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Type I Data Package

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Project: Amtrak Wilmington
Soil Samples
Collected on 05/15/17

SDG# ATE42

GROUP	SAMPLE NUMBERS
1802521	8998234-8998253

```
PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780
```

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 06/08/2017**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Loran Carter at (717) 556-7252.

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Sample Reference List for SDG Number ATE42
with a Data Package Type of I

11289 - Stantec

Project: Amtrak Wilmington

Lab Sample Number	Client Sample ID	Collection Date	Date Received
8998234	D-11(0.0-0.3)	05/15/2017 10:25	05/17/2017 18:30
8998235	D-11(0.0-0.3)MS	05/15/2017 10:25	05/17/2017 18:30
8998236	D-11(0.0-0.3)MSD	05/15/2017 10:25	05/17/2017 18:30
8998237	DUP-1	05/15/2017 10:25	05/17/2017 18:30
8998238	D-11(0.5-0.8)	05/15/2017 10:28	05/17/2017 18:30
8998239	D-11(1.0-1.3)	05/15/2017 10:30	05/17/2017 18:30
8998240	D-11(1.5-1.8)	05/15/2017 10:31	05/17/2017 18:30
8998241	D-10(0.0-0.3)	05/15/2017 10:36	05/17/2017 18:30
8998242	D-10(0.5-0.8)	05/15/2017 10:37	05/17/2017 18:30
8998243	D-10(1.0-1.3)	05/15/2017 10:38	05/17/2017 18:30
8998244	F-10(1.0-1.3)	05/15/2017 13:26	05/17/2017 18:30
8998245	F-10(0.5-0.8)	05/15/2017 11:21	05/17/2017 18:30
8998246	G-10(0.0-0.3)	05/15/2017 11:30	05/17/2017 18:30
8998247	D-10(1.5-1.8)	05/15/2017 13:23	05/17/2017 18:30
8998248	D-8(0.0-0.3)	05/15/2017 13:02	05/17/2017 18:30
8998249	D-8(0.5-0.8)	05/15/2017 13:03	05/17/2017 18:30
8998250	C-9(0.0-0.3)	05/15/2017 12:28	05/17/2017 18:30
8998251	C-9(0.5-0.8)	05/15/2017 12:29	05/17/2017 18:30
8998252	C-8(0.0-0.3)	05/15/2017 12:32	05/17/2017 18:30
8998253	C-8(0.5-0.8)	05/15/2017 12:33	05/17/2017 18:30

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14248 PCB 10g Sonication Ext

Pesticides and/or PCBs are extracted from the sample using sonic probe with 1:1 methylene chloride and acetone. The extract is then concentrated and exchanged to hexane. Sulfuric acid, copper and florisil cleanups are performed to minimize matrix interferences.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3550B, December 1996.

10225 PCBs in Solids by 8082/3550

The sample is solvent-extracted and exchanged to hexane. Sulfuric acid and Florisil cleanups are performed to reduce potential matrix interferences. The extract is analyzed using gas chromatography on two capillary columns (primary and confirmation) with electron capture detectors.

Reference: Test Methods for Evaluating Solid Waste, SW-846 Method 8082, December 1996.

00111 Moisture
00118 Moisture
00121 Moisture Duplicate

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012, Method 2540 G-1997

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Report Date: May 24, 2017

Project: Amtrak Wilmington

Submittal Date: 05/17/2017
Group Number: 1802521
SDG: ATE42
PO Number: 213402048
State of Sample Origin: DE

Client Sample Description	Lancaster Labs (LL) #
D-11(0.0-0.3) Grab Soil	8998234
D-11(0.0-0.3)MS Grab Soil	8998235
D-11(0.0-0.3)MSD Grab Soil	8998236
DUP-1 Grab Soil	8998237
D-11(0.5-0.8) Grab Soil	8998238
D-11(1.0-1.3) Grab Soil	8998239
D-11(1.5-1.8) Grab Soil	8998240
D-10(0.0-0.3) Grab Soil	8998241
D-10(0.5-0.8) Grab Soil	8998242
D-10(1.0-1.3) Grab Soil	8998243
F-10(1.0-1.3) Grab Soil	8998244
F-10(0.5-0.8) Grab Soil	8998245
G-10(0.0-0.3) Grab Soil	8998246
D-10(1.5-1.8) Grab Soil	8998247
D-8(0.0-0.3) Grab Soil	8998248
D-8(0.5-0.8) Grab Soil	8998249
C-9(0.0-0.3) Grab Soil	8998250
C-9(0.5-0.8) Grab Soil	8998251
C-8(0.0-0.3) Grab Soil	8998252
C-8(0.5-0.8) Grab Soil	8998253

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Stantec	Attn: Jon Zerbe
Electronic Copy To	Stantec	Attn: Paul Miller
Electronic Copy To	Stantec	Attn: Steve Baggett

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: D-11(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998234
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:25 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A01 SDG#: ATE42-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.053	0.053	1
10225	PCB-1221	11104-28-2	< 0.053	0.053	1
10225	PCB-1232	11141-16-5	< 0.053	0.053	1
10225	PCB-1242	53469-21-9	< 0.053	0.053	1
10225	PCB-1248	12672-29-6	< 0.053	0.053	1
10225	PCB-1254	11097-69-1	< 0.053	0.053	1
10225	PCB-1260	11096-82-5	0.45	0.053	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	6.1	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 15:18	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-11(0.0-0.3)MS Grab Soil
Amtrak Wilmington

LL Sample # SW 8998235
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:25 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A01 SDG#: ATE42-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	0.48	0.053	1
10225	PCB-1221	11104-28-2	< 0.053	0.053	1
10225	PCB-1232	11141-16-5	< 0.053	0.053	1
10225	PCB-1242	53469-21-9	< 0.053	0.053	1
10225	PCB-1248	12672-29-6	< 0.053	0.053	1
10225	PCB-1254	11097-69-1	< 0.053	0.053	1
10225	PCB-1260	11096-82-5	0.97	0.053	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00118	Moisture	n.a.	6.1	0.50	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 15:29	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00118	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-11(0.0-0.3)MSD Grab Soil
Amtrak Wilmington

LL Sample # SW 8998236
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:25 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A01 SDG#: ATE42-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	0.45	0.052	1
10225	PCB-1221	11104-28-2	< 0.052	0.052	1
10225	PCB-1232	11141-16-5	< 0.052	0.052	1
10225	PCB-1242	53469-21-9	< 0.052	0.052	1
10225	PCB-1248	12672-29-6	< 0.052	0.052	1
10225	PCB-1254	11097-69-1	< 0.052	0.052	1
10225	PCB-1260	11096-82-5	1.5	0.052	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00118	Moisture	n.a.	6.1	0.50	1
00121	Moisture Duplicate	n.a.	5.8	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 15:40	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00118	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1
00121	Moisture Duplicate	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: DUP-1 Grab Soil
Amtrak Wilmington

LL Sample # SW 8998237
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:25 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

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West Chester PA 19380

42A02 SDG#: ATE42-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.054	0.054	1
10225	PCB-1221	11104-28-2	< 0.054	0.054	1
10225	PCB-1232	11141-16-5	< 0.054	0.054	1
10225	PCB-1242	53469-21-9	< 0.054	0.054	1
10225	PCB-1248	12672-29-6	< 0.054	0.054	1
10225	PCB-1254	11097-69-1	< 0.054	0.054	1
10225	PCB-1260	11096-82-5	0.37	0.054	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	6.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 15:52	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-11(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998238
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:28 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A03 SDG#: ATE42-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	1.6	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	6.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 16:03	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-11(1.0-1.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998239
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:30 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A04 SDG#: ATE42-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.053	0.053	1
10225	PCB-1221	11104-28-2	< 0.053	0.053	1
10225	PCB-1232	11141-16-5	< 0.053	0.053	1
10225	PCB-1242	53469-21-9	< 0.053	0.053	1
10225	PCB-1248	12672-29-6	< 0.053	0.053	1
10225	PCB-1254	11097-69-1	< 0.053	0.053	1
10225	PCB-1260	11096-82-5	0.21	0.053	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.4	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 16:15	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	2	17143820004A	05/23/2017 11:29	Larry E Bevins	1

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Analysis Report

Sample Description: D-11(1.5-1.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998240
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:31 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A05 SDG#: ATE42-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	1.0	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.7	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 16:26	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	2	17143820004B	05/23/2017 11:29	Larry E Bevins	1

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Analysis Report

Sample Description: D-10(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998241
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:36 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A06 SDG#: ATE42-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	1.1	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 16:38	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	2	17142820002A	05/22/2017 23:39	Scott W Freisher	1

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Analysis Report

Sample Description: D-10(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998242
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:37 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

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Suite 140
West Chester PA 19380

42A07 SDG#: ATE42-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.053	0.053	1
10225	PCB-1221	11104-28-2	< 0.053	0.053	1
10225	PCB-1232	11141-16-5	< 0.053	0.053	1
10225	PCB-1242	53469-21-9	< 0.053	0.053	1
10225	PCB-1248	12672-29-6	< 0.053	0.053	1
10225	PCB-1254	11097-69-1	< 0.053	0.053	1
10225	PCB-1260	11096-82-5	0.073	0.053	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 16:49	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-10(1.0-1.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998243
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 10:38 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A08 SDG#: ATE42-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.052	0.052	1
10225	PCB-1221	11104-28-2	< 0.052	0.052	1
10225	PCB-1232	11141-16-5	< 0.052	0.052	1
10225	PCB-1242	53469-21-9	< 0.052	0.052	1
10225	PCB-1248	12672-29-6	< 0.052	0.052	1
10225	PCB-1254	11097-69-1	< 0.052	0.052	1
10225	PCB-1260	11096-82-5	0.22	0.052	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 17:01	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: F-10(1.0-1.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998244
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 13:26 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A09 SDG#: ATE42-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.054	0.054	1
10225	PCB-1221	11104-28-2	< 0.054	0.054	1
10225	PCB-1232	11141-16-5	< 0.054	0.054	1
10225	PCB-1242	53469-21-9	< 0.054	0.054	1
10225	PCB-1248	12672-29-6	< 0.054	0.054	1
10225	PCB-1254	11097-69-1	< 0.054	0.054	1
10225	PCB-1260	11096-82-5	0.30	0.054	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	7.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 17:12	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003A	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: F-10(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998245
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 11:21 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A10 SDG#: ATE42-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 12	12	200
10225	PCB-1221	11104-28-2	< 12	12	200
10225	PCB-1232	11141-16-5	< 12	12	200
10225	PCB-1242	53469-21-9	< 12	12	200
10225	PCB-1248	12672-29-6	< 12	12	200
10225	PCB-1254	11097-69-1	< 12	12	200
10225	PCB-1260	11096-82-5	150	12	200
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	18.8	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 17:24	Kirby B Turner	200
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

Sample Description: G-10(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998246
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 11:30 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A11 SDG#: ATE42-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.4	5.4	100
10225	PCB-1221	11104-28-2	< 5.4	5.4	100
10225	PCB-1232	11141-16-5	< 5.4	5.4	100
10225	PCB-1242	53469-21-9	< 5.4	5.4	100
10225	PCB-1248	12672-29-6	< 5.4	5.4	100
10225	PCB-1254	11097-69-1	< 5.4	5.4	100
10225	PCB-1260	11096-82-5	44	5.4	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	8.4	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 17:57	Kirby B Turner	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-10(1.5-1.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998247
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 13:23 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A12 SDG#: ATE42-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.056	0.056	1
10225	PCB-1221	11104-28-2	< 0.056	0.056	1
10225	PCB-1232	11141-16-5	< 0.056	0.056	1
10225	PCB-1242	53469-21-9	< 0.056	0.056	1
10225	PCB-1248	12672-29-6	< 0.056	0.056	1
10225	PCB-1254	11097-69-1	< 0.056	0.056	1
10225	PCB-1260	11096-82-5	0.41	0.056	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	11.8	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 18:08	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-8(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998248
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 13:02 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A13 SDG#: ATE42-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.052	0.052	1
10225	PCB-1221	11104-28-2	< 0.052	0.052	1
10225	PCB-1232	11141-16-5	< 0.052	0.052	1
10225	PCB-1242	53469-21-9	< 0.052	0.052	1
10225	PCB-1248	12672-29-6	< 0.052	0.052	1
10225	PCB-1254	11097-69-1	< 0.052	0.052	1
10225	PCB-1260	11096-82-5	0.058	0.052	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 18:31	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: D-8(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998249
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 13:03 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A14 SDG#: ATE42-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.52	0.52	10
10225	PCB-1221	11104-28-2	< 0.52	0.52	10
10225	PCB-1232	11141-16-5	< 0.52	0.52	10
10225	PCB-1242	53469-21-9	< 0.52	0.52	10
10225	PCB-1248	12672-29-6	< 0.52	0.52	10
10225	PCB-1254	11097-69-1	< 0.52	0.52	10
10225	PCB-1260	11096-82-5	4.2	0.52	10
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 19:06	Kirby B Turner	10
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: C-9(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998250
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 12:28 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A15 SDG#: ATE42-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	2.6	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.1	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 19:17	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: C-9(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998251
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 12:29 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A16 SDG#: ATE42-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	0.62	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.9	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 19:28	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: C-8(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998252
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 12:32 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
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42A17 SDG#: ATE42-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	2.1	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	6.8	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 19:40	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

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Analysis Report

Sample Description: C-8(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 8998253
LL Group # 1802521
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/15/2017 12:33 by JZ

Submitted: 05/17/2017 18:30
Reported: 05/24/2017 07:36

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

42A18 SDG#: ATE42-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.053	0.053	1
10225	PCB-1221	11104-28-2	< 0.053	0.053	1
10225	PCB-1232	11141-16-5	< 0.053	0.053	1
10225	PCB-1242	53469-21-9	< 0.053	0.053	1
10225	PCB-1248	12672-29-6	< 0.053	0.053	1
10225	PCB-1254	11097-69-1	< 0.053	0.053	1
10225	PCB-1260	11096-82-5	0.37	0.053	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.1	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171380028A	05/21/2017 19:51	Kirby B Turner	1
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171380028A	05/19/2017 08:00	Kayla A Yuditsky	1
00111	Moisture	SM 2540 G-1997	1	17139820003B	05/19/2017 09:14	Larry E Bevins	1

Quality Control Summary

Client Name: Stantec
Reported: 05/24/2017 07:36

Group Number: 1802521

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/kg	LOQ mg/kg
Batch number: 171380028A	Sample number(s): 8998234-8998253	
PCB-1016	< 0.051	0.051
PCB-1221	< 0.051	0.051
PCB-1232	< 0.051	0.051
PCB-1242	< 0.051	0.051
PCB-1248	< 0.051	0.051
PCB-1254	< 0.051	0.051
PCB-1260	< 0.051	0.051

LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 171380028A	Sample number(s): 8998234-8998253								
PCB-1016	0.501	0.458			92		80-121		
PCB-1260	0.504	0.493			98		84-125		
	%	%	%	%					
Batch number: 17139820003A	Sample number(s): 8998234-8998238,8998242-8998244								
Moisture	89.5	89.4			100		99-101		
Moisture	89.5	89.4			100		99-101		
Moisture Duplicate	89.5	89.4			100		99-101		
Batch number: 17139820003B	Sample number(s): 8998245-8998253								
Moisture	89.5	89.4			100		99-101		
Batch number: 17142820002A	Sample number(s): 8998241								
Moisture	89.5	89.36			100		99-101		
Batch number: 17143820004A	Sample number(s): 8998239								
Moisture	89.5	89.39			100		99-101		
Batch number: 17143820004B	Sample number(s): 8998240								
Moisture	89.5	89.39			100		99-101		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 05/24/2017 07:36

Group Number: 1802521

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 171380028A	Sample number(s): 8998234-8998253 UNSPK: 8998234									
PCB-1016	< 0.050	0.492	0.448	0.479	0.425	91	89	80-121	5	50
PCB-1260	0.426	0.496	0.912	0.482	1.39	98	201*	84-125	42	50

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 17139820003A	Sample number(s): 8998234-8998238,8998242-8998244 BKG: 8998234, P998234			
Moisture	6.09	5.76	6*	5
Moisture	6.09	5.76	6*	5
Moisture Duplicate	6.09	5.76	6*	5
Batch number: 17139820003B	Sample number(s): 8998245-8998253 BKG: 8998245			
Moisture	18.78	18.84	0	5
Batch number: 17142820002A	Sample number(s): 8998241 BKG: 8998241			
Moisture	5.34	5.73	7*	5
Batch number: 17143820004A	Sample number(s): 8998239 BKG: 8998239			
Moisture	4.44	4.50	1	5
Batch number: 17143820004B	Sample number(s): 8998240 BKG: 8998240			
Moisture	5.66	5.91	4	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Solids by 8082/3550
Batch number: 171380028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8998234	103	98
8998235	103	106
8998236	98	99
8998237	101	104
8998238	98	98
8998239	102	104

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 05/24/2017 07:36

Group Number: 1802521

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Solids by 8082/3550
Batch number: 171380028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8998240	88	108
8998241	95	103
8998242	98	104
8998243	102	103
8998244	101	102
8998245	107	206*
8998246	108	168*
8998247	94	103
8998248	98	99
8998249	96	109
8998250	90	101
8998251	92	101
8998252	89	100
8998253	101	93
Blank	105	102
LCS	102	110
MS	103	106
MSD	98	99
Limits:	61-152	48-164

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1802521 Sample # 8998234-53

COC # 528949 1 of 11

For Lab Use Only
FSC:
SCR#:

Client Information

Client: Stantec	Acct. #:
Project Name/#: Amtrak Wilmington	PWSID #:
Project Manager: Paul Miller	P.O. #:
Sampler: Jon Zerbe	Quote #:
State where samples were collected: DE	For Compliance: Yes ☐ No ☐

Matrix: Soil ☒ Sediment ☐ Tissue ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other:

Analysis Requested — Preservation Codes

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Other	Total # of Containers	PCBs 3550B	Remarks
D-11 (0.0-0.3)	5-15-17	1025	X		X			1	X	
D-11 (0.0-0.3) MS		1025								
D-11 (0.0-0.3) MSD		1025								
DUP-1		1025								
D-11 (0.5-0.8)		1028								
D-11 (1.0-1.3)		1030								
D-11 (1.5-1.8)		1031								
D-10 (0.0-0.3)		1036								
D-10 (0.5-0.8)		1037								
D-10 (1.0-1.3)		1038								

Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address: Paul.Miller@Stantec.com

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-17-17	1215	[signature]	5/17/17	1215
[signature]	5/17/17	1830			
			[signature]	5/17/17	1830

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

EDD Required? Yes No
If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.5-2.5 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1802521 Sample # 8998234-53

COC # 528905 2 of 11

For Lab Use Only
FSC:
SCR#:

Client Information

Client: Stantec
Acct. #:
Project Name/#: Amtrak Wilmington
PWSID #:
Project Manager: Paul Miller
P.O. #:
Sampler: Jon Zerbe
Quote #:
State where samples were collected: DE
For Compliance: Yes ☐ No ☐

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	Analysis Requested: PCBs 3550B
F-10 (1.0-1.3)	5-15-17	1326	X		X			1	X
F-10 (0.5-0.8)	5-15-17	1121							
G-10 (0.0-0.3)		1130							
D-10 (1.5-1.8)		1323							
D-8 (0.0-0.3)		1302							
D-8 (0.5-0.8)		1303							
C-9 (0.0-0.3)		1228							
C-9 (0.5-0.8)		1229							
C-8 (0.0-0.3)		1232							
C-8 (0.5-0.8)		1233							

Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:
E-mail address: Paul.Miller@Stantec.com

Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-17-17	1215	[signature]	5/17/17	1215
[signature]	5/17/17	1700			
			[signature]	5/17/17	1830

EDD Required? Yes No
If yes, format:
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS FedEx Other
Temperature upon receipt 1.5-2.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 183962

Group Number(s): 1802521

Client: Stantec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/17/2017 18:30
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	DE		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Karen Diem (3060) at 20:29 on 05/17/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.5	DT	Wet	Y	Bagged	N
2	DT121	2.5	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
EB-20170515	2	1	

2425 New Holland Pike
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Polychlorinated Biphenyls (PCBs) Data

Case Narrative/Conformance Summary

Polychlorinated Biphenyls (PCBs)

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ATE42

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
8998234	D-11(0.0-0.3)		X	1	Unspiked
8998235	D-11(0.0-0.3)MS		X	1	Matrix Spike
8998236	D-11(0.0-0.3)MSD		X	1	Matrix Spike Duplicate
8998237	DUP-1		X	1	Field Duplicate Sample
8998238	D-11(0.5-0.8)		X	5	
8998239	D-11(1.0-1.3)		X	1	
8998240	D-11(1.5-1.8)		X	5	
8998241	D-10(0.0-0.3)		X	5	
8998242	D-10(0.5-0.8)		X	1	
8998243	D-10(1.0-1.3)		X	1	
8998244	F-10(1.0-1.3)		X	1	
8998245	F-10(0.5-0.8)		X	200	
8998246	G-10(0.0-0.3)		X	100	
8998247	D-10(1.5-1.8)		X	1	
8998248	D-8(0.0-0.3)		X	1	
8998249	D-8(0.5-0.8)		X	10	
8998250	C-9(0.0-0.3)		X	5	
8998251	C-9(0.5-0.8)		X	5	
8998252	C-8(0.0-0.3)		X	5	
8998253	C-8(0.5-0.8)		X	1	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

(Sample number(s): 8998234-8998253: Analysis: 10225)
For dual column analyses in which the calibration (initial and/or

Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ATE42

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

continuing) response is outside the acceptance criteria on one column and within criteria on the second column affected analytes are reported from the compliant column. The sample raw data identifies the column used to report each analyte.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD results.

Batch#: 171380028A (Sample number(s): 8998234-8998253, UNSPK: 8998234)
The recovery(ies) for the following analyte(s) in the MSD exceeded the acceptance window indicating a positive bias:PCB-1260

Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

Batch#: 171380028A (Sample number(s): 8998234-8998253, UNSPK: 8998234)
The recovery(ies) for the following surrogate(s) exceeded the acceptance window:
Decachlorobiphenyl (8998245, 8998246)

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Quality Control and Calibration Summary Forms

Polychlorinated Biphenyls (PCBs)

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Quality Control Reference List
Pesticide Residue Analysis

CLIENT: Stantec
SDG: ATE42

Fraction: Polychlorinated Biphenyls (PCBs)

Analysis	Batch Number	Sample Number	Analysis Date
PCBs in Solids by 8082/3550	171380028A	PBLK28138	05/21/2017 14:55:00
		LCS28138	05/21/2017 15:06:00
		8998234 UNSPK	05/21/2017 15:18:00
		8998235 MS	05/21/2017 15:29:00
		8998236 MSD	05/21/2017 15:40:00
		8998237	05/21/2017 15:52:00
		8998238	05/21/2017 16:03:00
		8998239	05/21/2017 16:15:00
		8998240	05/21/2017 16:26:00
		8998241	05/21/2017 16:38:00
		8998242	05/21/2017 16:49:00
		8998243	05/21/2017 17:01:00
		8998244	05/21/2017 17:12:00
		8998245	05/21/2017 17:24:00
		8998246	05/21/2017 17:57:00
		8998247	05/21/2017 18:08:00
		8998248	05/21/2017 18:31:00
		8998249	05/21/2017 19:06:00
		8998250	05/21/2017 19:17:00
		8998251	05/21/2017 19:28:00
		8998252	05/21/2017 19:40:00
		8998253	05/21/2017 19:51:00

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Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: ATE42
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

171380028A / PBLK28138 **Analyte**	**Analysis Date**	**Blank Results**	**Units**	**MDL**	**LOQ**
PCB-1016	05/21/17	N.D.	mg/kg	0.0099	0.051
PCB-1221	05/21/17	N.D.	mg/kg	0.015	0.051
PCB-1232	05/21/17	N.D.	mg/kg	0.012	0.051
PCB-1242	05/21/17	N.D.	mg/kg	0.012	0.051
PCB-1248	05/21/17	N.D.	mg/kg	0.0099	0.051
PCB-1254	05/21/17	N.D.	mg/kg	0.013	0.051
PCB-1260	05/21/17	N.D.	mg/kg	0.012	0.051

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Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: ATE42
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

171380028A	**Decachlorobiphenyl**		**Tetrachloro-m-xylene**	
	Spike Added	29.3 ug/kg	**Spike Added**	29.2 ug/kg
Sample	**% Recovery**	**Limits**	**% Recovery**	**Limits**
PBLK28138	102	48 - 164	105	61 - 152
LCS28138	110	48 - 164	102	61 - 152
8998234 UNSPK	98	48 - 164	103	61 - 152
8998235 MS	106	48 - 164	103	61 - 152
8998236 MSD	99	48 - 164	98	61 - 152
8998237	104	48 - 164	101	61 - 152
8998238	98	48 - 164	98	61 - 152
8998239	104	48 - 164	102	61 - 152
8998240	108	48 - 164	88	61 - 152
8998241	103	48 - 164	95	61 - 152
8998242	104	48 - 164	98	61 - 152
8998243	103	48 - 164	102	61 - 152
8998244	102	48 - 164	101	61 - 152
8998245	206 *	48 - 164	107	61 - 152
8998246	168 *	48 - 164	108	61 - 152
8998247	103	48 - 164	94	61 - 152
8998248	99	48 - 164	98	61 - 152
8998249	109	48 - 164	96	61 - 152
8998250	101	48 - 164	90	61 - 152
8998251	101	48 - 164	92	61 - 152
8998252	100	48 - 164	89	61 - 152
8998253	93	48 - 164	101	61 - 152

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: ATE42
Matrix: SOLID

Pesticide Residue Analysis
Fraction: Polychlorinated Biphenyls (PCBs)

UNSPK: 8998234 MS: 8998235 MSD: 8998236 **Analyte**	Batch: **171380028A** (Sample number(s): 8998234-8998253)								
	Spike Added mg/kg MS/MSD	**Unspiked Conc mg/kg**	**MS Conc mg/kg**	**MSD Conc mg/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	0.492 / 0.479	N.D.	0.448	0.425	91	89	80-121	5	50
PCB-1260	0.496 / 0.482	0.426	0.912	1.39	98	201 *	84-125	42	50

Comments:
(2) The unspiked sample result is greater than four times the spike added.
* = Out of Specification

Results are being reported on an as received basis.

Lancaster Laboratories Environmental

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: ATE42
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

LCS: LCS28138	Batch: **171380028A** (Sample number(s): 8998234-8998253)							
Analyte	**Spike Added mg/kg**	**LCS Conc mg/kg**	**LCSD Conc mg/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	0.501	0.458	NA	92	NA	80-121	NA	NA
PCB-1260	0.504	0.493	NA	98	NA	84-125	NA	NA

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	2.92	2.92	2.92	2.92	2.92	2.92	2.89	2.95
Decachlorobiphenyl	6.61	6.61	6.61	6.61	6.61	6.61	6.58	6.64

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	1.10E+05	1.13E+05	1.14E+05	1.16E+05	1.16E+05	1.14E+05	2
Decachlorobiphenyl	7.29E+04	6.92E+04	6.43E+04	6.84E+04	6.93E+04	6.88E+04	4

Average % RSD: 3

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.18	3.16	3.20	2306	2052	1	50.01	115327	9
					2149		2	100.02	214919	
					2049		3	200.04	409975	
					1904		4	500.1	952439	
					1851		5	1000.2	1850936	
	2	3.39	3.37	3.41	2406	2095	1	50.01	120312	10
					2147		2	100.02	214700	
					2084		3	200.04	416894	
					1887		4	500.1	943890	
					1952		5	1000.2	1952608	
	3	3.51	3.49	3.53	2634	2359	1	50.01	131734	8
					2422		2	100.02	242210	
					2378		3	200.04	475744	
					2245		4	500.1	1122490	
					2116		5	1000.2	2116157	
	4	3.73	3.71	3.75	2832	2613	1	50.01	141614	6
					2692		2	100.02	269286	
					2499		3	200.04	499852	
					2565		4	500.1	1282676	
					2480		5	1000.2	2480108	
	5	3.78	3.76	3.80	2304	2138	1	50.01	115235	5
					2063		2	100.02	206316	
					2097		3	200.04	419475	
					2146		4	500.1	1073439	
					2078		5	1000.2	2078035	
	6	3.98	3.96	4.00	1862	1714	1	50.01	93099	6
					1749		2	100.02	174917	
					1695		3	200.04	339155	
					1625		4	500.1	812490	
					1639		5	1000.2	1639692	
Aroclor-1221	1	3.08	3.06	3.10	983	983	1	200.1	196682	0
	2	3.13	3.11	3.15	850	850	1	200.1	170034	0
	3	3.18	3.16	3.20	2745	2745	1	200.1	549305	0
Aroclor-1232	1	3.18	3.16	3.20	2462	2462	1	200.6	493963	0
	2	3.40	3.38	3.42	991	991	1	200.6	198764	0
	3	3.51	3.49	3.53	1087	1087	1	200.6	218093	0
	4	3.73	3.71	3.75	1179	1179	1	200.6	236587	0
	5	3.79	3.77	3.81	925	925	1	200.6	185481	0
	6	3.98	3.96	4.00	715	715	1	200.6	143380	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.18	3.16	3.20	1758	1758	1	200	351560	0
	2	3.40	3.38	3.42	1736	1736	1	200	347157	0
	3	3.51	3.49	3.53	1901	1901	1	200	380135	0
	4	3.73	3.71	3.75	2138	2138	1	200	427632	0
	5	3.79	3.77	3.81	1674	1674	1	200	334814	0
	6	3.98	3.96	4.00	1369	1369	1	200	273708	0
Aroclor-1248	1	3.78	3.76	3.80	1282	1161	1	50.16	64312	6
					1183		2	100.32	118635	
					1125		3	200.64	225668	
					1116		4	501.6	559879	
					1097		5	1003.2	1100756	
	2	3.85	3.83	3.87	2405	2111	1	50.16	120639	10
					2249		2	100.32	225584	
					2048		3	200.64	411007	
					1936		4	501.6	971043	
					1915		5	1003.2	1921107	
	3	3.98	3.96	4.00	2682	2486	1	50.16	134537	7
					2635		2	100.32	264307	
					2430		3	200.64	487480	
					2304		4	501.6	1155522	
					2378		5	1003.2	2385746	
	4	4.07	4.05	4.09	2214	2066	1	50.16	111038	5
					2147		2	100.32	215342	
					2007		3	200.64	402590	
					2002		4	501.6	1004437	
					1962		5	1003.2	1968562	
	5	4.25	4.23	4.27	2508	2448	1	50.16	125818	3
					2554		2	100.32	256218	
					2351		3	200.64	471790	
					2445		4	501.6	1226616	
					2380		5	1003.2	2387278	
	6	4.63	4.61	4.65	1934	1794	1	50.16	96997	5
					1829		2	100.32	183459	
					1776		3	200.64	356304	
					1712		4	501.6	858936	
					1721		5	1003.2	1726522	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.23	4.21	4.25	3160	2886	1	50.3	158940	7
					3033		2	100.6	305110	
					2743		3	251.5	689965	
					2779		4	503	1397875	
					2715		5	1006	2731089	
	2	4.57	4.55	4.59	3132	2900	1	50.3	157523	5
					2830		2	100.6	284736	
					2729		3	251.5	686384	
					2891		4	503	1454115	
					2920		5	1006	2937191	
	3	4.63	4.61	4.65	6023	5858	1	50.3	302959	2
					5927		2	100.6	596274	
					5739		3	251.5	1443245	
					5825		4	503	2930175	
					5775		5	1006	5809577	
	4	4.75	4.73	4.77	1973	1758	1	50.3	99229	8
					1826		2	100.6	183692	
					1652		3	251.5	415415	
					1688		4	503	849024	
					1653		5	1006	1662863	
	5	4.85	4.83	4.87	4050	3871	1	50.3	203718	3
					3913		2	100.6	393671	
					3754		3	251.5	944204	
					3728		4	503	1875048	
					3910		5	1006	3933572	
	6	5.16	5.14	5.18	4097	3976	1	50.3	206064	2
					3959		2	100.6	398325	
					3832		3	251.5	963852	
					3979		4	503	2001599	
					4015		5	1006	4038610	

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	4.75	4.73	4.77	4426	4191	1	50.05	221540	3
					4127		2	100.1	413142	
					4175		3	200.2	835899	
					4139		4	500.5	2071612	
					4086		5	1001	4090584	
	2	5.05	5.03	5.07	2343	2316	1	50.05	117261	1
					2319		2	100.1	232102	
					2267		3	200.2	453871	
					2315		4	500.5	1158517	
					2335		5	1001	2337167	
	3	5.22	5.20	5.24	2873	2711	1	50.05	143814	5
					2785		2	100.1	278765	
					2740		3	200.2	548490	
					2619		4	500.5	1310605	
					2540		5	1001	2543038	
	4	5.39	5.37	5.41	3345	3094	1	50.05	167397	8
					2812		2	100.1	281443	
					3269		3	200.2	654544	
					3228		4	500.5	1615414	
					2815		5	1001	2818184	
	5	5.63	5.61	5.65	7610	7500	1	50.05	380872	4
					6993		2	100.1	700029	
					7571		3	200.2	1515702	
					7688		4	500.5	3847696	
					7636		5	1001	7643374	
	6	5.84	5.82	5.86	4241	4213	1	50.05	212271	2
					4252		2	100.1	425595	
					4283		3	200.2	857403	
					4100		4	500.5	2051991	
					4189		5	1001	4193396	
Aroclor-1262	1	5.23	5.21	5.25	4992	4992	1	200.8	1002432	0
	2	5.39	5.37	5.41	4033	4033	1	200.8	809822	0
	3	5.63	5.61	5.65	9748	9748	1	200.8	1957322	0
	4	5.83	5.81	5.85	5387	5387	1	200.8	1081708	0
	5	5.89	5.87	5.91	2669	2669	1	200.8	535861	0
	6	6.27	6.25	6.29	3247	3247	1	200.8	651921	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.83	5.81	5.85	11979	11979	1	201	2407763	0
	2	5.89	5.87	5.91	10452	10452	1	201	2100808	0
	3	6.02	6.00	6.04	9746	9746	1	201	1958924	0
	4	6.09	6.07	6.11	2234	2234	1	201	449104	0
	5	6.27	6.25	6.29	4026	4026	1	201	809132	0
	6	6.47	6.45	6.49	31503	31503	1	201	6332050	0

File Name: V:\CP20\20pcbs1713701.CAL
Version: 7

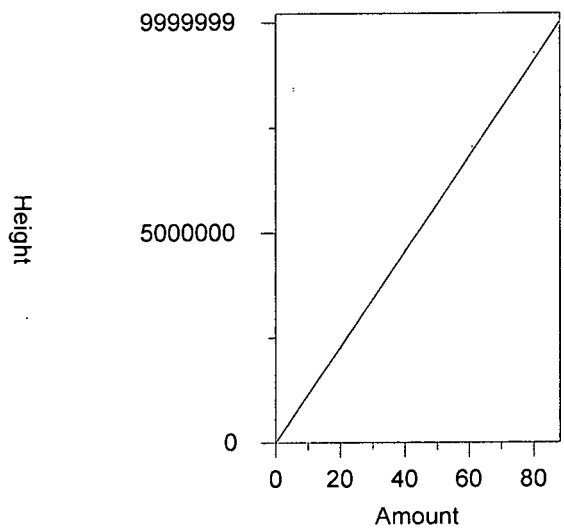
Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 50
Amount units: PPB
No default component

Method of calculating data point averages: Current update equal to cal data
Print calibration update report

All levels are normal data points.

1 TCX



Expected retention time: 2.923 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0.1
Low alarm limit: 0
Component constant: 0

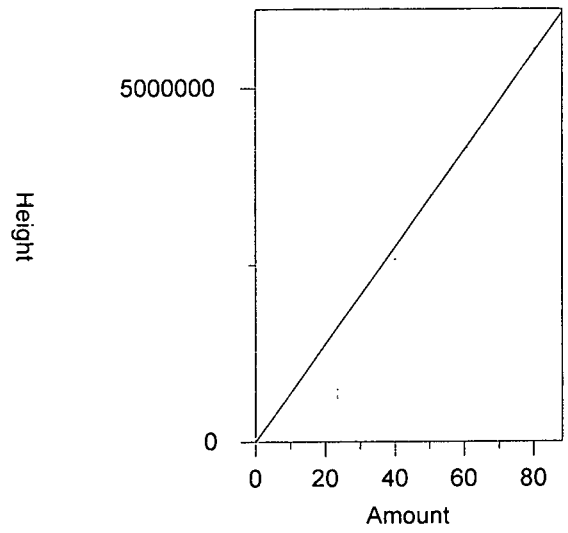
Single peak quantification by height

Y = 113640.5 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9990097
Average error: 1.793%
Average CF: 113640.5
RSD: 2.329%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	439163.3	109517	-3.629	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.007.BNC
2	20.04	2257924	112670.9	-0.853	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.008.BNC
3	40.08	4583477	114358.2	0.632	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.009.BNC
4	60.92	7055128	115809.7	1.909	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.010.BNC
5	80.16	9286271	115846.7	1.941	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.011.BNC

2 DCB



Expected retention time:	6.609 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0.2
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 68816.38 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9979855
Average error:	2.906%
Average CF:	68816.38
RSD:	4.470%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	292285.8	72889.23	5.918	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
2	20.04	1387708	69246.91	0.626	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
3	40.08	2576136	64274.85	-6.599	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
4	60.92	4164353	68357.73	-0.666	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.01
5	80.16	5556144	69313.17	0.722	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.01

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	2.62	2.62	2.62	2.62	2.62	2.62	2.59	2.65
Decachlorobiphenyl	6.11	6.11	6.11	6.11	6.11	6.11	6.08	6.14

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	6.59E+05	6.78E+05	7.07E+05	7.07E+05	7.06E+05	6.91E+05	3
Decachlorobiphenyl	5.13E+05	4.93E+05	4.78E+05	4.79E+05	4.74E+05	4.87E+05	3

Average % RSD: 3

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	2.90	2.88	2.92	12697	11308	1	50.01	634997	9
					11782		2	100.02	1178404	
					11258		3	200.04	2252085	
					10688		4	500.1	5345188	
					10113		5	1000.2	10114640	
	2	3.23	3.21	3.25	15601	14052	1	50.01	780216	8
					14579		2	100.02	1458177	
					13945		3	200.04	2789487	
					13376		4	500.1	6689352	
					12760		5	1000.2	12762260	
	3	3.42	3.40	3.44	15040	14120	1	50.01	752133	5
					14220		2	100.02	1422333	
					14267		3	200.04	2853916	
					13250		4	500.1	6626458	
					13823		5	1000.2	13825460	
	4	3.49	3.47	3.51	17197	16698	1	50.01	860044	3
					16884		2	100.02	1688703	
					16943		3	200.04	3389307	
					15981		4	500.1	7991920	
					16486		5	1000.2	16489420	
	5	3.65	3.63	3.67	15163	14030	1	50.01	758311	6
					14372		2	100.02	1437489	
					14028		3	200.04	2806160	
					13612		4	500.1	6807312	
					12973		5	1000.2	12975370	
	6	3.74	3.72	3.76	12742	12022	1	50.01	637243	4
					12267		2	100.02	1226975	
					11884		3	200.04	2377296	
					11676		4	500.1	5839000	
					11540		5	1000.2	11542480	
Aroclor-1221	1	2.79	2.77	2.81	5968	5968	1	200.1	1194106	0
	2	2.85	2.83	2.87	3679	3679	1	200.1	736099	0
	3	2.90	2.88	2.92	15260	15260	1	200.1	3053589	0
Aroclor-1232	1	2.90	2.88	2.92	13815	13815	1	200.6	2771218	0
	2	3.23	3.21	3.25	6677	6677	1	200.6	1339343	0
	3	3.42	3.40	3.44	5973	5973	1	200.6	1198255	0
	4	3.49	3.47	3.51	7339	7339	1	200.6	1472147	0
	5	3.68	3.66	3.70	2004	2004	1	200.6	402038	0
	6	3.75	3.73	3.77	5254	5254	1	200.6	1054047	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	2.90	2.88	2.92	9723	9723	1	200	1944532	0
	2	3.23	3.21	3.25	11612	11612	1	200	2322300	0
	3	3.42	3.40	3.44	11419	11419	1	200	2283706	0
	4	3.49	3.47	3.51	13050	13050	1	200	2610073	0
	5	3.66	3.64	3.68	10745	10745	1	200	2148996	0
	6	3.75	3.73	3.77	9625	9625	1	200	1924911	0
Aroclor-1248	1	3.42	3.40	3.44	6114	5569	1	50.16	306693	9
					5944		2	100.32	596263	
					5630		3	200.64	1129540	
					4881		4	501.6	2448493	
					5276		5	1003.2	5292533	
	2	3.53	3.51	3.55	17248	15707	1	50.16	865156	7
					15984		2	100.32	1603513	
					15904		3	200.64	3190942	
					14927		4	501.6	7487300	
					14471		5	1003.2	14516990	
	3	3.65	3.63	3.67	21134	19623	1	50.16	1060079	6
					20336		2	100.32	2040152	
					19443		3	200.64	3901099	
					18952		4	501.6	9506378	
					18251		5	1003.2	18309420	
	4	3.74	3.72	3.76	14897	14169	1	50.16	747212	4
					14415		2	100.32	1446082	
					13940		3	200.64	2796950	
					14002		4	501.6	7023268	
					13594		5	1003.2	13637050	
	5	3.88	3.86	3.90	28043	26838	1	50.16	1406614	3
					27418		2	100.32	2750550	
					26688		3	200.64	5354666	
					26132		4	501.6	13107570	
					25910		5	1003.2	25993180	
	6	4.24	4.22	4.26	12708	11866	1	50.16	637437	6
					12266		2	100.32	1230562	
					11833		3	200.64	2374166	
					11589		4	501.6	5812918	
					10934		5	1003.2	10969450	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.18	4.16	4.20	21640	20906	1	50.3	1088486	4
					21189		2	100.6	2131657	
					19723		3	251.5	4960347	
					20502		4	503	10312280	
					21475		5	1006	21603490	
	2	4.24	4.22	4.26	39358	37094	1	50.3	1979718	4
					37156		2	100.6	3737878	
					35247		3	251.5	8864505	
					36757		4	503	18488900	
					36953		5	1006	37174280	
	3	4.33	4.31	4.35	18912	17256	1	50.3	951254	6
					17592		2	100.6	1769741	
					16589		3	251.5	4172151	
					16648		4	503	8373806	
					16538		5	1006	16637400	
	4	4.40	4.38	4.42	26081	24936	1	50.3	1311884	3
					24554		2	100.6	2470128	
					23888		3	251.5	6007734	
					25160		4	503	12655280	
					24997		5	1006	25147190	
	5	4.46	4.44	4.48	16107	14360	1	50.3	810169	7
					14494		2	100.6	1458073	
					13670		3	251.5	3438030	
					13779		4	503	6931070	
					13749		5	1006	13831460	
	6	4.62	4.60	4.64	17518	17494	1	50.3	881164	3
					16723		2	100.6	1682300	
					17139		3	251.5	4310358	
					18236		4	503	9172670	
					17855		5	1006	17962290	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	4.33	4.31	4.35	29544	28234	1	50.05	1478677	3
					28490		2	100.1	2851820	
					27854		3	200.2	5576324	
					28212		4	500.5	14120120	
					27069		5	1001	27096230	
	2	4.46	4.44	4.48	34749	33295	1	50.05	1739197	3
					32298		2	100.1	3233009	
					33532		3	200.2	6713137	
					32974		4	500.5	16503720	
					32921		5	1001	32954410	
	3	4.57	4.55	4.59	27188	26788	1	50.05	1360754	1
					26586		2	100.1	2661244	
					26373		3	200.2	5279960	
					27218		4	500.5	13622760	
					26575		5	1001	26601510	
	4	4.92	4.90	4.94	21623	20591	1	50.05	1082249	3
					20745		2	100.1	2076618	
					19976		3	200.2	3999104	
					19960		4	500.5	9989858	
					20653		5	1001	20673490	
	5	5.11	5.09	5.13	46103	46730	1	50.05	2307434	3
					45013		2	100.1	4505800	
					48156		3	200.2	9640877	
					47069		4	500.5	23558250	
					47308		5	1001	47355350	
	6	5.37	5.35	5.39	30488	31260	1	50.05	1525920	3
					32319		2	100.1	3235155	
					32121		3	200.2	6430639	
					29795		4	500.5	14912590	
					31578		5	1001	31609230	
Aroclor-1262	1	4.73	4.71	4.75	32412	32412	1	200.8	6508424	0
	2	4.92	4.90	4.94	32242	32242	1	200.8	6474238	0
	3	5.11	5.09	5.13	61328	61328	1	200.8	12314600	0
	4	5.33	5.31	5.35	25412	25412	1	200.8	5102818	0
	5	5.37	5.35	5.39	40904	40904	1	200.8	8213507	0
	6	5.75	5.73	5.77	22137	22137	1	200.8	4445078	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.33	5.31	5.35	82763	82763	1	201	16635460	0
	2	5.37	5.35	5.39	83795	83795	1	201	16842710	0
	3	5.53	5.51	5.55	71989	71989	1	201	14469800	0
	4	5.59	5.57	5.61	17405	17405	1	201	3498455	0
	5	5.75	5.73	5.77	28206	28206	1	201	5669354	0
	6	5.95	5.93	5.97	214367	214367	1	201	43087670	0

File Name: V:\CP20\20pcbs1713701b.CAL
Version: 7

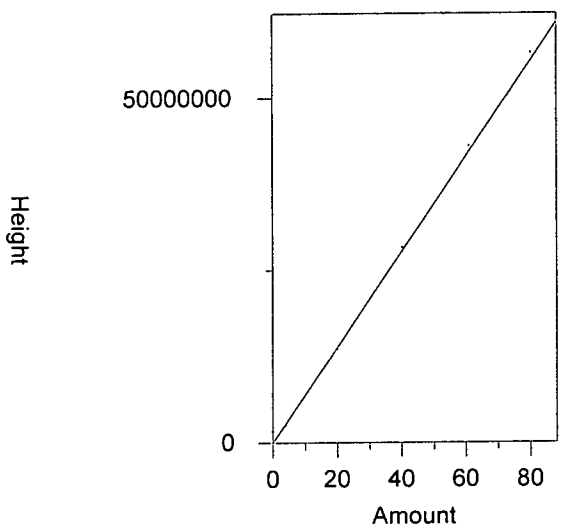
Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 50
Amount units: PPB
No default component

Method of calculating data point averages: Current update equal to cal data
Print calibration update report

All levels are normal data points.

1 TCX



Expected retention time: 2.616 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0.1
Low alarm limit: 0
Component constant: 0

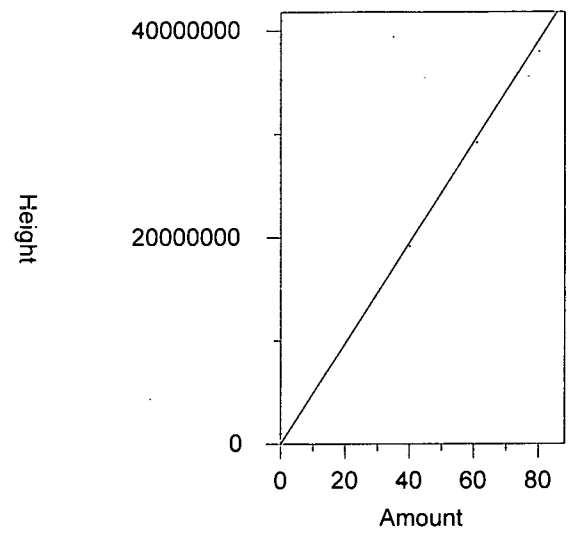
Single peak quantification by height

Y = 691308.8 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9985253
Average error: 2.688%
Average CF: 691308.8
RSD: 3.220%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	2640776	658547.6	-4.739	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
2	20.04	1.357936E+07	677612.8	-1.981	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
3	40.08	2.834864E+07	707301.4	2.313	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
4	60.92	4.309731E+07	707441.1	2.334	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.01
5	80.16	5.65642E+07	705641.2	2.073	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.01

2 DCB



Expected retention time:	6.108 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0.2
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 487178.5 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9980877
Average error:	2.557%
Average CF:	487178.5
RSD:	3.294%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	2056760	512907.7	5.281	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
2	20.04	9871559	492592.8	1.111	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
3	40.08	1.915147E+07	477831.1	-1.919	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
4	60.92	2.917417E+07	478893.2	-1.701	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
5	80.16	3.796923E+07	473668	-2.773	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 21:52

Lab File ID: 20PCBS17137001.029.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC16XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	40.05	40.08	0
Decachlorobiphenyl	6.62	6.58	6.64	36.85	40.08	-8
Aroclor-1016	3.18	3.16	3.20	203.20	201.00	1
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	191.43	201.80	-5
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 4

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 21:52

Lab File ID: 20PCBS17137001B.029.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC16XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	41.22	40.08	3
Decachlorobiphenyl	6.11	6.08	6.14	36.08	40.08	-10
Aroclor-1016	2.90	2.88	2.92	200.28	201.00	0
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.66	3.63	3.67			
	3.75	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	196.86	201.80	-2
	4.47	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:03

Lab File ID: 20PCBS17137001.030.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC48XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	41.10	40.08	3
Decachlorobiphenyl	6.61	6.58	6.64	37.77	40.08	-6
Aroclor-1248	3.79	3.76	3.80	203.00	200.00	1
	3.86	3.83	3.87			
	3.98	3.96	4.00			
	4.07	4.05	4.09			
	4.25	4.23	4.27			
	4.64	4.61	4.65			

Compounds 8 Average of %D: 3

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:03

Lab File ID: 20PCBS17137001B.030.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC48XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	41.77	40.08	4
Decachlorobiphenyl	6.11	6.08	6.14	37.97	40.08	-5
Aroclor-1248	3.42	3.40	3.44	206.77	200.00	3
	3.53	3.51	3.55			
	3.66	3.63	3.67			
	3.75	3.72	3.76			
	3.88	3.86	3.90			
	4.24	4.22	4.26			

Compounds 8 Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:15

Lab File ID: 20PCBS17137001.031.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC54XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	20.11	20.00	1
Decachlorobiphenyl	6.61	6.58	6.64	18.42	20.12	-8
Aroclor-1254	4.23	4.21	4.25	237.50	250.00	-5
	4.57	4.55	4.59			
	4.64	4.61	4.65			
	4.76	4.73	4.77			
	4.85	4.83	4.87			
	5.17	5.14	5.18			

Compounds 8 Average of %D: 5

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:15

Lab File ID: 20PCBS17137001B.031.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC54XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	20.63	20.00	3
Decachlorobiphenyl	6.11	6.08	6.14	18.24	20.12	-9
Aroclor-1254	4.18	4.16	4.20	239.96	250.00	-4
	4.24	4.22	4.26			
	4.33	4.31	4.35			
	4.40	4.38	4.42			
	4.47	4.44	4.48			
	4.62	4.60	4.64			

Compounds 8 Average of %D: 5

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/21/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 14:32

Lab File ID: 20PCBS17137004.005.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163CQ Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.93	2.89	2.95	39.83	40.08	-1
Decachlorobiphenyl	6.62	6.58	6.64	37.15	40.08	-7
Aroclor-1016	3.18	3.16	3.20	196.84	200.04	-2
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	190.81	200.20	-5
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 4

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/21/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 14:32

Lab File ID: 20PCBS17137004B.005.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163CQ Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	40.83	40.08	2
Decachlorobiphenyl	6.11	6.08	6.14	37.07	40.08	-8
Aroclor-1016	2.90	2.88	2.92	201.01	200.04	0
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	196.24	200.20	-2
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 3

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKVK Sample ID: VK **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 14:43:48
Instrument : CP20--17342A
Result file : 20PCBS17137004.006.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	53.03	
3.16	3.19	3.20	2243.409	0.010933			1
3.37	3.39	3.41	772.324	0.003686			2
3.49	3.49	3.53	1462.374	0.0062			3
Height Summation:			4478.107				
Amount Avg CF:				0.00694	Linear:		
Aroclor-1221					2	135.33	
3.11	3.13	3.15	31576.25	0.371597			2
3.16	3.19	3.20	2243.409	0.008172			3
Height Summation:			33819.659				
Amount Avg CF:				0.189884	Linear:		
Aroclor-1232					3	29.25	
3.16	3.19	3.20	2243.409	0.009111			1
3.38	3.39	3.42	772.324	0.007795			2
3.49	3.49	3.53	1462.374	0.013451			3
Height Summation:			4478.107				
Amount Avg CF:				0.010119	Linear:		
Aroclor-1242					3	50.47	
3.16	3.19	3.20	2243.409	0.012763			1
3.38	3.39	3.42	772.324	0.004449			2
3.49	3.49	3.53	1462.374	0.007694			3
Height Summation:			4478.107				
Amount Avg CF:				0.008302	Linear:		
Aroclor-1248					1		
3.83	3.85	3.87	1449.049	0.006866			2
Height Summation:			1449.049				
Amount Avg CF:				0.006866	Linear:		
Aroclor-1254					1		
4.55	4.57	4.59	1104.133	0.003807			2
Height Summation:			1104.133				
Amount Avg CF:				0.003807	Linear:		
Aroclor-1260					3	34.79	
5.03	5.04	5.07	1440.139	0.006219			2
5.20	5.21	5.24	1135.54	0.004188			3
5.82	5.84	5.86	1318.627	0.00313			6
Height Summation:			3894.306				
Amount Avg CF:				0.004512	Linear:		
Aroclor-1262					2	5.19	
5.21	5.21	5.24	1135.54	0.002275			1
5.81	5.84	5.85	1318.627	0.002448			4
Height Summation:			2454.167				
Amount Avg CF:				0.002361	Linear:		
Aroclor-1268					4	140.75	
5.81	5.84	5.85	1318.627	0.001101			1
6.00	6.02	6.04	25112.75	0.025768			3
6.07	6.09	6.11	23012.47	0.102994			4
6.45	6.47	6.49	15654.51	0.004969			6
Height Summation:			65098.357				
Amount Avg CF:				0.033708	Linear:		

Analysis Report (B)

Injected on : May 21, 2017 14:43:48
Instrument : CP20--17342B
Result file : 20PCBS17137004B.006.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	30.13	
2.88	2.88	2.92	6407.077	0.005666			1
3.40	3.41	3.44	12333.33	0.008735			3
Height Summation:			18740.407				
Amount Avg CF:				0.0072	Linear:		
Aroclor-1221					3	166.64	
2.77	2.78	2.81	5362.286	0.008986			1
+ 2.77	2.80	2.81	2600.78	0.004358			1
2.83	2.83	2.87	186925.3	0.508135			2
2.88	2.88	2.92	6407.077	0.004199			3
Height Summation:			198694.663				
Amount Avg CF:				0.173773	Linear:		
Aroclor-1232					2	89.54	
2.88	2.88	2.92	6407.077	0.004638			1
3.40	3.41	3.44	12333.33	0.020647			3
Height Summation:			18740.407				
Amount Avg CF:				0.012643	Linear:		
Aroclor-1242					2	34.25	
2.88	2.88	2.92	6407.077	0.00659			1
3.40	3.41	3.44	12333.33	0.010801			3
Height Summation:			18740.407				
Amount Avg CF:				0.008695	Linear:		
Aroclor-1248					4	122.64	
3.40	3.41	3.44	12333.33	0.022147			1
3.51	3.55	3.55	4628.694	0.002947			2
3.86	3.86	3.90	1704.509	0.000635			5
4.22	4.23	4.26	7118.398	0.005999			6
Height Summation:			25784.931				
Amount Avg CF:				0.007932	Linear:		
Aroclor-1254					2	10.67	
4.22	4.23	4.26	7118.398	0.001919			2
4.60	4.62	4.64	3905.027	0.002232			6
Height Summation:			11023.425				
Amount Avg CF:				0.002076	Linear:		
Aroclor-1260					3	8.40	
4.55	4.58	4.59	3768.164	0.001407			3
4.90	4.92	4.94	2803.727	0.001362			4
5.35	5.37	5.39	4976.522	0.001592			6
Height Summation:			11548.413				
Amount Avg CF:				0.001453	Linear:		
Aroclor-1262					3	17.80	
4.90	4.92	4.94	2803.727	0.00087			2
5.31	5.33	5.35	2431.542	0.000957			4
5.35	5.37	5.39	4976.522	0.001217			5
Height Summation:			10211.791				
Amount Avg CF:				0.001014	Linear:		

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKVK Sample ID: VK **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 14:43:48
Instrument : CP20--17342A
Result file : 20PCBS17137004.006.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 14:43:48
Instrument : CP20--17342B
Result file : 20PCBS17137004B.006.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**5**	**168.08**	
5.31	5.33	5.35	2431.542	0.000294			1
5.35	5.37	5.39	4976.522	0.000594			2
5.51	5.53	5.55	169713	0.023575			3
5.57	5.59	5.61	191982.8	0.110302			4
5.93	5.95	5.97	108514.5	0.005062			6

Height Summation: **477618.364**
Amount Avg CF: **0.027965** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						3.69	4	40	
Aroclor-1221						8.86	3	5	
Aroclor-1232						22.18	4	10	
Aroclor-1242						4.63	4	30	
Aroclor-1248						14.41	4	40	
Aroclor-1254						** 58.86	4	40	
Aroclor-1260						** 102.55	4	40	
Aroclor-1262						** 79.80	4	40	
Aroclor-1268						18.62	4	40	

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/21/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 18:43

Lab File ID: 20PCBS17137004.027.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163CR Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.93	2.89	2.95	42.89	40.08	7
Decachlorobiphenyl	6.61	6.58	6.64	38.83	40.08	-3
Aroclor-1016	3.18	3.16	3.20	206.34	200.04	3
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	206.41	200.20	3
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/21/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 18:43

Lab File ID: 20PCBS17137004B.027.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163CR Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	43.62	40.08	9
Decachlorobiphenyl	6.11	6.08	6.14	38.22	40.08	-5
Aroclor-1016	2.90	2.88	2.92	210.55	200.04	5
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	204.28	200.20	2
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 5

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **IBLKX17** 24A PIBLKVL Sample ID: VL **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 18:54:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	70.87	
3.16	3.19	3.20	3789.358	0.018468			1
3.37	3.40	3.41	1285.944	0.006138			2
Height Summation:			**5075.302**				
Amount Avg CF:			**0.012303**	Linear:			
Aroclor-1221					3	157.83	
3.06	3.07	3.10	935.7701	0.00952			1
3.11	3.12	3.15	31480.03	0.370464			2
3.16	3.19	3.20	3789.358	0.013804			3
Height Summation:			**36205.1581**				
Amount Avg CF:			**0.131263**	Linear:			
Aroclor-1232					2	12.02	
3.16	3.19	3.20	3789.358	0.015389			1
3.38	3.40	3.42	1285.944	0.012978			2
Height Summation:			**5075.302**				
Amount Avg CF:			**0.014183**	Linear:			
Aroclor-1242					2	69.08	
3.16	3.19	3.20	3789.358	0.021557			1
3.38	3.40	3.42	1285.944	0.007408			2
Height Summation:			**5075.302**				
Amount Avg CF:			**0.014483**	Linear:			
Aroclor-1248					3	59.40	
3.83	3.85	3.87	2225.866	0.010546			2
4.05	4.06	4.09	888.4172	0.0043			4
4.23	4.26	4.27	4124.817	0.016851			5
Height Summation:			**7239.1002**				
Amount Avg CF:			**0.010566**	Linear:			
Aroclor-1254					1		
4.55	4.57	4.59	1321.502	0.004556			2
Height Summation:			**1321.502**				
Amount Avg CF:			**0.004556**	Linear:			
Aroclor-1260					4	46.73	
5.03	5.04	5.07	1668.49	0.007205			2
5.20	5.20	5.24	2551.739	0.009411			3
5.37	5.38	5.41	863.6386	0.002792			4
5.82	5.84	5.86	2100.785	0.004987			6
Height Summation:			**7184.6526**				
Amount Avg CF:			**0.006099**	Linear:			
Aroclor-1262					2	41.16	
5.37	5.38	5.41	863.6386	0.002141			2
5.81	5.84	5.85	2100.785	0.0039			4
Height Summation:			**2964.4236**				
Amount Avg CF:			**0.003021**	Linear:			
Aroclor-1268					4	147.60	
5.81	5.84	5.85	2100.785	0.001754			1
6.00	6.02	6.04	29668.21	0.030442			3
6.07	6.09	6.11	32442.38	0.145198			4
6.45	6.47	6.49	17552.04	0.005572			6
Height Summation:			**81763.415**				
Amount Avg CF:			**0.045741**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 18:54:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	15.18	
2.88	2.88	2.92	10795.2	0.009547			1
+ 2.88	2.91	2.92	3596.877	0.003181			1
3.40	3.41	3.44	10866.61	0.007696			3
Height Summation:			**21661.81**				
Amount Avg CF:			**0.008621**	Linear:			
Aroclor-1221					3	163.89	
2.77	2.78	2.81	7354.606	0.012324			1
2.83	2.83	2.87	191693.2	0.521096			2
2.88	2.88	2.92	10795.2	0.007074			3
+ 2.88	2.91	2.92	3596.877	0.002357			3
Height Summation:			**209843.006**				
Amount Avg CF:			**0.180165**	Linear:			
Aroclor-1232					2	56.43	
2.88	2.88	2.92	10795.2	0.007814			1
+ 2.88	2.91	2.92	3596.877	0.002604			1
3.40	3.41	3.44	10866.61	0.018192			3
Height Summation:			**21661.81**				
Amount Avg CF:			**0.013003**	Linear:			
Aroclor-1242					2	10.88	
2.88	2.88	2.92	10795.2	0.011103			1
+ 2.88	2.91	2.92	3596.877	0.003699			1
3.40	3.41	3.44	10866.61	0.009517			3
Height Summation:			**21661.81**				
Amount Avg CF:			**0.01031**	Linear:			
Aroclor-1248					3	123.30	
3.40	3.41	3.44	10866.61	0.019513			1
3.86	3.88	3.90	4040.261	0.001505			5
4.22	4.23	4.26	3778.822	0.003185			6
Height Summation:			**18685.693**				
Amount Avg CF:			**0.008068**	Linear:			
Aroclor-1254					3	57.50	
4.22	4.23	4.26	3778.822	0.001019			2
4.31	4.33	4.35	4316.351	0.002501			3
4.60	4.62	4.64	6714.033	0.003838			6
Height Summation:			**14809.206**				
Amount Avg CF:			**0.002453**	Linear:			
Aroclor-1260					5	57.51	
4.31	4.33	4.35	4316.351	0.001529			1
4.55	4.57	4.59	6869.276	0.002564			3
4.90	4.92	4.94	6020.495	0.002924			4
5.09	5.12	5.13	2298.686	0.000492			5
5.35	5.37	5.39	3691.051	0.001181			6
Height Summation:			**23195.859**				
Amount Avg CF:			**0.001738**	Linear:			
Aroclor-1262					5	48.18	
4.71	4.74	4.75	5114.005	0.001578			1
4.90	4.92	4.94	6020.495	0.001867			2
5.09	5.12	5.13	2298.686	0.000375			3
5.31	5.33	5.35	3638.533	0.001432			4
5.35	5.37	5.39	3691.051	0.000902			5
Height Summation:			**20762.77**				
Amount Avg CF:			**0.001231**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKVL Sample ID: VL **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 18:54:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 18:54:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**5**	**171.29**	
5.31	5.33	5.35	3638.533	0.00044			1
5.35	5.37	5.39	3691.051	0.00044			2
5.51	5.53	5.55	214232.3	0.029759			3
5.57	5.60	5.61	253533	0.145665			4
5.93	5.95	5.97	118572.2	0.005531			6

Height Summation: **593667.084**
Amount Avg CF: **0.036367** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						35.19	4	40	
Aroclor-1221						31.40	3	5	
Aroclor-1232						8.68	4	10	
Aroclor-1242						33.66	4	30	
Aroclor-1248						26.81	4	40	
Aroclor-1254						** 60.03	4	40	
Aroclor-1260						** 111.29	4	40	
Aroclor-1262						** 84.20	4	40	
Aroclor-1268						22.83	4	40	

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/21/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:54

Lab File ID: 20PCBS17137004.049.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163CS Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.93	2.89	2.95	42.08	40.08	5
Decachlorobiphenyl	6.61	6.58	6.64	40.03	40.08	0
Aroclor-1016	3.18	3.16	3.20	207.94	200.04	4
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	203.02	200.20	1
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 3

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/21/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:54

Lab File ID: 20PCBS17137004B.049.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163CS Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	41.83	40.08	4
Decachlorobiphenyl	6.11	6.08	6.14	36.46	40.08	-9
Aroclor-1016	2.90	2.88	2.92	208.12	200.04	4
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	196.78	200.20	-2
	4.47	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 5

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKVM Sample ID: VM **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 23:05:55
Instrument : CP20--17342A
Result file : 20PCBS17137004.050.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**3**	**56.50**	
3.16	3.19	3.20	2691.024	0.013115			1
3.37	3.40	3.41	1020.514	0.004871			2
+ 3.49	3.49	3.53	805.3979	0.003414			3
3.49	3.53	3.53	1388.149	0.005885			3
Height Summation:			**5099.687**				
Amount Avg CF:			**0.007957**	Linear:			
Aroclor-1221					**2**	**134.16**	
3.11	3.12	3.15	31618.06	0.372089			2
3.16	3.19	3.20	2691.024	0.009803			3
Height Summation:			**34309.084**				
Amount Avg CF:			**0.190946**	Linear:			
Aroclor-1232					**4**	**12.74**	
3.16	3.19	3.20	2691.024	0.010928			1
3.38	3.40	3.42	1020.514	0.010299			2
+ 3.49	3.49	3.53	805.3979	0.007408			3
3.49	3.53	3.53	1388.149	0.012768			3
3.71	3.75	3.75	1122.394	0.009517			4
Height Summation:			**6222.081**				
Amount Avg CF:			**0.010878**	Linear:			
Aroclor-1242					**3**	**53.52**	
3.16	3.19	3.20	2691.024	0.015309			1
3.38	3.40	3.42	1020.514	0.005879			2
+ 3.49	3.49	3.53	805.3979	0.004237			3
3.49	3.53	3.53	1388.149	0.007303			3
Height Summation:			**5099.687**				
Amount Avg CF:			**0.009497**	Linear:			
Aroclor-1248					**2**	**41.34**	
3.83	3.85	3.87	1376.066	0.00652			2
4.05	4.07	4.09	737.6662	0.00357			4
Height Summation:			**2113.7322**				
Amount Avg CF:			**0.005045**	Linear:			
Aroclor-1254					**1**		
4.55	4.57	4.59	1224.289	0.004221			2
Height Summation:			**1224.289**				
Amount Avg CF:			**0.004221**	Linear:			
Aroclor-1260					**4**	**58.93**	
5.03	5.04	5.07	2729.837	0.011789			2
5.20	5.21	5.24	1670.898	0.006162			3
5.37	5.39	5.41	1076.797	0.003481			4
5.82	5.84	5.86	1751.803	0.004158			6
Height Summation:			**7229.335**				
Amount Avg CF:			**0.006397**	Linear:			
Aroclor-1262					**3**	**11.86**	
5.21	5.21	5.24	1670.898	0.003347			1
5.37	5.39	5.41	1076.797	0.00267			2
5.81	5.84	5.85	1751.803	0.003252			4
Height Summation:			**4499.498**				
Amount Avg CF:			**0.00309**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 23:05:55
Instrument : CP20--17342B
Result file : 20PCBS17137004B.050.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**2**	**49.21**	
2.88	2.88	2.92	4529.389	0.004006			1
3.40	3.41	3.44	11692.7	0.008281			3
Height Summation:			**16222.089**				
Amount Avg CF:			**0.006143**	Linear:			
Aroclor-1221					**3**	**165.54**	
2.77	2.78	2.81	7809.424	0.013086			1
+ 2.77	2.80	2.81	3423.084	0.005736			1
2.83	2.83	2.87	193533.7	0.526099			2
2.88	2.88	2.92	4529.389	0.002968			3
Height Summation:			**205872.513**				
Amount Avg CF:			**0.180718**	Linear:			
Aroclor-1232					**2**	**100.84**	
2.88	2.88	2.92	4529.389	0.003279			1
3.40	3.41	3.44	11692.7	0.019575			3
Height Summation:			**16222.089**				
Amount Avg CF:			**0.011427**	Linear:			
Aroclor-1242					**2**	**52.98**	
2.88	2.88	2.92	4529.389	0.004659			1
3.40	3.41	3.44	11692.7	0.01024			3
Height Summation:			**16222.089**				
Amount Avg CF:			**0.007449**	Linear:			
Aroclor-1248					**3**	**106.83**	
3.40	3.41	3.44	11692.7	0.020996			1
3.51	3.52	3.55	2240.354	0.001426			2
4.22	4.23	4.26	7383.204	0.006222			6
Height Summation:			**21316.258**				
Amount Avg CF:			**0.009548**	Linear:			
Aroclor-1254					**3**	**27.87**	
4.22	4.23	4.26	7383.204	0.00199			2
4.31	4.33	4.35	5781.313	0.00335			3
4.60	4.62	4.64	4044.359	0.002312			6
Height Summation:			**17208.876**				
Amount Avg CF:			**0.002551**	Linear:			
Aroclor-1260					**5**	**38.49**	
4.31	4.33	4.35	5781.313	0.002048			1
4.55	4.57	4.59	6382.492	0.002383			3
4.90	4.92	4.94	4107.068	0.001995			4
5.09	5.11	5.13	2857.333	0.000611			5
5.35	5.37	5.39	7093.133	0.002269			6
Height Summation:			**26221.339**				
Amount Avg CF:			**0.001861**	Linear:			
Aroclor-1262					**5**	**37.98**	
4.71	4.74	4.75	4805.225	0.001483			1
4.90	4.92	4.94	4107.068	0.001274			2
5.09	5.11	5.13	2857.333	0.000466			3
5.31	5.33	5.35	3342.997	0.001315			4
5.35	5.37	5.39	7093.133	0.001734			5
Height Summation:			**22205.756**				
Amount Avg CF:			**0.001254**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **IBLKX17** 24A PIBLKVM Sample ID: VM **Batchnumber: 1714099999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 21, 2017 23:05:55
Instrument : CP20--17342A
Result file : 20PCBS17137004.050.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**145.73**	
5.81	5.84	5.85	1751.803	0.001462			1
6.00	6.02	6.04	27113.88	0.027821			3
6.07	6.09	6.11	28296.42	0.126643			4
6.45	6.46	6.49	16589.93	0.005266			6

