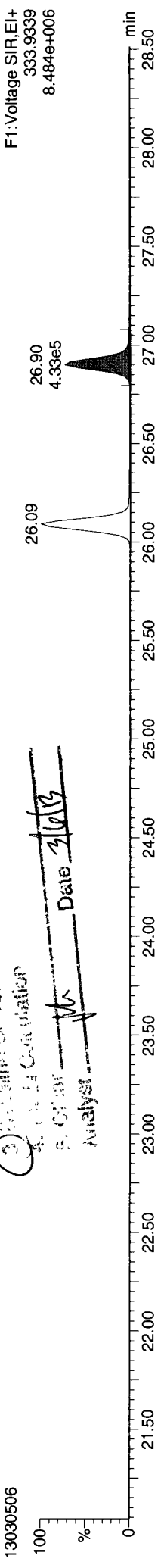
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

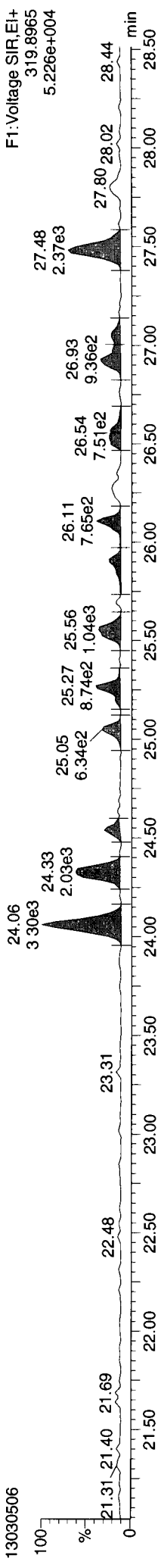


13C-2378-TCDD

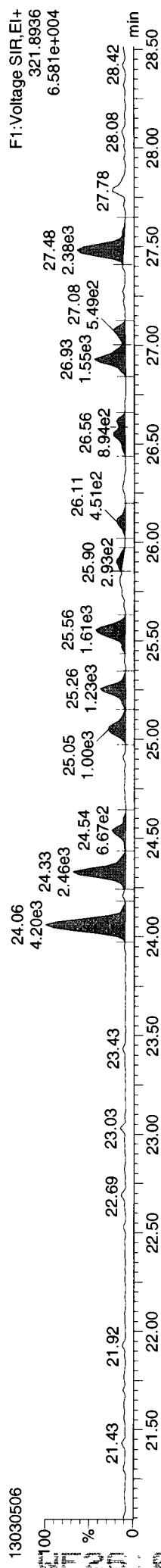


MANUAL ADJUSTMENTS  
1. Peak Integration  
2. Peak Chromatography  
3. Baseline Correction  
4. Peak Calculation  
S. Ogar Analyst Date 3/6/13

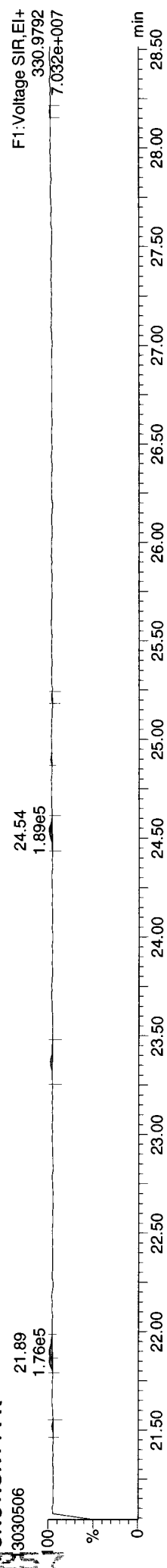
Total-tetradoxins



Total-tetradoxins



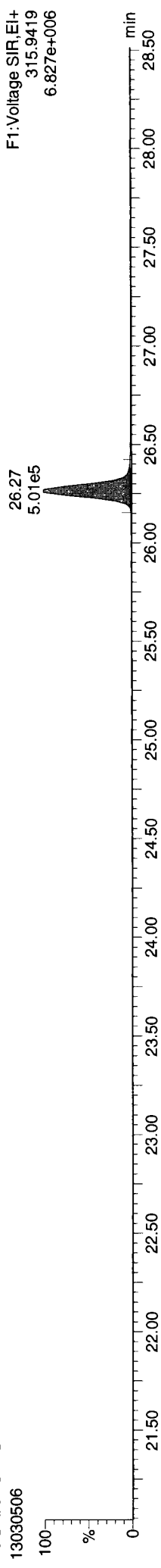
FUNCTION1 PFK



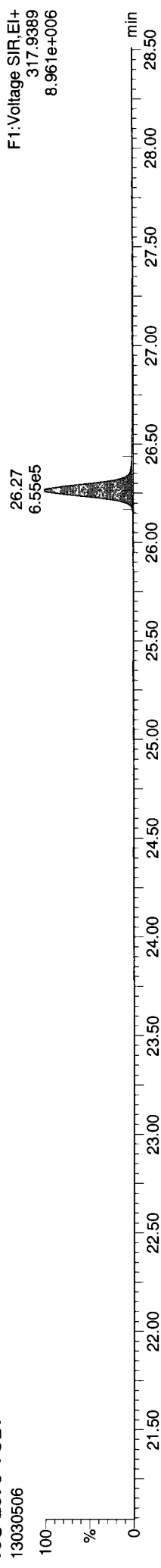
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

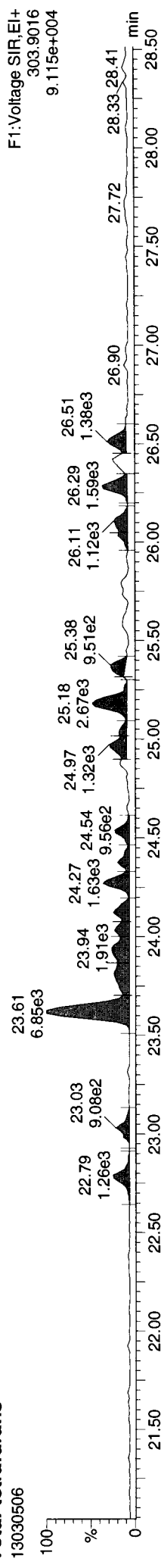
**13C-2378-TCDF**



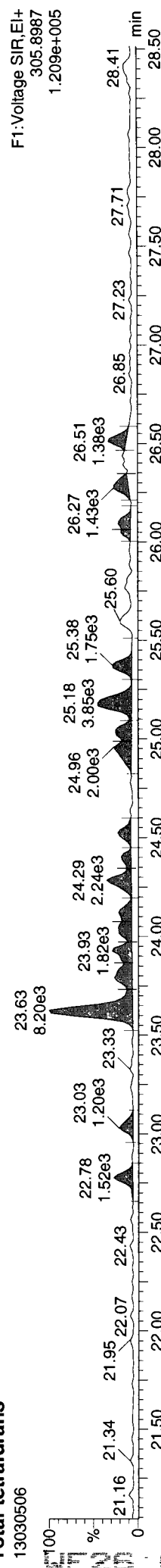
**13C-2378-TCDF**



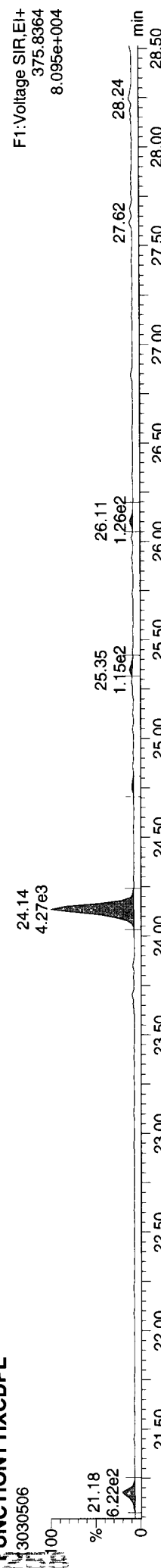
**Total-tetrafurans**



**Total-tetrafurans**



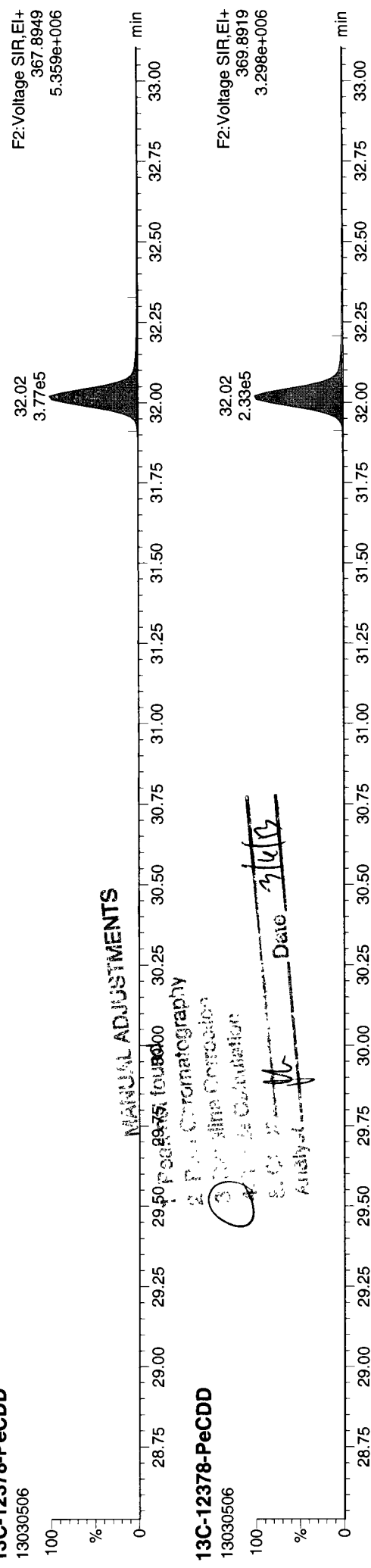
**FUNCTION1 HXCDPE**



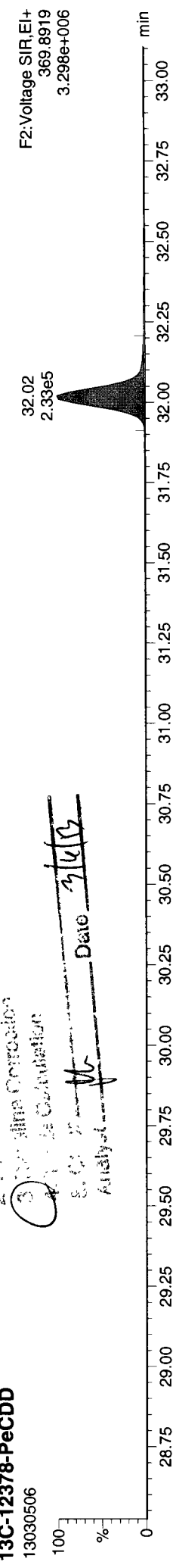
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

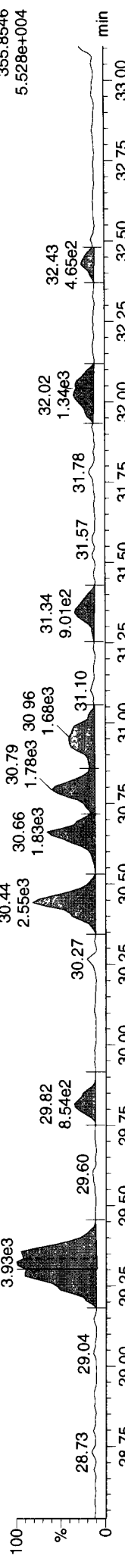
**13C-12378-PeCDD**  
 13030506



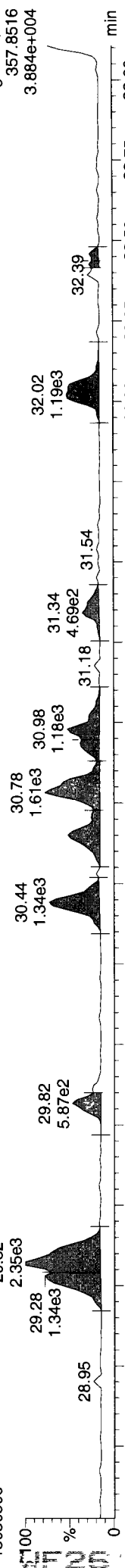
**13C-12378-PeCDD**  
 13030506



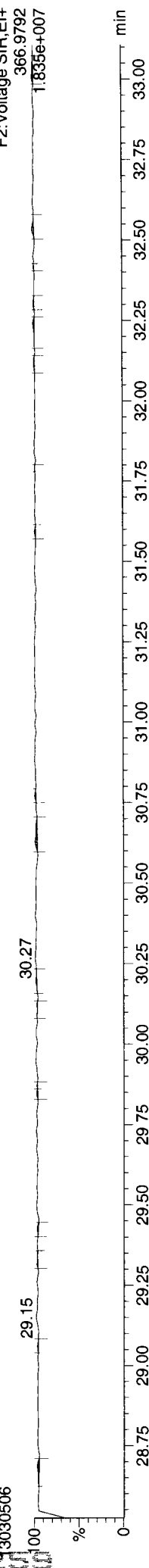
**Total-pentadioxins**  
 13030506



**Total-pentadioxins**  
 13030506



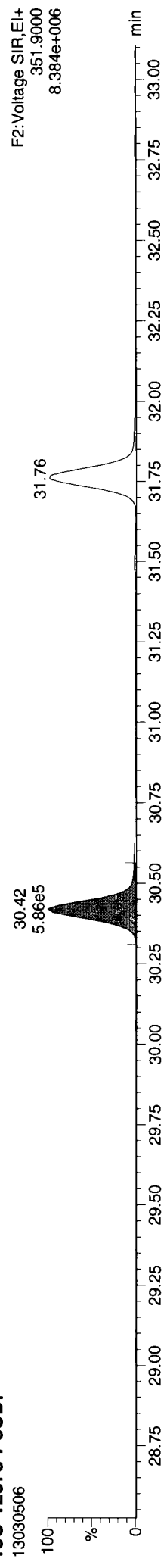
**FUNCTION2 PFK**  
 13030506



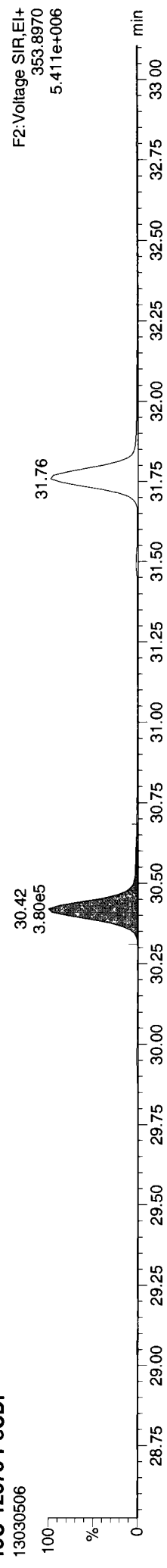
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

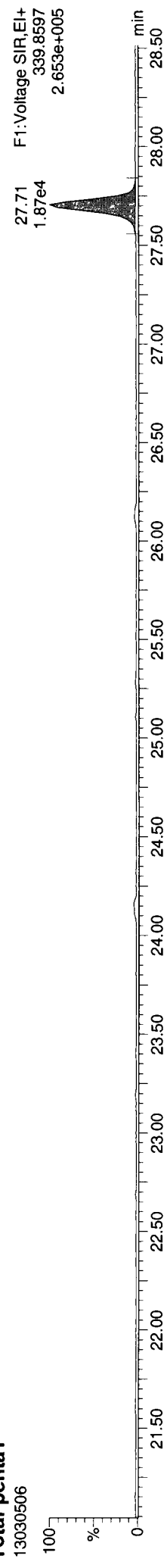
**13C-12378-PeCDF**  
 13030506



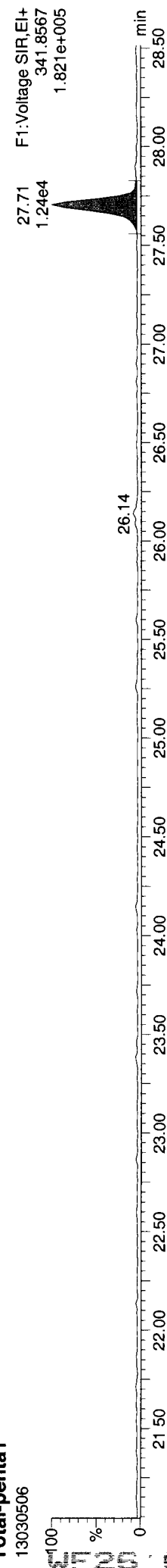
**13C-12378-PeCDF**  
 13030506



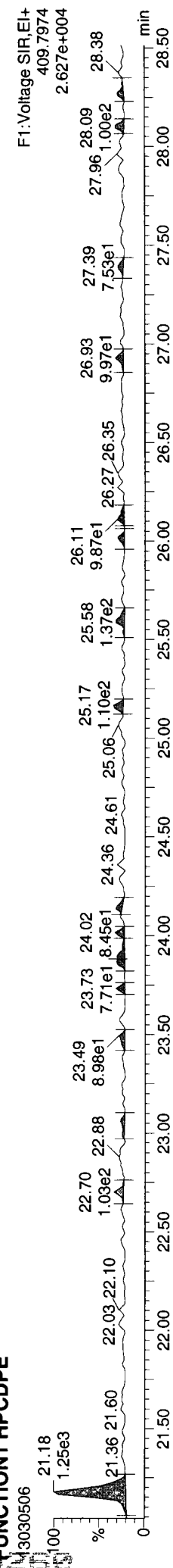
**Total-penta1**  
 13030506



**Total-penta1**  
 13030506



**FUNCTION1 HPCDPE**  
 13030506

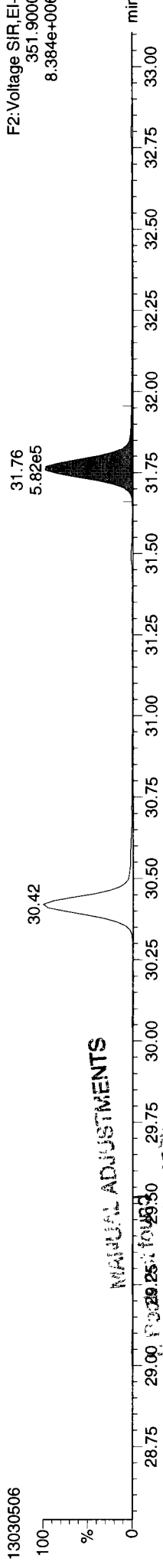




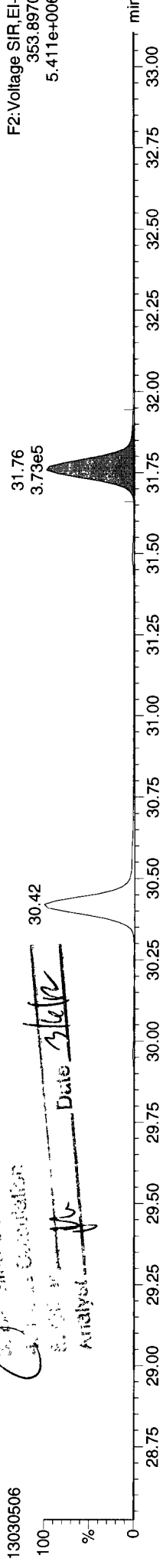
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

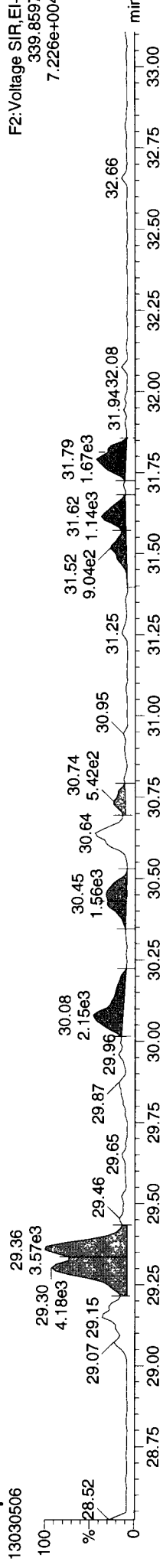
13C-23478-PeCDF



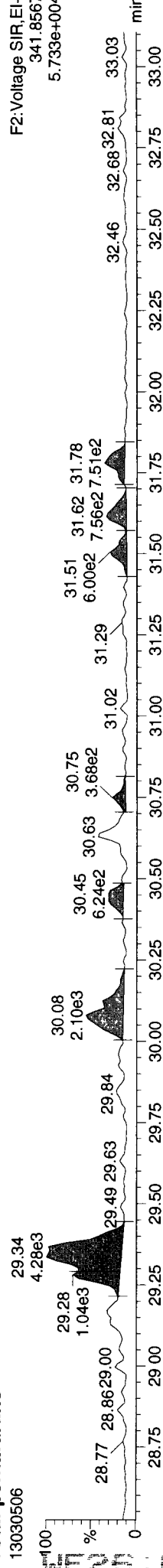
13C-23478-PeCDF



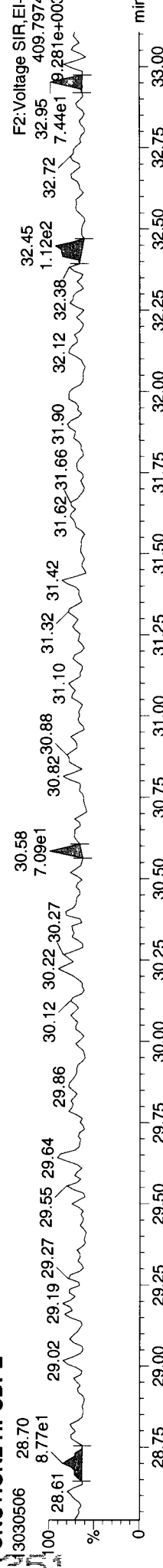
Total-pentafurans



Total-pentafurans



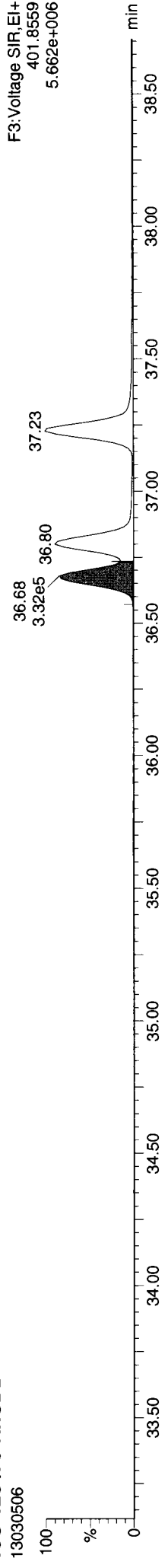
FUNCTION2 HPCDPE



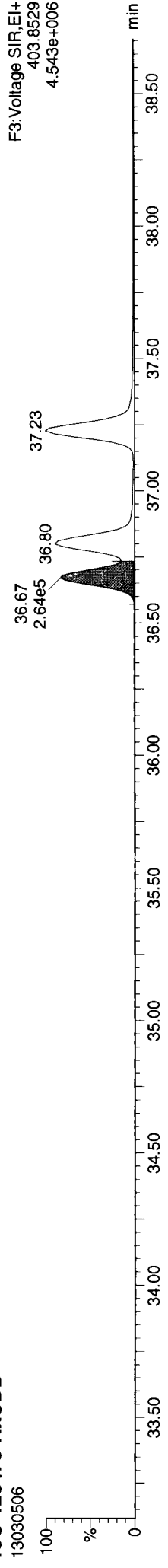
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

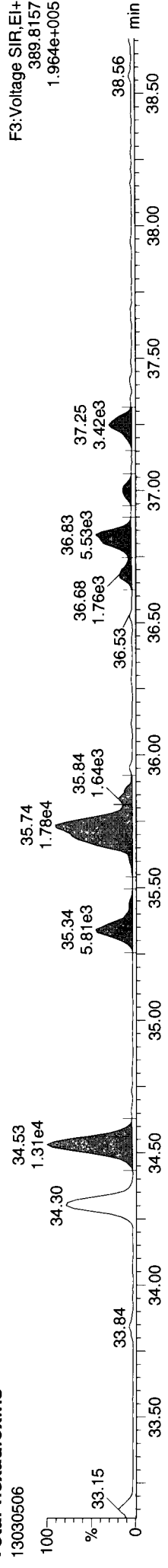
**13C-123478-HxCDD**



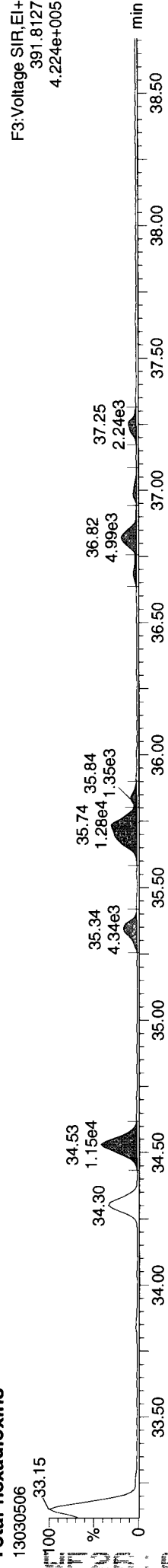
**13C-123478-HxCDD**



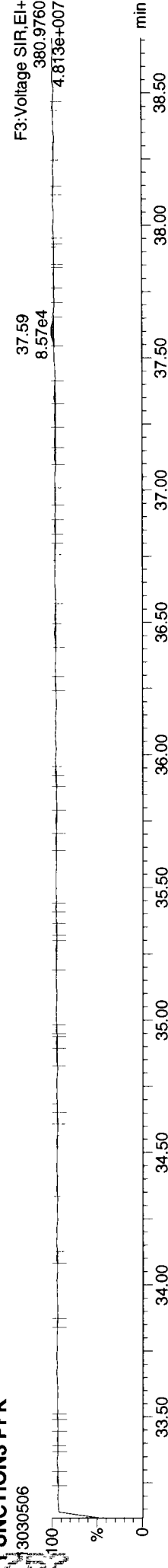
**Total-hexadioxins**



**Total-hexadioxins**



**FUNCTION3 PFK**

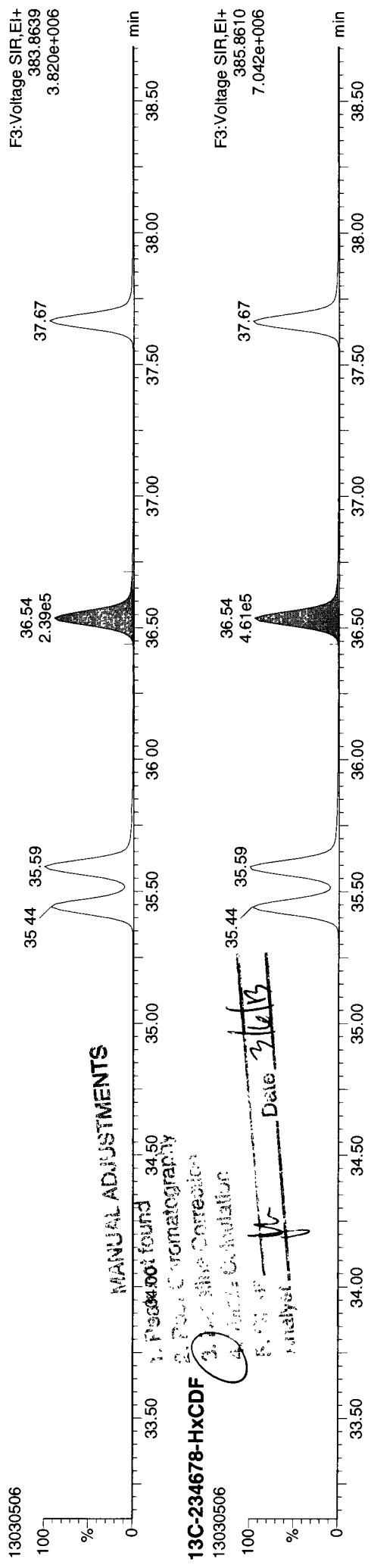


Quantity Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qid  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

MassLynx 4.1 SCN 714

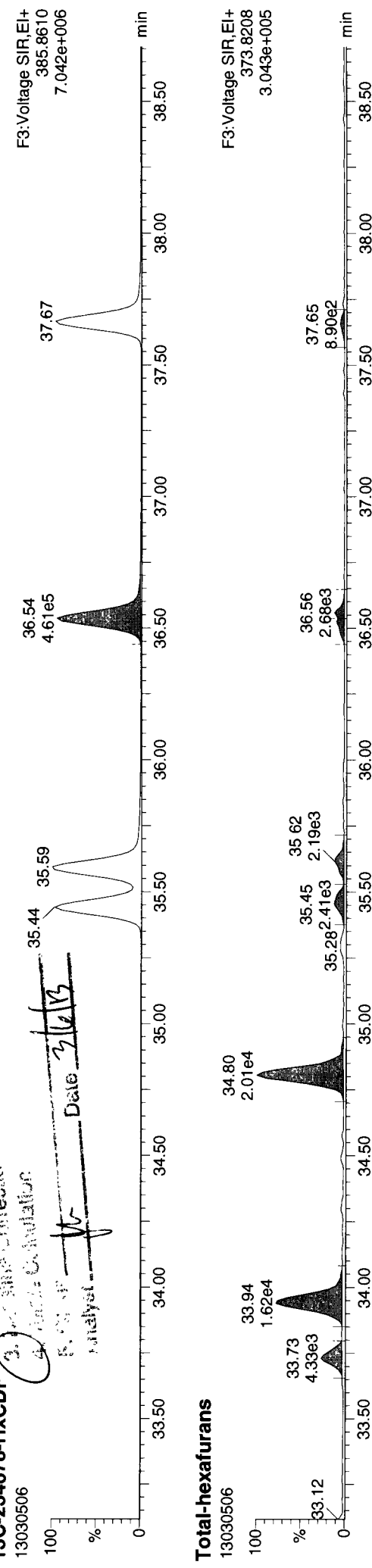
ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF



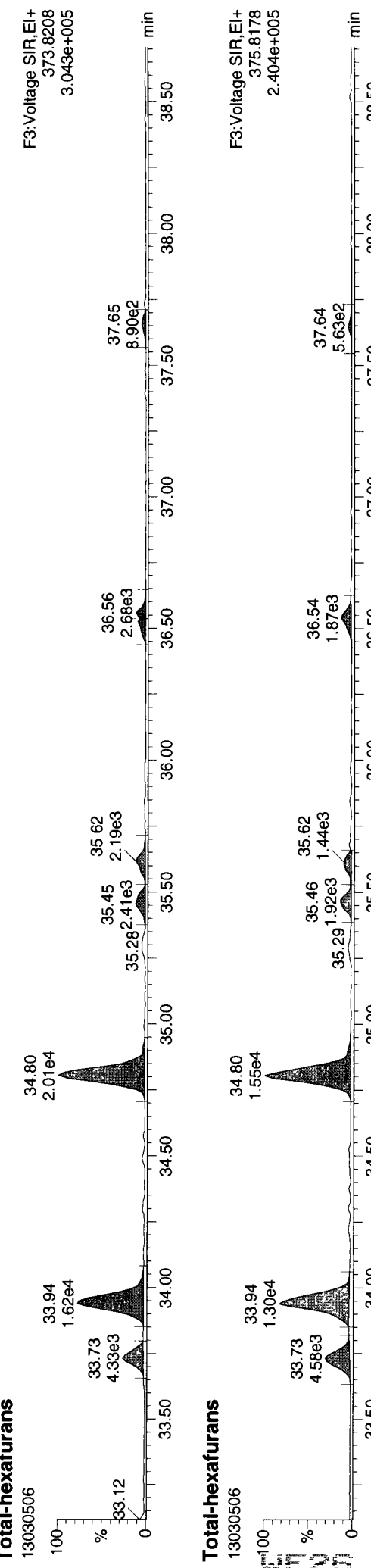
F3: Voltage SIR, EI+  
383.8639  
3.820e+006

13C-234678-HxCDF



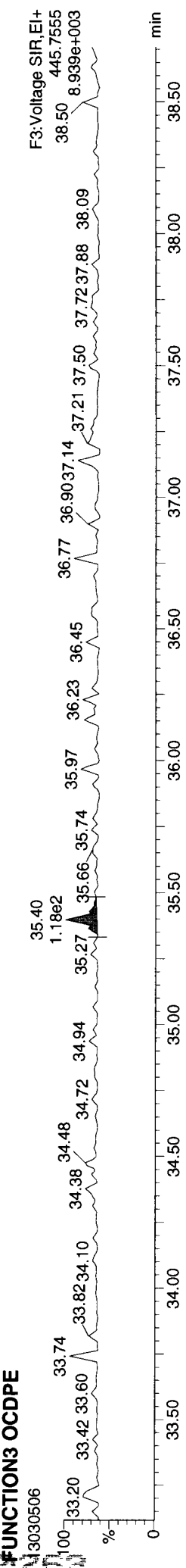
F3: Voltage SIR, EI+  
385.8610  
7.042e+006

Total-hexafurans



F3: Voltage SIR, EI+  
375.8178  
2.404e+005

FUNCTION3 OCDFE



F3: Voltage SIR, EI+  
38.50 445.7555  
8.939e+003

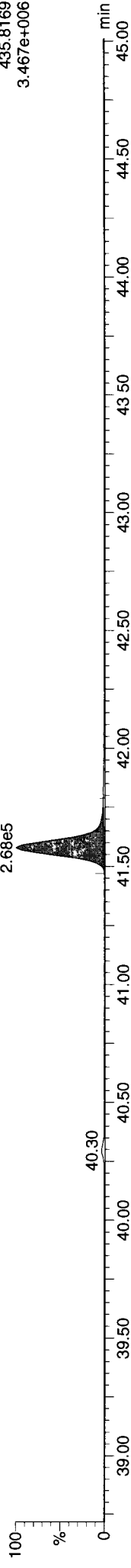
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

13030506

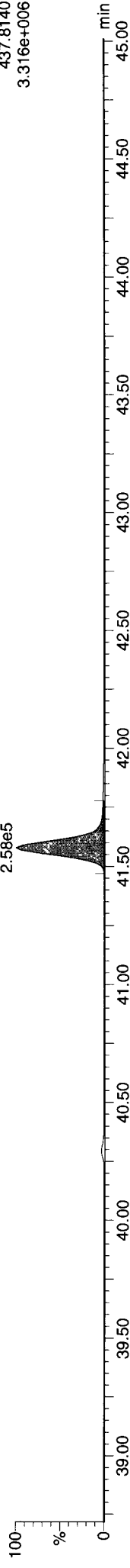
F4: Voltage SIR, EI+  
435.8169  
3.467e+006



13C-1234678-HpCDD

13030506

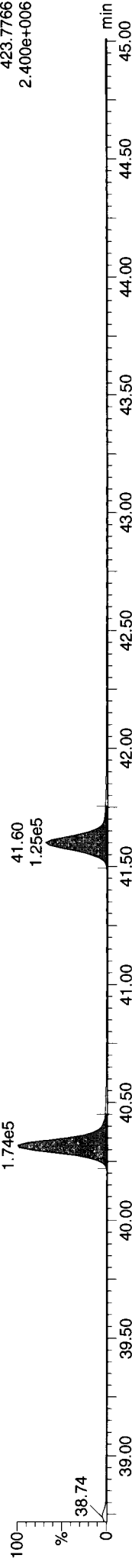
F4: Voltage SIR, EI+  
437.8140  
3.316e+006



Total-heptadioxins

13030506

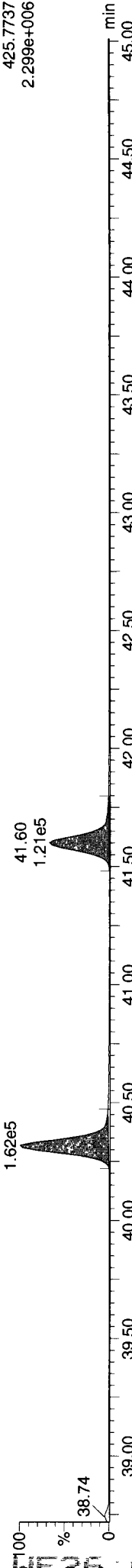
F4: Voltage SIR, EI+  
423.7766  
2.400e+006



Total-heptadioxins

13030506

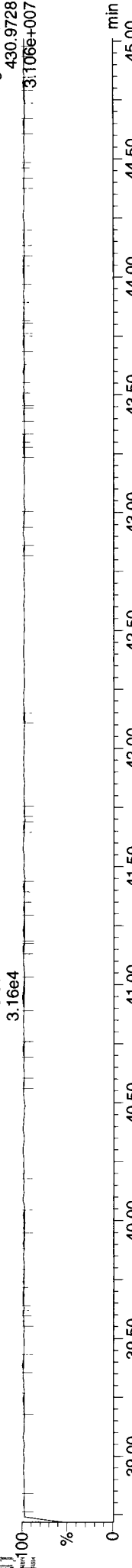
F4: Voltage SIR, EI+  
425.7737  
2.299e+006



FUNCTION4 PFK

13030506

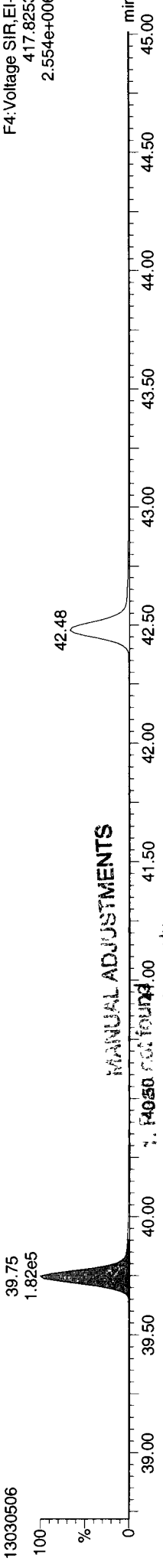
F4: Voltage SIR, EI+  
430.9728  
3.106e+007



**Quantify Sample Report**      **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305\DATA1.qid  
 Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

**13C-1234678-HpCDF**

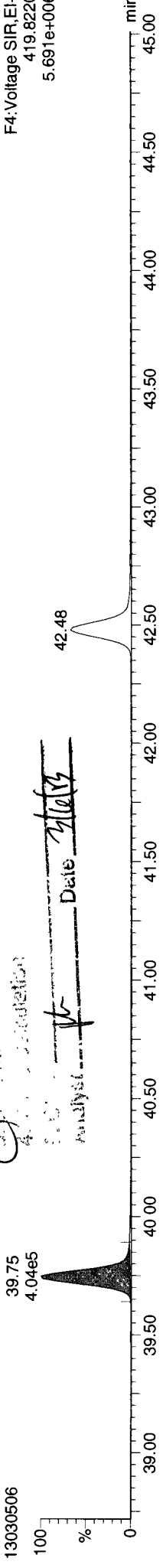


F4: Voltage SIR, EI+  
417.8253  
2.554e+006

**MANUAL ADJUSTMENTS**

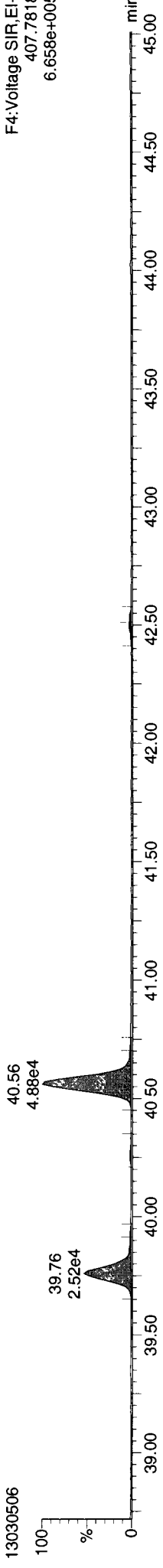
1. 14050 not found  
 2. GC Chromatography  
 3. 13C-1234678  
 4. 13C-1234678  
 5. GC Chromatography  
 Analyst: pk      Date: 3/6/13

**13C-1234678-HpCDF**



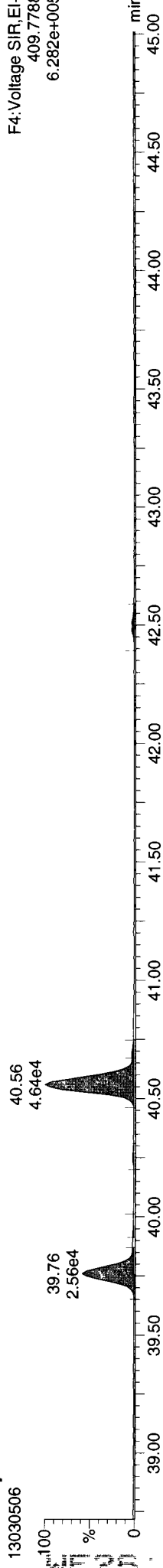
F4: Voltage SIR, EI+  
419.8220  
5.691e+006

**Total-heptafurans**



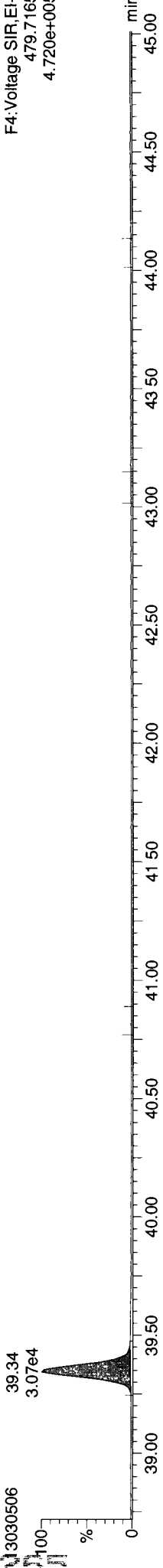
F4: Voltage SIR, EI+  
407.7818  
6.658e+005

**Total-heptafurans**



F4: Voltage SIR, EI+  
409.7788  
6.282e+005

**FUNCTION4 NCDPE**

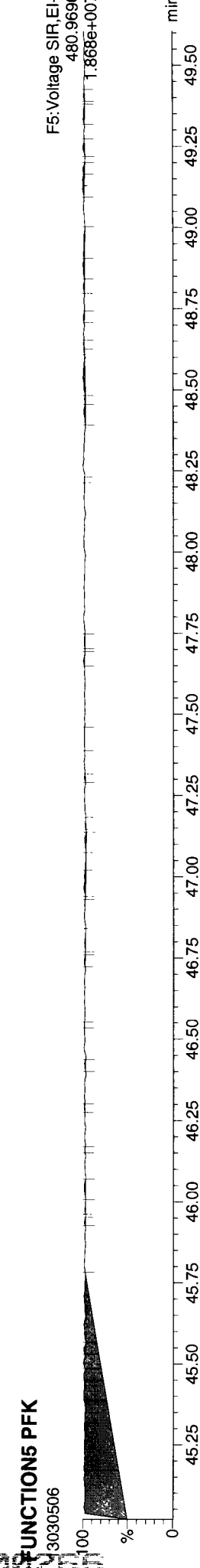
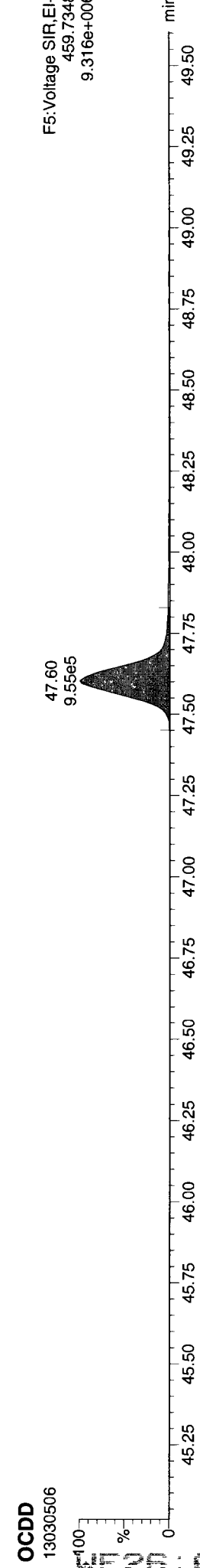
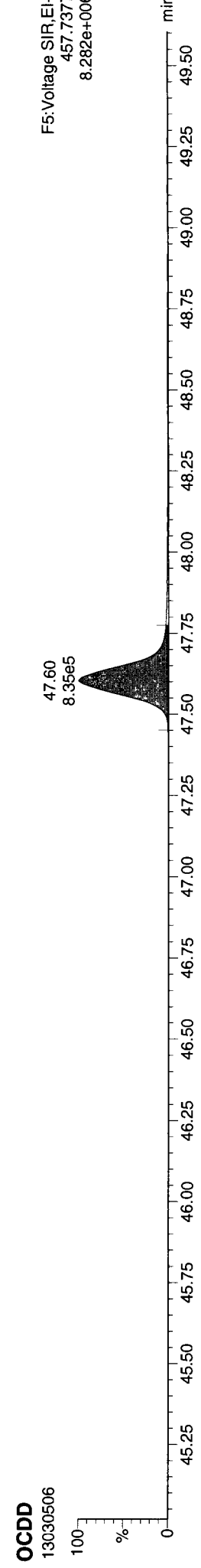
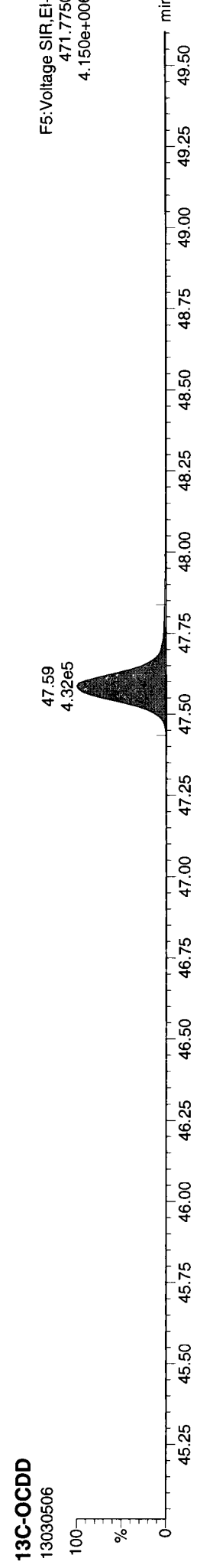
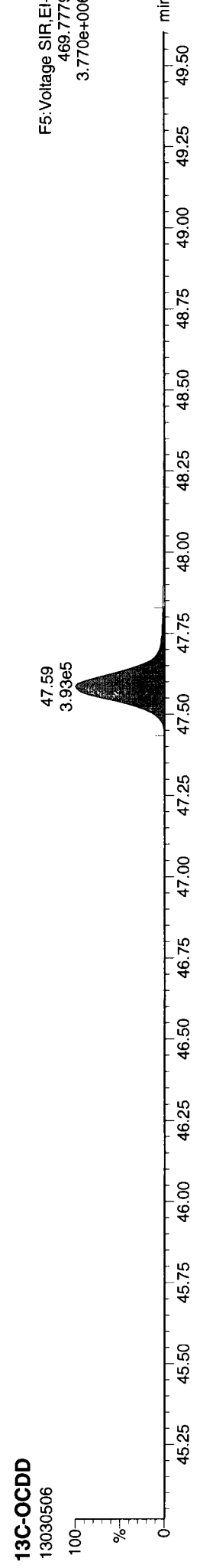


F4: Voltage SIR, EI+  
479.7165  
4.720e+005

13030506  
 39.34  
 3.07e4

**Quantify Sample Report** MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13030505DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

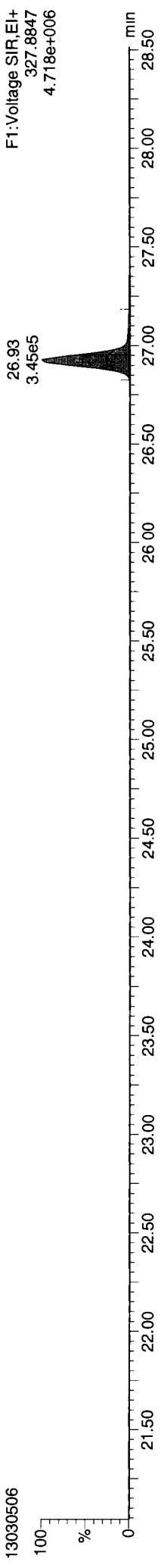
**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**



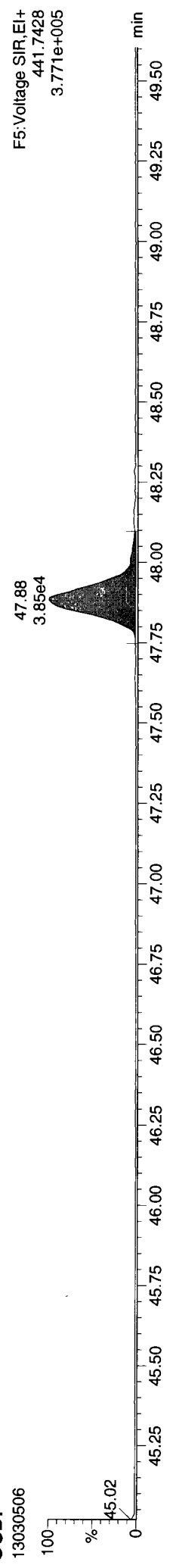
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:52 Pacific Standard Time

**ID: WF26A, Name: 13030506, Date: 05-Mar-2013, Time: 15:59:22, Conditions: AUTOSPEC01, User: pk**

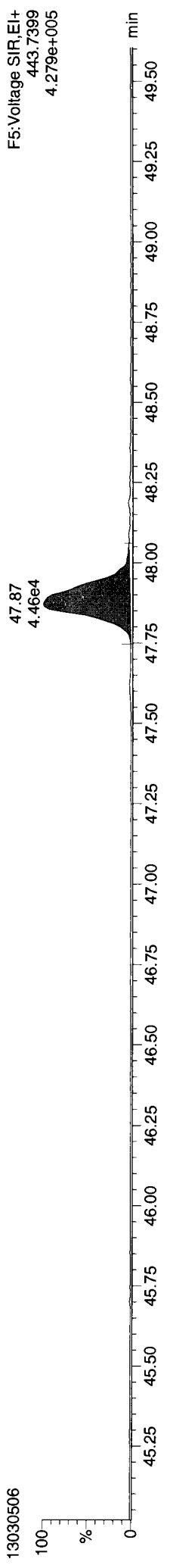
**37CL-2378-TCDD**



**OCDF**



**OCDF**



**FUNCTION5 DCDPE**



13030506

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26B  
 Lab.File ID: 13030507  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.93	0.256	0.232	
12378-PeCDD	356/358	32.04	0.418		
123478-HxCDD	390/392	36.70	0.425		
123678-HxCDD	390/392	36.82	2.06		
123789-HxCDD	390/392	37.25	1.20		
1234678-HpCDD	424/426	41.60	34.3		
OCDD	458/460	47.61	301		
2378-TCDF	304/306	26.30	0.286	0.255	
12378-PeCDF	340/342	30.43	0.176	0.150	
23478-PeCDF	340/342	31.78	0.242		
123478-HxCDF	374/376	35.46	0.532	0.446	
234678-HxCDF	374/376	36.56	0.516		
123678-HxCDF	374/376	35.60	0.348	0.310	
123789-HxCDF	374/376	0.00			0.087
1234678-HpCDF	408/410	39.76	7.57		
1234789-HpCDF	408/410	42.51	0.426		
OCDF	442/444	47.88	19.1		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.







Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RFIF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
35	Total-tetrafurans	303.9016	24.52	1966.441	0.921	0.176		0.93	0.77	YES	10.4
35	Total-tetrafurans	303.9016	24.29	7147.511	0.921	0.639		0.77	0.77	NO	24.7
35	Total-tetrafurans	303.9016	24.09	2546.296	0.921	0.227		0.62	0.77	YES	9.6
35	Total-tetrafurans	303.9016	24.03	2847.278	0.921	0.254		0.76	0.77	NO	13.0
35	Total-tetrafurans	303.9016	23.82	4675.392	0.921	0.418		0.63	0.77	YES	14.4
35	Total-tetrafurans	303.9016	23.63	14669.722	0.921	1.311		0.74	0.77	NO	60.2
35	Total-tetrafurans	303.9016	23.05	1779.133	0.921	0.159		0.66	0.77	NO	8.1
35	Total-tetrafurans	303.9016	22.78	1982.888	0.921	0.177		0.69	0.77	NO	9.5
35	Total-tetrafurans	303.9016	26.53	4514.267	0.921	0.403		0.66	0.77	NO	15.3
35	Total-tetrafurans	303.9016	26.44	1771.841	0.921	0.158		0.74	0.77	NO	7.1
1	2378-TCDF	303.9016	26.30	3203.348	0.921	0.286	0.255	0.63	0.77	YES	12.3
35	Total-tetrafurans	303.9016	26.11	1341.830	0.921	0.120		1.70	0.77	YES	8.6
35	Total-tetrafurans	303.9016	26.05	1089.874	0.921	0.097		0.74	0.77	NO	6.5
35	Total-tetrafurans	303.9016	25.78	1193.661	0.921	0.107		0.64	0.77	YES	4.9
35	Total-tetrafurans	303.9016	25.60	1039.436	0.921	0.093		0.93	0.77	YES	4.8
35	Total-tetrafurans	303.9016	25.36	2254.478	0.921	0.201		1.19	0.77	YES	10.8
35	Total-tetrafurans	303.9016	25.20	6956.701	0.921	0.622		0.83	0.77	NO	35.8
35	Total-tetrafurans	303.9016	25.05	1554.818	0.921	0.139		0.30	0.77	YES	4.8
35	Total-tetrafurans	303.9016	24.96	3333.880	0.921	0.298		0.65	0.77	YES	10.6
35	Total-tetrafurans	303.9016	23.94	2248.267	0.921	0.201		0.71	0.77	NO	12.2

*pk*

PP

#	Name	Trace	RT	Abs Resp	RFIF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
36	Total-penta1	339.8597	27.71	38238.950		4.419		1.55	1.55	NO	440.5

PF

#	Name	Trace	RT	Abs Resp	RFIF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
3	23478-PeCDF	339.8597	31.78	2116.646	0.943	0.242	0.242	1.63	1.55	NO	15.0
37	Total-pentafurans	339.8597	31.65	1955.950	0.927	0.223		2.87	1.55	YES	13.7
37	Total-pentafurans	339.8597	31.52	1010.093	0.927	0.115		3.47	1.55	YES	12.0
37	Total-pentafurans	339.8597	30.65	2205.616	0.927	0.252		1.18	1.55	YES	16.5
2	12378-PeCDF	339.8597	30.43	1539.369	0.912	0.176	0.150	1.08	1.55	YES	10.4
37	Total-pentafurans	339.8597	30.08	4430.070	0.927	0.506		2.18	1.55	YES	34.7
37	Total-pentafurans	339.8597	29.36	10860.823	0.927	1.241		1.51	1.55	NO	56.7
37	Total-pentafurans	339.8597	29.29	3718.141	0.927	0.425		1.84	1.55	YES	42.1
37	Total-pentafurans	339.8597	29.16	3337.901	0.927	0.381		1.19	1.55	YES	15.7

*pk*

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HF

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPG	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
5	234678-HxCDF	373.8208	36.56	3774.099	1.073	0.516	0.516	1.10	1.24	NO	7.5
38	Total-hexafurans	373.8208	35.99	425.505	1.062	0.055		1.17	1.24	NO	2.5
6	123678-HxCDF	373.8208	35.60	2869.037	1.056	0.348	0.310	1.52	1.24	YES	10.1
4	123478-HxCDF	373.8208	35.46	4264.568	1.101	0.532	0.446	0.87	1.24	YES	10.6
38	Total-hexafurans	373.8208	34.82	26418.254	1.062	3.423		1.14	1.24	NO	70.8
38	Total-hexafurans	373.8208	33.95	28152.915	1.062	3.648		1.14	1.24	NO	76.5
38	Total-hexafurans	373.8208	33.73	9041.049	1.062	1.171		1.35	1.24	NO	25.3

*pk*

HPF

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPG	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
9	1234789-HpCDF	407.7818	42.51	2439.176	1.224	0.426	0.426	1.03	1.05	NO	14.1
39	Total-heptafurans	407.7818	40.57	92786.985	1.231	14.414		1.04	1.05	NO	570.3
39	Total-heptafurans	407.7818	40.26	1752.639	1.231	0.272		0.66	1.05	YES	9.3
39	Total-heptafurans	407.7818	40.01	199.278	1.231	0.031		1.33	1.05	YES	2.9
8	1234678-HpCDF	407.7818	39.76	54175.784	1.238	7.567	7.567	1.01	1.05	NO	323.5

*pk*

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld

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## Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Resp	RRF	M	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat	1 <sup>st</sup> R	SN
35	Total-tetrafurans	303.9016	24.52	1966.441	0.921		0.176		0.93	0.77	YES	10.4
35	Total-tetrafurans	303.9016	24.29	7147.511	0.921		0.639		0.77	0.77	NO	24.7
35	Total-tetrafurans	303.9016	24.09	2546.296	0.921		0.227		0.62	0.77	YES	9.6
35	Total-tetrafurans	303.9016	24.03	2847.278	0.921		0.254		0.76	0.77	NO	13.0
35	Total-tetrafurans	303.9016	23.82	4675.392	0.921		0.418		0.63	0.77	YES	14.4
35	Total-tetrafurans	303.9016	23.63	14669.722	0.921		1.311		0.74	0.77	NO	60.2
35	Total-tetrafurans	303.9016	23.05	1779.133	0.921		0.159		0.66	0.77	NO	8.1
35	Total-tetrafurans	303.9016	22.78	1982.888	0.921		0.177		0.69	0.77	NO	9.5
35	Total-tetrafurans	303.9016	26.53	4514.267	0.921		0.403		0.66	0.77	NO	15.3
35	Total-tetrafurans	303.9016	26.44	1771.841	0.921		0.158		0.74	0.77	NO	7.1
1	2378-TCDF	303.9016	26.30	3203.348	0.921		0.286	0.255	0.63	0.77	YES	12.3
35	Total-tetrafurans	303.9016	26.11	1341.830	0.921		0.120		1.70	0.77	YES	8.6
35	Total-tetrafurans	303.9016	26.05	1089.874	0.921		0.097		0.74	0.77	NO	6.5
35	Total-tetrafurans	303.9016	25.78	1193.661	0.921		0.107		0.64	0.77	YES	4.9
35	Total-tetrafurans	303.9016	25.60	1039.436	0.921		0.093		0.93	0.77	YES	4.8
35	Total-tetrafurans	303.9016	25.36	2254.478	0.921		0.201		1.19	0.77	YES	10.8
35	Total-tetrafurans	303.9016	25.20	6956.701	0.921		0.622		0.83	0.77	NO	35.8
35	Total-tetrafurans	303.9016	25.05	1554.818	0.921		0.139		0.30	0.77	YES	4.8
35	Total-tetrafurans	303.9016	24.96	3333.880	0.921		0.298		0.65	0.77	YES	10.6
3	23478-PeCDF	339.8597	31.78	2116.646	0.943		0.242	0.242	1.63	1.55	NO	15.0
37	Total-pentafurans	339.8597	31.65	1955.950	0.927		0.223		2.87	1.55	YES	13.7
37	Total-pentafurans	339.8597	31.52	1010.093	0.927		0.115		3.47	1.55	YES	12.0
37	Total-pentafurans	339.8597	30.65	2205.616	0.927		0.252		1.18	1.55	YES	16.5
2	12378-PeCDF	339.8597	30.43	1539.369	0.912		0.176	0.150	1.08	1.55	YES	10.4
37	Total-pentafurans	339.8597	30.08	4430.070	0.927		0.506		2.18	1.55	YES	34.7
37	Total-pentafurans	339.8597	29.36	10860.823	0.927		1.241		1.51	1.55	NO	56.7
37	Total-pentafurans	339.8597	29.29	3718.141	0.927		0.425		1.84	1.55	YES	42.1
37	Total-pentafurans	339.8597	29.16	3337.901	0.927		0.381		1.19	1.55	YES	15.7
5	234678-HxCDF	373.8208	36.56	3774.099	1.073		0.516	0.516	1.10	1.24	NO	7.5
38	Total-hexafurans	373.8208	35.99	425.505	1.062		0.055		1.17	1.24	NO	2.5
6	123678-HxCDF	373.8208	35.60	2869.037	1.056		0.348	0.310	1.52	1.24	YES	10.1
4	123478-HxCDF	373.8208	35.46	4264.568	1.101		0.532	0.446	0.87	1.24	YES	10.6
38	Total-hexafurans	373.8208	34.82	26418.254	1.062		3.423		1.14	1.24	NO	70.8
38	Total-hexafurans	373.8208	33.95	28152.915	1.062		3.648		1.14	1.24	NO	76.5
38	Total-hexafurans	373.8208	33.73	9041.049	1.062		1.171		1.35	1.24	NO	25.3
9	1234789-HpCDF	407.7818	42.51	2439.176	1.224		0.426	0.426	1.03	1.05	NO	14.1
39	Total-heptafurans	407.7818	40.57	92786.985	1.231		14.414		1.04	1.05	NO	570.3
39	Total-heptafurans	407.7818	40.26	1752.639	1.231		0.272		0.66	1.05	YES	9.3
39	Total-heptafurans	407.7818	40.01	199.278	1.231		0.031		1.33	1.05	YES	2.9
8	1234678-HpCDF	407.7818	39.76	54175.784	1.238		7.567	7.567	1.01	1.05	NO	323.5
10	OCDF	441.7428	47.88	91640.789	1.162		19.139	19.139	0.86	0.89	NO	295.5
36	Total-penta1	339.8597	27.71	38238.950			4.419		1.55	1.55	NO	440.5
35	Total-tetrafurans	303.9016	23.94	2248.267	0.921		0.201		0.71	0.77	NO	12.2

Quantify Totals Report MassLynx 4.1 SCN 714

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TD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rafi	1° Rafi	1° R.	SN
41	Total-tetradoxins	319.8965	24.06	7112.315	1.106	0.804		0.83	0.77	NO	47.5
41	Total-tetradoxins	319.8965	27.50	906.382	1.106	0.102		0.47	0.77	YES	4.2
41	Total-tetradoxins	319.8965	27.06	963.641	1.106	0.109		0.30	0.77	YES	5.7
11	2378-TCDD	319.8965	26.93	2265.682	1.106	0.256	0.232	0.65	0.77	YES	14.9
41	Total-tetradoxins	319.8965	26.54	1796.474	1.106	0.203		1.04	0.77	YES	12.1
41	Total-tetradoxins	319.8965	26.11	1085.376	1.106	0.123		0.74	0.77	NO	7.2
41	Total-tetradoxins	319.8965	25.54	2435.633	1.106	0.275		0.93	0.77	YES	17.3
41	Total-tetradoxins	319.8965	25.27	1505.212	1.106	0.170		1.38	0.77	YES	12.1
41	Total-tetradoxins	319.8965	25.03	1302.508	1.106	0.147		0.60	0.77	YES	9.2
41	Total-tetradoxins	319.8965	24.54	704.893	1.106	0.080		1.03	0.77	YES	8.4
41	Total-tetradoxins	319.8965	24.33	4180.698	1.106	0.473		0.81	0.77	NO	30.4

h

PD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rafi	1° Rafi	1° R.	SN
42	Total-pentadoxins	355.8546	31.35	863.390	1.001	0.144		1.03	1.55	YES	2.9
42	Total-pentadoxins	355.8546	30.98	1484.010	1.001	0.248		1.22	1.55	YES	3.3
42	Total-pentadoxins	355.8546	30.79	3013.619	1.001	0.504		1.73	1.55	NO	13.2
42	Total-pentadoxins	355.8546	30.65	2428.928	1.001	0.406		2.12	1.55	YES	8.7
42	Total-pentadoxins	355.8546	30.44	3131.111	1.001	0.523		2.11	1.55	YES	11.5
42	Total-pentadoxins	355.8546	29.83	1416.074	1.001	0.237		2.86	1.55	YES	6.9
42	Total-pentadoxins	355.8546	29.30	8912.516	1.001	1.489		1.53	1.55	NO	28.7
42	Total-pentadoxins	355.8546	29.27	5312.179	1.001	0.888		2.02	1.55	YES	29.9
42	Total-pentadoxins	355.8546	32.44	581.267	1.001	0.097		1.71	1.55	NO	3.2
12	12378-PeCDD	355.8546	32.04	2498.767	1.001	0.418	0.418	1.52	1.55	NO	9.6

h

HD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rafi	1° Rafi	1° R.	SN
15	123789-HxCDD	389.8157	37.25	6772.933	0.904	1.200	1.200	1.42	1.24	NO	25.3
43	Total-hexadoxins	389.8157	37.01	2230.934	0.937	0.381		1.58	1.24	YES	8.4
14	123678-HxCDD	389.8157	36.82	12395.260	0.929	2.060	2.060	1.17	1.24	NO	40.8
13	123478-HxCDD	389.8157	36.70	2499.292	0.978	0.425	0.425	1.23	1.24	NO	8.5
43	Total-hexadoxins	389.8157	35.74	50490.508	0.937	8.631		1.22	1.24	NO	129.2
43	Total-hexadoxins	389.8157	35.35	8783.012	0.937	1.501		1.15	1.24	NO	33.2
43	Total-hexadoxins	389.8157	34.54	24991.594	0.937	4.272		1.28	1.24	NO	93.8

h

HPD

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1° Rafi	1° Rafi	1° R.	SN
16	1234678-HpCDD	423.7766	41.60	183252.234	1.029	34.252	34.252	1.07	1.05	NO	454.4
44	Total-heptadoxins	423.7766	40.32	220502.446	1.029	41.214		1.05	1.05	NO	590.2

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## Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs Resp	RRF	M.L.	pg	EMPC	1 <sup>st</sup> Ref.	1 <sup>st</sup> Ref.	1 <sup>st</sup> R.	SN
41	Total-tetradoxins	319.8965	24.06	7112.315	1.106	0.804			0.83	0.77	NO	47.5
45	Total-Dioxins	319.8965	27.81	21309.844	0.994	2.681			0.78	0.77	NO	159.0
41	Total-tetradoxins	319.8965	27.50	906.382	1.106	0.102			0.47	0.77	YES	4.2
41	Total-tetradoxins	319.8965	27.06	963.641	1.106	0.109			0.30	0.77	YES	5.7
11	2378-TCDD	319.8965	26.93	2265.682	1.106	0.256	0.232		0.65	0.77	YES	14.9
41	Total-tetradoxins	319.8965	26.54	1796.474	1.106	0.203			1.04	0.77	YES	12.1
41	Total-tetradoxins	319.8965	26.11	1085.376	1.106	0.123			0.74	0.77	NO	7.2
41	Total-tetradoxins	319.8965	25.54	2435.633	1.106	0.275			0.93	0.77	YES	17.3
41	Total-tetradoxins	319.8965	25.27	1505.212	1.106	0.170			1.38	0.77	YES	12.1
41	Total-tetradoxins	319.8965	25.03	1302.508	1.106	0.147			0.60	0.77	YES	9.2
41	Total-tetradoxins	319.8965	24.54	704.893	1.106	0.080			1.03	0.77	YES	8.4
41	Total-tetradoxins	319.8965	24.33	4180.698	1.106	0.473			0.81	0.77	NO	30.4
42	Total-pentadoxins	355.8546	31.35	863.390	1.001	0.144			1.03	1.55	YES	2.9
42	Total-pentadoxins	355.8546	30.98	1484.010	1.001	0.248			1.22	1.55	YES	3.3
42	Total-pentadoxins	355.8546	30.79	3013.619	1.001	0.504			1.73	1.55	NO	13.2
42	Total-pentadoxins	355.8546	30.65	2428.928	1.001	0.406			2.12	1.55	YES	8.7
42	Total-pentadoxins	355.8546	30.44	3131.111	1.001	0.523			2.11	1.55	YES	11.5
42	Total-pentadoxins	355.8546	29.83	1416.074	1.001	0.237			2.86	1.55	YES	6.9
42	Total-pentadoxins	355.8546	29.30	8912.516	1.001	1.489			1.53	1.55	NO	28.7
42	Total-pentadoxins	355.8546	29.27	5312.179	1.001	0.888			2.02	1.55	YES	29.9
42	Total-pentadoxins	355.8546	32.44	581.267	1.001	0.097			1.71	1.55	NO	3.2
12	12378-PeCDD	355.8546	32.04	2498.767	1.001	0.418	0.418		1.52	1.55	NO	9.6
15	123789-HxCDD	389.8157	37.25	6772.933	0.904	1.200	1.200		1.42	1.24	NO	25.3
43	Total-hexadoxins	389.8157	37.01	2230.934	0.937	0.381			1.58	1.24	YES	8.4
14	123678-HxCDD	389.8157	36.82	12395.260	0.929	2.060	2.060		1.17	1.24	NO	40.8
13	123478-HxCDD	389.8157	36.70	2499.292	0.978	0.425	0.425		1.23	1.24	NO	8.5
43	Total-hexadoxins	389.8157	35.74	50490.508	0.937	8.631			1.22	1.24	NO	129.2
43	Total-hexadoxins	389.8157	35.35	8783.012	0.937	1.501			1.15	1.24	NO	33.2
43	Total-hexadoxins	389.8157	34.54	24991.594	0.937	4.272			1.28	1.24	NO	93.8
16	1234678-HpCDD	423.7766	41.60	183252.234	1.029	34.252	34.252		1.07	1.05	NO	454.4
44	Total-heptadoxins	423.7766	40.32	220502.446	1.029	41.214			1.05	1.05	NO	590.2
17	OCDD	457.7377	47.61	1254606.500	1.011	301.100	301....		0.87	0.89	NO	1455.5

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> FL	SN
35	Total-tetrafurans	303.9016	24.52	1966.441	0.921	0.176		0.93	0.77	YES	10.4
35	Total-tetrafurans	303.9016	24.29	7147.511	0.921	0.639		0.77	0.77	NO	24.7
35	Total-tetrafurans	303.9016	24.09	2546.296	0.921	0.227		0.62	0.77	YES	9.6
35	Total-tetrafurans	303.9016	24.03	2847.278	0.921	0.254		0.76	0.77	NO	13.0
35	Total-tetrafurans	303.9016	23.82	4675.392	0.921	0.418		0.63	0.77	YES	14.4
35	Total-tetrafurans	303.9016	23.63	14669.722	0.921	1.311		0.74	0.77	NO	60.2
35	Total-tetrafurans	303.9016	23.05	1779.133	0.921	0.159		0.66	0.77	NO	8.1
35	Total-tetrafurans	303.9016	22.78	1982.888	0.921	0.177		0.69	0.77	NO	9.5
35	Total-tetrafurans	303.9016	26.53	4514.267	0.921	0.403		0.66	0.77	NO	15.3
35	Total-tetrafurans	303.9016	26.44	1771.841	0.921	0.158		0.74	0.77	NO	7.1
1	2378-TCDF	303.9016	26.30	3203.348	0.921	0.286	0.255	0.63	0.77	YES	12.3
35	Total-tetrafurans	303.9016	26.11	1341.830	0.921	0.120		1.70	0.77	YES	8.6
35	Total-tetrafurans	303.9016	26.05	1089.874	0.921	0.097		0.74	0.77	NO	6.5
35	Total-tetrafurans	303.9016	25.78	1193.661	0.921	0.107		0.64	0.77	YES	4.9
35	Total-tetrafurans	303.9016	25.60	1039.436	0.921	0.093		0.93	0.77	YES	4.8
35	Total-tetrafurans	303.9016	25.36	2254.478	0.921	0.201		1.19	0.77	YES	10.8
35	Total-tetrafurans	303.9016	25.20	6956.701	0.921	0.622		0.83	0.77	NO	35.8
35	Total-tetrafurans	303.9016	25.05	1554.818	0.921	0.139		0.30	0.77	YES	4.8
35	Total-tetrafurans	303.9016	24.96	3333.880	0.921	0.298		0.65	0.77	YES	10.6
3	23478-PeCDF	339.8597	31.78	2116.646	0.943	0.242	0.242	1.63	1.55	NO	15.0
37	Total-pentafurans	339.8597	31.65	1955.950	0.927	0.223		2.87	1.55	YES	13.7
37	Total-pentafurans	339.8597	31.52	1010.093	0.927	0.115		3.47	1.55	YES	12.0
37	Total-pentafurans	339.8597	30.65	2205.616	0.927	0.252		1.18	1.55	YES	16.5
2	12378-PeCDF	339.8597	30.43	1539.369	0.912	0.176	0.150	1.08	1.55	YES	10.4
37	Total-pentafurans	339.8597	30.08	4430.070	0.927	0.506		2.18	1.55	YES	34.7
37	Total-pentafurans	339.8597	29.36	10860.823	0.927	1.241		1.51	1.55	NO	56.7
37	Total-pentafurans	339.8597	29.29	3718.141	0.927	0.425		1.84	1.55	YES	42.1
37	Total-pentafurans	339.8597	29.16	3337.901	0.927	0.381		1.19	1.55	YES	15.7
5	234678-HxCDF	373.8208	36.56	3774.099	1.073	0.516	0.516	1.10	1.24	NO	7.5
38	Total-hexafurans	373.8208	35.99	425.505	1.062	0.055		1.17	1.24	NO	2.5
6	123678-HxCDF	373.8208	35.60	2869.037	1.056	0.348	0.310	1.52	1.24	YES	10.1
4	123478-HxCDF	373.8208	35.46	4264.568	1.101	0.532	0.446	0.87	1.24	YES	10.6
38	Total-hexafurans	373.8208	34.82	26418.254	1.062	3.423		1.14	1.24	NO	70.8
38	Total-hexafurans	373.8208	33.95	28152.915	1.062	3.648		1.14	1.24	NO	76.5
38	Total-hexafurans	373.8208	33.73	9041.049	1.062	1.171		1.35	1.24	NO	25.3
9	1234789-HpCDF	407.7818	42.51	2439.176	1.224	0.426	0.426	1.03	1.05	NO	14.1
39	Total-heptafurans	407.7818	40.57	92786.985	1.231	14.414		1.04	1.05	NO	570.3
39	Total-heptafurans	407.7818	40.26	1752.639	1.231	0.272		0.66	1.05	YES	9.3
39	Total-heptafurans	407.7818	40.01	199.278	1.231	0.031		1.33	1.05	YES	2.9
8	1234678-HpCDF	407.7818	39.76	54175.784	1.238	7.567	7.567	1.01	1.05	NO	323.5
10	OCDF	441.7428	47.88	91640.789	1.162	19.139	19.139	0.86	0.89	NO	295.5
36	Total-penta1	339.8597	27.71	38238.950		4.419		1.55	1.55	NO	440.5
35	Total-tetrafurans	303.9016	23.94	2248.267	0.921	0.201		0.71	0.77	NO	12.2
41	Total-tetradiioxins	319.8965	24.06	7112.315	1.106	0.804		0.83	0.77	NO	47.5
45	Total-Dioxins	319.8965	27.81	21309.844	0.994	2.681		0.78	0.77	NO	159.0
41	Total-tetradiioxins	319.8965	27.50	906.382	1.106	0.102		0.47	0.77	YES	4.2
41	Total-tetradiioxins	319.8965	27.06	963.641	1.106	0.109		0.30	0.77	YES	5.7
11	2378-TCDD	319.8965	26.93	2265.682	1.106	0.256	0.232	0.65	0.77	YES	14.9
41	Total-tetradiioxins	319.8965	26.54	1796.474	1.106	0.203		1.04	0.77	YES	12.1



## 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° Rati...	1° Rati...	1° R...	SN
41	Total-tetradoxins	319.8965	26.11	1085.376	1.106	0.123		0.74	0.77	NO	7.2
41	Total-tetradoxins	319.8965	25.54	2435.633	1.106	0.275		0.93	0.77	YES	17.3
41	Total-tetradoxins	319.8965	25.27	1505.212	1.106	0.170		1.38	0.77	YES	12.1
41	Total-tetradoxins	319.8965	25.03	1302.508	1.106	0.147		0.60	0.77	YES	9.2
41	Total-tetradoxins	319.8965	24.54	704.893	1.106	0.080		1.03	0.77	YES	8.4
41	Total-tetradoxins	319.8965	24.33	4180.698	1.106	0.473		0.81	0.77	NO	30.4
42	Total-pentadoxins	355.8546	31.35	863.390	1.001	0.144		1.03	1.55	YES	2.9
42	Total-pentadoxins	355.8546	30.98	1484.010	1.001	0.248		1.22	1.55	YES	3.3
42	Total-pentadoxins	355.8546	30.79	3013.619	1.001	0.504		1.73	1.55	NO	13.2
42	Total-pentadoxins	355.8546	30.65	2428.928	1.001	0.406		2.12	1.55	YES	8.7
42	Total-pentadoxins	355.8546	30.44	3131.111	1.001	0.523		2.11	1.55	YES	11.5
42	Total-pentadoxins	355.8546	29.83	1416.074	1.001	0.237		2.86	1.55	YES	6.9
42	Total-pentadoxins	355.8546	29.30	8912.516	1.001	1.489		1.53	1.55	NO	28.7
42	Total-pentadoxins	355.8546	29.27	5312.179	1.001	0.888		2.02	1.55	YES	29.9
42	Total-pentadoxins	355.8546	32.44	581.267	1.001	0.097		1.71	1.55	NO	3.2
12	12378-PeCDD	355.8546	32.04	2498.767	1.001	0.418	0.418	1.52	1.55	NO	9.6
15	123789-HxCDD	389.8157	37.25	6772.933	0.904	1.200	1.200	1.42	1.24	NO	25.3
43	Total-hexadoxins	389.8157	37.01	2230.934	0.937	0.381		1.58	1.24	YES	8.4
14	123678-HxCDD	389.8157	36.82	12395.260	0.929	2.060	2.060	1.17	1.24	NO	40.8
13	123478-HxCDD	389.8157	36.70	2499.292	0.978	0.425	0.425	1.23	1.24	NO	8.5
43	Total-hexadoxins	389.8157	35.74	50490.508	0.937	8.631		1.22	1.24	NO	129.2
43	Total-hexadoxins	389.8157	35.35	8783.012	0.937	1.501		1.15	1.24	NO	33.2
43	Total-hexadoxins	389.8157	34.54	24991.594	0.937	4.272		1.28	1.24	NO	93.8
16	1234678-HpCDD	423.7766	41.60	183252.234	1.029	34.252	34.252	1.07	1.05	NO	454.4
44	Total-heptadoxins	423.7766	40.32	220502.446	1.029	41.214		1.05	1.05	NO	590.2
17	OCDD	457.7377	47.61	1254606.500	1.011	301.100	301....	0.87	0.89	NO	1455.5

## PFK1

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
48	FUNCTION1 PFK	330.9792	24.20	0.000							1.4
48	FUNCTION1 PFK	330.9792	23.37	0.000							5.0
48	FUNCTION1 PFK	330.9792	21.92	0.000							10.2
48	FUNCTION1 PFK	330.9792	21.83	0.000							13.2
48	FUNCTION1 PFK	330.9792	21.66	0.000							9.1
48	FUNCTION1 PFK	330.9792	21.33	0.000							1.6
48	FUNCTION1 PFK	330.9792	24.54	0.000							7.5
48	FUNCTION1 PFK	330.9792	24.26	0.000							1.8

## PFK2

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
49	FUNCTION2 PFK	366.9792	32.03	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	31.56	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	31.11	0.000		0.000					1.4
49	FUNCTION2 PFK	366.9792	29.59	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	29.18	0.000		0.000					1.1
49	FUNCTION2 PFK	366.9792	28.98	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	28.62	0.000		0.000					1.3

WF26 : 00277

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PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
50	FUNCTION3 PFK	380.9760	34.56	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	34.27	0.000		0.000					0.6
50	FUNCTION3 PFK	380.9760	34.09	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	33.64	0.000		0.000					0.5
50	FUNCTION3 PFK	380.9760	33.40	0.000		0.000					0.6
50	FUNCTION3 PFK	380.9760	37.61	0.000		0.000					6.2
50	FUNCTION3 PFK	380.9760	37.27	0.000		0.000					0.4
50	FUNCTION3 PFK	380.9760	37.15	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	36.67	0.000		0.000					1.6
50	FUNCTION3 PFK	380.9760	36.25	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	36.16	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	36.11	0.000		0.000					0.9
50	FUNCTION3 PFK	380.9760	35.84	0.000		0.000					1.1
50	FUNCTION3 PFK	380.9760	35.52	0.000		0.000					1.1
50	FUNCTION3 PFK	380.9760	35.47	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	35.33	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	35.25	0.000		0.000					0.4
50	FUNCTION3 PFK	380.9760	35.21	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	34.97	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	34.77	0.000		0.000					1.3
50	FUNCTION3 PFK	380.9760	34.70	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	38.58	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	38.44	0.000		0.000					1.5
50	FUNCTION3 PFK	380.9760	38.25	0.000		0.000					0.6
50	FUNCTION3 PFK	380.9760	38.10	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	37.94	0.000		0.000					0.8
50	FUNCTION3 PFK	380.9760	37.81	0.000		0.000					1.0
50	FUNCTION3 PFK	380.9760	37.74	0.000		0.000					1.1

PFK4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
51	FUNCTION4 PFK	430.9728	42.84	0.000							1.1
51	FUNCTION4 PFK	430.9728	42.73	0.000							1.1
51	FUNCTION4 PFK	430.9728	40.94	0.000							1.3
51	FUNCTION4 PFK	430.9728	40.73	0.000							0.9
51	FUNCTION4 PFK	430.9728	40.35	0.000							1.2
51	FUNCTION4 PFK	430.9728	39.47	0.000							1.0
51	FUNCTION4 PFK	430.9728	39.31	0.000							1.1
51	FUNCTION4 PFK	430.9728	39.16	0.000							1.5
51	FUNCTION4 PFK	430.9728	44.66	0.000							1.9
51	FUNCTION4 PFK	430.9728	44.38	0.000							0.7
51	FUNCTION4 PFK	430.9728	43.85	0.000							1.9
51	FUNCTION4 PFK	430.9728	43.38	0.000							2.1
51	FUNCTION4 PFK	430.9728	43.33	0.000							0.5
51	FUNCTION4 PFK	430.9728	42.92	0.000							0.8

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PFK5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
52	FUNCTION5 PFK	480.9696	47.16	0.000							0.7
52	FUNCTION5 PFK	480.9696	46.59	0.000							1.2
52	FUNCTION5 PFK	480.9696	46.15	0.000							1.1
52	FUNCTION5 PFK	480.9696	46.11	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.85	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.44	0.000							0.9
52	FUNCTION5 PFK	480.9696	45.37	0.000							0.5
52	FUNCTION5 PFK	480.9696	45.30	0.000							0.5
52	FUNCTION5 PFK	480.9696	45.14	0.000							0.9
52	FUNCTION5 PFK	480.9696	49.58	0.000							2.2
52	FUNCTION5 PFK	480.9696	49.30	0.000							0.5
52	FUNCTION5 PFK	480.9696	49.23	0.000							1.3
52	FUNCTION5 PFK	480.9696	49.13	0.000							0.5
52	FUNCTION5 PFK	480.9696	49.09	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.98	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.76	0.000							1.1
52	FUNCTION5 PFK	480.9696	48.46	0.000							1.3
52	FUNCTION5 PFK	480.9696	48.37	0.000							0.7
52	FUNCTION5 PFK	480.9696	48.28	0.000							1.7
52	FUNCTION5 PFK	480.9696	48.10	0.000							0.7
52	FUNCTION5 PFK	480.9696	47.86	0.000							1.1
52	FUNCTION5 PFK	480.9696	47.47	0.000							1.0

ETHERS1

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
53	FUNCTION1 HXCD...	375.8364	21.69	0.000		0.000					7.2
53	FUNCTION1 HXCD...	375.8364	21.18	0.000		0.000					4.7
53	FUNCTION1 HXCD...	375.8364	25.27	0.000		0.000					4.5
53	FUNCTION1 HXCD...	375.8364	24.14	0.000		0.000					49.4
53	FUNCTION1 HXCD...	375.8364	23.02	0.000		0.000					6.1

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ETHERS2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
54	FUNCTION1 HPCD...	409.7974	25.73	0.000		0.000					2.7
54	FUNCTION1 HPCD...	409.7974	25.20	0.000		0.000					2.1
54	FUNCTION1 HPCD...	409.7974	25.02	0.000		0.000					1.0
54	FUNCTION1 HPCD...	409.7974	24.49	0.000		0.000					2.9
54	FUNCTION1 HPCD...	409.7974	24.33	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	23.64	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	23.39	0.000		0.000					3.3
54	FUNCTION1 HPCD...	409.7974	23.31	0.000		0.000					2.3
54	FUNCTION1 HPCD...	409.7974	22.85	0.000		0.000					1.3
54	FUNCTION1 HPCD...	409.7974	22.75	0.000		0.000					1.0
54	FUNCTION1 HPCD...	409.7974	22.04	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	21.18	0.000		0.000					3.6
54	FUNCTION1 HPCD...	409.7974	28.13	0.000		0.000					2.5
54	FUNCTION1 HPCD...	409.7974	28.02	0.000		0.000					1.2
54	FUNCTION1 HPCD...	409.7974	27.66	0.000		0.000					1.6
54	FUNCTION1 HPCD...	409.7974	27.33	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	27.21	0.000		0.000					1.6
54	FUNCTION1 HPCD...	409.7974	27.06	0.000		0.000					2.6
54	FUNCTION1 HPCD...	409.7974	26.42	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	26.15	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	25.99	0.000		0.000					1.3

ETHERS3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
55	FUNCTION2 HPCD...	409.7974	30.71	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	30.03	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	29.96	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	29.61	0.000		0.000					2.1
55	FUNCTION2 HPCD...	409.7974	29.26	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	29.09	0.000		0.000					1.7
55	FUNCTION2 HPCD...	409.7974	31.33	0.000		0.000					2.6
55	FUNCTION2 HPCD...	409.7974	30.87	0.000		0.000					2.9
55	FUNCTION2 HPCD...	409.7974	30.82	0.000		0.000					2.2

ETHERS4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
56	FUNCTION3 OCDPE	445.7555	36.94	0.000		0.000					6.9

ETHERS5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
57	FUNCTION4 NCDPE	479.7165	39.35	0.000		0.000					217.6

ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
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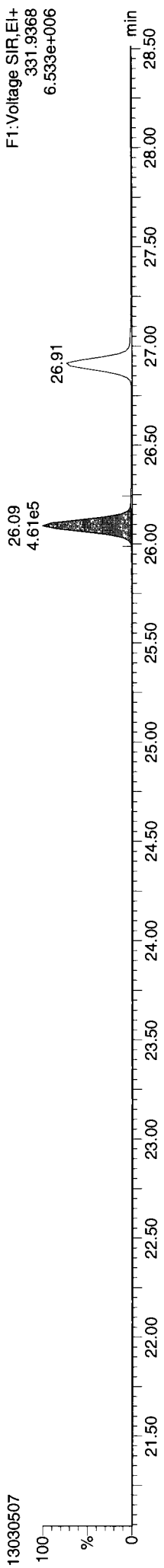
**Quantify Sample Report** MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

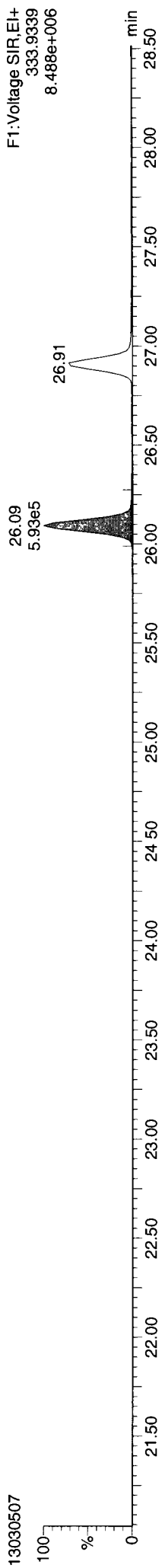
**Method:** P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

**ID:** WF26B, **Name:** 13030507, **Date:** 05-Mar-2013, **Time:** 16:52:21, **Conditions:** AUTOSPEC01, **User:** pk

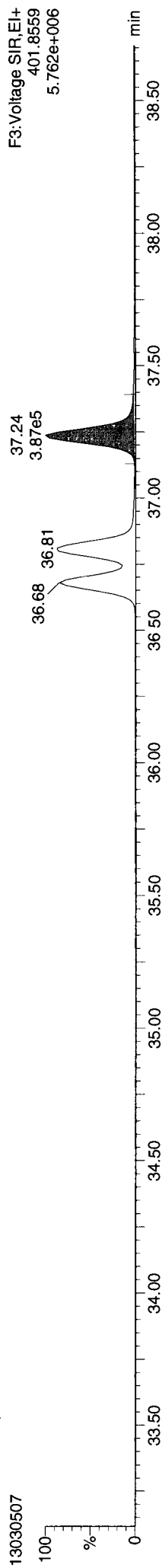
**13C-1234-TCDD**



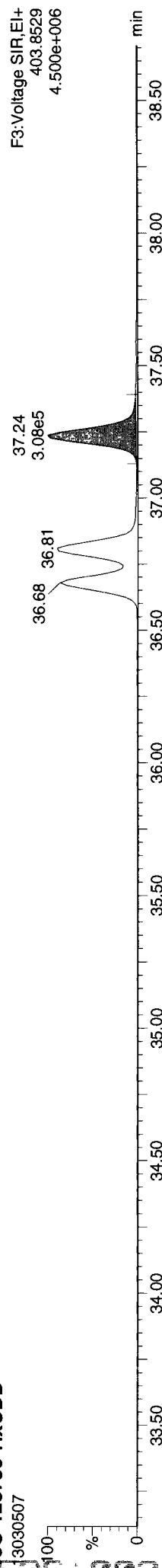
**13C-1234-TCDD**



**13C-123789-HxCDD**



**13C-123789-HxCDD**

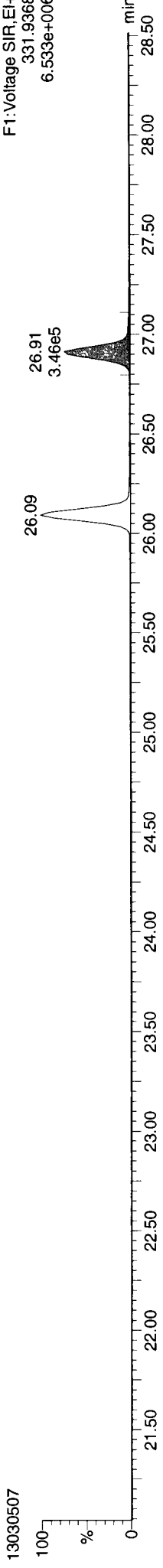


51 10 01 : 00 00 14

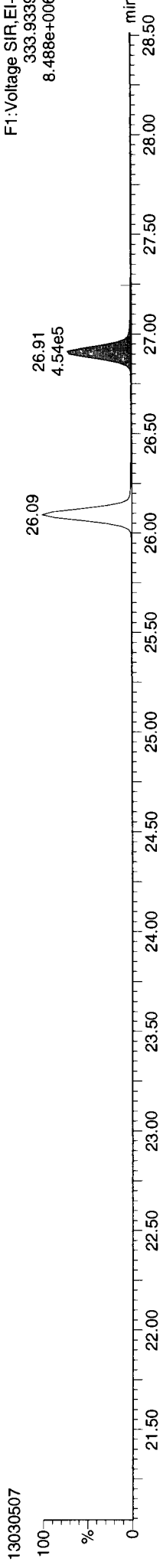
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qid  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

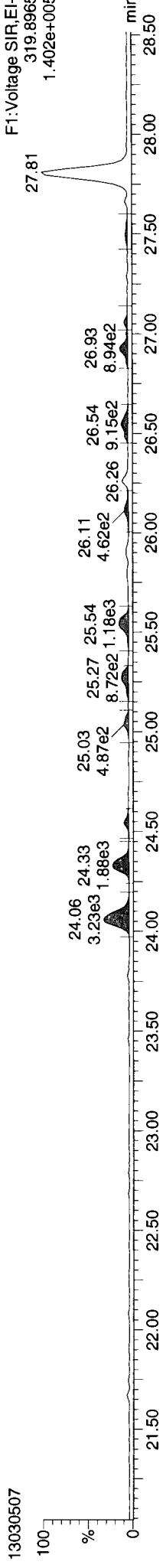
13C-2378-TCDD



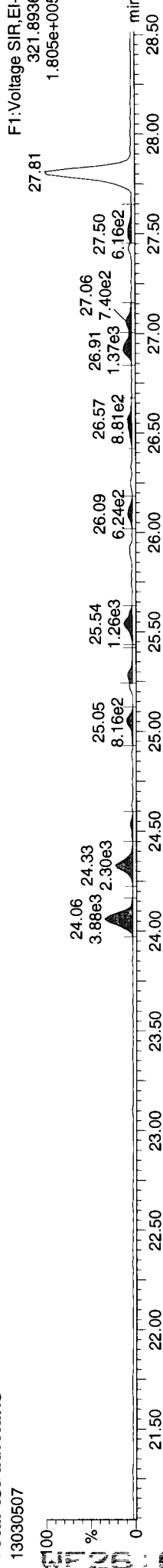
13C-2378-TCDD



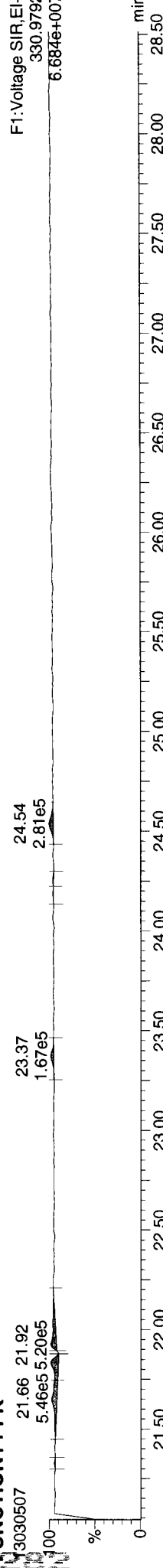
Total-tetradoxins



Total-tetradoxins



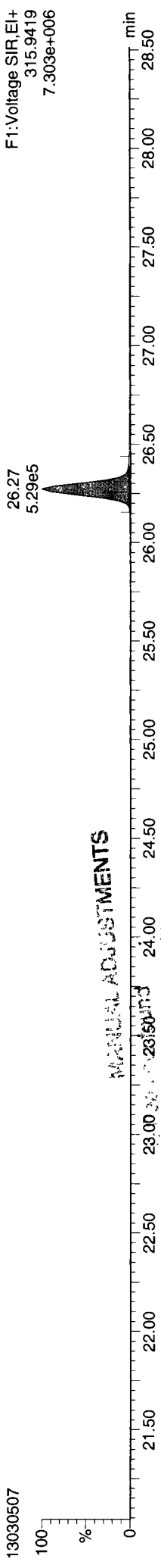
FUNCTION1 PFK



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

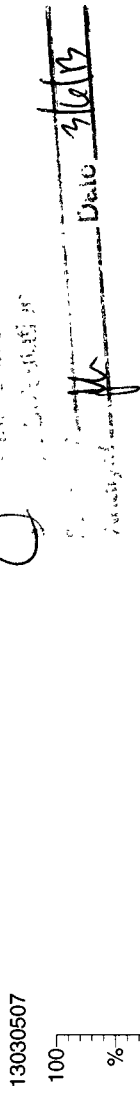
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



F1: Voltage SIR, EI+  
315.9419  
7.303e+006

13C-2378-TCDF

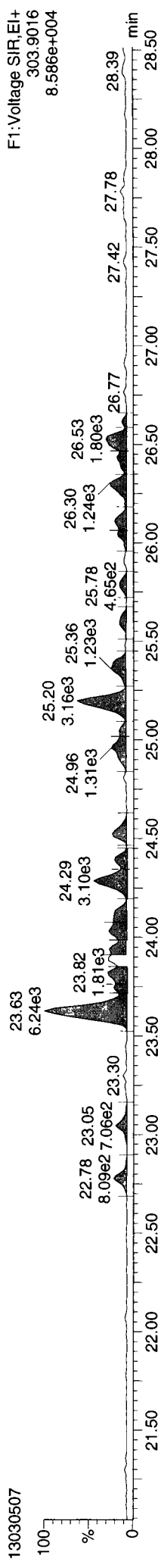


F1: Voltage SIR, EI+  
317.9389  
9.384e+006

MANUAL ADJUSTMENTS

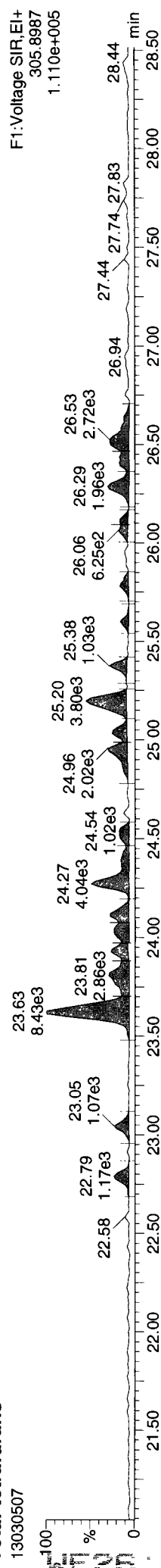
Q  
Date 3/6/13

Total-tetrafurans



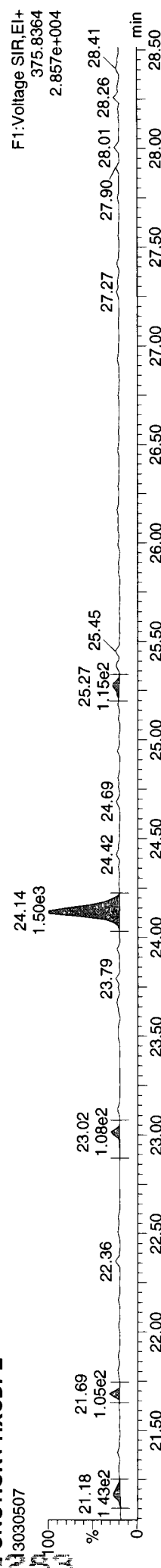
F1: Voltage SIR, EI+  
303.9016  
8.586e+004

Total-tetrafurans



F1: Voltage SIR, EI+  
305.8987  
1.110e+005

FUNCTION1 HXCDPE

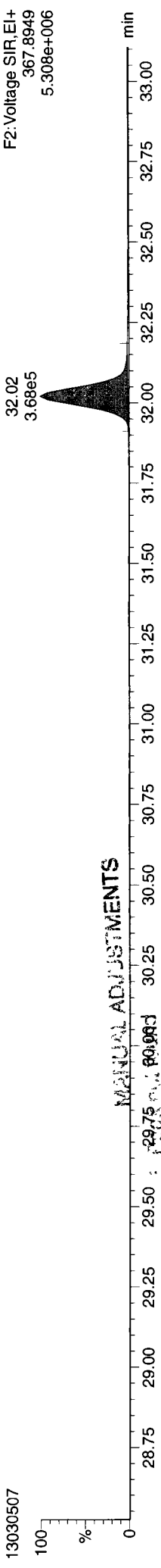


F1: Voltage SIR, EI+  
375.8364  
2.857e+004

Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

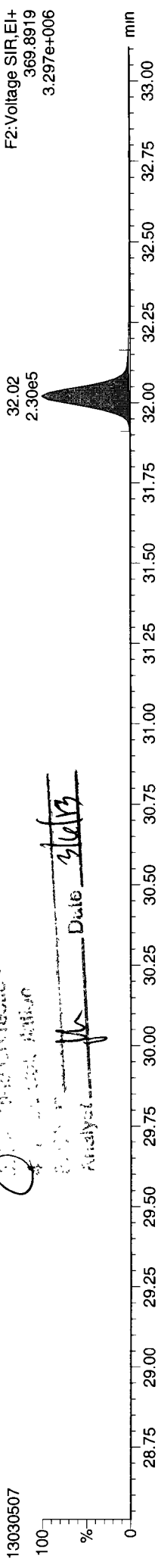
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD



F2: Voltage SIR.EI+  
367.8949  
5.308e+006

13C-12378-PeCDD



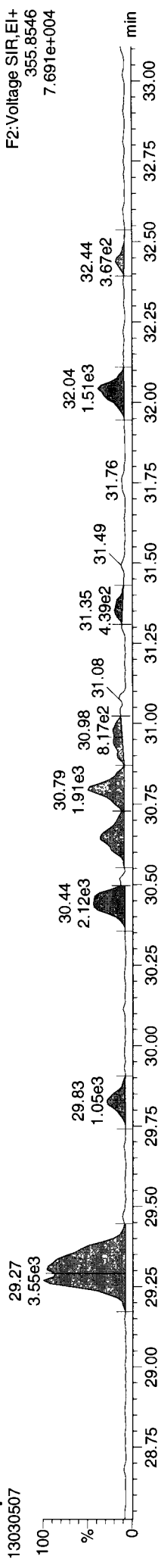
F2: Voltage SIR.EI+  
369.8919  
3.297e+006

MANUAL ADJUSTMENTS

GC Parameters  
GC: GC-MS  
GC Conditions  
GC: GC-MS  
GC: GC-MS  
GC: GC-MS

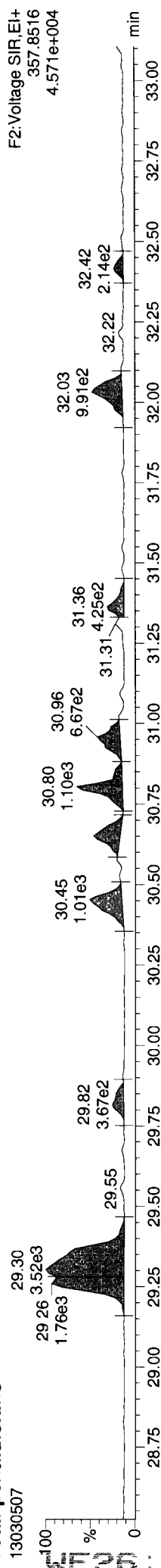
Analyzed: 3/6/13 Date: 3/6/13

Total-pentadioxins



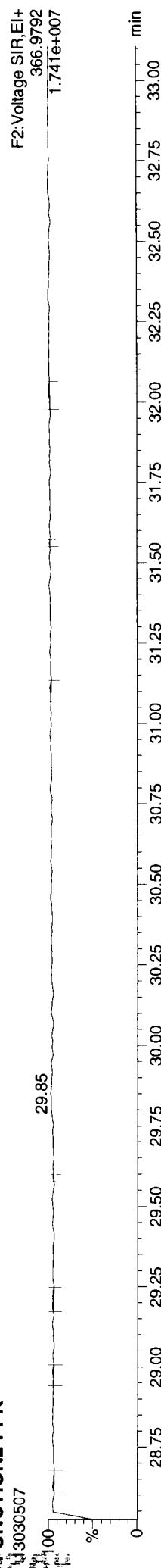
F2: Voltage SIR.EI+  
355.8546  
7.691e+004

Total-pentadioxins



F2: Voltage SIR.EI+  
357.8516  
4.571e+004

FUNCTION2 PFK

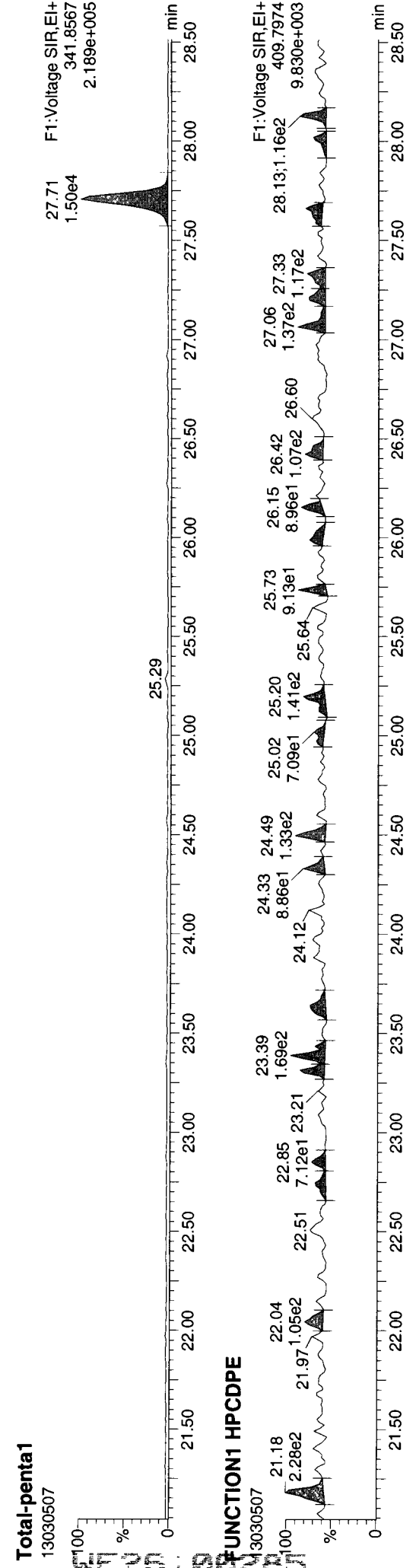
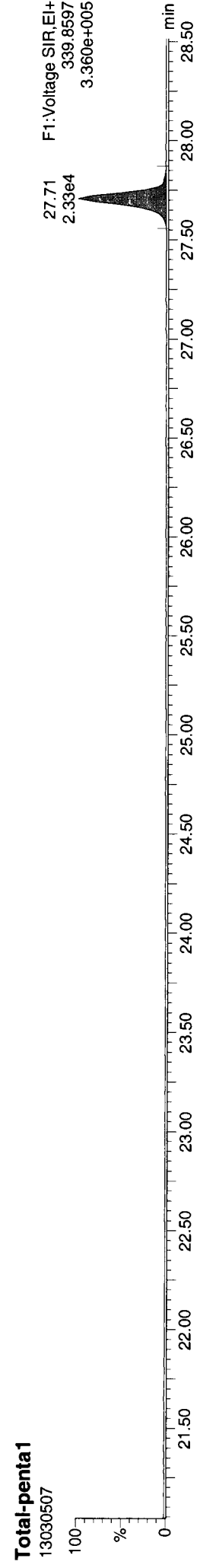
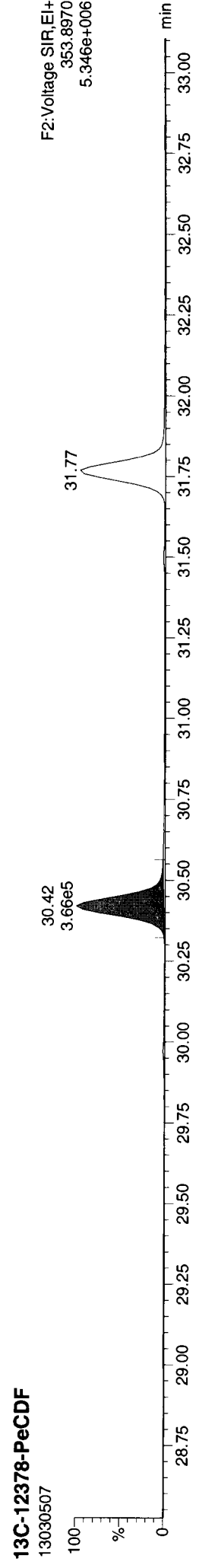
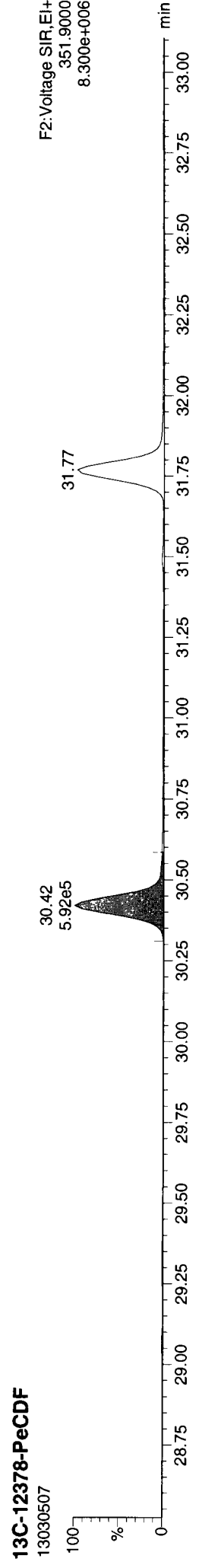


F2: Voltage SIR.EI+  
366.9792  
1.741e+007



Quantity Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN\290.PRO\130305\DATA1.dld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

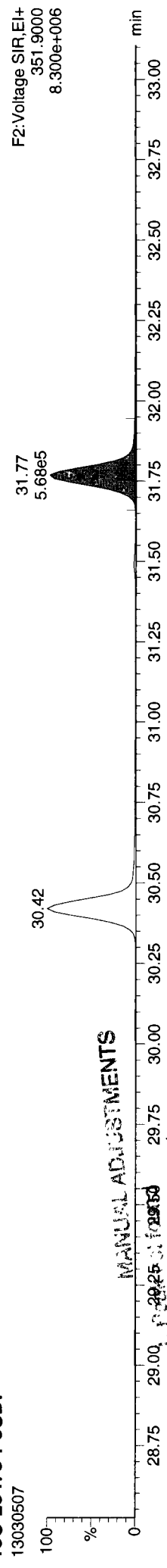
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk



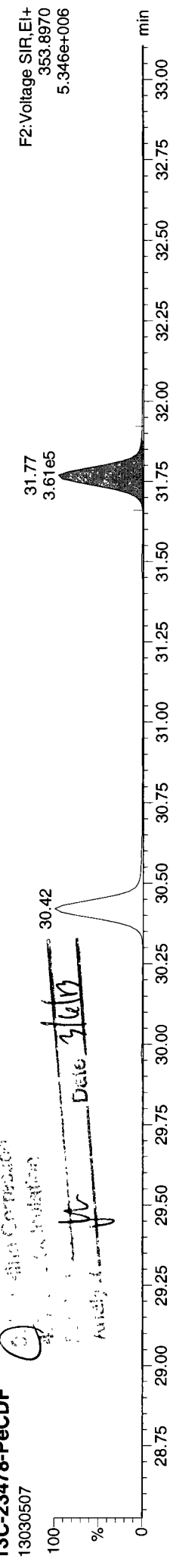
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

**ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk**

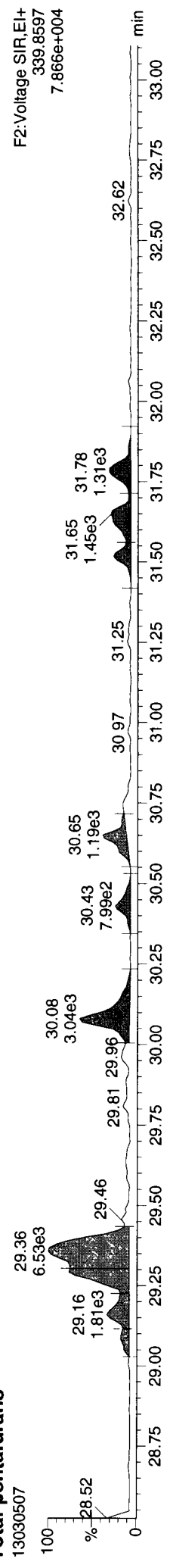
**13C-23478-PeCDF**  
 13030507



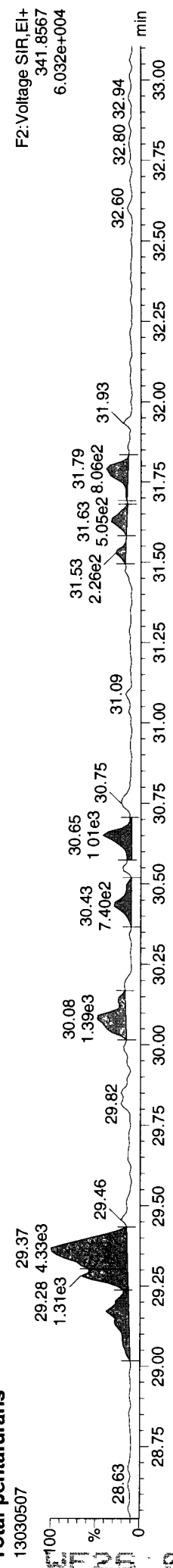
**13C-23478-PeCDF**  
 13030507



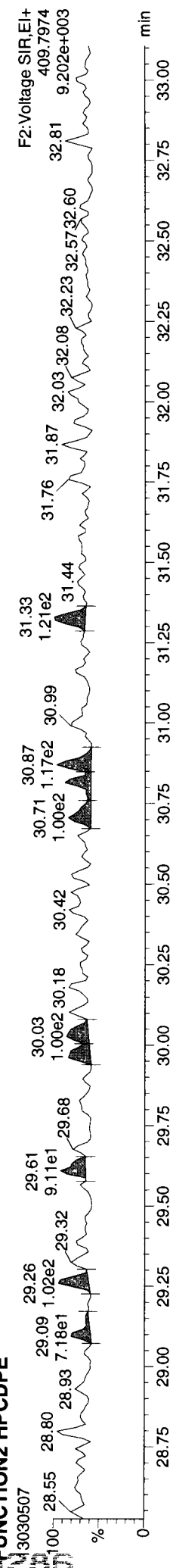
**Total-pentafulrans**  
 13030507



**Total-pentafulrans**  
 13030507



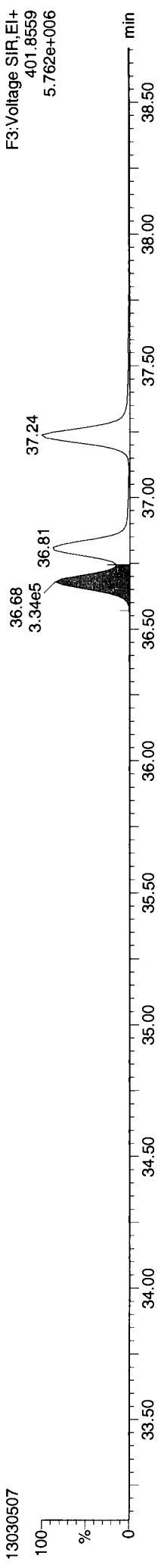
**FUNCTION2 HPCDPE**  
 13030507



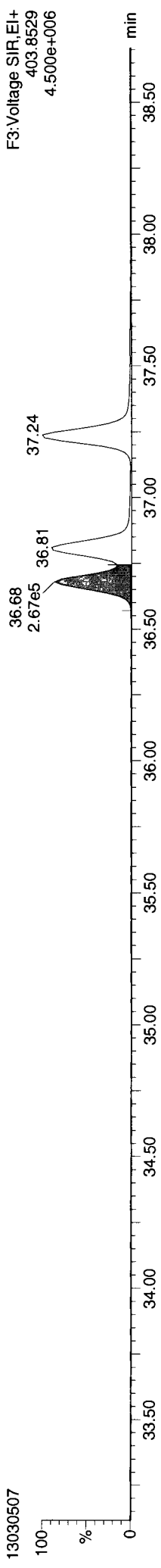
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: F:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

**ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk**

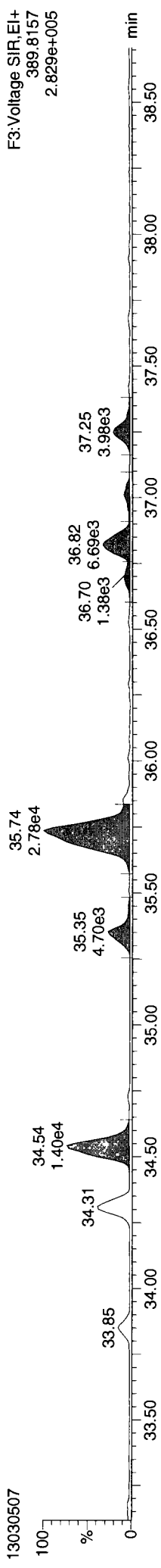
**13C-123478-HxCDD**



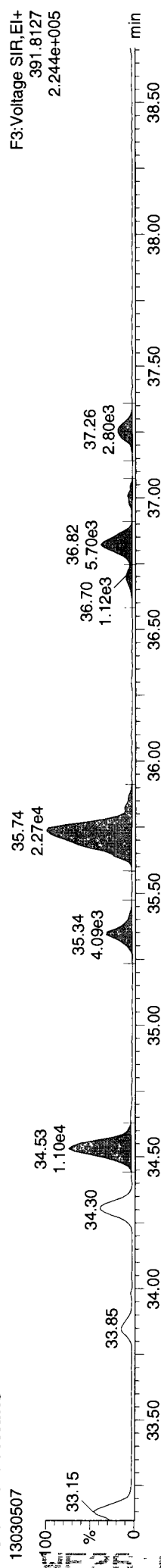
**13C-123478-HxCDD**



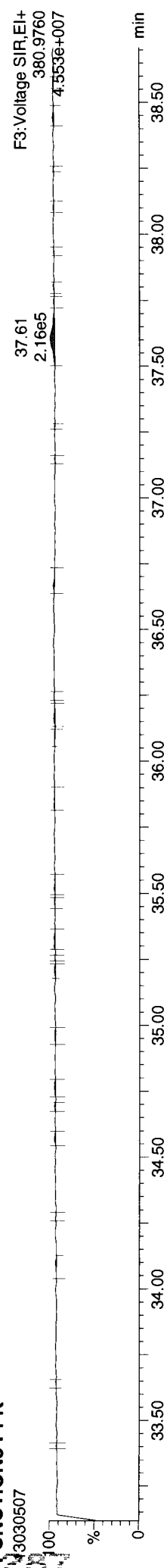
**Total-hexadioxins**



**Total-hexadioxins**



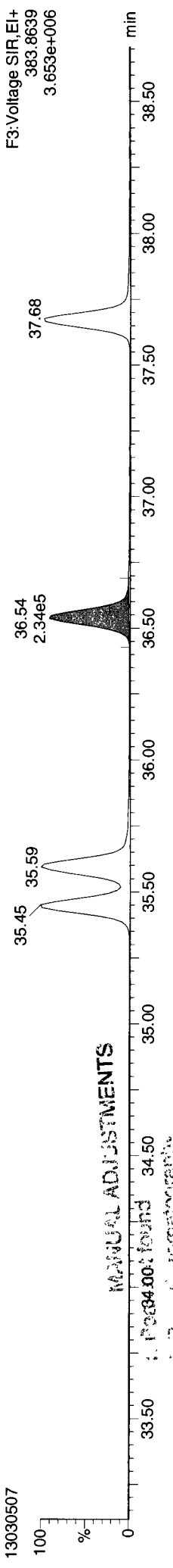
**FUNCTION3 PFK**



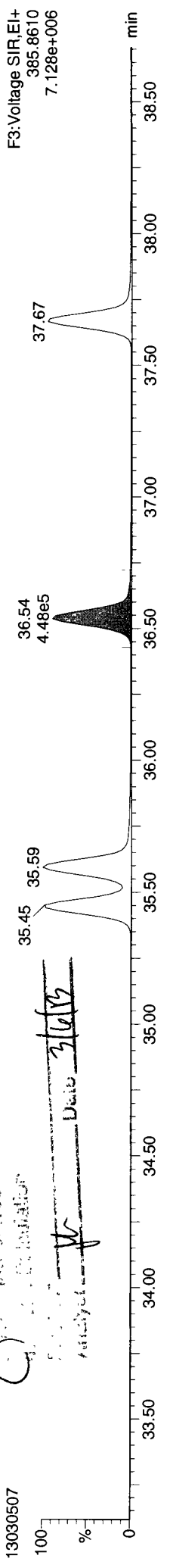
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13030505\DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

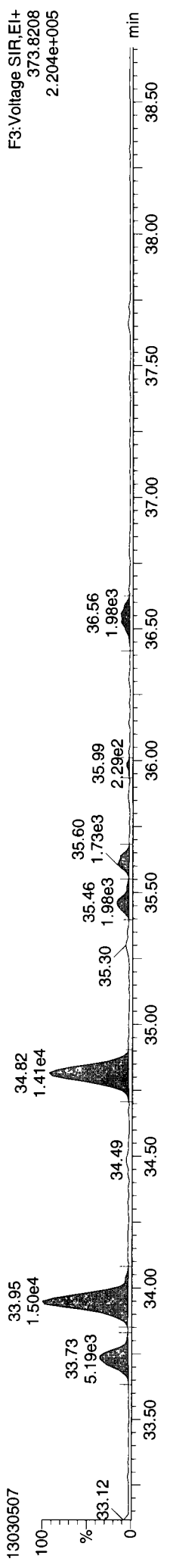
13C-234678-HxCDF



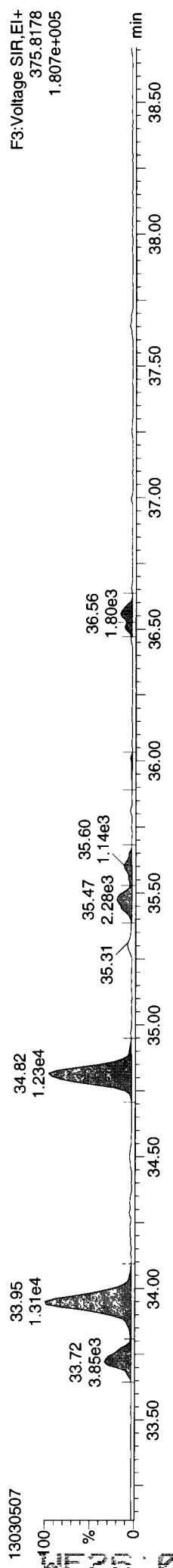
13C-234678-HxCDF



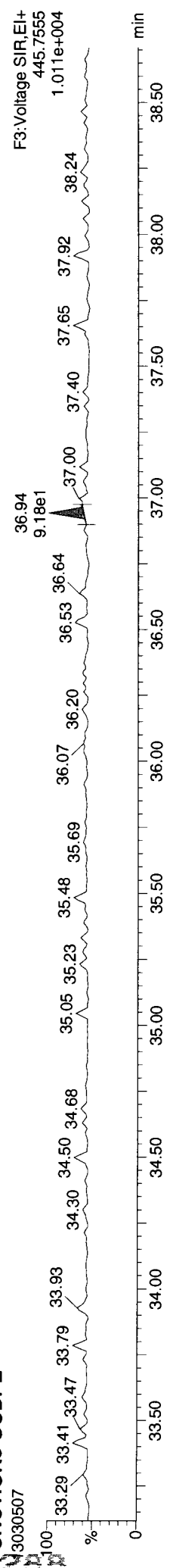
Total-hexafurans



Total-hexafurans



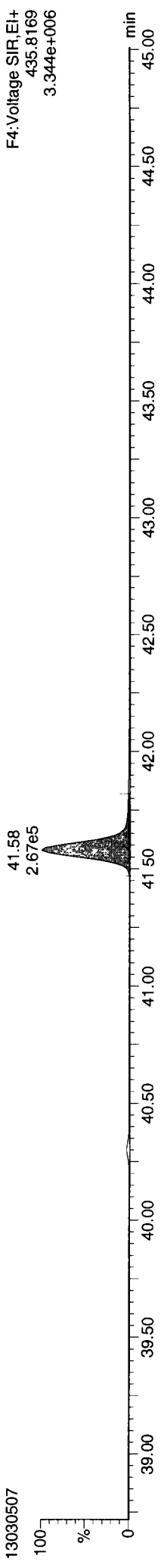
FUNCTION3 OCDFE



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

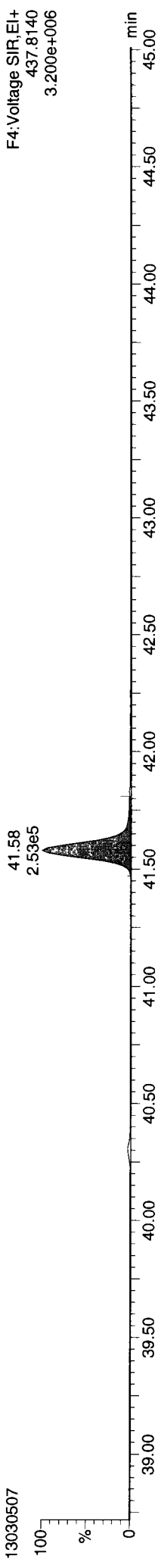
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



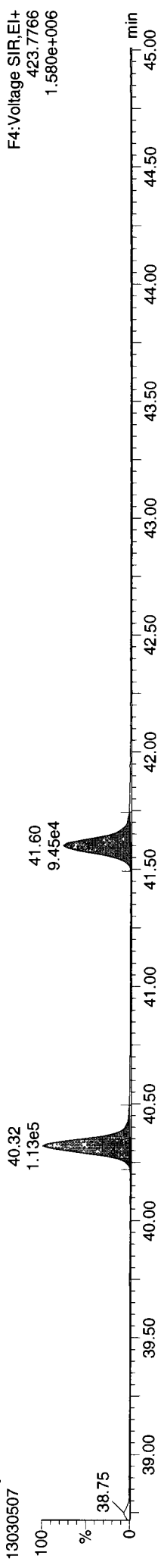
F4: Voltage SIR, EI+  
435.8169  
3.344e+006

13C-1234678-HpCDD



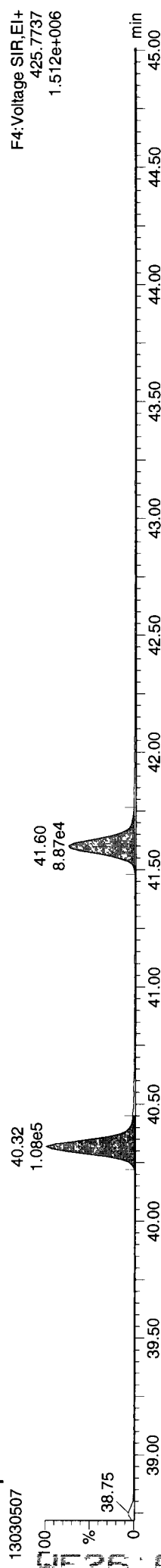
F4: Voltage SIR, EI+  
437.8140  
3.200e+006

Total-heptadioxins



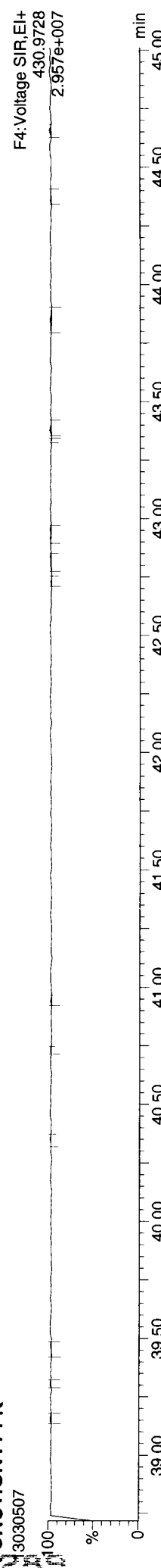
F4: Voltage SIR, EI+  
423.7766  
1.580e+006

Total-heptadioxins



F4: Voltage SIR, EI+  
425.7737  
1.512e+006

FUNCTION4 PFK

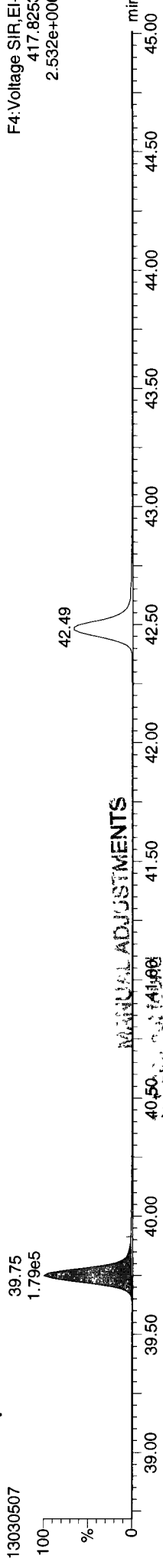


F4: Voltage SIR, EI+  
430.9728  
2.957e+007

Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

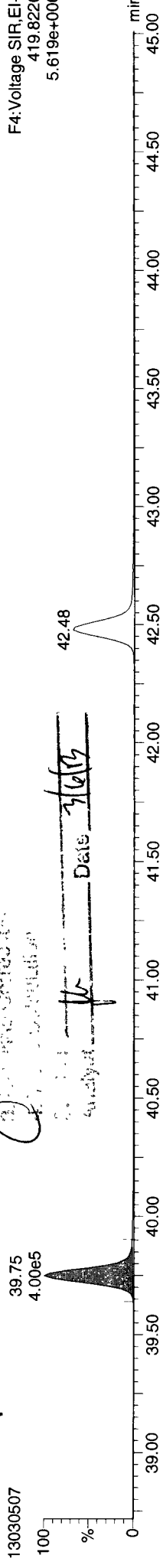
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



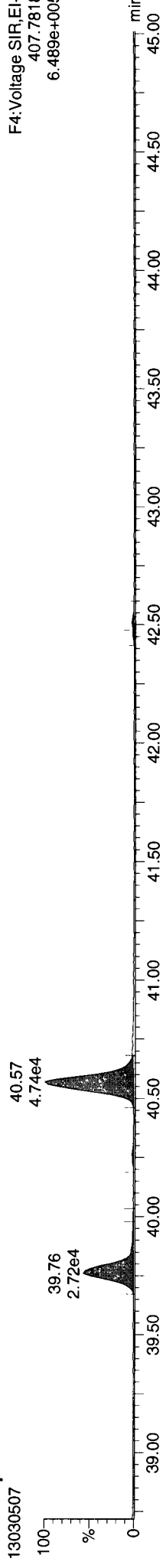
F4: Voltage SIR, EI+  
417.8253  
2.532e+006

13C-1234678-HpCDF



F4: Voltage SIR, EI+  
419.8220  
5.619e+006

Total-heptafurans



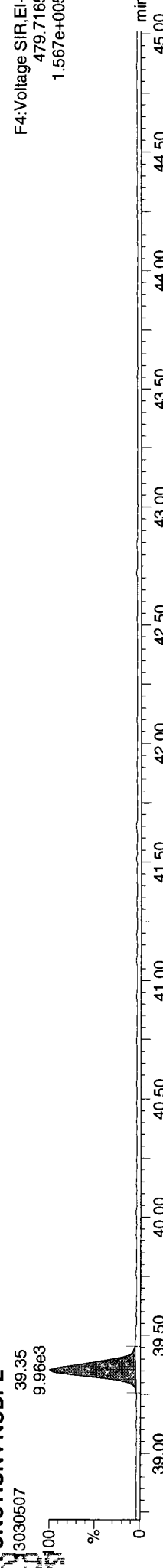
F4: Voltage SIR, EI+  
407.7818  
6.489e+005

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
6.165e+005

FUNCTION4 NCDPE



F4: Voltage SIR, EI+  
479.7165  
1.567e+005

MANUAL ADJUSTMENTS

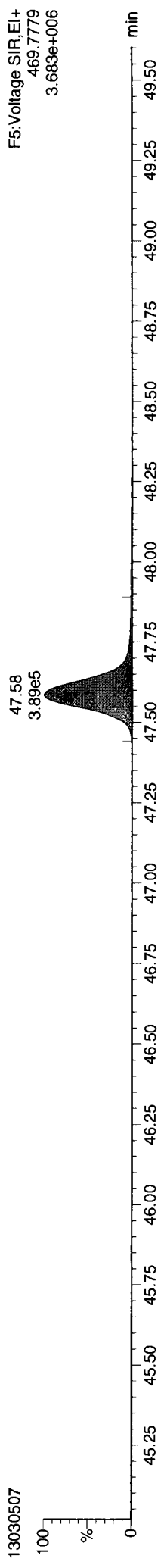
Chromatography  
Date 3/6/13

13030507

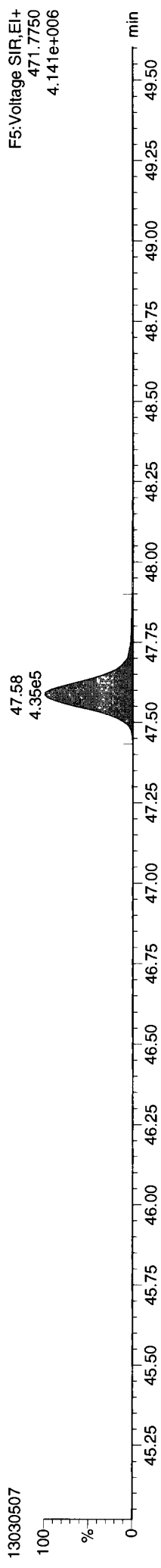
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

**ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk**

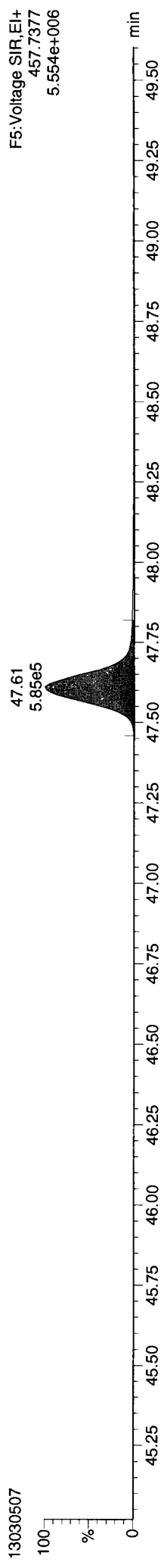
**13C-OCDD**



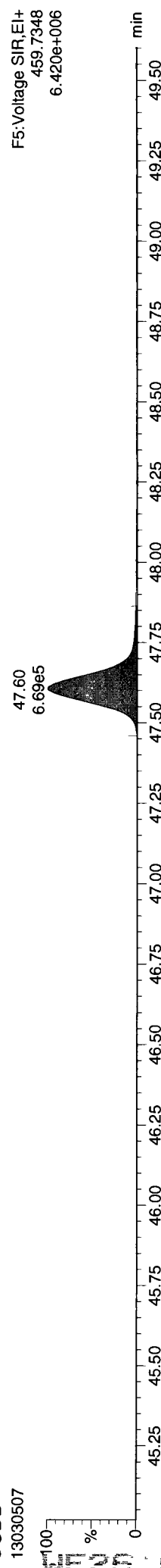
**13C-OCDD**



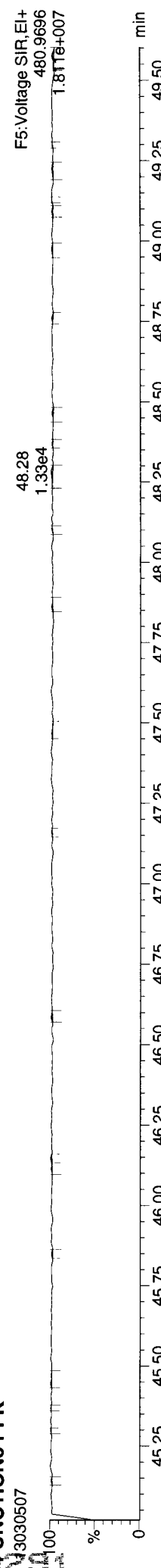
**OCDD**



**OCDD**



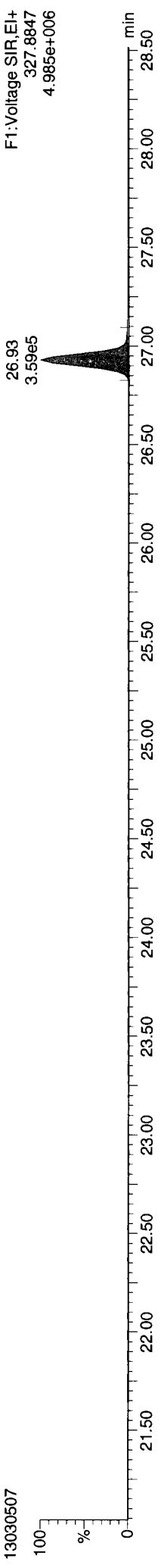
**FUNCTION5 PFK**



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qid  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:16 Pacific Standard Time

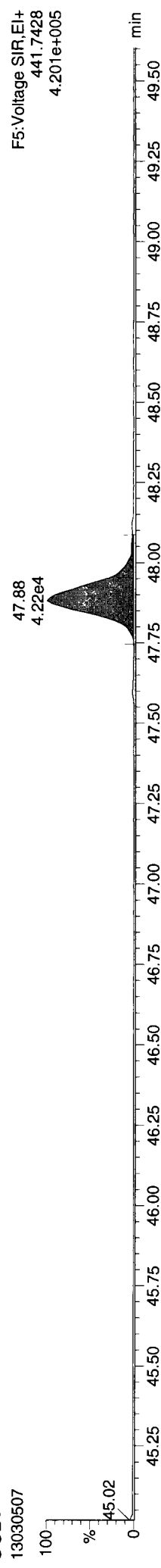
ID: WF26B, Name: 13030507, Date: 05-Mar-2013, Time: 16:52:21, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD



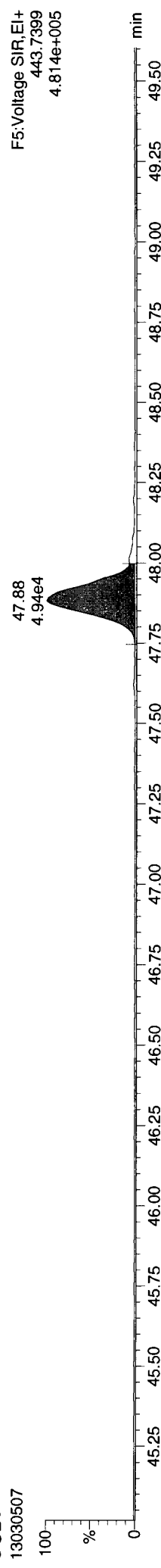
F1: Voltage SIR, EI+  
327.8847  
4.985e+006

OCDF



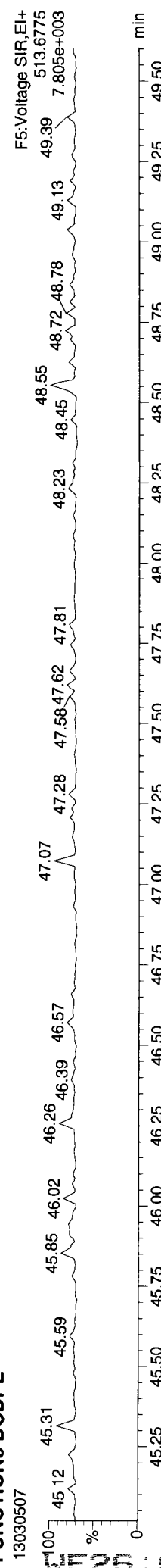
F5: Voltage SIR, EI+  
441.7428  
4.201e+005

OCDF



F5: Voltage SIR, EI+  
443.7399  
4.814e+005

FUNCTION5 DCDPE



F5: Voltage SIR, EI+  
513.6775  
7.805e+003

13030507





Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

Name	RT	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
13C-123789-HxCDD	37.227	0.000	3.81e5	3.06e5	1.000	1.247	1.240	2462.5	2209	2029	5.44e6	4.39e6	NO	100.000			
Total-tetraturans			2.88e4	0.921					1288		3.92e5			6.401			
Total-penta1			1.66e4						784		2.23e5			3.402			
Total-pentaturans			1.67e4	0.927					1160		2.03e5			3.381			
Total-hexaturans			3.29e4	1.062					1359		4.71e5			8.335			
Total-heptaturans			5.14e4	1.231					1439		7.10e5			15.615			
Total-Furans			1.73e5	1.065					1288		2.25e6			49.857			
Total-tetradiioxins			1.02e4	1.106					935		1.51e5			2.857			
Total-pentadiioxins			1.51e4	1.001					1482		2.47e5			4.247			
Total-hexadiioxins			3.81e4	0.937					2330		4.98e5			12.081			
Total-heptadiioxins			1.88e5	1.029					2465		2.46e6			68.511			
Total-Dioxins			7.55e5	0.994					935		8.43e6			353.043			
Total-TEQ			9.28e5						935		1.07e7			402.899			
37CL-2378-TCDD	26.930	1.032	3.47e5	1.051				2418.0	1926		4.66e6			32.814			
FUNCTION1 PFK			6.90e5						396063		1.07e7			0.000			
FUNCTION2 PFK			5.40e4						215646		1.42e6			0.000			
FUNCTION3 PFK			1.03e5						324149		3.45e6						
FUNCTION4 PFK			5.57e5						265672		1.47e7						
FUNCTION5 PFK			1.36e5						177738		5.59e6						
FUNCTION1 HXCDPE			1.74e3						415		3.02e4			0.000			
FUNCTION1 HPCDPE			1.35e3						912		2.94e4			0.000			
FUNCTION2 HPCDPE			6.34e2						1061		1.54e4			0.000			
FUNCTION3 OCDPE			0.00e0						511		0.00e0			0.000			
FUNCTION4 NCDPE			3.45e4						883		5.04e5						
FUNCTION5 DCDPE			0.00e0						406		0.00e0			0.000			

13030508

Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

TF

Table with columns: # Name, Trace, RT, Abs Resp, RRF M., pg, EMPC, 1st Rat., 1st Rat., 1st R., SN. Contains 21 rows of data for Total-tetrafurans and 1 2378-TCDF.

Handwritten mark resembling a stylized 'e' or '2'.

PP

Table with columns: # Name, Trace, RT, Abs Resp, RRF M., pg, EMPC, 1st Rat., 1st Rat., 1st R., SN. Contains 2 rows of data for Total-penta1.

PF

Table with columns: # Name, Trace, RT, Abs Resp, RRF M., pg, EMPC, 1st Rat., 1st Rat., 1st R., SN. Contains 13 rows of data for Total-pentafurans and 2 12378-PeCDF.

Handwritten mark resembling a stylized 'e' or '2'.

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qid  
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ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

## HF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
38	Total-hexafurans	373.8208	35.29	1493.422	1.062	0.198		0.91	1.24	YES	10.2
38	Total-hexafurans	373.8208	34.80	21182.306	1.062	2.813		1.18	1.24	NO	131.0
38	Total-hexafurans	373.8208	34.47	480.963	1.062	0.064		0.59	1.24	YES	2.9
38	Total-hexafurans	373.8208	33.94	23513.440	1.062	3.122		1.10	1.24	NO	118.6
38	Total-hexafurans	373.8208	33.73	7396.659	1.062	0.982		0.97	1.24	YES	39.6
7	123789-HxCDF	373.8208	37.68	592.733	1.017	0.084	0.057	0.60	1.24	YES	3.3
5	234678-HxCDF	373.8208	36.54	2966.260	1.073	0.407	0.407	1.12	1.24	NO	14.1
6	123678-HxCDF	373.8208	35.60	2182.156	1.056	0.273	0.273	1.07	1.24	NO	10.6
4	123478-HxCDF	373.8208	35.46	3041.863	1.101	0.392	0.392	1.27	1.24	NO	15.8

## HPF

#	Name	Trace	RT	Abs. Resp	RRF M.	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
8	1234678-HpCDF	407.7818	39.76	38102.490	1.238	5.322	5.322	1.02	1.05	NO	193.8
9	1234789-HpCDF	407.7818	42.50	1804.597	1.224	0.331	0.289	0.81	1.05	YES	7.3
39	Total-heptafurans	407.7818	40.56	61910.785	1.231	9.827		1.00	1.05	NO	287.2
39	Total-heptafurans	407.7818	40.26	854.331	1.231	0.136		0.53	1.05	YES	4.7

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Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs Peak	RRF	M.L.	pg	EMPC	1 <sup>st</sup> Rat.	2 <sup>nd</sup> Rat.	1 <sup>st</sup> R.	SN
35	Total-tetrafurans	303.9016	25.36	3595.985	0.921	0.333			0.85	0.77	NO	16.5
35	Total-tetrafurans	303.9016	25.20	6191.579	0.921	0.574			0.68	0.77	NO	26.6
35	Total-tetrafurans	303.9016	25.03	1946.625	0.921	0.180			0.46	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.96	3895.877	0.921	0.361			0.84	0.77	NO	12.9
35	Total-tetrafurans	303.9016	24.52	2867.244	0.921	0.266			0.59	0.77	YES	15.7
35	Total-tetrafurans	303.9016	24.39	1072.496	0.921	0.099			1.34	0.77	YES	6.7
35	Total-tetrafurans	303.9016	24.27	3875.365	0.921	0.359			0.55	0.77	YES	14.2
35	Total-tetrafurans	303.9016	24.12	2453.761	0.921	0.227			0.80	0.77	NO	12.5
35	Total-tetrafurans	303.9016	24.03	2326.426	0.921	0.216			0.65	0.77	YES	10.5
35	Total-tetrafurans	303.9016	23.93	2420.591	0.921	0.224			0.76	0.77	NO	9.8
35	Total-tetrafurans	303.9016	23.82	5219.688	0.921	0.484			0.68	0.77	NO	15.5
35	Total-tetrafurans	303.9016	23.63	15419.822	0.921	1.429			0.79	0.77	NO	70.9
35	Total-tetrafurans	303.9016	23.05	1535.392	0.921	0.142			0.58	0.77	YES	6.2
35	Total-tetrafurans	303.9016	22.78	1993.977	0.921	0.185			0.75	0.77	NO	11.2
40	Total-Furans	303.9016	28.39	757.186	1.065	0.061			0.62	0.77	YES	3.6
35	Total-tetrafurans	303.9016	26.51	4234.729	0.921	0.392			0.63	0.77	YES	17.2
35	Total-tetrafurans	303.9016	26.42	1494.932	0.921	0.138			0.56	0.77	YES	7.6
1	2378-TCDF	303.9016	26.29	3678.982	0.921	0.341	0.341		0.70	0.77	NO	17.8
35	Total-tetrafurans	303.9016	26.11	661.769	0.921	0.061			0.50	0.77	YES	5.1
35	Total-tetrafurans	303.9016	26.06	1091.877	0.921	0.101			1.12	0.77	YES	5.6
35	Total-tetrafurans	303.9016	25.78	1383.408	0.921	0.128			0.53	0.77	YES	3.7
35	Total-tetrafurans	303.9016	25.58	1733.924	0.921	0.161			1.06	0.77	YES	8.7
37	Total-pentafurans	339.8597	30.06	4630.935	0.927	0.556			1.16	1.55	YES	23.0
37	Total-pentafurans	339.8597	29.98	395.460	0.927	0.048			2.17	1.55	YES	6.1
37	Total-pentafurans	339.8597	29.81	349.394	0.927	0.042			0.37	1.55	YES	3.7
37	Total-pentafurans	339.8597	29.34	11467.695	0.927	1.378			1.82	1.55	YES	50.4
37	Total-pentafurans	339.8597	29.18	2076.986	0.927	0.250			1.81	1.55	YES	15.4
3	23478-PeCDF	339.8597	31.78	2284.950	0.943	0.273	0.273		1.61	1.55	NO	20.9
37	Total-pentafurans	339.8597	31.63	2001.023	0.927	0.240			1.65	1.55	NO	14.9
37	Total-pentafurans	339.8597	31.51	1126.957	0.927	0.135			0.75	1.55	YES	6.3
37	Total-pentafurans	339.8597	30.76	530.942	0.927	0.064			1.18	1.55	YES	8.9
37	Total-pentafurans	339.8597	30.63	1647.838	0.927	0.198			0.81	1.55	YES	12.9
2	12378-PeCDF	339.8597	30.43	1632.235	0.912	0.198	0.180		1.25	1.55	YES	12.0
38	Total-hexafurans	373.8208	35.29	1493.422	1.062	0.198			0.91	1.24	YES	10.2
38	Total-hexafurans	373.8208	34.80	21182.306	1.062	2.813			1.18	1.24	NO	131.0
38	Total-hexafurans	373.8208	34.47	480.963	1.062	0.064			0.59	1.24	YES	2.9
38	Total-hexafurans	373.8208	33.94	23513.440	1.062	3.122			1.10	1.24	NO	118.6
38	Total-hexafurans	373.8208	33.73	7396.659	1.062	0.982			0.97	1.24	YES	39.6
7	123789-HxCDF	373.8208	37.68	592.733	1.017	0.084	0.057		0.60	1.24	YES	3.3
5	234678-HxCDF	373.8208	36.54	2966.260	1.073	0.407	0.407		1.12	1.24	NO	14.1
6	123678-HxCDF	373.8208	35.60	2182.156	1.056	0.273	0.273		1.07	1.24	NO	10.6
4	123478-HxCDF	373.8208	35.46	3041.863	1.101	0.392	0.392		1.27	1.24	NO	15.8
8	1234678-HpCDF	407.7818	39.76	38102.490	1.238	5.322	5.322		1.02	1.05	NO	193.8
9	1234789-HpCDF	407.7818	42.50	1804.597	1.224	0.331	0.289		0.81	1.05	YES	7.3
39	Total-heptafurans	407.7818	40.56	61910.785	1.231	9.827			1.00	1.05	NO	287.2
39	Total-heptafurans	407.7818	40.26	854.331	1.231	0.136			0.53	1.05	YES	4.7
10	OCDF	441.7428	47.87	57821.164	1.162	12.662	12.662		0.83	0.89	NO	172.0
36	Total-penta1	339.8597	27.96	474.226		0.058			0.45	1.55	YES	4.1
36	Total-penta1	339.8597	27.71	27515.746		3.344			1.49	1.55	NO	280.0

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TD

#	Name	Trace	RT	Abs Resp	RF	M...	pg	EMPC	1° Rat	1° Rat	1° R	SN
11	2378-TCDD	319.8965	26.94	1356.404	1.106		0.159	0.105	0.40	0.77	YES	7.2
41	Total-tetradoxins	319.8965	26.53	1008.403	1.106		0.118		0.67	0.77	NO	7.9
41	Total-tetradoxins	319.8965	26.11	1075.315	1.106		0.126		0.45	0.77	YES	6.3
41	Total-tetradoxins	319.8965	25.90	566.402	1.106		0.067		0.82	0.77	NO	4.0
41	Total-tetradoxins	319.8965	25.56	2465.271	1.106		0.290		0.74	0.77	NO	16.6
41	Total-tetradoxins	319.8965	25.26	2003.813	1.106		0.235		0.89	0.77	YES	14.1
41	Total-tetradoxins	319.8965	25.05	2117.640	1.106		0.249		0.77	0.77	NO	15.6
41	Total-tetradoxins	319.8965	24.54	911.988	1.106		0.107		0.63	0.77	YES	7.0
41	Total-tetradoxins	319.8965	24.32	4551.894	1.106		0.535		0.81	0.77	NO	29.1
41	Total-tetradoxins	319.8965	24.06	7498.608	1.106		0.881		0.77	0.77	NO	49.3
41	Total-tetradoxins	319.8965	27.50	758.589	1.106		0.089		0.51	0.77	YES	4.5

h

PD

#	Name	Trace	RT	Abs Resp	RF	M...	pg	EMPC	1° Rat	1° Rat	1° R	SN
42	Total-pentadoxins	355.8546	30.65	2161.655	1.001		0.366		1.42	1.55	NO	11.5
42	Total-pentadoxins	355.8546	30.43	3371.637	1.001		0.571		1.56	1.55	NO	20.0
42	Total-pentadoxins	355.8546	29.83	2082.008	1.001		0.353		1.33	1.55	NO	14.9
42	Total-pentadoxins	355.8546	29.36	3354.351	1.001		0.568		0.97	1.55	YES	26.0
42	Total-pentadoxins	355.8546	29.30	4724.725	1.001		0.800		2.29	1.55	YES	30.9
42	Total-pentadoxins	355.8546	32.44	522.080	1.001		0.088		2.30	1.55	YES	5.8
12	12378-PeCDD	355.8546	32.02	2305.590	1.001		0.390	0.390	1.64	1.55	NO	12.9
42	Total-pentadoxins	355.8546	31.36	1304.228	1.001		0.221		1.10	1.55	YES	5.9
42	Total-pentadoxins	355.8546	30.96	1511.974	1.001		0.256		1.42	1.55	NO	9.8
42	Total-pentadoxins	355.8546	30.92	883.434	1.001		0.150		2.27	1.55	YES	8.8
42	Total-pentadoxins	355.8546	30.79	2505.485	1.001		0.424		1.60	1.55	NO	15.4
42	Total-pentadoxins	355.8546	32.42	351.782	1.001		0.060		0.88	1.55	YES	5.0

h

HD

#	Name	Trace	RT	Abs Resp	RF	M...	pg	EMPC	1° Rat	1° Rat	1° R	SN
15	123789-HxCDD	389.8157	37.25	4393.171	0.904		0.799	0.799	1.17	1.24	NO	16.5
43	Total-hexadoxins	389.8157	37.00	1804.247	0.937		0.317		1.87	1.24	YES	7.5
14	123678-HxCDD	389.8157	36.82	7764.100	0.929		1.313	1.313	1.29	1.24	NO	28.3
13	123478-HxCDD	389.8157	36.68	2637.621	0.978		0.465	0.465	1.20	1.24	NO	9.6
43	Total-hexadoxins	389.8157	35.81	2768.928	0.937		0.486		0.71	1.24	YES	8.4
43	Total-hexadoxins	389.8157	35.73	22998.439	0.937		4.036		1.16	1.24	NO	52.1
43	Total-hexadoxins	389.8157	35.32	7967.047	0.937		1.398		1.30	1.24	NO	25.1
43	Total-hexadoxins	389.8157	34.52	18626.844	0.937		3.268		1.35	1.24	NO	66.0

h

HPD

#	Name	Trace	RT	Abs Resp	RF	M...	pg	EMPC	1° Rat	1° Rat	1° R	SN
16	1234678-HpCDD	423.7766	41.60	156786.468	1.029		29.150	29.150	1.02	1.05	NO	400.2
44	Total-heptadoxins	423.7766	40.32	211713.602	1.029		39.362		1.06	1.05	NO	596.8

## Quantify Totals Report MassLynx 4.1 SCN 714

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## Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs Resp	RRF.M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
45	Total-Dioxins	319.8965	23.43	245.744	0.994	0.032		0.52	0.77	YES	2.0
11	2378-TCDD	319.8965	26.94	1356.404	1.106	0.159	0.105	0.40	0.77	YES	7.2
41	Total-tetradoxins	319.8965	26.53	1008.403	1.106	0.118		0.67	0.77	NO	7.9
41	Total-tetradoxins	319.8965	26.11	1075.315	1.106	0.126		0.45	0.77	YES	6.3
41	Total-tetradoxins	319.8965	25.90	566.402	1.106	0.067		0.82	0.77	NO	4.0
41	Total-tetradoxins	319.8965	25.56	2465.271	1.106	0.290		0.74	0.77	NO	16.6
41	Total-tetradoxins	319.8965	25.26	2003.813	1.106	0.235		0.89	0.77	YES	14.1
41	Total-tetradoxins	319.8965	25.05	2117.640	1.106	0.249		0.77	0.77	NO	15.6
41	Total-tetradoxins	319.8965	24.54	911.988	1.106	0.107		0.63	0.77	YES	7.0
41	Total-tetradoxins	319.8965	24.32	4551.894	1.106	0.535		0.81	0.77	NO	29.1
41	Total-tetradoxins	319.8965	24.06	7498.608	1.106	0.881		0.77	0.77	NO	49.3
45	Total-Dioxins	319.8965	27.81	691.757	0.994	0.090		0.66	0.77	NO	3.3
41	Total-tetradoxins	319.8965	27.50	758.589	1.106	0.089		0.51	0.77	YES	4.5
42	Total-pentadoxins	355.8546	30.65	2161.655	1.001	0.366		1.42	1.55	NO	11.5
42	Total-pentadoxins	355.8546	30.43	3371.637	1.001	0.571		1.56	1.55	NO	20.0
42	Total-pentadoxins	355.8546	29.83	2082.008	1.001	0.353		1.33	1.55	NO	14.9
42	Total-pentadoxins	355.8546	29.36	3354.351	1.001	0.568		0.97	1.55	YES	26.0
42	Total-pentadoxins	355.8546	29.30	4724.725	1.001	0.800		2.29	1.55	YES	30.9
42	Total-pentadoxins	355.8546	32.44	522.080	1.001	0.088		2.30	1.55	YES	5.8
12	12378-PeCDD	355.8546	32.02	2305.590	1.001	0.390	0.390	1.64	1.55	NO	12.9
42	Total-pentadoxins	355.8546	31.36	1304.228	1.001	0.221		1.10	1.55	YES	5.9
42	Total-pentadoxins	355.8546	30.96	1511.974	1.001	0.256		1.42	1.55	NO	9.8
42	Total-pentadoxins	355.8546	30.92	883.434	1.001	0.150		2.27	1.55	YES	8.8
42	Total-pentadoxins	355.8546	30.79	2505.485	1.001	0.424		1.60	1.55	NO	15.4
15	123789-HxCDD	389.8157	37.25	4393.171	0.904	0.799	0.799	1.17	1.24	NO	16.5
43	Total-hexadoxins	389.8157	37.00	1804.247	0.937	0.317		1.87	1.24	YES	7.5
14	123678-HxCDD	389.8157	36.82	7764.100	0.929	1.313	1.313	1.29	1.24	NO	28.3
13	123478-HxCDD	389.8157	36.68	2637.621	0.978	0.465	0.465	1.20	1.24	NO	9.6
43	Total-hexadoxins	389.8157	35.81	2768.928	0.937	0.486		0.71	1.24	YES	8.4
43	Total-hexadoxins	389.8157	35.73	22998.439	0.937	4.036		1.16	1.24	NO	52.1
43	Total-hexadoxins	389.8157	35.32	7967.047	0.937	1.398		1.30	1.24	NO	25.1
43	Total-hexadoxins	389.8157	34.52	18626.844	0.937	3.268		1.35	1.24	NO	66.0
16	1234678-HpCDD	423.7766	41.60	156786.468	1.029	29.150	29.150	1.02	1.05	NO	400.2
44	Total-heptadoxins	423.7766	40.32	211713.602	1.029	39.362		1.06	1.05	NO	596.8
17	OCDD	457.7377	47.59	1053978.906	1.011	265.223	265....	0.91	0.89	NO	1816.3
42	Total-pentadoxins	355.8546	32.42	351.782	1.001	0.060		0.88	1.55	YES	5.0

## 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	25.36	3595.985	0.921	0.333		0.85	0.77	NO	16.5
35	Total-tetrafurans	303.9016	25.20	6191.579	0.921	0.574		0.68	0.77	NO	26.6
35	Total-tetrafurans	303.9016	25.03	1946.625	0.921	0.180		0.46	0.77	YES	9.3
35	Total-tetrafurans	303.9016	24.96	3895.877	0.921	0.361		0.84	0.77	NO	12.9
35	Total-tetrafurans	303.9016	24.52	2867.244	0.921	0.266		0.59	0.77	YES	15.7
35	Total-tetrafurans	303.9016	24.39	1072.496	0.921	0.099		1.34	0.77	YES	6.7
35	Total-tetrafurans	303.9016	24.27	3875.365	0.921	0.359		0.55	0.77	YES	14.2
35	Total-tetrafurans	303.9016	24.12	2453.761	0.921	0.227		0.80	0.77	NO	12.5
35	Total-tetrafurans	303.9016	24.03	2326.426	0.921	0.216		0.65	0.77	YES	10.5
35	Total-tetrafurans	303.9016	23.93	2420.591	0.921	0.224		0.76	0.77	NO	9.8
35	Total-tetrafurans	303.9016	23.82	5219.688	0.921	0.484		0.68	0.77	NO	15.5
35	Total-tetrafurans	303.9016	23.63	15419.822	0.921	1.429		0.79	0.77	NO	70.9
35	Total-tetrafurans	303.9016	23.05	1535.392	0.921	0.142		0.58	0.77	YES	6.2
35	Total-tetrafurans	303.9016	22.78	1993.977	0.921	0.185		0.75	0.77	NO	11.2
40	Total-Furans	303.9016	28.39	757.186	1.065	0.061		0.62	0.77	YES	3.6
35	Total-tetrafurans	303.9016	26.51	4234.729	0.921	0.392		0.63	0.77	YES	17.2
35	Total-tetrafurans	303.9016	26.42	1494.932	0.921	0.138		0.56	0.77	YES	7.6
1	2378-TCDF	303.9016	26.29	3678.982	0.921	0.341	0.341	0.70	0.77	NO	17.8
35	Total-tetrafurans	303.9016	26.11	661.769	0.921	0.061		0.50	0.77	YES	5.1
35	Total-tetrafurans	303.9016	26.06	1091.877	0.921	0.101		1.12	0.77	YES	5.6
35	Total-tetrafurans	303.9016	25.78	1383.408	0.921	0.128		0.53	0.77	YES	3.7
35	Total-tetrafurans	303.9016	25.58	1733.924	0.921	0.161		1.06	0.77	YES	8.7
37	Total-pentafurans	339.8597	30.06	4630.935	0.927	0.556		1.16	1.55	YES	23.0
37	Total-pentafurans	339.8597	29.98	395.460	0.927	0.048		2.17	1.55	YES	6.1
37	Total-pentafurans	339.8597	29.81	349.394	0.927	0.042		0.37	1.55	YES	3.7
37	Total-pentafurans	339.8597	29.34	11467.695	0.927	1.378		1.82	1.55	YES	50.4
37	Total-pentafurans	339.8597	29.18	2076.986	0.927	0.250		1.81	1.55	YES	15.4
3	23478-PeCDF	339.8597	31.78	2284.950	0.943	0.273	0.273	1.61	1.55	NO	20.9
37	Total-pentafurans	339.8597	31.63	2001.023	0.927	0.240		1.65	1.55	NO	14.9
37	Total-pentafurans	339.8597	31.51	1126.957	0.927	0.135		0.75	1.55	YES	6.3
37	Total-pentafurans	339.8597	30.76	530.942	0.927	0.064		1.18	1.55	YES	8.9
37	Total-pentafurans	339.8597	30.63	1647.838	0.927	0.198		0.81	1.55	YES	12.9
2	12378-PeCDF	339.8597	30.43	1632.235	0.912	0.198	0.180	1.25	1.55	YES	12.0
38	Total-hexafurans	373.8208	35.29	1493.422	1.062	0.198		0.91	1.24	YES	10.2
38	Total-hexafurans	373.8208	34.80	21182.306	1.062	2.813		1.18	1.24	NO	131.0
38	Total-hexafurans	373.8208	34.47	480.963	1.062	0.064		0.59	1.24	YES	2.9
38	Total-hexafurans	373.8208	33.94	23513.440	1.062	3.122		1.10	1.24	NO	118.6
38	Total-hexafurans	373.8208	33.73	7396.659	1.062	0.982		0.97	1.24	YES	39.6
7	123789-HxCDF	373.8208	37.68	592.733	1.017	0.084	0.057	0.60	1.24	YES	3.3
5	234678-HxCDF	373.8208	36.54	2966.260	1.073	0.407	0.407	1.12	1.24	NO	14.1
6	123678-HxCDF	373.8208	35.60	2182.156	1.056	0.273	0.273	1.07	1.24	NO	10.6
4	123478-HxCDF	373.8208	35.46	3041.863	1.101	0.392	0.392	1.27	1.24	NO	15.8
8	1234678-HpCDF	407.7818	39.76	38102.490	1.238	5.322	5.322	1.02	1.05	NO	193.8
9	1234789-HpCDF	407.7818	42.50	1804.597	1.224	0.331	0.289	0.81	1.05	YES	7.3
39	Total-heptafurans	407.7818	40.56	61910.785	1.231	9.827		1.00	1.05	NO	287.2
39	Total-heptafurans	407.7818	40.26	854.331	1.231	0.136		0.53	1.05	YES	4.7
10	OCDF	441.7428	47.87	57821.164	1.162	12.662	12.662	0.83	0.89	NO	172.0
36	Total-penta1	339.8597	27.96	474.226		0.058		0.45	1.55	YES	4.1
36	Total-penta1	339.8597	27.71	27515.746		3.344		1.49	1.55	NO	280.0

WF26 00300



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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
45	Total-Dioxins	319.8965	23.43	245.744	0.994	0.032		0.52	0.77	YES	2.0
11	2378-TCDD	319.8965	26.94	1356.404	1.106	0.159	0.105	0.40	0.77	YES	7.2
41	Total-tetradoxins	319.8965	26.53	1008.403	1.106	0.118		0.67	0.77	NO	7.9
41	Total-tetradoxins	319.8965	26.11	1075.315	1.106	0.126		0.45	0.77	YES	6.3
41	Total-tetradoxins	319.8965	25.90	566.402	1.106	0.067		0.82	0.77	NO	4.0
41	Total-tetradoxins	319.8965	25.56	2465.271	1.106	0.290		0.74	0.77	NO	16.6
41	Total-tetradoxins	319.8965	25.26	2003.813	1.106	0.235		0.89	0.77	YES	14.1
41	Total-tetradoxins	319.8965	25.05	2117.640	1.106	0.249		0.77	0.77	NO	15.6
41	Total-tetradoxins	319.8965	24.54	911.988	1.106	0.107		0.63	0.77	YES	7.0
41	Total-tetradoxins	319.8965	24.32	4551.894	1.106	0.535		0.81	0.77	NO	29.1
41	Total-tetradoxins	319.8965	24.06	7498.608	1.106	0.881		0.77	0.77	NO	49.3
45	Total-Dioxins	319.8965	27.81	691.757	0.994	0.090		0.66	0.77	NO	3.3
41	Total-tetradoxins	319.8965	27.50	758.589	1.106	0.089		0.51	0.77	YES	4.5
42	Total-pentadoxins	355.8546	30.65	2161.655	1.001	0.366		1.42	1.55	NO	11.5
42	Total-pentadoxins	355.8546	30.43	3371.637	1.001	0.571		1.56	1.55	NO	20.0
42	Total-pentadoxins	355.8546	29.83	2082.008	1.001	0.353		1.33	1.55	NO	14.9
42	Total-pentadoxins	355.8546	29.36	3354.351	1.001	0.568		0.97	1.55	YES	26.0
42	Total-pentadoxins	355.8546	29.30	4724.725	1.001	0.800		2.29	1.55	YES	30.9
42	Total-pentadoxins	355.8546	32.44	522.080	1.001	0.088		2.30	1.55	YES	5.8
12	12378-PeCDD	355.8546	32.02	2305.590	1.001	0.390	0.390	1.64	1.55	NO	12.9
42	Total-pentadoxins	355.8546	31.36	1304.228	1.001	0.221		1.10	1.55	YES	5.9
42	Total-pentadoxins	355.8546	30.96	1511.974	1.001	0.256		1.42	1.55	NO	9.8
42	Total-pentadoxins	355.8546	30.92	883.434	1.001	0.150		2.27	1.55	YES	8.8
42	Total-pentadoxins	355.8546	30.79	2505.485	1.001	0.424		1.60	1.55	NO	15.4
15	123789-HxCDD	389.8157	37.25	4393.171	0.904	0.799	0.799	1.17	1.24	NO	16.5
43	Total-hexadoxins	389.8157	37.00	1804.247	0.937	0.317		1.87	1.24	YES	7.5
14	123678-HxCDD	389.8157	36.82	7764.100	0.929	1.313	1.313	1.29	1.24	NO	28.3
13	123478-HxCDD	389.8157	36.68	2637.621	0.978	0.465	0.465	1.20	1.24	NO	9.6
43	Total-hexadoxins	389.8157	35.81	2768.928	0.937	0.486		0.71	1.24	YES	8.4
43	Total-hexadoxins	389.8157	35.73	22998.439	0.937	4.036		1.16	1.24	NO	52.1
43	Total-hexadoxins	389.8157	35.32	7967.047	0.937	1.398		1.30	1.24	NO	25.1
43	Total-hexadoxins	389.8157	34.52	18626.844	0.937	3.268		1.35	1.24	NO	66.0
16	1234678-HpCDD	423.7766	41.60	156786.468	1.029	29.150	29.150	1.02	1.05	NO	400.2
44	Total-heptadoxins	423.7766	40.32	211713.602	1.029	39.362		1.06	1.05	NO	596.8
17	OCDD	457.7377	47.59	1053978.906	1.011	265.223	265.223	0.91	0.89	NO	1816.3
42	Total-pentadoxins	355.8546	32.42	351.782	1.001	0.060		0.88	1.55	YES	5.0

PFK1

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
48	FUNCTION1 PFK	330.9792	24.54	0.000							6.9
48	FUNCTION1 PFK	330.9792	23.36	0.000							6.7
48	FUNCTION1 PFK	330.9792	21.89	0.000							6.8
48	FUNCTION1 PFK	330.9792	21.85	0.000							6.7

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PFK2

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
49	FUNCTION2 PFK	366.9792	29.62	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	30.98	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.27	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	30.20	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	29.80	0.000		0.000					0.6

PFK3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1 <sup>st</sup> Rat...	1 <sup>st</sup> Rat...	1 <sup>st</sup> R...	S/N
50	FUNCTION3 PFK	380.9760	38.66	0.000		0.000					2.3
50	FUNCTION3 PFK	380.9760	38.35	0.000		0.000					1.7
50	FUNCTION3 PFK	380.9760	38.22	0.000		0.000					0.7
50	FUNCTION3 PFK	380.9760	37.78	0.000		0.000					1.4
50	FUNCTION3 PFK	380.9760	36.87	0.000		0.000					1.1
50	FUNCTION3 PFK	380.9760	36.73	0.000		0.000					1.0
50	FUNCTION3 PFK	380.9760	36.11	0.000		0.000					1.2
50	FUNCTION3 PFK	380.9760	34.77	0.000		0.000					1.2

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PFK4

#	Name	Trace	RT	Abs Resp	RRF M...	pp	EMPC	1° Rat...	1° Rat...	1° Fl...	SN
51	FUNCTION4 PFK	430.9728	38.92	0.000							1.0
51	FUNCTION4 PFK	430.9728	38.84	0.000							1.4
51	FUNCTION4 PFK	430.9728	41.21	0.000							0.8
51	FUNCTION4 PFK	430.9728	41.16	0.000							1.0
51	FUNCTION4 PFK	430.9728	41.06	0.000							1.9
51	FUNCTION4 PFK	430.9728	40.95	0.000							1.1
51	FUNCTION4 PFK	430.9728	40.92	0.000							1.4
51	FUNCTION4 PFK	430.9728	40.75	0.000							1.3
51	FUNCTION4 PFK	430.9728	40.71	0.000							0.8
51	FUNCTION4 PFK	430.9728	40.61	0.000							1.5
51	FUNCTION4 PFK	430.9728	40.46	0.000							0.4
51	FUNCTION4 PFK	430.9728	39.87	0.000							0.8
51	FUNCTION4 PFK	430.9728	39.81	0.000							0.9
51	FUNCTION4 PFK	430.9728	39.66	0.000							1.3
51	FUNCTION4 PFK	430.9728	39.56	0.000							1.8
51	FUNCTION4 PFK	430.9728	39.43	0.000							0.4
51	FUNCTION4 PFK	430.9728	39.08	0.000							1.0
51	FUNCTION4 PFK	430.9728	38.98	0.000							1.8
51	FUNCTION4 PFK	430.9728	43.74	0.000							1.8
51	FUNCTION4 PFK	430.9728	43.38	0.000							1.2
51	FUNCTION4 PFK	430.9728	43.21	0.000							1.6
51	FUNCTION4 PFK	430.9728	42.89	0.000							0.8
51	FUNCTION4 PFK	430.9728	42.85	0.000							1.1
51	FUNCTION4 PFK	430.9728	42.71	0.000							0.6
51	FUNCTION4 PFK	430.9728	42.44	0.000							0.8
51	FUNCTION4 PFK	430.9728	42.39	0.000							1.7
51	FUNCTION4 PFK	430.9728	42.35	0.000							1.6
51	FUNCTION4 PFK	430.9728	42.27	0.000							2.0
51	FUNCTION4 PFK	430.9728	42.12	0.000							2.0
51	FUNCTION4 PFK	430.9728	41.89	0.000							1.3
51	FUNCTION4 PFK	430.9728	41.80	0.000							1.0
51	FUNCTION4 PFK	430.9728	41.69	0.000							1.5
51	FUNCTION4 PFK	430.9728	41.62	0.000							1.0
51	FUNCTION4 PFK	430.9728	41.27	0.000							0.7
51	FUNCTION4 PFK	430.9728	44.85	0.000							1.1
51	FUNCTION4 PFK	430.9728	44.76	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.67	0.000							1.1
51	FUNCTION4 PFK	430.9728	44.58	0.000							2.2
51	FUNCTION4 PFK	430.9728	44.52	0.000							1.4
51	FUNCTION4 PFK	430.9728	44.34	0.000							0.7
51	FUNCTION4 PFK	430.9728	44.28	0.000							1.3
51	FUNCTION4 PFK	430.9728	44.21	0.000							1.2
51	FUNCTION4 PFK	430.9728	44.13	0.000							1.7
51	FUNCTION4 PFK	430.9728	43.98	0.000							0.5
51	FUNCTION4 PFK	430.9728	43.88	0.000							1.7

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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	45.42	0.000							1.7
52	FUNCTION5 PFK	480.9696	45.26	0.000							1.3
52	FUNCTION5 PFK	480.9696	45.19	0.000							1.7
52	FUNCTION5 PFK	480.9696	45.13	0.000							1.9
52	FUNCTION5 PFK	480.9696	48.80	0.000							1.3
52	FUNCTION5 PFK	480.9696	48.54	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.48	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.21	0.000							1.2
52	FUNCTION5 PFK	480.9696	48.08	0.000							1.6
52	FUNCTION5 PFK	480.9696	48.00	0.000							1.7
52	FUNCTION5 PFK	480.9696	47.86	0.000							0.5
52	FUNCTION5 PFK	480.9696	47.82	0.000							1.6
52	FUNCTION5 PFK	480.9696	47.48	0.000							1.3
52	FUNCTION5 PFK	480.9696	47.44	0.000							2.3
52	FUNCTION5 PFK	480.9696	47.37	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.97	0.000							1.4
52	FUNCTION5 PFK	480.9696	46.85	0.000							0.6
52	FUNCTION5 PFK	480.9696	46.75	0.000							0.7
52	FUNCTION5 PFK	480.9696	46.28	0.000							1.2
52	FUNCTION5 PFK	480.9696	46.04	0.000							0.8
52	FUNCTION5 PFK	480.9696	49.42	0.000							1.4
52	FUNCTION5 PFK	480.9696	49.40	0.000							1.0
52	FUNCTION5 PFK	480.9696	49.05	0.000							0.5
52	FUNCTION5 PFK	480.9696	48.97	0.000							0.6
52	FUNCTION5 PFK	480.9696	48.89	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	26.53	0.000		0.000					7.4
53	FUNCTION1 HXCD...	375.8364	24.14	0.000		0.000					46.4
53	FUNCTION1 HXCD...	375.8364	21.98	0.000		0.000					2.2
53	FUNCTION1 HXCD...	375.8364	21.19	0.000		0.000					16.7

## ETHERS2

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	23.90	0.000		0.000					2.7
54	FUNCTION1 HPCD...	409.7974	23.45	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	23.18	0.000		0.000					4.5
54	FUNCTION1 HPCD...	409.7974	21.39	0.000		0.000					3.0
54	FUNCTION1 HPCD...	409.7974	21.18	0.000		0.000					8.7
54	FUNCTION1 HPCD...	409.7974	27.44	0.000		0.000					3.1
54	FUNCTION1 HPCD...	409.7974	25.72	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	25.03	0.000		0.000					4.4
54	FUNCTION1 HPCD...	409.7974	23.96	0.000		0.000					2.4

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

D: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

ETHERS3

#	Name	Trace	RT	Abs. Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
55	FUNCTION2 HPCD...	409.7974	33.06	0.000			0.000					2.3
55	FUNCTION2 HPCD...	409.7974	32.47	0.000			0.000					2.4
55	FUNCTION2 HPCD...	409.7974	32.37	0.000			0.000					2.0
55	FUNCTION2 HPCD...	409.7974	30.67	0.000			0.000					2.0
55	FUNCTION2 HPCD...	409.7974	30.05	0.000			0.000					2.0
55	FUNCTION2 HPCD...	409.7974	29.55	0.000			0.000					1.6
55	FUNCTION2 HPCD...	409.7974	29.27	0.000			0.000					2.1

ETHERS4

#	Name	Trace	RT	Abs. Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
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ETHERS5

#	Name	Trace	RT	Abs. Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
57	FUNCTION4 NCDPE	479.7165	39.47	0.000			0.000					4.7
57	FUNCTION4 NCDPE	479.7165	39.35	0.000			0.000					548.6
57	FUNCTION4 NCDPE	479.7165	41.56	0.000			0.000					2.6
57	FUNCTION4 NCDPE	479.7165	40.83	0.000			0.000					7.3
57	FUNCTION4 NCDPE	479.7165	40.19	0.000			0.000					3.5
57	FUNCTION4 NCDPE	479.7165	40.01	0.000			0.000					4.4

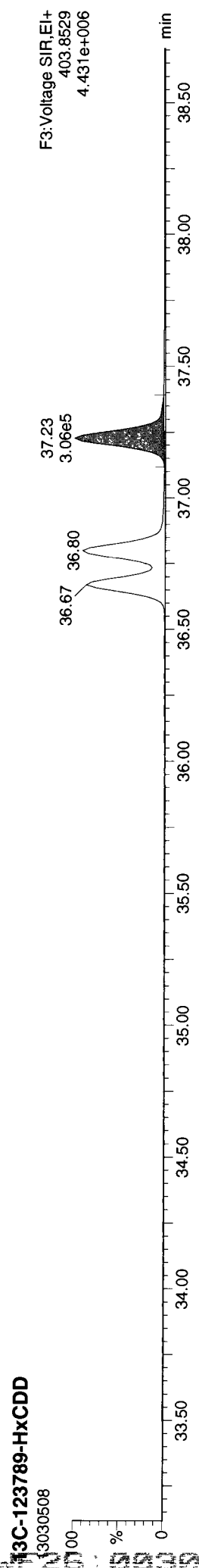
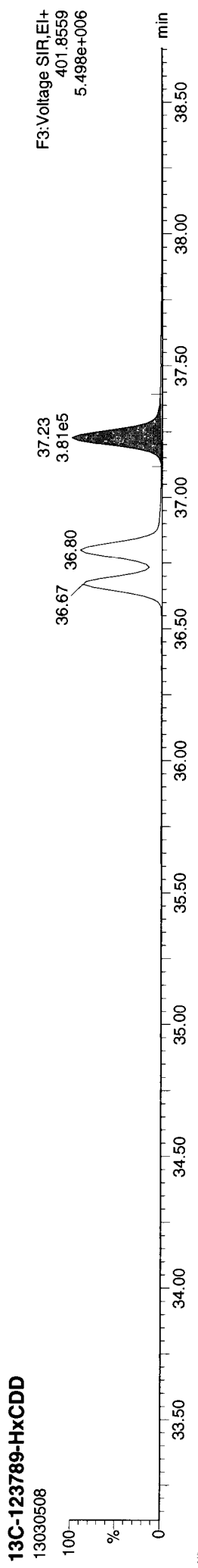
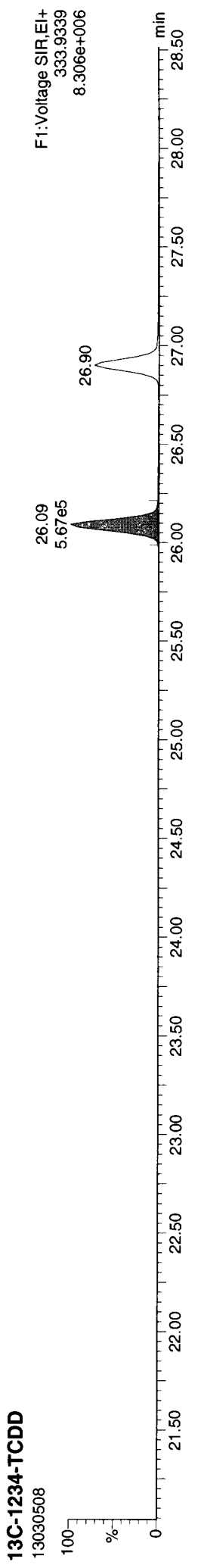
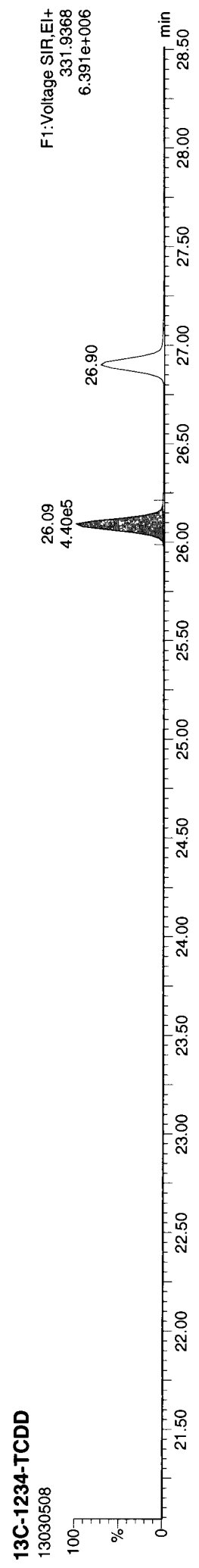
ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF	M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
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Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

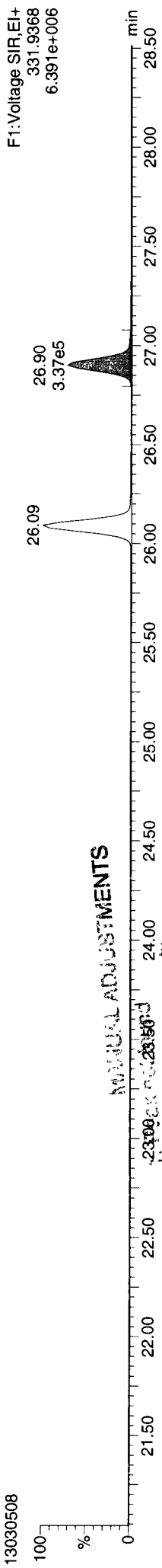


13030508

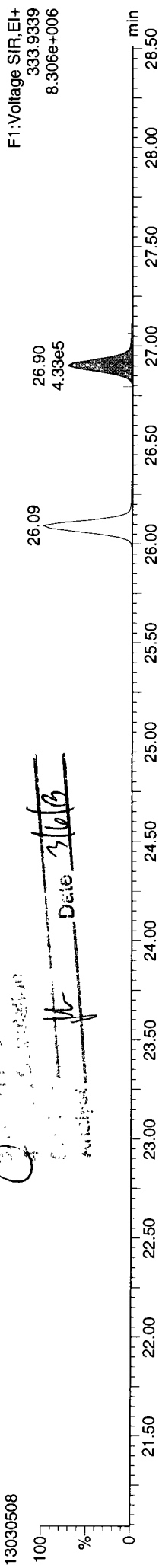
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

**ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk**

**13C-2378-TCDD**  
13030508

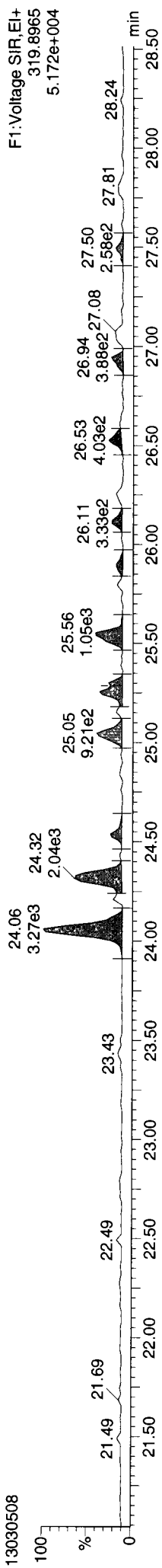


**13C-2378-TCDD**  
13030508

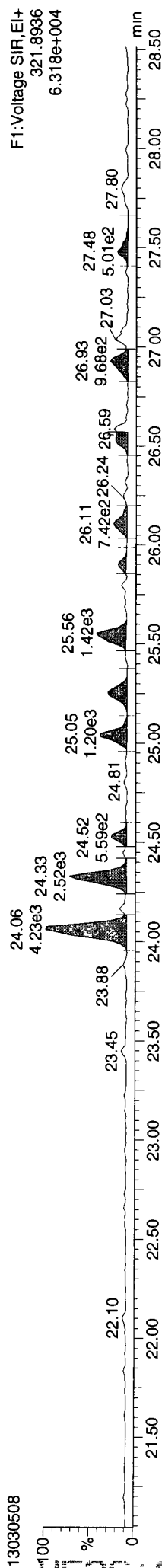


**ANNUAL ADJUSTMENTS**  
 2309K 05/28/03  
 27 Chromatography  
 27 Auto Integration  
 27 Auto Calibration  
 Date: 3/6/13

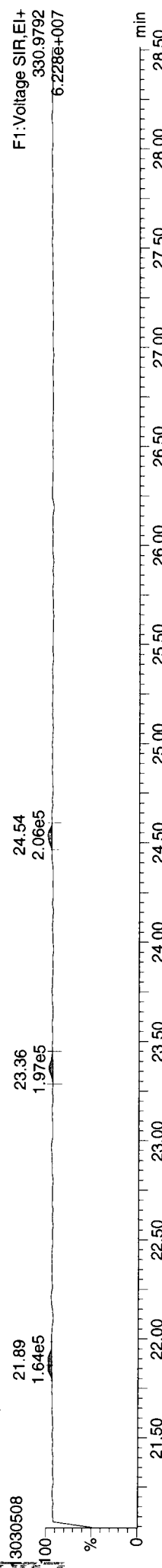
**Total-tetradoxins**  
13030508



**Total-tetradoxins**  
13030508



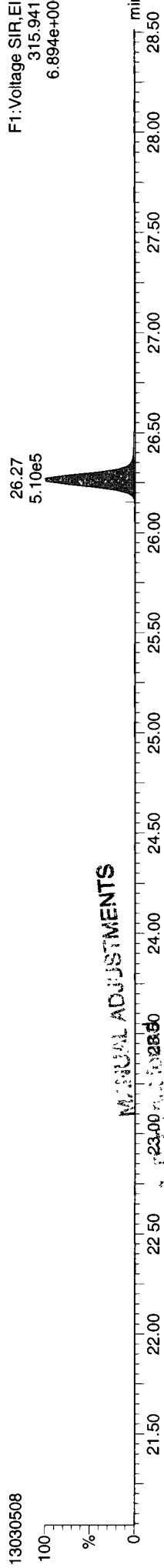
**FUNCTION1 PFK**  
13030508



Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13030505\DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

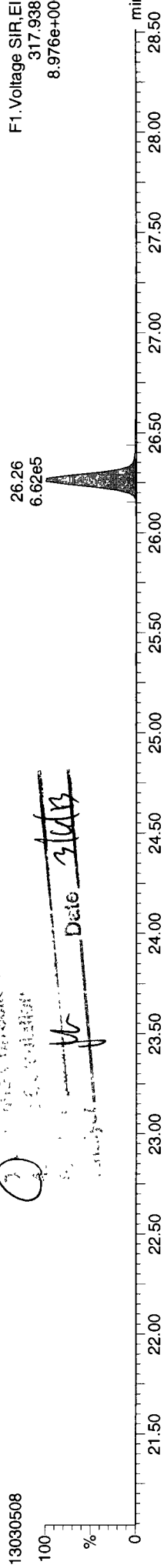
ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



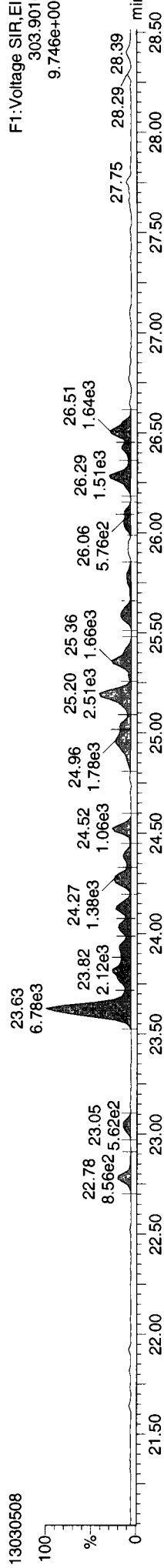
F1: Voltage SIR, EI+  
315.9419  
6.894e+006

13C-2378-TCDF



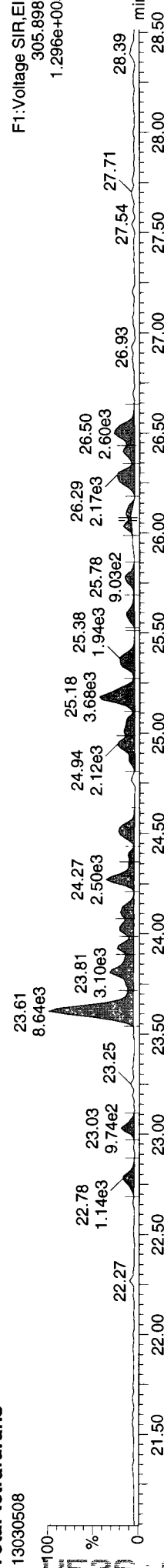
F1: Voltage SIR, EI+  
317.9389  
8.976e+006

Total-tetrafurans



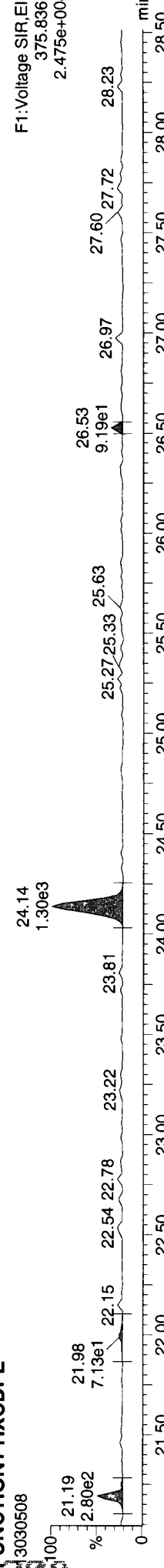
F1: Voltage SIR, EI+  
303.9016  
9.746e+004

Total-tetrafurans



F1: Voltage SIR, EI+  
305.8987  
1.296e+005

FUNCTION1 HXCDPE



F1: Voltage SIR, EI+  
375.8364  
2.475e+004

MANUAL ADJUSTMENTS

GC Chromatography  
GC Conditions  
GC Variables

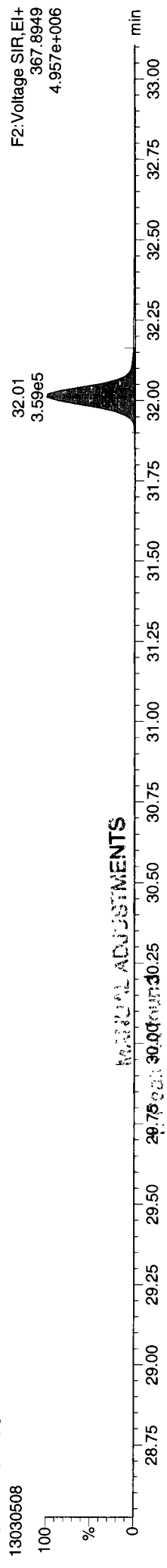
Date 3/6/13



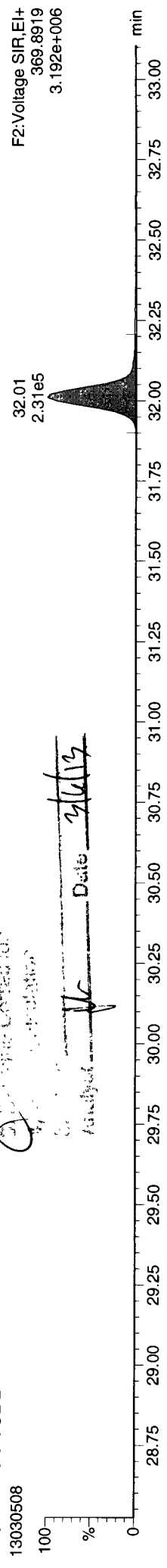
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD  
13030508

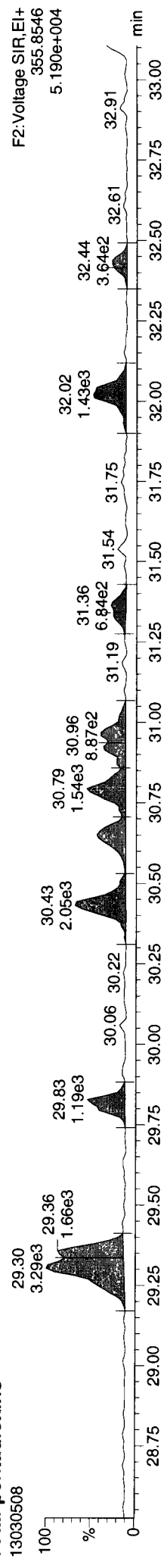


13C-12378-PeCDD  
13030508

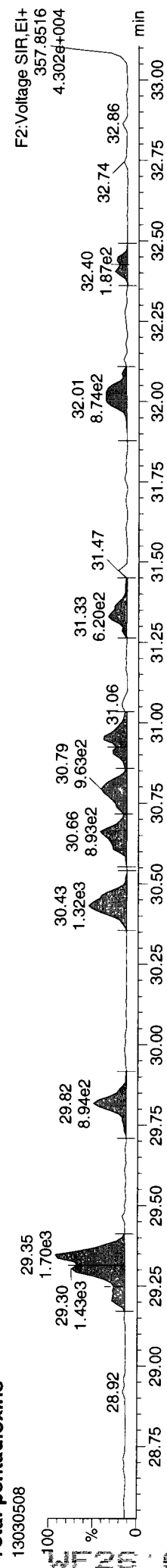


GC Chromatography  
Quantify the Contaminants  
Sample: 13030508  
Analyst: *pk* Date: 3/6/13

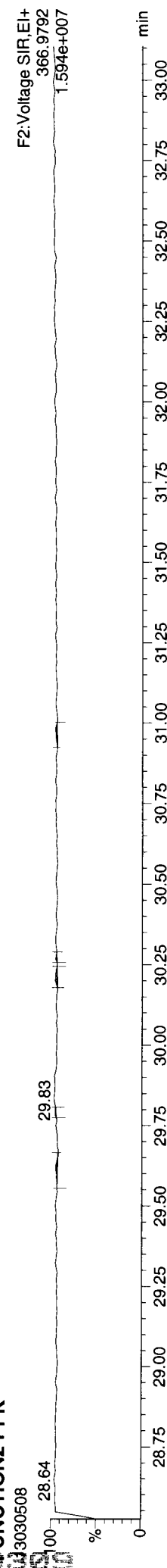
Total-pentadioxins  
13030508



Total-pentadioxins  
13030508



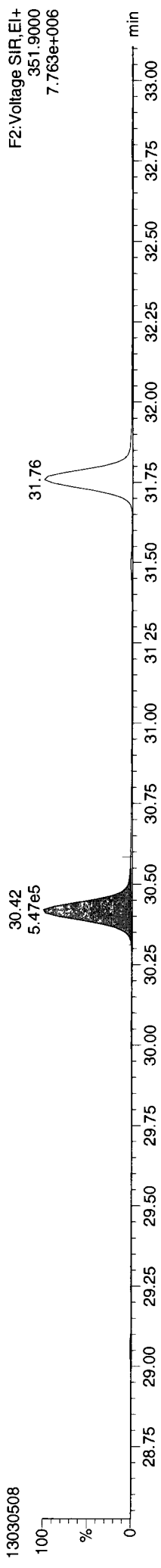
FUNCTION2 PFK  
13030508



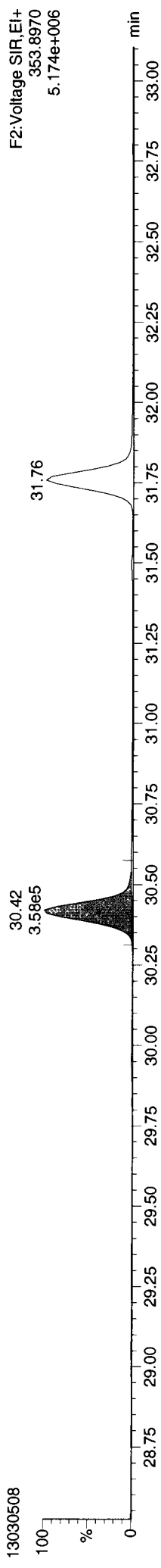
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

**ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk**

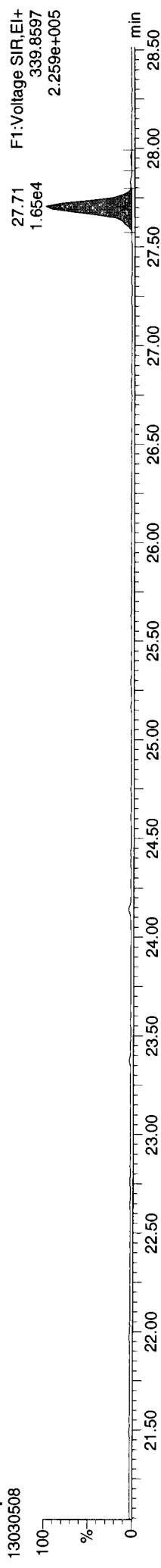
**13C-12378-PeCDF**



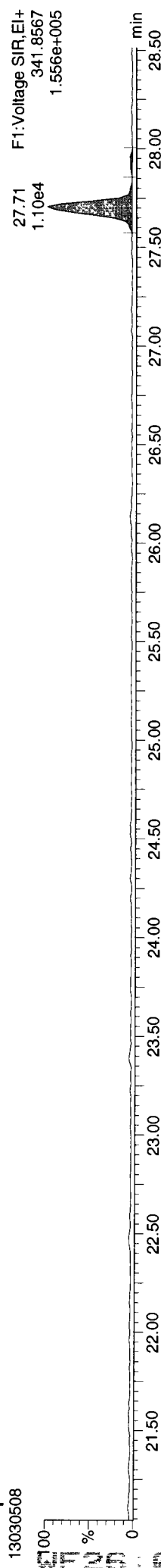
**13C-12378-PeCDF**



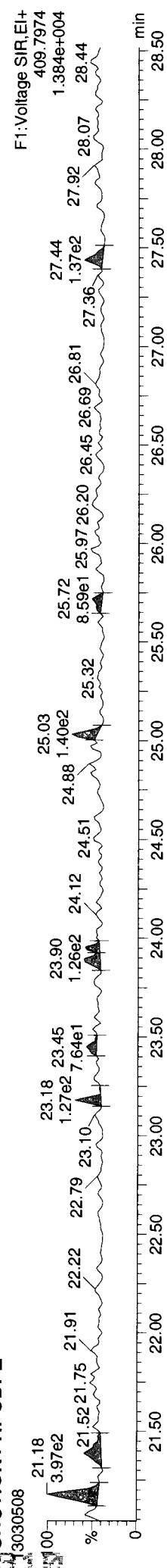
**Total-penta1**



**Total-penta1**



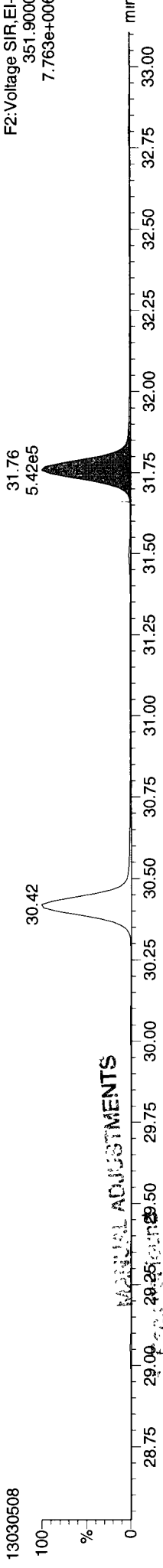
**FUNCTION1 HPCDFE**



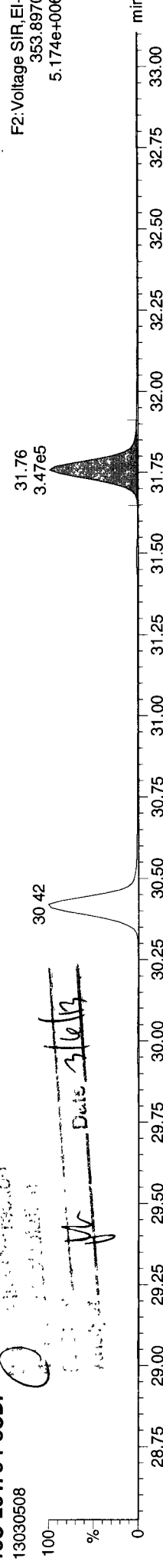
Quantify Sample Report  
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Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

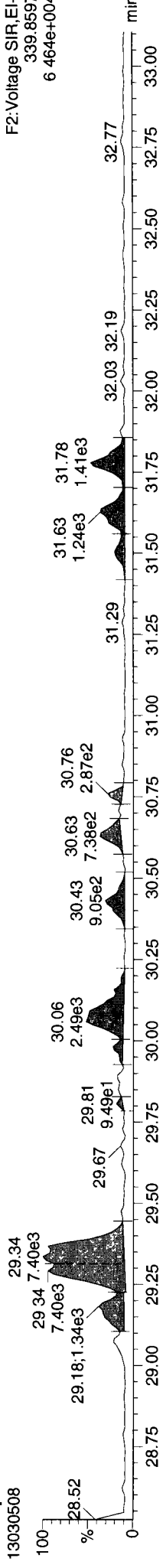
13C-23478-PeCDF



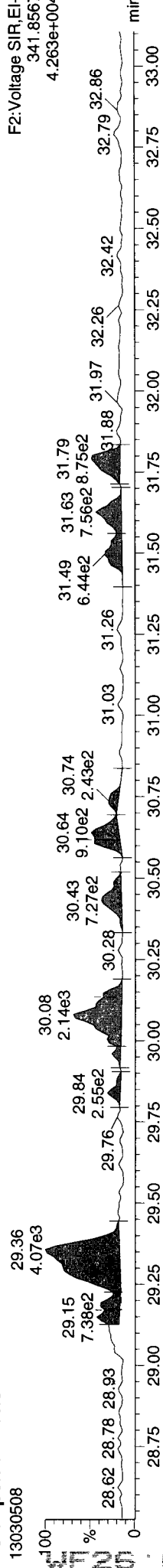
13C-23478-PeCDF



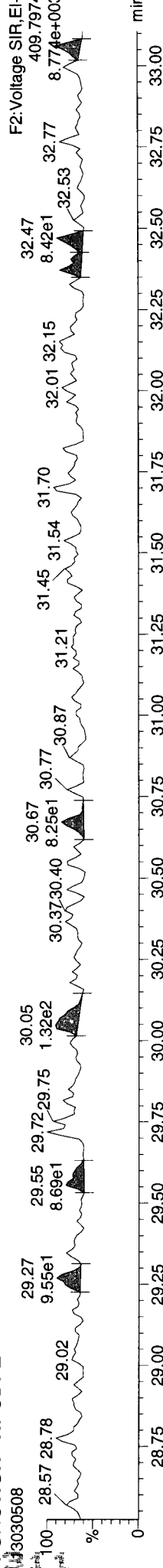
Total-pentafulurans



Total-pentafulurans



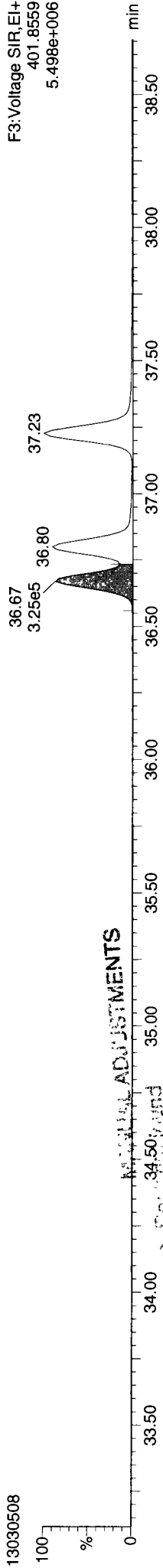
FUNCTION2 HPCDFE



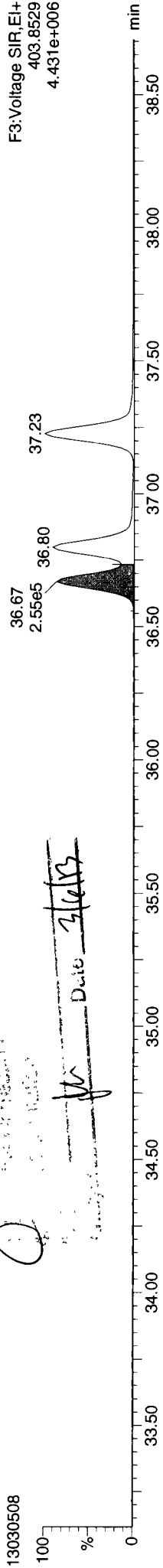
**Quantify Sample Report**  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

**ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk**

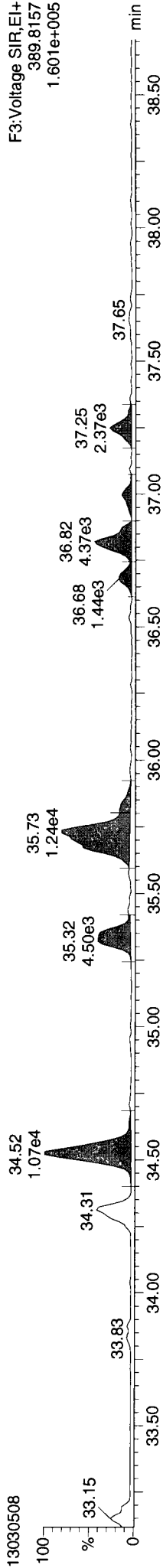
**13C-123478-HxCDD**



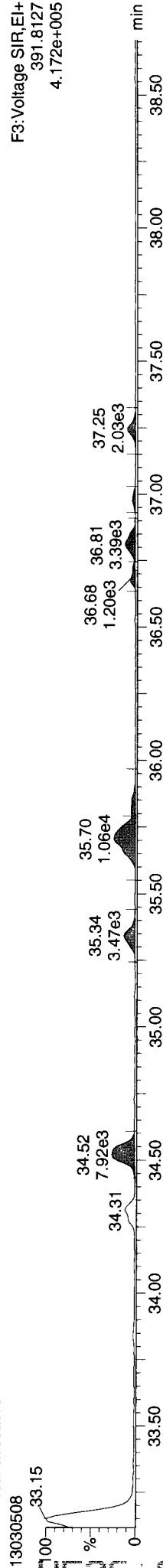
**13C-123478-HxCDD**



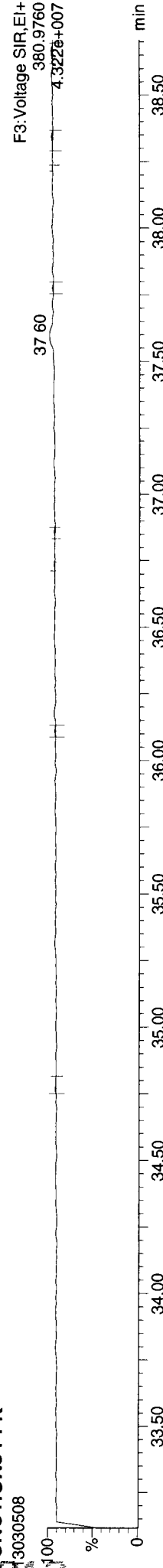
**Total-hexadioxins**



**Total-hexadioxins**



**FUNCTION3 PFK**

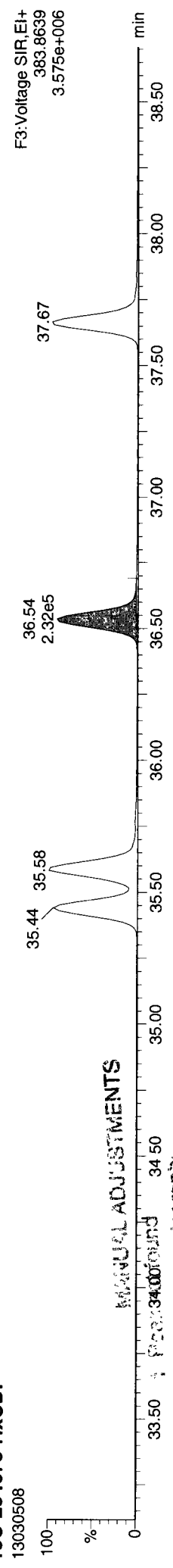


MANUAL ADJUSTMENTS  
 1. Peak 34.50 and 35.00  
 2. Peak 35.73  
 3. Peak 36.81  
 4. Peak 37.25  
 5. Peak 37.65  
 Date: 3/6/13

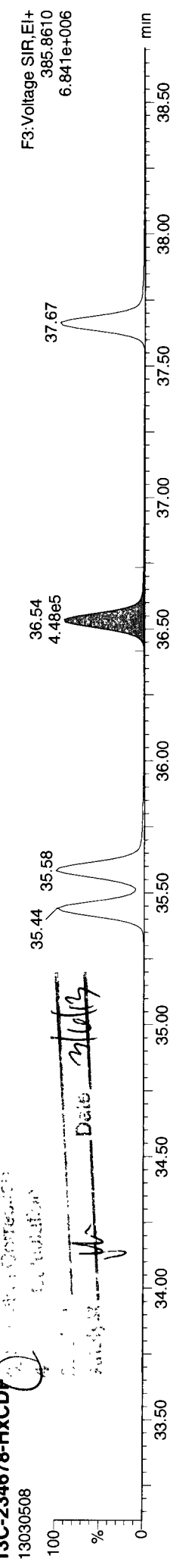
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13030505\DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF  
13030508

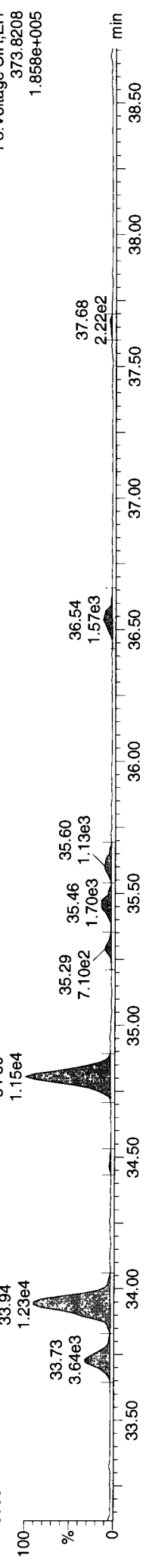


13C-234678-HxCDF  
13030508



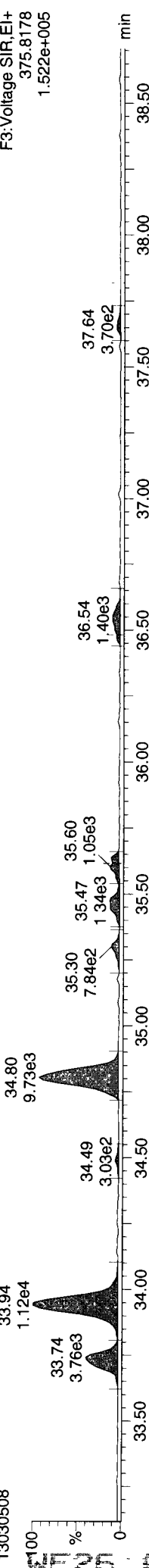
Total-hexafurans

13030508



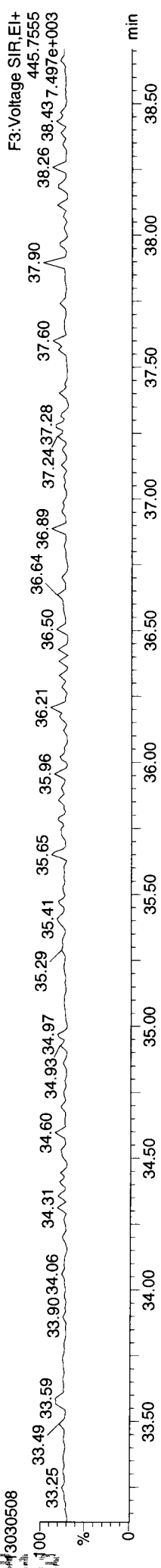
Total-hexafurans

13030508



FUNCTION3 OCDFE

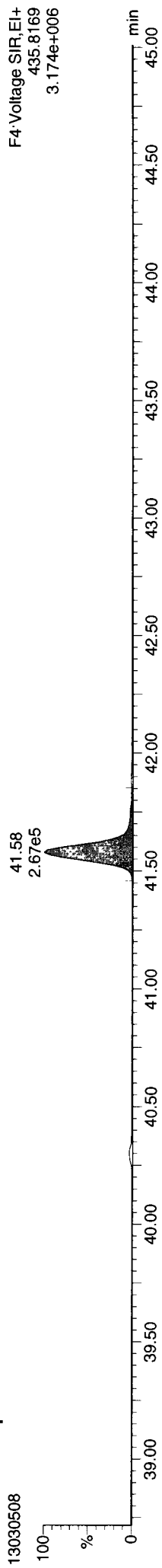
13030508



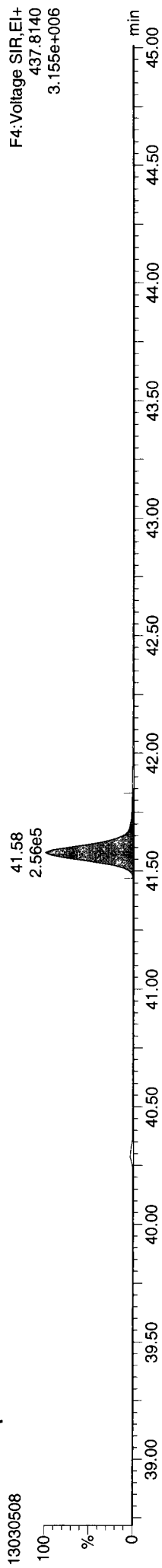
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

**ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk**

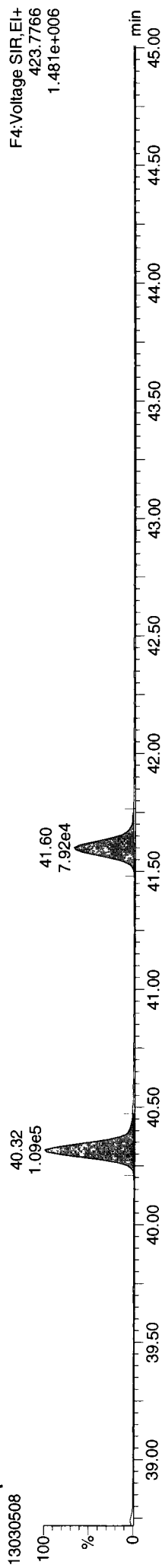
**13C-1234678-HpCDD**



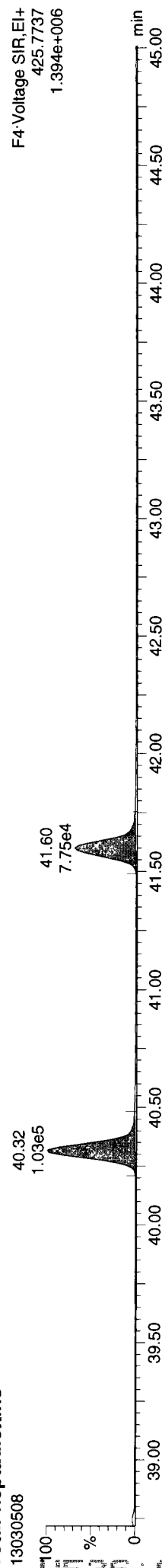
**13C-1234678-HpCDD**



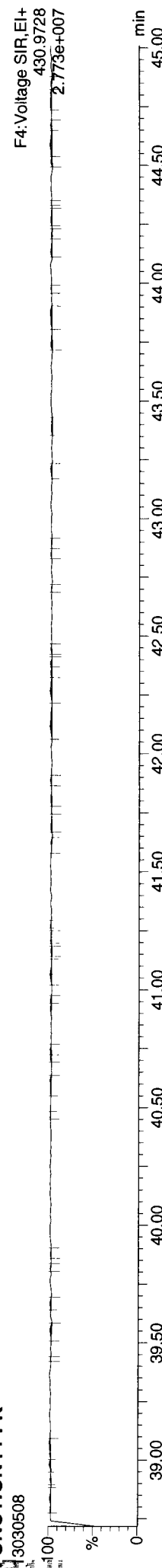
**Total-heptadioxins**



**Total-heptadioxins**



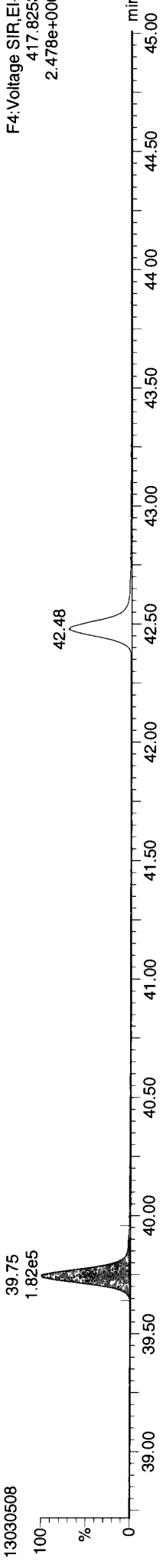
**FUNCTION4 PFK**



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

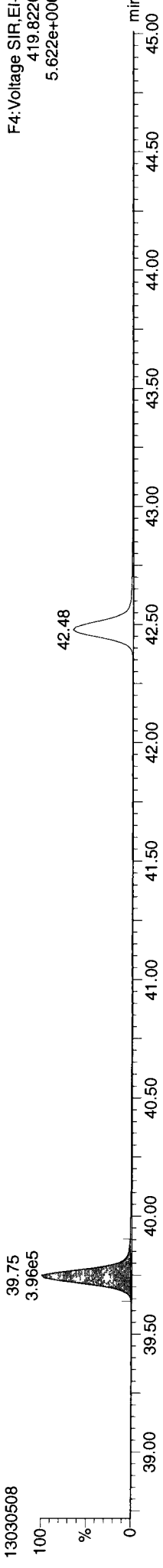
ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



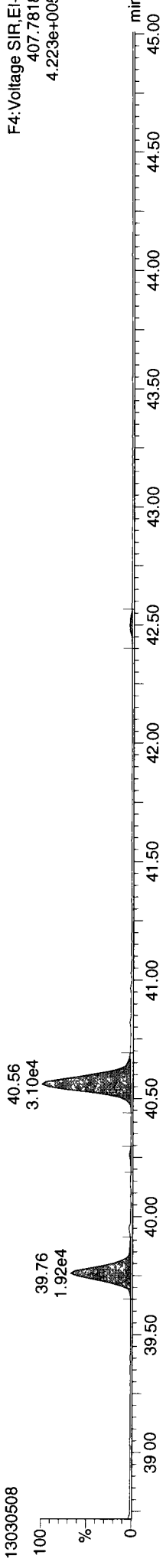
F4: Voltage SIR, EI+  
417.8253  
2.478e+006

13C-1234678-HpCDF



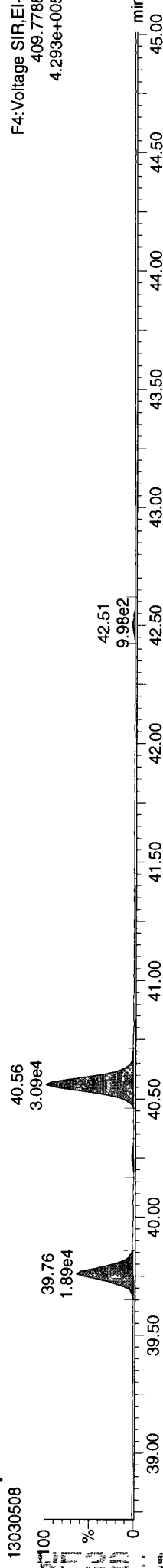
F4: Voltage SIR, EI+  
419.8220  
5.622e+006

Total-heptafurans



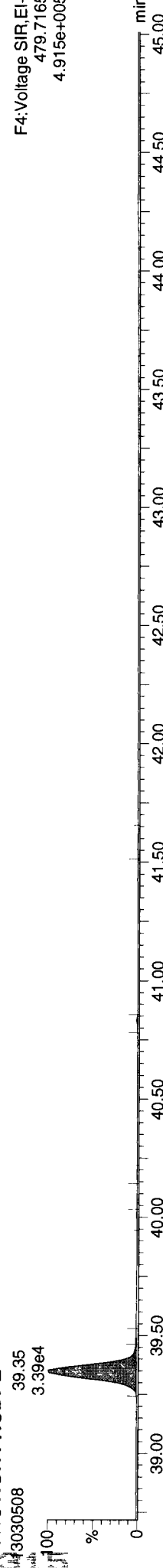
F4: Voltage SIR, EI+  
407.7818  
4.223e+005

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
4.293e+005

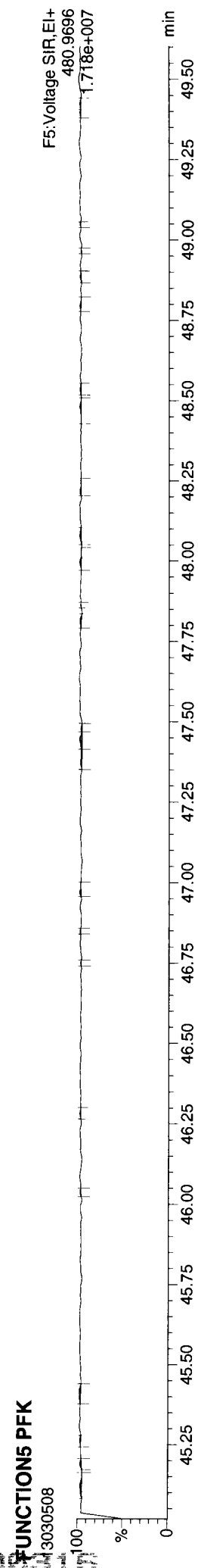
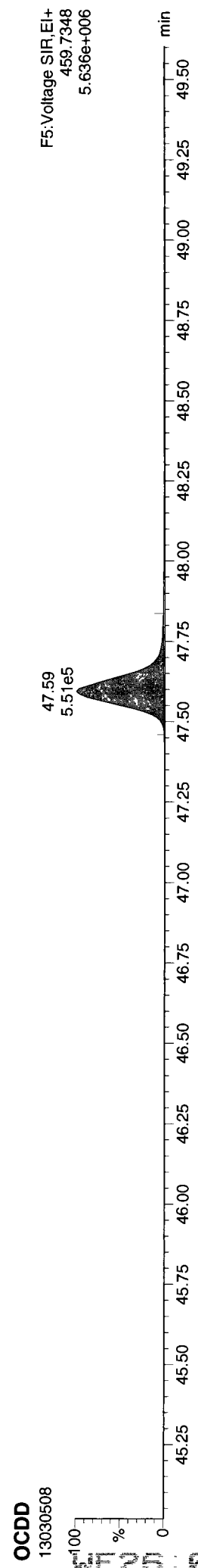
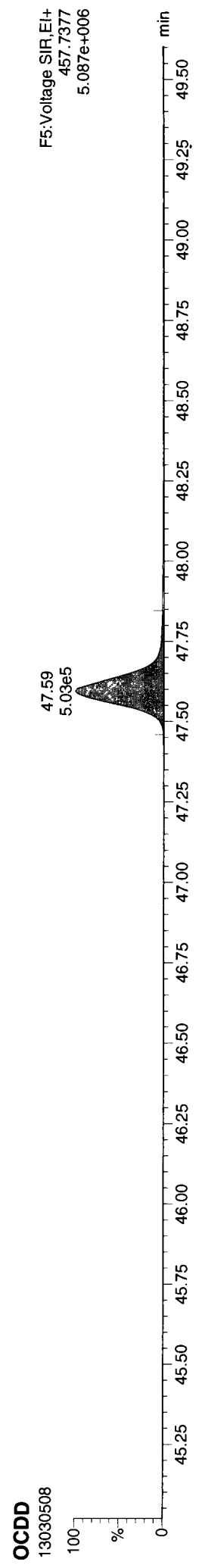
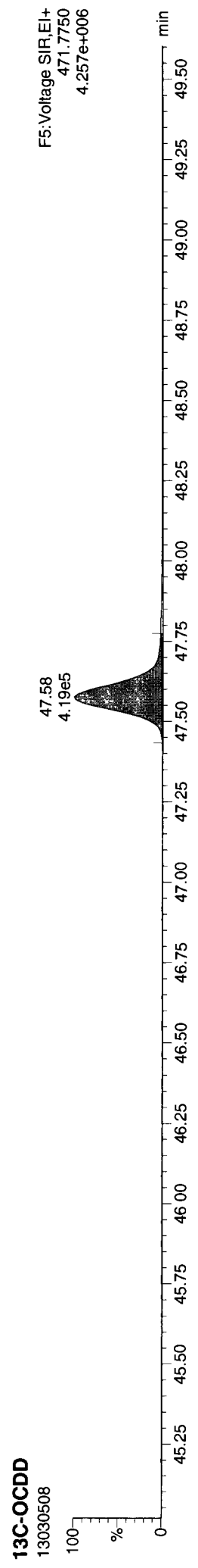
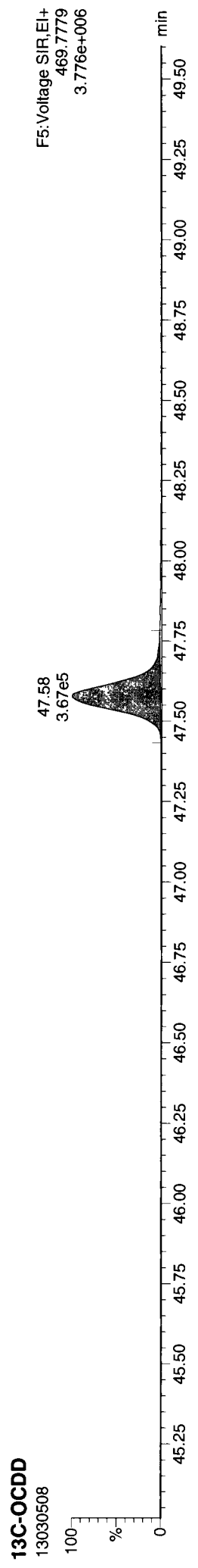
FUNCTION4 NCDPE



F4: Voltage SIR, EI+  
479.7165  
4.915e+005

**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

**ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk**

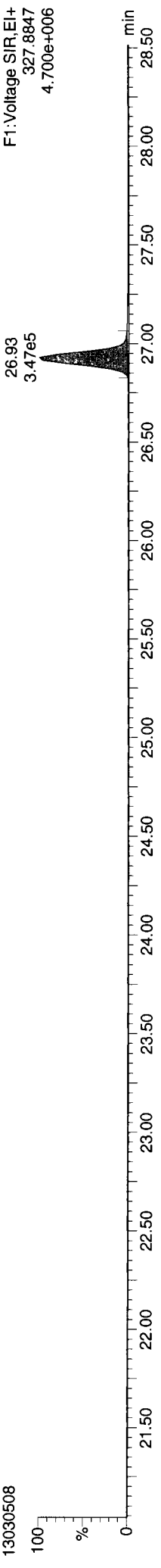




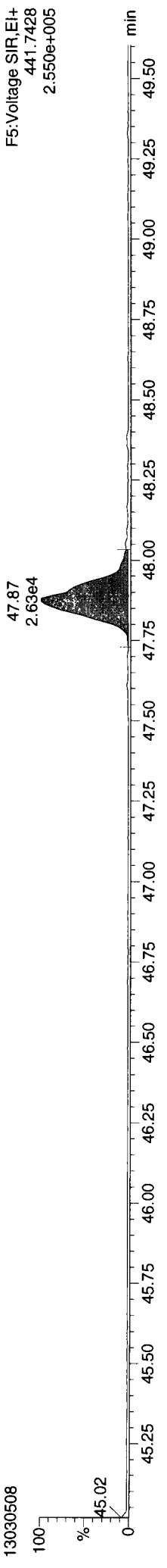
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:13:37 Pacific Standard Time

ID: WF26C, Name: 13030508, Date: 05-Mar-2013, Time: 17:45:07, Conditions: AUTOSPEC01, User: pk

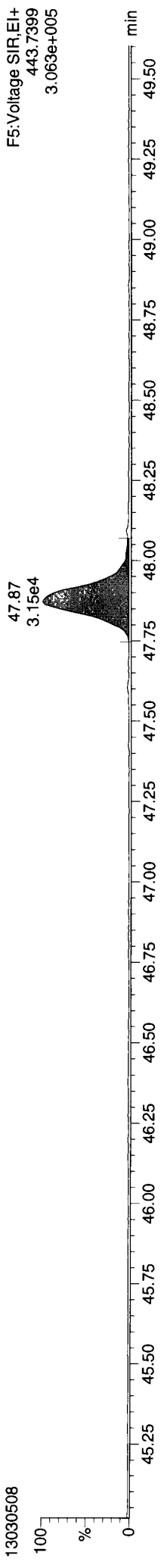
37CL-2378-TCDD



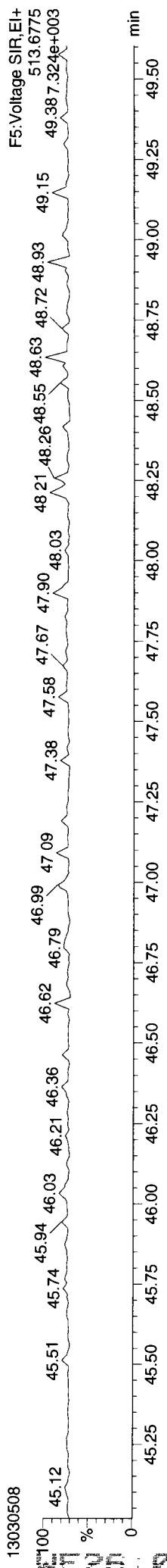
OCDF



OCDF



FUNCTION5 DCDPE



050017

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26D  
 Lab.File ID: 13030509  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.90	0.113	0.0760	
12378-PeCDD	356/358	32.02	0.444		
123478-HxCDD	390/392	36.68	0.677		
123678-HxCDD	390/392	36.82	2.22		
123789-HxCDD	390/392	37.24	1.46	1.33	
1234678-HpCDD	424/426	41.59	55.0		
OCDD	458/460	47.59	488		
2378-TCDF	304/306	26.29	0.213	0.190	
12378-PeCDF	340/342	0.00			0.095
23478-PeCDF	340/342	31.77	0.357	0.321	
123478-HxCDF	374/376	35.46	0.894		
234678-HxCDF	374/376	36.53	0.697	0.603	
123678-HxCDF	374/376	35.62	0.364		
123789-HxCDF	374/376	37.63	0.169	0.122	
1234678-HpCDF	408/410	39.75	14.9		
1234789-HpCDF	408/410	42.49	0.720		
OCDF	442/444	47.87	37.3		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report

MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

Compound	26.288	1.001	8.33e2	1.31e3	0.921	0.637	0.770	9.3	1375	2327	1.28e4	1.70e4	YES	0.190	0.213
2378-TCDF															
12378-PeCDF					0.912		1.550		1409	2866					
23478-PeCDF	31.769	1.000	1.55e3	1.28e3	0.943	1.209	1.550	16.6	1409	2866	2.34e4	1.76e4	YES	0.321	0.357 X
123478-HxCDF	35.463	1.001	3.28e3	3.02e3	1.101	1.089	1.240	21.4	2438	1424	5.21e4	4.39e4	NO	0.894	0.894
234678-HxCDF	36.527	1.000	2.18e3	2.37e3	1.073	0.921	1.240	10.3	2438	1424	2.50e4	2.78e4	YES	0.603	0.697
123678-HxCDF	35.617	1.001	1.43e3	1.23e3	1.056	1.163	1.240	9.5	2438	1424	2.31e4	1.68e4	NO	0.364	0.364
123789-HxCDF	37.633	0.999	6.89e2	3.27e2	1.017	2.109	1.240	3.6	2438	1424	8.75e3	7.55e3	YES	0.122	0.169
1234678-HpCDF	39.749	1.000	4.68e4	4.70e4	1.238	0.997	1.050	235.3	2683	1212	6.31e5	6.33e5	NO	14.925	14.925
1234789-HpCDF	42.489	1.000	1.73e3	1.76e3	1.224	0.983	1.050	10.3	2683	1212	2.78e4	2.75e4	NO	0.720	0.720
OCDF	47.873	1.006	7.26e4	8.43e4	1.162	0.861	0.890	366.1	1857	1741	6.80e5	8.34e5	NO	37.324	37.324
2378-TCDD	26.900	1.000	2.67e2	6.48e2	1.106	0.411	0.770	5.5	964	1611	5.26e3	8.06e3	YES	0.076	0.113
12378-PeCDD	32.021	1.000	1.39e3	1.04e3	1.001	1.334	1.550	16.1	1460	1412	2.35e4	1.82e4	NO	0.444	0.444
123478-HxCDD	36.680	1.000	1.81e3	1.66e3	0.978	1.089	1.240	18.0	1601	1502	2.89e4	2.36e4	NO	0.677	0.677
123678-HxCDD	36.822	1.001	6.96e3	5.02e3	0.929	1.386	1.240	64.1	1601	1502	1.03e5	7.67e4	NO	2.224	2.224
123789-HxCDD	37.239	1.012	3.66e3	3.61e3	0.904	1.013	1.240	33.3	1601	1502	5.33e4	4.31e4	YES	1.325	1.458
1234678-HpCDD	41.590	1.000	1.31e5	1.25e5	1.029	1.049	1.050	482.9	3347	2809	1.62e6	1.66e6	NO	55.030	55.030
OCDD	47.595	1.001	8.33e5	9.54e5	1.011	0.873	0.890	3135.1	2557	2350	8.02e6	9.16e6	NO	488.345	488.345
13C-2378-TCDF	26.257	1.006	4.74e5	6.18e5	1.522	0.767	0.770	2851.9	2282	2856	6.51e6	8.63e6	NO	73.890	73.890
13C-12378-PeCDF	30.410	1.165	5.35e5	3.37e5	1.185	1.588	1.550	1585.8	4765	3491	7.56e6	4.81e6	NO	75.757	75.757
13C-23478-PeCDF	31.758	1.217	5.12e5	3.30e5	1.136	1.551	1.550	1559.5	4765	3491	7.43e6	4.75e6	NO	76.229	76.229
13C-123478-HxCDF	35.441	0.952	2.18e5	4.22e5	1.284	0.516	0.510	876.5	3567	4302	3.13e6	6.06e6	NO	80.263	80.263
13C-123678-HxCDF	35.584	0.956	2.37e5	4.53e5	1.383	0.523	0.510	913.8	3567	4302	3.26e6	6.38e6	NO	80.446	80.446
13C-234678-HxCDF	36.527	0.981	2.15e5	3.94e5	1.283	0.545	0.510	847.3	3567	4302	3.02e6	5.65e6	NO	76.334	76.334
13C-123789-HxCDF	37.655	1.012	2.04e5	3.85e5	1.099	0.531	0.510	826.7	3567	4302	2.95e6	5.45e6	NO	86.361	86.361
13C-1234678-HpCDF	39.738	1.067	1.57e5	3.51e5	1.070	0.446	0.440	894.3	2498	2745	2.23e6	4.88e6	NO	76.471	76.471
13C-1234789-HpCDF	42.479	1.141	1.21e5	2.76e5	0.774	0.437	0.440	576.5	2498	2745	1.44e6	3.23e6	NO	82.649	82.649
13C-1234-TCDD	26.093	0.000	4.24e5	5.47e5	1.000	0.775	0.770	1791.7	3356	2367	6.01e6	7.78e6	NO	100.000	100.000
13C-2378-TCDD	26.900	1.031	3.19e5	4.14e5	0.943	0.771	0.770	1340.8	3356	2367	4.50e6	5.85e6	NO	79.992	79.992
13C-12378-PeCDD	32.010	1.227	3.31e5	2.16e5	0.715	1.532	1.550	2307.1	2099	1198	4.84e6	3.14e6	NO	78.791	78.791
13C-123478-HxCDD	36.669	0.985	2.98e5	2.25e5	1.032	1.323	1.240	1552.6	2763	2314	4.29e6	3.29e6	NO	81.664	81.664
13C-123678-HxCDD	36.800	0.988	3.21e5	2.59e5	1.076	1.243	1.240	1614.6	2763	2314	4.46e6	3.51e6	NO	86.765	86.765
13C-1234678-HpCDD	41.569	1.117	2.28e5	2.25e5	0.838	1.014	1.050	1496.7	1966	2100	2.94e6	2.86e6	NO	87.096	87.096
13C-OCDD	47.568	1.278	3.42e5	3.82e5	0.675	0.897	0.890	1788.4	1873	1900	3.35e6	3.67e6	NO	172.579	172.579

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**Quantify Sample Summary Report**      **MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

**ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk**

13C-123789-HxCDD	37.228	0.000	3.41e5	2.80e5	1.000	1.218	1.240	1732.3	2763	2314	4.79e6	3.97e6	NO	100.000
Total-tetrafurans			2.18e4		0.921				1375		2.96e5			5.089
Total-penta1			2.36e4						522		3.21e5			4.910
Total-pentiafurans			1.30e4		0.927				1409		1.48e5			2.797
Total-hexafurans			5.91e4		1.062				2438		8.92e5			15.936
Total-heptafurans			1.27e5		1.231				2683		1.69e6			44.179
Total-Furans			3.17e5		1.065				1375		4.03e6			110.274
Total-tetraioxins			8.26e3		1.106				964		1.20e5			2.433
Total-pentadioxins			2.51e4		1.001				1460		3.06e5			7.544
Total-hexadioxins			5.63e4		0.937				1601		7.10e5			19.626
Total-heptadioxins			2.61e5		1.029				3347		3.44e6			110.342
Total-Dioxins			1.18e6		0.994				964		1.26e7			628.402
Total-TEQ			1.50e6						964		1.66e7			738.677
37CL-2378-TCDD	26.915	1.031	3.25e5		1.051			2344.8	1910		4.48e6			31.860
FUNCTION1 PFK			3.94e7						386364		2.51e8			
FUNCTION2 PFK			0.00e0						206225		0.00e0			0.000
FUNCTION3 PFK			8.96e5						312151		2.38e7			
FUNCTION4 PFK			0.00e0						267121		0.00e0			
FUNCTION5 PFK			7.22e4						200659		3.23e6			
FUNCTION1 HXCDPE			3.04e2						369		5.64e3			0.000
FUNCTION1 HPCDPE			1.51e3						984		3.27e4			0.000
FUNCTION2 HPCDPE			7.16e2						1303		1.83e4			0.000
FUNCTION3 OCDPE			0.00e0						471		0.00e0			0.000
FUNCTION4 NCDPE			6.64e3						583		9.10e4			
FUNCTION5 DCDPE			0.00e0						525		0.00e0			0.000

05 03 2013 11:47:28

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

TF

35	Total-tetrafurans	303.9016	24.93	1915.613	0.921	0.190	1.10	0.77	YES	8.2	
35	Total-tetrafurans	303.9016	24.51	2102.093	0.921	0.209	0.74	0.77	NO	9.5	
35	Total-tetrafurans	303.9016	24.36	895.178	0.921	0.089	0.47	0.77	YES	3.0	
35	Total-tetrafurans	303.9016	24.27	3480.502	0.921	0.346	0.88	0.77	NO	18.7	
35	Total-tetrafurans	303.9016	24.12	973.735	0.921	0.097	0.48	0.77	YES	5.2	
35	Total-tetrafurans	303.9016	24.03	4294.579	0.921	0.427	0.68	0.77	NO	10.5	
35	Total-tetrafurans	303.9016	23.78	1630.399	0.921	0.162	0.60	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	23.60	16035.477	0.921	1.593	0.70	0.77	NO	63.3	
35	Total-tetrafurans	303.9016	23.05	1149.634	0.921	0.114	0.66	0.77	NO	5.9	
35	Total-tetrafurans	303.9016	22.78	1673.538	0.921	0.166	0.65	0.77	YES	6.4	
35	Total-tetrafurans	303.9016	26.51	2574.908	0.921	0.256	0.89	0.77	YES	8.2	
35	Total-tetrafurans	303.9016	26.41	1002.376	0.921	0.100	0.45	0.77	YES	3.1	
1	2378-TCDF	303.9016	26.29	2141.291	0.921	0.213	0.190	0.64	0.77	YES	9.3
35	Total-tetrafurans	303.9016	26.09	1104.713	0.921	0.110	0.49	0.77	YES	3.7	
35	Total-tetrafurans	303.9016	26.02	529.887	0.921	0.053	0.52	0.77	YES	2.8	
35	Total-tetrafurans	303.9016	25.78	628.332	0.921	0.062	0.64	0.77	YES	2.7	
35	Total-tetrafurans	303.9016	25.60	1077.848	0.921	0.107	1.56	0.77	YES	10.1	
35	Total-tetrafurans	303.9016	25.38	1427.620	0.921	0.142	0.97	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	25.18	5027.713	0.921	0.500	0.80	0.77	NO	25.1	
35	Total-tetrafurans	303.9016	25.06	1558.419	0.921	0.155	1.13	0.77	YES	6.6	

PP

36	Total-penta1	339.8597	27.69	38586.408		4.910	1.57	1.55	NO	614.7
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PF

37	Total-pentafurans	339.8597	29.34	13339.177	0.927	1.678	1.46	1.55	NO	53.9	
37	Total-pentafurans	339.8597	29.17	2103.495	0.927	0.265	2.15	1.55	YES	9.0	
3	23478-PeCDF	339.8597	31.77	2828.810	0.943	0.357	0.321	1.21	1.55	YES	16.6
37	Total-pentafurans	339.8597	30.15	468.582	0.927	0.059	0.63	1.55	YES	6.0	
37	Total-pentafurans	339.8597	30.06	3486.773	0.927	0.439	1.30	1.55	YES	19.6	

HF

6	123678-HxCDF	373.8208	35.62	2651.055	1.056	0.364	0.364	1.16	1.24	NO	9.5
4	123478-HxCDF	373.8208	35.46	6302.308	1.101	0.894	0.894	1.09	1.24	NO	21.4
38	Total-hexa-furans	373.8208	35.29	1300.443	1.062	0.194	0.70	1.24	YES	3.6	
38	Total-hexa-furans	373.8208	34.81	38387.260	1.062	5.720	1.23	1.24	NO	133.0	
38	Total-hexa-furans	373.8208	34.30	805.092	1.062	0.120	2.34	1.24	YES	4.5	
38	Total-hexa-furans	373.8208	33.94	39083.279	1.062	5.824	1.26	1.24	NO	133.3	
38	Total-hexa-furans	373.8208	33.73	13112.178	1.062	1.954	1.32	1.24	NO	46.8	
7	123789-HxCDF	373.8208	37.63	1015.715	1.017	0.169	0.122	2.11	1.24	YES	3.6
5	234678-HxCDF	373.8208	36.53	4546.022	1.073	0.697	0.603	0.92	1.24	YES	10.3

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
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ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

HPF

39	Total-heptafurans	407.7818	39.91	1202.947	1.231	0.216		1.03	1.05	NO	4.9
8	1234678-HpCDF	407.7818	39.75	93831.344	1.238	14.925	14.925	1.00	1.05	NO	235.3
9	1234789-HpCDF	407.7818	42.49	3495.124	1.224	0.720	0.720	0.98	1.05	NO	10.3
39	Total-heptafurans	407.7818	40.55	156584.485	1.231	28.122		0.98	1.05	NO	373.8
39	Total-heptafurans	407.7818	40.29	1091.331	1.231	0.196		0.43	1.05	YES	3.9

*R*

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

35	Total-tetrafurans	303.9016	24.93	1915.613	0.921	0.190		1.10	0.77	YES	8.2
35	Total-tetrafurans	303.9016	24.51	2102.093	0.921	0.209		0.74	0.77	NO	9.5
35	Total-tetrafurans	303.9016	24.36	895.178	0.921	0.089		0.47	0.77	YES	3.0
35	Total-tetrafurans	303.9016	24.27	3480.502	0.921	0.346		0.88	0.77	NO	18.7
35	Total-tetrafurans	303.9016	24.12	973.735	0.921	0.097		0.48	0.77	YES	5.2
35	Total-tetrafurans	303.9016	24.03	4294.579	0.921	0.427		0.68	0.77	NO	10.5
35	Total-tetrafurans	303.9016	23.78	1630.399	0.921	0.162		0.60	0.77	YES	6.6
35	Total-tetrafurans	303.9016	23.60	16035.477	0.921	1.593		0.70	0.77	NO	63.3
35	Total-tetrafurans	303.9016	23.05	1149.634	0.921	0.114		0.66	0.77	NO	5.9
35	Total-tetrafurans	303.9016	22.78	1673.538	0.921	0.166		0.65	0.77	YES	6.4
40	Total-Furans	303.9016	28.39	448.213	1.065	0.039		0.58	0.77	YES	2.4
35	Total-tetrafurans	303.9016	26.51	2574.908	0.921	0.256		0.89	0.77	YES	8.2
35	Total-tetrafurans	303.9016	26.41	1002.376	0.921	0.100		0.45	0.77	YES	3.1
1	2378-TCDF	303.9016	26.29	2141.291	0.921	0.213	0.190	0.64	0.77	YES	9.3
35	Total-tetrafurans	303.9016	26.09	1104.713	0.921	0.110		0.49	0.77	YES	3.7
35	Total-tetrafurans	303.9016	26.02	529.887	0.921	0.053		0.52	0.77	YES	2.8
35	Total-tetrafurans	303.9016	25.78	628.332	0.921	0.062		0.64	0.77	YES	2.7
35	Total-tetrafurans	303.9016	25.60	1077.848	0.921	0.107		1.56	0.77	YES	10.1
35	Total-tetrafurans	303.9016	25.38	1427.620	0.921	0.142		0.97	0.77	YES	6.6
35	Total-tetrafurans	303.9016	25.18	5027.713	0.921	0.500		0.80	0.77	NO	25.1
35	Total-tetrafurans	303.9016	25.06	1558.419	0.921	0.155		1.13	0.77	YES	6.6
37	Total-pentafurans	339.8597	29.34	13339.177	0.927	1.678		1.46	1.55	NO	53.9
37	Total-pentafurans	339.8597	29.17	2103.495	0.927	0.265		2.15	1.55	YES	9.0
3	23478-PeCDF	339.8597	31.77	2828.810	0.943	0.357	0.321	1.21	1.55	YES	16.6
37	Total-pentafurans	339.8597	30.15	468.582	0.927	0.059		0.63	1.55	YES	6.0
37	Total-pentafurans	339.8597	30.06	3486.773	0.927	0.439		1.30	1.55	YES	19.6
6	123678-HxCDF	373.8208	35.62	2651.055	1.056	0.364	0.364	1.16	1.24	NO	9.5
4	123478-HxCDF	373.8208	35.46	6302.308	1.101	0.894	0.894	1.09	1.24	NO	21.4
38	Total-hexafurans	373.8208	35.29	1300.443	1.062	0.194		0.70	1.24	YES	3.6
38	Total-hexafurans	373.8208	34.81	38387.260	1.062	5.720		1.23	1.24	NO	133.0
38	Total-hexafurans	373.8208	34.30	805.092	1.062	0.120		2.34	1.24	YES	4.5
38	Total-hexafurans	373.8208	33.94	39083.279	1.062	5.824		1.26	1.24	NO	133.3
38	Total-hexafurans	373.8208	33.73	13112.178	1.062	1.954		1.32	1.24	NO	46.8
7	123789-HxCDF	373.8208	37.63	1015.715	1.017	0.169	0.122	2.11	1.24	YES	3.6
5	234678-HxCDF	373.8208	36.53	4546.022	1.073	0.697	0.603	0.92	1.24	YES	10.3
39	Total-heptafurans	407.7818	39.91	1202.947	1.231	0.216		1.03	1.05	NO	4.9
8	1234678-HpCDF	407.7818	39.75	93831.344	1.238	14.925	14.925	1.00	1.05	NO	235.3
9	1234789-HpCDF	407.7818	42.49	3495.124	1.224	0.720	0.720	0.98	1.05	NO	10.3
39	Total-heptafurans	407.7818	40.55	156584.485	1.231	28.122		0.98	1.05	NO	373.8
39	Total-heptafurans	407.7818	40.29	1091.331	1.231	0.196		0.43	1.05	YES	3.9
10	OCDF	441.7428	47.87	156975.461	1.162	37.324	37.324	0.86	0.89	NO	366.1
36	Total-penta1	339.8597	27.69	38586.408		4.910		1.57	1.55	NO	614.7

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TD

#	Name	Mass	Area	RT	Abundance	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
41	Total-tetradiioxins	319.8965	26.08	684.970	1.106	0.084		1.68	0.77	YES	7.2
41	Total-tetradiioxins	319.8965	25.53	2721.223	1.106	0.336		0.80	0.77	NO	16.8
41	Total-tetradiioxins	319.8965	25.24	997.566	1.106	0.123		0.75	0.77	NO	6.1
41	Total-tetradiioxins	319.8965	25.05	2356.588	1.106	0.291		0.60	0.77	YES	13.1
41	Total-tetradiioxins	319.8965	24.54	831.634	1.106	0.103		0.97	0.77	YES	5.4
41	Total-tetradiioxins	319.8965	24.32	3743.929	1.106	0.462		0.71	0.77	NO	23.9
41	Total-tetradiioxins	319.8965	24.05	5376.660	1.106	0.663		0.75	0.77	NO	36.2
41	Total-tetradiioxins	319.8965	27.50	1016.558	1.106	0.125		0.80	0.77	NO	6.6
11	2378-TCDD	319.8965	26.90	914.310	1.106	0.113	0.076	0.41	0.77	YES	5.5
41	Total-tetradiioxins	319.8965	26.53	1081.632	1.106	0.133		0.42	0.77	YES	3.8

PD

#	Name	Mass	Area	RT	Abundance	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
42	Total-pentadiioxins	355.8546	29.82	1210.125	1.001	0.221		1.98	1.55	YES	7.1
42	Total-pentadiioxins	355.8546	29.26	26789.530	1.001	4.886		1.56	1.55	NO	111.9
12	12378-PeCDD	355.8546	32.02	2434.595	1.001	0.444	0.444	1.33	1.55	NO	16.1
42	Total-pentadiioxins	355.8546	31.35	1202.277	1.001	0.219		1.41	1.55	NO	7.6
42	Total-pentadiioxins	355.8546	31.05	509.529	1.001	0.093		0.40	1.55	YES	2.6
42	Total-pentadiioxins	355.8546	30.79	1496.185	1.001	0.273		1.85	1.55	YES	12.7
42	Total-pentadiioxins	355.8546	30.66	3363.261	1.001	0.613		1.86	1.55	YES	20.3
42	Total-pentadiioxins	355.8546	30.57	1173.392	1.001	0.214		0.72	1.55	YES	9.6
42	Total-pentadiioxins	355.8546	30.42	3186.860	1.001	0.581		1.87	1.55	YES	21.9

HD

#	Name	Mass	Area	RT	Abundance	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
43	Total-hexadiioxins	389.8157	37.00	1524.630	0.937	0.295		0.74	1.24	YES	6.8
14	123678-HxCDD	389.8157	36.82	11985.095	0.929	2.224	2.224	1.39	1.24	NO	64.1
13	123478-HxCDD	389.8157	36.68	3465.438	0.978	0.677	0.677	1.09	1.24	NO	18.0
43	Total-hexadiioxins	389.8157	35.73	39231.332	0.937	7.589		1.23	1.24	NO	121.0
43	Total-hexadiioxins	389.8157	35.33	6458.298	0.937	1.249		1.39	1.24	NO	36.7
43	Total-hexadiioxins	389.8157	34.52	31707.356	0.937	6.134		1.28	1.24	NO	163.5
15	123789-HxCDD	389.8157	37.24	7272.713	0.904	1.458	1.325	1.01	1.24	YES	33.3

HPD

#	Name	Mass	Area	RT	Abundance	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
16	1234678-HpCDD	423.7766	41.59	256446.883	1.029	55.030	55.030	1.05	1.05	NO	482.9
44	Total-heptadiioxins	423.7766	40.31	257759.766	1.029	55.312		1.01	1.05	NO	545.5



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Dioxins,TD,PD,HD,HPD,OD

Retention Time	Mass	Area	Height	Height	Height	Height	Height	Height	Height	Height	Height
41	Total-tetradiioxins	319.8965	26.08	684.970	1.106	0.084		1.68	0.77	YES	7.2
41	Total-tetradiioxins	319.8965	25.53	2721.223	1.106	0.336		0.80	0.77	NO	16.8
41	Total-tetradiioxins	319.8965	25.24	997.566	1.106	0.123		0.75	0.77	NO	6.1
41	Total-tetradiioxins	319.8965	25.05	2356.588	1.106	0.291		0.60	0.77	YES	13.1
41	Total-tetradiioxins	319.8965	24.54	831.634	1.106	0.103		0.97	0.77	YES	5.4
41	Total-tetradiioxins	319.8965	24.32	3743.929	1.106	0.462		0.71	0.77	NO	23.9
41	Total-tetradiioxins	319.8965	24.05	5376.660	1.106	0.663		0.75	0.77	NO	36.2
45	Total-Dioxins	319.8965	27.78	809.802	0.994	0.111		1.29	0.77	YES	6.5
41	Total-tetradiioxins	319.8965	27.50	1016.558	1.106	0.125		0.80	0.77	NO	6.6
11	2378-TCDD	319.8965	26.90	914.310	1.106	0.113	0.076	0.41	0.77	YES	5.5
41	Total-tetradiioxins	319.8965	26.53	1081.632	1.106	0.133		0.42	0.77	YES	3.8
42	Total-pentadiioxins	355.8546	29.82	1210.125	1.001	0.221		1.98	1.55	YES	7.1
42	Total-pentadiioxins	355.8546	29.26	26789.530	1.001	4.886		1.56	1.55	NO	111.9
12	12378-PeCDD	355.8546	32.02	2434.595	1.001	0.444	0.444	1.33	1.55	NO	16.1
42	Total-pentadiioxins	355.8546	31.35	1202.277	1.001	0.219		1.41	1.55	NO	7.6
42	Total-pentadiioxins	355.8546	31.05	509.529	1.001	0.093		0.40	1.55	YES	2.6
42	Total-pentadiioxins	355.8546	30.79	1496.185	1.001	0.273		1.85	1.55	YES	12.7
42	Total-pentadiioxins	355.8546	30.66	3363.261	1.001	0.613		1.86	1.55	YES	20.3
42	Total-pentadiioxins	355.8546	30.57	1173.392	1.001	0.214		0.72	1.55	YES	9.6
42	Total-pentadiioxins	355.8546	30.42	3186.860	1.001	0.581		1.87	1.55	YES	21.9
43	Total-hexadiioxins	389.8157	37.00	1524.630	0.937	0.295		0.74	1.24	YES	6.8
14	123678-HxCDD	389.8157	36.82	11985.095	0.929	2.224	2.224	1.39	1.24	NO	64.1
13	123478-HxCDD	389.8157	36.68	3465.438	0.978	0.677	0.677	1.09	1.24	NO	18.0
43	Total-hexadiioxins	389.8157	35.73	39231.332	0.937	7.589		1.23	1.24	NO	121.0
43	Total-hexadiioxins	389.8157	35.33	6458.298	0.937	1.249		1.39	1.24	NO	36.7
43	Total-hexadiioxins	389.8157	34.52	31707.356	0.937	6.134		1.28	1.24	NO	163.5
15	123789-HxCDD	389.8157	37.24	7272.713	0.904	1.458	1.325	1.01	1.24	YES	33.3
16	1234678-HpCDD	423.7766	41.59	256446.883	1.029	55.030	55.030	1.05	1.05	NO	482.9
44	Total-heptadiioxins	423.7766	40.31	257759.766	1.029	55.312		1.01	1.05	NO	545.5
17	OCDD	457.7377	47.59	1787325.313	1.011	488.345	488...	0.87	0.89	NO	3135.1

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TotalTEQ,Furans,Dioxins

35	Total-tetrafurans	303.9016	24.93	1915.613	0.921	0.190	1.10	0.77	YES	8.2	
35	Total-tetrafurans	303.9016	24.51	2102.093	0.921	0.209	0.74	0.77	NO	9.5	
35	Total-tetrafurans	303.9016	24.36	895.178	0.921	0.089	0.47	0.77	YES	3.0	
35	Total-tetrafurans	303.9016	24.27	3480.502	0.921	0.346	0.88	0.77	NO	18.7	
35	Total-tetrafurans	303.9016	24.12	973.735	0.921	0.097	0.48	0.77	YES	5.2	
35	Total-tetrafurans	303.9016	24.03	4294.579	0.921	0.427	0.68	0.77	NO	10.5	
35	Total-tetrafurans	303.9016	23.78	1630.399	0.921	0.162	0.60	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	23.60	16035.477	0.921	1.593	0.70	0.77	NO	63.3	
35	Total-tetrafurans	303.9016	23.05	1149.634	0.921	0.114	0.66	0.77	NO	5.9	
35	Total-tetrafurans	303.9016	22.78	1673.538	0.921	0.166	0.65	0.77	YES	6.4	
40	Total-Furans	303.9016	28.39	448.213	1.065	0.039	0.58	0.77	YES	2.4	
35	Total-tetrafurans	303.9016	26.51	2574.908	0.921	0.256	0.89	0.77	YES	8.2	
35	Total-tetrafurans	303.9016	26.41	1002.376	0.921	0.100	0.45	0.77	YES	3.1	
1	2378-TCDF	303.9016	26.29	2141.291	0.921	0.213	0.190	0.64	0.77	YES	9.3
35	Total-tetrafurans	303.9016	26.09	1104.713	0.921	0.110	0.49	0.77	YES	3.7	
35	Total-tetrafurans	303.9016	26.02	529.887	0.921	0.053	0.52	0.77	YES	2.8	
35	Total-tetrafurans	303.9016	25.78	628.332	0.921	0.062	0.64	0.77	YES	2.7	
35	Total-tetrafurans	303.9016	25.60	1077.848	0.921	0.107	1.56	0.77	YES	10.1	
35	Total-tetrafurans	303.9016	25.38	1427.620	0.921	0.142	0.97	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	25.18	5027.713	0.921	0.500	0.80	0.77	NO	25.1	
35	Total-tetrafurans	303.9016	25.06	1558.419	0.921	0.155	1.13	0.77	YES	6.6	
37	Total-pentafurans	339.8597	29.34	13339.177	0.927	1.678	1.46	1.55	NO	53.9	
37	Total-pentafurans	339.8597	29.17	2103.495	0.927	0.265	2.15	1.55	YES	9.0	
3	23478-PeCDF	339.8597	31.77	2828.810	0.943	0.357	0.321	1.21	1.55	YES	16.6
37	Total-pentafurans	339.8597	30.15	468.582	0.927	0.059	0.63	1.55	YES	6.0	
37	Total-pentafurans	339.8597	30.06	3486.773	0.927	0.439	1.30	1.55	YES	19.6	
6	123678-HxCDF	373.8208	35.62	2651.055	1.056	0.364	0.364	1.16	1.24	NO	9.5
4	123478-HxCDF	373.8208	35.46	6302.308	1.101	0.894	0.894	1.09	1.24	NO	21.4
38	Total-hexafurans	373.8208	35.29	1300.443	1.062	0.194	0.70	1.24	YES	3.6	
38	Total-hexafurans	373.8208	34.81	38387.260	1.062	5.720	1.23	1.24	NO	133.0	
38	Total-hexafurans	373.8208	34.30	805.092	1.062	0.120	2.34	1.24	YES	4.5	
38	Total-hexafurans	373.8208	33.94	39083.279	1.062	5.824	1.26	1.24	NO	133.3	
38	Total-hexafurans	373.8208	33.73	13112.178	1.062	1.954	1.32	1.24	NO	46.8	
7	123789-HxCDF	373.8208	37.63	1015.715	1.017	0.169	0.122	2.11	1.24	YES	3.6
5	234678-HxCDF	373.8208	36.53	4546.022	1.073	0.697	0.603	0.92	1.24	YES	10.3
39	Total-heptafurans	407.7818	39.91	1202.947	1.231	0.216	1.03	1.05	NO	4.9	
8	1234678-HpCDF	407.7818	39.75	93831.344	1.238	14.925	14.925	1.00	1.05	NO	235.3
9	1234789-HpCDF	407.7818	42.49	3495.124	1.224	0.720	0.720	0.98	1.05	NO	10.3
39	Total-heptafurans	407.7818	40.55	156584.485	1.231	28.122	0.98	1.05	NO	373.8	
39	Total-heptafurans	407.7818	40.29	1091.331	1.231	0.196	0.43	1.05	YES	3.9	
10	OCDF	441.7428	47.87	156975.461	1.162	37.324	37.324	0.86	0.89	NO	366.1
36	Total-penta1	339.8597	27.69	38586.408		4.910	1.57	1.55	NO	614.7	
41	Total-tetradioxins	319.8965	26.08	684.970	1.106	0.084	1.68	0.77	YES	7.2	
41	Total-tetradioxins	319.8965	25.53	2721.223	1.106	0.336	0.80	0.77	NO	16.8	
41	Total-tetradioxins	319.8965	25.24	997.566	1.106	0.123	0.75	0.77	NO	6.1	
41	Total-tetradioxins	319.8965	25.05	2356.588	1.106	0.291	0.60	0.77	YES	13.1	
41	Total-tetradioxins	319.8965	24.54	831.634	1.106	0.103	0.97	0.77	YES	5.4	
41	Total-tetradioxins	319.8965	24.32	3743.929	1.106	0.462	0.71	0.77	NO	23.9	
41	Total-tetradioxins	319.8965	24.05	5376.660	1.106	0.663	0.75	0.77	NO	36.2	

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TotalTEQ,Furans,Dioxins

45	Total-Dioxins	319.8965	27.78	809.802	0.994	0.111		1.29	0.77	YES	6.5
41	Total-tetradoxins	319.8965	27.50	1016.558	1.106	0.125		0.80	0.77	NO	6.6
11	2378-TCDD	319.8965	26.90	914.310	1.106	0.113	0.076	0.41	0.77	YES	5.5
41	Total-tetradoxins	319.8965	26.53	1081.632	1.106	0.133		0.42	0.77	YES	3.8
42	Total-pentadoxins	355.8546	29.82	1210.125	1.001	0.221		1.98	1.55	YES	7.1
42	Total-pentadoxins	355.8546	29.26	26789.530	1.001	4.886		1.56	1.55	NO	111.9
12	12378-PeCDD	355.8546	32.02	2434.595	1.001	0.444	0.444	1.33	1.55	NO	16.1
42	Total-pentadoxins	355.8546	31.35	1202.277	1.001	0.219		1.41	1.55	NO	7.6
42	Total-pentadoxins	355.8546	31.05	509.529	1.001	0.093		0.40	1.55	YES	2.6
42	Total-pentadoxins	355.8546	30.79	1496.185	1.001	0.273		1.85	1.55	YES	12.7
42	Total-pentadoxins	355.8546	30.66	3363.261	1.001	0.613		1.86	1.55	YES	20.3
42	Total-pentadoxins	355.8546	30.57	1173.392	1.001	0.214		0.72	1.55	YES	9.6
42	Total-pentadoxins	355.8546	30.42	3186.860	1.001	0.581		1.87	1.55	YES	21.9
43	Total-hexadoxins	389.8157	37.00	1524.630	0.937	0.295		0.74	1.24	YES	6.8
14	123678-HxCDD	389.8157	36.82	11985.095	0.929	2.224	2.224	1.39	1.24	NO	64.1
13	123478-HxCDD	389.8157	36.68	3465.438	0.978	0.677	0.677	1.09	1.24	NO	18.0
43	Total-hexadoxins	389.8157	35.73	39231.332	0.937	7.589		1.23	1.24	NO	121.0
43	Total-hexadoxins	389.8157	35.33	6458.298	0.937	1.249		1.39	1.24	NO	36.7
43	Total-hexadoxins	389.8157	34.52	31707.356	0.937	6.134		1.28	1.24	NO	163.5
15	123789-HxCDD	389.8157	37.24	7272.713	0.904	1.458	1.325	1.01	1.24	YES	33.3
16	1234678-HpCDD	423.7766	41.59	256446.883	1.029	55.030	55.030	1.05	1.05	NO	482.9
44	Total-heptadoxins	423.7766	40.31	257759.766	1.029	55.312		1.01	1.05	NO	545.5
17	OCDD	457.7377	47.59	1787325.313	1.011	488.345	488....	0.87	0.89	NO	3135.1

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PFK1

Name	Time	RT	Abundance	Area	Area%
48 FUNCTION1 PFK	330.9792	23.67	0.000		1.9
48 FUNCTION1 PFK	330.9792	23.58	0.000		4.3
48 FUNCTION1 PFK	330.9792	23.36	0.000		14.5
48 FUNCTION1 PFK	330.9792	23.18	0.000		16.2
48 FUNCTION1 PFK	330.9792	23.03	0.000		20.0
48 FUNCTION1 PFK	330.9792	22.97	0.000		22.8
48 FUNCTION1 PFK	330.9792	22.69	0.000		30.2
48 FUNCTION1 PFK	330.9792	22.63	0.000		30.6
48 FUNCTION1 PFK	330.9792	22.42	0.000		37.5
48 FUNCTION1 PFK	330.9792	22.09	0.000		46.4
48 FUNCTION1 PFK	330.9792	21.86	0.000		60.6
48 FUNCTION1 PFK	330.9792	21.64	0.000		60.6
48 FUNCTION1 PFK	330.9792	21.55	0.000		61.5
48 FUNCTION1 PFK	330.9792	21.34	0.000		65.9
48 FUNCTION1 PFK	330.9792	21.28	0.000		67.9
48 FUNCTION1 PFK	330.9792	21.12	0.000		72.1
48 FUNCTION1 PFK	330.9792	26.74	0.000		1.6
48 FUNCTION1 PFK	330.9792	26.66	0.000		1.8
48 FUNCTION1 PFK	330.9792	26.62	0.000		1.3
48 FUNCTION1 PFK	330.9792	26.54	0.000		1.7
48 FUNCTION1 PFK	330.9792	26.39	0.000		0.9
48 FUNCTION1 PFK	330.9792	26.24	0.000		0.3
48 FUNCTION1 PFK	330.9792	25.85	0.000		0.8
48 FUNCTION1 PFK	330.9792	25.75	0.000		1.0
48 FUNCTION1 PFK	330.9792	25.65	0.000		0.7
48 FUNCTION1 PFK	330.9792	25.41	0.000		1.3
48 FUNCTION1 PFK	330.9792	24.84	0.000		1.5
48 FUNCTION1 PFK	330.9792	24.79	0.000		1.4
48 FUNCTION1 PFK	330.9792	24.70	0.000		1.7
48 FUNCTION1 PFK	330.9792	24.52	0.000		9.1
48 FUNCTION1 PFK	330.9792	24.12	0.000		0.5
48 FUNCTION1 PFK	330.9792	23.81	0.000		0.4
48 FUNCTION1 PFK	330.9792	28.21	0.000		1.3
48 FUNCTION1 PFK	330.9792	28.04	0.000		0.5
48 FUNCTION1 PFK	330.9792	27.84	0.000		0.8
48 FUNCTION1 PFK	330.9792	27.72	0.000		1.8
48 FUNCTION1 PFK	330.9792	27.54	0.000		1.1
48 FUNCTION1 PFK	330.9792	27.20	0.000		0.6
48 FUNCTION1 PFK	330.9792	26.90	0.000		2.0
48 FUNCTION1 PFK	330.9792	26.84	0.000		2.0

PFK2

Name	Time	RT	Abundance	Area	Area%

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

PFK3

50 FUNCTION3 PFK	380.9760	33.63	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	33.57	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	33.47	0.000	0.000	1.9
50 FUNCTION3 PFK	380.9760	33.36	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	33.27	0.000	0.000	1.6
50 FUNCTION3 PFK	380.9760	33.21	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	35.35	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	35.27	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	35.13	0.000	0.000	0.5
50 FUNCTION3 PFK	380.9760	35.10	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	35.02	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	34.94	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	34.76	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	34.50	0.000	0.000	2.5
50 FUNCTION3 PFK	380.9760	34.40	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	34.33	0.000	0.000	1.7
50 FUNCTION3 PFK	380.9760	34.26	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	34.14	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	34.05	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	33.94	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	33.79	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	33.71	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	36.34	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	36.30	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	36.23	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	36.19	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	36.10	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	36.06	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	35.88	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	35.82	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	35.80	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	35.74	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	35.66	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	35.59	0.000	0.000	1.7
50 FUNCTION3 PFK	380.9760	35.55	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	35.51	0.000	0.000	2.6
50 FUNCTION3 PFK	380.9760	35.45	0.000	0.000	2.1
50 FUNCTION3 PFK	380.9760	35.40	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	38.26	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	38.20	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	37.79	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	37.74	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	37.68	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	37.59	0.000	0.000	3.1
50 FUNCTION3 PFK	380.9760	37.40	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	37.38	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	37.34	0.000	0.000	1.7
50 FUNCTION3 PFK	380.9760	37.25	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	37.05	0.000	0.000	0.5

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

PFK3

Name	Area	Height	Area%	Height%	Area%	Height%
50 FUNCTION3 PFK	380.9760	36.94	0.000	0.000		0.8
50 FUNCTION3 PFK	380.9760	36.90	0.000	0.000		1.9
50 FUNCTION3 PFK	380.9760	36.80	0.000	0.000		1.9
50 FUNCTION3 PFK	380.9760	36.68	0.000	0.000		1.3
50 FUNCTION3 PFK	380.9760	36.49	0.000	0.000		1.0
50 FUNCTION3 PFK	380.9760	38.51	0.000	0.000		1.7
50 FUNCTION3 PFK	380.9760	38.35	0.000	0.000		0.9
50 FUNCTION3 PFK	380.9760	38.31	0.000	0.000		1.0

PFK4

Name	Area	Height	Area%	Height%	Area%	Height%

PFK5

Name	Area	Height	Area%	Height%	Area%	Height%
52 FUNCTION5 PFK	480.9696	48.66	0.000			1.5
52 FUNCTION5 PFK	480.9696	48.47	0.000			1.5
52 FUNCTION5 PFK	480.9696	48.14	0.000			1.2
52 FUNCTION5 PFK	480.9696	47.86	0.000			0.6
52 FUNCTION5 PFK	480.9696	47.41	0.000			1.3
52 FUNCTION5 PFK	480.9696	47.37	0.000			0.8
52 FUNCTION5 PFK	480.9696	47.22	0.000			0.5
52 FUNCTION5 PFK	480.9696	47.17	0.000			1.4
52 FUNCTION5 PFK	480.9696	46.65	0.000			1.5
52 FUNCTION5 PFK	480.9696	45.16	0.000			0.7
52 FUNCTION5 PFK	480.9696	45.10	0.000			1.5
52 FUNCTION5 PFK	480.9696	49.11	0.000			1.2
52 FUNCTION5 PFK	480.9696	48.82	0.000			1.4
52 FUNCTION5 PFK	480.9696	48.79	0.000			1.0

ETHERS1

Name	Area	Height	Area%	Height%	Area%	Height%
53 FUNCTION1 HXCD...	375.8364	26.59	0.000	0.000		6.7
53 FUNCTION1 HXCD...	375.8364	24.12	0.000	0.000		8.5

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

ETHERS2

Name	Time	RT	Abn Resp	REEM	pg	EMPC	IF Ret	IF Ret	IF Ret
54 FUNCTION1 HPCD...	409.7974	24.15	0.000	0.000					2.7
54 FUNCTION1 HPCD...	409.7974	23.84	0.000	0.000					2.5
54 FUNCTION1 HPCD...	409.7974	23.54	0.000	0.000					1.0
54 FUNCTION1 HPCD...	409.7974	23.21	0.000	0.000					1.6
54 FUNCTION1 HPCD...	409.7974	22.90	0.000	0.000					3.1
54 FUNCTION1 HPCD...	409.7974	22.79	0.000	0.000					1.4
54 FUNCTION1 HPCD...	409.7974	22.40	0.000	0.000					2.0
54 FUNCTION1 HPCD...	409.7974	21.37	0.000	0.000					3.1
54 FUNCTION1 HPCD...	409.7974	21.21	0.000	0.000					1.8
54 FUNCTION1 HPCD...	409.7974	28.29	0.000	0.000					1.1
54 FUNCTION1 HPCD...	409.7974	27.89	0.000	0.000					1.4
54 FUNCTION1 HPCD...	409.7974	26.50	0.000	0.000					2.9
54 FUNCTION1 HPCD...	409.7974	26.20	0.000	0.000					2.0
54 FUNCTION1 HPCD...	409.7974	25.85	0.000	0.000					5.1
54 FUNCTION1 HPCD...	409.7974	25.09	0.000	0.000					1.6

ETHERS3

Name	Time	RT	Abn Resp	REEM	pg	EMPC	IF Ret	IF Ret	IF Ret
55 FUNCTION2 HPCD...	409.7974	32.39	0.000	0.000					1.9
55 FUNCTION2 HPCD...	409.7974	31.79	0.000	0.000					1.7
55 FUNCTION2 HPCD...	409.7974	30.40	0.000	0.000					1.6
55 FUNCTION2 HPCD...	409.7974	30.22	0.000	0.000					2.8
55 FUNCTION2 HPCD...	409.7974	30.14	0.000	0.000					1.7
55 FUNCTION2 HPCD...	409.7974	30.02	0.000	0.000					2.7
55 FUNCTION2 HPCD...	409.7974	29.16	0.000	0.000					1.7

ETHERS4

Name	Time	RT	Abn Resp	REEM	pg	EMPC	IF Ret	IF Ret	IF Ret

ETHERS5

Name	Time	RT	Abn Resp	REEM	pg	EMPC	IF Ret	IF Ret	IF Ret
57 FUNCTION4 NCDPE	479.7165	39.34	0.000	0.000					156.2

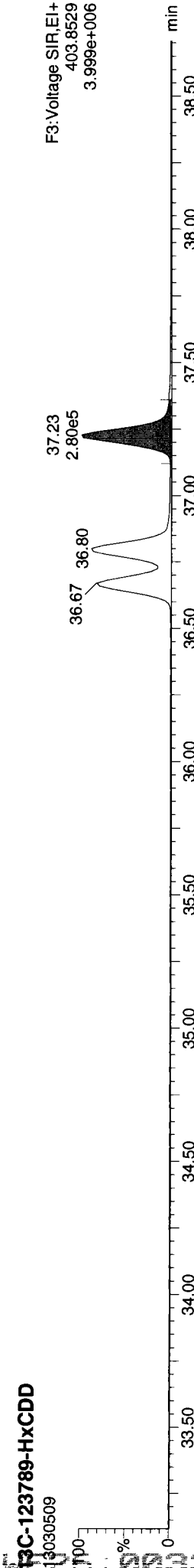
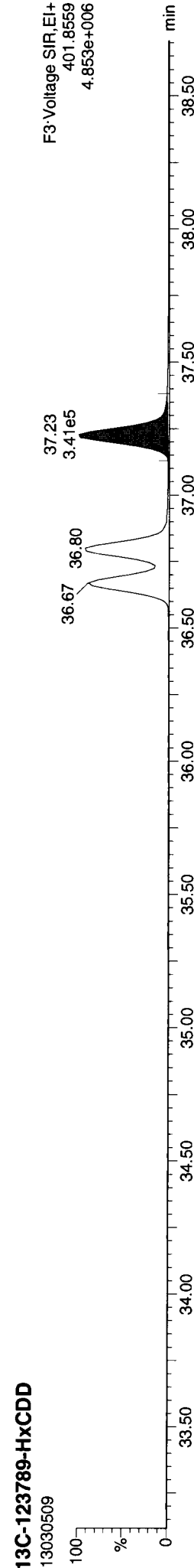
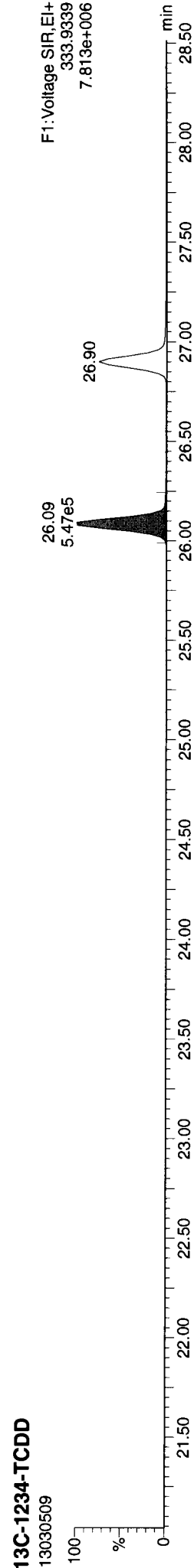
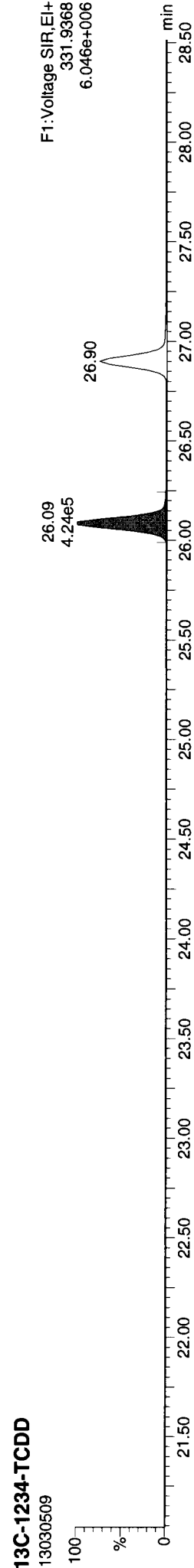
ETHERS6

Name	Time	RT	Abn Resp	REEM	pg	EMPC	IF Ret	IF Ret	IF Ret

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DiOxin\130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