Height Summation: **73752.033**
Amount Avg CF: **0.040298** Linear:

Analysis Report (B)

Injected on : May 21, 2017 23:05:55
Instrument : CP20--17342B
Result file : 20PCBS17137004B.050.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**5**	**170.85**	
5.31	5.33	5.35	3342.997	0.000404			1
5.35	5.37	5.39	7093.133	0.000846			2
5.51	5.53	5.55	189930.1	0.026383			3
5.57	5.59	5.61	229520.2	0.131868			4
5.93	5.95	5.97	113351.6	0.005288			6

Height Summation: **543238.03**
Amount Avg CF: **0.032958** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						25.72	4	40	
Aroclor-1221						5.50	3	5	
Aroclor-1232						4.92	4	10	
Aroclor-1242						24.17	4	30	
Aroclor-1248						** 61.72	4	40	
Aroclor-1254						** 49.33	4	40	
Aroclor-1260						** 109.86	4	40	
Aroclor-1262						** 84.50	4	40	
Aroclor-1268						20.04	4	40	

Eurofins Lancaster Laboratories
Pesticide Residue Analysis
Runlog for 20PCBS17137001
Instrument CP20--17342A

Data Directory Path is - \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137001.001	CONDITIONER		5/17/17 16:32	1713699999	1.00
2855	20PCBS17137001.002	CONDITIONER		5/17/17 16:43	1713699999	1.00
2855	20PCBS17137001.003	CONDITIONER		5/17/17 16:55	1713699999	1.00
2855	20PCBS17137001.004	CONDITIONER		5/17/17 17:06	1713699999	1.00
2855	20PCBS17137001.005	IBLKX1724A	PIBLKAA	5/17/17 17:17	1713699999	10.00
2855	20PCBS17137001.006	EVALX1624B	EVALXAA	5/17/17 17:29	1713699999	1.00
2855	20PCBS17137001.007	AR1611724A	AR161AA	5/17/17 17:40	1713699999	1.00
2855	20PCBS17137001.008	AR1621724A	AR162AA	5/17/17 17:51	1713699999	1.00
2855	20PCBS17137001.009	AR1631724A	AR163AA	5/17/17 18:03	1713699999	1.00
2855	20PCBS17137001.010	AR1641724A	AR164AA	5/17/17 18:14	1713699999	1.00
2855	20PCBS17137001.011	AR1651724A	AR165AA	5/17/17 18:26	1713699999	1.00
2855	20PCBS17137001.012	AR4811724A	AR481AA	5/17/17 18:37	1713699999	1.00
2855	20PCBS17137001.013	AR4821724A	AR482AA	5/17/17 18:49	1713699999	1.00
2855	20PCBS17137001.014	AR4831724A	AR483AA	5/17/17 19:00	1713699999	1.00
2855	20PCBS17137001.015	AR4841724A	AR484AA	5/17/17 19:12	1713699999	1.00
2855	20PCBS17137001.016	AR4851724A	AR485AA	5/17/17 19:23	1713699999	1.00
2855	20PCBS17137001.017	AR5411724A	AR541AA	5/17/17 19:34	1713699999	1.00
2855	20PCBS17137001.018	AR5421724A	AR542AA	5/17/17 19:46	1713699999	1.00
2855	20PCBS17137001.019	AR5431724A	AR543AA	5/17/17 19:57	1713699999	1.00
2855	20PCBS17137001.020	AR5441724A	AR544AA	5/17/17 20:09	1713699999	1.00
2855	20PCBS17137001.021	AR5451724A	AR545AA	5/17/17 20:20	1713699999	1.00
2855	20PCBS17137001.022	AR6231724A	AR623AA	5/17/17 20:31	1713699999	1.00
2855	20PCBS17137001.023	AR6831724A	AR683AA	5/17/17 20:43	1713699999	1.00
2855	20PCBS17137001.024	AR2131724A	AR213AA	5/17/17 20:54	1713699999	1.00
2855	20PCBS17137001.025	AR3231724A	AR323AA	5/17/17 21:06	1713699999	1.00
2855	20PCBS17137001.026	AR4231724A	AR423AA	5/17/17 21:17	1713699999	1.00
2855	20PCBS17137001.027	AR16XX1724A	AR16XAA	5/17/17 21:29	1713699999	1.00
2855	20PCBS17137001.028	MD16X1724A	MD16XAA	5/17/17 21:40	1713699999	1.00
2855	20PCBS17137001.029	IC16X1724A	IC16XAA	5/17/17 21:52	1713699999	1.00
2855	20PCBS17137001.030	IC48X1724A	IC48XAA	5/17/17 22:03	1713699999	1.00
2855	20PCBS17137001.031	IC54X1724A	IC54XAA	5/17/17 22:15	1713699999	1.00
2855	20PCBS17137001.032	BLANKA 5/16/17 RI A	PBLK35135	5/17/17 22:26	171350035A	10.00
2855	20PCBS17137001.033	LOD 5/16/17 RI A		5/17/17 22:38	171350035A	10.00
2855	20PCBS17137001.034	AR1631724A	AR163BR	5/17/17 22:49	1713699999	1.00
2855	20PCBS17137001.035	IBLKX1724A	PIBLKUF	5/17/17 23:01	1713699999	10.00

Eurofins Lancaster Laboratories
Pesticide Residue Analysis
Runlog for 20PCBS17137004
Instrument CP20--17342A

Data Directory Path is - \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137004.001	CONDITIONER		5/21/17 13:46	1714099999	1.00
2855	20PCBS17137004.002	CONDITIONER		5/21/17 13:58	1714099999	1.00
2855	20PCBS17137004.003	CONDITIONER		5/21/17 14:09	1714099999	1.00
2855	20PCBS17137004.004	CONDITIONER		5/21/17 14:20	1714099999	1.00
2855	20PCBS17137004.005	AR1631724A	AR163CQ	5/21/17 14:32	1714099999	1.00
2855	20PCBS17137004.006	IBLKX1724A	PIBLKVK	5/21/17 14:43	1714099999	10.00
2855	20PCBS17137004.007	BLANKA 5/19/17 ACF	PBLK28138	5/21/17 14:55	171380028A	10.00
2855	20PCBS17137004.008	LCSA 5/19/17 ACF	LCS28138	5/21/17 15:06	171380028A	10.00
2855	20PCBS17137004.009	8998234 RI ACF	42A01	5/21/17 15:18	171380028A	10.00
2855	20PCBS17137004.010	8998235MSACF	42A01	5/21/17 15:29	171380028A	10.00
2855	20PCBS17137004.011	8998236MSDACF	42A01	5/21/17 15:40	171380028A	10.00
2855	20PCBS17137004.012	8998237 RI ACF	42A02	5/21/17 15:52	171380028A	10.00
2855	20PCBS17137004.013	8998238ACF DF5	42A03	5/21/17 16:03	171380028A	50.00
2855	20PCBS17137004.014	8998239 RI ACF	42A04	5/21/17 16:15	171380028A	10.00
2855	20PCBS17137004.015	8998240ACF DF5	42A05	5/21/17 16:26	171380028A	50.00
2855	20PCBS17137004.016	8998241ACF DF5	42A06	5/21/17 16:38	171380028A	50.00
2855	20PCBS17137004.017	8998242 RI ACF	42A07	5/21/17 16:49	171380028A	10.00
2855	20PCBS17137004.018	8998243 RI ACF	42A08	5/21/17 17:01	171380028A	10.00
2855	20PCBS17137004.019	8998244 RI ACF	42A09	5/21/17 17:12	171380028A	10.00
2855	20PCBS17137004.020	8998245ACF DF200	42A10	5/21/17 17:24	171380028A	2,000.00
2855	20PCBS17137004.021	8998245ACF DF500	42A10	5/21/17 17:35	171380028A	5,000.00
2855	20PCBS17137004.022	8998246ACF DF50	42A11	5/21/17 17:46	171380028A	500.00
2855	20PCBS17137004.023	8998246ACF DF100	42A11	5/21/17 17:57	171380028A	1,000.00
2855	20PCBS17137004.024	8998247 RI ACF	42A12	5/21/17 18:08	171380028A	10.00
2855	20PCBS17137004.025	8998247ACF DF5	42A12	5/21/17 18:20	171380028A	50.00
2855	20PCBS17137004.026	8998248 RI ACF	42A13	5/21/17 18:31	171380028A	10.00
2855	20PCBS17137004.027	AR1631724A	AR163CR	5/21/17 18:43	1714099999	1.00
2855	20PCBS17137004.028	IBLKX1724A	PIBLKVL	5/21/17 18:54	1714099999	10.00
2855	20PCBS17137004.029	8998249ACF DF10	42A14	5/21/17 19:06	171380028A	100.00
2855	20PCBS17137004.030	8998250ACF DF5	42A15	5/21/17 19:17	171380028A	50.00
2855	20PCBS17137004.031	8998251ACF DF5	42A16	5/21/17 19:28	171380028A	50.00
2855	20PCBS17137004.032	8998252ACF DF5	42A17	5/21/17 19:40	171380028A	50.00
2855	20PCBS17137004.033	8998253 RI ACF	42A18	5/21/17 19:51	171380028A	10.00
2855	20PCBS17137004.034	8998253ACF DF5	42A18	5/21/17 20:03	171380028A	50.00
2855	20PCBS17137004.035	BLANKA 5/19/17 ACF	PBLK29138	5/21/17 20:14	171380029A	10.00
2855	20PCBS17137004.036	LCSA 5/19/17 ACF	LCS29138	5/21/17 20:25	171380029A	10.00
2855	20PCBS17137004.037	8998254ACF DF5	A4301	5/21/17 20:37	171380029A	50.00
2855	20PCBS17137004.038	8998255ACF DF5	A4302	5/21/17 20:48	171380029A	50.00
2855	20PCBS17137004.039	8998256 RI ACF	A4303	5/21/17 21:00	171380029A	10.00
2855	20PCBS17137004.040	8998256ACF DF5	A4303	5/21/17 21:11	171380029A	50.00
2855	20PCBS17137004.041	8998257ACF DF5	A4304	5/21/17 21:22	171380029A	50.00
2855	20PCBS17137004.042	8998258 RI ACF	A4305	5/21/17 21:34	171380029A	10.00
2855	20PCBS17137004.043	8998259ACF DF5	A4306	5/21/17 21:45	171380029A	50.00
2855	20PCBS17137004.044	8998260ACF DF10	A4307	5/21/17 21:57	171380029A	100.00
2855	20PCBS17137004.045	8998261MSACF DF1	A4307	5/21/17 22:08	171380029A	100.00
2855	20PCBS17137004.046	8998262MSDACF DF	A4307	5/21/17 22:20	171380029A	100.00
2855	20PCBS17137004.047	8998263ACF DF50	A4308	5/21/17 22:31	171380029A	500.00
2855	20PCBS17137004.048	8998264ACF DF5	A4309	5/21/17 22:43	171380029A	50.00
2855	20PCBS17137004.049	AR1631724A	AR163CS	5/21/17 22:54	1714099999	1.00
2855	20PCBS17137004.050	IBLKX1724A	PIBLKVM	5/21/17 23:05	1714099999	10.00
2855	20PCBS17137004.051	8998265ACF DF5	A4310	5/21/17 23:17	171380029A	50.00
2855	20PCBS17137004.052	8998266ACF DF5	A4311	5/21/17 23:28	171380029A	50.00
2855	20PCBS17137004.053	8998267ACF DF5	A4312	5/21/17 23:40	171380029A	50.00
2855	20PCBS17137004.054	8998268 RI ACF	A4313	5/21/17 23:51	171380029A	10.00
2855	20PCBS17137004.055	8998269ACF DF5	A4314	5/22/17 0:03	171380029A	50.00
2855	20PCBS17137004.056	8998270 RI ACF	A4315	5/22/17 0:14	171380029A	10.00

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137004.057	8998270ACF DF5	A4315	5/22/17 0:25	171380029A	50.00
2855	20PCBS17137004.058	8998271ACF DF200	A4316	5/22/17 0:37	171380029A	2,000.00
2855	20PCBS17137004.059	8998272ACF DF500	A4317	5/22/17 0:48	171380029A	5,000.00
2855	20PCBS17137004.060	8998272ACF DF200	A4317	5/22/17 1:00	171380029A	2,000.00
2855	20PCBS17137004.061	8998271ACF DF500	A4316	5/22/17 1:11	171380029A	5,000.00
2855	20PCBS17137004.062	8998273ACF DF5	A4318	5/22/17 1:23	171380029A	50.00
2855	20PCBS17137004.063	8998274ACF DF10	A4401	5/22/17 1:34	171380029A	100.00
2855	20PCBS17137004.064	8998275ACF DF20	A4402	5/22/17 1:45	171380029A	200.00
2855	20PCBS17137004.065	AR1631724A	AR163CT	5/22/17 1:57	1714099999	1.00
2855	20PCBS17137004.066	IBLKX1724A	PIBLKVN	5/22/17 2:08	1714099999	10.00

Sample Data

Polychlorinated Biphenyls (PCBs)

Lancaster Laboratories Environmental

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: ATE42

Fraction: Polychlorinated Biphenyls (PCBs)

10225: PCBs in Solids by 8082/3550 Analyte Name	Default MDL	Default LOQ	Units
PCB-1016	0.0099	0.051	mg/kg
PCB-1221	0.015	0.051	mg/kg
PCB-1232	0.012	0.051	mg/kg
PCB-1242	0.012	0.051	mg/kg
PCB-1248	0.0099	0.051	mg/kg
PCB-1254	0.013	0.051	mg/kg
PCB-1260	0.012	0.051	mg/kg

eurofins | Lancaster Laboratories Environmental

Data Summary

Sample Name: 8998234 RI ACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:18:13
Instrument	17342A
Result file	20PCBS17137004.009.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 103% (61 - 152) Conc: 29.47704
%SSR(DCB) 98% (48 - 164) Conc: 28.19597

Analysis Report (B)

Injected on	May 21, 2017 15:18:13
Instrument	17342B
Result file	20PCBS17137004B.009.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 101% (61 - 152) Conc: 29.13029
%SSR(DCB) 96% (48 - 164) Conc: 27.72945

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3410082	29.47704
Decachlorobiphenyl	6.58	6.61	6.64	1975271	28.19597

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20500520	29.13029
Decachlorobiphenyl	6.08	6.11	6.14	13752360	27.72945

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	29.47704				1.18	
☑ Decachlorobiphenyl	A	28.19597				1.67	

Multiple Component Data

Aroclor-1260 — %RSD 21.30

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	1501476	351.934547			1
5.03	5.05	5.07	1421075	602.833685			2
5.20	5.23	5.24	1016892	368.409812			3
5.37	5.39	5.41	1238987	393.402422			4
5.61	5.63	5.65	3247960	425.432326			5
5.82	5.84	5.86	1785290	416.270616			6

Height summation: **10211680**
Concentration CF: **426.380568** L:

Aroclor-1260 — %RSD 8.90

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	10554540	367.21739			1
4.44	4.46	4.48	14191440	418.696599			2
4.55	4.57	4.59	9773654	358.399639			3
4.90	4.92	4.94	7239785	345.376127			4
5.09	5.11	5.13	20363710	428.069918			5
5.35	5.37	5.39	12868790	404.387273			6

Height summation: **74991919**
Concentration CF: **387.024491** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<50.0982	<9.725			4	
☑ PCB-1221			<50.0982	<15.0295			3	
☑ PCB-1232			<50.0982	<12.0825			4	
☑ PCB-1242			<50.0982	<12.0825			4	
☑ PCB-1248			<50.0982	<9.725			4	
☑ PCB-1254			<50.0982	<12.9666			4	
☑ PCB-1260	A	426.380568	50.0982	11.4931		9.68	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998234** RI ACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342A
Result file : 20PCBS17137004.009.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 103% (61-152) Conc.: 29.47704
%SSR(DCB) : 98% (48-164) Conc.: 28.19597

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	90.29	
3.16	3.18	3.20	3402.625	1.62898			1
3.37	3.40	3.41	5947.03	2.788218			2
3.49	3.51	3.53	6477.163	2.69734			3
3.71	3.73	3.75	28471.73	10.701681			4
3.76	3.79	3.80	9114.521	4.188507			5
3.96	3.98	4.00	27669.47	15.857991			6
Height Summation:			**81082.539**				
Amount Avg CF:			**6.310453**	Linear:			
Aroclor-1221					3	80.47	
3.06	3.08	3.10	2034.148	2.032906			1
3.11	3.12	3.15	4968.87	5.744089			2
3.16	3.18	3.20	3402.625	1.217587			3
Height Summation:			**10405.643**				
Amount Avg CF:			**2.998194**	Linear:			
Aroclor-1232					6	99.48	
3.16	3.18	3.20	3402.625	1.357384			1
3.38	3.40	3.42	5947.03	5.895838			2
3.49	3.51	3.53	6477.163	5.852296			3
3.71	3.73	3.75	28471.73	23.714072			4
3.77	3.79	3.81	9114.521	9.68317			5
3.96	3.98	4.00	27669.47	38.027293			6
Height Summation:			**81082.539**				
Amount Avg CF:			**14.088342**	Linear:			
Aroclor-1242					6	91.11	
3.16	3.18	3.20	3402.625	1.901502			1
3.38	3.40	3.42	5947.03	3.365553			2
3.49	3.51	3.53	6477.163	3.347566			3
3.71	3.73	3.75	28471.73	13.080546			4
3.77	3.79	3.81	9114.521	5.348259			5
3.96	3.98	4.00	27669.47	19.860746			6
Height Summation:			**81082.539**				
Amount Avg CF:			**7.817362**	Linear:			
Aroclor-1248					6	180.17	
3.76	3.79	3.80	9114.521	7.71459			1
3.83	3.86	3.87	59302.3	27.600351			2
3.96	3.98	4.00	27669.47	10.934874			3
4.05	4.07	4.09	40194.73	19.10855			4
4.23	4.23	4.27	287919.1	115.545383			5
+ 4.23	4.25	4.27	87149.54	34.974154			5
4.61	4.63	4.65	1110576	607.986729			6
Height Summation:			**1534776.121**				
Amount Avg CF:			**131.481746**	Linear:			
Aroclor-1254					6	95.84	
4.21	4.23	4.25	287919.1	97.999938			1
4.55	4.57	4.59	157161.2	53.228798			2
+ 4.55	4.59	4.59	49581.1	16.792582			2
4.61	4.63	4.65	1110576	186.236412			3
4.73	4.76	4.77	1501476	838.854003			4
4.83	4.85	4.87	886889.6	225.055254			5
5.14	5.16	5.18	2997967	740.592223			6
Height Summation:			**6941988.9**				
Amount Avg CF:			**356.994438**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342B
Result file : 20PCBS17137004B.009.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 101% (61-152) Conc.: 29.13029
%SSR(DCB) : 96% (48-164) Conc.: 27.72945

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	141.26	
2.88	2.91	2.92	1028395	89.338955			1
+ 3.21	3.23	3.25	33485.14	2.340796			2
3.21	3.24	3.25	84349.7	5.896508			2
+ 3.40	3.41	3.44	50990.05	3.54735			3
3.40	3.43	3.44	104135.2	7.244629			3
3.47	3.49	3.51	72941.12	4.290965			4
3.63	3.65	3.67	224881.1	15.745653			5
+ 3.72	3.73	3.76	154408.4	12.616814			6
3.72	3.74	3.76	205999.6	16.832365			6
Height Summation:			**1720701.72**				
Amount Avg CF:			**23.224846**	Linear:			
Aroclor-1221					3	126.11	
2.77	2.79	2.81	55944.22	9.208983			1
2.83	2.84	2.87	20659.03	5.516619			2
2.88	2.91	2.92	1028395	66.198582			3
Height Summation:			**1104998.25**				
Amount Avg CF:			**26.974728**	Linear:			
Aroclor-1232					6	77.68	
+ 2.88	2.88	2.92	7471.583	0.531282			1
2.88	2.91	2.92	1028395	73.126101			1
+ 3.21	3.23	3.25	33485.14	4.926556			2
3.21	3.24	3.25	84349.7	12.410089			2
+ 3.40	3.41	3.44	50990.05	8.385314			3
3.40	3.43	3.44	104135.2	17.125035			3
3.47	3.49	3.51	72941.12	9.763475			4
+ 3.66	3.68	3.70	73761.84	36.153287			5
3.66	3.70	3.70	139434.6	68.34183			5
+ 3.73	3.73	3.77	154408.4	28.866498			6
3.73	3.74	3.77	205999.6	38.511422			6
Height Summation:			**1635255.22**				
Amount Avg CF:			**36.546325**	Linear:			
Aroclor-1242					6	135.99	
+ 2.88	2.88	2.92	7471.583	0.754883			1
2.88	2.91	2.92	1028395	103.902759			1
+ 3.21	3.23	3.25	33485.14	2.832801			2
3.21	3.24	3.25	84349.7	7.135878			2
+ 3.40	3.41	3.44	50990.05	4.386594			3
3.40	3.43	3.44	104135.2	8.958588			3
3.47	3.49	3.51	72941.12	5.490375			4
3.64	3.65	3.68	224881.1	20.558885			5
+ 3.73	3.73	3.77	154408.4	15.759502			6
3.73	3.74	3.77	205999.6	21.025094			6
Height Summation:			**1720701.72**				
Amount Avg CF:			**27.845263**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998234** RI ACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342A
Result file : 20PCBS17137004.009.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	21.30	
4.73	4.76	4.77	1501476	351.934547			1
5.03	5.05	5.07	1421075	602.833685			2
+ 5.20	5.20	5.24	23805.4	8.624459			3
5.20	5.23	5.24	1016892	368.409812			3
5.37	5.39	5.41	1238987	393.402422			4
5.61	5.63	5.65	3247960	425.432326			5
5.82	5.84	5.86	1785290	416.270616			6
Height Summation:			**10211680**				
Amount Avg CF:			**426.380568**	Linear:			
Aroclor-1262					6	43.61	
E 5.21	5.23	5.24	1016892	200.094817			1
E 5.37	5.39	5.41	1238987	301.781845			2
E 5.61	5.63	5.65	3247960	327.313807			3
E 5.81	5.84	5.85	1785290	325.547722			4
5.87	5.88	5.91	170890.2	62.904388			5
+ 5.87	5.89	5.91	65268.36	24.025171			5
E 6.25	6.27	6.29	664244.1	200.978067			6
Height Summation:			**8124263.3**				
Amount Avg CF:			**236.436774**	Linear:			
Aroclor-1268					6	121.29	
5.81	5.84	5.85	1785290	146.400755			1
5.87	5.88	5.91	170890.2	16.06124			2
+ 5.87	5.89	5.91	65268.36	6.134294			2
6.00	6.02	6.04	50658.57	5.106033			3
6.07	6.09	6.11	63901.28	28.093828			4
6.25	6.27	6.29	664244.1	162.090144			5
6.45	6.47	6.49	158558.2	4.944162			6
Height Summation:			**2893542.35**				
Amount Avg CF:			**60.44936**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342B
Result file : 20PCBS17137004B.009.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	156.77	
+ 3.40	3.41	3.44	50990.05	8.994284			1
3.40	3.43	3.44	104135.2	18.368712			1
3.51	3.53	3.55	428664.9	26.80937			2
3.63	3.65	3.67	224881.1	11.257237			3
+ 3.72	3.73	3.76	154408.4	10.704678			4
3.72	3.74	3.76	205999.6	14.281343			4
3.86	3.88	3.90	2745506	100.490359			5
4.22	4.24	4.26	4495494	372.152359			6
+ 4.22	4.25	4.26	1563184	129.405715			6
Height Summation:			**8204680.8**				
Amount Avg CF:			**90.559897**	Linear:			
Aroclor-1254					6	91.63	
4.16	4.18	4.19	1985842	93.310811			1
4.22	4.24	4.26	4495494	119.048794			2
+ 4.22	4.25	4.26	1563184	41.395933			2
4.31	4.33	4.35	10554540	600.840606			3
4.38	4.40	4.42	5038826	198.498074			4
E 4.44	4.46	4.48	14191440	970.800698			5
4.60	4.62	4.64	4840925	271.824675			6
Height Summation:			**41107067**				
Amount Avg CF:			**375.72061**	Linear:			
Aroclor-1260					6	8.90	
4.31	4.33	4.35	10554540	367.21739			1
4.44	4.46	4.48	14191440	418.696599			2
4.55	4.57	4.59	9773654	358.399639			3
4.90	4.92	4.94	7239785	345.376127			4
5.09	5.11	5.13	20363710	428.069918			5
5.35	5.37	5.39	12868790	404.387273			6
Height Summation:			**74991919**				
Amount Avg CF:			**387.024491**	Linear:			
Aroclor-1262					6	37.94	
4.71	4.73	4.75	5273106	159.810972			1
E 4.90	4.92	4.94	7239785	220.573299			2
E 5.09	5.11	5.13	20363710	326.176392			3
5.31	5.33	5.35	2953407	114.163993			4
E 5.35	5.37	5.39	12868790	309.047342			5
5.73	5.75	5.77	4301926	190.897165			6
Height Summation:			**53000724**				
Amount Avg CF:			**220.111527**	Linear:			
Aroclor-1268					6	117.07	
5.31	5.33	5.35	2953407	35.053934			1
5.35	5.37	5.39	12868790	150.859972			2
5.51	5.53	5.55	381521.7	5.20601			3
5.57	5.59	5.61	288061.9	16.257651			4
5.73	5.75	5.77	4301926	149.822707			5
5.93	5.95	5.97	1013771	4.645529			6
Height Summation:			**21807477.6**				
Amount Avg CF:			**60.307634**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.0982	9.725		** 114.54	4	40	
Aroclor-1221			50.0982	15.0295		** 159.99	3	5	
Aroclor-1232			50.0982	12.0825		** 88.71	4	10	
Aroclor-1242			50.0982	12.0825		** 112.32	4	30	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998234** RI ACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342A
Result file : 20PCBS17137004.009.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 15:18:13
Instrument : CP20--17342B
Result file : 20PCBS17137004B.009.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1248			50.0982	9.725		36.86	4	40	
Aroclor-1254			50.0982	12.9666		5.11	4	40	
Aroclor-1260			50.0982	11.4931		9.68	4	40	
Aroclor-1262			50.0982	9.725	E	7.15	4	40	
Aroclor-1268			50.0982	9.725		0.23	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998234 RI ACF AB42A01 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:18:13 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.009.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.006		5680	3109
2.038		5108	4724
2.106		8221	8993
2.131		150583	100049
2.199		29178	18905
2.219		9078	5477
2.285		1492	933
2.311		114685	83545
2.389		11305	10968
2.423		1156	667
2.567		3250	2596
2.627		6419	4037
2.649		18442	11790
2.733		3257	4315
2.802		1345	788
2.83		2290	1788
2.876		1265	1015
2.925	TCX	3410082	2219026
3.038		8849	5307
3.079		2034	2425
3.108		2606	1245
3.125		4969	2892
3.18		3403	4736
3.23		39018	18505
3.244		137863	77522
3.317		1312	1488
3.397		5947	3689
3.467		2151	1019
3.513		6477	4301
3.588		21972	17845
3.627		1480	1018
3.657		6055	4412
3.698		12265	14518
3.733		28472	23775
3.788		9115	8600
3.831		1131	1167
3.856		59302	43690
3.889		19782	19858
3.904		24653	13139
3.979		27669	19672
4.003		5707	3363
4.034		15056	10292
4.068		40195	47848
4.112		12353	9493
4.139		5829	3694
4.19		14540	10285
4.228		287919	214147
4.249		87150	51472
4.273		139594	105982
4.339		118773	101493
4.382		630015	601406
4.416		269973	224767
4.456		29923	23014
4.479		30182	21309

RT A	Compound A	Height A	Area A
4.521		228639	226368
4.574		157161	117751
4.588		49581	20792
4.604		88753	52773
4.634		1110576	932417
4.68		555612	636813
4.718		208820	153611
4.757		1501476	1411053
4.807		87820	83800
4.848		886890	831350
4.878		21891	12534
4.904		308714	293003
4.956		2145274	2644798
5.006		288806	257735
5.049		1421075	1420386
5.092		74164	53506
5.128		206925	253135
5.165		2997967	3076705
5.204		23805	8215
5.227		1016892	880228
5.27		708956	671744
5.319		4900	5245
5.391		1238987	1846461
5.45		589572	536388
5.49		327959	302799
5.53		67757	64292
5.574		488849	435500
5.601		33677	18477
5.632		3247961	3262077
5.718		6271	5928
5.75		2682	2369
5.773		2069	1303
5.802		947	916
5.837		1785290	1802040
5.875		170890	157905
5.887		65268	91890
5.987		5628	4078
6.021		50659	58353
6.086		63901	49079
6.109		269116	231313
6.17		1347	1359
6.266		664244	663017
6.311		44779	44120
6.466		158558	158802
6.611	DCB	1975271	2132718
6.689		6412	5609
6.921		1538	4345
7.723		2510	4449
7.776		1460	1806
8.027		9751	16295

LANCASTER LABORATORIES

Sample Number: 8998234 RI ACF AB42A01 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:18:13 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.009.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		20256	15645
2.054		26404	16787
2.115		89777	66452
2.141		4250	1398
2.158		32785	19900
2.184		15900	9926
2.201		4317	1493
2.213		7071	3013
2.241		12361	16914
2.288		4565	2972
2.321		28486	28819
2.365		123569	92908
2.399		13393	9170
2.434		24065	13699
2.461		9994	6883
2.494		7355	9363
2.535		5021	2925
2.556		2407	1203
2.569		8293	3689
2.591		12879	7309
2.616	TCX	20500520	11852100
2.677		8965	4461
2.705		10800	13509
2.736		17577	8577
2.786		55944	31231
2.812		13044	13676
2.837		20659	22801
2.878		7472	4931
2.912		1028395	903640
2.949		17806	8239
2.991		7177	6128
3.035		18356	10043
3.068		16415	10439
3.085		2527	1321
3.107		40728	50249
3.18		26627	19567
3.202		7285	3619
3.227		33485	20556
3.245		84350	43652
3.265		77709	49675
3.321		67881	65825
3.385		67634	67313
3.405		50990	25070
3.434		104135	114673
3.494		72941	57689
3.528		428665	255722
3.551		375051	206961
3.569		259480	135564
3.587		28368	19336
3.614		4593	2294
3.654		224881	149376
3.676		73762	41896
3.698		139435	100631
3.727		154408	80533

RT B	Compound B	Height B	Area B
3.743		206000	118655
3.78		91838	75696
3.83		122323	125082
3.854		226543	134501
3.876		2745506	1779038
3.901		651848	378135
3.92		353121	187744
3.939		703743	431060
3.974		4092756	2699004
4.006		1910476	1245472
4.024		307776	142864
4.044		70226	30323
4.085		208458	163595
4.119		1253821	1058274
4.141		69224	77895
4.176		1985842	1472142
4.211		1010064	983198
4.236		4495494	2546211
4.249		1563184	669536
4.275		1665862	1640579
4.328		10554540	8290459
4.365		666865	562753
4.397		5038826	3413965
4.422		2529403	1700710
4.465		14191440	10860740
4.518		27716	19614
4.567		9773654	9310819
4.617		4840925	3933064
4.658		2820786	2443875
4.695		17208230	14071740
4.727		5273106	3625216
4.765		4513797	3375421
4.839		249632	226126
4.865		945430	626020
4.882		295017	151675
4.917		7239785	5537149
4.94		2450804	1631846
4.991		4204947	3596946
5.026		2160312	1713774
5.056		1491729	1230938
5.087		1026338	621175
5.11		20363710	16363930
5.152		388367	278710
5.183		681541	565816
5.227		12035	7675
5.248		32573	20681
5.282		12030	9221
5.302		144450	88576
5.326		2953407	2490116
5.37		12868790	13170460
5.443		50598	39147
5.526		381522	329595
5.571		371338	285491
5.595		288062	213463
5.643		1956012	1629253
5.686		9004	7781
5.722		7030	3813
5.749		4301926	3643147
5.781		249704	193763
5.892		2948	3064
5.949		1013771	864065
5.979		2963	1451
5.997		4726	3439
6.108	DCB	13752360	11440080
6.283		30141	22793
6.31		80079	65542

RT B	Compound B	Height B	Area B
6.373		3424	3871
6.449		3111	2028
6.483		3125	2693
6.527		5379	7916
6.583		10411	15207
6.638		1946	1364
6.73		4171	5427
6.786		20314	21761
6.878		1643	1019
6.953		2982	4360
7.011		7884	7855
7.063		2134	2287
7.121		3458	4370
7.305		3109	3609
7.426		3691	11868
7.463		4060	4957
7.555		46916	61045
7.847		3194	6239
8.114		5612	9730
8.214		19133	40469
8.426		10516	18825
8.646		1756	743

8998234 RI ACF AB42A01 T 171380028A 10225 SW-846 8082

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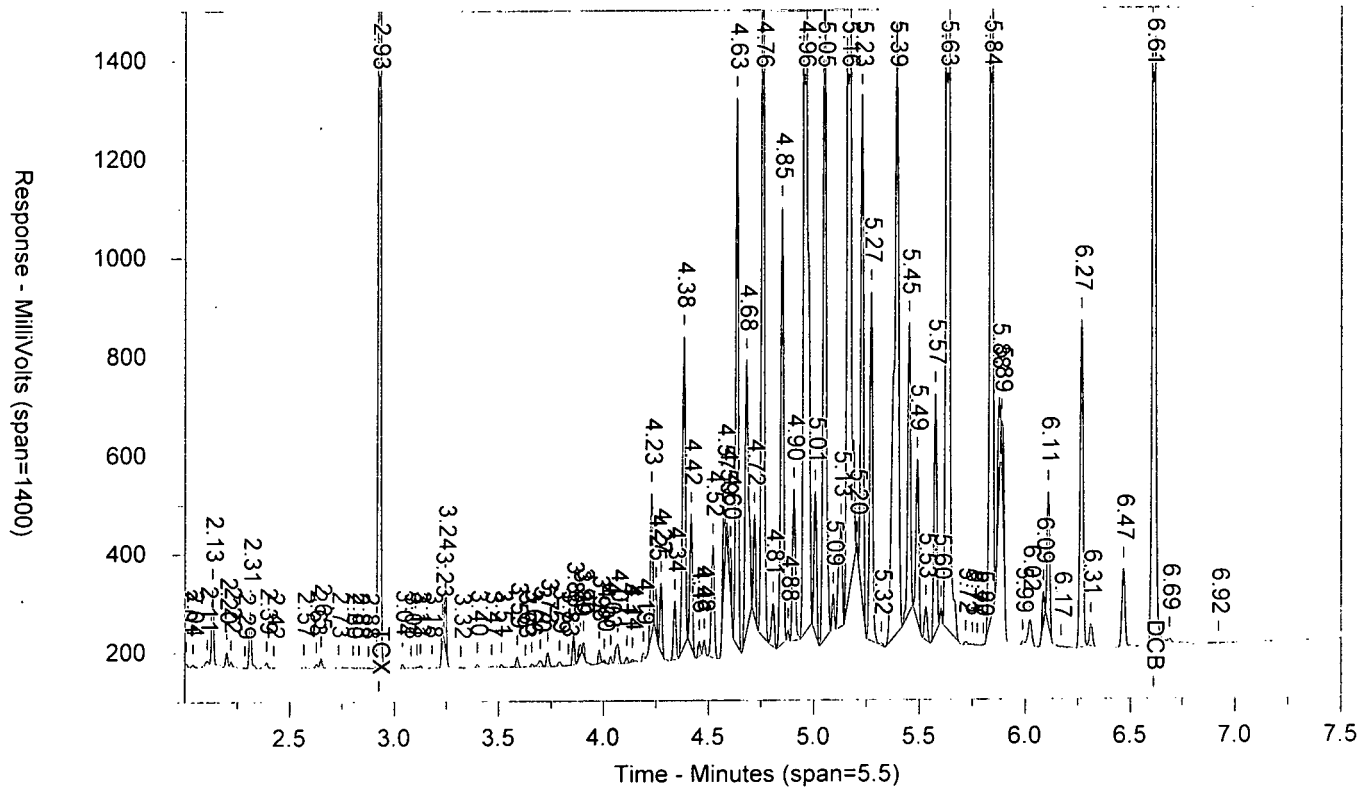

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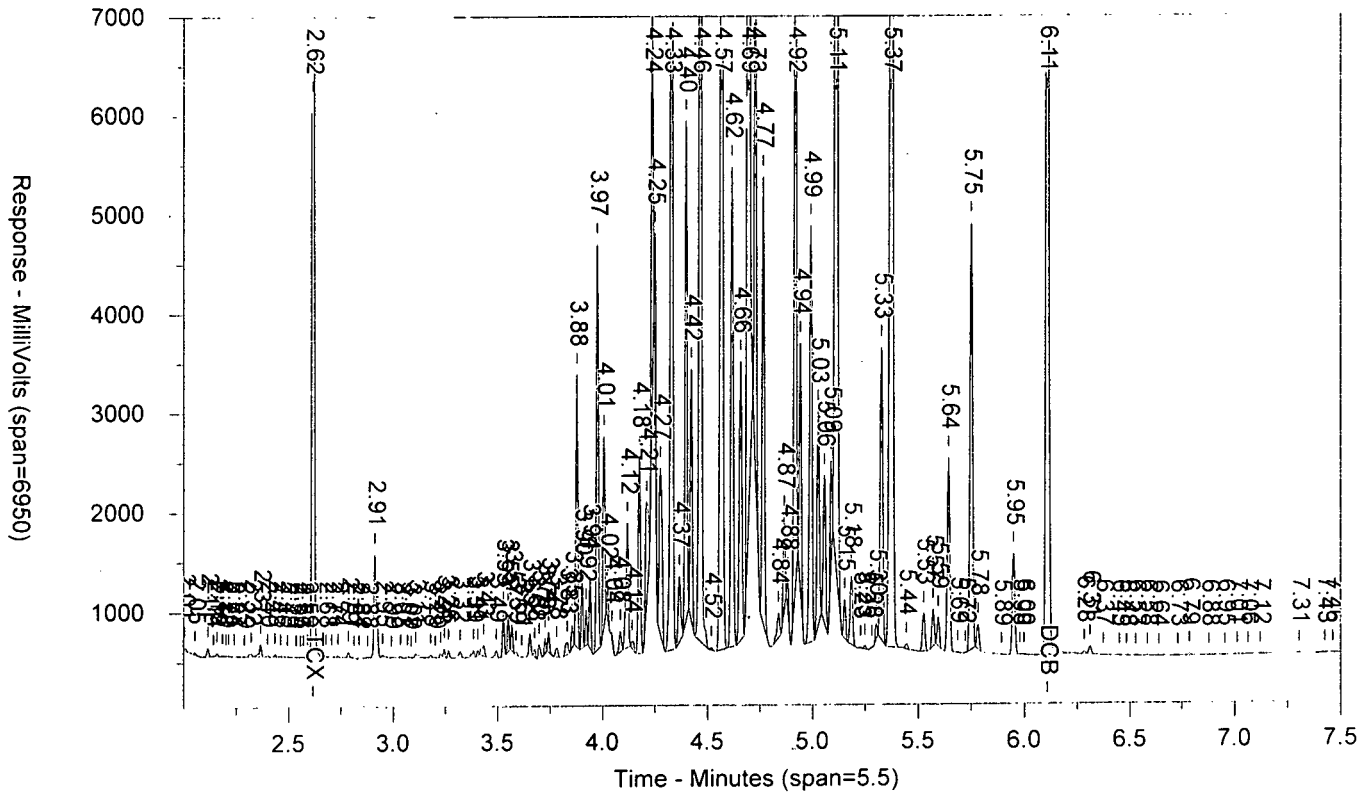

LANCASTER LABORATORIES

Sample Number: 8998234 RI ACF AB42A01 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:18:13 PM Sample Weight: 10.18
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3410082	29.477	TCX	2.616	20500520	29.13	TCX
6.611	1975271	28.196	DCB	6.108	13752360	27.729	DCB

Files:
Area File: 20pcbs17137004.009.RAW
Area File: 20pcbs17137004B.009.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 3:26:56 PM
File Reported On: 5/21/2017 at 3:27:18 PM

8998234 RI ACF AB42A01 T 171380028A 10225 SW-846 8082

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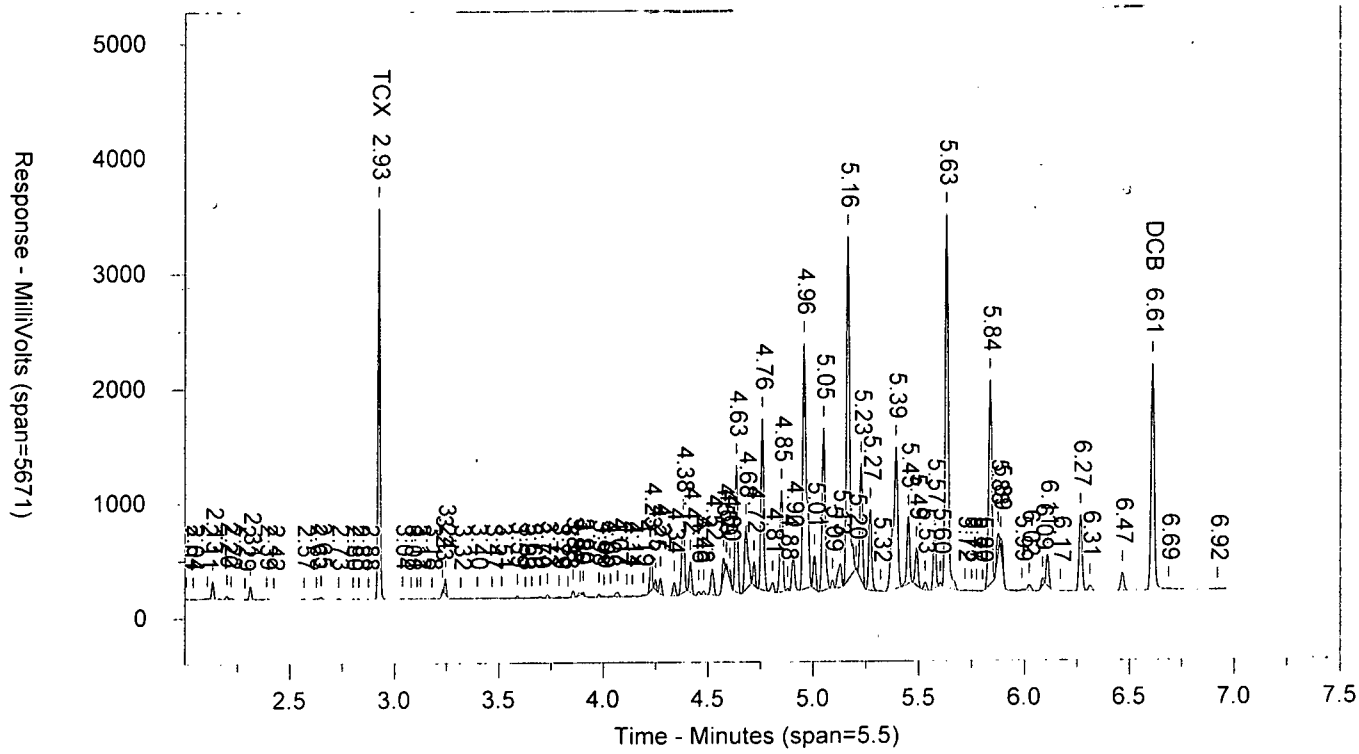

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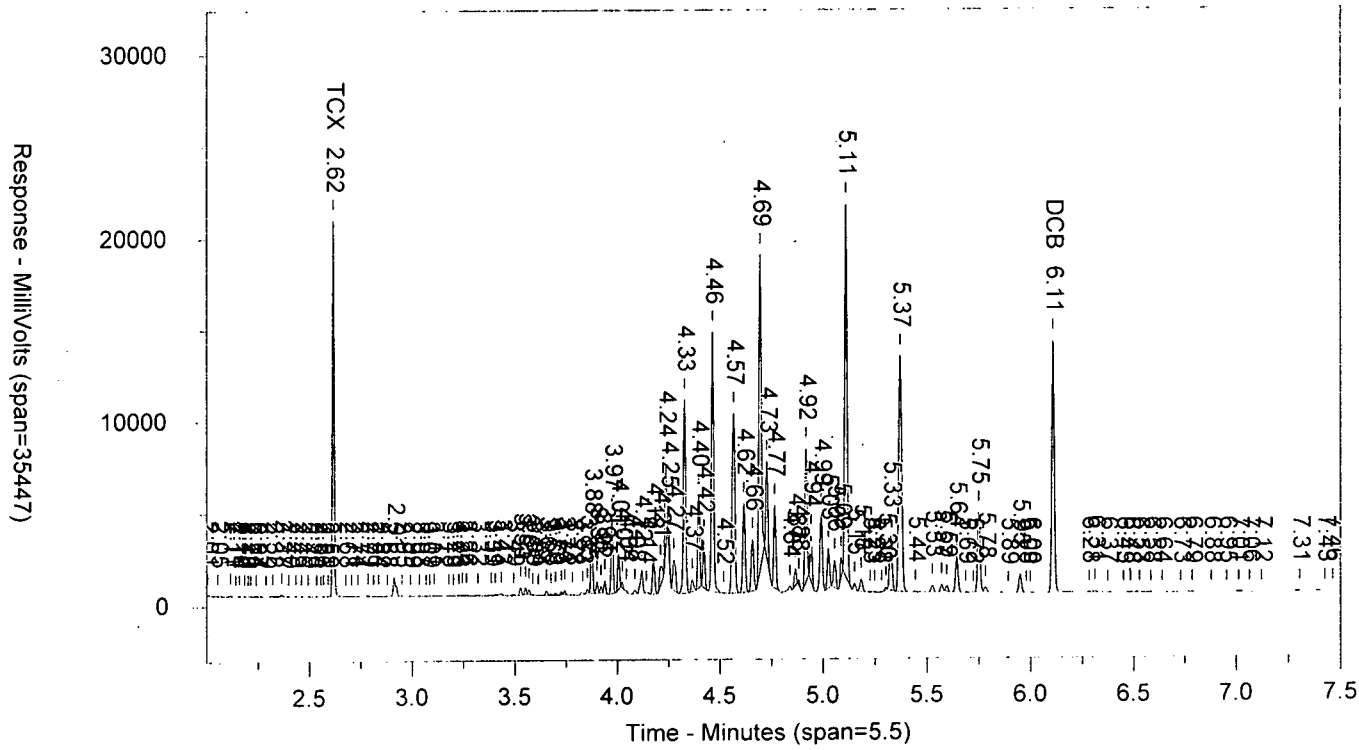

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Data Summary

Sample Name: 8998237 RI ACF 42A02 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:52:16
Instrument	17342A
Result file	20PCBS17137004.012.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 99% (61 - 152) Conc: 28.76784
%SSR(DCB) 104% (48 - 164) Conc: 30.01901

Analysis Report (B)

Injected on	May 21, 2017 15:52:16
Instrument	17342B
Result file	20PCBS17137004B.012.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 101% (61 - 152) Conc: 29.24803
%SSR(DCB) 97% (48 - 164) Conc: 28.10602

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3305152	28.76784
Decachlorobiphenyl	6.58	6.61	6.64	2088523	30.01901

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20441840	29.24803
Decachlorobiphenyl	6.08	6.11	6.14	13843270	28.10602

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	29.24803				1.66	
☑ Decachlorobiphenyl	A	30.01901				6.58	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**23.39**	
4.73	4.76	4.77	1114511	263.04163			1
5.03	5.05	5.07	1157434	494.394204			2
5.20	5.23	5.24	794719.7	289.912512			3
5.37	5.39	5.41	1017152	325.201665			4
5.61	5.63	5.65	2667498	351.820012			5
5.82	5.84	5.86	1464366	343.805834			6

Height summation: **8215680.7**
Concentration CF: **344.695976** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.00**	
4.31	4.33	4.35	7940212	278.171512			1
4.44	4.46	4.48	10721570	318.513597			2
4.55	4.57	4.59	7725222	285.245101			3
4.90	4.92	4.94	5789356	278.09522			4
5.09	5.11	5.13	16429270	347.754449			5
5.35	5.37	5.39	10587030	334.988988			6

Height summation: **59192660**
Concentration CF: **307.128145** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<50.4451	<9.7923			4	
☑ PCB-1221			<50.4451	<15.1335			3	
☑ PCB-1232			<50.4451	<12.1662			4	
☑ PCB-1242			<50.4451	<12.1662			4	
☑ PCB-1248			<50.4451	<9.7923			4	
☑ PCB-1254			<50.4451	<13.0564			4	
☑ PCB-1260	A	344.695976	50.4451	11.5727		11.53	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998237** RI ACF 42A02 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.012.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 99% (61-152) Conc.: 28.76784
%SSR(DCB) : 104% (48-164) Conc.: 30.01901

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	80.30	
3.16	3.19	3.20	5845.092	2.817667			1
3.37	3.40	3.41	4531.812	2.139415			2
3.49	3.51	3.53	3842.359	1.611185			3
3.71	3.73	3.75	18651.51	7.059091			4
3.76	3.79	3.80	7370.451	3.410484			5
3.96	3.98	4.00	19895.05	11.481245			6
Height Summation:			**60136.274**				
Amount Avg CF:			**4.753181**	Linear:			
Aroclor-1221					3	68.08	
3.06	3.07	3.10	1967.494	1.979907			1
3.11	3.12	3.15	5163.054	6.009894			2
3.16	3.19	3.20	5845.092	2.106075			3
Height Summation:			**12975.64**				
Amount Avg CF:			**3.365292**	Linear:			
Aroclor-1232					6	95.12	
3.16	3.19	3.20	5845.092	2.347884			1
3.38	3.40	3.42	4531.812	4.52391			2
3.49	3.51	3.53	3842.359	3.495715			3
3.71	3.73	3.75	18651.51	15.642382			4
3.77	3.79	3.81	7370.451	7.884505			5
3.96	3.98	4.00	19895.05	27.531903			6
Height Summation:			**60136.274**				
Amount Avg CF:			**10.237716**	Linear:			
Aroclor-1242					6	81.58	
3.16	3.19	3.20	5845.092	3.289052			1
3.38	3.40	3.42	4531.812	2.582408			2
3.49	3.51	3.53	3842.359	1.999581			3
3.71	3.73	3.75	18651.51	8.628248			4
3.77	3.79	3.81	7370.451	4.354811			5
3.96	3.98	4.00	19895.05	14.379255			6
Height Summation:			**60136.274**				
Amount Avg CF:			**5.872226**	Linear:			
Aroclor-1248					6	202.43	
3.76	3.79	3.80	7370.451	6.281592			1
3.83	3.85	3.87	40623.02	19.037587			2
3.96	3.98	4.00	19895.05	7.91689			3
4.05	4.07	4.09	27006.23	12.927639			4
4.23	4.25	4.27	71424.54	28.861985			5
4.61	4.63	4.65	799767.4	440.865522			6
Height Summation:			**966086.691**				
Amount Avg CF:			**85.981869**	Linear:			
Aroclor-1254					6	95.35	
4.21	4.23	4.25	203628.8	69.789671			1
4.55	4.57	4.59	139687.3	47.638148			2
+ 4.55	4.59	4.59	23988.66	8.180954			2
4.61	4.63	4.65	799767.4	135.044416			3
4.73	4.76	4.77	1114511	626.973187			4
4.83	4.85	4.87	704851.3	180.100003			5
5.14	5.16	5.18	2335332	580.894884			6
Height Summation:			**5297777.8**				
Amount Avg CF:			**273.406718**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.012.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 101% (61-152) Conc.: 29.24803
%SSR(DCB) : 97% (48-164) Conc.: 28.10602

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	144.72	
2.88	2.91	2.92	846376.8	74.035717			1
+ 3.21	3.23	3.25	21620.84	1.521881			2
3.21	3.25	3.25	105711.5	7.440982			2
+ 3.40	3.40	3.44	35246.08	2.469028			3
+ 3.40	3.42	3.44	13167.16	0.922375			3
3.40	3.43	3.44	47141.65	3.302326			3
3.47	3.49	3.51	55271.44	3.274009			4
3.63	3.65	3.67	162733	11.473078			5
+ 3.72	3.73	3.76	86311.51	7.101402			6
3.72	3.74	3.76	168413.3	13.856443			6
Height Summation:			**1385647.69**				
Amount Avg CF:			**18.897093**	Linear:			
Aroclor-1221					3	126.09	
2.77	2.79	2.81	41967.03	6.956027			1
2.83	2.84	2.87	19397.81	5.215698			2
2.88	2.91	2.92	846376.8	54.859153			3
Height Summation:			**907741.64**				
Amount Avg CF:			**22.343626**	Linear:			
Aroclor-1232					6	77.87	
+ 2.88	2.88	2.92	7340.935	0.525606			1
2.88	2.91	2.92	846376.8	60.600029			1
+ 3.21	3.23	3.25	21620.84	3.203026			2
3.21	3.25	3.25	105711.5	15.660665			2
+ 3.40	3.40	3.44	35246.08	5.83635			3
+ 3.40	3.42	3.44	13167.16	2.180332			3
3.40	3.43	3.44	47141.65	7.806121			3
3.47	3.49	3.51	55271.44	7.449539			4
+ 3.66	3.68	3.70	52624.21	25.971573			5
3.66	3.70	3.70	99411.48	49.062447			5
+ 3.73	3.73	3.77	86311.51	16.247574			6
3.73	3.74	3.77	168413.3	31.702695			6
Height Summation:			**1322326.17**				
Amount Avg CF:			**28.713583**	Linear:			
Aroclor-1242					6	139.65	
+ 2.88	2.88	2.92	7340.935	0.746819			1
2.88	2.91	2.92	846376.8	86.104827			1
+ 3.21	3.23	3.25	21620.84	1.84176			2
3.21	3.25	3.25	105711.5	9.00498			2
+ 3.40	3.40	3.44	35246.08	3.053159			3
+ 3.40	3.42	3.44	13167.16	1.140593			3
3.40	3.43	3.44	47141.65	4.083602			3
3.47	3.49	3.51	55271.44	4.18916			4
3.64	3.65	3.68	162733	14.980243			5
+ 3.73	3.73	3.77	86311.51	8.870271			6
3.73	3.74	3.77	168413.3	17.307908			6
Height Summation:			**1385647.69**				
Amount Avg CF:			**22.611787**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998237** RI ACF 42A02 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.012.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	23.39	
4.73	4.76	4.77	1114511	263.04163			1
5.03	5.05	5.07	1157434	494.394204			2
5.20	5.23	5.24	794719.7	289.912512			3
5.37	5.39	5.41	1017152	325.201665			4
5.61	5.63	5.65	2667498	351.820012			5
5.82	5.84	5.86	1464366	343.805834			6
Height Summation:			**8215680.7**				
Amount Avg CF:			**344.695976**	Linear:			
Aroclor-1262					6	43.24	
5.21	5.23	5.24	794719.7	157.460494			1
E 5.37	5.39	5.41	1017152	249.46455			2
E 5.61	5.63	5.65	2667498	270.678884			3
E 5.81	5.84	5.85	1464366	268.876068			4
5.87	5.87	5.91	141571.3	52.472967			5
+ 5.87	5.89	5.91	117696	43.623661			5
6.25	6.26	6.29	590554.1	179.9191			6
Height Summation:			**6675861.1**				
Amount Avg CF:			**196.478677**	Linear:			
Aroclor-1268					6	99.54	
5.81	5.84	5.85	1464366	120.915173			1
5.87	5.87	5.91	141571.3	13.397808			2
+ 5.87	5.89	5.91	117696	11.138334			2
6.00	6.02	6.04	46246.27	4.693578			3
+ 6.07	6.08	6.11	51977.64	23.00989			4
6.07	6.11	6.11	225367.2	99.767408			4
6.25	6.26	6.29	590554.1	145.105948			5
6.45	6.46	6.49	136896.5	4.298262			6
Height Summation:			**2605001.37**				
Amount Avg CF:			**64.696363**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.012.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	178.97	
+ 3.40	3.40	3.44	35246.08	6.260206			1
+ 3.40	3.42	3.44	13167.16	2.338675			1
3.40	3.43	3.44	47141.65	8.373028			1
3.51	3.53	3.55	288926.4	18.19502			2
3.63	3.65	3.67	162733	8.202592			3
+ 3.72	3.73	3.76	86311.51	6.025152			4
3.72	3.74	3.76	168413.3	11.756436			4
3.86	3.87	3.90	2003852	73.852341			5
4.22	4.24	4.26	4764344	397.139503			6
Height Summation:			**7435410.35**				
Amount Avg CF:			**86.253153**	Linear:			
Aroclor-1254					6	85.71	
4.16	4.17	4.19	1546163	73.154184			1
4.22	4.24	4.26	4764344	127.041997			2
4.31	4.33	4.35	7940212	455.143857			3
4.38	4.40	4.42	4064005	161.204734			4
4.44	4.46	4.48	10721570	738.513812			5
4.60	4.62	4.64	3954696	223.599203			6
Height Summation:			**32990990**				
Amount Avg CF:			**296.442965**	Linear:			
Aroclor-1260					6	10.00	
4.31	4.33	4.35	7940212	278.171512			1
4.44	4.46	4.48	10721570	318.513597			2
4.55	4.57	4.59	7725222	285.245101			3
4.90	4.92	4.94	5789356	278.09522			4
5.09	5.11	5.13	16429270	347.754449			5
5.35	5.37	5.39	10587030	334.988988			6
Height Summation:			**59192660**				
Amount Avg CF:			**307.128144**	Linear:			
Aroclor-1262					6	36.37	
4.71	4.73	4.75	4153229	126.742594			1
4.90	4.92	4.94	5789356	177.604575			2
E 5.09	5.11	5.13	16429270	264.978422			3
5.31	5.32	5.35	2620985	102.015699			4
E 5.35	5.37	5.39	10587030	256.010669			5
5.73	5.75	5.77	3756067	167.828803			6
Height Summation:			**43335937**				
Amount Avg CF:			**182.530127**	Linear:			
Aroclor-1268					6	115.61	
5.31	5.32	5.35	2620985	31.323813			1
5.35	5.37	5.39	10587030	124.970375			2
5.51	5.52	5.55	335661	4.611936			3
5.57	5.59	5.61	261332.6	14.851222			4
5.73	5.75	5.77	3756067	131.717857			5
5.93	5.95	5.97	894278.5	4.126337			6
Height Summation:			**18455354.1**				
Amount Avg CF:			**51.93359**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.4451	9.7923		** 119.61	4	40	
Aroclor-1221			50.4451	15.1335		** 147.64	3	5	
Aroclor-1232			50.4451	12.1662		** 94.87	4	10	
Aroclor-1242			50.4451	12.1662		** 117.54	4	30	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998237** RI ACF 42A02 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.012.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 15:52:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.012.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1248			50.4451	9.7923		0.32	4	40	
Aroclor-1254			50.4451	13.0564		8.09	4	40	
Aroclor-1260			50.4451	11.5727		11.53	4	40	
Aroclor-1262			50.4451	9.7923	E	7.36	4	40	
Aroclor-1268			50.4451	9.7923		21.89	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998237 RI ACF AB42A02 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:52:16 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.012.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.006		4748	2366
2.038		4278	4064
2.103		6840	8915
2.131		163741	110345
2.198		22720	14811
2.219		9063	5173
2.285		1727	1012
2.31		37344	23859
2.329		2941	1425
2.389		28045	21065
2.424		1789	1150
2.537		874	437
2.566		2360	1735
2.627		6413	4005
2.649		15367	9566
2.698		1114	687
2.743		9095	9047
2.784		1172	524
2.8		1620	834
2.828		2931	2057
2.876		1326	1130
2.925	TCX	3305153	2209058
3.038		6760	4102
3.07		1967	2260
3.109		2627	1483
3.125		5163	3031
3.194		5845	5949
3.23		26962	13335
3.244		117213	67315
3.315		1031	625
3.333		978	558
3.364		1451	995
3.396		4532	2903
3.466		1743	808
3.512		3842	3430
3.586		20219	14695
3.625		1530	1341
3.656		7954	5609
3.694		10504	12215
3.731		18652	15417
3.788		7370	7242
3.826		791	805
3.854		40623	28616
3.884		14155	12617
3.903		20202	11045
3.978		19895	13621
4.002		4633	3029
4.032		10508	7133
4.067		27006	32894
4.109		8856	6894
4.137		3878	2377
4.188		8759	6351
4.226		203629	149373
4.247		71425	42742

RT A	Compound A	Height A	Area A
4.271		109079	84038
4.338		84835	73839
4.38		456769	446087
4.414		199311	168337
4.454		23069	17103
4.477		21258	15488
4.519		170813	165796
4.572		139687	98292
4.586		23989	9985
4.603		81388	47627
4.633		799767	715963
4.679		404141	458987
4.716		158946	120896
4.755		1114511	1040227
4.806		71471	66797
4.847		704851	678822
4.877		15713	8795
4.902		243872	226827
4.955		1711801	2015809
5.005		212955	197564
5.048		1157434	1126654
5.091		62815	44641
5.127		163093	201951
5.163		2335332	2495486
5.226		794720	689982
5.268		531894	524503
5.319		4355	3989
5.389		1017153	1480724
5.449		466676	437175
5.488		257518	240985
5.529		54991	52696
5.574		396942	363996
5.6		31043	16670
5.63		2667498	2616409
5.721		3630	3994
5.751		2308	1687
5.771		1305	951
5.797		1345	859
5.836		1464367	1475250
5.872		141571	132890
5.888		117696	84023
5.985		3757	2580
6.02		46246	50416
6.084		51978	40839
6.107		225367	194634
6.21		2404	4311
6.263		590554	565398
6.308		39571	37449
6.385		1014	1127
6.463		136897	140206
6.502		1333	1159
6.608	DCB	2088523	2177963
6.685		4735	4122
6.849		1143	911
6.938		3861	14567
7.082		965	3205
7.384		472	1040
7.465		623	989
7.541		848	403
7.719		2548	4718
7.772		1428	1867
8.02		23313	38273
8.225		602	733
8.586		1344	2938

LANCASTER LABORATORIES

Sample Number: 8998237 RI ACF AB42A02 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:52:16 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.012.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		17066	10070
2.055		26843	17522
2.115		212918	131506
2.14		5369	3045
2.158		24058	15233
2.184		14263	9758
2.214		6580	3123
2.238		15564	20158
2.287		3911	2939
2.312		9527	4709
2.366		104971	79218
2.398		15559	11058
2.419		2463	1179
2.435		46756	25991
2.462		40537	21896
2.494		7265	3873
2.536		7076	4778
2.557		4010	2041
2.57		6919	3521
2.592		13805	8397
2.616	TCX	20441840	11872680
2.678		7225	4585
2.694		4252	1722
2.736		18573	9244
2.757		2853	2610
2.786		41967	22819
2.814		15270	16067
2.836		19398	22164
2.879		7341	4735
2.912		846377	745439
2.949		16631	7723
2.995		9690	9153
3.019		3778	1541
3.034		12416	5762
3.068		4630	3123
3.09		3495	2580
3.108		18255	8805
3.146		8098	3447
3.181		20405	16781
3.202		6634	3293
3.227		21621	13016
3.245		105712	55100
3.265		46784	30130
3.321		88691	76159
3.375		8605	3822
3.385		48722	22302
3.404		35246	16937
3.419		13167	6139
3.434		47142	27484
3.492		55271	42676
3.526		288926	171898
3.55		235971	133647
3.568		199397	103759
3.588		21084	14445

RT B	Compound B	Height B	Area B
3.613		3634	1916
3.652		162733	107021
3.675		52624	29039
3.697		99411	69761
3.725		86312	45648
3.742		168413	94627
3.78		61503	52138
3.828		80469	79733
3.853		203743	117555
3.874		2003852	1299180
3.899		569059	327262
3.919		240189	127076
3.938		496712	310512
3.973		2944912	2005886
4.005		1466532	976183
4.023		210630	96145
4.084		168544	133225
4.118		994952	781784
4.145		71142	62379
4.174		1546163	1172093
4.208		822589	768501
4.235		4764344	4926718
4.274		1196721	1199423
4.327		7940212	6128685
4.364		542861	451977
4.395		4064005	2858948
4.42		1862201	1278875
4.463		10721570	8299631
4.517		29072	21540
4.566		7725222	7128056
4.616		3954696	3274846
4.657		2209390	1927850
4.694		13415660	10998860
4.726		4153229	2807245
4.765		3506856	2675264
4.838		225321	210067
4.864		697764	484974
4.881		290641	160344
4.916		5789357	4434426
4.939		1941596	1331718
4.989		3176887	2885896
5.025		1776484	1377855
5.055		1237298	1012715
5.087		814211	521732
5.109		16429270	13151790
5.151		311519	227423
5.183		537541	456472
5.226		11092	7088
5.246		23883	16641
5.281		10889	8102
5.301		133655	82747
5.324		2620985	2112441
5.368		10587030	10941030
5.443		36467	24984
5.525		335661	285988
5.569		334544	245022
5.593		261333	192008
5.642		1593742	1377696
5.722		6461	3622
5.748		3756067	3139780
5.779		224928	168338
5.856		6515	6412
5.948		894279	768857
6.033		2121	2403
6.062		2987	1506
6.107	DCB	13843270	11807860