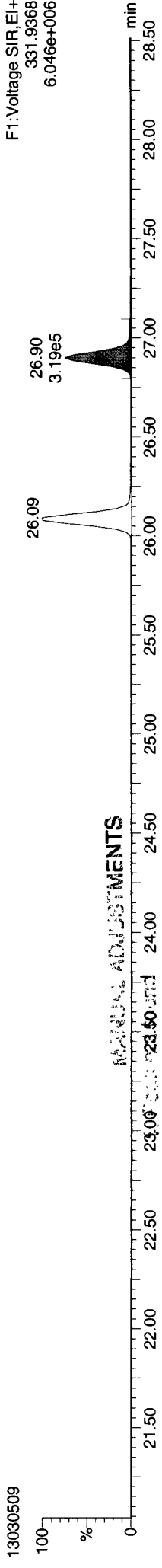




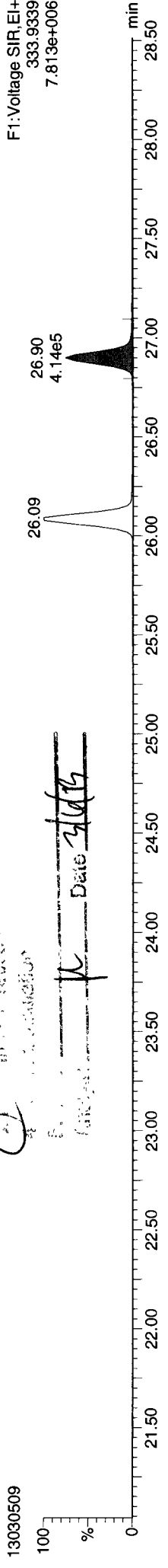
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

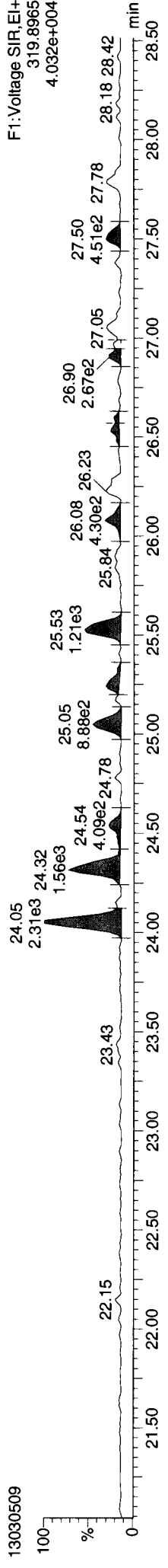
13C-2378-TCDD  
13030509



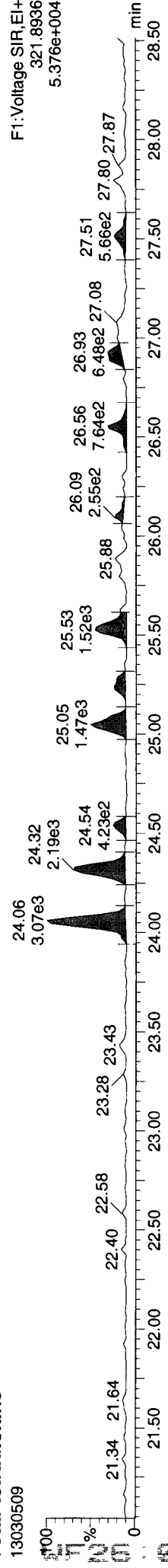
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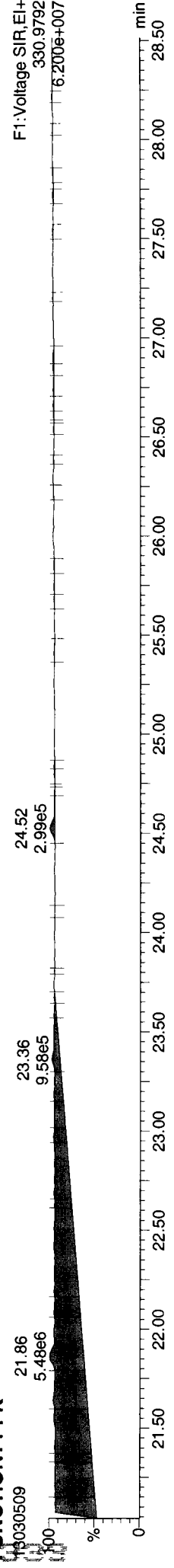
Total-tetradoxins  
13030509



Total-tetradoxins  
13030509



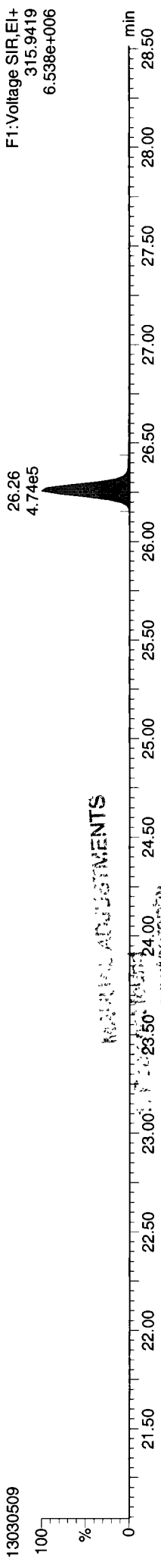
FUNCTION1 PFK  
13030509



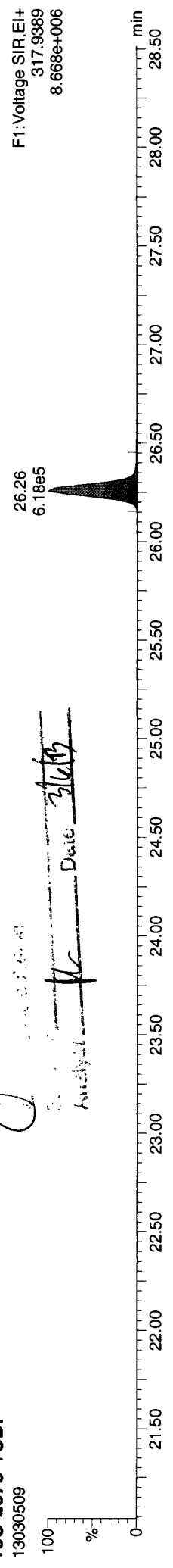
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 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

**ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk**

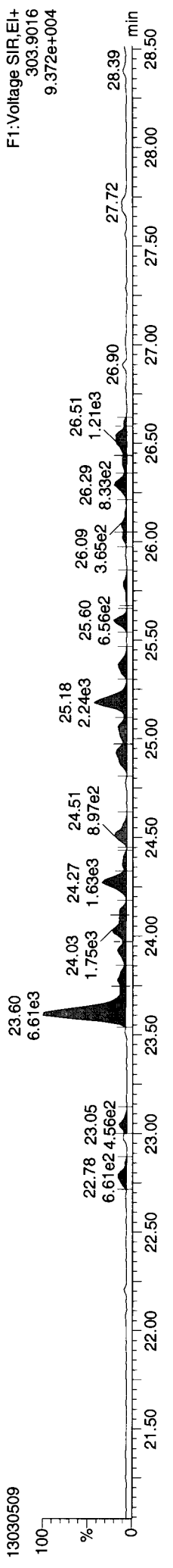
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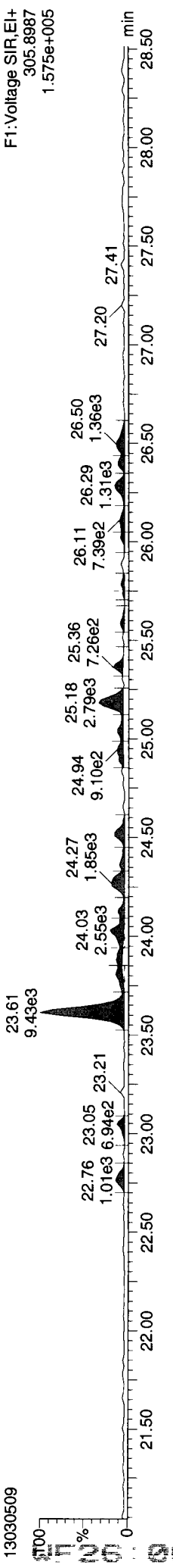
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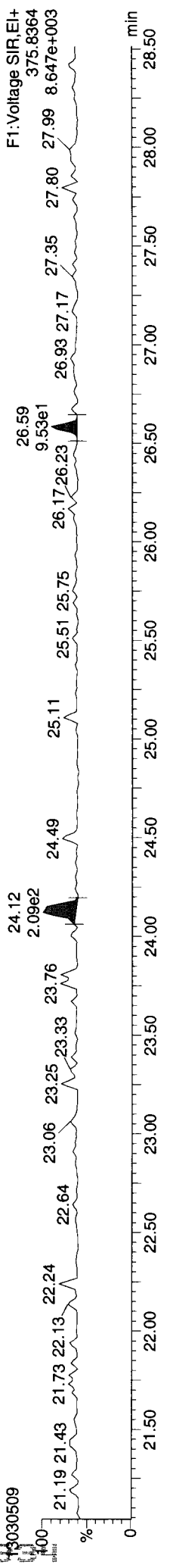
**Total-tetrafurans**



**Total-tetrafurans**

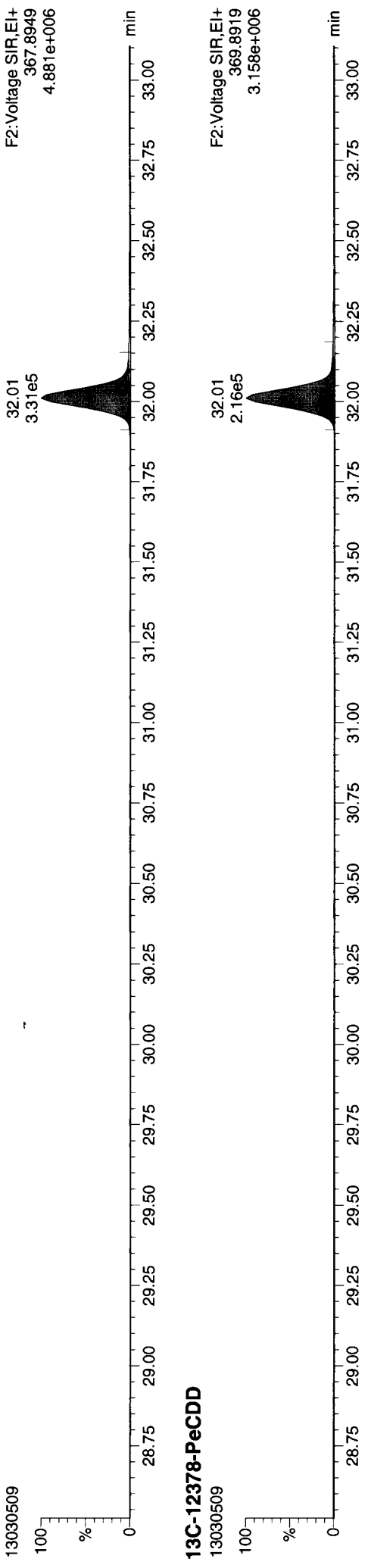


**FUNCTION1 HXCDPE**

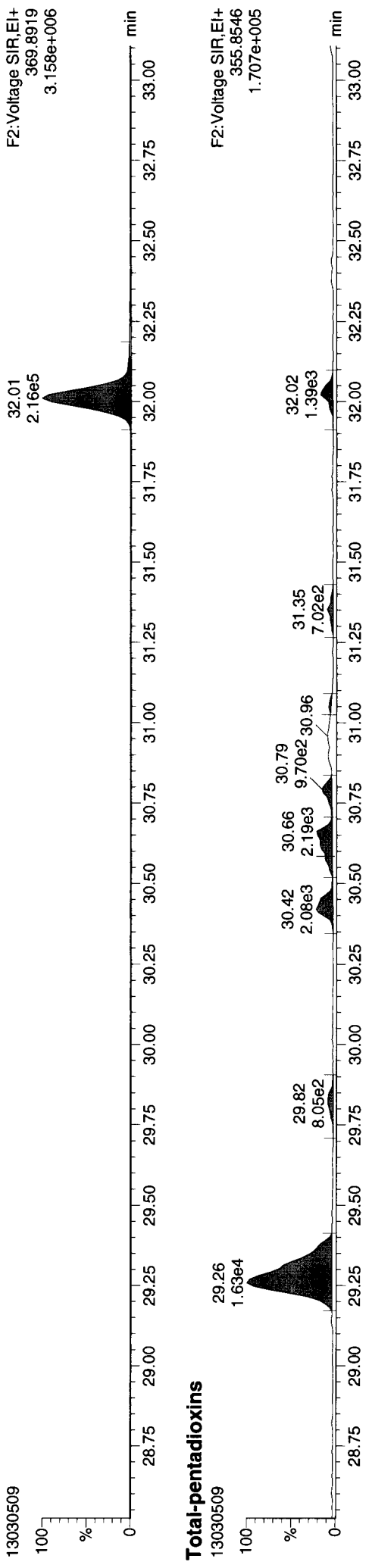


ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

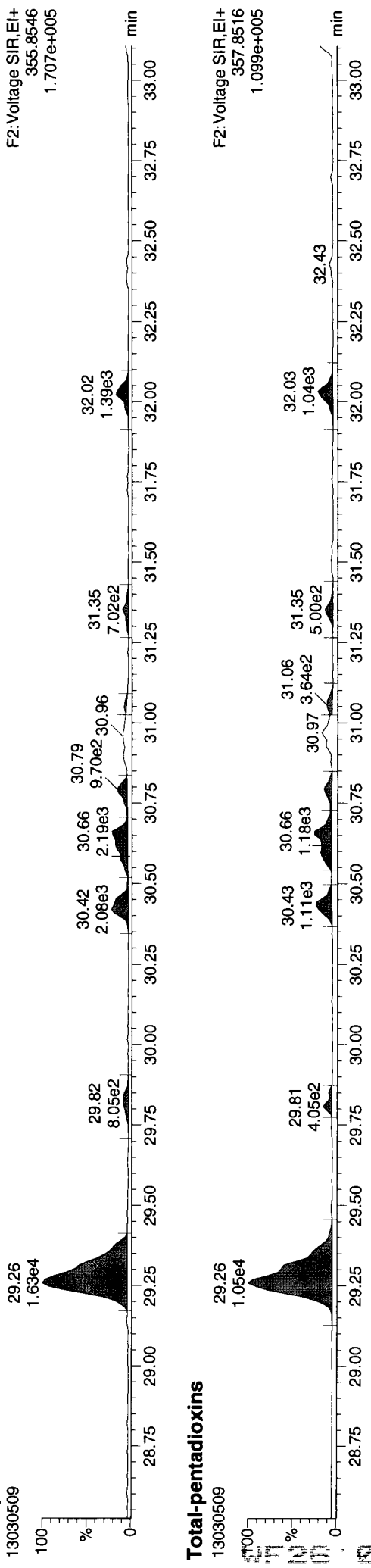
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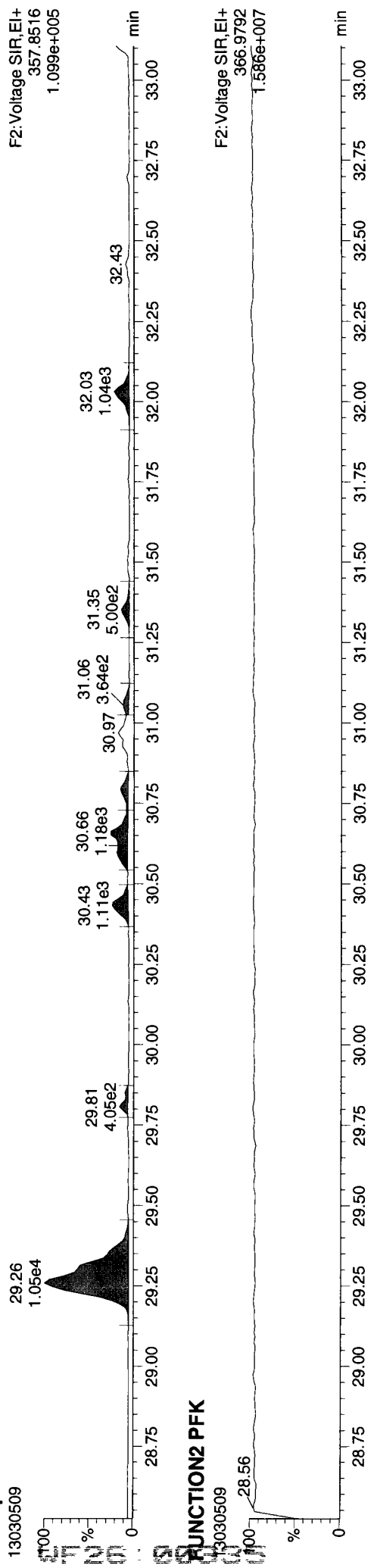
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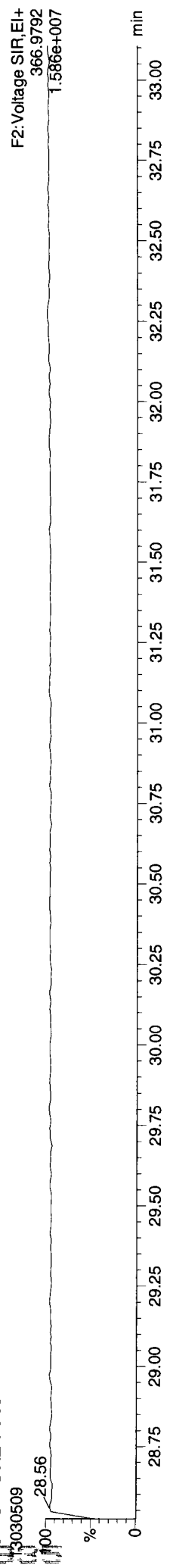
Total-pentadioxins



Total-pentadioxins



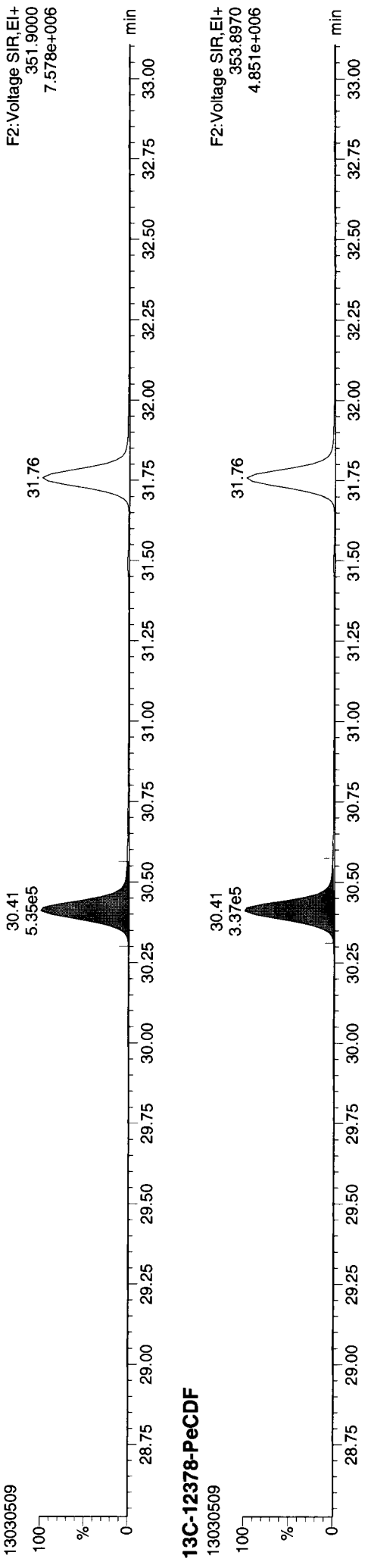
FUNCTION2 PFK



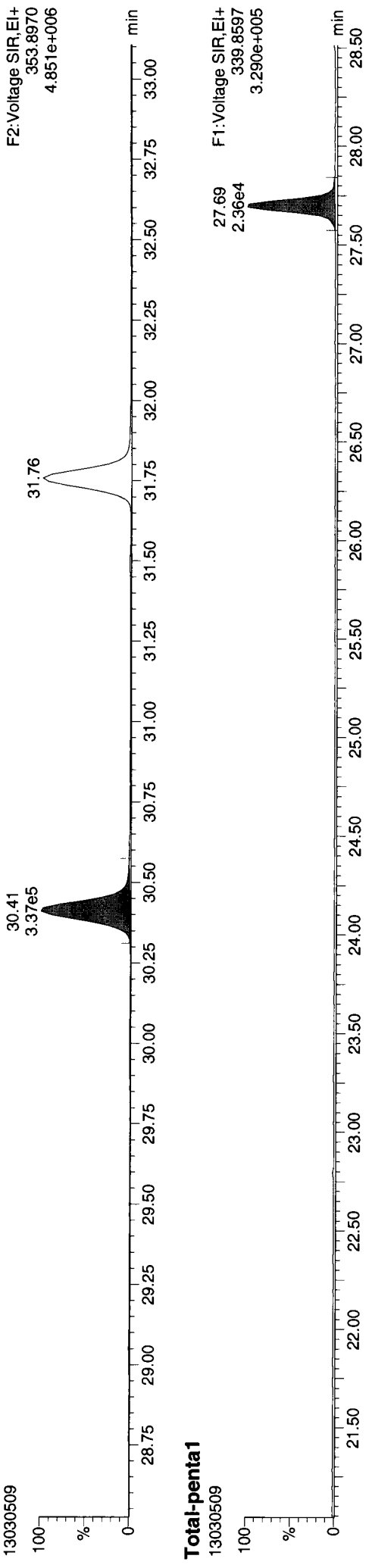
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 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

**ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk**

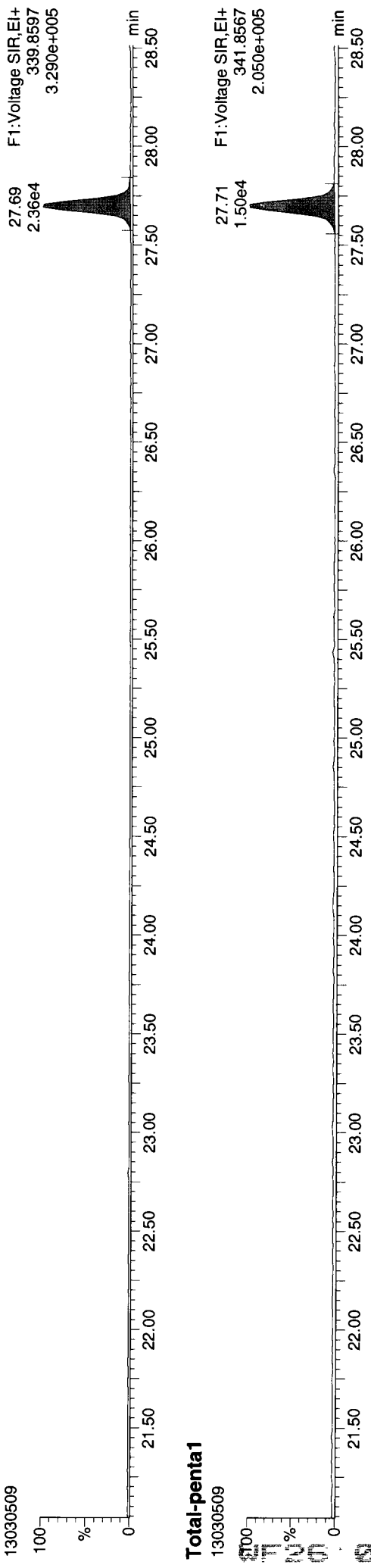
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13030509



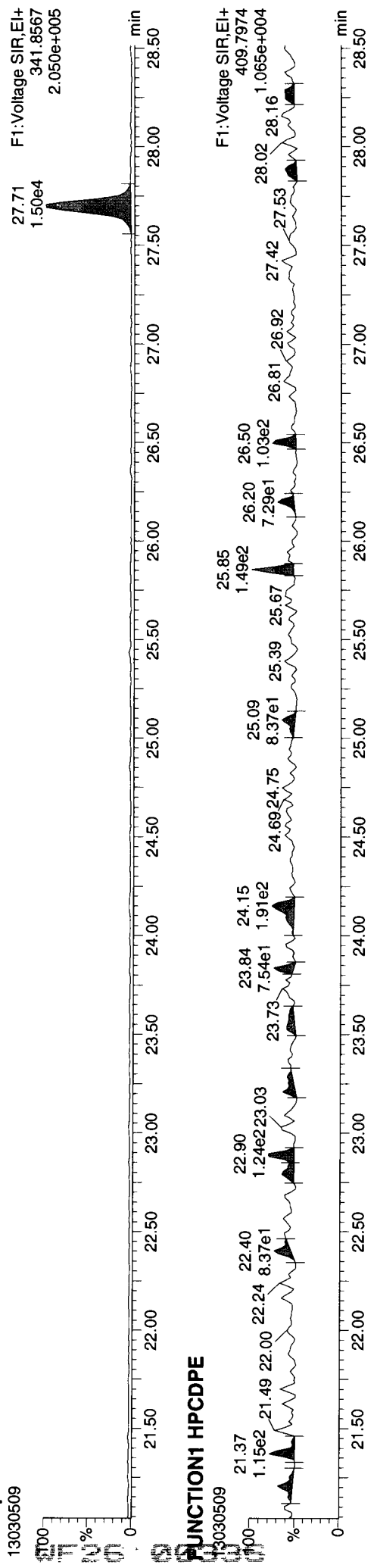
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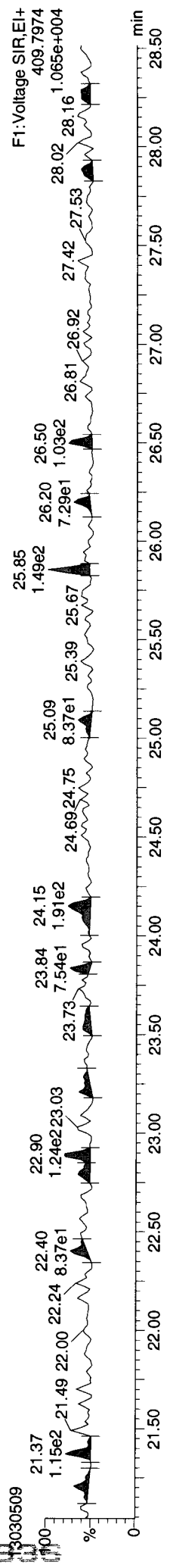
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**Total-penta 1**  
13030509



**FUNCTION1 HPCDPE**  
13030509

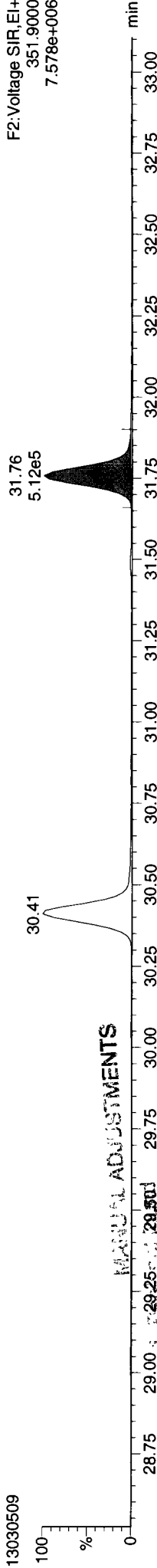


Quantify Sample Report MassLynx 4.1 SCN 714

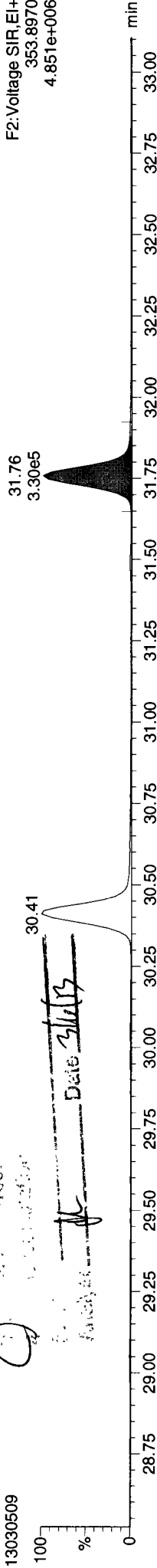
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Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

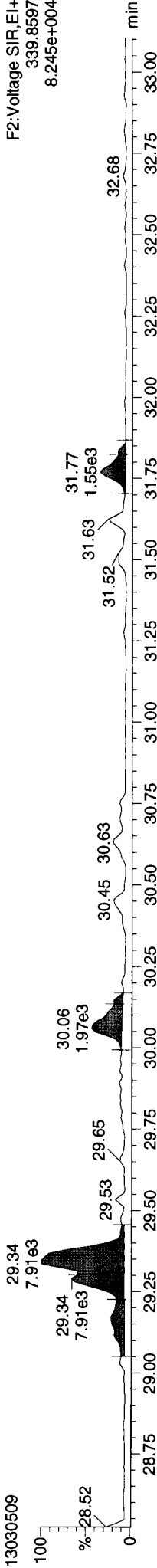
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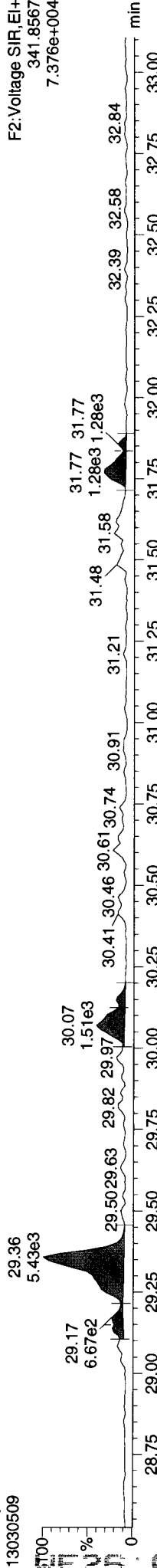
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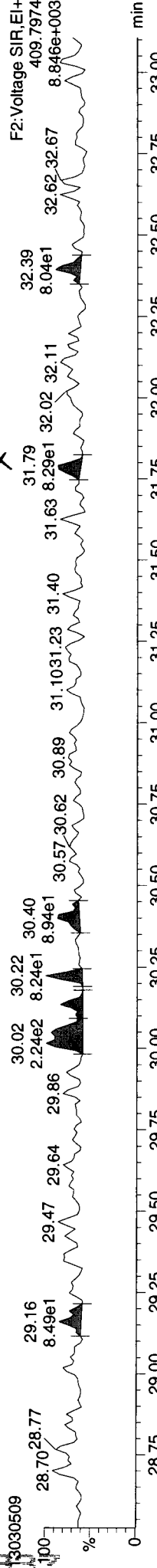
Total-pentafurans



Total-pentafurans

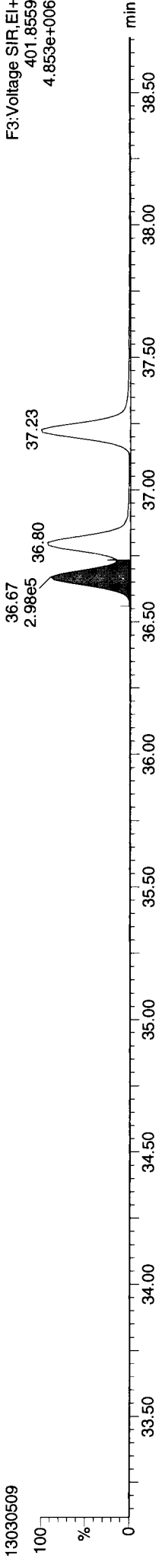


FUNCTION2 HPCDPE

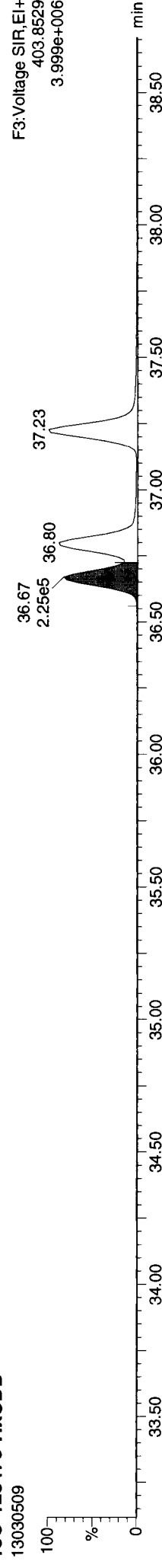


ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

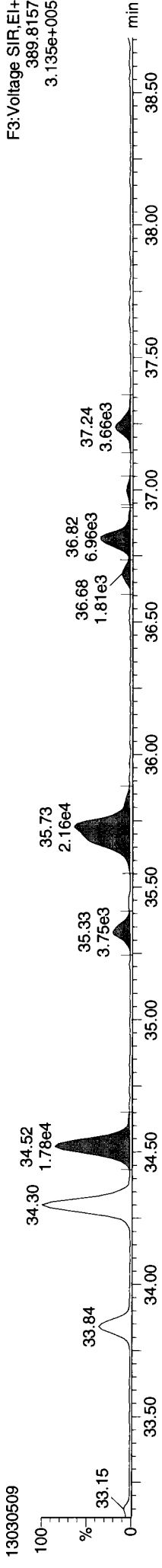
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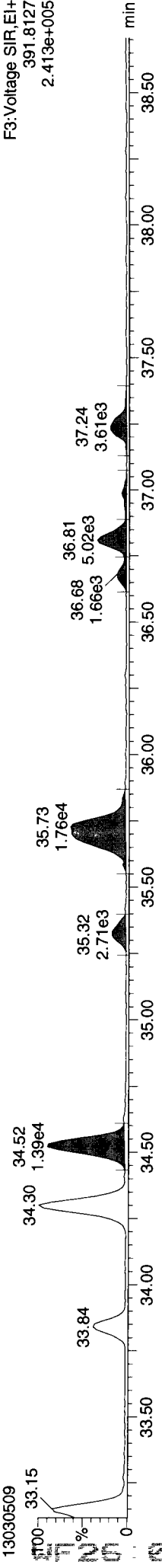
13C-123478-HxCDD



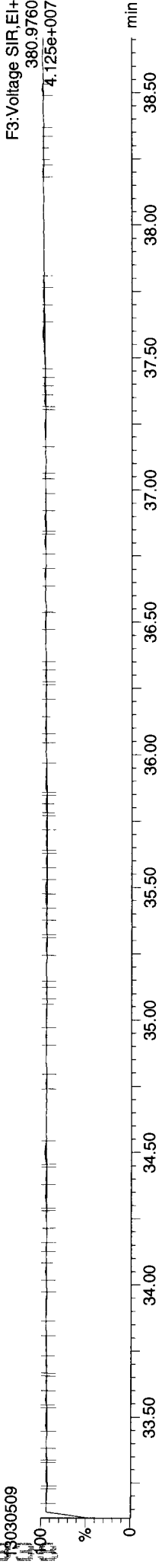
Total-hexadioxins



Total-hexadioxins



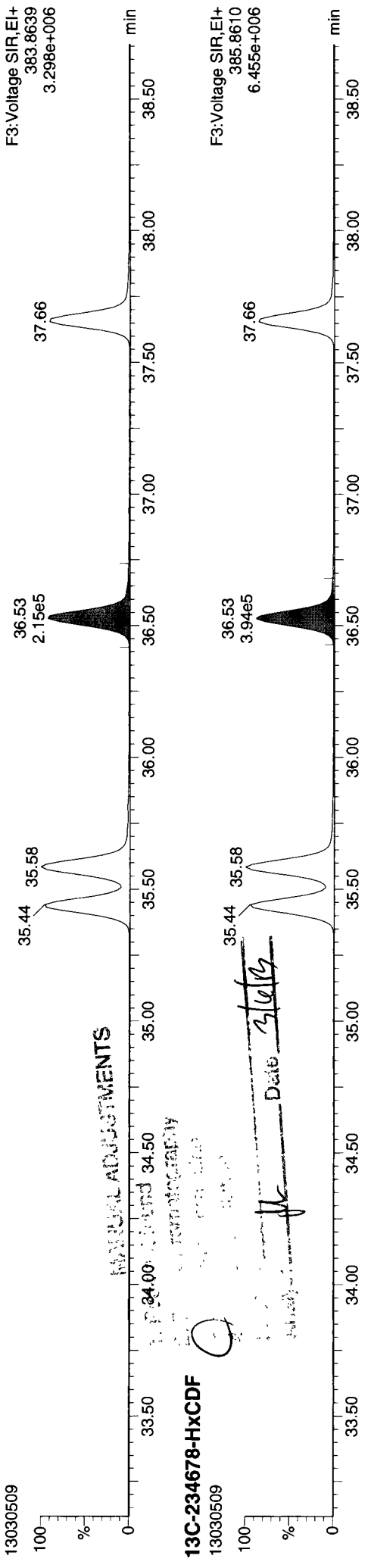
FUNCTION3 PFK



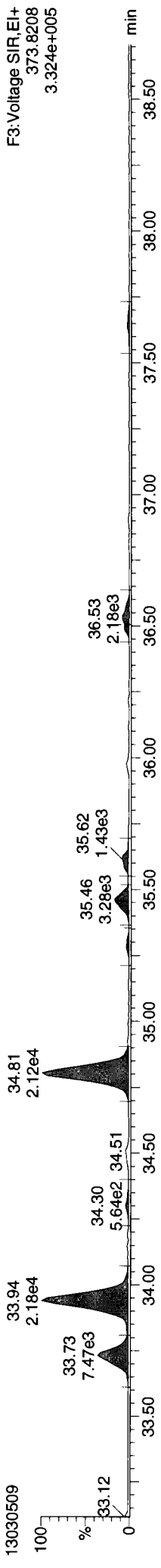
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\13030505\DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

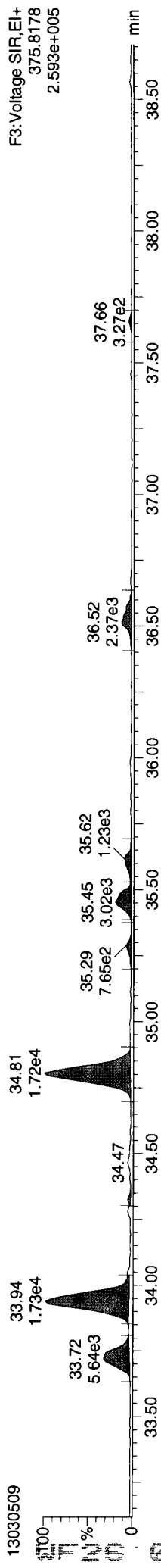
13C-234678-HxCDF



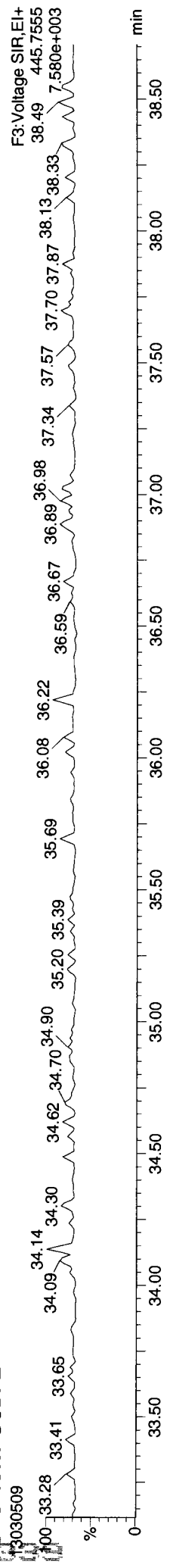
Total-hexafurans



Total-hexafurans



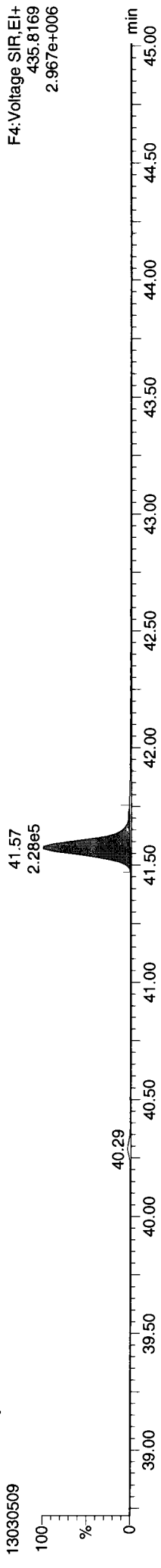
FUNCTION3 OCDPE



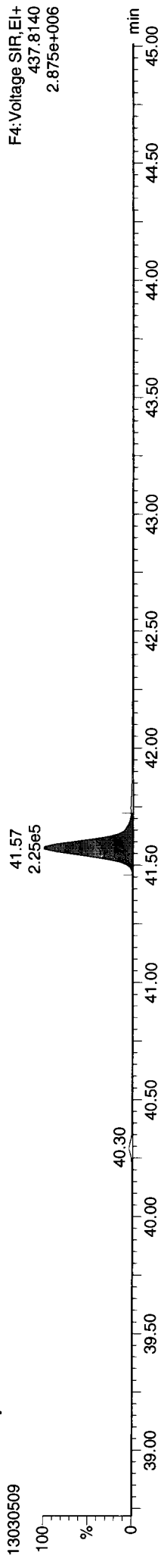
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

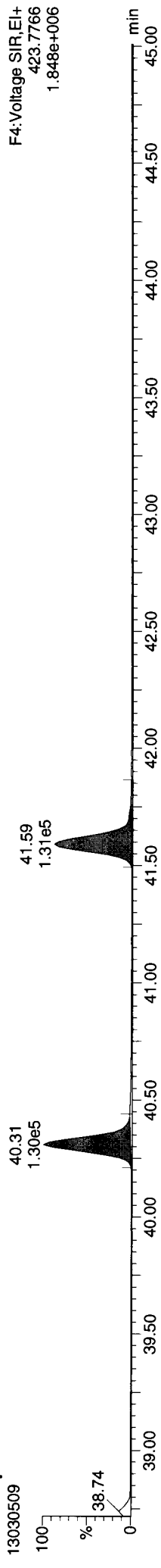
13C-1234678-HpCDD



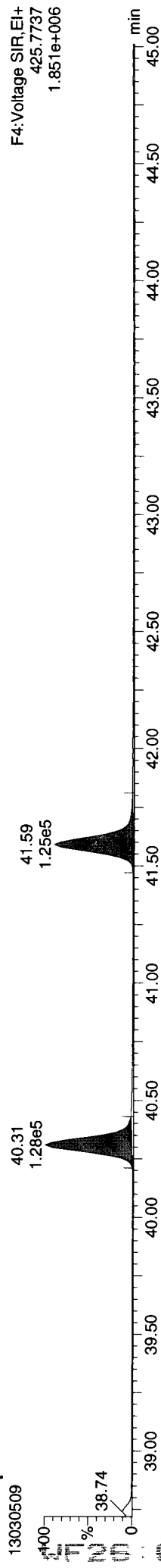
13C-1234678-HpCDD



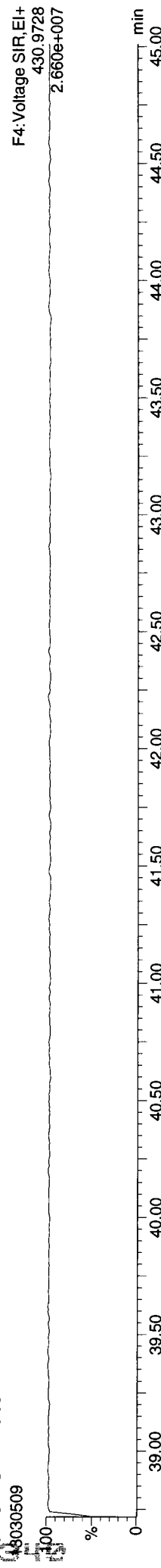
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



F4: Voltage SIR, EI+  
435.8169  
2.967e+006

F4: Voltage SIR, EI+  
437.8140  
2.875e+006

F4: Voltage SIR, EI+  
423.7766  
1.848e+006

F4: Voltage SIR, EI+  
425.7737  
1.851e+006

F4: Voltage SIR, EI+  
430.9728  
2.660e+007



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

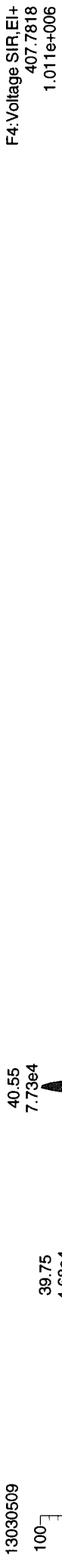
13C-1234678-HpCDF



13C-1234678-HpCDF



Total-heptafurans



Total-heptafurans



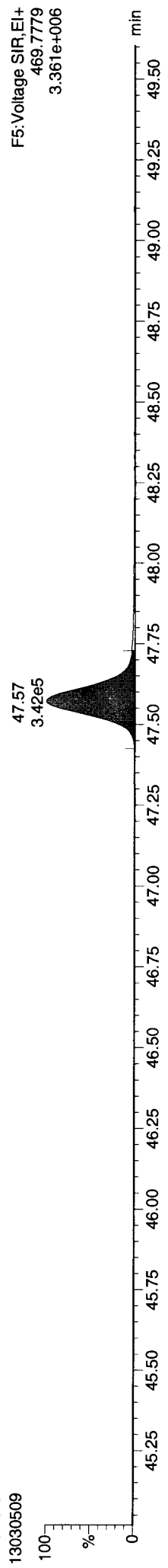
FUNCTION4 NCDPE



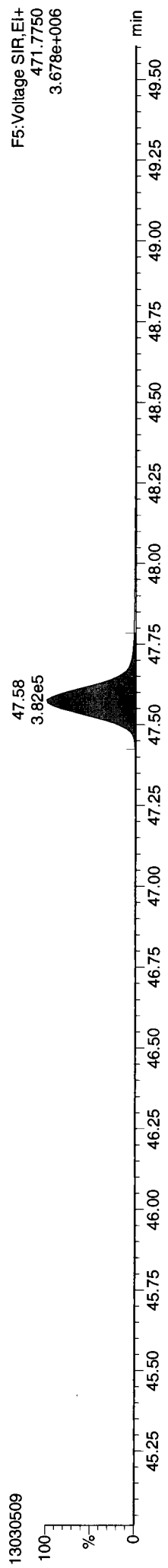
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk

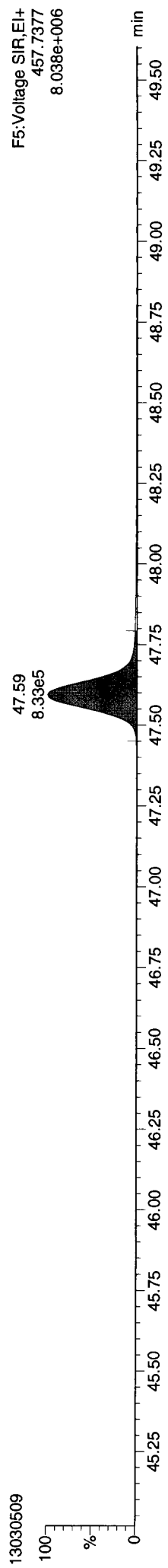
13C-OCDD  
13030509



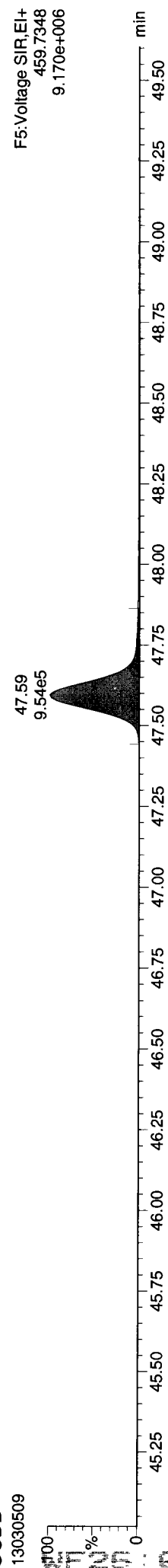
13C-OCDD  
13030509



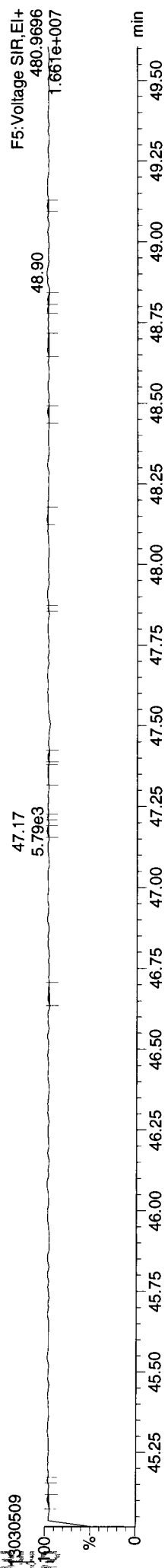
OCDD  
13030509



OCDD  
13030509



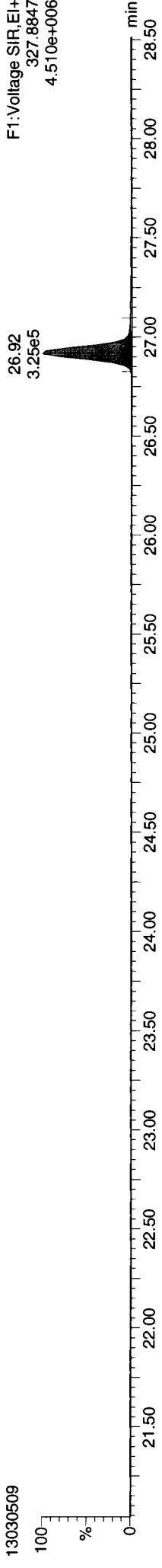
FUNCTION5 PFK  
13030509



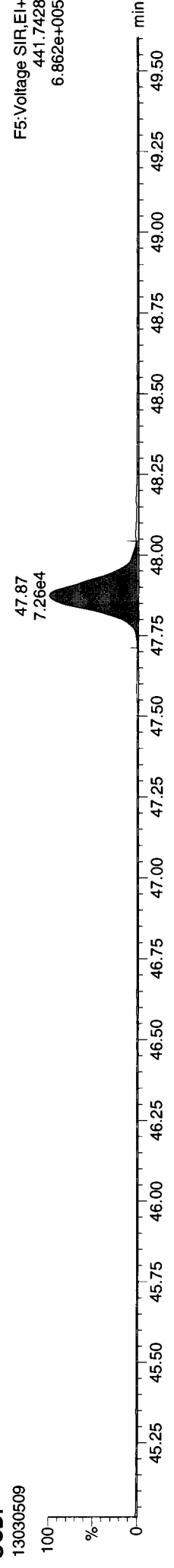
**Quantify Sample Report**      **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:40:17 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:47:28 Pacific Standard Time

**ID: WF26D, Name: 13030509, Date: 05-Mar-2013, Time: 18:37:58, Conditions: AUTOSPEC01, User: pk**

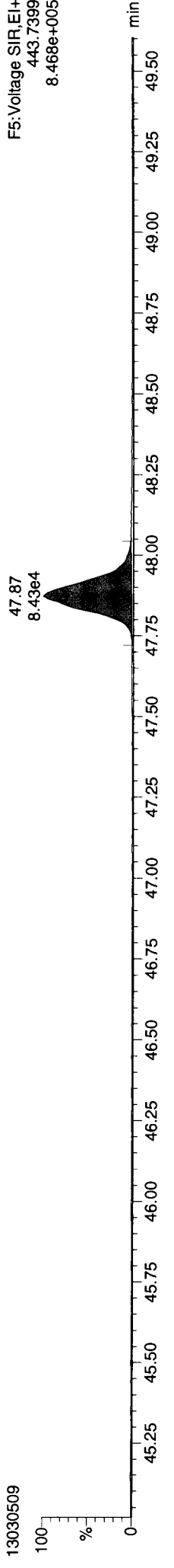
**37CL-2378-TCDD**



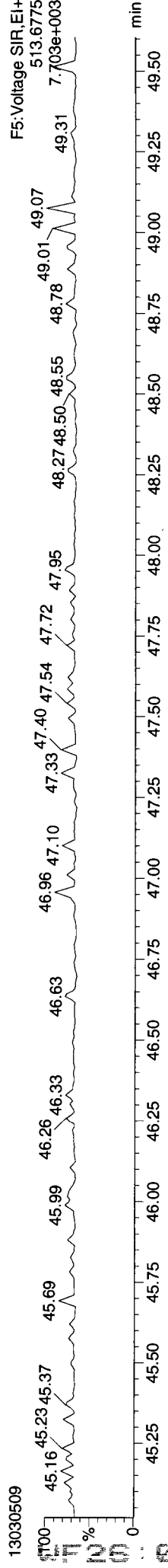
**OCDF**



**OCDF**



**FUNCTION5 DCDPE**



100  
50  
0

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26E  
 Lab.File ID: 13030510  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.93	0.126	0.0940	
12378-PeCDD	356/358	32.03	0.633		
123478-HxCDD	390/392	36.70	3.27		
123678-HxCDD	390/392	36.82	3.16		
123789-HxCDD	390/392	37.24	1.93		
1234678-HpCDD	424/426	41.60	88.5		
OCDD	458/460	47.60	630		
2378-TCDF	304/306	26.29	0.153	0.100	
12378-PeCDF	340/342	30.45	0.0955	0.0860	
23478-PeCDF	340/342	31.78	0.236		
123478-HxCDF	374/376	35.46	1.11		
234678-HxCDF	374/376	36.56	0.714		
123678-HxCDF	374/376	35.62	0.459		
123789-HxCDF	374/376	0.00			0.10
1234678-HpCDF	408/410	39.76	14.4		
1234789-HpCDF	408/410	42.50	0.791	0.711	
OCDF	442/444	47.88	34.1		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.



Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

PK	Name	FT	RT	Area	Int	Ratio	SN	NO	ENPC	PG					
34	13C-123789-HxCDD	37.227	0.000	3.25e5	2.61e5	1.000	1.249	1.240	2098.4	2196	2905	4.61e6	3.71e6	NO	100.000
35	Total-tetrafurans			1.11e4		0.921				2498		1.65e5			2.677
36	Total-penta1			2.18e4						760		3.03e5			4.658
37	Total-pentafurans			1.28e4		0.927				2584		1.76e5			2.684
38	Total-hexafurans			5.65e4		1.062				1353		7.79e5			15.986
39	Total-heptafurans			1.19e5		1.231				1558		1.60e6			42.141
40	Total-Furans			2.88e5		1.065				2498		3.66e6			102.318
41	Total-tetraoxins			7.08e3		1.106				1341		1.04e5			2.018
42	Total-pentadioxins			2.23e4		1.001				2086		2.56e5			6.880
43	Total-hexadioxins			8.30e4		0.937				1313		1.23e6			29.896
44	Total-heptadioxins			3.83e5		1.029				2808		5.02e6			162.589
45	Total-Dioxins			1.56e6		0.994				1341		1.69e7			831.723
46	Total-TEQ			1.85e6						1341		2.06e7			934.041
47	37CL-2378-TCDD	26.930	1.032	3.20e5		1.051		2022.0		2207		4.46e6			33.539
48	FUNCTION1 PFK			1.07e6						383515		1.83e7			0.000
49	FUNCTION2 PFK			1.89e5						161060		5.92e6			0.000
50	FUNCTION3 PFK			1.15e4						302452		5.60e5			0.000
51	FUNCTION4 PFK			0.00e0						245133		0.00e0			0.000
52	FUNCTION5 PFK			1.02e5						182605		3.97e6			0.000
53	FUNCTION1 HXCDPE			9.76e2						383		1.56e4			0.000
54	FUNCTION1 HPCDPE			1.61e3						1173		3.19e4			0.000
55	FUNCTION2 HPCDPE			6.37e2						1084		1.85e4			0.000
56	FUNCTION3 OCDPE			7.01e1						603		2.80e3			0.000
57	FUNCTION4 NCDPE			7.69e3						730		1.07e5			0.000
58	FUNCTION5 DCDPE			0.00e0						212		0.00e0			0.000

**Quantify Totals Report MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
35	Total-tetrafurans	303.9016	25.38	1158.289	0.921	0.120		1.21	0.77	YES	2.9
35	Total-tetrafurans	303.9016	25.20	3902.087	0.921	0.403		0.73	0.77	NO	9.5
35	Total-tetrafurans	303.9016	25.03	1216.298	0.921	0.126		1.08	0.77	YES	2.6
35	Total-tetrafurans	303.9016	24.94	988.936	0.921	0.102		0.60	0.77	YES	2.8
35	Total-tetrafurans	303.9016	24.27	2996.216	0.921	0.310		0.54	0.77	YES	7.1
35	Total-tetrafurans	303.9016	24.14	542.520	0.921	0.056		0.79	0.77	NO	2.5
35	Total-tetrafurans	303.9016	24.03	2173.615	0.921	0.225		0.89	0.77	YES	5.8
35	Total-tetrafurans	303.9016	23.93	1525.242	0.921	0.158		0.56	0.77	YES	2.8
35	Total-tetrafurans	303.9016	23.63	7295.129	0.921	0.754		0.89	0.77	YES	19.0
35	Total-tetrafurans	303.9016	23.05	1668.628	0.921	0.173		0.67	0.77	NO	4.5
35	Total-tetrafurans	303.9016	22.79	942.919	0.921	0.097		0.70	0.77	NO	3.3
1	2378-TCDF	303.9016	26.29	1483.977	0.921	0.153	0.100	0.40	0.77	YES	3.1

PP

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
36	Total-penta1	339.8597	27.71	35773.326		4.658		1.57	1.55	NO	398.9

PF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
37	Total-pentafurans	339.8597	30.65	1576.075	0.927	0.203		1.91	1.55	YES	4.7
2	12378-PeCDF	339.8597	30.45	764.553	0.912	0.096	0.086	1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	30.08	3276.565	0.927	0.422		2.38	1.55	YES	9.3
37	Total-pentafurans	339.8597	29.37	7830.540	0.927	1.008		1.46	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.29	2710.398	0.927	0.349		1.37	1.55	NO	15.1
37	Total-pentafurans	339.8597	29.18	1537.375	0.927	0.198		1.43	1.55	NO	5.0
3	23478-PeCDF	339.8597	31.78	1774.495	0.943	0.236	0.236	1.75	1.55	NO	5.5
37	Total-pentafurans	339.8597	31.63	1336.735	0.927	0.172		1.59	1.55	NO	5.0

HF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
38	Total-hexafurans	373.8208	35.98	594.016	1.062	0.091		1.26	1.24	NO	4.7
6	123678-HxCDF	373.8208	35.62	3369.936	1.056	0.459	0.459	1.34	1.24	NO	18.5
4	123478-HxCDF	373.8208	35.46	7509.441	1.101	1.113	1.113	1.12	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.30	1153.764	1.062	0.176		0.68	1.24	YES	6.5
38	Total-hexafurans	373.8208	34.82	33509.025	1.062	5.119		1.27	1.24	NO	190.0
38	Total-hexafurans	373.8208	34.50	897.580	1.062	0.137		0.75	1.24	YES	5.7
38	Total-hexafurans	373.8208	33.95	39649.823	1.062	6.057		1.16	1.24	NO	216.9
38	Total-hexafurans	373.8208	33.73	13892.720	1.062	2.122		1.02	1.24	YES	75.9
5	234678-HxCDF	373.8208	36.56	4522.134	1.073	0.714	0.714	1.17	1.24	NO	18.1

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

HPF

#	Name	Trace	RT	Abs Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
39	Total-heptafurans	407.7818	40.75	1149.841	1.231	0.210		0.57	1.05	YES	7.8
39	Total-heptafurans	407.7818	40.56	143329.398	1.231	26.226		1.00	1.05	NO	605.6
39	Total-heptafurans	407.7818	40.25	1441.460	1.231	0.264		0.91	1.05	NO	6.2
8	1234678-HpCDF	407.7818	39.76	88437.215	1.238	14.449	14.449	0.97	1.05	NO	381.7
9	1234789-HpCDF	407.7818	42.50	3809.217	1.224	0.791	0.711	1.28	1.05	YES	17.6
39	Total-heptafurans	407.7818	40.91	548.749	1.231	0.100		0.83	1.05	YES	2.6
39	Total-heptafurans	407.7818	40.82	552.117	1.231	0.101		1.75	1.05	YES	4.0



Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M.	pg	EMPC	1 <sup>st</sup> Rat.	1 <sup>st</sup> Rat.	1 <sup>st</sup> R.	SN
35	Total-tetrafurans	303.9016	25.38	1158.289	0.921	0.120		1.21	0.77	YES	2.9
35	Total-tetrafurans	303.9016	25.20	3902.087	0.921	0.403		0.73	0.77	NO	9.5
35	Total-tetrafurans	303.9016	25.03	1216.298	0.921	0.126		1.08	0.77	YES	2.6
35	Total-tetrafurans	303.9016	24.94	988.936	0.921	0.102		0.60	0.77	YES	2.8
35	Total-tetrafurans	303.9016	24.27	2996.216	0.921	0.310		0.54	0.77	YES	7.1
35	Total-tetrafurans	303.9016	24.14	542.520	0.921	0.056		0.79	0.77	NO	2.5
35	Total-tetrafurans	303.9016	24.03	2173.615	0.921	0.225		0.89	0.77	YES	5.8
35	Total-tetrafurans	303.9016	23.93	1525.242	0.921	0.158		0.56	0.77	YES	2.8
35	Total-tetrafurans	303.9016	23.63	7295.129	0.921	0.754		0.89	0.77	YES	19.0
35	Total-tetrafurans	303.9016	23.05	1668.628	0.921	0.173		0.67	0.77	NO	4.5
35	Total-tetrafurans	303.9016	22.79	942.919	0.921	0.097		0.70	0.77	NO	3.3
40	Total-Furans	303.9016	28.42	1320.827	1.065	0.118		1.00	0.77	YES	4.8
1	2378-TCDF	303.9016	26.29	1483.977	0.921	0.153	0.100	0.40	0.77	YES	3.1
37	Total-pentafurans	339.8597	30.65	1576.075	0.927	0.203		1.91	1.55	YES	4.7
2	12378-PeCDF	339.8597	30.45	764.553	0.912	0.096	0.086	1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	30.08	3276.565	0.927	0.422		2.38	1.55	YES	9.3
37	Total-pentafurans	339.8597	29.37	7830.540	0.927	1.008		1.46	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.29	2710.398	0.927	0.349		1.37	1.55	NO	15.1
37	Total-pentafurans	339.8597	29.18	1537.375	0.927	0.198		1.43	1.55	NO	5.0
3	23478-PeCDF	339.8597	31.78	1774.495	0.943	0.236	0.236	1.75	1.55	NO	5.5
37	Total-pentafurans	339.8597	31.63	1336.735	0.927	0.172		1.59	1.55	NO	5.0
38	Total-hexafurans	373.8208	35.98	594.016	1.062	0.091		1.26	1.24	NO	4.7
6	123678-HxCDF	373.8208	35.62	3369.936	1.056	0.459	0.459	1.34	1.24	NO	18.5
4	123478-HxCDF	373.8208	35.46	7509.441	1.101	1.113	1.113	1.12	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.30	1153.764	1.062	0.176		0.68	1.24	YES	6.5
38	Total-hexafurans	373.8208	34.82	33509.025	1.062	5.119		1.27	1.24	NO	190.0
38	Total-hexafurans	373.8208	34.50	897.580	1.062	0.137		0.75	1.24	YES	5.7
38	Total-hexafurans	373.8208	33.95	39649.823	1.062	6.057		1.16	1.24	NO	216.9
38	Total-hexafurans	373.8208	33.73	13892.720	1.062	2.122		1.02	1.24	YES	75.9
5	234678-HxCDF	373.8208	36.56	4522.134	1.073	0.714	0.714	1.17	1.24	NO	18.1
39	Total-heptafurans	407.7818	40.75	1149.841	1.231	0.210		0.57	1.05	YES	7.8
39	Total-heptafurans	407.7818	40.56	143329.398	1.231	26.226		1.00	1.05	NO	605.6
39	Total-heptafurans	407.7818	40.25	1441.460	1.231	0.264		0.91	1.05	NO	6.2
8	1234678-HpCDF	407.7818	39.76	88437.215	1.238	14.449	14.449	0.97	1.05	NO	381.7
9	1234789-HpCDF	407.7818	42.50	3809.217	1.224	0.791	0.711	1.28	1.05	YES	17.6
39	Total-heptafurans	407.7818	40.91	548.749	1.231	0.100		0.83	1.05	YES	2.6
39	Total-heptafurans	407.7818	40.82	552.117	1.231	0.101		1.75	1.05	YES	4.0
10	OCDF	441.7428	47.88	138763.797	1.162	34.054	34.054	0.90	0.89	NO	591.6
36	Total-penta1	339.8597	27.71	35773.326		4.658		1.57	1.55	NO	398.9

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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	24.33	2319.977	1.106	0.299		1.20	0.77	YES	17.4
41	Total-tetradoxins	319.8965	24.06	2753.498	1.106	0.354		0.58	0.77	YES	9.0
41	Total-tetradoxins	319.8965	27.06	1076.705	1.106	0.139		0.78	0.77	NO	5.8
11	2378-TCDD	319.8965	26.93	979.112	1.106	0.126	0.094	0.48	0.77	YES	3.6
41	Total-tetradoxins	319.8965	26.26	577.432	1.106	0.074		2.55	0.77	YES	4.9
41	Total-tetradoxins	319.8965	26.11	1346.516	1.106	0.173		0.70	0.77	NO	6.2
41	Total-tetradoxins	319.8965	25.54	1536.912	1.106	0.198		0.79	0.77	NO	7.0
41	Total-tetradoxins	319.8965	25.27	850.345	1.106	0.109		1.69	0.77	YES	4.0
41	Total-tetradoxins	319.8965	25.05	1952.018	1.106	0.251		0.63	0.77	YES	7.7
41	Total-tetradoxins	319.8965	24.52	437.532	1.106	0.056		0.77	0.77	NO	2.6
41	Total-tetradoxins	319.8965	27.51	1851.081	1.106	0.238		0.93	0.77	YES	8.8

PD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
42	Total-pentadoxins	355.8546	29.26	20077.004	1.001	3.749		1.29	1.55	YES	47.3
12	12378-PeCDD	355.8546	32.03	3390.870	1.001	0.633	0.633	1.39	1.55	NO	9.6
42	Total-pentadoxins	355.8546	31.35	903.409	1.001	0.169		0.89	1.55	YES	5.0
42	Total-pentadoxins	355.8546	30.92	959.957	1.001	0.179		2.42	1.55	YES	8.0
42	Total-pentadoxins	355.8546	30.80	1828.229	1.001	0.341		4.54	1.55	YES	10.2
42	Total-pentadoxins	355.8546	30.66	5142.506	1.001	0.960		2.20	1.55	YES	20.2
42	Total-pentadoxins	355.8546	30.43	2693.410	1.001	0.503		1.76	1.55	NO	11.7
42	Total-pentadoxins	355.8546	29.82	1005.393	1.001	0.188		2.23	1.55	YES	6.0
42	Total-pentadoxins	355.8546	30.96	841.357	1.001	0.157		1.08	1.55	YES	4.9

HD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
15	123789-HxCDD	389.8157	37.24	9382.470	0.904	1.929	1.929	1.22	1.24	NO	52.8
43	Total-hexadoxins	389.8157	36.99	6269.028	0.937	1.244		1.16	1.24	NO	39.7
14	123678-HxCDD	389.8157	36.82	16502.168	0.929	3.159	3.159	1.22	1.24	NO	103.0
13	123478-HxCDD	389.8157	36.70	16398.136	0.978	3.267	3.267	1.22	1.24	NO	92.1
43	Total-hexadoxins	389.8157	35.74	25870.687	0.937	5.134		1.02	1.24	YES	167.5
43	Total-hexadoxins	389.8157	35.69	23592.268	0.937	4.682		1.47	1.24	YES	175.1
43	Total-hexadoxins	389.8157	35.34	12339.914	0.937	2.449		1.29	1.24	NO	74.3
43	Total-hexadoxins	389.8157	34.53	40469.592	0.937	8.031		1.22	1.24	NO	232.7

HPD

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
16	1234678-HpCDD	423.7766	41.60	411013.391	1.029	88.512	88.512	1.02	1.05	NO	911.0
44	Total-heptadoxins	423.7766	40.32	343980.562	1.029	74.077		1.04	1.05	NO	875.9

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Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat.	1° Rat.	1° R.	SN
41	Total-tetradoxins	319.8965	24.33	2319.977	1.106	0.299		1.20	0.77	YES	17.4
41	Total-tetradoxins	319.8965	24.06	2753.498	1.106	0.354		0.58	0.77	YES	9.0
45	Total-Dioxins	319.8965	23.43	510.003	0.994	0.073		1.93	0.77	YES	4.1
41	Total-tetradoxins	319.8965	27.06	1076.705	1.106	0.139		0.78	0.77	NO	5.8
11	2378-TCDD	319.8965	26.93	979.112	1.106	0.126	0.094	0.48	0.77	YES	3.6
41	Total-tetradoxins	319.8965	26.26	577.432	1.106	0.074		2.55	0.77	YES	4.9
41	Total-tetradoxins	319.8965	26.11	1346.516	1.106	0.173		0.70	0.77	NO	6.2
41	Total-tetradoxins	319.8965	25.54	1536.912	1.106	0.198		0.79	0.77	NO	7.0
41	Total-tetradoxins	319.8965	25.27	850.345	1.106	0.109		1.69	0.77	YES	4.0
41	Total-tetradoxins	319.8965	25.05	1952.018	1.106	0.251		0.63	0.77	YES	7.7
41	Total-tetradoxins	319.8965	24.52	437.532	1.106	0.056		0.77	0.77	NO	2.6
45	Total-Dioxins	319.8965	27.80	1081.292	0.994	0.155		0.89	0.77	YES	8.0
41	Total-tetradoxins	319.8965	27.51	1851.081	1.106	0.238		0.93	0.77	YES	8.8
42	Total-pentadoxins	355.8546	29.26	20077.004	1.001	3.749		1.29	1.55	YES	47.3
12	12378-PeCDD	355.8546	32.03	3390.870	1.001	0.633	0.633	1.39	1.55	NO	9.6
42	Total-pentadoxins	355.8546	31.35	903.409	1.001	0.169		0.89	1.55	YES	5.0
42	Total-pentadoxins	355.8546	30.92	959.957	1.001	0.179		2.42	1.55	YES	8.0
42	Total-pentadoxins	355.8546	30.80	1828.229	1.001	0.341		4.54	1.55	YES	10.2
42	Total-pentadoxins	355.8546	30.66	5142.506	1.001	0.960		2.20	1.55	YES	20.2
42	Total-pentadoxins	355.8546	30.43	2693.410	1.001	0.503		1.76	1.55	NO	11.7
42	Total-pentadoxins	355.8546	29.82	1005.393	1.001	0.188		2.23	1.55	YES	6.0
15	123789-HxCDD	389.8157	37.24	9382.470	0.904	1.929	1.929	1.22	1.24	NO	52.8
43	Total-hexadoxins	389.8157	36.99	6269.028	0.937	1.244		1.16	1.24	NO	39.7
14	123678-HxCDD	389.8157	36.82	16502.168	0.929	3.159	3.159	1.22	1.24	NO	103.0
13	123478-HxCDD	389.8157	36.70	16398.136	0.978	3.267	3.267	1.22	1.24	NO	92.1
43	Total-hexadoxins	389.8157	35.74	25870.687	0.937	5.134		1.02	1.24	YES	167.5
43	Total-hexadoxins	389.8157	35.69	23592.268	0.937	4.682		1.47	1.24	YES	175.1
43	Total-hexadoxins	389.8157	35.34	12339.914	0.937	2.449		1.29	1.24	NO	74.3
43	Total-hexadoxins	389.8157	34.53	40469.592	0.937	8.031		1.22	1.24	NO	232.7
16	1234678-HpCDD	423.7766	41.60	411013.391	1.029	88.512	88.512	1.02	1.05	NO	911.0
44	Total-heptadoxins	423.7766	40.32	343980.562	1.029	74.077		1.04	1.05	NO	875.9
17	OCDD	457.7377	47.60	2234406.375	1.011	630.112	630....	0.91	0.89	NO	2844.8
42	Total-pentadoxins	355.8546	30.96	841.357	1.001	0.157		1.08	1.55	YES	4.9

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TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Ref.	1° Ref.	1° R.	SN
35	Total-tetrafurans	303.9016	25.38	1158.289	0.921	0.120		1.21	0.77	YES	2.9
35	Total-tetrafurans	303.9016	25.20	3902.087	0.921	0.403		0.73	0.77	NO	9.5
35	Total-tetrafurans	303.9016	25.03	1216.298	0.921	0.126		1.08	0.77	YES	2.6
35	Total-tetrafurans	303.9016	24.94	988.936	0.921	0.102		0.60	0.77	YES	2.8
35	Total-tetrafurans	303.9016	24.27	2996.216	0.921	0.310		0.54	0.77	YES	7.1
35	Total-tetrafurans	303.9016	24.14	542.520	0.921	0.056		0.79	0.77	NO	2.5
35	Total-tetrafurans	303.9016	24.03	2173.615	0.921	0.225		0.89	0.77	YES	5.8
35	Total-tetrafurans	303.9016	23.93	1525.242	0.921	0.158		0.56	0.77	YES	2.8
35	Total-tetrafurans	303.9016	23.63	7295.129	0.921	0.754		0.89	0.77	YES	19.0
35	Total-tetrafurans	303.9016	23.05	1668.628	0.921	0.173		0.67	0.77	NO	4.5
35	Total-tetrafurans	303.9016	22.79	942.919	0.921	0.097		0.70	0.77	NO	3.3
40	Total-Furans	303.9016	28.42	1320.827	1.065	0.118		1.00	0.77	YES	4.8
1	2378-TCDF	303.9016	26.29	1483.977	0.921	0.153	0.100	0.40	0.77	YES	3.1
37	Total-pentafurans	339.8597	30.65	1576.075	0.927	0.203		1.91	1.55	YES	4.7
2	12378-PeCDF	339.8597	30.45	764.553	0.912	0.096	0.086	1.21	1.55	YES	2.7
37	Total-pentafurans	339.8597	30.08	3276.565	0.927	0.422		2.38	1.55	YES	9.3
37	Total-pentafurans	339.8597	29.37	7830.540	0.927	1.008		1.46	1.55	NO	20.8
37	Total-pentafurans	339.8597	29.29	2710.398	0.927	0.349		1.37	1.55	NO	15.1
37	Total-pentafurans	339.8597	29.18	1537.375	0.927	0.198		1.43	1.55	NO	5.0
3	23478-PeCDF	339.8597	31.78	1774.495	0.943	0.236	0.236	1.75	1.55	NO	5.5
37	Total-pentafurans	339.8597	31.63	1336.735	0.927	0.172		1.59	1.55	NO	5.0
38	Total-hexafurans	373.8208	35.98	594.016	1.062	0.091		1.26	1.24	NO	4.7
6	123678-HxCDF	373.8208	35.62	3369.936	1.056	0.459	0.459	1.34	1.24	NO	18.5
4	123478-HxCDF	373.8208	35.46	7509.441	1.101	1.113	1.113	1.12	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.30	1153.764	1.062	0.176		0.68	1.24	YES	6.5
38	Total-hexafurans	373.8208	34.82	33509.025	1.062	5.119		1.27	1.24	NO	190.0
38	Total-hexafurans	373.8208	34.50	897.580	1.062	0.137		0.75	1.24	YES	5.7
38	Total-hexafurans	373.8208	33.95	39649.823	1.062	6.057		1.16	1.24	NO	216.9
38	Total-hexafurans	373.8208	33.73	13892.720	1.062	2.122		1.02	1.24	YES	75.9
5	234678-HxCDF	373.8208	36.56	4522.134	1.073	0.714	0.714	1.17	1.24	NO	18.1
39	Total-heptafurans	407.7818	40.75	1149.841	1.231	0.210		0.57	1.05	YES	7.8
39	Total-heptafurans	407.7818	40.56	143329.398	1.231	26.226		1.00	1.05	NO	605.6
39	Total-heptafurans	407.7818	40.25	1441.460	1.231	0.264		0.91	1.05	NO	6.2
8	1234678-HpCDF	407.7818	39.76	88437.215	1.238	14.449	14.449	0.97	1.05	NO	381.7
9	1234789-HpCDF	407.7818	42.50	3809.217	1.224	0.791	0.711	1.28	1.05	YES	17.6
39	Total-heptafurans	407.7818	40.91	548.749	1.231	0.100		0.83	1.05	YES	2.6
39	Total-heptafurans	407.7818	40.82	552.117	1.231	0.101		1.75	1.05	YES	4.0
10	OCDF	441.7428	47.88	138763.797	1.162	34.054	34.054	0.90	0.89	NO	591.6
36	Total-penta1	339.8597	27.71	35773.326		4.658		1.57	1.55	NO	398.9
41	Total-tetradiioxins	319.8965	24.33	2319.977	1.106	0.299		1.20	0.77	YES	17.4
41	Total-tetradiioxins	319.8965	24.06	2753.498	1.106	0.354		0.58	0.77	YES	9.0
45	Total-Dioxins	319.8965	23.43	510.003	0.994	0.073		1.93	0.77	YES	4.1
41	Total-tetradiioxins	319.8965	27.06	1076.705	1.106	0.139		0.78	0.77	NO	5.8
11	2378-TCDD	319.8965	26.93	979.112	1.106	0.126	0.094	0.48	0.77	YES	3.6
41	Total-tetradiioxins	319.8965	26.26	577.432	1.106	0.074		2.55	0.77	YES	4.9
41	Total-tetradiioxins	319.8965	26.11	1346.516	1.106	0.173		0.70	0.77	NO	6.2
41	Total-tetradiioxins	319.8965	25.54	1536.912	1.106	0.198		0.79	0.77	NO	7.0
41	Total-tetradiioxins	319.8965	25.27	850.345	1.106	0.109		1.69	0.77	YES	4.0
41	Total-tetradiioxins	319.8965	25.05	1952.018	1.106	0.251		0.63	0.77	YES	7.7

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TotalTEQ,Furans,Dioxins

#	Name	Trace	FT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	SN
41	Total-tetradoxins	319.8965	24.52	437.532	1.106		0.056		0.77	0.77	NO	2.6
45	Total-Dioxins	319.8965	27.80	1081.292	0.994		0.155		0.89	0.77	YES	8.0
41	Total-tetradoxins	319.8965	27.51	1851.081	1.106		0.238		0.93	0.77	YES	8.8
42	Total-pentadoxins	355.8546	29.26	20077.004	1.001		3.749		1.29	1.55	YES	47.3
12	12378-PeCDD	355.8546	32.03	3390.870	1.001		0.633	0.633	1.39	1.55	NO	9.6
42	Total-pentadoxins	355.8546	31.35	903.409	1.001		0.169		0.89	1.55	YES	5.0
42	Total-pentadoxins	355.8546	30.92	959.957	1.001		0.179		2.42	1.55	YES	8.0
42	Total-pentadoxins	355.8546	30.80	1828.229	1.001		0.341		4.54	1.55	YES	10.2
42	Total-pentadoxins	355.8546	30.66	5142.506	1.001		0.960		2.20	1.55	YES	20.2
42	Total-pentadoxins	355.8546	30.43	2693.410	1.001		0.503		1.76	1.55	NO	11.7
42	Total-pentadoxins	355.8546	29.82	1005.393	1.001		0.188		2.23	1.55	YES	6.0
15	123789-HxCDD	389.8157	37.24	9382.470	0.904		1.929	1.929	1.22	1.24	NO	52.8
43	Total-hexadoxins	389.8157	36.99	6269.028	0.937		1.244		1.16	1.24	NO	39.7
14	123678-HxCDD	389.8157	36.82	16502.168	0.929		3.159	3.159	1.22	1.24	NO	103.0
13	123478-HxCDD	389.8157	36.70	16398.136	0.978		3.267	3.267	1.22	1.24	NO	92.1
43	Total-hexadoxins	389.8157	35.74	25870.687	0.937		5.134		1.02	1.24	YES	167.5
43	Total-hexadoxins	389.8157	35.69	23592.268	0.937		4.682		1.47	1.24	YES	175.1
43	Total-hexadoxins	389.8157	35.34	12339.914	0.937		2.449		1.29	1.24	NO	74.3
43	Total-hexadoxins	389.8157	34.53	40469.592	0.937		8.031		1.22	1.24	NO	232.7
16	1234678-HpCDD	423.7766	41.60	411013.391	1.029		88.512	88.512	1.02	1.05	NO	911.0
44	Total-heptadoxins	423.7766	40.32	343980.562	1.029		74.077		1.04	1.05	NO	875.9
17	OCDD	457.7377	47.60	2234406.375	1.011		630.112	630....	0.91	0.89	NO	2844.8
42	Total-pentadoxins	355.8546	30.96	841.357	1.001		0.157		1.08	1.55	YES	4.9

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PFK1

#	Name	Trace	RT	Abs Resp	PFM...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
48	FUNCTION1 PFK	330.9792	23.60	0.000							1.7
48	FUNCTION1 PFK	330.9792	23.13	0.000							0.7
48	FUNCTION1 PFK	330.9792	22.36	0.000							1.0
48	FUNCTION1 PFK	330.9792	21.88	0.000							4.2
48	FUNCTION1 PFK	330.9792	21.78	0.000							0.5
48	FUNCTION1 PFK	330.9792	21.64	0.000							2.5
48	FUNCTION1 PFK	330.9792	21.34	0.000							1.8
48	FUNCTION1 PFK	330.9792	26.21	0.000							2.1
48	FUNCTION1 PFK	330.9792	26.11	0.000							1.7
48	FUNCTION1 PFK	330.9792	26.00	0.000							2.4
48	FUNCTION1 PFK	330.9792	25.90	0.000							1.2
48	FUNCTION1 PFK	330.9792	25.82	0.000							2.2
48	FUNCTION1 PFK	330.9792	25.63	0.000							1.2
48	FUNCTION1 PFK	330.9792	25.35	0.000							1.6
48	FUNCTION1 PFK	330.9792	25.15	0.000							0.9
48	FUNCTION1 PFK	330.9792	24.73	0.000							1.0
48	FUNCTION1 PFK	330.9792	24.18	0.000							1.3
48	FUNCTION1 PFK	330.9792	24.11	0.000							2.2
48	FUNCTION1 PFK	330.9792	23.99	0.000							1.1
48	FUNCTION1 PFK	330.9792	23.93	0.000							0.4
48	FUNCTION1 PFK	330.9792	23.87	0.000							0.9
48	FUNCTION1 PFK	330.9792	23.79	0.000							1.1
48	FUNCTION1 PFK	330.9792	23.67	0.000							2.1
48	FUNCTION1 PFK	330.9792	28.38	0.000							0.9
48	FUNCTION1 PFK	330.9792	28.17	0.000							0.7
48	FUNCTION1 PFK	330.9792	28.04	0.000							0.6
48	FUNCTION1 PFK	330.9792	27.95	0.000							0.6
48	FUNCTION1 PFK	330.9792	27.63	0.000							1.2
48	FUNCTION1 PFK	330.9792	27.41	0.000							0.3
48	FUNCTION1 PFK	330.9792	27.30	0.000							1.3
48	FUNCTION1 PFK	330.9792	26.99	0.000							1.9
48	FUNCTION1 PFK	330.9792	26.81	0.000							1.4
48	FUNCTION1 PFK	330.9792	26.59	0.000							0.7
48	FUNCTION1 PFK	330.9792	26.29	0.000							2.5

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
49	FUNCTION2 PFK	366.9792	29.07	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	28.89	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	28.78	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	28.66	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	31.03	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	30.99	0.000		0.000					1.9
49	FUNCTION2 PFK	366.9792	30.95	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	30.80	0.000		0.000					0.5
49	FUNCTION2 PFK	366.9792	30.71	0.000		0.000					0.4
49	FUNCTION2 PFK	366.9792	30.42	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	30.33	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	30.30	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	30.06	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	29.93	0.000		0.000					0.9
49	FUNCTION2 PFK	366.9792	29.88	0.000		0.000					1.7
49	FUNCTION2 PFK	366.9792	29.83	0.000		0.000					1.2
49	FUNCTION2 PFK	366.9792	29.71	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	29.62	0.000		0.000					2.4
49	FUNCTION2 PFK	366.9792	29.53	0.000		0.000					2.5
49	FUNCTION2 PFK	366.9792	29.18	0.000		0.000					0.7
49	FUNCTION2 PFK	366.9792	33.06	0.000		0.000					0.6
49	FUNCTION2 PFK	366.9792	32.99	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	32.84	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	32.63	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	31.98	0.000		0.000					1.5
49	FUNCTION2 PFK	366.9792	31.34	0.000		0.000					1.6
49	FUNCTION2 PFK	366.9792	31.30	0.000		0.000					0.8
49	FUNCTION2 PFK	366.9792	31.20	0.000		0.000					1.0
49	FUNCTION2 PFK	366.9792	31.14	0.000		0.000					1.3
49	FUNCTION2 PFK	366.9792	31.11	0.000		0.000					2.1

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
50	FUNCTION3 PFK	380.9760	38.63	0.000		0.000					1.9

PFK4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	SN
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Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

D: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, 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	45.22	0.000							1.3
52	FUNCTION5 PFK	480.9696	45.13	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.63	0.000							1.5
52	FUNCTION5 PFK	480.9696	48.55	0.000							1.7
52	FUNCTION5 PFK	480.9696	48.10	0.000							0.8
52	FUNCTION5 PFK	480.9696	47.99	0.000							0.7
52	FUNCTION5 PFK	480.9696	47.00	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.97	0.000							0.7
52	FUNCTION5 PFK	480.9696	46.80	0.000							0.5
52	FUNCTION5 PFK	480.9696	46.78	0.000							1.5
52	FUNCTION5 PFK	480.9696	46.75	0.000							1.3
52	FUNCTION5 PFK	480.9696	46.57	0.000							0.6
52	FUNCTION5 PFK	480.9696	46.53	0.000							0.8
52	FUNCTION5 PFK	480.9696	46.50	0.000							1.1
52	FUNCTION5 PFK	480.9696	46.44	0.000							1.6
52	FUNCTION5 PFK	480.9696	46.21	0.000							1.4
52	FUNCTION5 PFK	480.9696	45.79	0.000							0.6
52	FUNCTION5 PFK	480.9696	45.75	0.000							1.7
52	FUNCTION5 PFK	480.9696	49.57	0.000							1.0
52	FUNCTION5 PFK	480.9696	48.66	0.000							0.9

ETHERS1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
53	FUNCTION1 HXCD...	375.8364	27.50	0.000		0.000					5.3
53	FUNCTION1 HXCD...	375.8364	26.18	0.000		0.000					8.5
53	FUNCTION1 HXCD...	375.8364	24.14	0.000		0.000					27.1

ETHERS2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
54	FUNCTION1 HPCD...	409.7974	26.41	0.000		0.000					1.0
54	FUNCTION1 HPCD...	409.7974	26.20	0.000		0.000					2.4
54	FUNCTION1 HPCD...	409.7974	25.36	0.000		0.000					2.4
54	FUNCTION1 HPCD...	409.7974	24.12	0.000		0.000					2.2
54	FUNCTION1 HPCD...	409.7974	23.81	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	23.75	0.000		0.000					1.7
54	FUNCTION1 HPCD...	409.7974	23.30	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	22.51	0.000		0.000					1.4
54	FUNCTION1 HPCD...	409.7974	21.18	0.000		0.000					1.9
54	FUNCTION1 HPCD...	409.7974	28.39	0.000		0.000					1.4
54	FUNCTION1 HPCD...	409.7974	28.26	0.000		0.000					3.3
54	FUNCTION1 HPCD...	409.7974	28.05	0.000		0.000					1.3
54	FUNCTION1 HPCD...	409.7974	27.83	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	27.08	0.000		0.000					1.1
54	FUNCTION1 HPCD...	409.7974	26.77	0.000		0.000					1.8



Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
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ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

ETHERS3

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
55	FUNCTION2 HPCD...	409.7974	32.96	0.000		0.000					2.8
55	FUNCTION2 HPCD...	409.7974	32.48	0.000		0.000					2.7
55	FUNCTION2 HPCD...	409.7974	32.23	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	30.51	0.000		0.000					2.4
55	FUNCTION2 HPCD...	409.7974	30.34	0.000		0.000					2.2
55	FUNCTION2 HPCD ..	409.7974	30.29	0.000		0.000					1.9
55	FUNCTION2 HPCD...	409.7974	29.48	0.000		0.000					3.0

ETHERS4

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
56	FUNCTION3 OCDPE	445.7555	37.86	0.000		0.000					4.6

ETHERS5

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
57	FUNCTION4 NCDPE	479.7165	43.66	0.000		0.000					3.7
57	FUNCTION4 NCDPE	479.7165	41.09	0.000		0.000					4.5
57	FUNCTION4 NCDPE	479.7165	39.34	0.000		0.000					138.8

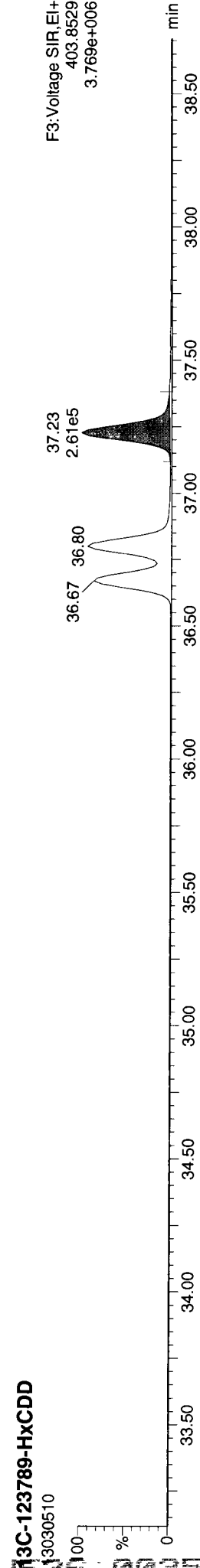
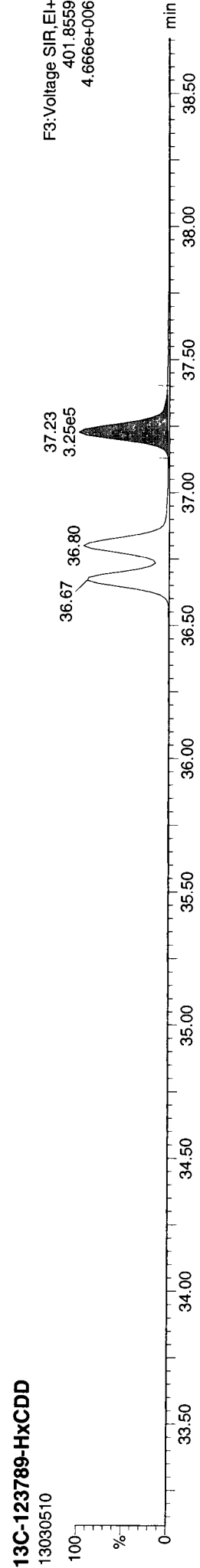
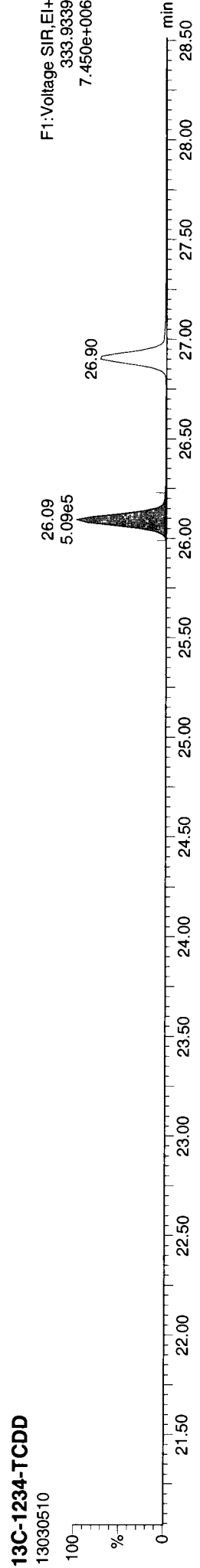
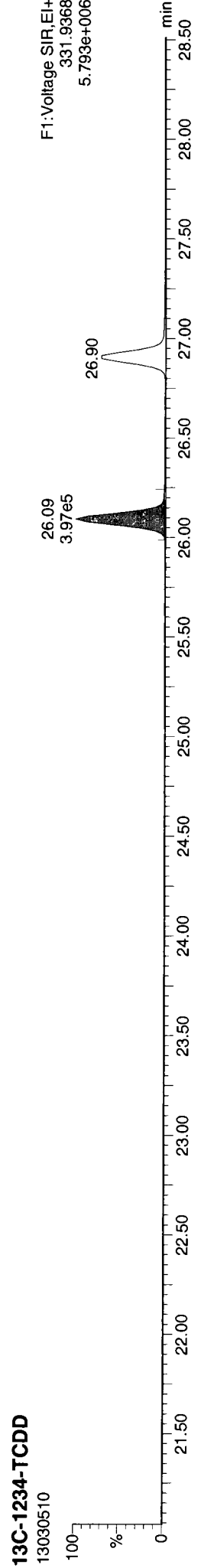
ETHERS6

#	Name	Trace	RT	Abs. Resp	RRF M...	pg	EMPC	1° Rat...	1° Rat...	1° R...	S/N
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**Quantity Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

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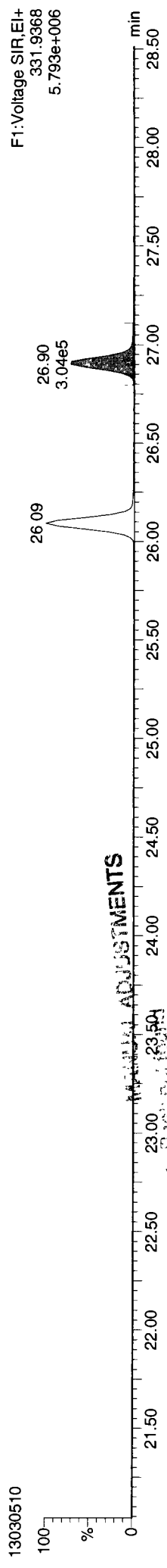
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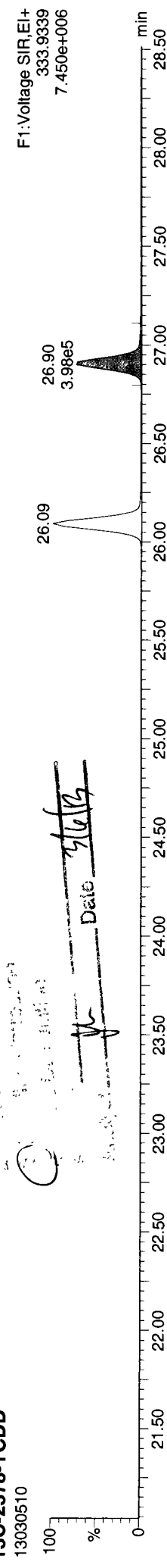
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 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

**ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk**

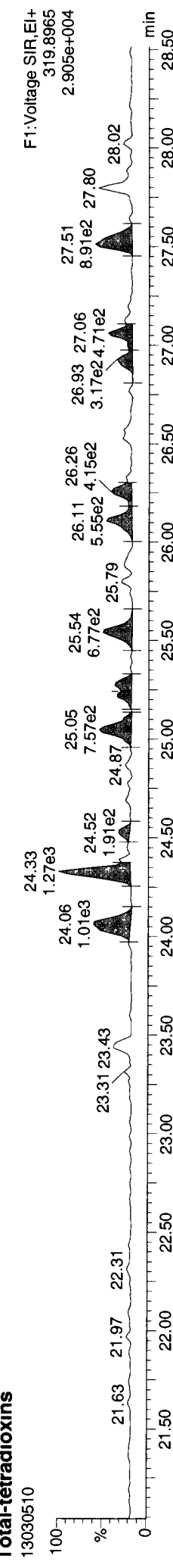
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13030510



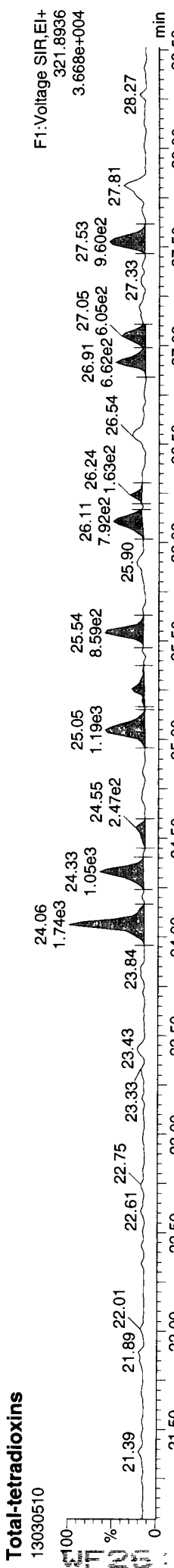
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13030510



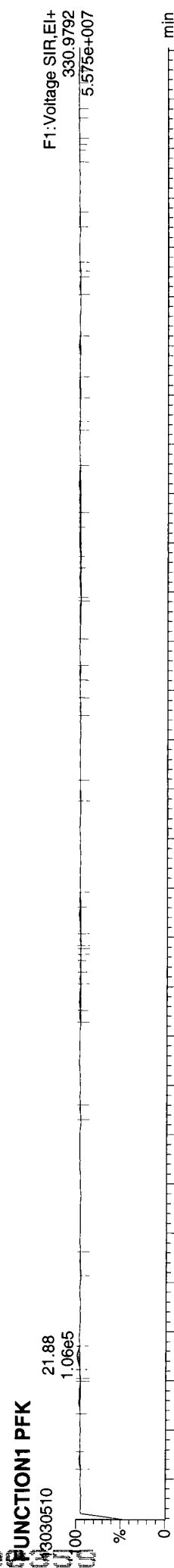
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13030510



**Total-tetradoxins**  
13030510



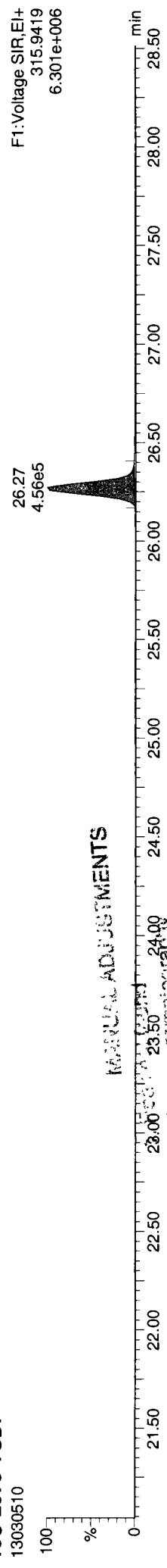
**FUNCTION1 PFK**  
13030510



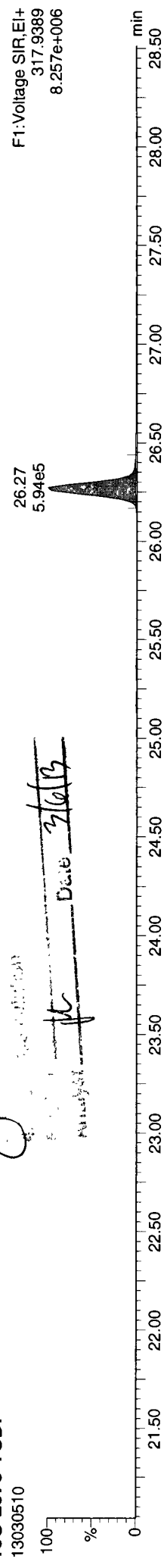
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Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
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Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

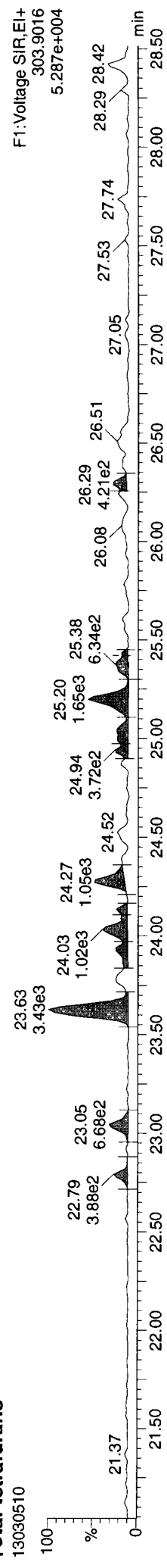
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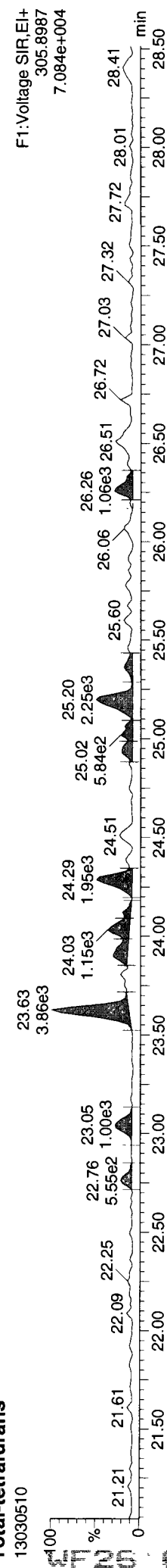
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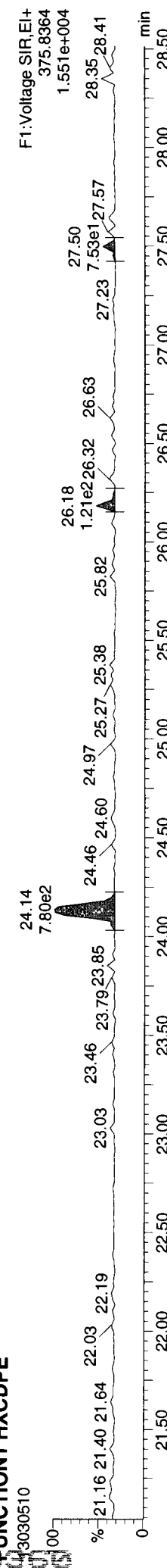
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13030510



Total-tetrafurans  
13030510



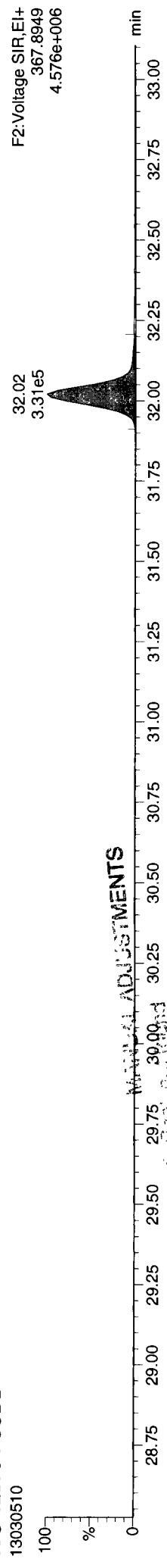
FUNCTION1 HXCDPE  
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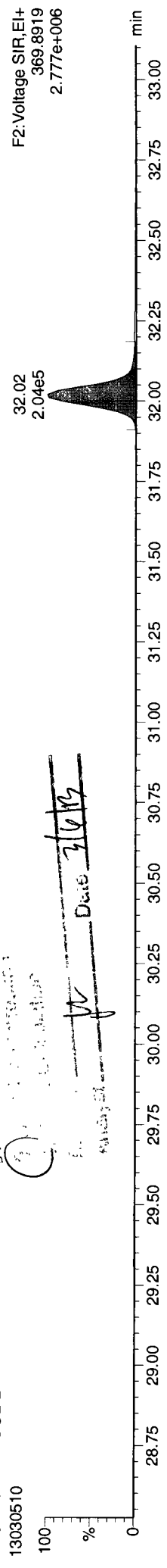
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Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

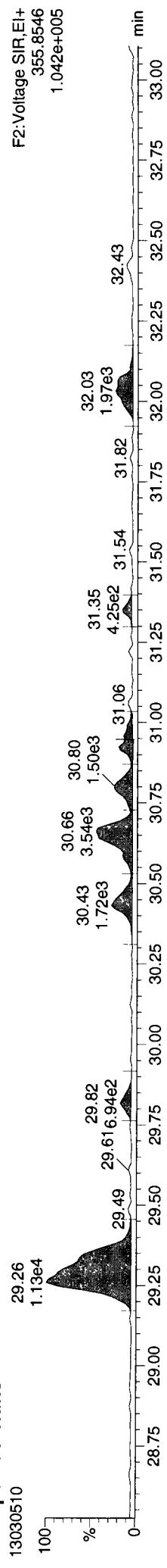
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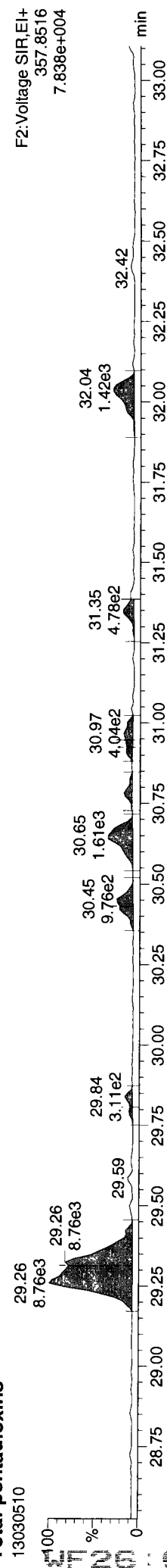
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13030510



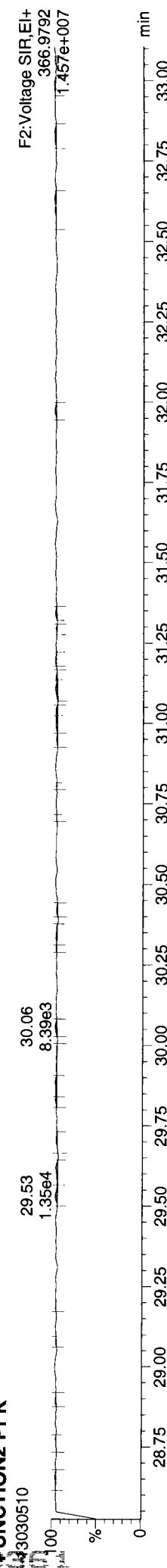
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**Total-pentadioxins**  
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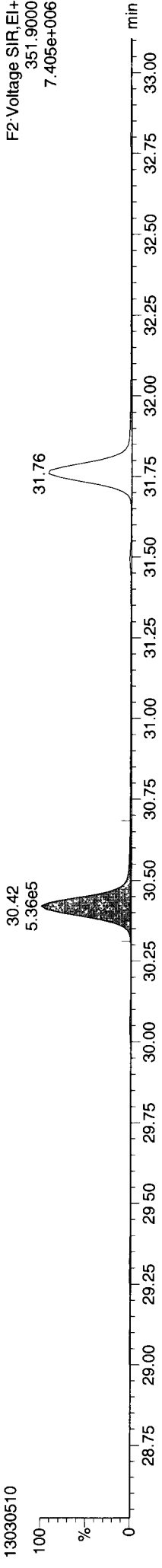


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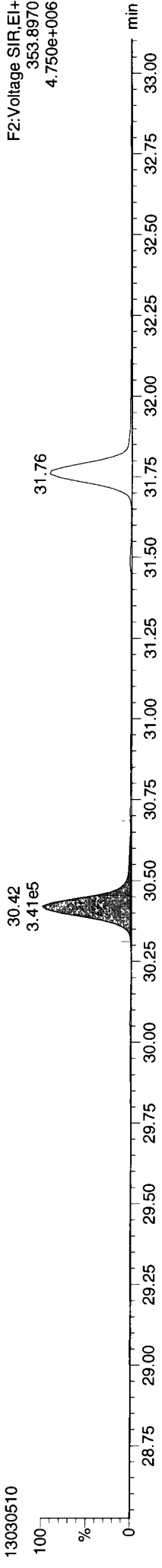


ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

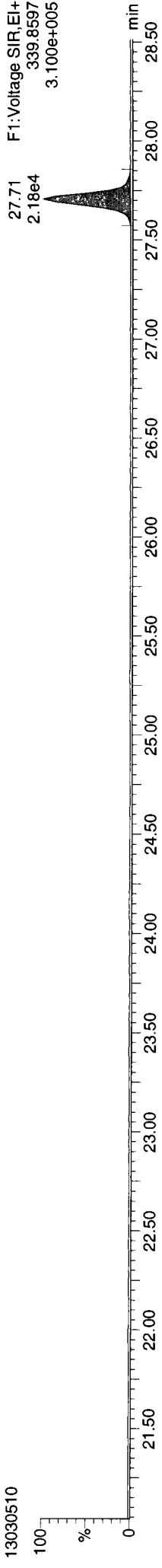
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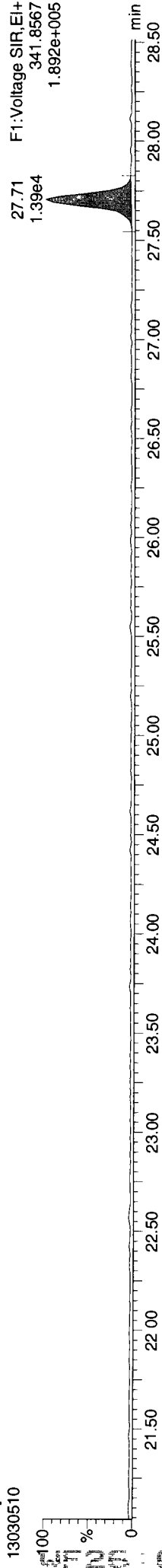
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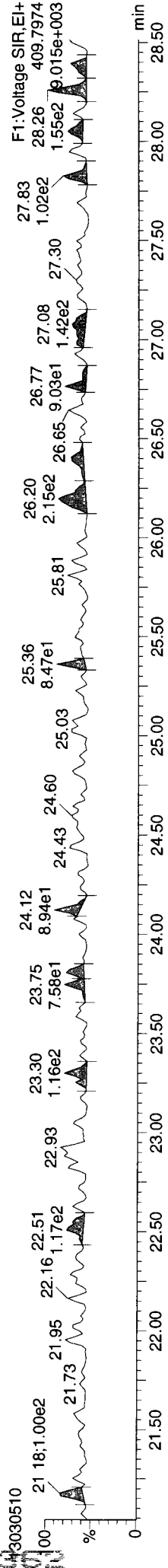
Total-penta1



Total-penta1



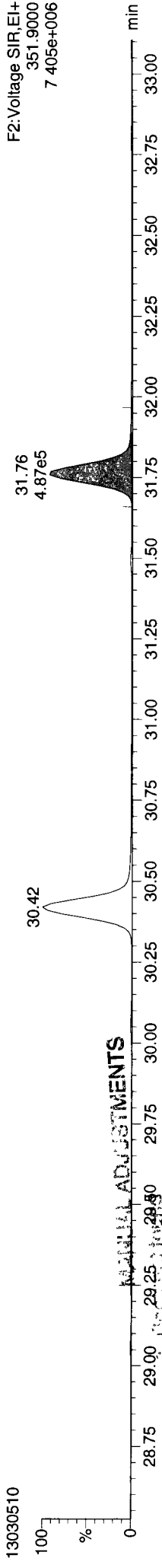
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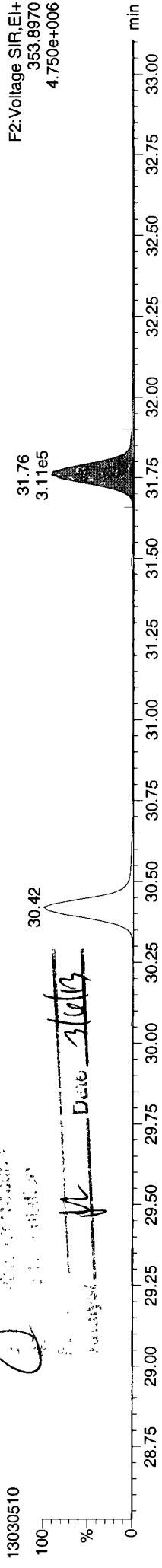
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 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

**ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk**

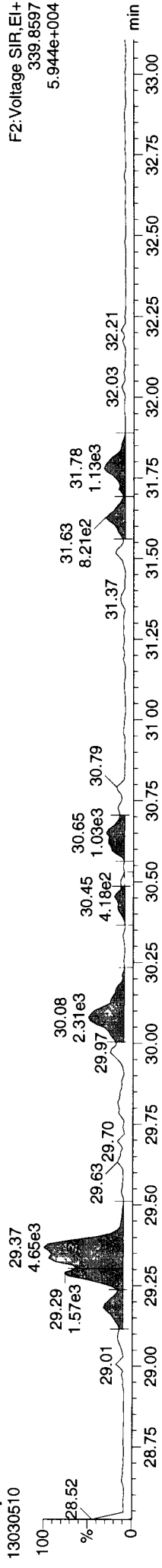
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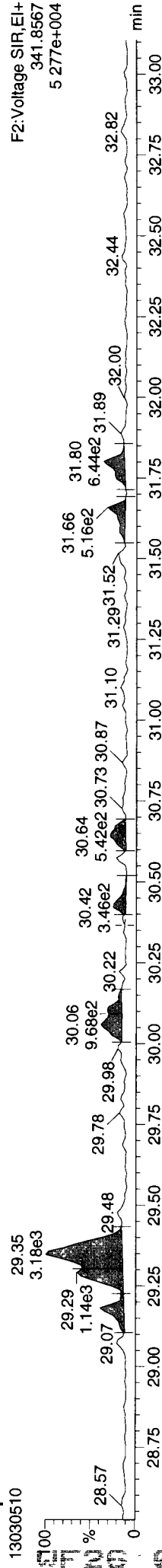
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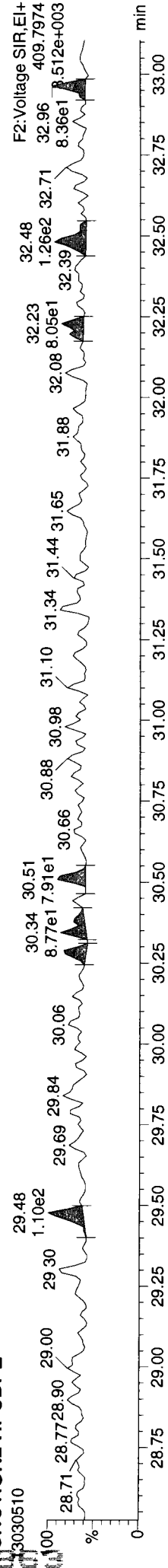
**Total-pentafurans**



**Total-pentafurans**



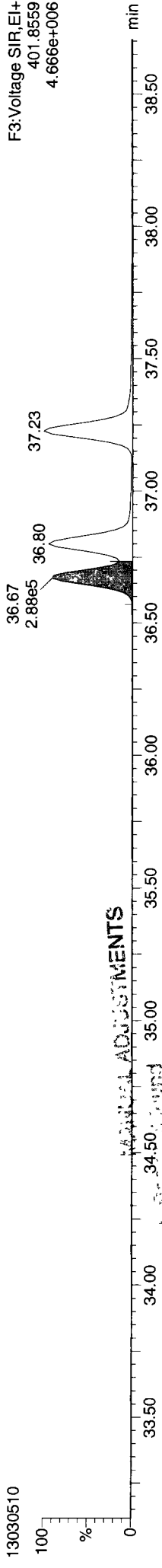
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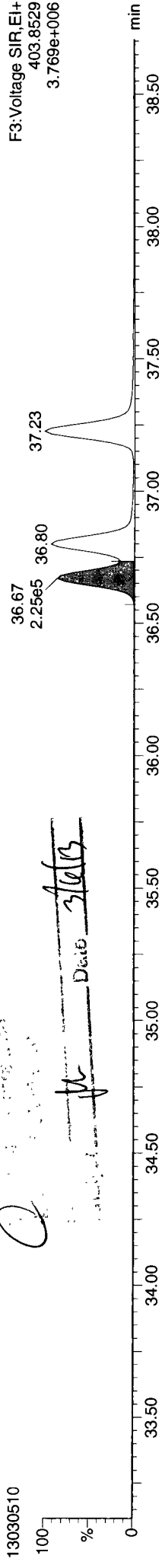
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ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

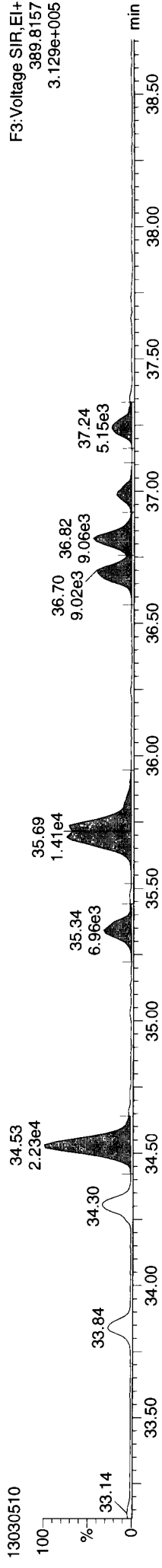
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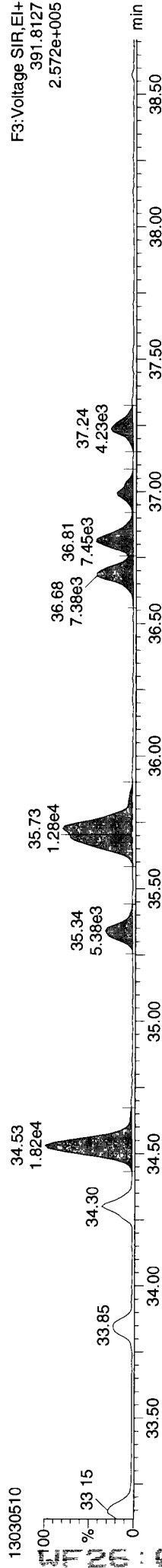
13C-123478-HxCDD



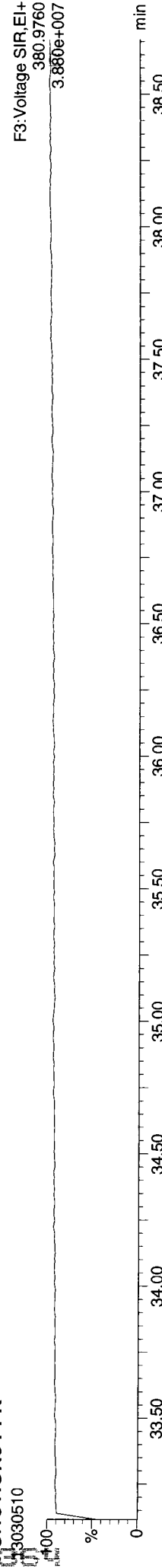
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



MANUAL ADJUSTMENTS

34.50 ground

*O*  
Date 3/6/13

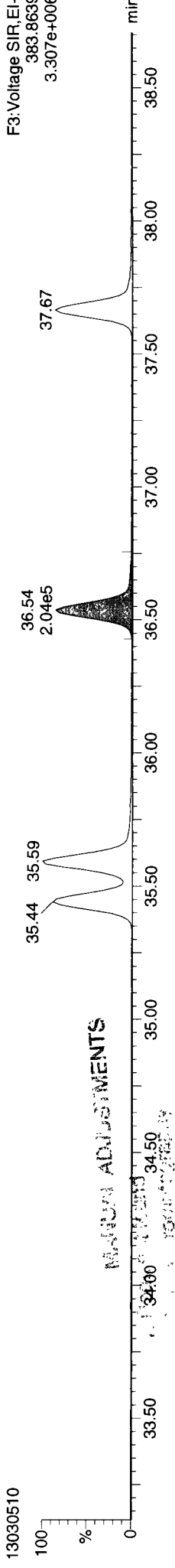
77.20 00.00



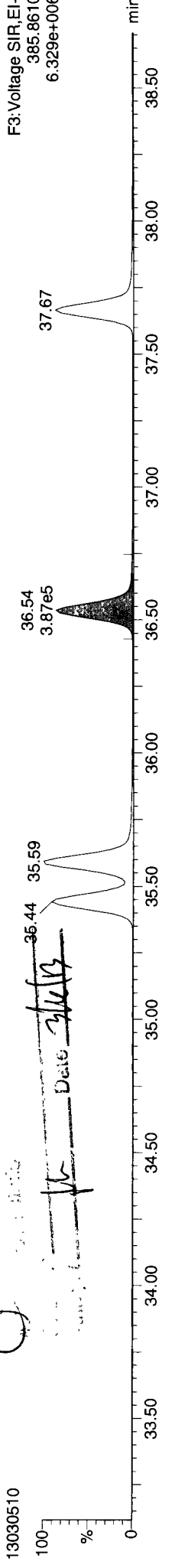
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

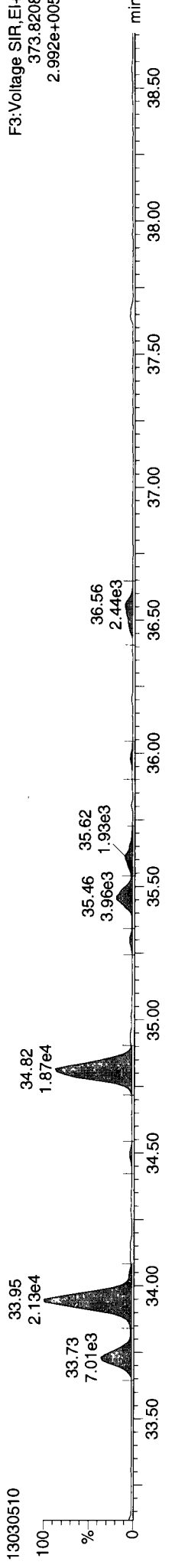
13C-234678-HxCDF



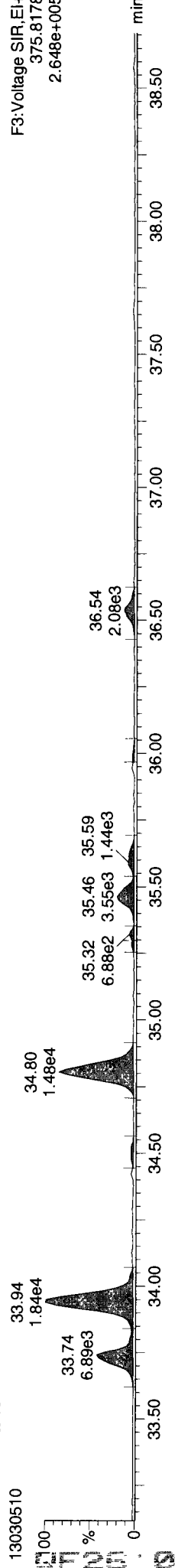
13C-234678-HxCDF



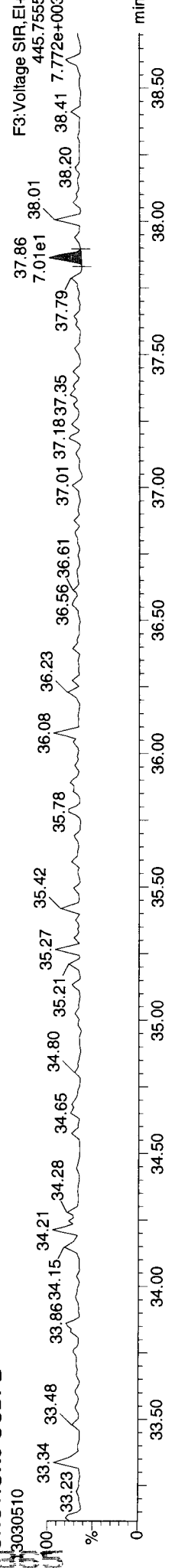
Total-hexafurans



Total-hexafurans



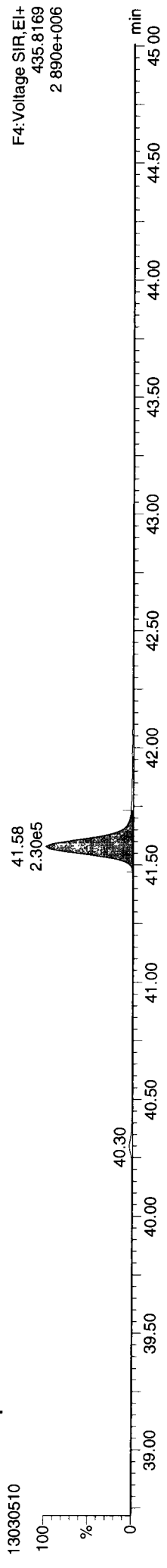
FUNCTION3 OCDPE



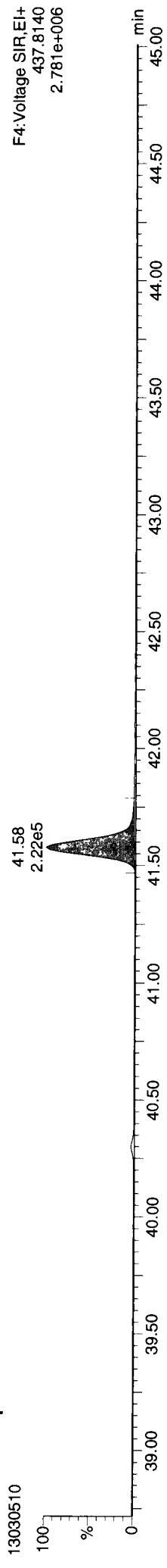
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

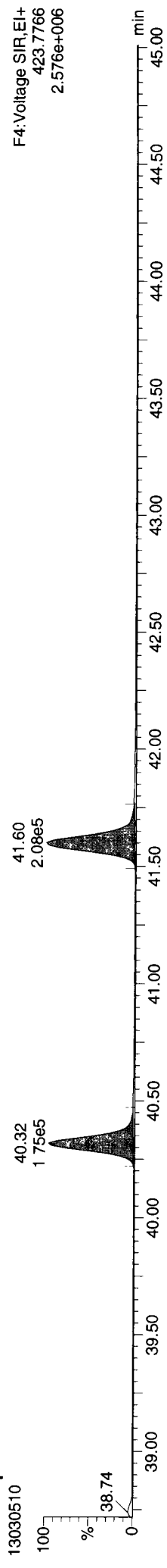
13C-1234678-HpCDD



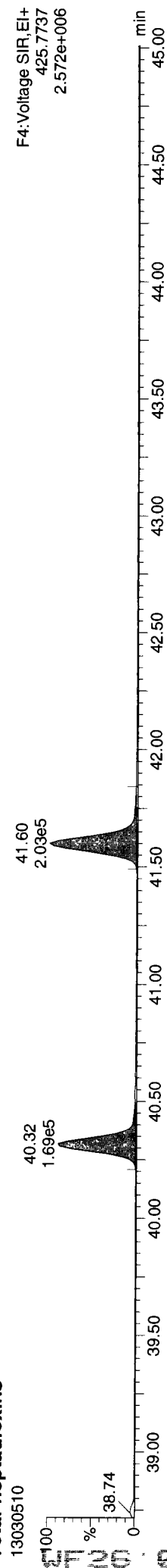
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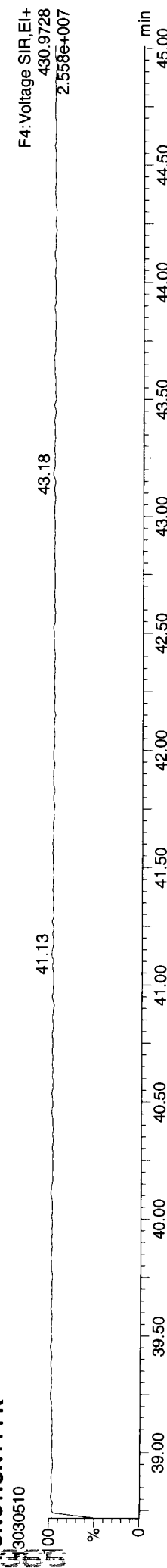
Total-heptadioxins



Total-heptadioxins



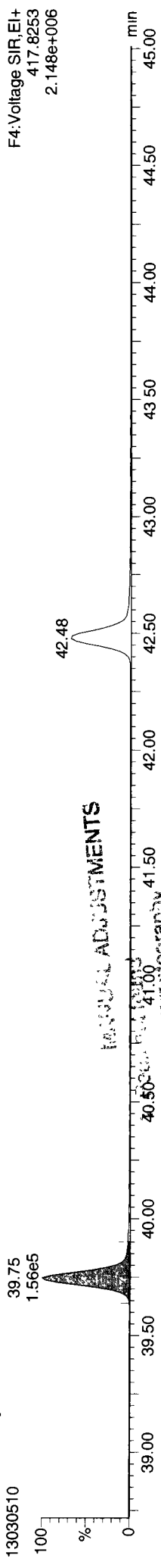
FUNCTION4 PFK



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

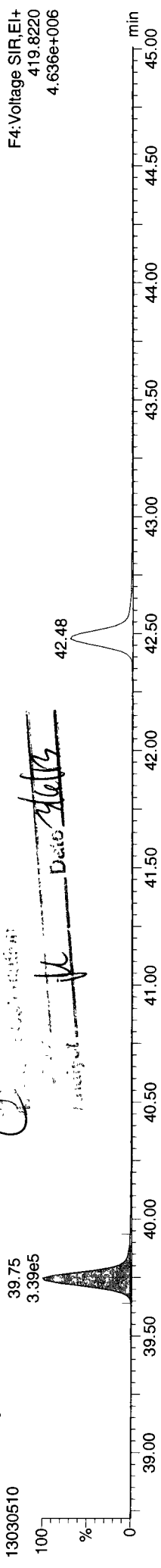
**ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk**

**13C-1234678-HpCDF**



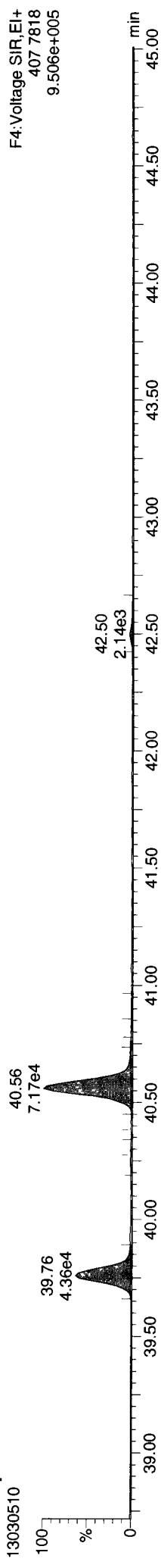
F4: Voltage SIR, EI+  
417.8253  
2.148e+006

**13C-1234678-HpCDF**



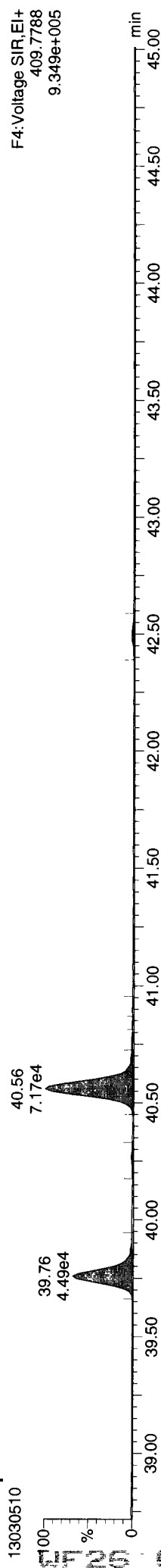
F4: Voltage SIR, EI+  
419.8220  
4.636e+006

**Total-heptafurans**



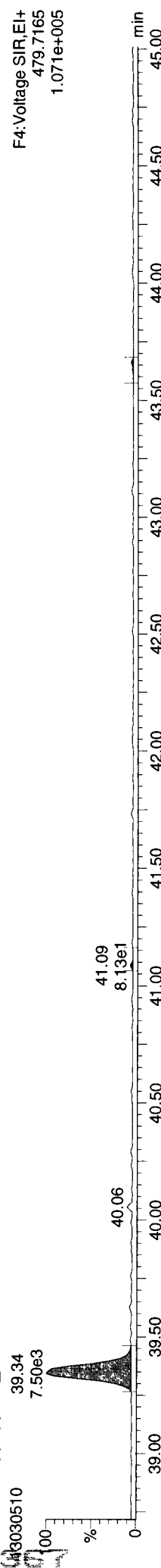
F4: Voltage SIR, EI+  
407.7818  
9.506e+005

**Total-heptafurans**



F4: Voltage SIR, EI+  
409.7788  
9.349e+005

**FUNCTION4 NCDPE**

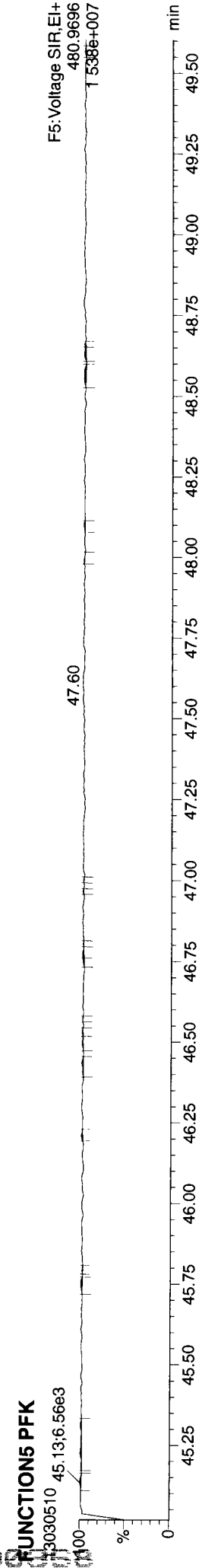
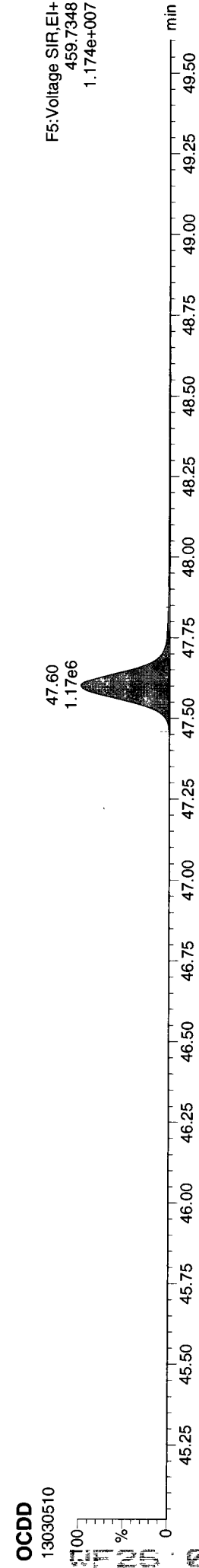
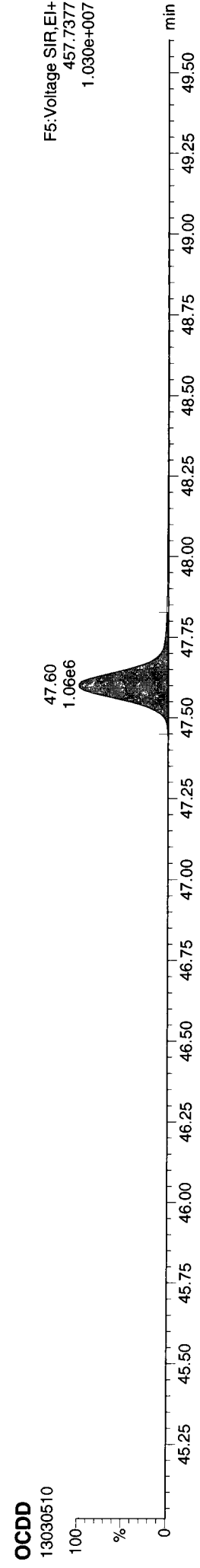
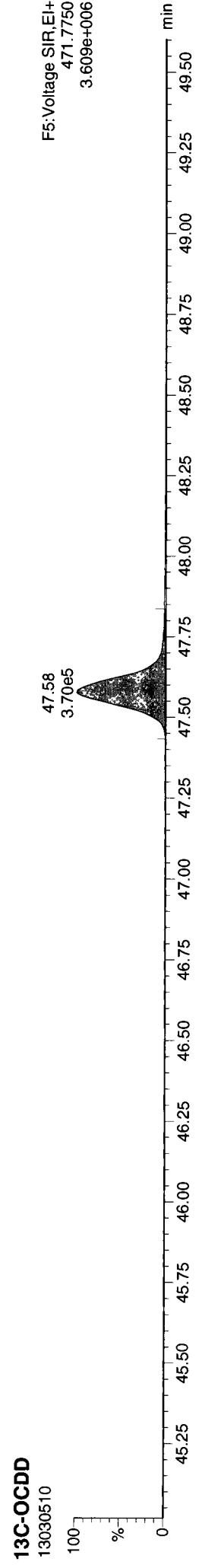
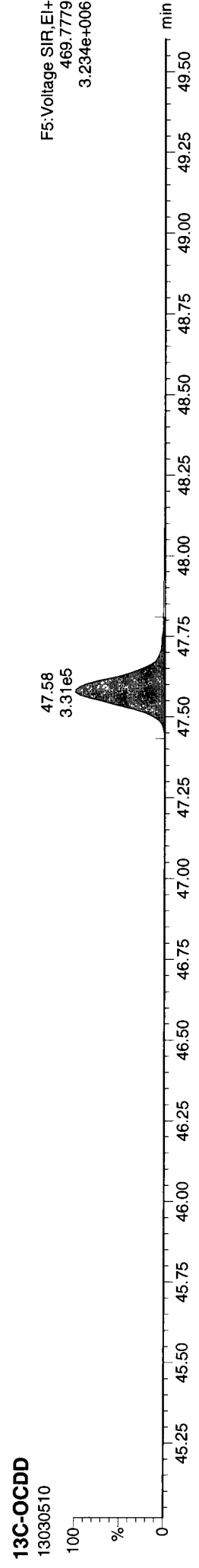


F4: Voltage SIR, EI+  
479.7165  
1.071e+005

WF26E 500001

Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

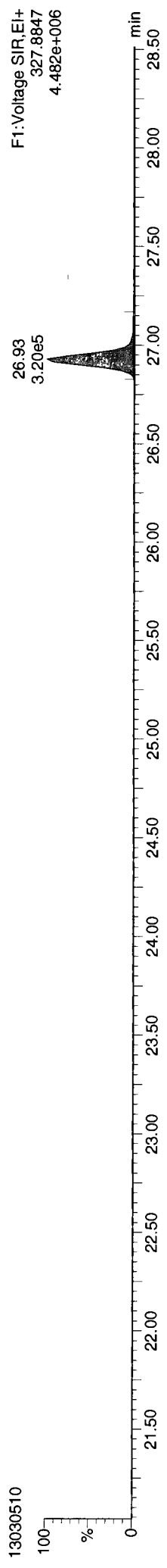


Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:14:21 Pacific Standard Time

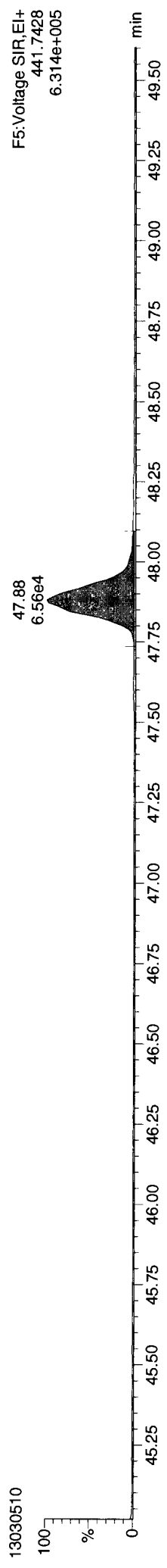
MassLynx 4.1 SCN 714

ID: WF26E, Name: 13030510, Date: 05-Mar-2013, Time: 19:30:46, Conditions: AUTOSPEC01, User: pk

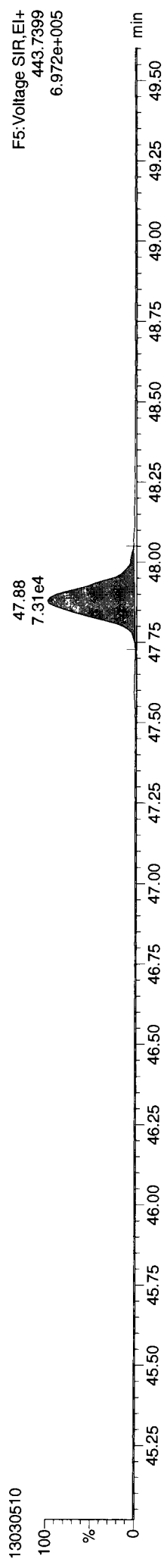
37CL-2378-TCDD



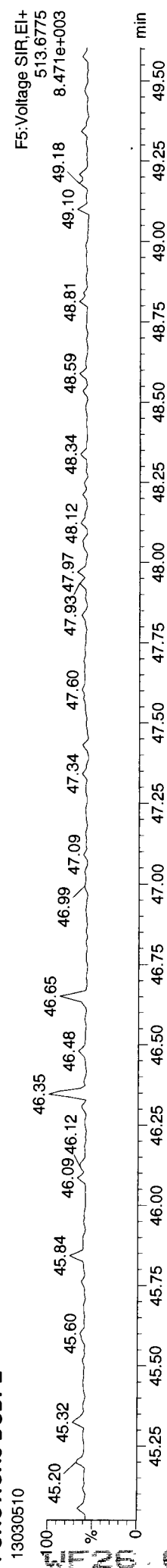
OCDF



OCDF



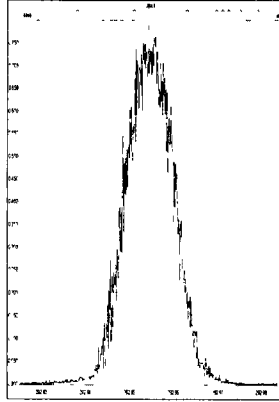
FUNCTION5 DCDPE



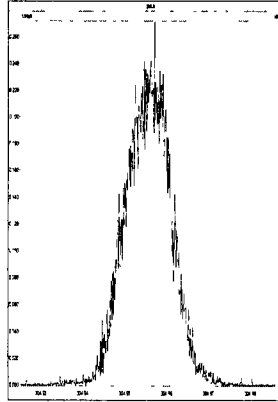
13030510

Printed: Tuesday, March 05, 2013 21:24:37 Pacific Standard Time

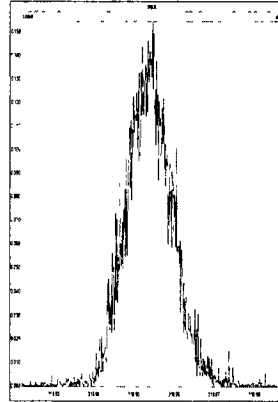
M 292.9824 R 13298



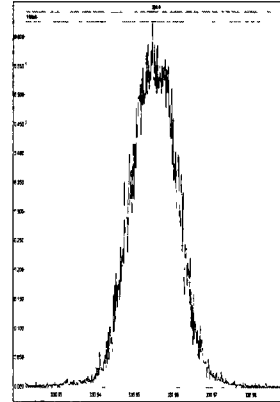
M 304.9824 R 13774



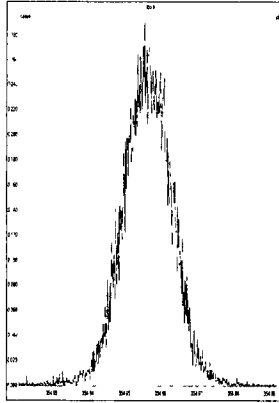
M 318.9792 R 13412



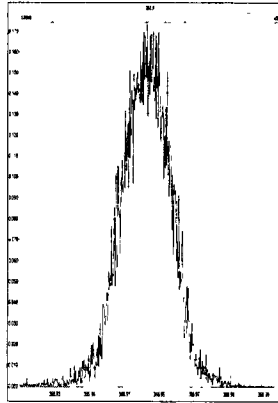
M 330.9792 R 12732



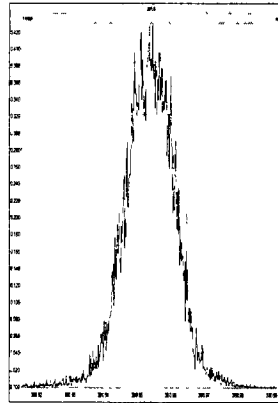
M 354.9792 R 12164



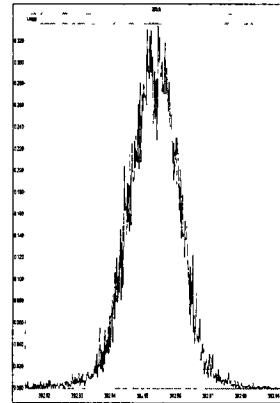
M 366.9792 R 12009



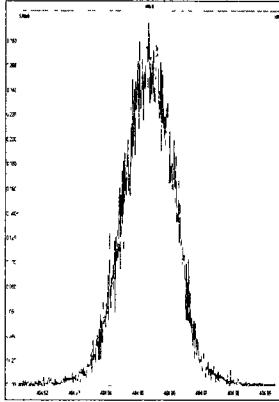
M 380.9760 R 11839



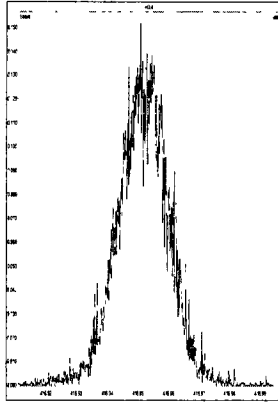
M 392.9760 R 11682



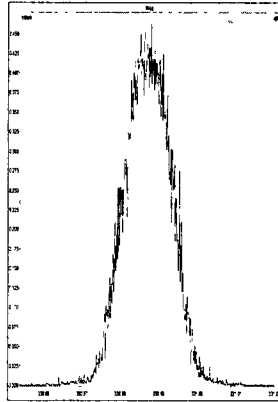
M 404.9760 R 11907



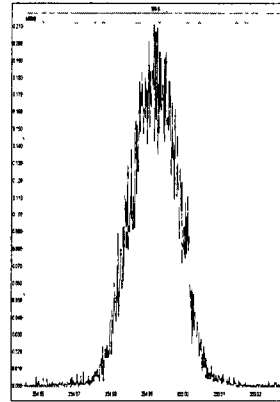
M 416.9760 R 12259



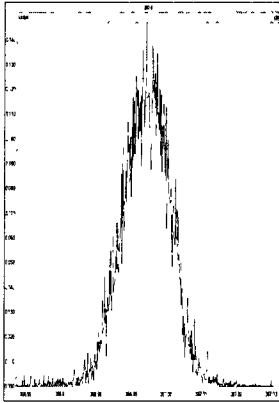
M 330.9792 R 13055



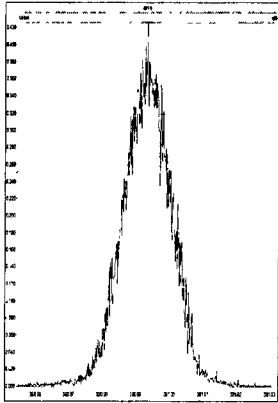
M 354.9792 R 12565



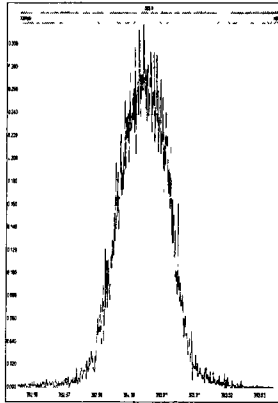
M 366.9792 R 13513



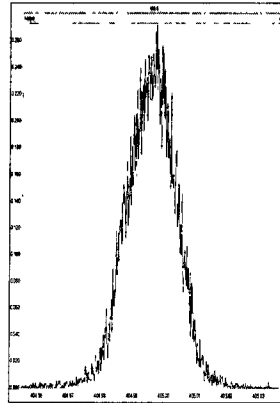
M 380.9760 R 12284



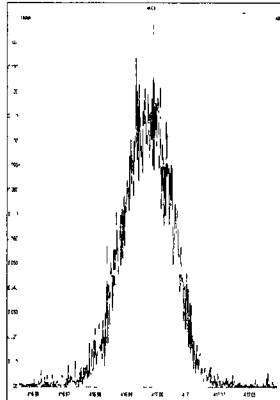
M 392.9760 R 12732



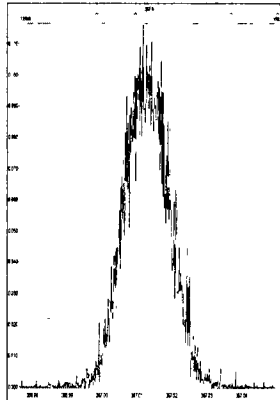
M 404.9760 R 12165



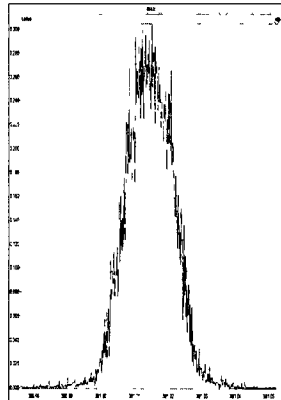
M 416.9760 R 12499



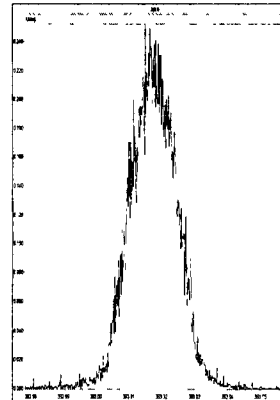
M 366.9792 R 13855



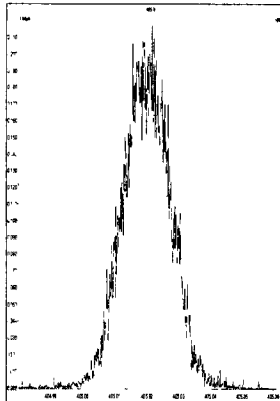
M 380.9760 R 13163



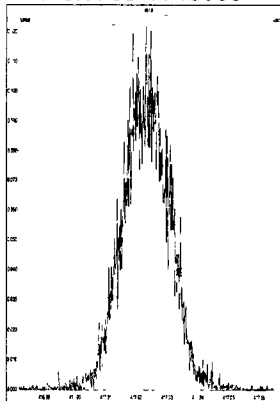
M 392.9760 R 12736



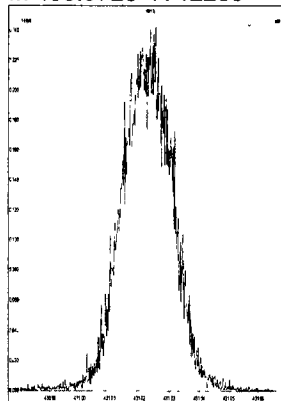
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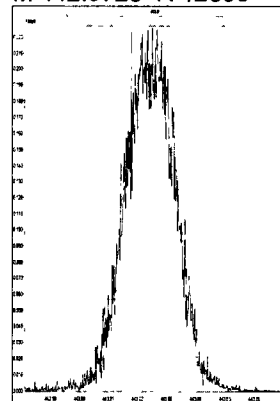
M 416.9760 R 13088



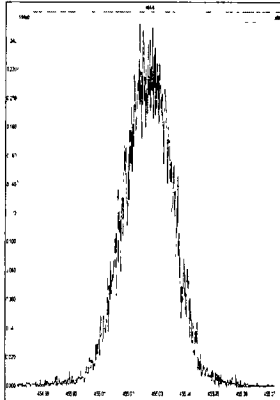
M 430.9728 R 12205



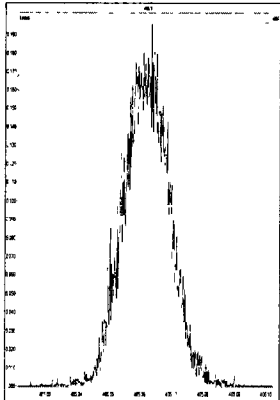
M 442.9728 R 12690



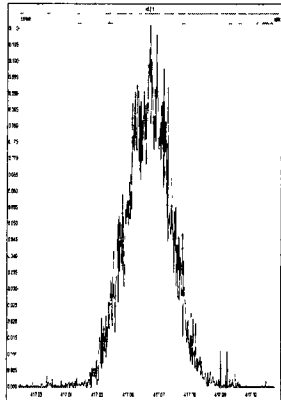
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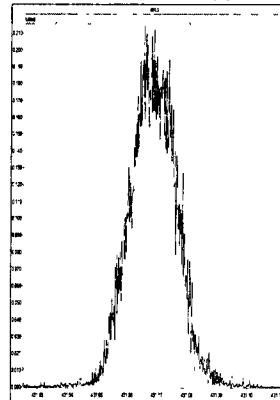
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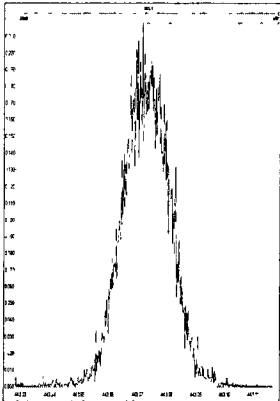
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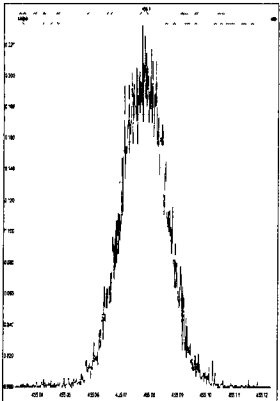
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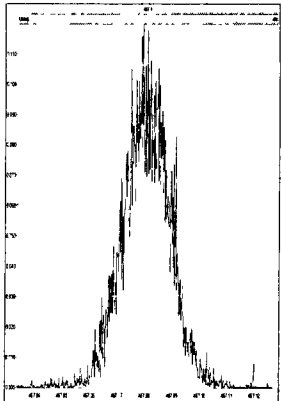
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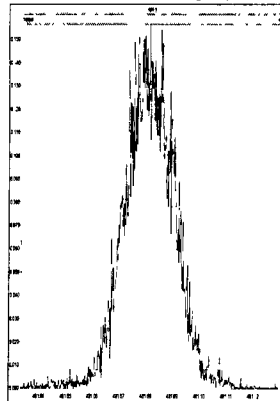
M 454.9728 R 12410



M 466.9728 R 13227

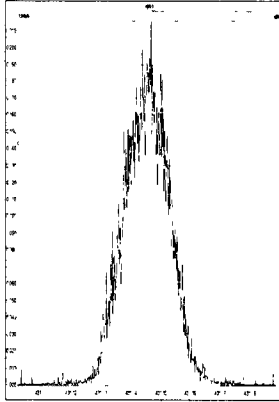


M 480.9696 R 13056

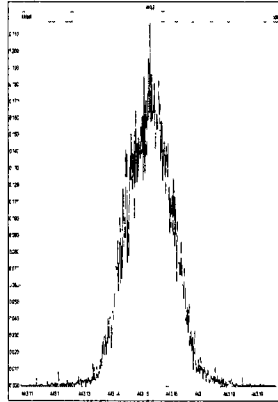


Printed: Tuesday, March 05, 2013 21:24:37 Pacific Standard Time

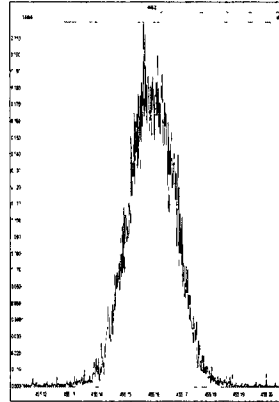
M 430.9728 R 13127



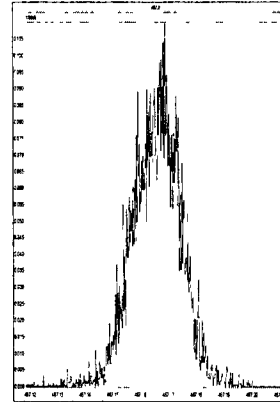
M 442.9728 R 12929



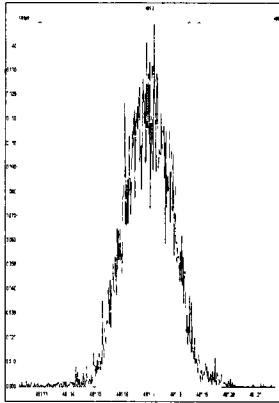
M 454.9728 R 12993



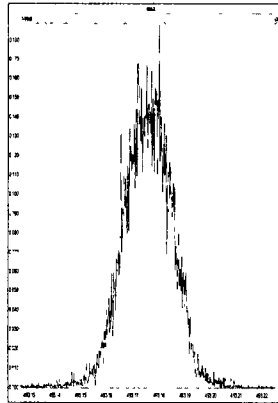
M 466.9728 R 12886



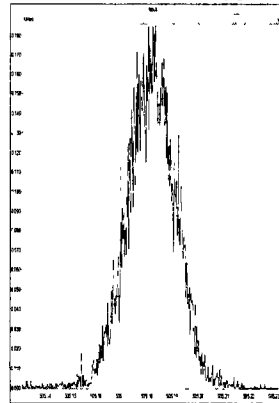
M 480.9696 R 12499



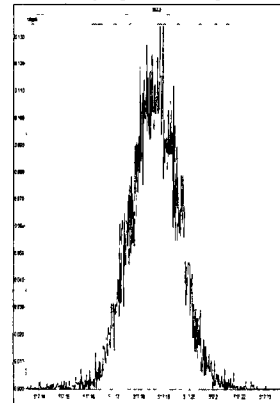
M 492.9696 R 12658



M 504.9696 R 12759



M 516.9697 R 12854





Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.287	1.001	5.80e4	7.99e4	0.921	0.726	0.770	419.9	NO	9.323	9.323
12378-PeCDF	30.432	1.000	3.30e5	2.23e5	0.912	1.482	1.550	941.4	NO	48.879	48.879
23478-PeCDF	31.780	1.001	3.38e5	2.14e5	0.943	1.576	1.550	962.2	NO	49.183	49.183
123478-HxCDF	35.463	1.001	2.56e5	2.08e5	1.101	1.230	1.240	950.3	NO	49.284	49.284
234678-HxCDF	36.559	1.001	2.66e5	2.11e5	1.073	1.260	1.240	920.9	NO	49.607	49.607
123678-HxCDF	35.605	1.000	2.75e5	2.36e5	1.056	1.167	1.240	998.1	NO	49.344	49.344
123789-HxCDF	37.688	1.001	2.09e5	1.79e5	1.017	1.169	1.240	786.6	NO	49.571	49.571
1234678-HpCDF	39.760	1.001	2.32e5	2.35e5	1.238	0.985	1.050	959.3	NO	50.938	50.938
1234789-HpCDF	42.500	1.000	1.78e5	1.79e5	1.224	0.993	1.050	629.7	NO	51.422	51.422
OCDF	47.882	1.006	2.98e5	3.41e5	1.162	0.875	0.890	1812.9	NO	96.032	96.032
2378-TCDD	26.930	1.001	4.68e4	5.88e4	1.106	0.796	0.770	314.6	NO	9.228	9.228
12378-PeCDD	32.032	1.000	2.36e5	1.53e5	1.001	1.537	1.550	1108.7	NO	49.479	49.479
123478-HxCDD	36.690	1.001	1.95e5	1.52e5	0.978	1.286	1.240	893.4	NO	49.446	49.446
123678-HxCDD	36.811	1.000	2.02e5	1.62e5	0.929	1.247	1.240	839.7	NO	50.240	50.240
123789-HxCDD	37.238	1.012	1.92e5	1.49e5	0.904	1.289	1.240	807.1	NO	50.365	50.365
1234678-HpCDD	41.601	1.000	1.59e5	1.56e5	1.029	1.022	1.050	829.3	NO	48.248	48.248
OCDD	47.604	1.001	2.59e5	2.96e5	1.011	0.876	0.890	1086.2	NO	95.978	95.978
13C-2378-TCDF	26.272	1.007	6.88e5	9.18e5	1.522	0.749	0.770	2783.2	NO	93.080	93.080
13C-12378-PeCDF	30.421	1.166	7.64e5	4.76e5	1.185	1.606	1.550	1308.1	NO	92.258	92.258
13C-23478-PeCDF	31.758	1.217	7.31e5	4.60e5	1.136	1.588	1.550	1247.6	NO	92.458	92.458
13C-123478-HxCDF	35.441	0.952	2.95e5	5.61e5	1.284	0.527	0.510	805.2	NO	95.463	95.463
13C-123678-HxCDF	35.595	0.956	3.33e5	6.49e5	1.383	0.513	0.510	854.0	NO	101.664	101.664
13C-234678-HxCDF	36.537	0.981	3.05e5	5.92e5	1.283	0.515	0.510	797.4	NO	100.085	100.085
13C-123789-HxCDF	37.666	1.012	2.65e5	5.04e5	1.099	0.525	0.510	718.0	NO	100.117	100.117
13C-1234678-HpCDF	39.738	1.067	2.26e5	5.15e5	1.070	0.439	0.440	830.4	NO	99.211	99.211
13C-1234789-HpCDF	42.478	1.141	1.76e5	3.91e5	0.774	0.450	0.440	582.7	NO	104.990	104.990
13C-1234-TCDD	26.093	0.000	4.91e5	6.43e5	1.000	0.763	0.770	1850.9	NO	100.000	100.000
13C-2378-TCDD	26.900	1.031	4.45e5	5.90e5	0.943	0.754	0.770	1587.5	NO	96.837	96.837
13C-12378-PeCDD	32.021	1.227	4.84e5	3.02e5	0.715	1.601	1.550	2975.7	NO	96.904	96.904
13C-123478-HxCDD	36.669	0.985	4.01e5	3.17e5	1.032	1.266	1.240	2255.9	NO	99.617	99.617
13C-123678-HxCDD	36.800	0.988	4.37e5	3.44e5	1.076	1.269	1.240	2338.7	NO	103.952	103.952
13C-1234678-HpCDD	41.579	1.117	3.25e5	3.10e5	0.838	1.049	1.050	1610.8	NO	108.643	108.643
13C-OCDD	47.576	1.278	5.41e5	6.03e5	0.675	0.898	0.890	1523.7	NO	242.658	242.658

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
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 Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

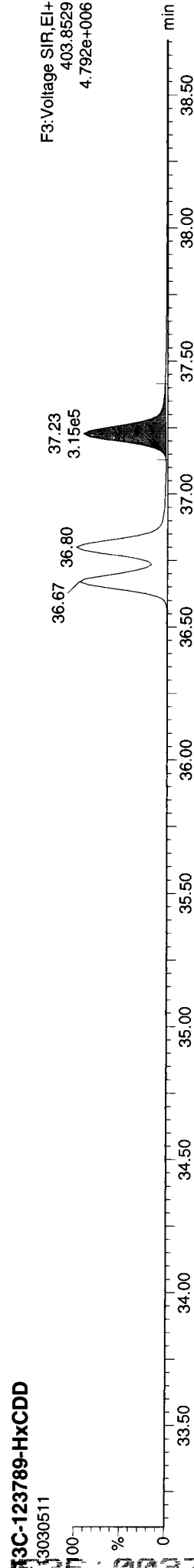
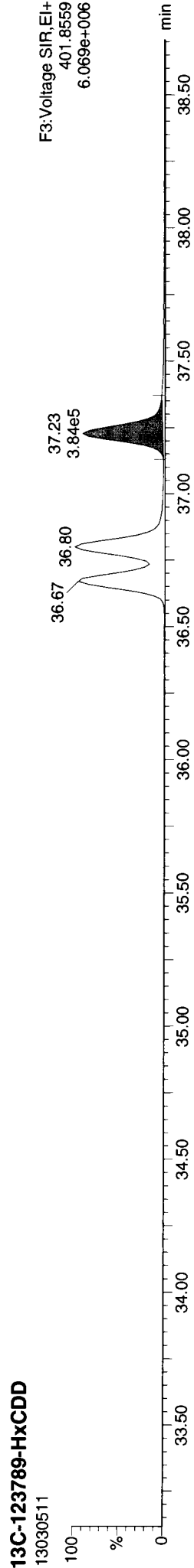
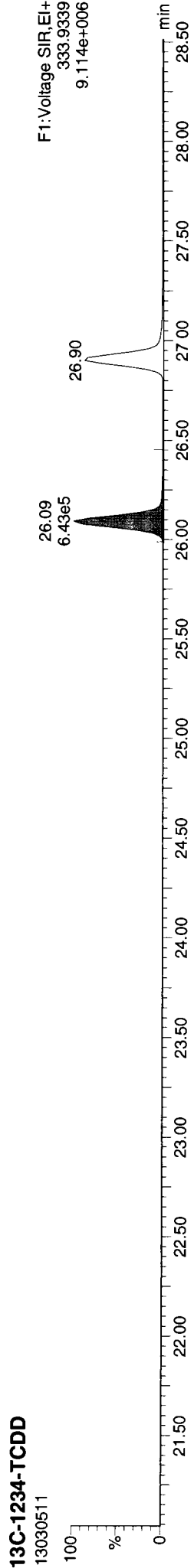
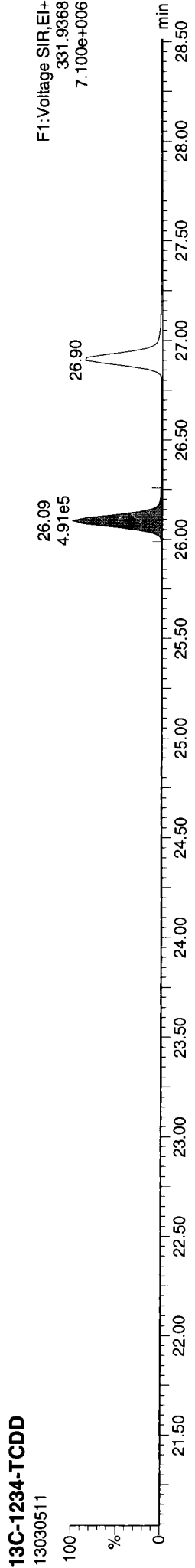
ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

34	13C-123789-HxCDD	37.228	0.000	3.84e5	3.15e5	1.000	1.219	1.240	2117.5	NO	100.000
35	Total-tetrafurans			1.89e5		0.921					29.568
36	Total-penta 1			5.03e5							74.322
37	Total-pentafurans			1.01e6		0.927					148.412
38	Total-hexafurans			1.34e6		1.062					263.160
39	Total-heptafurans			4.10e5		1.231					102.400
40	Total-Furans			3.75e6		1.065					713.952
41	Total-tetraioxins			2.67e5		1.106					53.316
42	Total-pentadioxins			8.41e5		1.001					176.060
43	Total-hexadioxins			8.66e5		0.937					221.324
44	Total-heptadioxins			3.52e5		1.029					105.812
45	Total-Dioxins			2.59e6		0.994					652.703
46	Total-TEQ			6.34e6							1366.655
47	37CL-2378-TCDD	26.930	1.032	1.13e5		1.051			728.2		9.502
48	FUNCTION1 PFK			0.00e0							0.000
49	FUNCTION2 PFK			1.51e5							0.000
50	FUNCTION3 PFK			4.27e5							0.000
51	FUNCTION4 PFK			8.74e4							0.000
52	FUNCTION5 PFK			9.37e4							0.000
53	FUNCTION1 HXCDPE			1.70e2							0.000
54	FUNCTION1 HPCDPE			2.93e3							0.000
55	FUNCTION2 HPCDPE			1.59e3							0.000
56	FUNCTION3 OCDPE			1.87e2							0.000
57	FUNCTION4 NCDPE			8.01e1							0.000
58	FUNCTION5 DCDPE			0.00e0							0.000

Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethdB\DiDioxin130304.mdb 04 Mar 2013 13:54:03  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

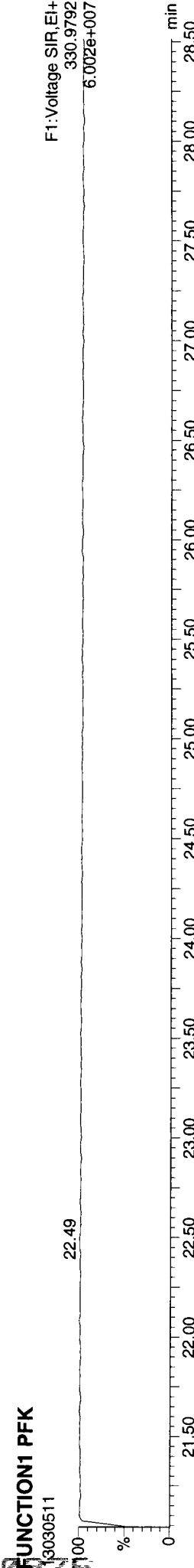
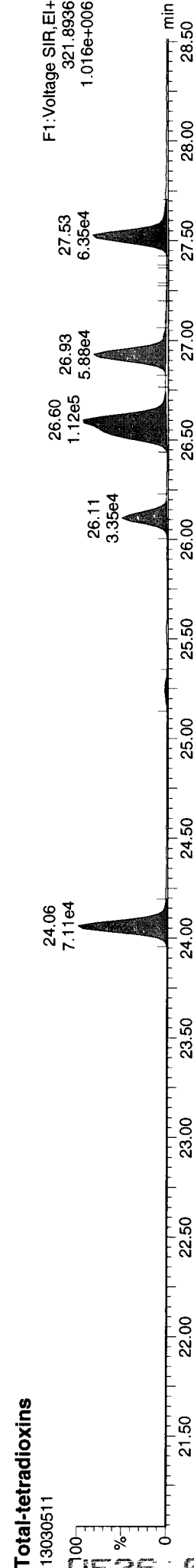
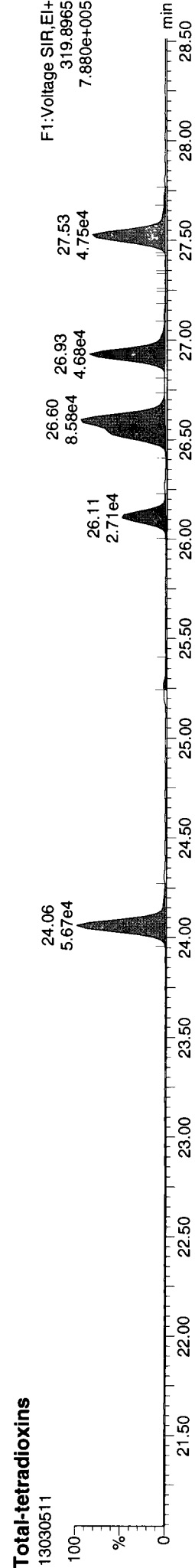
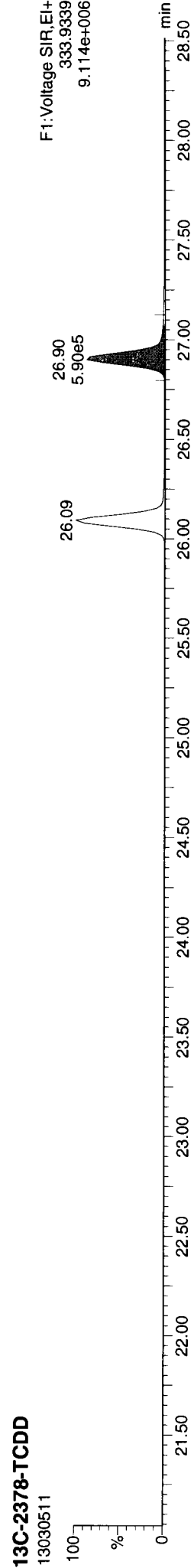
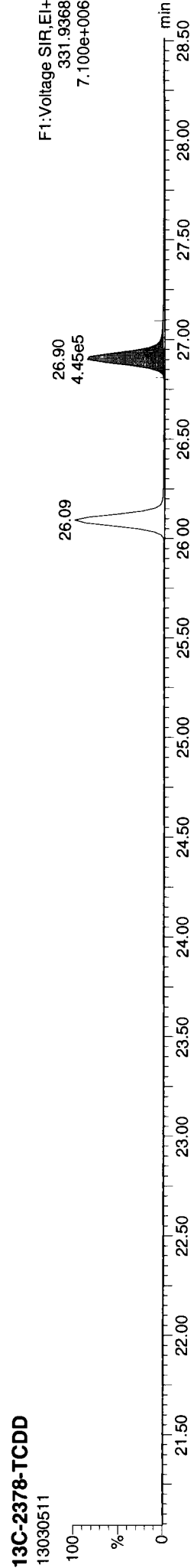
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13030511

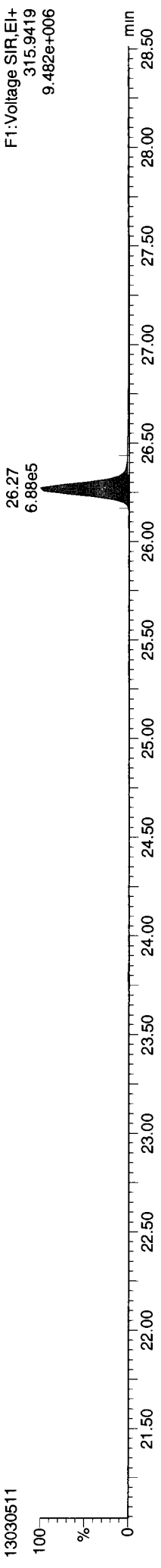
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 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

**ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk**

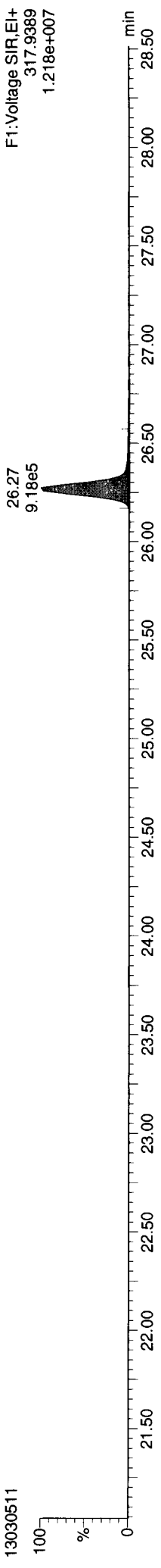


ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

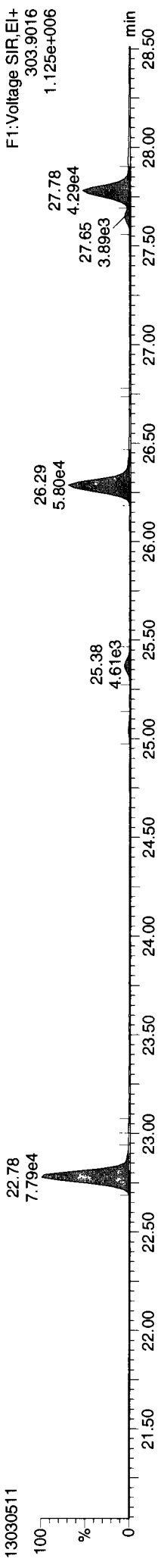
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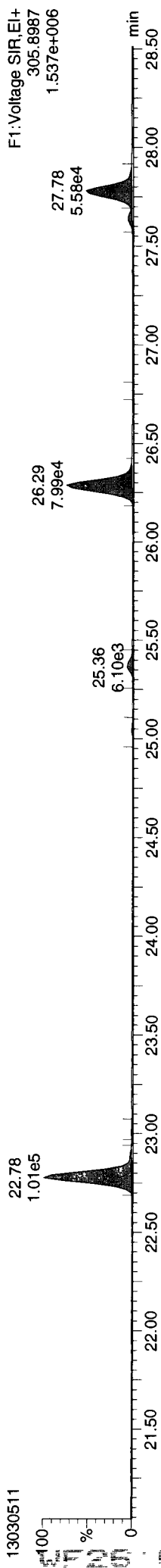
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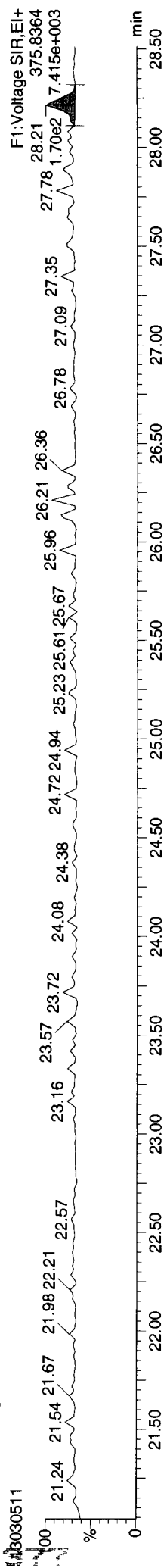
Total-tetrafurans



Total-tetrafurans



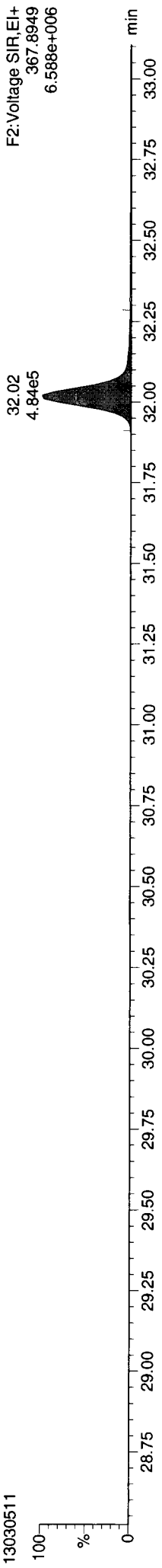
FUNCTION1 HXCDPE



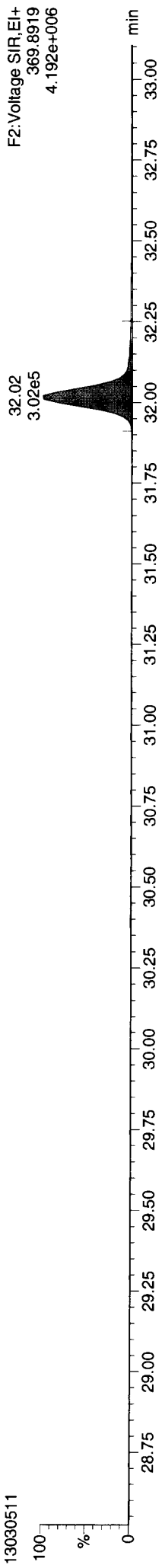
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 Dataset: P:\DIOXIN8290.PROV130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
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**ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk**

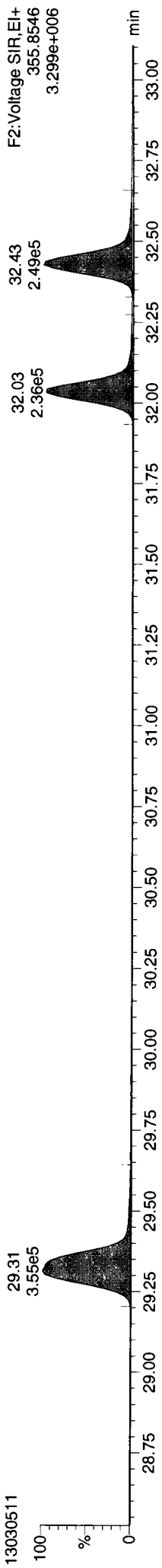
**13C-12378-PeCDD**  
 13030511



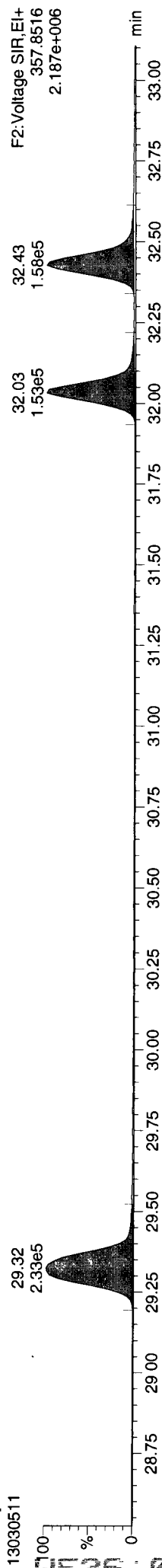
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 13030511



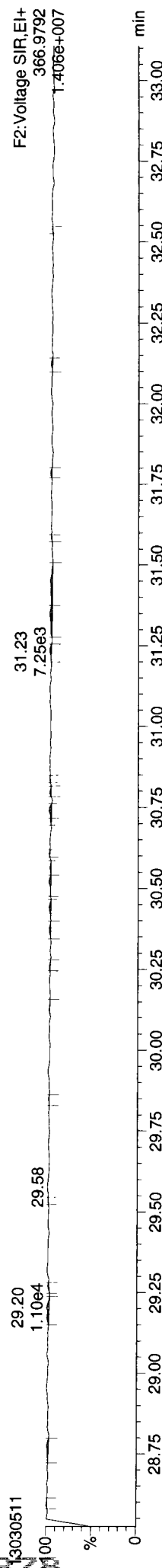
**Total-pentadioxins**  
 13030511



**Total-pentadioxins**  
 13030511



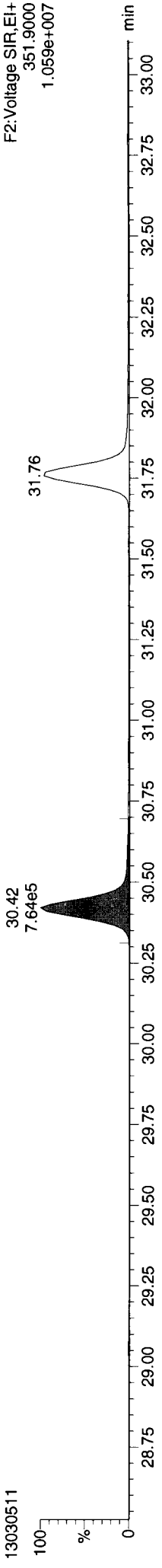
**FUNCTION2 PFK**  
 13030511



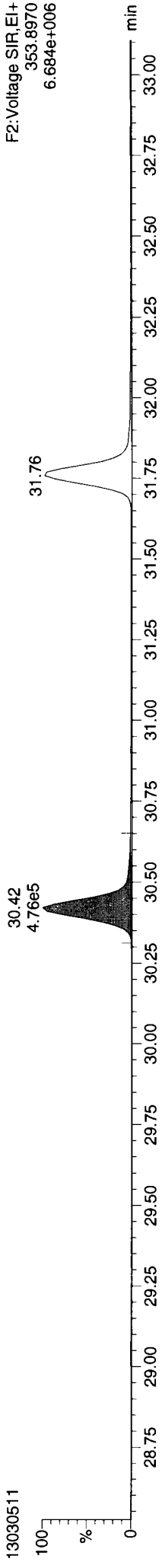
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 Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

**ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk**

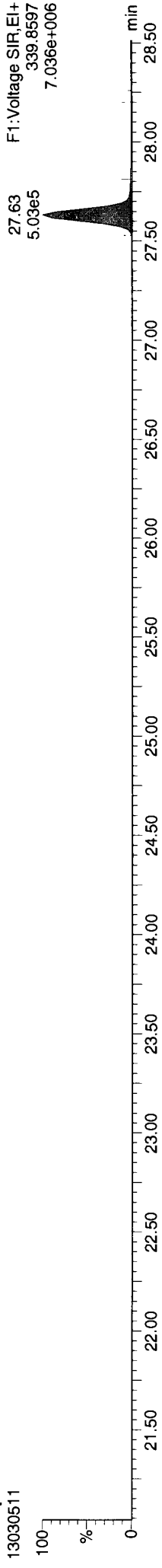
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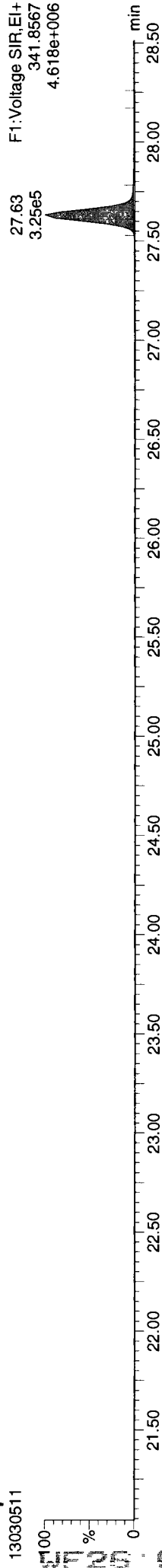
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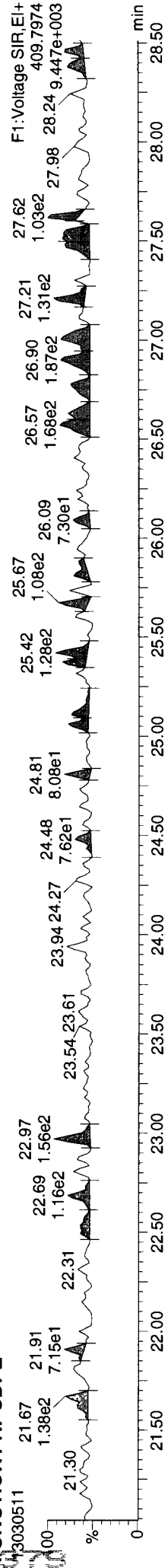
**Total-penta1**



**Total-penta1**



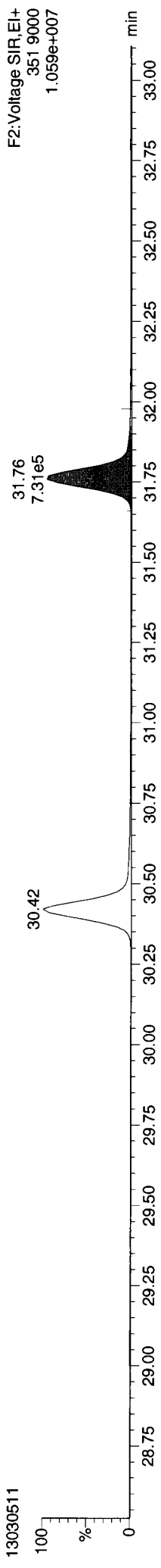
**FUNCTION1 HPCDPE**



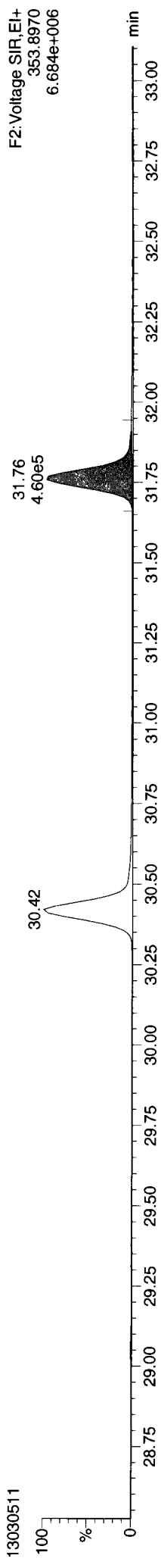
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 Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

**ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk**

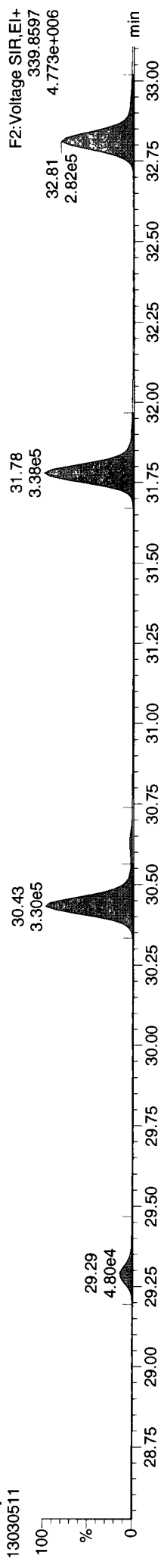
**13C-23478-PeCDF**



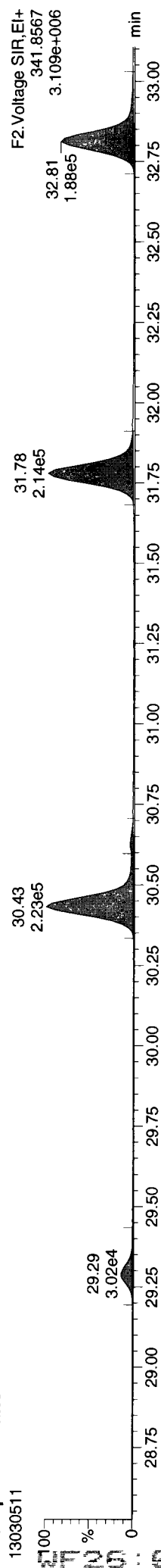
**13C-23478-PeCDF**



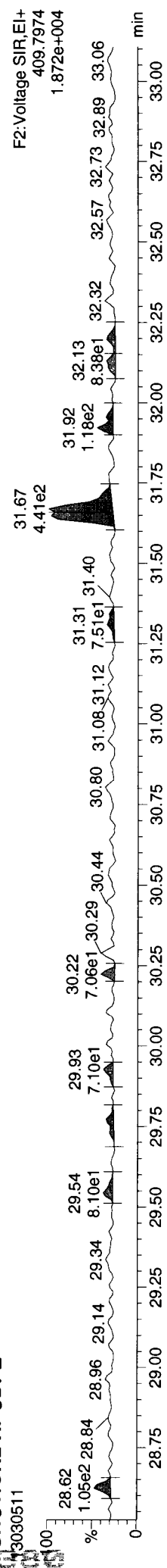
**Total-pentafurans**



**Total-pentafurans**



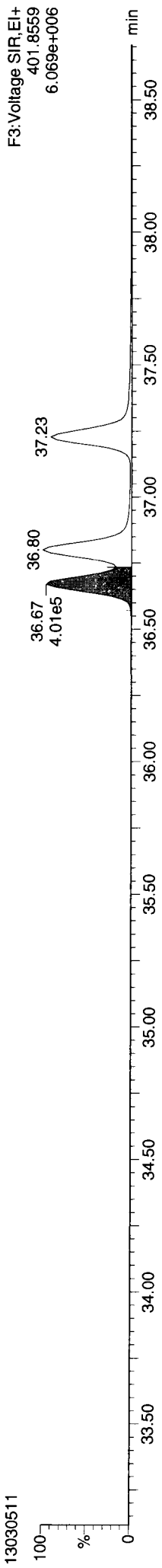
**FUNCTION2 HPCDFE**



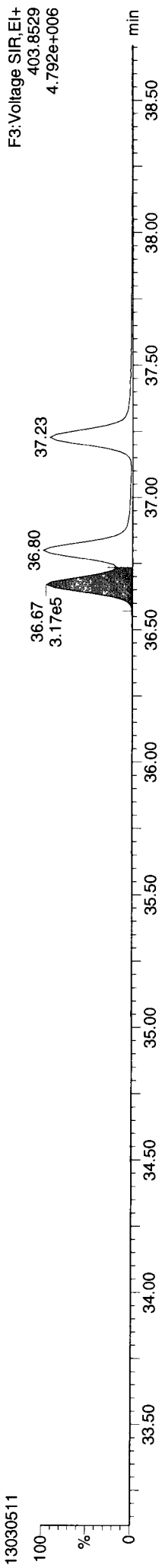


ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

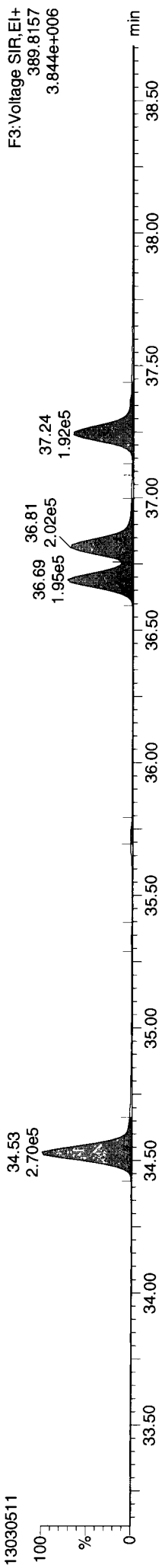
**13C-123478-HxCDD**



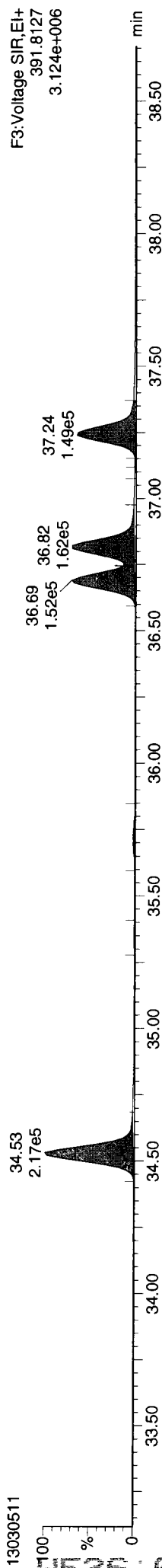
**13C-123478-HxCDD**



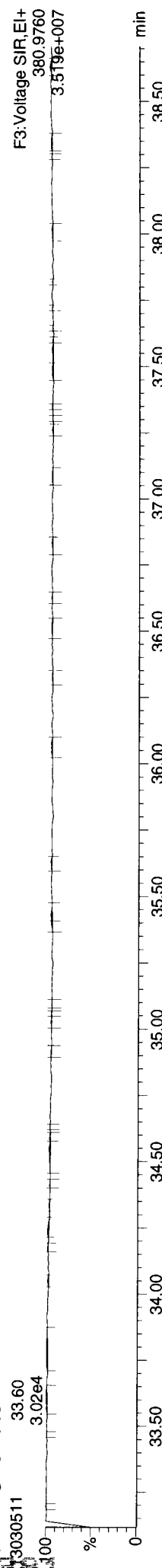
**Total-hexadioxins**



**Total-hexadioxins**

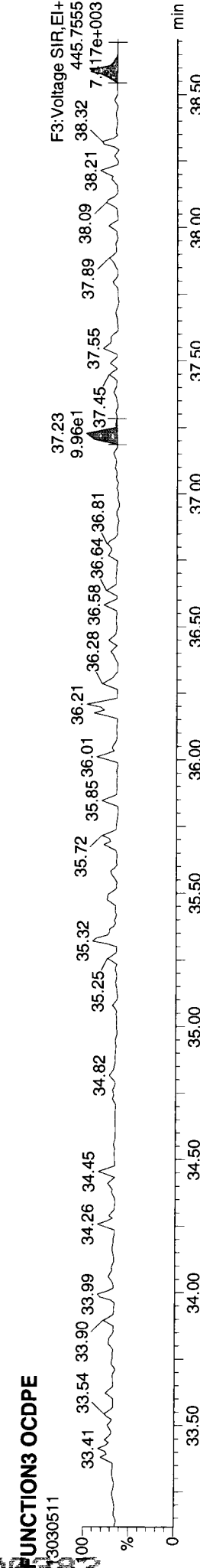
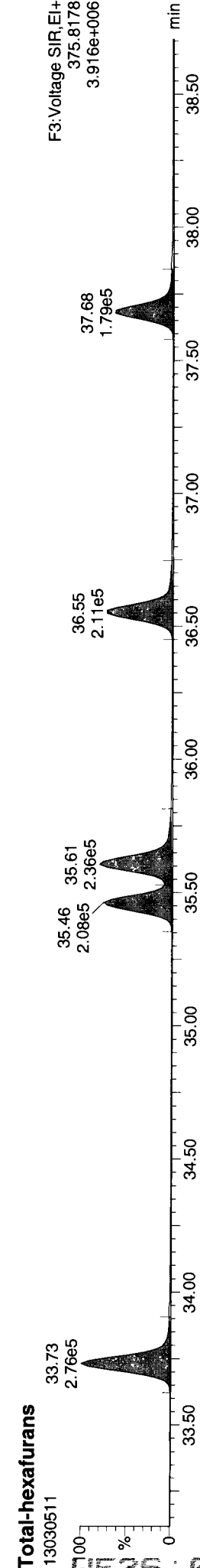
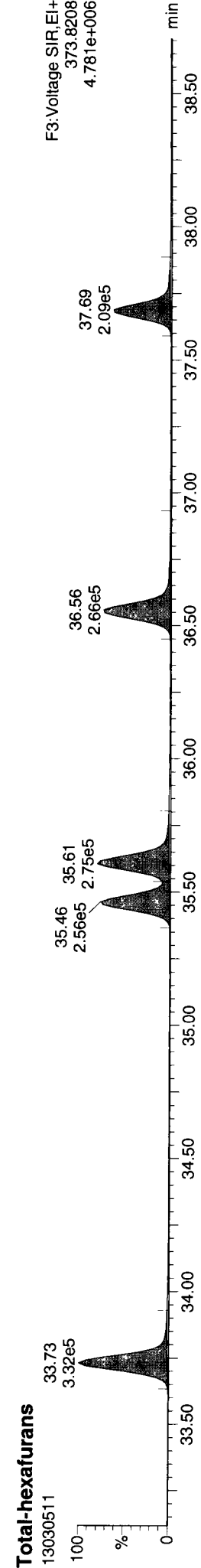
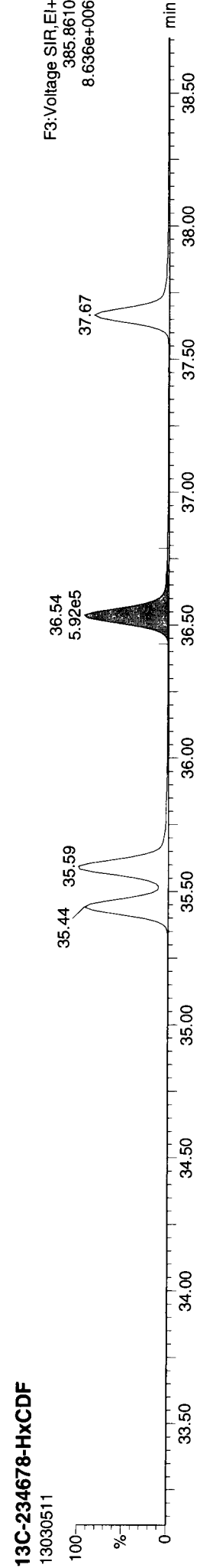
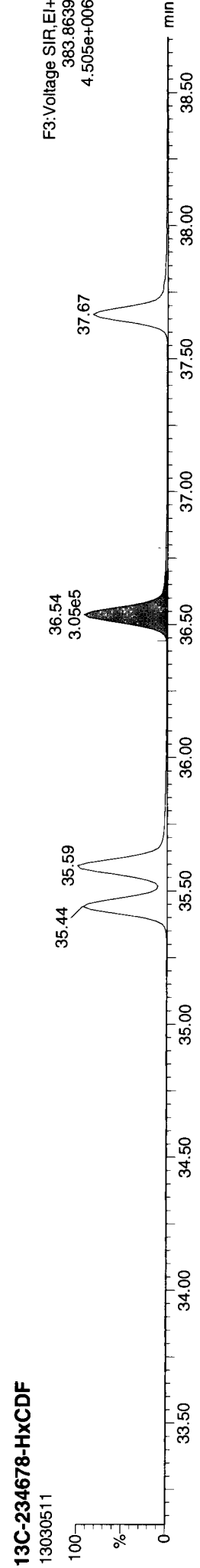


**FUNCTION3 PFK**



**Quantify Sample Report** **MassLynx 4.1 SCN 714**  
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 Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

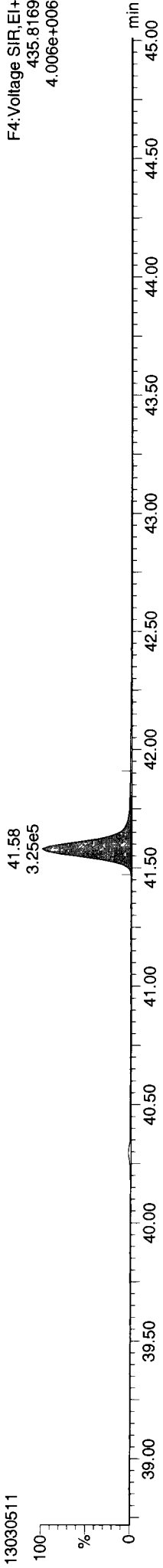
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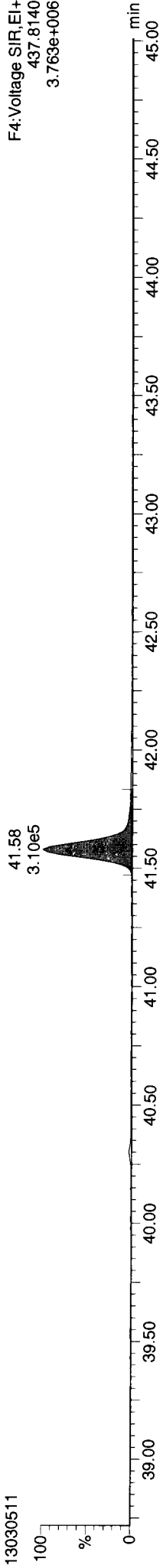
Quantify Sample Report    MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

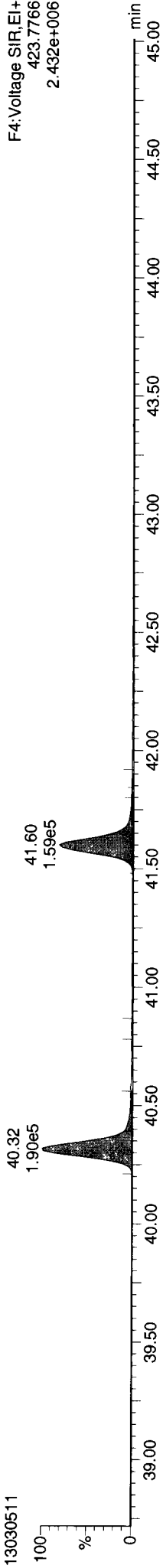
**13C-1234678-HpCDD**



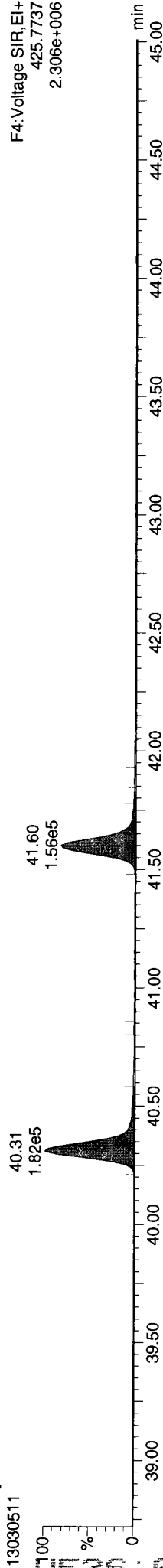
**13C-1234678-HpCDD**



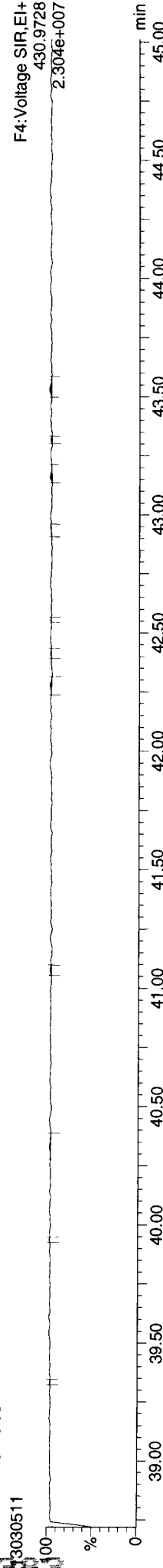
**Total-heptadioxins**



**Total-heptadioxins**



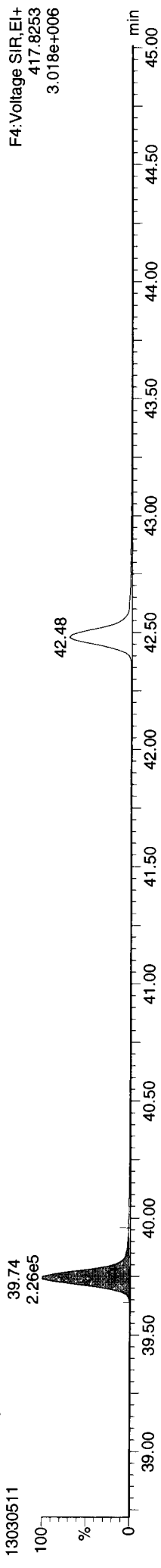
**FUNCTION4 PFK**



**Quantify Sample Report** MassLynx 4.1 SCN 714  
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Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

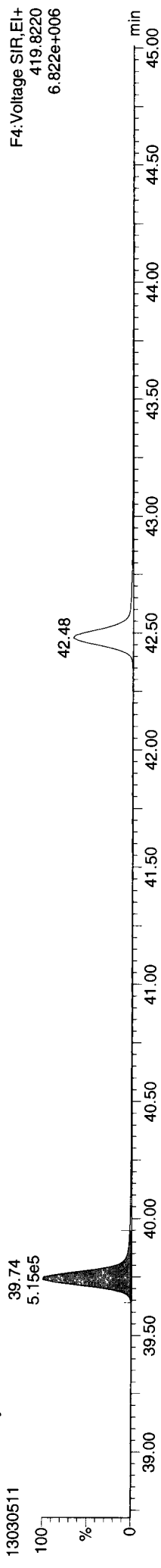
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**13C-1234678-HpCDF**



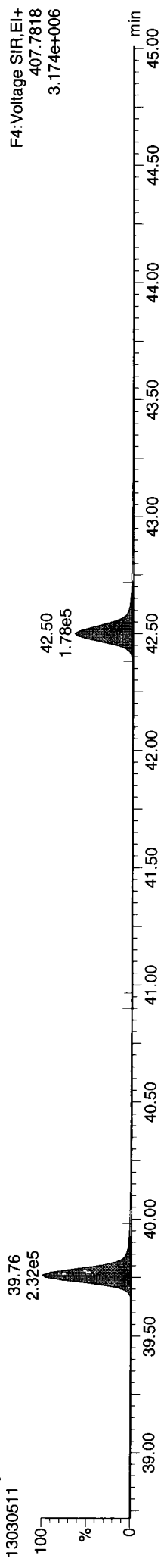
F4: Voltage SIR, EI+  
417.8253  
3.018e+006

**13C-1234678-HpCDF**



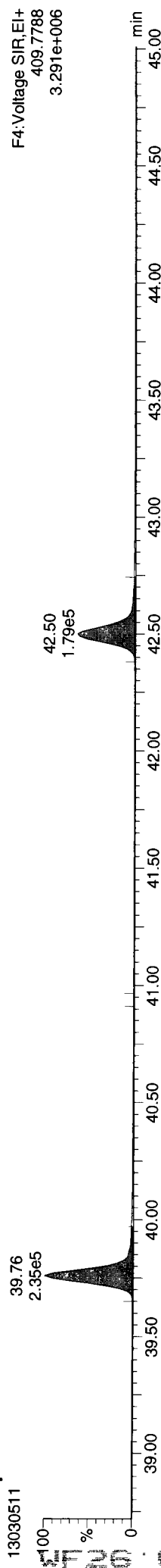
F4: Voltage SIR, EI+  
419.8220  
6.822e+006

**Total-heptafulurans**



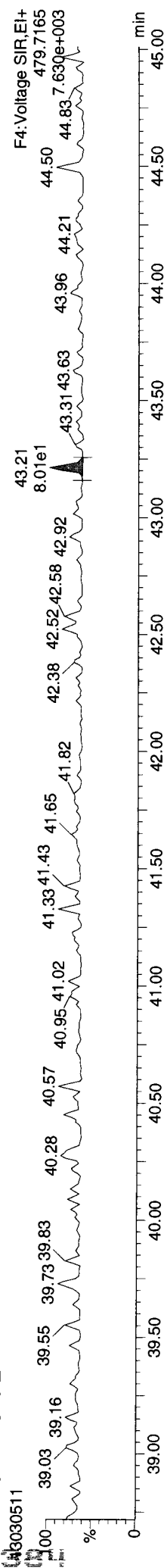
F4: Voltage SIR, EI+  
407.7818  
3.174e+006

**Total-heptafulurans**



F4: Voltage SIR, EI+  
409.7788  
3.291e+006

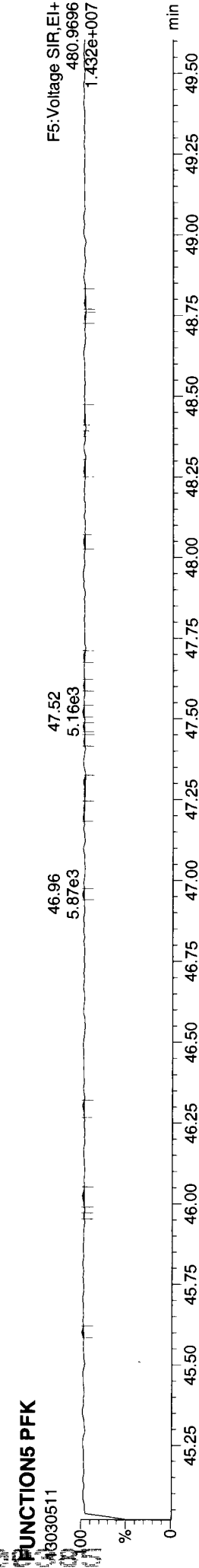
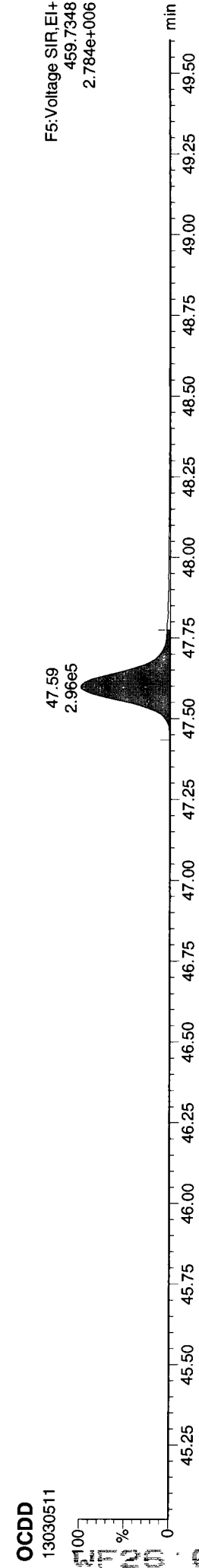
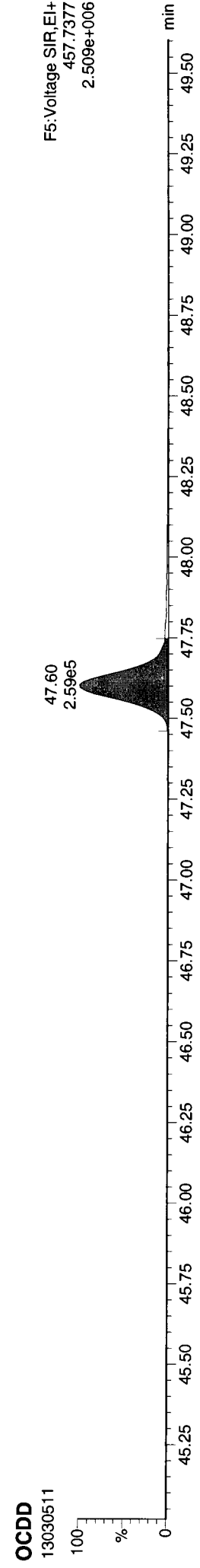
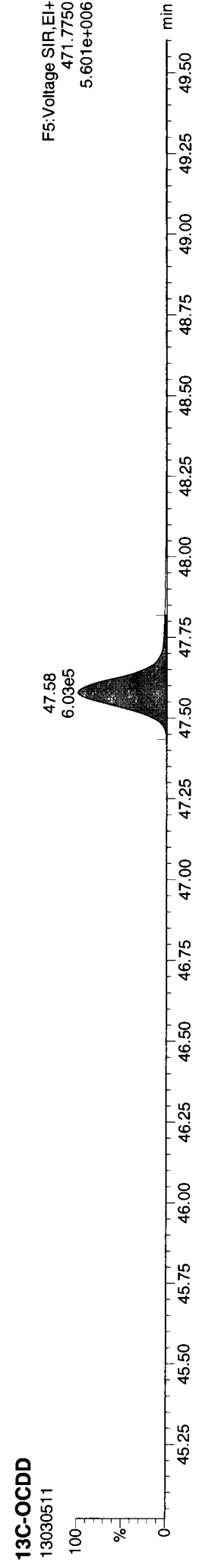
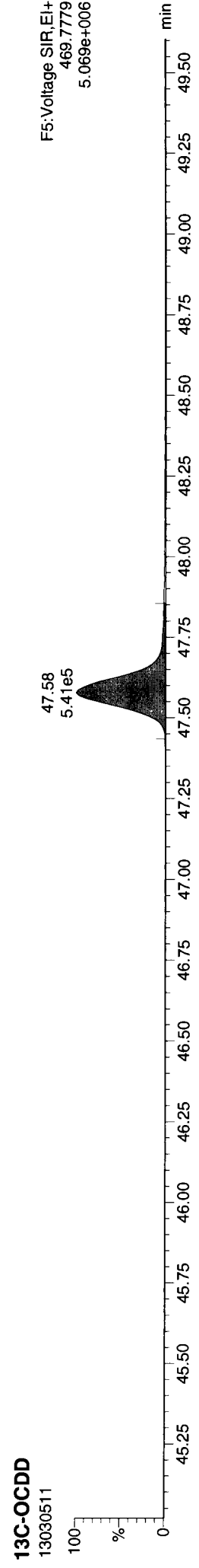
**FUNCTION4 NCDPE**



F4: Voltage SIR, EI+  
479.7165  
44.83

**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

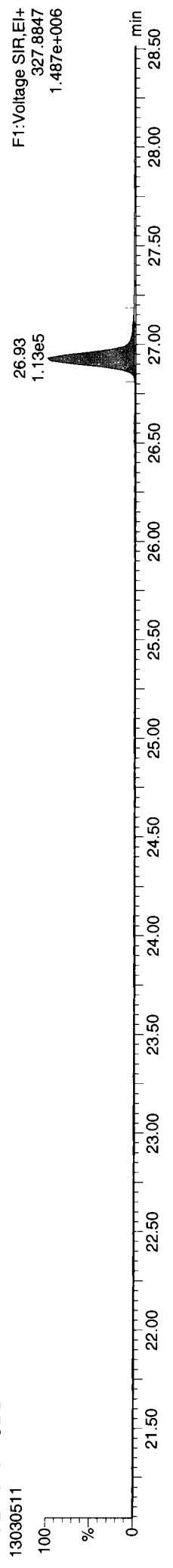
**ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk**



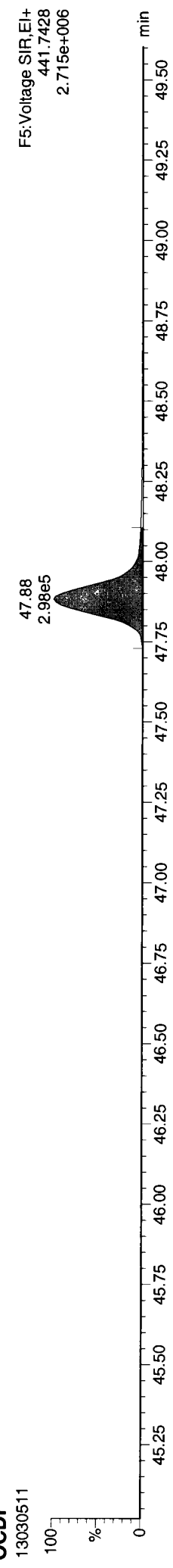
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA1.qld  
Last Altered: Wednesday, March 06, 2013 10:10:32 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 10:12:04 Pacific Standard Time

ID: CS3, Name: 13030511, Date: 05-Mar-2013, Time: 20:23:38, Conditions: AUTOSPEC01, User: pk

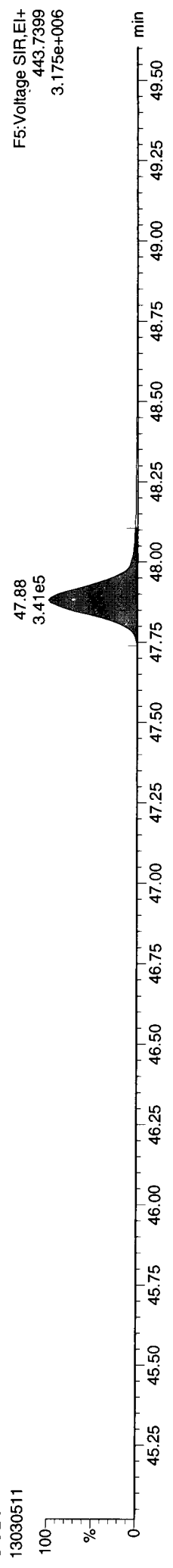
**37CL-2378-TCDD**  
13030511



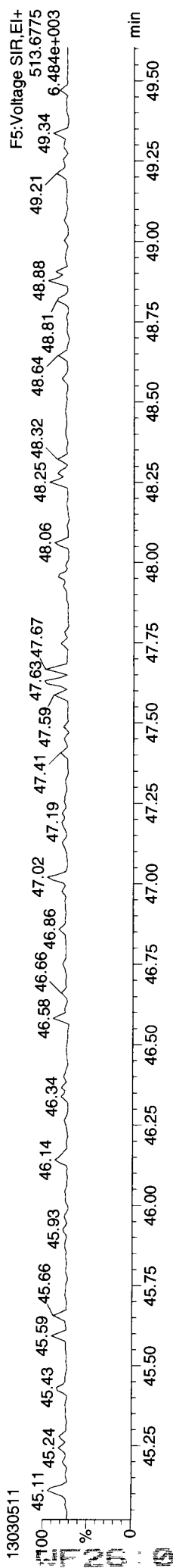
**OCDF**  
13030511



**OCDF**  
13030511



**FUNCTION5 DCDPE**  
13030511



100  
%  
0

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26F  
 Lab.File ID: 13030512  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.94	0.159	0.107	
12378-PeCDD	356/358	32.04	0.641	0.561	
123478-HxCDD	390/392	36.68	1.52		
123678-HxCDD	390/392	36.82	4.12		
123789-HxCDD	390/392	37.25	2.49		
1234678-HpCDD	424/426	41.60	95.4		
OCDD	458/460	47.60	923		
2378-TCDF	304/306	0.00			0.072
12378-PeCDF	340/342	0.00			0.12
23478-PeCDF	340/342	31.78	0.406	0.371	
123478-HxCDF	374/376	35.47	1.70		
234678-HxCDF	374/376	36.53	1.10		
123678-HxCDF	374/376	35.62	0.686		
123789-HxCDF	374/376	37.69	0.217	0.186	
1234678-HpCDF	408/410	39.76	20.7		
1234789-HpCDF	408/410	42.51	1.13	0.946	
OCDF	442/444	47.88	52.2		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

*Mr 2/6/13*

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

Compound	Area	Height	Retention	Abundance	Response	Integration	Yield	Yield Error	Yield %	Yield Error %	Yield % Error
2378-TCDF	31.780	1.000	1.63e3	1.31e3	0.943	1.245	13.9	2.42e4	1.47e4	YES	0.371
12378-PeCDF	35.474	1.001	6.05e3	4.81e3	1.101	1.258	62.9	8.46e4	7.44e4	NO	1.697
23478-HxCDF	36.526	1.000	3.63e3	2.84e3	1.073	1.280	27.8	3.74e4	3.05e4	NO	1.098
234678-HxCDF	35.617	1.001	2.62e3	2.01e3	1.056	1.302	30.4	4.08e4	2.69e4	NO	0.686
123789-HxCDF	37.688	1.001	7.27e2	4.50e2	1.017	1.614	7.0	9.42e3	7.74e3	YES	0.186
1234678-HpCDF	39.760	1.000	5.83e4	5.90e4	1.238	0.988	547.4	8.77e5	8.42e5	NO	20.732
1234789-HpCDF	42.511	1.001	2.10e3	2.81e3	1.224	0.748	14.0	2.24e4	3.91e4	YES	0.946
OCDF	47.882	1.006	9.46e4	1.07e5	1.162	0.881	550.0	8.66e5	9.40e5	NO	52.225
2378-TCDD	26.945	1.001	3.37e2	8.14e2	1.106	0.414	6.3	6.13e3	1.06e4	YES	0.107
12378-PeCDD	32.043	1.001	1.75e3	1.54e3	1.001	1.138	18.1	2.47e4	2.10e4	YES	0.561
123478-HxCDD	36.680	1.000	3.79e3	3.41e3	0.978	1.112	14.6	5.43e4	5.19e4	NO	1.519
123678-HxCDD	36.822	1.001	1.12e4	9.49e3	0.929	1.179	42.8	1.60e5	1.27e5	NO	4.115
123789-HxCDD	37.250	1.012	6.25e3	5.30e3	0.904	1.179	26.0	9.71e4	7.48e4	NO	2.492
1234678-HpCDD	41.602	1.001	2.03e5	1.98e5	1.029	1.024	668.1	2.55e6	2.50e6	NO	95.370
OCDD	47.604	1.000	1.47e6	1.64e6	1.011	0.894	4325.0	1.40e7	1.58e7	NO	922.507
13C-2378-TCDF	26.272	1.007	4.62e5	5.83e5	1.522	0.793	2881.8	6.36e6	8.15e6	NO	78.099
13C-12378-PeCDF	30.421	1.166	5.02e5	3.14e5	1.185	1.596	1312.2	6.91e6	4.42e6	NO	78.341
13C-23478-PeCDF	31.769	1.218	4.71e5	2.98e5	1.136	1.578	1257.1	6.62e6	4.21e6	NO	77.014
13C-123478-HxCDF	35.452	0.952	1.99e5	3.82e5	1.284	0.520	724.1	2.83e6	5.45e6	NO	82.114
13C-123678-HxCDF	35.595	0.956	2.17e5	4.22e5	1.383	0.514	772.7	3.02e6	5.87e6	NO	83.791
13C-234678-HxCDF	36.537	0.981	1.85e5	3.63e5	1.283	0.510	670.7	2.62e6	5.14e6	NO	77.571
13C-123789-HxCDF	37.666	1.012	1.83e5	3.50e5	1.099	0.523	672.1	2.62e6	5.03e6	NO	87.943
13C-1234678-HpCDF	39.749	1.068	1.42e5	3.15e5	1.070	0.450	1118.0	2.02e6	4.39e6	NO	77.522
13C-1234789-HpCDF	42.478	1.141	1.08e5	2.46e5	0.774	0.440	716.0	1.29e6	2.84e6	NO	83.220
13C-1234-TCDD	26.093	0.000	3.86e5	4.93e5	1.000	0.782	1388.7	5.39e6	6.81e6	NO	100.000
13C-2378-TCDD	26.915	1.031	2.89e5	3.67e5	0.943	0.787	1031.5	4.00e6	5.04e6	NO	79.098
13C-12378-PeCDD	32.021	1.227	3.16e5	1.98e5	0.715	1.599	3564.8	4.44e6	2.80e6	NO	81.640
13C-123478-HxCDD	36.680	0.985	2.71e5	2.13e5	1.032	1.275	2276.8	3.87e6	3.08e6	NO	85.141
13C-123678-HxCDD	36.800	0.989	2.89e5	2.51e5	1.076	1.151	2361.0	4.02e6	3.31e6	NO	91.160
13C-1234678-HpCDD	41.579	1.117	2.11e5	1.97e5	0.838	1.070	1024.8	2.56e6	2.41e6	NO	88.520
13C-OCDD	47.585	1.278	3.18e5	3.47e5	0.675	0.915	1308.5	3.08e6	3.39e6	NO	178.802



**Quantify Sample Summary Report**      **MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

**ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk**

13C-123789-HxCDD	37.228	0.000	3.03e5	2.48e5	1.000	1.222	1.240	2504.9	1702	2996	4.26e6	3.47e6	NO	100.000
Total-tetrafurans			1.05e4		0.921				1472		1.42e5			2.386
Total-penta1			2.88e4						812		3.91e5			6.475
Total-pentafurans			1.36e4		0.927				1745		2.16e5			3.205
Total-hexafurans			8.40e4		1.062				1345		1.21e6			25.091
Total-heptafurans			1.63e5		1.231				1603		2.25e6			62.922
Total-Furans			3.95e5		1.065				1472		5.07e6			152.303
Total-tetra-dioxins			5.71e3		1.106				976		9.24e4			2.096
Total-penta-dioxins			2.36e4		1.001				1366		2.91e5			7.611
Total-hexa-dioxins			9.90e4		0.937				3732		1.25e6			37.359
Total-hepta-dioxins			4.36e5		1.029				3814		5.68e6			203.766
Total-Dioxins			2.03e6		0.994				976		2.14e7			1173.775
Total-TEQ			2.43e6						976		2.64e7			1326.078
37CL-2378-TCDD	26.930	1.032	2.96e5		1.051			2707.6	1501		4.06e6			32.002
FUNCTION1 PFK			1.57e6						389701		1.81e7			0.000
FUNCTION2 PFK			3.32e6						166532		2.11e7			0.000
FUNCTION3 PFK			4.82e5						286083		1.50e7			0.000
FUNCTION4 PFK			5.25e6						266814		1.24e7			0.000
FUNCTION5 PFK			1.15e4						153237		3.95e5			0.000
FUNCTION1 HXCDPE			3.76e2						487		9.91e3			0.000
FUNCTION1 HPCDPE			1.20e3						1098		2.50e4			0.000
FUNCTION2 HPCDPE			1.04e3						1265		2.62e4			0.000
FUNCTION3 OCDPE			0.00e0						527		0.00e0			0.000
FUNCTION4 NCDPE			2.88e3						763		5.21e4			0.000
FUNCTION5 DCDPE			0.00e0						342		0.00e0			0.000

11:25:090305

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

## TF

35	Total-tetrafurans	303.9016	25.20	3791.080	0.921	0.394	0.85	0.77	NO	13.2
35	Total-tetrafurans	303.9016	24.52	1055.874	0.921	0.110	0.71	0.77	NO	5.3
35	Total-tetrafurans	303.9016	24.27	2937.209	0.921	0.305	0.69	0.77	NO	11.8
35	Total-tetrafurans	303.9016	24.03	2430.017	0.921	0.252	0.94	0.77	YES	12.2
35	Total-tetrafurans	303.9016	23.85	802.295	0.921	0.083	0.34	0.77	YES	2.9
35	Total-tetrafurans	303.9016	23.64	7586.574	0.921	0.788	0.92	0.77	YES	32.1
35	Total-tetrafurans	303.9016	23.06	1451.992	0.921	0.151	1.06	0.77	YES	7.1
35	Total-tetrafurans	303.9016	27.72	675.296	0.921	0.070	0.79	0.77	NO	3.4
35	Total-tetrafurans	303.9016	26.54	1077.136	0.921	0.112	1.30	0.77	YES	4.6
35	Total-tetrafurans	303.9016	25.41	1158.346	0.921	0.120	0.66	0.77	NO	3.9

## PP

36	Total-penta1	339.8597	27.71	47063.797		6.475	1.58	1.55	NO	480.8
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## PF

37	Total-pentafurans	339.8597	30.08	3926.209	0.927	0.534	1.21	1.55	YES	18.3	
37	Total-pentafurans	339.8597	29.36	10443.095	0.927	1.421	1.34	1.55	NO	48.8	
37	Total-pentafurans	339.8597	29.29	3144.587	0.927	0.428	2.06	1.55	YES	25.6	
37	Total-pentafurans	339.8597	29.17	1398.580	0.927	0.190	1.17	1.55	YES	7.8	
3	23478-PeCDF	339.8597	31.78	2945.117	0.943	0.406	0.371	1.25	1.55	YES	13.9
37	Total-pentafurans	339.8597	31.65	1660.753	0.927	0.226	1.30	1.55	YES	9.6	

## HF

6	123678-HxCDF	373.8208	35.62	4624.617	1.056	0.686	0.686	1.30	1.24	NO	30.4
4	123478-HxCDF	373.8208	35.47	10859.320	1.101	1.697	1.697	1.26	1.24	NO	62.9
38	Total-hexafurans	373.8208	35.29	1549.306	1.062	0.254		1.09	1.24	NO	11.7
38	Total-hexafurans	373.8208	34.82	49479.178	1.062	8.102		1.20	1.24	NO	297.5
38	Total-hexafurans	373.8208	34.50	1560.657	1.062	0.256		1.36	1.24	NO	11.0
38	Total-hexafurans	373.8208	33.95	57715.119	1.062	9.451		1.16	1.24	NO	324.0
38	Total-hexafurans	373.8208	33.74	18435.595	1.062	3.019		1.19	1.24	NO	106.7
7	123789-HxCDF	373.8208	37.69	1177.013	1.017	0.217	0.186	1.61	1.24	YES	7.0
38	Total-hexafurans	373.8208	37.66	442.738	1.062	0.072		3.33	1.24	YES	6.0
5	234678-HxCDF	373.8208	36.53	6464.436	1.073	1.098	1.098	1.28	1.24	NO	27.8
38	Total-hexafurans	373.8208	35.97	1462.180	1.062	0.239		1.48	1.24	YES	11.4

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

HPF

39	Total-heptafurans	407.7818	40.81	1254.072	1.231	0.251	1.85	1.05	YES	8.7	
39	Total-heptafurans	407.7818	40.57	202086.078	1.231	40.458	1.01	1.05	NO	824.7	
39	Total-heptafurans	407.7818	40.26	1739.063	1.231	0.348	0.92	1.05	NO	8.3	
8	1234678-HpCDF	407.7818	39.76	117267.777	1.238	20.732	20.732	0.99	1.05	NO	547.4
9	1234789-HpCDF	407.7818	42.51	4916.537	1.224	1.133	0.946	0.75	1.05	YES	14.0

Furans,TF,PP,PF,HF,HPF,OF

35	Total-tetrafurans	303.9016	25.20	3791.080	0.921	0.394	0.85	0.77	NO	13.2	
35	Total-tetrafurans	303.9016	24.52	1055.874	0.921	0.110	0.71	0.77	NO	5.3	
35	Total-tetrafurans	303.9016	24.27	2937.209	0.921	0.305	0.69	0.77	NO	11.8	
35	Total-tetrafurans	303.9016	24.03	2430.017	0.921	0.252	0.94	0.77	YES	12.2	
35	Total-tetrafurans	303.9016	23.85	802.295	0.921	0.083	0.34	0.77	YES	2.9	
35	Total-tetrafurans	303.9016	23.64	7586.574	0.921	0.788	0.92	0.77	YES	32.1	
35	Total-tetrafurans	303.9016	23.06	1451.992	0.921	0.151	1.06	0.77	YES	7.1	
35	Total-tetrafurans	303.9016	27.72	675.296	0.921	0.070	0.79	0.77	NO	3.4	
35	Total-tetrafurans	303.9016	26.54	1077.136	0.921	0.112	1.30	0.77	YES	4.6	
35	Total-tetrafurans	303.9016	25.41	1158.346	0.921	0.120	0.66	0.77	NO	3.9	
37	Total-pentafurans	339.8597	30.08	3926.209	0.927	0.534	1.21	1.55	YES	18.3	
37	Total-pentafurans	339.8597	29.36	10443.095	0.927	1.421	1.34	1.55	NO	48.8	
37	Total-pentafurans	339.8597	29.29	3144.587	0.927	0.428	2.06	1.55	YES	25.6	
37	Total-pentafurans	339.8597	29.17	1398.580	0.927	0.190	1.17	1.55	YES	7.8	
3	23478-PeCDF	339.8597	31.78	2945.117	0.943	0.406	0.371	1.25	1.55	YES	13.9
37	Total-pentafurans	339.8597	31.65	1660.753	0.927	0.226	1.30	1.55	YES	9.6	
6	123678-HxCDF	373.8208	35.62	4624.617	1.056	0.686	0.686	1.30	1.24	NO	30.4
4	123478-HxCDF	373.8208	35.47	10859.320	1.101	1.697	1.697	1.26	1.24	NO	62.9
38	Total-hexafurans	373.8208	35.29	1549.306	1.062	0.254	1.09	1.24	NO	11.7	
38	Total-hexafurans	373.8208	34.82	49479.178	1.062	8.102	1.20	1.24	NO	297.5	
38	Total-hexafurans	373.8208	34.50	1560.657	1.062	0.256	1.36	1.24	NO	11.0	
38	Total-hexafurans	373.8208	33.95	57715.119	1.062	9.451	1.16	1.24	NO	324.0	
38	Total-hexafurans	373.8208	33.74	18435.595	1.062	3.019	1.19	1.24	NO	106.7	
7	123789-HxCDF	373.8208	37.69	1177.013	1.017	0.217	0.186	1.61	1.24	YES	7.0
38	Total-hexafurans	373.8208	37.66	442.738	1.062	0.072	3.33	1.24	YES	6.0	
5	234678-HxCDF	373.8208	36.53	6464.436	1.073	1.098	1.098	1.28	1.24	NO	27.8
38	Total-hexafurans	373.8208	35.97	1462.180	1.062	0.239	1.48	1.24	YES	11.4	
39	Total-heptafurans	407.7818	40.81	1254.072	1.231	0.251	1.85	1.05	YES	8.7	
39	Total-heptafurans	407.7818	40.57	202086.078	1.231	40.458	1.01	1.05	NO	824.7	
39	Total-heptafurans	407.7818	40.26	1739.063	1.231	0.348	0.92	1.05	NO	8.3	
8	1234678-HpCDF	407.7818	39.76	117267.777	1.238	20.732	20.732	0.99	1.05	NO	547.4
9	1234789-HpCDF	407.7818	42.51	4916.537	1.224	1.133	0.946	0.75	1.05	YES	14.0
10	OCDF	441.7428	47.88	201973.218	1.162	52.225	52.225	0.88	0.89	NO	550.0
36	Total-penta1	339.8597	27.71	47063.797		6.475	1.58	1.55	NO	480.8	

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld

Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time

Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

TD

41	Total-tetradiioxins	319.8965	25.27	417.875	1.106	0.058		1.28	0.77	YES	4.1
41	Total-tetradiioxins	319.8965	25.06	2412.580	1.106	0.333		0.76	0.77	NO	18.7
41	Total-tetradiioxins	319.8965	24.55	343.551	1.106	0.047		0.94	0.77	YES	3.1
41	Total-tetradiioxins	319.8965	24.35	2690.146	1.106	0.371		0.66	0.77	NO	15.2
41	Total-tetradiioxins	319.8965	24.06	3269.925	1.106	0.451		0.59	0.77	YES	19.7
41	Total-tetradiioxins	319.8965	27.54	746.579	1.106	0.103		0.96	0.77	YES	7.0
41	Total-tetradiioxins	319.8965	27.09	499.512	1.106	0.069		1.52	0.77	YES	3.9
41	Total-tetradiioxins	319.8965	27.08	642.740	1.106	0.089		0.50	0.77	YES	3.6
11	2378-TCDD	319.8965	26.94	1150.977	1.106	0.159	0.107	0.41	0.77	YES	6.3
41	Total-tetradiioxins	319.8965	25.88	787.146	1.106	0.109		0.31	0.77	YES	3.6
41	Total-tetradiioxins	319.8965	25.54	2238.299	1.106	0.309		0.35	0.77	YES	9.6

PD

42	Total-pentadiioxins	355.8546	29.82	1087.620	1.001	0.212		2.86	1.55	YES	8.9
42	Total-pentadiioxins	355.8546	29.30	19399.457	1.001	3.774		1.54	1.55	NO	76.0
42	Total-pentadiioxins	355.8546	32.44	576.159	1.001	0.112		2.47	1.55	YES	6.6
12	12378-PeCDD	355.8546	32.04	3295.577	1.001	0.641	0.561	1.14	1.55	YES	18.1
42	Total-pentadiioxins	355.8546	30.98	2302.770	1.001	0.448		1.63	1.55	NO	12.0
42	Total-pentadiioxins	355.8546	30.79	2446.667	1.001	0.476		1.61	1.55	NO	19.3
42	Total-pentadiioxins	355.8546	30.66	4826.652	1.001	0.939		1.20	1.55	YES	27.6
42	Total-pentadiioxins	355.8546	30.61	1935.880	1.001	0.377		2.34	1.55	YES	18.9
42	Total-pentadiioxins	355.8546	30.44	3246.423	1.001	0.632		1.59	1.55	NO	25.5

HD

43	Total-hexadiioxins	389.8157	34.53	60004.616	0.937	12.493		1.22	1.24	NO	129.2
15	123789-HxCDD	389.8157	37.25	11547.858	0.904	2.492	2.492	1.18	1.24	NO	26.0
43	Total-hexadiioxins	389.8157	37.01	1630.911	0.937	0.340		1.02	1.24	YES	4.1
14	123678-HxCDD	389.8157	36.82	20681.508	0.929	4.115	4.115	1.18	1.24	NO	42.8
13	123478-HxCDD	389.8157	36.68	7191.071	0.978	1.519	1.519	1.11	1.24	NO	14.6
43	Total-hexadiioxins	389.8157	35.86	940.128	0.937	0.196		1.09	1.24	NO	3.9
43	Total-hexadiioxins	389.8157	35.73	67607.316	0.937	14.076		1.29	1.24	NO	94.5
43	Total-hexadiioxins	389.8157	35.34	10221.523	0.937	2.128		1.14	1.24	NO	21.1

HPD

16	1234678-HpCDD	423.7766	41.60	400904.047	1.029	95.370	95.370	1.02	1.05	NO	668.1
44	Total-heptadiioxins	423.7766	40.32	455663.422	1.029	108.396		1.05	1.05	NO	821.3

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## Dioxins,TD,PD,HD,HPD,OD

41	Total-tetradoxins	319.8965	25.27	417.875	1.106	0.058		1.28	0.77	YES	4.1
41	Total-tetradoxins	319.8965	25.06	2412.580	1.106	0.333		0.76	0.77	NO	18.7
41	Total-tetradoxins	319.8965	24.55	343.551	1.106	0.047		0.94	0.77	YES	3.1
41	Total-tetradoxins	319.8965	24.35	2690.146	1.106	0.371		0.66	0.77	NO	15.2
41	Total-tetradoxins	319.8965	24.06	3269.925	1.106	0.451		0.59	0.77	YES	19.7
45	Total-Dioxins	319.8965	23.46	1008.863	0.994	0.155		1.04	0.77	YES	7.1
45	Total-Dioxins	319.8965	27.81	1828.036	0.994	0.281		0.64	0.77	YES	9.0
41	Total-tetradoxins	319.8965	27.54	746.579	1.106	0.103		0.96	0.77	YES	7.0
41	Total-tetradoxins	319.8965	27.09	499.512	1.106	0.069		1.52	0.77	YES	3.9
41	Total-tetradoxins	319.8965	27.08	642.740	1.106	0.089		0.50	0.77	YES	3.6
11	2378-TCDD	319.8965	26.94	1150.977	1.106	0.159	0.107	0.41	0.77	YES	6.3
41	Total-tetradoxins	319.8965	25.88	787.146	1.106	0.109		0.31	0.77	YES	3.6
41	Total-tetradoxins	319.8965	25.54	2238.299	1.106	0.309		0.35	0.77	YES	9.6
42	Total-pentadoxins	355.8546	29.82	1087.620	1.001	0.212		2.86	1.55	YES	8.9
42	Total-pentadoxins	355.8546	29.30	19399.457	1.001	3.774		1.54	1.55	NO	76.0
42	Total-pentadoxins	355.8546	32.44	576.159	1.001	0.112		2.47	1.55	YES	6.6
12	12378-PeCDD	355.8546	32.04	3295.577	1.001	0.641	0.561	1.14	1.55	YES	18.1
42	Total-pentadoxins	355.8546	30.98	2302.770	1.001	0.448		1.63	1.55	NO	12.0
42	Total-pentadoxins	355.8546	30.79	2446.667	1.001	0.476		1.61	1.55	NO	19.3
42	Total-pentadoxins	355.8546	30.66	4826.652	1.001	0.939		1.20	1.55	YES	27.6
42	Total-pentadoxins	355.8546	30.61	1935.880	1.001	0.377		2.34	1.55	YES	18.9
42	Total-pentadoxins	355.8546	30.44	3246.423	1.001	0.632		1.59	1.55	NO	25.5
43	Total-hexadoxins	389.8157	34.53	60004.616	0.937	12.493		1.22	1.24	NO	129.2
15	123789-HxCDD	389.8157	37.25	11547.858	0.904	2.492	2.492	1.18	1.24	NO	26.0
43	Total-hexadoxins	389.8157	37.01	1630.911	0.937	0.340		1.02	1.24	YES	4.1
14	123678-HxCDD	389.8157	36.82	20681.508	0.929	4.115	4.115	1.18	1.24	NO	42.8
13	123478-HxCDD	389.8157	36.68	7191.071	0.978	1.519	1.519	1.11	1.24	NO	14.6
43	Total-hexadoxins	389.8157	35.86	940.128	0.937	0.196		1.09	1.24	NO	3.9
43	Total-hexadoxins	389.8157	35.73	67607.316	0.937	14.076		1.29	1.24	NO	94.5
43	Total-hexadoxins	389.8157	35.34	10221.523	0.937	2.128		1.14	1.24	NO	21.1
16	1234678-HpCDD	423.7766	41.60	400904.047	1.029	95.370	95.370	1.02	1.05	NO	668.1
44	Total-heptadoxins	423.7766	40.32	455663.422	1.029	108.396		1.05	1.05	NO	821.3
17	OCDD	457.7377	47.60	3104687.750	1.011	922.507	922....	0.89	0.89	NO	4325.0

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TotalTEQ,Furans,Dioxins

35	Total-tetrafurans	303.9016	25.20	3791.080	0.921	0.394	0.85	0.77	NO	13.2	
35	Total-tetrafurans	303.9016	24.52	1055.874	0.921	0.110	0.71	0.77	NO	5.3	
35	Total-tetrafurans	303.9016	24.27	2937.209	0.921	0.305	0.69	0.77	NO	11.8	
35	Total-tetrafurans	303.9016	24.03	2430.017	0.921	0.252	0.94	0.77	YES	12.2	
35	Total-tetrafurans	303.9016	23.85	802.295	0.921	0.083	0.34	0.77	YES	2.9	
35	Total-tetrafurans	303.9016	23.64	7586.574	0.921	0.788	0.92	0.77	YES	32.1	
35	Total-tetrafurans	303.9016	23.06	1451.992	0.921	0.151	1.06	0.77	YES	7.1	
35	Total-tetrafurans	303.9016	27.72	675.296	0.921	0.070	0.79	0.77	NO	3.4	
35	Total-tetrafurans	303.9016	26.54	1077.136	0.921	0.112	1.30	0.77	YES	4.6	
35	Total-tetrafurans	303.9016	25.41	1158.346	0.921	0.120	0.66	0.77	NO	3.9	
37	Total-pentafurans	339.8597	30.08	3926.209	0.927	0.534	1.21	1.55	YES	18.3	
37	Total-pentafurans	339.8597	29.36	10443.095	0.927	1.421	1.34	1.55	NO	48.8	
37	Total-pentafurans	339.8597	29.29	3144.587	0.927	0.428	2.06	1.55	YES	25.6	
37	Total-pentafurans	339.8597	29.17	1398.580	0.927	0.190	1.17	1.55	YES	7.8	
3	23478-PeCDF	339.8597	31.78	2945.117	0.943	0.406	0.371	1.25	1.55	YES	13.9
37	Total-pentafurans	339.8597	31.65	1660.753	0.927	0.226	1.30	1.55	YES	9.6	
6	123678-HxCDF	373.8208	35.62	4624.617	1.056	0.686	0.686	1.30	1.24	NO	30.4
4	123478-HxCDF	373.8208	35.47	10859.320	1.101	1.697	1.697	1.26	1.24	NO	62.9
38	Total-hexafurans	373.8208	35.29	1549.306	1.062	0.254	1.09	1.24	NO	11.7	
38	Total-hexafurans	373.8208	34.82	49479.178	1.062	8.102	1.20	1.24	NO	297.5	
38	Total-hexafurans	373.8208	34.50	1560.657	1.062	0.256	1.36	1.24	NO	11.0	
38	Total-hexafurans	373.8208	33.95	57715.119	1.062	9.451	1.16	1.24	NO	324.0	
38	Total-hexafurans	373.8208	33.74	18435.595	1.062	3.019	1.19	1.24	NO	106.7	
7	123789-HxCDF	373.8208	37.69	1177.013	1.017	0.217	0.186	1.61	1.24	YES	7.0
38	Total-hexafurans	373.8208	37.66	442.738	1.062	0.072	3.33	1.24	YES	6.0	
5	234678-HxCDF	373.8208	36.53	6464.436	1.073	1.098	1.098	1.28	1.24	NO	27.8
38	Total-hexafurans	373.8208	35.97	1462.180	1.062	0.239	1.48	1.24	YES	11.4	
39	Total-heptafurans	407.7818	40.81	1254.072	1.231	0.251	1.85	1.05	YES	8.7	
39	Total-heptafurans	407.7818	40.57	202086.078	1.231	40.458	1.01	1.05	NO	824.7	
39	Total-heptafurans	407.7818	40.26	1739.063	1.231	0.348	0.92	1.05	NO	8.3	
8	1234678-HpCDF	407.7818	39.76	117267.777	1.238	20.732	20.732	0.99	1.05	NO	547.4
9	1234789-HpCDF	407.7818	42.51	4916.537	1.224	1.133	0.946	0.75	1.05	YES	14.0
10	OCDF	441.7428	47.88	201973.218	1.162	52.225	52.225	0.88	0.89	NO	550.0
36	Total-penta1	339.8597	27.71	47063.797		6.475	1.58	1.55	NO	480.8	
41	Total-tetradiioxins	319.8965	25.27	417.875	1.106	0.058	1.28	0.77	YES	4.1	
41	Total-tetradiioxins	319.8965	25.06	2412.580	1.106	0.333	0.76	0.77	NO	18.7	
41	Total-tetradiioxins	319.8965	24.55	343.551	1.106	0.047	0.94	0.77	YES	3.1	
41	Total-tetradiioxins	319.8965	24.35	2690.146	1.106	0.371	0.66	0.77	NO	15.2	
41	Total-tetradiioxins	319.8965	24.06	3269.925	1.106	0.451	0.59	0.77	YES	19.7	
45	Total-Dioxins	319.8965	23.46	1008.863	0.994	0.155	1.04	0.77	YES	7.1	
45	Total-Dioxins	319.8965	27.81	1828.036	0.994	0.281	0.64	0.77	YES	9.0	
41	Total-tetradiioxins	319.8965	27.54	746.579	1.106	0.103	0.96	0.77	YES	7.0	
41	Total-tetradiioxins	319.8965	27.09	499.512	1.106	0.069	1.52	0.77	YES	3.9	
41	Total-tetradiioxins	319.8965	27.08	642.740	1.106	0.089	0.50	0.77	YES	3.6	
11	2378-TCDD	319.8965	26.94	1150.977	1.106	0.159	0.107	0.41	0.77	YES	6.3
41	Total-tetradiioxins	319.8965	25.88	787.146	1.106	0.109	0.31	0.77	YES	3.6	
41	Total-tetradiioxins	319.8965	25.54	2238.299	1.106	0.309	0.35	0.77	YES	9.6	
42	Total-pentadiioxins	355.8546	29.82	1087.620	1.001	0.212	2.86	1.55	YES	8.9	
42	Total-pentadiioxins	355.8546	29.30	19399.457	1.001	3.774	1.54	1.55	NO	76.0	

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TotalTEQ,Furans,Dioxins

#	Name	Total	TEQ	Abs Resp	REP N	LO	EMPC	REPL	REP	SN
42	Total-pentadioxins	355.8546	32.44	576.159	1.001	0.112		2.47	1.55	YES 6.6
12	12378-PeCDD	355.8546	32.04	3295.577	1.001	0.641	0.561	1.14	1.55	YES 18.1
42	Total-pentadioxins	355.8546	30.98	2302.770	1.001	0.448		1.63	1.55	NO 12.0
42	Total-pentadioxins	355.8546	30.79	2446.667	1.001	0.476		1.61	1.55	NO 19.3
42	Total-pentadioxins	355.8546	30.66	4826.652	1.001	0.939		1.20	1.55	YES 27.6
42	Total-pentadioxins	355.8546	30.61	1935.880	1.001	0.377		2.34	1.55	YES 18.9
42	Total-pentadioxins	355.8546	30.44	3246.423	1.001	0.632		1.59	1.55	NO 25.5
43	Total-hexadioxins	389.8157	34.53	60004.616	0.937	12.493		1.22	1.24	NO 129.2
15	123789-HxCDD	389.8157	37.25	11547.858	0.904	2.492	2.492	1.18	1.24	NO 26.0
43	Total-hexadioxins	389.8157	37.01	1630.911	0.937	0.340		1.02	1.24	YES 4.1
14	123678-HxCDD	389.8157	36.82	20681.508	0.929	4.115	4.115	1.18	1.24	NO 42.8
13	123478-HxCDD	389.8157	36.68	7191.071	0.978	1.519	1.519	1.11	1.24	NO 14.6
43	Total-hexadioxins	389.8157	35.86	940.128	0.937	0.196		1.09	1.24	NO 3.9
43	Total-hexadioxins	389.8157	35.73	67607.316	0.937	14.076		1.29	1.24	NO 94.5
43	Total-hexadioxins	389.8157	35.34	10221.523	0.937	2.128		1.14	1.24	NO 21.1
16	1234678-HpCDD	423.7766	41.60	400904.047	1.029	95.370	95.370	1.02	1.05	NO 668.1
44	Total-heptadioxins	423.7766	40.32	455663.422	1.029	108.396		1.05	1.05	NO 821.3
17	OCDD	457.7377	47.60	3104687.750	1.011	922.507	922....	0.89	0.89	NO 4325.0

PFK1

#	Name	Total	TEQ	Abs Resp	REP N	LO	EMPC	REPL	REP	SN
48	FUNCTION1 PFK	330.9792	24.54	0.000						9.1
48	FUNCTION1 PFK	330.9792	23.37	0.000						7.2
48	FUNCTION1 PFK	330.9792	21.94	0.000						10.6
48	FUNCTION1 PFK	330.9792	21.83	0.000						12.3
48	FUNCTION1 PFK	330.9792	21.66	0.000						7.1

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PFK2

49	FUNCTION2 PFK	366.9792	30.71	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	30.52	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	30.02	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	29.88	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	29.24	0.000	0.000	12.6
49	FUNCTION2 PFK	366.9792	29.19	0.000	0.000	13.9
49	FUNCTION2 PFK	366.9792	29.06	0.000	0.000	19.3
49	FUNCTION2 PFK	366.9792	28.80	0.000	0.000	29.3
49	FUNCTION2 PFK	366.9792	28.72	0.000	0.000	32.6
49	FUNCTION2 PFK	366.9792	32.74	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	32.69	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	32.51	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	32.36	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	31.63	0.000	0.000	0.4
49	FUNCTION2 PFK	366.9792	31.52	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	31.46	0.000	0.000	1.5
49	FUNCTION2 PFK	366.9792	31.10	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	31.06	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	31.01	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	30.96	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	30.82	0.000	0.000	1.2



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PFK3

50 FUNCTION3 PFK	380.9760	33.35	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	33.22	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	33.17	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	34.88	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	34.64	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	34.60	0.000	0.000	1.9
50 FUNCTION3 PFK	380.9760	34.43	0.000	0.000	0.4
50 FUNCTION3 PFK	380.9760	34.22	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	34.16	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	34.08	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	34.01	0.000	0.000	0.5
50 FUNCTION3 PFK	380.9760	33.93	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	33.86	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	33.76	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	33.72	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	33.56	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	33.50	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	33.46	0.000	0.000	2.0
50 FUNCTION3 PFK	380.9760	33.40	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	36.95	0.000	0.000	2.0
50 FUNCTION3 PFK	380.9760	36.79	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	36.48	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	36.22	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	36.18	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	36.14	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	36.10	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	35.85	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	35.65	0.000	0.000	2.0
50 FUNCTION3 PFK	380.9760	35.58	0.000	0.000	2.1
50 FUNCTION3 PFK	380.9760	35.52	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	35.47	0.000	0.000	2.2
50 FUNCTION3 PFK	380.9760	35.28	0.000	0.000	1.9
50 FUNCTION3 PFK	380.9760	35.20	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	35.04	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	34.93	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	38.47	0.000	0.000	0.4
50 FUNCTION3 PFK	380.9760	38.36	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	38.28	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	37.81	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	37.69	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	37.63	0.000	0.000	2.1
50 FUNCTION3 PFK	380.9760	37.53	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	37.40	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	37.14	0.000	0.000	1.0

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

PFK4

Sample	Retention Time (min)	Area	Height	Abundance	EMPC	1st Rat.	2nd Rat.	3rd Rat.	SN
51 FUNCTION4 PFK	430.9728	40.36	0.000						1.5
51 FUNCTION4 PFK	430.9728	40.02	0.000						1.8
51 FUNCTION4 PFK	430.9728	39.97	0.000						1.0
51 FUNCTION4 PFK	430.9728	39.77	0.000						1.2
51 FUNCTION4 PFK	430.9728	39.53	0.000						5.4
51 FUNCTION4 PFK	430.9728	39.38	0.000						12.9
51 FUNCTION4 PFK	430.9728	42.88	0.000						0.8
51 FUNCTION4 PFK	430.9728	42.84	0.000						1.4
51 FUNCTION4 PFK	430.9728	42.43	0.000						1.3
51 FUNCTION4 PFK	430.9728	42.26	0.000						2.0
51 FUNCTION4 PFK	430.9728	42.15	0.000						0.7
51 FUNCTION4 PFK	430.9728	42.07	0.000						0.6
51 FUNCTION4 PFK	430.9728	42.03	0.000						0.7
51 FUNCTION4 PFK	430.9728	41.73	0.000						1.1
51 FUNCTION4 PFK	430.9728	41.69	0.000						0.4
51 FUNCTION4 PFK	430.9728	41.65	0.000						0.4
51 FUNCTION4 PFK	430.9728	41.61	0.000						0.7
51 FUNCTION4 PFK	430.9728	41.55	0.000						1.1
51 FUNCTION4 PFK	430.9728	41.02	0.000						0.8
51 FUNCTION4 PFK	430.9728	40.64	0.000						0.9
51 FUNCTION4 PFK	430.9728	40.58	0.000						1.1
51 FUNCTION4 PFK	430.9728	40.53	0.000						1.5
51 FUNCTION4 PFK	430.9728	44.93	0.000						0.8
51 FUNCTION4 PFK	430.9728	44.56	0.000						0.6
51 FUNCTION4 PFK	430.9728	44.35	0.000						0.7
51 FUNCTION4 PFK	430.9728	44.29	0.000						1.2
51 FUNCTION4 PFK	430.9728	44.16	0.000						0.9
51 FUNCTION4 PFK	430.9728	44.06	0.000						0.6
51 FUNCTION4 PFK	430.9728	43.45	0.000						0.8
51 FUNCTION4 PFK	430.9728	43.36	0.000						0.4
51 FUNCTION4 PFK	430.9728	43.04	0.000						1.2

PFK5

Sample	Retention Time (min)	Area	Height	Abundance	EMPC	1st Rat.	2nd Rat.	3rd Rat.	SN
52 FUNCTION5 PFK	480.9696	45.26	0.000						2.6

ETHERS1

Sample	Retention Time (min)	Area	Height	Abundance	EMPC	1st Rat.	2nd Rat.	3rd Rat.	SN
53 FUNCTION1 HXCD...	375.8364	24.15	0.000	0.000					8.4
53 FUNCTION1 HXCD...	375.8364	23.79	0.000	0.000					5.7
53 FUNCTION1 HXCD...	375.8364	23.08	0.000	0.000					6.3

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

ETHERS2

#	Name	Trace	RT	Abs Resp	RRF	SN
54	FUNCTION1 HPCD...	409.7974	28.38	0.000	0.000	2.3
54	FUNCTION1 HPCD...	409.7974	27.12	0.000	0.000	2.1
54	FUNCTION1 HPCD...	409.7974	25.96	0.000	0.000	2.0
54	FUNCTION1 HPCD...	409.7974	25.30	0.000	0.000	2.2
54	FUNCTION1 HPCD...	409.7974	24.41	0.000	0.000	3.0
54	FUNCTION1 HPCD...	409.7974	23.18	0.000	0.000	2.4
54	FUNCTION1 HPCD...	409.7974	22.01	0.000	0.000	2.9
54	FUNCTION1 HPCD...	409.7974	21.36	0.000	0.000	3.8
54	FUNCTION1 HPCD...	409.7974	21.13	0.000	0.000	2.0

ETHERS3

#	Name	Trace	RT	Abs Resp	RRF	SN
55	FUNCTION2 HPCD...	409.7974	30.42	0.000	0.000	1.5
55	FUNCTION2 HPCD...	409.7974	30.31	0.000	0.000	2.7
55	FUNCTION2 HPCD...	409.7974	30.08	0.000	0.000	1.8
55	FUNCTION2 HPCD...	409.7974	30.00	0.000	0.000	2.8
55	FUNCTION2 HPCD...	409.7974	29.37	0.000	0.000	2.3
55	FUNCTION2 HPCD...	409.7974	29.29	0.000	0.000	3.1
55	FUNCTION2 HPCD...	409.7974	31.99	0.000	0.000	1.6
55	FUNCTION2 HPCD...	409.7974	31.63	0.000	0.000	1.6
55	FUNCTION2 HPCD...	409.7974	31.05	0.000	0.000	1.4
55	FUNCTION2 HPCD...	409.7974	30.52	0.000	0.000	2.0

ETHERS4

#	Name	Trace	RT	Abs Resp	RRF	SN

ETHERS5

#	Name	Trace	RT	Abs Resp	RRF	SN
57	FUNCTION4 NCDPE	479.7165	44.60	0.000	0.000	2.9
57	FUNCTION4 NCDPE	479.7165	43.18	0.000	0.000	3.1
57	FUNCTION4 NCDPE	479.7165	42.65	0.000	0.000	5.5
57	FUNCTION4 NCDPE	479.7165	41.33	0.000	0.000	4.6
57	FUNCTION4 NCDPE	479.7165	39.43	0.000	0.000	4.7
57	FUNCTION4 NCDPE	479.7165	39.35	0.000	0.000	47.4

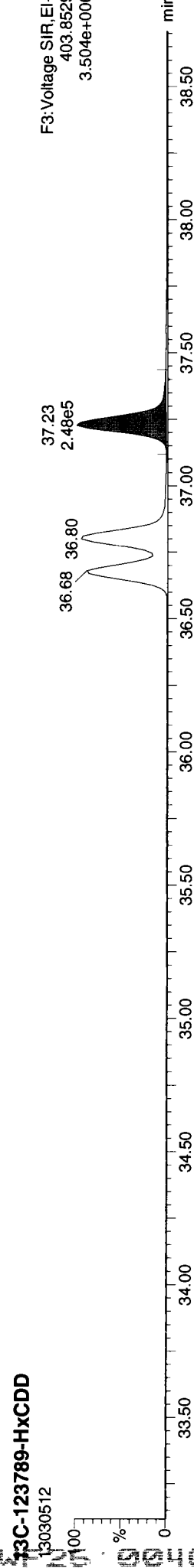
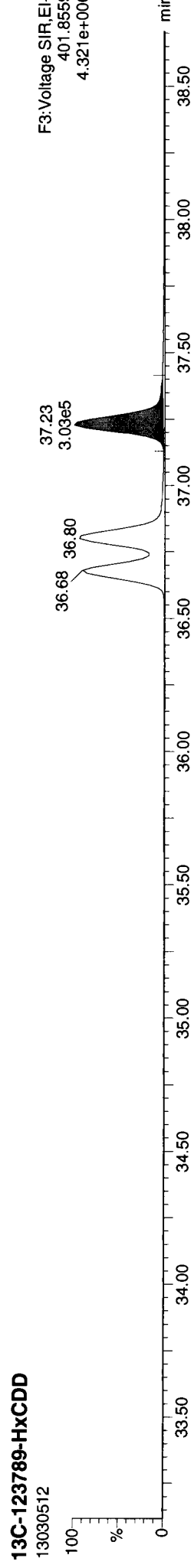
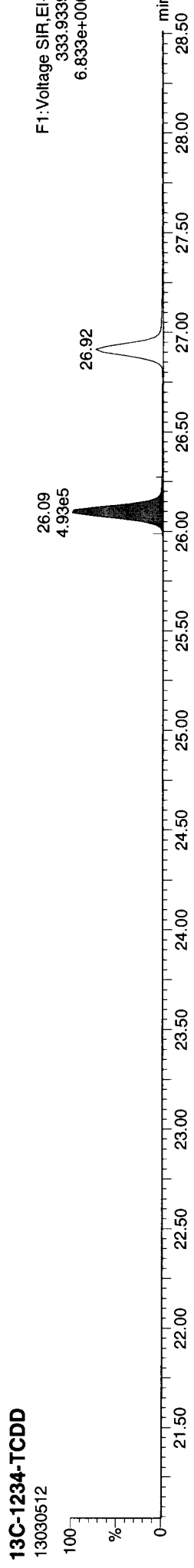
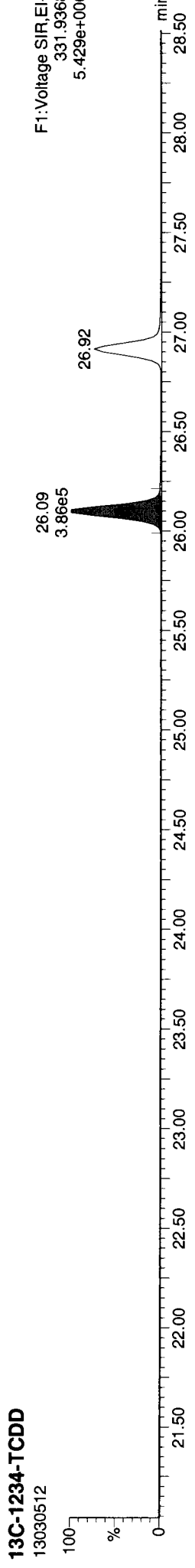
ETHERS6

#	Name	Trace	RT	Abs Resp	RRF	SN

Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\DiDioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

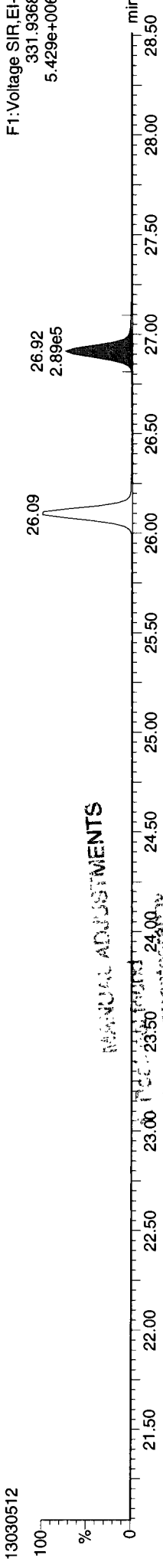


13030512

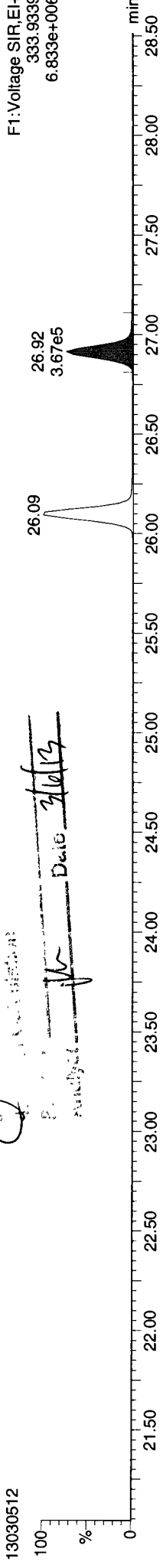
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

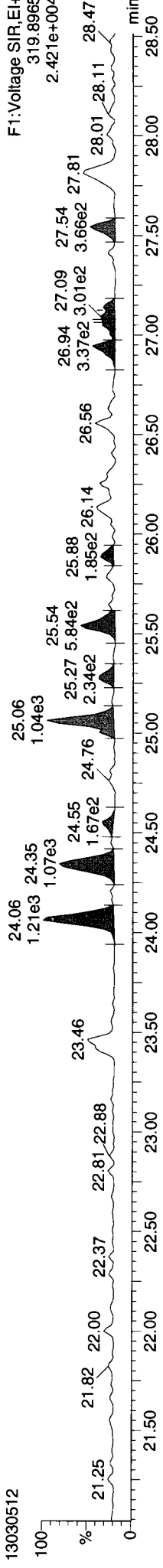
13C-2378-TCDD



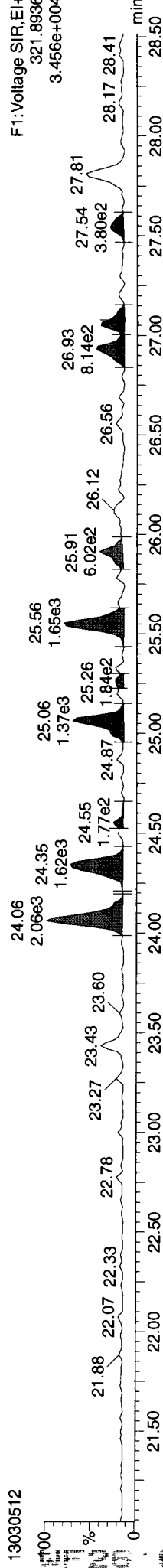
13C-2378-TCDD



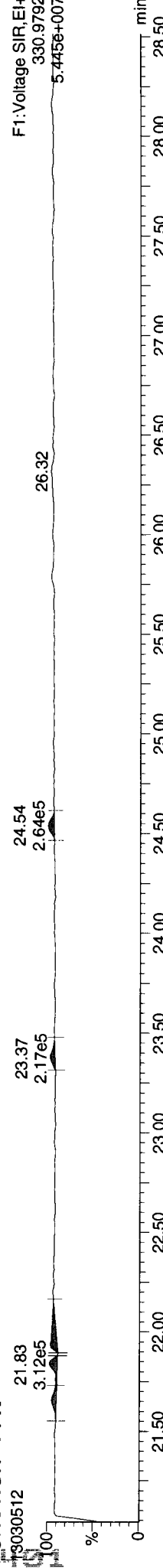
Total-tetradioxins



Total-tetradioxins



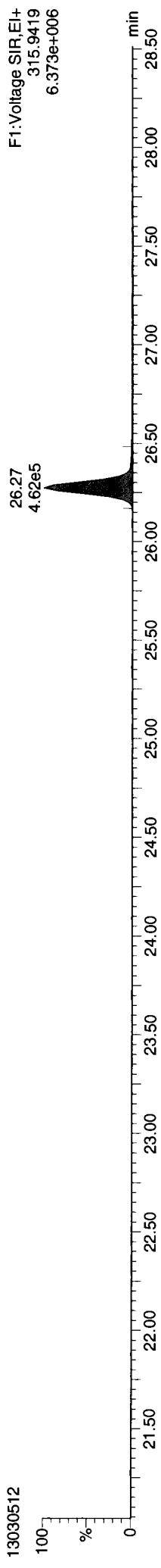
FUNCTION1 PFK



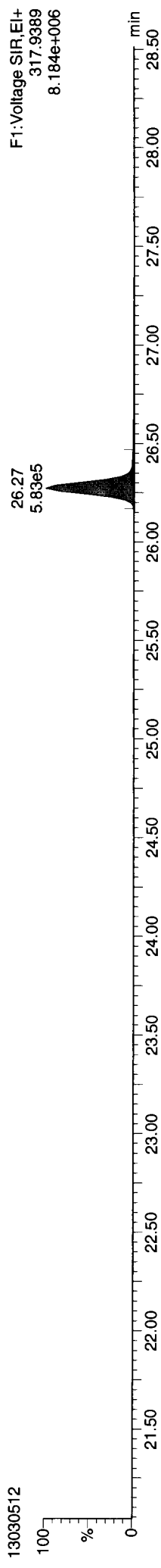
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 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

**ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk**

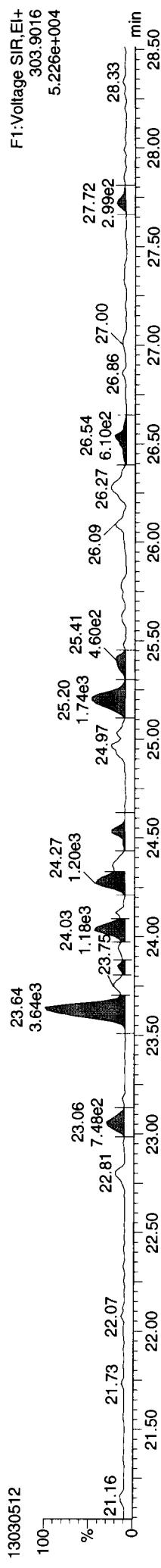
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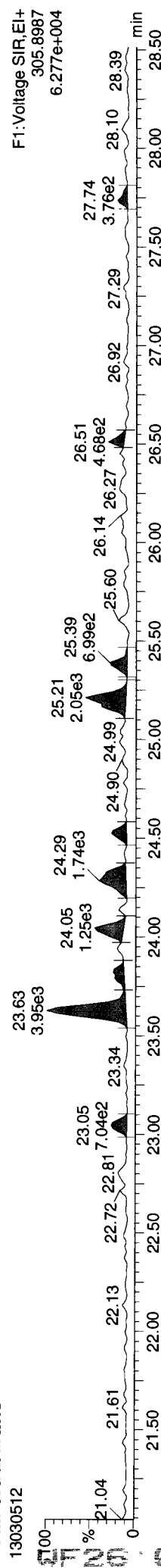
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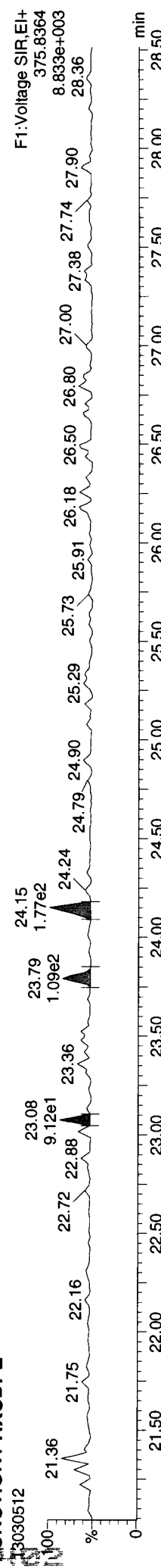
**Total-tetrafurans**



**Total-tetrafurans**



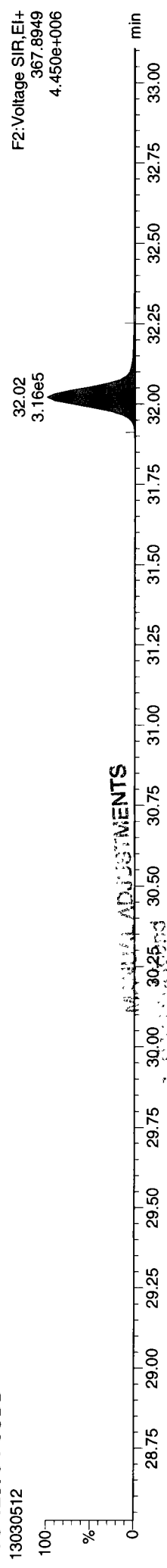
**FUNCTION1 HXCDPE**



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

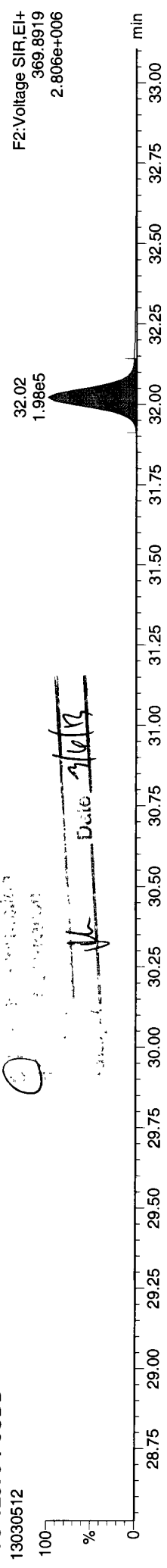
ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD  
13030512



F2: Voltage SIR, EI+  
367.8949  
4.450e+006

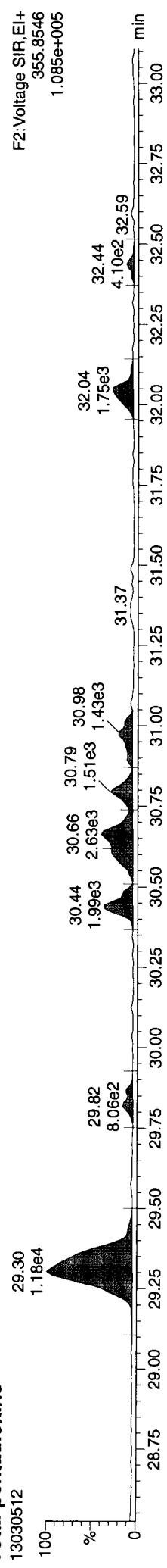
13C-12378-PeCDD  
13030512



F2: Voltage SIR, EI+  
369.8919  
2.806e+006

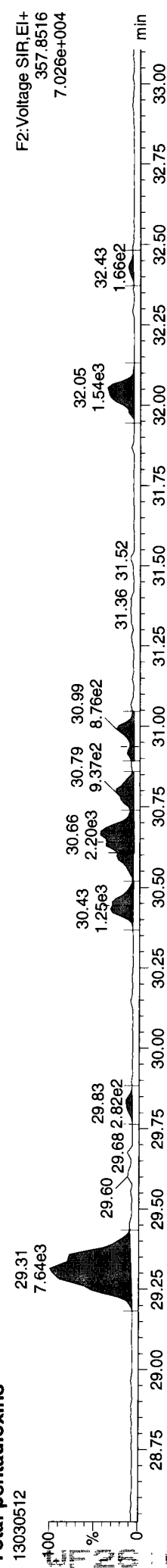
ADJUSTMENTS  
Date 3/6/13

Total-pentadioxins  
13030512



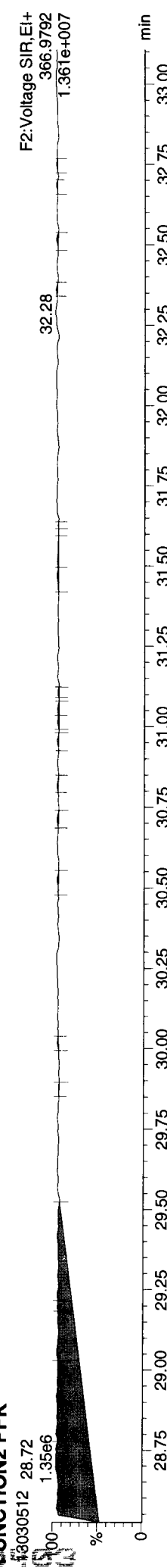
F2: Voltage SIR, EI+  
355.8546  
1.085e+005

Total-pentadioxins  
13030512



F2: Voltage SIR, EI+  
357.8516  
7.026e+004

FUNCTION2 PFK  
13030512

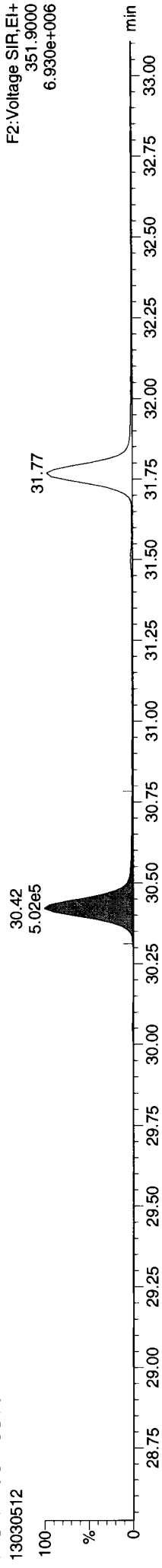


F2: Voltage SIR, EI+  
366.9792  
1.361e+007

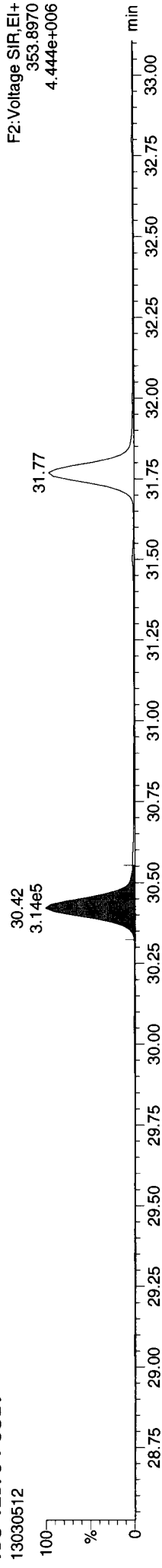
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 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

**ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk**

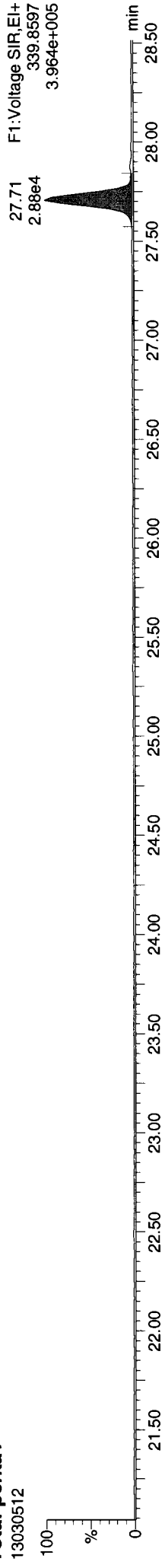
**13C-12378-PeCDF**



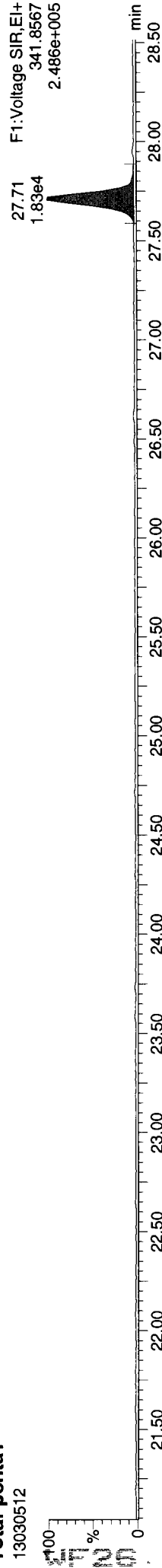
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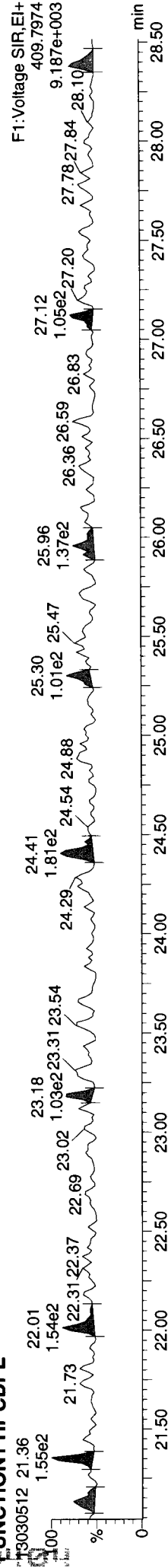
**Total-penta1**