RT B	Compound B	Height B	Area B
6.235		3724	2879
6.28		24765	17505
6.308		93618	78446
6.443		3316	3327
6.487		3097	3462
6.526		6111	7765
6.579		11571	17084
6.728		4257	6435
6.781		19595	20124
6.822		2156	2804
6.913		2106	2534
7.008		6743	8136
7.058		2775	3302
7.121		3084	4008
7.299		6801	26181
7.431		2995	11331
7.461		6061	8133
7.551		122828	154249
8.107		5948	9506
8.21		19124	32944
8.422		15561	30078
8.623		2308	3786

8998237 RI ACF AB42A02 T 171380028A 10225 SW-846 8082

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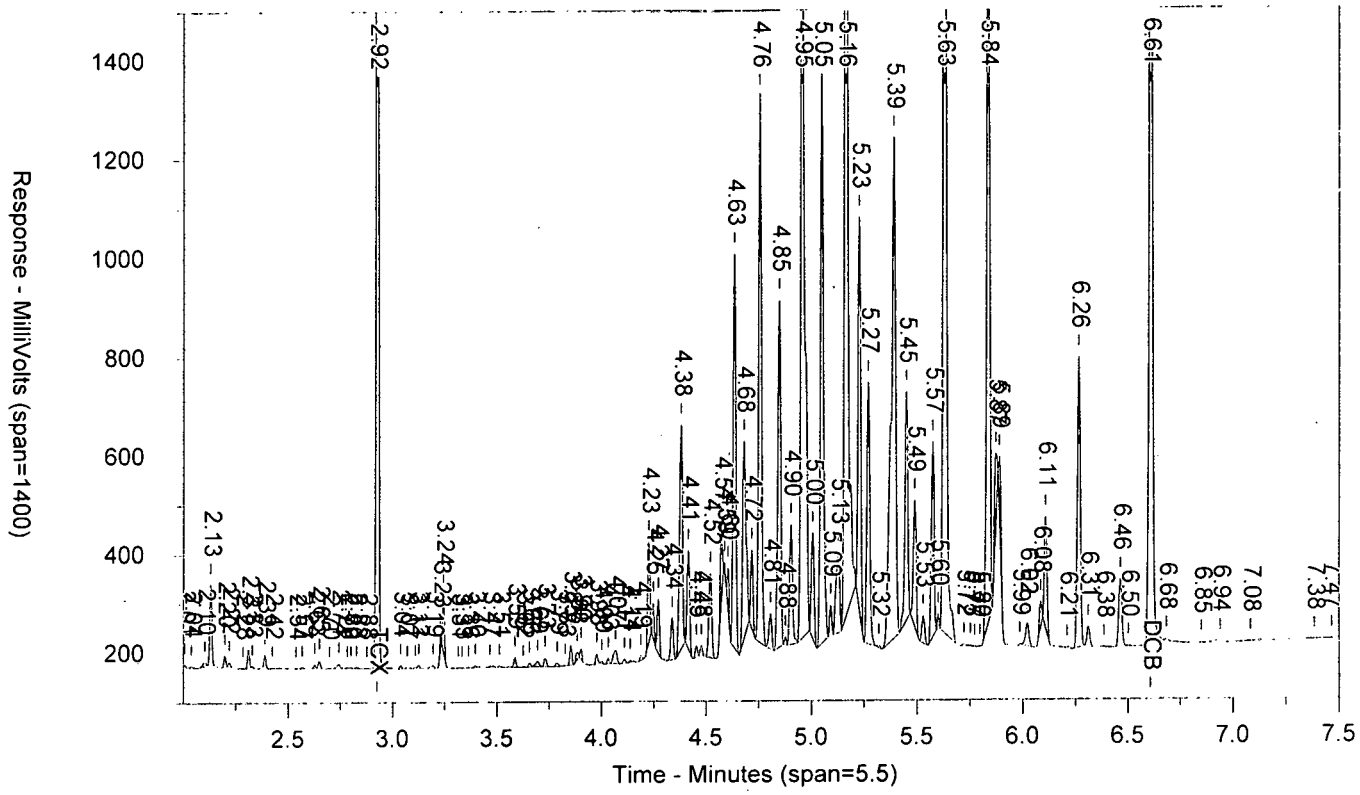

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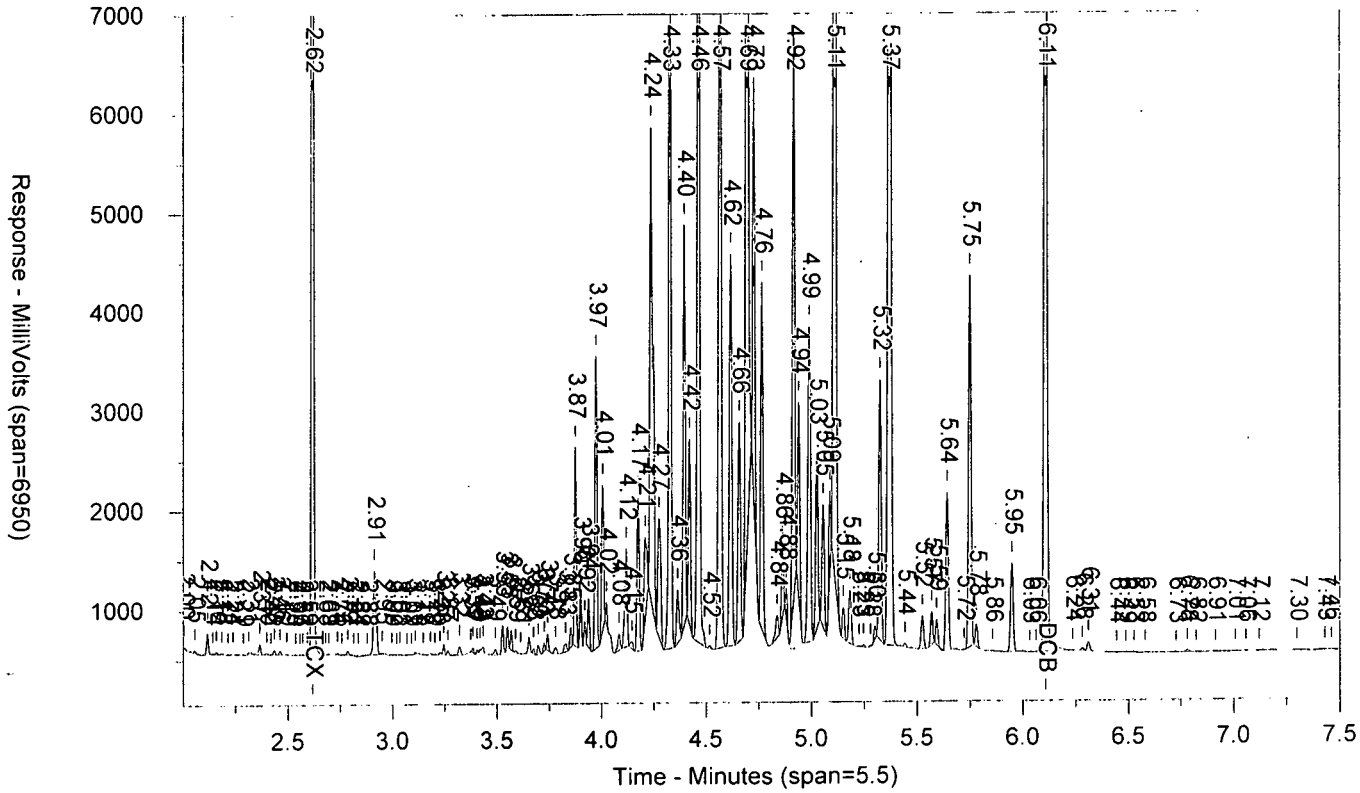

LANCASTER LABORATORIES

Sample Number: 8998237 RI ACF AB42A02 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:52:16 PM Sample Weight: 10.11
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3305153	28.768	TCX	2.616	20441840	29.248	TCX
6.608	2088523	30.019	DCB	6.107	13843270	28.106	DCB

Files:
Area File: 20pcbs17137004.012.RAW
Area File: 20pcbs17137004B.012.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:00:59 PM
File Reported On: 5/21/2017 at 4:01:07 PM

8998237 RI ACF AB42A02 T 171380028A 10225 SW-846 8082

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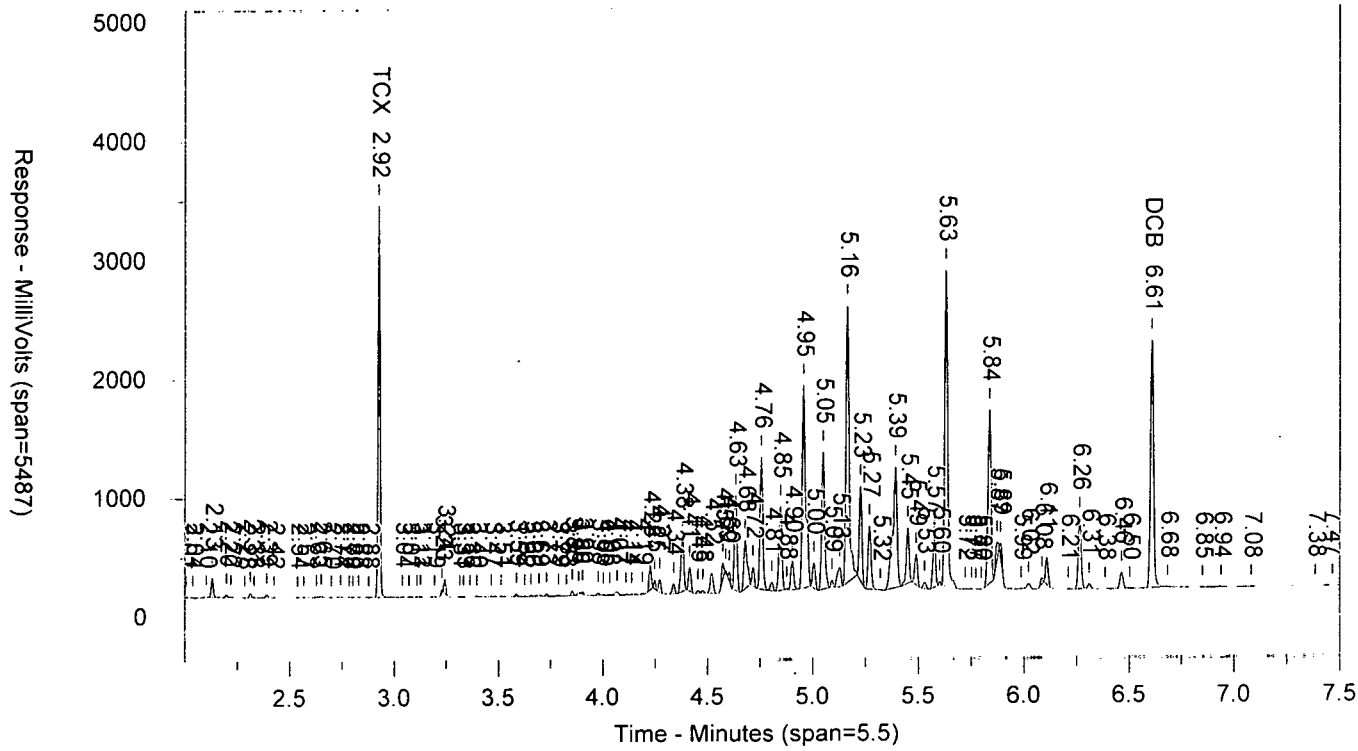

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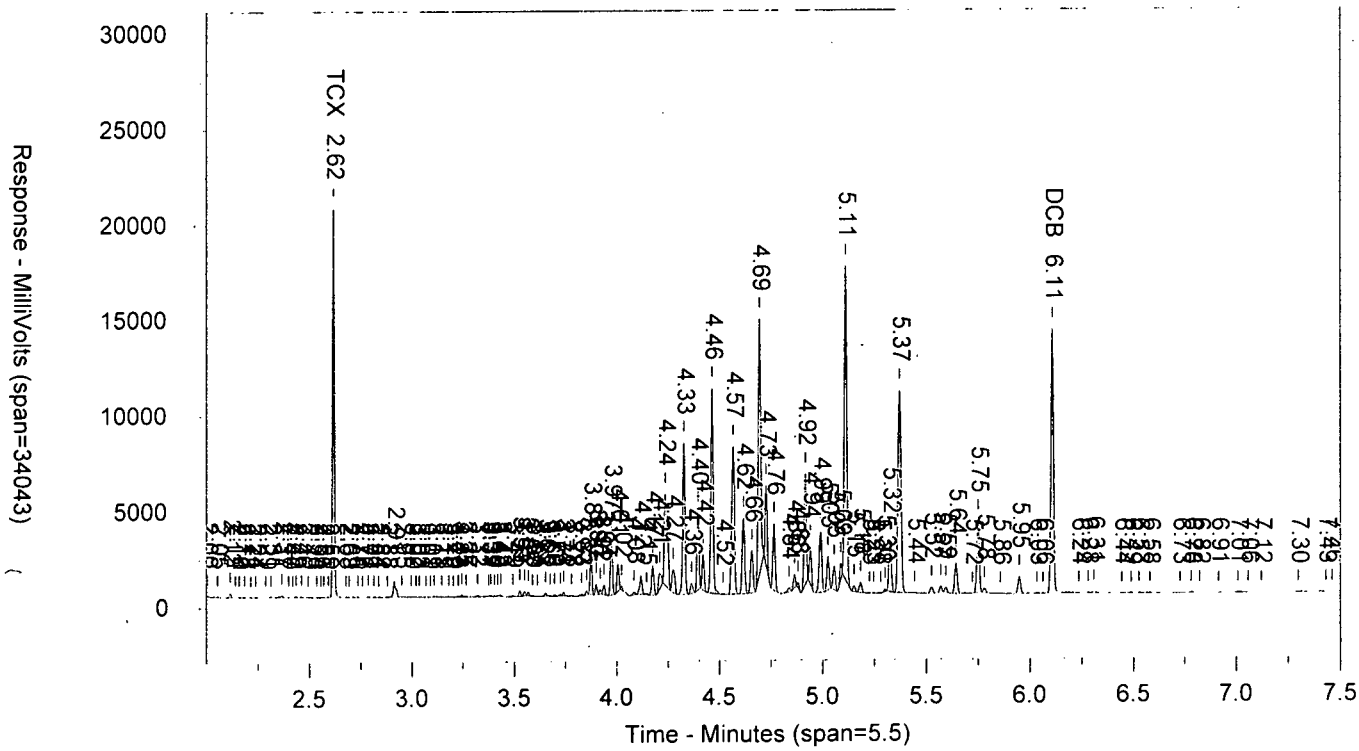

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Data Summary

Sample Name: 8998238 ACF DF5 42A03 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 16:03:46
Instrument	17342A
Result file	20PCBS17137004.013.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 98% (61 - 152) Conc: 27.51184
%SSR(DCB) 93% (48 - 164) Conc: 26.04221

Analysis Report (B)

Injected on	May 21, 2017 16:03:46
Instrument	17342B
Result file	20PCBS17137004B.013.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 94% (61 - 152) Conc: 26.45174
%SSR(DCB) 98% (48 - 164) Conc: 27.63205

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	652180	27.51184
Decachlorobiphenyl	6.58	6.61	6.64	373838	26.04221

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	3814526	26.45174
Decachlorobiphenyl	6.08	6.11	6.14	2808120	27.63205

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	27.51184				3.93	
☑ Decachlorobiphenyl	B	27.63205				5.92	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**13.82**	
4.73	4.76	4.77	1061884	1214.658117			1
5.03	5.05	5.07	863619.1	1787.871184			2
5.20	5.23	5.24	733574.4	1296.98215			3
5.37	5.39	5.41	935179.4	1449.101099			4
5.61	5.63	5.65	2441639	1560.755023			5
5.82	5.84	5.86	1321898	1504.175125			6

Height summation: **7357793.9**
Concentration CF: **1468.923783** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.17**	
4.31	4.33	4.35	7750454	1315.96563			1
4.44	4.46	4.48	10381800	1494.786271			2
4.55	4.57	4.59	7013095	1255.029111			3
4.90	4.92	4.94	5599096	1303.521005			4
5.09	5.11	5.13	14985330	1537.296332			5
5.35	5.37	5.39	8946173	1371.925508			6

Height summation: **54675948**
Concentration CF: **1379.753976** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<244.4871	<47.4593			4	
☑ PCB-1221			<244.4871	<73.3461			3	
☑ PCB-1232			<244.4871	<58.9645			4	
☑ PCB-1242			<244.4871	<58.9645			4	
☑ PCB-1248			<244.4871	<47.4593			4	
☑ PCB-1254			<244.4871	<63.279			4	
☑ PCB-1260	A	1468.923783	244.4871	56.0882		6.26	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomczyko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998238** ACF DF5 42A03 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.013.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 98% (61-152) Conc.: 27.51184
%SSR(DCB) : 93% (48-164) Conc.: 26.04221

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**96.88**	
3.16	3.19	3.20	2939.156	6.866853			1
3.37	3.40	3.41	4276.21	9.78406			2
+ 3.49	3.49	3.53	1286.445	2.614421			3
3.49	3.51	3.53	3462.408	7.036595			3
3.71	3.74	3.75	28217.78	51.760023			4
3.76	3.79	3.80	4229.591	9.485434			5
+ 3.96	3.96	4.00	1018.776	2.84944			6
3.96	3.98	4.00	16796.15	46.97757			6
Height Summation:			**59921.295**				
Amount Avg CF:			**21.985089**	Linear:			
Aroclor-1221					**3**	**24.11**	
3.06	3.07	3.10	1729.534	8.435237			1
3.11	3.12	3.15	1288.69	7.270185			2
3.16	3.19	3.20	2939.156	5.132653			3
Height Summation:			**5957.38**				
Amount Avg CF:			**6.946025**	Linear:			
Aroclor-1232					**6**	**104.79**	
3.16	3.19	3.20	2939.156	5.72196			1
3.38	3.40	3.42	4276.21	20.688925			2
3.49	3.51	3.53	3462.408	15.26698			3
3.71	3.74	3.75	28217.78	114.696084			4
3.77	3.79	3.81	4229.591	21.928835			5
3.96	3.98	4.00	16796.15	112.651711			6
Height Summation:			**59921.295**				
Amount Avg CF:			**48.492416**	Linear:			
Aroclor-1242					**6**	**97.18**	
3.16	3.19	3.20	2939.156	8.015652			1
3.38	3.40	3.42	4276.21	11.80997			2
3.49	3.51	3.53	3462.408	8.732852			3
3.71	3.74	3.75	28217.78	63.265703			4
3.77	3.79	3.81	4229.591	12.111849			5
3.96	3.98	4.00	16796.15	58.835296			6
Height Summation:			**59921.295**				
Amount Avg CF:			**27.128554**	Linear:			
Aroclor-1248					**6**	**172.74**	
3.76	3.79	3.80	4229.591	17.470723			1
3.83	3.86	3.87	42034.91	95.474341			2
+ 3.96	3.96	4.00	1018.776	1.964831			3
3.96	3.98	4.00	16796.15	32.393373			3
4.05	4.07	4.09	27027.9	62.705322			4
4.23	4.23	4.27	200782	393.22432			5
+ 4.23	4.25	4.27	44113.41	86.394526			5
4.61	4.63	4.65	645610.9	1724.845276			6
Height Summation:			**936481.451**				
Amount Avg CF:			**387.685559**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.013.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 94% (61-152) Conc.: 26.45174
%SSR(DCB) : 98% (48-164) Conc.: 27.63205

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**138.11**	
2.88	2.91	2.92	803649.4	340.706966			1
3.21	3.23	3.25	43900.2	14.976535			2
+ 3.21	3.24	3.25	18468.75	6.300606			2
+ 3.40	3.40	3.44	91914.99	31.206022			3
3.40	3.43	3.44	159537.3	54.164446			3
3.47	3.49	3.51	47568.08	13.656255			4
3.63	3.65	3.67	143055.2	48.881535			5
+ 3.72	3.73	3.76	63564.79	25.347134			6
3.72	3.74	3.76	173666	69.251158			6
Height Summation:			**1371376.18**				
Amount Avg CF:			**90.272816**	Linear:			
Aroclor-1221					**3**	**130.02**	
2.77	2.79	2.81	52892.24	42.489524			1
2.83	2.84	2.87	7133.563	9.296149			2
2.88	2.91	2.92	803649.4	252.45782			3
Height Summation:			**863675.203**				
Amount Avg CF:			**101.414497**	Linear:			
Aroclor-1232					**6**	**73.12**	
+ 2.88	2.88	2.92	7441.26	2.582215			1
2.88	2.91	2.92	803649.4	278.87691			1
3.21	3.23	3.25	43900.2	31.52037			2
+ 3.21	3.24	3.25	18468.75	13.260574			2
+ 3.40	3.40	3.44	91914.99	73.765573			3
3.40	3.43	3.44	159537.3	128.035267			3
3.47	3.49	3.51	47568.08	31.072849			4
+ 3.66	3.68	3.70	44428.84	106.270933			5
3.66	3.70	3.70	113415.1	271.281639			5
+ 3.73	3.73	3.77	63564.79	57.992691			6
3.73	3.74	3.77	173666	158.442414			6
Height Summation:			**1341736.08**				
Amount Avg CF:			**149.871575**	Linear:			
Aroclor-1242					**6**	**132.95**	
+ 2.88	2.88	2.92	7441.26	3.668995			1
2.88	2.91	2.92	803649.4	396.248127			1
3.21	3.23	3.25	43900.2	18.12441			2
+ 3.21	3.24	3.25	18468.75	7.624913			2
+ 3.40	3.40	3.44	91914.99	38.588851			3
3.40	3.43	3.44	159537.3	66.978858			3
3.47	3.49	3.51	47568.08	17.47345			4
3.64	3.65	3.68	143055.2	63.823958			5
+ 3.73	3.73	3.77	63564.79	31.660783			6
3.73	3.74	3.77	173666	86.500743			6
Height Summation:			**1371376.18**				
Amount Avg CF:			**108.191591**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998238** ACF DF5 42A03 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.013.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	104.85	
4.21	4.23	4.25	200782	333.513622			1
4.55	4.57	4.59	65960.77	109.023598			2
+ 4.55	4.59	4.59	61899.92	102.311602			2
4.61	4.63	4.65	645610.9	528.348696			3
4.73	4.76	4.77	1061884	2895.199784			4
4.83	4.85	4.87	456096.8	564.820034			5
5.14	5.16	5.18	2054863	2477.243202			6
Height Summation:			**4485197.47**				
Amount Avg CF:			**1151.358156**	Linear:			
Aroclor-1260					6	13.82	
4.73	4.76	4.77	1061884	1214.658117			1
5.03	5.05	5.07	863619.1	1787.871184			2
+ 5.20	5.20	5.24	11475.3	20.288684			3
5.20	5.23	5.24	733574.4	1296.98215			3
5.37	5.39	5.41	935179.4	1449.101099			4
5.61	5.63	5.65	2441639	1560.755023			5
5.82	5.84	5.86	1321898	1504.175125			6
Height Summation:			**7357793.9**				
Amount Avg CF:			**1468.923783**	Linear:			
Aroclor-1262					6	45.69	
5.21	5.23	5.24	733574.4	704.431308			1
E 5.37	5.39	5.41	935179.4	1111.615939			2
E 5.61	5.63	5.65	2441639	1200.794196			3
E 5.81	5.84	5.85	1321898	1176.352035			4
5.87	5.88	5.91	102053.4	183.326283			5
+ 5.87	5.89	5.91	86554.88	155.485113			5
6.25	6.27	6.29	524089.4	773.855386			6
Height Summation:			**6058433.6**				
Amount Avg CF:			**858.395858**	Linear:			
Aroclor-1268					6	127.94	
5.81	5.84	5.85	1321898	529.012535			1
5.87	5.88	5.91	102053.4	46.8083			2
+ 5.87	5.89	5.91	86554.88	39.699675			2
6.00	6.02	6.04	23828.75	11.721021			3
6.07	6.09	6.11	39358.51	84.44491			4
6.25	6.27	6.29	524089.4	624.1195			5
6.45	6.47	6.49	110200.5	16.769534			6
Height Summation:			**2121428.56**				
Amount Avg CF:			**218.812633**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.013.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	136.39	
+ 3.40	3.40	3.44	91914.99	79.122675			1
3.40	3.43	3.44	159537.3	137.333617			1
3.51	3.53	3.55	289360.8	88.316502			2
3.63	3.65	3.67	143055.2	34.94749			3
+ 3.72	3.73	3.76	63564.79	21.50566			4
3.72	3.74	3.76	173666	58.755829			4
3.86	3.88	3.90	1816214	324.416172			5
+ 4.22	4.22	4.26	575093.5	232.335347			6
4.22	4.24	4.26	2522942	1019.25792			6
+ 4.22	4.25	4.26	1539490	621.947462			6
Height Summation:			**5104775.3**				
Amount Avg CF:			**277.171255**	Linear:			
Aroclor-1254					6	105.96	
4.16	4.18	4.19	1141688	261.79912			1
+ 4.22	4.22	4.26	575093.5	74.322363			2
4.22	4.24	4.26	2522942	326.053088			2
+ 4.22	4.25	4.26	1539490	198.956404			2
4.31	4.33	4.35	7750454	2153.181216			3
4.38	4.40	4.42	2488870	478.478714			4
4.44	4.46	4.48	10381800	3465.84987			5
4.60	4.62	4.64	2495386	683.804149			6
Height Summation:			**26781140**				
Amount Avg CF:			**1228.194359**	Linear:			
Aroclor-1260					6	8.17	
4.31	4.33	4.35	7750454	1315.96563			1
4.44	4.46	4.48	10381800	1494.786271			2
4.55	4.57	4.59	7013095	1255.029111			3
4.90	4.92	4.94	5599096	1303.521005			4
5.09	5.11	5.13	14985330	1537.296332			5
5.35	5.37	5.39	8946173	1371.925508			6
Height Summation:			**54675948**				
Amount Avg CF:			**1379.753976**	Linear:			
Aroclor-1262					6	33.32	
4.71	4.73	4.75	4380347	647.861366			1
4.90	4.92	4.94	5599096	832.489295			2
E 5.09	5.11	5.13	14985330	1171.37353			3
5.31	5.33	5.35	2182401	411.693374			4
E 5.35	5.37	5.39	8946173	1048.474965			5
5.73	5.75	5.77	3705711	802.493577			6
Height Summation:			**39799058**				
Amount Avg CF:			**819.064351**	Linear:			
Aroclor-1268					6	125.07	
5.31	5.33	5.35	2182401	126.410017			1
5.35	5.37	5.39	8946173	511.808005			2
5.51	5.52	5.55	198443	13.21463			3
5.57	5.59	5.61	103709.4	28.5643			4
5.73	5.75	5.77	3705711	629.824752			5
5.93	5.95	5.97	759342.4	16.981122			6
Height Summation:			**15895779.8**				
Amount Avg CF:			**221.133805**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			244.487	47.4592		** 121.66	4	40	
Aroclor-1221			244.487	73.3461		** 174.36	3	5	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998238** ACF DF5 42A03 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.013.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 16:03:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.013.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1232			244.487	58.9645		** 102.22	4	10	
Aroclor-1242			244.487	58.9645		** 119.81	4	30	
Aroclor-1248			244.487	47.4592		33.24	4	40	
Aroclor-1254			244.487	63.279		6.46	4	40	
Aroclor-1260			244.487	56.0882		6.26	4	40	
Aroclor-1262			244.487	47.4592	E	4.69	4	40	
Aroclor-1268			244.487	47.4592		1.06	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998238ACF DF5 AC42A03 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:03:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.013.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		3394	3553
2.102		5044	5554
2.131		15391	9408
2.198		19184	12076
2.311		15567	10460
2.385		3248	4715
2.425		2076	2569
2.556		1347	2764
2.627		6009	3852
2.649		11438	6862
2.727		1161	1764
2.776		10650	8003
2.828		1804	1909
2.925	TCX	652180	430628
2.987		1117	861
3.014		1104	721
3.038		9286	5714
3.075		1730	1595
3.124		1289	712
3.156		760	624
3.192		2939	3201
3.231		17466	8996
3.244		113978	64560
3.314		1312	1147
3.397		4276	3056
3.467		1127	705
3.492		1286	736
3.515		3462	2009
3.588		6340	5264
3.641		1010	1368
3.667		5567	3327
3.7		15506	14221
3.735		28218	22476
3.787		4230	3772
3.822		1962	1867
3.856		42035	30162
3.883		26270	17583
3.905		67035	43964
3.956		1019	614
3.98		16796	11774
4.003		4700	3124
4.035		10733	7389
4.069		27028	29467
4.111		16101	12259
4.138		9734	8088
4.19		10261	7215
4.228		200782	157385
4.248		44113	24343
4.273		100177	80036
4.339		90602	75558
4.382		346788	355365
4.416		166012	142661
4.456		21950	15831
4.479		18346	12947

RT A	Compound A	Height A	Area A
4.52		135518	132563
4.573		65961	47719
4.589		61900	33239
4.604		37943	21542
4.635		645611	557991
4.68		435239	489402
4.717		128671	92152
4.757		1061884	975959
4.807		48461	46743
4.848		456097	439362
4.878		13165	7417
4.904		222173	211326
4.956		1486939	1839673
5.006		214297	199679
5.049		863619	879120
5.092		42741	31179
5.128		141797	172595
5.165		2054863	2078591
5.204		11475	3831
5.227		733574	666548
5.27		498643	500940
5.321		4426	4050
5.391		935179	1349282
5.45		432908	383670
5.49		246970	227883
5.53		46756	45113
5.575		316186	292144
5.602		16906	10163
5.631		2441639	2420586
5.729		4919	5756
5.752		1700	1166
5.776		1143	706
5.838		1321898	1340845
5.878		102053	120586
5.89		86555	68760
5.988		1597	1083
6.022		23829	31789
6.085		39359	28348
6.109		203198	186999
6.177		1666	1590
6.266		524089	521229
6.311		34969	34624
6.466		110201	114112
6.61	DCB	373838	345215
6.634		70868	50440
6.687		4893	4674
6.887		3043	4107
7.079		1474	4118
7.791		1269	2851
7.862		697	2288
7.895		841	554
7.929		2940	5327
8.025		110317	180326
8.588		1309	2409
8.681		4082	5263

LANCASTER LABORATORIES

Sample Number: 8998238ACF DF5 AC42A03 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:03:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.013.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		10257	6386
2.053		4926	5995
2.114		15846	13995
2.138		3120	2137
2.157		11178	14298
2.242		20020	25922
2.311		8789	4216
2.365		86492	68128
2.393		2940	1709
2.415		4294	3654
2.446		5016	4766
2.494		13569	10820
2.531		4756	5993
2.547		36641	29968
2.593		5689	3720
2.616	TCX	3814526	2246788
2.704		6683	7364
2.734		3789	2989
2.785		52892	29095
2.838		7134	9233
2.878		7441	5409
2.912		803649	653981
2.949		5727	8359
3.001		7511	11430
3.034		17825	11012
3.086		3685	2411
3.107		19991	28861
3.182		16773	13071
3.203		5892	2705
3.226		43900	26335
3.244		18469	9976
3.266		49200	34666
3.325		73259	63990
3.353		4184	2144
3.385		52496	41137
3.405		91915	49029
3.435		159537	91847
3.492		47568	44242
3.527		289361	175396
3.551		291346	157058
3.568		496689	274846
3.654		143055	94372
3.676		44429	24483
3.698		113415	97467
3.726		63565	30373
3.742		173666	103975
3.78		82249	61951
3.824		74412	73893
3.854		101102	56019
3.875		1816214	1166104
3.9		353843	202494
3.92		353070	192660
3.939		489145	296264
3.974		2713753	1847112

RT B	Compound B	Height B	Area B
4.006		1135440	742163
4.024		205368	96884
4.044		132527	86818
4.085		153569	134932
4.118		724608	608208
4.14		70676	65680
4.175		1141688	824371
4.217		575094	624351
4.236		2522942	1358468
4.249		1539490	705084
4.276		1213229	1183948
4.327		7750454	5965912
4.365		409253	358199
4.397		2488870	1693710
4.421		1883428	1330206
4.464		10381800	7867772
4.519		8620	4662
4.568		7013095	6650856
4.617		2495386	2181437
4.658		2228479	1859633
4.695		12155570	10002010
4.727		4380347	3021293
4.765		3393493	2641461
4.839		56355	55536
4.865		792526	528588
4.882		209798	104950
4.917		5599096	4356883
4.94		1518077	1019527
4.99		3318222	2854896
5.026		1603970	1310999
5.056		1140876	898591
5.088		546387	324313
5.11		14985330	12225900
5.151		326719	234561
5.183		438328	381317
5.225		7410	5497
5.247		18359	12665
5.302		129864	82553
5.326		2182401	1817443
5.369		8946173	9022280
5.442		19825	15803
5.474		6118	6441
5.525		198443	169535
5.57		312591	247510
5.594		103709	72073
5.614		12614	6255
5.643		1596002	1317796
5.687		11995	10075
5.72		9452	5627
5.749		3705711	2979023
5.781		215617	163497
5.85		7649	18773
5.949		759342	646930
6.107	DCB	2808120	2432183
6.244		3047	3054
6.281		16705	12913
6.309		652493	565081
6.45		5031	8577
6.482		2962	2739
6.526		22903	42477
6.58		11984	21499
6.601		1934	1013
6.617		4498	3705
6.728		8449	13300
6.789		12003	13447
7.011		5847	6029

RT B	Compound B	Height B	Area B
7.061		1499	1242
7.12		3682	4149
7.195		1963	4271
7.236		1309	825
7.261		3045	2542
7.461		23100	41703
7.553		591604	789202
7.708		1997	1621
7.847		5752	11438
7.977		7691	13570
8.041		3607	3714
8.113		4166	9152
8.212		17602	32071
8.424		6444	11552
8.571		3108	3971
8.617		8591	14125

8998238ACF DF5 AC42A03 T 171380028A 10225 SW-846 8082

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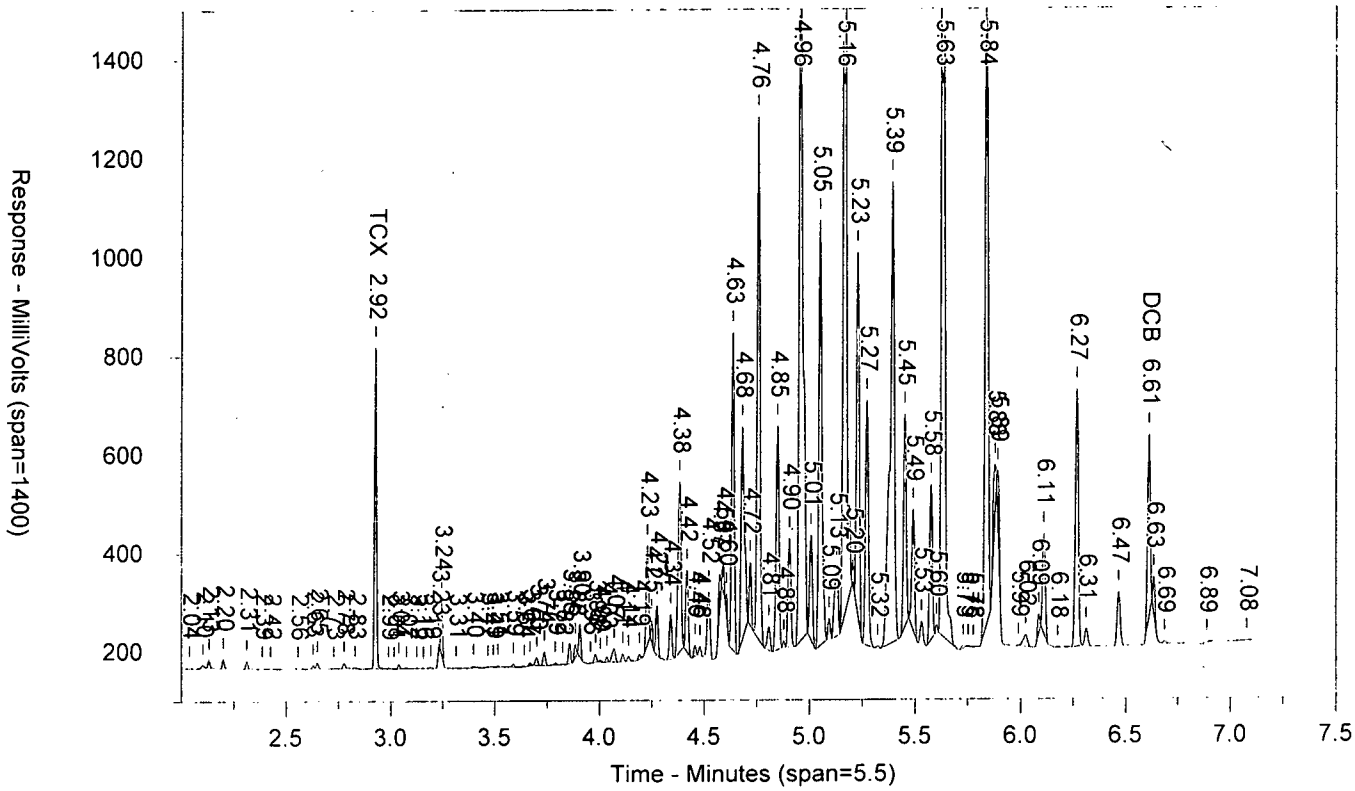

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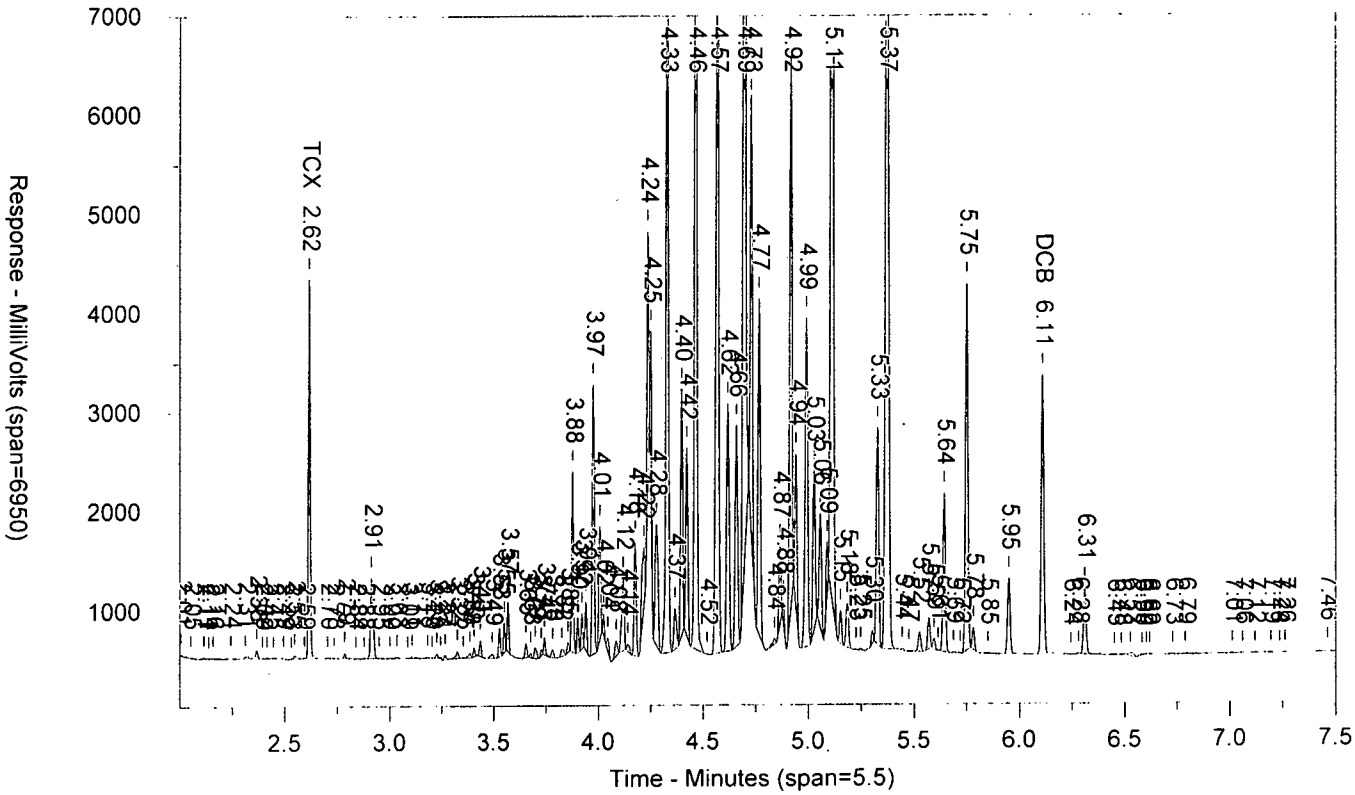


LANCASTER LABORATORIES

Sample Number: 8998238ACF DF5 AC42A03 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:03:46 PM Sample Weight: 10.43
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

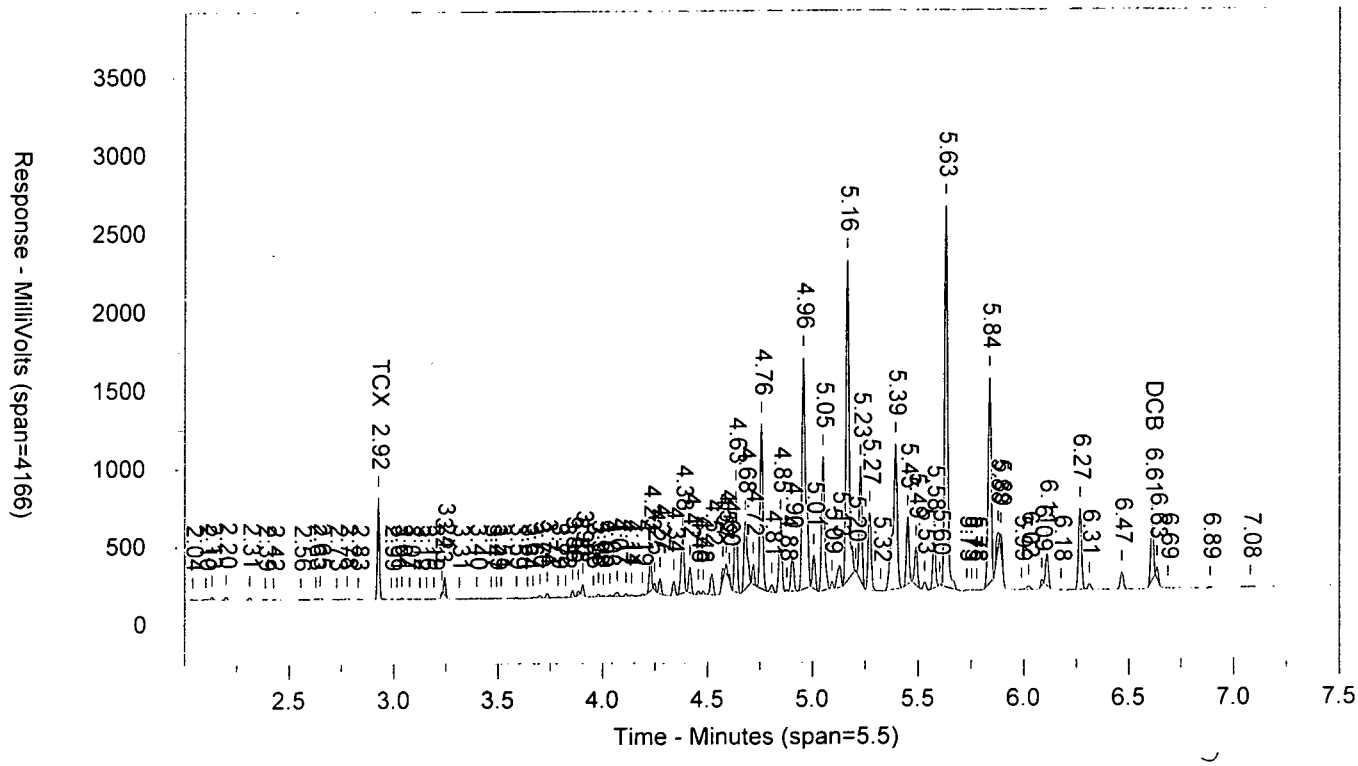
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	652180	27.512	TCX	2.616	3814526	26.452	TCX
6.61	373838	26.042	DCB	6.107	2808120	27.632	DCB

Files:
Area File: 20pcbs17137004.013.RAW
Area File: 20pcbs17137004B.013.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:12:31 PM
File Reported On: 5/21/2017 at 4:12:39 PM

8998238ACF DF5 AC42A03 T 171380028A 10225 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137004.013.RAW



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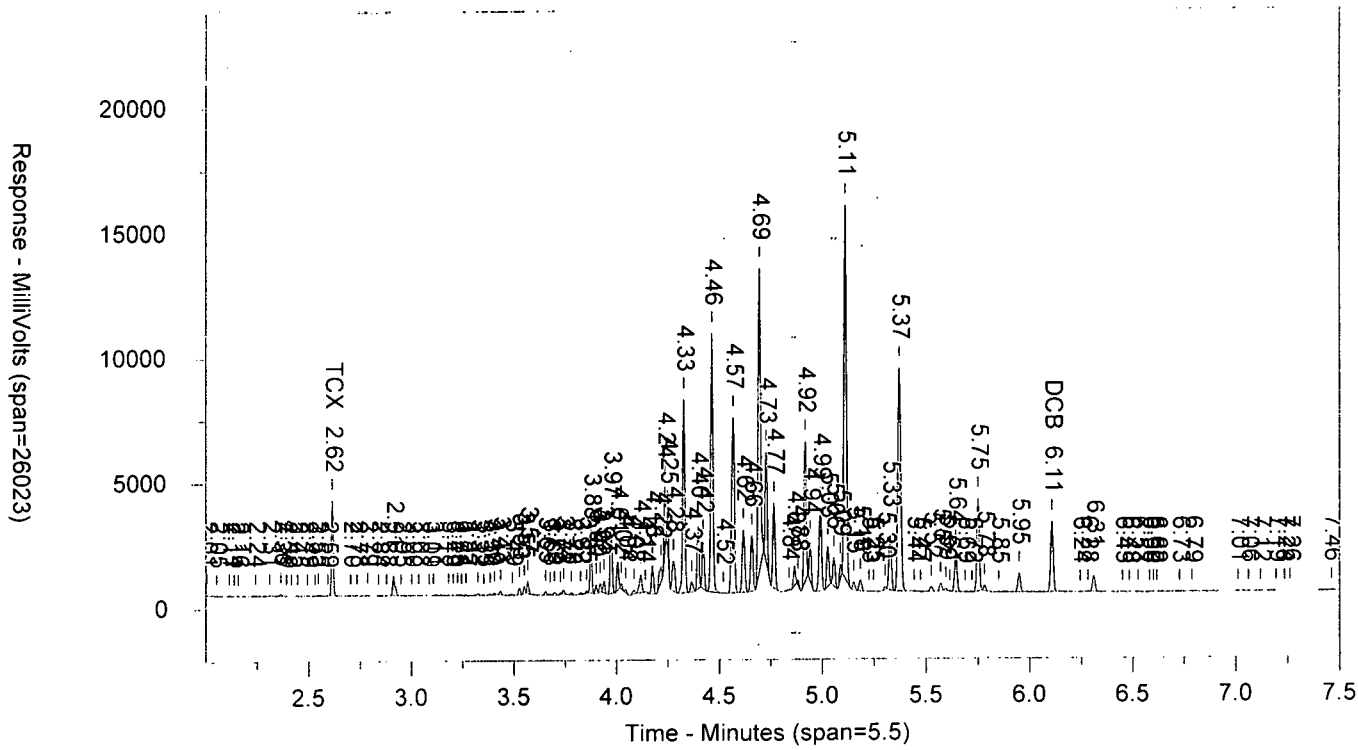

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Data Summary

Sample Name: 8998239 RI ACF 42A04 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 16:15:16
Instrument	17342A
Result file	20PCBS17137004.014.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 102% (61 - 152) Conc: 29.56277
%SSR(DCB) 104% (48 - 164) Conc: 30.21682

Analysis Report (B)

Injected on	May 21, 2017 16:15:16
Instrument	17342B
Result file	20PCBS17137004B.014.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 99% (61 - 152) Conc: 28.71755
%SSR(DCB) 100% (48 - 164) Conc: 28.94093

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3396483	29.56277
Decachlorobiphenyl	6.58	6.61	6.64	2102286	30.21682

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20071070	28.71755
Decachlorobiphenyl	6.08	6.11	6.14	14254490	28.94093

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	29.56277				2.90	
☑ Decachlorobiphenyl	A	30.21682				4.31	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**19.87**	
4.73	4.76	4.77	752439.6	177.587246			1
5.03	5.05	5.07	625761.9	267.292179			2
5.20	5.23	5.24	504737.5	184.127456			3
5.37	5.39	5.41	473459.5	151.37346			4
5.61	5.63	5.65	1633944	215.503141			5
5.82	5.84	5.86	879569.1	206.506425			6

Height summation: **4869911.6**
Concentration CF: **200.398318** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.89**	
4.31	4.33	4.35	5264261	184.424224			1
4.44	4.46	4.48	6980394	207.371719			2
4.55	4.57	4.59	4843212	178.830136			3
4.90	4.92	4.94	3780477	181.597501			4
5.09	5.11	5.13	9976321	211.166413			5
5.35	5.37	5.39	6935366	219.445041			6

Height summation: **37780031**
Concentration CF: **197.139172** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<50.4451	<9.7923			4	
☑ PCB-1221			<50.4451	<15.1335			3	
☑ PCB-1232			<50.4451	<12.1662			4	
☑ PCB-1242			<50.4451	<12.1662			4	
☑ PCB-1248			<50.4451	<9.7923			4	
☑ PCB-1254			<50.4451	<13.0564			4	
☑ PCB-1260	A	200.398318	50.4451	11.5727		1.64	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998239** RI ACF 42A04 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.014.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 102% (61-152) Conc.: 29.56277
%SSR(DCB) : 104% (48-164) Conc.: 30.21682

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**102.59**	
3.16	3.18	3.20	3432.753	1.654782			1
3.37	3.40	3.41	3737.863	1.764601			2
3.49	3.51	3.53	2738.386	1.148265			3
3.71	3.73	3.75	10682	4.042847			4
3.76	3.79	3.80	6414.948	2.96835			5
3.96	3.98	4.00	20336.38	11.735933			6
Height Summation:			**47342.33**				
Amount Avg CF:			**3.885796**	Linear:			
Aroclor-1221					**3**	**83.44**	
3.06	3.08	3.10	1734.803	1.745748			1
3.11	3.12	3.15	4814.54	5.604217			2
3.16	3.18	3.20	3432.753	1.236873			3
Height Summation:			**9982.096**				
Amount Avg CF:			**2.862279**	Linear:			
Aroclor-1232					**6**	**116.15**	
3.16	3.18	3.20	3432.753	1.378885			1
3.38	3.40	3.42	3737.863	3.731345			2
3.49	3.51	3.53	2738.386	2.491338			3
3.71	3.73	3.75	10682	8.958627			4
3.77	3.79	3.81	6414.948	6.86236			5
3.96	3.98	4.00	20336.38	28.142641			6
Height Summation:			**47342.33**				
Amount Avg CF:			**8.594199**	Linear:			
Aroclor-1242					**6**	**104.06**	
3.16	3.18	3.20	3432.753	1.931621			1
3.38	3.40	3.42	3737.863	2.129984			2
3.49	3.51	3.53	2738.386	1.425068			3
3.71	3.73	3.75	10682	4.941528			4
3.77	3.79	3.81	6414.948	3.790254			5
3.96	3.98	4.00	20336.38	14.698229			6
Height Summation:			**47342.33**				
Amount Avg CF:			**4.819447**	Linear:			
Aroclor-1248					**6**	**167.35**	
3.76	3.79	3.80	6414.948	5.467248			1
3.83	3.86	3.87	37597.19	17.619561			2
3.96	3.98	4.00	20336.38	8.09251			3
4.05	4.07	4.09	17485.17	8.369993			4
4.23	4.23	4.27	179493.2	72.531514			5
+ 4.23	4.25	4.27	34908.48	14.106188			5
4.61	4.63	4.65	526005.6	289.956471			6
Height Summation:			**787332.488**				
Amount Avg CF:			**67.006216**	Linear:			
Aroclor-1254					**6**	**93.04**	
4.21	4.23	4.25	179493.2	61.51768			1
4.55	4.57	4.59	146189.7	49.855689			2
4.61	4.63	4.65	526005.6	88.818473			3
4.73	4.76	4.77	752439.6	423.288289			4
4.83	4.85	4.87	353707.4	90.377508			5
5.14	5.16	5.18	1436789	357.389605			6
Height Summation:			**3394624.5**				
Amount Avg CF:			**178.541207**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.014.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 99% (61-152) Conc.: 28.71755
%SSR(DCB) : 100% (48-164) Conc.: 28.94093

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**54.93**	
2.88	2.91	2.92	115819.7	10.131179			1
+ 3.21	3.23	3.25	16863.87	1.18704			2
3.21	3.24	3.25	162186.2	11.416209			2
+ 3.40	3.41	3.44	23538.16	1.648875			3
+ 3.40	3.42	3.44	14069.54	0.985587			3
3.40	3.43	3.44	33809.67	2.368406			3
3.47	3.49	3.51	42909.36	2.54174			4
3.63	3.65	3.67	161454.9	11.382969			5
+ 3.72	3.73	3.76	58867.87	4.843438			6
3.72	3.74	3.76	98493.51	8.103693			6
Height Summation:			**614673.34**				
Amount Avg CF:			**7.657366**	Linear:			
Aroclor-1221					**3**	**34.33**	
2.77	2.79	2.81	22344.86	3.703656			1
2.83	2.85	2.87	20204.62	5.432633			2
2.88	2.91	2.92	115819.7	7.507024			3
Height Summation:			**158369.18**				
Amount Avg CF:			**5.547771**	Linear:			
Aroclor-1232					**6**	**59.66**	
2.88	2.91	2.92	115819.7	8.292615			1
+ 3.21	3.23	3.25	16863.87	2.498304			2
3.21	3.24	3.25	162186.2	24.027128			2
+ 3.40	3.41	3.44	23538.16	3.897652			3
+ 3.40	3.42	3.44	14069.54	2.329756			3
3.40	3.43	3.44	33809.67	5.598497			3
3.47	3.49	3.51	42909.36	5.783365			4
3.66	3.68	3.70	43122.88	21.282391			5
+ 3.73	3.73	3.77	58867.87	11.081489			6
3.73	3.74	3.77	98493.51	18.540755			6
Height Summation:			**496341.32**				
Amount Avg CF:			**13.920792**	Linear:			
Aroclor-1242					**6**	**54.96**	
2.88	2.91	2.92	115819.7	11.782737			1
+ 3.21	3.23	3.25	16863.87	1.43654			2
3.21	3.24	3.25	162186.2	13.815748			2
+ 3.40	3.41	3.44	23538.16	2.038972			3
+ 3.40	3.42	3.44	14069.54	1.218761			3
3.40	3.43	3.44	33809.67	2.928732			3
3.47	3.49	3.51	42909.36	3.252207			4
3.64	3.65	3.68	161454.9	14.862589			5
+ 3.73	3.73	3.77	58867.87	6.049876			6
3.73	3.74	3.77	98493.51	10.122221			6
Height Summation:			**614673.34**				
Amount Avg CF:			**9.460706**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998239** RI ACF 42A04 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.014.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	19.87	
4.73	4.76	4.77	752439.6	177.587246			1
5.03	5.06	5.07	625761.9	267.292179			2
5.20	5.23	5.24	504737.5	184.127456			3
+ 5.37	5.38	5.41	53601.15	17.137245			4
5.37	5.39	5.41	473459.5	151.37346			4
5.61	5.63	5.65	1633944	215.503141			5
5.82	5.84	5.86	879569.1	208.506425			6
Height Summation:			**4869911.6**				
Amount Avg CF:			**200.398318**	Linear:			
Aroclor-1262					6	45.80	
5.21	5.23	5.24	504737.5	100.005343			1
+ 5.37	5.38	5.41	53601.15	13.146105			2
5.37	5.39	5.41	473459.5	116.119676			2
5.61	5.63	5.65	1633944	165.801114			3
5.81	5.84	5.85	879569.1	161.499981			4
5.87	5.88	5.91	64416.31	23.875707			5
+ 5.87	5.89	5.91	56134.3	20.806006			5
6.25	6.27	6.29	354603.2	108.033944			6
Height Summation:			**3910729.61**				
Amount Avg CF:			**112.555961**	Linear:			
Aroclor-1268					6	119.38	
5.81	5.84	5.85	879569.1	72.627506			1
5.87	5.88	5.91	64416.31	6.096132			2
+ 5.87	5.89	5.91	56134.3	5.312352			2
6.00	6.02	6.04	43838.5	4.449211			3
6.07	6.09	6.11	38683.83	17.124876			4
6.25	6.27	6.29	354603.2	87.130092			5
6.45	6.46	6.49	96636.41	3.03418			6
Height Summation:			**1477747.35**				
Amount Avg CF:			**31.743666**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.014.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	170.10	
+ 3.40	3.41	3.44	23538.16	4.180712			1
+ 3.40	3.42	3.44	14069.54	2.498951			1
3.40	3.43	3.44	33809.67	6.005079			1
3.51	3.53	3.55	278160.1	17.517017			2
3.63	3.65	3.67	161454.9	8.138169			3
+ 3.72	3.73	3.76	58867.87	4.109393			4
3.72	3.74	3.76	98493.51	6.875542			4
3.86	3.88	3.90	1599453	58.94814			5
4.22	4.24	4.26	3233760	269.555229			6
Height Summation:			**5405131.18**				
Amount Avg CF:			**61.173196**	Linear:			
Aroclor-1254					6	92.08	
4.16	4.18	4.19	1113778	52.696592			1
4.22	4.24	4.26	3233760	86.228729			2
4.31	4.33	4.35	5264261	301.754671			3
4.38	4.40	4.42	2059907	81.70924			4
4.44	4.46	4.48	6980394	480.817397			5
4.60	4.62	4.64	1892893	107.024501			6
Height Summation:			**20544993**				
Amount Avg CF:			**185.038522**	Linear:			
Aroclor-1260					6	8.89	
4.31	4.33	4.35	5264261	184.424224			1
4.44	4.46	4.48	6980394	207.371719			2
4.55	4.57	4.59	4843212	178.830136			3
4.90	4.92	4.94	3780477	181.597501			4
5.09	5.11	5.13	9976321	211.166413			5
5.35	5.37	5.39	6935366	219.445041			6
Height Summation:			**37780031**				
Amount Avg CF:			**197.139172**	Linear:			
Aroclor-1262					6	34.45	
4.71	4.73	4.75	2732431	83.384613			1
4.90	4.92	4.94	3780477	115.976632			2
5.09	5.11	5.13	9976321	160.90245			3
5.31	5.33	5.35	1712426	66.652169			4
5.35	5.37	5.39	6935366	167.707817			5
5.73	5.75	5.77	2479485	110.788492			6
Height Summation:			**27616506**				
Amount Avg CF:			**117.568696**	Linear:			
Aroclor-1268					6	109.24	
5.31	5.33	5.35	1712426	20.465478			1
5.35	5.37	5.39	6935366	81.865763			2
5.51	5.53	5.55	308150.4	4.233944			3
5.57	5.59	5.61	271359.6	15.421045			4
5.73	5.75	5.77	2479485	86.950646			5
5.93	5.95	5.97	674914	3.114156			6
Height Summation:			**12381701**				
Amount Avg CF:			**35.341839**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.4451	9.7923		** 65.35	4	40	
Aroclor-1221			50.4451	15.1335		** 63.86	3	5	
Aroclor-1232			50.4451	12.1662		** 47.32	4	10	
Aroclor-1242			50.4451	12.1662		** 65.00	4	30	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998239** RI ACF 42A04 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.11 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342A
Result file : 20PCBS17137004.014.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 16:15:16
Instrument : CP20--17342B
Result file : 20PCBS17137004B.014.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1248			50.4451	9.7923		9.10	4	40	
Aroclor-1254			50.4451	13.0564		3.57	4	40	
Aroclor-1260			50.4451	11.5727		1.64	4	40	
Aroclor-1262			50.4451	9.7923		4.36	4	40	
Aroclor-1268			50.4451	9.7923		10.73	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998239 RI ACF AB42A04 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:15:16 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.014.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.007		4625	2391
2.038		3903	3789
2.105		6259	7938
2.131		224298	151688
2.199		24821	16467
2.22		9220	6577
2.311		50472	32528
2.389		45183	32403
2.424		1664	1145
2.541		893	423
2.569		3676	2684
2.626		2151	1598
2.649		20710	13899
2.699		1732	1300
2.733		5970	7909
2.83		4430	3701
2.856		730	432
2.874		1625	1379
2.925	TCX	3396483	2209368
3.04		3994	2624
3.078		1735	2332
3.108		3699	2041
3.125		4815	2706
3.183		3433	4235
3.23		43298	23190
3.244		26540	12744
3.317		846	547
3.334		1309	750
3.397		3738	2689
3.454		903	583
3.469		2155	1181
3.488		2281	1487
3.514		2738	1858
3.558		823	495
3.588		23782	16905
3.657		13868	9780
3.696		7194	8552
3.733		10682	8909
3.79		6415	6093
3.856		37597	27698
3.886		9726	9103
3.904		8383	4466
3.979		20336	13641
4.002		2533	1718
4.034		5309	3630
4.069		17485	19582
4.112		6037	4732
4.138		3306	2088
4.19		7352	4868
4.228		179493	134008
4.249		34908	19082
4.273		65324	49287
4.297		2595	1682
4.339		64484	52179

RT A	Compound A	Height A	Area A
4.382		327949	321475
4.416		135921	112808
4.457		9327	7098
4.48		17325	13201
4.521		123394	115806
4.574		146190	160062
4.605		46838	26321
4.635		526006	455857
4.68		273256	309369
4.719		104134	78649
4.757		752440	692727
4.808		34105	33334
4.849		353707	353197
4.879		13443	7795
4.904		153429	146642
4.957		1063498	1306668
5.006		146862	130853
5.05		625762	628468
5.092		38403	27606
5.128		110093	139250
5.165		1436789	1293586
5.188		46769	21314
5.228		504738	444611
5.271		342597	344117
5.323		8854	8220
5.375		53601	45466
5.392		473460	375560
5.451		298694	293336
5.49		172670	159283
5.53		37908	37998
5.575		227522	208586
5.603		16115	9153
5.632		1633944	1655311
5.719		2903	2791
5.746		1698	1460
5.837		879569	929394
5.878		64416	92510
5.891		56134	32823
6.023		43839	52821
6.086		38684	30837
6.109		138796	124282
6.266		354603	368091
6.311		24470	24529
6.465		96636	103422
6.61	DCB	2102286	2197885
6.685		2612	2666
6.858		1068	1232
7.055		2453	5061
7.376		857	1477
7.494		679	618
7.634		575	766
7.722		2215	3392
8.022		6877	11266
8.268		585	1019

LANCASTER LABORATORIES

Sample Number: 8998239 RI ACF AB42A04 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:15:16 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.014.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		7852	5918
2.037		8043	5788
2.054		24008	11747
2.115		335912	203219
2.141		5871	2400
2.158		29880	17500
2.185		16802	10950
2.238		14161	13833
2.268		3821	2194
2.288		5517	4514
2.314		14588	13932
2.365		129985	96300
2.398		13849	10458
2.435		46247	29167
2.461		17983	13307
2.511		4289	2744
2.537		8800	5794
2.57		12026	10742
2.591		21204	12720
2.616	TCX	20071070	11914840
2.677		6392	3513
2.694		8412	11674
2.735		28133	15971
2.757		4828	3301
2.786		22345	12372
2.811		15444	19899
2.845		20205	28619
2.876		9379	5744
2.912		115820	51244
2.922		256134	107955
2.949		19855	9048
2.996		6375	5969
3.018		4920	2727
3.034		5492	3358
3.09		5005	3640
3.106		13560	6060
3.119		9777	4422
3.146		17936	9141
3.182		21360	18188
3.227		16864	9772
3.245		162186	88468
3.265		25079	15123
3.321		135513	96901
3.375		10110	3611
3.385		32926	13382
3.405		23538	11426
3.419		14070	5899
3.434		33810	17867
3.493		42909	34203
3.527		278160	167421
3.551		164593	91296
3.568		102606	50941
3.591		21814	16683
3.654		161455	108817

RT B	Compound B	Height B	Area B
3.676		43123	24695
3.698		62615	47626
3.727		58868	29787
3.742		98494	56051
3.782		39778	35097
3.827		55073	55494
3.854		92818	51905
3.875		1599453	1038096
3.901		290295	162278
3.92		203986	108136
3.939		398936	240118
3.974		2104307	1458042
4.006		924376	588194
4.024		251670	127207
4.084		126317	105702
4.119		676898	551576
4.147		53419	40573
4.176		1113778	819423
4.211		498167	491570
4.236		3233761	3257768
4.275		844544	838488
4.328		5264261	4176502
4.366		288865	251466
4.397		2059907	1430782
4.422		1272672	881964
4.464		6980394	5403305
4.519		19427	15448
4.567		4843213	4721490
4.617		1892893	1606656
4.658		1432740	1266014
4.696		8482899	6984671
4.727		2732431	1813725
4.766		2205876	1724825
4.809		8076	4285
4.84		207660	178780
4.865		537525	339884
4.882		185835	108583
4.917		3780477	2860914
4.94		1190598	838307
4.991		2129612	1894670
5.026		1136192	910004
5.056		780338	667946
5.089		441953	261286
5.111		9976321	8414685
5.152		216567	154120
5.184		439484	371212
5.225		5655	3504
5.249		15607	10100
5.302		87464	54347
5.326		1712426	1402694
5.37		6935366	7156077
5.471		7024	6877
5.526		308150	260005
5.571		207915	154468
5.595		271360	205377
5.644		1137456	953298
5.686		6340	5739
5.723		3310	1935
5.75		2479485	2074956
5.781		151332	109834
5.949		674914	576683
6.043		2629	2940
6.108	DCB	14254490	12472080
6.281		17200	12867
6.309		28910	21896
6.488		4327	6149

RT B	Compound B	Height B	Area B
6.526		6323	7498
6.586		7194	12511
6.784		18288	18681
6.951		1542	895
7.011		4337	4218
7.146		2171	5262
7.304		2679	14735
7.412		5914	15787
7.46		3324	3529
7.553		39481	48836
8.046		2331	1570
8.21		19014	33727
8.426		4281	7454