**Total-penta1**



**FUNCTION1 HPCDFE**

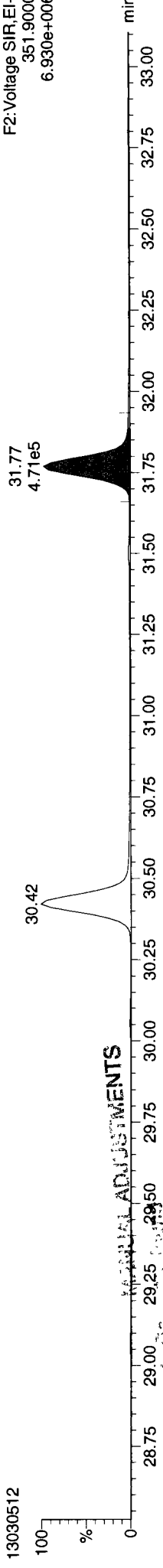




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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

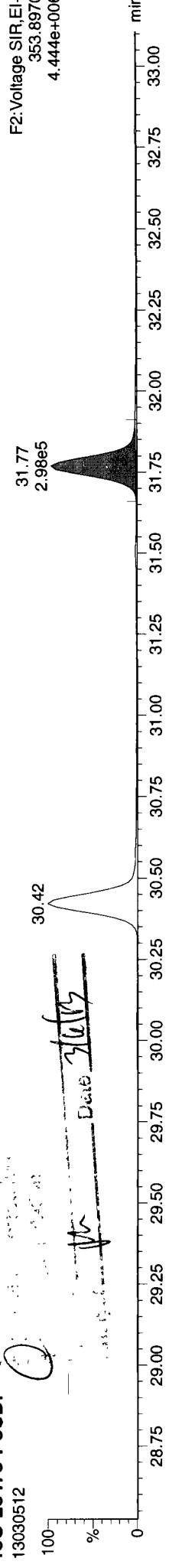
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13C-23478-PeCDF  
13030512



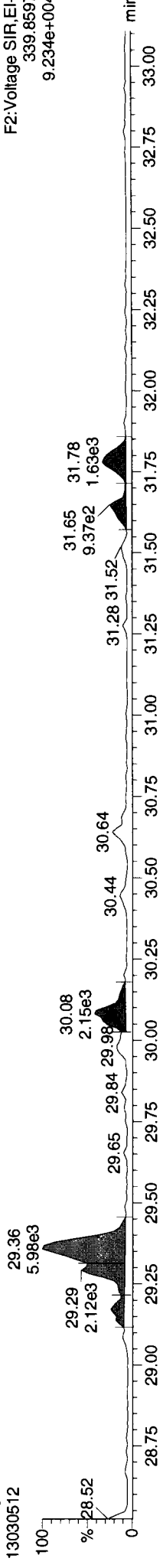
F2: Voltage SIR, EI+  
351.9000  
6.930e+006

13C-23478-PeCDF  
13030512



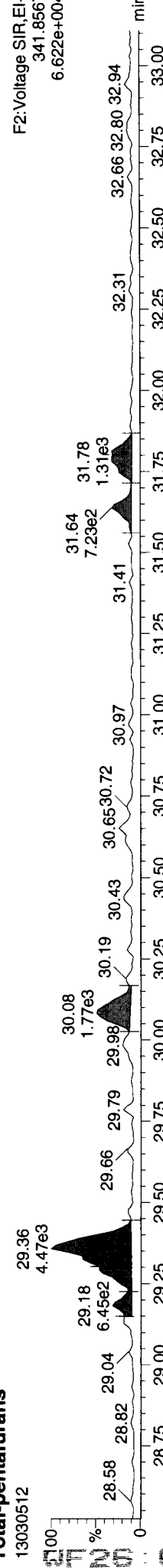
F2: Voltage SIR, EI+  
353.8970  
4.444e+006

Total-pentafurans  
13030512



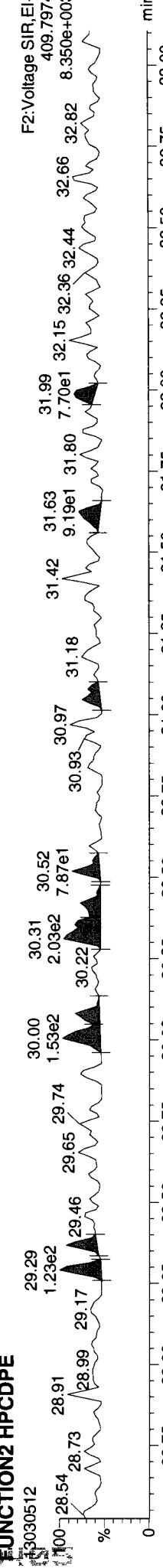
F2: Voltage SIR, EI+  
339.8597  
9.234e+004

Total-pentafurans  
13030512



F2: Voltage SIR, EI+  
341.8567  
6.622e+004

FUNCTION2 HPCDPE  
13030512

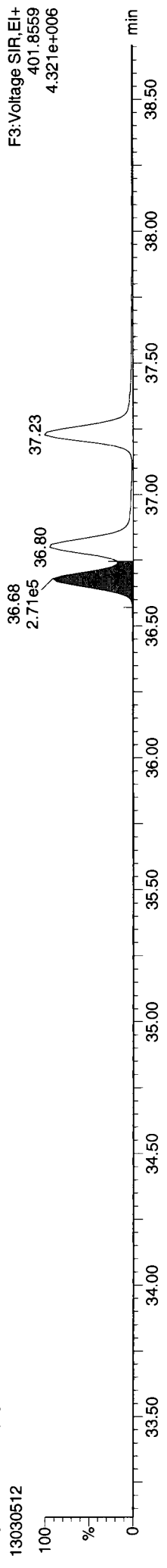


F2: Voltage SIR, EI+  
409.7974  
8.350e+003

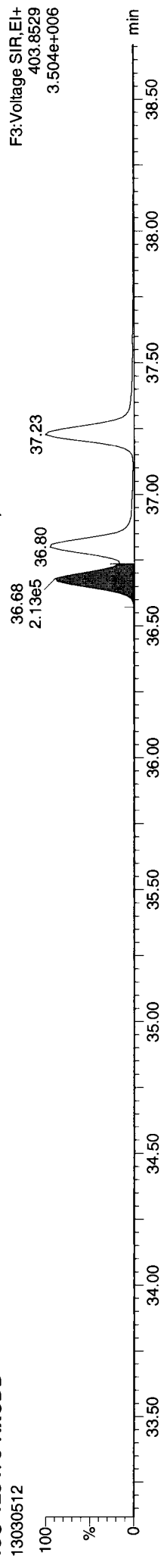
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 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

**ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk**

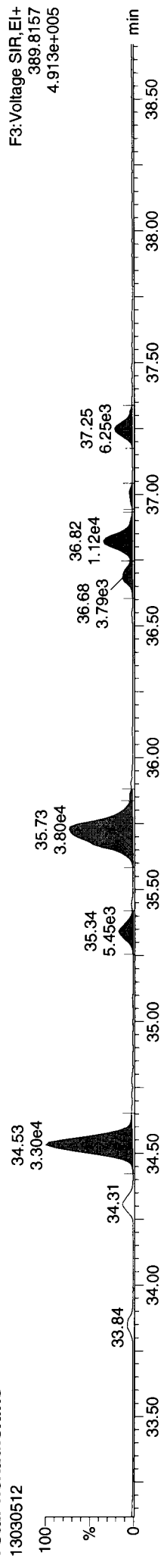
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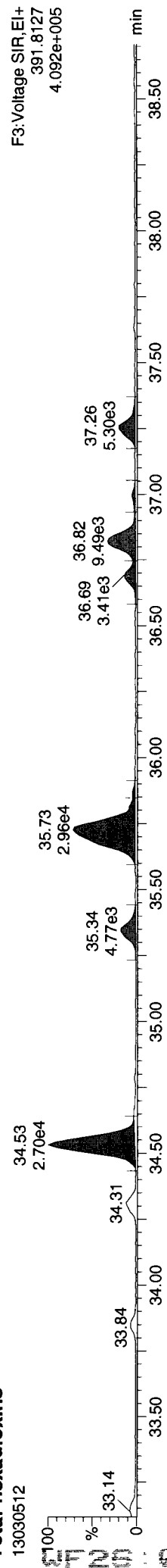
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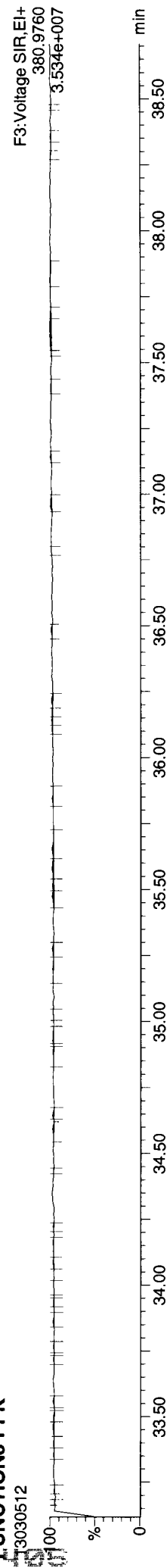
**Total-hexadioxins**



**Total-hexadioxins**



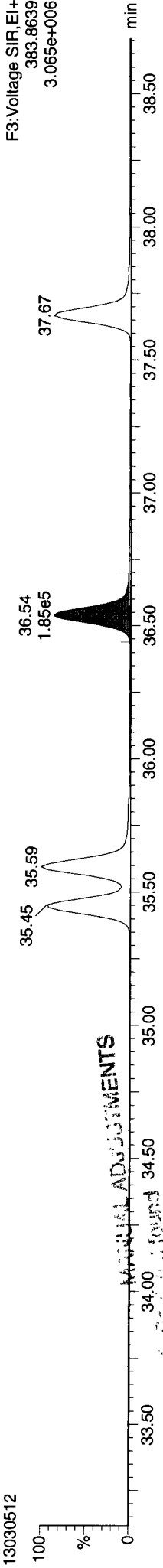
**FUNCTION3 PFK**



Dataset: P:\DIOXIN6290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

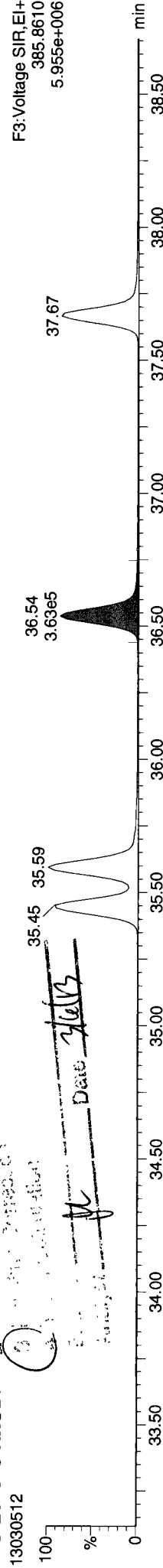
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13C-234678-HxCDF



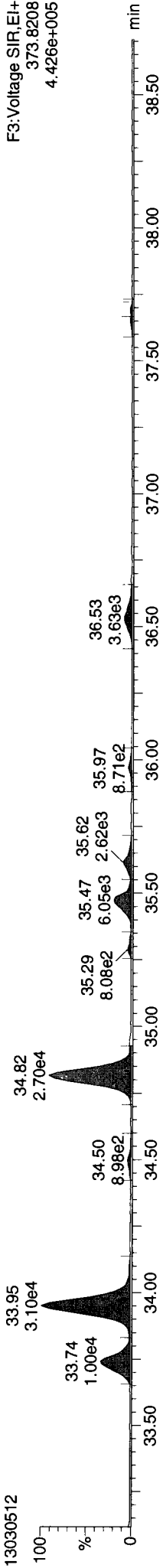
MATERIAL ADJUSTMENTS

13C-234678-HxCDF

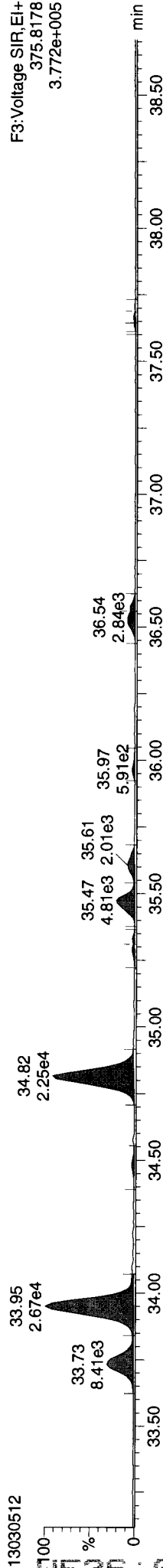


*Handwritten signature*  
Date 7/6/13

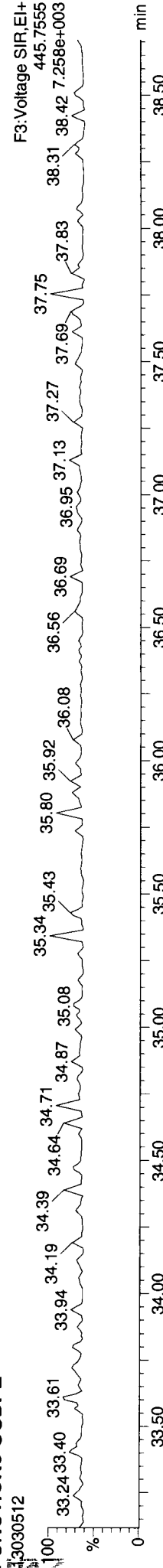
Total-hexafurans



Total-hexafurans



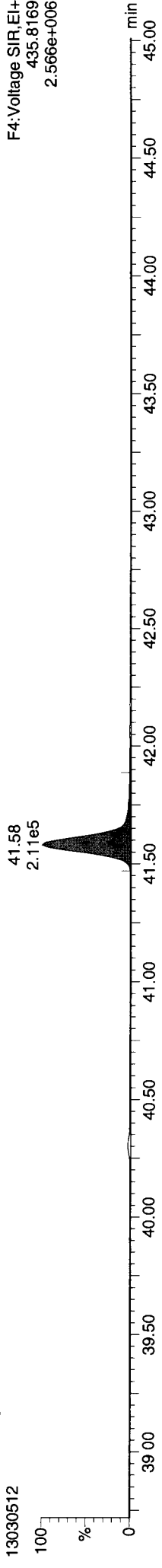
FUNCTION3 OCDFE



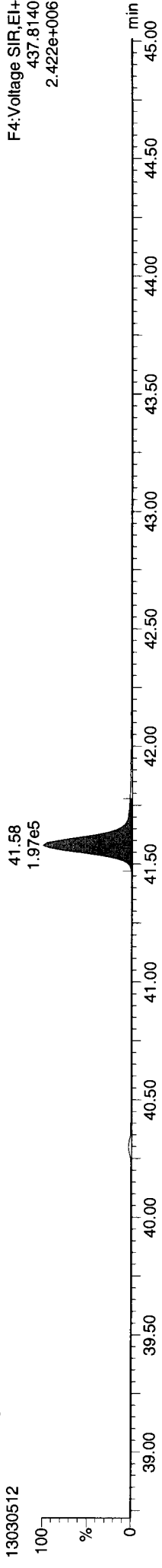
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

**ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk**

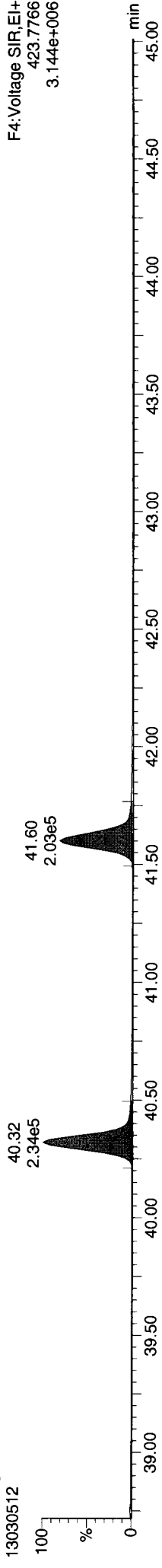
**13C-1234678-HpCDD**



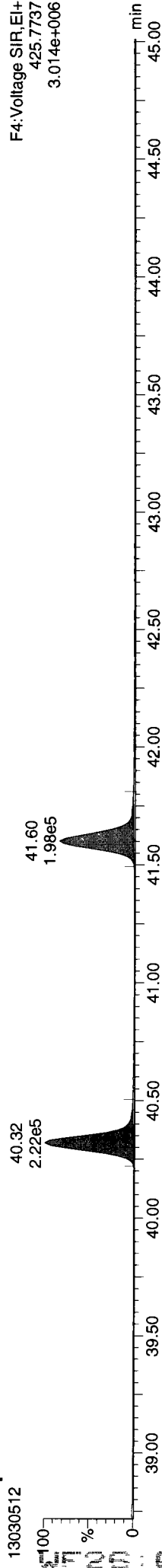
**13C-1234678-HpCDD**



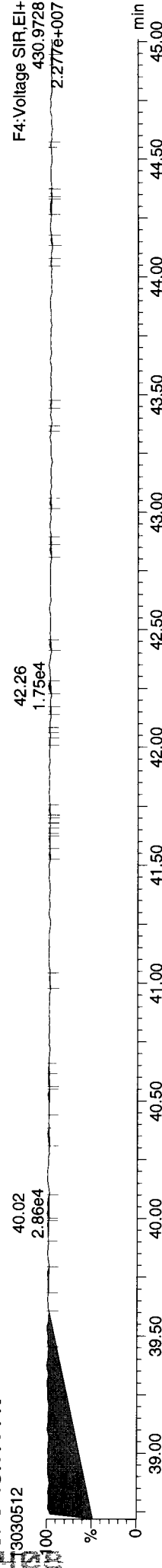
**Total-heptadiioxins**



**Total-heptadiioxins**



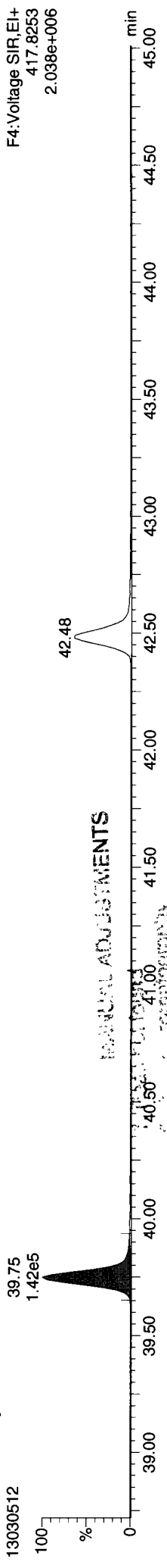
**FUNCTION4 PFK**



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

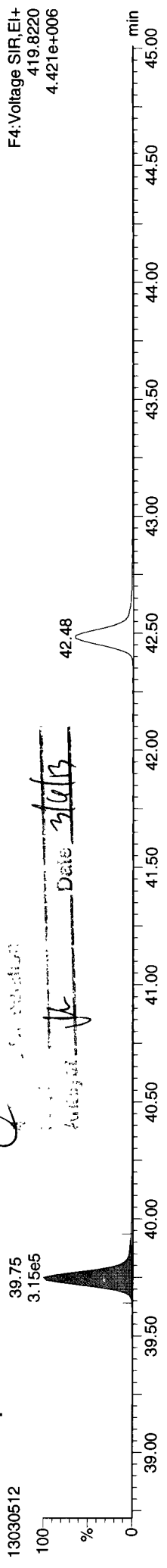
ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



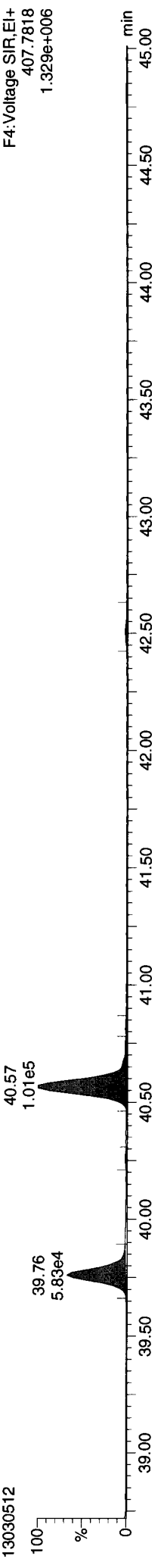
F4: Voltage SIR, EI+  
417.8253  
2.038e+006

13C-1234678-HpCDF



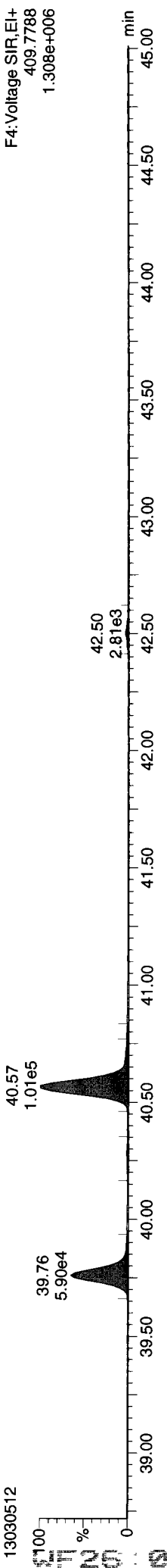
F4: Voltage SIR, EI+  
419.8220  
4.421e+006

Total-heptafurans



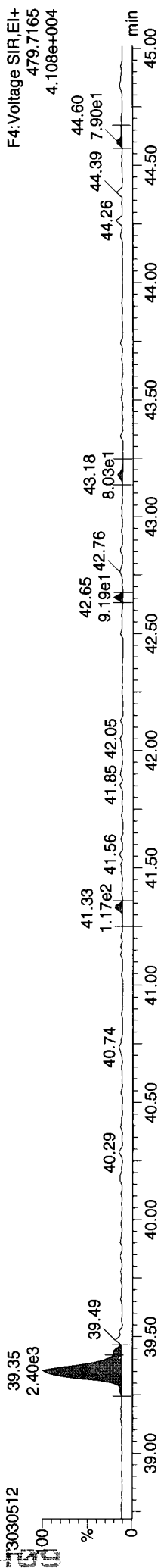
F4: Voltage SIR, EI+  
407.7818  
1.329e+006

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
1.308e+006

FUNCTION4 NCDPE

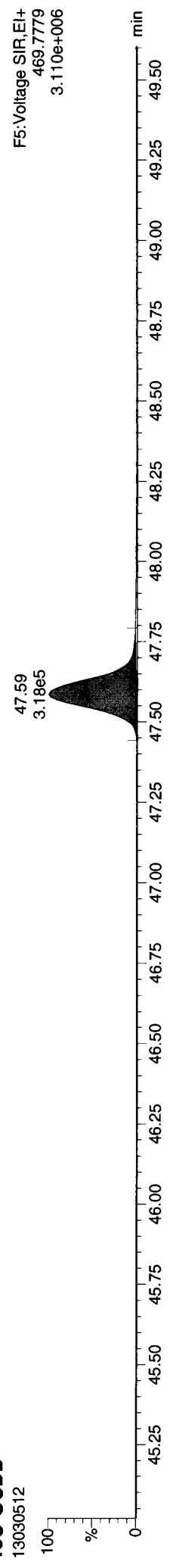


F4: Voltage SIR, EI+  
479.7165  
4.108e+004

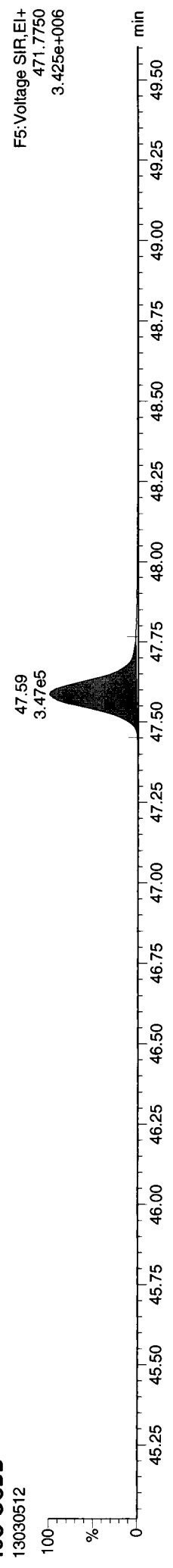
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

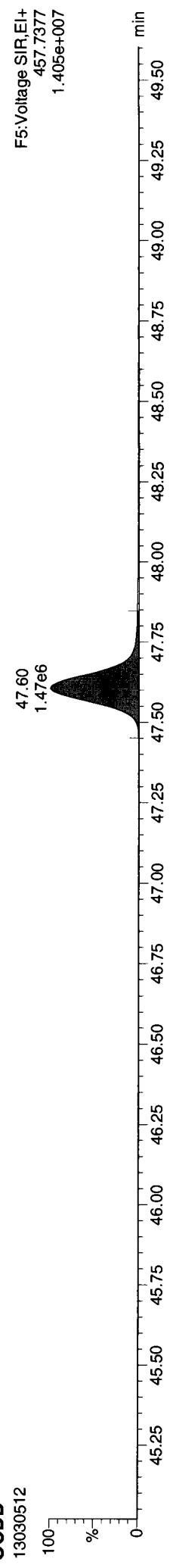
13C-OCDD  
13030512



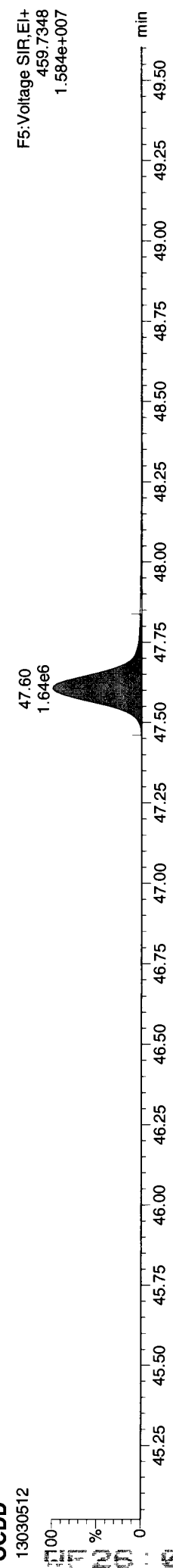
13C-OCDD  
13030512



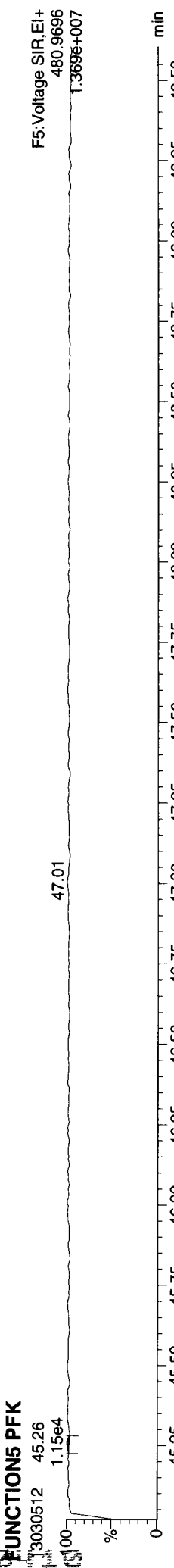
OCDD  
13030512



OCDD  
13030512



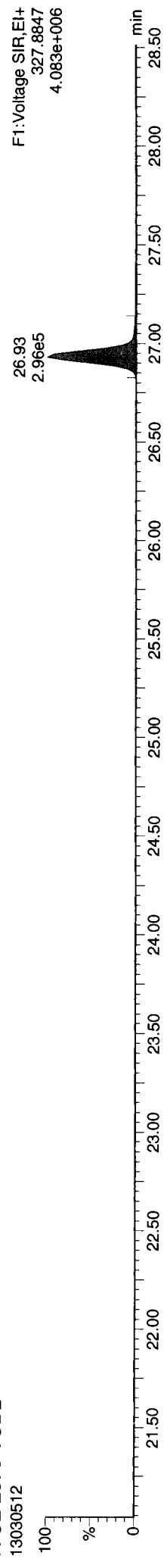
FUNCTION5 PFK  
13030512



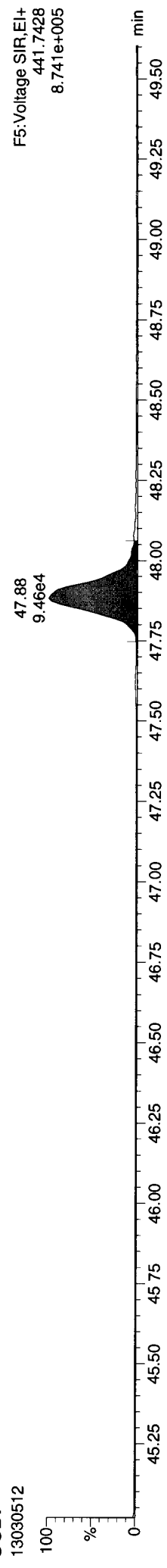
Quantity Sample Report  
Dataset: P:\DIOXIN8290.PROV130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:23:38 Pacific Standard Time

ID: WF26F, Name: 13030512, Date: 05-Mar-2013, Time: 21:24:39, Conditions: AUTOSPEC01, User: pk

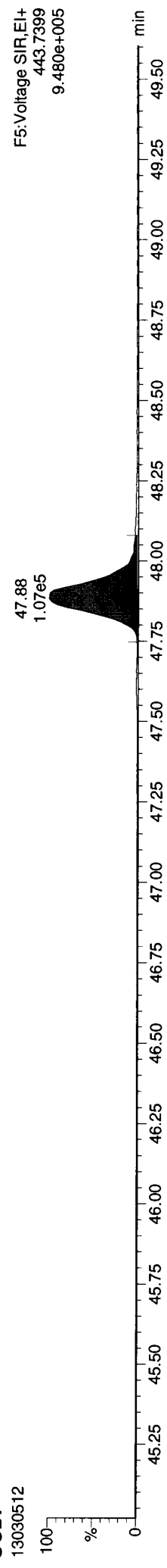
37CL-2378-TCDD  
13030512



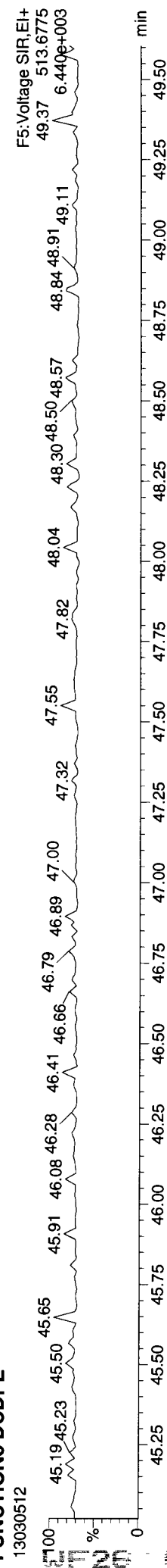
OCDF  
13030512



OCDF  
13030512



FUNCTION5 DCDPE  
13030512



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

Handwritten initials and date: *W 3/6/13*

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.272	1.000	1.44e3	1.96e3	0.921	0.733	0.770	8.2	2187	2041	1.80e4	2.25e4	NO	0.335
12378-PeCDF	30.420	1.000	1.99e3	1.23e3	0.912	1.618	1.550	8.1	3440	2213	2.80e4	2.33e4	NO	0.398
23478-PeCDF	31.791	1.001	9.72e3	6.60e3	0.943	1.472	1.550	37.8	3440	2213	1.30e5	1.08e5	NO	2.066
123478-HxCDF	35.463	1.001	3.94e4	3.22e4	1.101	1.226	1.240	124.7	4404	3261	5.49e5	4.38e5	NO	10.337
234678-HxCDF	36.515	0.999	1.89e4	1.55e4	1.073	1.216	1.240	39.6	4404	3261	1.74e5	1.53e5	NO	5.377
123678-HxCDF	35.605	1.000	1.24e4	1.05e4	1.056	1.179	1.240	34.0	4404	3261	1.50e5	1.38e5	NO	3.113
123789-HxCDF	37.666	1.000	2.11e3	1.86e3	1.017	1.135	1.240	6.1	4404	3261	2.69e4	2.49e4	NO	0.705
1234678-HpCDF	39.759	1.000	4.24e5	4.26e5	1.238	0.996	1.050	1400.3	4105	3488	5.75e6	5.75e6	NO	139.682
1234789-HpCDF	42.511	1.001	1.57e4	1.58e4	1.224	0.995	1.050	50.6	4105	3488	2.08e5	1.92e5	NO	6.916
OCDF	47.890	1.006	8.63e5	1.01e6	1.162	0.855	0.890	3073.8	2742	2900	8.43e6	9.78e6	NO	388.585
2378-TCDD	26.930	1.001	1.71e3	2.24e3	1.106	0.764	0.770	20.0	1217	1480	2.44e4	3.67e4	NO	0.484
12378-PeCDD	32.032	1.000	9.37e3	5.87e3	1.001	1.595	1.550	78.8	1695	3401	1.34e5	7.65e4	NO	2.766
123478-HxCDD	36.690	1.001	1.42e4	1.21e4	0.978	1.171	1.240	40.2	5090	3508	2.05e5	1.91e5	NO	5.143
123678-HxCDD	36.821	1.001	6.94e4	5.65e4	0.929	1.228	1.240	181.3	5090	3508	9.23e5	7.88e5	NO	22.903
123789-HxCDD	37.249	1.012	2.97e4	2.39e4	0.904	1.243	1.240	82.6	5090	3508	4.21e5	3.21e5	NO	10.632
1234678-HpCDD	41.601	1.001	1.60e6	1.55e6	1.029	1.030	1.050	1756.1	11520	10311	2.02e7	1.94e7	NO	679.093
OCDD	47.612	1.000	1.57e7	1.77e7	1.011	0.886	0.890	35741.8	4530	8839	1.62e8	1.84e8	NO	7972.423
13C-2378-TCDF	26.272	1.007	4.84e5	6.16e5	1.522	0.785	0.770	2960.8	2173	2241	6.43e6	8.34e6	NO	73.474
13C-12378-PeCDF	30.420	1.166	5.37e5	3.49e5	1.185	1.538	1.550	1326.5	5599	3863	7.43e6	4.79e6	NO	75.942
13C-23478-PeCDF	31.768	1.218	5.11e5	3.28e5	1.136	1.560	1.550	1236.4	5599	3863	6.92e6	4.39e6	NO	75.058
13C-123478-HxCDF	35.441	0.952	2.15e5	4.14e5	1.284	0.518	0.510	740.0	4056	4050	3.00e6	5.77e6	NO	81.027
13C-123678-HxCDF	35.594	0.956	2.32e5	4.63e5	1.383	0.501	0.510	778.8	4056	4050	3.16e6	6.19e6	NO	83.076
13C-234678-HxCDF	36.537	0.981	2.02e5	3.94e5	1.283	0.514	0.510	686.8	4056	4050	2.79e6	5.45e6	NO	76.855
13C-123789-HxCDF	37.666	1.012	1.89e5	3.66e5	1.099	0.517	0.510	677.9	4056	4050	2.75e6	5.24e6	NO	83.440
13C-1234678-HpCDF	39.748	1.068	1.55e5	3.37e5	1.070	0.458	0.440	966.9	2100	2906	2.03e6	4.45e6	NO	76.044
13C-1234789-HpCDF	42.489	1.141	1.13e5	2.60e5	0.774	0.435	0.440	633.2	2100	2906	1.33e6	2.98e6	NO	79.650
13C-1234-TCDD	26.093	0.000	4.31e5	5.53e5	1.000	0.779	0.770	1899.1	3223	1947	6.12e6	7.84e6	NO	100.000
13C-2378-TCDD	26.900	1.031	3.16e5	4.22e5	0.943	0.750	0.770	1316.1	3223	1947	4.24e6	5.57e6	NO	79.639
13C-12378-PeCDD	32.021	1.227	3.36e5	2.14e5	0.715	1.569	1.550	2134.8	2128	1825	4.54e6	2.88e6	NO	78.250
13C-123478-HxCDD	36.668	0.985	2.91e5	2.31e5	1.032	1.256	1.240	1408.8	2954	2757	4.16e6	3.30e6	NO	83.601
13C-123678-HxCDD	36.800	0.989	3.32e5	2.60e5	1.076	1.273	1.240	1487.2	2954	2757	4.39e6	3.35e6	NO	90.915
13C-1234678-HpCDD	41.579	1.117	2.31e5	2.19e5	0.838	1.055	1.050	1291.4	2221	1737	2.87e6	2.72e6	NO	88.976
13C-OCDD	47.594	1.278	3.88e5	4.41e5	0.675	0.881	0.890	1630.6	2420	1459	3.95e6	4.41e6	NO	202.962

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**Quantify Sample Summary Report**      **MassLynx 4.1 SCN 714**

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**

13C-123789-HxCDD	37.227	0.000	3.42e5	2.62e5	1.000	1.304	1.240	1593.0	2954	2757	4.71e6	3.66e6	NO	100.000
Total-tetrafurans			5.54e4		0.921				2187		7.41e5			12.249
Total-penta1			1.36e5						832		1.85e6			27.985
Total-pentafurans			8.17e4		0.927				3440		9.58e5			17.095
Total-hexafurans			5.16e5		1.062				4404		7.07e6			142.550
Total-heptafurans			1.34e6		1.231				4105		1.75e7			480.303
Total-Furans			2.99e6		1.065				2187		3.65e7			1068.838
Total-tetra-dioxins			2.45e4		1.106				1217		3.56e5			6.943
Total-penta-dioxins			1.61e5		1.001				1695		1.84e6			48.832
Total-hexa-dioxins			5.44e5		0.937				5090		6.60e6			187.163
Total-hepta-dioxins			3.46e6		1.029				11520		4.59e7			1474.573
Total-Dioxins			1.99e7		0.994				1217		2.17e8			9690.542
Total-TEQ			2.29e7						1217		2.53e8			10759.380
37CL-2378-TCDD	26.930	1.032	3.45e5		1.051			2524.1	1842		4.65e6			33.404
FUNCTION1 PFK			1.06e5						333295		1.69e6			0.000
FUNCTION2 PFK			2.80e5					142082	142082		6.44e6			0.000
FUNCTION3 PFK			4.32e5					290829	290829		1.37e7			0.000
FUNCTION4 PFK			2.29e5					205462	205462		6.51e6			0.000
FUNCTION5 PFK			0.00e0					163541	163541		0.00e0			0.000
FUNCTION1 HxCDPE			8.08e1					494	494		2.70e3			0.000
FUNCTION1 HPCDPE			9.74e2					960	960		1.92e4			0.000
FUNCTION2 HPCDPE			2.85e2					938	938		8.50e3			0.000
FUNCTION3 OCDPE			1.49e2					573	573		5.44e3			0.000
FUNCTION4 NCDPE			5.28e3					612	612		6.98e4			0.000
FUNCTION5 DCDPE			1.43e2					687	687		1.74e3			0.000

WF26G : 00410

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

D: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

TF

35	Total-tetrafurans	303.9016	25.38	3803.090	0.921	0.375		0.62	0.77	YES	7.2
35	Total-tetrafurans	303.9016	25.18	15924.808	0.921	1.572		0.81	0.77	NO	48.5
35	Total-tetrafurans	303.9016	25.03	3727.052	0.921	0.368		0.90	0.77	YES	12.0
35	Total-tetrafurans	303.9016	24.96	3943.345	0.921	0.389		0.53	0.77	YES	8.2
35	Total-tetrafurans	303.9016	24.76	302.825	0.921	0.030		0.34	0.77	YES	0.8
35	Total-tetrafurans	303.9016	24.52	2378.806	0.921	0.235		0.91	0.77	YES	8.0
35	Total-tetrafurans	303.9016	24.39	1160.548	0.921	0.115		0.72	0.77	NO	4.3
35	Total-tetrafurans	303.9016	24.29	15350.222	0.921	1.515		0.83	0.77	NO	39.3
35	Total-tetrafurans	303.9016	24.03	11016.048	0.921	1.087		1.10	0.77	YES	30.9
35	Total-tetrafurans	303.9016	23.93	2469.633	0.921	0.244		1.93	0.77	YES	12.1
35	Total-tetrafurans	303.9016	23.79	2756.720	0.921	0.272		1.16	0.77	YES	6.6
35	Total-tetrafurans	303.9016	23.63	37437.485	0.921	3.695		0.77	0.77	NO	99.0
35	Total-tetrafurans	303.9016	23.05	4965.540	0.921	0.490		0.75	0.77	NO	14.7
35	Total-tetrafurans	303.9016	22.78	2681.494	0.921	0.265		0.47	0.77	YES	5.0
35	Total-tetrafurans	303.9016	27.72	2752.017	0.921	0.272		0.57	0.77	YES	5.7
35	Total-tetrafurans	303.9016	26.53	4386.857	0.921	0.433		0.68	0.77	NO	8.2
35	Total-tetrafurans	303.9016	26.42	1506.210	0.921	0.149		0.85	0.77	NO	5.6
1	2378-TCDF	303.9016	26.27	3392.961	0.921	0.335	0.335	0.73	0.77	NO	8.2
35	Total-tetrafurans	303.9016	26.12	1132.743	0.921	0.112		0.81	0.77	NO	4.4
35	Total-tetrafurans	303.9016	26.08	1544.444	0.921	0.152		0.83	0.77	NO	4.5
35	Total-tetrafurans	303.9016	25.60	1461.490	0.921	0.144		0.96	0.77	YES	5.5

p

36	Total-penta1	339.8597	27.71	221180.914		27.985		1.60	1.55	NO	2223.8
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F

37	Total-pentafurans	339.8597	30.63	5282.113	0.927	0.661		1.38	1.55	NO	13.6
2	12378-PeCDF	339.8597	30.42	3212.347	0.912	0.398	0.398	1.62	1.55	NO	8.1
37	Total-pentafurans	339.8597	30.07	21254.556	0.927	2.659		1.61	1.55	NO	48.3
37	Total-pentafurans	339.8597	29.97	3841.513	0.927	0.481		1.59	1.55	NO	12.0
37	Total-pentafurans	339.8597	29.36	71457.037	0.927	8.939		1.46	1.55	NO	122.1
37	Total-pentafurans	339.8597	29.16	5808.766	0.927	0.727		1.21	1.55	YES	11.1
37	Total-pentafurans	339.8597	29.07	2508.095	0.927	0.314		1.17	1.55	YES	7.8
3	23478-PeCDF	339.8597	31.79	16324.632	0.943	2.066	2.066	1.47	1.55	NO	37.8
37	Total-pentafurans	339.8597	31.64	6806.791	0.927	0.852		2.01	1.55	YES	17.7

## Quantify Totals Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

D: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

## HF

38	Total-hexafurans	373.8208	35.30	7485.369	1.062	1.139		1.26	1.24	NO	12.2
38	Total-hexafurans	373.8208	34.99	1350.047	1.062	0.205		1.88	1.24	YES	6.0
38	Total-hexafurans	373.8208	34.80	383570.376	1.062	58.379		1.24	1.24	NO	654.6
38	Total-hexafurans	373.8208	34.49	10207.030	1.062	1.553		1.06	1.24	NO	17.3
38	Total-hexafurans	373.8208	34.30	3482.892	1.062	0.530		1.23	1.24	NO	6.4
38	Total-hexafurans	373.8208	33.95	298345.000	1.062	45.408		1.20	1.24	NO	518.7
38	Total-hexafurans	373.8208	33.73	99954.040	1.062	15.213		1.16	1.24	NO	179.5
7	123789-HxCDF	373.8208	37.67	3977.596	1.017	0.705	0.705	1.14	1.24	NO	6.1
5	234678-HxCDF	373.8208	36.51	34413.568	1.073	5.377	5.377	1.22	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.97	3874.077	1.062	0.590		1.08	1.24	NO	6.9
6	123678-HxCDF	373.8208	35.60	22837.298	1.056	3.113	3.113	1.18	1.24	NO	34.0
4	123478-HxCDF	373.8208	35.46	71633.223	1.101	10.337	10.337	1.23	1.24	NO	124.7

## HPF

9	1234789-HpCDF	407.7818	42.51	31535.815	1.224	6.916	6.916	1.00	1.05	NO	50.6
39	Total-heptafurans	407.7818	41.60	1836.318	1.231	0.345		2.01	1.05	YES	3.8
39	Total-heptafurans	407.7818	40.56	1758843.688	1.231	330.569		1.03	1.05	NO	2776.8
39	Total-heptafurans	407.7818	40.26	14843.707	1.231	2.790		1.05	1.05	NO	24.2
8	1234678-HpCDF	407.7818	39.76	850630.219	1.238	139.682	139.682	1.00	1.05	NO	1400.3

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Furans,TF,PP,PF,HF,HPF,OF

35	Total-tetrafurans	303.9016	25.38	3803.090	0.921	0.375		0.62	0.77	YES	7.2
35	Total-tetrafurans	303.9016	25.18	15924.808	0.921	1.572		0.81	0.77	NO	48.5
35	Total-tetrafurans	303.9016	25.03	3727.052	0.921	0.368		0.90	0.77	YES	12.0
35	Total-tetrafurans	303.9016	24.96	3943.345	0.921	0.389		0.53	0.77	YES	8.2
35	Total-tetrafurans	303.9016	24.76	302.825	0.921	0.030		0.34	0.77	YES	0.8
35	Total-tetrafurans	303.9016	24.52	2378.806	0.921	0.235		0.91	0.77	YES	8.0
35	Total-tetrafurans	303.9016	24.39	1160.548	0.921	0.115		0.72	0.77	NO	4.3
35	Total-tetrafurans	303.9016	24.29	15350.222	0.921	1.515		0.83	0.77	NO	39.3
35	Total-tetrafurans	303.9016	24.03	11016.048	0.921	1.087		1.10	0.77	YES	30.9
35	Total-tetrafurans	303.9016	23.93	2469.633	0.921	0.244		1.93	0.77	YES	12.1
35	Total-tetrafurans	303.9016	23.79	2756.720	0.921	0.272		1.16	0.77	YES	6.6
35	Total-tetrafurans	303.9016	23.63	37437.485	0.921	3.695		0.77	0.77	NO	99.0
35	Total-tetrafurans	303.9016	23.05	4965.540	0.921	0.490		0.75	0.77	NO	14.7
35	Total-tetrafurans	303.9016	22.78	2681.494	0.921	0.265		0.47	0.77	YES	5.0
40	Total-Furans	303.9016	28.39	842.024	1.065	0.072		1.25	0.77	YES	2.9
35	Total-tetrafurans	303.9016	27.72	2752.017	0.921	0.272		0.57	0.77	YES	5.7
35	Total-tetrafurans	303.9016	26.53	4386.857	0.921	0.433		0.68	0.77	NO	8.2
35	Total-tetrafurans	303.9016	26.42	1506.210	0.921	0.149		0.85	0.77	NO	5.6
1	2378-TCDF	303.9016	26.27	3392.961	0.921	0.335	0.335	0.73	0.77	NO	8.2
35	Total-tetrafurans	303.9016	26.12	1132.743	0.921	0.112		0.81	0.77	NO	4.4
35	Total-tetrafurans	303.9016	26.08	1544.444	0.921	0.152		0.83	0.77	NO	4.5
35	Total-tetrafurans	303.9016	25.60	1461.490	0.921	0.144		0.96	0.77	YES	5.5
37	Total-pentafurans	339.8597	30.63	5282.113	0.927	0.661		1.38	1.55	NO	13.6
2	12378-PeCDF	339.8597	30.42	3212.347	0.912	0.398	0.398	1.62	1.55	NO	8.1
37	Total-pentafurans	339.8597	30.07	21254.556	0.927	2.659		1.61	1.55	NO	48.3
37	Total-pentafurans	339.8597	29.97	3841.513	0.927	0.481		1.59	1.55	NO	12.0
37	Total-pentafurans	339.8597	29.36	71457.037	0.927	8.939		1.46	1.55	NO	122.1
37	Total-pentafurans	339.8597	29.16	5808.766	0.927	0.727		1.21	1.55	YES	11.1
37	Total-pentafurans	339.8597	29.07	2508.095	0.927	0.314		1.17	1.55	YES	7.8
3	23478-PeCDF	339.8597	31.79	16324.632	0.943	2.066	2.066	1.47	1.55	NO	37.8
37	Total-pentafurans	339.8597	31.64	6806.791	0.927	0.852		2.01	1.55	YES	17.7
38	Total-hexafurans	373.8208	35.30	7485.369	1.062	1.139		1.26	1.24	NO	12.2
38	Total-hexafurans	373.8208	34.99	1350.047	1.062	0.205		1.88	1.24	YES	6.0
38	Total-hexafurans	373.8208	34.80	383570.376	1.062	58.379		1.24	1.24	NO	654.6
38	Total-hexafurans	373.8208	34.49	10207.030	1.062	1.553		1.06	1.24	NO	17.3
38	Total-hexafurans	373.8208	34.30	3482.892	1.062	0.530		1.23	1.24	NO	6.4
38	Total-hexafurans	373.8208	33.95	298345.000	1.062	45.408		1.20	1.24	NO	518.7
38	Total-hexafurans	373.8208	33.73	99954.040	1.062	15.213		1.16	1.24	NO	179.5
7	123789-HxCDF	373.8208	37.67	3977.596	1.017	0.705	0.705	1.14	1.24	NO	6.1
5	234678-HxCDF	373.8208	36.51	34413.568	1.073	5.377	5.377	1.22	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.97	3874.077	1.062	0.590		1.08	1.24	NO	6.9
6	123678-HxCDF	373.8208	35.60	22837.298	1.056	3.113	3.113	1.18	1.24	NO	34.0
4	123478-HxCDF	373.8208	35.46	71633.223	1.101	10.337	10.337	1.23	1.24	NO	124.7
9	1234789-HpCDF	407.7818	42.51	31535.815	1.224	6.916	6.916	1.00	1.05	NO	50.6
39	Total-heptafurans	407.7818	41.60	1836.318	1.231	0.345		2.01	1.05	YES	3.8
39	Total-heptafurans	407.7818	40.56	1758843.688	1.231	330.569		1.03	1.05	NO	2776.8
39	Total-heptafurans	407.7818	40.26	14843.707	1.231	2.790		1.05	1.05	NO	24.2
8	1234678-HpCDF	407.7818	39.76	850630.219	1.238	139.682	139.682	1.00	1.05	NO	1400.3
10	OCDF	441.7428	47.89	1872288.313	1.162	388.585	388.585	0.85	0.89	NO	3073.8

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Furans,TF,PP,PF,HF,HPF,OF

36	Total-penta1	339.8597	27.71	221180.914	27.985	1.60	1.55	NO	2223.8
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TD

41	Total-tetradoxins	319.8965	25.54	9029.932	1.106	1.105	0.78	0.77	NO	48.2	
41	Total-tetradoxins	319.8965	25.26	2282.477	1.106	0.279	0.71	0.77	NO	9.6	
41	Total-tetradoxins	319.8965	25.03	3022.239	1.106	0.370	1.20	0.77	YES	17.1	
41	Total-tetradoxins	319.8965	24.55	1544.778	1.106	0.189	0.65	0.77	YES	7.5	
41	Total-tetradoxins	319.8965	24.33	9735.988	1.106	1.192	0.80	0.77	NO	60.2	
41	Total-tetradoxins	319.8965	24.06	10781.761	1.106	1.320	0.87	0.77	NO	56.8	
41	Total-tetradoxins	319.8965	27.54	1219.151	1.106	0.149	0.41	0.77	YES	4.2	
41	Total-tetradoxins	319.8965	27.05	3554.483	1.106	0.435	0.58	0.77	YES	17.2	
11	2378-TCDD	319.8965	26.93	3950.249	1.106	0.484	0.484	0.76	0.77	NO	20.0
41	Total-tetradoxins	319.8965	26.57	1723.142	1.106	0.211	0.67	0.77	NO	9.5	
41	Total-tetradoxins	319.8965	26.23	1113.908	1.106	0.136	1.05	0.77	YES	7.9	
41	Total-tetradoxins	319.8965	26.12	5904.062	1.106	0.723	0.55	0.77	YES	20.4	
41	Total-tetradoxins	319.8965	25.90	2226.164	1.106	0.272	0.89	0.77	YES	10.6	
41	Total-tetradoxins	319.8965	25.81	634.708	1.106	0.078	0.41	0.77	YES	3.3	

PD

42	Total-pentadioxins	355.8546	30.79	6235.267	1.001	1.131	1.16	1.55	YES	32.9	
42	Total-pentadioxins	355.8546	30.65	25595.830	1.001	4.644	1.31	1.55	YES	103.5	
42	Total-pentadioxins	355.8546	30.44	13212.557	1.001	2.397	1.51	1.55	NO	69.8	
42	Total-pentadioxins	355.8546	29.81	2970.097	1.001	0.539	1.42	1.55	NO	18.2	
42	Total-pentadioxins	355.8546	29.26	193794.656	1.001	35.162	1.54	1.55	NO	714.7	
42	Total-pentadioxins	355.8546	32.43	2309.647	1.001	0.419	1.34	1.55	NO	11.1	
12	12378-PeCDD	355.8546	32.03	15243.729	1.001	2.766	2.766	1.60	1.55	NO	78.8
42	Total-pentadioxins	355.8546	31.37	4699.512	1.001	0.853	1.74	1.55	NO	24.4	
42	Total-pentadioxins	355.8546	30.97	3412.438	1.001	0.619	1.23	1.55	YES	20.0	
42	Total-pentadioxins	355.8546	30.92	1664.134	1.001	0.302	0.65	1.55	YES	11.8	

HD

15	123789-HxCDD	389.8157	37.25	53548.443	0.904	10.632	10.632	1.24	1.24	NO	82.6
43	Total-hexadioxins	389.8157	37.01	9568.042	0.937	1.833	1.44	1.24	YES	13.3	
14	123678-HxCDD	389.8157	36.82	125985.575	0.929	22.903	22.903	1.23	1.24	NO	181.3
13	123478-HxCDD	389.8157	36.69	26241.741	0.978	5.143	5.143	1.17	1.24	NO	40.2
43	Total-hexadioxins	389.8157	35.73	363813.031	0.937	69.710	1.25	1.24	NO	365.0	
43	Total-hexadioxins	389.8157	35.34	38367.339	0.937	7.352	1.20	1.24	NO	54.4	
43	Total-hexadioxins	389.8157	34.53	363179.969	0.937	69.589	1.24	1.24	NO	559.3	

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## HPD

16	1234678-HpCDD	423.7766	41.60	3149315.125	1.029	679.093	679....	1.03	1.05	NO	1756.1
44	Total-heptadioxins	423.7766	40.32	3689067.875	1.029	795.480		1.01	1.05	NO	2225.6

## Dioxins,TD,PD,HD,HPD,OD

41	Total-tetradoxins	319.8965	25.54	9029.932	1.106	1.105		0.78	0.77	NO	48.2
41	Total-tetradoxins	319.8965	25.26	2282.477	1.106	0.279		0.71	0.77	NO	9.6
41	Total-tetradoxins	319.8965	25.03	3022.239	1.106	0.370		1.20	0.77	YES	17.1
41	Total-tetradoxins	319.8965	24.55	1544.778	1.106	0.189		0.65	0.77	YES	7.5
41	Total-tetradoxins	319.8965	24.33	9735.988	1.106	1.192		0.80	0.77	NO	60.2
41	Total-tetradoxins	319.8965	24.06	10781.761	1.106	1.320		0.87	0.77	NO	56.8
45	Total-Dioxins	319.8965	23.43	3772.703	0.994	0.514		0.89	0.77	YES	21.7
45	Total-Dioxins	319.8965	27.83	689.249	0.994	0.094		0.35	0.77	YES	3.2
41	Total-tetradoxins	319.8965	27.54	1219.151	1.106	0.149		0.41	0.77	YES	4.2
41	Total-tetradoxins	319.8965	27.05	3554.483	1.106	0.435		0.58	0.77	YES	17.2
11	2378-TCDD	319.8965	26.93	3950.249	1.106	0.484	0.484	0.76	0.77	NO	20.0
41	Total-tetradoxins	319.8965	26.57	1723.142	1.106	0.211		0.67	0.77	NO	9.5
41	Total-tetradoxins	319.8965	26.23	1113.908	1.106	0.136		1.05	0.77	YES	7.9
41	Total-tetradoxins	319.8965	26.12	5904.062	1.106	0.723		0.55	0.77	YES	20.4
41	Total-tetradoxins	319.8965	25.90	2226.164	1.106	0.272		0.89	0.77	YES	10.6
41	Total-tetradoxins	319.8965	25.81	634.708	1.106	0.078		0.41	0.77	YES	3.3
42	Total-pentadioxins	355.8546	30.79	6235.267	1.001	1.131		1.16	1.55	YES	32.9
42	Total-pentadioxins	355.8546	30.65	25595.830	1.001	4.644		1.31	1.55	YES	103.5
42	Total-pentadioxins	355.8546	30.44	13212.557	1.001	2.397		1.51	1.55	NO	69.8
42	Total-pentadioxins	355.8546	29.81	2970.097	1.001	0.539		1.42	1.55	NO	18.2
42	Total-pentadioxins	355.8546	29.26	193794.656	1.001	35.162		1.54	1.55	NO	714.7
42	Total-pentadioxins	355.8546	32.43	2309.647	1.001	0.419		1.34	1.55	NO	11.1
12	12378-PeCDD	355.8546	32.03	15243.729	1.001	2.766	2.766	1.60	1.55	NO	78.8
42	Total-pentadioxins	355.8546	31.37	4699.512	1.001	0.853		1.74	1.55	NO	24.4
42	Total-pentadioxins	355.8546	30.97	3412.438	1.001	0.619		1.23	1.55	YES	20.0
42	Total-pentadioxins	355.8546	30.92	1664.134	1.001	0.302		0.65	1.55	YES	11.8
15	123789-HxCDD	389.8157	37.25	53548.443	0.904	10.632	10.632	1.24	1.24	NO	82.6
43	Total-hexadioxins	389.8157	37.01	9568.042	0.937	1.833		1.44	1.24	YES	13.3
14	123678-HxCDD	389.8157	36.82	125985.575	0.929	22.903	22.903	1.23	1.24	NO	181.3
13	123478-HxCDD	389.8157	36.69	26241.741	0.978	5.143	5.143	1.17	1.24	NO	40.2
43	Total-hexadioxins	389.8157	35.73	363813.031	0.937	69.710		1.25	1.24	NO	365.0
43	Total-hexadioxins	389.8157	35.34	38367.339	0.937	7.352		1.20	1.24	NO	54.4
43	Total-hexadioxins	389.8157	34.53	363179.969	0.937	69.589		1.24	1.24	NO	559.3
17	OCDD	457.7377	47.61	33427770....	1.011	7972.4...	7972...	0.89	0.89	NO	35741.8
16	1234678-HpCDD	423.7766	41.60	3149315.125	1.029	679.093	679....	1.03	1.05	NO	1756.1
44	Total-heptadioxins	423.7766	40.32	3689067.875	1.029	795.480		1.01	1.05	NO	2225.6

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TotalTEQ,Furans,Dioxins

35	Total-tetrafurans	303.9016	25.38	3803.090	0.921	0.375	0.62	0.77	YES	7.2	
35	Total-tetrafurans	303.9016	25.18	15924.808	0.921	1.572	0.81	0.77	NO	48.5	
35	Total-tetrafurans	303.9016	25.03	3727.052	0.921	0.368	0.90	0.77	YES	12.0	
35	Total-tetrafurans	303.9016	24.96	3943.345	0.921	0.389	0.53	0.77	YES	8.2	
35	Total-tetrafurans	303.9016	24.76	302.825	0.921	0.030	0.34	0.77	YES	0.8	
35	Total-tetrafurans	303.9016	24.52	2378.806	0.921	0.235	0.91	0.77	YES	8.0	
35	Total-tetrafurans	303.9016	24.39	1160.548	0.921	0.115	0.72	0.77	NO	4.3	
35	Total-tetrafurans	303.9016	24.29	15350.222	0.921	1.515	0.83	0.77	NO	39.3	
35	Total-tetrafurans	303.9016	24.03	11016.048	0.921	1.087	1.10	0.77	YES	30.9	
35	Total-tetrafurans	303.9016	23.93	2469.633	0.921	0.244	1.93	0.77	YES	12.1	
35	Total-tetrafurans	303.9016	23.79	2756.720	0.921	0.272	1.16	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	23.63	37437.485	0.921	3.695	0.77	0.77	NO	99.0	
35	Total-tetrafurans	303.9016	23.05	4965.540	0.921	0.490	0.75	0.77	NO	14.7	
35	Total-tetrafurans	303.9016	22.78	2681.494	0.921	0.265	0.47	0.77	YES	5.0	
40	Total-Furans	303.9016	28.39	842.024	1.065	0.072	1.25	0.77	YES	2.9	
35	Total-tetrafurans	303.9016	27.72	2752.017	0.921	0.272	0.57	0.77	YES	5.7	
35	Total-tetrafurans	303.9016	26.53	4386.857	0.921	0.433	0.68	0.77	NO	8.2	
35	Total-tetrafurans	303.9016	26.42	1506.210	0.921	0.149	0.85	0.77	NO	5.6	
1	2378-TCDF	303.9016	26.27	3392.961	0.921	0.335	0.335	0.73	0.77	NO	8.2
35	Total-tetrafurans	303.9016	26.12	1132.743	0.921	0.112	0.81	0.77	NO	4.4	
35	Total-tetrafurans	303.9016	26.08	1544.444	0.921	0.152	0.83	0.77	NO	4.5	
35	Total-tetrafurans	303.9016	25.60	1461.490	0.921	0.144	0.96	0.77	YES	5.5	
37	Total-pentafurans	339.8597	30.63	5282.113	0.927	0.661	1.38	1.55	NO	13.6	
2	12378-PeCDF	339.8597	30.42	3212.347	0.912	0.398	0.398	1.62	1.55	NO	8.1
37	Total-pentafurans	339.8597	30.07	21254.556	0.927	2.659	1.61	1.55	NO	48.3	
37	Total-pentafurans	339.8597	29.97	3841.513	0.927	0.481	1.59	1.55	NO	12.0	
37	Total-pentafurans	339.8597	29.36	71457.037	0.927	8.939	1.46	1.55	NO	122.1	
37	Total-pentafurans	339.8597	29.16	5808.766	0.927	0.727	1.21	1.55	YES	11.1	
37	Total-pentafurans	339.8597	29.07	2508.095	0.927	0.314	1.17	1.55	YES	7.8	
3	23478-PeCDF	339.8597	31.79	16324.632	0.943	2.066	2.066	1.47	1.55	NO	37.8
37	Total-pentafurans	339.8597	31.64	6806.791	0.927	0.852	2.01	1.55	YES	17.7	
38	Total-hexafurans	373.8208	35.30	7485.369	1.062	1.139	1.26	1.24	NO	12.2	
38	Total-hexafurans	373.8208	34.99	1350.047	1.062	0.205	1.88	1.24	YES	6.0	
38	Total-hexafurans	373.8208	34.80	383570.376	1.062	58.379	1.24	1.24	NO	654.6	
38	Total-hexafurans	373.8208	34.49	10207.030	1.062	1.553	1.06	1.24	NO	17.3	
38	Total-hexafurans	373.8208	34.30	3482.892	1.062	0.530	1.23	1.24	NO	6.4	
38	Total-hexafurans	373.8208	33.95	298345.000	1.062	45.408	1.20	1.24	NO	518.7	
38	Total-hexafurans	373.8208	33.73	99954.040	1.062	15.213	1.16	1.24	NO	179.5	
7	123789-HxCDF	373.8208	37.67	3977.596	1.017	0.705	0.705	1.14	1.24	NO	6.1
5	234678-HxCDF	373.8208	36.51	34413.568	1.073	5.377	5.377	1.22	1.24	NO	39.6
38	Total-hexafurans	373.8208	35.97	3874.077	1.062	0.590	1.08	1.24	NO	6.9	
6	123678-HxCDF	373.8208	35.60	22837.298	1.056	3.113	3.113	1.18	1.24	NO	34.0
4	123478-HxCDF	373.8208	35.46	71633.223	1.101	10.337	10.337	1.23	1.24	NO	124.7
9	1234789-HpCDF	407.7818	42.51	31535.815	1.224	6.916	6.916	1.00	1.05	NO	50.6
39	Total-heptafurans	407.7818	41.60	1836.318	1.231	0.345	2.01	1.05	YES	3.8	
39	Total-heptafurans	407.7818	40.56	1758843.688	1.231	330.569	1.03	1.05	NO	2776.8	
39	Total-heptafurans	407.7818	40.26	14843.707	1.231	2.790	1.05	1.05	NO	24.2	
8	1234678-HpCDF	407.7818	39.76	850630.219	1.238	139.682	139.682	1.00	1.05	NO	1400.3
10	OCDF	441.7428	47.89	1872288.313	1.162	388.585	388.585	0.85	0.89	NO	3073.8

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
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ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

ID	Name	Area	RT	Abundance	RT	Abundance	RT	Abundance	Y/N	Abundance	
36	Total-penta1	339.8597	27.71	221180.914		27.985		1.60	1.55	NO	2223.8
41	Total-tetradioxins	319.8965	25.54	9029.932	1.106	1.105		0.78	0.77	NO	48.2
41	Total-tetradioxins	319.8965	25.26	2282.477	1.106	0.279		0.71	0.77	NO	9.6
41	Total-tetradioxins	319.8965	25.03	3022.239	1.106	0.370		1.20	0.77	YES	17.1
41	Total-tetradioxins	319.8965	24.55	1544.778	1.106	0.189		0.65	0.77	YES	7.5
41	Total-tetradioxins	319.8965	24.33	9735.988	1.106	1.192		0.80	0.77	NO	60.2
41	Total-tetradioxins	319.8965	24.06	10781.761	1.106	1.320		0.87	0.77	NO	56.8
45	Total-Dioxins	319.8965	23.43	3772.703	0.994	0.514		0.89	0.77	YES	21.7
45	Total-Dioxins	319.8965	27.83	689.249	0.994	0.094		0.35	0.77	YES	3.2
41	Total-tetradioxins	319.8965	27.54	1219.151	1.106	0.149		0.41	0.77	YES	4.2
41	Total-tetradioxins	319.8965	27.05	3554.483	1.106	0.435		0.58	0.77	YES	17.2
11	2378-TCDD	319.8965	26.93	3950.249	1.106	0.484	0.484	0.76	0.77	NO	20.0
41	Total-tetradioxins	319.8965	26.57	1723.142	1.106	0.211		0.67	0.77	NO	9.5
41	Total-tetradioxins	319.8965	26.23	1113.908	1.106	0.136		1.05	0.77	YES	7.9
41	Total-tetradioxins	319.8965	26.12	5904.062	1.106	0.723		0.55	0.77	YES	20.4
41	Total-tetradioxins	319.8965	25.90	2226.164	1.106	0.272		0.89	0.77	YES	10.6
41	Total-tetradioxins	319.8965	25.81	634.708	1.106	0.078		0.41	0.77	YES	3.3
42	Total-pentadioxins	355.8546	30.79	6235.267	1.001	1.131		1.16	1.55	YES	32.9
42	Total-pentadioxins	355.8546	30.65	25595.830	1.001	4.644		1.31	1.55	YES	103.5
42	Total-pentadioxins	355.8546	30.44	13212.557	1.001	2.397		1.51	1.55	NO	69.8
42	Total-pentadioxins	355.8546	29.81	2970.097	1.001	0.539		1.42	1.55	NO	18.2
42	Total-pentadioxins	355.8546	29.26	193794.656	1.001	35.162		1.54	1.55	NO	714.7
42	Total-pentadioxins	355.8546	32.43	2309.647	1.001	0.419		1.34	1.55	NO	11.1
12	12378-PeCDD	355.8546	32.03	15243.729	1.001	2.766	2.766	1.60	1.55	NO	78.8
42	Total-pentadioxins	355.8546	31.37	4699.512	1.001	0.853		1.74	1.55	NO	24.4
42	Total-pentadioxins	355.8546	30.97	3412.438	1.001	0.619		1.23	1.55	YES	20.0
42	Total-pentadioxins	355.8546	30.92	1664.134	1.001	0.302		0.65	1.55	YES	11.8
15	123789-HxCDD	389.8157	37.25	53548.443	0.904	10.632	10.632	1.24	1.24	NO	82.6
43	Total-hexadioxins	389.8157	37.01	9568.042	0.937	1.833		1.44	1.24	YES	13.3
14	123678-HxCDD	389.8157	36.82	125985.575	0.929	22.903	22.903	1.23	1.24	NO	181.3
13	123478-HxCDD	389.8157	36.69	26241.741	0.978	5.143	5.143	1.17	1.24	NO	40.2
43	Total-hexadioxins	389.8157	35.73	363813.031	0.937	69.710		1.25	1.24	NO	365.0
43	Total-hexadioxins	389.8157	35.34	38367.339	0.937	7.352		1.20	1.24	NO	54.4
43	Total-hexadioxins	389.8157	34.53	363179.969	0.937	69.589		1.24	1.24	NO	559.3
17	OCDD	457.7377	47.61	33427770....	1.011	7972.4...	7972...	0.89	0.89	NO	35741.8
16	1234678-HpCDD	423.7766	41.60	3149315.125	1.029	679.093	679....	1.03	1.05	NO	1756.1
44	Total-heptadioxins	423.7766	40.32	3689067.875	1.029	795.480		1.01	1.05	NO	2225.6

## PFK1

ID	Name	Area	RT	Abundance
48	FUNCTION1 PFK	330.9792	21.88	0.000
				5.1



## Quantify Totals Report MassLynx 4.1 SCN 714

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## PFK2

Retention Time	Abundance	Area	Height	Width	Integration	Signal-to-Noise	Peak Number
49	FUNCTION2 PFK	366.9792	29.04	0.000	0.000		0.9
49	FUNCTION2 PFK	366.9792	28.88	0.000	0.000		1.2
49	FUNCTION2 PFK	366.9792	28.75	0.000	0.000		1.6
49	FUNCTION2 PFK	366.9792	28.60	0.000	0.000		2.0
49	FUNCTION2 PFK	366.9792	31.88	0.000	0.000		1.5
49	FUNCTION2 PFK	366.9792	31.81	0.000	0.000		1.6
49	FUNCTION2 PFK	366.9792	31.67	0.000	0.000		1.2
49	FUNCTION2 PFK	366.9792	31.55	0.000	0.000		3.1
49	FUNCTION2 PFK	366.9792	31.46	0.000	0.000		2.3
49	FUNCTION2 PFK	366.9792	31.23	0.000	0.000		0.8
49	FUNCTION2 PFK	366.9792	31.06	0.000	0.000		1.0
49	FUNCTION2 PFK	366.9792	31.00	0.000	0.000		1.8
49	FUNCTION2 PFK	366.9792	30.83	0.000	0.000		0.7
49	FUNCTION2 PFK	366.9792	30.68	0.000	0.000		1.6
49	FUNCTION2 PFK	366.9792	30.30	0.000	0.000		2.3
49	FUNCTION2 PFK	366.9792	29.92	0.000	0.000		3.0
49	FUNCTION2 PFK	366.9792	29.81	0.000	0.000		2.9
49	FUNCTION2 PFK	366.9792	29.58	0.000	0.000		1.9
49	FUNCTION2 PFK	366.9792	29.35	0.000	0.000		1.6
49	FUNCTION2 PFK	366.9792	29.09	0.000	0.000		1.5
49	FUNCTION2 PFK	366.9792	33.06	0.000	0.000		0.9
49	FUNCTION2 PFK	366.9792	33.00	0.000	0.000		1.4
49	FUNCTION2 PFK	366.9792	32.71	0.000	0.000		1.2
49	FUNCTION2 PFK	366.9792	32.65	0.000	0.000		1.7
49	FUNCTION2 PFK	366.9792	32.35	0.000	0.000		0.7
49	FUNCTION2 PFK	366.9792	32.23	0.000	0.000		0.4
49	FUNCTION2 PFK	366.9792	32.02	0.000	0.000		1.8
49	FUNCTION2 PFK	366.9792	31.98	0.000	0.000		1.7
49	FUNCTION2 PFK	366.9792	31.92	0.000	0.000		1.3

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
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PFK3

50 FUNCTION3 PFK	380.9760	34.00	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	33.90	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	33.80	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	33.72	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	33.41	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	33.20	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	35.96	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	35.89	0.000	0.000	1.6
50 FUNCTION3 PFK	380.9760	35.86	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	35.45	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	35.29	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	35.09	0.000	0.000	0.5
50 FUNCTION3 PFK	380.9760	35.02	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	34.74	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	34.70	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	34.62	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	34.54	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	34.45	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	34.28	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	34.25	0.000	0.000	0.5
50 FUNCTION3 PFK	380.9760	34.20	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	34.09	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	38.01	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	37.97	0.000	0.000	2.2
50 FUNCTION3 PFK	380.9760	37.94	0.000	0.000	1.8
50 FUNCTION3 PFK	380.9760	37.86	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	37.70	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	37.41	0.000	0.000	1.3
50 FUNCTION3 PFK	380.9760	37.34	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	37.30	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	37.18	0.000	0.000	0.3
50 FUNCTION3 PFK	380.9760	37.14	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	36.96	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	36.90	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	36.80	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	36.57	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	36.21	0.000	0.000	2.3
50 FUNCTION3 PFK	380.9760	36.13	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	38.65	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	38.44	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	38.29	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	38.20	0.000	0.000	0.4

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PFK4

#	Name	Trace	RT	Abs. Peak	Area	EMPC	Height	Area	Area
51	FUNCTION4 PFK	430.9728	41.18	0.000					1.4
51	FUNCTION4 PFK	430.9728	40.84	0.000					1.4
51	FUNCTION4 PFK	430.9728	40.76	0.000					0.8
51	FUNCTION4 PFK	430.9728	40.71	0.000					1.4
51	FUNCTION4 PFK	430.9728	40.22	0.000					0.5
51	FUNCTION4 PFK	430.9728	39.85	0.000					1.8
51	FUNCTION4 PFK	430.9728	39.45	0.000					0.7
51	FUNCTION4 PFK	430.9728	39.35	0.000					0.5
51	FUNCTION4 PFK	430.9728	39.30	0.000					0.5
51	FUNCTION4 PFK	430.9728	39.10	0.000					1.4
51	FUNCTION4 PFK	430.9728	38.97	0.000					0.5
51	FUNCTION4 PFK	430.9728	44.98	0.000					0.9
51	FUNCTION4 PFK	430.9728	44.83	0.000					1.3
51	FUNCTION4 PFK	430.9728	43.91	0.000					0.7
51	FUNCTION4 PFK	430.9728	43.66	0.000					1.1
51	FUNCTION4 PFK	430.9728	43.48	0.000					1.0
51	FUNCTION4 PFK	430.9728	43.26	0.000					1.8
51	FUNCTION4 PFK	430.9728	42.92	0.000					1.8
51	FUNCTION4 PFK	430.9728	42.62	0.000					1.2
51	FUNCTION4 PFK	430.9728	42.46	0.000					2.0
51	FUNCTION4 PFK	430.9728	42.40	0.000					1.6
51	FUNCTION4 PFK	430.9728	41.90	0.000					2.5
51	FUNCTION4 PFK	430.9728	41.75	0.000					1.4
51	FUNCTION4 PFK	430.9728	41.60	0.000					2.3
51	FUNCTION4 PFK	430.9728	41.44	0.000					1.0

PFK5

#	Name	Trace	RT	Abs. Peak	Area	EMPC	Height	Area	Area

ETHERS1

#	Name	Trace	RT	Abs. Peak	Area	EMPC	Height	Area	Area
53	FUNCTION1 HXCD...	375.8364	21.86	0.000	0.000				5.5

ETHERS2

#	Name	Trace	RT	Abs. Peak	Area	EMPC	Height	Area	Area
54	FUNCTION1 HPCD...	409.7974	27.50	0.000	0.000				1.0
54	FUNCTION1 HPCD...	409.7974	27.09	0.000	0.000				2.7
54	FUNCTION1 HPCD...	409.7974	26.77	0.000	0.000				1.6
54	FUNCTION1 HPCD...	409.7974	26.12	0.000	0.000				1.5
54	FUNCTION1 HPCD...	409.7974	24.72	0.000	0.000				5.0
54	FUNCTION1 HPCD...	409.7974	24.00	0.000	0.000				3.0
54	FUNCTION1 HPCD...	409.7974	23.22	0.000	0.000				2.2
54	FUNCTION1 HPCD...	409.7974	21.28	0.000	0.000				3.1

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**ETHERS3**

55	FUNCTION2 HPCD...	409.7974	32.79	0.000	0.000	2.5
55	FUNCTION2 HPCD...	409.7974	31.06	0.000	0.000	2.2
55	FUNCTION2 HPCD...	409.7974	30.85	0.000	0.000	4.3

**ETHERS4**

56	FUNCTION3 OCDPE	445.7555	34.30	0.000	0.000	4.3
56	FUNCTION3 OCDPE	445.7555	36.70	0.000	0.000	5.2

**ETHERS5**

57	FUNCTION4 NCDPE	479.7165	39.34	0.000	0.000	114.1
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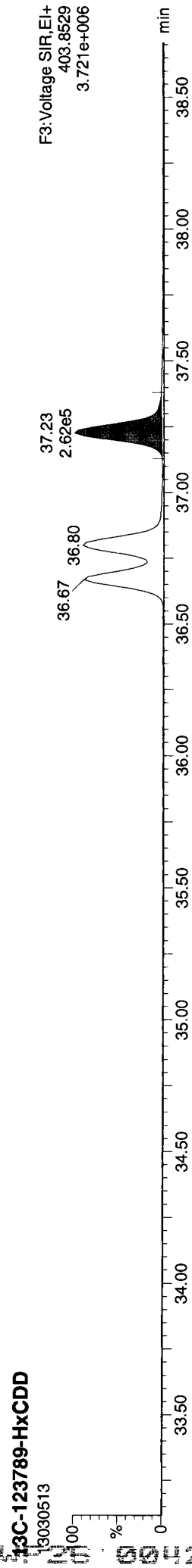
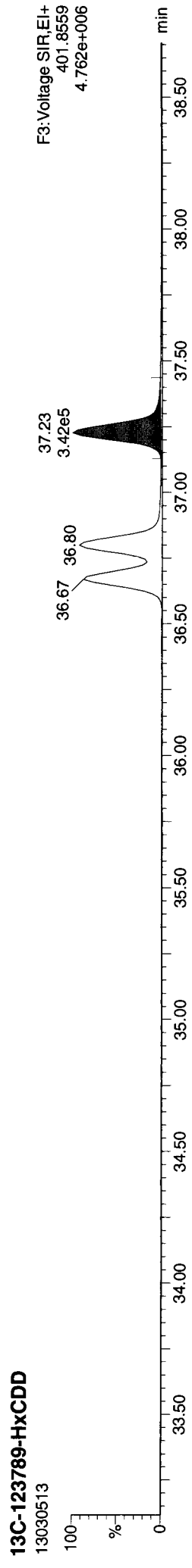
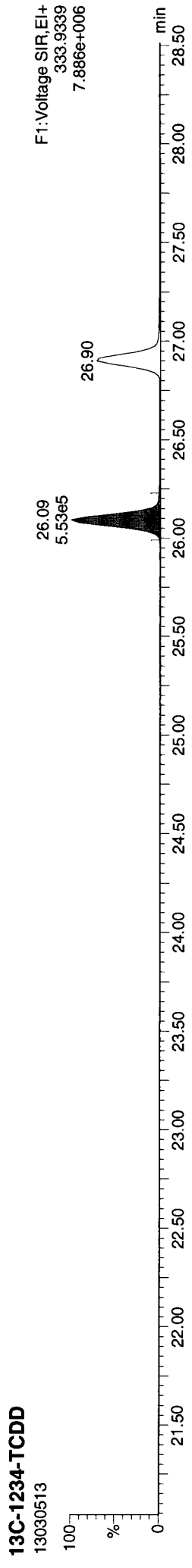
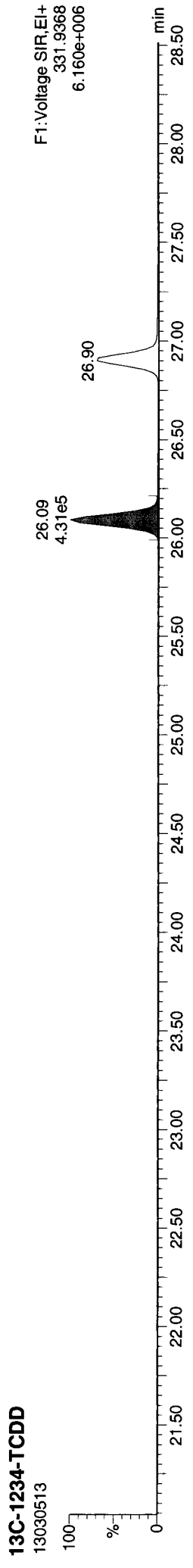
**ETHERS6**

58	FUNCTION5 DCDPE	513.6775	47.61	0.000	0.000	2.5
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**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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**Method:** P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

**ID:** WF26G, **Name:** 13030513, **Date:** 05-Mar-2013, **Time:** 22:20:48, **Conditions:** AUTOSPEC01, **User:** pk

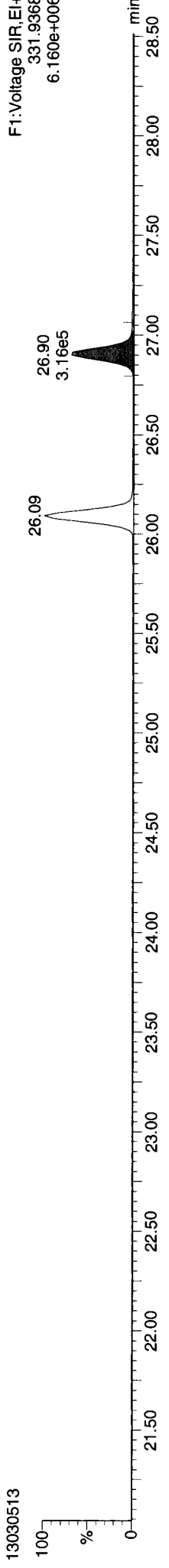


13030513

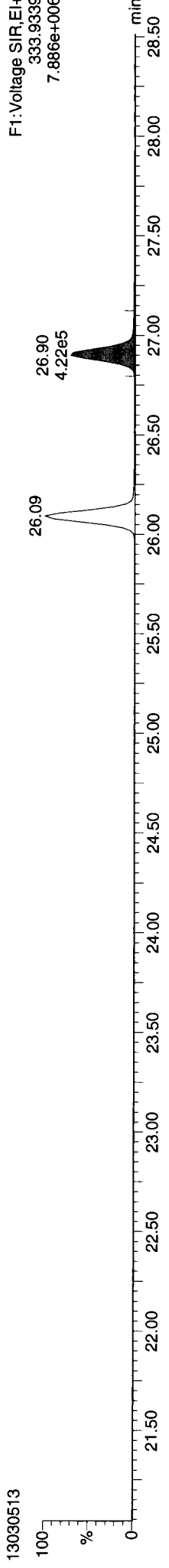
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Dataset: P:\DIOXIN8290.PRO\130305DATA2.qid  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

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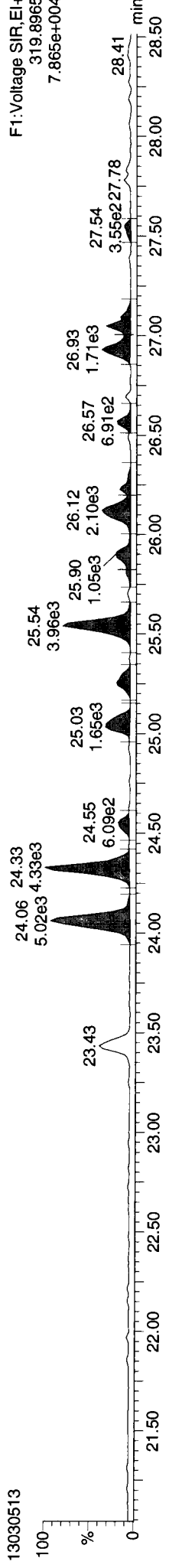
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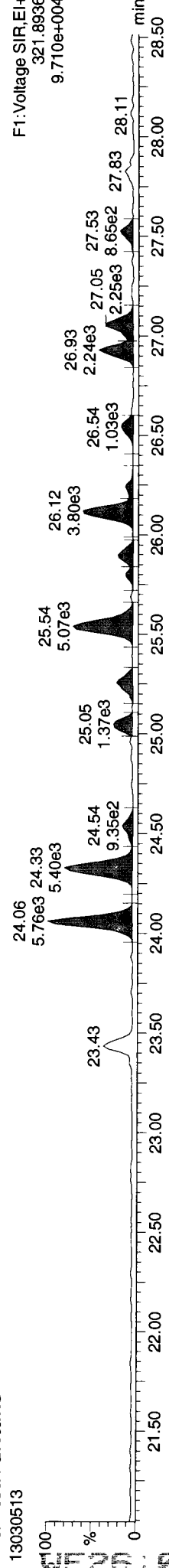
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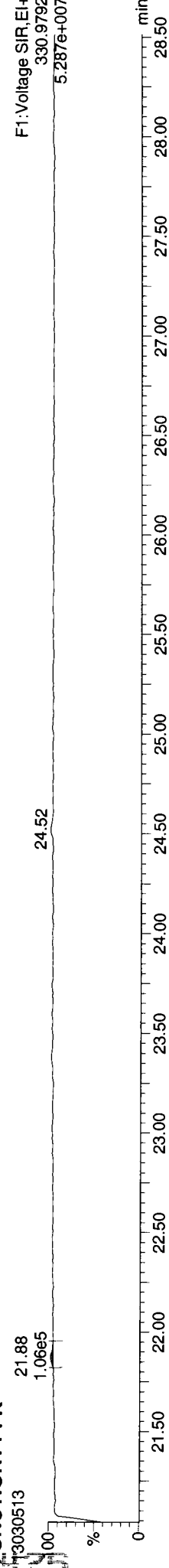
Total-tetradoxins



Total-tetradoxins



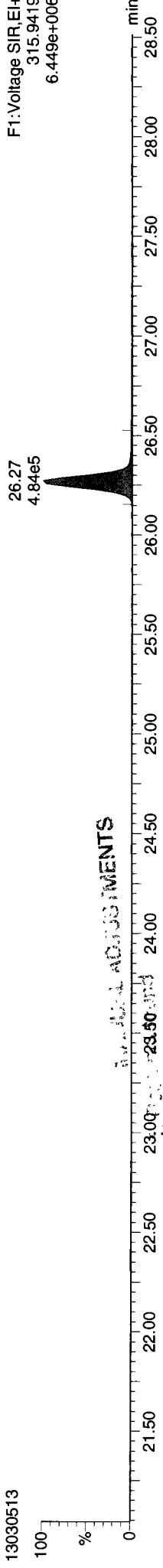
FUNCTION1 PFK



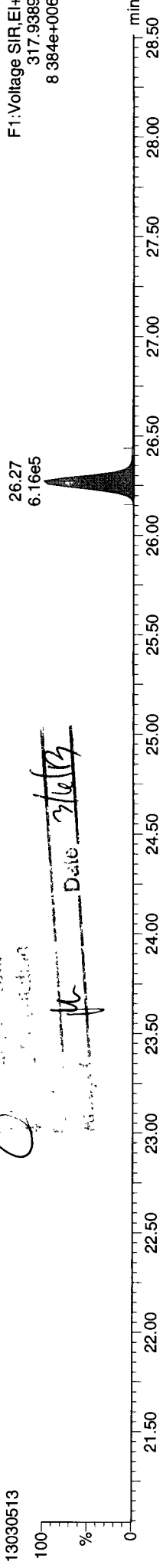
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qid  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**

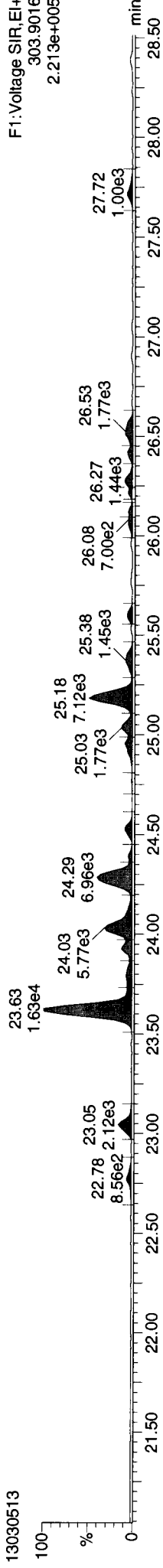
**13C-2378-TCDF**



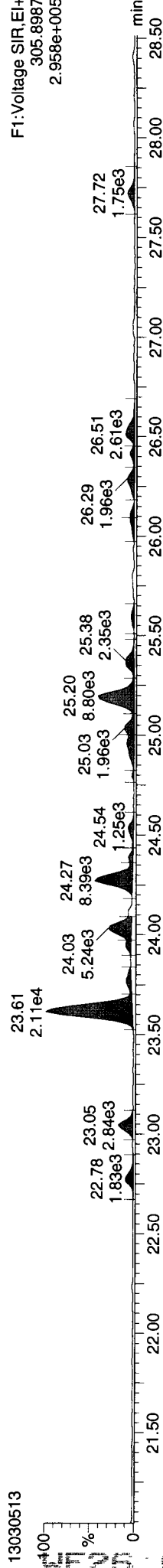
**13C-2378-TCDF**



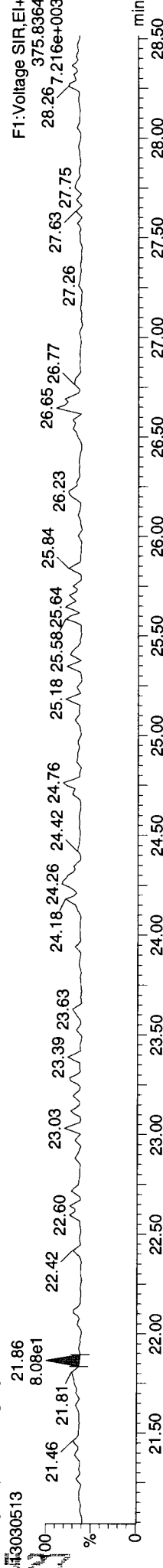
**Total-tetrafurans**



**Total-tetrafurans**



**FUNCTION1 HXCDPE**

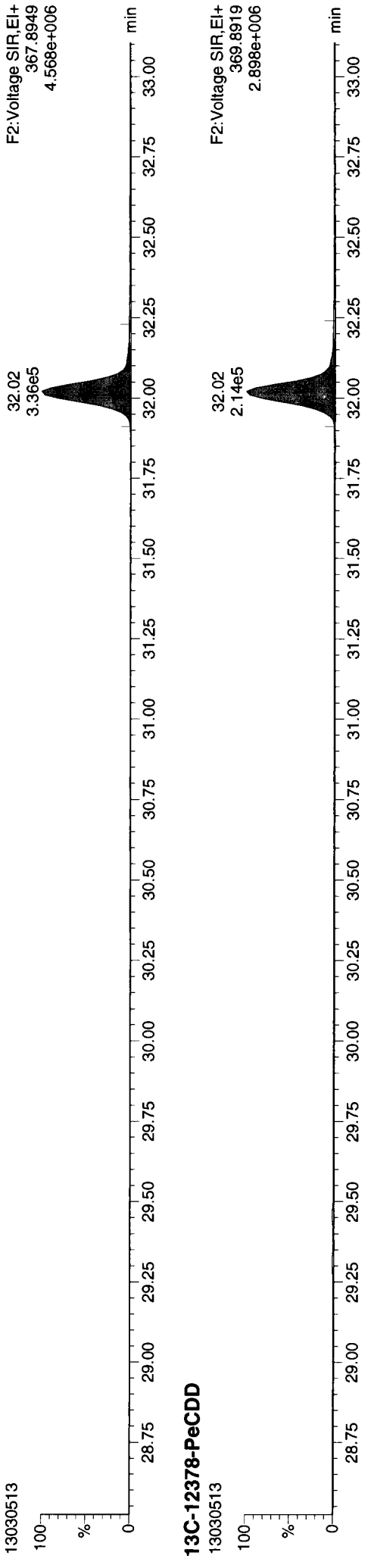


*Handwritten notes:*  
 23.50 and 24.00  
 23.50 and 24.00  
 23.50 and 24.00  
 Date 3/6/13

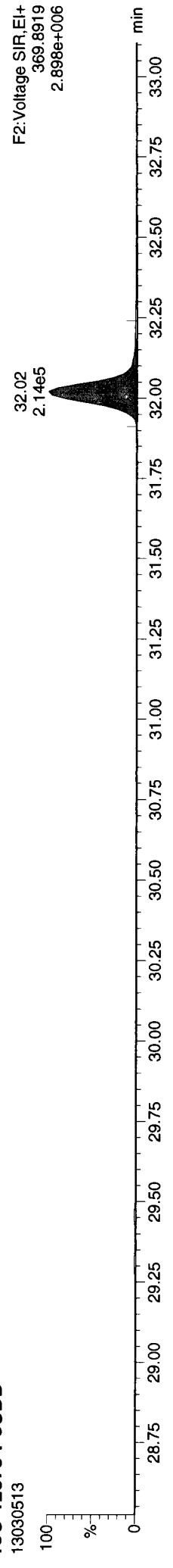
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**

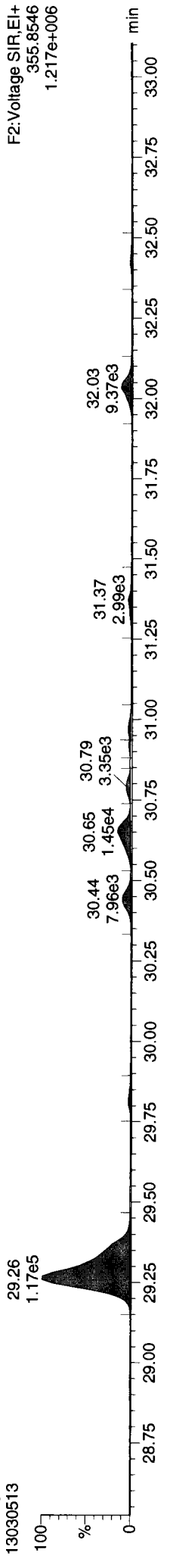
**13C-12378-PeCDD**



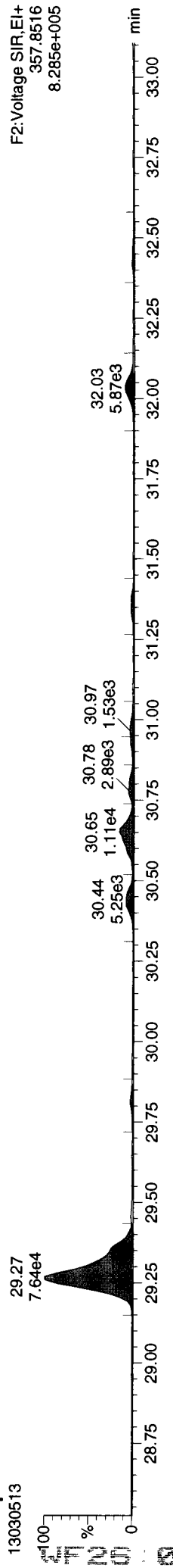
**13C-12378-PeCDD**



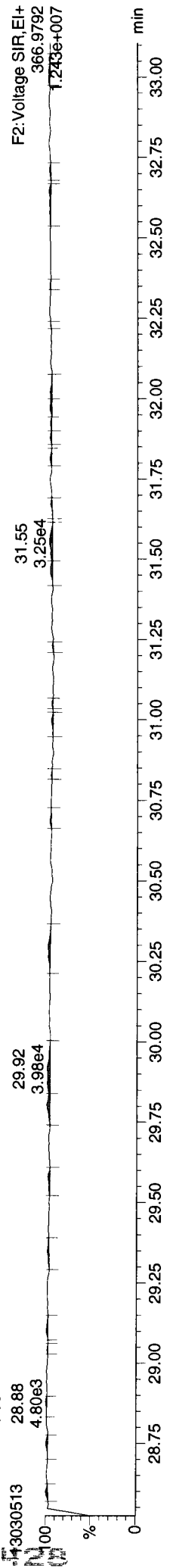
**Total-pentadioxins**



**Total-pentadioxins**



**FUNCTION2 PFK**

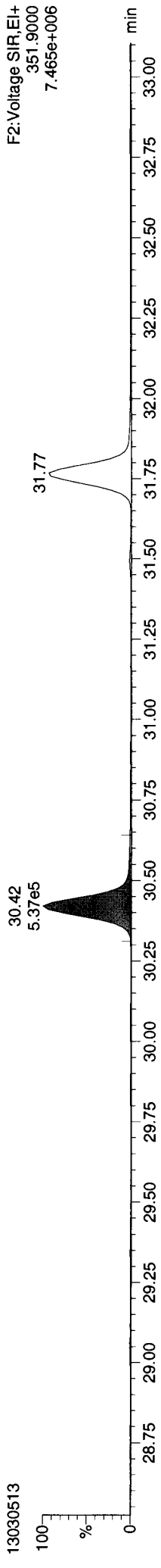




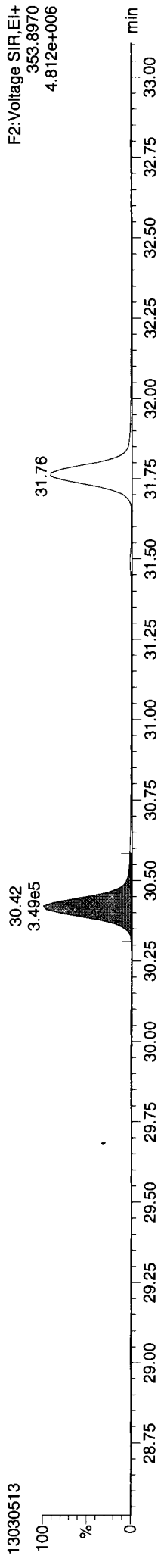
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qid  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**

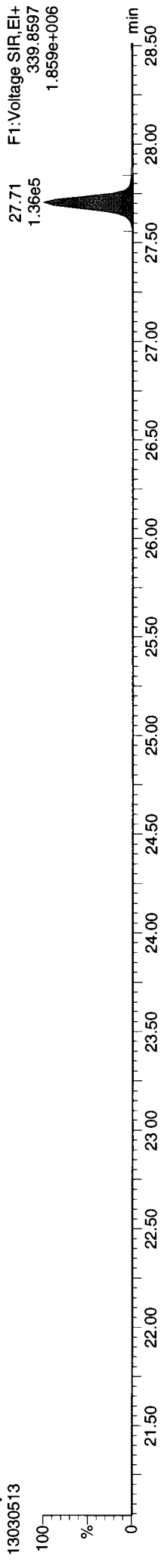
**13C-12378-PeCDF**



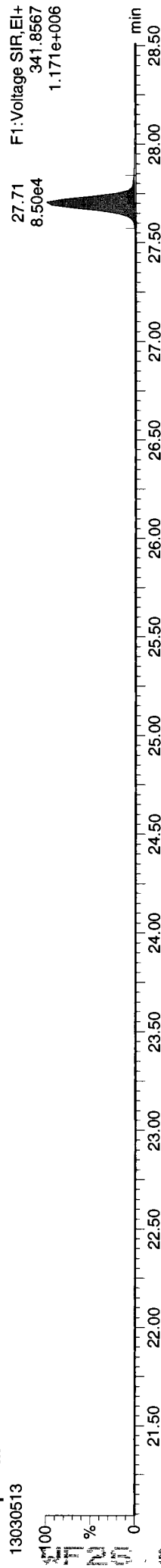
**13C-12378-PeCDF**



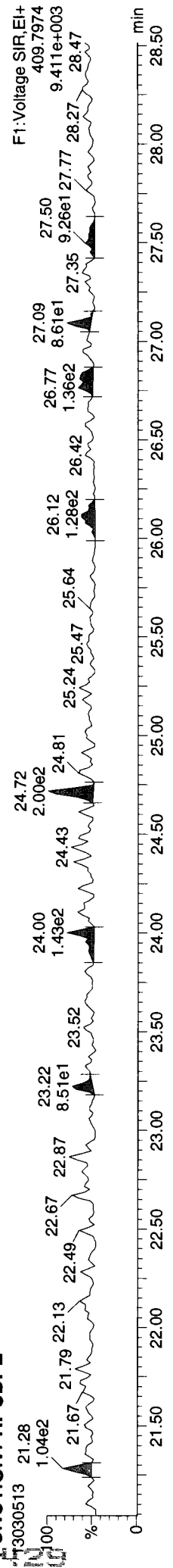
**Total-penta1**



**Total-penta1**



**FUNCTION1 HPCDPE**



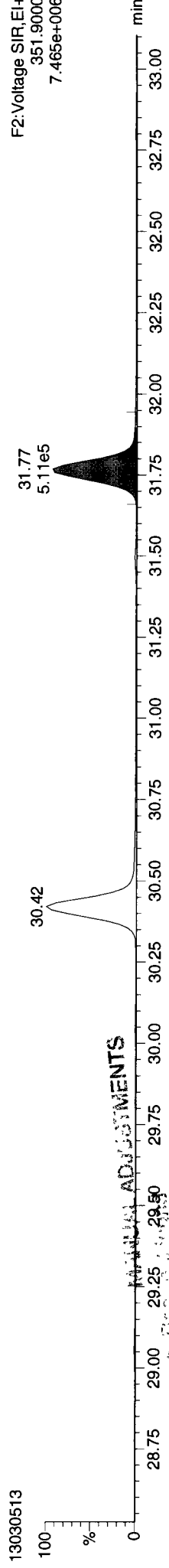
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld

Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time

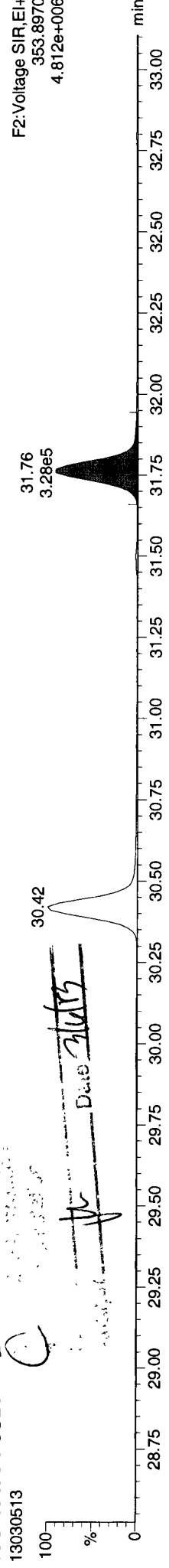
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

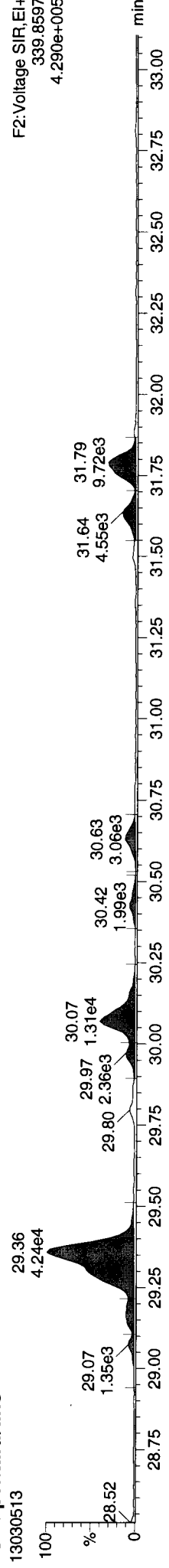
13C-23478-PeCDF



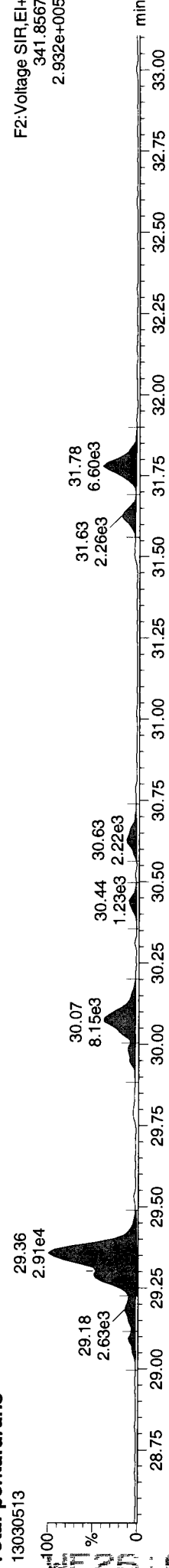
13C-23478-PeCDF



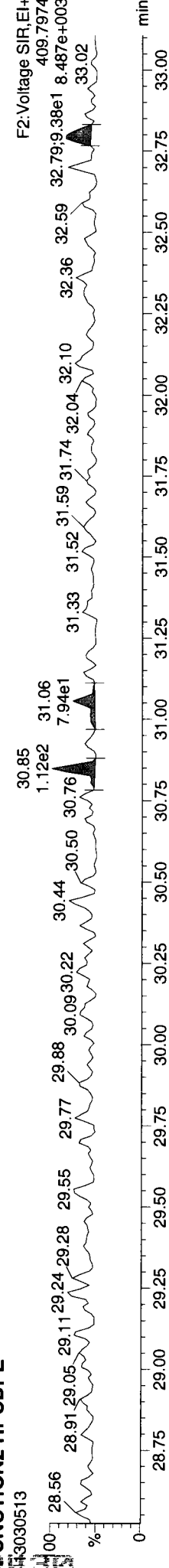
Total-pentafurans



Total-pentafurans



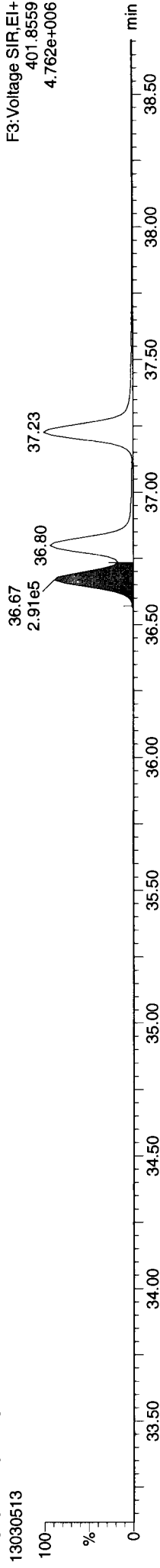
FUNCTION2 HPCDPE



ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

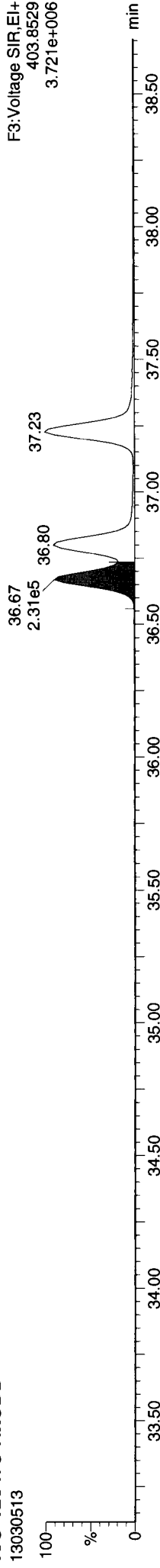
13C-123478-HxCDD

13030513



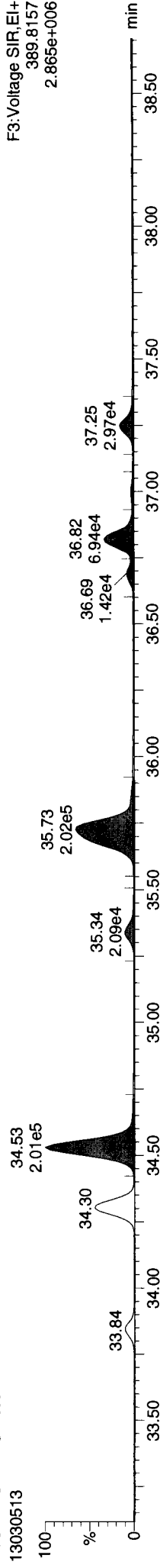
13C-123478-HxCDD

13030513



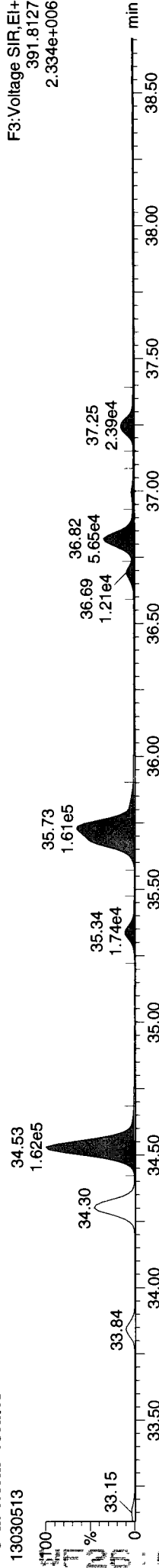
Total-hexadioxins

13030513



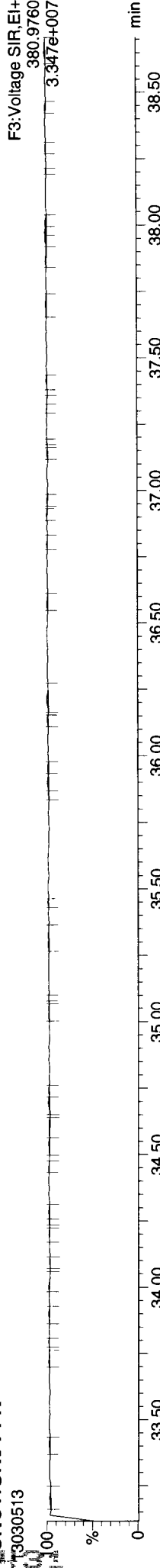
Total-hexadioxins

13030513



FUNCTION3 PFK

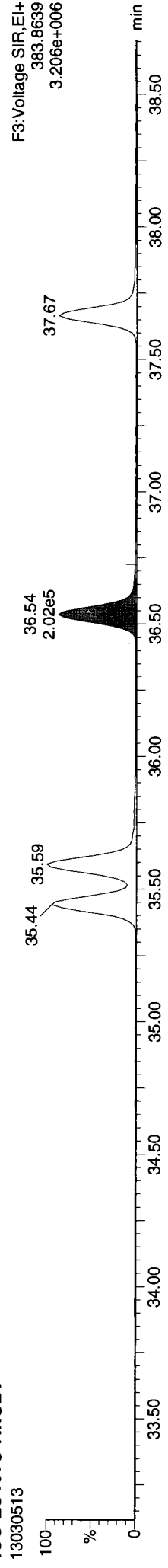
13030513



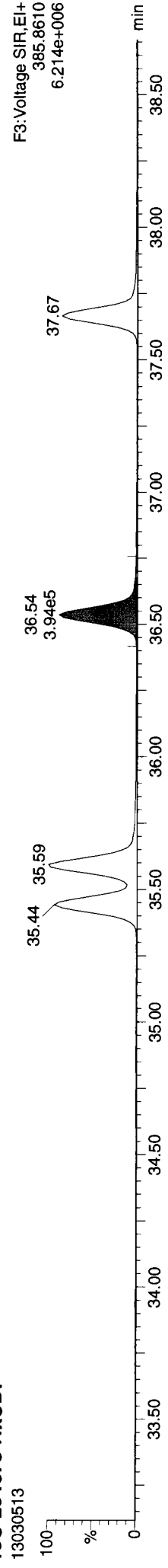
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PROV130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

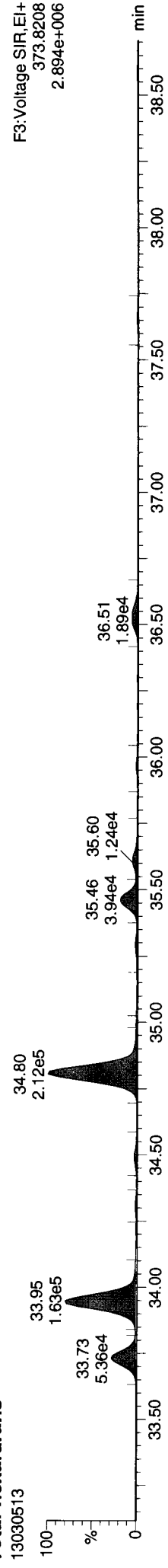
13C-234678-HxCDF  
13030513



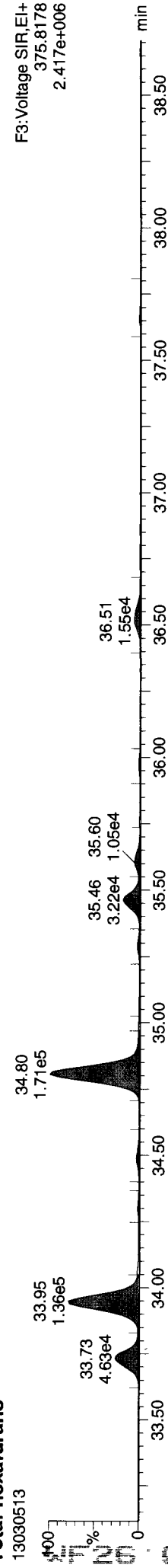
13C-234678-HxCDF  
13030513



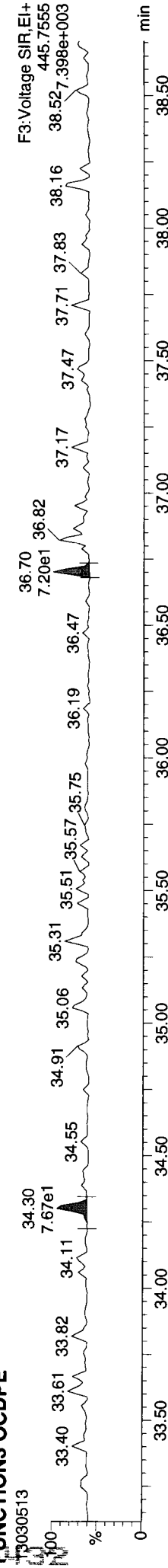
Total-hexafurans  
13030513



Total-hexafurans  
13030513



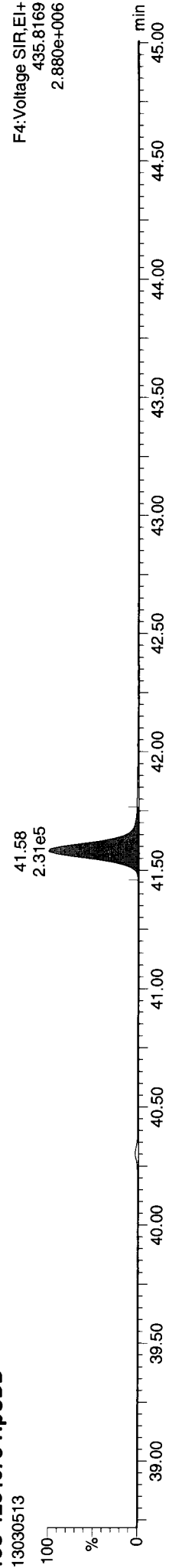
FUNCTION3 OCDPE  
13030513



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

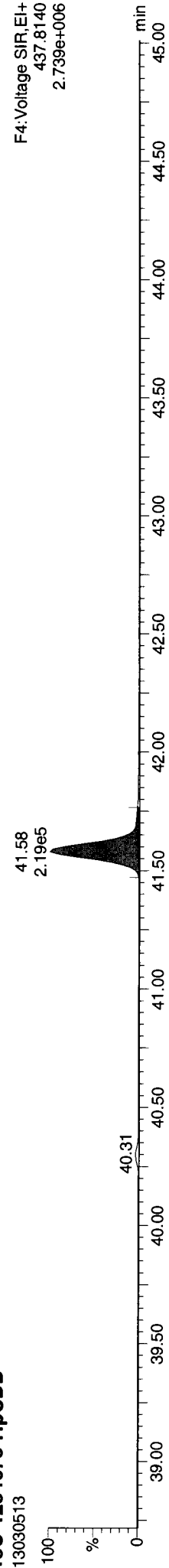
**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**

**13C-1234678-HpCDD**  
13030513



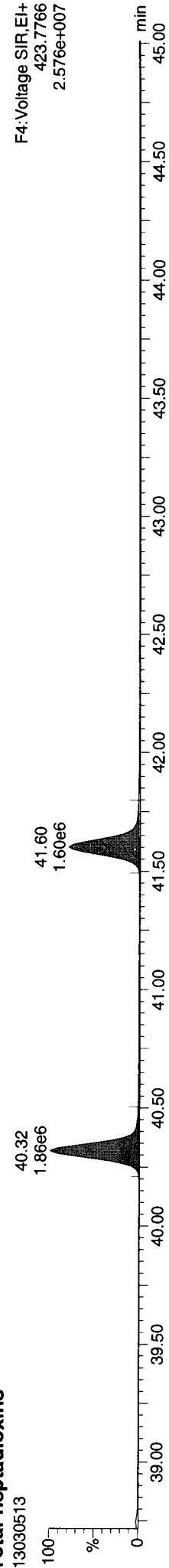
F4: Voltage SIR, EI+  
435.8169  
2.880e+006

**13C-1234678-HpCDD**  
13030513



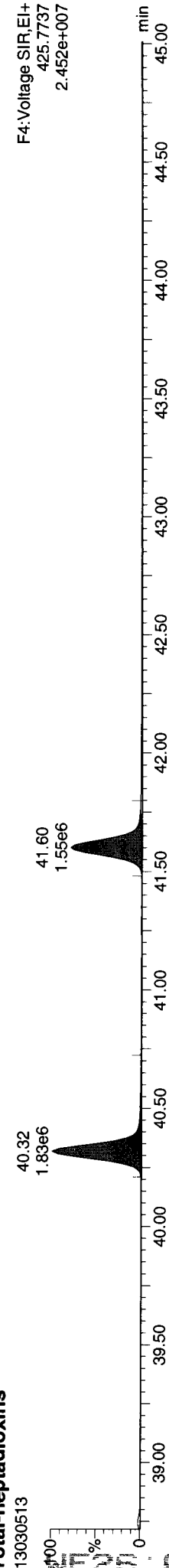
F4: Voltage SIR, EI+  
437.8140  
2.739e+006

**Total-heptadioxins**  
13030513



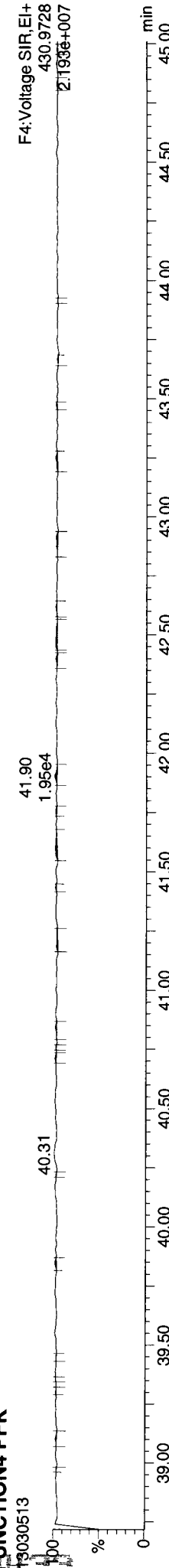
F4: Voltage SIR, EI+  
423.7766  
2.576e+007

**Total-heptadioxins**  
13030513



F4: Voltage SIR, EI+  
425.7737  
2.452e+007

**FUNCTION4 PFK**  
13030513



F4: Voltage SIR, EI+  
430.9728  
2.195e+007

Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



13C-1234678-HpCDF



Total-heptafurans



Total-heptafurans

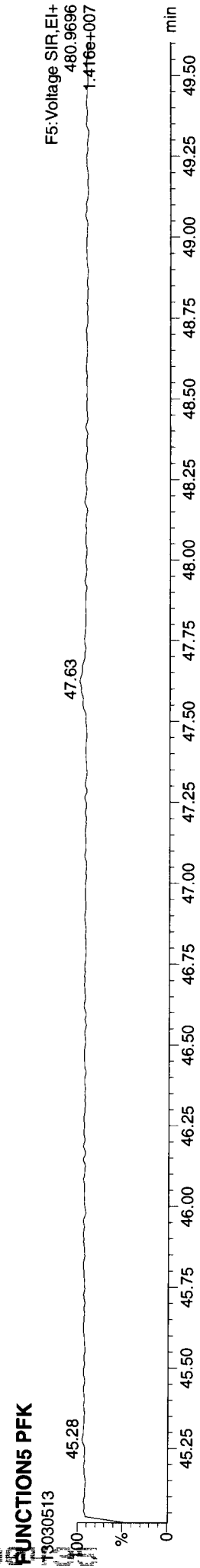
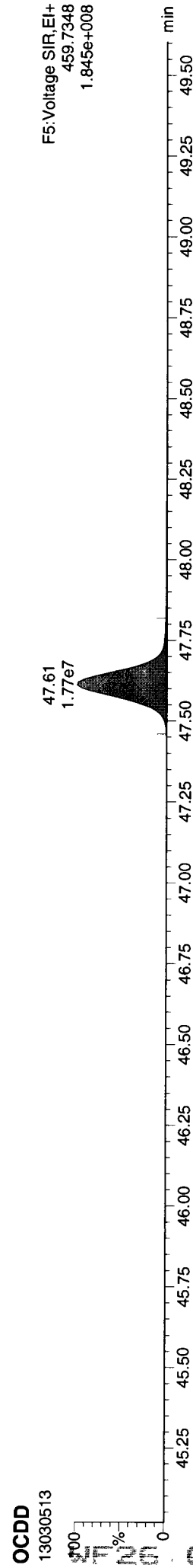
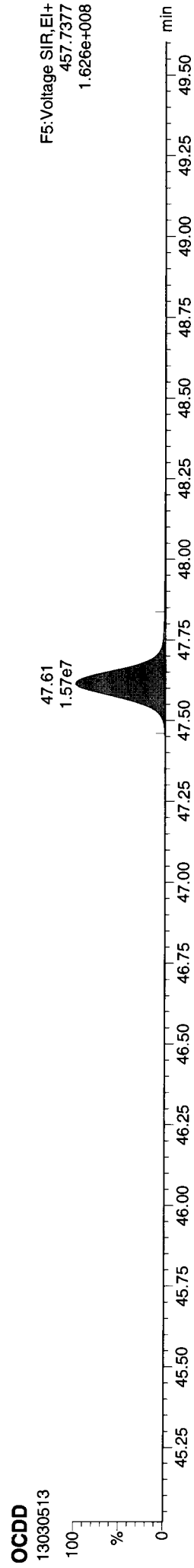
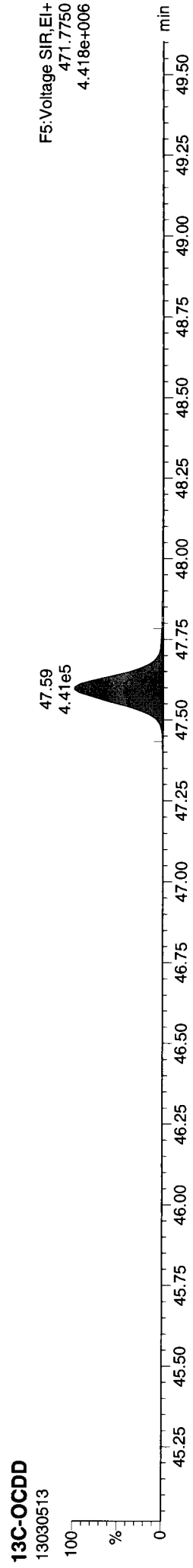
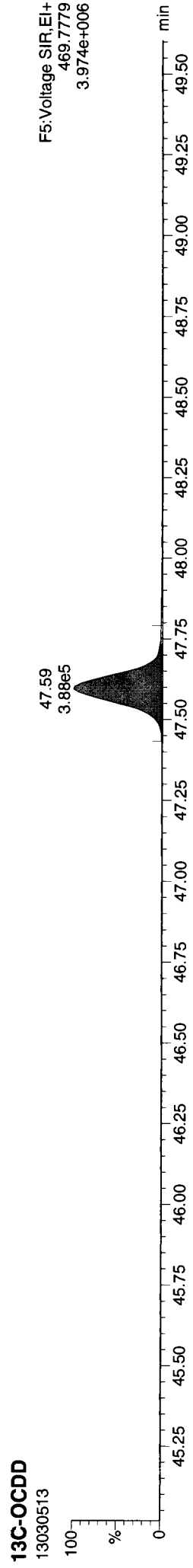


FUNCTION4 NCDPE



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PROV130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

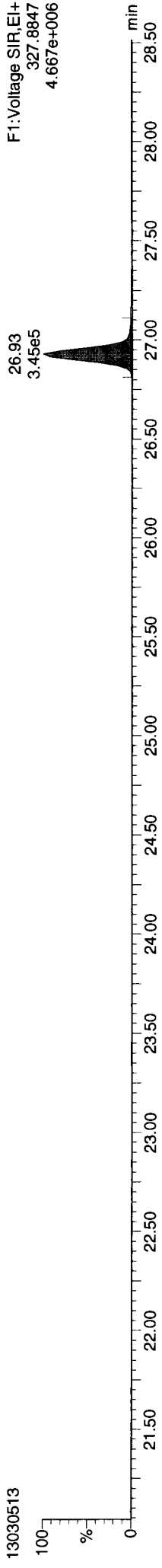
**ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk**



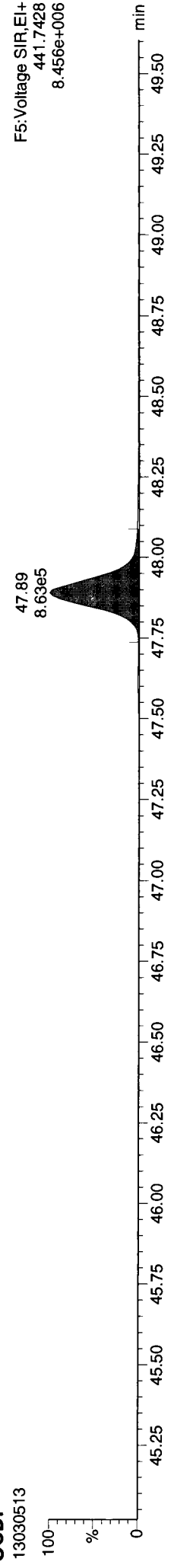
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:00 Pacific Standard Time

ID: WF26G, Name: 13030513, Date: 05-Mar-2013, Time: 22:20:48, Conditions: AUTOSPEC01, User: pk

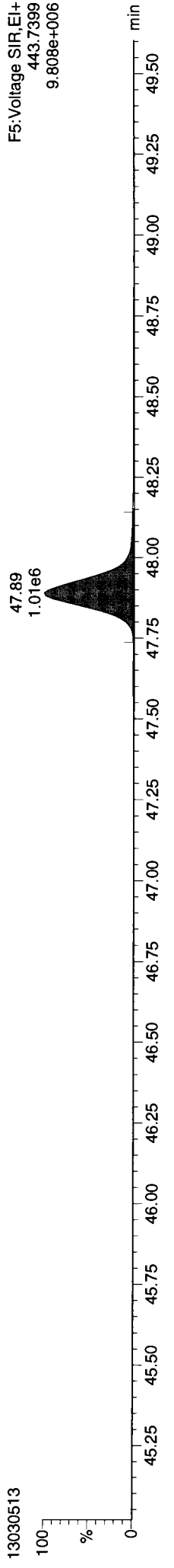
37CL-2378-TCDD



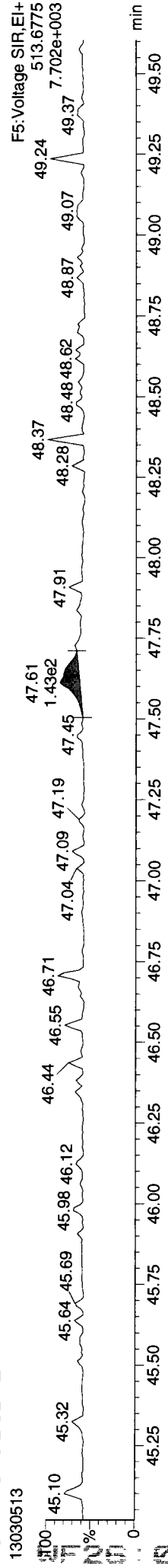
OCDF



OCDF



FUNCTION5 DCDPE



13030513



**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26H  
 Lab.File ID: 13030514  
 Date Analysed: 05-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.94	0.0887	0.0790	
12378-PeCDD	356/358	32.03	0.208	0.160	
123478-HxCDD	390/392	0.00			0.17
123678-HxCDD	390/392	36.83	0.640	0.552	
123789-HxCDD	390/392	37.25	0.550	0.483	
1234678-HpCDD	424/426	41.60	17.2		
OCDD	458/460	47.60	147		
2378-TCDF	304/306	26.29	0.194	0.159	
12378-PeCDF	340/342	30.45	0.168		
23478-PeCDF	340/342	31.78	0.183		
123478-HxCDF	374/376	35.45	0.258	0.220	
234678-HxCDF	374/376	36.55	0.231		
123678-HxCDF	374/376	35.62	0.156	0.106	
123789-HxCDF	374/376	0.00			0.090
1234678-HpCDF	408/410	39.76	3.05		
1234789-HpCDF	408/410	42.49	0.201		
OCDF	442/444	47.87	7.48		

Note. EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

*Handwritten mark*

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurvedB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.288	1.001	5.49e2	9.85e2	0.921	0.557	0.770	5.5	1202	2860	6.57e3	1.56e4	YES	0.159	0.194
12378-PeCDF	30.454	1.001	6.32e2	4.18e2	0.912	1.513	1.550	3.7	2132	2242	7.90e3	8.29e3	NO	0.168	0.168
23478-PeCDF	31.780	1.001	6.72e2	4.56e2	0.943	1.473	1.550	5.9	2132	2242	1.26e4	7.71e3	NO	0.183	0.183
123478-HxCDF	35.452	1.000	6.60e2	7.37e2	1.101	0.896	1.240	7.6	1387	1071	1.05e4	1.36e4	YES	0.220	0.258
234678-HxCDF	36.548	1.000	6.15e2	5.72e2	1.073	1.075	1.240	9.6	1387	1071	1.34e4	9.49e3	NO	0.231	0.231
123678-HxCDF	35.617	1.001	6.36e2	2.76e2	1.056	2.302	1.240	4.6	1387	1071	6.33e3	5.56e3	YES	0.106	0.156
123789-HxCDF					1.017		1.240		1387	1071					
1234678-HpCDF	39.760	1.000	7.29e3	7.43e3	1.238	0.981	1.050	81.2	1306	815	1.06e5	9.99e4	NO	3.054	3.054
1234789-HpCDF	42.489	1.000	4.03e2	3.35e2	1.224	1.204	1.050	5.6	1306	815	7.36e3	7.32e3	NO	0.201	0.201
OCDF	47.873	1.006	1.06e4	1.18e4	1.162	0.900	0.890	36.8	2774	983	1.02e5	1.16e5	NO	7.483	7.483
2378-TCDD	26.945	1.002	2.22e2	3.49e2	1.106	0.635	0.770	3.5	1268	1502	4.47e3	6.78e3	YES	0.079	0.089
12378-PeCDD	32.032	1.000	4.11e2	4.64e2	1.001	0.884	1.550	5.3	1416	1534	7.53e3	8.09e3	YES	0.160	0.208
123478-HxCDD					0.978		1.240		1559	2286					
123678-HxCDD	36.833	1.001	1.70e3	1.07e3	0.929	1.596	1.240	14.2	1559	2286	2.21e4	1.65e4	YES	0.552	0.640
123789-HxCDD	37.250	1.012	1.32e3	8.55e2	0.904	1.547	1.240	15.9	1559	2286	2.47e4	1.17e4	YES	0.483	0.550
1234678-HpCDD	41.602	1.001	3.01e4	2.98e4	1.029	1.010	1.050	216.9	1780	2079	3.86e5	3.67e5	NO	17.228	17.228
OCDD	47.604	1.000	1.79e5	2.04e5	1.011	0.878	0.890	556.1	3052	1384	1.70e6	1.94e6	NO	146.541	146.541
13C-2378-TCDF	26.273	1.007	3.81e5	4.78e5	1.522	0.797	0.770	1626.0	3058	3370	4.97e6	6.34e6	NO	72.378	72.378
13C-12378-PeCDF	30.421	1.166	4.19e5	2.67e5	1.185	1.569	1.550	988.9	5827	3866	5.76e6	3.66e6	NO	74.293	74.293
13C-23478-PeCDF	31.758	1.217	3.97e5	2.59e5	1.136	1.552	1.550	922.6	5827	3866	5.38e6	3.49e6	NO	73.774	73.774
13C-123478-HxCDF	35.441	0.952	1.67e5	3.25e5	1.284	0.513	0.510	765.2	3004	3878	2.30e6	4.50e6	NO	78.804	78.804
13C-123678-HxCDF	35.595	0.956	1.86e5	3.69e5	1.383	0.504	0.510	826.7	3004	3878	2.48e6	4.96e6	NO	82.535	82.535
13C-234678-HxCDF	36.537	0.981	1.60e5	3.18e5	1.283	0.503	0.510	751.3	3004	3878	2.26e6	4.36e6	NO	76.608	76.608
13C-123789-HxCDF	37.666	1.012	1.66e5	3.17e5	1.099	0.525	0.510	766.0	3004	3878	2.30e6	4.52e6	NO	90.258	90.258
13C-1234678-HpCDF	39.749	1.068	1.20e5	2.69e5	1.070	0.448	0.440	748.6	2190	2876	1.64e6	3.68e6	NO	74.746	74.746
13C-1234789-HpCDF	42.478	1.141	9.46e4	2.06e5	0.774	0.460	0.440	494.2	2190	2876	1.08e6	2.43e6	NO	79.716	79.716
13C-1234-TCDD	26.093	0.000	3.36e5	4.44e5	1.000	0.757	0.770	1453.8	3310	1773	4.81e6	6.16e6	NO	100.000	100.000
13C-2378-TCDD	26.900	1.031	2.55e5	3.27e5	0.943	0.780	0.770	1004.5	3310	1773	3.33e6	4.35e6	NO	79.201	79.201
13C-12378-PeCDD	32.021	1.227	2.60e5	1.61e5	0.715	1.610	1.550	1667.9	2141	1682	3.57e6	2.27e6	NO	75.493	75.493
13C-123478-HxCDD	36.680	0.985	2.29e5	1.82e5	1.032	1.258	1.240	1128.6	2903	1791	3.28e6	2.59e6	NO	81.873	81.873
13C-123678-HxCDD	36.800	0.989	2.58e5	2.07e5	1.076	1.248	1.240	1225.5	2903	1791	3.56e6	2.83e6	NO	88.751	88.751
13C-1234678-HpCDD	41.579	1.117	1.75e5	1.62e5	0.838	1.079	1.050	998.9	2144	2097	2.14e6	2.04e6	NO	82.874	82.874
13C-OCDD	47.586	1.278	2.46e5	2.70e5	0.675	0.913	0.890	1393.7	1662	2615	2.32e6	2.54e6	NO	156.938	156.938

X

b

Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
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	37.228	0.000	2.74e5	2.13e5	1.000	1.285	1.240	1278.9	2903	1791	3.71e6	2.95e6	NO	100.000
13C-123789-HxCDD														
Total-tetrafurans			1.71e4		0.921				1202		2.32e5			4.855
Total-penta1			7.19e3						740		9.85e4			1.958
Total-pentafurans			5.26e3		0.927				2132		1.03e5			1.393
Total-hexafurans			1.38e4		1.062				1387		2.19e5			4.654
Total-heptafurans			2.06e4		1.231				1306		2.93e5			9.600
Total-Furans			7.49e4		1.065				1202		1.05e6			30.016
Total-tetraoxins			5.67e3		1.106				1268		8.16e4			1.965
Total-pentadioxins			7.08e3		1.001				1416		1.17e5			2.760
Total-hexadioxins			1.59e4		0.937				1559		2.17e5			6.646
Total-heptadioxins			8.67e4		1.029				1780		1.13e6			49.018
Total-Dioxins			2.94e5		0.994				1268		3.24e6			206.931
Total-TEQ			3.69e5						1268		4.29e6			236.947
37CL-2378-TCDD	26.930	1.032	2.68e5		1.051			1615.1	2227		3.60e6			32.737
FUNCTION1 PFK			3.24e7						321942		1.81e8			0.000
FUNCTION2 PFK			7.41e4						137308		2.59e6			0.000
FUNCTION3 PFK			3.29e5						248238		1.02e7			0.000
FUNCTION4 PFK			1.85e5						221280		6.53e6			0.000
FUNCTION5 PFK			5.20e4						165222		2.44e6			0.000
FUNCTION1 HXCDPE			7.79e2						858		1.63e4			0.000
FUNCTION1 HPCDPE			9.65e2						930		2.02e4			0.000
FUNCTION2 HPCDPE			2.65e2						1184		5.84e3			0.000
FUNCTION3 OCDPE			9.88e1						688		3.73e3			0.000
FUNCTION4 NCDPE			2.01e4						745		3.07e5			0.000
FUNCTION5 DCDPE			0.00e0						692		0.00e0			0.000

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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