8998239 RI ACF AB42A04 T 171380028A 10225 SW-846 8082

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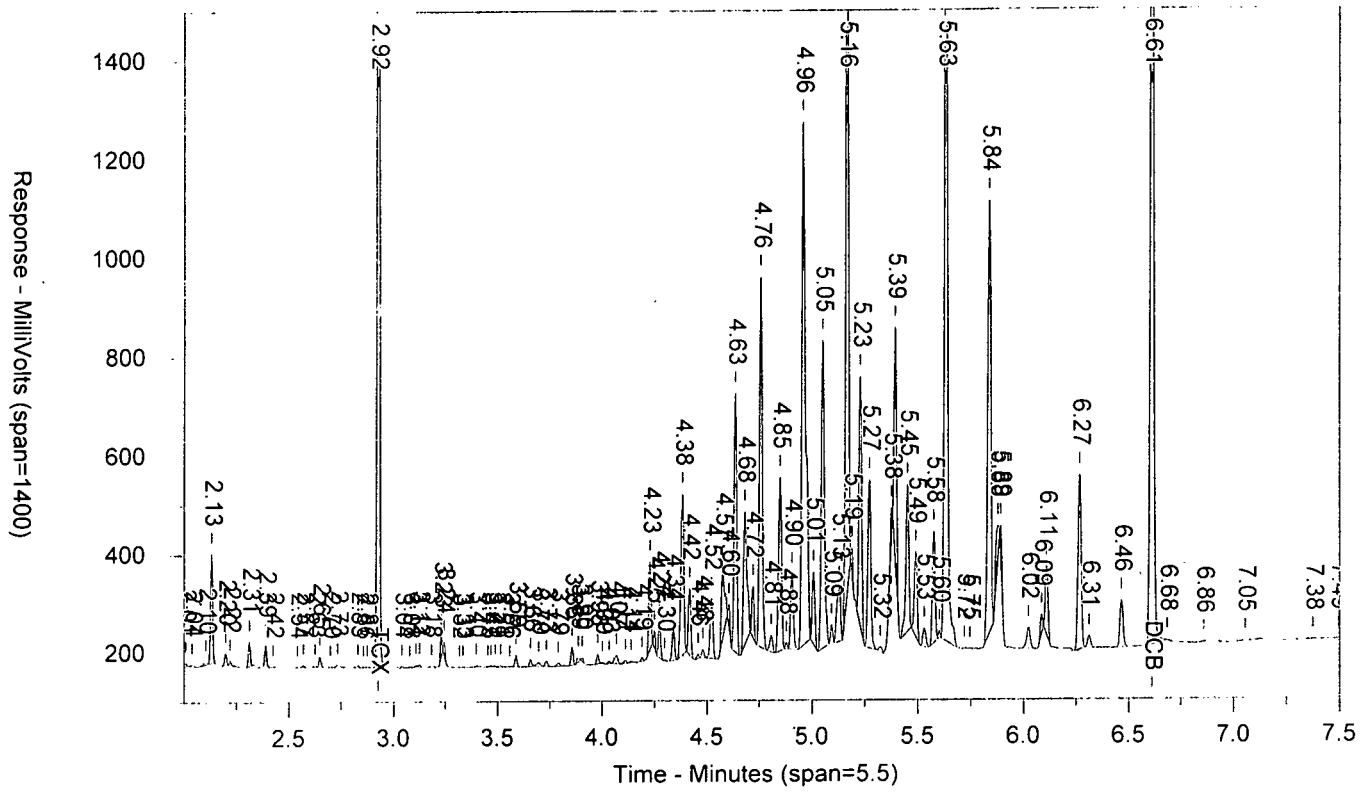

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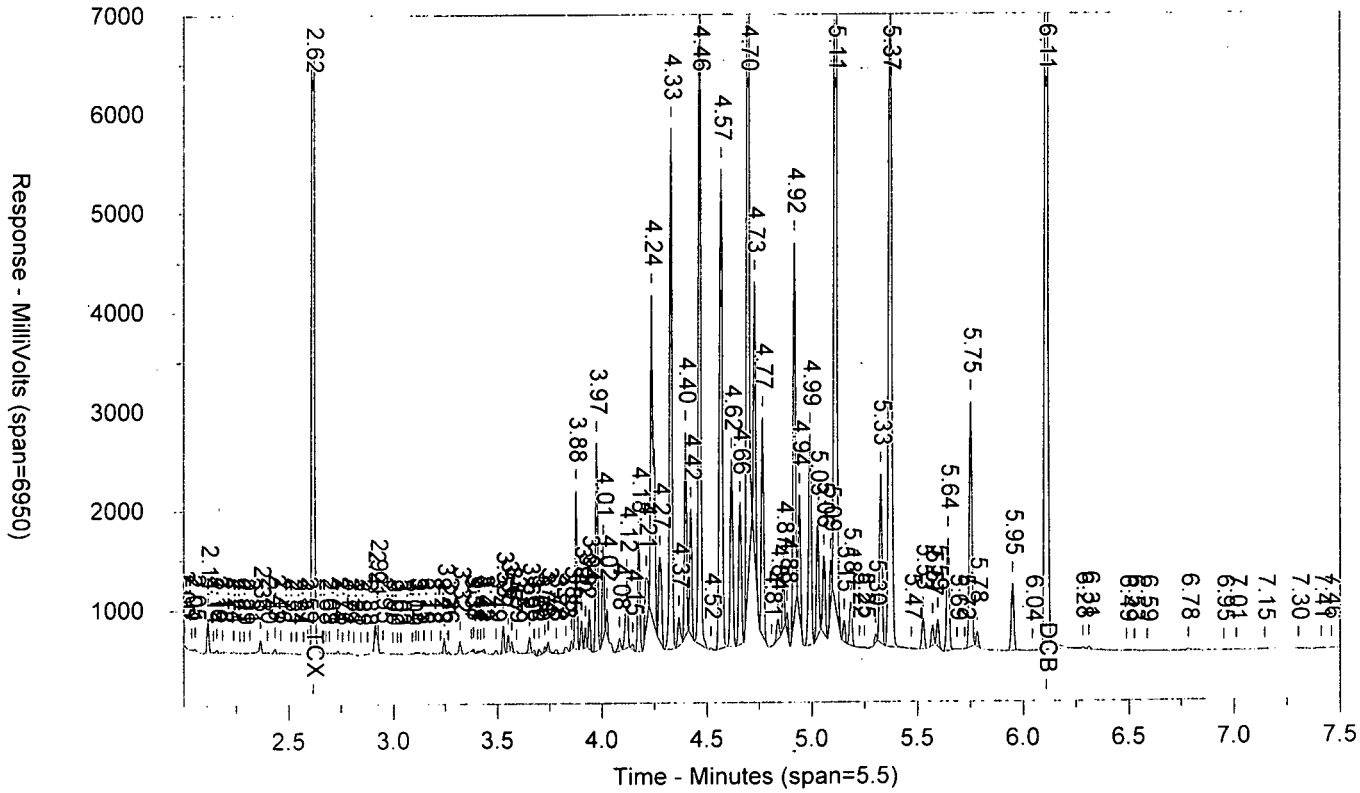

LANCASTER LABORATORIES

Sample Number: 8998239 RI ACF AB42A04 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:15:16 PM Sample Weight: 10.11
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3396483	29.563	TCX	2.616	20071070	28.718	TCX
6.61	2102286	30.217	DCB	6.108	14254490	28.941	DCB

Files:
Area File: 20pcbs17137004.014.RAW
Area File: 20pcbs17137004B.014.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:23:58 PM
File Reported On: 5/21/2017 at 4:24:05 PM

8998239 RI ACF AB42A04 T 171380028A 10225 SW-846 8082

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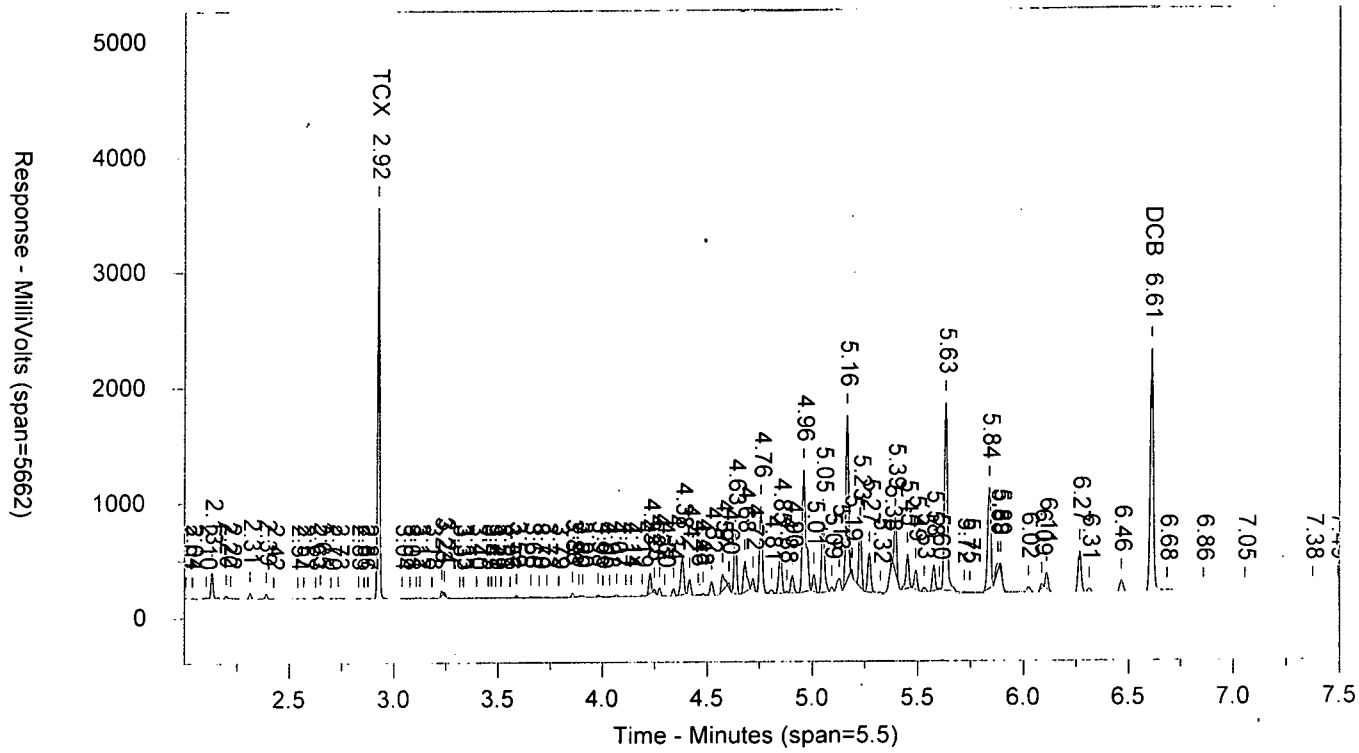

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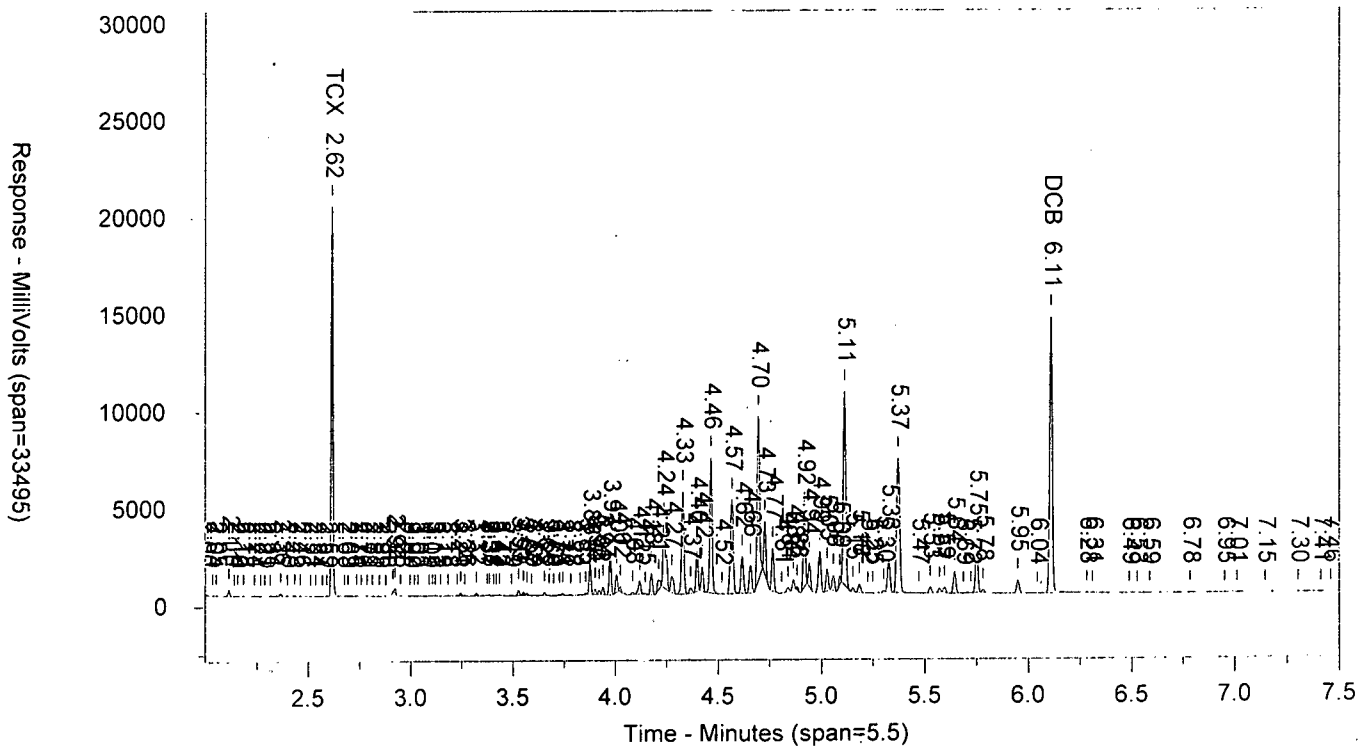

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Data Summary

Sample Name: 8998240 ACF DF5 42A05 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.49 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 16:26:43
Instrument	17342A
Result file	20PCBS17137004.015.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 88% (61 - 152) Conc: 24.56686
%SSR(DCB) 108% (48 - 164) Conc: 30.23495

Analysis Report (B)

Injected on	May 21, 2017 16:26:43
Instrument	17342B
Result file	20PCBS17137004B.015.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 82% (61 - 152) Conc: 22.86587
%SSR(DCB) 96% (48 - 164) Conc: 26.72448

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	585718	24.56686
Decachlorobiphenyl	6.58	6.61	6.64	436522	30.23495

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	3316388	22.86587
Decachlorobiphenyl	6.08	6.11	6.14	2731510	26.72448

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	24.56686				7.17	
☑	Decachlorobiphenyl	A	30.23495				12.33	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**34.46**	
4.73	4.76	4.77	738249	839.631391			1
5.03	5.05	5.07	762928.4	1570.386626			2
5.20	5.23	5.24	433063.5	761.29019			3
5.37	5.39	5.41	421867.5	649.963014			4
5.61	5.63	5.65	1461548	928.913322			5
5.82	5.84	5.86	791542.9	895.537414			6

Height summation: **4609199.3**
Concentration CF: **940.95366** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**11.42**	
4.31	4.33	4.35	5502730	928.975858			1
4.44	4.46	4.48	7274275	1041.369797			2
4.55	4.57	4.59	4713984	838.766356			3
4.90	4.92	4.94	3174768	734.887625			4
5.09	5.11	5.13	8918476	909.684402			5
5.35	5.37	5.39	5779629	881.255865			6

Height summation: **35363862**
Concentration CF: **889.156651** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<243.0887	<47.1878			4	
☑	PCB-1221			<243.0887	<72.9266			3	
☑	PCB-1232			<243.0887	<58.6273			4	
☑	PCB-1242			<243.0887	<58.6273			4	
☑	PCB-1248			<243.0887	<47.1878			4	
☑	PCB-1254			<243.0887	<62.9171			4	
☑	PCB-1260	A	940.95366	243.0887	55.7674		5.66	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998240** ACF DF5 42A05 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.49 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:26:43
Instrument : CP20--17342A
Result file : 20PCBS17137004.015.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 88% (61-152) Conc.: 24.56686
%SSR(DCB) : 108% (48-164) Conc.: 30.23495

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**125.64**	
3.16	3.19	3.20	5985.526	13.904208			1
3.37	3.40	3.41	5097.437	11.596336			2
+ 3.49	3.49	3.53	1112.729	2.248447			3
3.49	3.51	3.53	3766.288	7.610386			3
3.71	3.73	3.75	16954.67	30.922157			4
3.76	3.79	3.80	6928.359	15.448917			5
3.96	3.98	4.00	40388.68	112.31798			6
Height Summation:			**79120.96**				
Amount Avg CF:			**31.966664**	Linear:			
Aroclor-1221					**2**	**37.90**	
3.06	3.08	3.10	1237.216	5.999603			1
3.16	3.19	3.20	5985.526	10.392747			3
Height Summation:			**7222.742**				
Amount Avg CF:			**8.196175**	Linear:			
Aroclor-1232					**6**	**139.72**	
3.16	3.19	3.20	5985.526	11.585995			1
3.38	3.40	3.42	5097.437	24.521079			2
3.49	3.51	3.53	3766.288	16.511907			3
3.71	3.73	3.75	16954.67	68.521034			4
3.77	3.79	3.81	6928.359	35.715472			5
3.96	3.98	4.00	40388.68	269.337316			6
Height Summation:			**79120.96**				
Amount Avg CF:			**71.032134**	Linear:			
Aroclor-1242					**6**	**127.25**	
3.16	3.19	3.20	5985.526	16.230331			1
3.38	3.40	3.42	5097.437	13.997499			2
3.49	3.51	3.53	3766.288	9.444961			3
3.71	3.73	3.75	16954.67	37.79581			4
3.77	3.79	3.81	6928.359	19.726557			5
3.96	3.98	4.00	40388.68	140.668443			6
Height Summation:			**79120.96**				
Amount Avg CF:			**39.643934**	Linear:			
Aroclor-1248					**6**	**158.78**	
3.76	3.79	3.80	6928.359	28.454549			1
3.83	3.86	3.87	73374.76	165.703644			2
3.96	3.98	4.00	40388.68	77.448839			3
4.05	4.07	4.09	32993.92	76.108794			4
4.23	4.23	4.27	268754.1	523.334678			5
+ 4.23	4.25	4.27	64929.78	126.435301			5
4.61	4.63	4.65	732805.6	1946.600763			6
Height Summation:			**1155245.419**				
Amount Avg CF:			**469.608544**	Linear:			
Aroclor-1254					**6**	**72.85**	
4.21	4.23	4.25	268754.1	443.866858			1
4.55	4.57	4.59	248859.6	408.97618			2
4.61	4.63	4.65	732805.6	596.276077			3
4.73	4.76	4.77	738249	2001.30439			4
4.83	4.85	4.87	541155.3	666.321465			5
5.14	5.17	5.18	1508338	1807.978517			6
Height Summation:			**4038161.6**				
Amount Avg CF:			**987.453915**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:26:43
Instrument : CP20--17342B
Result file : 20PCBS17137004B.015.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 82% (61-152) Conc.: 22.86587
%SSR(DCB) : 96% (48-164) Conc.: 26.72448

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**94.78**	
3.21	3.23	3.25	38170.23	12.947277			2
+ 3.21	3.24	3.25	16773.53	5.689553			2
3.40	3.40	3.44	42931.72	14.492362			3
+ 3.40	3.42	3.44	23624.37	7.974824			3
+ 3.40	3.43	3.44	28759.68	9.708339			3
3.47	3.49	3.51	58929.14	16.821121			4
3.63	3.65	3.67	307204.4	104.370421			5
+ 3.72	3.73	3.76	93163.34	36.937382			6
3.72	3.74	3.76	183836.8	72.887576			6
Height Summation:			**631072.29**				
Amount Avg CF:			**44.303752**	Linear:			
Aroclor-1221					**2**	**72.47**	
+ 2.77	2.77	2.81	2139.413	1.708808			1
2.77	2.79	2.81	32552.16	26.000311			1
2.83	2.83	2.87	6468.586	8.381365			2
Height Summation:			**39020.746**				
Amount Avg CF:			**17.190838**	Linear:			
Aroclor-1232					**5**	**98.04**	
3.21	3.23	3.25	38170.23	27.249492			2
+ 3.21	3.24	3.25	16773.53	11.97452			2
3.40	3.40	3.44	42931.72	34.257407			3
+ 3.40	3.42	3.44	23624.37	18.851088			3
+ 3.40	3.43	3.44	28759.68	22.948814			3
3.47	3.49	3.51	58929.14	38.274046			4
+ 3.66	3.68	3.70	60310.89	143.43465			5
3.66	3.70	3.70	107271.8	255.119649			5
+ 3.73	3.73	3.77	93163.34	84.51047			6
3.73	3.74	3.77	183836.8	166.762317			6
Height Summation:			**431139.69**				
Amount Avg CF:			**104.332582**	Linear:			
Aroclor-1242					**5**	**96.71**	
3.21	3.23	3.25	38170.23	15.668628			2
+ 3.21	3.24	3.25	16773.53	6.885424			2
3.40	3.40	3.44	42931.72	17.921015			3
+ 3.40	3.42	3.44	23624.37	9.861536			3
+ 3.40	3.43	3.44	28759.68	12.005171			3
3.47	3.49	3.51	58929.14	21.522958			4
3.64	3.65	3.68	307204.4	136.275046			5
+ 3.73	3.73	3.77	93163.34	46.138015			6
3.73	3.74	3.77	183836.8	91.042947			6
Height Summation:			**631072.29**				
Amount Avg CF:			**56.486119**	Linear:			
Aroclor-1248					**6**	**158.06**	
3.40	3.40	3.44	42931.72	36.745294			1
+ 3.40	3.42	3.44	23624.37	20.220118			1
+ 3.40	3.43	3.44	28759.68	24.615434			1
3.51	3.53	3.55	512748.9	155.602196			2
3.63	3.65	3.67	307204.4	74.618856			3
+ 3.72	3.73	3.76	93163.34	31.339353			4
3.72	3.74	3.76	183836.8	61.841132			4
3.86	3.88	3.90	2412718	428.500034			5
4.22	4.24	4.26	4212478	1692.089358			6
Height Summation:			**7671917.82**				
Amount Avg CF:			**408.232812**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998240** ACF DF5 42A05 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.49 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:26:43
Instrument : CP20--17342A
Result file : 20PCBS17137004.015.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	34.46	
4.73	4.76	4.77	738249	839.631391			1
5.03	5.05	5.07	762928.4	1570.386626			2
+ 5.20	5.20	5.24	13330.41	23.43377			3
5.20	5.23	5.24	433063.5	761.29019			3
+ 5.37	5.38	5.41	58371.54	89.931891			4
5.37	5.39	5.41	421867.5	649.963014			4
5.61	5.63	5.65	1461548	928.913322			5
5.82	5.84	5.86	791542.9	895.537414			6
Height Summation:			**4609199.3**				
Amount Avg CF:			**940.95366**	Linear:			
Aroclor-1262					6	48.41	
5.21	5.23	5.24	433063.5	413.480359			1
+ 5.37	5.38	5.41	58371.54	68.987404			2
5.37	5.39	5.41	421867.5	498.591331			2
5.61	5.63	5.65	1461548	714.675724			3
5.81	5.84	5.85	791542.9	700.362107			4
+ 5.87	5.88	5.91	40999.77	73.22974			5
5.87	5.89	5.91	43473.73	77.648483			5
6.25	6.27	6.29	324928.1	477.035308			6
Height Summation:			**3476423.73**				
Amount Avg CF:			**480.298885**	Linear:			
Aroclor-1268					6	127.06	
5.81	5.84	5.85	791542.9	314.957022			1
+ 5.87	5.88	5.91	40999.77	18.69759			2
5.87	5.89	5.91	43473.73	19.825818			2
6.00	6.02	6.04	17954.5	8.781047			3
6.07	6.09	6.11	29710.21	63.379582			4
6.25	6.27	6.29	324928.1	384.732139			5
6.45	6.47	6.49	72389.77	10.952757			6
Height Summation:			**1279999.21**				
Amount Avg CF:			**133.771394**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:26:43
Instrument : CP20--17342B
Result file : 20PCBS17137004B.015.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	72.71	
4.16	4.18	4.19	1914777	436.563848			1
4.22	4.24	4.26	4212478	541.2869			2
4.31	4.33	4.35	5502730	1519.989065			3
4.38	4.40	4.42	3338767	638.197858			4
4.44	4.46	4.48	7274275	2414.546779			5
4.60	4.62	4.64	2906459	791.893938			6
Height Summation:			**25149486**				
Amount Avg CF:			**1057.079731**	Linear:			
Aroclor-1260					6	11.42	
4.31	4.33	4.35	5502730	928.975858			1
4.44	4.46	4.48	7274275	1041.369797			2
4.55	4.57	4.59	4713984	838.766356			3
4.90	4.92	4.94	3174768	734.887625			4
5.09	5.11	5.13	8918476	909.684402			5
5.35	5.37	5.39	5779629	881.255865			6
Height Summation:			**35363862**				
Amount Avg CF:			**889.156651**	Linear:			
Aroclor-1262					6	34.98	
4.71	4.73	4.75	2316507	340.655969			1
4.90	4.92	4.94	3174768	469.333504			2
5.09	5.11	5.13	8918476	693.152131			3
5.31	5.33	5.35	1476354	276.910007			4
5.35	5.37	5.39	5779629	673.487523			5
5.73	5.75	5.77	2123600	457.247727			6
Height Summation:			**23789334**				
Amount Avg CF:			**485.131144**	Linear:			
Aroclor-1268					6	120.58	
5.31	5.33	5.35	1476354	85.024926			1
5.35	5.37	5.39	5779629	328.759691			2
5.51	5.53	5.55	121822.1	8.065924			3
5.57	5.59	5.61	86362.55	23.650468			4
5.73	5.75	5.77	2123600	358.863852			5
5.93	5.95	5.97	478595.6	10.641584			6
Height Summation:			**10066363.25**				
Amount Avg CF:			**135.834408**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			243.0887	47.1878		32.35	4	40	
Aroclor-1221			243.0887	72.9266		** 70.86	3	5	
Aroclor-1232			243.0887	58.6273		37.98	4	10	
Aroclor-1242			243.0887	58.6273		35.04	4	30	
Aroclor-1248			243.0887	47.1878		13.98	4	40	
Aroclor-1254			243.0887	62.9171		6.81	4	40	
Aroclor-1260			243.0887	55.7674		5.66	4	40	
Aroclor-1262			243.0887	47.1878		1.00	4	40	
Aroclor-1268			243.0887	47.1878		1.53	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998240ACF DF5 AC42A05 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:26:43 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.015.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		5170	5746
2.098		9008	11062
2.131		27287	18041
2.199		68534	54028
2.311		20116	14916
2.38		2811	3805
2.424		4349	5325
2.506		1162	1435
2.55		2431	4212
2.628		4804	2707
2.649		66636	42532
2.775		33158	29342
2.828		5199	4802
2.925	TCX	585718	394721
3.013		1216	811
3.038		4313	2607
3.077		1237	1393
3.109		997	516
3.191		5986	8352
3.23		205922	189561
3.36		801	828
3.398		5097	3026
3.467		1905	1303
3.491		1113	705
3.515		3766	2159
3.588		8519	5913
3.626		1201	619
3.666		3139	2190
3.695		11350	12113
3.732		16955	14563
3.787		6928	5561
3.856		73375	54938
3.884		25668	19898
3.904		15254	8031
3.979		40389	28608
4.003		7000	4485
4.034		12449	8707
4.069		32994	35549
4.11		8645	6744
4.137		1815	977
4.157		1477	1341
4.191		10071	7318
4.227		268754	200172
4.248		64930	38166
4.272		129942	98456
4.339		84735	74214
4.381		523182	499656
4.416		216448	175369
4.456		14869	10564
4.48		25905	19001
4.521		182134	176993
4.574		248860	240469
4.605		87775	57794
4.634		732806	621379

RT A	Compound A	Height A	Area A
4.68		270057	308481
4.718		147929	113128
4.757		738249	709702
4.808		63383	56225
4.849		541155	534471
4.877		11652	6203
4.904		155863	151223
4.957		1069257	1325046
5.006		138831	123035
5.049		762928	764780
5.092		48470	36723
5.128		104797	131197
5.165		1508338	1522423
5.205		13330	4741
5.228		433064	395827
5.271		324496	318749
5.375		58372	50531
5.392		421868	326011
5.45		259292	245550
5.49		164264	142387
5.531		33321	30379
5.575		251941	232224
5.601		19817	11145
5.632		1461548	1380988
5.717		2909	2768
5.775		886	515
5.796		780	494
5.838		791543	816680
5.879		41000	73478
5.889		43474	37321
6.022		17955	22629
6.085		29710	21001
6.109		130359	117345
6.265		324928	325244
6.31		22355	22122
6.384		1442	2357
6.465		72390	79920
6.61	DCB	436522	470505
6.689		1577	1475
6.916		1907	7452
7.105		585	1466
7.442		598	1498
7.748		386	2960
7.779		1933	2270
8.031		791	2747
8.272		515	666
8.68		3263	4155

LANCASTER LABORATORIES

Sample Number: 8998240ACF DF5 AC42A05 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:26:43 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.015.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		7789	9810
2.052		11661	21370
2.099		6721	3730
2.114		7504	4390
2.132		3004	1208
2.158		18439	15666
2.187		7105	6417
2.214		5073	2745
2.231		6015	3156
2.266		3221	1187
2.284		6417	5677
2.32		24923	24238
2.365		373296	245537
2.413		5652	4491
2.436		5257	2866
2.475		2996	2575
2.546		103344	84413
2.616	TCX	3316388	1984050
2.679		4707	2569
2.705		5545	5652
2.735		9670	6018
2.769		2139	1776
2.785		32552	18539
2.813		8404	7230
2.835		6469	5923
2.878		8351	8508
2.922		1132153	876405
2.949		5769	3054
2.973		2444	1501
2.991		2688	2145
3.035		10571	7504
3.069		2494	1341
3.107		28553	32839
3.155		5780	3034
3.18		19856	13993
3.227		38170	24423
3.245		16774	7812
3.264		48429	29620
3.325		53295	45536
3.357		2972	1851
3.385		71746	55008
3.405		42932	20970
3.42		23624	12273
3.434		28760	13436
3.493		58929	42043
3.527		512749	308012
3.551		300969	170358
3.568		163715	83133
3.586		10541	6447
3.654		307204	190134
3.676		60311	31103
3.698		107272	74127
3.726		93163	46690
3.743		183837	103660

RT B	Compound B	Height B	Area B
3.782		67613	59751
3.826		79095	79418
3.854		255303	152710
3.876		2412718	1517062
3.9		638312	378904
3.92		260456	138474
3.939		469828	292227
3.975		3180293	2131499
4.006		1464038	957987
4.024		334642	161247
4.084		195535	156267
4.119		1080697	837812
4.141		23322	21680
4.176		1914777	1434333
4.209		809149	668547
4.236		4212479	3967623
4.275		830075	864166
4.328		5502731	4307156
4.365		450567	358537
4.397		3338767	2318412
4.422		1252109	842353
4.465		7274275	5542531
4.519		15329	13235
4.567		4713984	4589266
4.617		2906459	2430414
4.658		1452835	1286797
4.695		8799873	7118636
4.727		2316507	1553733
4.766		2026905	1553779
4.838		94303	97584
4.865		425472	290636
4.882		200776	114935
4.916		3174769	2451680
4.94		1395478	966256
4.99		1782961	1630249
5.026		1050349	816319
5.055		692447	562214
5.088		598311	376437
5.11		8918476	7023240
5.151		184496	131955
5.183		273605	227515
5.226		6309	4433
5.248		14003	9937
5.283		4996	3005
5.302		76111	46801
5.325		1476354	1208864
5.37		5779629	6171394
5.471		14994	14396
5.526		121822	104490
5.57		188663	148888
5.594		86363	59137
5.644		906227	803874
5.723		3374	2149
5.749		2123600	1768814
5.78		131320	101064
5.949		478596	411560
6.058		1986	1900
6.106	DCB	2731510	2455068
6.283		8653	6703
6.31		9784	8176
6.376		4204	4303
6.443		3675	4340
6.529		8791	9446
6.587		4867	5789
6.643		1917	1592
6.786		5795	5234

RT B	Compound B	Height B	Area B
6.92		2155	3817
7.007		12753	13586
7.134		2309	4454
7.197		2088	2797
7.396		1500	1320
7.552		2238	1857
7.608		3078	6395
8.12		3361	9489
8.213		20435	38973
8.348		2179	3135

8998240ACF DF5 AC42A05 T 171380028A 10225 **SW-846 8082**

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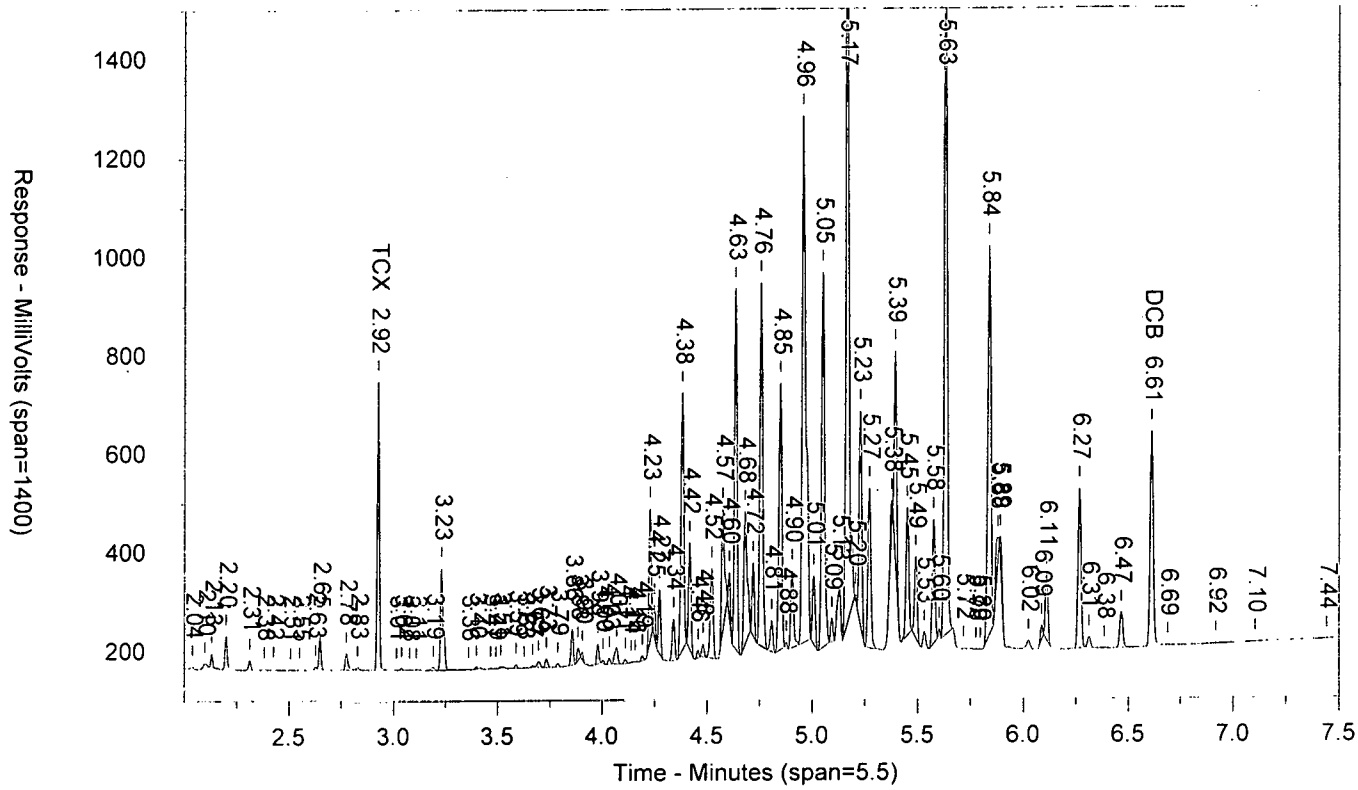

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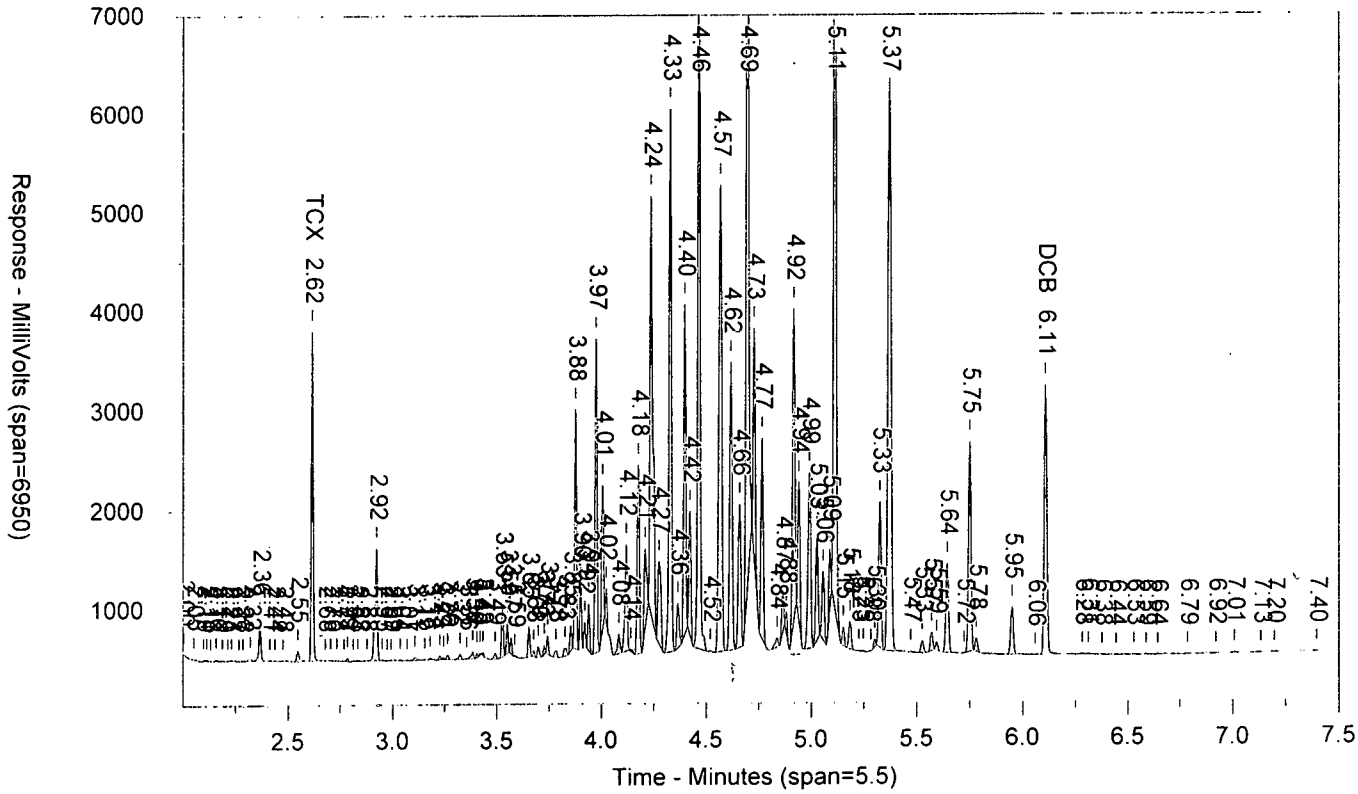

LANCASTER LABORATORIES

Sample Number: 8998240ACF DF5 AC42A05 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:26:43 PM Sample Weight: 10.49
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	585718	24.567	TCX	2.616	3316388	22.866	TCX
6.61	436522	30.235	DCB	6.106	2731510	26.724	DCB

Files:
Area File: 20pcbs17137004.015.RAW
Area File: 20pcbs17137004B.015.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:35:25 PM
File Reported On: 5/21/2017 at 4:35:38 PM

8998240ACF DF5 AC42A05 T 171380028A 10225 SW-846 8082

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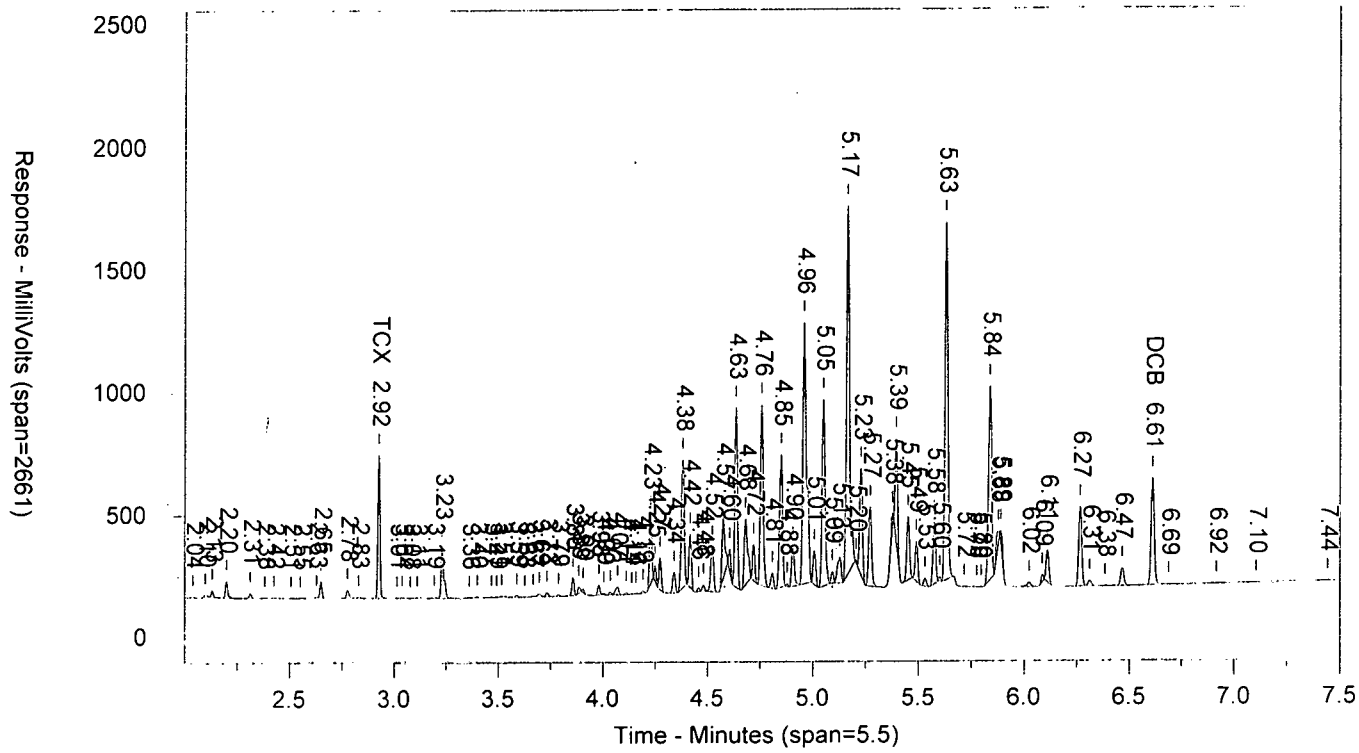

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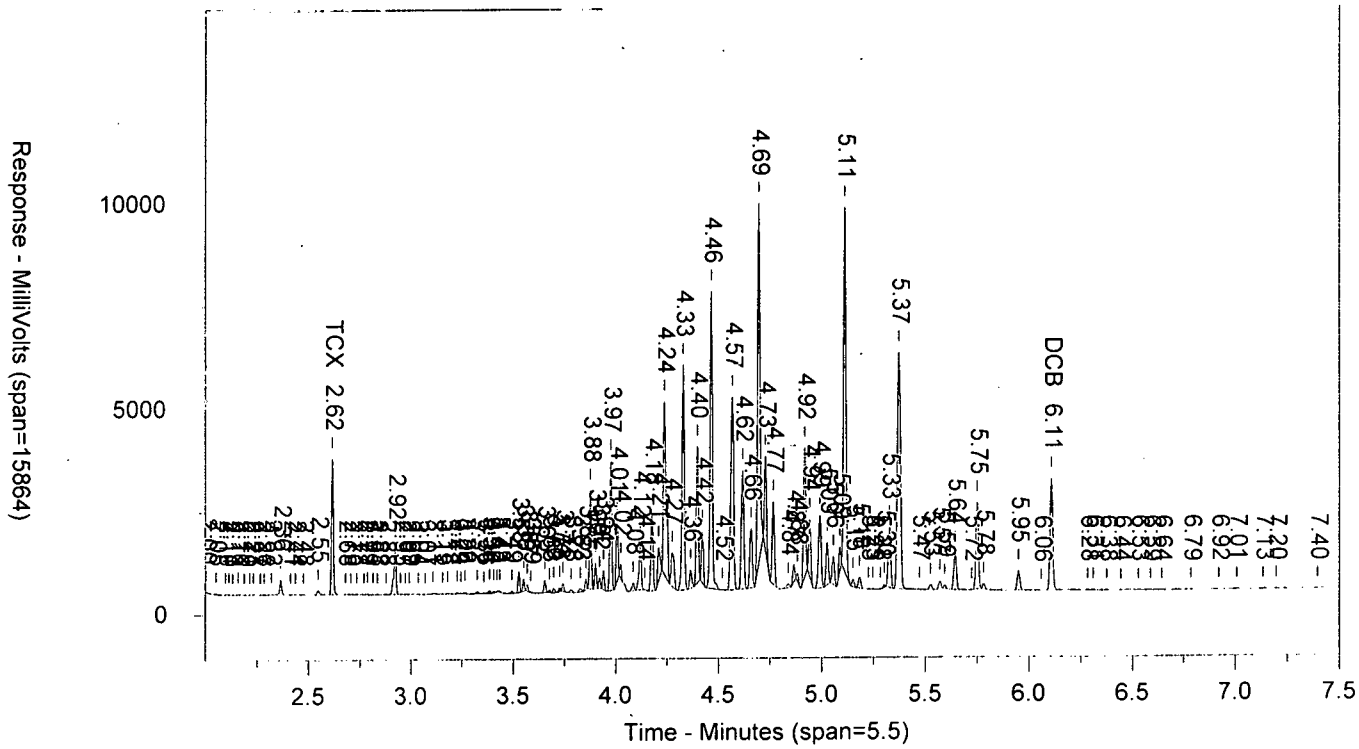

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Data Summary

Sample Name: 8998241 ACF DF5 42A06 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.45 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 16:38:10
Instrument	17342A
Result file	20PCBS17137004.016.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 91% (61 - 152) Conc: 25.44708
%SSR(DCB) 103% (48 - 164) Conc: 28.9093

Analysis Report (B)

Injected on	May 21, 2017 16:38:10
Instrument	17342B
Result file	20PCBS17137004B.016.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 95% (61 - 152) Conc: 26.58885
%SSR(DCB) 102% (48 - 164) Conc: 28.43001

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	604390	25.44708
Decachlorobiphenyl	6.58	6.61	6.64	415792	28.9093

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	3841652	26.58885
Decachlorobiphenyl	6.08	6.11	6.14	2894752	28.43001

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	B	26.58885				4.39	
☑	Decachlorobiphenyl	A	28.9093				1.67	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**19.27**	
4.73	4.76	4.77	796348.9	909.176877			1
5.20	5.23	5.24	536115.8	946.055155			3
5.37	5.39	5.41	474550.2	733.928805			4
5.61	5.63	5.65	1857411	1185.02993			5
5.82	5.84	5.86	1032198	1172.280358			6

Height summation: **4696623.9**
Concentration CF: **989.294225** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.64**	
4.31	4.33	4.35	6070526	1028.754494			1
4.44	4.46	4.48	7937485	1140.663061			2
4.55	4.57	4.59	5546560	990.68551			3
4.90	4.92	4.94	4029310	936.265067			4
5.09	5.11	5.13	11160020	1142.679065			5
5.35	5.37	5.39	7510034	1149.484607			6

Height summation: **42253935**
Concentration CF: **1064.755301** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<244.0191	<47.3684			4	
☑	PCB-1221			<244.0191	<73.2057			3	
☑	PCB-1232			<244.0191	<58.8517			4	
☑	PCB-1242			<244.0191	<58.8517			4	
☑	PCB-1248			<244.0191	<47.3684			4	
☑	PCB-1254			<244.0191	<63.1579			4	
☑	PCB-1260	B	1064.755301	244.0191	55.9809		7.35	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998241** ACF DF5 42A06 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.45 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342A
Result file : 20PCBS17137004.016.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 91% (61-152) Conc.: 25.44708
%SSR(DCB) : 103% (48-164) Conc.: 28.9093

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**94.60**	
3.16	3.19	3.20	3935.641	9.177378			1
3.37	3.40	3.41	2910.664	6.646916			2
3.49	3.51	3.53	2675.403	5.426772			3
3.71	3.73	3.75	21778.54	39.872034			4
3.76	3.79	3.80	3728.966	8.346709			5
3.96	3.98	4.00	15646.15	43.677353			6
Height Summation:			**50675.364**				
Amount Avg CF:			**18.85786**	Linear:			
Aroclor-1221					**3**	**17.22**	
3.06	3.08	3.10	993.8542	4.837922			1
3.11	3.12	3.15	1052.388	5.925717			2
3.16	3.19	3.20	3935.641	6.859662			3
Height Summation:			**5981.8832**				
Amount Avg CF:			**5.874434**	Linear:			
Aroclor-1232					**6**	**106.20**	
3.16	3.19	3.20	3935.641	7.647257			1
3.38	3.40	3.42	2910.664	14.055263			2
3.49	3.51	3.53	2675.403	11.774219			3
3.71	3.73	3.75	21778.54	88.35325			4
3.77	3.79	3.81	3728.966	19.296282			5
3.96	3.98	4.00	15646.15	104.737826			6
Height Summation:			**50675.364**				
Amount Avg CF:			**40.97735**	Linear:			
Aroclor-1242					**6**	**95.34**	
3.16	3.19	3.20	3935.641	10.712719			1
3.38	3.40	3.42	2910.664	8.023241			2
3.49	3.51	3.53	2675.403	6.734961			3
3.71	3.73	3.75	21778.54	48.735146			4
3.77	3.79	3.81	3728.966	10.657823			5
3.96	3.98	4.00	15646.15	54.702063			6
Height Summation:			**50675.364**				
Amount Avg CF:			**23.260992**	Linear:			
Aroclor-1248					**6**	**190.06**	
3.76	3.79	3.80	3728.966	15.373365			1
3.83	3.86	3.87	32122.56	72.820677			2
3.96	3.98	4.00	15646.15	30.117709			3
4.05	4.07	4.09	24979.08	57.841102			4
4.23	4.23	4.27	158111.1	309.062258			5
+ 4.23	4.25	4.27	94087.63	183.914572			5
4.61	4.64	4.65	762484	2033.190363			6
Height Summation:			**997071.856**				
Amount Avg CF:			**419.734246**	Linear:			
Aroclor-1254					**6**	**82.67**	
4.21	4.23	4.25	158111.1	262.13148			1
4.55	4.57	4.59	184399.4	304.202176			2
4.61	4.64	4.65	762484	622.799906			3
4.73	4.76	4.77	796348.9	2167.069616			4
4.83	4.85	4.87	680181.7	840.709643			5
5.14	5.17	5.18	1754233	2110.770751			6
Height Summation:			**4335758.1**				
Amount Avg CF:			**1051.280595**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342B
Result file : 20PCBS17137004B.016.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 95% (61-152) Conc.: 26.58885
%SSR(DCB) : 102% (48-164) Conc.: 28.43001

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**117.06**	
+ 2.88	2.88	2.92	9200.872	3.893242			1
2.88	2.91	2.92	460577.3	194.887927			1
3.21	3.23	3.25	22982.35	7.825414			2
+ 3.21	3.25	3.25	18607.39	6.335754			2
+ 3.40	3.41	3.44	56134.44	19.021707			3
+ 3.40	3.42	3.44	10804.11	3.661079			3
3.40	3.43	3.44	94496.73	32.021146			3
3.47	3.49	3.51	37941.43	10.871706			4
3.63	3.65	3.67	137307.5	46.827768			5
+ 3.72	3.73	3.76	69376.17	27.611537			6
3.72	3.74	3.76	163208.9	64.956721			6
Height Summation:			**916514.21**				
Amount Avg CF:			**59.565114**	Linear:			
Aroclor-1221					**3**	**115.09**	
2.77	2.79	2.81	37546.17	30.103956			1
2.83	2.85	2.87	9475.412	12.324312			2
+ 2.88	2.88	2.92	9200.872	2.884823			3
2.88	2.91	2.92	460577.3	144.408498			3
Height Summation:			**507598.882**				
Amount Avg CF:			**62.278922**	Linear:			
Aroclor-1232					**6**	**74.45**	
+ 2.88	2.88	2.92	9200.872	3.186713			1
2.88	2.91	2.92	460577.3	159.520492			1
3.21	3.23	3.25	22982.35	16.46976			2
+ 3.21	3.25	3.25	18607.39	13.334548			2
+ 3.40	3.41	3.44	56134.44	44.963984			3
+ 3.40	3.42	3.44	10804.11	8.654149			3
3.40	3.43	3.44	94496.73	75.692382			3
3.47	3.49	3.51	37941.43	24.737007			4
+ 3.66	3.68	3.70	38989.95	93.082967			5
3.66	3.70	3.70	88009.48	210.110131			5
+ 3.73	3.73	3.77	69376.17	63.173507			6
3.73	3.74	3.77	163208.9	148.617005			6
Height Summation:			**867216.19**				
Amount Avg CF:			**105.857796**	Linear:			
Aroclor-1242					**6**	**111.92**	
+ 2.88	2.88	2.92	9200.872	4.527908			1
2.88	2.91	2.92	460577.3	226.658048			1
3.21	3.23	3.25	22982.35	9.470215			2
+ 3.21	3.25	3.25	18607.39	7.667448			2
+ 3.40	3.41	3.44	56134.44	23.521928			3
+ 3.40	3.42	3.44	10804.11	4.52723			3
3.40	3.43	3.44	94496.73	39.596819			3
3.47	3.49	3.51	37941.43	13.910564			4
3.64	3.65	3.68	137307.5	61.142383			5
+ 3.73	3.73	3.77	69376.17	34.48922			6
3.73	3.74	3.77	163208.9	81.136616			6
Height Summation:			**916514.21**				
Amount Avg CF:			**71.985774**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998241** ACF DF5 42A06 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.45 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342A
Result file : 20PCBS17137004.016.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	36.30	
4.73	4.75	4.77	796348.9	909.176877			1
5.03	5.05	5.07	927574.5	1916.597004			2
5.20	5.23	5.24	536115.8	946.055155			3
+ 5.37	5.37	5.41	95205.01	147.241955			4
5.37	5.39	5.41	474550.2	733.928805			4
5.61	5.63	5.65	1857411	1185.02993			5
5.82	5.84	5.86	1032198	1172.280358			6
Height Summation:			**5624198.4**				
Amount Avg CF:			**1143.844688**	Linear:			
Aroclor-1262					6	46.97	
5.21	5.23	5.24	536115.8	513.831952			1
+ 5.37	5.37	5.41	95205.01	112.950369			2
5.37	5.39	5.41	474550.2	563.002097			2
5.61	5.63	5.65	1857411	911.723519			3
5.81	5.84	5.85	1032198	916.791111			4
5.87	5.88	5.91	84306.25	151.155879			5
+ 5.87	5.89	5.91	80577.9	144.471179			5
6.25	6.27	6.29	400628.7	590.424689			6
Height Summation:			**4385209.95**				
Amount Avg CF:			**607.821541**	Linear:			
Aroclor-1268					6	125.79	
5.81	5.84	5.85	1032198	412.286437			1
5.87	5.88	5.91	84306.25	38.594301			2
+ 5.87	5.89	5.91	80577.9	36.887511			2
6.00	6.02	6.04	18558.37	9.111125			3
6.07	6.08	6.11	33737.74	72.246836			4
6.25	6.27	6.29	400628.7	476.181427			5
6.45	6.47	6.49	90130.91	13.689235			6
Height Summation:			**1659559.97**				
Amount Avg CF:			**170.35156**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342B
Result file : 20PCBS17137004B.016.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	176.28	
+ 3.40	3.41	3.44	56134.44	48.229419			1
+ 3.40	3.42	3.44	10804.11	9.282643			1
3.40	3.43	3.44	94496.73	81.189416			1
3.51	3.53	3.55	234632.2	71.475598			2
3.63	3.65	3.67	137307.5	33.479165			3
+ 3.72	3.73	3.76	69376.17	23.426882			4
3.72	3.74	3.76	163208.9	55.112234			4
3.86	3.88	3.90	1829413	326.148402			5
4.22	4.24	4.26	4433726	1787.778445			6
Height Summation:			**6892784.33**				
Amount Avg CF:			**392.530543**	Linear:			
Aroclor-1254					6	72.82	
4.16	4.18	4.19	1571112	359.580316			1
4.22	4.24	4.26	4433726	571.897133			2
4.31	4.33	4.35	6070526	1683.246736			3
4.38	4.40	4.42	3985464	764.728574			4
4.44	4.46	4.48	7937485	2644.770693			5
4.60	4.62	4.64	3689632	1009.125237			6
Height Summation:			**27687945**				
Amount Avg CF:			**1172.224782**	Linear:			
Aroclor-1260					6	8.64	
4.31	4.33	4.35	6070526	1028.754494			1
4.44	4.46	4.48	7937485	1140.663061			2
4.55	4.57	4.59	5546560	990.68551			3
4.90	4.92	4.94	4029310	936.265067			4
5.09	5.11	5.13	11160020	1142.679065			5
5.35	5.37	5.39	7510034	1149.484607			6
Height Summation:			**42253935**				
Amount Avg CF:			**1064.7553**	Linear:			
Aroclor-1262					6	37.09	
4.71	4.73	4.75	2871834	423.936605			1
4.90	4.92	4.94	4029310	597.942528			2
5.09	5.11	5.13	11160020	870.687051			3
5.31	5.33	5.35	1764749	332.269355			4
5.35	5.37	5.39	7510034	878.477604			5
5.73	5.75	5.77	2553696	551.959525			6
Height Summation:			**29889643**				
Amount Avg CF:			**609.212111**	Linear:			
Aroclor-1268					6	122.65	
5.31	5.33	5.35	1764749	102.022956			1
5.35	5.37	5.39	7510034	428.824612			2
5.51	5.53	5.55	149756.9	9.95346			3
5.57	5.59	5.61	82795.38	22.760384			4
5.73	5.75	5.77	2553696	433.196952			5
5.93	5.95	5.97	568245.8	12.683321			6
Height Summation:			**12629277.08**				
Amount Avg CF:			**168.240281**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			244.0191	47.3684		** 103.81	4	40	
Aroclor-1221			244.0191	73.2057		** 165.52	3	5	
Aroclor-1232			244.0191	58.8517		** 88.37	4	10	
Aroclor-1242			244.0191	58.8517		** 102.31	4	30	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998241** ACF DF5 42A06 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.45 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342A
Result file : 20PCBS17137004.016.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 16:38:10
Instrument : CP20--17342B
Result file : 20PCBS17137004B.016.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1248			244.0191	47.3684		6.70	4	40	
Aroclor-1254			244.0191	63.1579		10.88	4	40	
Aroclor-1260			244.0191	55.9809		7.16	4	40	
Aroclor-1262			244.0191	47.3684		0.23	4	40	
Aroclor-1268			244.0191	47.3684		1.25	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998241ACF DF5 AC42A06 T 171380028A 10225_ SW-846 8082
Injected On: 5/21/2017 4:38:10 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.016.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.006		1061	514
2.038		2633	2766
2.101		5957	6683
2.131		27167	16934
2.198		15982	10690
2.311		24924	17810
2.388		4181	5095
2.425		2356	1852
2.551		1965	3709
2.627		5716	3470
2.649		9762	6177
2.776		15653	13512
2.828		2456	2563
2.925	TCX	604390	408342
3.038		5946	3951
3.082		994	1003
3.125		1052	749
3.193		3936	4492
3.23		32467	15718
3.244		55581	29590
3.397		2911	1953
3.467		1270	965
3.514		2675	2578
3.587		7271	5569
3.625		1152	1169
3.665		2455	1919
3.7		9897	9355
3.734		21779	18167
3.787		3729	3390
3.821		1010	959
3.855		32123	23556
3.883		15941	11140
3.904		36407	23400
3.979		15646	10851
4.003		3829	2408
4.033		8771	6132
4.069		24979	26715
4.112		10421	8327
4.138		4289	2855
4.19		9731	6885
4.228		158111	116202
4.248		94088	57609
4.272		118024	90248
4.339		78649	65266
4.382		403814	400356
4.416		224292	181259
4.456		19623	14645
4.479		21286	15501
4.521		166682	156852
4.574		184399	192485
4.605		102673	64536
4.635		762484	644756
4.68		293290	335604
4.719		130774	100421

RT A	Compound A	Height A	Area A
4.757		796349	769383
4.808		74645	64647
4.849		680182	646005
4.878		9811	5086
4.905		188087	186876
4.957		1211283	1512397
5.006		150168	138119
5.05		927575	921108
5.092		59827	44744
5.13		126296	155396
5.165		1754233	1586974
5.188		58400	27285
5.228		536116	478793
5.27		391152	382536
5.325		3616	3108
5.375		95205	73427
5.393		474550	391891
5.451		330109	305856
5.491		198911	182537
5.53		35097	32742
5.575		315043	277818
5.602		27765	16128
5.632		1857411	1752299
5.721		4425	4480
5.776		1373	738
5.799		1326	758
5.839		1032198	1047221
5.877		84306	94052
5.891		80578	57796
5.989		2751	2147
6.022		18558	22202
6.085		33738	24696
6.109		160884	145547
6.266		400629	403615
6.312		28204	26939
6.466		90131	89878
6.611	DCB	415792	473287
6.69		4049	3736
6.855		738	2178
6.884		959	1126
7.076		1314	3162
7.223		2027	2978
7.837		520	3171
7.954		627	533
8.027		16472	30313
8.432		872	395

LANCASTER LABORATORIES

Sample Number: 8998241ACF DF5 AC42A06 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:38:10 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.016.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		11764	7965
2.115		27701	24030
2.158		10315	7171
2.24		14604	24945
2.311		9453	4852
2.365		75494	62987
2.394		3382	1952
2.412		3468	2557
2.435		4272	2223
2.463		1878	1817
2.494		11338	13860
2.531		6283	5116
2.547		46252	37600
2.595		3145	2381
2.616	TCX	3841652	2215584
2.679		3742	2223
2.705		9580	10551
2.785		37546	20384
2.846		9475	12399
2.879		9201	7157
2.912		460577	480851
2.95		5160	4590
2.987		7480	4860
3.034		8678	5113
3.107		12376	5898
3.18		18028	16118
3.202		5015	2681
3.227		22982	14210
3.245		18607	9444
3.265		45192	29448
3.325		40487	38760
3.355		3580	2161
3.384		40815	33571
3.405		56134	28754
3.419		10804	3732
3.435		94497	52528
3.493		37941	33538
3.527		234632	144620
3.55		234837	126567
3.568		304966	169009
3.654		137308	85553
3.676		38990	19902
3.697		88009	69562
3.726		69376	35003
3.742		163209	91207
3.78		67573	54743
3.825		67355	67241
3.854		211578	123993
3.876		1829413	1213820
3.901		589209	357748
3.92		275503	141863
3.938		467979	274557
3.974		2636720	1776243
4.006		1528113	1016121

RT B	Compound B	Height B	Area B
4.024		198646	90038
4.043		75555	49239
4.085		165486	138457
4.118		914598	736809
4.141		48295	46986
4.176		1571112	1155344
4.209		879295	726652
4.236		4433727	4282330
4.275		921174	896140
4.328		6070526	4801606
4.365		538930	426410
4.397		3985464	2812917
4.422		1410365	984501
4.464		7937485	6430190
4.517		17131	12730
4.567		5546560	5355410
4.617		3689632	3021926
4.658		1781508	1556410
4.695		10418980	8744090
4.727		2871834	1973828
4.766		2466653	1894865
4.838		79270	92421
4.865		527555	348588
4.882		261531	142027
4.917		4029310	3086596
4.94		1658064	1193227
4.991		2380618	2082051
5.026		1266978	1023633
5.056		873630	709018
5.088		767213	479529
5.111		11160020	9321259
5.152		229411	165965
5.184		331787	276531
5.226		8504	6148
5.249		22059	15767
5.282		9420	5487
5.303		92523	57697
5.326		1764749	1496094
5.37		7510034	7891832
5.444		31726	23799
5.471		12036	10985
5.526		149757	127187
5.571		256803	198949
5.594		82795	55524
5.617		10673	4789
5.644		1181256	1000118
5.686		6380	4827
5.723		4414	2840
5.75		2553696	2252233
5.781		158682	120498
5.858		3584	4044
5.949		568246	501422
6.108	DCB	2894753	2495630
6.283		20474	15660
6.31		77377	67981
6.53		22720	25517
6.583		8668	13280
6.648		2213	3642
6.73		2257	2114
6.785		5958	6084
6.954		2705	3505
7.013		4965	4731
7.129		3254	4725
7.264		1044	2570
7.417		3487	5205
7.464		3967	4039

RT B	Compound B	Height B	Area B
7.554		86413	109924
7.719		2187	4264
7.97		2737	4984
8.119		2647	2658
8.214		19800	34755
8.426		5269	8925

8998241ACF DF5 AC42A06 T 171380028A 10225 SW-846 8082

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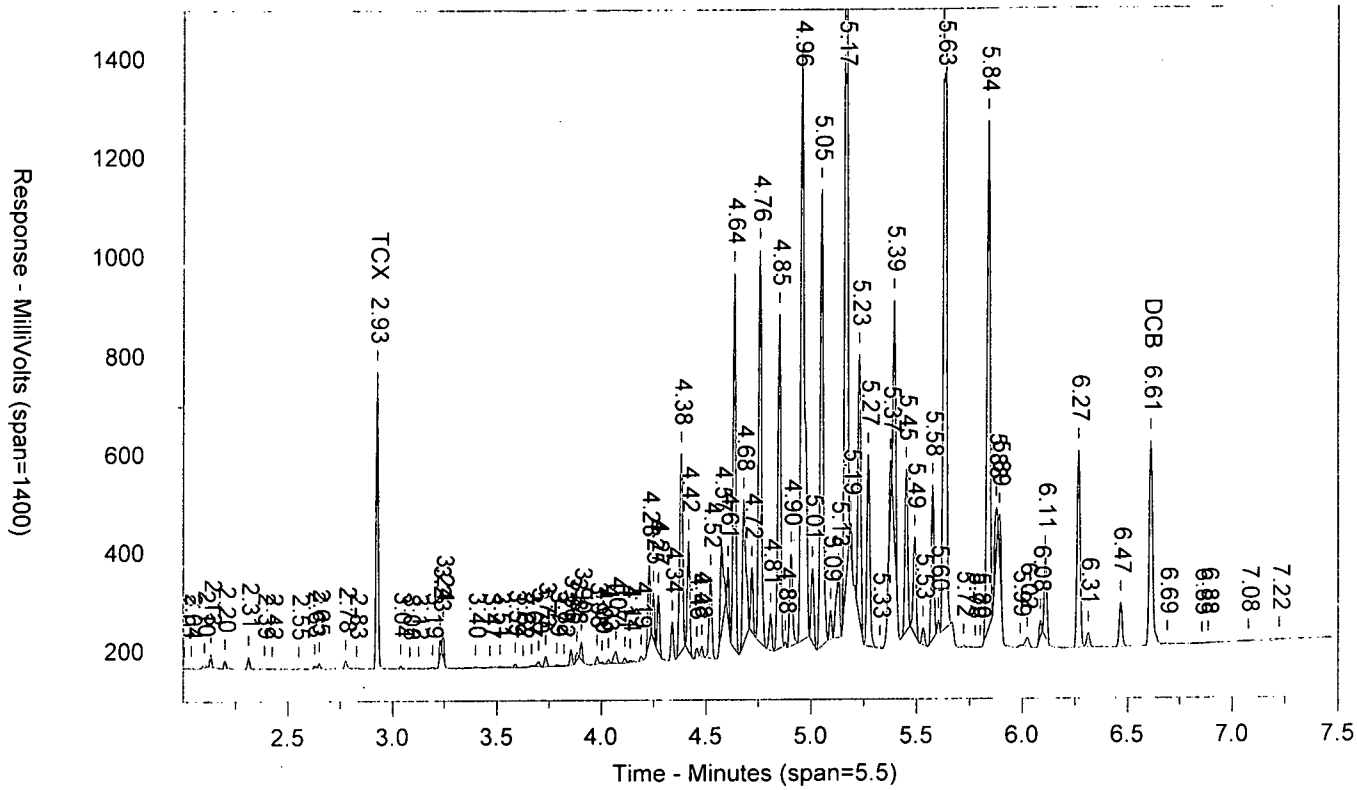