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TF

Sample	Compound	Area	Height	Area Ratio	Height Ratio	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error	
35	Total-tetrafurans	303.9016	24.96	2552.290	0.921	0.323	0.74	0.77	NO	8.2		
35	Total-tetrafurans	303.9016	24.52	1483.018	0.921	0.187	1.05	0.77	YES	9.0		
35	Total-tetrafurans	303.9016	24.29	1919.149	0.921	0.243	1.08	0.77	YES	10.7		
35	Total-tetrafurans	303.9016	24.14	1637.456	0.921	0.207	1.40	0.77	YES	10.8		
35	Total-tetrafurans	303.9016	24.03	1576.986	0.921	0.199	1.06	0.77	YES	9.4		
35	Total-tetrafurans	303.9016	23.94	1427.335	0.921	0.180	0.45	0.77	YES	4.9		
35	Total-tetrafurans	303.9016	23.81	1905.552	0.921	0.241	1.62	0.77	YES	11.7		
35	Total-tetrafurans	303.9016	23.63	8238.145	0.921	1.041	0.68	0.77	NO	34.4		
35	Total-tetrafurans	303.9016	23.05	1094.313	0.921	0.138	1.25	0.77	YES	7.4		
35	Total-tetrafurans	303.9016	22.78	1351.478	0.921	0.171	1.07	0.77	YES	9.5		
35	Total-tetrafurans	303.9016	26.51	2704.291	0.921	0.342	0.74	0.77	NO	13.9		
1	2378-TCDF	303.9016	26.29	1534.215	0.921	0.194	0.159	0.56	0.77	YES	5.5	
35	Total-tetrafurans	303.9016	26.08	1000.911	0.921	0.127	0.78	0.77	NO	6.0		
35	Total-tetrafurans	303.9016	25.79	1035.585	0.921	0.131	0.75	0.77	NO	5.5		
35	Total-tetrafurans	303.9016	25.60	1335.389	0.921	0.169	0.65	0.77	YES	6.2		
35	Total-tetrafurans	303.9016	25.36	2167.531	0.921	0.274	0.54	0.77	YES	10.0		
35	Total-tetrafurans	303.9016	25.20	3170.967	0.921	0.401	0.91	0.77	YES	15.6		
35	Total-tetrafurans	303.9016	25.02	1206.184	0.921	0.152	0.86	0.77	NO	6.6		
35	Total-tetrafurans	303.9016	23.84	1065.051	0.921	0.135	0.42	0.77	YES	8.3		

PP

Sample	Compound	Area	Height	Area Ratio	Height Ratio	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error
36	Total-penta1	339.8597	27.71	12024.914		1.958	1.49	1.55	NO	133.0	

PF

Sample	Compound	Area	Height	Area Ratio	Height Ratio	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error	Area Ratio Error	Height Ratio Error	
37	Total-pentafurans	339.8597	30.06	1104.987	0.927	0.178	2.20	1.55	YES	4.6		
37	Total-pentafurans	339.8597	29.38	2687.014	0.927	0.432	1.51	1.55	NO	14.7		
37	Total-pentafurans	339.8597	29.31	1056.681	0.927	0.170	1.33	1.55	NO	9.5		
37	Total-pentafurans	339.8597	29.29	1625.620	0.927	0.262	1.49	1.55	NO	9.7		
3	23478-PeCDF	339.8597	31.78	1128.068	0.943	0.183	0.183	1.47	1.55	NO	5.9	
2	12378-PeCDF	339.8597	30.45	1049.739	0.912	0.168	0.168	1.51	1.55	NO	3.7	

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HF

38	Total-hexafurans	373.8208	33.72	2754.447	1.062	0.517		1.19	1.24	NO	16.4
5	234678-HxCDF	373.8208	36.55	1186.952	1.073	0.231	0.231	1.07	1.24	NO	9.6
38	Total-hexafurans	373.8208	35.76	243.812	1.062	0.046		0.97	1.24	YES	3.0
6	123678-HxCDF	373.8208	35.62	912.358	1.056	0.156	0.106	2.30	1.24	YES	4.6
4	123478-HxCDF	373.8208	35.45	1396.591	1.101	0.258	0.220	0.90	1.24	YES	7.6
38	Total-hexafurans	373.8208	35.32	410.159	1.062	0.077		1.24	1.24	NO	3.9
38	Total-hexafurans	373.8208	35.27	334.035	1.062	0.063		1.03	1.24	YES	3.9
38	Total-hexafurans	373.8208	34.81	8673.439	1.062	1.626		1.20	1.24	NO	54.2
38	Total-hexafurans	373.8208	34.50	322.603	1.062	0.060		0.98	1.24	YES	2.8
38	Total-hexafurans	373.8208	33.95	8646.403	1.062	1.621		1.36	1.24	NO	51.9

HPF

9	1234789-HpCDF	407.7818	42.49	738.547	1.224	0.201	0.201	1.20	1.05	NO	5.6
39	Total-heptafurans	407.7818	40.57	26909.248	1.231	6.345		0.93	1.05	NO	137.7
8	1234678-HpCDF	407.7818	39.76	14710.584	1.238	3.054	3.054	0.98	1.05	NO	81.2

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Furans,TF,PP,PF,HF,HPF,OF

35 Total-tetrafurans	303.9016	24.96	2552.290	0.921	0.323		0.74	0.77	NO	8.2
35 Total-tetrafurans	303.9016	24.52	1483.018	0.921	0.187		1.05	0.77	YES	9.0
35 Total-tetrafurans	303.9016	24.29	1919.149	0.921	0.243		1.08	0.77	YES	10.7
35 Total-tetrafurans	303.9016	24.14	1637.456	0.921	0.207		1.40	0.77	YES	10.8
35 Total-tetrafurans	303.9016	24.03	1576.986	0.921	0.199		1.06	0.77	YES	9.4
35 Total-tetrafurans	303.9016	23.94	1427.335	0.921	0.180		0.45	0.77	YES	4.9
35 Total-tetrafurans	303.9016	23.81	1905.552	0.921	0.241		1.62	0.77	YES	11.7
35 Total-tetrafurans	303.9016	23.63	8238.145	0.921	1.041		0.68	0.77	NO	34.4
35 Total-tetrafurans	303.9016	23.05	1094.313	0.921	0.138		1.25	0.77	YES	7.4
35 Total-tetrafurans	303.9016	22.78	1351.478	0.921	0.171		1.07	0.77	YES	9.5
35 Total-tetrafurans	303.9016	26.51	2704.291	0.921	0.342		0.74	0.77	NO	13.9
1 2378-TCDF	303.9016	26.29	1534.215	0.921	0.194	0.159	0.56	0.77	YES	5.5
35 Total-tetrafurans	303.9016	26.08	1000.911	0.921	0.127		0.78	0.77	NO	6.0
35 Total-tetrafurans	303.9016	25.79	1035.585	0.921	0.131		0.75	0.77	NO	5.5
35 Total-tetrafurans	303.9016	25.60	1335.389	0.921	0.169		0.65	0.77	YES	6.2
35 Total-tetrafurans	303.9016	25.36	2167.531	0.921	0.274		0.54	0.77	YES	10.0
35 Total-tetrafurans	303.9016	25.20	3170.967	0.921	0.401		0.91	0.77	YES	15.6
35 Total-tetrafurans	303.9016	25.02	1206.184	0.921	0.152		0.86	0.77	NO	6.6
40 Total-Furans	303.9016	28.39	673.747	1.065	0.074		0.65	0.77	YES	3.2
37 Total-pentafurans	339.8597	30.06	1104.987	0.927	0.178		2.20	1.55	YES	4.6
37 Total-pentafurans	339.8597	29.38	2687.014	0.927	0.432		1.51	1.55	NO	14.7
37 Total-pentafurans	339.8597	29.31	1056.681	0.927	0.170		1.33	1.55	NO	9.5
37 Total-pentafurans	339.8597	29.29	1625.620	0.927	0.262		1.49	1.55	NO	9.7
3 23478-PeCDF	339.8597	31.78	1128.068	0.943	0.183	0.183	1.47	1.55	NO	5.9
2 12378-PeCDF	339.8597	30.45	1049.739	0.912	0.168	0.168	1.51	1.55	NO	3.7
38 Total-hexafurans	373.8208	33.72	2754.447	1.062	0.517		1.19	1.24	NO	16.4
5 234678-HxCDF	373.8208	36.55	1186.952	1.073	0.231	0.231	1.07	1.24	NO	9.6
38 Total-hexafurans	373.8208	35.76	243.812	1.062	0.046		0.97	1.24	YES	3.0
6 123678-HxCDF	373.8208	35.62	912.358	1.056	0.156	0.106	2.30	1.24	YES	4.6
4 123478-HxCDF	373.8208	35.45	1396.591	1.101	0.258	0.220	0.90	1.24	YES	7.6
38 Total-hexafurans	373.8208	35.32	410.159	1.062	0.077		1.24	1.24	NO	3.9
38 Total-hexafurans	373.8208	35.27	334.035	1.062	0.063		1.03	1.24	YES	3.9
38 Total-hexafurans	373.8208	34.81	8673.439	1.062	1.626		1.20	1.24	NO	54.2
38 Total-hexafurans	373.8208	34.50	322.603	1.062	0.060		0.98	1.24	YES	2.8
38 Total-hexafurans	373.8208	33.95	8646.403	1.062	1.621		1.36	1.24	NO	51.9
9 1234789-HpCDF	407.7818	42.49	738.547	1.224	0.201	0.201	1.20	1.05	NO	5.6
39 Total-heptafurans	407.7818	40.57	26909.248	1.231	6.345		0.93	1.05	NO	137.7
8 1234678-HpCDF	407.7818	39.76	14710.584	1.238	3.054	3.054	0.98	1.05	NO	81.2
10 OCDF	441.7428	47.87	22430.711	1.162	7.483	7.483	0.90	0.89	NO	36.8
36 Total-penta1	339.8597	27.71	12024.914		1.958		1.49	1.55	NO	133.0
35 Total-tetrafurans	303.9016	23.84	1065.051	0.921	0.135		0.42	0.77	YES	8.3

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TD

ID	Name	Conc	RT	Abund	RFU	IS	IS	IS	IS	IS	IS
41	Total-tetradoxins	319.8965	24.08	4222.390	1.106	0.656		0.67	0.77	NO	19.3
41	Total-tetradoxins	319.8965	27.06	669.838	1.106	0.104		1.02	0.77	YES	3.6
11	2378-TCDD	319.8965	26.94	571.218	1.106	0.089	0.079	0.64	0.77	YES	3.5
41	Total-tetradoxins	319.8965	26.51	1081.070	1.106	0.168		0.66	0.77	NO	3.4
41	Total-tetradoxins	319.8965	25.54	1584.490	1.106	0.246		0.91	0.77	YES	9.3
41	Total-tetradoxins	319.8965	25.27	679.362	1.106	0.105		1.55	0.77	YES	4.1
41	Total-tetradoxins	319.8965	25.03	1282.581	1.106	0.199		0.80	0.77	NO	6.8
41	Total-tetradoxins	319.8965	24.33	2565.027	1.106	0.398		0.94	0.77	YES	14.3

PD

ID	Name	Conc	RT	Abund	RFU	IS	IS	IS	IS	IS	IS
42	Total-pentadoxins	355.8546	30.96	1284.967	1.001	0.305		2.28	1.55	YES	9.2
42	Total-pentadoxins	355.8546	30.77	1435.093	1.001	0.340		1.63	1.55	NO	7.6
42	Total-pentadoxins	355.8546	30.66	1093.011	1.001	0.259		1.70	1.55	NO	7.1
42	Total-pentadoxins	355.8546	30.44	1574.833	1.001	0.374		1.25	1.55	YES	10.6
42	Total-pentadoxins	355.8546	29.83	538.494	1.001	0.128		1.68	1.55	NO	4.9
42	Total-pentadoxins	355.8546	29.35	2085.093	1.001	0.495		1.21	1.55	YES	17.8
42	Total-pentadoxins	355.8546	29.30	2119.821	1.001	0.503		2.16	1.55	YES	14.4
12	12378-PeCDD	355.8546	32.03	875.060	1.001	0.208	0.160	0.88	1.55	YES	5.3
42	Total-pentadoxins	355.8546	31.35	627.402	1.001	0.149		1.75	1.55	NO	6.1

HD

ID	Name	Conc	RT	Abund	RFU	IS	IS	IS	IS	IS	IS
43	Total-hexadoxins	389.8157	35.73	8018.883	0.937	1.953		2.08	1.24	YES	41.4
43	Total-hexadoxins	389.8157	35.33	4598.385	0.937	1.120		1.05	1.24	NO	21.8
43	Total-hexadoxins	389.8157	34.53	9785.729	0.937	2.384		1.10	1.24	NO	46.2
15	123789-HxCDD	389.8157	37.25	2177.207	0.904	0.550	0.483	1.55	1.24	YES	15.9
14	123678-HxCDD	389.8157	36.83	2764.983	0.929	0.640	0.552	1.60	1.24	YES	14.2

HPD

ID	Name	Conc	RT	Abund	RFU	IS	IS	IS	IS	IS	IS
16	1234678-HpCDD	423.7766	41.60	59877.893	1.029	17.228	17.228	1.01	1.05	NO	216.9
44	Total-heptadoxins	423.7766	40.32	110485.223	1.029	31.789		1.05	1.05	NO	415.6

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Dioxins,TD,PD,HD,HPD,OD

41	Total-tetradoxins	319.8965	24.08	4222.390	1.106	0.656		0.67	0.77	NO	19.3
41	Total-tetradoxins	319.8965	27.06	669.838	1.106	0.104		1.02	0.77	YES	3.6
11	2378-TCDD	319.8965	26.94	571.218	1.106	0.089	0.079	0.64	0.77	YES	3.5
41	Total-tetradoxins	319.8965	26.51	1081.070	1.106	0.168		0.66	0.77	NO	3.4
41	Total-tetradoxins	319.8965	25.54	1584.490	1.106	0.246		0.91	0.77	YES	9.3
41	Total-tetradoxins	319.8965	25.27	679.362	1.106	0.105		1.55	0.77	YES	4.1
41	Total-tetradoxins	319.8965	25.03	1282.581	1.106	0.199		0.80	0.77	NO	6.8
41	Total-tetradoxins	319.8965	24.33	2565.027	1.106	0.398		0.94	0.77	YES	14.3
42	Total-pentadoxins	355.8546	30.96	1284.967	1.001	0.305		2.28	1.55	YES	9.2
42	Total-pentadoxins	355.8546	30.77	1435.093	1.001	0.340		1.63	1.55	NO	7.6
42	Total-pentadoxins	355.8546	30.66	1093.011	1.001	0.259		1.70	1.55	NO	7.1
42	Total-pentadoxins	355.8546	30.44	1574.833	1.001	0.374		1.25	1.55	YES	10.6
42	Total-pentadoxins	355.8546	29.83	538.494	1.001	0.128		1.68	1.55	NO	4.9
42	Total-pentadoxins	355.8546	29.35	2085.093	1.001	0.495		1.21	1.55	YES	17.8
42	Total-pentadoxins	355.8546	29.30	2119.821	1.001	0.503		2.16	1.55	YES	14.4
12	12378-PeCDD	355.8546	32.03	875.060	1.001	0.208	0.160	0.88	1.55	YES	5.3
42	Total-pentadoxins	355.8546	31.35	627.402	1.001	0.149		1.75	1.55	NO	6.1
43	Total-hexadoxins	389.8157	35.73	8018.883	0.937	1.953		2.08	1.24	YES	41.4
43	Total-hexadoxins	389.8157	35.33	4598.385	0.937	1.120		1.05	1.24	NO	21.8
43	Total-hexadoxins	389.8157	34.53	9785.729	0.937	2.384		1.10	1.24	NO	46.2
15	123789-HxCDD	389.8157	37.25	2177.207	0.904	0.550	0.483	1.55	1.24	YES	15.9
14	123678-HxCDD	389.8157	36.83	2764.983	0.929	0.640	0.552	1.60	1.24	YES	14.2
16	1234678-HpCDD	423.7766	41.60	59877.893	1.029	17.228	17.228	1.01	1.05	NO	216.9
44	Total-heptadoxins	423.7766	40.32	110485.223	1.029	31.789		1.05	1.05	NO	415.6
17	OCDD	457.7377	47.60	382279.828	1.011	146.541	146.541	0.88	0.89	NO	556.1



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TotalTEQ,Furans,Dioxins

ID	Name	Concentration	Area	Response	Retention	Std. Dev.	Limit	Pass/Fail	Y/N	Score	
35	Total-tetrafurans	303.9016	24.96	2552.290	0.921	0.323	0.74	0.77	NO	8.2	
35	Total-tetrafurans	303.9016	24.52	1483.018	0.921	0.187	1.05	0.77	YES	9.0	
35	Total-tetrafurans	303.9016	24.29	1919.149	0.921	0.243	1.08	0.77	YES	10.7	
35	Total-tetrafurans	303.9016	24.14	1637.456	0.921	0.207	1.40	0.77	YES	10.8	
35	Total-tetrafurans	303.9016	24.03	1576.986	0.921	0.199	1.06	0.77	YES	9.4	
35	Total-tetrafurans	303.9016	23.94	1427.335	0.921	0.180	0.45	0.77	YES	4.9	
35	Total-tetrafurans	303.9016	23.81	1905.552	0.921	0.241	1.62	0.77	YES	11.7	
35	Total-tetrafurans	303.9016	23.63	8238.145	0.921	1.041	0.68	0.77	NO	34.4	
35	Total-tetrafurans	303.9016	23.05	1094.313	0.921	0.138	1.25	0.77	YES	7.4	
35	Total-tetrafurans	303.9016	22.78	1351.478	0.921	0.171	1.07	0.77	YES	9.5	
35	Total-tetrafurans	303.9016	26.51	2704.291	0.921	0.342	0.74	0.77	NO	13.9	
1	2378-TCDF	303.9016	26.29	1534.215	0.921	0.194	0.159	0.56	0.77	YES	5.5
35	Total-tetrafurans	303.9016	26.08	1000.911	0.921	0.127	0.78	0.77	NO	6.0	
35	Total-tetrafurans	303.9016	25.79	1035.585	0.921	0.131	0.75	0.77	NO	5.5	
35	Total-tetrafurans	303.9016	25.60	1335.389	0.921	0.169	0.65	0.77	YES	6.2	
35	Total-tetrafurans	303.9016	25.36	2167.531	0.921	0.274	0.54	0.77	YES	10.0	
35	Total-tetrafurans	303.9016	25.20	3170.967	0.921	0.401	0.91	0.77	YES	15.6	
35	Total-tetrafurans	303.9016	25.02	1206.184	0.921	0.152	0.86	0.77	NO	6.6	
40	Total-Furans	303.9016	28.39	673.747	1.065	0.074	0.65	0.77	YES	3.2	
37	Total-pentafurans	339.8597	30.06	1104.987	0.927	0.178	2.20	1.55	YES	4.6	
37	Total-pentafurans	339.8597	29.38	2687.014	0.927	0.432	1.51	1.55	NO	14.7	
37	Total-pentafurans	339.8597	29.31	1056.681	0.927	0.170	1.33	1.55	NO	9.5	
37	Total-pentafurans	339.8597	29.29	1625.620	0.927	0.262	1.49	1.55	NO	9.7	
3	23478-PeCDF	339.8597	31.78	1128.068	0.943	0.183	0.183	1.47	1.55	NO	5.9
2	12378-PeCDF	339.8597	30.45	1049.739	0.912	0.168	0.168	1.51	1.55	NO	3.7
38	Total-hexafurans	373.8208	33.72	2754.447	1.062	0.517	1.19	1.24	NO	16.4	
5	234678-HxCDF	373.8208	36.55	1186.952	1.073	0.231	0.231	1.07	1.24	NO	9.6
38	Total-hexafurans	373.8208	35.76	243.812	1.062	0.046	0.97	1.24	YES	3.0	
6	123678-HxCDF	373.8208	35.62	912.358	1.056	0.156	0.106	2.30	1.24	YES	4.6
4	123478-HxCDF	373.8208	35.45	1396.591	1.101	0.258	0.220	0.90	1.24	YES	7.6
38	Total-hexafurans	373.8208	35.32	410.159	1.062	0.077	1.24	1.24	NO	3.9	
38	Total-hexafurans	373.8208	35.27	334.035	1.062	0.063	1.03	1.24	YES	3.9	
38	Total-hexafurans	373.8208	34.81	8673.439	1.062	1.626	1.20	1.24	NO	54.2	
38	Total-hexafurans	373.8208	34.50	322.603	1.062	0.060	0.98	1.24	YES	2.8	
38	Total-hexafurans	373.8208	33.95	8646.403	1.062	1.621	1.36	1.24	NO	51.9	
9	1234789-HpCDF	407.7818	42.49	738.547	1.224	0.201	0.201	1.20	1.05	NO	5.6
39	Total-heptafurans	407.7818	40.57	26909.248	1.231	6.345	0.93	1.05	NO	137.7	
8	1234678-HpCDF	407.7818	39.76	14710.584	1.238	3.054	3.054	0.98	1.05	NO	81.2
10	OCDF	441.7428	47.87	22430.711	1.162	7.483	7.483	0.90	0.89	NO	36.8
36	Total-penta1	339.8597	27.71	12024.914		1.958	1.49	1.55	NO	133.0	
35	Total-tetrafurans	303.9016	23.84	1065.051	0.921	0.135	0.42	0.77	YES	8.3	
41	Total-tetradoxins	319.8965	24.08	4222.390	1.106	0.656	0.67	0.77	NO	19.3	
41	Total-tetradoxins	319.8965	27.06	669.838	1.106	0.104	1.02	0.77	YES	3.6	
11	2378-TCDD	319.8965	26.94	571.218	1.106	0.089	0.079	0.64	0.77	YES	3.5
41	Total-tetradoxins	319.8965	26.51	1081.070	1.106	0.168	0.66	0.77	NO	3.4	
41	Total-tetradoxins	319.8965	25.54	1584.490	1.106	0.246	0.91	0.77	YES	9.3	
41	Total-tetradoxins	319.8965	25.27	679.362	1.106	0.105	1.55	0.77	YES	4.1	
41	Total-tetradoxins	319.8965	25.03	1282.581	1.106	0.199	0.80	0.77	NO	6.8	
41	Total-tetradoxins	319.8965	24.33	2565.027	1.106	0.398	0.94	0.77	YES	14.3	

WF26H 04/05

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TotalTEQ,Furans,Dioxins

42	Total-pentadioxins	355.8546	30.96	1284.967	1.001	0.305		2.28	1.55	YES	9.2
42	Total-pentadioxins	355.8546	30.77	1435.093	1.001	0.340		1.63	1.55	NO	7.6
42	Total-pentadioxins	355.8546	30.66	1093.011	1.001	0.259		1.70	1.55	NO	7.1
42	Total-pentadioxins	355.8546	30.44	1574.833	1.001	0.374		1.25	1.55	YES	10.6
42	Total-pentadioxins	355.8546	29.83	538.494	1.001	0.128		1.68	1.55	NO	4.9
42	Total-pentadioxins	355.8546	29.35	2085.093	1.001	0.495		1.21	1.55	YES	17.8
42	Total-pentadioxins	355.8546	29.30	2119.821	1.001	0.503		2.16	1.55	YES	14.4
12	12378-PeCDD	355.8546	32.03	875.060	1.001	0.208	0.160	0.88	1.55	YES	5.3
42	Total-pentadioxins	355.8546	31.35	627.402	1.001	0.149		1.75	1.55	NO	6.1
43	Total-hexadioxins	389.8157	35.73	8018.883	0.937	1.953		2.08	1.24	YES	41.4
43	Total-hexadioxins	389.8157	35.33	4598.385	0.937	1.120		1.05	1.24	NO	21.8
43	Total-hexadioxins	389.8157	34.53	9785.729	0.937	2.384		1.10	1.24	NO	46.2
15	123789-HxCDD	389.8157	37.25	2177.207	0.904	0.550	0.483	1.55	1.24	YES	15.9
14	123678-HxCDD	389.8157	36.83	2764.983	0.929	0.640	0.552	1.60	1.24	YES	14.2
16	1234678-HpCDD	423.7766	41.60	59877.893	1.029	17.228	17.228	1.01	1.05	NO	216.9
44	Total-heptadioxins	423.7766	40.32	110485.223	1.029	31.789		1.05	1.05	NO	415.6
17	OCDD	457.7377	47.60	382279.828	1.011	146.541	146....	0.88	0.89	NO	556.1

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PFK1

Retention Time	Area	Height	Width	Area%	Height%	Width%
48	FUNCTION1 PFK	330.9792	22.43	0.000		36.7
48	FUNCTION1 PFK	330.9792	22.22	0.000		41.6
48	FUNCTION1 PFK	330.9792	21.86	0.000		57.0
48	FUNCTION1 PFK	330.9792	21.51	0.000		60.9
48	FUNCTION1 PFK	330.9792	21.31	0.000		65.2
48	FUNCTION1 PFK	330.9792	21.18	0.000		69.2
48	FUNCTION1 PFK	330.9792	21.13	0.000		69.5
48	FUNCTION1 PFK	330.9792	25.11	0.000		1.5
48	FUNCTION1 PFK	330.9792	25.05	0.000		2.2
48	FUNCTION1 PFK	330.9792	24.91	0.000		1.1
48	FUNCTION1 PFK	330.9792	24.73	0.000		1.1
48	FUNCTION1 PFK	330.9792	24.67	0.000		0.6
48	FUNCTION1 PFK	330.9792	24.54	0.000		1.4
48	FUNCTION1 PFK	330.9792	24.39	0.000		1.6
48	FUNCTION1 PFK	330.9792	23.97	0.000		0.8
48	FUNCTION1 PFK	330.9792	23.73	0.000		2.2
48	FUNCTION1 PFK	330.9792	23.63	0.000		4.9
48	FUNCTION1 PFK	330.9792	23.36	0.000		12.6
48	FUNCTION1 PFK	330.9792	23.22	0.000		15.7
48	FUNCTION1 PFK	330.9792	23.14	0.000		18.5
48	FUNCTION1 PFK	330.9792	22.97	0.000		23.2
48	FUNCTION1 PFK	330.9792	22.87	0.000		25.3
48	FUNCTION1 PFK	330.9792	22.78	0.000		28.3
48	FUNCTION1 PFK	330.9792	28.01	0.000		2.4
48	FUNCTION1 PFK	330.9792	27.92	0.000		0.5
48	FUNCTION1 PFK	330.9792	27.69	0.000		1.3
48	FUNCTION1 PFK	330.9792	27.54	0.000		1.7
48	FUNCTION1 PFK	330.9792	27.50	0.000		1.9
48	FUNCTION1 PFK	330.9792	27.26	0.000		1.5
48	FUNCTION1 PFK	330.9792	26.86	0.000		1.1
48	FUNCTION1 PFK	330.9792	26.81	0.000		0.8
48	FUNCTION1 PFK	330.9792	26.66	0.000		1.7
48	FUNCTION1 PFK	330.9792	26.56	0.000		0.8
48	FUNCTION1 PFK	330.9792	26.21	0.000		0.4
48	FUNCTION1 PFK	330.9792	26.12	0.000		1.3
48	FUNCTION1 PFK	330.9792	25.66	0.000		0.7
48	FUNCTION1 PFK	330.9792	25.62	0.000		0.7
48	FUNCTION1 PFK	330.9792	25.32	0.000		1.2
48	FUNCTION1 PFK	330.9792	25.24	0.000		1.6
48	FUNCTION1 PFK	330.9792	28.26	0.000		1.6
48	FUNCTION1 PFK	330.9792	28.18	0.000		0.7

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PFK2

ID	Name	Time	Area	Peak	Area	SN
49	FUNCTION2 PFK	366.9792	31.55	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	31.11	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	31.06	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	30.84	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	30.31	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	29.89	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	29.45	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	29.38	0.000	0.000	1.8
49	FUNCTION2 PFK	366.9792	29.30	0.000	0.000	0.5
49	FUNCTION2 PFK	366.9792	28.97	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	28.93	0.000	0.000	1.9
49	FUNCTION2 PFK	366.9792	28.74	0.000	0.000	1.8
49	FUNCTION2 PFK	366.9792	28.59	0.000	0.000	1.0
49	FUNCTION2 PFK	366.9792	33.04	0.000	0.000	1.3

PFK3

ID	Name	Time	Area	Peak	Area	SN
50	FUNCTION3 PFK	380.9760	34.87	0.000	0.000	1.6
50	FUNCTION3 PFK	380.9760	34.82	0.000	0.000	1.2
50	FUNCTION3 PFK	380.9760	34.56	0.000	0.000	1.7
50	FUNCTION3 PFK	380.9760	34.49	0.000	0.000	1.3
50	FUNCTION3 PFK	380.9760	34.39	0.000	0.000	1.1
50	FUNCTION3 PFK	380.9760	34.22	0.000	0.000	1.3
50	FUNCTION3 PFK	380.9760	34.08	0.000	0.000	0.9
50	FUNCTION3 PFK	380.9760	34.01	0.000	0.000	2.1
50	FUNCTION3 PFK	380.9760	33.84	0.000	0.000	0.9
50	FUNCTION3 PFK	380.9760	33.73	0.000	0.000	1.4
50	FUNCTION3 PFK	380.9760	33.51	0.000	0.000	0.8
50	FUNCTION3 PFK	380.9760	33.39	0.000	0.000	0.9
50	FUNCTION3 PFK	380.9760	33.33	0.000	0.000	1.9
50	FUNCTION3 PFK	380.9760	33.26	0.000	0.000	0.5
50	FUNCTION3 PFK	380.9760	38.56	0.000	0.000	0.6
50	FUNCTION3 PFK	380.9760	38.41	0.000	0.000	1.0
50	FUNCTION3 PFK	380.9760	38.32	0.000	0.000	0.9
50	FUNCTION3 PFK	380.9760	38.14	0.000	0.000	0.7
50	FUNCTION3 PFK	380.9760	37.81	0.000	0.000	0.8
50	FUNCTION3 PFK	380.9760	37.60	0.000	0.000	5.0
50	FUNCTION3 PFK	380.9760	37.21	0.000	0.000	0.6
50	FUNCTION3 PFK	380.9760	37.10	0.000	0.000	0.9
50	FUNCTION3 PFK	380.9760	36.71	0.000	0.000	1.3
50	FUNCTION3 PFK	380.9760	36.68	0.000	0.000	2.0
50	FUNCTION3 PFK	380.9760	36.52	0.000	0.000	2.4
50	FUNCTION3 PFK	380.9760	36.43	0.000	0.000	1.5
50	FUNCTION3 PFK	380.9760	36.32	0.000	0.000	0.7
50	FUNCTION3 PFK	380.9760	36.25	0.000	0.000	0.7
50	FUNCTION3 PFK	380.9760	35.46	0.000	0.000	2.3
50	FUNCTION3 PFK	380.9760	35.08	0.000	0.000	0.8
50	FUNCTION3 PFK	380.9760	38.64	0.000	0.000	1.4

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PK4

Sample	Name	Time	RT	Abs. Conc.	RRF (%)	EMPC	1.000	1.000	1.000	SN
51	FUNCTION4 PFK	430.9728	41.93	0.000						0.8
51	FUNCTION4 PFK	430.9728	41.51	0.000						1.2
51	FUNCTION4 PFK	430.9728	41.40	0.000						0.6
51	FUNCTION4 PFK	430.9728	41.36	0.000						0.5
51	FUNCTION4 PFK	430.9728	41.12	0.000						0.6
51	FUNCTION4 PFK	430.9728	40.70	0.000						1.4
51	FUNCTION4 PFK	430.9728	40.63	0.000						1.2
51	FUNCTION4 PFK	430.9728	40.54	0.000						0.5
51	FUNCTION4 PFK	430.9728	40.19	0.000						1.2
51	FUNCTION4 PFK	430.9728	39.67	0.000						0.5
51	FUNCTION4 PFK	430.9728	39.41	0.000						1.5
51	FUNCTION4 PFK	430.9728	39.10	0.000						1.1
51	FUNCTION4 PFK	430.9728	39.01	0.000						1.4
51	FUNCTION4 PFK	430.9728	38.92	0.000						0.8
51	FUNCTION4 PFK	430.9728	44.81	0.000						1.3
51	FUNCTION4 PFK	430.9728	44.14	0.000						1.9
51	FUNCTION4 PFK	430.9728	44.00	0.000						2.0
51	FUNCTION4 PFK	430.9728	43.86	0.000						1.3
51	FUNCTION4 PFK	430.9728	43.34	0.000						1.5
51	FUNCTION4 PFK	430.9728	43.21	0.000						1.2
51	FUNCTION4 PFK	430.9728	43.11	0.000						1.9
51	FUNCTION4 PFK	430.9728	43.03	0.000						1.3
51	FUNCTION4 PFK	430.9728	42.70	0.000						1.1
51	FUNCTION4 PFK	430.9728	42.19	0.000						1.2
51	FUNCTION4 PFK	430.9728	42.15	0.000						1.5

PK5

Sample	Name	Time	RT	Abs. Conc.	RRF (%)	EMPC	1.000	1.000	1.000	SN
52	FUNCTION5 PFK	480.9696	46.72	0.000						1.4
52	FUNCTION5 PFK	480.9696	45.78	0.000						1.5
52	FUNCTION5 PFK	480.9696	45.68	0.000						1.1
52	FUNCTION5 PFK	480.9696	45.14	0.000						0.6
52	FUNCTION5 PFK	480.9696	49.43	0.000						0.9
52	FUNCTION5 PFK	480.9696	49.33	0.000						0.9
52	FUNCTION5 PFK	480.9696	49.13	0.000						1.1
52	FUNCTION5 PFK	480.9696	49.09	0.000						0.7
52	FUNCTION5 PFK	480.9696	48.78	0.000						0.8
52	FUNCTION5 PFK	480.9696	48.51	0.000						0.9
52	FUNCTION5 PFK	480.9696	47.38	0.000						2.2
52	FUNCTION5 PFK	480.9696	47.34	0.000						1.6
52	FUNCTION5 PFK	480.9696	47.12	0.000						1.3

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ETHERS1

Peak	Name	Area	RT	Abundance	Height	Area%
53	FUNCTION1 HXCD...	375.8364	26.72	0.000	0.000	3.7
53	FUNCTION1 HXCD...	375.8364	25.00	0.000	0.000	3.1
53	FUNCTION1 HXCD...	375.8364	24.60	0.000	0.000	3.8
53	FUNCTION1 HXCD...	375.8364	24.14	0.000	0.000	6.9
53	FUNCTION1 HXCD...	375.8364	23.70	0.000	0.000	1.5

ETHERS2

Peak	Name	Area	RT	Abundance	Height	Area%
54	FUNCTION1 HPCD...	409.7974	26.90	0.000	0.000	3.9
54	FUNCTION1 HPCD...	409.7974	26.35	0.000	0.000	1.6
54	FUNCTION1 HPCD...	409.7974	25.57	0.000	0.000	2.4
54	FUNCTION1 HPCD...	409.7974	24.12	0.000	0.000	1.7
54	FUNCTION1 HPCD...	409.7974	23.34	0.000	0.000	1.8
54	FUNCTION1 HPCD...	409.7974	23.24	0.000	0.000	1.9
54	FUNCTION1 HPCD...	409.7974	22.57	0.000	0.000	3.2
54	FUNCTION1 HPCD...	409.7974	21.42	0.000	0.000	2.3
54	FUNCTION1 HPCD...	409.7974	21.15	0.000	0.000	2.8

ETHERS3

Peak	Name	Area	RT	Abundance	Height	Area%
55	FUNCTION2 HPCD...	409.7974	32.38	0.000	0.000	1.6
55	FUNCTION2 HPCD...	409.7974	31.85	0.000	0.000	1.6
55	FUNCTION2 HPCD...	409.7974	30.46	0.000	0.000	1.7

ETHERS4

Peak	Name	Area	RT	Abundance	Height	Area%
56	FUNCTION3 OCDPE	445.7555	33.35	0.000	0.000	5.4

ETHERS5

Peak	Name	Area	RT	Abundance	Height	Area%
57	FUNCTION4 NCDPE	479.7165	41.55	0.000	0.000	4.4
57	FUNCTION4 NCDPE	479.7165	39.46	0.000	0.000	7.2
57	FUNCTION4 NCDPE	479.7165	39.35	0.000	0.000	400.8

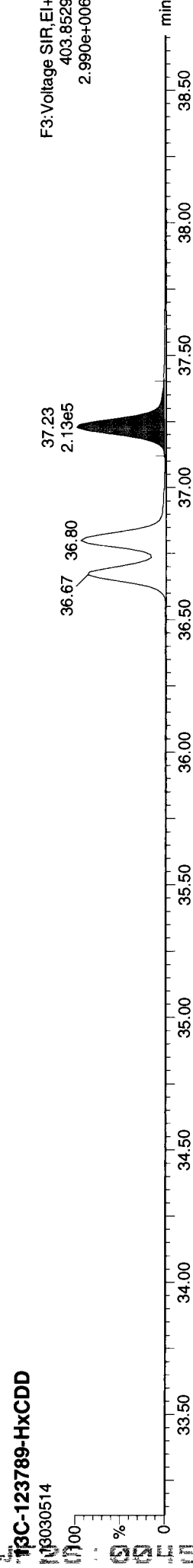
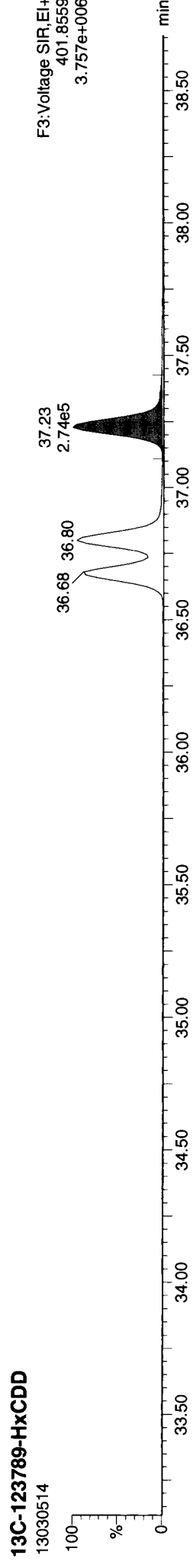
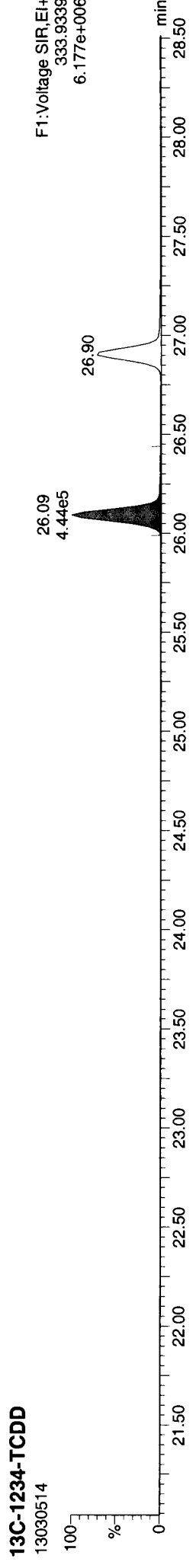
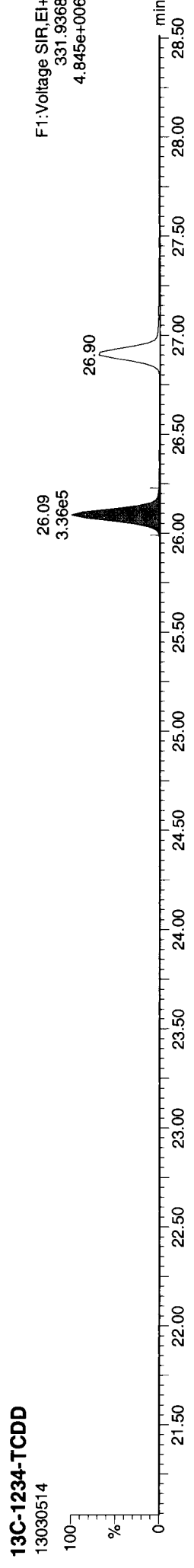
ETHERS6

Peak	Name	Area	RT	Abundance	Height	Area%
------	------	------	----	-----------	--------	-------

Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

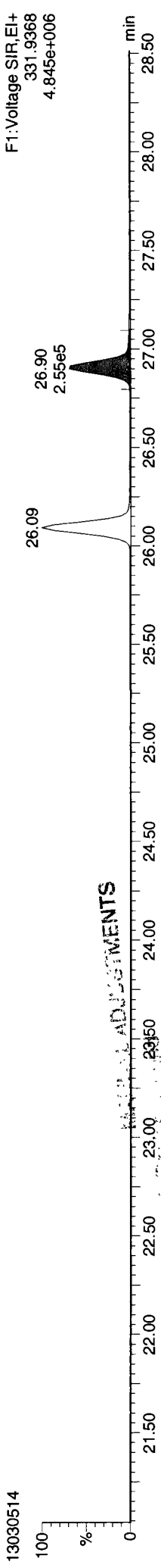
ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk



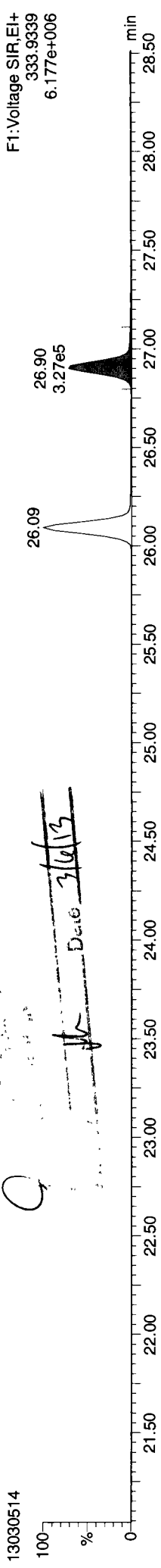
**Quantify Sample Report**    **Masslynx 4.1 SCN 714**  
 Dataset: F:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

**ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk**

**13C-2378-TCDD**

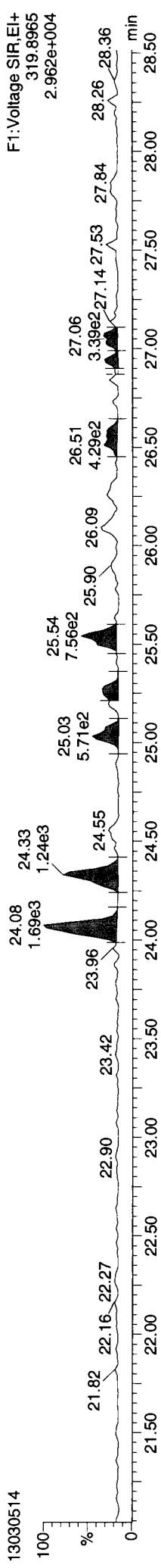


**13C-2378-TCDD**

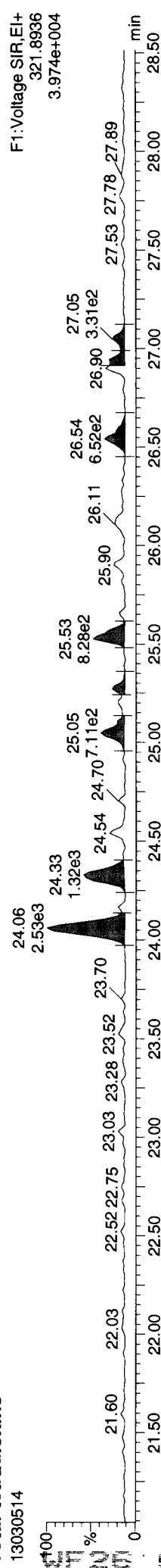


O  
 Date 3/6/13

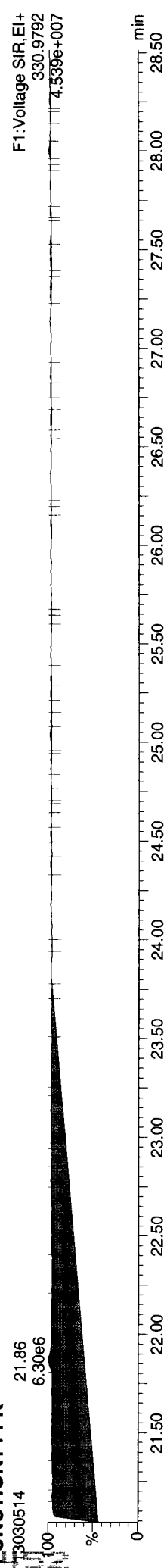
**Total-tetradoxins**



**Total-tetradoxins**



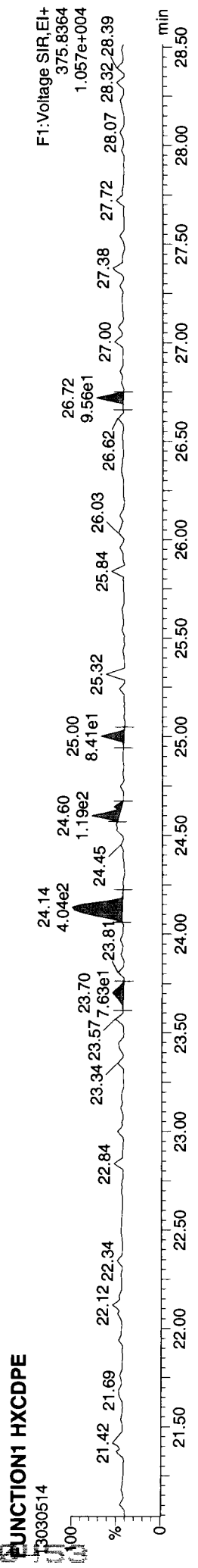
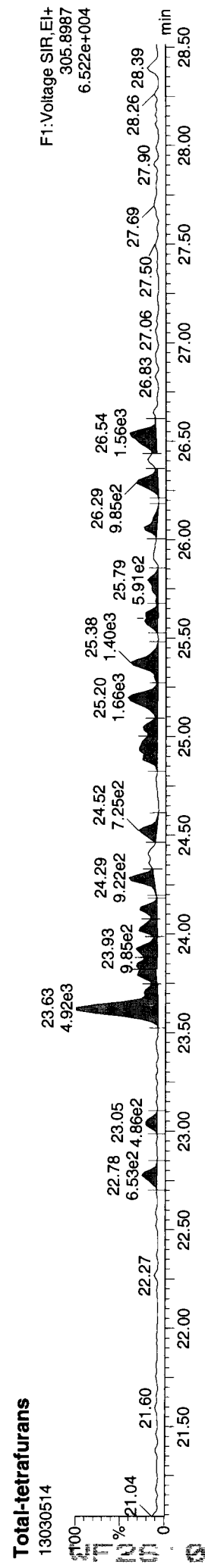
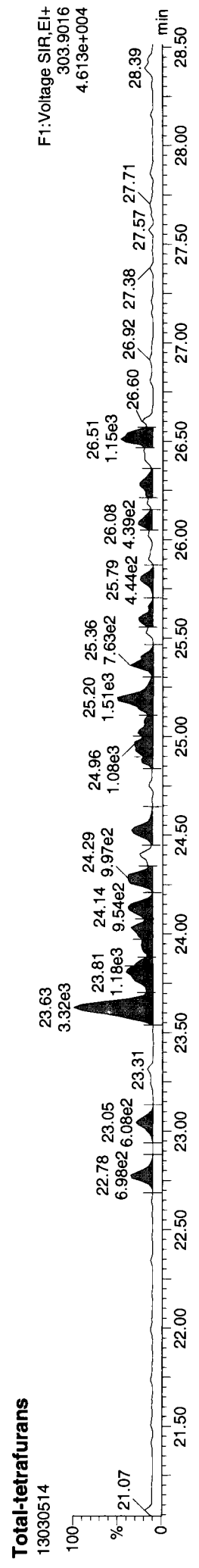
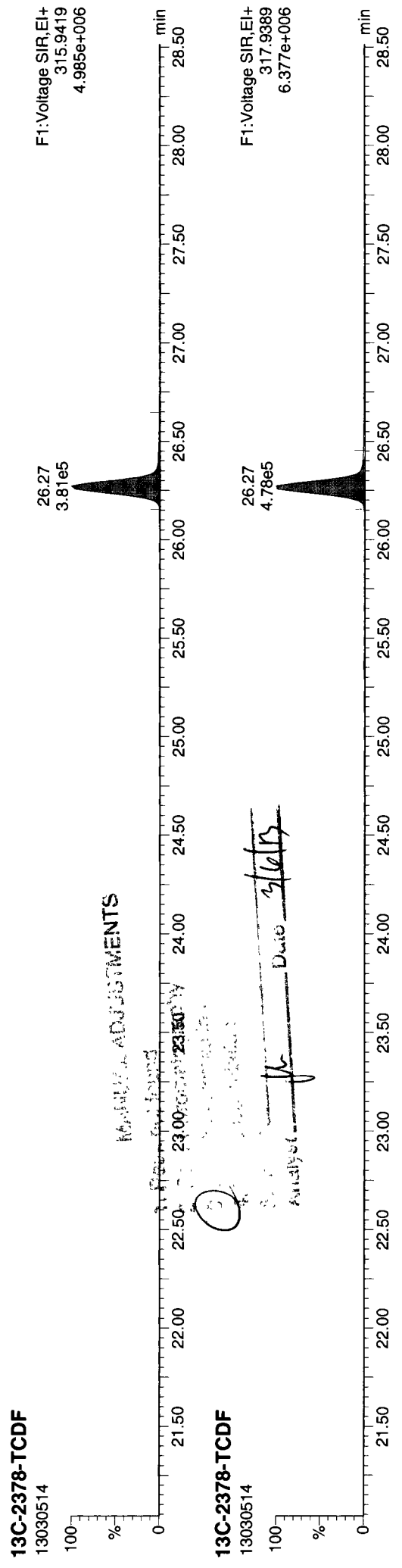
**FUNCTION1 PFK**





Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

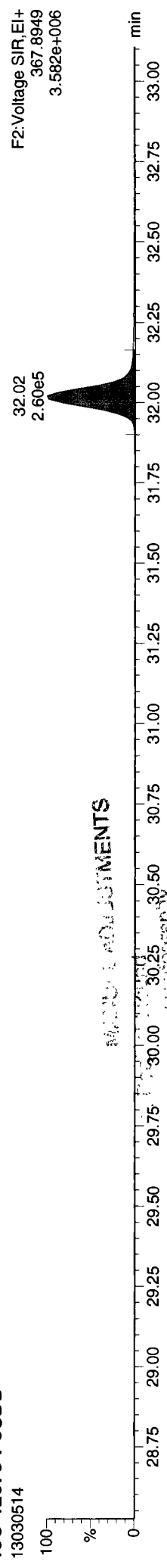
ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk



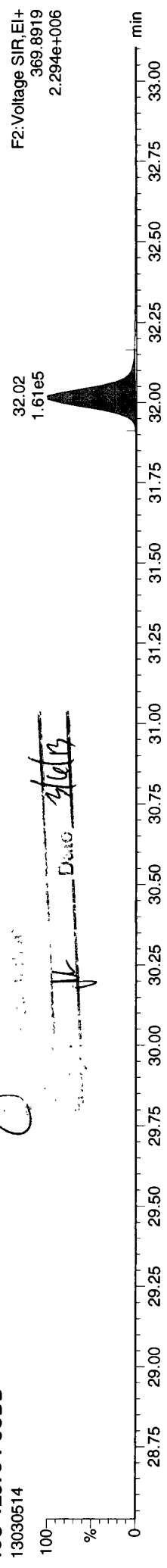
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

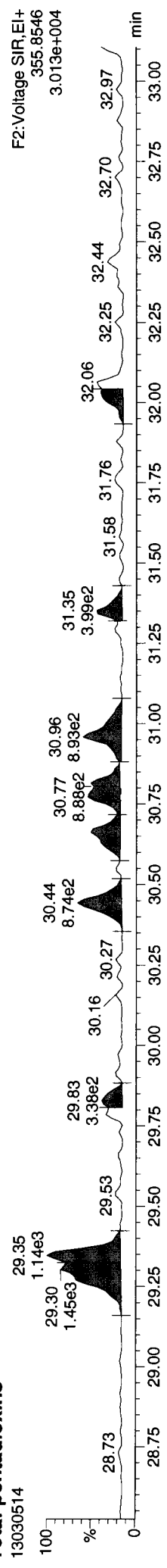
13C-12378-PeCDD  
13030514



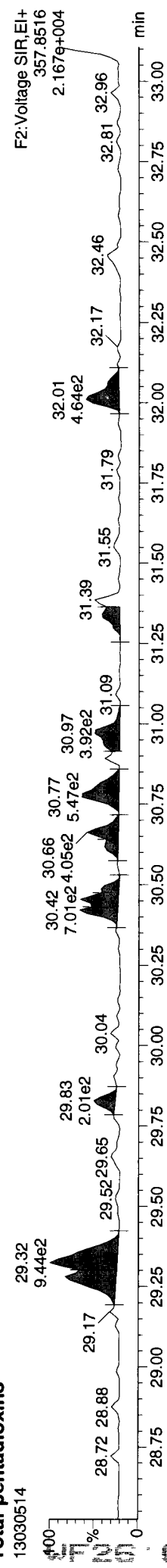
13C-12378-PeCDD  
13030514



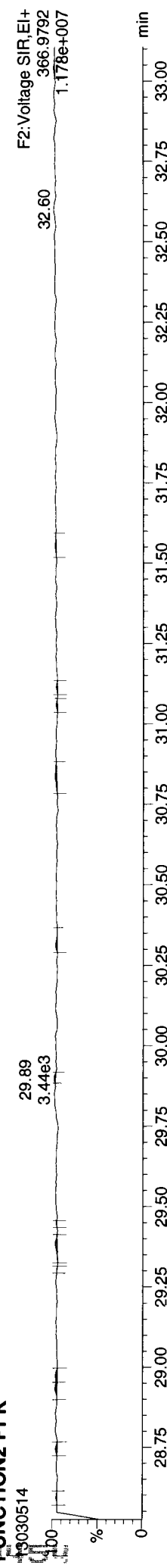
Total-pentadioxins  
13030514



Total-pentadioxins  
13030514



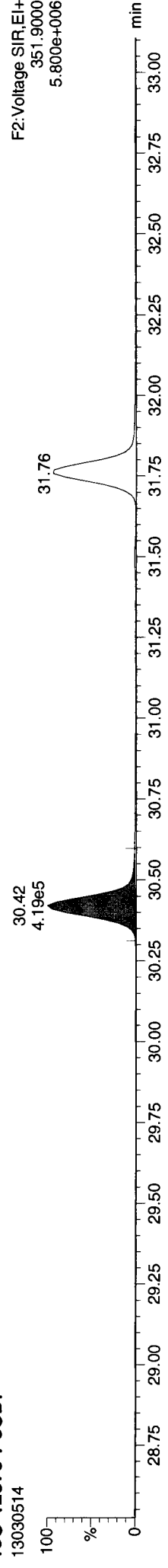
FUNCTION2 PFK  
13030514



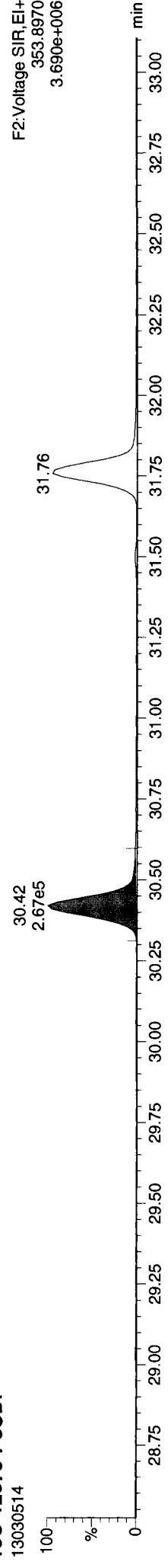
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

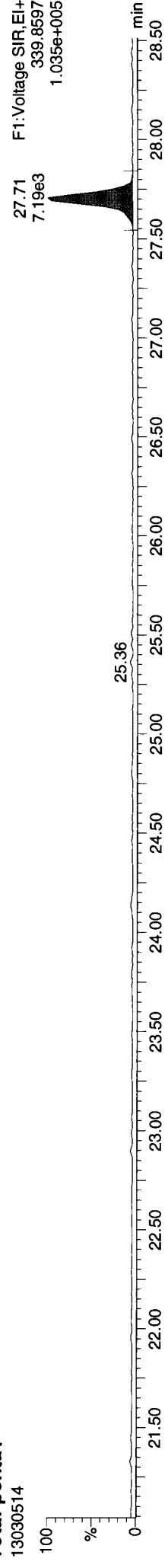
13030514  
13C-12378-PeCDF



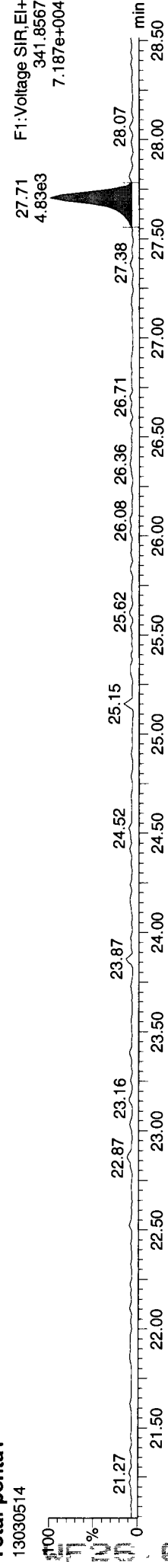
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13C-12378-PeCDF



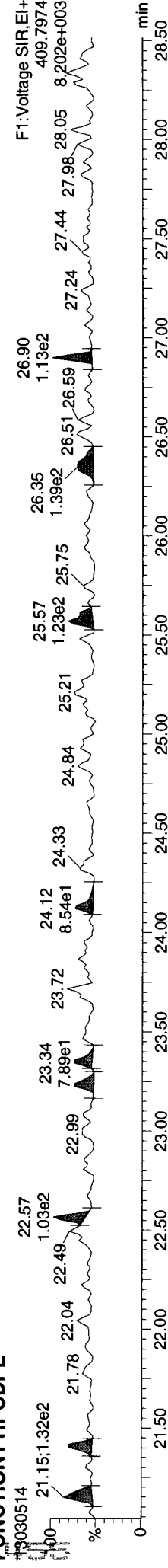
13030514  
Total-penta1



13030514  
Total-penta1



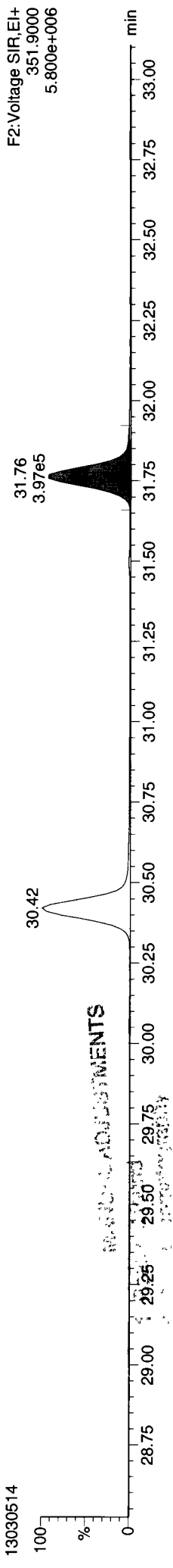
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FUNCTION1 HPCDPE



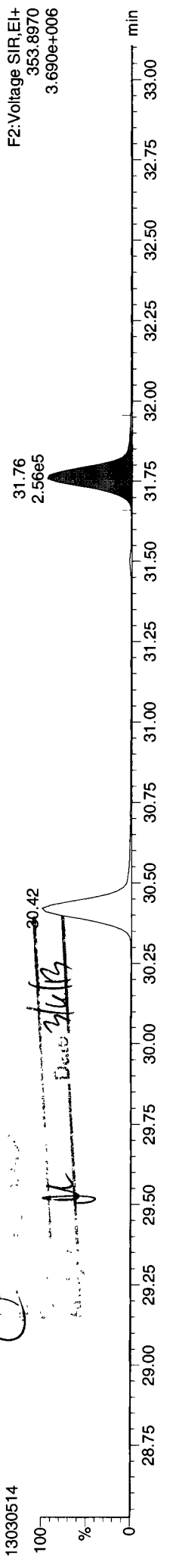
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

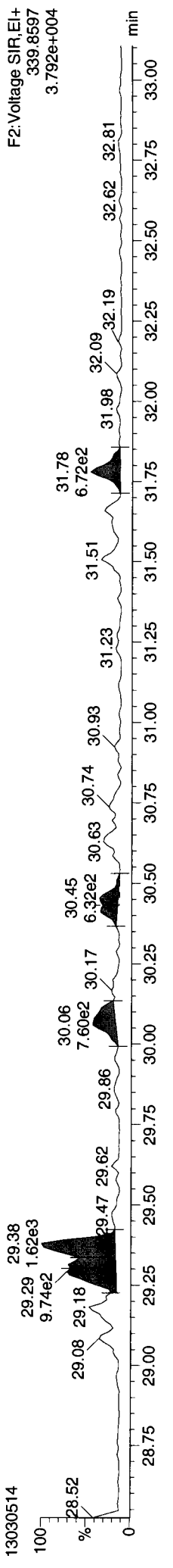
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13030514



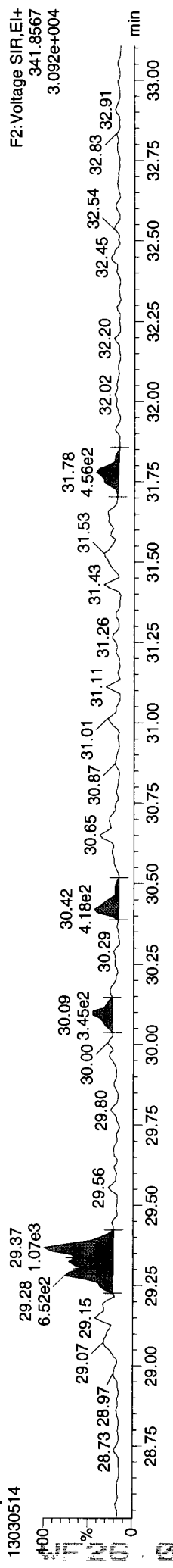
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13030514



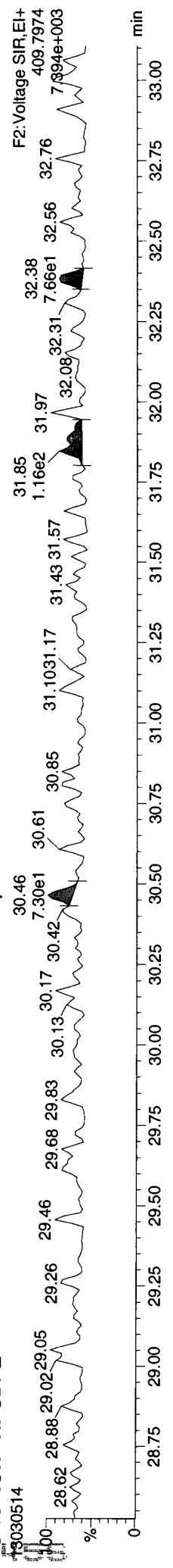
Total-pentafurans  
13030514



Total-pentafurans  
13030514



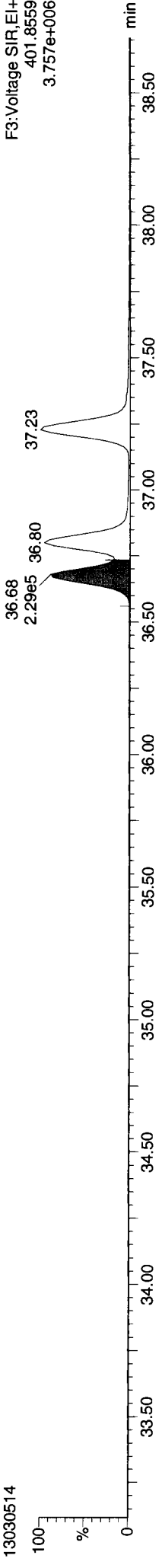
FUNCTION2 HPCDPE  
13030514



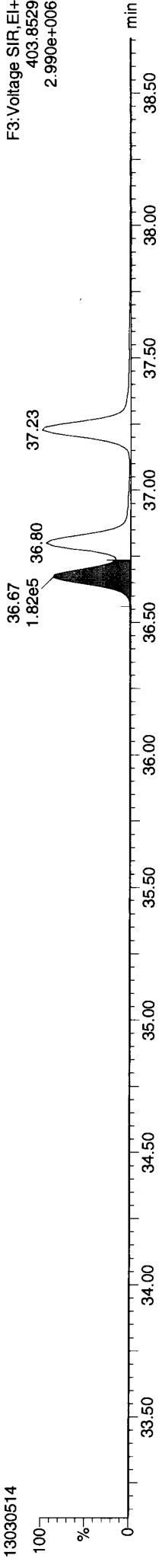
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

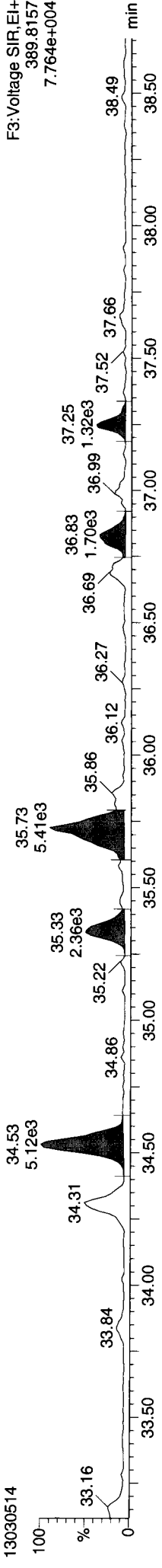
13C-123478-HxCDD



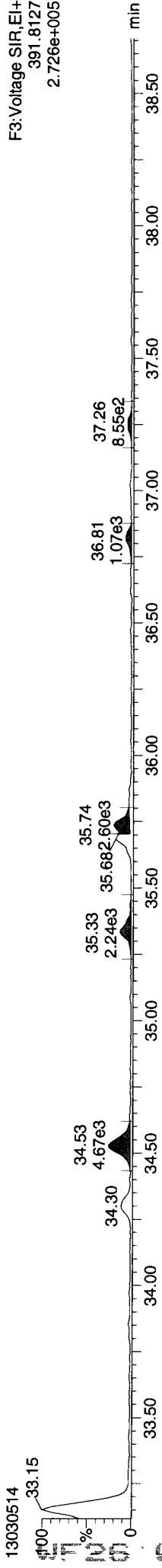
13C-123478-HxCDD



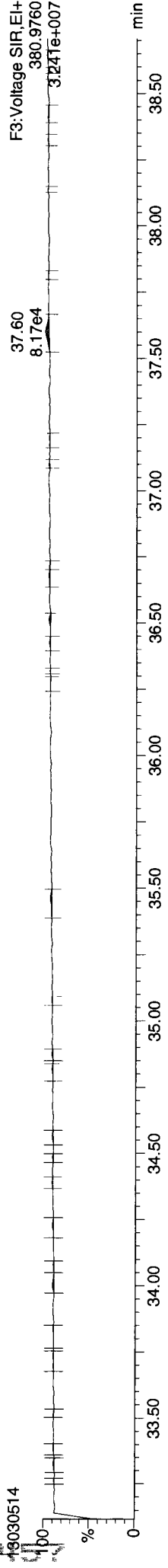
Total-hexadioxins



Total-hexadioxins



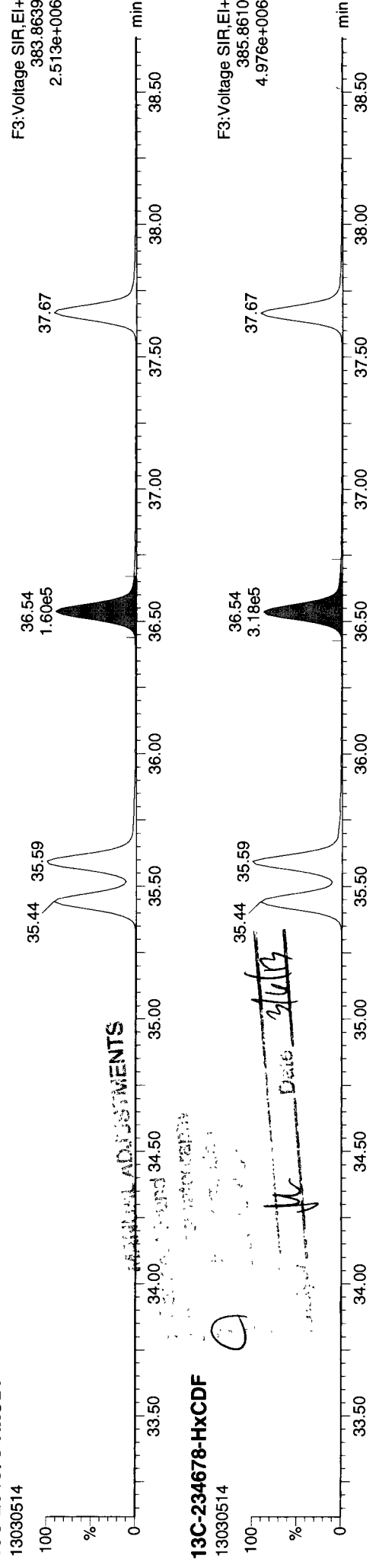
FUNCTION3 PFK



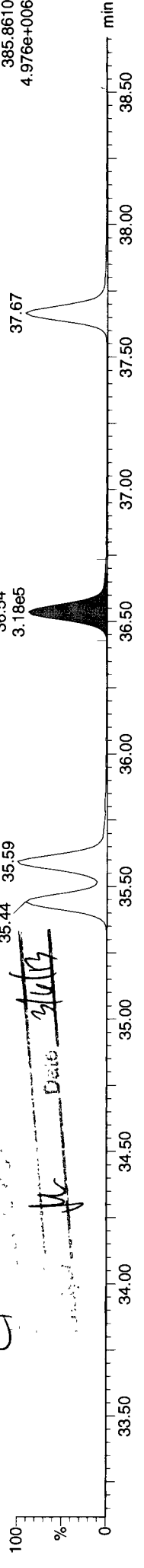
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

13C-234678-HxCDF  
13030514

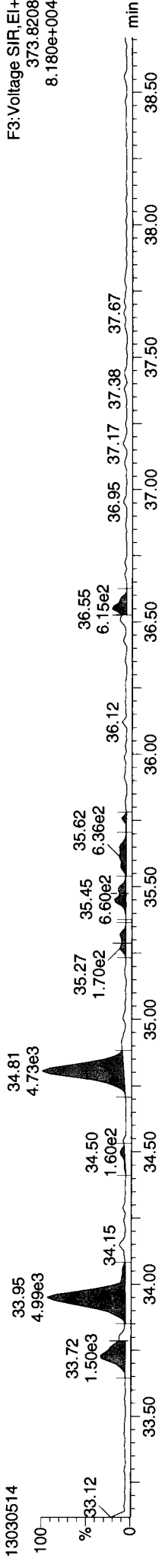


13C-234678-HxCDF  
13030514



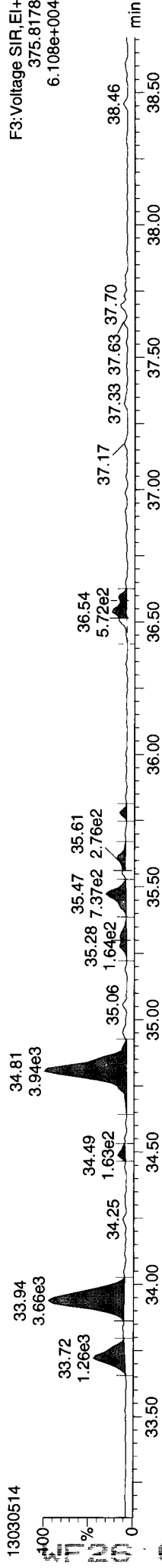
Total-hexafurans

13030514



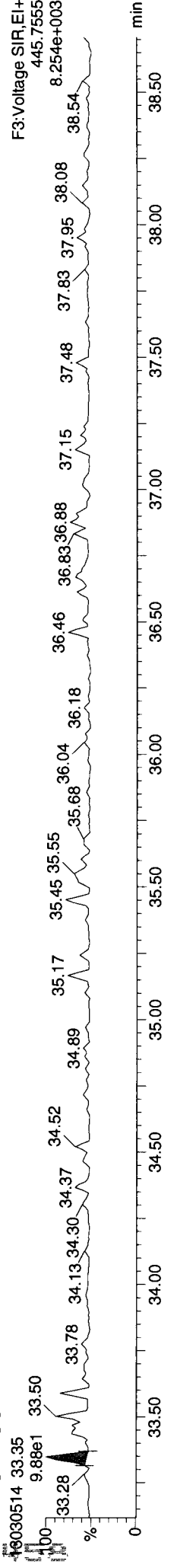
Total-hexafurans

13030514



FUNCTION3 OCDPE

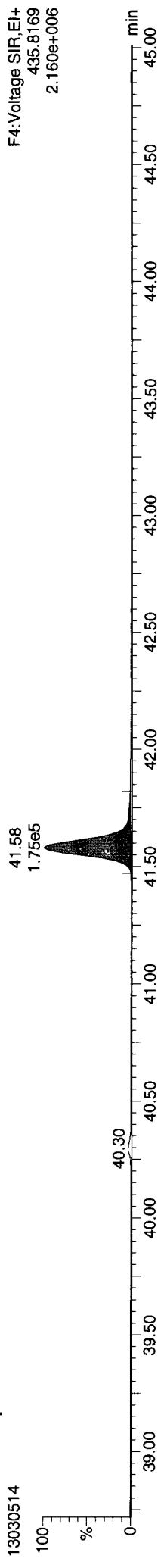
13030514



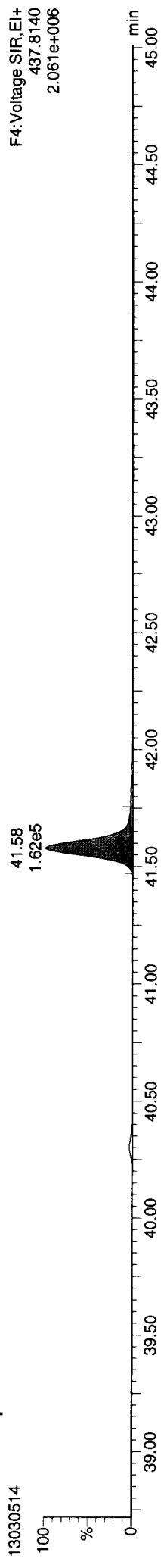
**Quantify Sample Report**      **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

**ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk**

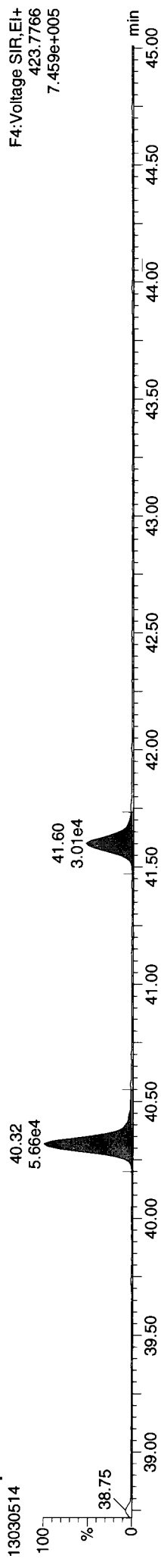
**13C-1234678-HpCDD**



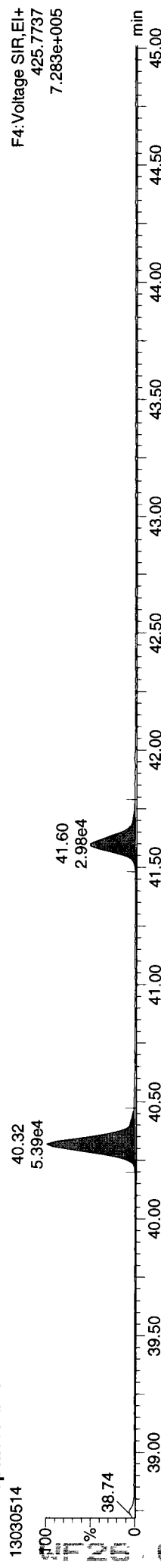
**13C-1234678-HpCDD**



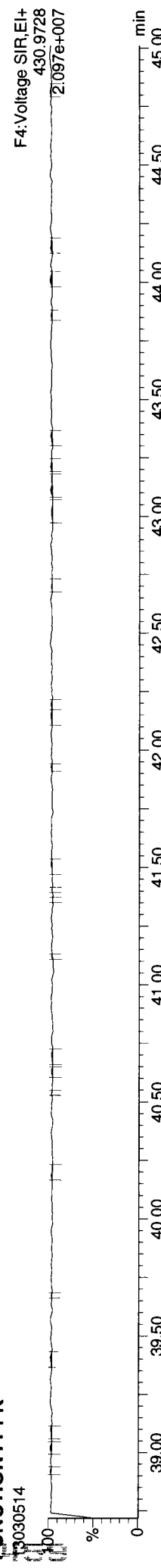
**Total-heptadioxins**



**Total-heptadioxins**



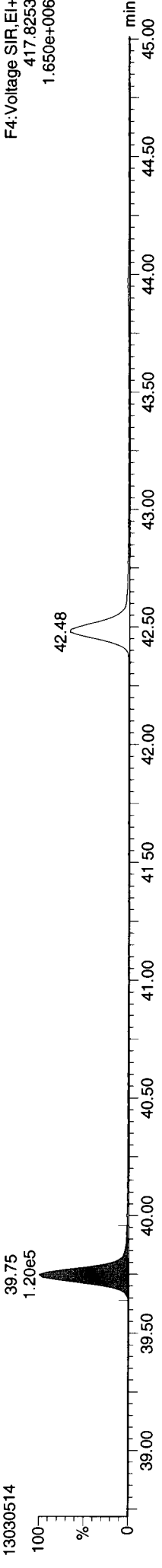
**FUNCTION4 PFK**



Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

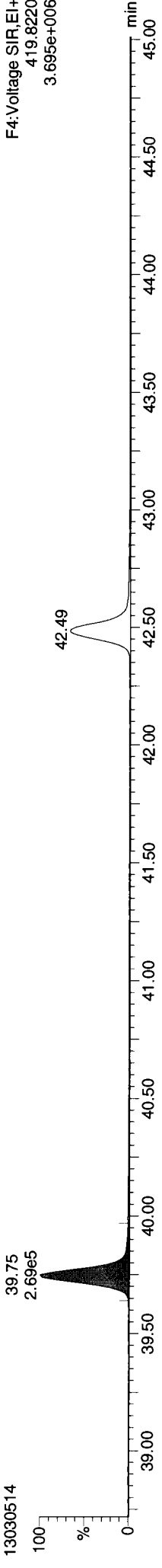
ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



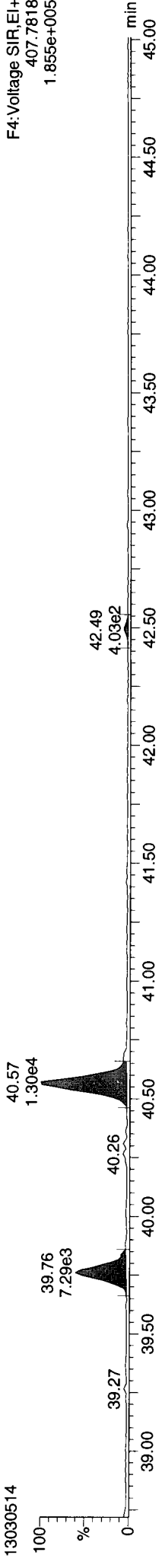
F4: Voltage SIR, EI+  
417.8253  
1.650e+006

13C-1234678-HpCDF



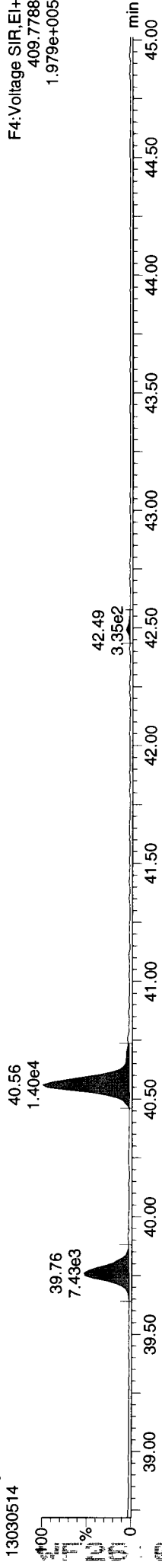
F4: Voltage SIR, EI+  
419.8220  
3.695e+006

Total-heptafurans



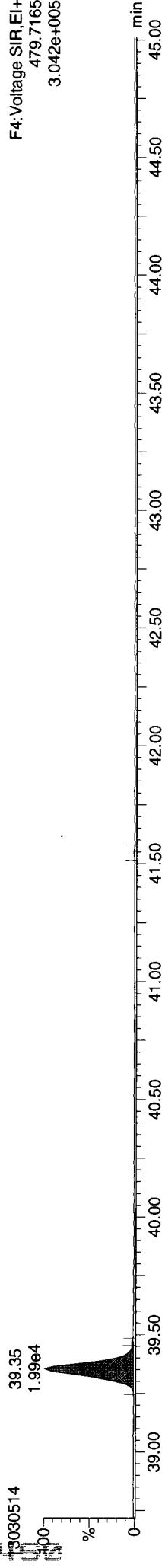
F4: Voltage SIR, EI+  
407.7818  
1.855e+005

Total-heptafurans



F4: Voltage SIR, EI+  
409.7788  
1.979e+005

FUNCTION4 NCDPE

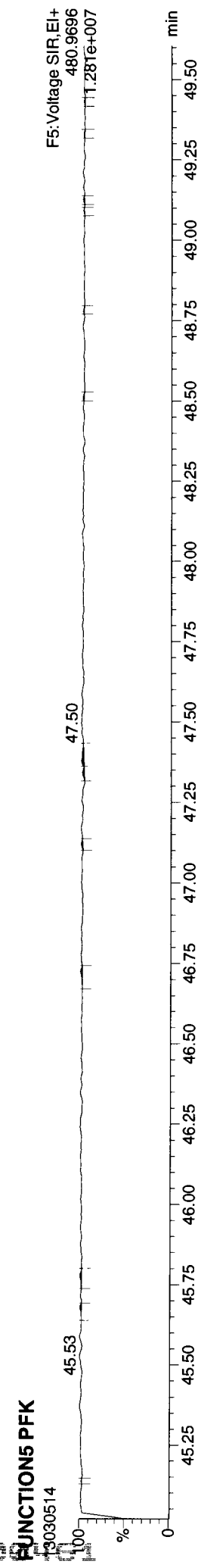
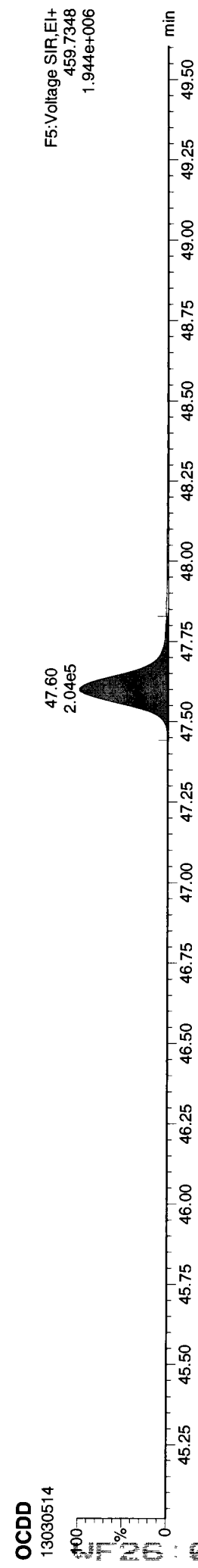
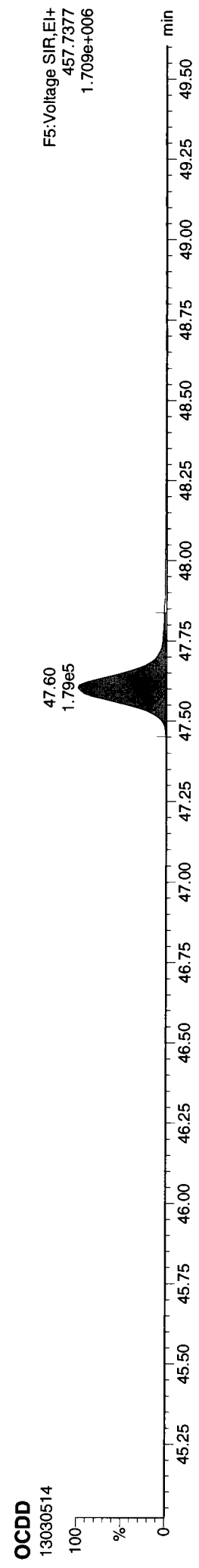
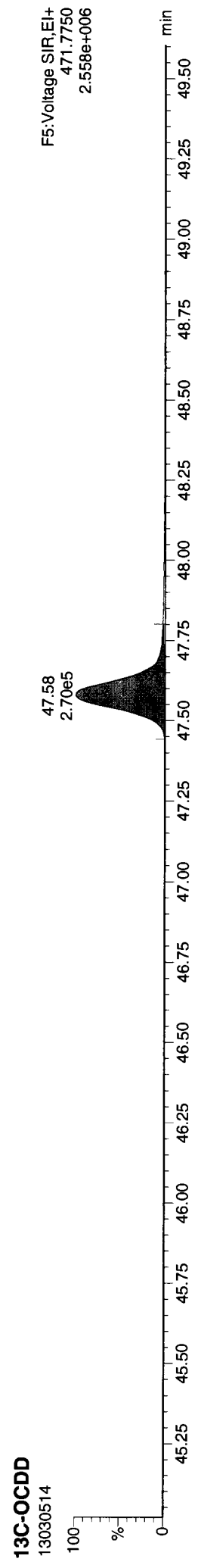
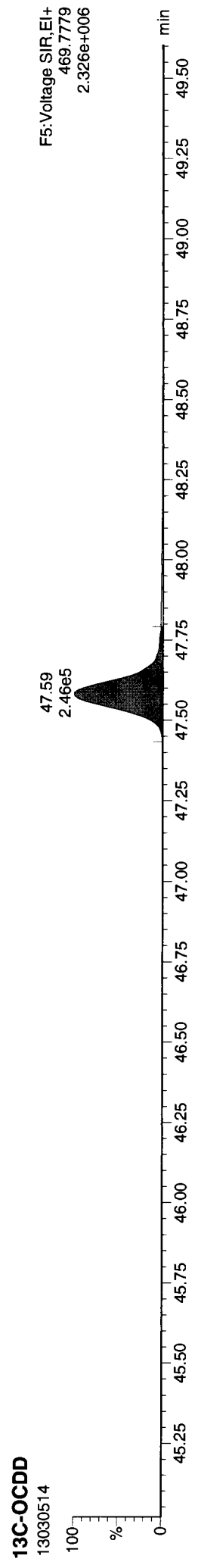


F4: Voltage SIR, EI+  
479.7165  
3.042e+005



**Quantify Sample Report** MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

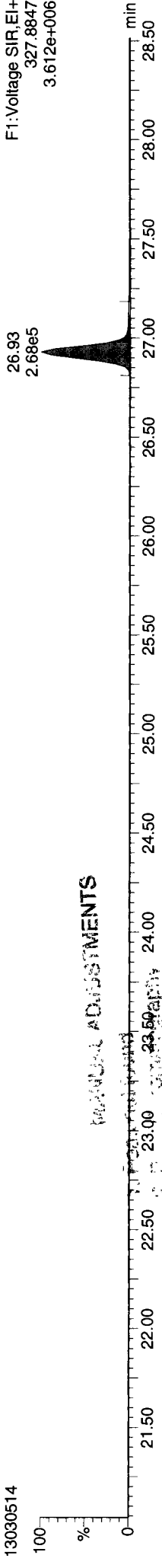
**ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk**



Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:24:22 Pacific Standard Time

ID: WF26H, Name: 13030514, Date: 05-Mar-2013, Time: 23:13:27, Conditions: AUTOSPEC01, User: pk

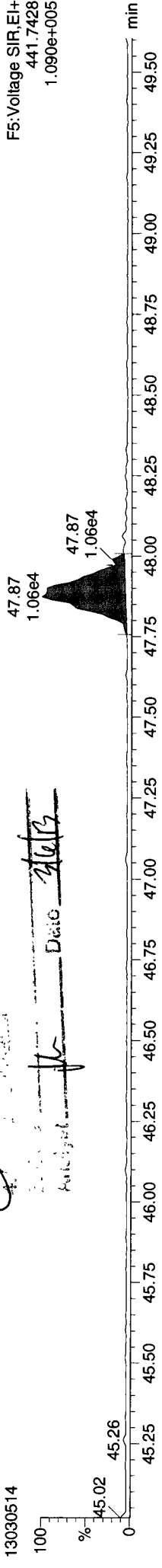
37CL-2378-TCDD  
13030514



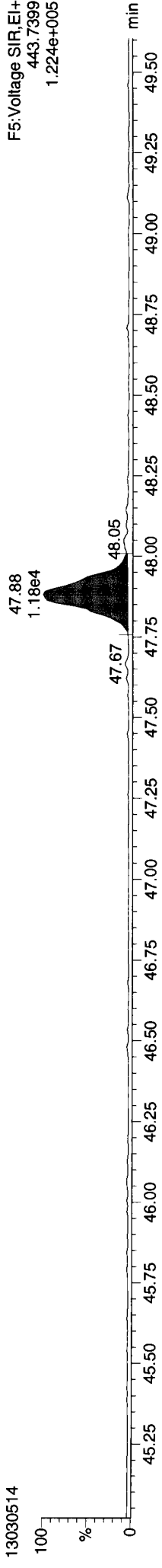
REPEATED ADJUSTMENTS

OCDF  
13030514

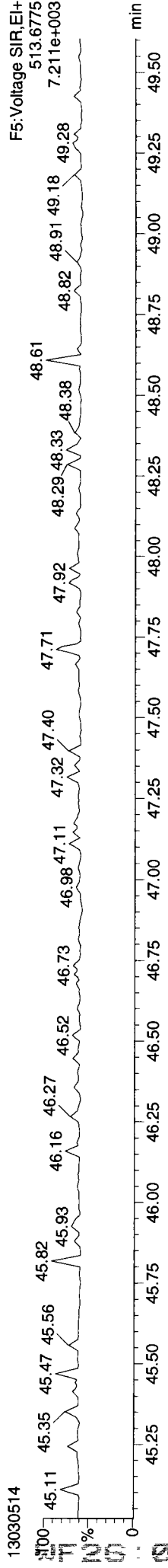
*pk*  
Date 4/6/13



OCDF  
13030514



FUNCTION5 DCDPE  
13030514



13030514

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26I  
 Lab.File ID: 13030515  
 Date Analysed: 06-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.039
12378-PeCDD	356/358	0.00			0.056
123478-HxCDD	390/392	0.00			0.065
123678-HxCDD	390/392	0.00			0.064
123789-HxCDD	390/392	0.00			0.068
1234678-HpCDD	424/426	41.61	1.35		
OCDD	458/460	47.60	13.6		
2378-TCDF	304/306	0.00			0.042
12378-PeCDF	340/342	0.00			0.040
23478-PeCDF	340/342	0.00			0.039
123478-HxCDF	374/376	35.46	0.0332	0.0260	
234678-HxCDF	374/376	0.00			0.041
123678-HxCDF	374/376	0.00			0.036
123789-HxCDF	374/376	0.00			0.044
1234678-HpCDF	408/410	39.78	0.180	0.158	
1234789-HpCDF	408/410	0.00			0.061
OCDF	442/444	47.88	0.631	0.521	

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

Component	37.239	0.000	3.70e5	2.87e5	1.000	1.289	1.240	1631.2	3152	1918	5.14e6	4.06e6	NO	
13C-123789-HxCDD	37.239	0.000	3.70e5	2.87e5	1.000	1.289	1.240	1631.2	3152	1918	5.14e6	4.06e6	NO	100.000
Total-tetrafurans			1.43e2		0.921				988		3.14e3			0.037
Total-penta1			4.04e2						981		5.66e3			0.084
Total-pentafurans			0.00e0		0.927				777		0.00e0			
Total-hexafurans			8.58e2		1.062				817		2.26e4			0.277
Total-heptafurans			2.30e3		1.231				548		3.44e4			0.751
Total-Furans			4.72e3		1.065				988		7.94e4			1.780
Total-tetradioxins			2.32e3		1.106				854		3.69e4			0.641
Total-pentadioxins			1.61e2		1.001				1104		4.57e3			0.064
Total-hexadioxins			1.24e3		0.937				937		1.89e4			0.406
Total-heptadioxins			7.98e3		1.029				828		1.18e5			3.109
Total-Dioxins			3.40e4		0.994				854		4.07e5			17.771
Total-TEQ			3.87e4						854		4.86e5			19.551
37CL-2378-TCDD	26.930	1.032	3.78e5		1.051			3736.2	1383		5.17e6			33.146
FUNCTION1 PFK			5.06e5						323426		4.82e6			0.000
FUNCTION2 PFK			3.37e6						156462		3.95e7			0.000
FUNCTION3 PFK			1.06e7						251118		6.99e7			
FUNCTION4 PFK			3.27e5						213558		1.04e7			
FUNCTION5 PFK			4.94e3						156844		2.78e5			
FUNCTION1 HXCDPE			1.04e2						455		3.18e3			0.000
FUNCTION1 HPCDPE			1.04e3						839		2.34e4			0.000
FUNCTION2 HPCDPE			1.74e2						809		5.15e3			0.000
FUNCTION3 OCDPE			7.10e1						470		3.19e3			0.000
FUNCTION4 NCDPE			8.52e2						865		2.05e4			0.000
FUNCTION5 DCDPE			7.78e1						412		2.74e3			0.000

WF26I 08400

**Quantify Totals Report MassLynx 4.1 SCN 714**

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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

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TF

35	Total-tetrafurans	303.9016	23.60	441.067	0.921	0.037		0.48	0.77	YES	3.2
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PP

36	Total-penta1	339.8597	27.71	728.858		0.084		1.24	1.55	YES	5.8
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PF

38	Total-hexafurans	373.8208	34.79	627.602	1.062	0.091		0.83	1.24	YES	8.6
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HF

4	123478-HxCDF	373.8208	35.46	241.457	1.101	0.033	0.026	1.83	1.24	YES	4.9
38	Total-hexafurans	373.8208	34.85	198.131	1.062	0.029		0.64	1.24	YES	2.5
38	Total-hexafurans	373.8208	34.79	627.602	1.062	0.091		0.83	1.24	YES	8.6
38	Total-hexafurans	373.8208	33.95	463.660	1.062	0.068		1.49	1.24	YES	8.2
38	Total-hexafurans	373.8208	33.97	383.099	1.062	0.056		0.20	1.24	YES	3.5

HPF

39	Total-heptafurans	407.7818	40.56	2858.143	1.231	0.529		1.43	1.05	YES	33.8
39	Total-heptafurans	407.7818	39.85	223.747	1.231	0.041		1.36	1.05	YES	6.4
8	1234678-HpCDF	407.7818	39.78	1101.581	1.238	0.180	0.158	0.81	1.05	YES	22.5

Furans,TF,PP,PF,HF,HPF,OF

35	Total-tetrafurans	303.9016	23.60	441.067	0.921	0.037		0.48	0.77	YES	3.2
4	123478-HxCDF	373.8208	35.46	241.457	1.101	0.033	0.026	1.83	1.24	YES	4.9
38	Total-hexafurans	373.8208	34.85	198.131	1.062	0.029		0.64	1.24	YES	2.5
38	Total-hexafurans	373.8208	34.79	627.602	1.062	0.091		0.83	1.24	YES	8.6
38	Total-hexafurans	373.8208	33.95	463.660	1.062	0.068		1.49	1.24	YES	8.2
39	Total-heptafurans	407.7818	40.56	2858.143	1.231	0.529		1.43	1.05	YES	33.8
39	Total-heptafurans	407.7818	39.85	223.747	1.231	0.041		1.36	1.05	YES	6.4
8	1234678-HpCDF	407.7818	39.78	1101.581	1.238	0.180	0.158	0.81	1.05	YES	22.5
10	OCDF	441.7428	47.88	2595.486	1.162	0.631	0.521	0.64	0.89	YES	18.0
36	Total-penta1	339.8597	27.71	728.858		0.084		1.24	1.55	YES	5.8
38	Total-hexafurans	373.8208	33.97	383.099	1.062	0.056		0.20	1.24	YES	3.5

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TD

ID	Name	Area	Height	Retention	Abundance	Abundance	Abundance	Abundance	Abundance	Abundance	Abundance	Abundance
41	Total-tetradoxins	319.8965	25.26	963.960	1.106	0.105	0.36	0.77	YES	5.2		
41	Total-tetradoxins	319.8965	25.06	4912.896	1.106	0.536	0.73	0.77	NO	38.0		

PD

42	Total-pentadoxins	355.8546	29.86	398.553	1.001	0.064	0.68	1.55	YES	4.1
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HD

43	Total-hexadoxins	389.8157	34.54	2277.998	0.937	0.406	1.20	1.24	NO	20.2
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HPD

16	1234678-HpCDD	423.7766	41.61	6486.971	1.029	1.352	1.352	1.15	1.05	NO	54.4
44	Total-heptadoxins	423.7766	40.32	8426.830	1.029	1.757	1.15	1.05	NO	88.7	

Dioxins,TD,PD,HD,HPD,OD

41	Total-tetradoxins	319.8965	25.26	963.960	1.106	0.105	0.36	0.77	YES	5.2	
41	Total-tetradoxins	319.8965	25.06	4912.896	1.106	0.536	0.73	0.77	NO	38.0	
42	Total-pentadoxins	355.8546	29.86	398.553	1.001	0.064	0.68	1.55	YES	4.1	
43	Total-hexadoxins	389.8157	34.54	2277.998	0.937	0.406	1.20	1.24	NO	20.2	
16	1234678-HpCDD	423.7766	41.61	6486.971	1.029	1.352	1.352	1.15	1.05	NO	54.4
44	Total-heptadoxins	423.7766	40.32	8426.830	1.029	1.757	1.15	1.05	NO	88.7	
17	OCDD	457.7377	47.60	48494.448	1.011	13.551	13.551	0.85	0.89	NO	372.5

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TotalTEQ,Furans,Dioxins

Table with 11 columns: ID, Name, Total, TEQ, Furans, Dioxins, TEQ, Furans, Dioxins, TEQ, Furans, Dioxins. Rows include Total-tetrafurans, 123478-HxCDF, Total-hexafurans, Total-heptafurans, 1234678-HpCDF, OCDF, Total-penta1, Total-tetradioxins, Total-pentadioxins, Total-hexadioxins, 1234678-HpCDD, Total-heptadioxins, and OCDD.

PFK1

Table with 11 columns: ID, Name, Total, TEQ, Furans, Dioxins, TEQ, Furans, Dioxins, TEQ, Furans, Dioxins. Rows include 48 FUNCTION1 PFK and 48 FUNCTION1 PFK.



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PFK2

49	FUNCTION2 PFK	366.9792	29.96	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	29.83	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	29.79	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	29.50	0.000	0.000	6.8
49	FUNCTION2 PFK	366.9792	29.41	0.000	0.000	9.9
49	FUNCTION2 PFK	366.9792	29.36	0.000	0.000	10.9
49	FUNCTION2 PFK	366.9792	29.06	0.000	0.000	20.5
49	FUNCTION2 PFK	366.9792	28.90	0.000	0.000	25.8
49	FUNCTION2 PFK	366.9792	28.84	0.000	0.000	27.7
49	FUNCTION2 PFK	366.9792	28.82	0.000	0.000	28.0
49	FUNCTION2 PFK	366.9792	28.70	0.000	0.000	31.7
49	FUNCTION2 PFK	366.9792	28.62	0.000	0.000	34.1
49	FUNCTION2 PFK	366.9792	28.59	0.000	0.000	35.7
49	FUNCTION2 PFK	366.9792	32.89	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	32.80	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	32.64	0.000	0.000	0.5
49	FUNCTION2 PFK	366.9792	32.27	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	32.23	0.000	0.000	1.8
49	FUNCTION2 PFK	366.9792	32.09	0.000	0.000	1.6
49	FUNCTION2 PFK	366.9792	31.88	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	31.73	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	31.33	0.000	0.000	1.5
49	FUNCTION2 PFK	366.9792	31.22	0.000	0.000	0.4
49	FUNCTION2 PFK	366.9792	31.14	0.000	0.000	0.7
49	FUNCTION2 PFK	366.9792	30.91	0.000	0.000	1.0
49	FUNCTION2 PFK	366.9792	30.65	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	30.52	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	30.44	0.000	0.000	1.9
49	FUNCTION2 PFK	366.9792	30.39	0.000	0.000	0.5
49	FUNCTION2 PFK	366.9792	33.07	0.000	0.000	0.8

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PFK3

50 FUNCTION3 PFK	380.9760	36.01	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	35.72	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	35.11	0.000	0.000	2.5
50 FUNCTION3 PFK	380.9760	35.06	0.000	0.000	1.4
50 FUNCTION3 PFK	380.9760	34.81	0.000	0.000	1.6
50 FUNCTION3 PFK	380.9760	34.51	0.000	0.000	4.2
50 FUNCTION3 PFK	380.9760	34.26	0.000	0.000	14.8
50 FUNCTION3 PFK	380.9760	34.21	0.000	0.000	15.6
50 FUNCTION3 PFK	380.9760	34.05	0.000	0.000	22.3
50 FUNCTION3 PFK	380.9760	33.95	0.000	0.000	25.8
50 FUNCTION3 PFK	380.9760	33.90	0.000	0.000	27.9
50 FUNCTION3 PFK	380.9760	33.65	0.000	0.000	38.1
50 FUNCTION3 PFK	380.9760	33.25	0.000	0.000	51.9
50 FUNCTION3 PFK	380.9760	33.17	0.000	0.000	55.8
50 FUNCTION3 PFK	380.9760	38.64	0.000	0.000	0.4
50 FUNCTION3 PFK	380.9760	38.51	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	38.48	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	38.31	0.000	0.000	0.6
50 FUNCTION3 PFK	380.9760	37.81	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	37.66	0.000	0.000	0.7
50 FUNCTION3 PFK	380.9760	37.27	0.000	0.000	1.2
50 FUNCTION3 PFK	380.9760	37.18	0.000	0.000	0.9
50 FUNCTION3 PFK	380.9760	37.12	0.000	0.000	0.5
50 FUNCTION3 PFK	380.9760	36.92	0.000	0.000	1.0
50 FUNCTION3 PFK	380.9760	36.84	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	36.64	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	36.48	0.000	0.000	0.8
50 FUNCTION3 PFK	380.9760	36.45	0.000	0.000	1.1
50 FUNCTION3 PFK	380.9760	36.33	0.000	0.000	1.5
50 FUNCTION3 PFK	380.9760	36.15	0.000	0.000	1.7

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PFK4

51	FUNCTION4 PFK	430.9728	41.01	0.000	1.2
51	FUNCTION4 PFK	430.9728	40.60	0.000	0.8
51	FUNCTION4 PFK	430.9728	40.43	0.000	1.2
51	FUNCTION4 PFK	430.9728	40.30	0.000	1.1
51	FUNCTION4 PFK	430.9728	40.19	0.000	0.9
51	FUNCTION4 PFK	430.9728	39.90	0.000	1.1
51	FUNCTION4 PFK	430.9728	39.84	0.000	1.5
51	FUNCTION4 PFK	430.9728	39.65	0.000	0.5
51	FUNCTION4 PFK	430.9728	39.61	0.000	0.5
51	FUNCTION4 PFK	430.9728	39.56	0.000	0.9
51	FUNCTION4 PFK	430.9728	39.44	0.000	0.4
51	FUNCTION4 PFK	430.9728	39.34	0.000	1.1
51	FUNCTION4 PFK	430.9728	39.28	0.000	1.0
51	FUNCTION4 PFK	430.9728	38.96	0.000	0.5
51	FUNCTION4 PFK	430.9728	38.89	0.000	0.6
51	FUNCTION4 PFK	430.9728	43.08	0.000	1.0
51	FUNCTION4 PFK	430.9728	43.04	0.000	1.0
51	FUNCTION4 PFK	430.9728	42.97	0.000	1.6
51	FUNCTION4 PFK	430.9728	42.92	0.000	1.8
51	FUNCTION4 PFK	430.9728	42.83	0.000	1.4
51	FUNCTION4 PFK	430.9728	42.75	0.000	1.4
51	FUNCTION4 PFK	430.9728	42.72	0.000	0.9
51	FUNCTION4 PFK	430.9728	42.68	0.000	0.8
51	FUNCTION4 PFK	430.9728	42.54	0.000	1.1
51	FUNCTION4 PFK	430.9728	42.25	0.000	1.3
51	FUNCTION4 PFK	430.9728	42.11	0.000	0.8
51	FUNCTION4 PFK	430.9728	42.03	0.000	0.6
51	FUNCTION4 PFK	430.9728	41.88	0.000	1.3
51	FUNCTION4 PFK	430.9728	41.47	0.000	0.6
51	FUNCTION4 PFK	430.9728	41.43	0.000	0.8
51	FUNCTION4 PFK	430.9728	41.38	0.000	1.1
51	FUNCTION4 PFK	430.9728	44.92	0.000	1.3
51	FUNCTION4 PFK	430.9728	44.85	0.000	1.0
51	FUNCTION4 PFK	430.9728	44.48	0.000	1.0
51	FUNCTION4 PFK	430.9728	44.45	0.000	1.1
51	FUNCTION4 PFK	430.9728	44.34	0.000	0.9
51	FUNCTION4 PFK	430.9728	44.25	0.000	1.0
51	FUNCTION4 PFK	430.9728	44.17	0.000	2.2
51	FUNCTION4 PFK	430.9728	44.12	0.000	1.2
51	FUNCTION4 PFK	430.9728	44.07	0.000	1.6
51	FUNCTION4 PFK	430.9728	43.90	0.000	1.0
51	FUNCTION4 PFK	430.9728	43.74	0.000	1.3
51	FUNCTION4 PFK	430.9728	43.71	0.000	1.0
51	FUNCTION4 PFK	430.9728	43.45	0.000	1.1
51	FUNCTION4 PFK	430.9728	43.39	0.000	1.3
51	FUNCTION4 PFK	430.9728	43.31	0.000	1.2

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PFK5

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
52	FUNCTION5 PFK	480.9696	46.84	0.000							1.8

ETHERS1

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
53	FUNCTION1 HXCD...	375.8364	23.27	0.000		0.000					7.0

ETHERS2

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
54	FUNCTION1 HPCD...	409.7974	27.53	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	27.33	0.000		0.000					4.2
54	FUNCTION1 HPCD...	409.7974	26.57	0.000		0.000					4.0
54	FUNCTION1 HPCD...	409.7974	25.93	0.000		0.000					2.6
54	FUNCTION1 HPCD...	409.7974	25.66	0.000		0.000					1.5
54	FUNCTION1 HPCD...	409.7974	25.39	0.000		0.000					2.0
54	FUNCTION1 HPCD...	409.7974	24.48	0.000		0.000					1.8
54	FUNCTION1 HPCD...	409.7974	24.09	0.000		0.000					3.8
54	FUNCTION1 HPCD...	409.7974	23.78	0.000		0.000					1.1
54	FUNCTION1 HPCD...	409.7974	21.88	0.000		0.000					2.4
54	FUNCTION1 HPCD...	409.7974	21.73	0.000		0.000					2.6

ETHERS3

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
55	FUNCTION2 HPCD...	409.7974	30.21	0.000		0.000					3.1
55	FUNCTION2 HPCD...	409.7974	28.67	0.000		0.000					3.2

ETHERS4

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
56	FUNCTION3 OCDPE	445.7555	37.27	0.000		0.000					6.8

ETHERS5

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
57	FUNCTION4 NCDPE	479.7165	42.20	0.000		0.000					3.0
57	FUNCTION4 NCDPE	479.7165	39.81	0.000		0.000					3.1
57	FUNCTION4 NCDPE	479.7165	39.38	0.000		0.000					8.1
57	FUNCTION4 NCDPE	479.7165	39.33	0.000		0.000					6.5
57	FUNCTION4 NCDPE	479.7165	39.16	0.000		0.000					3.0

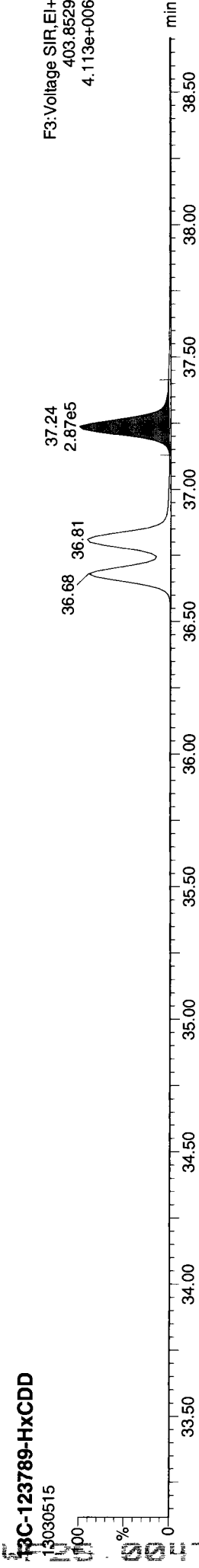
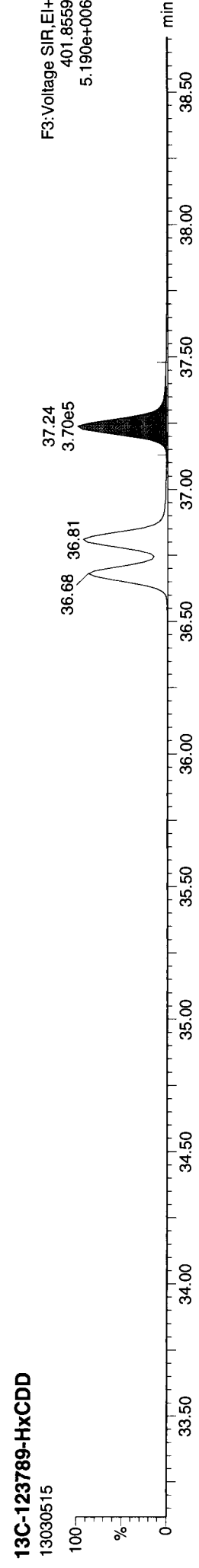
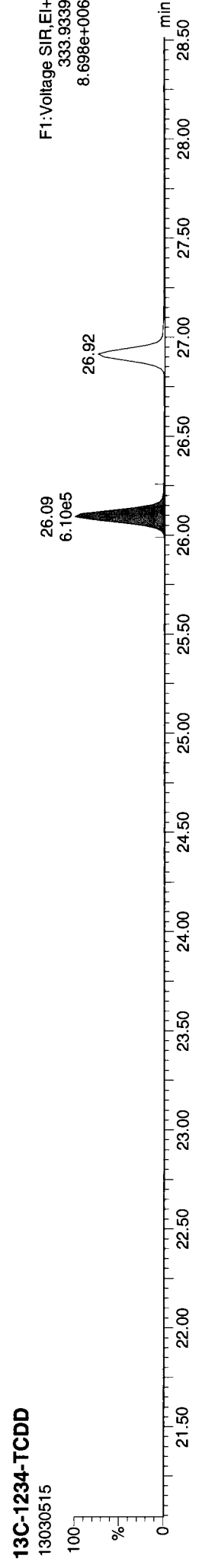
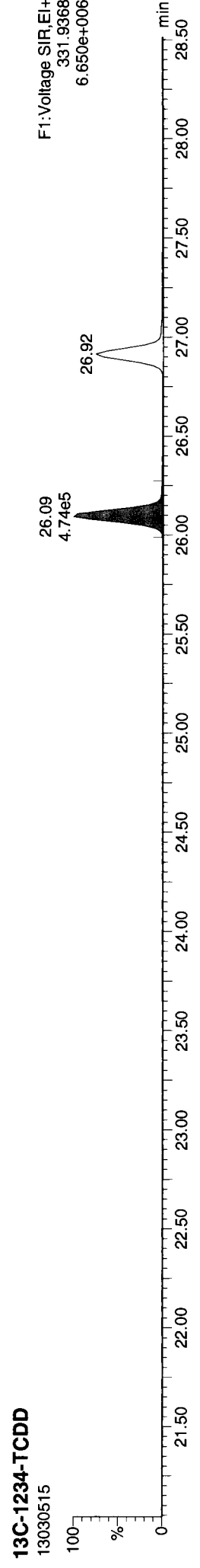
ETHERS6

ID	Name	Area	RT	Abs Resp	RFI	Conc	EMPC	IRatio	IRatio	IRatio	SN
58	FUNCTION5 DCDPE	513.6775	48.06	0.000		0.000					6.6

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Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

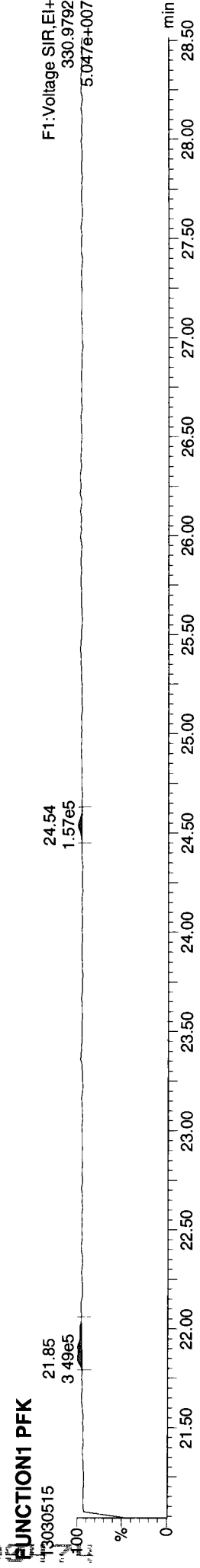
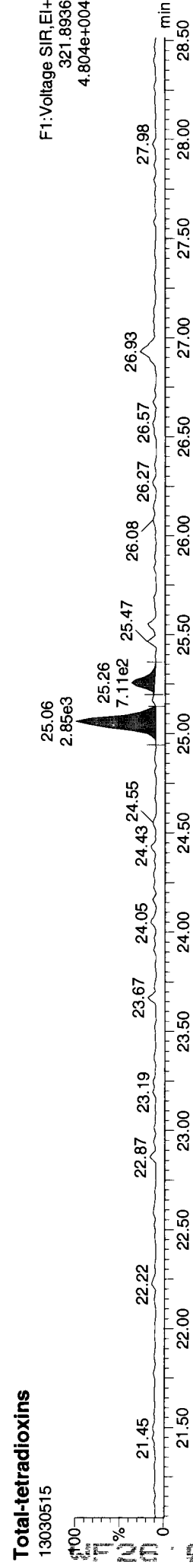
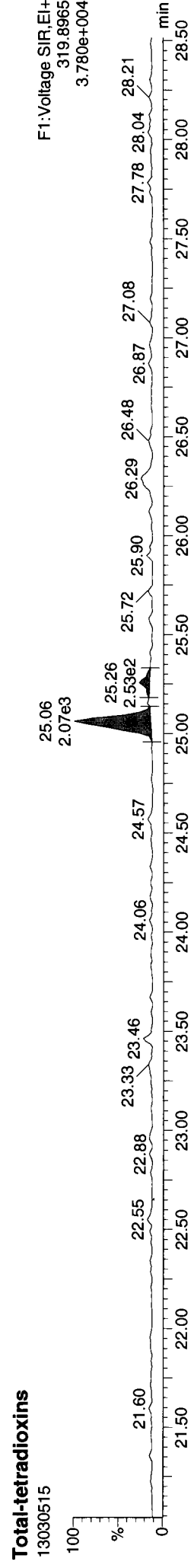
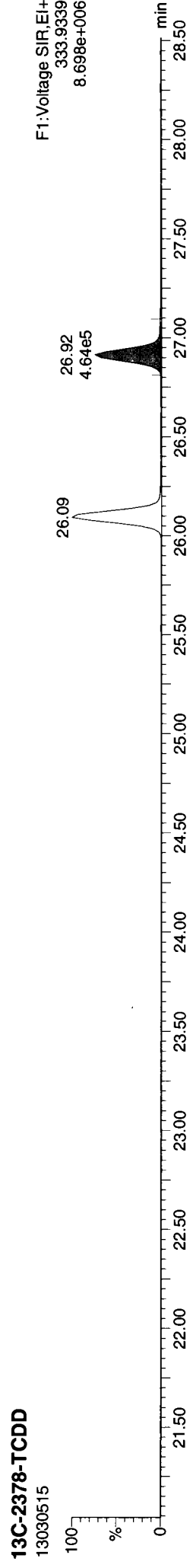
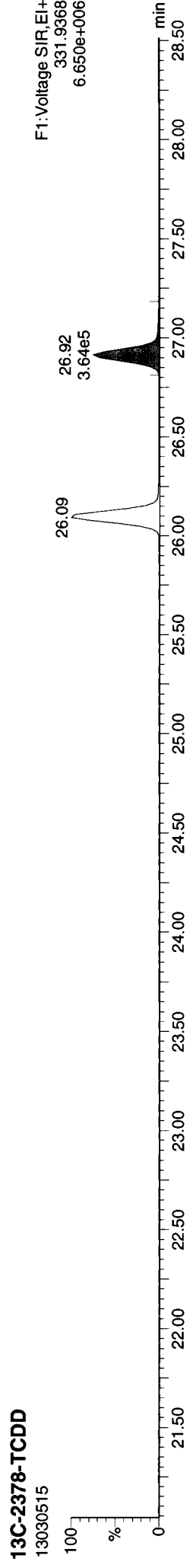
Method: P:\DIOXIN8290.PROMethDB\Dioxin\130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211\CAL.cdb 12 Feb 2013 09:29:24

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

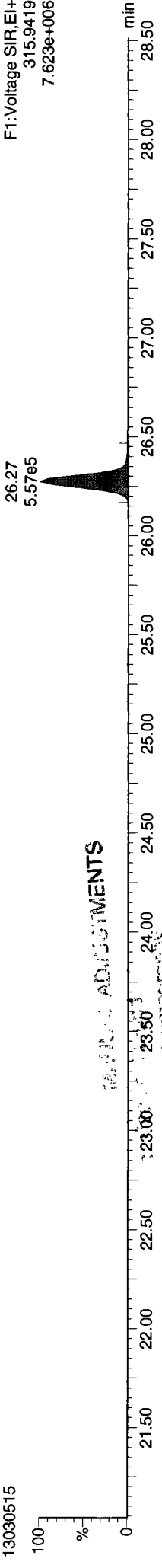
**ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk**



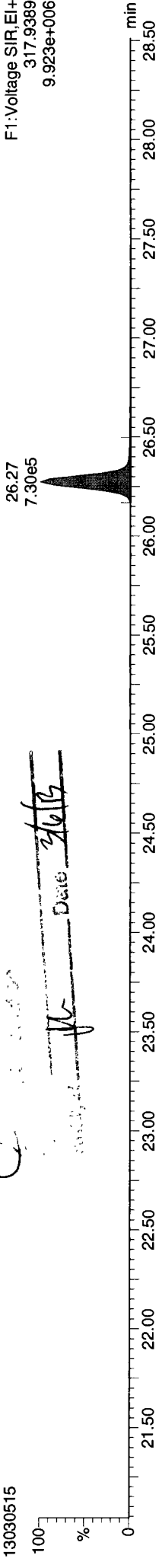
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.cfd  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF261, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

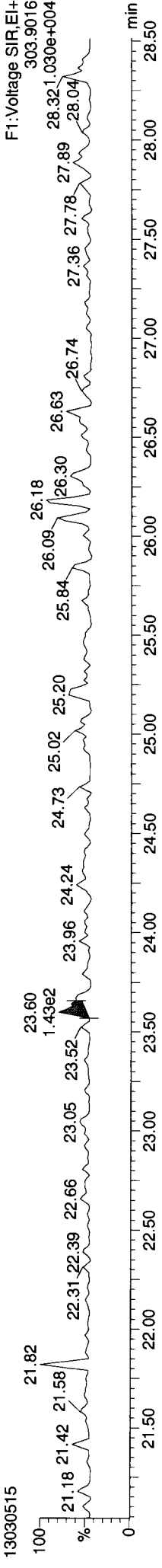
13C-2378-TCDF



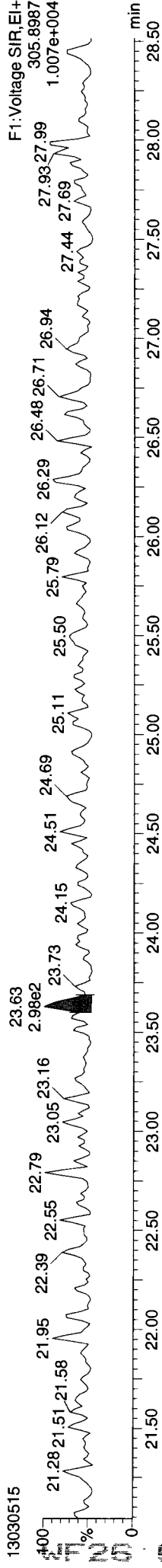
13C-2378-TCDF



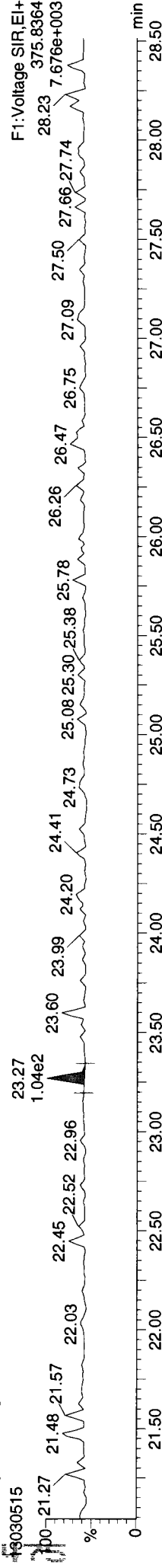
Total-tetrafurans



Total-tetrafurans

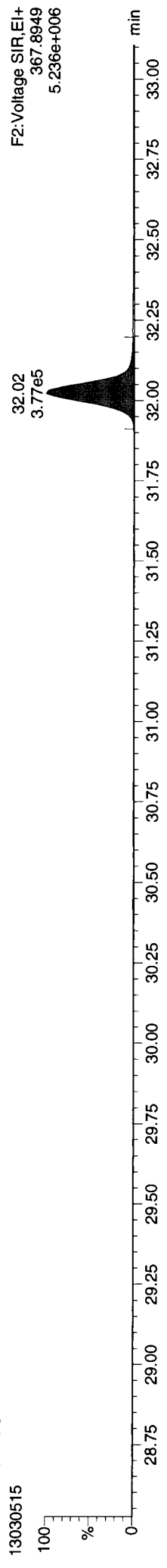


FUNCTION1 HXCDPE

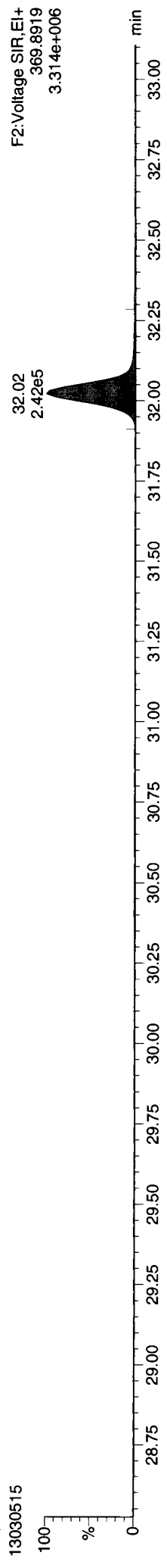


ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

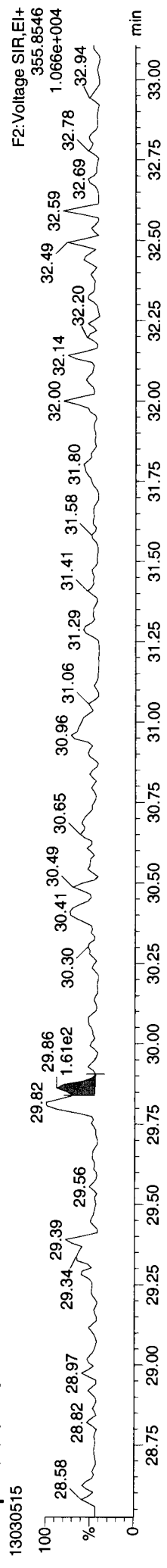
13C-12378-PeCDD  
13030515



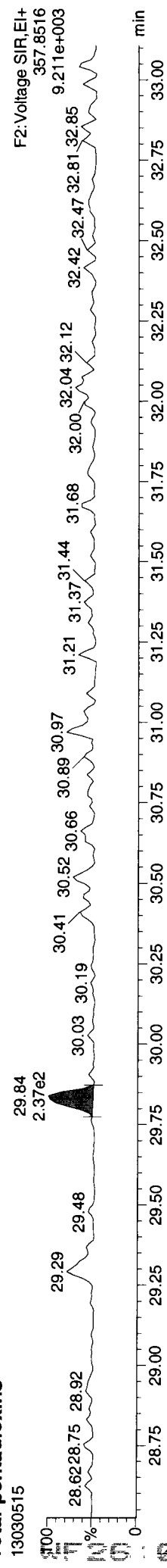
13C-12378-PeCDD  
13030515



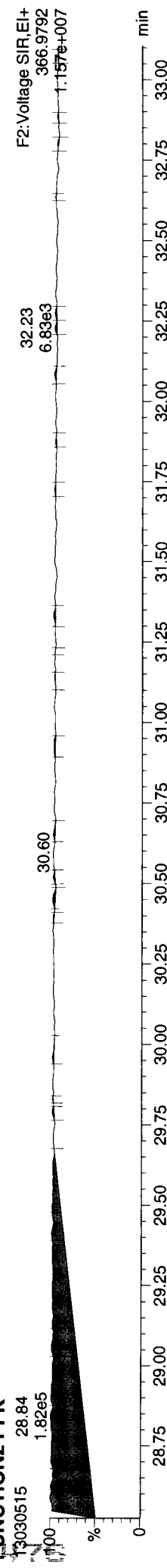
Total-pentadioxins  
13030515



Total-pentadioxins  
13030515



FUNCTION2 PFK  
13030515

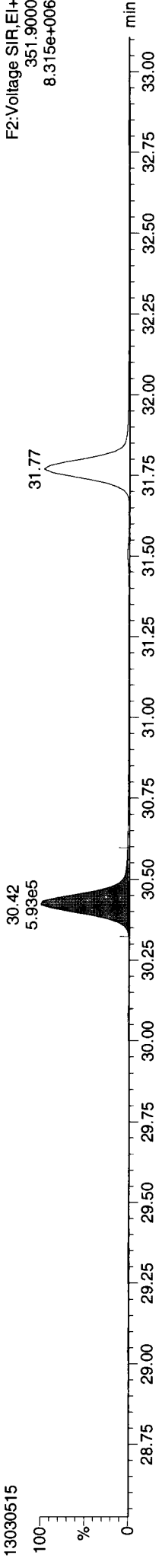




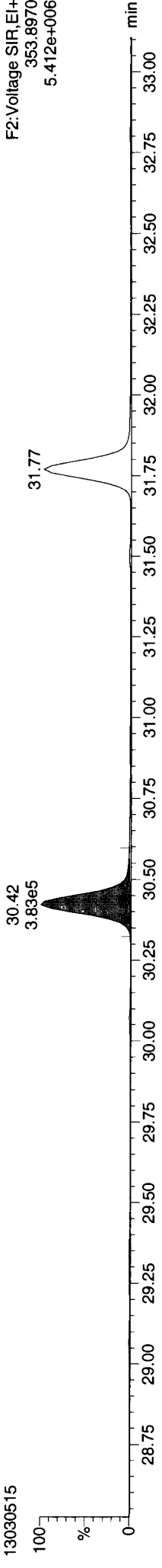
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

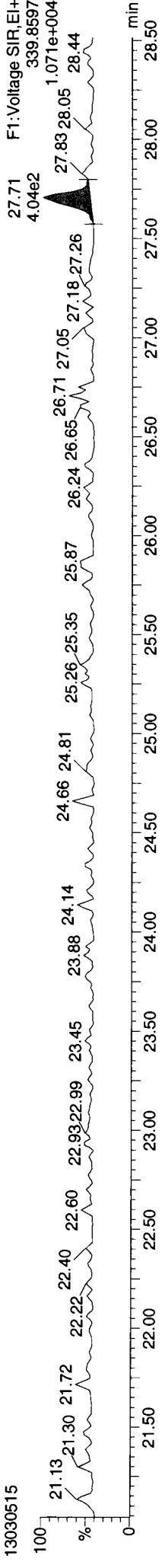
13C-12378-PeCDF



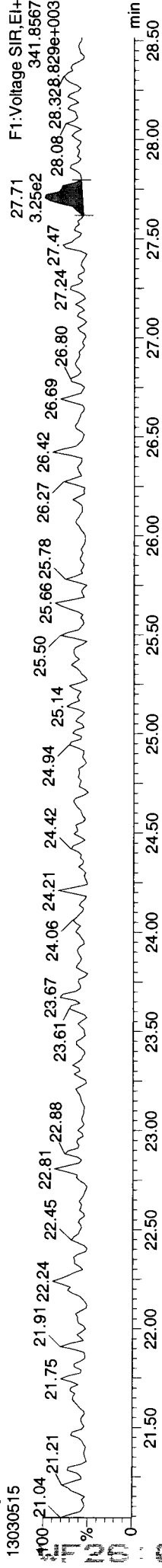
13C-12378-PeCDF



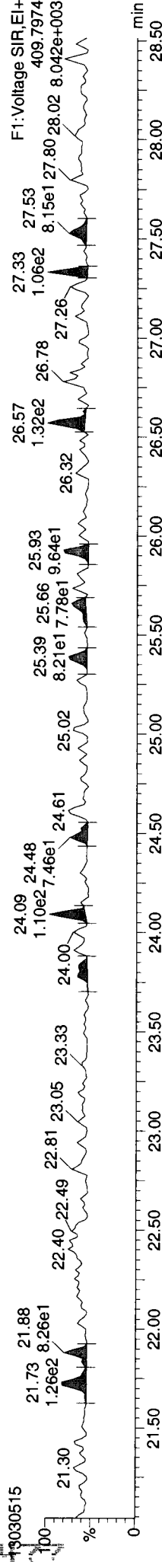
Total-penta1



Total-penta1

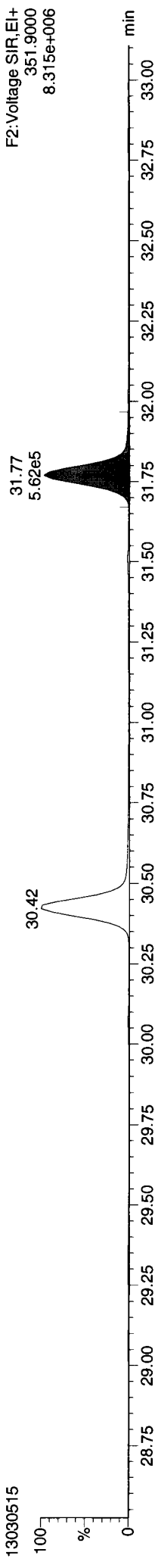


FUNCTION1 HPCDPE

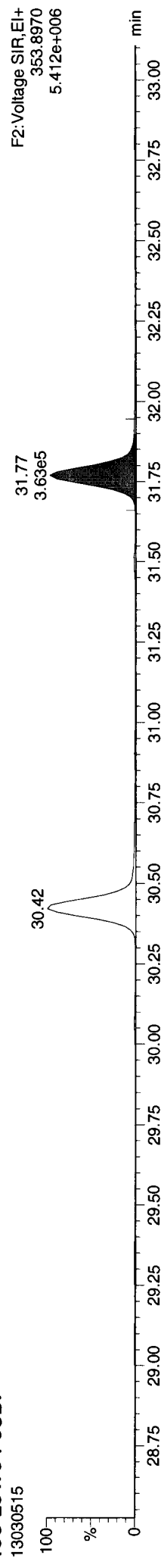


ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

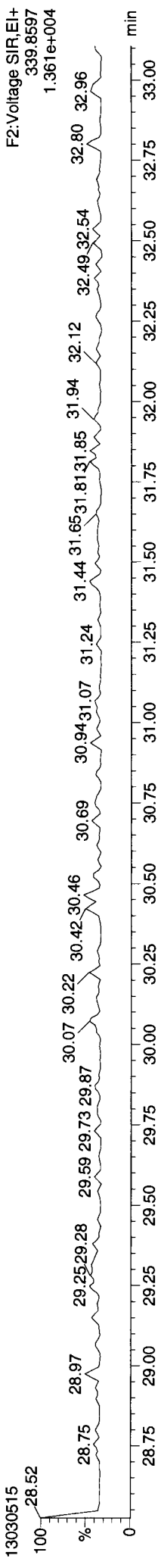
13C-23478-PeCDF



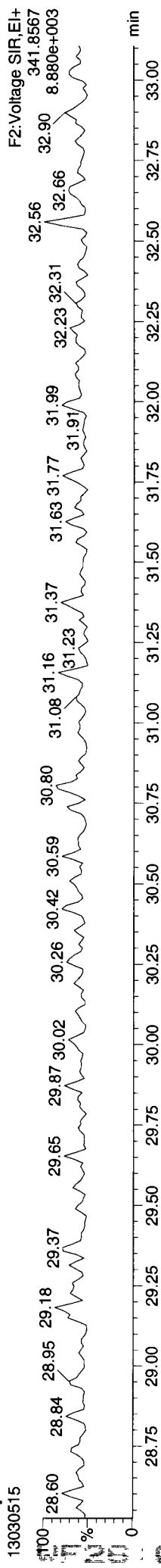
13C-23478-PeCDF



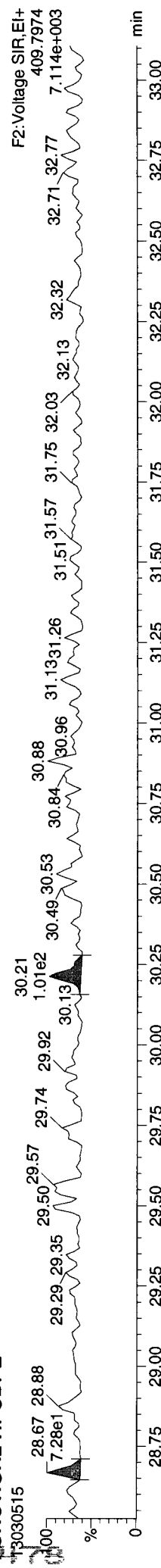
Total-pentafurans



Total-pentafurans



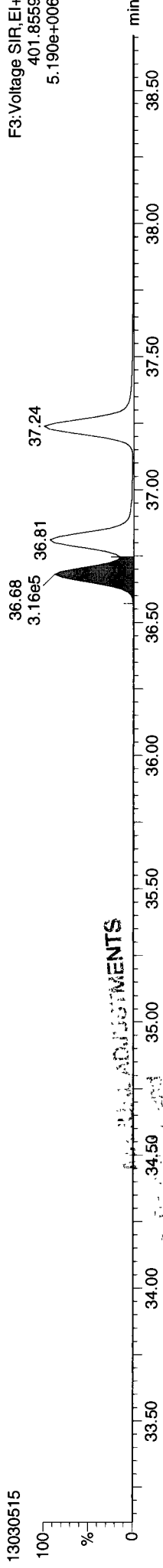
FUNCTION2 HPCDPE



Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

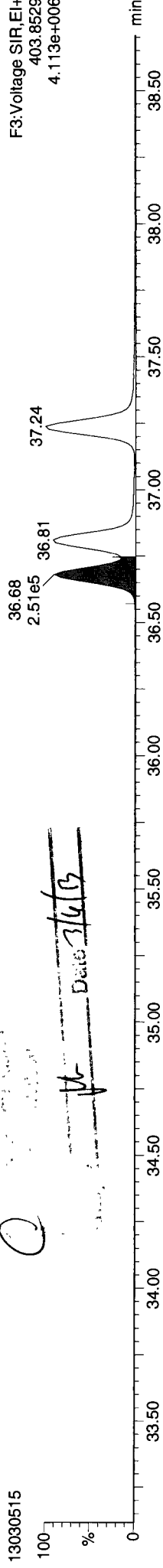
ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

13C-123478-HxCDD



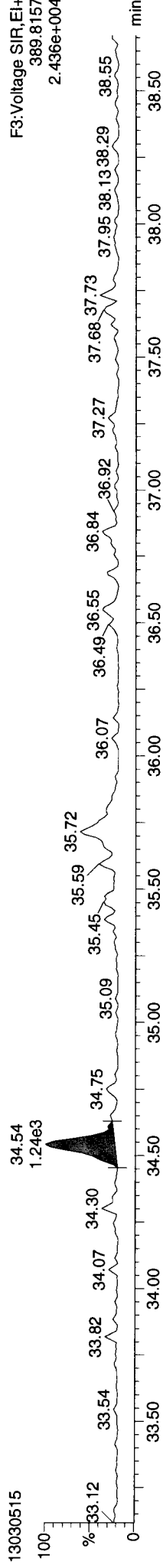
F3: Voltage SIR, EI+  
401.8559  
5.190e+006

13C-123478-HxCDD



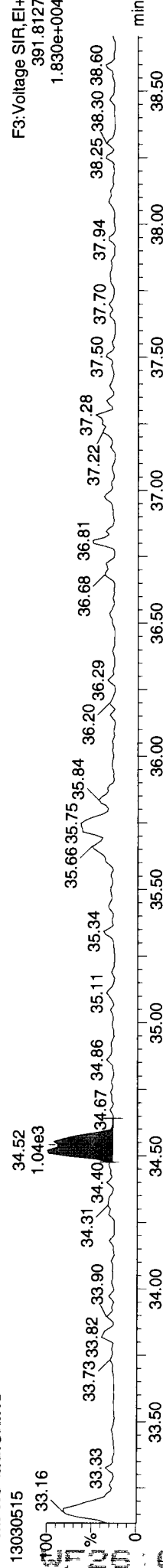
F3: Voltage SIR, EI+  
403.8529  
4.113e+006

Total-hexadioxins



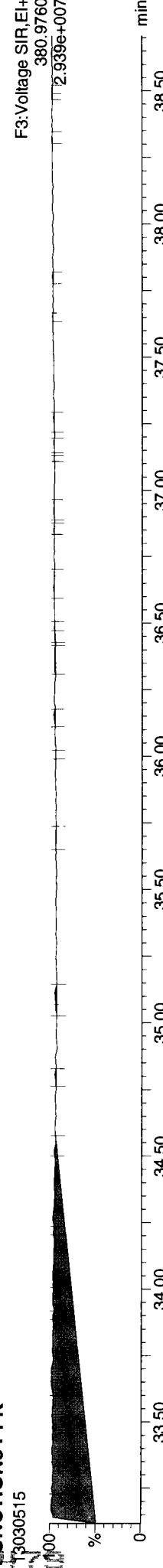
F3: Voltage SIR, EI+  
389.8157  
2.436e+004

Total-hexadioxins



F3: Voltage SIR, EI+  
391.8127  
1.830e+004

FUNCTION3 PFK

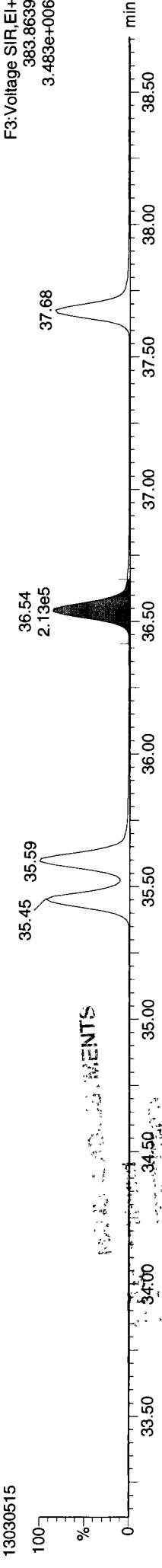


F3: Voltage SIR, EI+  
380.9760  
2.939e+007

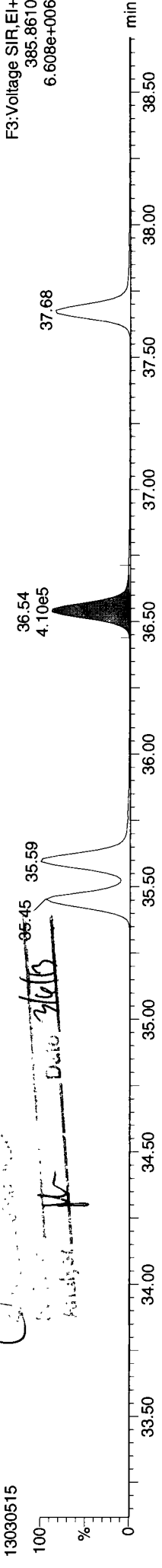
Quantify Sample Report  
MascLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305\DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

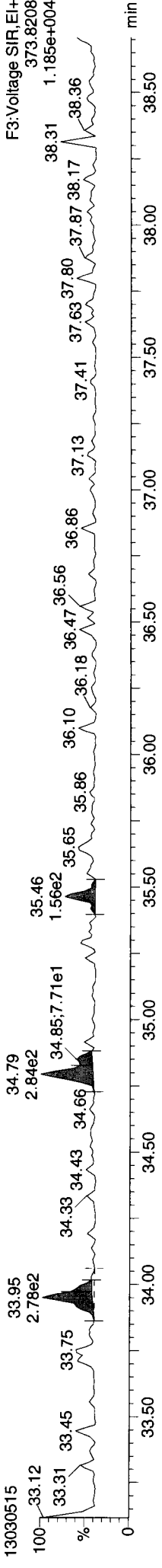
13C-234678-HxCDF



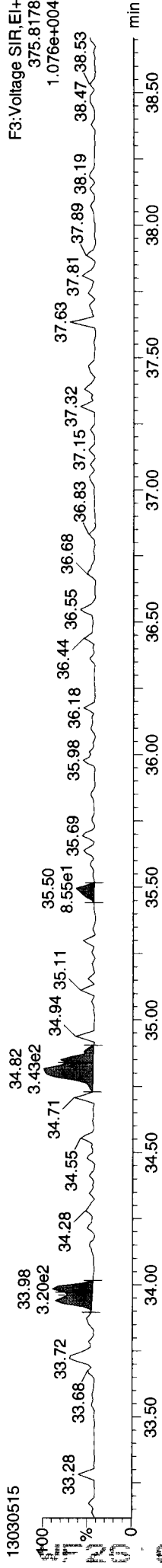
13C-234678-HxCDF



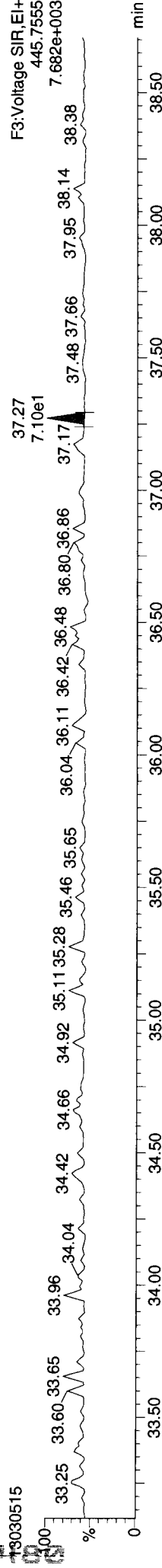
Total-hexafurans



Total-hexafurans



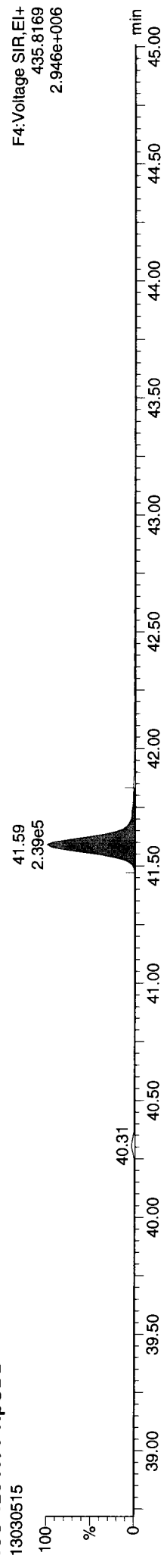
FUNCTION3 OCDPE



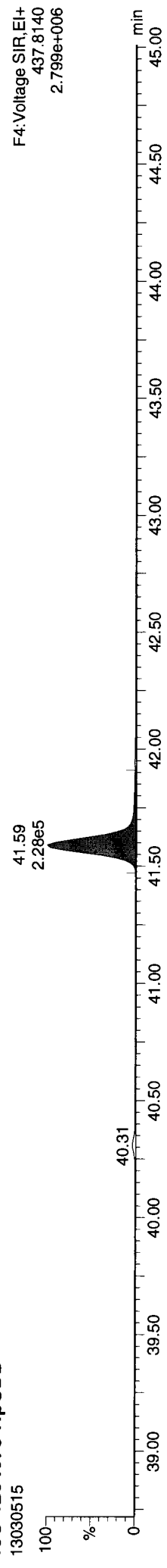
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

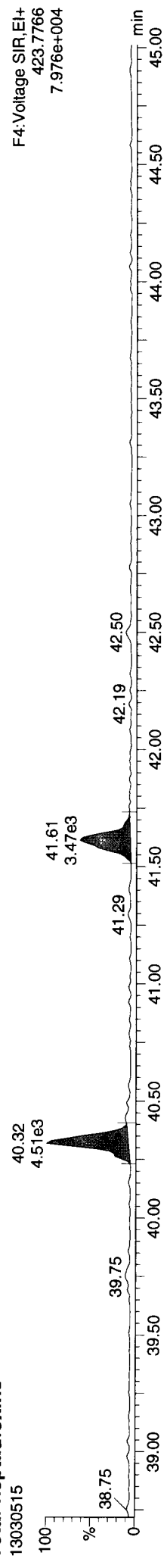
13C-1234678-HpCDD  
13030515



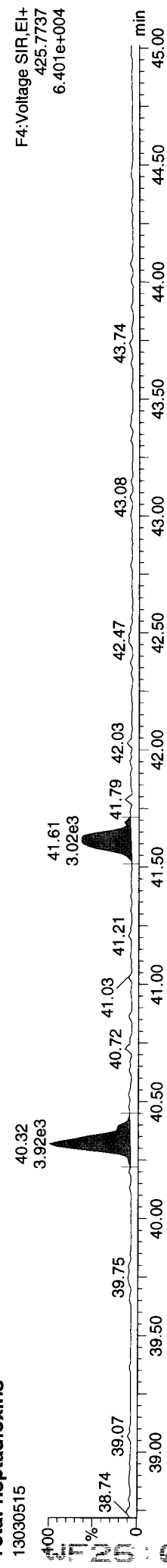
13C-1234678-HpCDD  
13030515



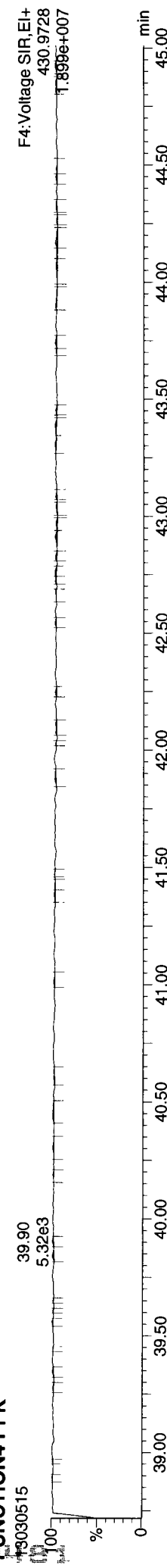
Total-heptadioxins  
13030515



Total-heptadioxins  
13030515



FUNCTION4 PFK  
13030515



F4: Voltage SIR, EI+  
435.8169  
2.946e+006

F4: Voltage SIR, EI+  
437.8140  
2.799e+006

F4: Voltage SIR, EI+  
423.7766  
7.976e+004

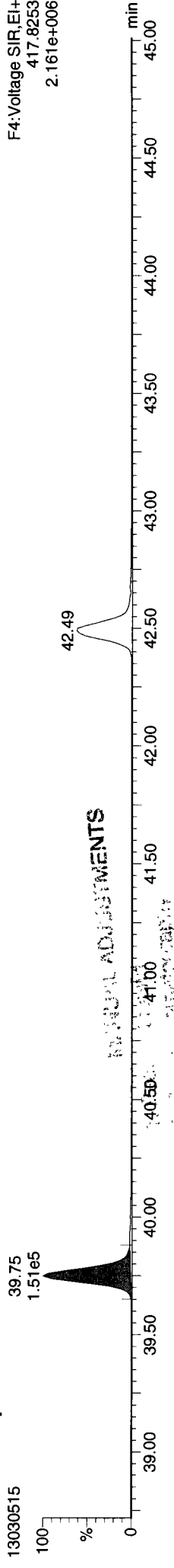
F4: Voltage SIR, EI+  
425.7737  
6.401e+004

F4: Voltage SIR, EI+  
430.9728  
1.898e+007

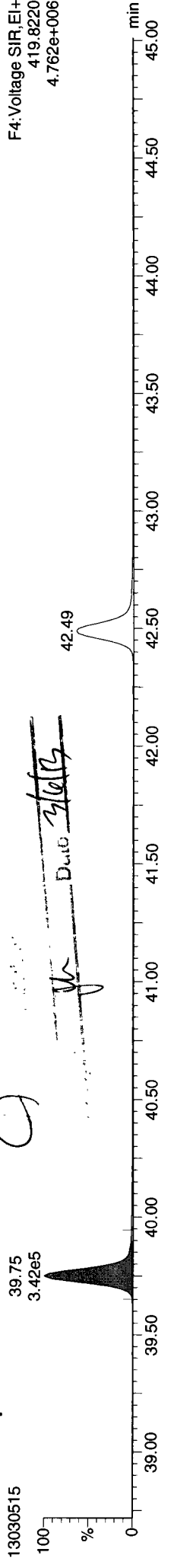
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

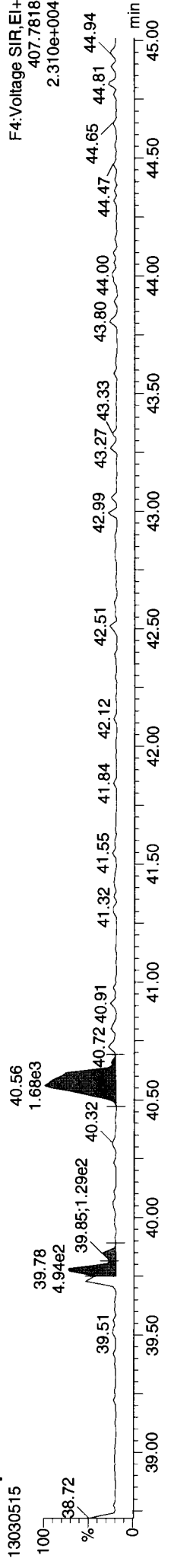
13C-1234678-HpCDF



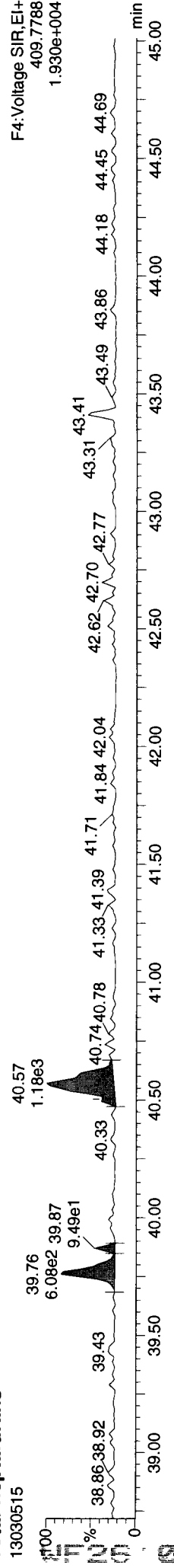
13C-1234678-HpCDF



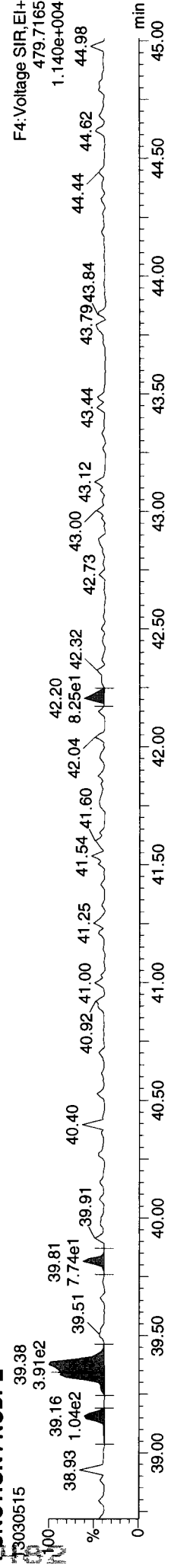
Total-heptafurans



Total-heptafurans



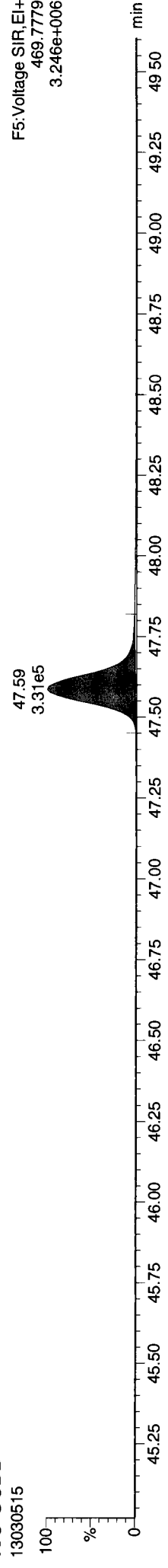
FUNCTION4 NCDPE



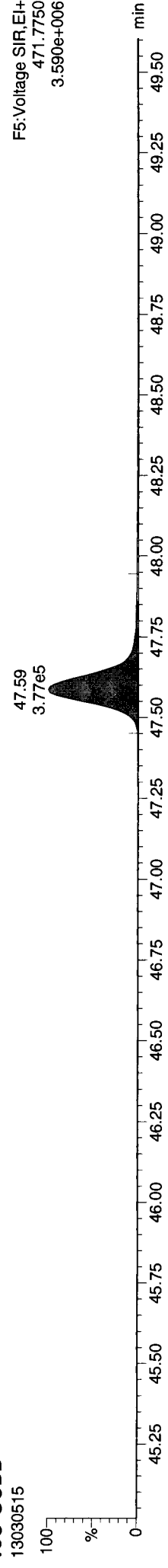
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

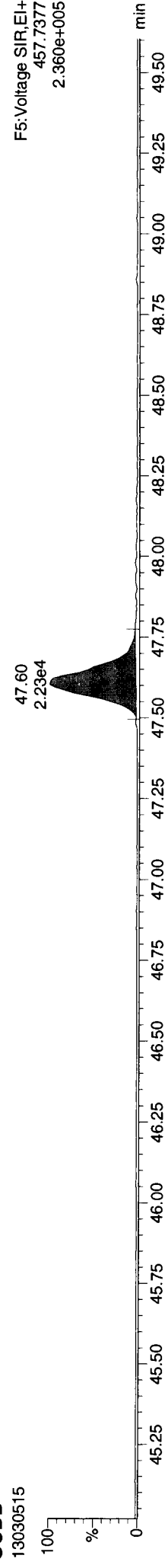
13C-OCDD  
13030515



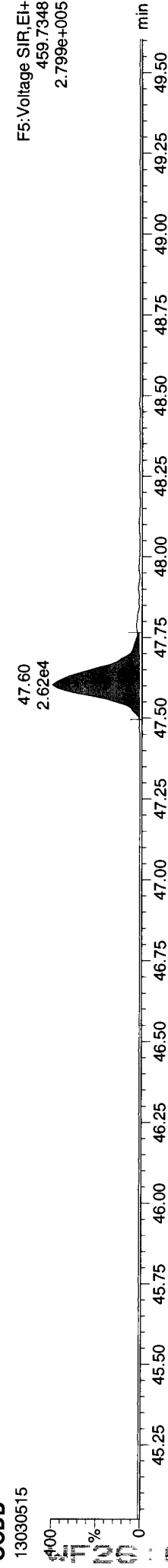
13C-OCDD  
13030515



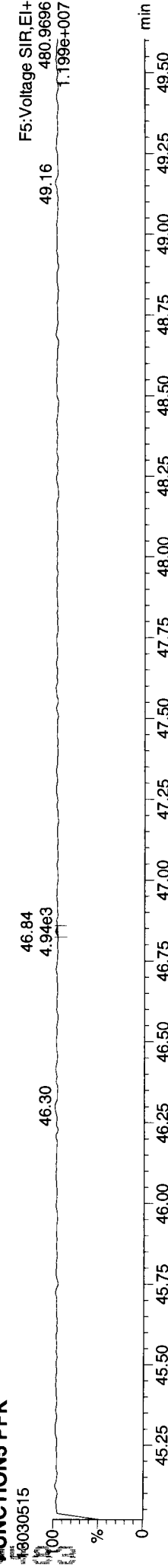
OCDD  
13030515



OCDD  
13030515



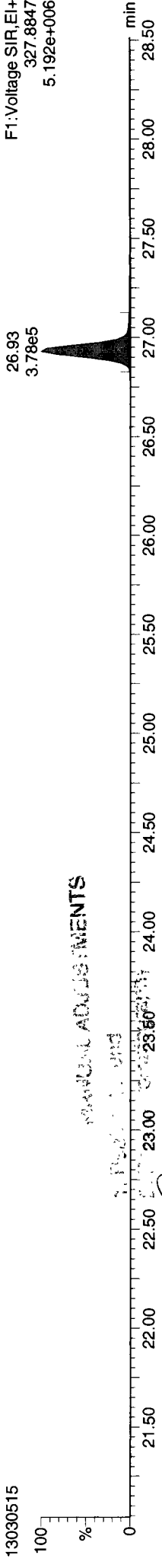
FUNCTION5 PFK  
13030515



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:12 Pacific Standard Time

ID: WF26I, Name: 13030515, Date: 06-Mar-2013, Time: 00:06:18, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

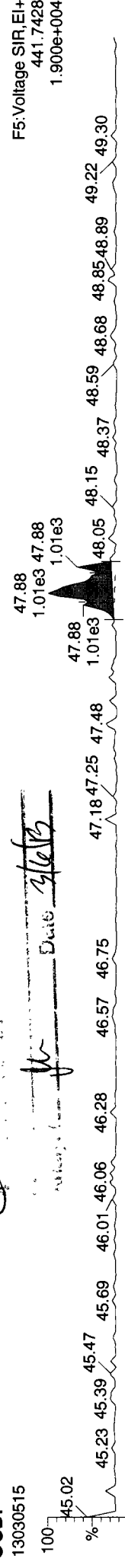


FUNCTIONAL ADJUSTMENTS

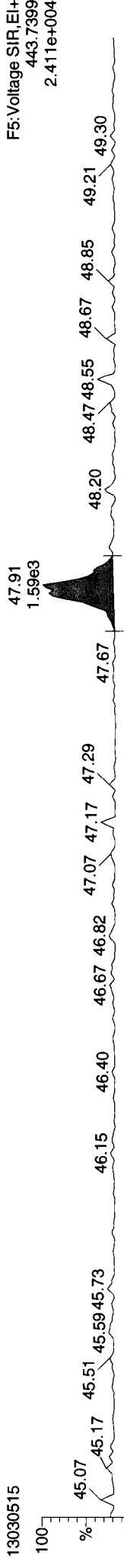
*Q*

*for Date Steps*

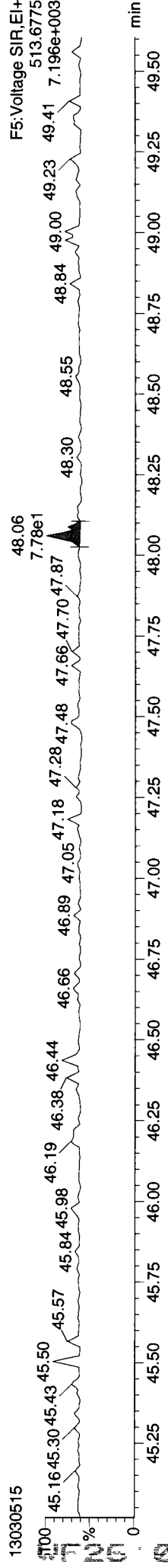
OCDF



OCDF



FUNCTION5 DCDPE



13030515



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:29 Pacific Standard Time

pk 3/6/13

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

2378-TCDF	26.287	1.001	1.33e3	1.88e3	0.921	0.705	0.770	10.3	1686	3178	1.73e4	2.24e4	NO	0.375
12378-PeCDF	30.442	1.001	9.80e2	5.18e2	0.912	1.893	1.550	5.0	3129	3591	1.57e4	1.07e4	YES	0.198
23478-PeCDF	31.802	1.001	9.85e2	6.85e2	0.943	1.437	1.550	5.5	3129	3591	1.74e4	1.23e4	NO	0.228
123478-HxCDF	35.474	1.001	1.21e3	1.10e3	1.101	1.105	1.240	18.5	1108	1605	2.05e4	2.12e4	NO	0.360
234678-HxCDF	36.537	1.000	1.53e3	1.23e3	1.073	1.250	1.240	12.3	1108	1605	1.37e4	1.41e4	NO	0.452
123678-HxCDF	35.616	1.001	1.32e3	4.44e2	1.056	2.982	1.240	15.8	1108	1605	1.74e4	8.44e3	YES	0.148
123789-HxCDF	37.666	1.000	2.88e2	4.11e2	1.017	0.701	1.240	5.2	1108	1605	5.73e3	6.31e3	YES	0.090
1234678-HpCDF	39.770	1.001	1.30e4	1.25e4	1.238	1.037	1.050	198.8	959	1118	1.91e5	1.75e5	NO	4.425
1234789-HpCDF	42.510	1.001	7.38e2	7.45e2	1.224	0.991	1.050	8.7	959	1118	8.31e3	1.00e4	NO	0.354
OCDF	47.881	1.006	1.64e4	1.77e4	1.162	0.930	0.890	152.5	1003	1002	1.53e5	1.68e5	NO	10.126
2378-TCDD	26.944	1.001	6.53e2	1.24e3	1.106	0.528	0.770	9.5	990	987	9.37e3	1.49e4	YES	0.206
12378-PeCDD	32.010	1.000	5.34e2	7.25e2	1.001	0.735	1.550	6.1	1677	1038	1.03e4	1.08e4	YES	0.170
123478-HxCDD	36.701	1.001	8.77e2	7.54e2	0.978	1.162	1.240	6.7	2109	1713	1.41e4	1.12e4	NO	0.340
123678-HxCDD	36.822	1.000	2.92e3	2.18e3	0.929	1.336	1.240	22.1	2109	1713	4.65e4	3.44e4	NO	1.016
123789-HxCDD	37.260	1.012	1.70e3	1.46e3	0.904	1.166	1.240	14.3	2109	1713	3.01e4	2.39e4	NO	0.678
1234678-HpCDD	41.601	1.000	5.13e4	4.91e4	1.029	1.046	1.050	406.1	1674	2035	6.80e5	6.14e5	NO	24.427
OCDD	47.611	1.000	2.62e5	3.02e5	1.011	0.868	0.890	1888.1	1383	1574	2.61e6	2.97e6	NO	192.755
13C-2378-TCDF	26.272	1.007	4.09e5	5.20e5	1.522	0.785	0.770	2572.1	2206	1723	5.67e6	7.22e6	NO	66.130
13C-12378-PeCDF	30.420	1.166	5.02e5	3.25e5	1.185	1.547	1.550	1778.1	4030	3292	7.17e6	4.75e6	NO	74.474
13C-23478-PeCDF	31.769	1.218	4.73e5	3.04e5	1.136	1.555	1.550	1712.8	4030	3292	6.90e6	4.39e6	NO	72.946
13C-123478-HxCDF	35.452	0.952	1.98e5	3.85e5	1.284	0.515	0.510	974.2	2947	4160	2.87e6	5.51e6	NO	74.580
13C-123678-HxCDF	35.594	0.956	2.16e5	4.21e5	1.383	0.512	0.510	1012.5	2947	4160	2.98e6	5.75e6	NO	75.725
13C-234678-HxCDF	36.537	0.981	1.92e5	3.77e5	1.283	0.508	0.510	904.6	2947	4160	2.67e6	5.24e6	NO	72.875
13C-123789-HxCDF	37.677	1.012	1.92e5	3.79e5	1.099	0.506	0.510	957.1	2947	4160	2.82e6	5.36e6	NO	85.386
13C-1234678-HpCDF	39.748	1.067	1.46e5	3.20e5	1.070	0.455	0.440	823.7	2445	2879	2.01e6	4.52e6	NO	71.606
13C-1234789-HpCDF	42.488	1.141	1.05e5	2.38e5	0.774	0.442	0.440	532.9	2445	2879	1.30e6	2.92e6	NO	72.855
13C-1234-TCDD	26.093	0.000	4.14e5	5.23e5	1.000	0.790	0.770	1585.2	3792	1992	6.01e6	7.59e6	NO	100.000
13C-2378-TCDD	26.915	1.031	2.87e5	3.71e5	0.943	0.774	0.770	1055.9	3792	1992	4.00e6	5.13e6	NO	74.416
13C-12378-PeCDD	32.021	1.227	3.13e5	2.04e5	0.715	1.533	1.550	1803.8	2491	2132	4.49e6	2.96e6	NO	77.115
13C-123478-HxCDD	36.679	0.985	2.74e5	2.17e5	1.032	1.265	1.240	1378.1	2924	3006	4.03e6	3.17e6	NO	78.232
13C-123678-HxCDD	36.811	0.989	2.95e5	2.45e5	1.076	1.207	1.240	1429.7	2924	3006	4.18e6	3.43e6	NO	82.561
13C-1234678-HpCDD	41.590	1.117	2.02e5	1.98e5	0.838	1.020	1.050	1207.0	2149	1667	2.59e6	2.48e6	NO	78.395
13C-OCDD	47.594	1.278	2.69e5	3.10e5	0.675	0.869	0.890	1777.4	1468	2097	2.61e6	2.92e6	NO	141.089

Quantify Sample Summary Report MassLynx 4.1 SCN 714

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13C-123789-HxCDD	37.238	0.000	3.35e5	2.73e5	1.000	1.227	1.240	1657.8	2924	3006	4.85e6	3.92e6	NO	100.000
Total-tetrafurans			2.32e4		0.921				1686		3.23e5			6.396
Total-penta1			1.35e4						1032		1.65e5			3.062
Total-pentafurans			1.21e4		0.927				3129		1.71e5			2.451
Total-hexafurans			2.61e4		1.062				1108		3.79e5			7.472
Total-heptafurans			3.65e4		1.231				959		5.09e5			13.694
Total-Furans			1.28e5		1.065				1686		1.70e6			43.266
Total-tetradioxins			9.14e3		1.106				990		1.22e5			3.056
Total-pentadioxins			1.19e4		1.001				1677		1.66e5			3.647
Total-hexadioxins			2.81e4		0.937				2109		4.77e5			10.348
Total-heptadioxins			1.22e5		1.029				1674		1.62e6			58.108
Total-Dioxins			4.34e5		0.994				990		5.01e6			268.007
Total-TEQ			5.62e5						990		6.71e6			311.273
37CL-2378-TCDD	26.930	1.032	3.08e5		1.051			2548.3	1722		4.39e6			31.244
FUNCTION1 PFK			0.00e0						291167		0.00e0			0.000
FUNCTION2 PFK			2.71e6						141172		1.56e7			0.000
FUNCTION3 PFK			4.41e5						252773		1.07e7			0.000
FUNCTION4 PFK			5.59e6						207132		3.81e7			0.000
FUNCTION5 PFK			0.00e0						159491		0.00e0			0.000
FUNCTION1 HXCDPE			1.55e3						548		2.08e4			0.000
FUNCTION1 HPCDPE			1.30e3						960		2.67e4			0.000
FUNCTION2 HPCDPE			2.59e2						798		5.80e3			0.000
FUNCTION3 OCDPE			9.86e1						588		2.28e3			0.000
FUNCTION4 NCDPE			2.51e4						755		3.70e5			0.000
FUNCTION5 DCDPE			0.00e0						369		0.00e0			0.000

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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
 Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

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TF

Sample	Compound	Area	RT	Concn	Stdev	Ratio	EMPC	IF	IC	DF	DF
35	Total-tetrafurans	303.9016	24.94	3286.164	0.921	0.384		0.77	0.77	NO	9.4
35	Total-tetrafurans	303.9016	24.51	2018.174	0.921	0.236		0.51	0.77	YES	6.9
35	Total-tetrafurans	303.9016	24.37	1347.780	0.921	0.157		0.61	0.77	YES	3.5
35	Total-tetrafurans	303.9016	24.29	3423.382	0.921	0.400		0.94	0.77	YES	15.2
35	Total-tetrafurans	303.9016	24.14	1828.945	0.921	0.214		1.64	0.77	YES	9.7
35	Total-tetrafurans	303.9016	24.03	2132.800	0.921	0.249		0.38	0.77	YES	5.4
35	Total-tetrafurans	303.9016	23.82	3256.048	0.921	0.380		0.91	0.77	YES	11.3
35	Total-tetrafurans	303.9016	23.63	13255.314	0.921	1.549		0.78	0.77	NO	44.5
35	Total-tetrafurans	303.9016	23.05	1336.779	0.921	0.156		0.98	0.77	YES	5.7
35	Total-tetrafurans	303.9016	22.78	1603.910	0.921	0.187		0.54	0.77	YES	5.7
35	Total-tetrafurans	303.9016	26.50	3532.765	0.921	0.413		0.83	0.77	NO	12.3
35	Total-tetrafurans	303.9016	26.42	1728.145	0.921	0.202		0.57	0.77	YES	5.4
1	2378-TCDF	303.9016	26.29	3212.402	0.921	0.375	0.375	0.71	0.77	NO	10.3
35	Total-tetrafurans	303.9016	26.09	1544.218	0.921	0.180		0.94	0.77	YES	6.6
35	Total-tetrafurans	303.9016	26.03	1126.789	0.921	0.132		0.48	0.77	YES	4.6
35	Total-tetrafurans	303.9016	25.60	1517.488	0.921	0.177		0.40	0.77	YES	4.3
35	Total-tetrafurans	303.9016	25.39	2780.834	0.921	0.325		0.92	0.77	YES	11.0
35	Total-tetrafurans	303.9016	25.20	4516.936	0.921	0.528		0.72	0.77	NO	16.1
35	Total-tetrafurans	303.9016	25.05	1288.305	0.921	0.151		0.33	0.77	YES	3.9

PP

Sample	Compound	Area	RT	Concn	Stdev	Ratio	EMPC	IF	IC	DF	DF
36	Total-penta1	339.8597	27.71	22519.371		3.062		1.49	1.55	NO	160.0

PF

Sample	Compound	Area	RT	Concn	Stdev	Ratio	EMPC	IF	IC	DF	DF
2	12378-PeCDF	339.8597	30.44	1498.157	0.912	0.198	0.175	1.89	1.55	YES	5.0
37	Total-pentafurans	339.8597	30.09	3410.711	0.927	0.459		2.38	1.55	YES	7.8
37	Total-pentafurans	339.8597	29.35	5982.219	0.927	0.804		2.25	1.55	YES	17.7
37	Total-pentafurans	339.8597	29.29	3474.602	0.927	0.467		1.30	1.55	YES	11.7
37	Total-pentafurans	339.8597	29.18	2191.479	0.927	0.295		2.73	1.55	YES	7.0
3	23478-PeCDF	339.8597	31.80	1670.215	0.943	0.228	0.228	1.44	1.55	NO	5.5

HF

Sample	Compound	Area	RT	Concn	Stdev	Ratio	EMPC	IF	IC	DF	DF
5	234678-HxCDF	373.8208	36.54	2759.653	1.073	0.452	0.452	1.25	1.24	NO	12.3
6	123678-HxCDF	373.8208	35.62	1768.224	1.056	0.263	0.148	2.98	1.24	YES	15.8
4	123478-HxCDF	373.8208	35.47	2307.982	1.101	0.360	0.360	1.11	1.24	NO	18.5
38	Total-hexafurans	373.8208	35.31	962.210	1.062	0.154		1.63	1.24	YES	9.4
38	Total-hexafurans	373.8208	34.82	16450.626	1.062	2.628		1.22	1.24	NO	118.1
38	Total-hexafurans	373.8208	33.95	16589.009	1.062	2.650		1.29	1.24	NO	127.1
38	Total-hexafurans	373.8208	33.74	5281.630	1.062	0.844		1.12	1.24	NO	36.0
7	123789-HxCDF	373.8208	37.67	698.425	1.017	0.120	0.090	0.70	1.24	YES	5.2

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HPF

39	Total-heptafurans	407.7818	40.57	43287.803	1.231	8.702		1.05	1.05	NO	310.8
39	Total-heptafurans	407.7818	40.25	548.907	1.231	0.110		0.91	1.05	NO	5.2
8	1234678-HpCDF	407.7818	39.77	25510.206	1.238	4.425	4.425	1.04	1.05	NO	198.8
9	1234789-HpCDF	407.7818	42.51	1482.670	1.224	0.354	0.354	0.99	1.05	NO	8.7
39	Total-heptafurans	407.7818	40.71	509.218	1.231	0.102		1.41	1.05	YES	6.9

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Furans,TF,PP,PF,HF,HPF,OF

35	Total-tetrafurans	303.9016	24.94	3286.164	0.921	0.384	0.77	0.77	NO	9.4	
35	Total-tetrafurans	303.9016	24.51	2018.174	0.921	0.236	0.51	0.77	YES	6.9	
35	Total-tetrafurans	303.9016	24.37	1347.780	0.921	0.157	0.61	0.77	YES	3.5	
35	Total-tetrafurans	303.9016	24.29	3423.382	0.921	0.400	0.94	0.77	YES	15.2	
35	Total-tetrafurans	303.9016	24.14	1828.945	0.921	0.214	1.64	0.77	YES	9.7	
35	Total-tetrafurans	303.9016	24.03	2132.800	0.921	0.249	0.38	0.77	YES	5.4	
35	Total-tetrafurans	303.9016	23.82	3256.048	0.921	0.380	0.91	0.77	YES	11.3	
35	Total-tetrafurans	303.9016	23.63	13255.314	0.921	1.549	0.78	0.77	NO	44.5	
35	Total-tetrafurans	303.9016	23.05	1336.779	0.921	0.156	0.98	0.77	YES	5.7	
35	Total-tetrafurans	303.9016	22.78	1603.910	0.921	0.187	0.54	0.77	YES	5.7	
40	Total-Furans	303.9016	28.45	636.414	1.065	0.064	1.39	0.77	YES	1.9	
35	Total-tetrafurans	303.9016	26.50	3532.765	0.921	0.413	0.83	0.77	NO	12.3	
35	Total-tetrafurans	303.9016	26.42	1728.145	0.921	0.202	0.57	0.77	YES	5.4	
1	2378-TCDF	303.9016	26.29	3212.402	0.921	0.375	0.375	0.71	0.77	NO	10.3
35	Total-tetrafurans	303.9016	26.09	1544.218	0.921	0.180	0.94	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	26.03	1126.789	0.921	0.132	0.48	0.77	YES	4.6	
35	Total-tetrafurans	303.9016	25.60	1517.488	0.921	0.177	0.40	0.77	YES	4.3	
35	Total-tetrafurans	303.9016	25.39	2780.834	0.921	0.325	0.92	0.77	YES	11.0	
35	Total-tetrafurans	303.9016	25.20	4516.936	0.921	0.528	0.72	0.77	NO	16.1	
35	Total-tetrafurans	303.9016	25.05	1288.305	0.921	0.151	0.33	0.77	YES	3.9	
2	12378-PeCDF	339.8597	30.44	1498.157	0.912	0.198	0.175	1.89	1.55	YES	5.0
37	Total-pentafurans	339.8597	30.09	3410.711	0.927	0.459	2.38	1.55	YES	7.8	
37	Total-pentafurans	339.8597	29.35	5982.219	0.927	0.804	2.25	1.55	YES	17.7	
37	Total-pentafurans	339.8597	29.29	3474.602	0.927	0.467	1.30	1.55	YES	11.7	
37	Total-pentafurans	339.8597	29.18	2191.479	0.927	0.295	2.73	1.55	YES	7.0	
3	23478-PeCDF	339.8597	31.80	1670.215	0.943	0.228	0.228	1.44	1.55	NO	5.5
5	234678-HxCDF	373.8208	36.54	2759.653	1.073	0.452	0.452	1.25	1.24	NO	12.3
6	123678-HxCDF	373.8208	35.62	1768.224	1.056	0.263	0.148	2.98	1.24	YES	15.8
4	123478-HxCDF	373.8208	35.47	2307.982	1.101	0.360	0.360	1.11	1.24	NO	18.5
38	Total-hexafurans	373.8208	35.31	962.210	1.062	0.154	1.63	1.24	YES	9.4	
38	Total-hexafurans	373.8208	34.82	16450.626	1.062	2.628	1.22	1.24	NO	118.1	
38	Total-hexafurans	373.8208	33.95	16589.009	1.062	2.650	1.29	1.24	NO	127.1	
38	Total-hexafurans	373.8208	33.74	5281.630	1.062	0.844	1.12	1.24	NO	36.0	
7	123789-HxCDF	373.8208	37.67	698.425	1.017	0.120	0.090	0.70	1.24	YES	5.2
39	Total-heptafurans	407.7818	40.57	43287.803	1.231	8.702	1.05	1.05	NO	310.8	
39	Total-heptafurans	407.7818	40.25	548.907	1.231	0.110	0.91	1.05	NO	5.2	
8	1234678-HpCDF	407.7818	39.77	25510.206	1.238	4.425	4.425	1.04	1.05	NO	198.8
9	1234789-HpCDF	407.7818	42.51	1482.670	1.224	0.354	0.354	0.99	1.05	NO	8.7
39	Total-heptafurans	407.7818	40.71	509.218	1.231	0.102	1.41	1.05	YES	6.9	
10	OCDF	441.7428	47.88	34095.474	1.162	10.126	10.126	0.93	0.89	NO	152.5
36	Total-penta1	339.8597	27.71	22519.371		3.062	1.49	1.55	NO	160.0	

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TD

ID	Name	Area	Height	Area/Height	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
11	2378-TCDD	319.8965	26.94	1889.270	1.106	0.260	0.206	0.53	0.77	YES	9.5
41	Total-tetradiioxins	319.8965	26.59	618.775	1.106	0.085		0.74	0.77	NO	4.6
41	Total-tetradiioxins	319.8965	26.53	484.205	1.106	0.067		1.45	0.77	YES	4.7
41	Total-tetradiioxins	319.8965	26.09	786.127	1.106	0.108		0.67	0.77	NO	4.1
41	Total-tetradiioxins	319.8965	25.91	474.716	1.106	0.065		0.36	0.77	YES	2.6
41	Total-tetradiioxins	319.8965	25.53	2081.190	1.106	0.286		0.52	0.77	YES	9.5
41	Total-tetradiioxins	319.8965	25.29	1844.238	1.106	0.254		0.55	0.77	YES	8.7
41	Total-tetradiioxins	319.8965	25.06	1145.862	1.106	0.158		0.81	0.77	NO	6.0
41	Total-tetradiioxins	319.8965	24.55	526.725	1.106	0.072		0.42	0.77	YES	3.7
41	Total-tetradiioxins	319.8965	24.33	4506.019	1.106	0.619		1.00	0.77	YES	28.4
41	Total-tetradiioxins	319.8965	24.06	6943.410	1.106	0.955		0.71	0.77	NO	37.1
41	Total-tetradiioxins	319.8965	27.05	926.816	1.106	0.127		0.52	0.77	YES	4.7

PD

ID	Name	Area	Height	Area/Height	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
12	12378-PeCDD	355.8546	32.01	1258.978	1.001	0.243	0.170	0.74	1.55	YES	6.1
42	Total-pentadiioxins	355.8546	31.36	962.900	1.001	0.186		2.02	1.55	YES	7.8
42	Total-pentadiioxins	355.8546	30.97	1596.620	1.001	0.308		2.12	1.55	YES	7.4
42	Total-pentadiioxins	355.8546	30.80	2309.242	1.001	0.446		1.57	1.55	NO	11.6
42	Total-pentadiioxins	355.8546	30.65	1661.489	1.001	0.321		2.02	1.55	YES	10.7
42	Total-pentadiioxins	355.8546	30.45	2918.496	1.001	0.564		1.64	1.55	NO	18.3
42	Total-pentadiioxins	355.8546	29.82	1499.276	1.001	0.290		2.30	1.55	YES	11.5
42	Total-pentadiioxins	355.8546	29.34	6209.002	1.001	1.200		1.81	1.55	YES	22.5
42	Total-pentadiioxins	355.8546	32.43	458.912	1.001	0.089		0.96	1.55	YES	2.8

HD

ID	Name	Area	Height	Area/Height	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
13	123478-HxCDD	389.8157	36.70	1631.063	0.978	0.340	0.340	1.16	1.24	NO	6.7
43	Total-hexadiioxins	389.8157	35.84	1719.965	0.937	0.356		2.15	1.24	YES	9.6
43	Total-hexadiioxins	389.8157	35.74	9050.083	0.937	1.873		1.61	1.24	YES	47.7
43	Total-hexadiioxins	389.8157	35.34	7213.697	0.937	1.493		1.39	1.24	NO	27.6
43	Total-hexadiioxins	389.8157	34.53	13585.492	0.937	2.811		1.19	1.24	NO	56.4
15	123789-HxCDD	389.8157	37.26	3159.434	0.904	0.678	0.678	1.17	1.24	NO	14.3
43	Total-hexadiioxins	389.8157	37.01	672.130	0.937	0.139		2.40	1.24	YES	5.4
14	123678-HxCDD	389.8157	36.82	5100.827	0.929	1.016	1.016	1.34	1.24	NO	22.1
43	Total-hexadiioxins	389.8157	35.71	7938.162	0.937	1.643		0.90	1.24	YES	36.7

HPD

ID	Name	Area	Height	Area/Height	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
16	1234678-HpCDD	423.7766	41.60	100336.703	1.029	24.427	24.427	1.05	1.05	NO	406.1
44	Total-heptadiioxins	423.7766	40.33	138344.930	1.029	33.681		1.05	1.05	NO	564.5

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Dioxins,TD,PD,HD,HPD,OD

45	Total-Dioxins	319.8965	22.78	181.759	0.994	0.028		0.69	0.77	NO	2.0
11	2378-TCDD	319.8965	26.94	1889.270	1.106	0.260	0.206	0.53	0.77	YES	9.5
41	Total-tetradoxins	319.8965	26.59	618.775	1.106	0.085		0.74	0.77	NO	4.6
41	Total-tetradoxins	319.8965	26.53	484.205	1.106	0.067		1.45	0.77	YES	4.7
41	Total-tetradoxins	319.8965	26.09	786.127	1.106	0.108		0.67	0.77	NO	4.1
41	Total-tetradoxins	319.8965	25.91	474.716	1.106	0.065		0.36	0.77	YES	2.6
41	Total-tetradoxins	319.8965	25.53	2081.190	1.106	0.286		0.52	0.77	YES	9.5
41	Total-tetradoxins	319.8965	25.29	1844.238	1.106	0.254		0.55	0.77	YES	8.7
41	Total-tetradoxins	319.8965	25.06	1145.862	1.106	0.158		0.81	0.77	NO	6.0
41	Total-tetradoxins	319.8965	24.55	526.725	1.106	0.072		0.42	0.77	YES	3.7
41	Total-tetradoxins	319.8965	24.33	4506.019	1.106	0.619		1.00	0.77	YES	28.4
41	Total-tetradoxins	319.8965	24.06	6943.410	1.106	0.955		0.71	0.77	NO	37.1
45	Total-Dioxins	319.8965	27.80	428.425	0.994	0.066		0.30	0.77	YES	1.9
41	Total-tetradoxins	319.8965	27.05	926.816	1.106	0.127		0.52	0.77	YES	4.7
12	12378-PeCDD	355.8546	32.01	1258.978	1.001	0.243	0.170	0.74	1.55	YES	6.1
42	Total-pentadoxins	355.8546	31.36	962.900	1.001	0.186		2.02	1.55	YES	7.8
42	Total-pentadoxins	355.8546	30.97	1596.620	1.001	0.308		2.12	1.55	YES	7.4
42	Total-pentadoxins	355.8546	30.80	2309.242	1.001	0.446		1.57	1.55	NO	11.6
42	Total-pentadoxins	355.8546	30.65	1661.489	1.001	0.321		2.02	1.55	YES	10.7
42	Total-pentadoxins	355.8546	30.45	2918.496	1.001	0.564		1.64	1.55	NO	18.3
42	Total-pentadoxins	355.8546	29.82	1499.276	1.001	0.290		2.30	1.55	YES	11.5
42	Total-pentadoxins	355.8546	29.34	6209.002	1.001	1.200		1.81	1.55	YES	22.5
42	Total-pentadoxins	355.8546	32.43	458.912	1.001	0.089		0.96	1.55	YES	2.8
13	123478-HxCDD	389.8157	36.70	1631.063	0.978	0.340	0.340	1.16	1.24	NO	6.7
43	Total-hexadoxins	389.8157	35.84	1719.965	0.937	0.356		2.15	1.24	YES	9.6
43	Total-hexadoxins	389.8157	35.74	9050.083	0.937	1.873		1.61	1.24	YES	47.7
43	Total-hexadoxins	389.8157	35.34	7213.697	0.937	1.493		1.39	1.24	NO	27.6
43	Total-hexadoxins	389.8157	34.53	13585.492	0.937	2.811		1.19	1.24	NO	56.4
15	123789-HxCDD	389.8157	37.26	3159.434	0.904	0.678	0.678	1.17	1.24	NO	14.3
43	Total-hexadoxins	389.8157	37.01	672.130	0.937	0.139		2.40	1.24	YES	5.4
14	123678-HxCDD	389.8157	36.82	5100.827	0.929	1.016	1.016	1.34	1.24	NO	22.1
16	1234678-HpCDD	423.7766	41.60	100336.703	1.029	24.427	24.427	1.05	1.05	NO	406.1
44	Total-heptadoxins	423.7766	40.33	138344.930	1.029	33.681		1.05	1.05	NO	564.5
17	OCDD	457.7377	47.61	564778.344	1.011	192.755	192....	0.87	0.89	NO	1888.1
43	Total-hexadoxins	389.8157	35.71	7938.162	0.937	1.643		0.90	1.24	YES	36.7

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TotalTEQ,Furans,Dioxins

35	Total-tetrafurans	303.9016	24.94	3286.164	0.921	0.384	0.77	0.77	NO	9.4	
35	Total-tetrafurans	303.9016	24.51	2018.174	0.921	0.236	0.51	0.77	YES	6.9	
35	Total-tetrafurans	303.9016	24.37	1347.780	0.921	0.157	0.61	0.77	YES	3.5	
35	Total-tetrafurans	303.9016	24.29	3423.382	0.921	0.400	0.94	0.77	YES	15.2	
35	Total-tetrafurans	303.9016	24.14	1828.945	0.921	0.214	1.64	0.77	YES	9.7	
35	Total-tetrafurans	303.9016	24.03	2132.800	0.921	0.249	0.38	0.77	YES	5.4	
35	Total-tetrafurans	303.9016	23.82	3256.048	0.921	0.380	0.91	0.77	YES	11.3	
35	Total-tetrafurans	303.9016	23.63	13255.314	0.921	1.549	0.78	0.77	NO	44.5	
35	Total-tetrafurans	303.9016	23.05	1336.779	0.921	0.156	0.98	0.77	YES	5.7	
35	Total-tetrafurans	303.9016	22.78	1603.910	0.921	0.187	0.54	0.77	YES	5.7	
40	Total-Furans	303.9016	28.45	636.414	1.065	0.064	1.39	0.77	YES	1.9	
35	Total-tetrafurans	303.9016	26.50	3532.765	0.921	0.413	0.83	0.77	NO	12.3	
35	Total-tetrafurans	303.9016	26.42	1728.145	0.921	0.202	0.57	0.77	YES	5.4	
1	2378-TCDF	303.9016	26.29	3212.402	0.921	0.375	0.375	0.71	0.77	NO	10.3
35	Total-tetrafurans	303.9016	26.09	1544.218	0.921	0.180	0.94	0.77	YES	6.6	
35	Total-tetrafurans	303.9016	26.03	1126.789	0.921	0.132	0.48	0.77	YES	4.6	
35	Total-tetrafurans	303.9016	25.60	1517.488	0.921	0.177	0.40	0.77	YES	4.3	
35	Total-tetrafurans	303.9016	25.39	2780.834	0.921	0.325	0.92	0.77	YES	11.0	
35	Total-tetrafurans	303.9016	25.20	4516.936	0.921	0.528	0.72	0.77	NO	16.1	
35	Total-tetrafurans	303.9016	25.05	1288.305	0.921	0.151	0.33	0.77	YES	3.9	
2	12378-PeCDF	339.8597	30.44	1498.157	0.912	0.198	0.175	1.89	1.55	YES	5.0
37	Total-pentafurans	339.8597	30.09	3410.711	0.927	0.459	2.38	1.55	YES	7.8	
37	Total-pentafurans	339.8597	29.35	5982.219	0.927	0.804	2.25	1.55	YES	17.7	
37	Total-pentafurans	339.8597	29.29	3474.602	0.927	0.467	1.30	1.55	YES	11.7	
37	Total-pentafurans	339.8597	29.18	2191.479	0.927	0.295	2.73	1.55	YES	7.0	
3	23478-PeCDF	339.8597	31.80	1670.215	0.943	0.228	0.228	1.44	1.55	NO	5.5
5	234678-HxCDF	373.8208	36.54	2759.653	1.073	0.452	0.452	1.25	1.24	NO	12.3
6	123678-HxCDF	373.8208	35.62	1768.224	1.056	0.263	0.148	2.98	1.24	YES	15.8
4	123478-HxCDF	373.8208	35.47	2307.982	1.101	0.360	0.360	1.11	1.24	NO	18.5
38	Total-hexafurans	373.8208	35.31	962.210	1.062	0.154	1.63	1.24	YES	9.4	
38	Total-hexafurans	373.8208	34.82	16450.626	1.062	2.628	1.22	1.24	NO	118.1	
38	Total-hexafurans	373.8208	33.95	16589.009	1.062	2.650	1.29	1.24	NO	127.1	
38	Total-hexafurans	373.8208	33.74	5281.630	1.062	0.844	1.12	1.24	NO	36.0	
7	123789-HxCDF	373.8208	37.67	698.425	1.017	0.120	0.090	0.70	1.24	YES	5.2
39	Total-heptafurans	407.7818	40.57	43287.803	1.231	8.702	1.05	1.05	NO	310.8	
39	Total-heptafurans	407.7818	40.25	548.907	1.231	0.110	0.91	1.05	NO	5.2	
8	1234678-HpCDF	407.7818	39.77	25510.206	1.238	4.425	4.425	1.04	1.05	NO	198.8
9	1234789-HpCDF	407.7818	42.51	1482.670	1.224	0.354	0.354	0.99	1.05	NO	8.7
39	Total-heptafurans	407.7818	40.71	509.218	1.231	0.102	1.41	1.05	YES	6.9	
10	OCDF	441.7428	47.88	34095.474	1.162	10.126	10.126	0.93	0.89	NO	152.5
36	Total-penta1	339.8597	27.71	22519.371		3.062	1.49	1.55	NO	160.0	
45	Total-Dioxins	319.8965	22.78	181.759	0.994	0.028	0.69	0.77	NO	2.0	
11	2378-TCDD	319.8965	26.94	1889.270	1.106	0.260	0.206	0.53	0.77	YES	9.5
41	Total-tetradioxins	319.8965	26.59	618.775	1.106	0.085	0.74	0.77	NO	4.6	
41	Total-tetradioxins	319.8965	26.53	484.205	1.106	0.067	1.45	0.77	YES	4.7	
41	Total-tetradioxins	319.8965	26.09	786.127	1.106	0.108	0.67	0.77	NO	4.1	
41	Total-tetradioxins	319.8965	25.91	474.716	1.106	0.065	0.36	0.77	YES	2.6	
41	Total-tetradioxins	319.8965	25.53	2081.190	1.106	0.286	0.52	0.77	YES	9.5	
41	Total-tetradioxins	319.8965	25.29	1844.238	1.106	0.254	0.55	0.77	YES	8.7	



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TotalTEQ,Furans,Dioxins

ID	Name	Area	Conc	Stdev	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
41	Total-tetradoxins	319.8965	25.06	1145.862	1.106	0.158		0.81	0.77	NO	6.0
41	Total-tetradoxins	319.8965	24.55	526.725	1.106	0.072		0.42	0.77	YES	3.7
41	Total-tetradoxins	319.8965	24.33	4506.019	1.106	0.619		1.00	0.77	YES	28.4
41	Total-tetradoxins	319.8965	24.06	6943.410	1.106	0.955		0.71	0.77	NO	37.1
45	Total-Dioxins	319.8965	27.80	428.425	0.994	0.066		0.30	0.77	YES	1.9
41	Total-tetradoxins	319.8965	27.05	926.816	1.106	0.127		0.52	0.77	YES	4.7
12	12378-PeCDD	355.8546	32.01	1258.978	1.001	0.243	0.170	0.74	1.55	YES	6.1
42	Total-pentadoxins	355.8546	31.36	962.900	1.001	0.186		2.02	1.55	YES	7.8
42	Total-pentadoxins	355.8546	30.97	1596.620	1.001	0.308		2.12	1.55	YES	7.4
42	Total-pentadoxins	355.8546	30.80	2309.242	1.001	0.446		1.57	1.55	NO	11.6
42	Total-pentadoxins	355.8546	30.65	1661.489	1.001	0.321		2.02	1.55	YES	10.7
42	Total-pentadoxins	355.8546	30.45	2918.496	1.001	0.564		1.64	1.55	NO	18.3
42	Total-pentadoxins	355.8546	29.82	1499.276	1.001	0.290		2.30	1.55	YES	11.5
42	Total-pentadoxins	355.8546	29.34	6209.002	1.001	1.200		1.81	1.55	YES	22.5
42	Total-pentadoxins	355.8546	32.43	458.912	1.001	0.089		0.96	1.55	YES	2.8
13	123478-HxCDD	389.8157	36.70	1631.063	0.978	0.340	0.340	1.16	1.24	NO	6.7
43	Total-hexadoxins	389.8157	35.84	1719.965	0.937	0.356		2.15	1.24	YES	9.6
43	Total-hexadoxins	389.8157	35.74	9050.083	0.937	1.873		1.61	1.24	YES	47.7
43	Total-hexadoxins	389.8157	35.34	7213.697	0.937	1.493		1.39	1.24	NO	27.6
43	Total-hexadoxins	389.8157	34.53	13585.492	0.937	2.811		1.19	1.24	NO	56.4
15	123789-HxCDD	389.8157	37.26	3159.434	0.904	0.678	0.678	1.17	1.24	NO	14.3
43	Total-hexadoxins	389.8157	37.01	672.130	0.937	0.139		2.40	1.24	YES	5.4
14	123678-HxCDD	389.8157	36.82	5100.827	0.929	1.016	1.016	1.34	1.24	NO	22.1
16	1234678-HpCDD	423.7766	41.60	100336.703	1.029	24.427	24.427	1.05	1.05	NO	406.1
44	Total-heptadoxins	423.7766	40.33	138344.930	1.029	33.681		1.05	1.05	NO	564.5
17	OCDD	457.7377	47.61	564778.344	1.011	192.755	192....	0.87	0.89	NO	1888.1
43	Total-hexadoxins	389.8157	35.71	7938.162	0.937	1.643		0.90	1.24	YES	36.7

PFK1

ID	Name	Area	Conc	Stdev	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio

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PFK2

49	FUNCTION2 PFK	366.9792	29.63	0.000	0.000	1.8
49	FUNCTION2 PFK	366.9792	29.46	0.000	0.000	1.8
49	FUNCTION2 PFK	366.9792	29.25	0.000	0.000	10.1
49	FUNCTION2 PFK	366.9792	29.16	0.000	0.000	13.5
49	FUNCTION2 PFK	366.9792	29.07	0.000	0.000	17.0
49	FUNCTION2 PFK	366.9792	28.64	0.000	0.000	34.3
49	FUNCTION2 PFK	366.9792	32.10	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	31.85	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	31.74	0.000	0.000	0.4
49	FUNCTION2 PFK	366.9792	31.44	0.000	0.000	0.5
49	FUNCTION2 PFK	366.9792	31.41	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	31.31	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	31.24	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	31.19	0.000	0.000	0.7
49	FUNCTION2 PFK	366.9792	30.95	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	30.52	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	30.45	0.000	0.000	1.6
49	FUNCTION2 PFK	366.9792	30.35	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	30.28	0.000	0.000	1.0
49	FUNCTION2 PFK	366.9792	29.99	0.000	0.000	0.8
49	FUNCTION2 PFK	366.9792	29.92	0.000	0.000	2.9
49	FUNCTION2 PFK	366.9792	29.82	0.000	0.000	3.0
49	FUNCTION2 PFK	366.9792	33.01	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	32.92	0.000	0.000	1.9
49	FUNCTION2 PFK	366.9792	32.80	0.000	0.000	2.1
49	FUNCTION2 PFK	366.9792	32.74	0.000	0.000	0.7
49	FUNCTION2 PFK	366.9792	32.45	0.000	0.000	0.5
49	FUNCTION2 PFK	366.9792	32.38	0.000	0.000	2.2
49	FUNCTION2 PFK	366.9792	32.31	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	32.22	0.000	0.000	1.7
49	FUNCTION2 PFK	366.9792	32.13	0.000	0.000	1.0

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PFK3

Peak #	Name	Area	Height	Width	Integration	Response	Concentration
50	FUNCTION3 PFK	380.9760	34.78	0.000	0.000		1.3
50	FUNCTION3 PFK	380.9760	34.71	0.000	0.000		2.0
50	FUNCTION3 PFK	380.9760	34.55	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	34.17	0.000	0.000		0.9
50	FUNCTION3 PFK	380.9760	33.95	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	33.84	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	36.89	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	36.84	0.000	0.000		1.3
50	FUNCTION3 PFK	380.9760	36.78	0.000	0.000		0.5
50	FUNCTION3 PFK	380.9760	36.65	0.000	0.000		1.1
50	FUNCTION3 PFK	380.9760	36.39	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	36.21	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	35.87	0.000	0.000		0.5
50	FUNCTION3 PFK	380.9760	35.76	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	35.71	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	35.64	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	35.51	0.000	0.000		0.9
50	FUNCTION3 PFK	380.9760	35.35	0.000	0.000		1.6
50	FUNCTION3 PFK	380.9760	35.28	0.000	0.000		2.4
50	FUNCTION3 PFK	380.9760	35.00	0.000	0.000		0.8
50	FUNCTION3 PFK	380.9760	34.91	0.000	0.000		0.8
50	FUNCTION3 PFK	380.9760	34.87	0.000	0.000		0.4
50	FUNCTION3 PFK	380.9760	38.50	0.000	0.000		0.6
50	FUNCTION3 PFK	380.9760	38.02	0.000	0.000		0.9
50	FUNCTION3 PFK	380.9760	37.92	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	37.61	0.000	0.000		9.1
50	FUNCTION3 PFK	380.9760	37.46	0.000	0.000		0.7
50	FUNCTION3 PFK	380.9760	37.40	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	37.02	0.000	0.000		0.4

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ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

PFK4

Name	Area	Height	Area Ratio	Height Ratio	SM
51 FUNCTION4 PFK	430.9728	40.12	0.000		1.1
51 FUNCTION4 PFK	430.9728	40.04	0.000		1.6
51 FUNCTION4 PFK	430.9728	39.77	0.000		6.6
51 FUNCTION4 PFK	430.9728	39.46	0.000		18.1
51 FUNCTION4 PFK	430.9728	39.30	0.000		24.2
51 FUNCTION4 PFK	430.9728	39.13	0.000		29.5
51 FUNCTION4 PFK	430.9728	38.94	0.000		36.8
51 FUNCTION4 PFK	430.9728	38.86	0.000		39.7
51 FUNCTION4 PFK	430.9728	43.09	0.000		1.6
51 FUNCTION4 PFK	430.9728	43.03	0.000		0.9
51 FUNCTION4 PFK	430.9728	42.67	0.000		1.0
51 FUNCTION4 PFK	430.9728	42.44	0.000		1.2
51 FUNCTION4 PFK	430.9728	42.26	0.000		0.5
51 FUNCTION4 PFK	430.9728	42.12	0.000		1.9
51 FUNCTION4 PFK	430.9728	41.86	0.000		1.7
51 FUNCTION4 PFK	430.9728	41.73	0.000		1.3
51 FUNCTION4 PFK	430.9728	41.58	0.000		1.6
51 FUNCTION4 PFK	430.9728	41.49	0.000		1.3
51 FUNCTION4 PFK	430.9728	41.44	0.000		0.8
51 FUNCTION4 PFK	430.9728	41.23	0.000		0.6
51 FUNCTION4 PFK	430.9728	40.89	0.000		0.8
51 FUNCTION4 PFK	430.9728	40.77	0.000		2.1
51 FUNCTION4 PFK	430.9728	40.70	0.000		1.1
51 FUNCTION4 PFK	430.9728	40.55	0.000		1.0
51 FUNCTION4 PFK	430.9728	44.82	0.000		0.4
51 FUNCTION4 PFK	430.9728	44.51	0.000		0.7
51 FUNCTION4 PFK	430.9728	44.44	0.000		0.9
51 FUNCTION4 PFK	430.9728	44.21	0.000		0.6
51 FUNCTION4 PFK	430.9728	43.69	0.000		1.7
51 FUNCTION4 PFK	430.9728	43.63	0.000		1.2
51 FUNCTION4 PFK	430.9728	43.43	0.000		1.0
51 FUNCTION4 PFK	430.9728	43.17	0.000		0.5

PFK5

Name	Area	Height	Area Ratio	Height Ratio	SM

ETHERS1

Name	Area	Height	Area Ratio	Height Ratio	SM
53 FUNCTION1 HXCD...	375.8364	26.08	0.000	0.000	3.8
53 FUNCTION1 HXCD...	375.8364	24.15	0.000	0.000	29.5
53 FUNCTION1 HXCD...	375.8364	21.16	0.000	0.000	4.8

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

ETHERS2

ID	Name	Trace	RT	Abn. Res.	QEMM	EMPO	1st Rat.	2nd Rat.	3rd Rat.	SN
54	FUNCTION1 HPCD...	409.7974	21.52	0.000	0.000					2.5
54	FUNCTION1 HPCD...	409.7974	21.18	0.000	0.000					4.7
54	FUNCTION1 HPCD...	409.7974	28.12	0.000	0.000					3.2
54	FUNCTION1 HPCD...	409.7974	27.80	0.000	0.000					2.2
54	FUNCTION1 HPCD...	409.7974	27.20	0.000	0.000					1.6
54	FUNCTION1 HPCD...	409.7974	25.57	0.000	0.000					1.6
54	FUNCTION1 HPCD...	409.7974	25.29	0.000	0.000					2.1
54	FUNCTION1 HPCD...	409.7974	24.69	0.000	0.000					1.9
54	FUNCTION1 HPCD...	409.7974	22.64	0.000	0.000					3.0
54	FUNCTION1 HPCD...	409.7974	22.52	0.000	0.000					1.5
54	FUNCTION1 HPCD...	409.7974	21.94	0.000	0.000					3.6

ETHERS3

ID	Name	Trace	RT	Abn. Res.	QEMM	EMPO	1st Rat.	2nd Rat.	3rd Rat.	SN
55	FUNCTION2 HPCD...	409.7974	31.32	0.000	0.000					2.2
55	FUNCTION2 HPCD...	409.7974	29.73	0.000	0.000					2.7
55	FUNCTION2 HPCD...	409.7974	28.62	0.000	0.000					2.3

ETHERS4

ID	Name	Trace	RT	Abn. Res.	QEMM	EMPO	1st Rat.	2nd Rat.	3rd Rat.	SN
56	FUNCTION3 OCDPE	445.7555	33.91	0.000	0.000					3.9

ETHERS5

ID	Name	Trace	RT	Abn. Res.	QEMM	EMPO	1st Rat.	2nd Rat.	3rd Rat.	SN
57	FUNCTION4 NCDPE	479.7165	44.23	0.000	0.000					5.5
57	FUNCTION4 NCDPE	479.7165	39.35	0.000	0.000					485.2

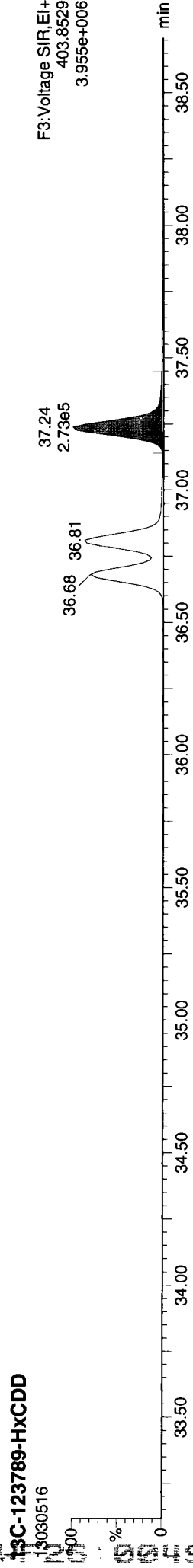
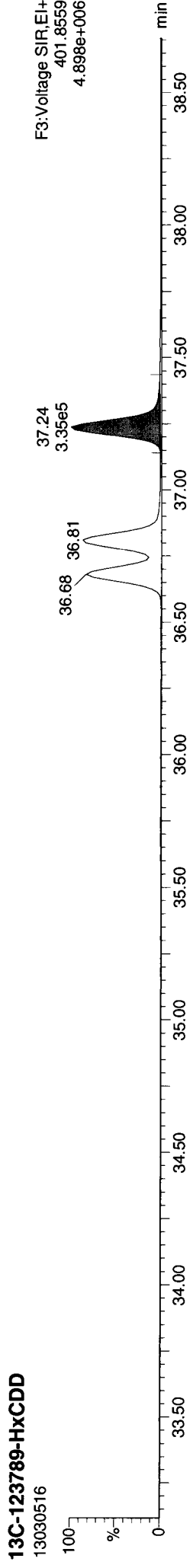
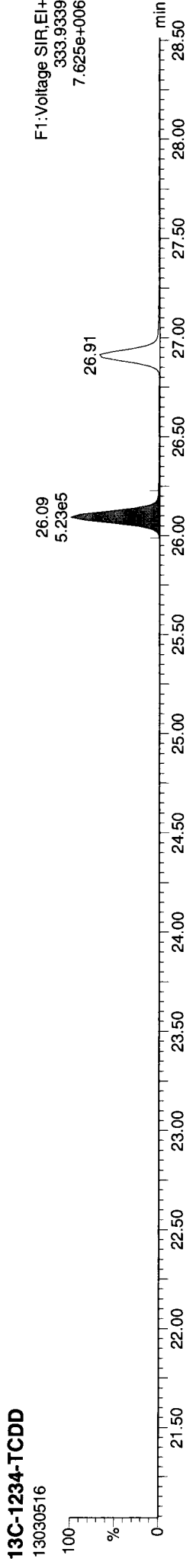
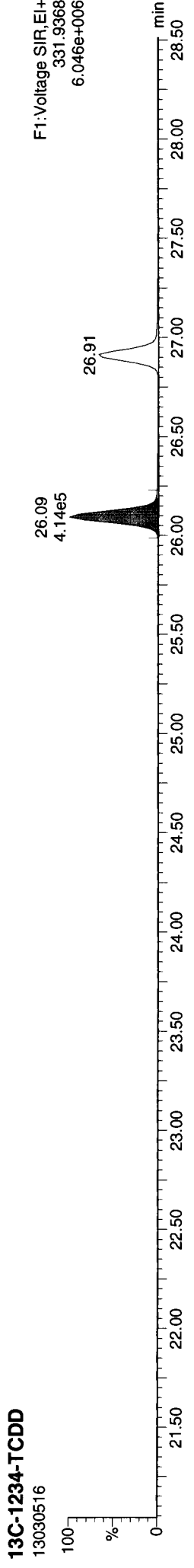
ETHERS6

ID	Name	Trace	RT	Abn. Res.	QEMM	EMPO	1st Rat.	2nd Rat.	3rd Rat.	SN

**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:29 Pacific Standard Time

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**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

**ID:** WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

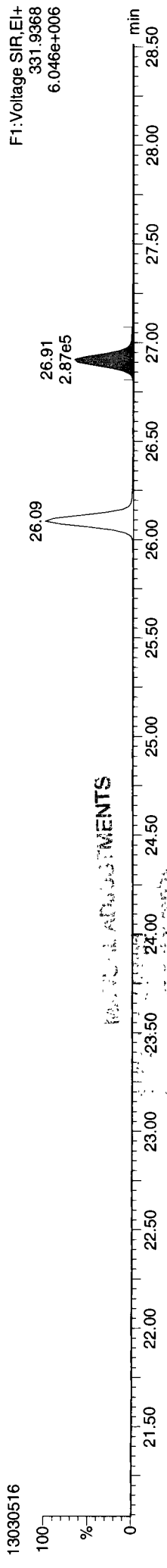


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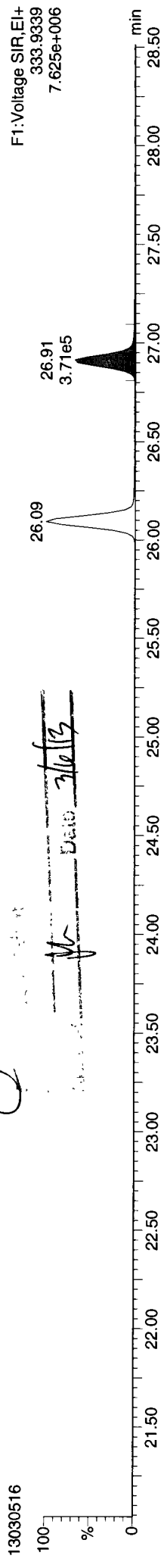
MassLynx 4.1 SCN 714

ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

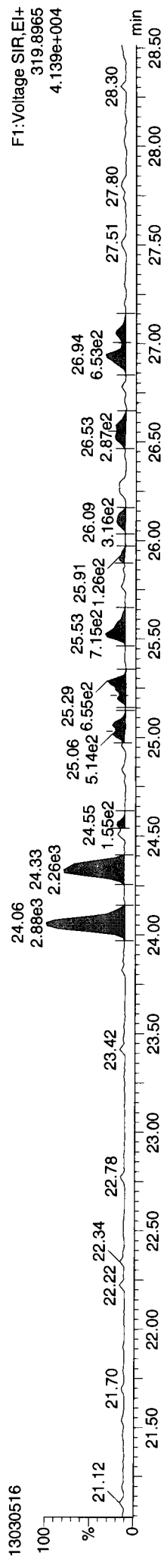
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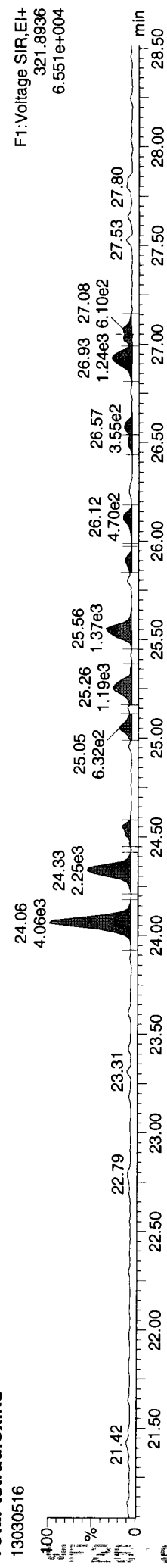
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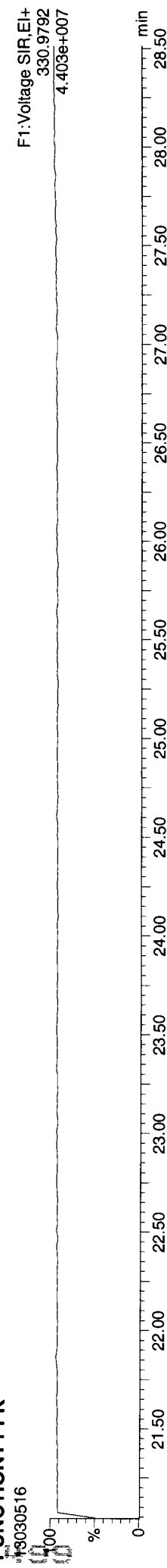
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Total-tetradioxins

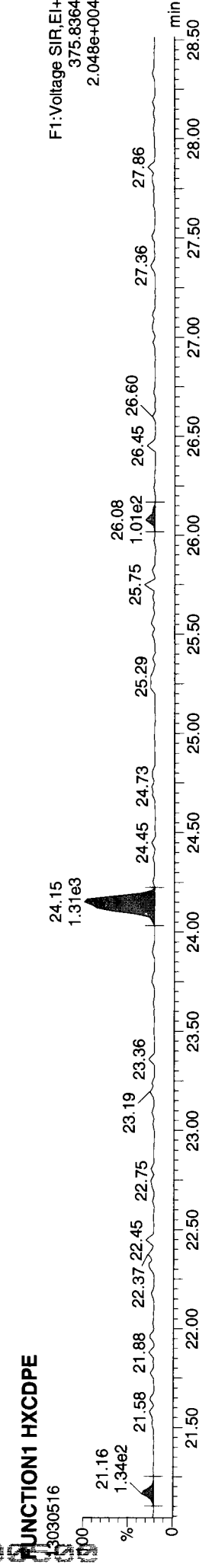
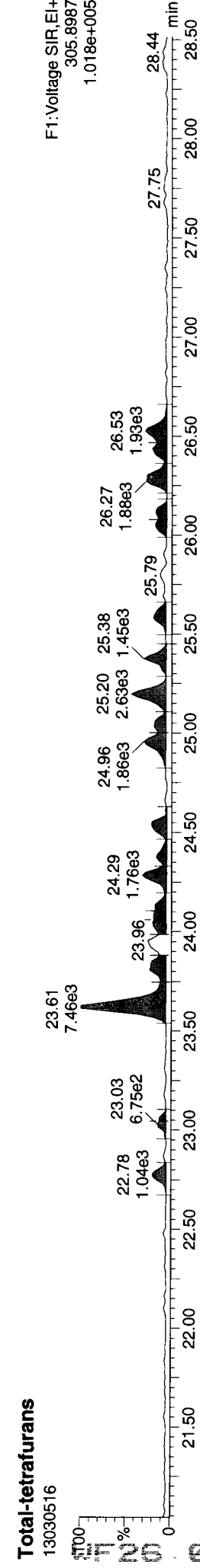
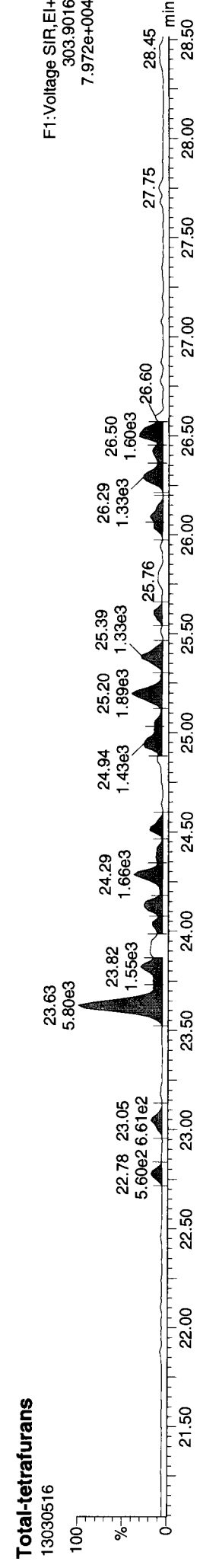
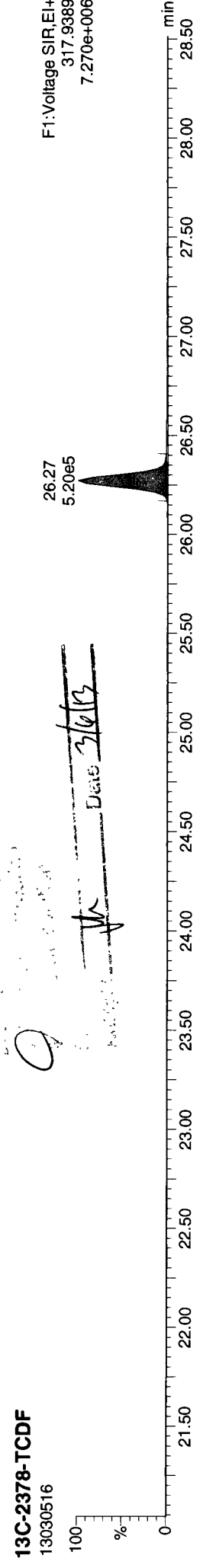
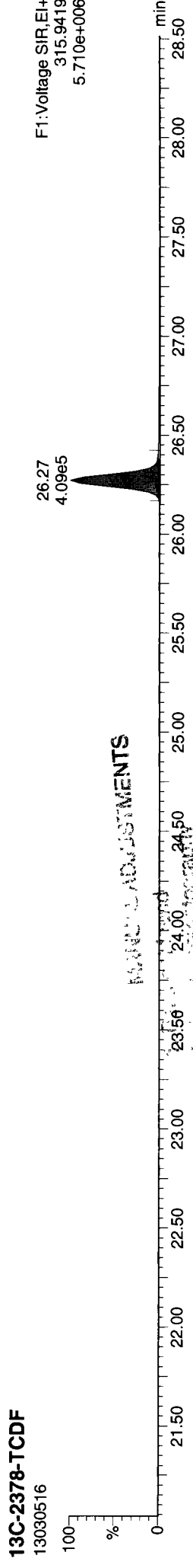


FUNCTION1 PFK



Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

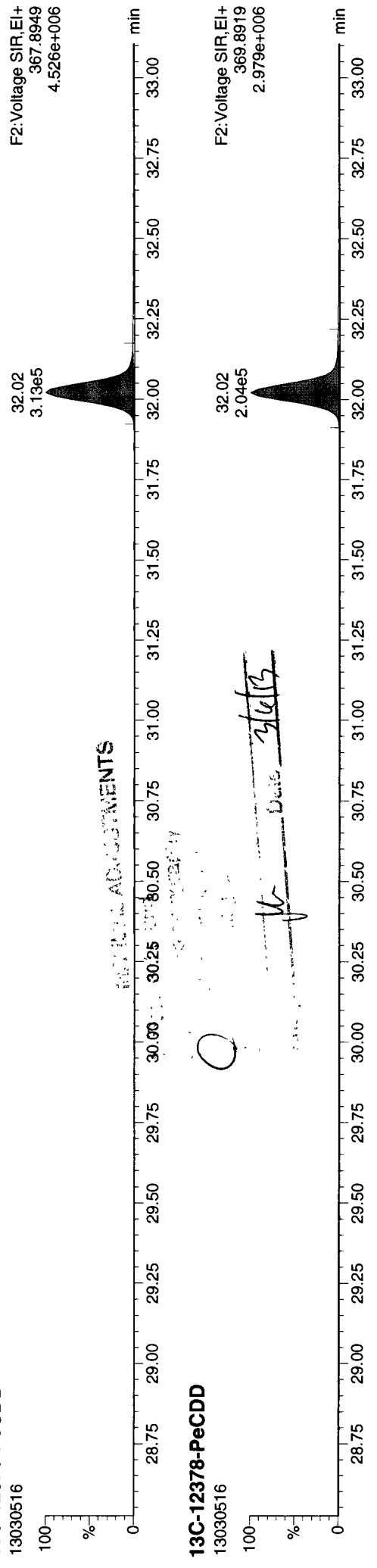




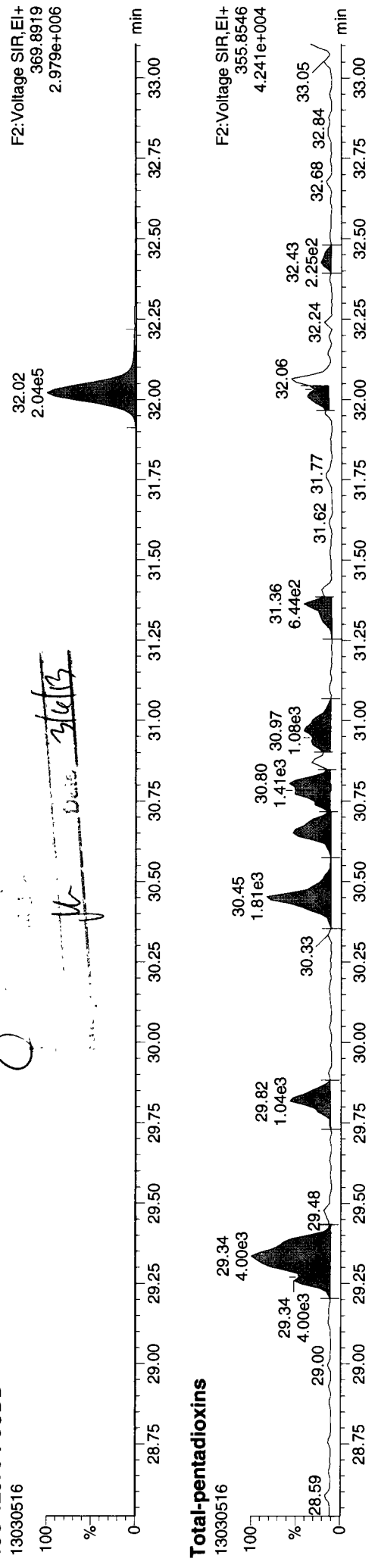
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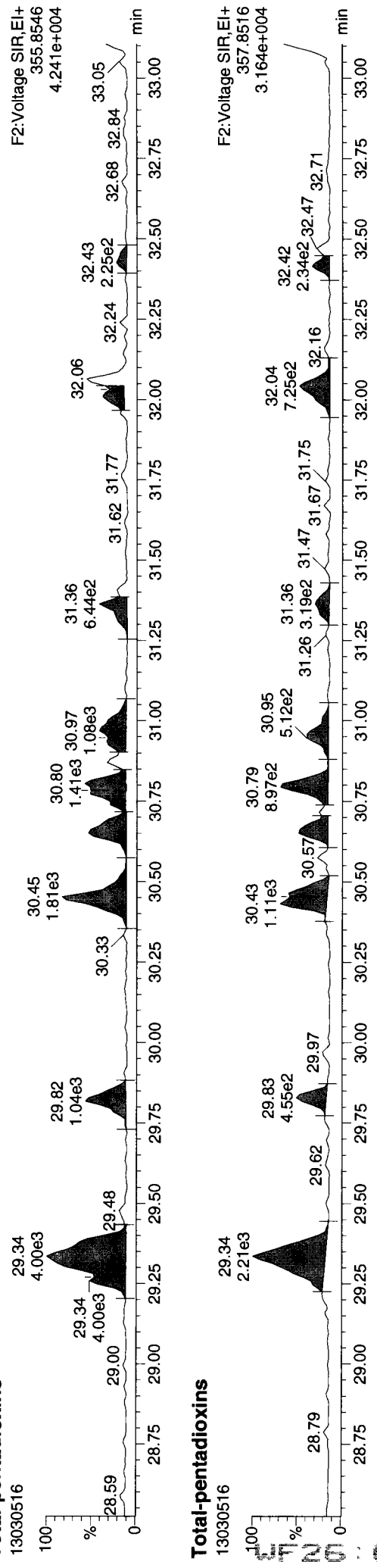
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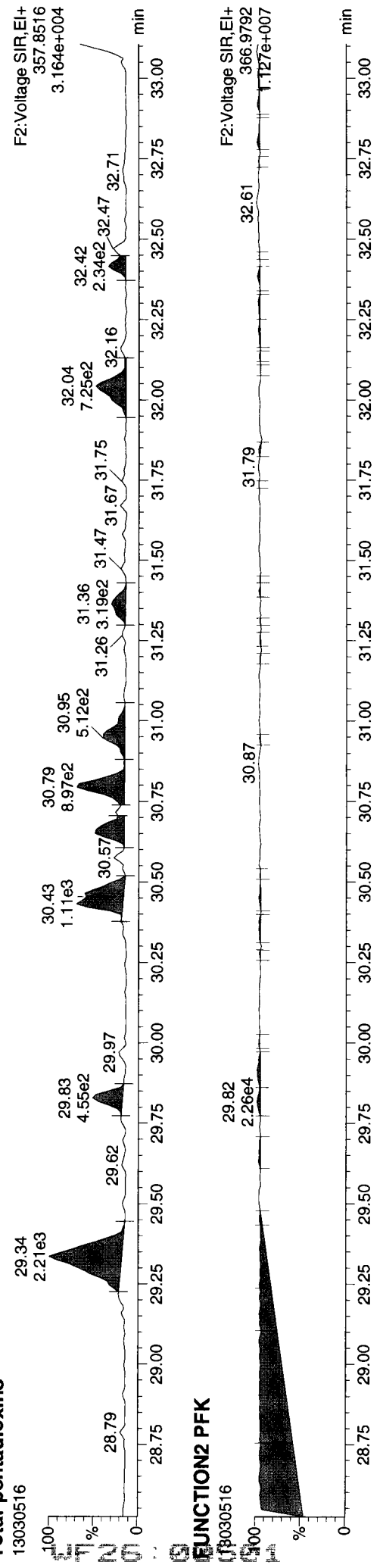
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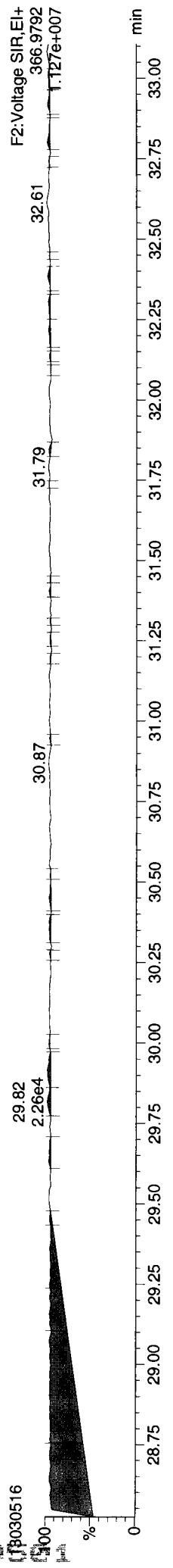
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Total-pentadioxins  
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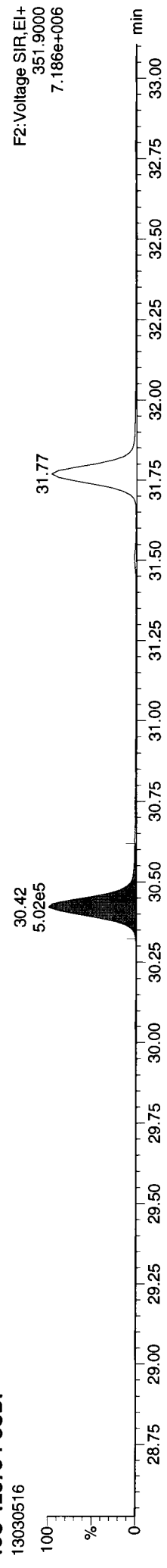
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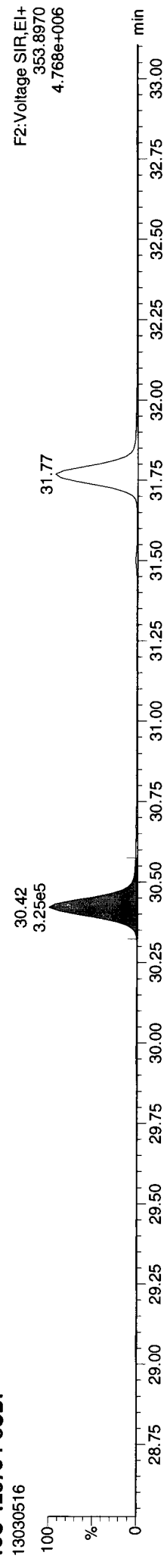
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**ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk**

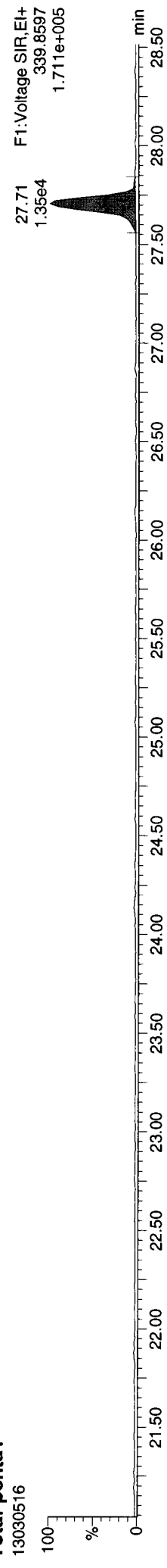
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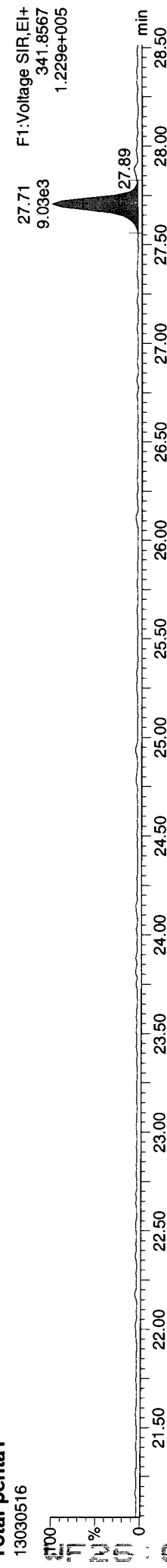
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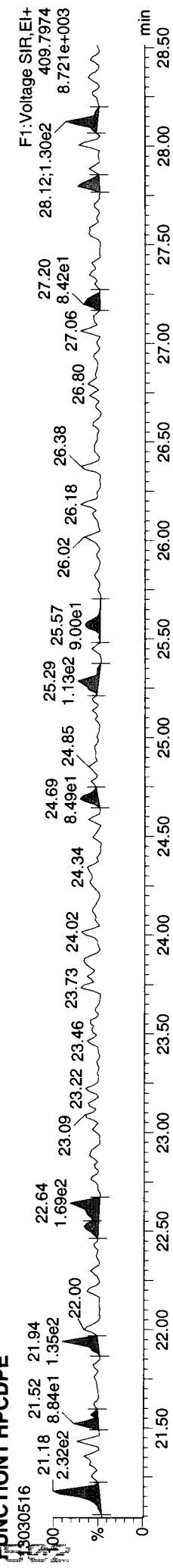
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**Total-penta 1**  
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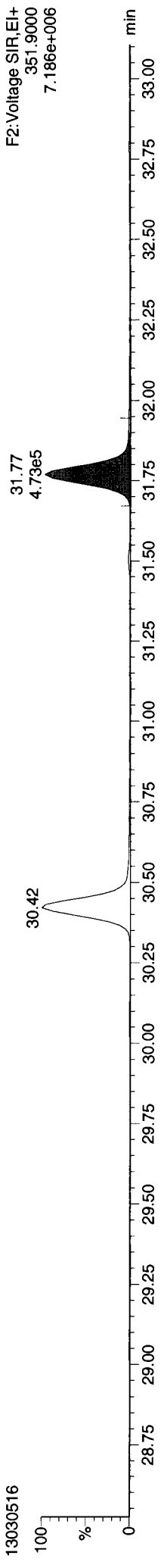
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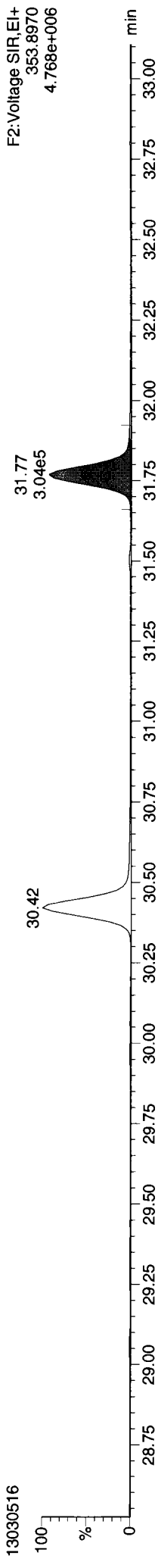
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ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

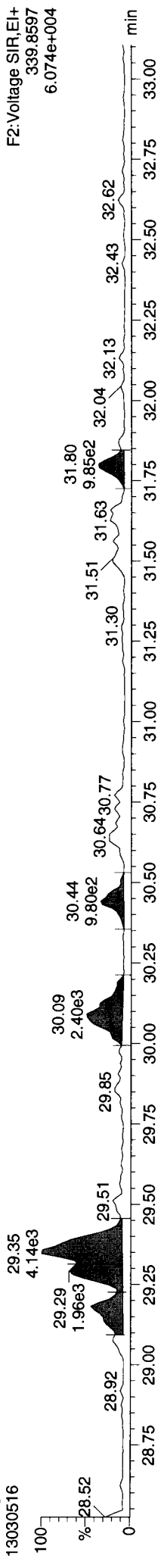
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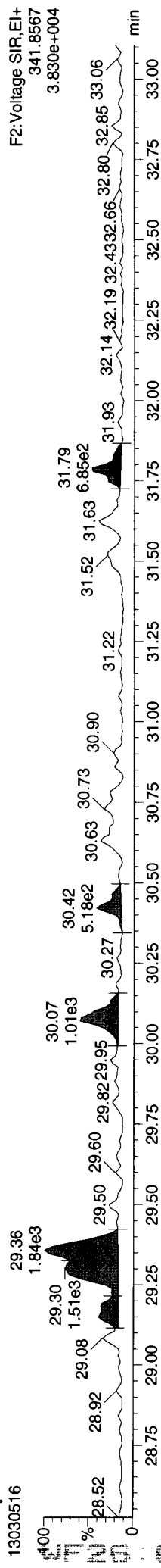
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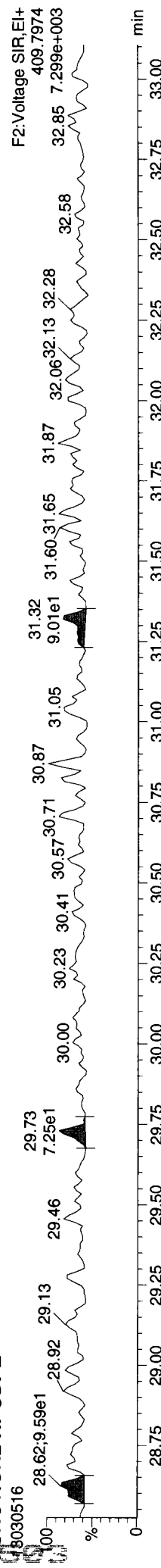
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Total-pentafurans



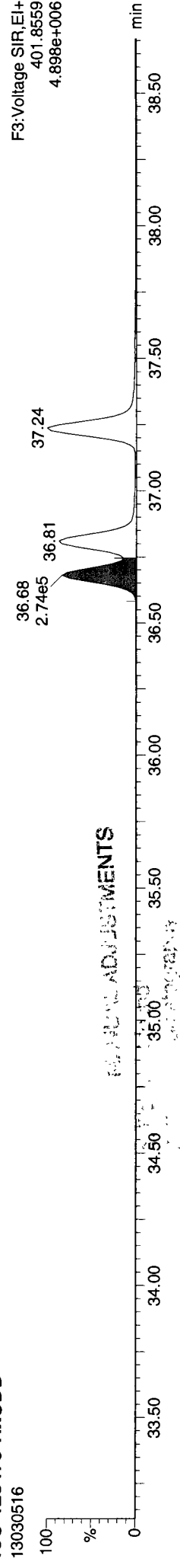
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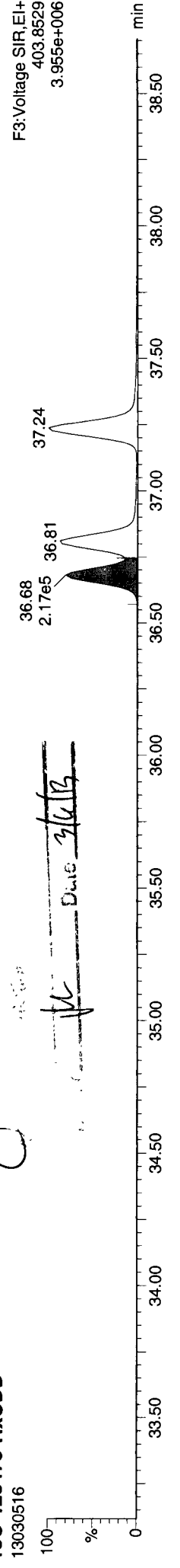
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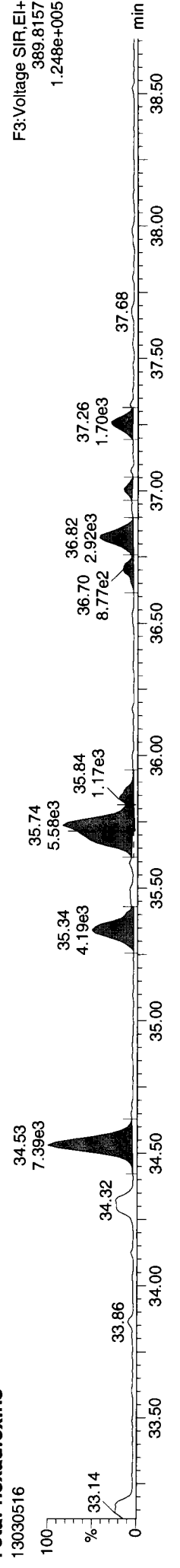
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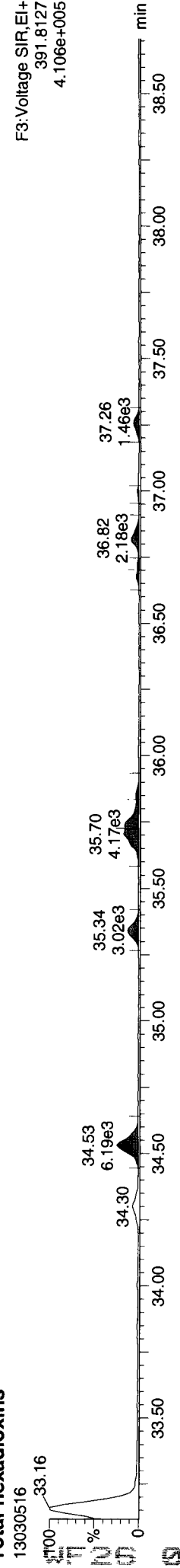
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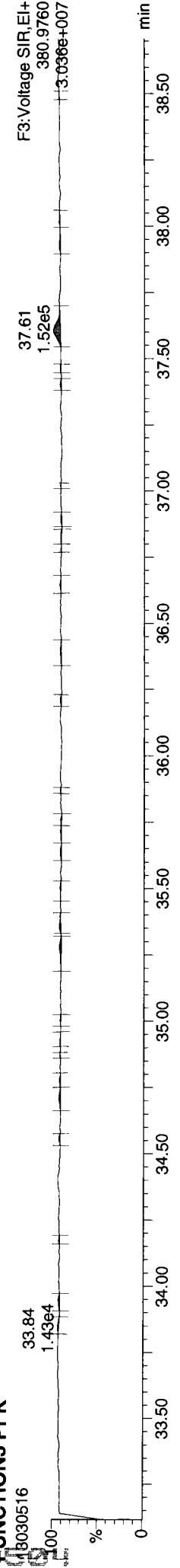
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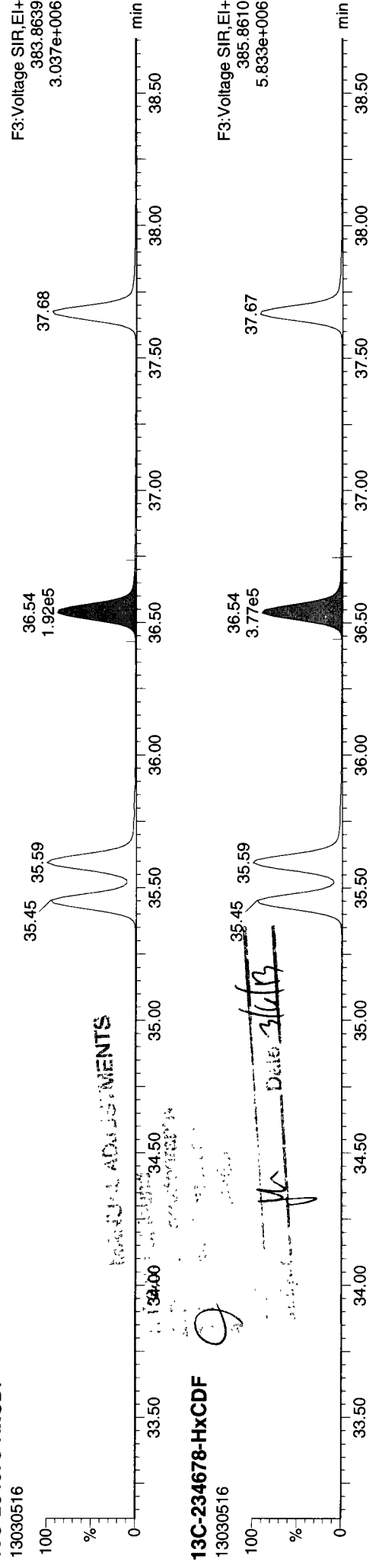
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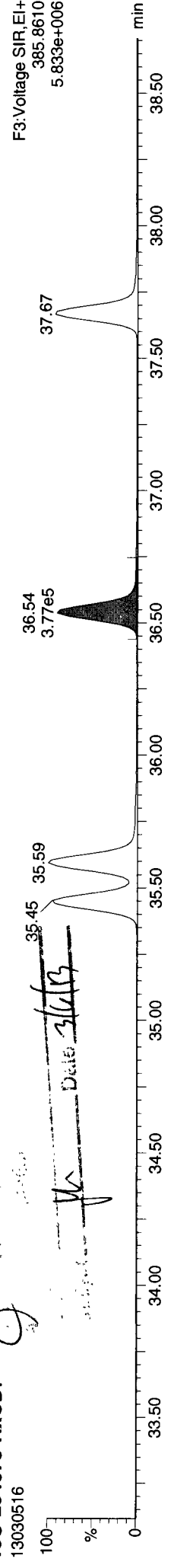
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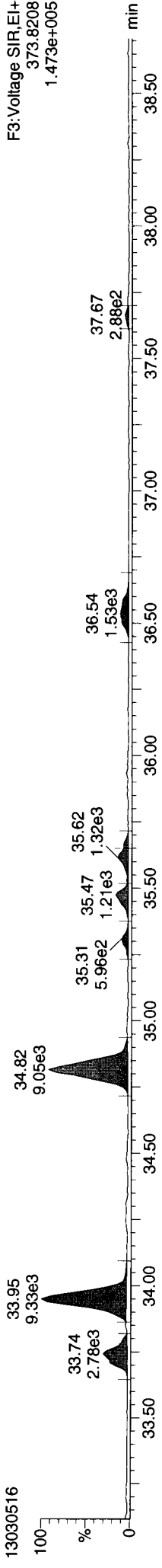
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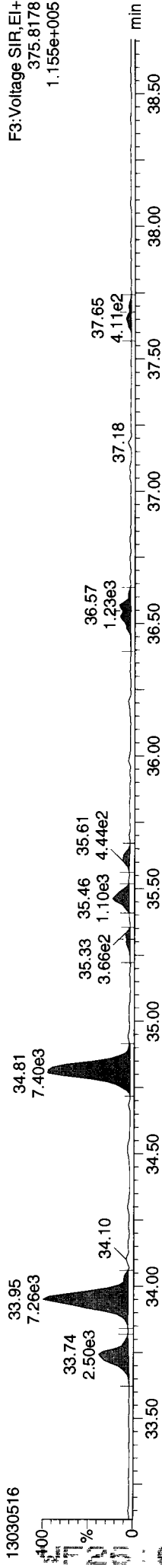
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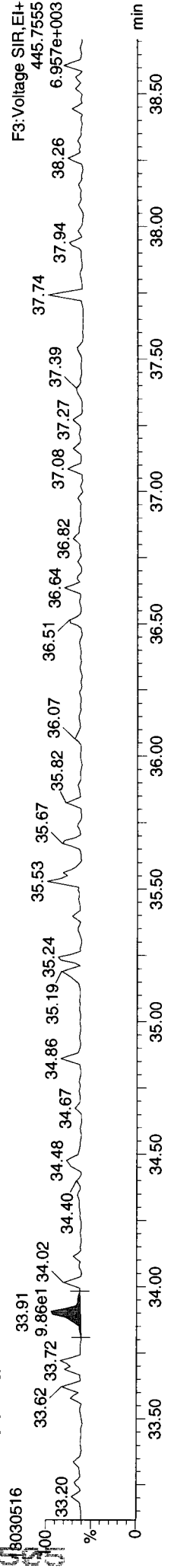
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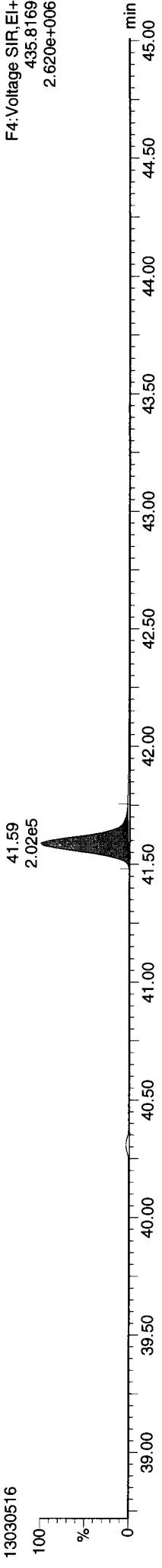
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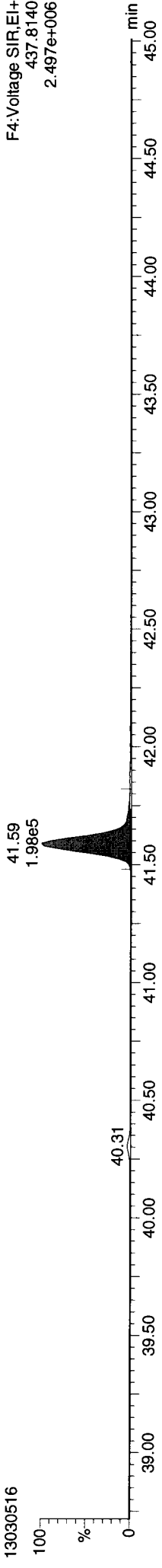
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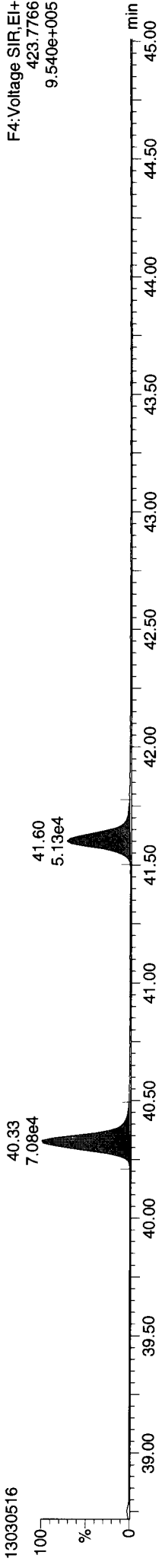
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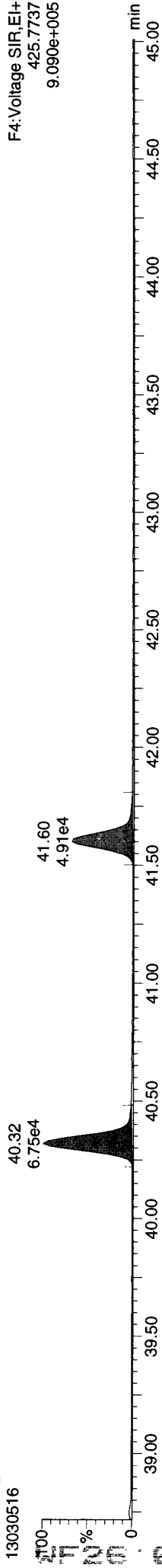
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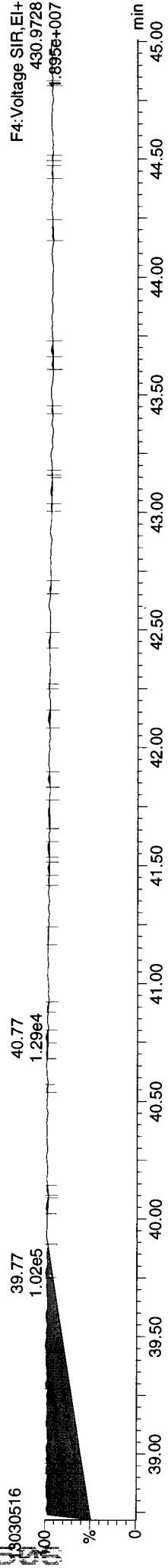
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Total-heptadioxins



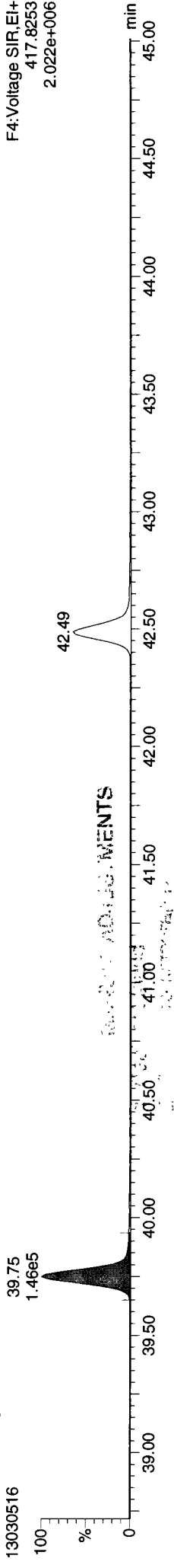
FUNCTION4 PFK



Quantify Sample Report  
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:29 Pacific Standard Time

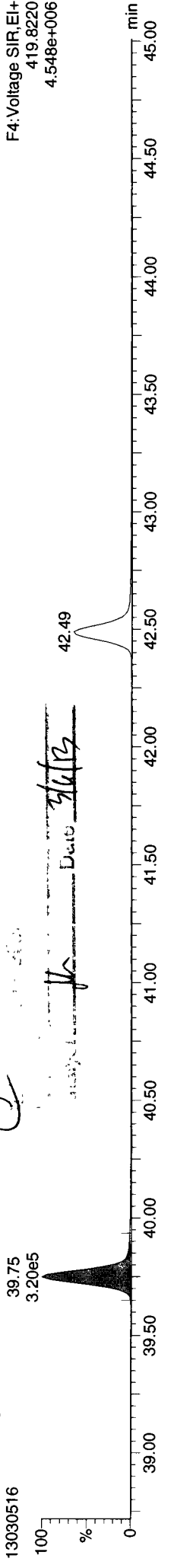
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13C-1234678-HpCDF



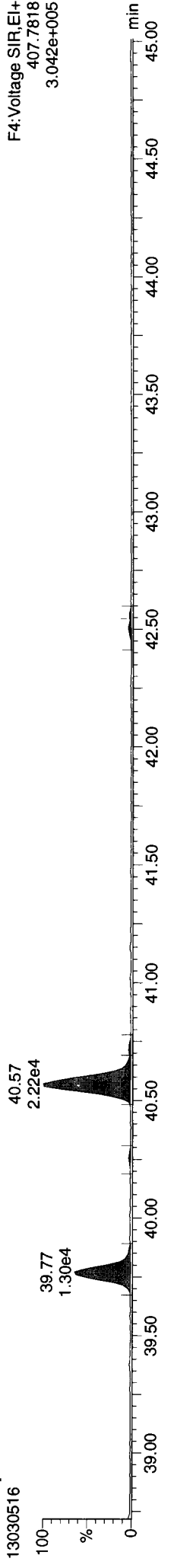
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13C-1234678-HpCDF



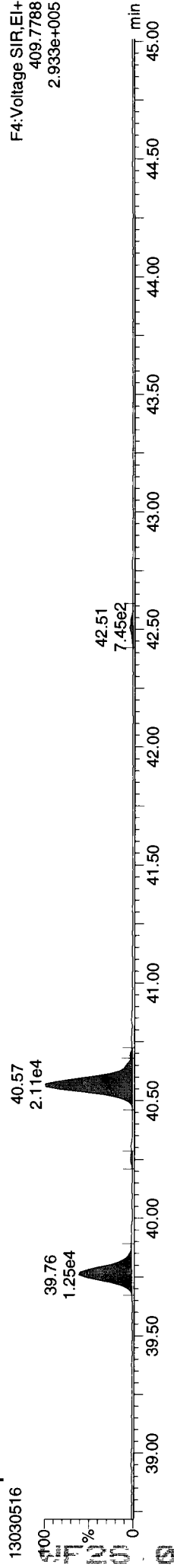
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Total-heptafurans



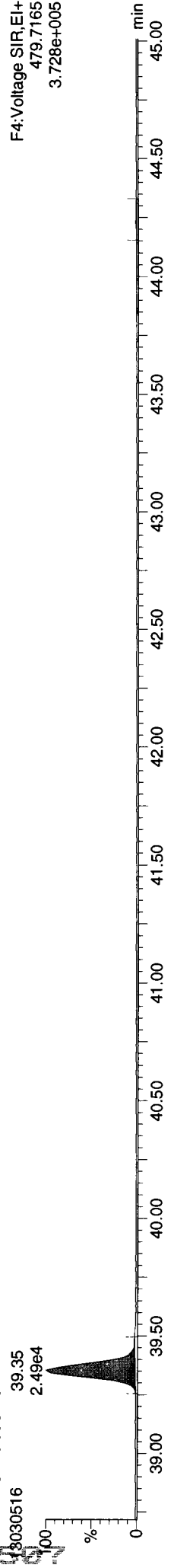
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Total-heptafurans



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FUNCTION4 NCDPE

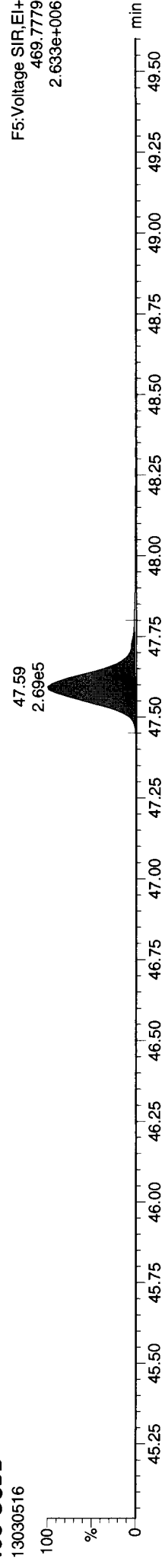


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3.728e+005

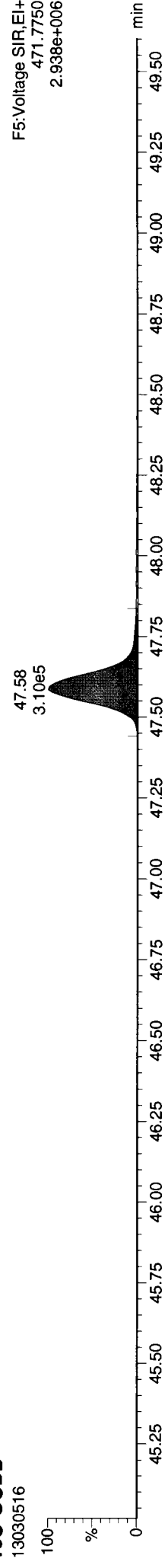
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:29 Pacific Standard Time

ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk

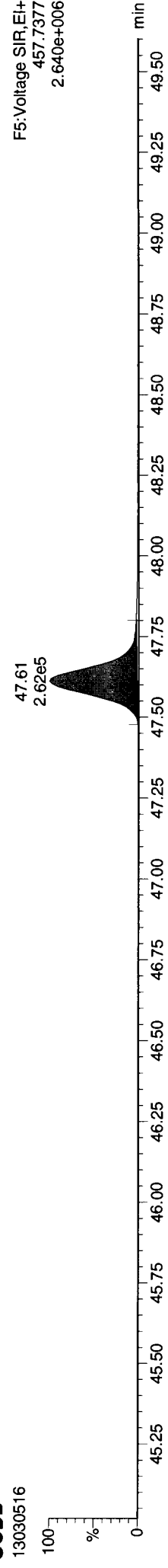
13C-OCDD  
13030516



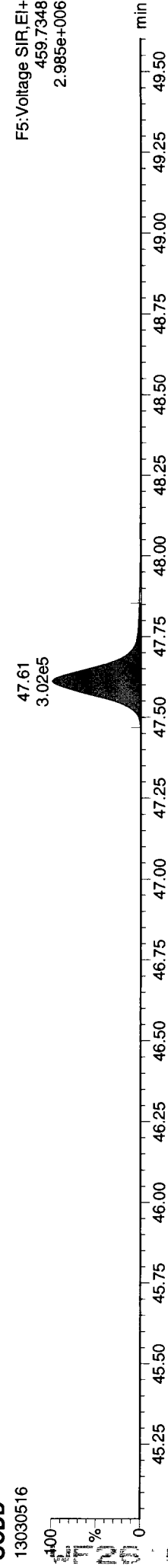
13C-OCDD  
13030516



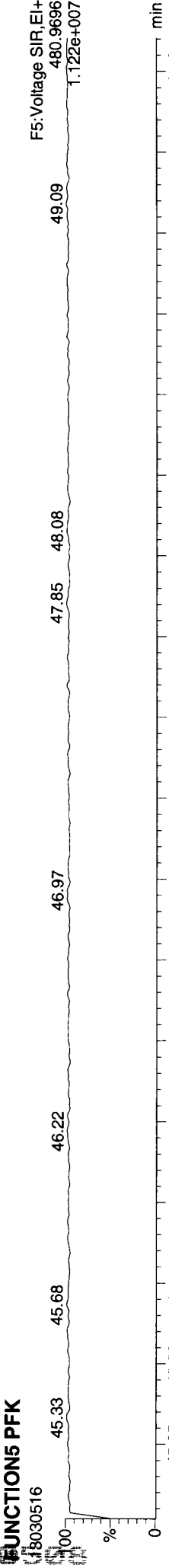
OCDD  
13030516



OCDD  
13030516



FUNCTION5 PFK  
13030516

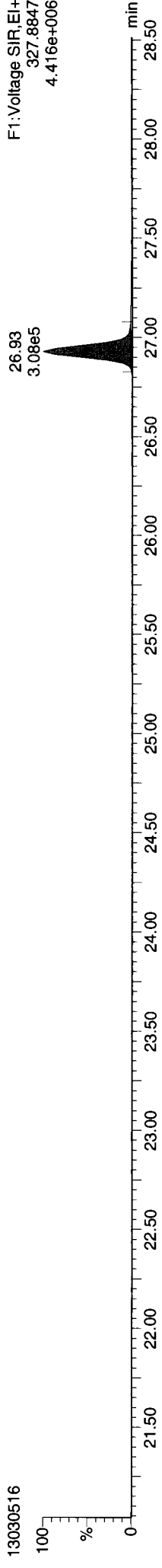




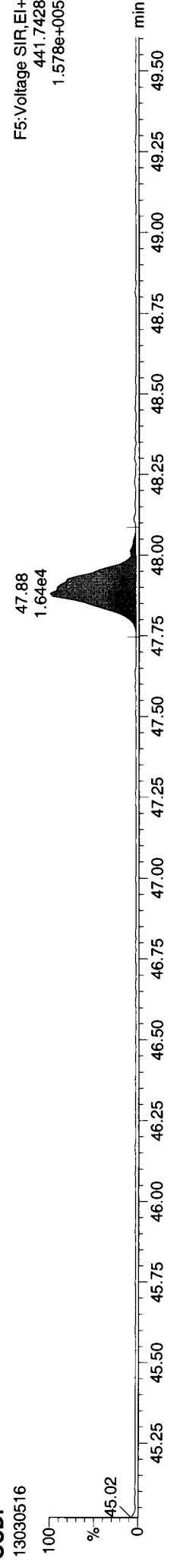
**Quantify Sample Report**      **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:26:29 Pacific Standard Time

**ID: WF26J, Name: 13030516, Date: 06-Mar-2013, Time: 00:59:06, Conditions: AUTOSPEC01, User: pk**

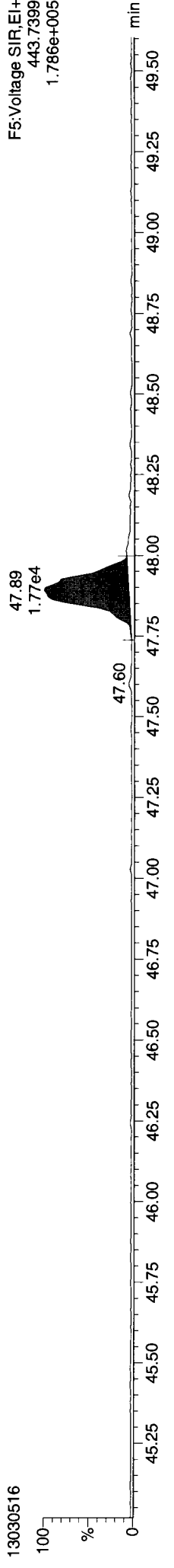
**37CL-2378-TCDD**



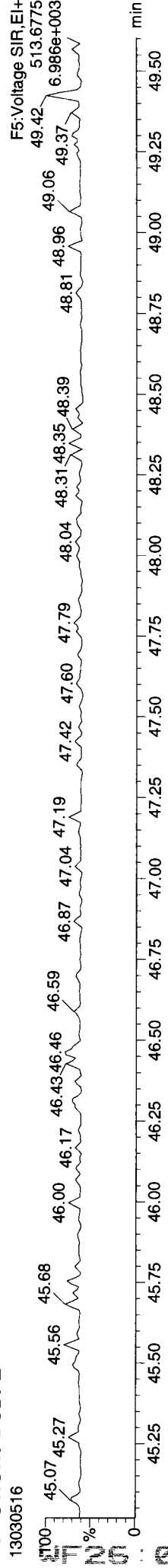
**OCDF**



**OCDF**



**FUNCTION5 DCDPE**



13030516

**ARI  
CDD/CDF EDL DATA  
HIGH RESOLUTION**

Lab.Sample ID: WF26K  
 Lab.File ID: 13030517  
 Date Analysed: 06-Mar-13

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	26.94	0.0517	0.0350	
12378-PeCDD	356/358	0.00			0.063
123478-HxCDD	390/392	0.00			0.059
123678-HxCDD	390/392	0.00			0.062
123789-HxCDD	390/392	0.00			0.064
1234678-HpCDD	424/426	41.60	0.854		
OCDD	458/460	47.61	9.58		
2378-TCDF	304/306	0.00			0.036
12378-PeCDF	340/342	0.00			0.061
23478-PeCDF	340/342	0.00			0.061
123478-HxCDF	374/376	0.00			0.048
234678-HxCDF	374/376	0.00			0.053
123678-HxCDF	374/376	0.00			0.048
123789-HxCDF	374/376	0.00			0.061
1234678-HpCDF	408/410	39.77	0.101	0.0790	
1234789-HpCDF	408/410	0.00			0.073
OCDF	442/444	0.00			0.17

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.



**Quantify Sample Summary Report** MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

**ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk**

	37.228	0.000	2.81e5	2.28e5	1.000	1.233	1.240	1881.0	2116	1989	3.98e6	3.24e6	NO	
13C-123789-HxCDD														100.000
Total-tetrafurans			3.00e2		0.921				785		6.68e3			0.101
Total-penta1			3.64e2						789		4.98e3			0.087
Total-pentafurans			0.00e0	0.927					1259		0.00e0			
Total-hexafurans			0.00e0	1.062					625		0.00e0			0.239
Total-heptafurans			6.62e2	1.231					631		1.39e4			0.427
Total-Furans			1.33e3	1.065					785		2.55e4			0.300
Total-tetradioxins			1.08e3	1.106					794		1.67e4			
Total-pentadioxins			0.00e0	1.001					1237		0.00e0			0.289
Total-hexadioxins			7.63e2	0.937					849		1.36e4			1.949
Total-heptadioxins			3.59e3	1.029					1210		5.06e4			12.122
Total-Dioxins			1.70e4	0.994					794		2.06e5			12.548
Total-TEQ			1.83e4						794		2.32e5			33.097
37CL-2378-TCDD	26.930	1.032	3.26e5	1.051				2326.0	1951		4.54e6			
FUNCTION1 PFK			2.04e5						341056		4.68e6			0.000
FUNCTION2 PFK			1.81e6						141382		1.04e7			0.000
FUNCTION3 PFK			3.06e5						244274		9.75e6			0.000
FUNCTION4 PFK			3.74e6						193023		1.96e7			
FUNCTION5 PFK			1.15e5						150723		4.13e6			
FUNCTION1 HXCDPE			1.55e2						575		2.77e3			0.000
FUNCTION1 HPCDPE			1.16e3						1005		2.47e4			0.000
FUNCTION2 HPCDPE			6.79e2						1067		1.75e4			0.000
FUNCTION3 OCDPE			0.00e0						509		0.00e0			0.000
FUNCTION4 NCDPE			7.23e2						618		1.39e4			0.000
FUNCTION5 DCDPE			0.00e0						388		0.00e0			0.000

11:26:51 AM 03/06/2013

Dataset: P:\DIOXIN8290.PRO\130305DATA2.gld
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Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211ICAL.cdb 12 Feb 2013 09:29:24

ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

TF

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Rows include 35 Total-tetrafurans with values like 303.9016, 24.11, 383.511, 0.921, 0.038, 0.40, 0.77, YES, 3.5.

PP

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Row includes 36 Total-penta1 with values like 339.8597, 27.69, 644.260, 0.087, 1.30, 1.55, YES, 6.3.

PF

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Row is empty.

HF

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Row is empty.

HPF

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Rows include 39 Total-heptafurans and 8 1234678-HpCDF with values like 407.7818, 40.57, 607.642, 1.231, 0.139, 1.32, 1.05, YES, 10.2.

Furans,TF,PP,PF,HF,HPF,OF

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Rows include 35 Total-tetrafurans, 39 Total-heptafurans, 8 1234678-HpCDF, and 36 Total-penta1.

TD

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Rows include 11 2378-TCDD and 41 Total-tetradoxins with values like 319.8965, 26.94, 421.362, 1.106, 0.052, 0.035, 0.42, 0.77, YES, 3.1.

PD

Table with 11 columns: Name, Trace, RT, Abs-Peak, ISTD, ISTD, EMPC, ISTD, ISTD, ISTD, SA. Row is empty.