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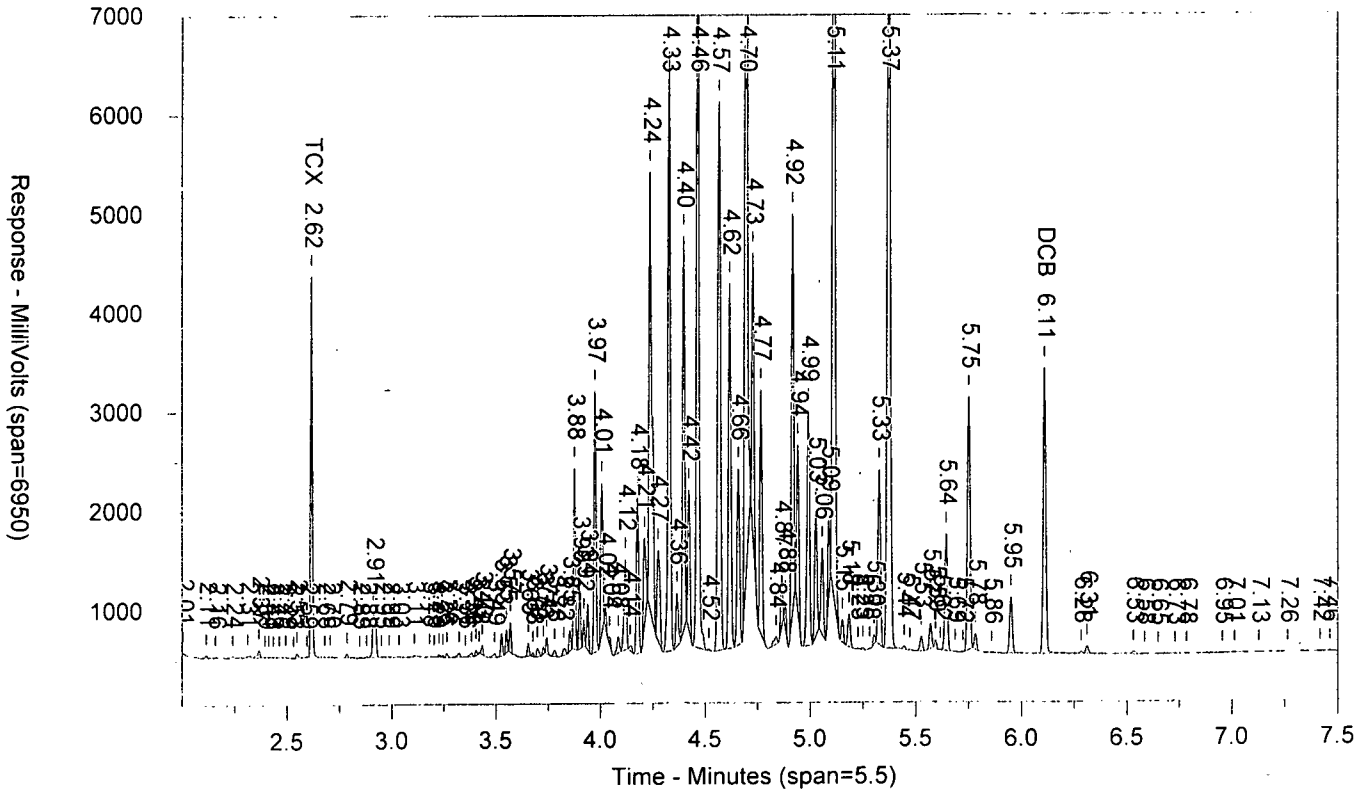

LANCASTER LABORATORIES

Sample Number: 8998241ACF DF5 AC42A06 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:38:10 PM Sample Weight: 10.45
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	604390	25.447	TCX	2.616	3841652	26.589	TCX
6.611	415792	28.909	DCB	6.108	2894753	28.43	DCB

Files:
Area File: 20pcbs17137004.016.RAW
Area File: 20pcbs17137004B.016.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:46:52 PM
File Reported On: 5/21/2017 at 4:46:58 PM

8998241ACF DF5 AC42A06 T 171380028A 10225 SW-846 8082

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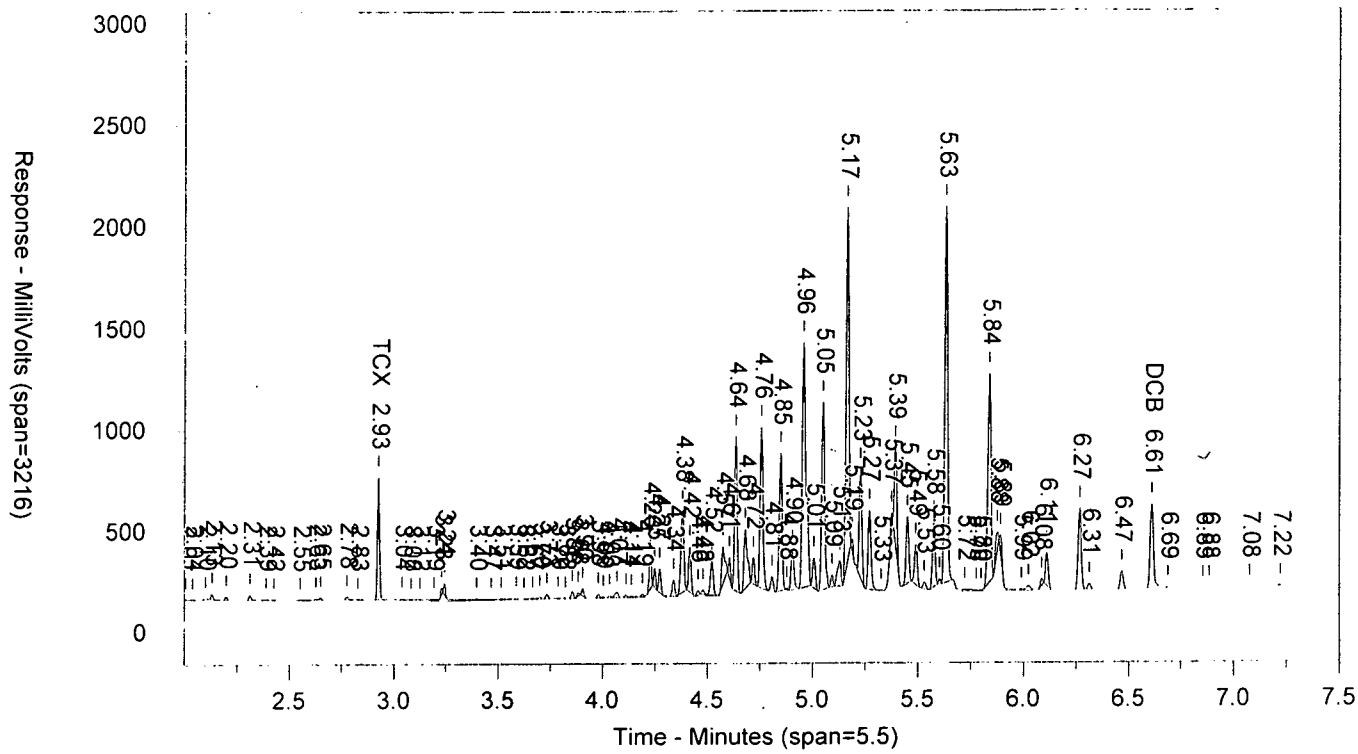

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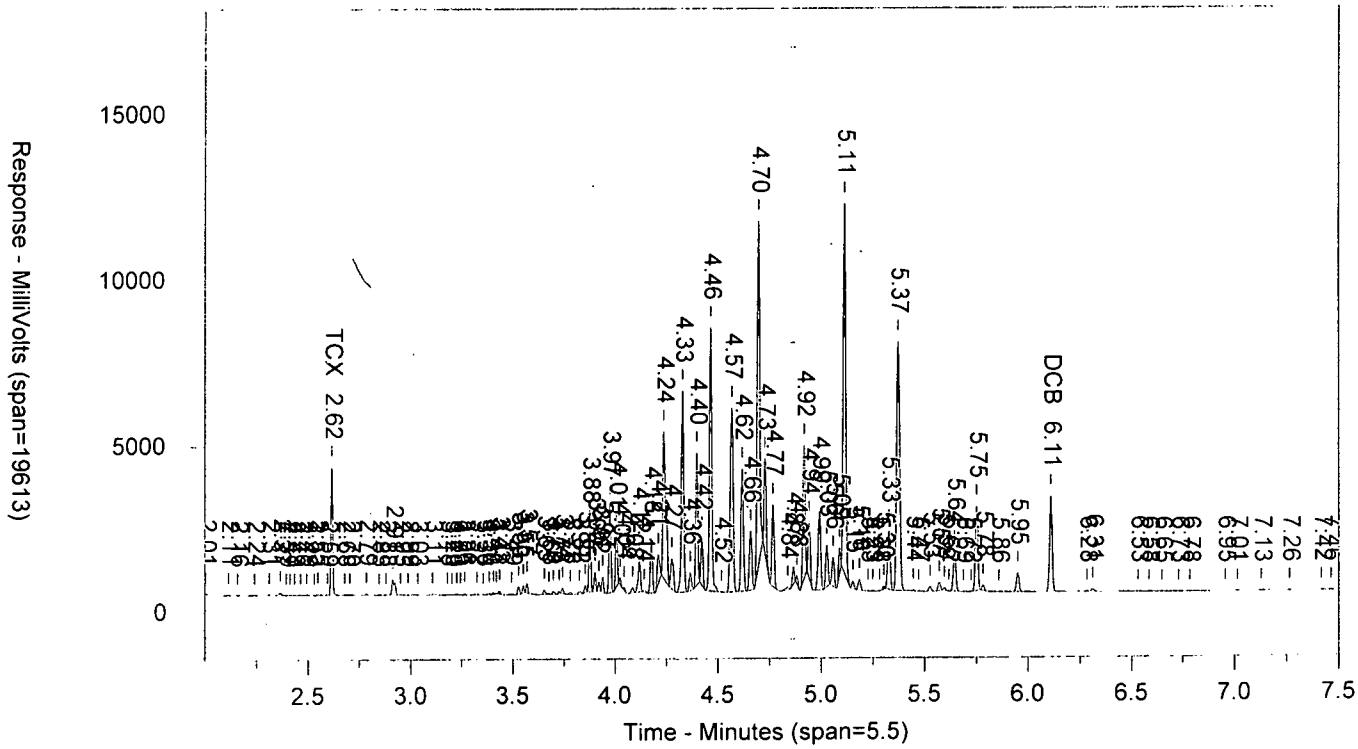

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Data Summary

Sample Name: 8998242 RI ACF 42A07 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 16:49:37
Instrument	17342A
Result file	20PCBS17137004.017.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 98% (61 - 152) Conc: 28.23004
%SSR(DCB) 104% (48 - 164) Conc: 29.75558

Analysis Report (B)

Injected on	May 21, 2017 16:49:37
Instrument	17342B
Result file	20PCBS17137004B.017.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 97% (61 - 152) Conc: 27.9138
%SSR(DCB) 103% (48 - 164) Conc: 29.47136

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3265821	28.23004
Decachlorobiphenyl	6.58	6.61	6.64	2084530	29.75558

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	19644400	27.9138
Decachlorobiphenyl	6.08	6.11	6.14	14616250	29.47136

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	28.23004				1.13	
☑ Decachlorobiphenyl	A	29.75558				0.96	

Multiple Component Data

Aroclor-1260 (%RSD 16.43)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	238363.9	55.870684			1
5.03	5.05	5.07	208221.9	88.329733			2
5.20	5.23	5.24	166777.8	60.421931			3
5.37	5.39	5.41	212777.9	67.561113			4
5.61	5.63	5.65	534653.4	70.031293			5
5.82	5.84	5.86	319097	74.402873			6

Height summation: **1679891.9**
Concentration CF: **69.436271** L:

Aroclor-1260 (%RSD 7.95)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	1785835	62.13342			1
4.44	4.46	4.48	2382142	70.281434			2
4.55	4.57	4.59	1656288	60.736038			3
4.90	4.92	4.94	1288214	61.454637			4
5.09	5.11	5.13	3465090	72.8404			5
5.35	5.37	5.39	2198948	69.099471			6

Height summation: **12776517**
Concentration CF: **66.0909** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<50.0982	<9.725			4	
☑ PCB-1221			<50.0982	<15.0295			3	
☑ PCB-1232			<50.0982	<12.0825			4	
☑ PCB-1242			<50.0982	<12.0825			4	
☑ PCB-1248			<50.0982	<9.725			4	
☑ PCB-1254			<50.0982	<12.9666			4	
☑ PCB-1260	A	69.436271	50.0982	11.4931		4.94	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998242** RI ACF 42A07 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:49:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.017.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 98% (61-152) Conc.: 28.23004
%SSR(DCB) : 104% (48-164) Conc.: 29.75558

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	149.34	
3.16	3.19	3.20	2796.219	1.338668			1
3.37	3.40	3.41	1385.655	0.649653			2
3.49	3.51	3.53	4797.415	1.997828			3
3.71	3.74	3.75	46269.95	17.391505			4
3.76	3.79	3.80	3731.223	1.714654			5
3.96	3.98	4.00	4890.187	2.802675			6
Height Summation:			63870.649				
Amount Avg CF:			4.315831	Linear:			
Aroclor-1221					2	100.78	
3.11	3.13	3.15	5158.951	5.963826			2
3.16	3.19	3.20	2796.219	1.000592			3
Height Summation:			7955.17				
Amount Avg CF:			3.482209	Linear:			
Aroclor-1232					6	154.72	
3.16	3.19	3.20	2796.219	1.115475			1
3.38	3.40	3.42	1385.655	1.373727			2
3.49	3.51	3.53	4797.415	4.334597			3
3.71	3.74	3.75	46269.95	38.538189			4
3.77	3.79	3.81	3731.223	3.964012			5
3.96	3.98	4.00	4890.187	6.720786			6
Height Summation:			63870.649				
Amount Avg CF:			9.341131	Linear:			
Aroclor-1242					6	148.61	
3.16	3.19	3.20	2796.219	1.562622			1
3.38	3.40	3.42	1385.655	0.784172			2
3.49	3.51	3.53	4797.415	2.479429			3
3.71	3.74	3.75	46269.95	21.257444			4
3.77	3.79	3.81	3731.223	2.189424			5
3.96	3.98	4.00	4890.187	3.510106			6
Height Summation:			63870.649				
Amount Avg CF:			5.297199	Linear:			
Aroclor-1248					6	142.26	
3.76	3.79	3.80	3731.223	3.158132			1
3.83	3.86	3.87	48050.36	22.363497			2
3.96	3.98	4.00	4890.187	1.932584			3
4.05	4.07	4.09	12127.6	5.765454			4
4.23	4.23	4.27	54667.83	21.938855			5
+ 4.23	4.25	4.27	11667.27	4.682215			5
4.61	4.63	4.65	174897.1	95.747716			6
Height Summation:			298364.3				
Amount Avg CF:			25.15104	Linear:			
Aroclor-1254					6	90.26	
4.21	4.23	4.25	54667.83	18.607463			1
4.55	4.57	4.59	53004.24	17.951963			2
4.61	4.63	4.65	174897.1	29.329112			3
4.73	4.76	4.77	238363.9	133.170635			4
4.83	4.85	4.87	123255.3	31.277008			5
5.14	5.17	5.18	454486.9	112.272571			6
Height Summation:			1098675.27				
Amount Avg CF:			57.101459	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:49:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.017.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 97% (61-152) Conc.: 27.9138
%SSR(DCB) : 103% (48-164) Conc.: 29.47136

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	100.05	
2.88	2.88	2.92	7685.996	0.6677			1
+ 3.21	3.23	3.25	29721.69	2.07771			2
3.21	3.25	3.25	105872.4	7.401064			2
+ 3.40	3.40	3.44	222399.8	15.472233			3
3.40	3.43	3.44	317833.5	22.111503			3
3.47	3.48	3.51	43406.58	2.553513			4
3.63	3.65	3.67	42487.39	2.974868			5
+ 3.72	3.73	3.76	9185.187	0.750528			6
3.72	3.74	3.76	172163.2	14.06757			6
Height Summation:			689449.066				
Amount Avg CF:			8.296036	Linear:			
Aroclor-1221					3	95.83	
2.77	2.78	2.81	11886.38	1.956618			1
2.83	2.84	2.87	20053.89	5.355028			2
2.88	2.88	2.92	7685.996	0.494754			3
Height Summation:			39626.266				
Amount Avg CF:			2.602133	Linear:			
Aroclor-1232					6	97.80	
2.88	2.88	2.92	7685.996	0.546528			1
+ 3.21	3.23	3.25	29721.69	4.372853			2
3.21	3.25	3.25	105872.4	15.576651			2
+ 3.40	3.40	3.44	222399.8	36.573649			3
3.40	3.43	3.44	317833.5	52.267722			3
3.47	3.48	3.51	43406.58	5.810153			4
3.66	3.68	3.70	24080.91	11.802906			5
+ 3.73	3.73	3.77	9185.187	1.717162			6
3.73	3.74	3.77	172163.2	32.18574			6
Height Summation:			671042.586				
Amount Avg CF:			19.698283	Linear:			
Aroclor-1242					6	99.62	
2.88	2.88	2.92	7685.996	0.776546			1
+ 3.21	3.23	3.25	29721.69	2.514418			2
3.21	3.25	3.25	105872.4	8.956672			2
+ 3.40	3.40	3.44	222399.8	19.132707			3
3.40	3.43	3.44	317833.5	27.342719			3
3.47	3.48	3.51	43406.58	3.267271			4
3.64	3.65	3.68	42487.39	3.884245			5
+ 3.73	3.73	3.77	9185.187	0.937475			6
3.73	3.74	3.77	172163.2	17.571624			6
Height Summation:			689449.066				
Amount Avg CF:			10.299846	Linear:			
Aroclor-1248					6	97.37	
+ 3.40	3.40	3.44	222399.8	39.22975			1
3.40	3.43	3.44	317833.5	56.063579			1
3.51	3.53	3.55	344184.1	21.52581			2
3.63	3.65	3.67	42487.39	2.12686			3
+ 3.72	3.73	3.76	9185.187	0.636782			4
3.72	3.74	3.76	172163.2	11.935566			4
3.86	3.88	3.90	493405.2	18.0595			5
4.22	4.24	4.26	1028178	85.116089			6
Height Summation:			2398251.39				
Amount Avg CF:			32.471234	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998242** RI ACF 42A07 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.18 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 16:49:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.017.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	16.43	
4.73	4.76	4.77	238363.9	55.870684			1
5.03	5.05	5.07	208221.9	88.329733			2
5.20	5.23	5.24	166777.8	60.421931			3
5.37	5.39	5.41	212777.9	67.561113			4
5.61	5.63	5.65	534653.4	70.031293			5
5.82	5.84	5.86	319097	74.408873			6
Height Summation:			**1679891.9**				
Amount Avg CF:			**69.436271**	Linear:			
Aroclor-1262					6	24.02	
5.21	5.23	5.24	166777.8	32.817028			1
5.37	5.39	5.41	212777.9	51.826619			2
5.61	5.63	5.65	534653.4	53.879801			3
5.81	5.84	5.85	319097	58.187354			4
5.87	5.89	5.91	88922.31	32.732149			5
6.25	6.27	6.29	144728.6	43.790038			6
Height Summation:			**1466957.01**				
Amount Avg CF:			**45.538832**	Linear:			
Aroclor-1268					6	91.50	
5.81	5.84	5.85	319097	26.167201			1
5.87	5.89	5.91	88922.31	8.357428			2
6.00	6.02	6.04	34048.87	3.43189			3
6.07	6.09	6.11	29878.58	13.135945			4
6.25	6.27	6.29	144728.6	35.316956			5
6.45	6.47	6.49	49296.09	1.537151			6
Height Summation:			**665971.45**				
Amount Avg CF:			**14.657762**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 16:49:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.017.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	92.96	
4.16	4.18	4.19	381301	17.916584			1
4.22	4.24	4.26	1028178	27.228009			2
4.31	4.33	4.35	1785835	101.66262			3
4.38	4.40	4.42	702544.1	27.675822			4
4.44	4.46	4.48	2382142	162.95634			5
4.60	4.62	4.64	645207	36.229271			6
Height Summation:			**6925207.1**				
Amount Avg CF:			**62.278107**	Linear:			
Aroclor-1260					6	7.95	
4.31	4.33	4.35	1785835	62.13342			1
4.44	4.46	4.48	2382142	70.281434			2
4.55	4.57	4.59	1656288	60.736038			3
4.90	4.92	4.94	1288214	61.454637			4
5.09	5.11	5.13	3465090	72.8404			5
5.35	5.37	5.39	2198948	69.099471			6
Height Summation:			**12776517**				
Amount Avg CF:			**66.0909**	Linear:			
Aroclor-1262					6	31.02	
4.71	4.73	4.75	936179.8	28.372615			1
4.90	4.92	4.94	1288214	39.247797			2
5.09	5.11	5.13	3465090	55.502193			3
5.31	5.33	5.35	634212.2	24.515482			4
5.35	5.37	5.39	2198948	52.808309			5
5.73	5.75	5.77	931544.7	41.337123			6
Height Summation:			**9454188.7**				
Amount Avg CF:			**40.297253**	Linear:			
Aroclor-1268					6	90.11	
5.31	5.33	5.35	634212.2	7.527453			1
5.35	5.37	5.39	2198948	25.778122			2
5.51	5.53	5.55	232250.9	3.169153			3
5.57	5.59	5.61	240414.8	13.568542			4
5.73	5.75	5.77	931544.7	32.442806			5
5.93	5.95	5.97	322800.4	1.479208			6
Height Summation:			**4560171**				
Amount Avg CF:			**13.994214**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.0982	9.725		** 63.12	4	40	
Aroclor-1221			50.0982	15.0295		28.93	3	5	
Aroclor-1232			50.0982	12.0825		** 71.33	4	10	
Aroclor-1242			50.0982	12.0825		** 64.15	4	30	
Aroclor-1248			50.0982	9.725		25.41	4	40	
Aroclor-1254			50.0982	12.9666		8.67	4	40	
Aroclor-1260			50.0982	11.4931		4.94	4	40	
Aroclor-1262			50.0982	9.725		12.21	4	40	
Aroclor-1268			50.0982	9.725		4.63	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998242 RI ACF AB42A07 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:49:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.017.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.007		7411	4014
2.038		3155	2812
2.103		10362	11539
2.131		172594	116311
2.199		7548	5287
2.219		8840	6063
2.311		53130	34512
2.389		27116	20081
2.424		1995	1182
2.457		1457	2655
2.539		930	510
2.564		2176	1417
2.588		1206	1202
2.626		1839	1707
2.651		4235	3504
2.7		1508	1266
2.744		19615	16803
2.783		1141	777
2.828		3828	2996
2.876		1976	1637
2.925	TCX	3265821	2138626
3.039		1937	1326
3.107		2460	1272
3.125		5159	3204
3.193		2796	3209
3.23		27625	28056
3.335		2201	1341
3.399		1386	852
3.45		1398	1007
3.486		1176	889
3.515		4797	3931
3.588		15599	11652
3.623		1002	766
3.658		9781	7350
3.701		32708	24226
3.736		46270	34055
3.792		3731	3075
3.819		4282	3447
3.855		48050	34221
3.882		38329	24790
3.904		51470	34262
3.979		4890	3461
4.002		1990	1293
4.034		4162	3024
4.069		12128	11875
4.112		20834	15871
4.137		3924	2773
4.192		3589	2455
4.228		54668	41657
4.248		11667	6079
4.271		33064	24467
4.296		3163	2040
4.339		27851	23113
4.381		124360	129211

RT A	Compound A	Height A	Area A
4.416		52324	43119
4.455		8745	6813
4.479		5489	3484
4.52		40822	38373
4.573		53004	58245
4.604		15831	9679
4.635		174897	151793
4.68		94214	109037
4.719		30032	20233
4.756		238364	227829
4.808		12393	11607
4.848		123255	124110
4.878		7033	4294
4.904		60928	55562
4.957		350668	458752
5.006		51984	46582
5.049		208222	209865
5.093		12784	9119
5.129		40596	56848
5.165		454487	431415
5.227		166778	156892
5.27		127080	122775
5.392		212778	319177
5.432		11706	10546
5.45		83227	68506
5.491		64132	59814
5.53		20650	20728
5.576		82720	77048
5.601		6451	3404
5.631		534653	577434
5.838		319097	331746
5.889		88922	170285
6.023		34049	35642
6.087		29879	23600
6.109		55065	43944
6.177		909	883
6.266		144729	142359
6.311		9325	9636
6.465		49296	51400
6.611	DCB	2084530	2247189
7.093		524	2891
7.723		2604	4894
8.024		935	864
8.682		3793	3993

LANCASTER LABORATORIES

Sample Number: 8998242 RI ACF AB42A07 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:49:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.017.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		15819	14587
2.054		25234	12853
2.115		204024	124425
2.14		10532	6316
2.158		11024	6721
2.185		17931	15283
2.213		6191	2787
2.238		13454	13435
2.267		2575	1346
2.316		11114	10172
2.351		8739	6522
2.365		20172	10226
2.399		17364	13941
2.434		115443	65764
2.461		50130	26998
2.511		4799	2668
2.535		5852	4036
2.555		5097	2387
2.57		7519	4101
2.591		16949	10173
2.616	TCX	19644400	11523070
2.677		4486	2732
2.694		4150	2774
2.735		17928	10249
2.785		11886	38326
2.843		20054	27593
2.879		7686	4659
2.922		178180	138994
2.949		22493	20169
2.991		6598	4762
3.019		10614	5856
3.088		3868	3065
3.108		5045	2198
3.12		9235	4081
3.147		11829	6829
3.182		13168	21524
3.226		29722	17155
3.245		105872	57249
3.266		7770	5693
3.321		97036	75794
3.364		5440	5580
3.384		14963	9750
3.405		222400	138262
3.435		317834	198046
3.483		43407	33878
3.527		344184	207764
3.55		295639	159113
3.568		389770	215592
3.594		30630	21362
3.653		42487	27932
3.675		24081	13657
3.704		77554	66446
3.727		9185	4025
3.741		172163	103653

RT B	Compound B	Height B	Area B
3.78		37185	26084
3.808		9347	5183
3.825		21549	16642
3.853		30257	17545
3.875		493405	320168
3.9		116976	66058
3.92		117512	63078
3.938		173344	105148
3.974		851140	595830
4.005		363487	232900
4.023		69644	33244
4.045		45806	25630
4.085		49990	59093
4.119		231942	178222
4.14		21191	17223
4.175		381301	280680
4.21		193312	182742
4.236		1028178	1079331
4.274		299505	290232
4.327		1785835	1471133
4.364		103896	97380
4.397		702544	480971
4.421		476245	329504
4.464		2382142	1844949
4.517		8307	9060
4.566		1656288	1569039
4.617		645207	552131
4.658		520102	451753
4.694		2727595	2333347
4.727		936180	661945
4.765		783431	624096
4.839		271695	238605
4.865		155523	96329
4.881		60898	33883
4.916		1288214	984717
4.94		415681	291434
4.99		747216	689127
5.026		421320	335604
5.056		315827	274553
5.087		172420	104321
5.11		3465090	2875414
5.151		72697	53598
5.184		227843	184934
5.302		31048	19145
5.326		634212	519209
5.369		2198948	2456371
5.526		232251	200372
5.571		72383	51407
5.594		240415	196105
5.643		445848	384261
5.722		2423	1559
5.749		931545	780463
5.781		53977	41329
5.949		322800	283044
5.98		4866	5329
6.065		1473	939
6.108	DCB	14616250	12500600
6.283		7619	6076
6.306		4508	4353
6.786		16847	18572
6.917		2111	5768
7.016		1890	1377
7.072		2085	3893
7.127		2014	3275
7.249		1954	1972
7.309		2319	4182

RT B	Compound B	Height B	Area B
7.433		2735	14995
7.552		6107	9552
8.212		19566	37497
8.348		1365	785

8998242 RI ACF AB42A07 T 171380028A 10225 SW-846 8082

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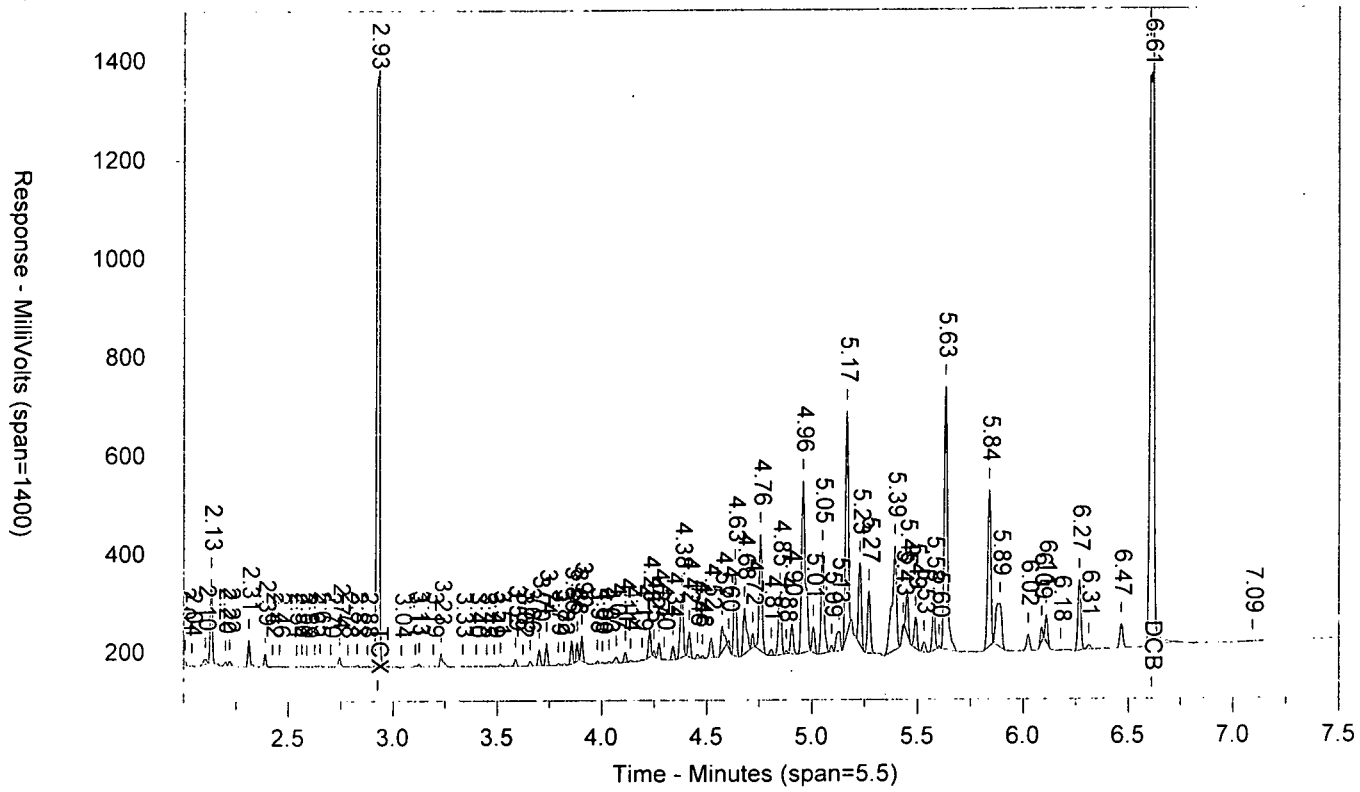

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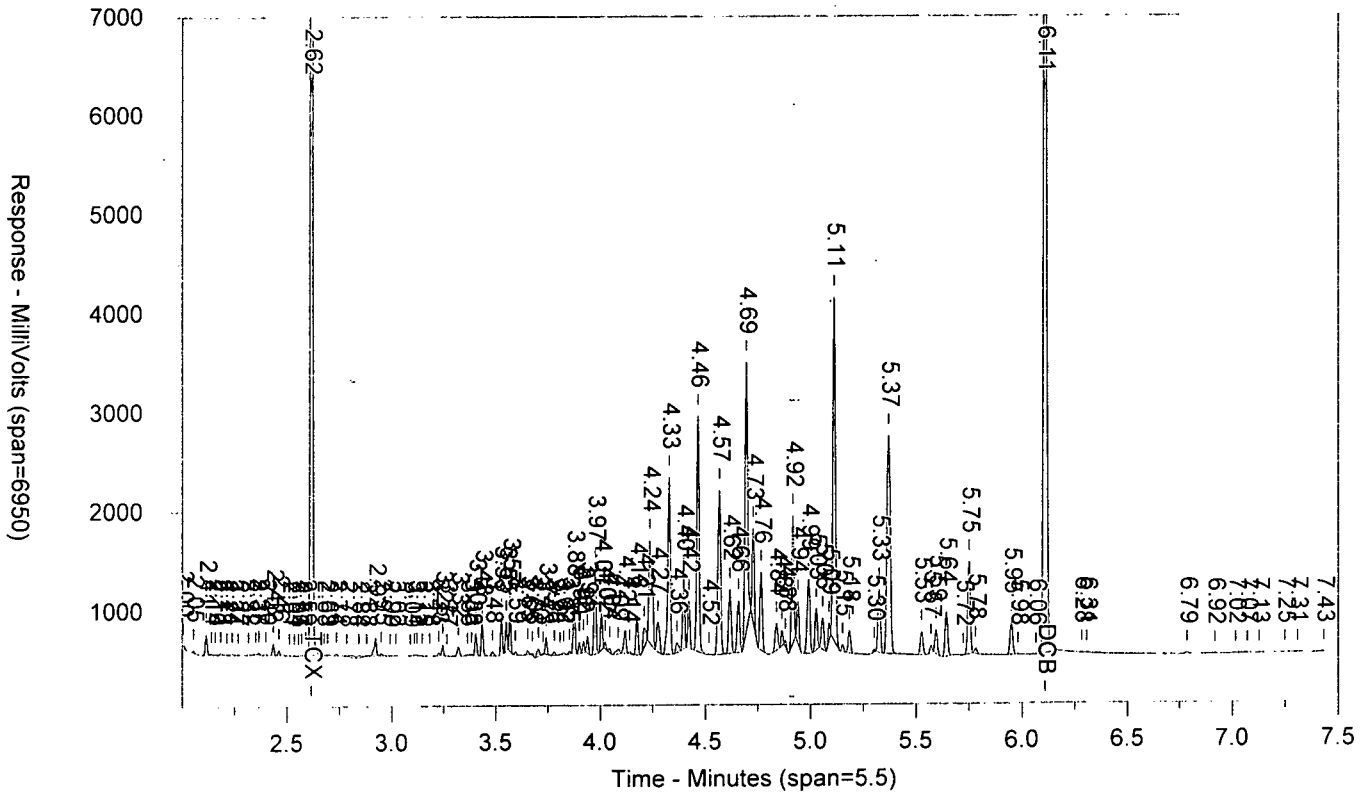

LANCASTER LABORATORIES

Sample Number: 8998242 RI ACF AB42A07 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 4:49:37 PM Sample Weight: 10.18
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3265821	28.23	TCX	2.616	19644400	27.914	TCX
6.611	2084530	29.756	DCB	6.108	14616250	29.471	DCB

Files:
Area File: 20pcbs17137004.017.RAW
Area File: 20pcbs17137004B.017.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 4:58:22 PM
File Reported On: 5/21/2017 at 4:58:32 PM

8998242 RI ACF AB42A07 T 171380028A 10225 SW-846 8082

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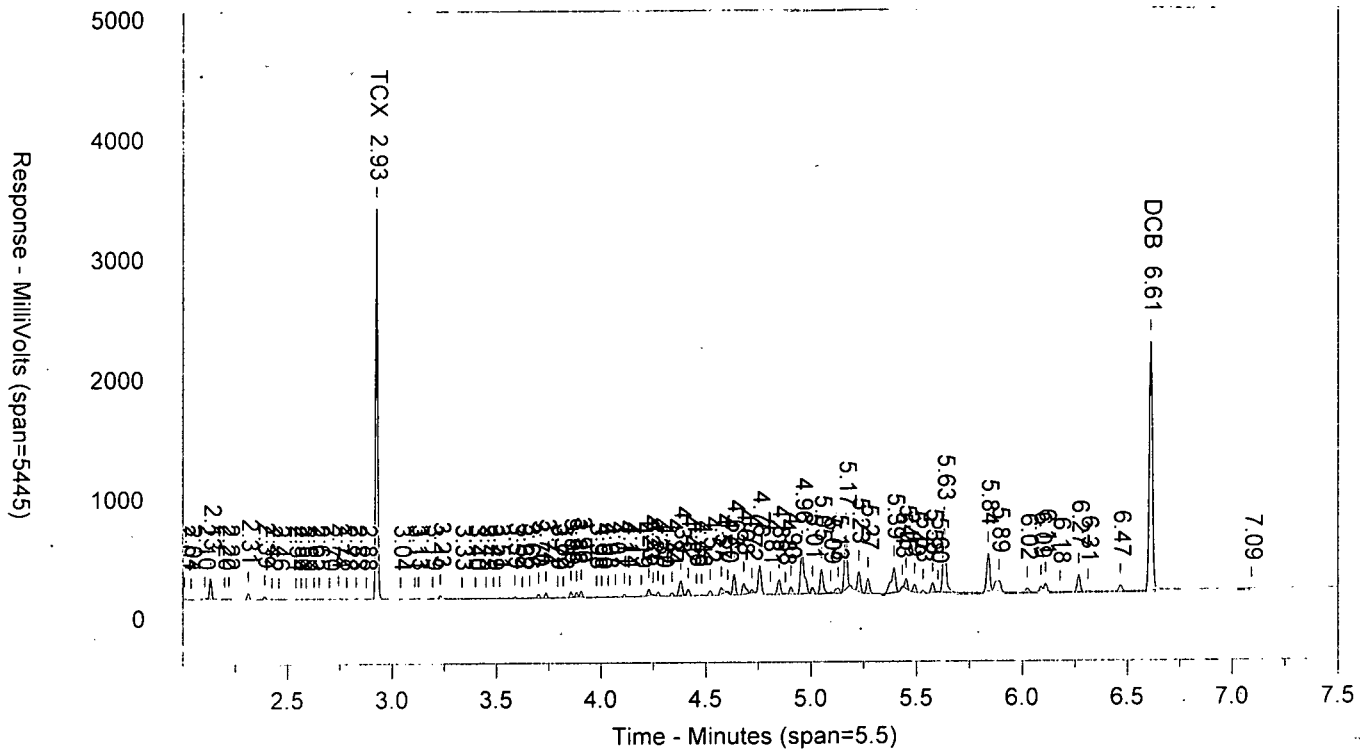

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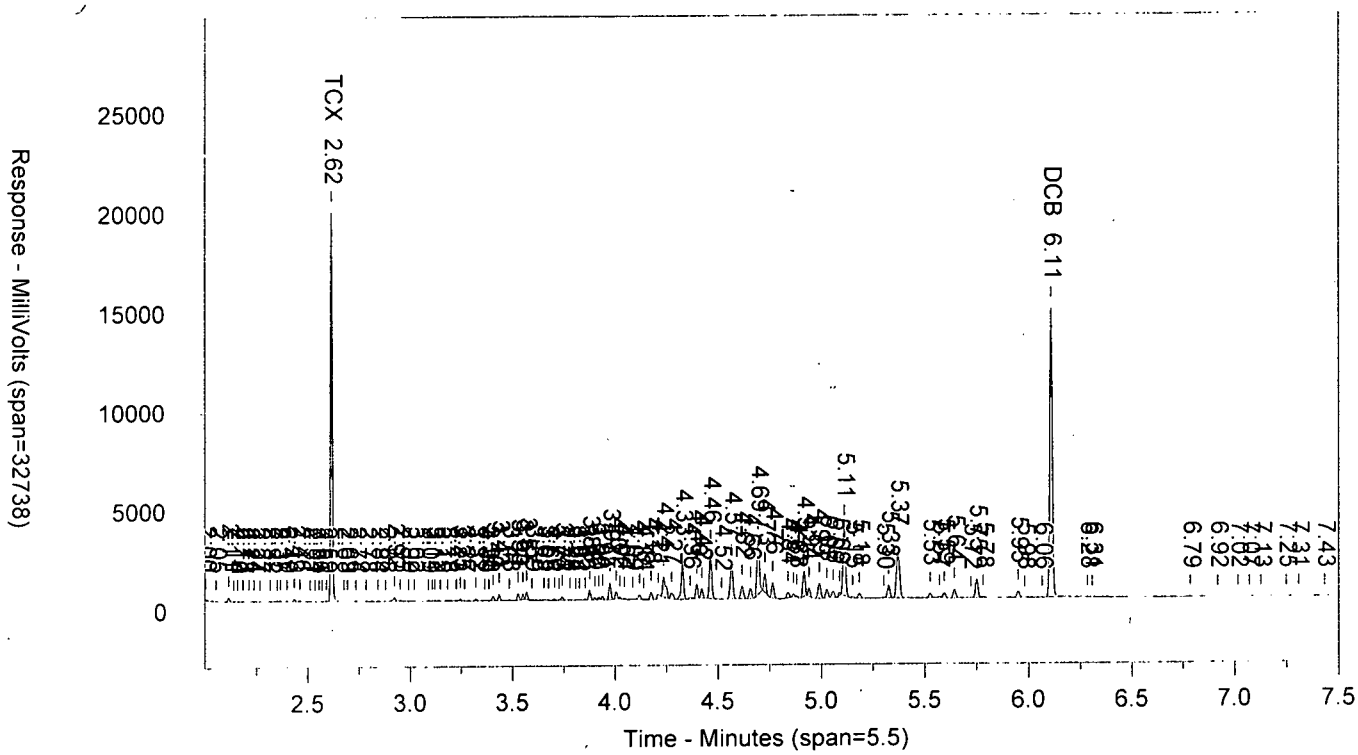

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Data Summary

Sample Name: 8998243 RI ACF 42A08 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 17:01:06
Instrument	17342A
Result file	20PCBS17137004.018.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 102% (61 - 152) Conc: 28.59952
%SSR(DCB) 102% (48 - 164) Conc: 28.74839

Analysis Report (B)

Injected on	May 21, 2017 17:01:06
Instrument	17342B
Result file	20PCBS17137004B.018.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 101% (61 - 152) Conc: 28.21021
%SSR(DCB) 103% (48 - 164) Conc: 28.82749

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3389816	28.59952
Decachlorobiphenyl	6.58	6.61	6.64	2063430	28.74839

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20340550	28.21021
Decachlorobiphenyl	6.08	6.11	6.14	14648030	28.82749

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	28.59952				1.37	
☑ Decachlorobiphenyl	B	28.82749				0.27	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**14.22**	
4.73	4.76	4.77	769934.1	176.141029			1
5.03	5.05	5.07	619753.8	256.603857			2
5.20	5.23	5.24	509468.4	180.151167			3
5.37	5.39	5.41	652925.7	202.347346			4
5.61	5.63	5.65	1723993	220.40365			5
5.82	5.84	5.86	909470.4	206.975539			6

Height summation: **5185545.4**
Concentration CF: **207.103765** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.24**	
4.31	4.33	4.35	5180386	175.917693			1
4.44	4.46	4.48	6915914	199.152619			2
4.55	4.57	4.59	5078420	181.761831			3
4.90	4.92	4.94	3783156	176.150697			4
5.09	5.11	5.13	10444950	214.302699			5
5.35	5.37	5.39	6946510	213.054102			6

Height summation: **38349336**
Concentration CF: **193.38994** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<48.8974	<9.4919			4	
☑ PCB-1221			<48.8974	<14.6692			3	
☑ PCB-1232			<48.8974	<11.7929			4	
☑ PCB-1242			<48.8974	<11.7929			4	
☑ PCB-1248			<48.8974	<9.4919			4	
☑ PCB-1254			<48.8974	<12.6558			4	
☑ PCB-1260	A	207.103765	48.8974	11.2176		6.85	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998243** RI ACF 42A08 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:01:06
Instrument : CP20--17342A
Result file : 20PCBS17137004.018.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 102% (61-152) Conc.: 28.59952
%SSR(DCB) : 102% (48-164) Conc.: 28.74839

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**83.83**	
3.16	3.19	3.20	4174.918	1.950801			1
3.37	3.40	3.41	1942.718	0.888996			2
3.49	3.51	3.53	1595.632	0.648555			3
3.71	3.73	3.75	11344.62	4.161899			4
3.76	3.79	3.80	5923.047	2.656648			5
3.96	3.98	4.00	12787.18	7.152956			6
Height Summation:			**37768.115**				
Amount Avg CF:			**2.909976**	Linear:			
Aroclor-1221					**3**	**91.29**	
3.06	3.07	3.10	1446.952	1.411407			1
3.11	3.13	3.15	5523.185	6.231844			2
3.16	3.19	3.20	4174.918	1.458133			3
Height Summation:			**11145.055**				
Amount Avg CF:			**3.033795**	Linear:			
Aroclor-1232					**6**	**99.25**	
3.16	3.19	3.20	4174.918	1.625549			1
3.38	3.40	3.42	1942.718	1.87983			2
+ 3.38	3.41	3.42	1267.918	1.226874			2
3.49	3.51	3.53	1595.632	1.407141			3
+ 3.49	3.53	3.53	1397.433	1.232355			3
3.71	3.73	3.75	11344.62	9.222437			4
3.77	3.79	3.81	5923.047	6.141753			5
3.96	3.98	4.00	12787.18	17.152713			6
Height Summation:			**37768.115**				
Amount Avg CF:			**6.238237**	Linear:			
Aroclor-1242					**6**	**85.12**	
3.16	3.19	3.20	4174.918	2.277163			1
3.38	3.40	3.42	1942.718	1.073074			2
+ 3.38	3.41	3.42	1267.918	0.700343			2
3.49	3.51	3.53	1595.632	0.804897			3
+ 3.49	3.53	3.53	1397.433	0.704918			3
3.71	3.73	3.75	11344.62	5.087043			4
3.77	3.79	3.81	5923.047	3.392245			5
3.96	3.98	4.00	12787.18	8.958452			6
Height Summation:			**37768.115**				
Amount Avg CF:			**3.598813**	Linear:			
Aroclor-1248					**6**	**177.04**	
3.76	3.79	3.80	5923.047	4.89314			1
3.83	3.86	3.87	27223.43	12.366574			2
3.96	3.98	4.00	12787.18	4.93232			3
4.05	4.07	4.09	14751.32	6.844677			4
4.23	4.23	4.27	157765.5	61.795611			5
+ 4.23	4.25	4.27	33513.03	13.126813			5
4.61	4.63	4.65	529167.1	282.749679			6
Height Summation:			**747617.577**				
Amount Avg CF:			**62.263667**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:01:06
Instrument : CP20--17342B
Result file : 20PCBS17137004B.018.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 101% (61-152) Conc.: 28.21021
%SSR(DCB) : 103% (48-164) Conc.: 28.82749

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**63.46**	
2.88	2.91	2.92	126066.6	10.689181			1
+ 3.21	3.23	3.25	9475.88	0.646539			2
3.21	3.24	3.25	220038	15.013175			2
+ 3.40	3.40	3.44	31112.65	2.112609			3
3.40	3.43	3.44	50131.47	3.404023			3
3.47	3.49	3.51	31558.91	1.812041			4
3.63	3.65	3.67	115768.6	7.911557			5
+ 3.72	3.73	3.76	54359.35	4.335273			6
3.72	3.74	3.76	85028.59	6.78121			6
Height Summation:			**628592.17**				
Amount Avg CF:			**7.601864**	Linear:			
Aroclor-1221					**3**	**24.09**	
2.77	2.79	2.81	34965.23	5.617671			1
2.83	2.84	2.87	19609.63	5.110883			2
2.88	2.91	2.92	126066.6	7.920493			3
Height Summation:			**180641.46**				
Amount Avg CF:			**6.216349**	Linear:			
Aroclor-1232					**6**	**69.46**	
2.88	2.91	2.92	126066.6	8.749354			1
+ 3.21	3.23	3.25	9475.88	1.360738			2
3.21	3.24	3.25	220038	31.597484			2
+ 3.40	3.40	3.44	31112.65	4.993837			3
3.40	3.43	3.44	50131.47	8.046515			3
3.47	3.49	3.51	31558.91	4.123039			4
3.66	3.68	3.70	34443.33	16.477247			5
+ 3.73	3.73	3.77	54359.35	9.91884			6
3.73	3.74	3.77	85028.59	15.514994			6
Height Summation:			**547266.9**				
Amount Avg CF:			**14.084772**	Linear:			
Aroclor-1242					**6**	**61.60**	
2.88	2.91	2.92	126066.6	12.431703			1
+ 3.21	3.23	3.25	9475.88	0.782433			2
3.21	3.24	3.25	220038	18.16875			2
+ 3.40	3.40	3.44	31112.65	2.612417			3
3.40	3.43	3.44	50131.47	4.209359			3
3.47	3.49	3.51	31558.91	2.318542			4
3.64	3.65	3.68	115768.6	10.330013			5
+ 3.73	3.73	3.77	54359.35	5.415135			6
3.73	3.74	3.77	85028.59	8.470324			6
Height Summation:			**628592.17**				
Amount Avg CF:			**9.321448**	Linear:			
Aroclor-1248					**6**	**163.38**	
+ 3.40	3.40	3.44	31112.65	5.356506			1
3.40	3.43	3.44	50131.47	8.63088			1
3.51	3.53	3.55	208840.7	12.748154			2
3.63	3.65	3.67	115768.6	5.656309			3
+ 3.72	3.73	3.76	54359.35	3.678243			4
3.72	3.74	3.76	85028.59	5.753487			4
3.86	3.88	3.90	1387860	49.580526			5
4.22	4.24	4.26	2486678	200.921483			6
+ 4.22	4.25	4.26	612326.9	49.475497			6
Height Summation:			**4334307.36**				
Amount Avg CF:			**47.21514**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998243** RI ACF 42A08 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:01:06
Instrument : CP20--17342A
Result file : 20PCBS17137004.018.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	97.89	
4.21	4.23	4.25	157765.5	52.412012			1
4.55	4.57	4.59	92576.84	30.603221			2
+ 4.55	4.59	4.59	22597.18	7.469973			2
4.61	4.63	4.65	529167.1	86.610913			3
4.73	4.76	4.77	769934.1	419.841158			4
4.83	4.85	4.87	372269.5	92.202038			5
5.14	5.17	5.18	1480201	356.891712			6
Height Summation:			**3401914.04**				
Amount Avg CF:			**173.093509**	Linear:			
Aroclor-1260					6	14.22	
4.73	4.76	4.77	769934.1	176.141029			1
5.03	5.05	5.07	619753.8	256.603857			2
5.20	5.23	5.24	509468.4	180.151167			3
5.37	5.39	5.41	652925.7	202.347346			4
5.61	5.63	5.65	1723993	220.40365			5
5.82	5.84	5.86	909470.4	206.975539			6
Height Summation:			**5185545.4**				
Amount Avg CF:			**207.103765**	Linear:			
Aroclor-1262					6	30.17	
5.21	5.23	5.24	509468.4	97.845697			1
5.37	5.39	5.41	652925.7	155.222114			2
5.61	5.63	5.65	1723993	169.571406			3
5.81	5.84	5.85	909470.4	161.866855			4
5.87	5.88	5.91	211457.8	75.971545			5
6.25	6.27	6.29	375470.4	110.881766			6
Height Summation:			**4382785.7**				
Amount Avg CF:			**128.559897**	Linear:			
Aroclor-1268					6	106.02	
5.81	5.84	5.85	909470.4	72.792491			1
5.87	5.88	5.91	211457.8	19.397649			2
6.00	6.02	6.04	41727.86	4.105067			3
6.07	6.09	6.11	47875.86	20.54383			4
6.25	6.27	6.29	375470.4	89.42688			5
6.45	6.47	6.49	94596.14	2.878994			6
Height Summation:			**1680598.46**				
Amount Avg CF:			**34.857485**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:01:06
Instrument : CP20--17342B
Result file : 20PCBS17137004B.018.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	93.91	
4.16	4.18	4.19	1064710	48.829477			1
4.22	4.24	4.26	2486678	64.2733			2
+ 4.22	4.25	4.26	612326.9	15.826846			2
4.31	4.33	4.35	5180386	287.836295			3
4.38	4.40	4.42	2072122	79.672001			4
4.44	4.46	4.48	6915914	461.760381			5
4.60	4.62	4.64	2045518	112.105598			6
Height Summation:			**19765328**				
Amount Avg CF:			**175.746175**	Linear:			
Aroclor-1260					6	9.24	
4.31	4.33	4.35	5180386	175.917693			1
4.44	4.46	4.48	6915914	199.152619			2
4.55	4.57	4.59	5078420	181.761831			3
4.90	4.92	4.94	3783156	176.150697			4
5.09	5.11	5.13	10444950	214.302699			5
5.35	5.37	5.39	6946510	213.054102			6
Height Summation:			**38349336**				
Amount Avg CF:			**193.38994**	Linear:			
Aroclor-1262					6	35.83	
4.71	4.73	4.75	2757204	81.559107			1
4.90	4.92	4.94	3783156	112.498049			2
5.09	5.11	5.13	10444950	163.292206			3
5.31	5.33	5.35	1669098	62.972532			4
5.35	5.37	5.39	6946510	162.82363			5
5.73	5.75	5.77	2483857	107.578777			6
Height Summation:			**28084775**				
Amount Avg CF:			**115.120717**	Linear:			
Aroclor-1268					6	110.15	
5.31	5.33	5.35	1669098	19.33565			1
5.35	5.37	5.39	6946510	79.481571			2
5.51	5.53	5.55	301362.2	4.013636			3
5.57	5.59	5.61	268404.3	14.785122			4
5.73	5.75	5.77	2483857	84.43155			5
5.93	5.95	5.97	622378.1	2.78364			6
Height Summation:			**12291609.6**				
Amount Avg CF:			**34.138528**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			48.8974	9.4919		** 89.27	4	40	
Aroclor-1221			48.8974	14.6692		** 68.81	3	5	
Aroclor-1232			48.8974	11.7929		** 77.22	4	10	
Aroclor-1242			48.8974	11.7929		** 88.58	4	30	
Aroclor-1248			48.8974	9.4919		27.49	4	40	
Aroclor-1254			48.8974	12.6558		1.52	4	40	
Aroclor-1260			48.8974	11.2176		6.85	4	40	
Aroclor-1262			48.8974	9.4919		11.03	4	40	
Aroclor-1268			48.8974	9.4919		2.08	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998243 RI ACF AB42A08 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:01:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.018.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.007		8161	4207
2.038		5312	5201
2.103		8513	10637
2.131		272865	179041
2.199		31399	20352
2.219		8336	5134
2.284		1487	937
2.311		82155	54883
2.389		73056	49979
2.424		3683	2806
2.504		938	756
2.568		2731	2237
2.586		1340	1098
2.627		3012	2167
2.649		13945	8907
2.698		1674	1225
2.743		13942	13767
2.783		1294	680
2.802		1037	510
2.828		5314	4443
2.873		2136	1766
2.925	TCX	3389816	2186107
3.039		5710	3612
3.073		1447	1908
3.108		3849	2185
3.125		5523	3691
3.19		4175	5912
3.23		24127	11932
3.244		24590	12426
3.335		2584	1544
3.398		1943	1210
3.415		1268	604
3.451		3205	1673
3.468		2852	1589
3.512		1596	857
3.531		1397	797
3.588		32147	22349
3.627		1095	601
3.657		22155	15365
3.699		5764	7320
3.733		11345	8797
3.792		5923	5705
3.855		27223	20606
3.888		7597	7092
3.904		10334	5490
3.98		12787	9016
4.002		2860	1720
4.035		5319	3712
4.069		14751	17608
4.111		5674	4468
4.138		2643	1739
4.191		6851	4664
4.228		157766	122893
4.248		33513	18615

RT A	Compound A	Height A	Area A
4.272		68114	52044
4.298		2236	1295
4.339		62890	53149
4.382		315548	309086
4.416		139928	115290
4.456		17063	12882
4.48		17026	12311
4.521		122935	115667
4.575		92577	69093
4.589		22597	9387
4.604		50868	30106
4.635		529167	470064
4.681		274851	307709
4.719		107340	78563
4.757		769934	701809
4.808		38532	35932
4.849		372270	365124
4.878		13888	8131
4.905		166201	158172
4.957		1108384	1351562
5.006		137732	127195
5.05		619754	648425
5.093		41829	28837
5.129		114554	147316
5.165		1480201	1354987
5.188		44392	19502
5.227		509468	445158
5.27		343783	349165
5.319		3858	4617
5.392		652926	948673
5.451		298456	319588
5.491		180554	164914
5.531		42142	39790
5.575		233192	217879
5.602		18485	10390
5.631		1723993	1703713
5.72		3163	2989
5.838		909470	948887
5.879		211458	446630
6.022		41728	52681
6.086		47876	35258
6.109		142575	124236
6.266		375470	369295
6.311		25352	24081
6.387		1229	1865
6.466		94596	97018
6.611	DCB	2063430	2221245
6.736		1199	563
6.822		773	559
6.887		926	1435
7.13		878	1688
7.518		623	3487
7.722		3170	5420
7.938		831	395
8.029		4470	7418
8.197		702	1213

LANCASTER LABORATORIES

Sample Number: 8998243 RI ACF AB42A08 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:01:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.018.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		12994	8149
2.054		25883	16551
2.115		551463	327060
2.141		8227	4416
2.157		20734	12386
2.183		18046	18700
2.214		7829	3957
2.237		14315	14596
2.282		5823	5919
2.319		13658	14979
2.352		5920	3758
2.365		85007	42217
2.397		15449	13031
2.434		78892	45201
2.461		62445	41359
2.514		4232	1792
2.533		9160	6689
2.57		12638	15111
2.591		18802	11073
2.616	TCX	20340550	11698400
2.677		5902	3313
2.693		5104	2335
2.736		29439	16185
2.755		3388	1459
2.785		34965	18691
2.81		17429	25306
2.838		19610	12956
2.877		15188	8944
2.912		126067	55108
2.922		132536	53977
2.949		18709	8592
2.963		6610	3498
2.993		7198	6065
3.018		14986	7612
3.069		4773	2209
3.089		8274	4956
3.107		10843	4421
3.12		23882	11521
3.146		29207	15748
3.182		21518	19748
3.228		9476	6125
3.245		220038	119916
3.265		23221	14320
3.32		196047	133108
3.364		11995	9496
3.384		22916	10174
3.404		31113	15598
3.434		50131	40863
3.493		31559	25712
3.527		208841	122801
3.551		149665	80293
3.568		111323	57677
3.591		26355	19529
3.654		115769	77583

RT B	Compound B	Height B	Area B
3.676		34443	19453
3.698		61393	47358
3.726		54359	28961
3.742		85029	46493
3.781		40093	33592
3.825		58404	55115
3.854		96310	55098
3.876		1387861	936054
3.901		307786	177629
3.921		182000	96298
3.939		349850	221659
3.974		2001367	1361378
4.006		926596	597743
4.024		202687	102855
4.044		32408	14970
4.084		123713	100543
4.119		674795	537483
4.14		26991	29300
4.175		1064710	768389
4.21		563360	513391
4.236		2486678	1350576
4.249		612327	251330
4.275		839765	826709
4.328		5180386	4122437
4.365		307101	264171
4.397		2072122	1458912
4.422		1306029	903759
4.464		6915915	5486346
4.519		13179	11922
4.566		5078420	4735940
4.617		2045518	1689092
4.658		1517551	1303576
4.696		8852987	7281462
4.727		2757204	1827513
4.766		2232721	1758201
4.84		315550	274127
4.865		482866	305820
4.882		199286	111734
4.916		3783156	2878428
4.94		1296062	902410
4.991		2176554	1914313
5.027		1194660	944983
5.055		845746	695766
5.088		505328	289904
5.11		10444950	8491149
5.151		207269	155239
5.183		421513	354635
5.225		6504	4138
5.248		16758	11605
5.282		5784	4661
5.302		86526	54261
5.326		1669098	1367117
5.37		6946511	7278414
5.444		11796	8088
5.469		4544	5545
5.525		301362	254933
5.57		226588	165596
5.595		268404	204684
5.643		1094771	946649
5.686		6261	5504
5.722		3503	2085
5.75		2483857	2076059
5.78		147660	110556
5.858		4390	3652
5.948		622378	538467
5.98		4618	6425

RT B	Compound B	Height B	Area B
6.065		1963	1566
6.107	DCB	14648030	12590770
6.282		16289	13236
6.31		31625	28322
6.443		2927	2916
6.582		6205	10611
6.784		20388	21208
7.009		4864	4956
7.301		5688	27731
7.425		2574	12294
7.461		3121	2951
7.553		23393	30857
7.592		1917	3454
7.847		2813	4619
7.899		1651	1097
8.212		17444	30649
8.266		1364	1829
8.433		4574	9136

8998243 RI ACF AB42A08 T 171380028A 10225 SW-846 8082

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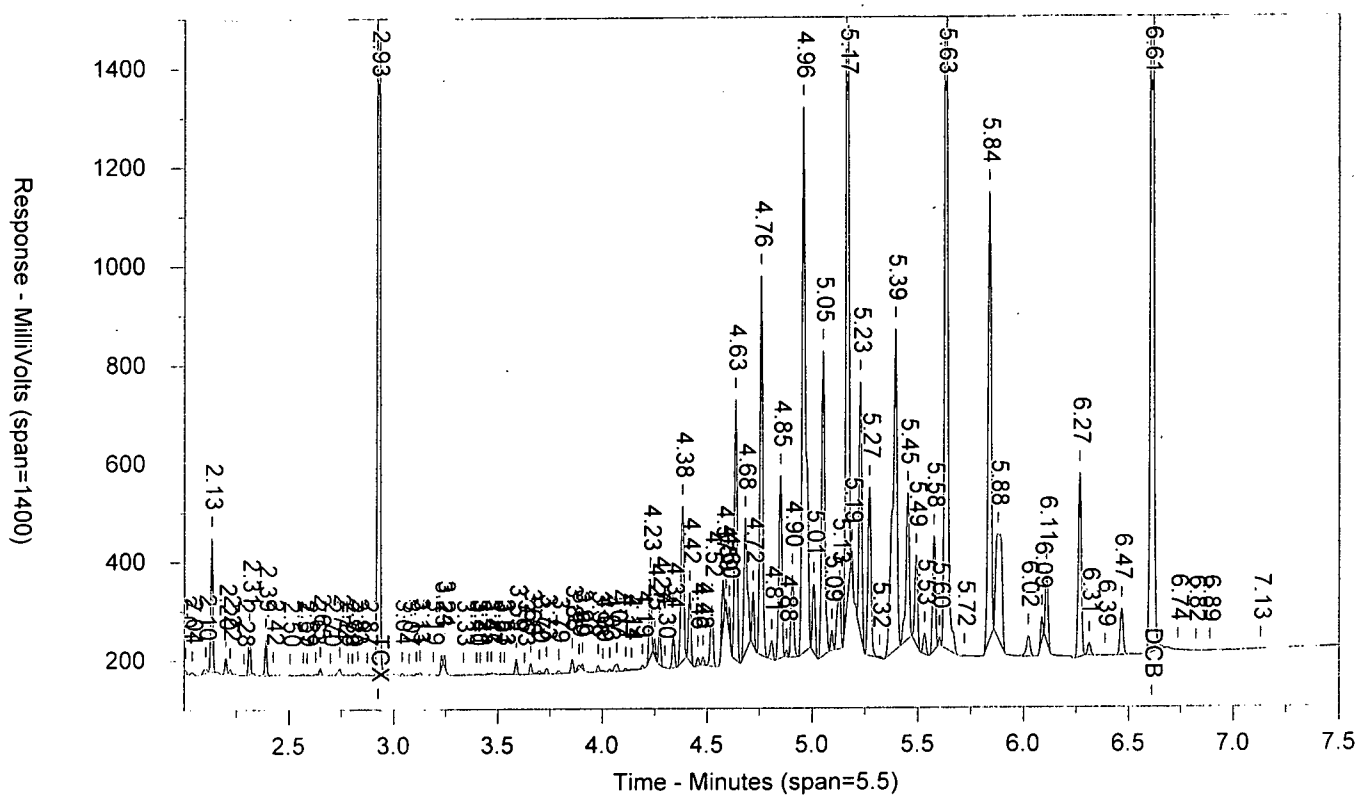

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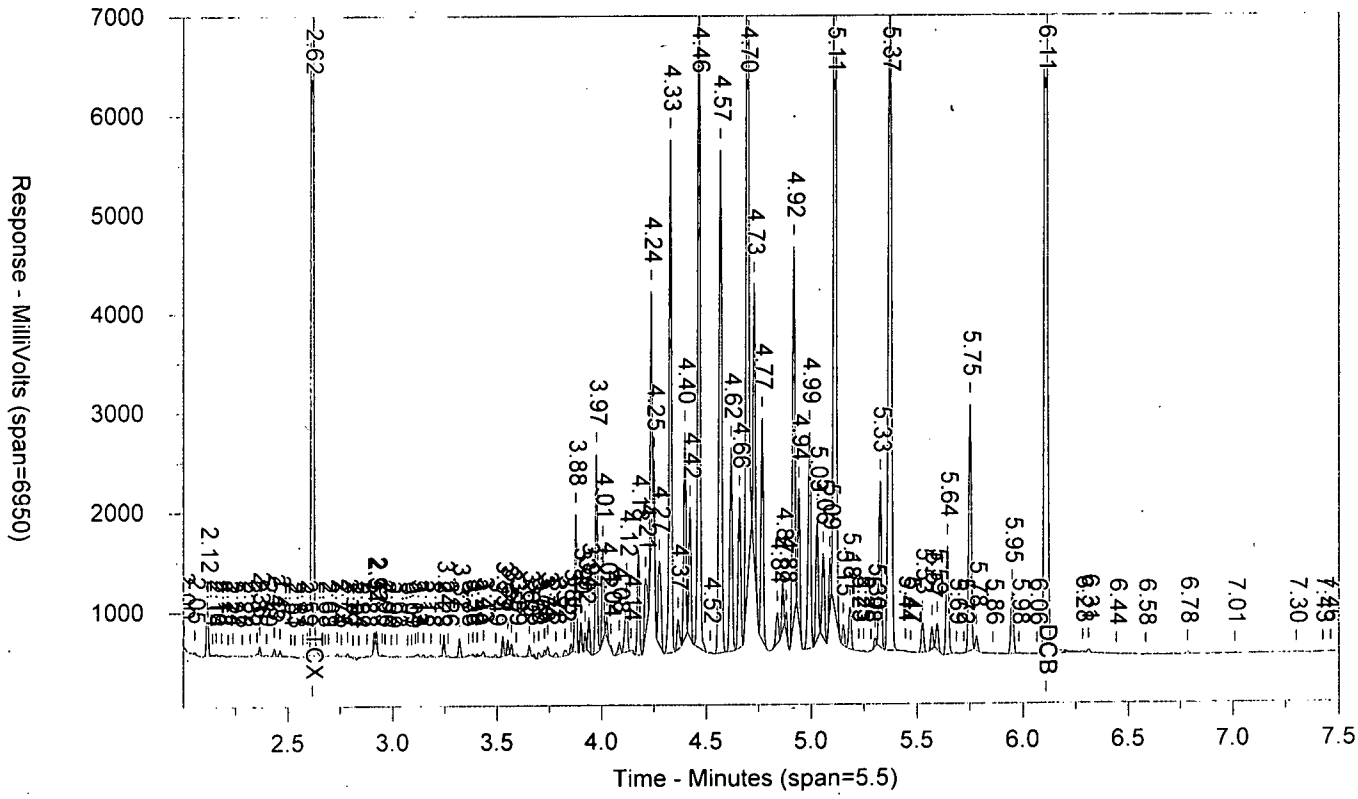

LANCASTER LABORATORIES

Sample Number: 8998243 RI ACF AB42A08 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:01:06 PM Sample Weight: 10.43
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3389816	28.6	TCX	2.616	20340550	28.21	TCX
6.611	2063430	28.748	DCB	6.107	14648030	28.827	DCB

Files:
Area File: 20pcbs17137004.018.RAW
Area File: 20pcbs17137004B.018.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 5:09:48 PM
File Reported On: 5/21/2017 at 5:09:58 PM

8998243 RI ACF AB42A08 T 171380028A 10225 SW-846 8082

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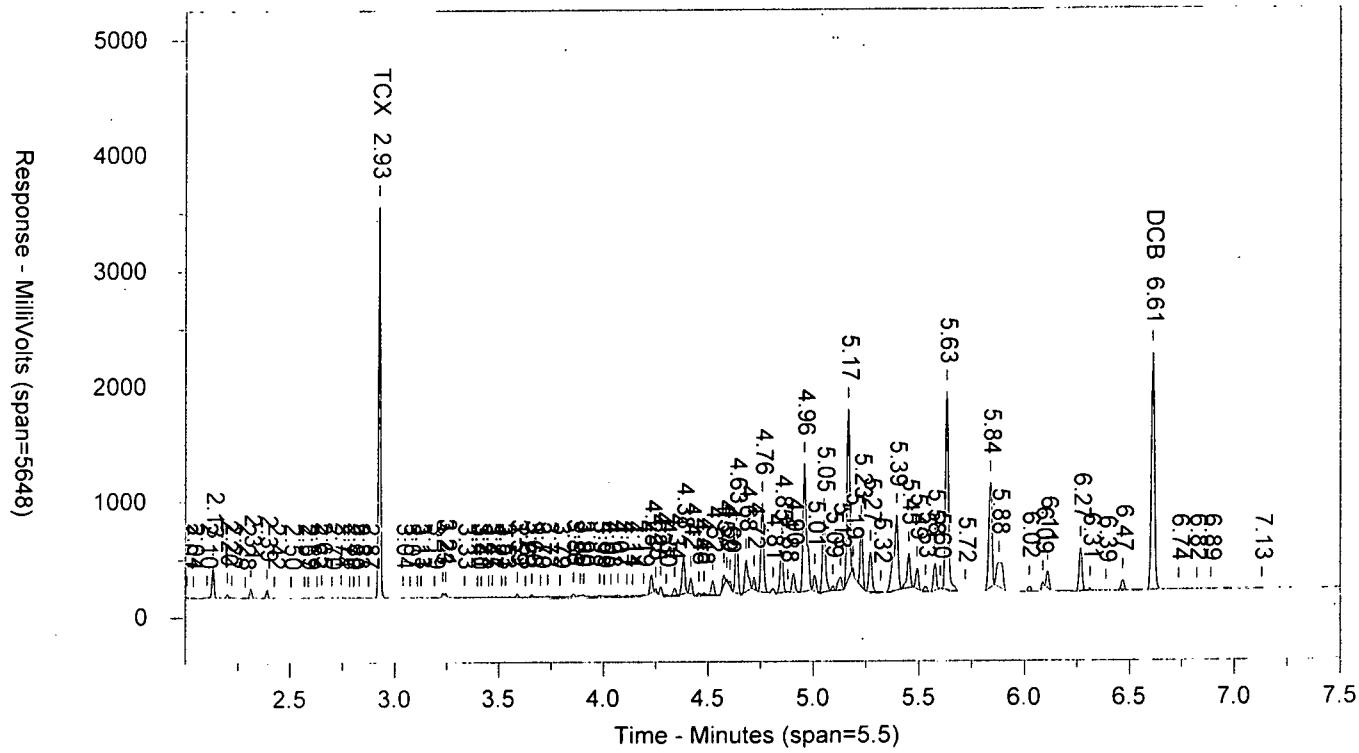

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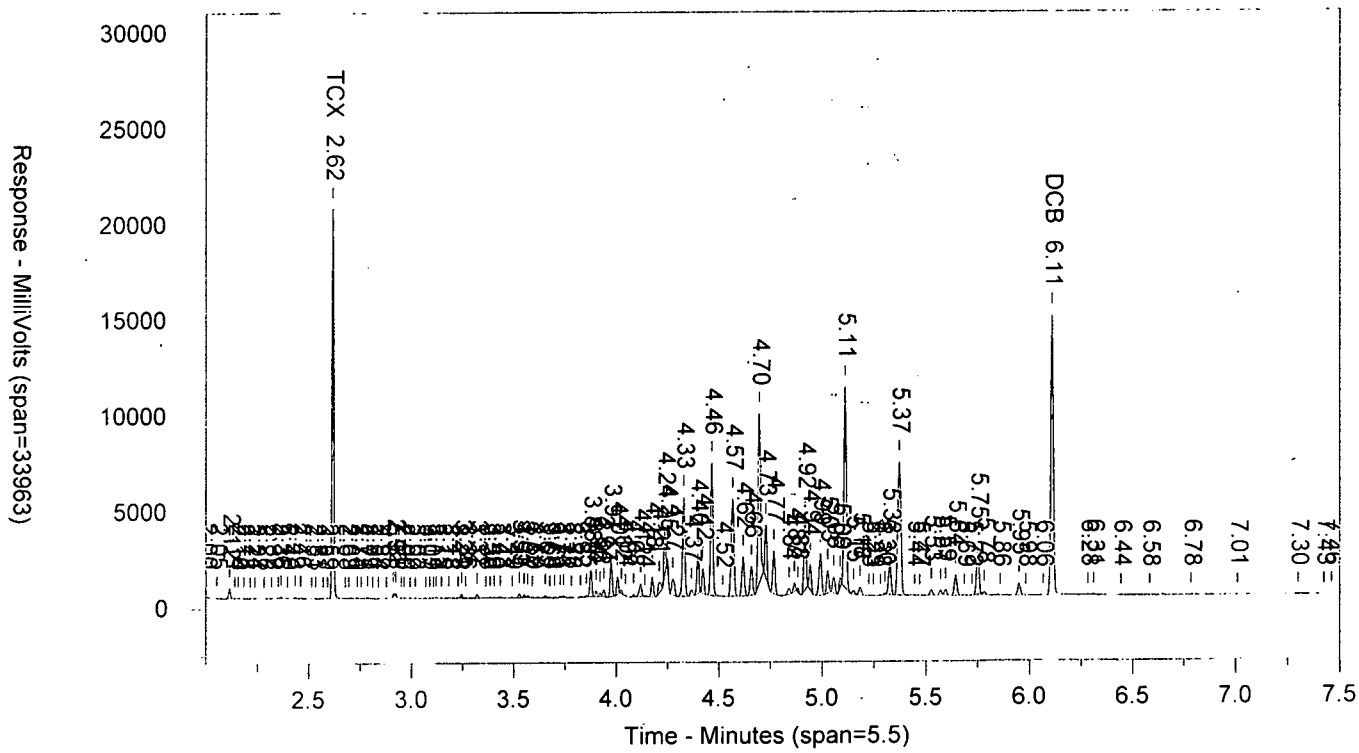

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Data Summary

Sample Name: 8998244 RI ACF 42A09 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.14 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 17:12:37
Instrument	17342A
Result file	20PCBS17137004.019.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 101% (61 - 152) Conc: 29.20301
%SSR(DCB) 102% (48 - 164) Conc: 29.46944

Analysis Report (B)

Injected on	May 21, 2017 17:12:37
Instrument	17342B
Result file	20PCBS17137004B.019.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 97% (61 - 152) Conc: 27.92957
%SSR(DCB) 93% (48 - 164) Conc: 26.93438

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3365106	29.20301
Decachlorobiphenyl	6.58	6.61	6.64	2056372	29.46944

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	19578270	27.92957
Decachlorobiphenyl	6.08	6.11	6.14	13305560	26.93438

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	29.20301				4.46	
☑	Decachlorobiphenyl	A	29.46944				8.99	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**13.84**	
4.73	4.76	4.77	981783.5	231.030361			1
5.03	5.05	5.07	635311.5	270.568387			2
5.20	5.23	5.24	798673.9	290.493001			3
5.37	5.39	5.41	793028.6	252.795276			4
5.61	5.63	5.65	2524650	331.994444			5
5.82	5.84	5.86	1371435	321.034743			6

Height summation: **7104882.5**
Concentration CF: **282.986035** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**16.51**	
4.31	4.33	4.35	6316924	220.6477			1
4.44	4.46	4.48	8312214	246.206496			2
4.55	4.57	4.59	5809564	213.876943			3
4.90	4.92	4.94	5082606	243.423731			4
5.09	5.11	5.13	15597300	329.16758			5
5.35	5.37	5.39	8531660	269.155419			6

Height summation: **49650268**
Concentration CF: **253.746312** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<50.2959	<9.7633			4	
☑	PCB-1221			<50.2959	<15.0888			3	
☑	PCB-1232			<50.2959	<12.1302			4	
☑	PCB-1242			<50.2959	<12.1302			4	
☑	PCB-1248			<50.2959	<9.7633			4	
☑	PCB-1254			<50.2959	<13.0178			4	
☑	PCB-1260	A	282.986035	50.2959	11.5385		10.90	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998244** RI ACF 42A09 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.14 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:12:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.019.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 101% (61-152) Conc.: 29.20301
%SSR(DCB) : 102% (48-164) Conc.: 29.46944

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**40.45**	
+ 3.16	3.16	3.20	905.1935	0.435064			1
3.16	3.19	3.20	3299.483	1.585833			1
3.37	3.39	3.41	2177.735	1.025042			2
3.49	3.49	3.53	4464.844	1.866668			3
3.71	3.73	3.75	4941.712	1.864771			4
3.76	3.79	3.80	7453.958	3.43892			5
3.96	3.98	4.00	3994.393	2.298307			6
Height Summation:			**26332.125**				
Amount Avg CF:			**2.013257**	Linear:			
Aroclor-1221					**3**	**71.09**	
3.06	3.08	3.10	2676.078	2.684994			1
3.11	3.12	3.15	4823.111	5.597584			2
+ 3.16	3.16	3.20	905.1935	0.32519			3
3.16	3.19	3.20	3299.483	1.185336			3
Height Summation:			**10798.672**				
Amount Avg CF:			**3.155971**	Linear:			
Aroclor-1232					**5**	**62.98**	
+ 3.16	3.16	3.20	905.1935	0.362527			1
3.16	3.19	3.20	3299.483	1.321431			1
3.38	3.39	3.42	2177.735	2.167506			2
+ 3.38	3.42	3.42	914.915	0.910618			2
3.71	3.73	3.75	4941.712	4.132183			4
3.77	3.79	3.81	7453.958	7.950245			5
3.96	3.98	4.00	3994.393	5.511314			6
Height Summation:			**21867.281**				
Amount Avg CF:			**4.216536**	Linear:			
Aroclor-1242					**5**	**47.56**	
+ 3.16	3.16	3.20	905.1935	0.507848			1
3.16	3.19	3.20	3299.483	1.851137			1
3.38	3.39	3.42	2177.735	1.237289			2
+ 3.38	3.42	3.42	914.915	0.519813			2
3.71	3.73	3.75	4941.712	2.279288			4
3.77	3.79	3.81	7453.958	4.391121			5
3.96	3.98	4.00	3994.393	2.878428			6
Height Summation:			**21867.281**				
Amount Avg CF:			**2.527452**	Linear:			
Aroclor-1248					**6**	**171.99**	
3.76	3.79	3.80	7453.958	6.333967			1
3.83	3.86	3.87	8461.48	3.953659			2
3.96	3.98	4.00	3994.393	1.584797			3
+ 4.05	4.06	4.09	3270.904	1.56112			4
4.05	4.08	4.09	39064.06	18.644289			4
4.23	4.23	4.27	124270.3	50.06789			5
+ 4.23	4.25	4.27	17048.55	6.868777			5
4.61	4.63	4.65	416620.9	228.979547			6
Height Summation:			**599865.091**				
Amount Avg CF:			**51.594025**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:12:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.019.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 97% (61-152) Conc.: 27.92957
%SSR(DCB) : 93% (48-164) Conc.: 26.93438

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**84.73**	
2.88	2.88	2.92	5545.671	0.483665			1
+ 3.21	3.23	3.25	6211.414	0.435925			2
3.21	3.24	3.25	108510.9	7.615432			2
3.40	3.43	3.44	20200.54	1.410884			3
+ 3.47	3.48	3.51	5341.899	0.315492			4
3.47	3.49	3.51	27624.17	1.631479			4
3.63	3.65	3.67	43747.34	3.07517			5
3.72	3.73	3.76	48369.05	3.967858			6
+ 3.72	3.74	3.76	33632.68	2.75899			6
Height Summation:			**253997.671**				
Amount Avg CF:			**3.030748**	Linear:			
Aroclor-1221					**3**	**84.21**	
2.77	2.79	2.81	23196.9	3.833506			1
2.83	2.84	2.87	22693.42	6.083771			2
2.88	2.88	2.92	5545.671	0.358387			3
Height Summation:			**51435.991**				
Amount Avg CF:			**3.425222**	Linear:			
Aroclor-1232					**6**	**193.08**	
2.88	2.88	2.92	5545.671	0.395892			1
+ 3.21	3.23	3.25	6211.414	0.91747			2
3.21	3.24	3.25	108510.9	16.027823			2
3.40	3.43	3.44	20200.54	3.335083			3
+ 3.47	3.48	3.51	5341.899	0.717856			4
3.47	3.49	3.51	27624.17	3.712197			4
3.66	3.68	3.70	302550.8	148.875823			5
+ 3.66	3.70	3.70	28020.86	13.788192			5
3.73	3.73	3.77	48369.05	9.078217			6
+ 3.73	3.74	3.77	33632.68	6.312399			6
Height Summation:			**512801.131**				
Amount Avg CF:			**30.237506**	Linear:			
Aroclor-1242					**6**	**82.62**	
2.88	2.88	2.92	5545.671	0.562511			1
+ 3.21	3.23	3.25	6211.414	0.527551			2
3.21	3.24	3.25	108510.9	9.216098			2
3.40	3.43	3.44	20200.54	1.744676			3
+ 3.47	3.48	3.51	5341.899	0.403678			4
3.47	3.49	3.51	27624.17	2.08751			4
3.64	3.65	3.68	43747.34	4.015208			5
3.73	3.73	3.77	48369.05	4.956201			6
+ 3.73	3.74	3.77	33632.68	3.446219			6
Height Summation:			**253997.671**				
Amount Avg CF:			**3.763701**	Linear:			
Aroclor-1248					**6**	**163.49**	
3.40	3.43	3.44	20200.54	3.577288			1
3.51	3.53	3.55	48293.19	3.032246			2
3.63	3.65	3.67	43747.34	2.19857			3
3.72	3.73	3.76	48369.05	3.366511			4
+ 3.72	3.74	3.76	33632.68	2.340852			4
3.86	3.87	3.90	860182.8	31.608405			5
+ 4.22	4.22	4.26	471707.2	39.203576			6
4.22	4.24	4.26	1224881	101.799835			6
+ 4.22	4.25	4.26	1113743	92.563158			6
Height Summation:			**2245673.92**				
Amount Avg CF:			**24.263809**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998244** RI ACF 42A09 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.14 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:12:37
Instrument : CP20--17342A
Result file : 20PCBS17137004.019.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	117.29	
4.21	4.23	4.25	124270.3	42.465134			1
+ 4.55	4.57	4.59	37132.47	12.625977			2
4.55	4.59	4.59	71396.94	24.276761			2
4.61	4.63	4.65	416620.9	70.14023			3
4.73	4.76	4.77	981783.5	550.67269			4
4.83	4.85	4.87	251499.5	64.071744			5
5.14	5.16	5.18	1686693	418.309921			6
Height Summation:			**3532264.14**				
Amount Avg CF:			**194.989413**	Linear:			
Aroclor-1260					6	13.84	
4.73	4.76	4.77	981783.5	231.030361			1
5.03	5.05	5.07	635311.5	270.568387			2
5.20	5.23	5.24	798673.9	290.493001			3
+ 5.37	5.37	5.41	39982.8	12.745395			4
5.37	5.39	5.41	793028.6	252.795276			4
5.61	5.63	5.65	2524650	331.994444			5
5.82	5.84	5.86	1371435	321.034743			6
Height Summation:			**7104882.5**				
Amount Avg CF:			**282.986035**	Linear:			
Aroclor-1262					6	44.50	
5.21	5.23	5.24	798673.9	157.775776			1
+ 5.37	5.37	5.41	39982.8	9.777085			2
5.37	5.39	5.41	793028.6	193.921085			2
E 5.61	5.63	5.65	2524650	255.425737			3
E 5.81	5.84	5.85	1371435	251.067756			4
+ 5.87	5.88	5.91	71723.59	26.505477			5
5.87	5.89	5.91	110971.2	41.009444			5
6.25	6.27	6.29	534972.6	162.503351			6
Height Summation:			**6133731.3**				
Amount Avg CF:			**176.950525**	Linear:			
Aroclor-1268					6	122.25	
5.81	5.84	5.85	1371435	112.906669			1
+ 5.87	5.88	5.91	71723.59	6.767586			2
5.87	5.89	5.91	110971.2	10.470852			2
6.00	6.02	6.04	52414.37	5.303846			3
6.07	6.09	6.11	48415.55	21.369583			4
6.25	6.27	6.29	534972.6	131.06003			5
6.45	6.47	6.49	145461.3	4.553667			6
Height Summation:			**2263670.02**				
Amount Avg CF:			**47.610774**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:12:37
Instrument : CP20--17342B
Result file : 20PCBS17137004B.019.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	122.62	
4.16	4.17	4.19	603748.4	28.480859			1
+ 4.22	4.22	4.26	471707.2	12.540935			2
4.22	4.24	4.26	1224881	32.565016			2
+ 4.22	4.25	4.26	1113743	29.610271			2
4.31	4.33	4.35	6316924	361.023474			3
4.38	4.40	4.42	1139939	45.083577			4
4.44	4.46	4.48	8312214	570.86071			5
4.60	4.62	4.64	1345264	75.836428			6
Height Summation:			**18942970.4**				
Amount Avg CF:			**185.641677**	Linear:			
Aroclor-1260					6	16.51	
4.31	4.33	4.35	6316924	220.6477			1
4.44	4.46	4.48	8312214	246.206496			2
4.55	4.57	4.59	5809564	213.876943			3
4.90	4.92	4.94	5082606	243.423731			4
5.09	5.11	5.13	15597300	329.16758			5
5.35	5.37	5.39	8531660	269.155419			6
Height Summation:			**49650268**				
Amount Avg CF:			**253.746311**	Linear:			
Aroclor-1262					6	33.55	
4.71	4.73	4.75	4280076	130.227108			1
4.90	4.92	4.94	5082606	155.461745			2
E 5.09	5.11	5.13	15597300	250.815787			3
5.31	5.32	5.35	2407808	93.441011			4
E 5.35	5.37	5.39	8531660	205.698281			5
5.73	5.75	5.77	3572664	159.16169			6
Height Summation:			**39472114**				
Amount Avg CF:			**165.800937**	Linear:			
Aroclor-1268					6	114.26	
5.31	5.32	5.35	2407808	28.690964			1
5.35	5.37	5.39	8531660	100.410625			2
5.51	5.52	5.55	326323.5	4.470375			3
5.57	5.59	5.61	258460.9	14.644571			4
5.73	5.75	5.77	3572664	124.915606			5
5.93	5.95	5.97	909187.2	4.182716			6
Height Summation:			**16006103.6**				
Amount Avg CF:			**46.219143**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.2959	9.7633		** 40.34	4	40	
Aroclor-1221			50.2959	15.0888		8.18	3	5	
Aroclor-1232			50.2959	12.1302		** 151.05	4	10	
Aroclor-1242			50.2959	12.1302		39.30	4	30	
Aroclor-1248			50.2959	9.7633		** 72.06	4	40	
Aroclor-1254			50.2959	13.0178		4.91	4	40	
Aroclor-1260			50.2959	11.5385		10.90	4	40	
Aroclor-1262			50.2959	9.7633	E	6.51	4	40	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998244** RI ACF 42A09 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.14 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	: May 21, 2017 17:12:37
Instrument	: CP20--17342A
Result file	: 20PCBS17137004.019.RAW
Calibration file	: 20PCBS1713701.CAL
Method file	: 20PCBS.MET

Analysis Report (B)

Injected on	: May 21, 2017 17:12:37
Instrument	: CP20--17342B
Result file	: 20PCBS17137004B.019.RAW
Calibration file	: 20PCBS1713701B.CAL
Method file	: 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			50.2959	9.7633		2.97	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998244 RI ACF AB42A09 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:12:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.019.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.005		3043	1167
2.03		9936	12741
2.1		6917	6986
2.131		147632	95524
2.16		1832	1044
2.198		13888	8572
2.218		10141	7620
2.283		4094	3968
2.311		81943	64411
2.388		10963	17275
2.451		2661	6206
2.503		2800	5723
2.546		1023	1173
2.57		8604	6780
2.599		1309	831
2.63		1147	754
2.648		44880	29802
2.698		3276	4968
2.733		5124	3962
2.76		1938	1944
2.785		1724	685
2.8		1419	808
2.83		3948	5482
2.876		3554	4614
2.925	TCX	3365106	2174891
2.978		4380	2507
2.995		1228	517
3.038		7520	5787
3.075		2676	3371
3.108		2672	1401
3.125		4823	2869
3.162		905	758
3.189		3299	2350
3.237		206914	178843
3.297		1633	919
3.318		2289	1830
3.352		2403	1951
3.374		1444	730
3.394		2178	1287
3.415		915	588
3.49		4465	5071
3.539		2074	2484
3.588		15517	10644
3.657		8534	9702
3.693		2631	2701
3.731		4942	3467
3.791		7454	9892
3.833		1575	1150
3.856		8461	6063
3.891		12418	12125
3.932		1259	1377
3.95		2480	2041
3.979		3994	2570
4.003		1993	1558

RT A	Compound A	Height A	Area A
4.036		1584	880
4.059		3271	1941
4.081		39064	29127
4.139		4306	4792
4.172		967	581
4.192		4720	3131
4.228		124270	93604
4.248		17049	9112
4.272		28719	22085
4.299		1714	1133
4.338		44627	36306
4.382		214188	207884
4.415		86546	71909
4.455		7154	4867
4.478		11447	7915
4.52		92005	93083
4.574		37132	27015
4.589		71397	69956
4.634		416621	366722
4.68		352208	409702
4.717		98858	72137
4.756		981784	943232
4.806		24756	26340
4.848		251500	254745
4.877		14961	9274
4.904		214579	197691
4.957		1355378	1642127
5.006		225434	205231
5.049		635312	685296
5.092		26589	17776
5.127		143279	176555
5.165		1686693	1603098
5.187		54105	23543
5.227		798674	723346
5.271		532895	540556
5.325		14153	12504
5.374		39983	48964
5.392		793029	686373
5.449		437687	407527
5.49		256591	230823
5.531		50373	49528
5.575		293683	258330
5.602		14821	7769
5.631		2524651	2571622
5.732		10301	23289
5.794		1821	2230
5.837		1371435	1398116
5.879		71724	119081
5.891		110971	83791
6.022		52414	71693
6.086		48416	37457
6.109		201825	185813
6.144		2669	1866
6.206		3092	6155
6.266		534973	559585
6.311		37424	38036
6.371		1265	2558
6.466		145461	151971
6.554		809	602
6.611	DCB	2056372	2229208
6.688		8629	8050
6.776		971	1424
6.855		3781	2893
6.887		2136	1869
6.92		3121	3807
6.966		2876	4030

RT A	Compound A	Height A	Area A
7.081		4829	8997
7.31		1038	1446
7.375		2050	2426
7.438		2375	2900
7.637		578	2009
7.726		2805	3936
7.776		22209	32030
7.823		5775	7402
7.899		1628	1766
7.955		1938	3475
8.026		63020	100452
8.251		848	2635
8.679		4443	5606

LANCASTER LABORATORIES

Sample Number: 8998244 RI ACF AB42A09 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:12:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.019.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		29774	15149
2.039		11101	14697
2.051		25628	11335
2.068		26391	14827
2.115		106983	156926
2.158		49750	39437
2.185		16166	10080
2.212		22137	16511
2.228		22565	9703
2.26		30981	43837
2.29		18622	14967
2.31		10403	4833
2.325		17544	13649
2.347		6221	2979
2.365		240612	136890
2.393		28634	32432
2.432		12503	6040
2.461		31077	41096
2.489		30167	19561
2.506		12337	5343
2.532		36158	50194
2.566		33951	18937
2.594		23236	19584
2.616	TCX	19578270	11042360
2.674		36929	34869
2.707		18277	23294
2.724		26439	13300
2.755		23687	30594
2.786		23197	11827
2.808		13943	8904
2.822		4940	1440
2.836		22693	13054
2.882		5546	2392
2.923		1126224	773799
2.949		31432	33024
2.989		16388	7605
3.014		31521	47621
3.047		10764	4414
3.07		16321	12755
3.117		19825	30076
3.148		11036	6716
3.166		8561	4271
3.183		15195	9969
3.204		6850	2573
3.23		6211	2710
3.244		108511	57889
3.266		34531	22236
3.296		3107	1882
3.32		75593	56622
3.362		18637	18528
3.384		13414	6159
3.426		20201	33986
3.451		11917	9559
3.479		5342	2609

RT B	Compound B	Height B	Area B
3.494		27624	25767
3.528		48293	27386
3.549		82590	44779
3.568		24992	12113
3.588		62316	66491
3.626		14583	6553
3.653		43747	38418
3.675		302551	181150
3.697		28021	23842
3.727		48369	25772
3.742		33633	16214
3.771		11751	15392
3.807		6341	6309
3.831		45877	46075
3.855		12569	7669
3.874		860183	576092
3.9		114620	68665
3.92		91027	48836
3.938		230565	144350
3.973		1296065	909142
4.005		530953	342530
4.023		105579	50757
4.043		24580	13116
4.083		74694	71663
4.118		408080	386324
4.146		82083	57740
4.175		603748	431980
4.217		471707	425396
4.235		1224881	665323
4.248		1113743	548565
4.274		929007	909265
4.327		6316925	4823093
4.366		209367	208723
4.397		1139939	766576
4.421		1501954	1082427
4.463		8312214	6219038
4.519		17244	11072
4.567		5809565	5526831
4.617		1345264	1209403
4.658		1839136	1590959
4.694		9659384	7770166
4.727		4280076	3044958
4.766		3141998	2479074
4.839		153124	122495
4.865		629234	417993
4.881		150110	77651
4.916		5082606	4032357
4.939		1038827	689655
4.99		3036065	2636577
5.026		1454182	1172033
5.055		1030613	844486
5.088		309620	175525
5.11		15597300	12262860
5.151		295754	215359
5.183		529339	451967
5.227		11808	7805
5.247		25770	15215
5.28		5640	3004
5.301		127497	77789
5.325		2407808	1943653
5.369		8531660	9142734
5.417		17136	34880
5.472		16671	15022
5.525		326324	307924
5.57		287209	213206
5.594		258461	186889

RT B	Compound B	Height B	Area B
5.643		1512916	1259469
5.688		8995	7479
5.719		11576	6525
5.75		3572664	2867685
5.781		208410	160577
5.855		6742	4644
5.89		8331	5710
5.949		909187	798577
5.978		4577	2409
5.999		6771	5436
6.045		7324	6085
6.063		4325	2770
6.108	DCB	13305560	11378670
6.243		4847	3716
6.284		34670	29065
6.31		258424	209500
6.345		27966	22510
6.373		12657	11441
6.449		3983	3603
6.474		5401	5680
6.528		39247	65096
6.582		9616	15505
6.602		5138	2584
6.618		8217	4914
6.645		3514	2260
6.687		3960	3384
6.73		19192	25880
6.755		11666	8049
6.783		41631	43255
6.835		4866	4766
6.907		6689	10969
6.948		3077	1978
7.01		149608	145748
7.057		5127	4618
7.085		2101	1477
7.12		39199	43535
7.178		1502	1487
7.262		4323	7591
7.314		4034	4540
7.459		21967	71816
7.554		314743	413497
7.718		9336	14358
7.762		5008	8267
7.976		7285	13160
8.043		3404	3668
8.109		3526	5477
8.213		17797	28752
8.352		3323	6144
8.429		7649	18611
8.569		6749	10909
8.621		5601	8852

8998244 RI ACF AB42A09 T 171380028A 10225 SW-846 8082

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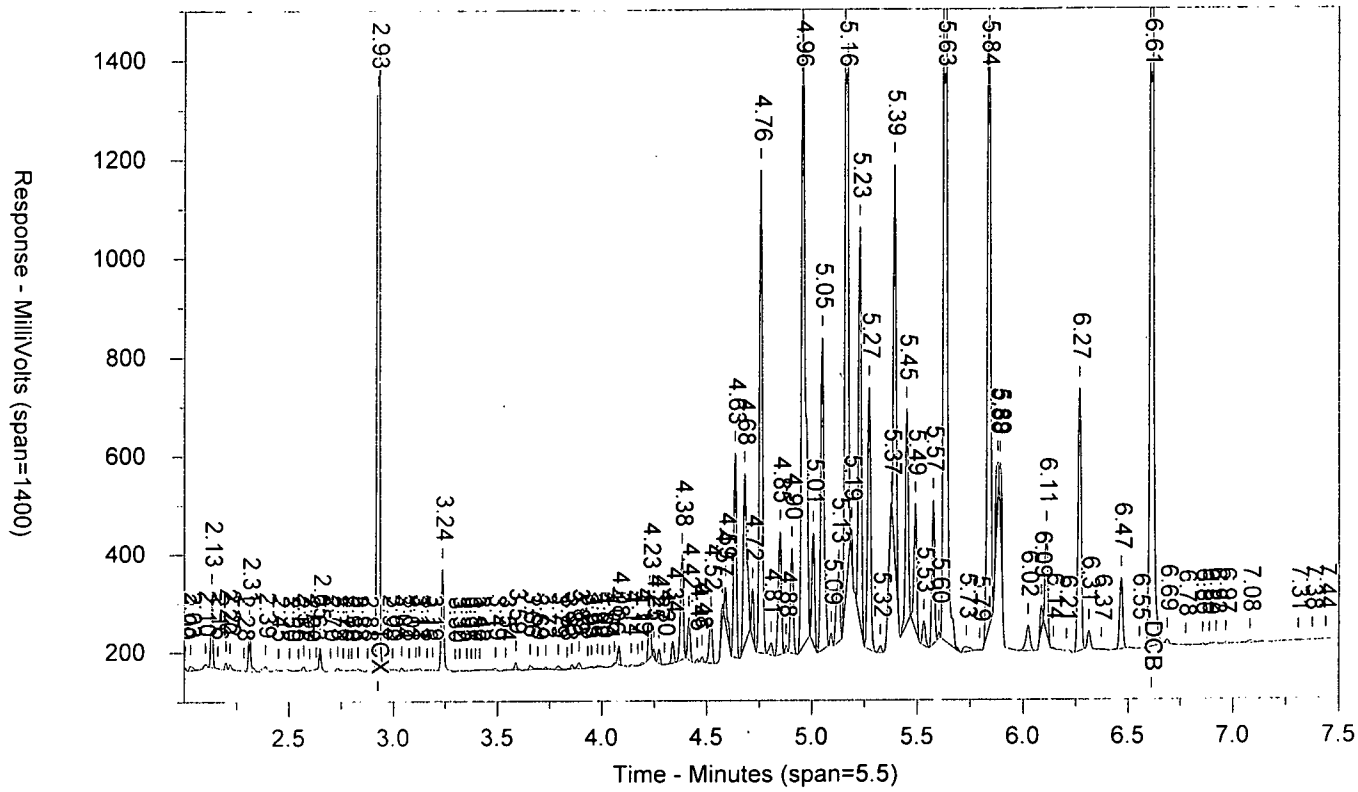

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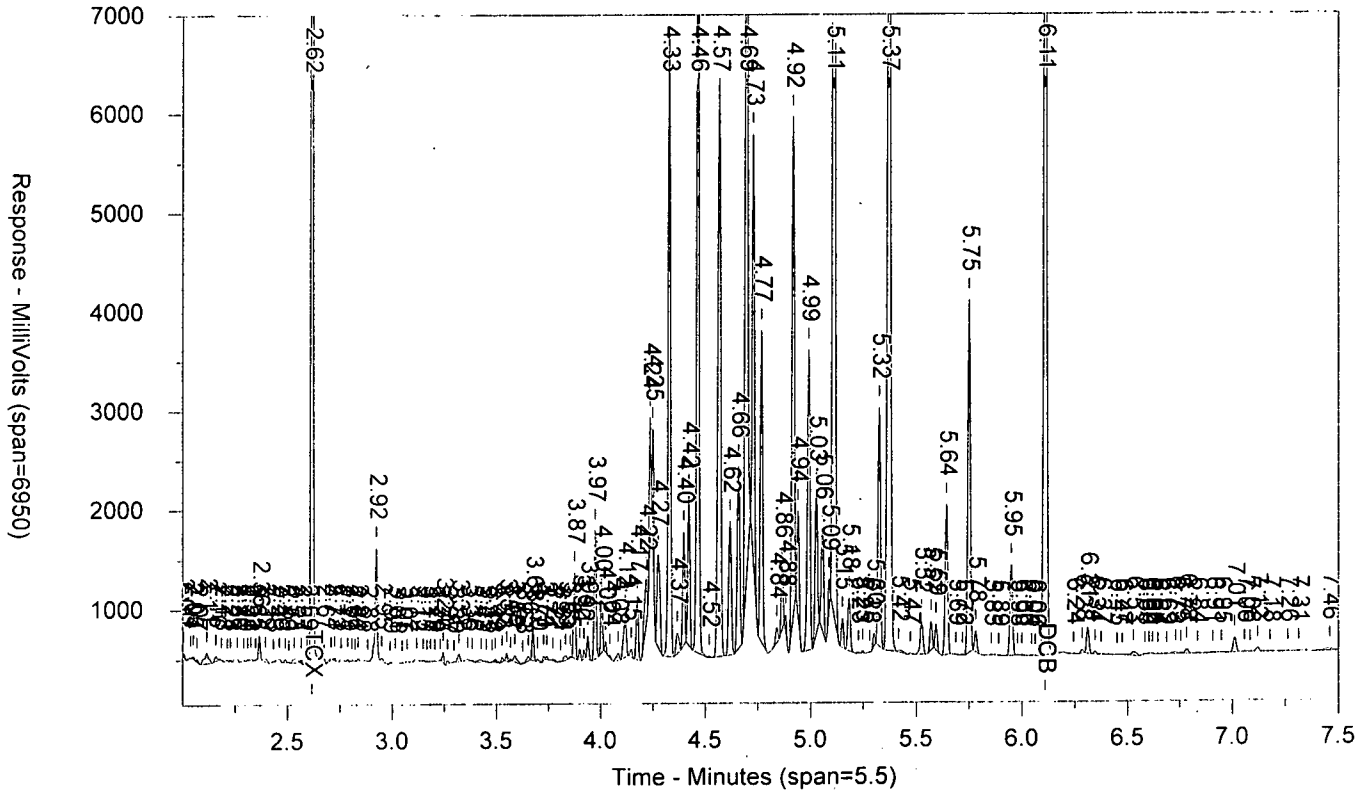

LANCASTER LABORATORIES

Sample Number: 8998244 RI ACF AB42A09 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:12:37 PM Sample Weight: 10.14
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3365106	29.203	TCX	2.616	19578270	27.93	TCX
6.611	2056372	29.469	DCB	6.108	13305560	26.934	DCB

Files:
Area File: 20pcbs17137004.019.RAW
Area File: 20pcbs17137004B.019.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 5:21:20 PM
File Reported On: 5/21/2017 at 5:21:27 PM

8998244 RI ACF AB42A09 T 171380028A 10225 SW-846 8082

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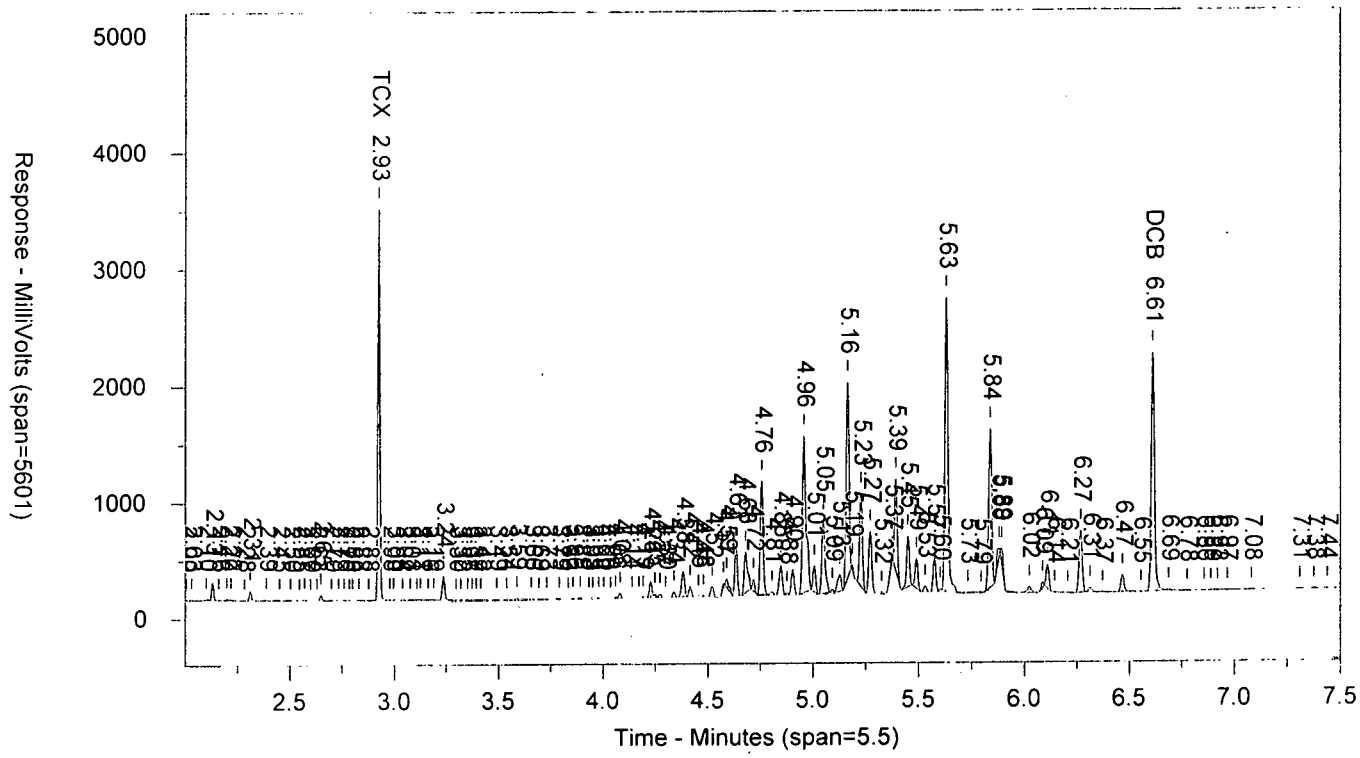

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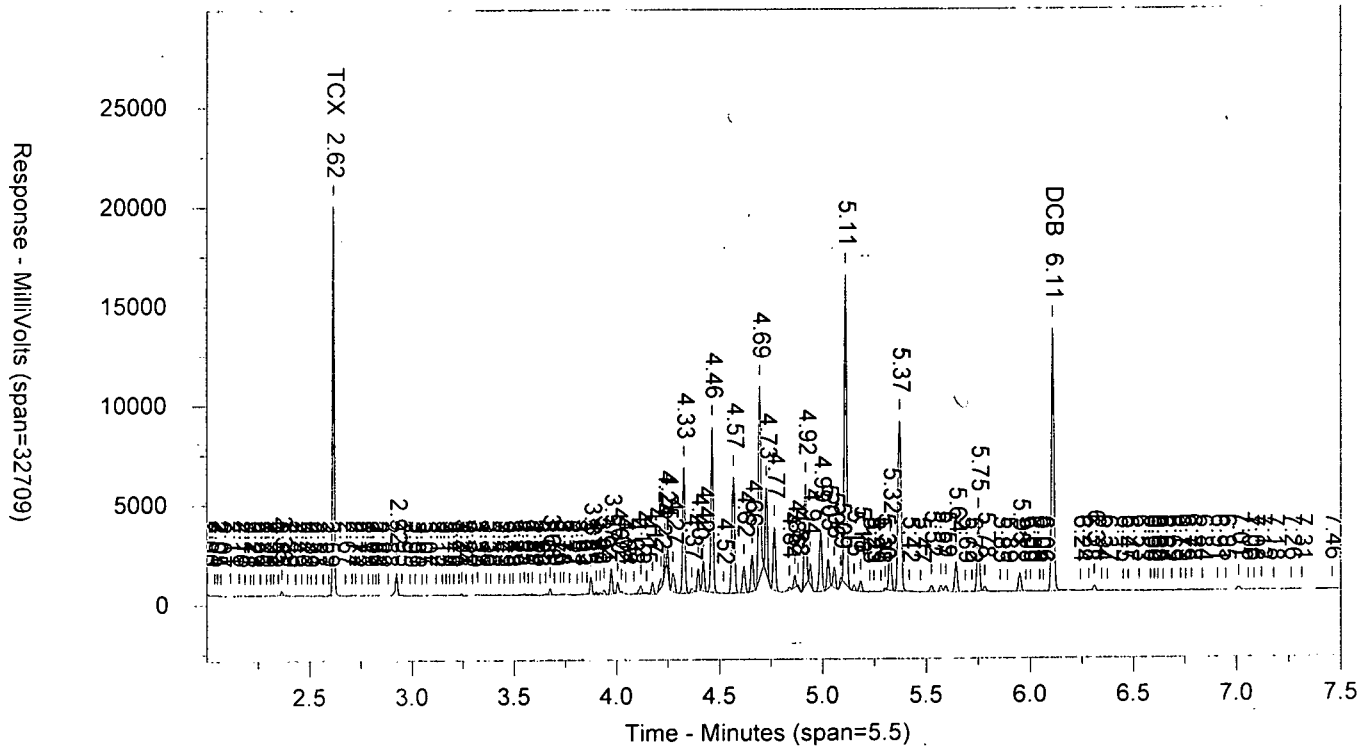

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Data Summary

Sample Name: 8998245 ACF DF200 42A10 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.24 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 17:24:04
Instrument	17342A
Result file	20PCBS17137004.020.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 97% (61 - 152) Conc: 27.82035
%SSR(DCB) * 180% (48 - 164) Conc: 51.3763

Analysis Report (B)

Injected on	May 21, 2017 17:24:04
Instrument	17342B
Result file	20PCBS17137004B.020.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 107% (61 - 152) Conc: 30.55431
%SSR(DCB) * 206% (48 - 164) Conc: 58.965

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	16187	27.82035
Decachlorobiphenyl	6.58	6.61	6.64	18102	51.3763

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	108147	30.55431
Decachlorobiphenyl	6.08	6.11	6.14	147080	58.965

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	30.55431				9.37	
☑ Decachlorobiphenyl	B	58.965				13.75	

Multiple Component Data

Aroclor-1260 (%RSD 19.04)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	2065179	96245.187477			1
5.03	5.05	5.07	1724097	145418.622126			2
5.20	5.23	5.24	1543186	111161.001223			3
5.37	5.39	5.41	1639106	103479.694372			4
5.61	5.63	5.65	5762466	150074.189713			5
5.82	5.84	5.86	3066639	142169.833413			6

Height summation: **15800673**
Concentration CF: **124758.088054** L:

Aroclor-1260 (%RSD 15.59)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	14861760	102809.202569			1
4.44	4.46	4.48	21441260	125776.958463			2
4.55	4.57	4.59	14377370	104825.723869			3
4.90	4.92	4.94	12495670	118523.375206			4
5.09	5.11	5.13	35980340	150383.741506			5
5.35	5.37	5.39	22731110	142022.8506			6

Height summation: **121887510**
Concentration CF: **124056.975369** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<9960.9375	<1933.5938			4	
☑ PCB-1221			<9960.9375	<2988.2813			3	
☑ PCB-1232			<9960.9375	<2402.3438			4	
☑ PCB-1242			<9960.9375	<2402.3438			4	
☑ PCB-1248			<9960.9375	<1933.5938			4	
☑ PCB-1254			<9960.9375	<2578.125			4	
☑ PCB-1260	A	124758.088054	9960.9375	2285.1563		0.56	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Kirby B. Turner
Associate Chemist

Verified by:

Date: MAY 23 2017

Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998245** ACF DF200 42A10 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.24 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:24:04
Instrument : CP20--17342A
Result file : 20PCBS17137004.020.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 97% (61-152) Conc.: 27.82035
%SSR(DCB) : *180% (48-164) Conc.: 51.3763

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**57.79**	
3.16	3.19	3.20	3621.545	344.725459			1
3.37	3.39	3.41	10136.33	944.898541			2
3.49	3.51	3.53	2419.615	200.343357			3
3.71	3.73	3.75	15585.9	1164.790563			4
3.76	3.79	3.80	6773.573	618.900725			5
+ 3.96	3.96	4.00	972.5594	110.825905			6
3.96	3.98	4.00	11056.49	1259.918424			6
Height Summation:			**49593.453**				
Amount Avg CF:			**755.596178**	Linear:			
Aroclor-1221					**2**	**16.59**	
3.06	3.08	3.10	1024.403	203.55574			1
3.16	3.19	3.20	3621.545	257.666205			3
Height Summation:			**4645.948**				
Amount Avg CF:			**230.610973**	Linear:			
Aroclor-1232					**6**	**68.76**	
3.16	3.19	3.20	3621.545	287.250262			1
3.38	3.39	3.42	10136.33	1998.039091			2
3.49	3.51	3.53	2419.615	434.675847			3
3.71	3.73	3.75	15585.9	2581.083032			4
3.77	3.79	3.81	6773.573	1430.801394			5
3.96	3.98	4.00	11056.49	3021.27091			6
Height Summation:			**49593.453**				
Amount Avg CF:			**1625.520089**	Linear:			
Aroclor-1242					**6**	**58.27**	
3.16	3.19	3.20	3621.545	402.39675			1
3.38	3.39	3.42	10136.33	1140.551366			2
3.49	3.51	3.53	2419.615	248.638539			3
3.71	3.73	3.75	15585.9	1423.710617			4
3.77	3.79	3.81	6773.573	790.267717			5
3.96	3.98	4.00	11056.49	1577.937585			6
Height Summation:			**49593.453**				
Amount Avg CF:			**930.583762**	Linear:			
Aroclor-1248					**6**	**189.86**	
3.76	3.79	3.80	6773.573	1139.920748			1
3.83	3.86	3.87	23872.57	2209.123851			2
+ 3.96	3.96	4.00	972.5594	76.419978			3
3.96	3.98	4.00	11056.49	868.776472			3
4.05	4.06	4.09	28524.7	2696.23369			4
4.23	4.23	4.27	300648.7	23989.393491			5
+ 4.23	4.25	4.27	60471.93	4825.18276			5
4.61	4.64	4.65	1149530	125124.957377			6
Height Summation:			**1520406.033**				
Amount Avg CF:			**26004.734271**	Linear:			
Aroclor-1254					**6**	**108.64**	
4.21	4.23	4.25	300648.7	20346.62937			1
4.55	4.57	4.59	200830.8	13524.133729			2
+ 4.55	4.59	4.59	45934.45	3093.268784			2
4.61	4.64	4.65	1149530	38327.84825			3
E 4.73	4.76	4.77	2065179	229405.329897			4
4.83	4.85	4.87	761119.4	38401.678061			5
E 5.14	5.16	5.18	4175286	205076.711842			6
Height Summation:			**8652593.9**				
Amount Avg CF:			**90847.055192**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:24:04
Instrument : CP20--17342B
Result file : 20PCBS17137004B.020.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 107% (61-152) Conc.: 30.55431
%SSR(DCB) : *206% (48-164) Conc.: 58.965

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**73.76**	
+ 2.88	2.88	2.92	12288.98	212.263132			1
2.88	2.91	2.92	50170.83	866.582704			1
3.21	3.23	3.25	20695.15	287.645627			2
3.40	3.42	3.44	67852.55	938.561178			3
+ 3.47	3.47	3.51	6621.974	77.454707			4
3.47	3.49	3.51	67754.95	792.503838			4
3.63	3.65	3.67	108990.7	1517.312268			5
3.72	3.73	3.76	174675.9	2837.850874			6
+ 3.72	3.74	3.76	93486.2	1518.812237			6
Height Summation:			**490140.08**				
Amount Avg CF:			**1206.742748**	Linear:			
Aroclor-1221					**3**	**55.90**	
2.77	2.79	2.81	33369.62	1092.158093			1
2.83	2.85	2.87	6173.443	327.769352			2
+ 2.88	2.88	2.92	12288.98	157.283217			3
2.88	2.91	2.92	50170.83	642.122416			3
Height Summation:			**89713.893**				
Amount Avg CF:			**687.349954**	Linear:			
Aroclor-1232					**6**	**86.11**	
+ 2.88	2.88	2.92	12288.98	173.742519			1
2.88	2.91	2.92	50170.83	709.31895			1
3.21	3.23	3.25	20695.15	605.393473			2
3.40	3.42	3.44	67852.55	2218.594293			3
+ 3.47	3.47	3.51	6621.974	176.237069			4
3.47	3.49	3.51	67754.95	1803.228732			4
3.66	3.68	3.70	36647.32	3571.380181			5
3.73	3.73	3.77	174675.9	6492.829234			6
+ 3.73	3.74	3.77	93486.2	3474.949506			6
Height Summation:			**417796.7**				
Amount Avg CF:			**2566.79081**	Linear:			
Aroclor-1242					**6**	**74.56**	
+ 2.88	2.88	2.92	12288.98	246.865714			1
2.88	2.91	2.92	50170.83	1007.850756			1
3.21	3.23	3.25	20695.15	348.105024			2
3.40	3.42	3.44	67852.55	1160.609218			3
+ 3.47	3.47	3.51	6621.974	99.104837			4
3.47	3.49	3.51	67754.95	1014.02441			4
3.64	3.65	3.68	108990.7	1981.134082			5
3.73	3.73	3.77	174675.9	3544.723545			6
+ 3.73	3.74	3.77	93486.2	1897.129108			6
Height Summation:			**490140.08**				
Amount Avg CF:			**1509.407839**	Linear:			
Aroclor-1248					**6**	**169.34**	
3.40	3.42	3.44	67852.55	2379.71603			1
3.51	3.53	3.55	175344.2	2180.408734			2
3.63	3.65	3.67	108990.7	1084.791121			3
3.72	3.73	3.76	174675.9	2407.76163			4
+ 3.72	3.74	3.76	93486.2	1288.629314			4
3.86	3.88	3.90	2812721	20469.464212			5
4.22	4.24	4.26	4543822	74789.818812			6
+ 4.22	4.25	4.26	2271916	37394.991704			6
Height Summation:			**7883406.35**				
Amount Avg CF:			**17218.66009**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998245** ACF DF200 42A10 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.24 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:24:04
Instrument : CP20--17342A
Result file : 20PCBS17137004.020.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	19.04	
4.73	4.76	4.77	2065179	96245.187477			1
5.03	5.05	5.07	1724097	145418.622126			2
5.20	5.23	5.24	1543186	111161.001223			3
+ 5.37	5.37	5.41	103162.7	6512.845824			4
5.37	5.39	5.41	1639106	103479.694372			4
5.61	5.63	5.65	5762466	150074.189713			5
5.82	5.84	5.86	3066639	142169.833413			6
Height Summation:			15800673				
Amount Avg CF:			124758.088054	Linear:			
Aroclor-1262					6	46.65	
E 5.21	5.23	5.24	1543186	80374.993952			1
+ 5.37	5.37	5.41	103162.7	4996.051158			2
E 5.37	5.39	5.41	1639106	79380.022323			2
E 5.61	5.63	5.65	5762466	115462.204705			3
E 5.81	5.84	5.85	3066639	111185.040955			4
5.87	5.88	5.91	268340.1	19639.352923			5
+ 5.87	5.89	5.91	233055.6	17056.940723			5
E 6.25	6.27	6.29	1153858	69414.650606			6
Height Summation:			13433595.1				
Amount Avg CF:			75909.377577	Linear:			
Aroclor-1268					6	129.72	
E 5.81	5.84	5.85	3066639	50000.576829			1
5.87	5.88	5.91	268340.1	5014.473161			2
+ 5.87	5.89	5.91	233055.6	4355.111484			2
6.00	6.02	6.04	39643.59	794.477286			3
6.07	6.09	6.11	70060.52	6124.244624			4
E 6.25	6.27	6.29	1153858	55983.376032			5
6.45	6.47	6.49	224403.9	1391.272373			6
Height Summation:			4822945.11				
Amount Avg CF:			19884.736718	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:24:04
Instrument : CP20--17342B
Result file : 20PCBS17137004B.020.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	111.28	
4.16	4.18	4.19	2377419	22211.138433			1
4.22	4.24	4.26	4543822	23924.711185			2
+ 4.22	4.25	4.26	2271916	11962.381919			2
4.31	4.33	4.35	14861760	168216.280636			3
4.38	4.40	4.42	4791279	37528.068563			4
E 4.44	4.46	4.48	21441260	291629.688891			5
4.60	4.62	4.64	4191114	46791.591244			6
Height Summation:			52206654				
Amount Avg CF:			98383.579825	Linear:			
Aroclor-1260					6	15.59	
4.31	4.33	4.35	14861760	102809.202569			1
4.44	4.46	4.48	21441260	125776.958463			2
4.55	4.57	4.59	14377370	104825.723869			3
4.90	4.92	4.94	12495670	118523.375206			4
5.09	5.11	5.13	35980340	150383.741506			5
5.35	5.37	5.39	22731110	142022.8506			6
Height Summation:			121887510				
Amount Avg CF:			124056.975369	Linear:			
Aroclor-1262					6	36.74	
E 4.71	4.73	4.75	8994696	54200.638088			1
E 4.90	4.92	4.94	12495670	75694.553987			2
E 5.09	5.11	5.13	35980340	114587.884249			3
E 5.31	5.33	5.35	5502866	42293.400615			4
E 5.35	5.37	5.39	22731110	108538.985882			5
E 5.73	5.75	5.77	8402129	74131.656794			6
Height Summation:			94106811				
Amount Avg CF:			78241.186602	Linear:			
Aroclor-1268					6	126.57	
5.31	5.33	5.35	5502866	12986.144155			1
E 5.35	5.37	5.39	22731110	52982.783311			2
5.51	5.53	5.55	266890.9	724.097977			3
5.57	5.59	5.61	147342.3	1653.397396			4
E 5.73	5.75	5.77	8402129	58181.091687			5
5.93	5.95	5.97	1504710	1370.963504			6
Height Summation:			38555048.2				
Amount Avg CF:			21316.413005	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			9960.9375	1933.5938		** 45.98	4	40	
Aroclor-1221			9960.9375	2988.2813		** 99.51	3	5	
Aroclor-1232			9960.9375	2402.3438		** 44.90	4	10	
Aroclor-1242			9960.9375	2402.3438		** 47.44	4	30	
Aroclor-1248			9960.9375	1933.5938		** 40.65	4	40	
Aroclor-1254			9960.9375	2578.125	E	7.97	4	40	
Aroclor-1260			9960.9375	2285.1563		0.56	4	40	
Aroclor-1262			9960.9375	1933.5938	E	3.03	4	40	
Aroclor-1268			9960.9375	1933.5938	E	6.95	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998245ACF DF200 AD42A10 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:24:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.020.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		3275	3820
2.101		15380	30788
2.198		23504	16593
2.284		1315	882
2.311		20559	13996
2.381		2881	2968
2.424		2771	2175
2.551		1132	818
2.571		2848	1804
2.649		20281	18403
2.754		804	441
2.776		34571	28723
2.829		3284	3205
2.924	TCX	16187	10718
3.011		1174	770
3.037		5271	3387
3.077		1024	814
3.191		3622	4388
3.23		118745	117428
3.363		1829	1029
3.386		10136	16057
3.467		2273	1874
3.514		2420	1296
3.558		1089	836
3.588		9262	6521
3.623		867	430
3.667		5786	3511
3.693		5511	3475
3.731		15586	12667
3.787		6774	5367
3.855		23873	17501
3.891		33436	32917
3.956		973	622
3.979		11056	7336
4.003		3599	2695
4.034		6899	4673
4.06		28525	35450
4.11		4494	3379
4.139		2852	1711
4.156		2268	1238
4.19		15339	10693
4.227		300649	224857
4.248		60472	35671
4.273		92275	73161
4.339		117721	100695
4.382		698463	643727
4.417		278394	226722
4.456		17592	13024
4.48		26915	19706
4.52		251757	248835
4.574		200831	140571
4.588		45934	18782
4.604		107208	61123
4.635		1149530	965600

RT A	Compound A	Height A	Area A
4.68		723408	817016
4.718		273130	209012
4.757		2065179	1917034
4.807		74977	76291
4.849		761119	774687
4.877		25855	14799
4.904		414610	391927
4.957		3130326	3804483
5.006		393758	361060
5.05		1724097	1691133
5.093		82106	56826
5.129		266208	327902
5.165		4175286	3749004
5.188		136466	62766
5.228		1543186	1396569
5.271		1089464	1030838
5.321		8711	8050
5.373		103163	103454
5.392		1639106	1381527
5.451		912643	830846
5.491		526252	459447
5.531		84023	78378
5.576		689671	596711
5.602		34898	19154
5.631		5762466	5214402
5.666		32788	21729
5.722		9949	10447
5.774		4154	2952
5.798		2453	1408
5.838		3066639	2983130
5.876		268340	289837
5.891		233056	156125
6.022		39644	58708
6.086		70061	53235
6.109		462459	402384
6.168		1979	2147
6.235		1642	1078
6.267		1153858	1135416
6.311		71936	75976
6.377		3388	3899
6.465		224404	224124
6.559		626	890
6.587		1008	748
6.612	DCB	18102	15991
6.637		3430	2929
6.689		8117	7632
6.782		1160	1487
6.875		1713	3829
7.076		2413	8553
7.126		3466	7418
7.4		634	2131
7.536		467	764
7.634		525	1118
7.778		3832	6272
8.027		1422	2574
8.168		896	1446

LANCASTER LABORATORIES

Sample Number: 8998245ACF DF200 AD42A10 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:24:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.020.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		22425	14962
2.112		10027	8962
2.157		33133	41317
2.239		17990	26625
2.311		4904	2492
2.365		132736	102626
2.414		5091	5255
2.482		4654	4098
2.547		93714	75800
2.616	TCX	108147	70688
2.705		7119	5493
2.785		33370	19226
2.847		6173	8005
2.88		12289	8722
2.912		50171	30247
2.922		570324	279193
2.987		14222	8168
3.034		7952	4508
3.058		4577	2611
3.107		29645	46978
3.18		24950	21243
3.203		8359	4335
3.229		20695	13413
3.265		72987	47473
3.31		6596	3809
3.325		73253	42546
3.354		5455	3077
3.375		12912	6264
3.385		38170	16715
3.42		67853	85735
3.473		6622	3522
3.493		67755	42786
3.527		175344	103807
3.552		287592	168088
3.568		44895	18038
3.585		39652	24757
3.654		108991	73951
3.676		36647	18347
3.698		65839	53196
3.727		174676	94033
3.743		93486	47795
3.779		62623	57825
3.831		124712	127743
3.854		140814	84059
3.876		2812721	1832851
3.901		465614	269247
3.92		233692	123840
3.939		703239	437597
3.974		4603402	3132018
4.006		1862300	1217943
4.023		277594	129074
4.044		62505	30044
4.085		190694	145625
4.119		1365244	1212810

RT B	Compound B	Height B	Area B
4.147		176064	135924
4.176		2377419	1721963
4.21		1240178	1207817
4.236		4543822	2473115
4.249		2271916	1074329
4.276		2121440	2158726
4.328		14861760	11161370
4.365		626931	573055
4.397		4791279	3155368
4.422		3377352	2424819
4.465		21441260	16417410
4.519		55684	40730
4.567		14377370	13830370
4.618		4191114	3460623
4.659		4538204	3801060
4.695		25654220	20805810
4.728		8994696	6091309
4.766		7243234	5520414
4.824		50116	28605
4.836		23127	11960
4.865		1670690	1159340
4.882		482409	244028
4.917		12495670	9465871
4.94		2978154	2022133
4.991		6741353	5863962
5.027		3551372	2795374
5.056		2517576	2015091
5.088		1136310	649208
5.111		35980340	28634540
5.152		658095	470637
5.184		880135	720809
5.226		21921	16637
5.247		47566	32308
5.302		241181	150796
5.326		5502866	4470229
5.371		22731110	23415340
5.472		27308	28947
5.526		266891	230072
5.571		648756	515534
5.594		147342	96759
5.616		16984	6955
5.643		3472734	2903155
5.686		12825	13353
5.75		8402129	6640620
5.781		428396	319380
5.861		11318	10242
5.949		1504710	1351987
6.035		6110	5747
6.063		3634	2353
6.108	DCB	147080	127069
6.143		17621	31159
6.239		3872	2621
6.283		42518	38406
6.309		30370	23993
6.373		7822	5750
6.478		4168	8610
6.527		7107	7968
6.583		14679	18528
6.734		2372	1674
6.788		2175	1692
6.952		3087	3253
7.011		21422	22684
7.122		3657	4272
7.234		2163	1470
7.298		3363	4437
7.461		4751	14916

RT B	Compound B	Height B	Area B
7.523		1682	930
7.555		5199	4984
7.6		2515	4241
7.714		2666	3995
7.837		2525	3459
8.054		1569	989
8.11		11504	20194
8.214		19365	37645
8.429		24498	45647

8998245ACF DF200 AD42A10 T 171380028A 10225 SW-846 8082

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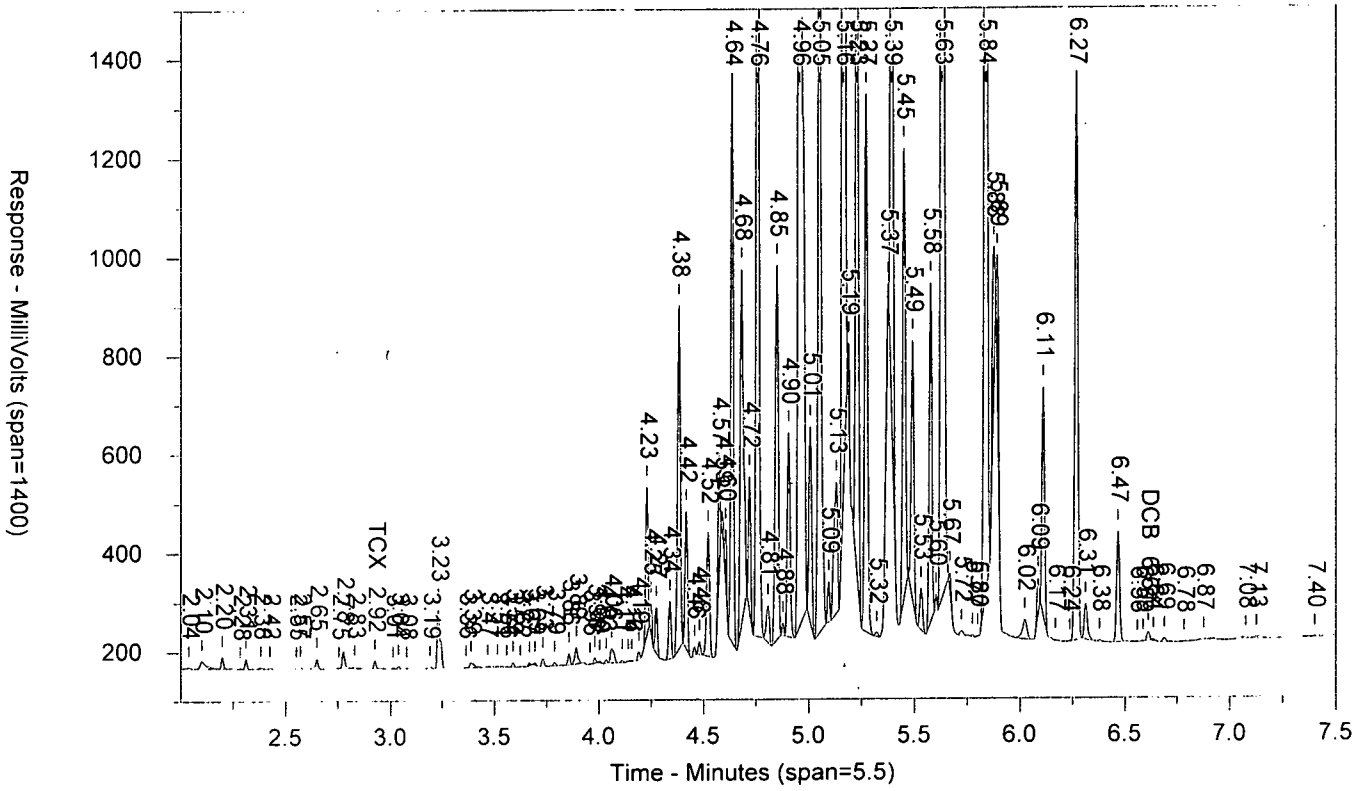

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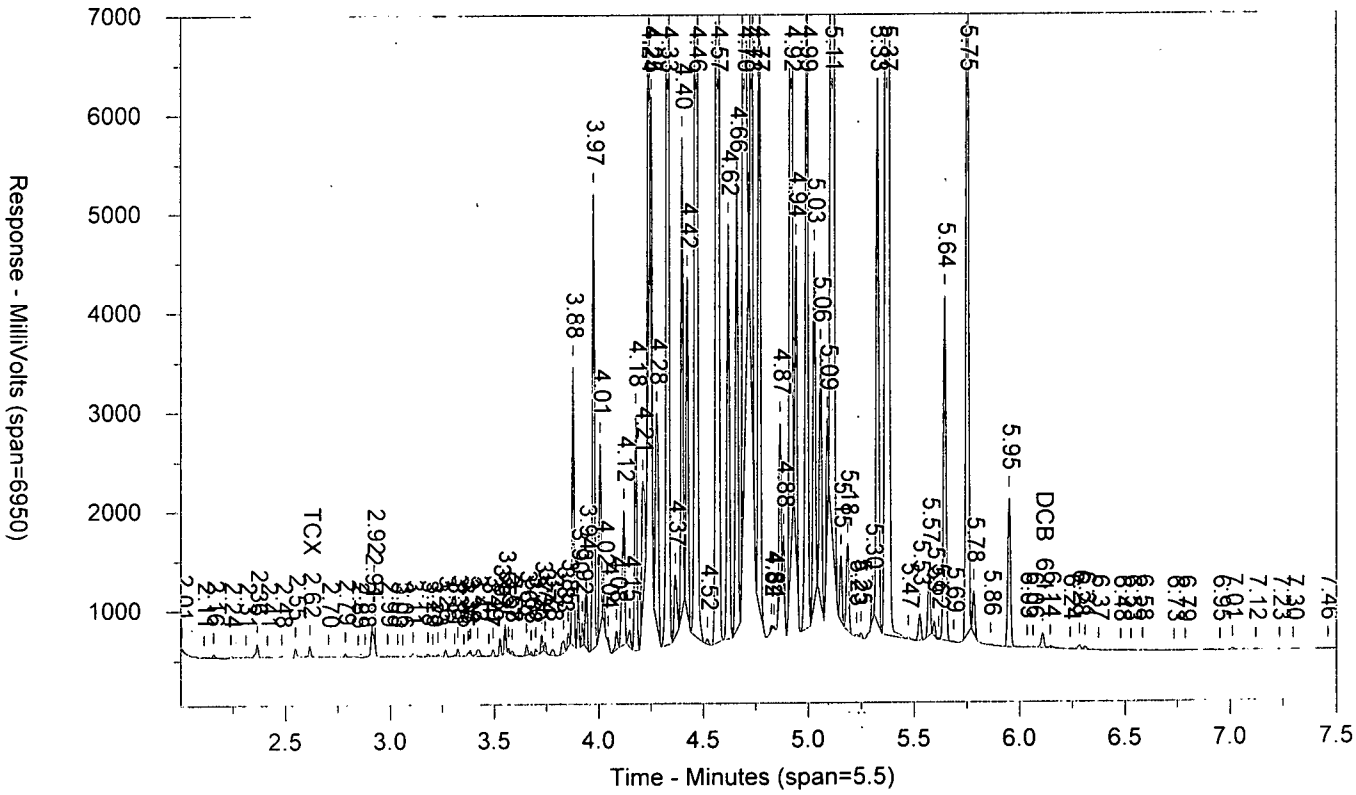