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

HD

43	Total-hexadioxins	389.8157	35.75	477.975	0.937	0.103	0.57	1.24	YES	3.9
43	Total-hexadioxins	389.8157	34.53	869.981	0.937	0.187	2.11	1.24	YES	12.1

HPD

44	Total-heptadioxins	423.7766	40.33	4024.064	1.029	1.095	1.05	1.05	NO	22.2	
16	1234678-HpCDD	423.7766	41.60	3135.990	1.029	0.854	0.854	0.96	1.05	NO	19.7

Dioxins,TD,PD,HD,HPD,OD

11	2378-TCDD	319.8965	26.94	421.362	1.106	0.052	0.035	0.42	0.77	YES	3.1
41	Total-tetradoxins	319.8965	25.05	2023.602	1.106	0.248	0.90	0.77	YES	18.0	
43	Total-hexadioxins	389.8157	35.75	477.975	0.937	0.103	0.57	1.24	YES	3.9	
43	Total-hexadioxins	389.8157	34.53	869.981	0.937	0.187	2.11	1.24	YES	12.1	
44	Total-heptadioxins	423.7766	40.33	4024.064	1.029	1.095	1.05	1.05	NO	22.2	
16	1234678-HpCDD	423.7766	41.60	3135.990	1.029	0.854	0.854	0.96	1.05	NO	19.7
17	OCDD	457.7377	47.61	25176.511	1.011	9.584	9.584	0.84	0.89	NO	165.1

TotalTEQ,Furans,Dioxins

35	Total-tetrafurans	303.9016	24.11	383.511	0.921	0.038	0.40	0.77	YES	3.5	
35	Total-tetrafurans	303.9016	23.64	639.763	0.921	0.063	0.42	0.77	YES	5.0	
39	Total-heptafurans	407.7818	40.57	607.642	1.231	0.139	1.32	1.05	YES	10.2	
8	1234678-HpCDF	407.7818	39.77	509.946	1.238	0.101	0.079	1.62	1.05	YES	11.7
36	Total-penta1	339.8597	27.69	644.260	0.087	1.30	1.55	YES	6.3		
11	2378-TCDD	319.8965	26.94	421.362	1.106	0.052	0.035	0.42	0.77	YES	3.1
41	Total-tetradoxins	319.8965	25.05	2023.602	1.106	0.248	0.90	0.77	YES	18.0	
43	Total-hexadioxins	389.8157	35.75	477.975	0.937	0.103	0.57	1.24	YES	3.9	
43	Total-hexadioxins	389.8157	34.53	869.981	0.937	0.187	2.11	1.24	YES	12.1	
44	Total-heptadioxins	423.7766	40.33	4024.064	1.029	1.095	1.05	1.05	NO	22.2	
16	1234678-HpCDD	423.7766	41.60	3135.990	1.029	0.854	0.854	0.96	1.05	NO	19.7
17	OCDD	457.7377	47.61	25176.511	1.011	9.584	9.584	0.84	0.89	NO	165.1

PFK1

48	FUNCTION1 PFK	330.9792	27.83	0.000							2.0
48	FUNCTION1 PFK	330.9792	27.02	0.000							1.0
48	FUNCTION1 PFK	330.9792	26.78	0.000							2.2
48	FUNCTION1 PFK	330.9792	25.57	0.000							1.3
48	FUNCTION1 PFK	330.9792	24.88	0.000							1.5
48	FUNCTION1 PFK	330.9792	24.36	0.000							1.3
48	FUNCTION1 PFK	330.9792	23.87	0.000							1.7
48	FUNCTION1 PFK	330.9792	23.48	0.000							0.8
48	FUNCTION1 PFK	330.9792	21.63	0.000							1.0
48	FUNCTION1 PFK	330.9792	21.25	0.000							0.9

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PFK2

49	FUNCTION2 PFK	366.9792	31.90	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	31.69	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	31.60	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	31.39	0.000	0.000	2.6
49	FUNCTION2 PFK	366.9792	31.26	0.000	0.000	1.0
49	FUNCTION2 PFK	366.9792	31.12	0.000	0.000	1.1
49	FUNCTION2 PFK	366.9792	30.88	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	30.62	0.000	0.000	0.9
49	FUNCTION2 PFK	366.9792	30.53	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	30.42	0.000	0.000	1.4
49	FUNCTION2 PFK	366.9792	30.08	0.000	0.000	1.0
49	FUNCTION2 PFK	366.9792	29.39	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	29.23	0.000	0.000	4.3
49	FUNCTION2 PFK	366.9792	29.05	0.000	0.000	11.2
49	FUNCTION2 PFK	366.9792	28.92	0.000	0.000	16.7
49	FUNCTION2 PFK	366.9792	28.83	0.000	0.000	19.9
49	FUNCTION2 PFK	366.9792	33.06	0.000	0.000	0.7
49	FUNCTION2 PFK	366.9792	33.03	0.000	0.000	0.7
49	FUNCTION2 PFK	366.9792	32.47	0.000	0.000	0.4
49	FUNCTION2 PFK	366.9792	32.43	0.000	0.000	1.2
49	FUNCTION2 PFK	366.9792	32.38	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	32.23	0.000	0.000	1.3
49	FUNCTION2 PFK	366.9792	32.09	0.000	0.000	0.6
49	FUNCTION2 PFK	366.9792	32.02	0.000	0.000	1.0

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PFK3

Retention Time (min)	Area	Height	Width	Integration	Concentration (ppb)	Response	Signal-to-Noise
50	FUNCTION3 PFK	380.9760	34.22	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	34.02	0.000	0.000		1.0
50	FUNCTION3 PFK	380.9760	33.96	0.000	0.000		1.9
50	FUNCTION3 PFK	380.9760	33.80	0.000	0.000		0.4
50	FUNCTION3 PFK	380.9760	33.64	0.000	0.000		2.0
50	FUNCTION3 PFK	380.9760	33.53	0.000	0.000		1.0
50	FUNCTION3 PFK	380.9760	33.41	0.000	0.000		0.4
50	FUNCTION3 PFK	380.9760	37.11	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	36.96	0.000	0.000		1.3
50	FUNCTION3 PFK	380.9760	36.92	0.000	0.000		0.6
50	FUNCTION3 PFK	380.9760	36.60	0.000	0.000		1.6
50	FUNCTION3 PFK	380.9760	36.52	0.000	0.000		2.7
50	FUNCTION3 PFK	380.9760	36.32	0.000	0.000		0.7
50	FUNCTION3 PFK	380.9760	36.27	0.000	0.000		0.6
50	FUNCTION3 PFK	380.9760	36.16	0.000	0.000		2.8
50	FUNCTION3 PFK	380.9760	36.11	0.000	0.000		1.2
50	FUNCTION3 PFK	380.9760	36.03	0.000	0.000		0.5
50	FUNCTION3 PFK	380.9760	35.91	0.000	0.000		1.7
50	FUNCTION3 PFK	380.9760	35.38	0.000	0.000		0.5
50	FUNCTION3 PFK	380.9760	35.06	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	34.97	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	34.91	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	34.45	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	38.58	0.000	0.000		1.3
50	FUNCTION3 PFK	380.9760	38.31	0.000	0.000		0.9
50	FUNCTION3 PFK	380.9760	38.05	0.000	0.000		0.8
50	FUNCTION3 PFK	380.9760	37.99	0.000	0.000		1.4
50	FUNCTION3 PFK	380.9760	37.83	0.000	0.000		1.0
50	FUNCTION3 PFK	380.9760	37.60	0.000	0.000		1.9
50	FUNCTION3 PFK	380.9760	37.38	0.000	0.000		1.3
50	FUNCTION3 PFK	380.9760	37.33	0.000	0.000		1.5
50	FUNCTION3 PFK	380.9760	37.18	0.000	0.000		0.4



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PFK4

Peak #	Retention Time (min)	Area	Height	Width	SN
51	FUNCTION4 PFK	430.9728	40.18	0.000	1.1
51	FUNCTION4 PFK	430.9728	40.03	0.000	1.9
51	FUNCTION4 PFK	430.9728	39.89	0.000	0.9
51	FUNCTION4 PFK	430.9728	39.64	0.000	0.5
51	FUNCTION4 PFK	430.9728	39.20	0.000	19.3
51	FUNCTION4 PFK	430.9728	38.81	0.000	42.5
51	FUNCTION4 PFK	430.9728	42.31	0.000	0.4
51	FUNCTION4 PFK	430.9728	42.25	0.000	0.6
51	FUNCTION4 PFK	430.9728	42.12	0.000	0.7
51	FUNCTION4 PFK	430.9728	41.95	0.000	1.8
51	FUNCTION4 PFK	430.9728	41.89	0.000	0.5
51	FUNCTION4 PFK	430.9728	41.61	0.000	1.2
51	FUNCTION4 PFK	430.9728	41.48	0.000	0.4
51	FUNCTION4 PFK	430.9728	41.26	0.000	2.2
51	FUNCTION4 PFK	430.9728	41.17	0.000	2.1
51	FUNCTION4 PFK	430.9728	41.05	0.000	1.1
51	FUNCTION4 PFK	430.9728	40.94	0.000	0.4
51	FUNCTION4 PFK	430.9728	40.71	0.000	1.5
51	FUNCTION4 PFK	430.9728	40.61	0.000	1.2
51	FUNCTION4 PFK	430.9728	40.53	0.000	0.4
51	FUNCTION4 PFK	430.9728	40.43	0.000	1.8
51	FUNCTION4 PFK	430.9728	40.37	0.000	1.3
51	FUNCTION4 PFK	430.9728	44.85	0.000	1.3
51	FUNCTION4 PFK	430.9728	44.54	0.000	1.3
51	FUNCTION4 PFK	430.9728	44.49	0.000	1.6
51	FUNCTION4 PFK	430.9728	44.43	0.000	1.0
51	FUNCTION4 PFK	430.9728	43.95	0.000	1.0
51	FUNCTION4 PFK	430.9728	43.14	0.000	1.5
51	FUNCTION4 PFK	430.9728	42.92	0.000	2.1
51	FUNCTION4 PFK	430.9728	42.69	0.000	0.5
51	FUNCTION4 PFK	430.9728	42.61	0.000	1.1
51	FUNCTION4 PFK	430.9728	42.52	0.000	2.4
51	FUNCTION4 PFK	430.9728	42.46	0.000	1.3
51	FUNCTION4 PFK	430.9728	42.39	0.000	1.6
51	FUNCTION4 PFK	430.9728	42.36	0.000	1.5

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PFK5

#	Name	Time	RT	Abn	RF	EMPC	1st Ret	2nd Ret	3rd Ret	SN
52	FUNCTION5 PFK	480.9696	45.62	0.000						1.1
52	FUNCTION5 PFK	480.9696	45.08	0.000						1.2
52	FUNCTION5 PFK	480.9696	48.80	0.000						1.5
52	FUNCTION5 PFK	480.9696	48.74	0.000						0.5
52	FUNCTION5 PFK	480.9696	48.36	0.000						1.7
52	FUNCTION5 PFK	480.9696	48.23	0.000						1.5
52	FUNCTION5 PFK	480.9696	48.19	0.000						1.0
52	FUNCTION5 PFK	480.9696	48.05	0.000						1.4
52	FUNCTION5 PFK	480.9696	47.95	0.000						1.3
52	FUNCTION5 PFK	480.9696	47.49	0.000						0.9
52	FUNCTION5 PFK	480.9696	47.38	0.000						2.2
52	FUNCTION5 PFK	480.9696	47.12	0.000						1.5
52	FUNCTION5 PFK	480.9696	46.90	0.000						1.4
52	FUNCTION5 PFK	480.9696	46.79	0.000						1.5
52	FUNCTION5 PFK	480.9696	46.71	0.000						2.2
52	FUNCTION5 PFK	480.9696	46.65	0.000						1.1
52	FUNCTION5 PFK	480.9696	46.49	0.000						1.7
52	FUNCTION5 PFK	480.9696	46.44	0.000						1.3
52	FUNCTION5 PFK	480.9696	49.37	0.000						1.1
52	FUNCTION5 PFK	480.9696	49.17	0.000						1.3

ETHERS1

#	Name	Time	RT	Abn	RF	EMPC	1st Ret	2nd Ret	3rd Ret	SN
53	FUNCTION1 HXCD...	375.8364	24.81	0.000		0.000				2.0
53	FUNCTION1 HXCD...	375.8364	23.33	0.000		0.000				2.8

ETHERS2

#	Name	Time	RT	Abn	RF	EMPC	1st Ret	2nd Ret	3rd Ret	SN
54	FUNCTION1 HPCD...	409.7974	25.41	0.000		0.000				1.2
54	FUNCTION1 HPCD...	409.7974	25.33	0.000		0.000				2.5
54	FUNCTION1 HPCD...	409.7974	24.55	0.000		0.000				3.1
54	FUNCTION1 HPCD...	409.7974	24.33	0.000		0.000				1.6
54	FUNCTION1 HPCD...	409.7974	24.14	0.000		0.000				1.6
54	FUNCTION1 HPCD...	409.7974	23.19	0.000		0.000				2.3
54	FUNCTION1 HPCD...	409.7974	22.18	0.000		0.000				1.4
54	FUNCTION1 HPCD...	409.7974	22.03	0.000		0.000				1.2
54	FUNCTION1 HPCD...	409.7974	21.54	0.000		0.000				1.3
54	FUNCTION1 HPCD...	409.7974	21.21	0.000		0.000				3.0
54	FUNCTION1 HPCD...	409.7974	28.27	0.000		0.000				1.9
54	FUNCTION1 HPCD...	409.7974	27.39	0.000		0.000				1.1
54	FUNCTION1 HPCD...	409.7974	27.15	0.000		0.000				2.4

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

D: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

ETHERS3

Name	RT	Area	Height	Area%	Height%	SN
55 FUNCTION2 HPCD...	409.7974	32.36	0.000	0.000		3.2
55 FUNCTION2 HPCD...	409.7974	32.22	0.000	0.000		2.1
55 FUNCTION2 HPCD...	409.7974	31.96	0.000	0.000		3.1
55 FUNCTION2 HPCD...	409.7974	30.65	0.000	0.000		2.2
55 FUNCTION2 HPCD...	409.7974	29.54	0.000	0.000		1.3
55 FUNCTION2 HPCD...	409.7974	29.32	0.000	0.000		1.2
55 FUNCTION2 HPCD...	409.7974	28.96	0.000	0.000		3.2

ETHERS4

Name	RT	Area	Height	Area%	Height%	SN

ETHERS5

Name	RT	Area	Height	Area%	Height%	SN
57 FUNCTION4 NCDPE	479.7165	43.85	0.000	0.000		8.2
57 FUNCTION4 NCDPE	479.7165	41.82	0.000	0.000		2.4
57 FUNCTION4 NCDPE	479.7165	39.35	0.000	0.000		11.8

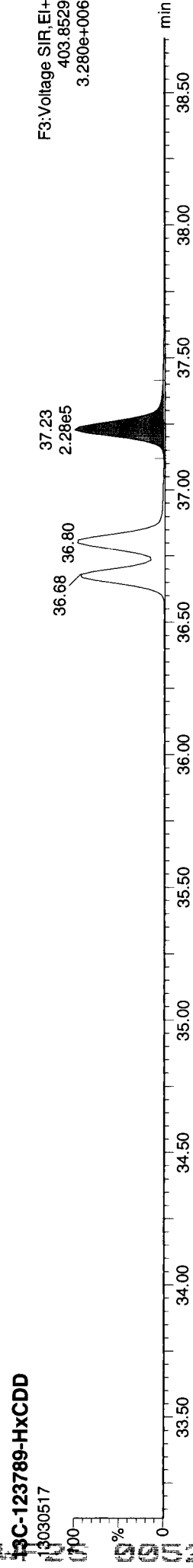
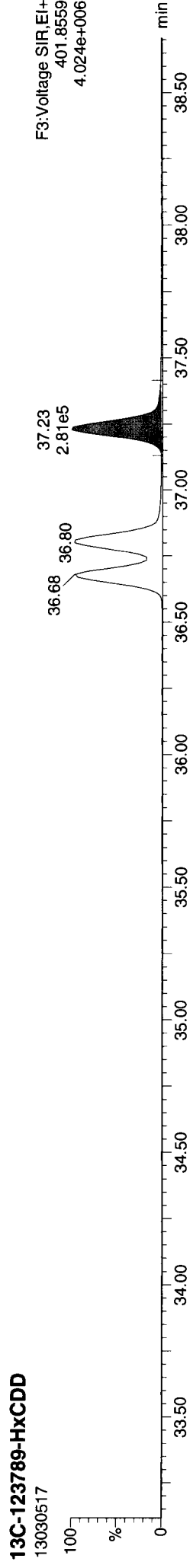
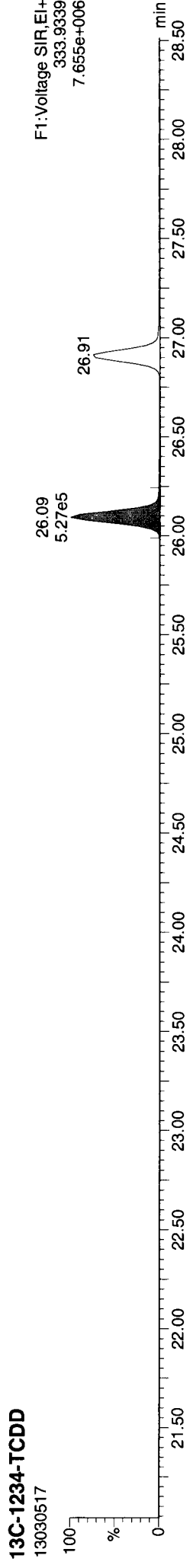
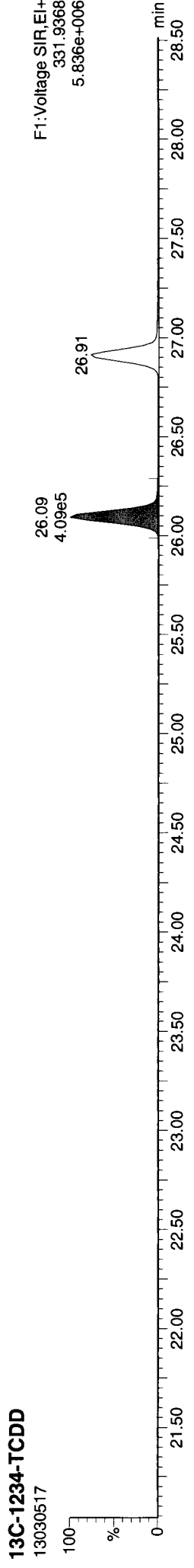
ETHERS6

Name	RT	Area	Height	Area%	Height%	SN

**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

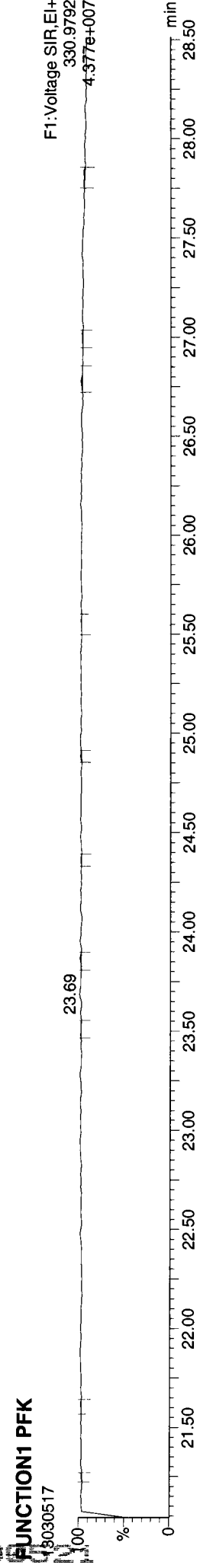
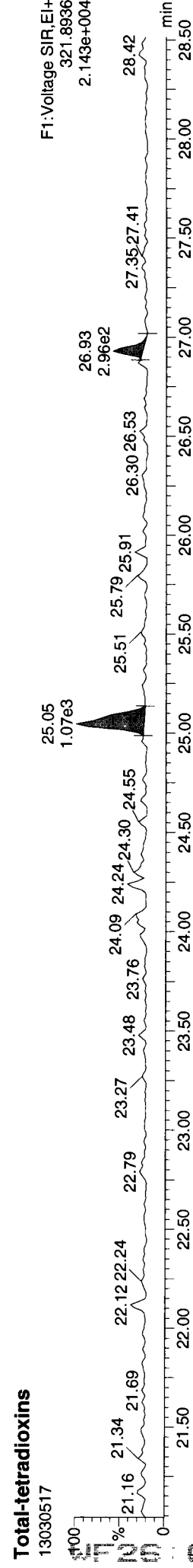
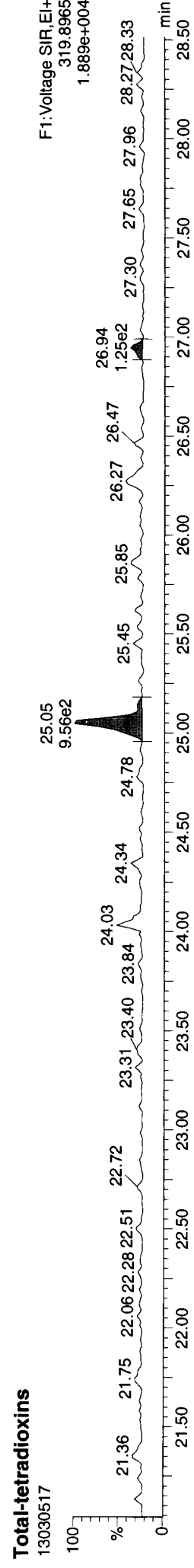
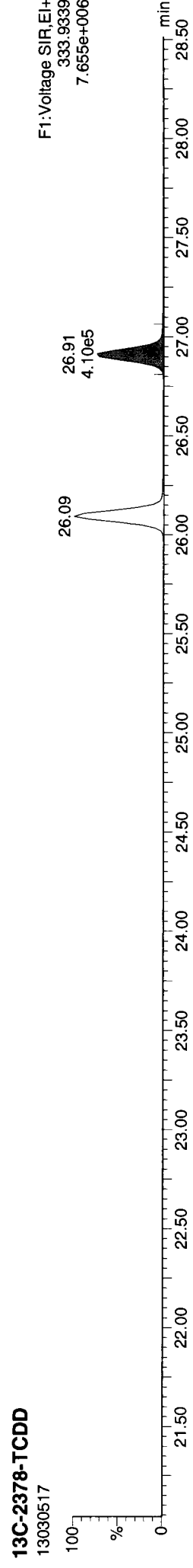
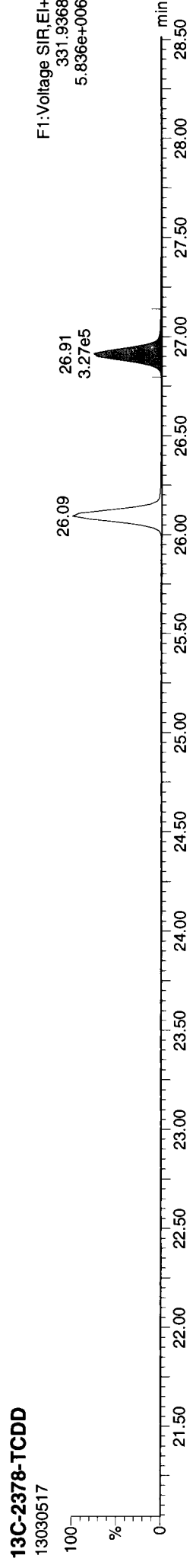
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**ID:** WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

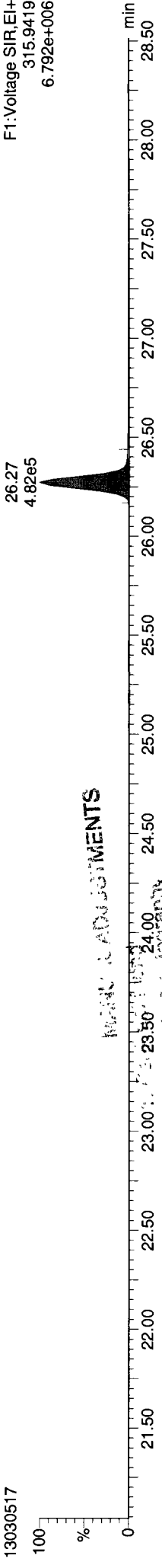
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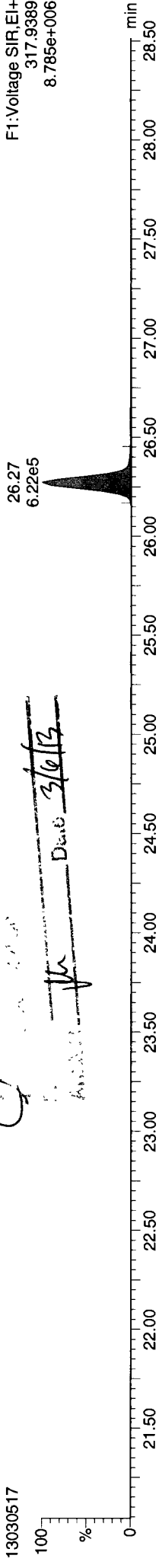
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MassLynx 4.1 SCN 714  
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

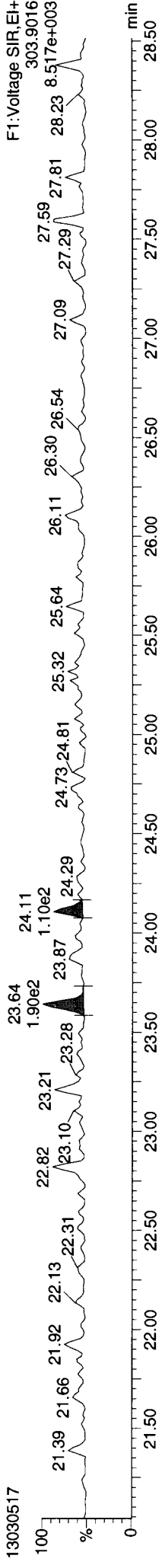
13C-2378-TCDF



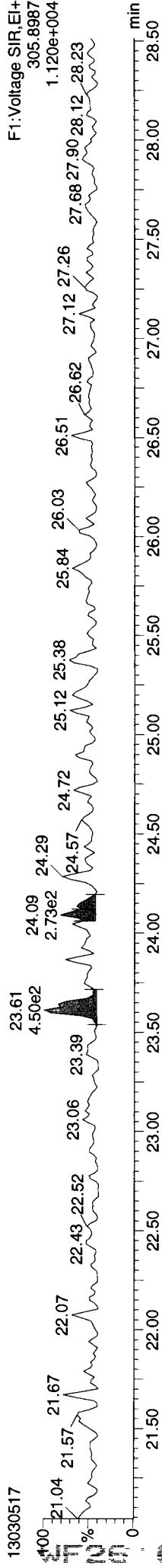
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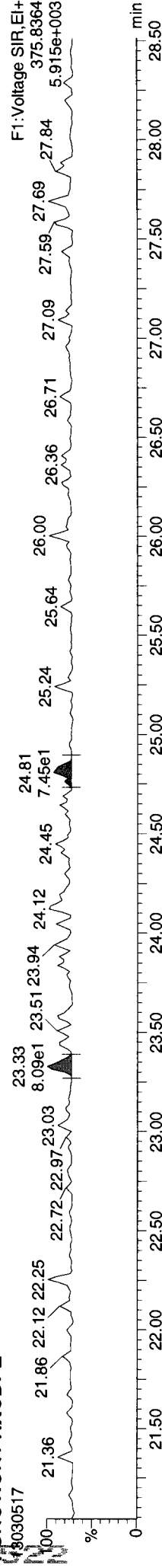
Total-tetrafurans



Total-tetrafurans



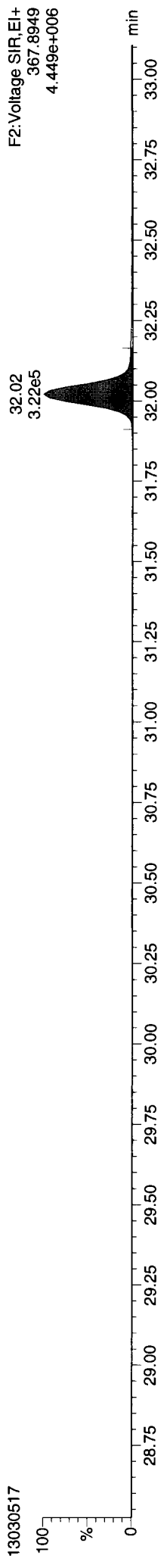
FUNCTION1 HXCDPE



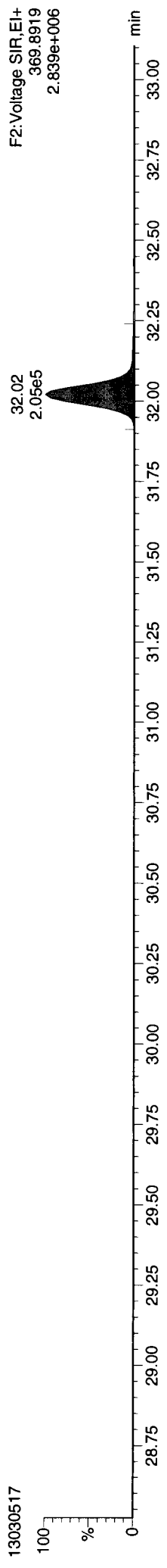
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Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

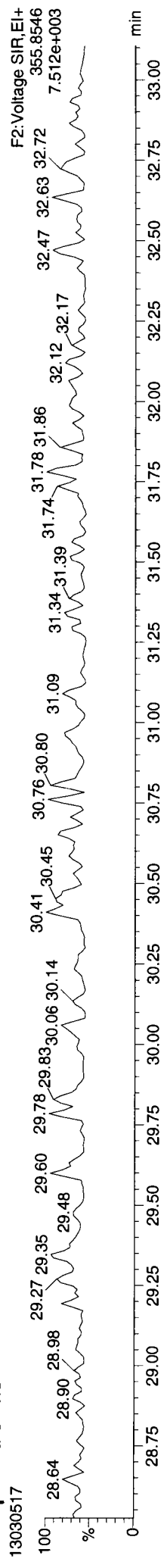
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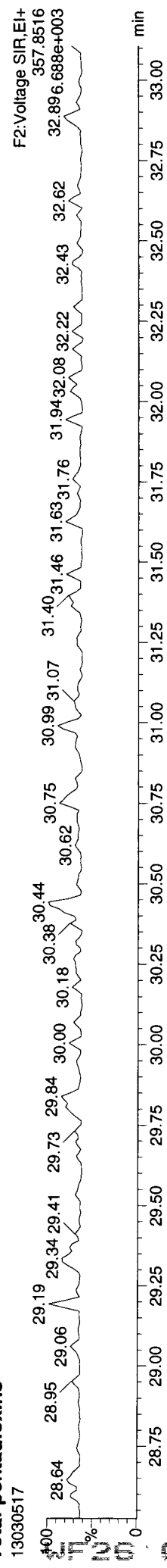
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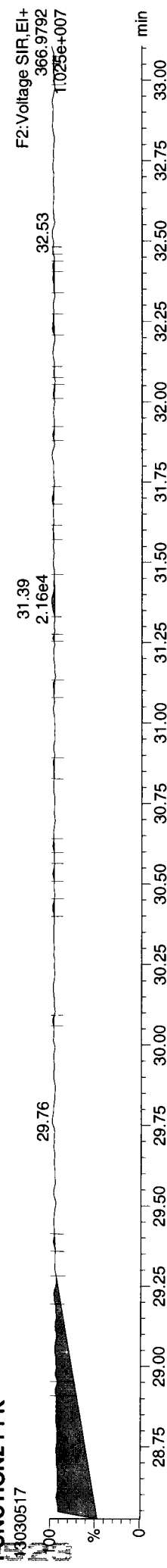
**Total-pentadioxins**



**Total-pentadioxins**



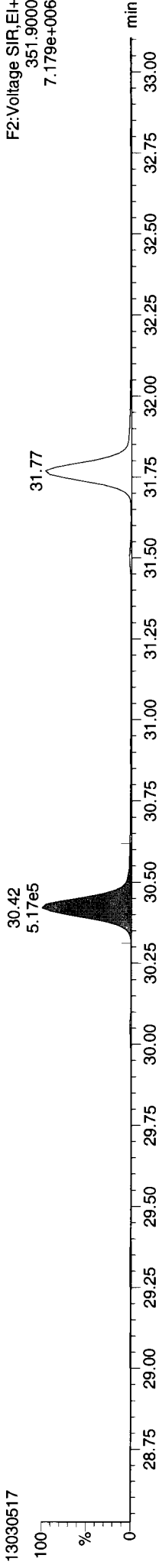
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

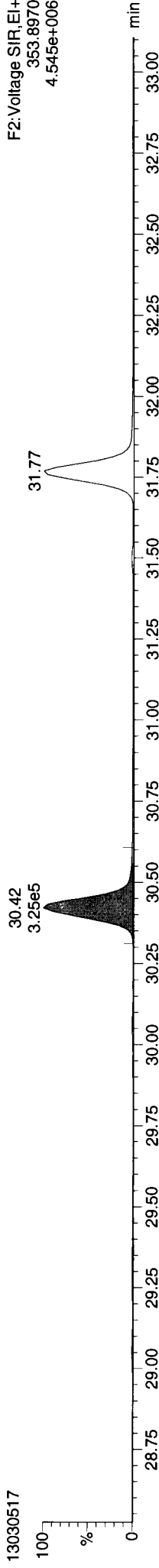
13C-12378-PeCDF

13030517



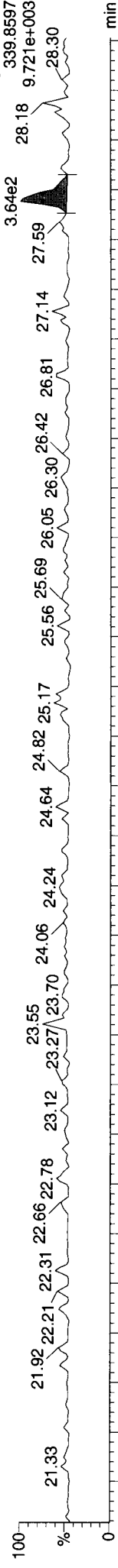
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13030517



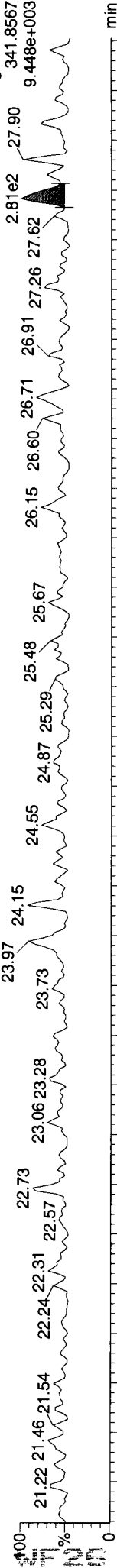
Total-penta1

13030517



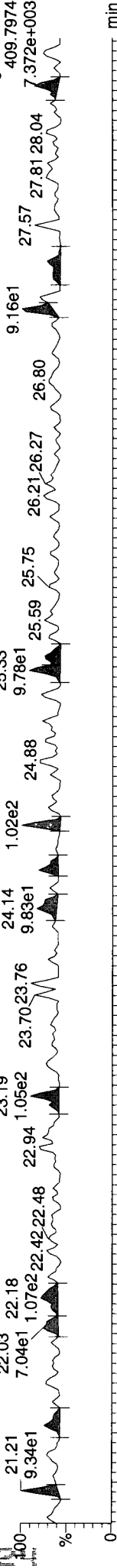
Total-penta1

13030517



FUNCTION1 HPCDPE

13030517

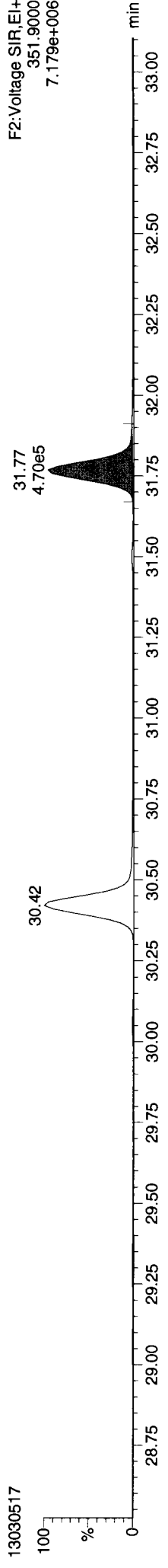




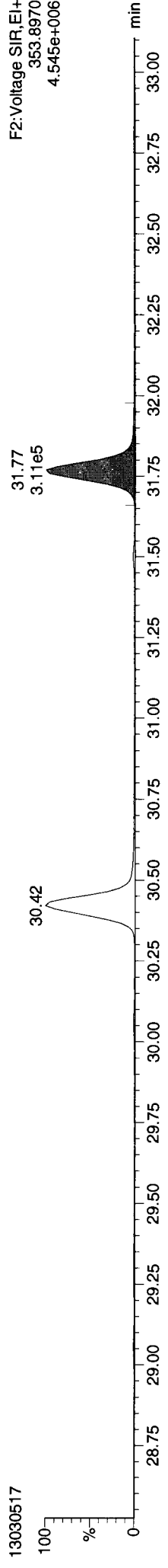
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

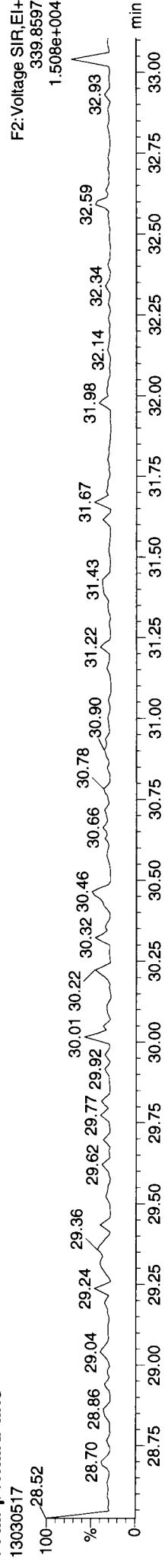
13C-23478-PeCDF



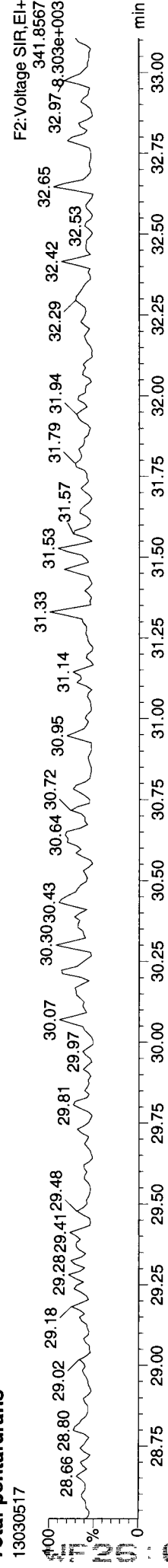
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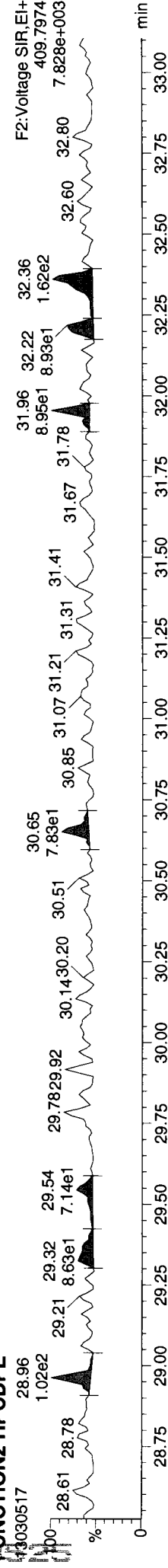
Total-pentafurans



Total-pentafurans



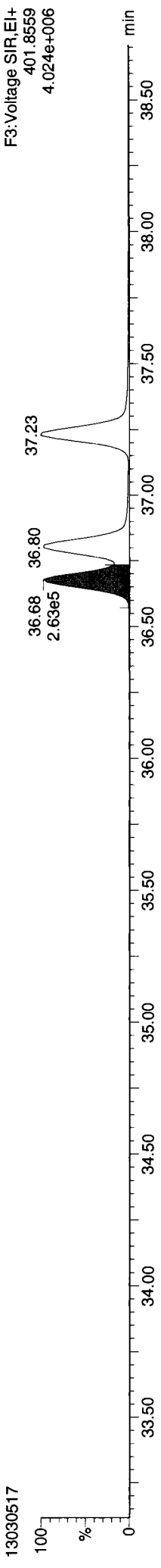
FUNCTION2 HPCDPE



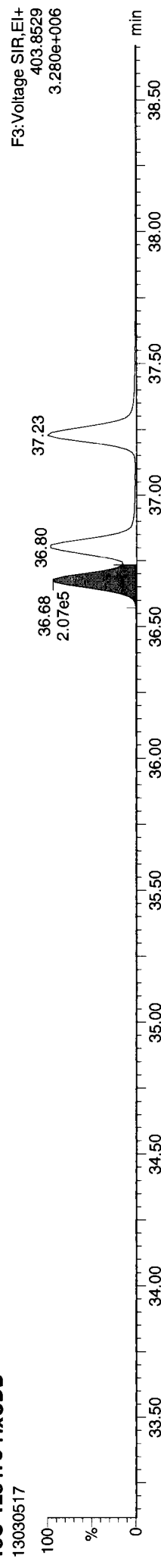
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

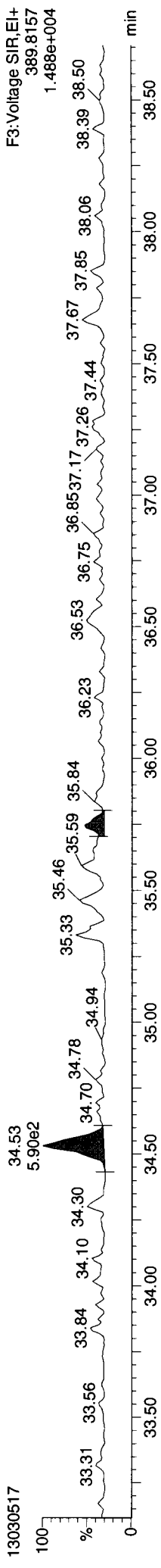
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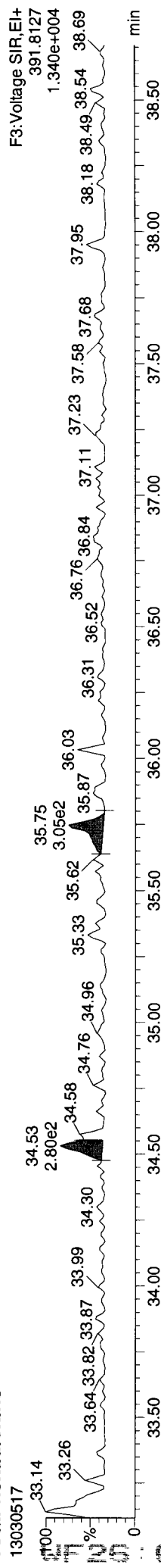
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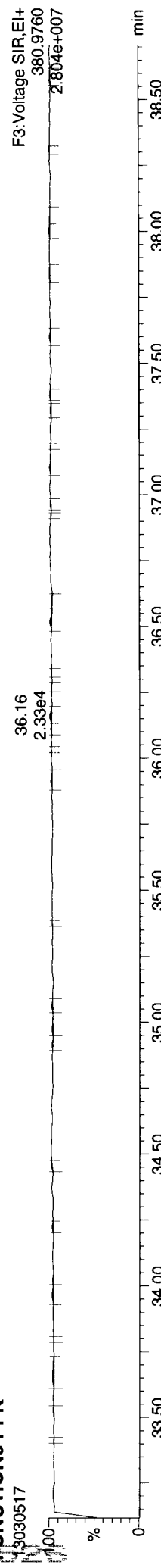
Total-hexadioxins



Total-hexadioxins



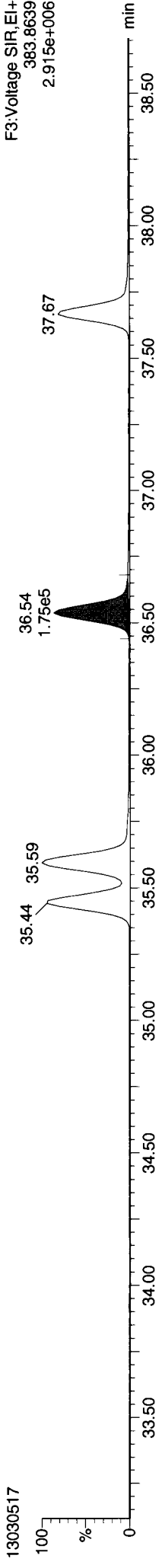
FUNCTION3 PFK



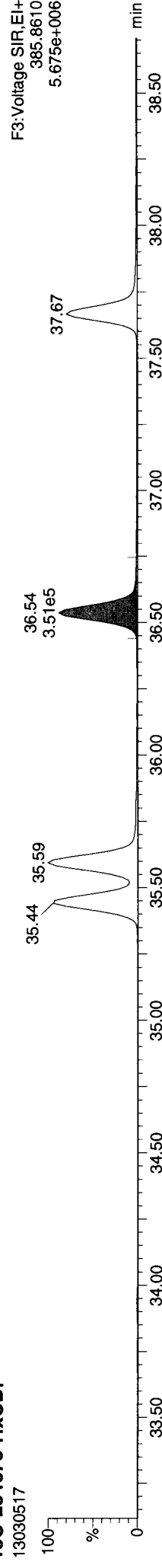
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

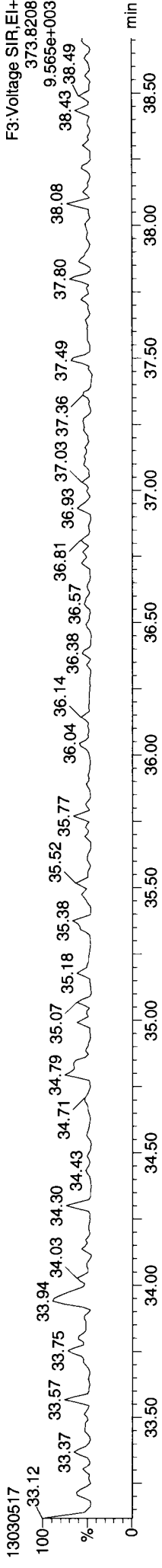
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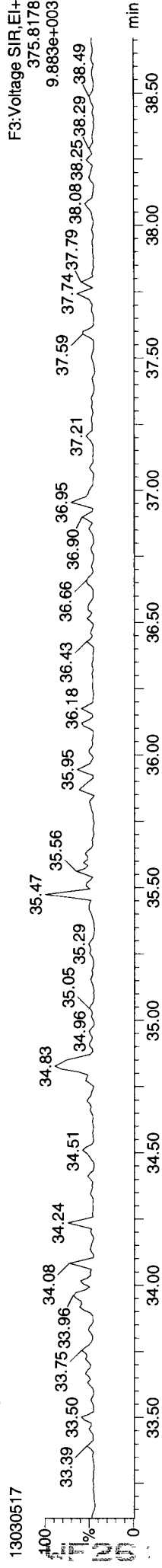
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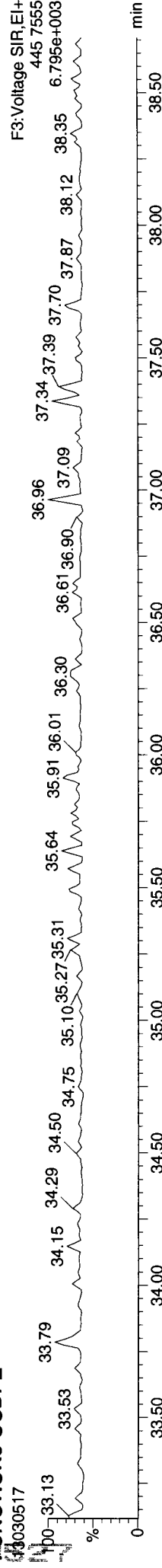
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Total-hexafurans



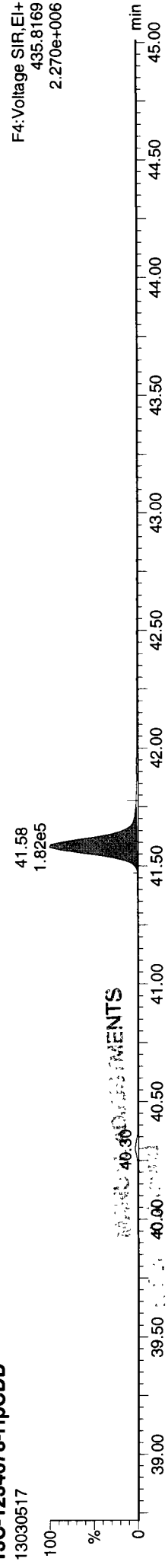
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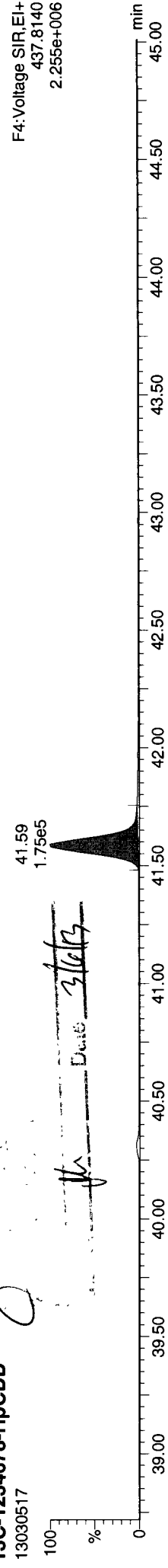
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

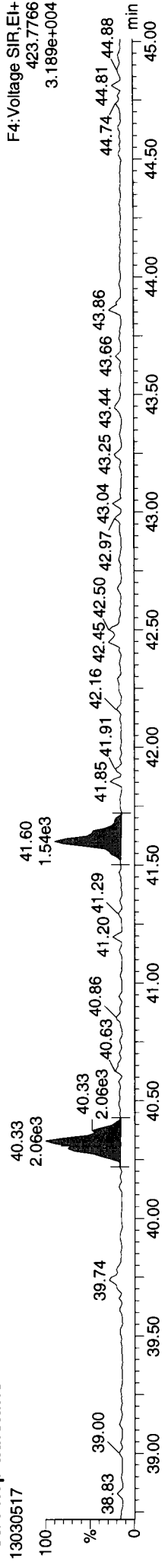
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13030517



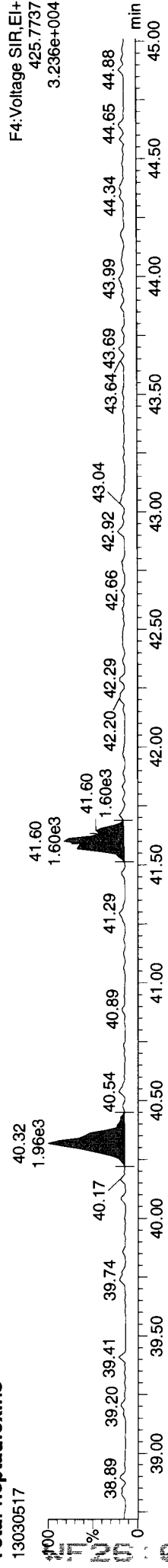
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13030517



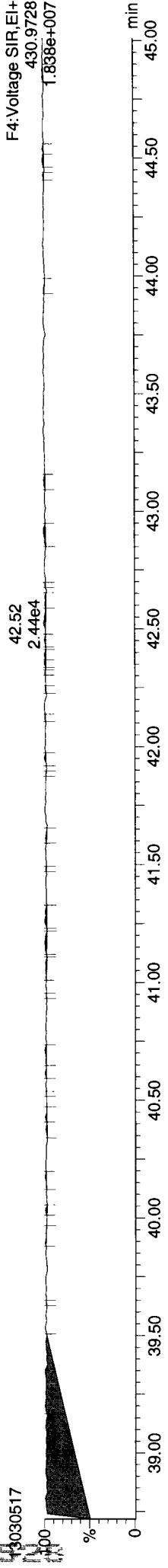
**Total-heptadioxins**  
13030517



**Total-heptadioxins**  
13030517



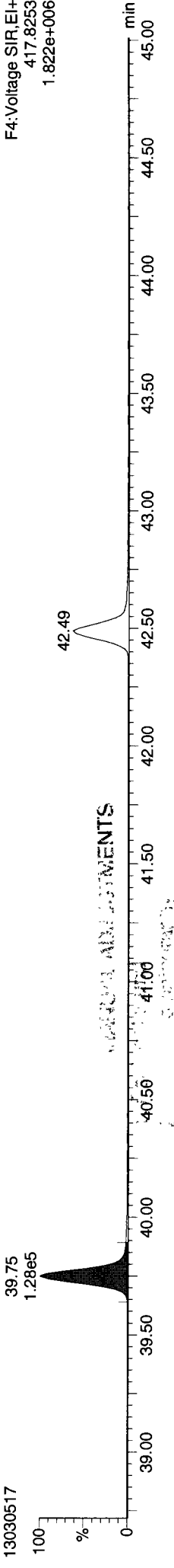
**FUNCTION4 PFK**  
13030517



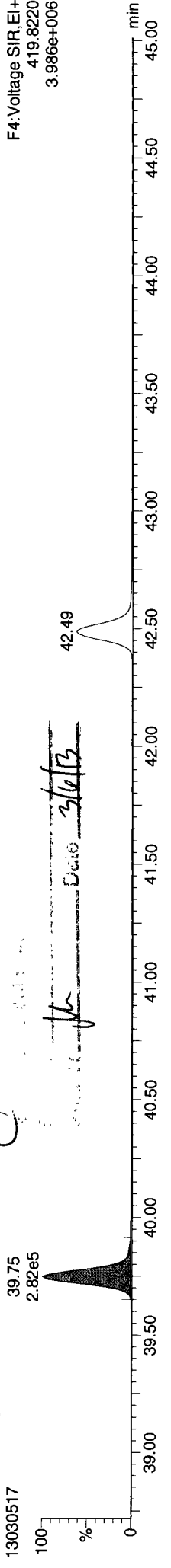
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

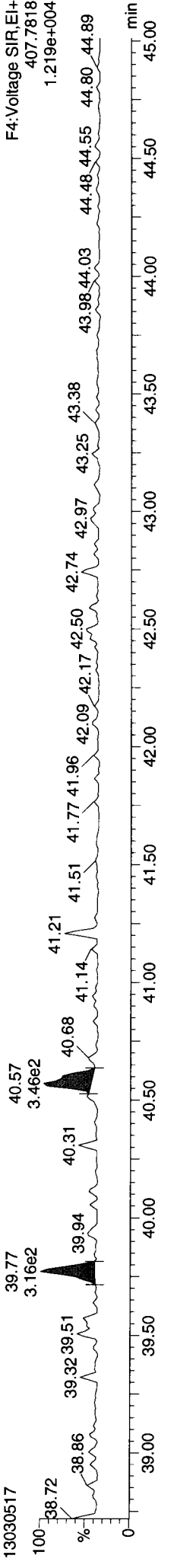
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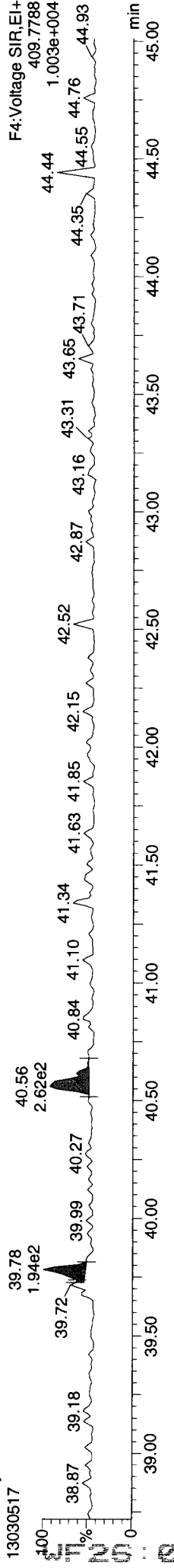
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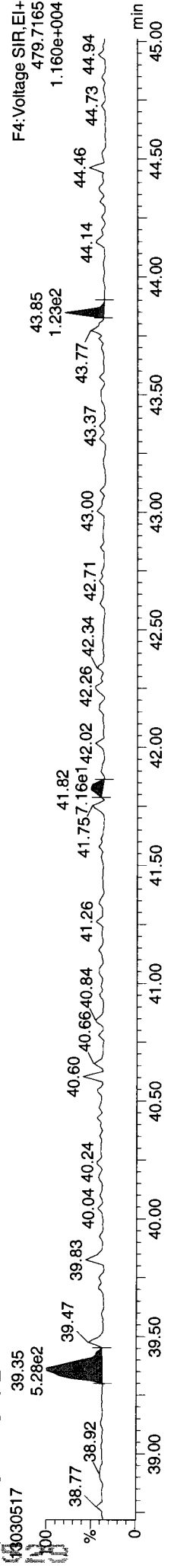
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



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417.8253  
1.822e+006

F4: Voltage SIR, EI+  
419.8220  
3.986e+006

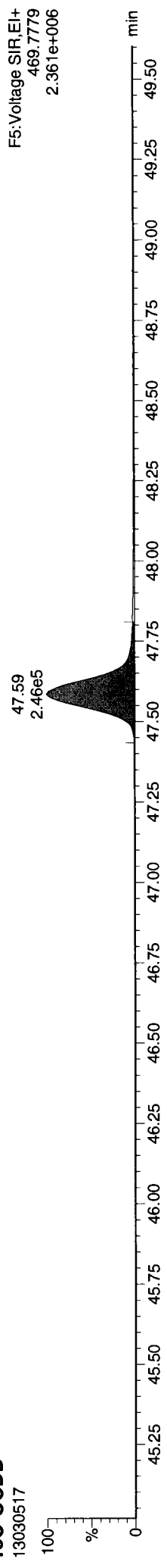
F4: Voltage SIR, EI+  
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F4: Voltage SIR, EI+  
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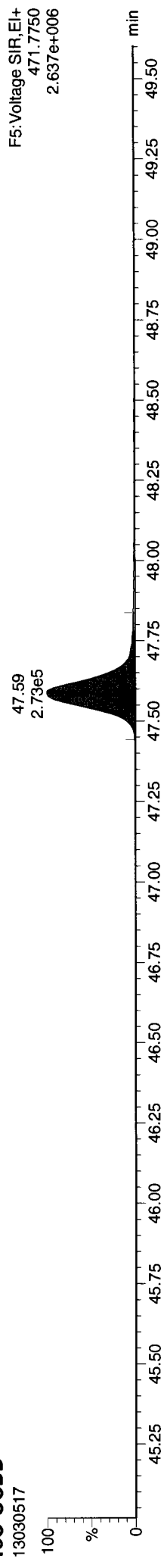
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ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

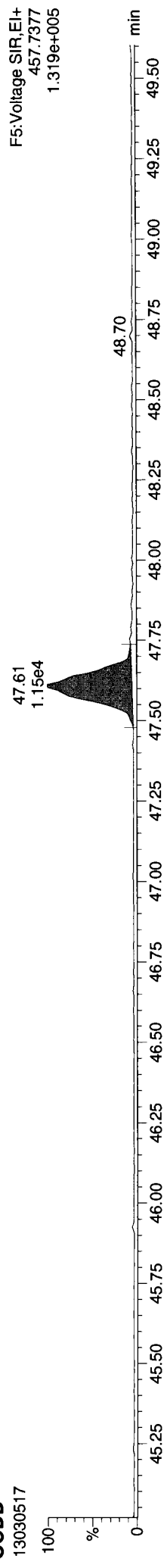
13C-OCDD  
13030517



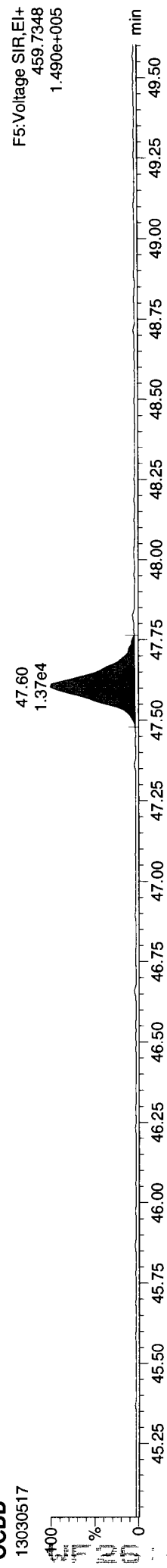
13C-OCDD  
13030517



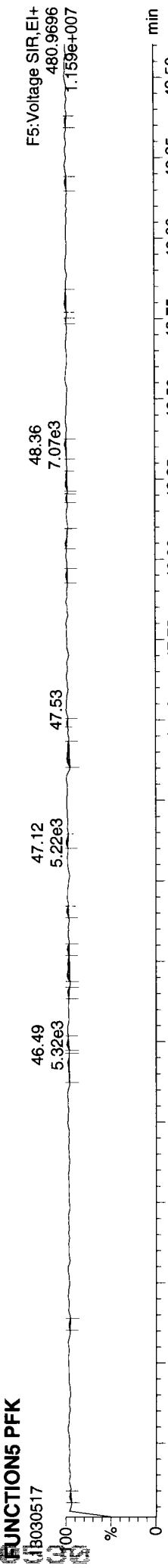
OCDD  
13030517



OCDD  
13030517



FUNCTION5 PFK  
13030517



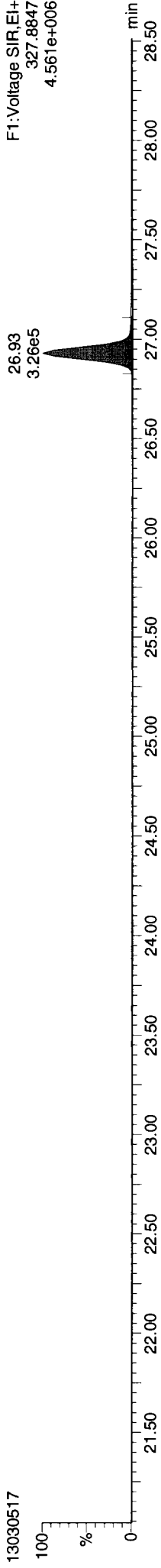
Quantify Sample Report

MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:26:51 Pacific Standard Time

ID: WF26K, Name: 13030517, Date: 06-Mar-2013, Time: 01:52:12, Conditions: AUTOSPEC01, User: pk

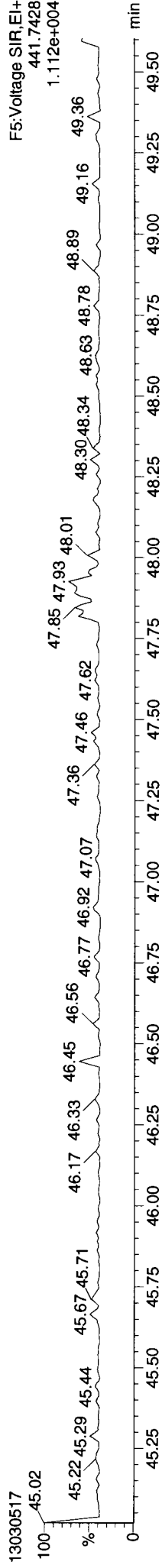
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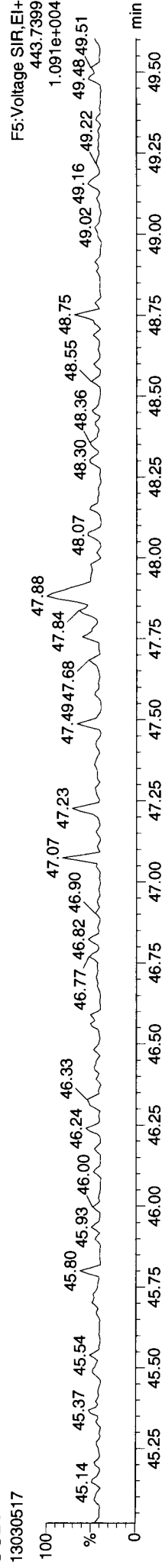
OCDF

13030517



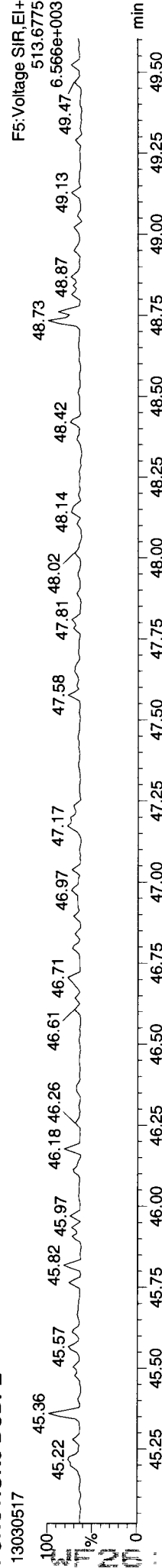
OCDF

13030517

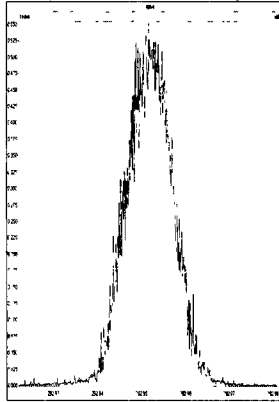


FUNCTION5 DCDPE

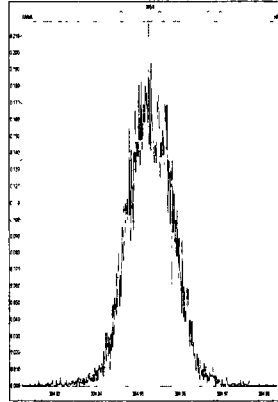
13030517



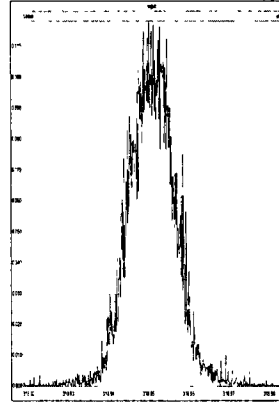
M 292.9824 R 13337



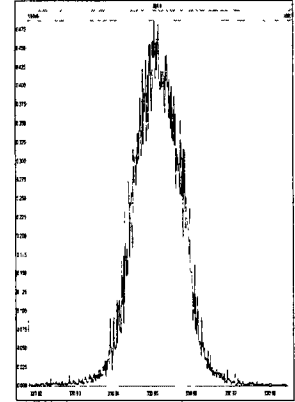
M 304.9824 R 13297



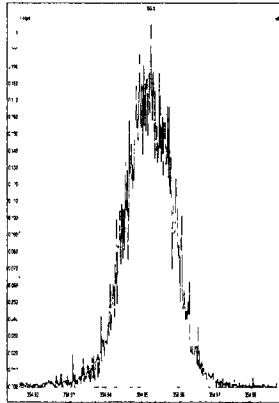
M 318.9792 R 13337



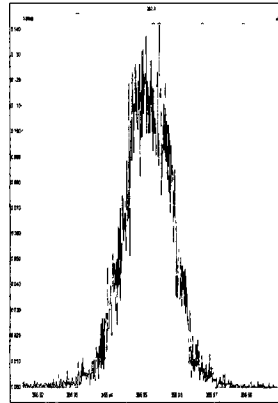
M 330.9792 R 13273



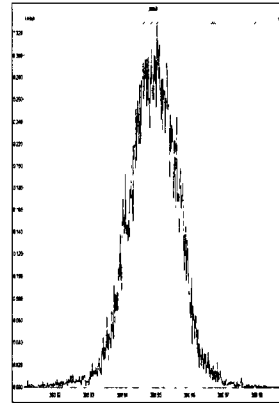
M 354.9792 R 13257



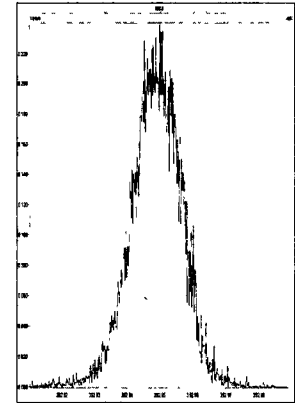
M 366.9792 R 12944



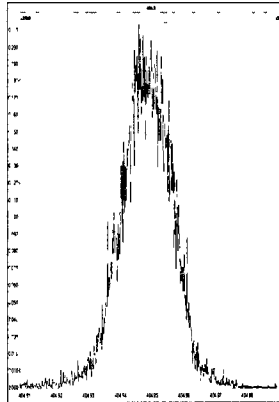
M 380.9760 R 12472



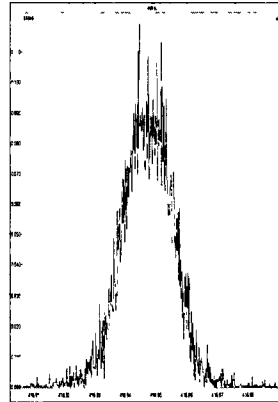
M 392.9760 R 12323



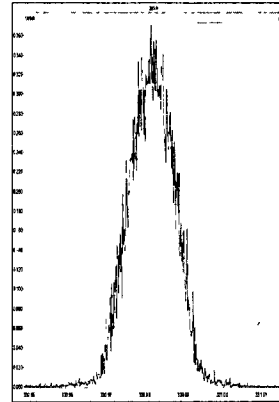
M 404.9760 R 12367



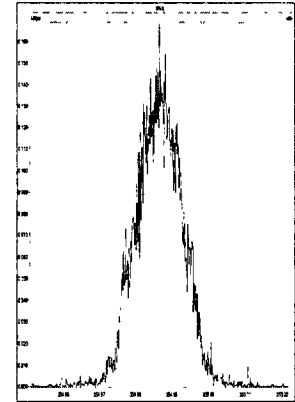
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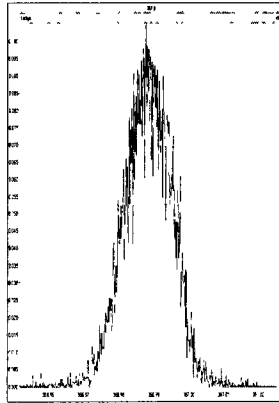
M 330.9792 R 13416



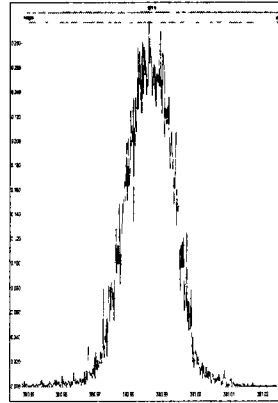
M 354.9792 R 13459



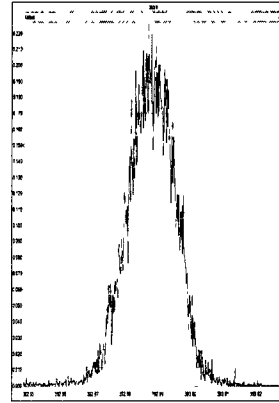
M 366.9792 R 12969



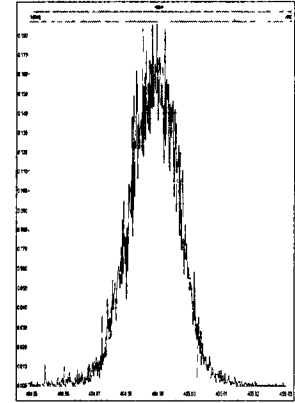
M 380.9760 R 12345



M 392.9760 R 13021

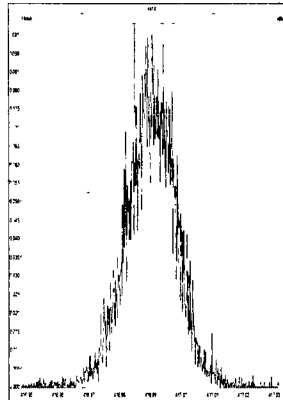


M 404.9760 R 13440

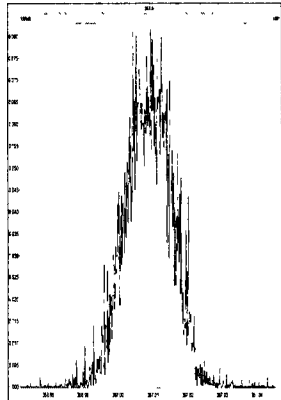




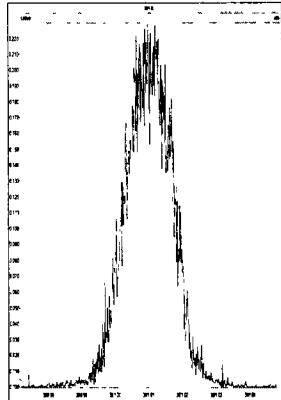
M 416.9760 R 12661



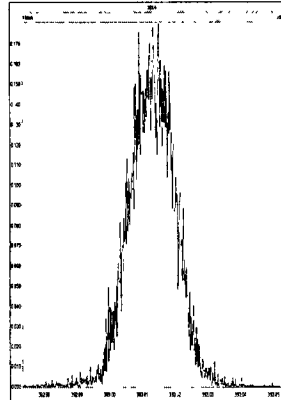
M 366.9792 R 14285



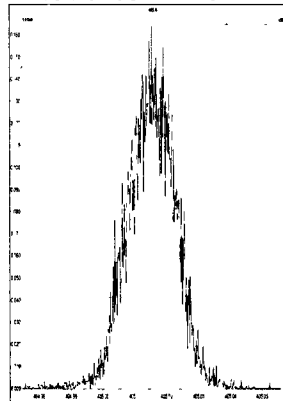
M 380.9760 R 13550



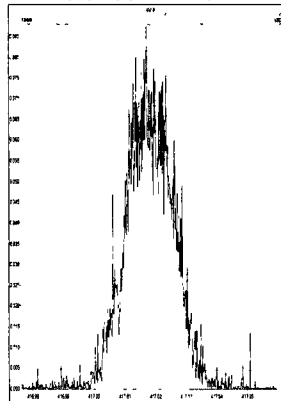
M 392.9760 R 13552



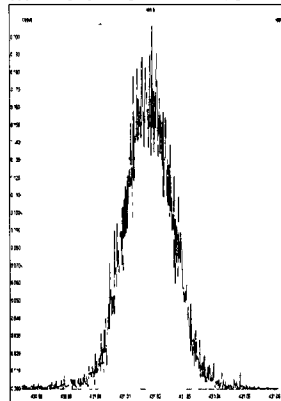
M 404.9760 R 13023



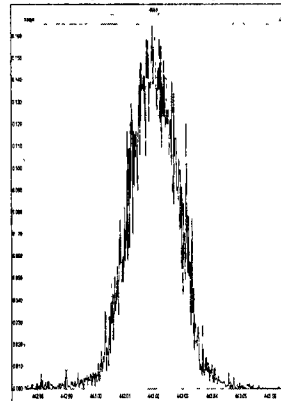
M 416.9760 R 13973



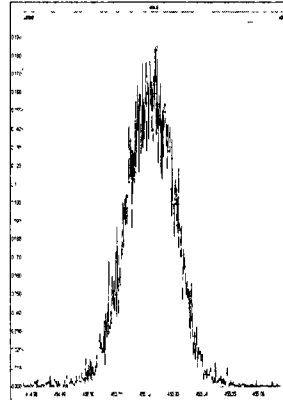
M 430.9728 R 12348



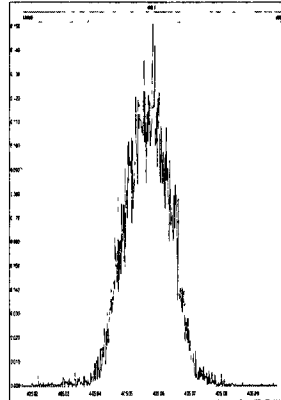
M 442.9728 R 12626



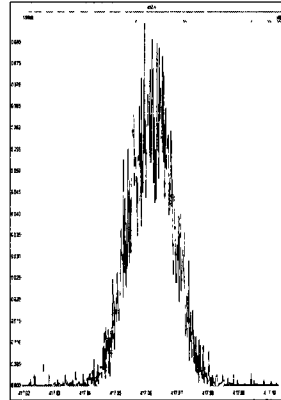
M 454.9728 R 12469



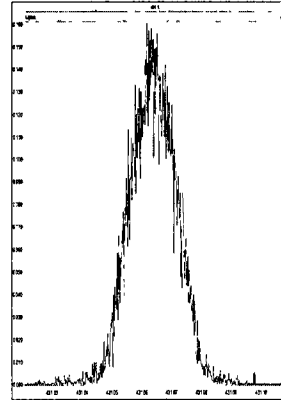
M 404.9760 R 13550



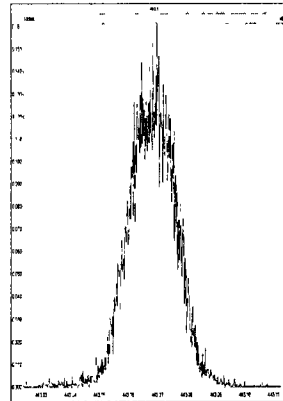
M 416.9760 R 14492



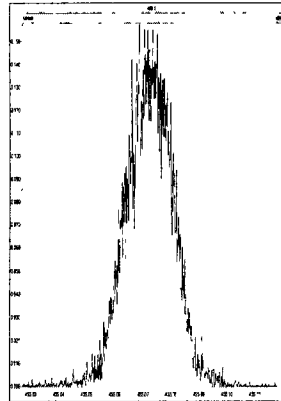
M 430.9728 R 13227



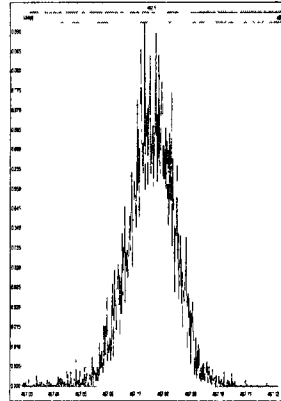
M 442.9728 R 13333



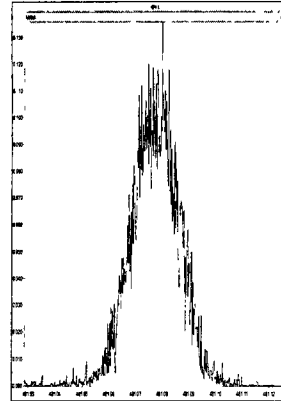
M 454.9728 R 13892



M 466.9728 R 14160

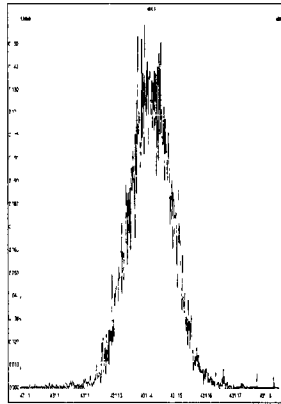


M 480.9696 R 14583

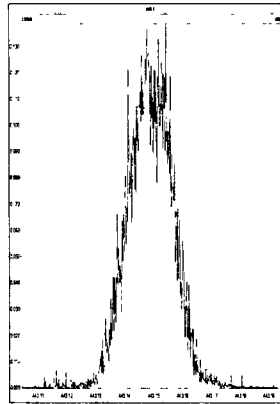


Printed: Wednesday, March 06, 2013 03:46:04 Pacific Standard Time

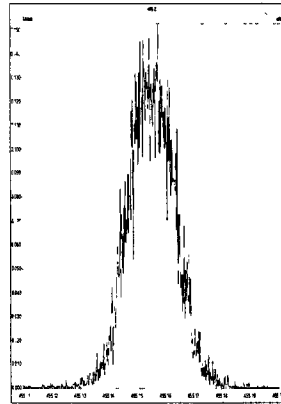
M 430.9728 R 13699



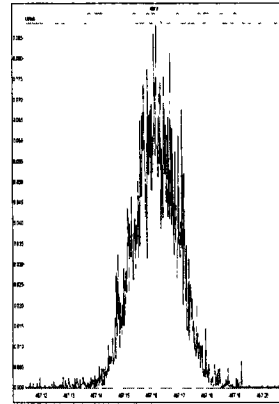
M 442.9728 R 13750



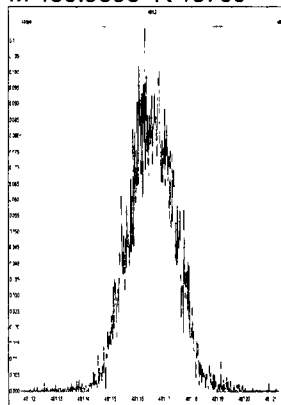
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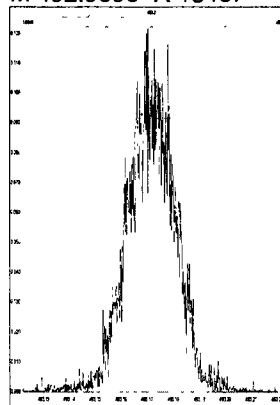
M 466.9728 R 13822



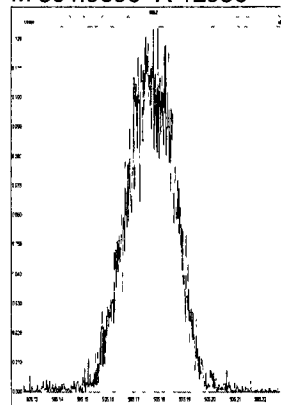
M 480.9696 R 13700



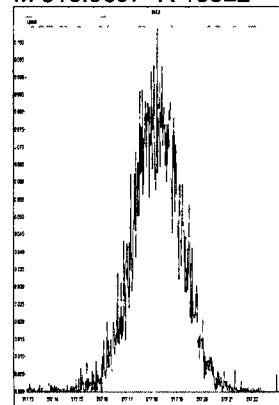
M 492.9696 R 13487



M 504.9696 R 12956



M 516.9697 R 13522



Quantify Sample Summary Report MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44
Calibration: P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

Table with 15 columns: Compound Name, Peak Area, Relative Response, Retention Time, etc. Rows include various dioxin and furan compounds like 2378-TCDF, 12378-PeCDF, 23478-PeCDF, etc.

**Quantify Sample Summary Report** MassLynx 4.1 SCN 714

Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

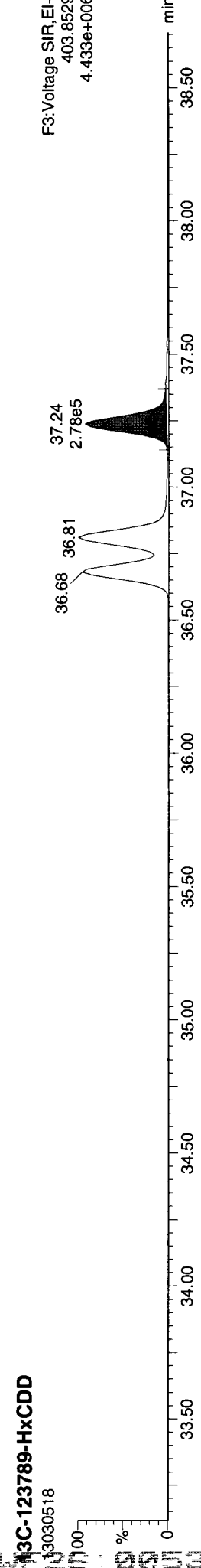
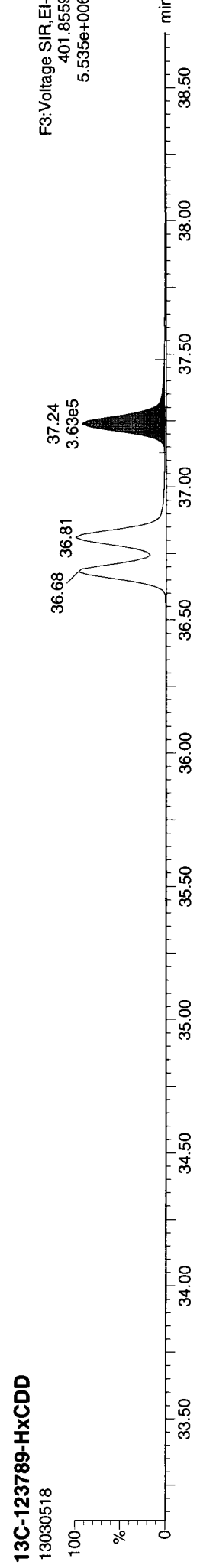
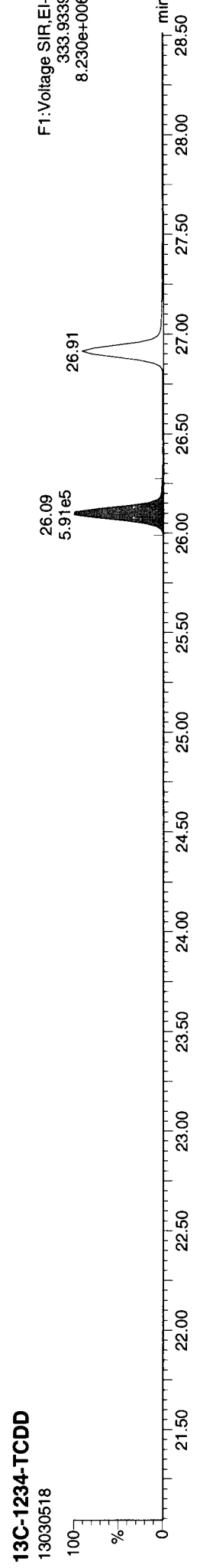
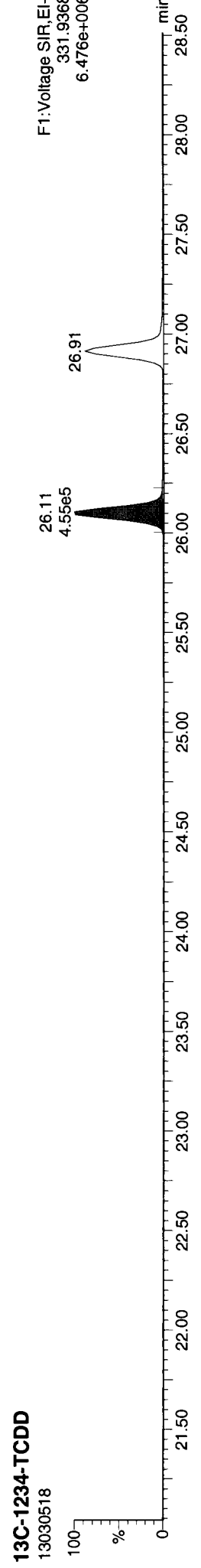
13C-123789-HxCDD	37.238	0.000	3.63e5	2.78e5	1.000	1.304	1.240	2220.8	NO	100.000
Total-tetrafurans			1.74e5		0.921					29.845
Total-penta1			4.70e5							76.349
Total-pentafurans			8.85e5		0.927					146.612
Total-hexafurans			1.21e6		1.062					268.410
Total-heptafurans			3.62e5		1.231					103.078
Total-Furans			3.35e6		1.065					720.787
Total-tetra-dioxins			2.48e5		1.106					53.355
Total-penta-dioxins			7.66e5		1.001					177.963
Total-hexa-dioxins			7.82e5		0.937					220.590
Total-hepta-dioxins			2.98e5		1.029					107.104
Total-Dioxins			2.31e6		0.994					657.051
Total-TEQ			5.65e6							1377.838
37CL-2378-TCDD	26.930	1.031	1.05e5		1.051			997.3		9.550
FUNCTION1 PFK			2.46e7							0.000
FUNCTION2 PFK			2.03e5							0.000
FUNCTION3 PFK			5.20e4							0.000
FUNCTION4 PFK			4.60e6							0.000
FUNCTION5 PFK			1.23e4							0.000
FUNCTION1 HXCDPE			1.77e2							0.000
FUNCTION1 HPCDPE			1.01e3							0.000
FUNCTION2 HPCDPE			9.03e2							0.000
FUNCTION3 OCDPE			1.57e2							0.000
FUNCTION4 NCDPE			0.00e0							0.000
FUNCTION5 DCDPE			0.00e0							0.000

WT N M : 090106

**Quantify Sample Report** MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

**Method:** P:\DIOXIN8290.PRO\MethDB\Dioxin130304.mdb 06 Mar 2013 10:08:44  
**Calibration:** P:\DIOXIN8290.PRO\CurveDB\130211CAL.cdb 12 Feb 2013 09:29:24

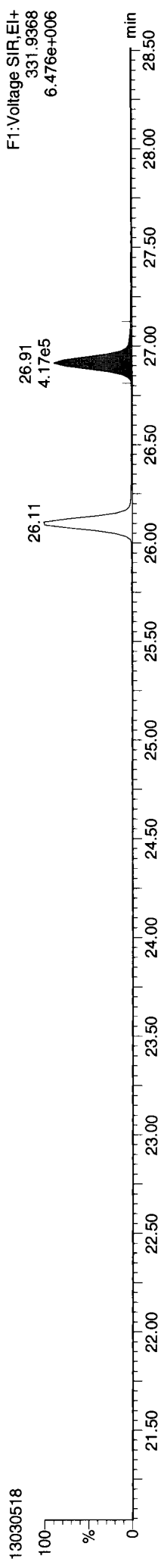
**ID:** CS3, **Name:** 13030518, **Date:** 06-Mar-2013, **Time:** 02:45:01, **Conditions:** AUTOSPEC01, **User:** pk



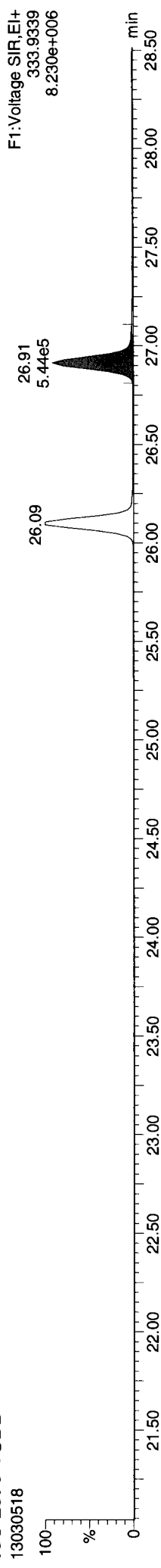
**Quantify Sample Report** MassLynx 4.1 SCN 714  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

**ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk**

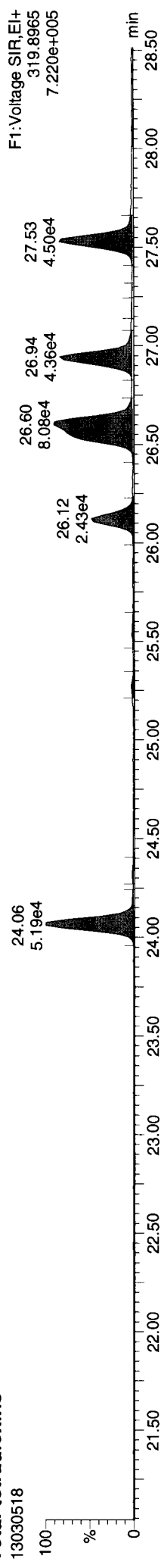
**13C-2378-TCDD**



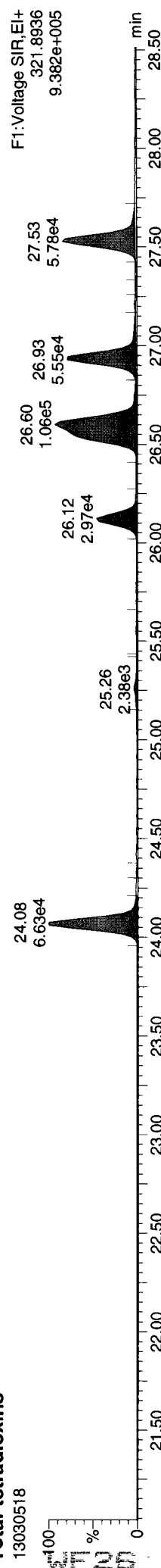
**13C-2378-TCDD**



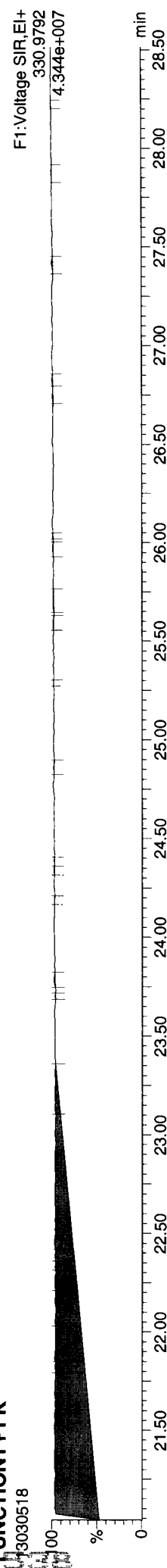
**Total-tetraoxins**



**Total-tetraoxins**



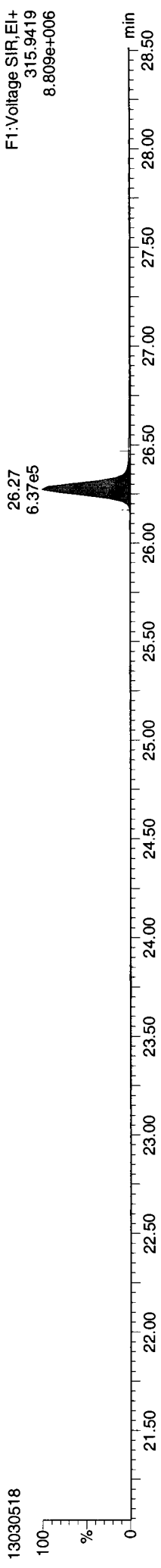
**FUNCTION1 PFK**



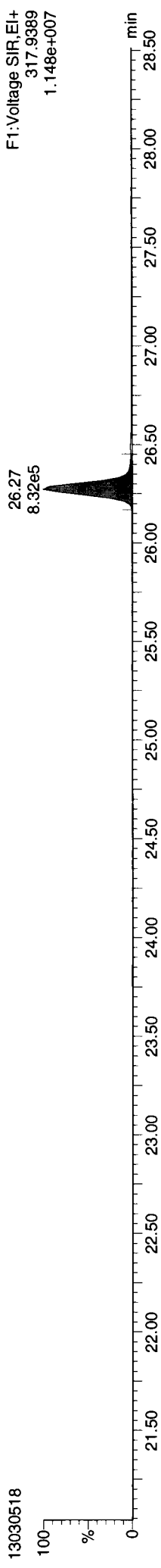
Quantify Sample Report MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

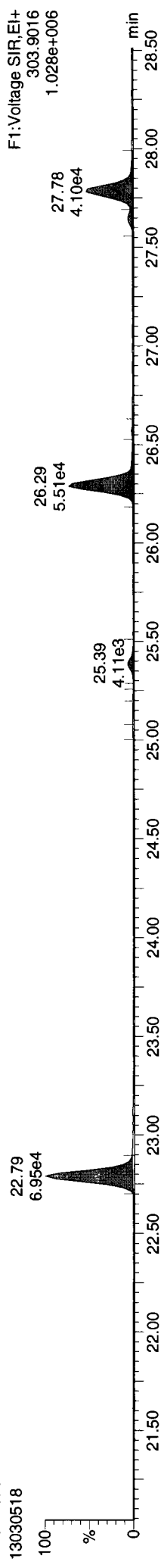
13C-2378-TCDF



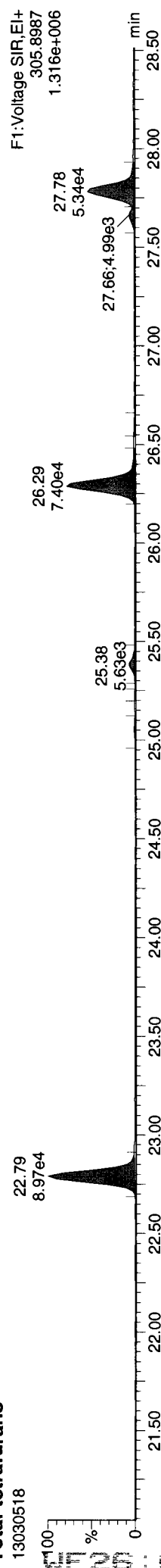
13C-2378-TCDF



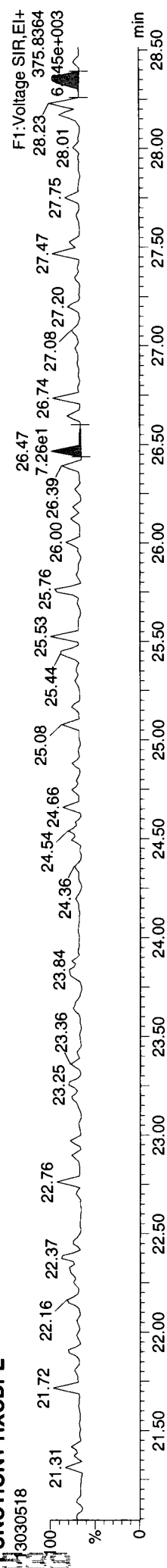
Total-tetrafurans



Total-tetrafurans



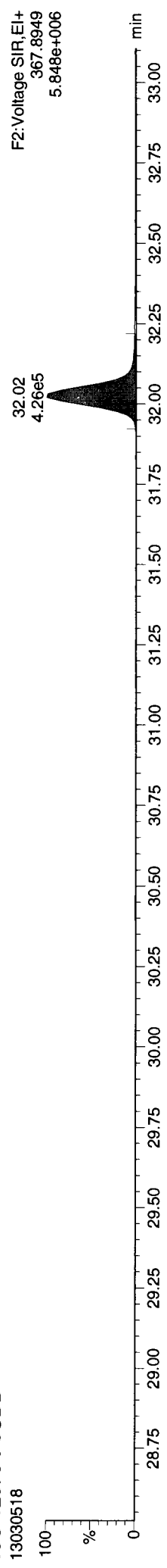
FUNCTION1 HXCDPE



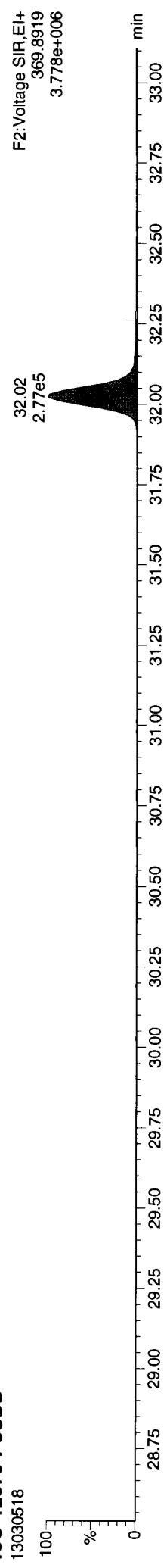
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

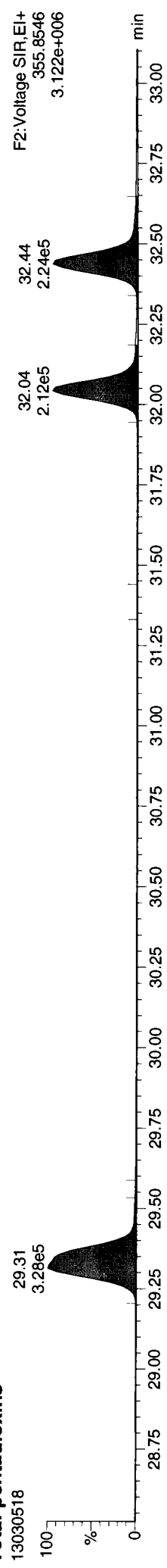
**13C-12378-PeCDD**  
13030518



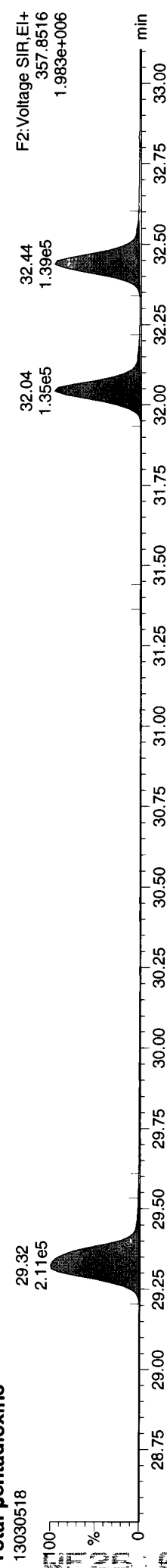
**13C-12378-PeCDD**  
13030518



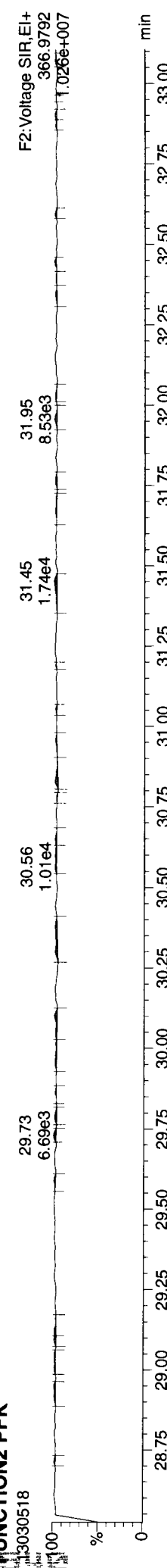
**Total-pentadioxins**  
13030518



**Total-pentadioxins**  
13030518



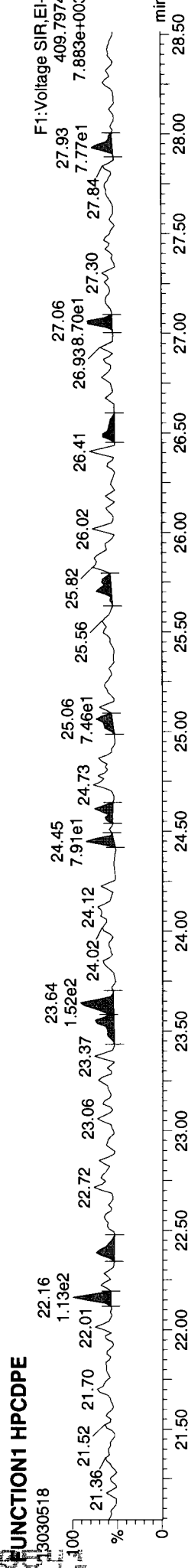
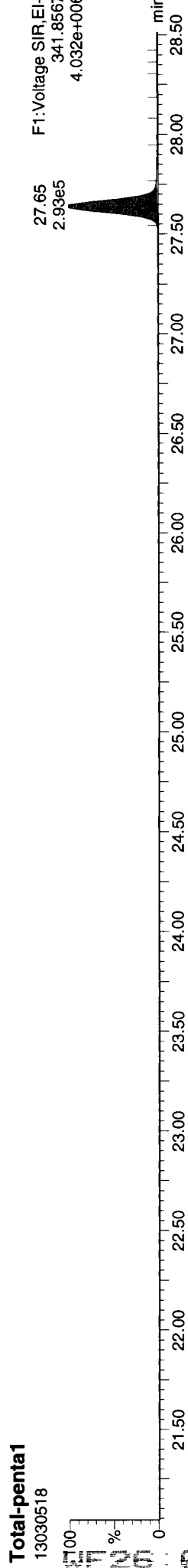
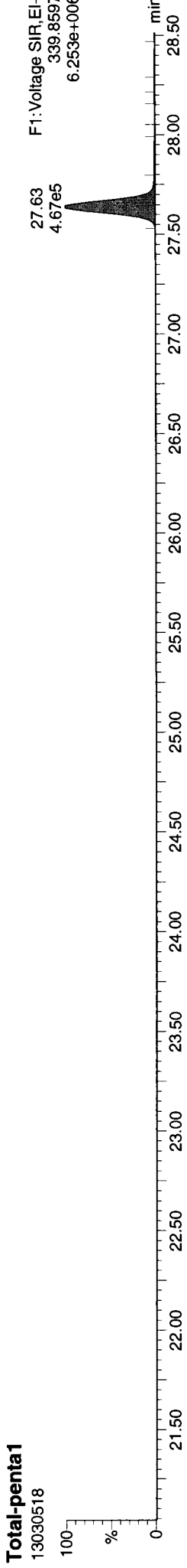
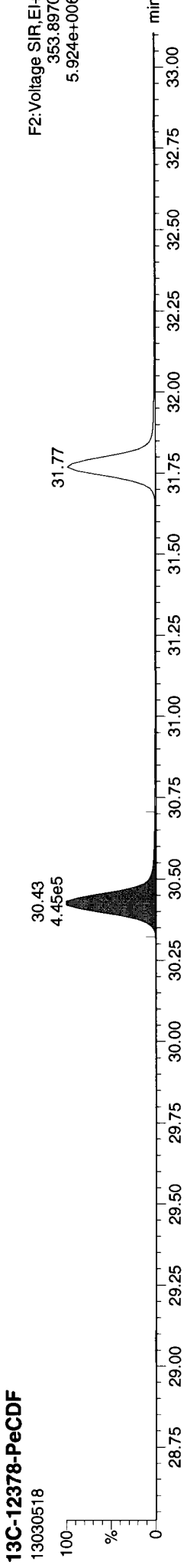
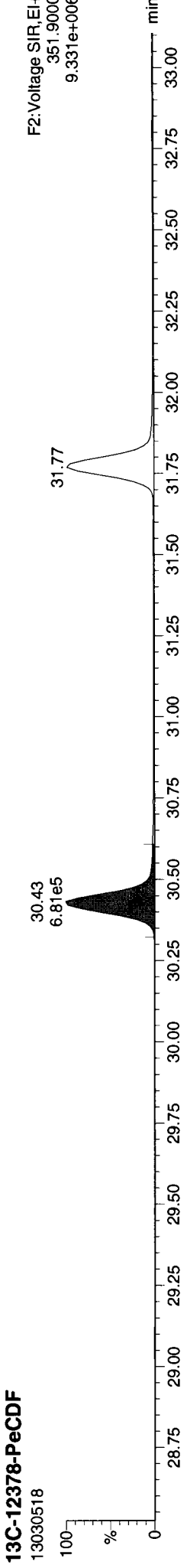
**FUNCTION2 PFK**  
13030518





Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

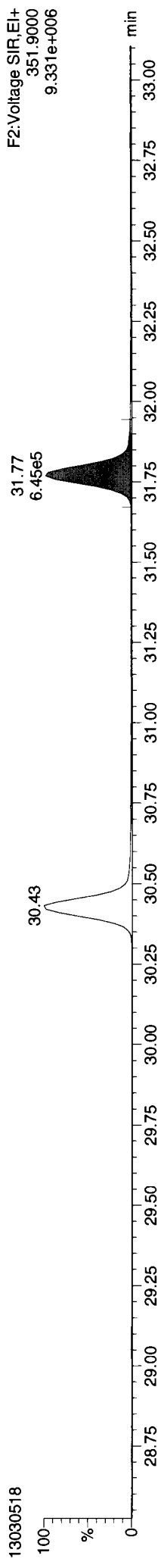
ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk



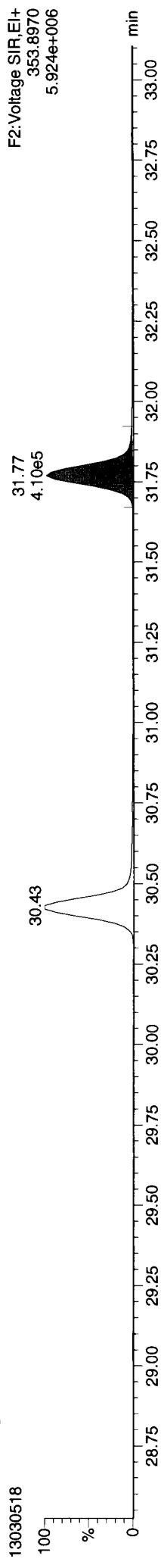
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

**ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk**

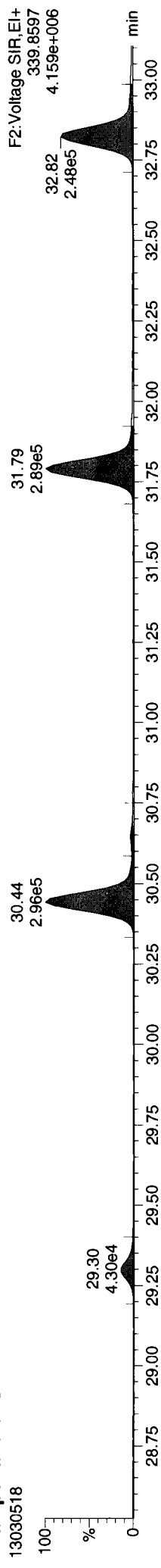
**13C-23478-PeCDF**



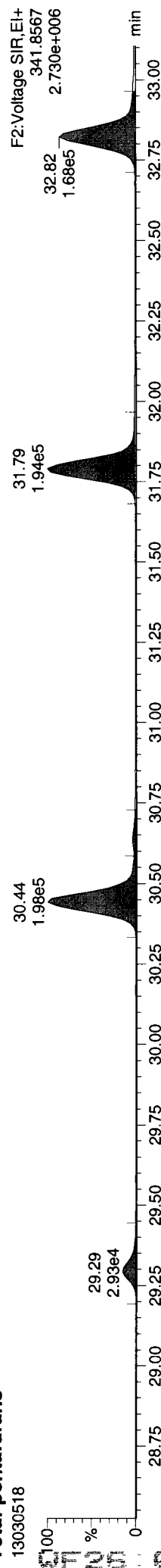
**13C-23478-PeCDF**



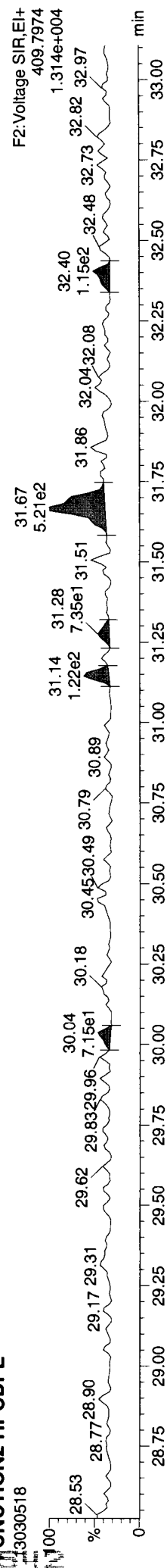
**Total-pentafurans**



**Total-pentafurans**



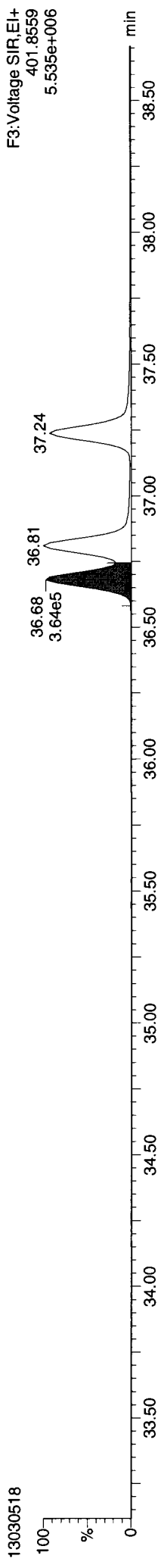
**FUNCTION2 HPCDFE**



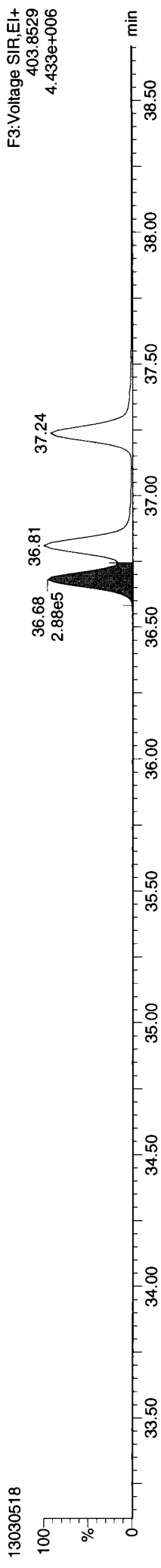
**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

**ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk**

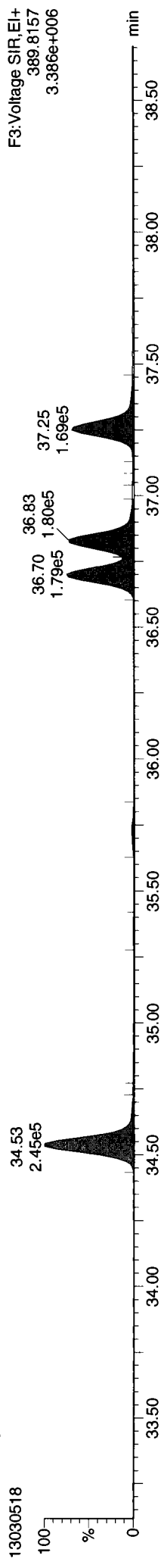
**13C-123478-HxCDD**



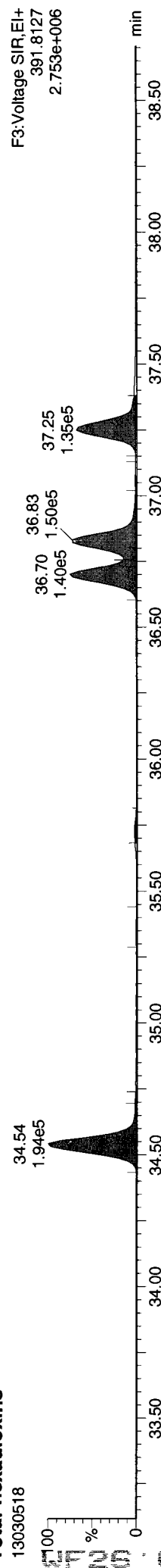
**13C-123478-HxCDD**



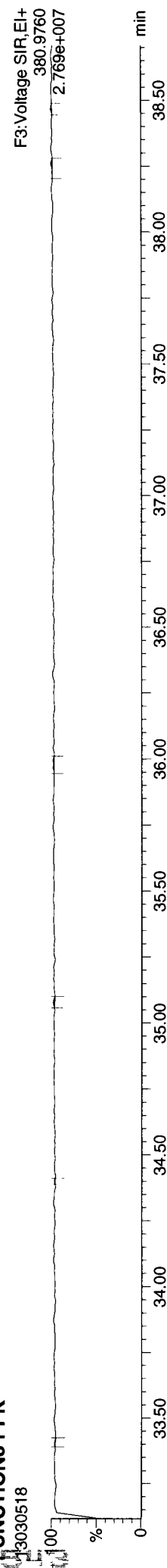
**Total-hexadioxins**



**Total-hexadioxins**



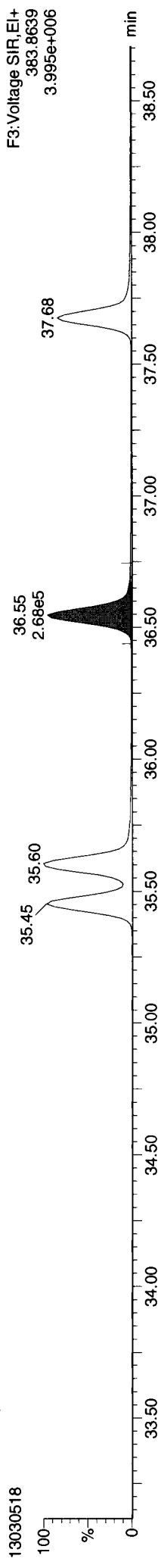
**FUNCTION3 PFK**



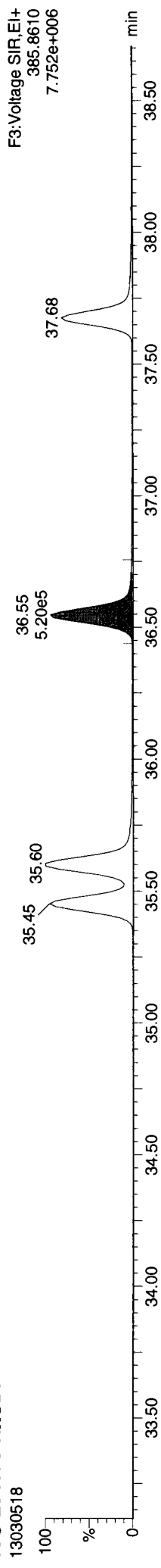
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 Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
 Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
 Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

**ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk**

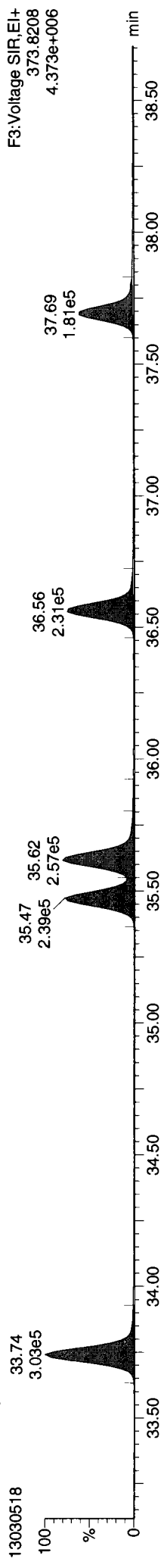
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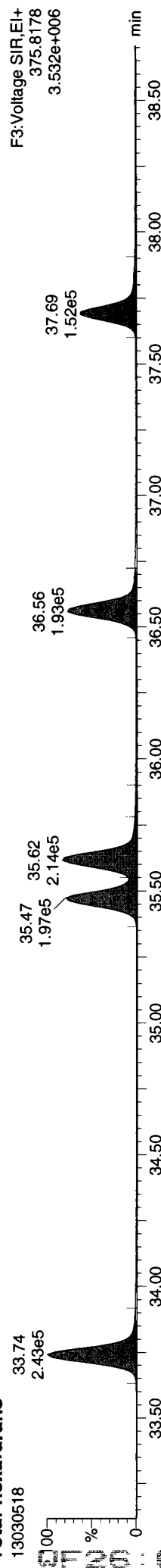
**13C-234678-HxCDF**



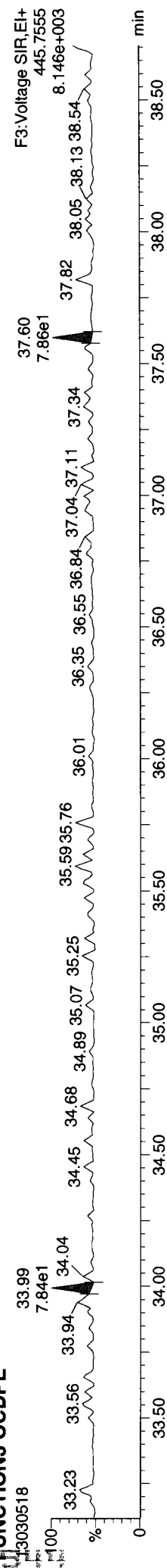
**Total-hexafurans**



**Total-hexafurans**



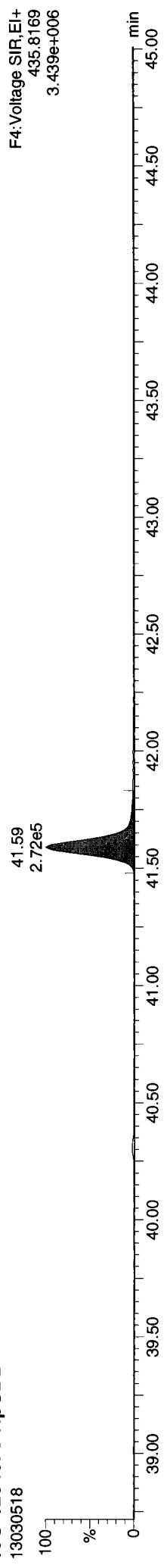
**FUNCTION3 OCDFE**



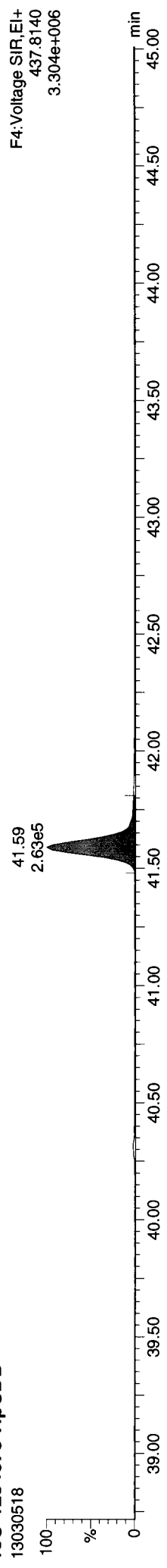
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Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

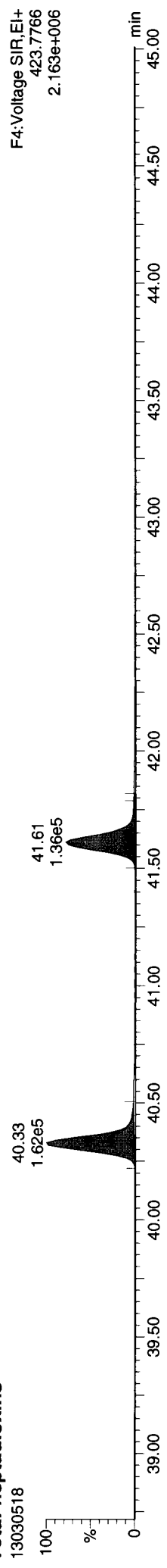
13C-1234678-HpCDD



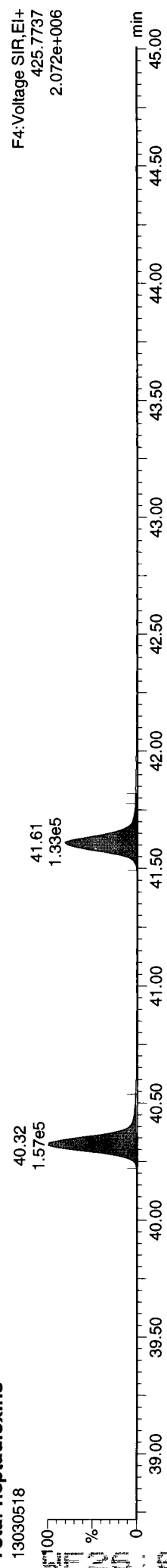
13C-1234678-HpCDD



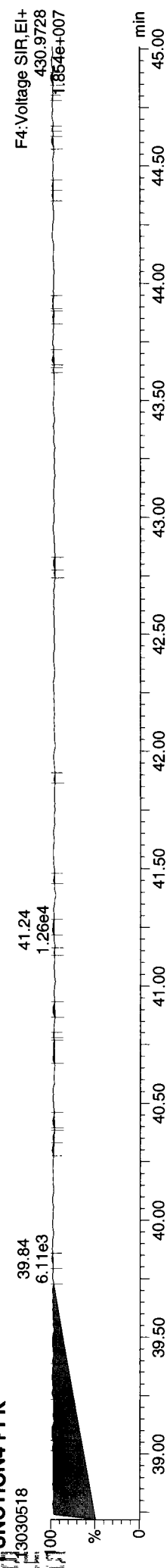
Total-heptadioxins



Total-heptadioxins



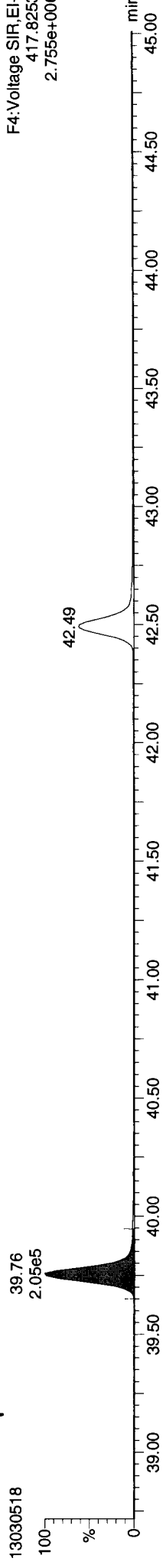
FUNCTION4 PFK



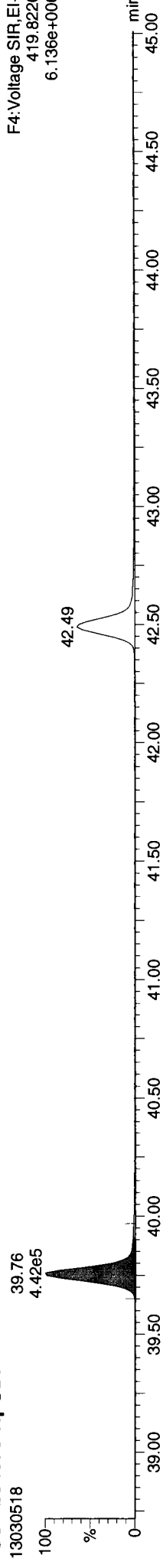
Quantify Sample Report  
MassLynx 4.1 SCN 714  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qld  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

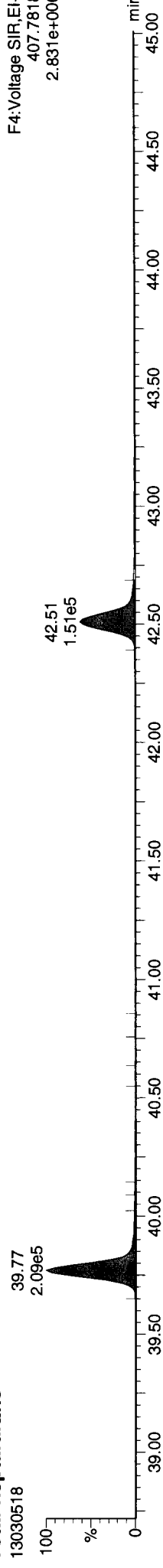
13C-1234678-HpCDF



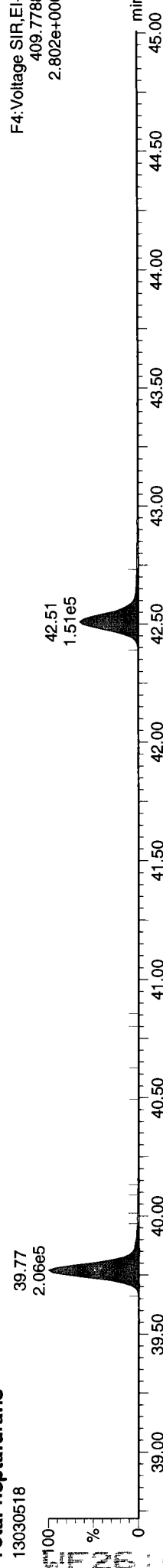
13C-1234678-HpCDF



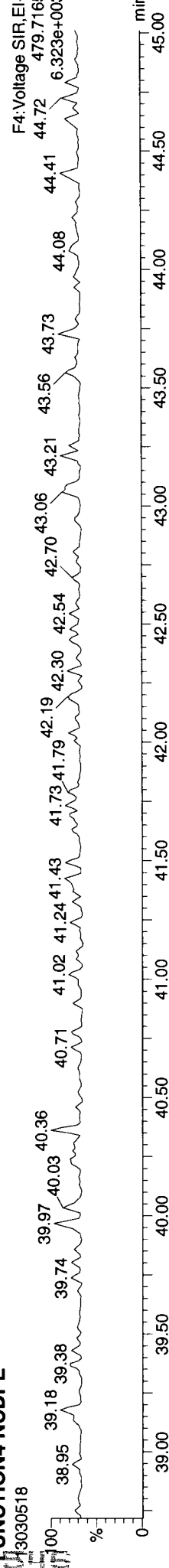
Total-heptafurans



Total-heptafurans



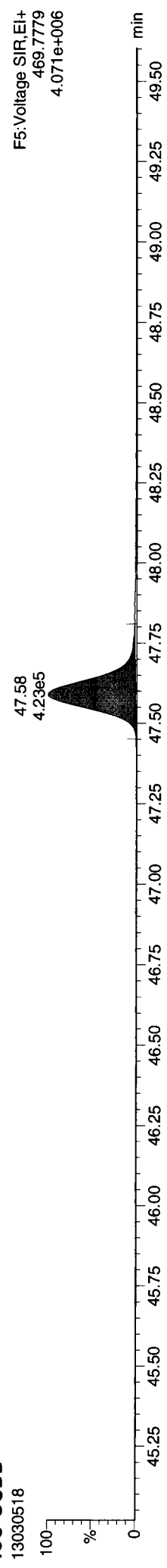
FUNCTION4 NCDPE



**Quantify Sample Report**    **MassLynx 4.1 SCN 714**  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qid  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

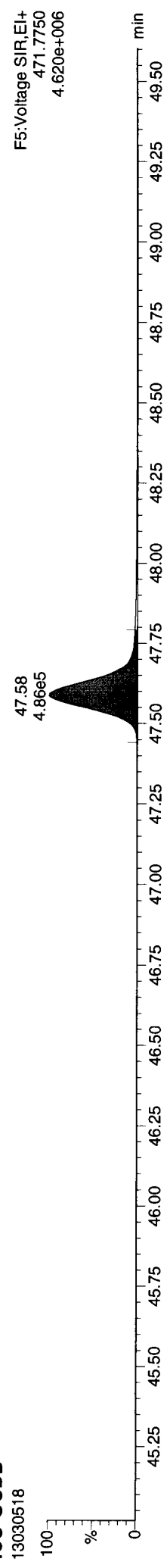
**ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk**

**13C-OCDD**  
13030518



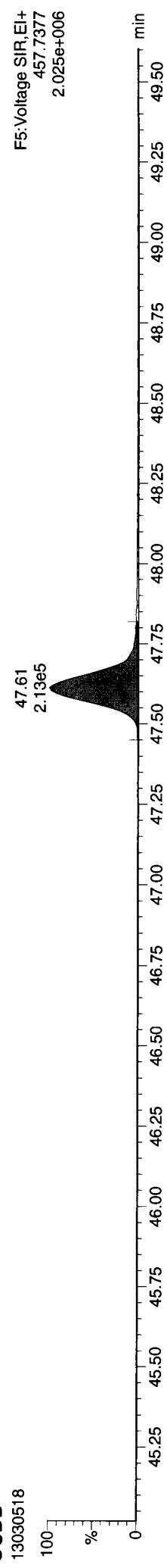
F5: Voltage SIR, EI+  
469.7779  
4.071e+006

**13C-OCDD**  
13030518



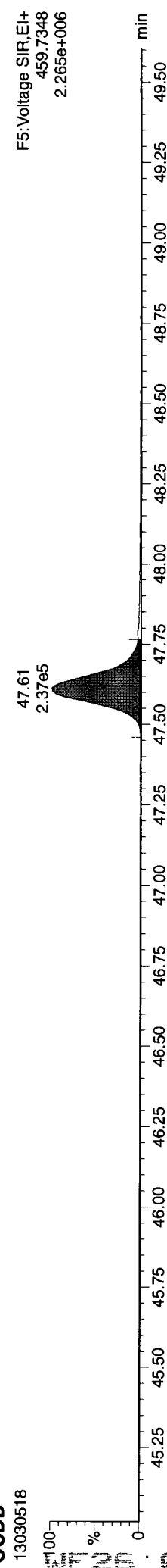
F5: Voltage SIR, EI+  
471.7750  
4.620e+006

**OCDD**  
13030518



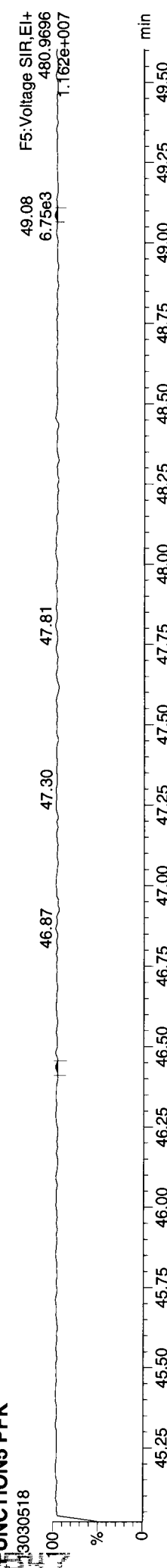
F5: Voltage SIR, EI+  
457.7377  
2.025e+006

**OCDD**  
13030518



F5: Voltage SIR, EI+  
459.7348  
2.265e+006

**FUNCTION5 PFK**  
13030518



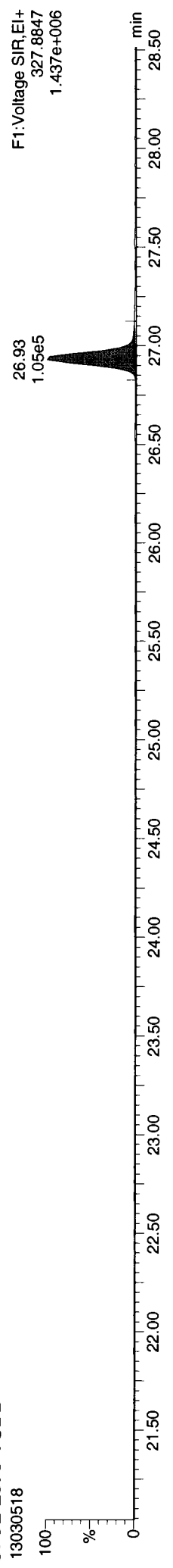
F5: Voltage SIR, EI+  
480.9696  
1.162e+007

Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\130305DATA2.qid  
Last Altered: Wednesday, March 06, 2013 11:20:49 Pacific Standard Time  
Printed: Wednesday, March 06, 2013 11:21:41 Pacific Standard Time

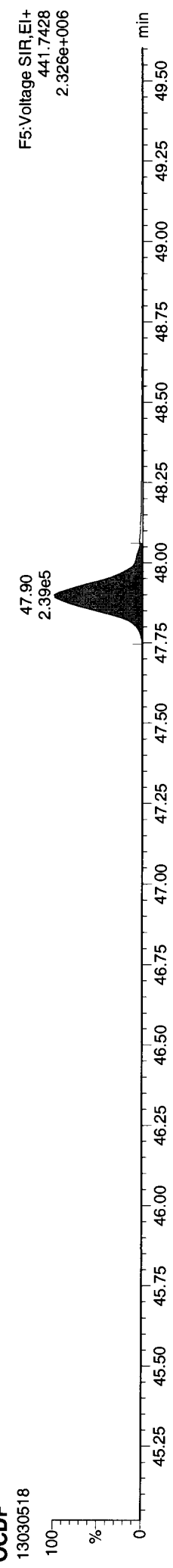
MassLynx 4.1 SCN 714

ID: CS3, Name: 13030518, Date: 06-Mar-2013, Time: 02:45:01, Conditions: AUTOSPEC01, User: pk

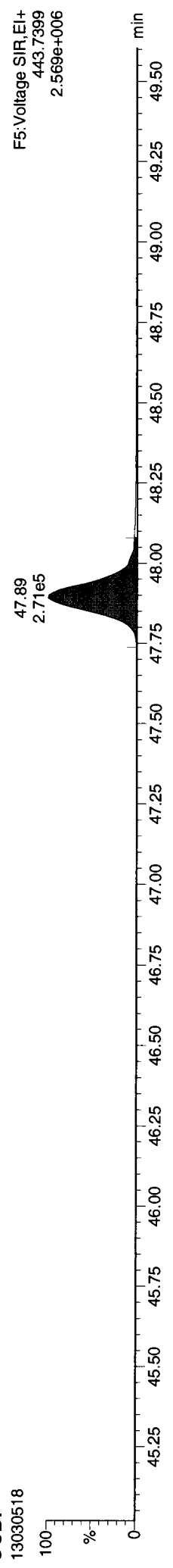
37CL-2378-TCDD  
13030518



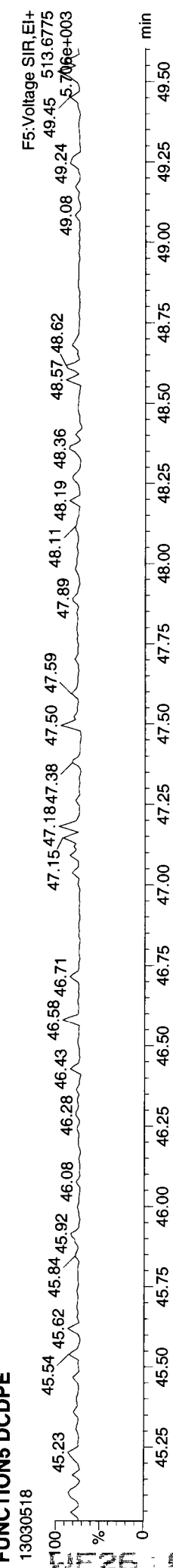
OCDF  
13030518



OCDF  
13030518



FUNCTION5 DCDPE  
13030518



13030518



**Attachment 3  
Data Validation Report**



**EcoChem, INC.**  
Environmental Data Quality

## **DATA VALIDATION REPORT**

**Port of Seattle  
Lora Lake Parcel RIFS**

**Prepared for:**

Floyd/Snider  
601 Union Street, Suite 600  
Seattle, WA 98101

**Prepared by:**

EcoChem, Inc.  
1011 Western Ave, Suite 1011  
Seattle, Washington 98104

EcoChem Project: C15215-1

March 27, 2013

**Approved for Release:**

Christine Ransom  
Project Manager  
**EcoChem, Inc.**

# PROJECT NARRATIVE

## ***Basis for the Data Validation***

This report summarizes the results of data validation performed on soil and quality control (QC) sample data for the Remedial Investigation/Feasibility Study at Lora Lake Parcel, Burien, WA. The data received a full validation (EPA Stage 4). A complete list of samples is provided in the **Sample Index**.

Analytical Resources, Inc. (Tukwila, Washington) performed the dioxin/furan analyses. The analytical method and EcoChem project chemists are listed in the table below.

Analysis	Method	Primary Review	Secondary Review
Dioxin Furan Compounds	EPA 1613B	M. Swanson	C. Ransom

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *Port of Seattle Lora Lake Parcel, Remedial Investigation/Feasibility Study Work Plan* (February 11, 2011); and *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **APPENDIX A**. A Qualified Data Summary Table is included in **APPENDIX B**. Data Validation Worksheets will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

**Sample Index**  
**POS - Lora Lake Parcel RIFS**

<b>SDG</b>	<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Dioxins</b>
WF26	LL-SB8-0-0.5-022013	13-3793-WF26A	✓
	LL-SB8-1.5-2-022613	13-3794-WF26B	✓
	LL-SB7-0-0.5-022613	13-3795-WF26C	✓
	LL-SB7-1.5-2-022613	13-3796-WF26D	✓
	LL-SB9-0-0.5-022613	13-3797-WF26E	✓
	LL-SB9-1.5-2-022613	13-3798-WF26F	✓
	LL-SB5-4-5-022613	13-3799-WF26G	✓
	LL-SB10-0-0.5-022613	13-3800-WF26H	✓
	LL-SB10-1.5-2-022613	13-3801-WF26I	✓
	LL-SB11-0-0.5-022613	13-3802-WF26J	✓
	LL-SB11-1.5-2-022613	13-3803-WF26K	✓

# DATA VALIDATION REPORT

## Lora Lake Parcel RIFS

### Dioxin/Furan Compounds by Method 1613

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. Full validation (EPA Stage 4) was performed on all data. See the **Sample Index** for a complete list of samples.

SDG	Number of Samples
WF26	11 Soil

#### I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

#### II. TECHNICAL DATA VALIDATION

The quality control (QC) requirements reviewed are summarized in the following table:

√ Sample Receipt, Preservation, and Holding Times	1 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
√ System Performance and Resolution Checks	√ Ongoing Precision and Recovery (OPR)
√ Initial Calibration (ICAL)	1 Field Duplicates
√ Calibration Verification (CVER)	√ Target Analyte List
1 Method Blanks	2 Reported Results
1 Field Blanks	2 Compound Identification
2 Labeled Compound Recovery	1 Calculation Verification

√ *Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.*

<sup>1</sup> *Quality control results are discussed below, but no data were qualified.*

<sup>2</sup> *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

#### Method Blanks

In order to assess the impact of blank contamination on the reported sample results, action levels were established at five times the blank concentrations.

The laboratory assigned an "EMPC" flag to an analyte result when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When a result in the method blank had an "EMPC" flag, the result was treated as a non-detect at an elevated detection limit; therefore no action level was established for these analytes.

The target analytes OCDD and 1,2,3,4,7,8,9-HpCDF were detected in the method blank. All results for these compounds in the associated samples were greater than the action levels; no qualification of data was necessary.

## Field Blanks

No equipment rinsate samples were submitted.

## Labeled Compound Recovery

The labeled compound percent recovery (%R) value for 13C-2,3,7,8-TCDF (65.2%) was less than the QAPP specified lower control limit of 70% in Sample LL-SB11-0-0.5-022613. The 2,3,7,8-TCDF result in this sample was estimated (J-13) to indicate a potential low bias.

## Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate analyses were not performed. Accuracy was evaluated using the labeled compound and ongoing precision and recovery (OPR) standard recoveries. Precision within the analytical batch could not be assessed.

## Field Duplicates

No field duplicate samples were submitted.

## Reported Results

Diphenyl ether interferences were indicated for 1,2,3,7,8-PeCDF in Sample LL-SB10-0-0.5-022613 and 2,3,4,7,8-PeCDF in Sample LL-SB7-1.5-2-022613. The laboratory flagged these results with an "X". The 2,3,4,7,8-PeCDF result for Sample LL-SB7-1.5-2-022613 was qualified as not-detected as it was reported as an EMPC. No further action was necessary. The 1,2,3,7,8-PeCDF result for Sample LL-SB10-0-0.5-022613 was estimated (J-14) to indicate a potential high bias.

The OCDD result for Sample LL-SB5-4-5-022613 exceeded the calibration range of the instrument. This result was estimated (J-20).

## Compound Identification

The method requires the confirmation of 2,3,7,8-TCDF using an alternate GC column as the DB5 column that is typically used cannot fully separate 2,3,7,8-TCDF from closely eluting non-target TCDF isomers. The laboratory did not perform a second column confirmation; however the laboratory uses an RTX-Dioxin2 column. This column provides adequate resolution of the TCDF isomers as indicated by the acceptable peak to valley ratios. Since the 2,3,7,8-TCDF resolution was acceptable, no action was necessary.

The laboratory assigned an "EMPC" flag to one or more analytes to indicate that the ion ratio criterion for positive identification was not met. Since the ion abundance ratio is the primary identification criterion for high resolution mass spectroscopy, an outlier indicates that the reported result may be a false positive. These "EMPC" flagged results were qualified as not detected (U-22) at the reported concentration.

## Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

### III. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exception noted above, accuracy was acceptable as demonstrated by the labeled compound and OPR recoveries. Precision could not be assessed.

Detection limits were elevated based on ion ratio outliers. Data were estimated based on a labeled compound recovery outlier, interference from diphenyl ether, and for exceeding the linear calibration range.

All data, as qualified, are acceptable for use.



**EcoChem, INC.**  
Environmental Data Quality

**APPENDIX A**  
**DATA QUALIFIER DEFINITIONS**  
**REASON CODES**  
**AND CRITERIA TABLES**



## DATA VALIDATION QUALIFIER CODES National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

---

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
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## DATA QUALIFIER REASON CODES

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1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with "R" and "DNR" only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS  
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection <i>Note:</i> Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL)
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of <sup>13</sup> C <sub>12</sub> -1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS  
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D +/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of <sup>13</sup> C <sub>12</sub> -1234-TCDD and <sup>13</sup> C <sub>12</sub> -123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS  
 (Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limits	9
Labeled Compounds / Internal Standards	<i>Method 8290</i> : %R = 40% - 135% in all samples	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
	<i>Method 1613B</i> : %R must meet limits specified in Table 7, Method 1613		
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation identification criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL)  Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11



**EcoChem, INC.**  
Environmental Data Quality

# **APPENDIX B**

# **QUALIFIED DATA SUMMARY TABLE**

**Qualified Data Summary Table  
POS Lora Lake Parcel RIFS**

Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	2,3,7,8-TCDF	0.551	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total TCDF	11.6	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	2,3,7,8-TCDD	0.565	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total TCDD	7.14	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,7,8-PeCDF	0.48	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	2,3,4,7,8-PeCDF	0.522	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total PeCDF	12.6	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,7,8-PeCDD	0.806	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total PeCDD	9.33	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,6,7,8-HxCDF	0.854	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	2,3,4,6,7,8-HxCDF	1.18	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,7,8,9-HxCDF	0.39	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total HxCDF	22	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,4,7,8-HxCDD	0.932	pg/g	JEMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	1,2,3,7,8,9-HxCDD	1.93	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total HxCDD	29.4	pg/g	EMPC	U	22
LL-SB8-0-0.5-022013	13-3793-WF26A	EPA 1613B	Total HpCDF	44.1	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	2,3,7,8-TCDF	0.565	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total TCDF	12	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	2,3,7,8-TCDD	0.505	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total TCDD	5.41	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	1,2,3,7,8-PeCDF	0.347	pg/g	JEMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total PeCDF	15.8	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total PeCDD	9.78	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	1,2,3,4,7,8-HxCDF	1.05	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	1,2,3,6,7,8-HxCDF	0.687	pg/g	JEMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total HxCDF	19.1	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total HxCDD	36.5	pg/g	EMPC	U	22
LL-SB8-1.5-2-022613	13-3794-WF26B	EPA 1613B	Total HpCDF	44.8	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total TCDF	12.7	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	2,3,7,8-TCDD	0.314	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total TCDD	5.65	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	1,2,3,7,8-PeCDF	0.391	pg/g	JEMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total PeCDF	13.4	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total PeCDD	8.39	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	1,2,3,7,8,9-HxCDF	0.166	pg/g	JEMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total HxCDF	16.5	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total HxCDD	23.9	pg/g	EMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	1,2,3,4,7,8,9-HpCDF	0.654	pg/g	JEMPC	U	22
LL-SB7-0-0.5-022613	13-3795-WF26C	EPA 1613B	Total HpCDF	30.9	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	2,3,7,8-TCDF	0.412	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total TCDF	9.84	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	2,3,7,8-TCDD	0.219	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total TCDD	4.71	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	2,3,4,7,8-PeCDF	0.691	pg/g	JXEMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total PeCDF	14.9	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total PeCDD	14.6	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	2,3,4,6,7,8-HxCDF	1.35	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	1,2,3,7,8,9-HxCDF	0.327	pg/g	JEMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total HxCDF	30.8	pg/g	EMPC	U	22

**Qualified Data Summary Table  
POS Lora Lake Parcel RIFS**

Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	1,2,3,7,8,9-HxCDD	2.82	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total HxCDD	38	pg/g	EMPC	U	22
LL-SB7-1.5-2-022613	13-3796-WF26D	EPA 1613B	Total HpCDF	85.5	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	2,3,7,8-TCDF	0.302	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total TCDF	5.28	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	2,3,7,8-TCDD	0.249	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total TCDD	3.98	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	1,2,3,7,8-PeCDF	0.189	pg/g	JEMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total PeCDF	14.5	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total PeCDD	13.6	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total HxCDF	31.5	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total HxCDD	59	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	1,2,3,4,7,8,9-HpCDF	1.56	pg/g	EMPC	U	22
LL-SB9-0-0.5-022613	13-3797-WF26E	EPA 1613B	Total HpCDF	83.1	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total TCDF	4.72	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	2,3,7,8-TCDD	0.314	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total TCDD	4.14	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	2,3,4,7,8-PeCDF	0.802	pg/g	JEMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total PeCDF	19.1	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	1,2,3,7,8-PeCDD	1.27	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total PeCDD	15	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	1,2,3,7,8,9-HxCDF	0.429	pg/g	JEMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total HxCDF	49.6	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total HxCDD	73.8	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	1,2,3,4,7,8,9-HpCDF	2.24	pg/g	EMPC	U	22
LL-SB9-1.5-2-022613	13-3798-WF26F	EPA 1613B	Total HpCDF	124	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total TCDF	23.9	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total TCDD	13.6	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total PeCDF	88	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total PeCDD	95.4	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total HxCDF	278	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total HxCDD	366	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	Total HpCDF	938	pg/g	EMPC	U	22
LL-SB5-4-5-022613	13-3799-WF26G	EPA 1613B	OCDD	15600	pg/g	E	J	20
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	2,3,7,8-TCDF	0.385	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total TCDF	9.63	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	2,3,7,8-TCDD	0.177	pg/g	JEMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total TCDD	3.9	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,7,8-PeCDF	0.333	pg/g	JX	J	14
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total PeCDF	6.65	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,7,8-PeCDD	0.413	pg/g	JEMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total PeCDD	5.48	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,4,7,8-HxCDF	0.512	pg/g	JEMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,6,7,8-HxCDF	0.313	pg/g	JEMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total HxCDF	9.24	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,6,7,8-HxCDD	1.27	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	1,2,3,7,8,9-HxCDD	1.11	pg/g	EMPC	U	22
LL-SB10-0-0.5-022613	13-3800-WF26H	EPA 1613B	Total HxCDD	13.2	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total TCDF	0.0712	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total TCDD	1.23	pg/g	EMPC	U	22



**Qualified Data Summary Table  
POS Lora Lake Parcel RIFS**

Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total PeCDF	0.16	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total PeCDD	0.123	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	1,2,3,4,7,8-HxCDF	0.0632	pg/g	JEMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total HxCDF	0.53	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	1,2,3,4,6,7,8-HpCDF	0.344	pg/g	BJEMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	Total HpCDF	1.44	pg/g	EMPC	U	22
LL-SB10-1.5-2-022613	13-3801-WF26I	EPA 1613B	OCDF	1.21	pg/g	JEMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	2,3,7,8-TCDF	0.745	pg/g		J	13
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total TCDF	12.7	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	2,3,7,8-TCDD	0.516	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total TCDD	6.07	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	1,2,3,7,8-PeCDF	0.393	pg/g	JEMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total PeCDF	11	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	1,2,3,7,8-PeCDD	0.483	pg/g	JEMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total PeCDD	7.24	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	1,2,3,6,7,8-HxCDF	0.522	pg/g	JEMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	1,2,3,7,8,9-HxCDF	0.238	pg/g	JEMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total HxCDF	14.8	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total HxCDD	20.6	pg/g	EMPC	U	22
LL-SB11-0-0.5-022613	13-3802-WF26J	EPA 1613B	Total HpCDF	27.2	pg/g	EMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	Total TCDF	0.198	pg/g	EMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	2,3,7,8-TCDD	0.102	pg/g	JEMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	Total TCDD	0.59	pg/g	EMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	Total PeCDF	0.17	pg/g	EMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	Total HxCDD	0.569	pg/g	EMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	1,2,3,4,6,7,8-HpCDF	0.199	pg/g	BJEMPC	U	22
LL-SB11-1.5-2-022613	13-3803-WF26K	EPA 1613B	Total HpCDF	0.471	pg/g	EMPC	U	22