LANCASTER LABORATORIES

Sample Number: 8998245ACF DF200 AD42A10 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:24:04 PM Sample Weight: 10.24
Instrument ID: CP20-17342 Dilution Factor: 2000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

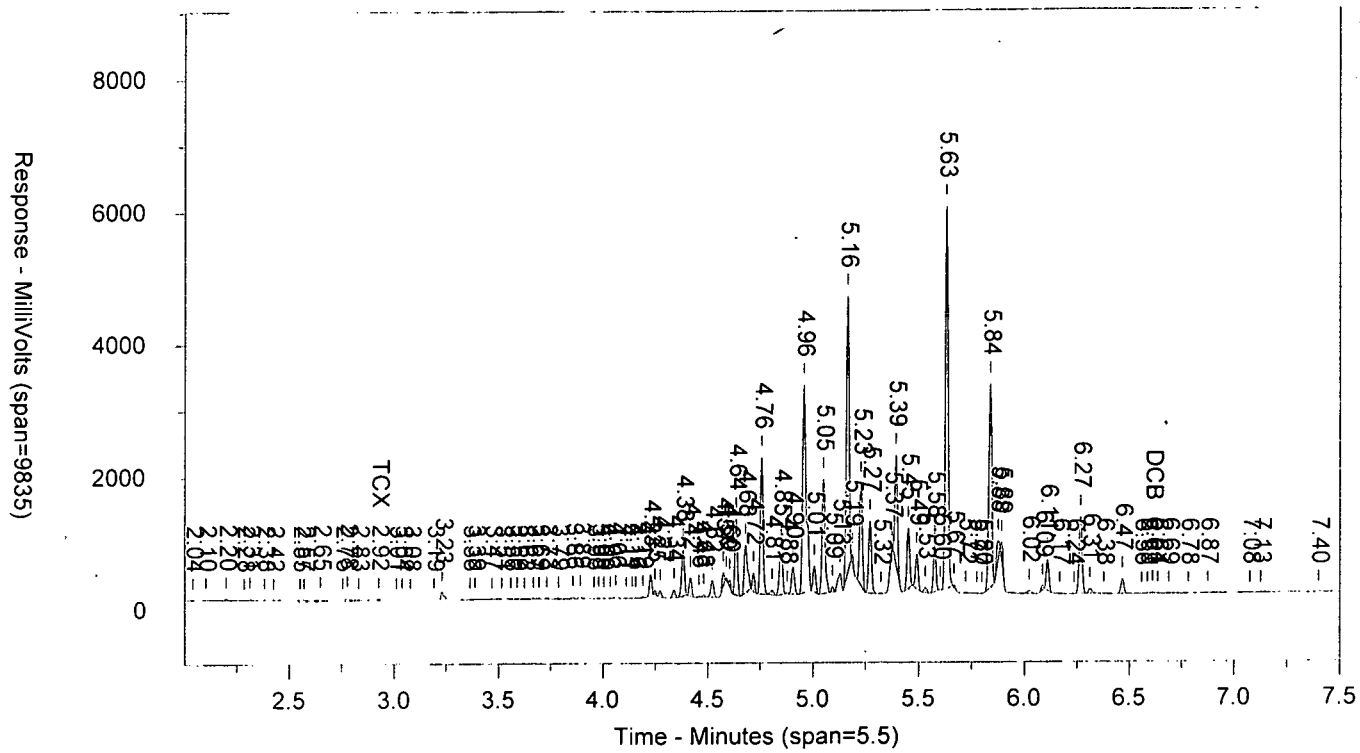
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	16187	27.82	TCX	2.616	108147	30.554	TCX
6.612	18102	51.376	DCB	6.108	147080	58.965	DCB

Files:
Area File: 20pcbs17137004.020.RAW
Area File: 20pcbs17137004B.020.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 5:32:44 PM
File Reported On: 5/21/2017 at 5:32:55 PM

8998245ACF DF200 AD42A10 T 171380028A 10225 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137004.020.RAW



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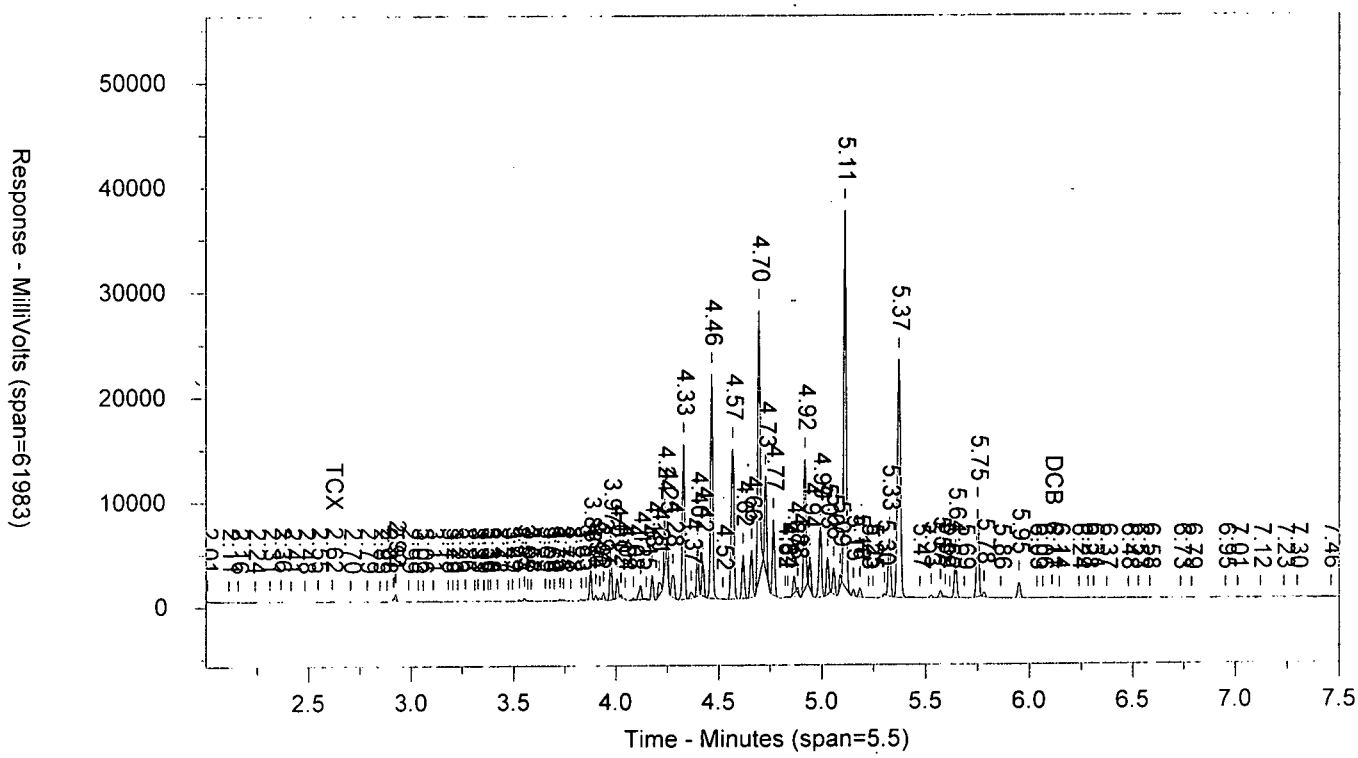

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Data Summary

Sample Name: 8998246 ACF DF100 42A11 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 17:57:23
Instrument	17342A
Result file	20PCBS17137004.023.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 105% (61 - 152) Conc: 29.63774
%SSR(DCB) 154% (48 - 164) Conc: 43.53009

Analysis Report (B)

Injected on	May 21, 2017 17:57:23
Instrument	17342B
Result file	20PCBS17137004B.023.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 108% (61 - 152) Conc: 30.48104
%SSR(DCB) * 168% (48 - 164) Conc: 47.7086

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	34792	29.63774
Decachlorobiphenyl	6.58	6.61	6.64	30944	43.53009

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	217672	30.48104
Decachlorobiphenyl	6.08	6.10	6.14	240096	47.7086

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	30.48104				2.81	
☑ Decachlorobiphenyl	B	47.7086				9.16	

Multiple Component Data

Aroclor-1260 (%RSD 22.62)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.75	4.77	1173269	27101.202295		1
5.03	5.05	5.07	1200789	50198.954186		2
5.20	5.22	5.24	884040.4	31562.829332		3
5.37	5.39	5.41	1265604	39601.859216		4
5.61	5.63	5.65	3536646	45651.900499		5
5.82	5.83	5.86	2001690	45995.067338		6

Height summation: **10062038.4**
Concentration CF: **40018.635478** L:

Aroclor-1260 (%RSD 19.19)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	8867835	30405.27881		1
4.44	4.46	4.48	13338740	38782.449176		2
4.55	4.56	4.59	9128269	32987.278716		3
4.90	4.91	4.94	7379550	34693.169841		4
5.09	5.11	5.13	22651260	46924.281057		5
5.35	5.37	5.39	15564860	48200.599503		6

Height summation: **76930514**
Concentration CF: **38665.509517** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<4937.0764	<958.3737			4	
☑ PCB-1221			<4937.0764	<1481.1229			3	
☑ PCB-1232			<4937.0764	<1190.7067			4	
☑ PCB-1242			<4937.0764	<1190.7067			4	
☑ PCB-1248			<4937.0764	<958.3737			4	
☑ PCB-1254			<4937.0764	<1277.8315			4	
☑ PCB-1260	A	40018.635478	4937.0764	1132.6234		3.44	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998246** ACF DF100 42A11 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:57:23
Instrument : CP20--17342A
Result file : 20PCBS17137004.023.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 105% (61-152) Conc.: 29.63774
%SSR(DCB) : 154% (48-164) Conc.: 43.53009

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**79.19**	
3.16	3.18	3.20	2678.95	126.390293			1
3.37	3.40	3.41	3097.744	143.126352			2
3.49	3.51	3.53	2131.369	87.469564			3
3.71	3.73	3.75	17763.58	657.985152			4
3.76	3.79	3.80	5805.175	262.898514			5
3.96	3.98	4.00	9649.879	545.025292			6
Height Summation:			**41126.697**				
Amount Avg CF:			**303.815861**	Linear:			
Aroclor-1221					**2**	**30.65**	
3.06	3.08	3.10	1490.058	146.752438			1
3.16	3.18	3.20	2678.95	94.47085			3
Height Summation:			**4169.008**				
Amount Avg CF:			**120.611644**	Linear:			
Aroclor-1232					**6**	**88.49**	
3.16	3.18	3.20	2678.95	105.317562			1
3.38	3.40	3.42	3097.744	302.648415			2
3.49	3.51	3.53	2131.369	189.778725			3
3.71	3.73	3.75	17763.58	1458.042644			4
3.77	3.79	3.81	5805.175	607.780126			5
3.96	3.98	4.00	9649.879	1306.964824			6
+ 3.96	4.00	4.00	2565.995	347.53443			6
Height Summation:			**41126.697**				
Amount Avg CF:			**661.755383**	Linear:			
Aroclor-1242					**6**	**79.42**	
3.16	3.18	3.20	2678.95	147.53492			1
3.38	3.40	3.42	3097.744	172.762417			2
3.49	3.51	3.53	2131.369	108.555157			3
3.71	3.73	3.75	17763.58	804.247971			4
3.77	3.79	3.81	5805.175	335.692301			5
3.96	3.98	4.00	9649.879	682.59649			6
+ 3.96	4.00	4.00	2565.995	181.508927			6
Height Summation:			**41126.697**				
Amount Avg CF:			**375.231543**	Linear:			
Aroclor-1248					**6**	**214.55**	
3.76	3.79	3.80	5805.175	484.218969			1
3.83	3.85	3.87	16910.68	775.624645			2
3.96	3.98	4.00	9649.879	375.82207			3
4.05	4.06	4.09	25283.15	1184.506003			4
4.23	4.25	4.27	65265.52	2581.150809			5
4.61	4.63	4.65	861687.1	46488.214203			6
Height Summation:			**984601.504**				
Amount Avg CF:			**8648.256117**	Linear:			
Aroclor-1254					**6**	**100.19**	
4.21	4.22	4.25	144913.8	4860.853455			1
+ 4.21	4.25	4.25	65265.52	2189.205779			1
4.55	4.57	4.59	140598	4692.755427			2
+ 4.55	4.58	4.59	16460.13	549.39163			2
4.61	4.63	4.65	861687.1	14240.1105			3
4.73	4.75	4.77	1173269	64597.10263			4
4.83	4.85	4.87	713639.1	17846.197174			5
5.14	5.16	5.18	2686253	65395.319982			6
Height Summation:			**5720360**				
Amount Avg CF:			**28605.389861**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:57:23
Instrument : CP20--17342B
Result file : 20PCBS17137004B.023.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 108% (61-152) Conc.: 30.48104
%SSR(DCB) : *168% (48-164) Conc.: 47.7086

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**60.40**	
+ 2.88	2.88	2.92	5500.673	47.091682			1
2.88	2.91	2.92	88675.98	759.161836			1
3.21	3.23	3.25	18714.1	128.922222			2
3.40	3.42	3.44	86328.85	591.864113			3
3.47	3.49	3.51	80211.1	465.012318			4
3.63	3.65	3.67	110222.4	760.545201			5
3.72	3.72	3.76	169490.1	1364.804846			6
+ 3.72	3.74	3.76	71271.63	573.908836			6
Height Summation:			**553642.53**				
Amount Avg CF:			**678.385089**	Linear:			
Aroclor-1221					**2**	**61.40**	
2.77	2.79	2.81	87888.25	1425.721516			1
+ 2.88	2.88	2.92	5500.673	34.894101			3
2.88	2.91	2.92	88675.98	562.525457			3
Height Summation:			**176564.23**				
Amount Avg CF:			**994.123486**	Linear:			
Aroclor-1232					**6**	**86.55**	
+ 2.88	2.88	2.92	5500.673	38.545683			1
2.88	2.91	2.92	88675.98	621.392365			1
3.21	3.23	3.25	18714.1	271.336201			2
3.40	3.42	3.44	86328.85	1399.063134			3
3.47	3.49	3.51	80211.1	1058.068783			4
+ 3.66	3.67	3.70	36446.04	1760.410097			5
3.66	3.70	3.70	76469.93	3693.636864			5
3.73	3.74	3.77	71271.63	1313.068316			6
Height Summation:			**421671.59**				
Amount Avg CF:			**1392.760944**	Linear:			
Aroclor-1242					**6**	**42.92**	
+ 2.88	2.88	2.92	5500.673	54.768445			1
2.88	2.91	2.92	88675.98	882.918418			1
3.21	3.23	3.25	18714.1	156.020009			2
3.40	3.42	3.44	86328.85	731.889366			3
3.47	3.49	3.51	80211.1	594.992501			4
3.64	3.65	3.68	110222.4	993.03357			5
+ 3.64	3.67	3.68	36446.04	328.35559			5
3.73	3.74	3.77	71271.63	716.86225			6
Height Summation:			**455424.06**				
Amount Avg CF:			**679.286019**	Linear:			
Aroclor-1248					**6**	**189.37**	
3.40	3.42	3.44	86328.85	1500.667777			1
3.51	3.53	3.55	132756.2	818.221638			2
3.63	3.65	3.67	110222.4	543.746135			3
3.72	3.72	3.76	169490.1	1157.962446			4
+ 3.72	3.74	3.76	71271.63	486.930334			4
3.86	3.87	3.90	1667806	6015.822184			5
4.22	4.23	4.26	5108330	41674.438365			6
Height Summation:			**7274933.55**				
Amount Avg CF:			**8618.476424**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998246** ACF DF100 42A11 Sample ID: AD **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 17:57:23
Instrument : CP20--17342A
Result file : 20PCBS17137004.023.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	22.62	
4.73	4.75	4.77	1173269	27101.202295			1
5.03	5.05	5.07	1200789	50198.954186			2
5.20	5.22	5.24	884040.4	31562.829332			3
5.37	5.39	5.41	1265604	39601.859216			4
5.61	5.63	5.65	3536646	45651.900499			5
5.82	5.83	5.86	2001690	45995.067338			6
Height Summation:			**10062038.4**				
Amount Avg CF:			**40018.635478**	Linear:			
Aroclor-1262					6	47.87	
5.21	5.22	5.24	884040.4	17142.753385			1
E 5.37	5.39	5.41	1265604	30378.87276			2
E 5.61	5.63	5.65	3536646	35123.088725			3
E 5.81	5.83	5.85	2001690	35970.805641			4
5.87	5.87	5.91	147997.8	5368.667363			5
+ 5.87	5.89	5.91	143652.2	5211.029338			5
E 6.25	6.26	6.29	811860.9	24207.505648			6
Height Summation:			**8647839.1**				
Amount Avg CF:			**24698.615587**	Linear:			
Aroclor-1268					6	103.21	
5.81	5.83	5.85	2001690	16176.286087			1
5.87	5.87	5.91	147997.8	1370.770132			2
+ 5.87	5.89	5.91	143652.2	1330.520759			2
6.00	6.02	6.04	27847.97	276.61243			3
+ 6.07	6.08	6.11	47771.54	2069.750778			4
6.07	6.11	6.11	304309.2	13184.506997			4
E 6.25	6.26	6.29	811860.9	19523.513835			5
6.45	6.46	6.49	157658.4	484.471814			6
Height Summation:			**3451364.27**				
Amount Avg CF:			**8502.693549**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 17:57:23
Instrument : CP20--17342B
Result file : 20PCBS17137004B.023.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	95.64	
4.16	4.17	4.19	1545955	7158.657383			1
4.22	4.23	4.26	5108330	13331.345329			2
4.31	4.33	4.35	8867835	49749.076788			3
4.38	4.39	4.42	4324366	16787.917875			4
4.44	4.46	4.48	13338740	89921.983531			5
4.60	4.61	4.64	3806052	21061.179886			6
Height Summation:			**36991278**				
Amount Avg CF:			**33001.693466**	Linear:			
Aroclor-1260					6	19.19	
4.31	4.33	4.35	8867835	30405.27881			1
4.44	4.46	4.48	13338740	38782.449176			2
4.55	4.56	4.59	9128269	32987.278716			3
4.90	4.91	4.94	7379550	34693.169841			4
5.09	5.11	5.13	22651260	46924.281057			5
5.35	5.37	5.39	15564860	48200.599503			6
Height Summation:			**76930514**				
Amount Avg CF:			**38665.509517**	Linear:			
Aroclor-1262					6	40.00	
4.71	4.73	4.75	5310302	15860.130974			1
E 4.90	4.91	4.94	7379550	22156.675954			2
E 5.09	5.11	5.13	22651260	35754.889674			3
5.31	5.32	5.35	3458690	13175.434502			4
E 5.35	5.37	5.39	15564860	36836.636969			5
E 5.73	5.75	5.77	5553530	24285.839641			6
Height Summation:			**59918192**				
Amount Avg CF:			**24678.267953**	Linear:			
Aroclor-1268					6	127.01	
5.31	5.32	5.35	3458690	4045.5033			1
5.35	5.37	5.39	15564860	17981.626957			2
5.51	5.52	5.55	202772.5	272.67308			3
5.57	5.59	5.61	104975.9	583.86044			4
+ 5.57	5.61	5.61	19192.41	106.745348			4
5.73	5.75	5.77	5553530	19060.368053			5
5.93	5.95	5.97	1092112	493.185052			6
Height Summation:			**25976940.4**				
Amount Avg CF:			**7072.86948**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			4937.0764	958.3737		** 76.27	4	40	
Aroclor-1221			4937.0764	1481.1229		** 156.72	3	5	
Aroclor-1232			4937.0764	1190.7067		** 71.16	4	10	
Aroclor-1242			4937.0764	1190.7067		** 57.67	4	30	
Aroclor-1248			4937.0764	958.3737		0.34	4	40	
Aroclor-1254			4937.0764	1277.8315		14.27	4	40	
Aroclor-1260			4937.0764	1132.6234		3.44	4	40	
Aroclor-1262			4937.0764	958.3737	E	0.08	4	40	
Aroclor-1268			4937.0764	958.3737	E	18.36	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998246ACF DF100 AD42A11 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:57:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.023.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		2775	3205
2.101		1377	1689
2.13		1523	2056
2.198		22021	16792
2.283		6845	4371
2.309		2476	2096
2.381		3637	4382
2.569		5774	4443
2.626		2882	1472
2.647		12741	8103
2.799		915	518
2.829		1173	1048
2.924	TCX	34792	23664
3.036		13656	8646
3.081		1490	1271
3.181		2679	2962
3.229		97647	55012
3.243		29666	13222
3.314		1117	918
3.396		3098	2316
3.465		3276	3768
3.511		2131	1260
3.555		1590	1329
3.585		10635	7561
3.621		1155	1296
3.663		1433	871
3.69		5066	4903
3.727		17764	13910
3.785		5805	8006
3.853		16911	12070
3.887		31744	27104
3.917		2292	2614
3.954		2427	1503
3.976		9650	6458
3.998		2566	1901
4.031		7201	4843
4.057		25283	29497
4.106		4242	3367
4.135		6952	4414
4.187		8783	5978
4.224		144914	109701
4.245		65266	39990
4.269		81529	59309
4.295		2014	1243
4.335		75384	63891
4.379		414007	401234
4.412		199680	165282
4.452		14779	11139
4.476		28649	20638
4.517		191813	193641
4.571		140598	102240
4.584		16460	6104
4.602		91370	57339
4.631		861687	706216

RT A	Compound A	Height A	Area A
4.677		395973	444674
4.715		184350	141321
4.753		1173269	1104661
4.803		76131	73856
4.846		713639	693335
4.874		16254	9090
4.901		271265	258275
4.954		1975762	2348616
5.003		217349	203323
5.046		1200789	1193353
5.089		65924	48787
5.125		201334	234867
5.162		2686253	2461382
5.184		85343	41593
5.202		12819	3447
5.224		884040	818173
5.267		649772	640290
5.318		6820	6914
5.389		1265604	1857113
5.447		567958	515123
5.487		336411	295129
5.527		53615	51999
5.572		489796	435670
5.598		34314	19468
5.628		3536647	3284833
5.662		24642	15629
5.717		8530	9019
5.752		3275	2248
5.771		2635	1527
5.796		2349	1470
5.834		2001690	1964492
5.873		147998	156750
5.887		143652	105912
6.019		27848	46485
6.081		47772	37786
6.106		304309	268452
6.23		1858	1244
6.262		811861	774596
6.308		54642	63120
6.462		157658	161393
6.584		1271	892
6.608	DCB	30944	25783
6.63		11030	8473
6.684		9044	8921
6.853		1051	1060
6.929		7261	26558
7.074		1612	1762
7.119		2045	2481
7.411		893	4228
7.698		737	158
7.77		3343	4237
8.022		6677	11725
8.678		6240	13598

LANCASTER LABORATORIES

Sample Number: 8998246ACF DF100 AD42A11 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:57:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.023.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		3054	2108
2.027		3533	6678
2.071		5414	4011
2.112		50088	39420
2.159		58765	46938
2.241		11268	16582
2.312		7355	3354
2.366		96096	83846
2.395		3355	3236
2.456		1929	1884
2.494		6622	4538
2.569		5197	4237
2.616	TCX	217672	139578
2.705		8051	15293
2.76		2297	2843
2.786		87888	49334
2.881		5501	3251
2.913		88676	47392
2.923		546491	255715
3.012		3265	3024
3.034		10398	5562
3.107		17046	10840
3.179		20827	13968
3.203		6654	3774
3.23		18714	11286
3.265		84848	54795
3.308		10688	7216
3.326		12150	6767
3.354		12077	7045
3.375		9785	4312
3.384		24252	10988
3.42		86329	96474
3.492		80211	58780
3.526		132756	74734
3.55		266757	153652
3.567		27070	10174
3.584		41255	26012
3.653		110222	78961
3.674		36446	18378
3.695		76470	48433
3.724		169490	94074
3.741		71272	36287
3.776		59509	64109
3.83		114809	109977
3.852		141832	80148
3.873		1667806	1063907
3.898		464077	273752
3.918		137219	71223
3.936		473705	293542
3.972		2865877	1964257
4.004		1415312	955929
4.022		200159	87897
4.082		187657	146526
4.116		1050395	956870

RT B	Compound B	Height B	Area B
4.145		127096	94975
4.174		1545955	1126778
4.207		964249	837453
4.234		5108331	5127920
4.273		1293036	1289928
4.325		8867835	6776736
4.363		641094	500512
4.395		4324366	3005844
4.419		2277296	1523037
4.462		13338750	10298520
4.515		22163	16647
4.564		9128269	8434892
4.614		3806052	3195183
4.656		3006750	2540777
4.693		16662960	14141570
4.725		5310302	3657268
4.763		4256312	3373592
4.822		51039	28475
4.835		29026	13717
4.863		945681	628478
4.879		381076	216500
4.914		7379550	5736702
4.938		2535852	1695764
4.989		4352141	3702559
5.024		2219068	1779565
5.053		1628644	1292958
5.086		994720	602149
5.108		22651260	18242000
5.15		428441	312422
5.181		561845	462541
5.226		18210	12680
5.245		45892	29529
5.28		19947	12594
5.3		158334	95267
5.324		3458690	2880954
5.367		15564860	15126950
5.464		8089	11857
5.523		202773	175986
5.568		489202	392000
5.592		104976	64561
5.613		19192	9297
5.641		2281974	1963107
5.683		15691	15300
5.719		13305	7486
5.747		5553530	4605106
5.778		310939	233382
5.856		8689	10326
5.946		1092112	960117
5.992		6564	5499
6.028		4320	5049
6.105	DCB	240096	226661
6.142		15786	17835
6.236		4058	3666
6.278		44080	33422
6.308		87515	74262
6.37		7308	6071
6.486		3001	5378
6.523		9194	11453
6.582		20847	24497
6.726		3422	2197
6.829		4215	7216
6.905		2084	1908
6.945		4285	4551
7.007		20976	25224
7.116		4610	6039
7.231		2590	3491

RT B	Compound B	Height B	Area B
7.297		3203	6248
7.435		1718	4518
7.456		4206	5415
7.55		31268	39511
7.591		3126	4453
7.712		2919	3641
7.833		4229	9106
8.107		12408	21675
8.213		18760	32800
8.424		32344	60434

8998246ACF DF100 AD42A11 T 171380028A 10225 SW-846 8082

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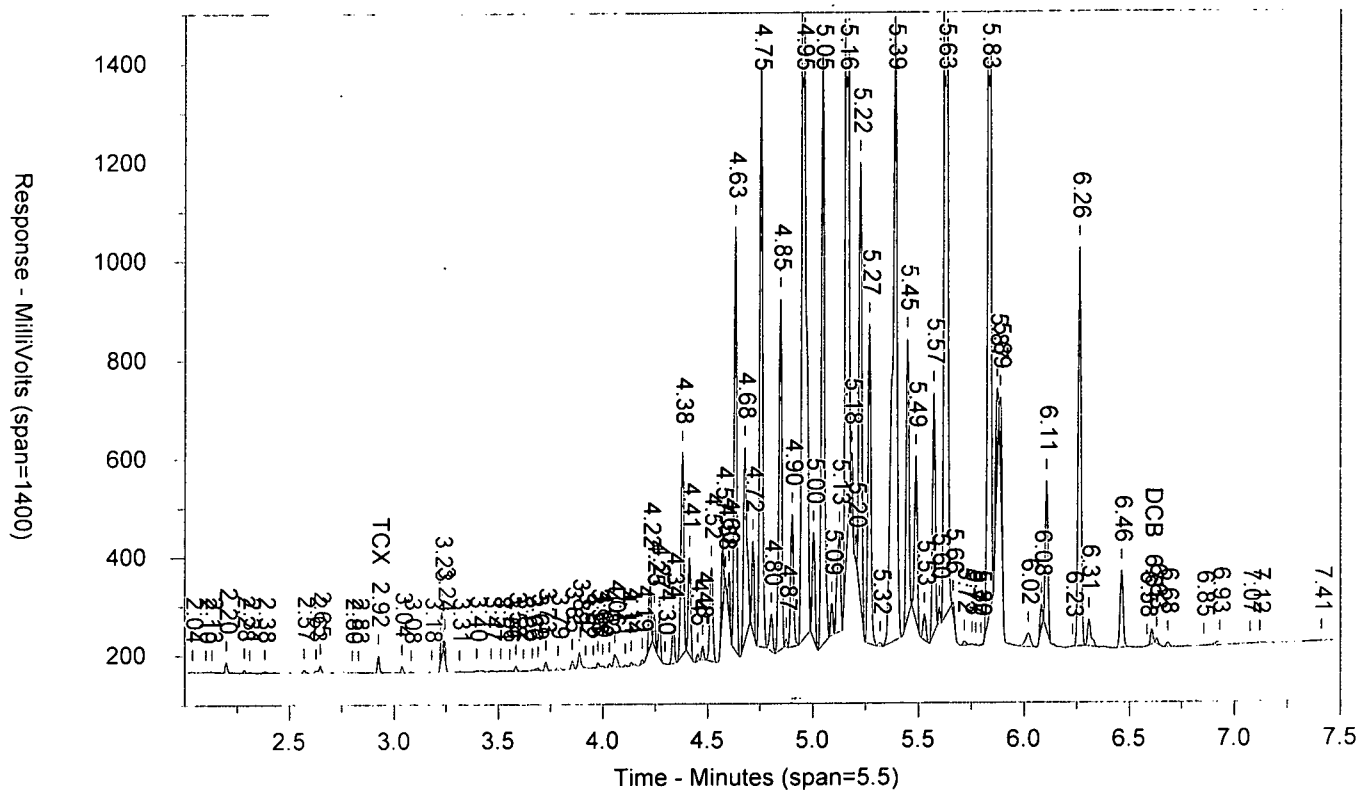

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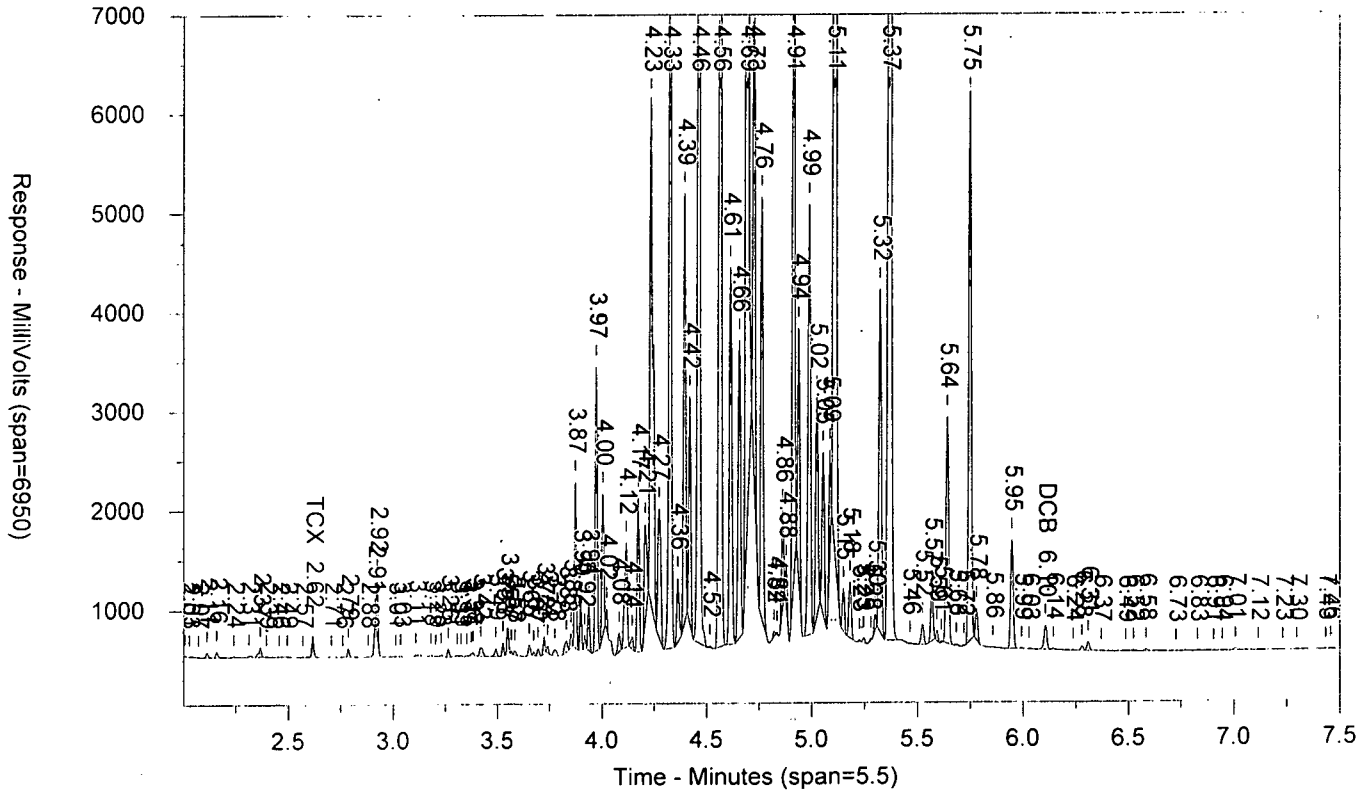

LANCASTER LABORATORIES

Sample Number: 8998246ACF DF100 AD42A11 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 5:57:23 PM Sample Weight: 10.33
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	34792	29.638	TCX	2.616	217672	30.481	TCX
6.608	30944	43.53	DCB	6.105	240096	47.709	DCB

Files:
Area File: 20pcbs17137004.023.RAW
Area File: 20pcbs17137004B.023.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 6:06:08 PM
File Reported On: 5/21/2017 at 6:06:25 PM

8998246ACF DF100 AD42A11 T 171380028A 10225 SW-846 8082

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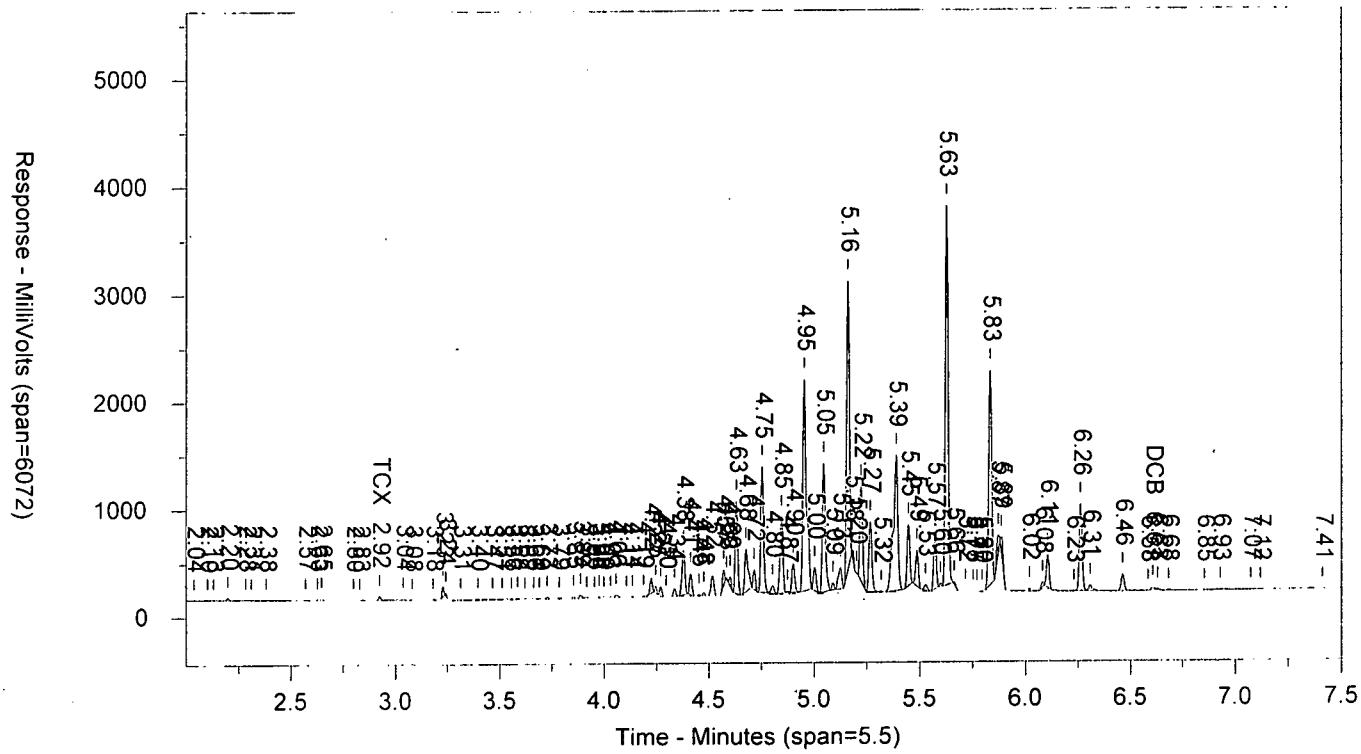

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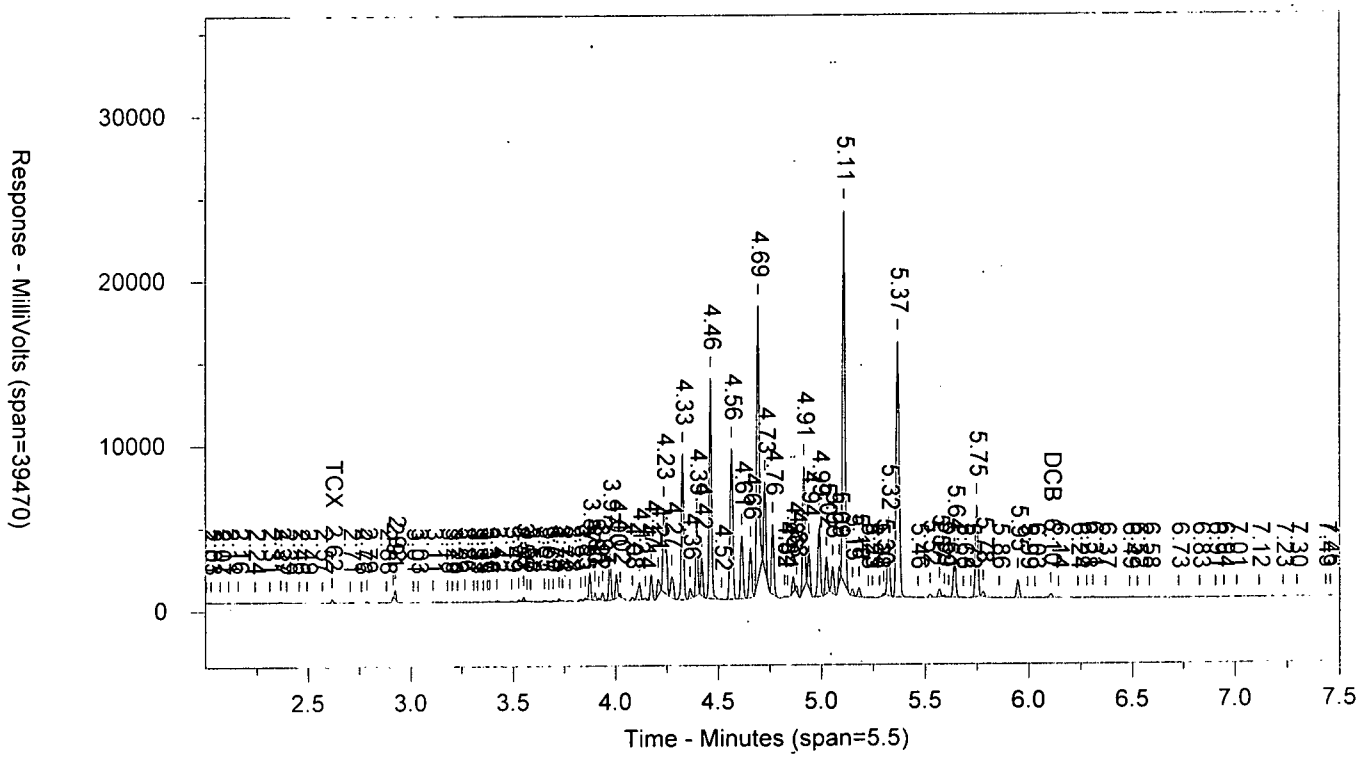

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Data Summary

Sample Name: 8998247 RI ACF 42A12 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.26 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 18:08:41
Instrument	17342A
Result file	20PCBS17137004.024.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 94% (61 - 152) Conc: 26.79172
%SSR(DCB) 103% (48 - 164) Conc: 29.40085

Analysis Report (B)

Injected on	May 21, 2017 18:08:41
Instrument	17342B
Result file	20PCBS17137004B.024.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 93% (61 - 152) Conc: 26.42873
%SSR(DCB) 88% (48 - 164) Conc: 25.19694

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3123785	26.79172
Decachlorobiphenyl	6.58	6.61	6.64	2075865	29.40085

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	18745450	26.42873
Decachlorobiphenyl	6.08	6.11	6.14	12594570	25.19694

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	26.79172				1.36	
☑	Decachlorobiphenyl	A	29.40085				15.40	

Multiple Component Data

Aroclor-1260 — %RSD 10.02

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	1322857	307.649931			1
5.03	5.05	5.07	811794.1	341.685713			2
5.20	5.23	5.24	961551.6	345.644277			3
5.37	5.39	5.41	1168380	368.090672			4
5.61	5.63	5.65	3131120	406.93022			5
5.82	5.84	5.86	1690566	391.11055			6

Height summation: **9086268.7**
Concentration CF: **360.185227** L:

Aroclor-1260 — %RSD 13.53

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	7934986	273.924269			1
4.44	4.46	4.48	9702804	284.034205			2
4.55	4.57	4.59	7239693	263.409341			3
4.90	4.92	4.94	6207774	293.834618			4
5.09	5.11	5.13	17573770	366.541507			5
5.35	5.37	5.39	10991830	342.712689			6

Height summation: **59650857**
Concentration CF: **304.076105** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<49.7076	<9.6491			4	
☑	PCB-1221			<49.7076	<14.9123			3	
☑	PCB-1232			<49.7076	<11.9883			4	
☑	PCB-1242			<49.7076	<11.9883			4	
☑	PCB-1248			<49.7076	<9.6491			4	
☑	PCB-1254			<49.7076	<12.8655			4	
☑	PCB-1260	A	360.185227	49.7076	11.4035		16.89	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by:
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998247** RI ACF 42A12 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.26 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.024.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 94% (61-152) Conc.: 26.79172
%SSR(DCB) : 103% (48-164) Conc.: 29.40085

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**37.94**	
3.16	3.19	3.20	2399.65	1.139856			1
3.37	3.39	3.41	4971.205	2.312537			2
3.71	3.73	3.75	10131.22	3.778334			4
3.76	3.79	3.80	7290.585	3.324208			5
3.96	3.98	4.00	5183.746	2.947756			6
Height Summation:			**29976.406**				
Amount Avg CF:			**2.700538**	Linear:			
Aroclor-1221					**3**	**87.56**	
3.06	3.08	3.10	1776.266	1.76134			1
3.11	3.12	3.15	4492.236	5.152601			2
3.16	3.19	3.20	2399.65	0.851989			3
Height Summation:			**8668.152**				
Amount Avg CF:			**2.588643**	Linear:			
Aroclor-1232					**5**	**51.88**	
3.16	3.19	3.20	2399.65	0.949811			1
3.38	3.39	3.42	4971.205	4.889985			2
+ 3.38	3.42	3.42	1161.843	1.142861			2
3.71	3.73	3.75	10131.22	8.372486			4
3.77	3.79	3.81	7290.585	7.685047			5
3.96	3.98	4.00	5183.746	7.068686			6
+ 3.96	4.00	4.00	1708.159	2.329289			6
Height Summation:			**29976.406**				
Amount Avg CF:			**5.793203**	Linear:			
Aroclor-1242					**5**	**39.42**	
3.16	3.19	3.20	2399.65	1.33055			1
3.38	3.39	3.42	4971.205	2.791376			2
+ 3.38	3.42	3.42	1161.843	0.652385			2
3.71	3.73	3.75	10131.22	4.618215			4
3.77	3.79	3.81	7290.585	4.244645			5
3.96	3.98	4.00	5183.746	3.691806			6
Height Summation:			**29976.406**				
Amount Avg CF:			**3.335318**	Linear:			
Aroclor-1248					**6**	**172.09**	
3.76	3.79	3.80	7290.585	6.122684			1
3.83	3.86	3.87	11972.86	5.528934			2
3.96	3.98	4.00	5183.746	2.032624			3
+ 4.05	4.06	4.09	10429.62	4.919574			4
4.05	4.08	4.09	48352.65	22.807586			4
4.23	4.23	4.27	121065.1	48.206045			5
+ 4.23	4.25	4.27	17260.88	6.872986			5
4.61	4.63	4.65	449130.1	243.959871			6
Height Summation:			**642995.041**				
Amount Avg CF:			**54.776291**	Linear:			
Aroclor-1254					**6**	**119.14**	
4.21	4.23	4.25	121065.1	40.886008			1
4.55	4.59	4.59	219000.8	73.594853			2
4.61	4.63	4.65	449130.1	74.728952			3
4.73	4.76	4.77	1322857	733.299356			4
4.83	4.85	4.87	253500.2	63.826101			5
5.14	5.16	5.18	2082503	510.432539			6
Height Summation:			**4448056.2**				
Amount Avg CF:			**249.461301**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.024.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 93% (61-152) Conc.: 26.42873
%SSR(DCB) : 88% (48-164) Conc.: 25.19694

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**51.48**	
+ 2.88	2.88	2.92	4960.138	0.427538			1
2.88	2.91	2.92	106627.9	9.190776			1
+ 3.21	3.22	3.25	5554.225	0.385243			2
+ 3.21	3.23	3.25	7133.177	0.49476			2
3.21	3.24	3.25	85687.17	5.943299			2
+ 3.40	3.41	3.44	8228.208	0.567969			3
3.40	3.43	3.44	27883.54	1.924717			3
3.47	3.49	3.51	68381.62	3.991373			4
3.63	3.65	3.67	55923.38	3.885094			5
3.72	3.73	3.76	107256.6	8.695673			6
+ 3.72	3.74	3.76	26845.3	2.176444			6
+ 3.72	3.76	3.76	9195.226	0.74549			6
Height Summation:			**451760.21**				
Amount Avg CF:			**5.605155**	Linear:			
Aroclor-1221					**3**	**93.30**	
2.77	2.79	2.81	175399.9	28.647464			1
2.83	2.84	2.87	22367.24	5.926194			2
+ 2.88	2.88	2.92	4960.138	0.316798			3
2.88	2.91	2.92	106627.9	6.810202			3
Height Summation:			**304395.04**				
Amount Avg CF:			**13.79462**	Linear:			
Aroclor-1232					**6**	**179.48**	
+ 2.88	2.88	2.92	4960.138	0.349951			1
2.88	2.91	2.92	106627.9	7.522873			1
+ 3.21	3.22	3.25	5554.225	0.810803			2
+ 3.21	3.23	3.25	7133.177	1.041297			2
3.21	3.24	3.25	85687.17	12.508567			2
+ 3.40	3.41	3.44	8228.208	1.342578			3
3.40	3.43	3.44	27883.54	4.549694			3
3.47	3.49	3.51	68381.62	9.081797			4
3.66	3.67	3.70	380646.1	185.113396			5
+ 3.66	3.70	3.70	41736.45	20.297006			5
3.73	3.73	3.77	107256.6	19.895168			6
+ 3.73	3.74	3.77	26845.3	4.97957			6
+ 3.73	3.76	3.77	9195.226	1.705635			6
Height Summation:			**776482.93**				
Amount Avg CF:			**39.778583**	Linear:			
Aroclor-1242					**6**	**98.41**	
+ 2.88	2.88	2.92	4960.138	0.497235			1
2.88	2.91	2.92	106627.9	10.689032			1
+ 3.21	3.22	3.25	5554.225	0.466217			2
+ 3.21	3.23	3.25	7133.177	0.598752			2
3.21	3.24	3.25	85687.17	7.192504			2
+ 3.40	3.41	3.44	8228.208	0.70234			3
3.40	3.43	3.44	27883.54	2.380073			3
3.47	3.49	3.51	68381.62	5.107041			4
+ 3.64	3.65	3.68	55923.38	5.072715			5
3.64	3.67	3.68	380646.1	34.527761			5
3.73	3.73	3.77	107256.6	10.861655			6
+ 3.73	3.74	3.77	26845.3	2.718568			6
+ 3.73	3.76	3.77	9195.226	0.931182			6
Height Summation:			**776482.93**				
Amount Avg CF:			**11.793011**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998247** RI ACF 42A12 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.26 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.024.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	10.02	
4.73	4.76	4.77	1322857	307.649931			1
5.03	5.05	5.07	811794.1	341.685713			2
5.20	5.23	5.24	961551.6	345.644277			3
5.37	5.39	5.41	1168380	368.090672			4
5.61	5.63	5.65	3131120	406.93022			5
5.82	5.84	5.86	1690566	391.11055			6
Height Summation:			**9086268.7**				
Amount Avg CF:			**360.185227**	Linear:			
Aroclor-1262					6	43.62	
5.21	5.23	5.24	961551.6	187.730147			1
E 5.37	5.39	5.41	1168380	282.365018			2
E 5.61	5.63	5.65	3131120	313.078888			3
E 5.81	5.84	5.85	1690566	305.871094			4
+ 5.87	5.88	5.91	83702.43	30.57048			5
5.87	5.89	5.91	151130.5	55.197107			5
E 6.25	6.27	6.29	685861.7	205.90075			6
Height Summation:			**7788609.8**				
Amount Avg CF:			**225.023834**	Linear:			
Aroclor-1268					6	120.35	
5.81	5.84	5.85	1690566	137.552057			1
+ 5.87	5.88	5.91	83702.43	7.805494			2
5.87	5.89	5.91	151130.5	14.093357			2
6.00	6.02	6.04	84402.92	8.440897			3
6.07	6.09	6.11	58135.61	25.359694			4
6.25	6.27	6.29	685861.7	166.06032			5
6.45	6.46	6.49	249574.6	7.721555			6
Height Summation:			**2919671.33**				
Amount Avg CF:			**59.871313**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.024.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	176.43	
+ 3.40	3.41	3.44	8228.208	1.440081			1
3.40	3.43	3.44	27883.54	4.880108			1
3.51	3.53	3.55	66735.3	4.141186			2
3.63	3.65	3.67	55923.38	2.777619			3
3.72	3.73	3.76	107256.6	7.377804			4
+ 3.72	3.74	3.76	26845.3	1.846594			4
+ 3.72	3.76	3.76	9195.226	0.632507			4
+ 3.86	3.86	3.90	14268.76	0.51819			5
3.86	3.87	3.90	838142.8	30.438303			5
+ 4.22	4.22	4.26	743902.8	61.102639			6
+ 4.22	4.24	4.26	1159482	95.237455			6
4.22	4.25	4.26	1891652	155.376386			6
Height Summation:			**2987593.62**				
Amount Avg CF:			**34.165234**	Linear:			
Aroclor-1254					6	122.22	
4.16	4.17	4.19	588298.4	27.427445			1
+ 4.22	4.22	4.26	743902.8	19.546283			2
+ 4.22	4.24	4.26	1159482	30.465759			2
4.22	4.25	4.26	1891652	49.703759			2
4.31	4.33	4.35	7934986	448.194526			3
4.38	4.40	4.42	1059620	41.416891			4
4.44	4.46	4.48	9702804	658.56901			5
4.60	4.62	4.64	1623298	90.439717			6
Height Summation:			**22800658.4**				
Amount Avg CF:			**219.291891**	Linear:			
Aroclor-1260					6	13.53	
4.31	4.33	4.35	7934986	273.924269			1
4.44	4.46	4.48	9702804	284.034205			2
4.55	4.57	4.59	7239693	263.409341			3
4.90	4.92	4.94	6207774	293.834618			4
5.09	5.11	5.13	17573770	366.541507			5
5.35	5.37	5.39	10991830	342.712689			6
Height Summation:			**59650857**				
Amount Avg CF:			**304.076105**	Linear:			
Aroclor-1262					6	33.17	
4.71	4.73	4.75	4886200	146.93043			1
4.90	4.92	4.94	6207774	187.656488			2
E 5.09	5.11	5.13	17573770	279.293595			3
5.31	5.33	5.35	2961034	113.566349			4
E 5.35	5.37	5.39	10991830	261.9134			5
5.73	5.75	5.77	4056792	178.61573			6
Height Summation:			**46677400**				
Amount Avg CF:			**194.662665**	Linear:			
Aroclor-1268					6	109.80	
5.31	5.33	5.35	2961034	34.870428			1
5.35	5.37	5.39	10991830	127.851765			2
5.51	5.52	5.55	640244.2	8.668258			3
5.57	5.59	5.61	307524.6	17.220758			4
5.73	5.75	5.77	4056792	140.183811			5
5.93	5.95	5.97	1499731	6.818817			6
Height Summation:			**20457155.8**				
Amount Avg CF:			**55.93564**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			49.7076	9.6491		** 69.94	4	40	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998247** RI ACF 42A12 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.26 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.024.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 18:08:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.024.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1221			49.7076	14.9123		** 136.80	3	5	
Aroclor-1232			49.7076	11.9883		** 149.15	4	10	
Aroclor-1242			49.7076	11.9883		** 111.81	4	30	
Aroclor-1248			49.7076	9.6491		** 46.35	4	40	
Aroclor-1254			49.7076	12.8655		12.87	4	40	
Aroclor-1260			49.7076	11.4035		16.89	4	40	
Aroclor-1262			49.7076	9.6491	E	14.47	4	40	
Aroclor-1268			49.7076	9.6491		6.80	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998247 RI ACF AB42A12 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:08:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.024.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.005		7094	3287
2.039		6445	8537
2.1		8494	9782
2.13		116095	75185
2.198		8415	5219
2.218		10525	8691
2.281		2712	2694
2.31		84016	67744
2.386		11715	18298
2.429		1633	1867
2.493		2126	4128
2.524		699	465
2.57		4647	4187
2.648		44486	46487
2.709		3826	5341
2.732		4218	3218
2.785		1579	663
2.801		2875	1914
2.829		1091	854
2.888		3478	5326
2.925	TCX	3123785	2109226
2.977		3173	1936
3.009		2647	2984
3.037		38776	23825
3.079		1776	2627
3.109		1520	708
3.124		4492	2381
3.191		2400	2958
3.236		255454	243463
3.316		5647	6944
3.351		2206	1766
3.395		4971	5773
3.415		1162	806
3.465		1843	2035
3.536		3186	3086
3.557		1969	1117
3.587		13990	8595
3.634		1167	958
3.656		5763	5866
3.693		1638	1991
3.729		10131	8781
3.789		7291	9904
3.831		1422	932
3.855		11973	8879
3.889		28836	24168
3.928		2204	2811
3.949		4718	4413
3.978		5184	3319
3.999		1708	1484
4.034		3083	2041
4.059		10430	6669
4.08		48353	35206
4.109		2459	1823
4.139		8923	9329

RT A	Compound A	Height A	Area A
4.19		8672	6119
4.226		121065	95750
4.246		17261	8683
4.271		34780	26346
4.302		1373	1163
4.337		43603	35258
4.38		198753	194005
4.414		108807	89755
4.454		7530	5474
4.477		13917	9673
4.518		124802	126727
4.587		219001	343335
4.634		449130	400733
4.679		531526	605131
4.716		137067	100933
4.756		1322857	1202394
4.804		24294	27913
4.846		253500	276880
4.877		19448	12252
4.904		261548	247034
4.955		1627453	2060204
5.005		282584	252468
5.048		811794	854753
5.091		42790	29643
5.127		175067	213129
5.163		2082503	2011483
5.186		42166	19950
5.203		14530	5400
5.226		961552	850499
5.269		682012	675572
5.323		2917	1739
5.391		1168381	1618220
5.449		546575	491629
5.489		340073	318253
5.529		78930	78127
5.575		305393	281080
5.602		48012	29272
5.63		3131120	3082472
5.719		12337	21265
5.789		2803	3244
5.837		1690566	1735521
5.877		83702	128158
5.888		151131	130121
6.021		84403	122098
6.086		58136	45891
6.108		275416	237862
6.175		7014	6925
6.209		2376	4172
6.265		685862	675688
6.31		46461	45819
6.465		249575	261935
6.521		1728	1415
6.61	DCB	2075865	2342394
6.684		4198	3563
6.829		817	729
6.855		2338	1570
6.886		2848	2496
6.919		4539	5488
6.967		3715	4365
7.049		1392	1579
7.08		6981	10932
7.243		898	1449
7.302		1710	3271
7.373		2329	2765
7.433		2945	4090
7.579		849	975

RT A	Compound A	Height A	Area A
7.695		1426	3714
7.724		2086	2345
7.774		38769	56959
7.822		3212	4754
7.895		2667	2971
7.933		1410	1252
7.956		1774	1850
8.024		152512	240251
8.383		1815	6617
8.586		2921	4911
8.68		4242	5199

LANCASTER LABORATORIES

Sample Number: 8998247 RI ACF AB42A12 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:08:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.024.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		26679	15866
2.051		42121	59343
2.068		22644	13378
2.103		15982	16440
2.115		49882	41129
2.159		29462	29637
2.185		15290	9587
2.212		31637	24678
2.228		20220	8201
2.257		29429	40007
2.29		16581	14774
2.313		12411	6979
2.324		14782	10047
2.365		232692	199852
2.393		21261	21365
2.418		9010	3250
2.432		13292	6144
2.461		32336	40194
2.49		26841	18347
2.506		4828	1973
2.538		26303	44555
2.566		26181	15044
2.594		18459	13535
2.616	TCX	18745450	10775480
2.664		6858	3271
2.677		28090	13936
2.708		50313	77719
2.739		4453	1477
2.753		6656	3950
2.786		175400	96941
2.806		16423	11017
2.835		22367	12278
2.881		4960	2715
2.912		106628	53996
2.924		1114046	588839
2.949		23522	19248
2.989		14289	6029
3.011		8450	9647
3.032		14710	7906
3.047		8424	3253
3.072		24963	25788
3.109		26560	38204
3.152		12732	17243
3.19		13083	12292
3.218		5554	2090
3.23		7133	2859
3.244		85687	44784
3.265		57345	33541
3.289		3021	1754
3.32		60357	52233
3.362		16504	15940
3.407		8228	4771
3.426		27884	27828
3.453		11619	8224

RT B	Compound B	Height B	Area B
3.493		68382	70884
3.527		66735	37725
3.55		173198	98589
3.567		13943	5578
3.587		88939	78717
3.627		8185	4410
3.653		55923	43737
3.674		380646	228227
3.697		41736	30475
3.725		107257	61367
3.742		26845	12321
3.76		9195	4722
3.829		83951	87460
3.859		14269	10613
3.874		838143	541249
3.9		107662	63874
3.919		117406	63224
3.938		215218	135849
3.973		1122053	774636
4.005		622732	397871
4.023		147940	71968
4.043		27665	12928
4.083		70297	66841
4.117		492465	534414
4.175		588298	427330
4.217		743903	600158
4.235		1159482	560488
4.248		1891653	1047838
4.274		1265191	1238080
4.327		7934986	5939656
4.366		243261	258562
4.396		1059620	722623
4.421		1833070	1335579
4.463		9702804	7406416
4.517		22256	15223
4.567		7239693	6898652
4.618		1623298	1403113
4.658		2319809	1906035
4.694		11644380	9487885
4.726		4886200	3452109
4.765		3955676	3054849
4.808		8476	4230
4.837		216841	175917
4.864		883451	637673
4.881		156760	75185
4.915		6207775	4789196
4.939		1339184	852671
4.989		3533779	3184188
5.025		1863417	1478140
5.055		1261031	1012335
5.087		406872	251832
5.109		17573770	14449670
5.151		343480	255385
5.183		631000	520033
5.224		10212	7527
5.247		9581	4960
5.263		5270	2182
5.301		143687	90114
5.325		2961034	2363824
5.369		10991830	11148410
5.415		10751	6689
5.442		20325	14303
5.471		6747	5888
5.525		640244	555492
5.57		315456	237268
5.593		307525	214236

RT B	Compound B	Height B	Area B
5.615		58251	32862
5.642		1640433	1424478
5.687		25846	20346
5.721		19310	12471
5.749		4056792	3326174
5.78		252021	188636
5.859		9927	15366
5.889		6172	3677
5.948		1499731	1302600
5.977		4100	2414
6.003		10251	8349
6.041		11392	15239
6.107	DCB	12594570	11095360
6.193		4896	4749
6.286		19067	12795
6.309		594878	490005
6.343		20447	15993
6.374		17098	15073
6.416		6230	6400
6.473		3858	4054
6.526		50116	75784
6.602		9027	14167
6.617		13000	7588
6.649		2856	2789
6.683		5421	5247
6.727		27634	36347
6.755		12401	8328
6.783		43121	46410
6.836		5930	5426
6.905		9062	11949
6.942		8297	11514
7.009		246867	243246
7.058		4739	3902
7.118		28577	30798
7.225		1800	1720
7.26		10930	10790
7.305		4291	4741
7.336		6513	9654
7.459		37891	92328
7.506		7139	7739
7.552		803735	973401
7.646		4173	6175
7.715		5754	8882
7.758		9296	13647
7.856		7882	20126
7.976		19051	32832
8.038		6938	10290
8.099		4698	7277
8.156		5689	7496
8.211		18881	35914
8.357		6911	13709
8.451		7206	20557
8.571		12202	19900
8.621		13425	19778
8.676		5464	6548

8998247 RI ACF AB42A12 T 171380028A 10225 SW-846 8082

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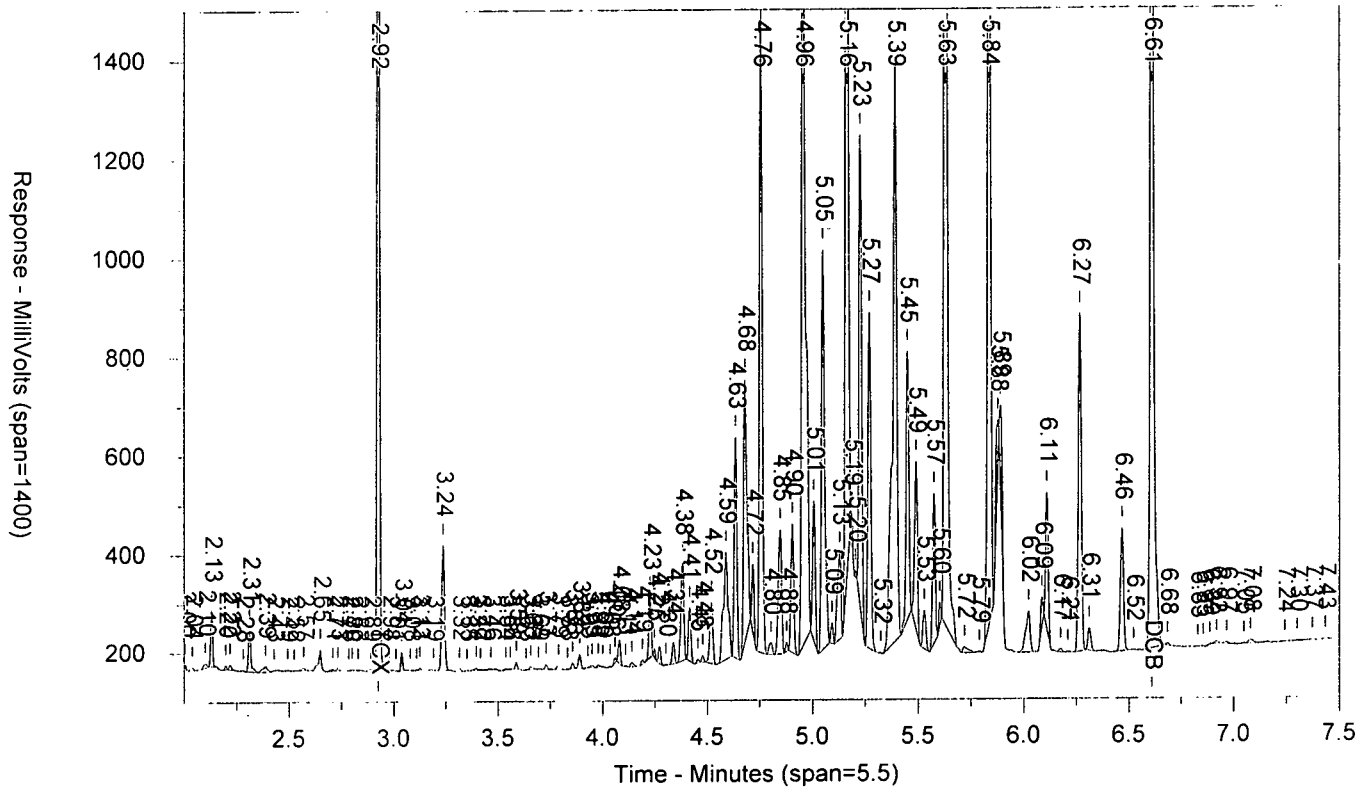

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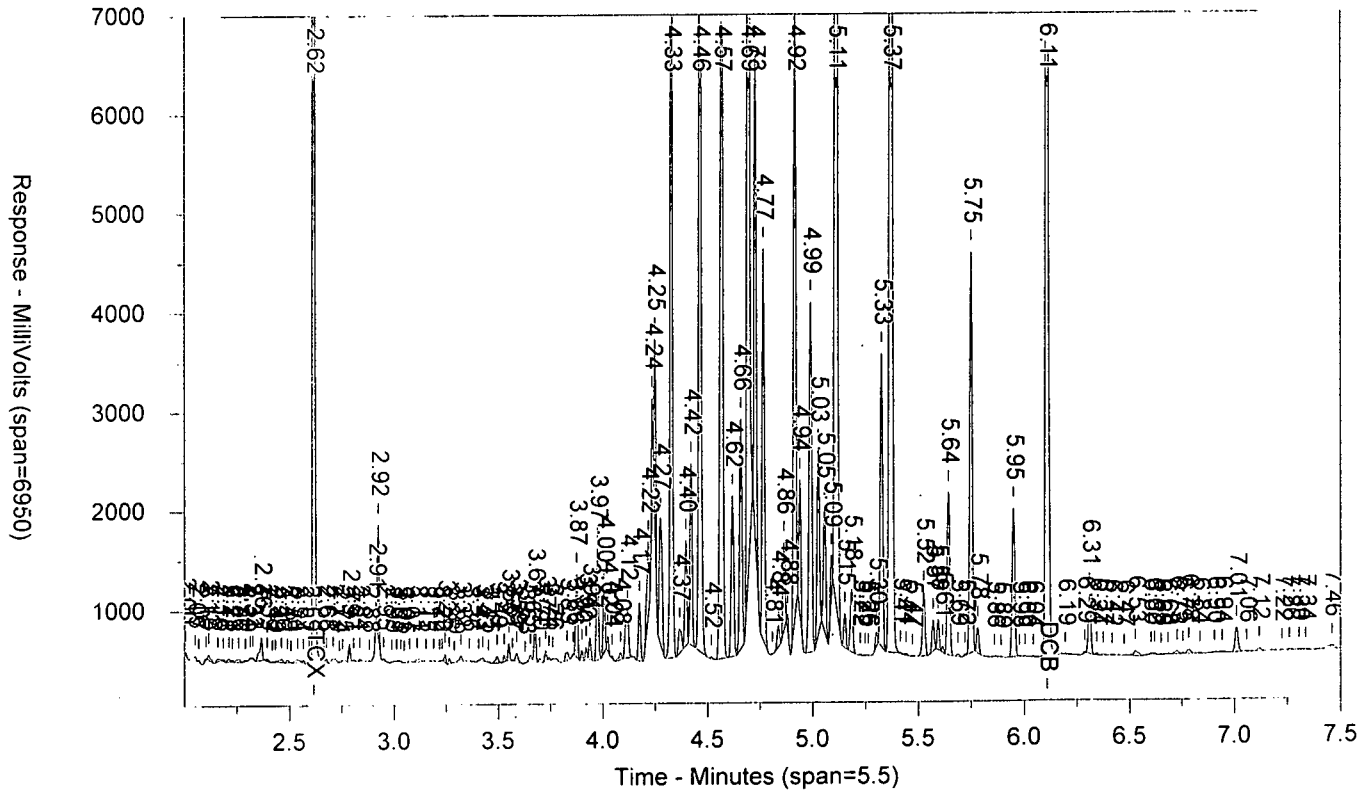

LANCASTER LABORATORIES

Sample Number: 8998247 RI ACF AB42A12 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:08:41 PM Sample Weight: 10.26
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3123785	26.792	TCX	2.616	18745450	26.429	TCX
6.61	2075865	29.401	DCB	6.107	12594570	25.197	DCB

Files:
Area File: 20pcbs17137004.024.RAW
Area File: 20pcbs17137004B.024.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 6:17:25 PM
File Reported On: 5/21/2017 at 6:17:35 PM

8998247 RI ACF AB42A12 T 171380028A 10225 SW-846 8082

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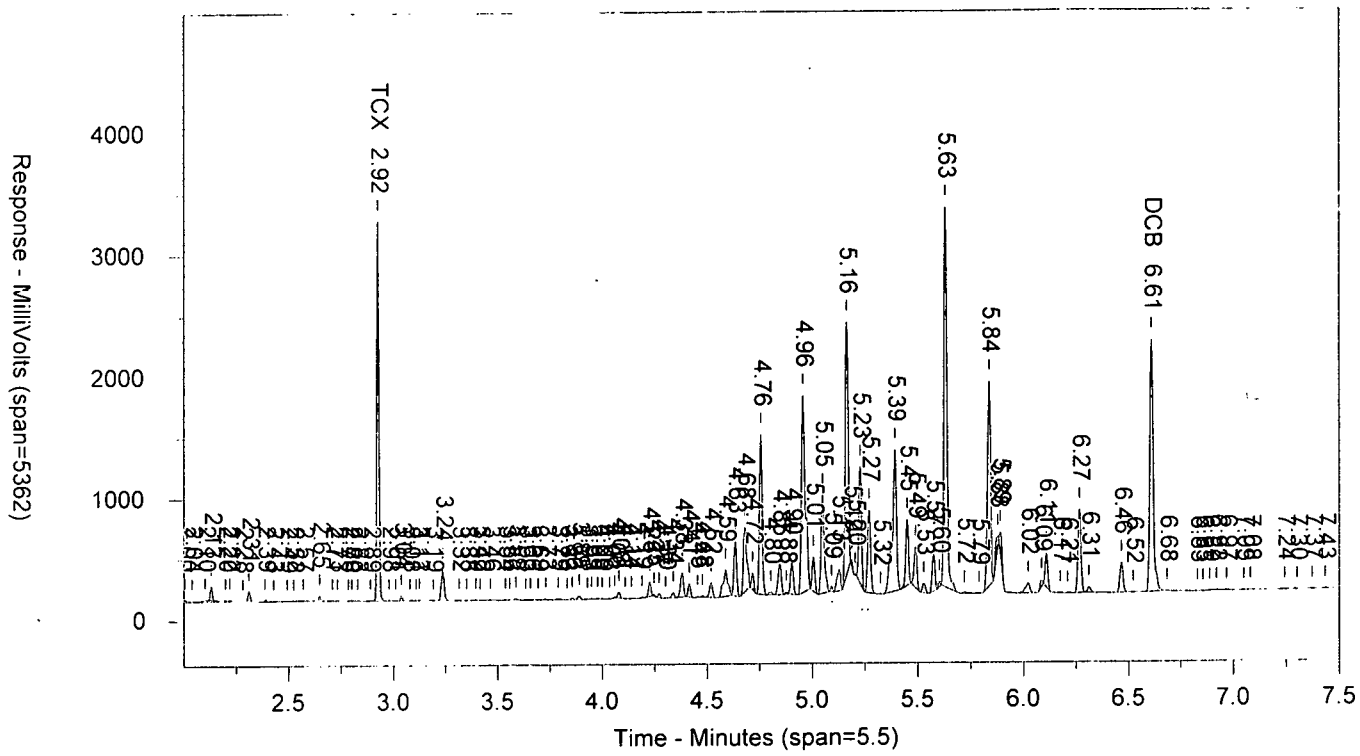

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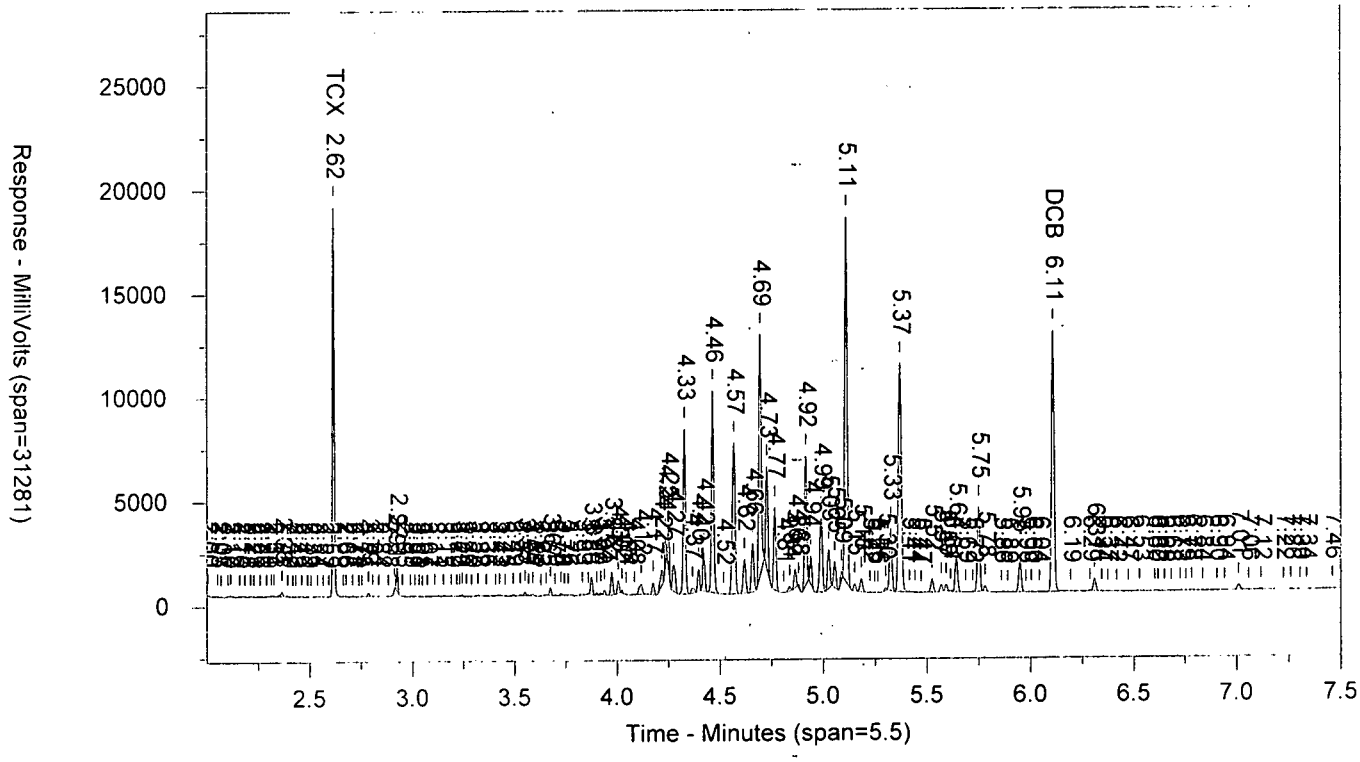

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Data Summary

Sample Name: 8998248 RI ACF 42A13 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.35 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 18:31:41
Instrument	17342A
Result file	20PCBS17137004.026.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 96% (61 - 152) Conc: 27.19076
%SSR(DCB) 98% (48 - 164) Conc: 27.82757

Analysis Report (B)

Injected on	May 21, 2017 18:31:41
Instrument	17342B
Result file	20PCBS17137004B.026.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 98% (61 - 152) Conc: 27.63318
%SSR(DCB) 99% (48 - 164) Conc: 27.8582

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3198121	27.19076
Decachlorobiphenyl	6.58	6.61	6.64	1982017	27.82757

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	19771670	27.63318
Decachlorobiphenyl	6.08	6.11	6.14	14046940	27.8582

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	27.63318				1.61	
☑ Decachlorobiphenyl	B	27.8582				0.11	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**19.20**	
4.73	4.76	4.77	197240.8	45.47238			1
5.03	5.05	5.07	169818.7	70.855481			2
5.20	5.23	5.24	139521.3	49.71693			3
5.37	5.39	5.41	137517.8	42.947375			4
5.61	5.63	5.65	451437.6	58.160077			5
5.82	5.84	5.86	260919.5	59.838535			6

Height summation: **1356455.7**
Concentration CF: **54.498463** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**7.44**	
4.31	4.33	4.35	1412842	48.348717			1
4.44	4.46	4.48	1865292	54.128654			2
4.55	4.57	4.59	1316603	47.486796			3
4.90	4.92	4.94	1072555	50.326143			4
5.09	5.11	5.13	2755381	56.970088			5
5.35	5.37	5.39	1780372	55.027268			6

Height summation: **10203045**
Concentration CF: **52.047944** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<49.2754	<9.5652			4	
☑ PCB-1221			<49.2754	<14.7826			3	
☑ PCB-1232			<49.2754	<11.8841			4	
☑ PCB-1242			<49.2754	<11.8841			4	
☑ PCB-1248			<49.2754	<9.5652			4	
☑ PCB-1254			<49.2754	<12.7536			4	
☑ PCB-1260	A	54.498463	49.2754	11.3043		4.60	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998248** RI ACF 42A13 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.35 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 18:31:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.026.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 96% (61-152) Conc.: 27.19076
%SSR(DCB) : 98% (48-164) Conc.: 27.82757

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	56.64	
3.16	3.19	3.20	2110.992	0.994021			1
3.37	3.40	3.41	1345.449	0.620442			2
3.49	3.51	3.53	991.7489	0.406219			3
3.71	3.74	3.75	5950.969	2.200054			4
3.76	3.79	3.80	3770.439	1.704216			5
3.96	3.98	4.00	3501.92	1.974063			6
Height Summation:			17671.5179				
Amount Avg CF:			1.316502	Linear:			
Aroclor-1221					3	113.53	
3.06	3.07	3.10	1150.853	1.131259			1
3.11	3.13	3.15	5501.209	6.255026			2
3.16	3.19	3.20	2110.992	0.742985			3
Height Summation:			8763.054				
Amount Avg CF:			2.709756	Linear:			
Aroclor-1232					6	70.81	
3.16	3.19	3.20	2110.992	0.828291			1
3.38	3.40	3.42	1345.449	1.311958			2
3.49	3.51	3.53	991.7489	0.881354			3
3.71	3.74	3.75	5950.969	4.875143			4
3.77	3.79	3.81	3770.439	3.939881			5
3.96	3.98	4.00	3501.92	4.733782			6
Height Summation:			17671.5179				
Amount Avg CF:			2.761735	Linear:			
Aroclor-1242					6	57.68	
3.16	3.19	3.20	2110.992	1.160317			1
3.38	3.40	3.42	1345.449	0.748912			2
3.49	3.51	3.53	991.7489	0.504143			3
3.71	3.74	3.75	5950.969	2.689101			4
3.77	3.79	3.81	3770.439	2.176096			5
3.96	3.98	4.00	3501.92	2.472341			6
Height Summation:			17671.5179				
Amount Avg CF:			1.625152	Linear:			
Aroclor-1248					6	173.36	
3.76	3.79	3.80	3770.439	3.138906			1
3.83	3.86	3.87	6832.267	3.12763			2
3.96	3.98	4.00	3501.92	1.361215			3
4.05	4.07	4.09	4964.446	2.32133			4
4.23	4.23	4.27	37652.07	14.862039			5
+ 4.23	4.25	4.27	11569.48	4.56671			5
4.61	4.64	4.65	136210.1	73.343656			6
Height Summation:			192931.242				
Amount Avg CF:			16.359129	Linear:			
Aroclor-1254					6	92.55	
4.21	4.23	4.25	37652.07	12.605254			1
4.55	4.57	4.59	41246.77	13.740378			2
4.61	4.64	4.65	136210.1	22.466377			3
4.73	4.76	4.77	197240.8	108.385746			4
4.83	4.85	4.87	105966.1	26.448069			5
5.14	5.17	5.18	368373.9	89.505264			6
Height Summation:			886689.74				
Amount Avg CF:			45.525182	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 18:31:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.026.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 98% (61-152) Conc.: 27.63318
%SSR(DCB) : 99% (48-164) Conc.: 27.8582

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	76.09	
2.88	2.91	2.92	32275.23	2.757768			1
+ 3.21	3.23	3.25	3801.404	0.261374			2
3.21	3.24	3.25	107595.1	7.397948			2
+ 3.40	3.41	3.44	24426.33	1.671415			3
3.40	3.43	3.44	30532.61	2.089248			3
3.47	3.49	3.51	11712.3	0.677692			4
3.63	3.65	3.67	34331.29	2.364315			5
+ 3.72	3.73	3.76	25925.49	2.083594			6
3.72	3.74	3.76	33958.39	2.729187			6
Height Summation:			250404.92				
Amount Avg CF:			3.002693	Linear:			
Aroclor-1221					3	75.21	
2.77	2.79	2.81	8135.502	1.317189			1
2.83	2.84	2.87	20778.09	5.457279			2
2.88	2.91	2.92	32275.23	2.043457			3
Height Summation:			61188.822				
Amount Avg CF:			2.939308	Linear:			
Aroclor-1232					6	78.15	
2.88	2.91	2.92	32275.23	2.2573			1
+ 3.21	3.23	3.25	3801.404	0.550101			2
3.21	3.24	3.25	107595.1	15.570095			2
+ 3.40	3.41	3.44	24426.33	3.950932			3
3.40	3.43	3.44	30532.61	4.938616			3
3.47	3.49	3.51	11712.3	1.54199			4
3.66	3.68	3.70	22726.69	10.956193			5
+ 3.73	3.73	3.77	25925.49	4.767136			6
3.73	3.74	3.77	33958.39	6.244213			6
Height Summation:			238800.32				
Amount Avg CF:			6.918068	Linear:			
Aroclor-1242					6	74.39	
2.88	2.91	2.92	32275.23	3.207332			1
+ 3.21	3.23	3.25	3801.404	0.316312			2
3.21	3.24	3.25	107595.1	8.952902			2
+ 3.40	3.41	3.44	24426.33	2.066844			3
3.40	3.43	3.44	30532.61	2.583529			3
3.47	3.49	3.51	11712.3	0.86712			4
3.64	3.65	3.68	34331.29	3.087054			5
+ 3.73	3.73	3.77	25925.49	2.602591			6
3.73	3.74	3.77	33958.39	3.408993			6
Height Summation:			250404.92				
Amount Avg CF:			3.684488	Linear:			
Aroclor-1248					6	141.99	
+ 3.40	3.41	3.44	24426.33	4.237862			1
3.40	3.43	3:44	30532.61	5.297275			1
3.51	3.53	3.55	60990.05	3.751761			2
3.63	3.65	3.67	34331.29	1.690349			3
+ 3.72	3.73	3.76	25925.49	1.767816			4
3.72	3.74	3.76	33958.39	2.315566			4
3.86	3.88	3.90	370921.6	13.353391			5
4.22	4.24	4.26	563688.2	45.897573			6
+ 4.22	4.25	4.26	177880.9	14.483719			6
Height Summation:			1094422.14				
Amount Avg CF:			12.050986	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998248** RI ACF 42A13 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.35 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 18:31:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.026.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	19.20	
4.73	4.76	4.77	197240.8	45.47238			1
5.03	5.05	5.07	169818.7	70.855481			2
5.20	5.23	5.24	139521.3	49.71693			3
+ 5.37	5.38	5.41	9252.761	2.889675			4
5.37	5.39	5.41	137517.8	42.947375			4
5.61	5.63	5.65	451437.6	58.160077			5
5.82	5.84	5.86	260919.5	59.838535			6
Height Summation:			**1356455.7**				
Amount Avg CF:			**54.498463**	Linear:			
Aroclor-1262					6	39.51	
5.21	5.23	5.24	139521.3	27.002809			1
+ 5.37	5.38	5.41	9252.761	2.216691			2
5.37	5.39	5.41	137517.8	32.945242			2
5.61	5.63	5.65	451437.6	44.746473			3
5.81	5.84	5.85	260919.5	46.797198			4
5.87	5.88	5.91	31455.27	11.38845			5
+ 5.87	5.89	5.91	21700.17	7.856595			5
6.25	6.27	6.29	110370	32.845769			6
Height Summation:			**1131221.47**				
Amount Avg CF:			**32.62099**	Linear:			
Aroclor-1268					6	89.45	
5.81	5.84	5.85	260919.5	21.04498			1
5.87	5.88	5.91	31455.27	2.907788			2
+ 5.87	5.89	5.91	21700.17	2.006007			2
6.00	6.02	6.04	40785.72	4.043396			3
6.07	6.09	6.11	34023.99	14.712756			4
6.25	6.27	6.29	110370	26.49033			5
6.45	6.47	6.49	48598.79	1.490517			6
Height Summation:			**526153.27**				
Amount Avg CF:			**11.781628**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 18:31:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.026.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	94.76	
4.16	4.18	4.19	270194.8	12.48739			1
4.22	4.24	4.26	563688.2	14.682295			2
+ 4.22	4.25	4.26	177880.9	4.633235			2
4.31	4.33	4.35	1412842	79.108107			3
4.38	4.40	4.42	593260.1	22.986852			4
4.44	4.46	4.48	1865292	125.504087			5
4.60	4.62	4.64	574218.7	31.713581			6
Height Summation:			**5279495.8**				
Amount Avg CF:			**47.747052**	Linear:			
Aroclor-1260					6	7.44	
4.31	4.33	4.35	1412842	48.348717			1
4.44	4.46	4.48	1865292	54.128654			2
4.55	4.57	4.59	1316603	47.486796			3
4.90	4.92	4.94	1072555	50.326143			4
5.09	5.11	5.13	2755381	56.970088			5
5.35	5.37	5.39	1780372	55.027268			6
Height Summation:			**10203045**				
Amount Avg CF:			**52.047944**	Linear:			
Aroclor-1262					6	30.93	
4.71	4.73	4.75	742361.7	22.129066			1
4.90	4.92	4.94	1072555	32.140621			2
5.09	5.11	5.13	2755381	43.409492			3
5.31	5.33	5.35	511632.5	19.45232			4
5.35	5.37	5.39	1780372	42.053823			5
5.73	5.75	5.77	734684.9	32.066022			6
Height Summation:			**7596987.1**				
Amount Avg CF:			**31.875224**	Linear:			
Aroclor-1268					6	79.97	
5.31	5.33	5.35	511632.5	5.972814			1
5.35	5.37	5.39	1780372	20.528371			2
5.51	5.53	5.55	282315.7	3.789031			3
5.57	5.60	5.61	315994.5	17.541185			4
5.73	5.75	5.77	734684.9	25.166525			5
5.93	5.95	5.97	312548	1.408703			6
Height Summation:			**3937547.6**				
Amount Avg CF:			**12.401105**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			49.2754	9.5652		** 78.08	4	40	
Aroclor-1221			49.2754	14.7826		8.13	3	5	
Aroclor-1232			49.2754	11.8841		** 85.88	4	10	
Aroclor-1242			49.2754	11.8841		** 77.57	4	30	
Aroclor-1248			49.2754	9.5652		30.33	4	40	
Aroclor-1254			49.2754	12.7536		4.76	4	40	
Aroclor-1260			49.2754	11.3043		4.60	4	40	
Aroclor-1262			49.2754	9.5652		2.31	4	40	
Aroclor-1268			49.2754	9.5652		5.12	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998248 RI ACF AB42A13 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:31:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.026.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.007		12549	6638
2.038		3170	3015
2.07		1031	372
2.104		6950	8550
2.131		183751	120072
2.199		7590	5632
2.219		9441	6002
2.241		2116	1156
2.286		1401	1035
2.311		44300	28267
2.389		12222	10879
2.446		714	350
2.543		776	695
2.565		2162	1679
2.588		1111	913
2.618		1612	1595
2.649		4653	3438
2.7		1085	758
2.744		17115	15467
2.785		1091	546
2.828		3662	2766
2.876		2140	1860
2.925	TCX	3198121	2118426
2.995		1610	3007
3.041		2260	1532
3.075		1151	1754
3.108		2025	1246
3.126		5501	3414
3.192		2111	2338
3.231		12264	6628
3.244		5892	2858
3.336		2266	1490
3.395		1345	1131
3.453		1316	959
3.513		992	577
3.588		15025	11038
3.658		8760	7387
3.701		2526	2721
3.736		5951	5187
3.793		3770	3352
3.856		6832	5278
3.884		4296	3307
3.905		9468	5532
3.979		3502	2408
4.005		1057	668
4.035		1932	1605
4.066		4964	6470
4.113		3236	2610
4.14		1781	1202
4.193		2602	1894
4.229		37652	28134
4.249		11569	6466
4.272		20616	15022
4.299		3791	2852

RT A	Compound A	Height A	Area A
4.34		16792	13381
4.383		88528	89153
4.417		38355	31274
4.456		4004	2899
4.48		4503	2994
4.521		35281	36439
4.574		41247	44887
4.606		14413	8569
4.636		136210	119811
4.681		72388	85880
4.719		28963	20919
4.758		197241	186647
4.808		11531	10794
4.849		105966	104793
4.879		11161	7387
4.905		47626	42597
4.958		297619	368308
5.007		43587	38108
5.05		169819	180148
5.093		10502	7192
5.126		41969	54944
5.166		368374	348021
5.188		9976	4834
5.228		139521	131443
5.272		101441	101932
5.377		9253	12266
5.393		137518	114153
5.433		19181	14111
5.451		69703	53135
5.49		52615	47761
5.531		26733	26034
5.576		68961	64801
5.602		4533	2579
5.632		451438	493050
5.75		848	633
5.839		260920	271067
5.877		31455	31711
5.892		21700	13377
5.928		1366	1641
6.024		40786	43082
6.089		34024	29794
6.109		42327	35117
6.218		1941	2400
6.268		110370	114281
6.313		7329	7106
6.408		658	801
6.466		48599	49153
6.613	DCB	1982017	2147436
6.874		1627	6214
7.065		951	1520
7.225		1322	1920
7.728		3182	8188
8.03		3512	6444
8.197		577	1012

LANCASTER LABORATORIES

Sample Number: 8998248 RI ACF AB42A13 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:31:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.026.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		7165	6498
2.054		26252	12886
2.115		103023	64462
2.14		11771	6586
2.158		13311	7451
2.185		15798	9635
2.214		4752	2249
2.237		13856	13012
2.272		2682	1624
2.287		4233	4060
2.314		10730	9255
2.351		7511	8912
2.365		22692	11300
2.399		13957	10264
2.434		113899	63805
2.461		38865	20281
2.513		4853	3046
2.536		6688	4673
2.556		3750	1955
2.57		8229	4543
2.591		16748	10250
2.616	TCX	19771670	11455360
2.693		6183	3409
2.736		14222	7559
2.785		8136	4527
2.812		9610	12236
2.843		20778	26663
2.878		7989	4946
2.912		32275	13742
2.922		78138	33899
2.949		19656	9352
2.992		4826	4525
3.018		12272	6933
3.083		4180	3115
3.12		9873	9355
3.144		7823	5074
3.182		8317	10779
3.227		3801	2556
3.245		107595	60019
3.265		10493	6782
3.321		84527	60438
3.364		6665	5627
3.385		7784	2995
3.406		24426	16574
3.435		30533	18293
3.454		3133	1690
3.493		11712	11991
3.527		60990	35408
3.551		64777	34504
3.568		86969	45436
3.592		19812	15639
3.654		34331	28701
3.675		22727	17668
3.702		37564	31993

RT B	Compound B	Height B	Area B
3.727		25925	12836
3.743		33958	18880
3.781		17895	14805
3.805		1996	920
3.83		25687	25106
3.854		30221	17660
3.876		370922	240028
3.901		101077	56802
3.921		63493	34123
3.94		111737	67042
3.975		584293	398135
4.007		275373	177427
4.024		52069	23875
4.044		17214	9446
4.084		33627	42534
4.119		190128	168532
4.15		22366	19029
4.175		270195	192032
4.21		158040	142209
4.236		563688	333654
4.249		177881	85792
4.275		236435	229499
4.328		1412842	1141985
4.366		98315	82292
4.398		593260	424043
4.422		361371	236674
4.44		25906	10442
4.464		1865293	1450231
4.519		7194	6239
4.567		1316603	1275116
4.617		574219	490733
4.658		408946	376118
4.696		2193567	1863087
4.728		742362	543601
4.766		644860	498472
4.84		273401	236471
4.866		125643	79247
4.882		52846	29212
4.917		1072555	819066
4.941		340198	232059
4.991		638689	569091
5.027		323920	268458
5.058		287802	260357
5.089		125320	75470
5.111		2755381	2323264
5.152		59368	41608
5.184		291244	249753
5.247		5076	3538
5.304		25817	16108
5.326		511633	420788
5.372		1780372	2029817
5.471		11374	10806
5.527		282316	242509
5.572		50695	34118
5.596		315995	259207
5.644		392566	346411
5.75		734685	615084
5.782		41652	30452
5.865		2246	1954
5.95		312548	268776
5.981		3810	2606
6.108	DCB	14046940	12226240
6.283		4566	4214
6.31		20349	21631
6.485		2687	1808
6.532		8754	10062

RT B	Compound B	Height B	Area B
6.594		4940	12196
6.72		2474	3631
6.785		14733	16379
6.954		1077	5264
7.19		2582	4910
7.426		4092	15471
7.553		14630	20603
7.732		1467	4145
7.779		1746	1156
7.935		1777	3524
8.115		3240	5217
8.212		19184	36332
8.433		3288	6157

8998248 RI ACF AB42A13 T 171380028A 10225 SW-846 8082

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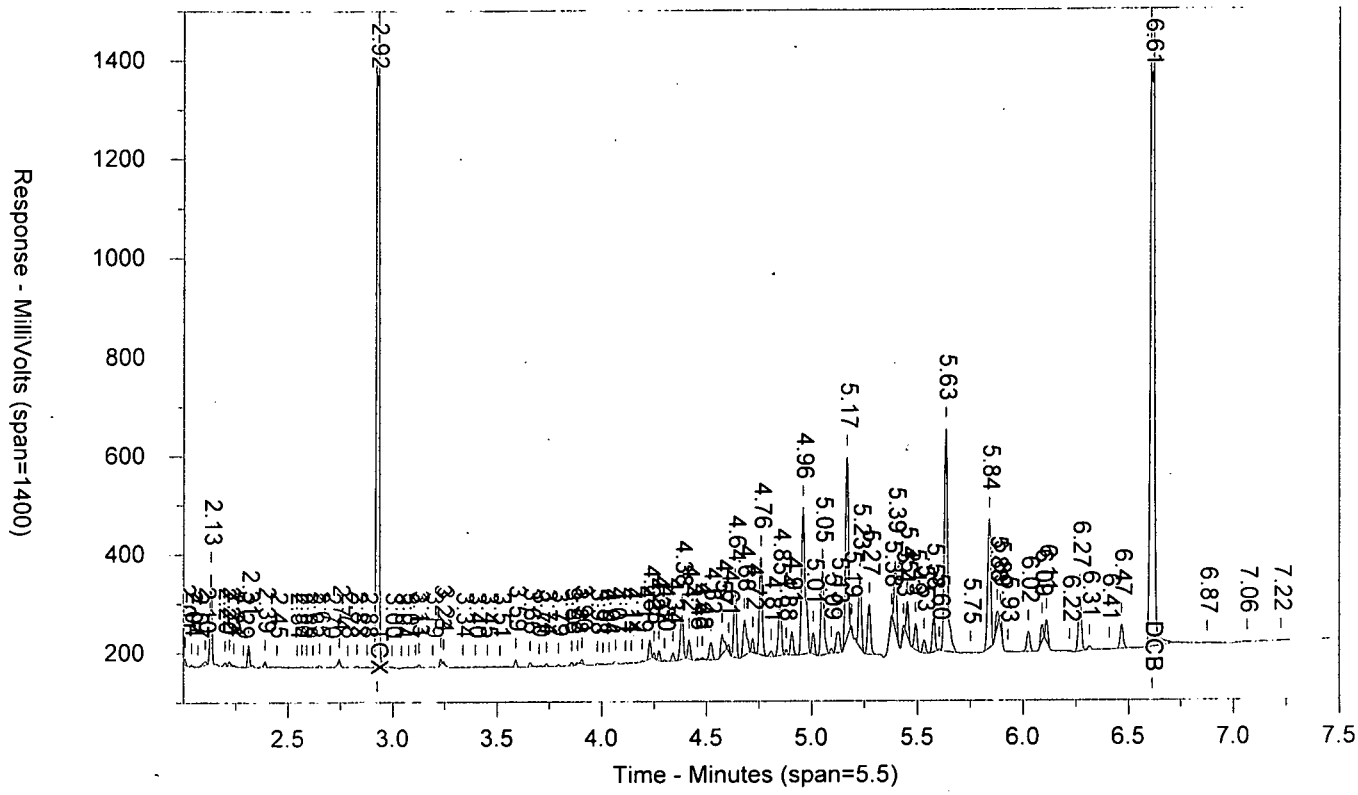

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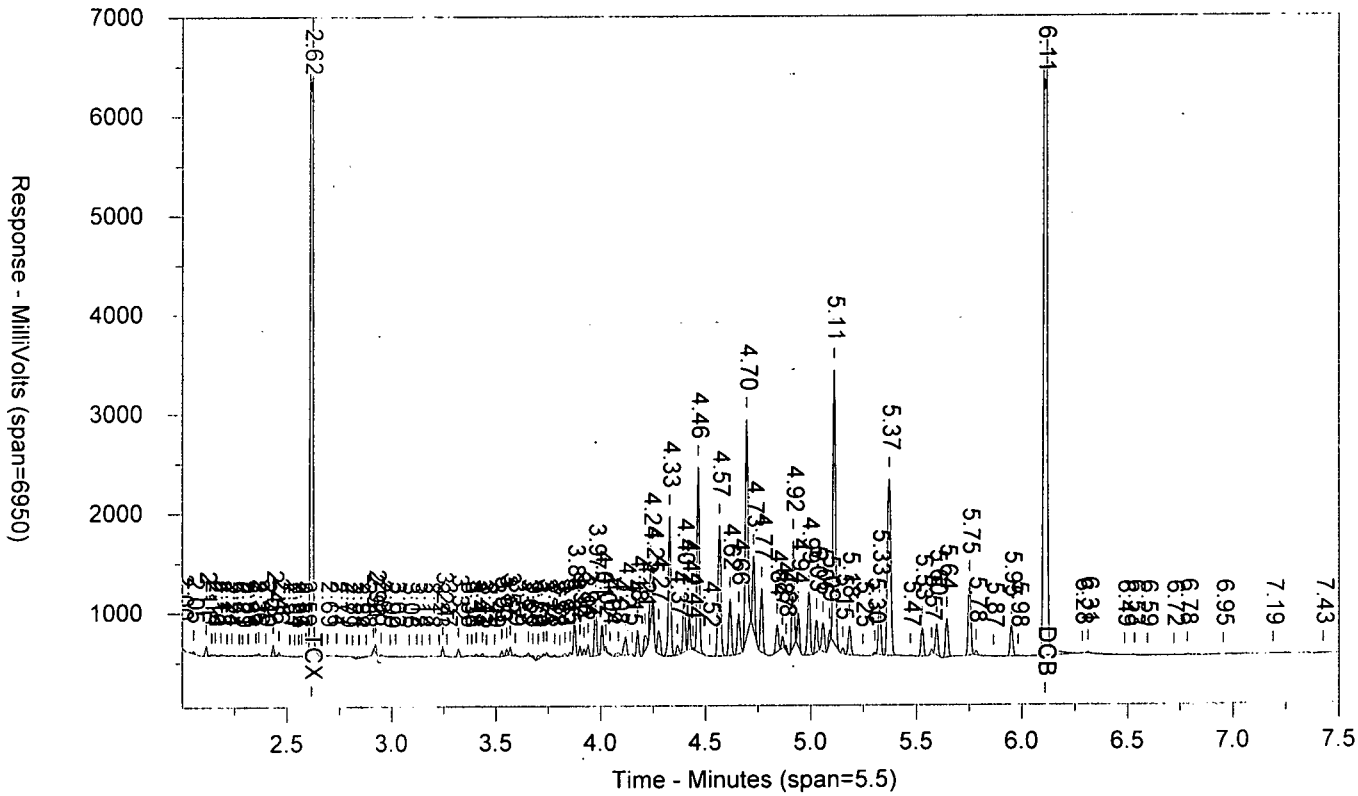

LANCASTER LABORATORIES

Sample Number: 8998248 RI ACF AB42A13 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 6:31:41 PM Sample Weight: 10.35
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3198121	27.191	TCX	2.616	19771670	27.633	TCX
6.613	1982017	27.828	DCB	6.108	14046940	27.858	DCB

Files:
Area File: 20pcbs17137004.026.RAW
Area File: 20pcbs17137004B.026.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 6:40:25 PM
File Reported On: 5/21/2017 at 6:40:40 PM

8998248 RI ACF AB42A13 T 171380028A 10225 SW-846 8082

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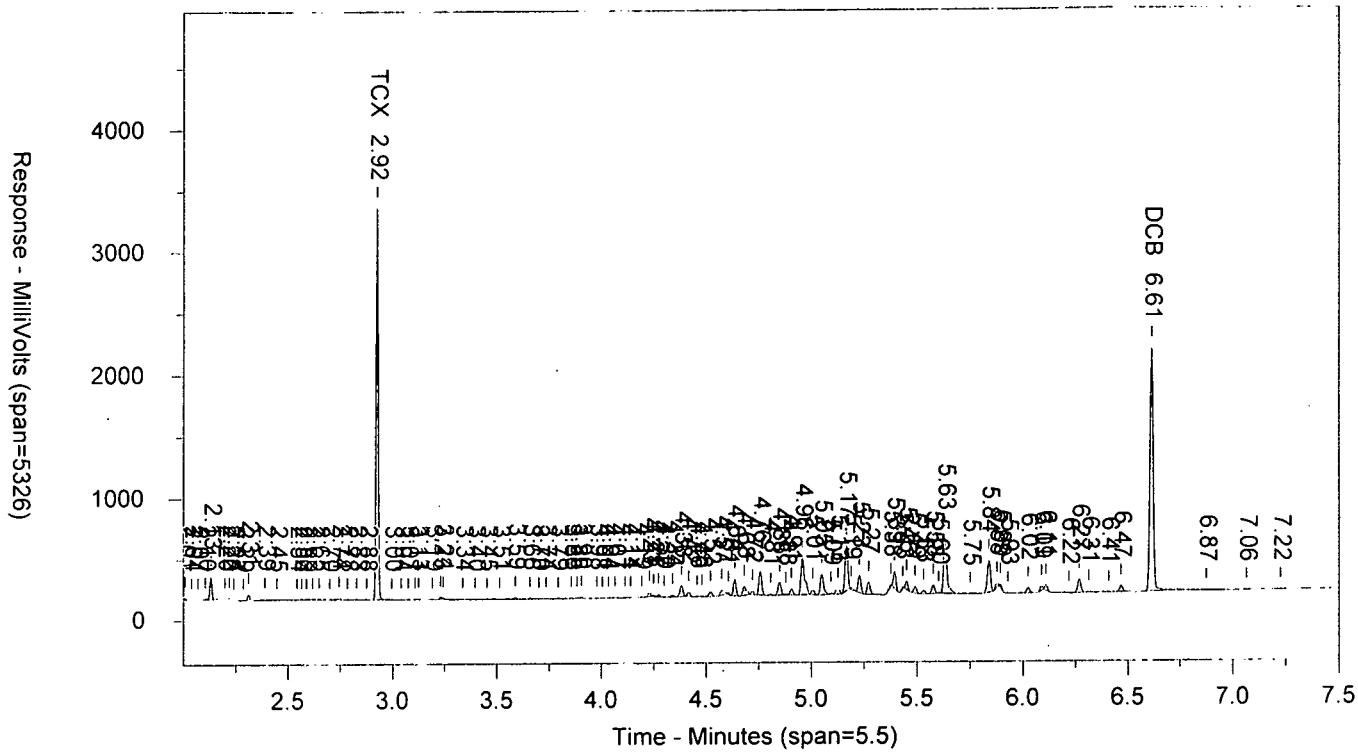

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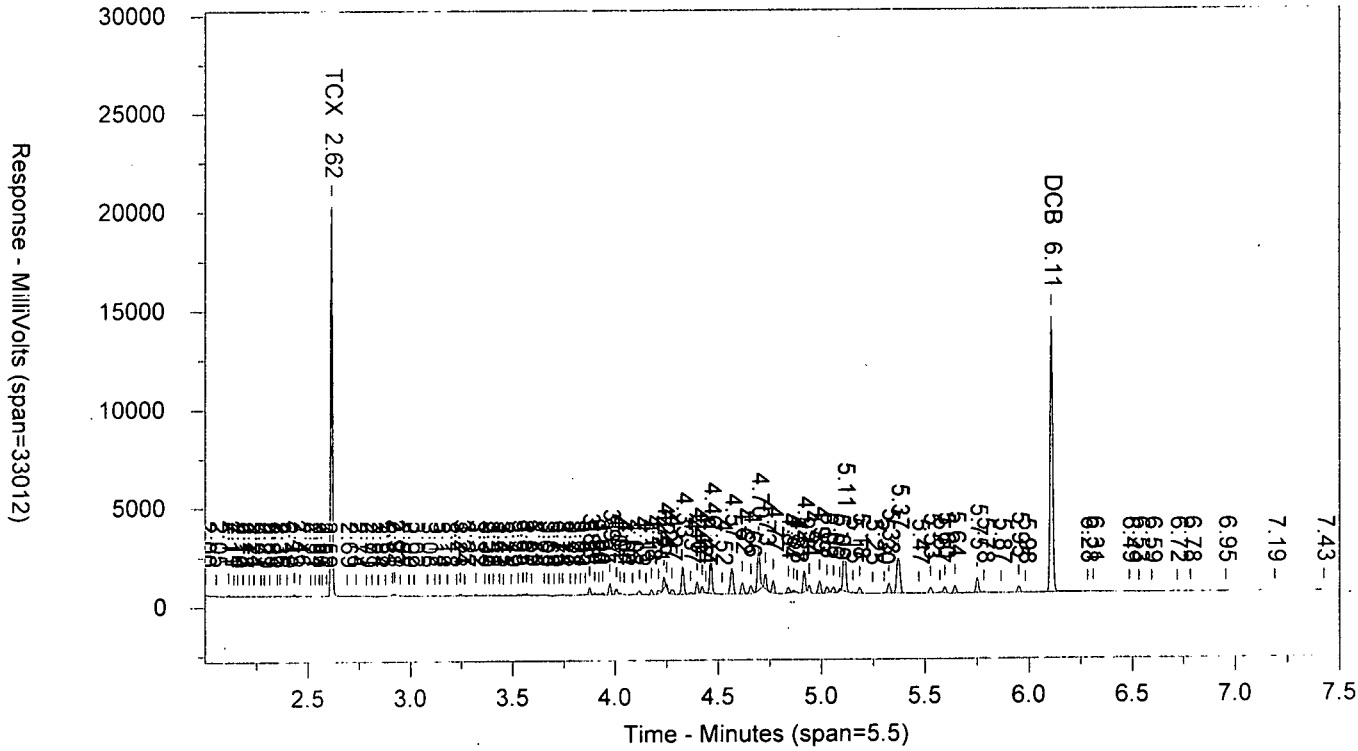

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Data Summary

Sample Name: 8998249 ACF DF10 42A14 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.32 g Total Volume: 100 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 19:06:06
Instrument	17342A
Result file	20PCBS17137004.029.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 92% (61 - 152) Conc: 26.19272
%SSR(DCB) 108% (48 - 164) Conc: 30.73077

Analysis Report (B)

Injected on	May 21, 2017 19:06:06
Instrument	17342B
Result file	20PCBS17137004B.029.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 96% (61 - 152) Conc: 27.24339
%SSR(DCB) 109% (48 - 164) Conc: 30.8415

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	307180	26.19272
Decachlorobiphenyl	6.58	6.61	6.64	218245	30.73077

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	1943627	27.24339
Decachlorobiphenyl	6.08	6.11	6.14	1550613	30.8415

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	27.24339				3.93	
☑ Decachlorobiphenyl	B	30.8415				0.36	

Multiple Component Data

Aroclor-1260 (%RSD 19.41)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	1316882	3044.797734			1
5.20	5.23	5.24	937378.4	3349.958143			3
5.37	5.39	5.41	905432.3	2835.922408			4
5.61	5.63	5.65	3301085	4265.251085			5
5.82	5.84	5.86	1879957	4323.973061			6

Height summation: **8340734.7**
Concentration CF: **3563.980486** L:

Aroclor-1260 (%RSD 10.97)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	10355440	3554.025727			1
4.44	4.46	4.48	14352940	4177.167769			2
4.55	4.57	4.59	10296300	3724.430482			3
4.90	4.92	4.94	7570920	3562.733881			4
5.09	5.11	5.13	22275480	4619.053129			5
5.35	5.37	5.39	13800370	4277.781281			6

Height summation: **78651450**
Concentration CF: **3985.865378** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<494.186	<95.9302			4	
☑ PCB-1221			<494.186	<148.2558			3	
☑ PCB-1232			<494.186	<119.186			4	
☑ PCB-1242			<494.186	<119.186			4	
☑ PCB-1248			<494.186	<95.9302			4	
☑ PCB-1254			<494.186	<127.907			4	
☑ PCB-1260	B	3985.865378	494.186	113.3721		11.18	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998249** ACF DF10 42A14 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.32 g Total Volume: 100 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:06:06
Instrument : CP20--17342A
Result file : 20PCBS17137004.029.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 92% (61-152) Conc.: 26.19272
%SSR(DCB) : 108% (48-164) Conc.: 30.73077

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	82.77	
3.16	3.18	3.20	5033.412	23.770166			1
3.37	3.40	3.41	6575.117	30.408723			2
3.49	3.51	3.53	5892.099	24.204102			3
3.71	3.73	3.75	40998.85	152.012008			4
3.76	3.79	3.80	11315.91	51.295932			5
+ 3.96	3.96	4.00	1514.093	8.559886			6
3.96	3.98	4.00	21405.4	121.014876			6
Height Summation:			**91220.788**				
Amount Avg CF:			**67.117635**	Linear:			
Aroclor-1221					2	31.53	
3.06	3.08	3.10	2836.319	27.961332			1
3.16	3.18	3.20	5033.412	17.767091			3
Height Summation:			**7869.731**				
Amount Avg CF:			**22.864211**	Linear:			
Aroclor-1232					6	90.89	
3.16	3.18	3.20	5033.412	19.807027			1
3.38	3.40	3.42	6575.117	64.300891			2
3.49	3.51	3.53	5892.099	52.514537			3
3.71	3.73	3.75	40998.85	336.846492			4
3.77	3.79	3.81	11315.91	118.588148			5
3.96	3.98	4.00	21405.4	290.192379			6
Height Summation:			**91220.788**				
Amount Avg CF:			**147.041579**	Linear:			
Aroclor-1242					6	82.84	
3.16	3.18	3.20	5033.412	27.746827			1
3.38	3.40	3.42	6575.117	36.705222			2
3.49	3.51	3.53	5892.099	30.038793			3
3.71	3.73	3.75	40998.85	185.802596			4
3.77	3.79	3.81	11315.91	65.499227			5
3.96	3.98	4.00	21405.4	151.560544			6
Height Summation:			**91220.788**				
Amount Avg CF:			**82.892201**	Linear:			
Aroclor-1248					6	197.47	
3.76	3.79	3.80	11315.91	94.479284			1
3.83	3.86	3.87	37430.62	171.845504			2
+ 3.96	3.96	4.00	1514.093	5.902467			3
3.96	3.98	4.00	21405.4	83.445781			3
4.05	4.06	4.09	50648.27	237.515155			4
4.23	4.23	4.27	178398.5	706.222256			5
+ 4.23	4.25	4.27	158703.7	628.25688			5
4.61	4.64	4.65	1219396	6585.043717			6
Height Summation:			**1518594.7**				
Amount Avg CF:			**1313.091949**	Linear:			
Aroclor-1254					6	90.07	
4.21	4.23	4.25	178398.5	598.983151			1
4.55	4.57	4.59	165531	553.030063			2
+ 4.55	4.59	4.59	36907.16	123.304813			2
4.61	4.64	4.65	1219396	2017.10803			3
4.73	4.76	4.77	1316882	7257.431223			4
4.83	4.85	4.87	1172068	2933.867413			5
5.14	5.17	5.18	2987738	7280.528237			6
Height Summation:			**7040013.5**				
Amount Avg CF:			**3440.15802**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:06:06
Instrument : CP20--17342B
Result file : 20PCBS17137004B.029.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 96% (61-152) Conc.: 27.24339
%SSR(DCB) : 109% (48-164) Conc.: 30.8415

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	119.99	
2.88	2.91	2.92	914300.2	783.497851			1
3.21	3.23	3.25	36680.54	25.293864			2
+ 3.21	3.24	3.25	21935.8	15.126308			2
3.40	3.42	3.44	195392.2	134.089231			3
3.47	3.49	3.51	106590.6	61.854246			4
3.63	3.65	3.67	207797.3	143.521079			5
3.72	3.73	3.76	316372.8	255.003407			6
+ 3.72	3.74	3.76	168998.4	136.216412			6
Height Summation:			**1777133.64**				
Amount Avg CF:			**233.876613**	Linear:			
Aroclor-1221					3	108.89	
2.77	2.79	2.81	120171.7	195.1312			1
2.83	2.85	2.87	6622.361	17.443917			2
2.88	2.91	2.92	914300.2	580.558013			3
Height Summation:			**1041094.261**				
Amount Avg CF:			**264.37771**	Linear:			
Aroclor-1232					6	68.17	
2.88	2.91	2.92	914300.2	641.311983			1
3.21	3.23	3.25	36680.54	53.23474			2
+ 3.21	3.24	3.25	21935.8	31.83559			2
3.40	3.42	3.44	195392.2	316.963464			3
3.47	3.49	3.51	106590.6	140.740458			4
3.66	3.68	3.70	66246.53	320.292864			5
3.73	3.73	3.77	316372.8	583.432198			6
+ 3.73	3.74	3.77	168998.4	311.65482			6
Height Summation:			**1635582.87**				
Amount Avg CF:			**342.662618**	Linear:			
Aroclor-1242					6	114.76	
2.88	2.91	2.92	914300.2	911.221627			1
3.21	3.23	3.25	36680.54	30.610308			2
+ 3.21	3.24	3.25	21935.8	18.305663			2
3.40	3.42	3.44	195392.2	165.812523			3
3.47	3.49	3.51	106590.6	79.143737			4
3.64	3.65	3.68	207797.3	187.39353			5
3.73	3.73	3.77	316372.8	318.521522			6
+ 3.73	3.74	3.77	168998.4	170.146193			6
Height Summation:			**1777133.64**				
Amount Avg CF:			**282.117208**	Linear:			
Aroclor-1248					6	182.98	
3.40	3.42	3.44	195392.2	339.982411			1
3.51	3.53	3.55	285562.5	176.172431			2
3.63	3.65	3.67	207797.3	102.609328			3
3.72	3.73	3.76	316372.8	216.356477			4
+ 3.72	3.74	3.76	168998.4	115.572194			4
3.86	3.88	3.90	2514078	907.713576			5
4.22	4.24	4.26	7787290	6359.131166			6
Height Summation:			**11306492.8**				
Amount Avg CF:			**1350.327565**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998249** ACF DF10 42A14 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.32 g Total Volume: 100 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:06:06
Instrument : CP20--17342A
Result file : 20PCBS17137004.029.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	36.51	
4.73	4.76	4.77	1316882	3044.797734			1
5.03	5.05	5.07	1655324	6926.783354			2
5.20	5.23	5.24	937378.4	3349.958143			3
+ 5.37	5.38	5.41	129026.2	404.125512			4
5.37	5.39	5.41	905432.3	2835.922408			4
5.61	5.63	5.65	3301085	4265.251085			5
5.82	5.84	5.86	1879957	4323.973061			6
Height Summation:			**9996058.7**				
Amount Avg CF:			**4124.447631**	Linear:			
Aroclor-1262					6	48.25	
5.21	5.23	5.24	937378.4	1819.466363			1
+ 5.37	5.38	5.41	129026.2	310.007605			2
E 5.37	5.39	5.41	905432.3	2175.4566			2
E 5.61	5.63	5.65	3301085	3281.545579			3
E 5.81	5.84	5.85	1879957	3381.597279			4
5.87	5.88	5.91	130220.2	472.835656			5
+ 5.87	5.89	5.91	115549.5	419.565656			5
E 6.25	6.27	6.29	717492.4	2141.442144			6
Height Summation:			**7871565.3**				
Amount Avg CF:			**2212.05727**	Linear:			
Aroclor-1268					6	128.79	
5.81	5.84	5.85	1879957	1520.724489			1
5.87	5.88	5.91	130220.2	120.728097			2
+ 5.87	5.89	5.91	115549.5	107.126784			2
6.00	6.02	6.04	33570.23	33.377445			3
6.07	6.09	6.11	52981.27	229.769194			4
6.25	6.27	6.29	717492.4	1727.08729			5
6.45	6.47	6.49	144883.9	44.56482			6
Height Summation:			**2959105**				
Amount Avg CF:			**612.708556**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:06:06
Instrument : CP20--17342B
Result file : 20PCBS17137004B.029.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	77.35	
4.16	4.18	4.19	2087407	967.525653			1
4.22	4.24	4.26	7787290	2034.239138			2
4.31	4.33	4.35	10355440	5815.092172			3
4.38	4.40	4.42	7029856	2731.753104			4
E 4.44	4.46	4.48	14352940	9685.288559			5
4.60	4.62	4.64	6190308	3428.789803			6
Height Summation:			**47803241**				
Amount Avg CF:			**4110.448072**	Linear:			
Aroclor-1260					6	10.97	
4.31	4.33	4.35	10355440	3554.025727			1
4.44	4.46	4.48	14352940	4177.167769			2
4.55	4.57	4.59	10296300	3724.430482			3
4.90	4.92	4.94	7570920	3562.733881			4
5.09	5.11	5.13	22275480	4619.053129			5
5.35	5.37	5.39	13800370	4277.781281			6
Height Summation:			**78651450**				
Amount Avg CF:			**3985.865378**	Linear:			
Aroclor-1262					6	40.20	
4.71	4.73	4.75	4858778	1452.563843			1
E 4.90	4.92	4.94	7570920	2275.327982			2
E 5.09	5.11	5.13	22275480	3519.579444			3
5.31	5.33	5.35	3220080	1227.836654			4
E 5.35	5.37	5.39	13800370	3269.234775			5
E 5.73	5.75	5.77	4870314	2131.874265			6
Height Summation:			**56595942**				
Amount Avg CF:			**2312.736161**	Linear:			
Aroclor-1268					6	124.93	
5.31	5.33	5.35	3220080	377.005952			1
5.35	5.37	5.39	13800370	1595.861213			2
5.51	5.53	5.55	230332.8	31.003421			3
5.57	5.59	5.61	111077.3	61.839416			4
5.73	5.75	5.77	4870314	1673.168758			5
5.93	5.95	5.97	1035125	46.790334			6
Height Summation:			**23267299.1**				
Amount Avg CF:			**630.944849**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			494.1861	95.9302		** 110.81	4	40	
Aroclor-1221			494.1861	148.2558		** 168.16	3	5	
Aroclor-1232			494.1861	119.1861		** 79.89	4	10	
Aroclor-1242			494.1861	119.1861		** 109.16	4	30	
Aroclor-1248			494.1861	95.9302		2.80	4	40	
Aroclor-1254			494.1861	127.907		17.75	4	40	
Aroclor-1260			494.1861	113.3721		3.42	4	40	
Aroclor-1262			494.1861	95.9302	E	4.45	4	40	
Aroclor-1268			494.1861	95.9302		2.93	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998249ACF DF10 AC42A14 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:06:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.029.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		9579	11099
2.104		1591	1969
2.131		19925	13483
2.199		126100	91487
2.311		10242	6877
2.384		5446	6111
2.571		1333	838
2.627		9656	5421
2.648		57612	36050
2.697		762	1141
2.73		908	690
2.798		1996	1385
2.925	TCX	307180	208408
3.038		17599	11369
3.08		2836	2265
3.182		5033	5936
3.231		12667	6757
3.244		134473	77669
3.318		2447	1762
3.398		6575	4121
3.424		3694	3589
3.468		6685	6153
3.514		5892	4279
3.557		2442	2060
3.588		24823	17048
3.623		1678	929
3.693		10965	13591
3.731		40999	31076
3.787		11316	10904
3.83		1032	603
3.857		37431	28605
3.891		56169	49845
3.93		5523	5810
3.956		1514	906
3.979		21405	14789
4.003		4766	3438
4.034		14922	9570
4.061		50648	60805
4.11		6725	5491
4.14		4436	2641
4.156		5576	3150
4.191		15016	10048
4.229		178399	127310
4.249		158704	100737
4.273		156355	116922
4.34		98753	85113
4.382		546609	511316
4.417		297709	241323
4.456		22485	16436
4.48		31743	23673
4.521		282397	281075
4.575		165531	117618
4.589		36907	13568
4.605		136765	89056

RT A	Compound A	Height A	Area A
4.635		1219396	1057244
4.681		462093	523853
4.719		219955	169490
4.757		1316882	1295047
4.808		114799	111079
4.85		1172068	1072273
4.878		20593	11579
4.905		302651	283930
4.958		2059653	2581570
5.007		265103	227565
5.05		1655324	1565334
5.092		104808	73542
5.13		207841	262188
5.166		2987738	2755807
5.188		85836	44002
5.228		937378	825942
5.272		655022	663595
5.324		16165	13852
5.377		129026	131072
5.393		905432	688482
5.451		553520	514833
5.491		338968	309364
5.532		56755	52755
5.577		530748	480586
5.603		42388	24182
5.632		3301085	3173195
5.668		26579	15771
5.72		7800	7559
5.755		3456	1976
5.774		2015	1203
5.799		2661	1522
5.839		1879957	1879998
5.878		130220	155123
5.891		115550	95720
6.024		33570	56133
6.086		52981	39234
6.111		280132	245878
6.234		1139	655
6.268		717492	691176
6.314		44714	44994
6.468		144884	148185
6.613	DCB	218245	255843
6.69		11361	11052
6.913		1704	4339
7.728		648	1257
7.779		1171	1472
8.031		17154	28201
8.678		3555	5124

LANCASTER LABORATORIES

Sample Number: 8998249ACF DF10 AC42A14 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:06:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.029.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		2490	2830
2.032		5273	8665
2.114		26247	29490
2.157		36612	24725
2.203		2912	1150
2.241		7545	12178
2.311		20109	8795
2.321		18876	7803
2.365		360743	246911
2.433		4227	2777
2.461		3831	4026
2.494		13377	9041
2.527		4198	5633
2.567		5369	4221
2.593		3200	2455
2.616	TCX	1943627	1125648
2.665		4311	4233
2.704		8612	12037
2.764		1928	2777
2.785		120172	69098
2.813		6341	3802
2.847		6622	7667
2.878		9463	5093
2.912		914300	758654
2.949		2059	811
3.009		5325	7664
3.034		27640	15981
3.107		21256	10458
3.148		3329	2139
3.179		42231	25508
3.203		8573	3820
3.229		36681	21413
3.245		21936	9560
3.265		168640	106659
3.308		15722	9751
3.325		17430	9648
3.354		5088	2525
3.375		15906	7763
3.384		43947	20342
3.421		195392	218815
3.494		106591	74754
3.527		285563	170352
3.552		470785	306985
3.586		83623	55489
3.654		207797	142807
3.677		66247	35641
3.698		139981	83129
3.727		316373	170162
3.743		168998	83897
3.779		108944	102491
3.832		222982	197090
3.854		356000	221660
3.876		2514078	1625760
3.901		946645	571187

RT B	Compound B	Height B	Area B
3.921		261924	134068
3.939		605672	375456
3.975		3542247	2365349
4.006		2162253	1483337
4.024		243418	97297
4.085		213550	168528
4.119		1439482	1400460
4.148		164387	113953
4.176		2087407	1537839
4.21		1555652	1301449
4.237		7787291	7247425
4.276		1543813	1522873
4.328		10355440	8068968
4.366		921253	731073
4.397		7029857	4794487
4.422		2452524	1677477
4.465		14352940	11089250
4.518		27267	17622
4.567		10296310	9552773
4.617		6190308	4996671
4.659		3228623	2759137
4.696		18621500	15450800
4.727		4858778	3305825
4.766		4438138	3426517
4.825		40683	31922
4.838		23027	9465
4.866		930996	603625
4.882		396278	224936
4.917		7570920	5644024
4.941		3047671	2089136
4.991		4378328	3727664
5.027		2263914	1813233
5.057		1534710	1244937
5.089		1305429	807481
5.111		22275480	17617670
5.152		413637	288964
5.184		608825	519451
5.228		16319	10695
5.249		48932	32125
5.283		22602	14178
5.303		149514	90376
5.326		3220080	2674368
5.371		13800370	14579930
5.47		9964	10068
5.527		230333	198886
5.571		455304	364601
5.595		111077	71332
5.616		17005	8083
5.644		2157714	1832605
5.689		14866	12712
5.723		6942	3712
5.751		4870315	4102104
5.782		265720	200994
5.858		5929	5455
5.95		1035125	878753
5.995		6717	5913
6.108	DCB	1550613	1365408
6.142		5474	4612
6.283		52104	40952
6.311		83975	67933
6.446		2086	1986
6.583		12548	18153
6.619		2054	1743
6.716		2058	1263
6.789		2920	4218
6.954		3869	5204

RT B	Compound B	Height B	Area B
7.012		5067	7827
7.126		3920	4975
7.25		1878	3236
7.342		1819	5276
7.424		2172	2415
7.466		5989	6820
7.556		95137	129716
7.71		3450	4976
7.836		2668	4958
8.115		3529	6230
8.217		19219	30707
8.435		8522	16303

8998249ACF DF10 AC42A14 T 171380028A 10225 SW-846 8082

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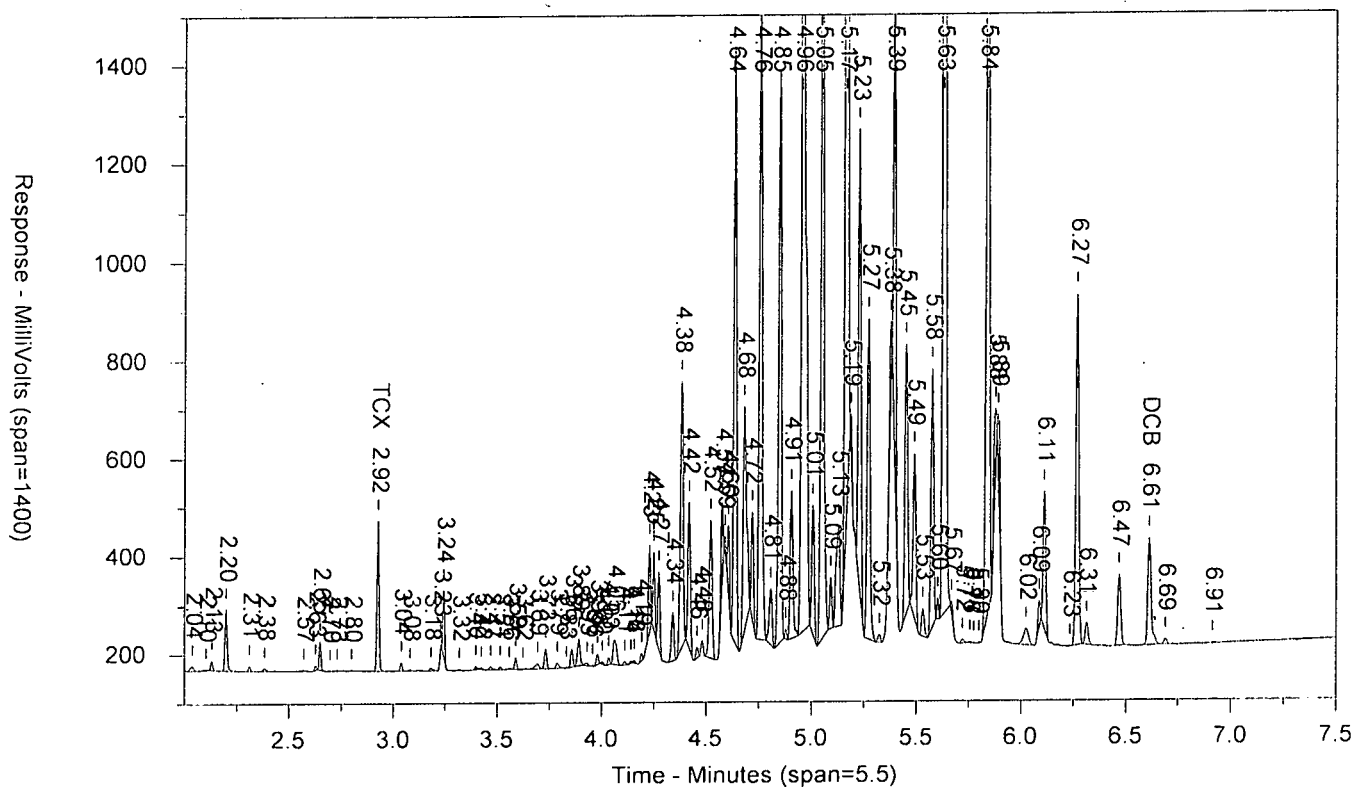

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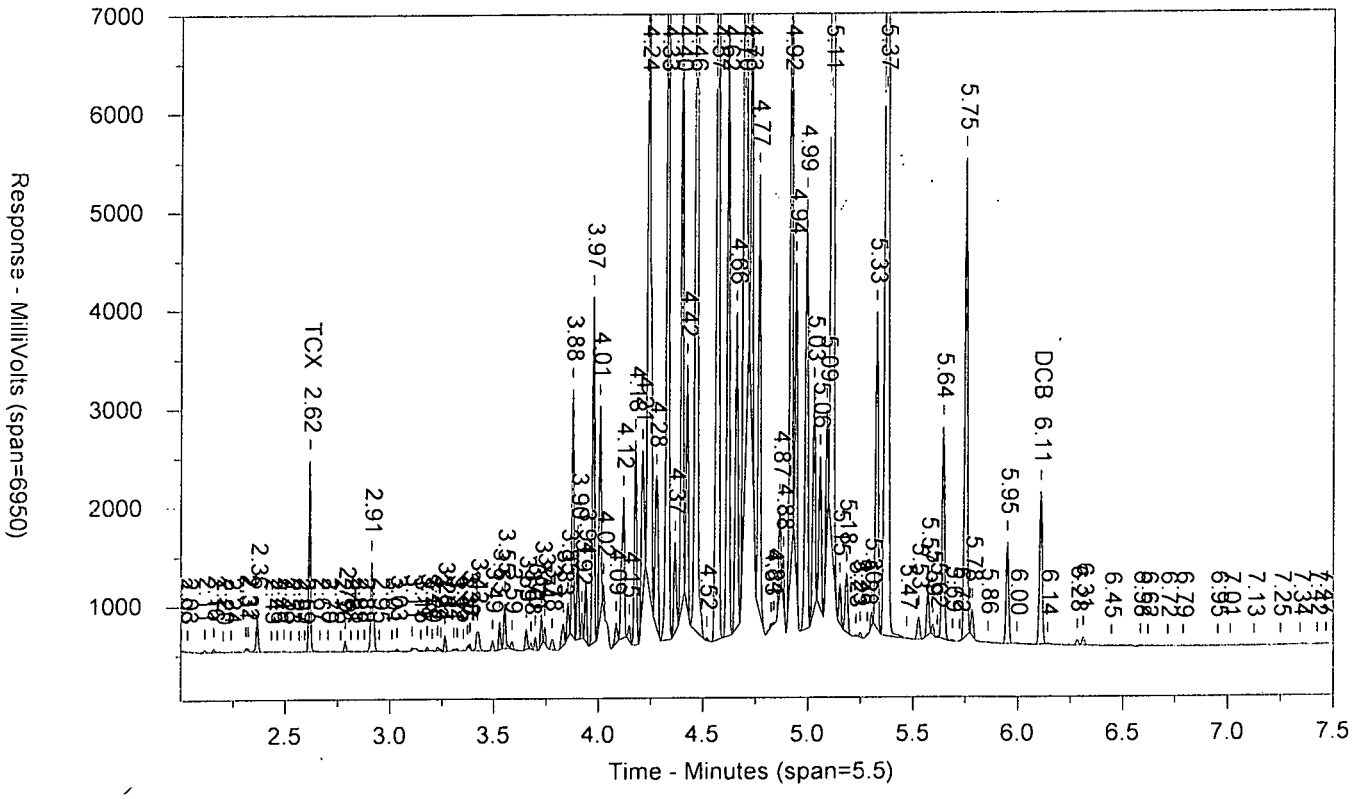

LANCASTER LABORATORIES

Sample Number: 8998249ACF DF10 AC42A14 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:06:06 PM Sample Weight: 10.32
Instrument ID: CP20-17342 Dilution Factor: 100
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	307180	26.193	TCX	2.616	1943627	27.243	TCX
6.613	218245	30.731	DCB	6.108	1550613	30.842	DCB

Files:
Area File: 20pcbs17137004.029.RAW
Area File: 20pcbs17137004B.029.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 7:14:50 PM
File Reported On: 5/21/2017 at 7:14:59 PM

8998249ACF DF10 AC42A14 T 171380028A 10225 SW-846 8082

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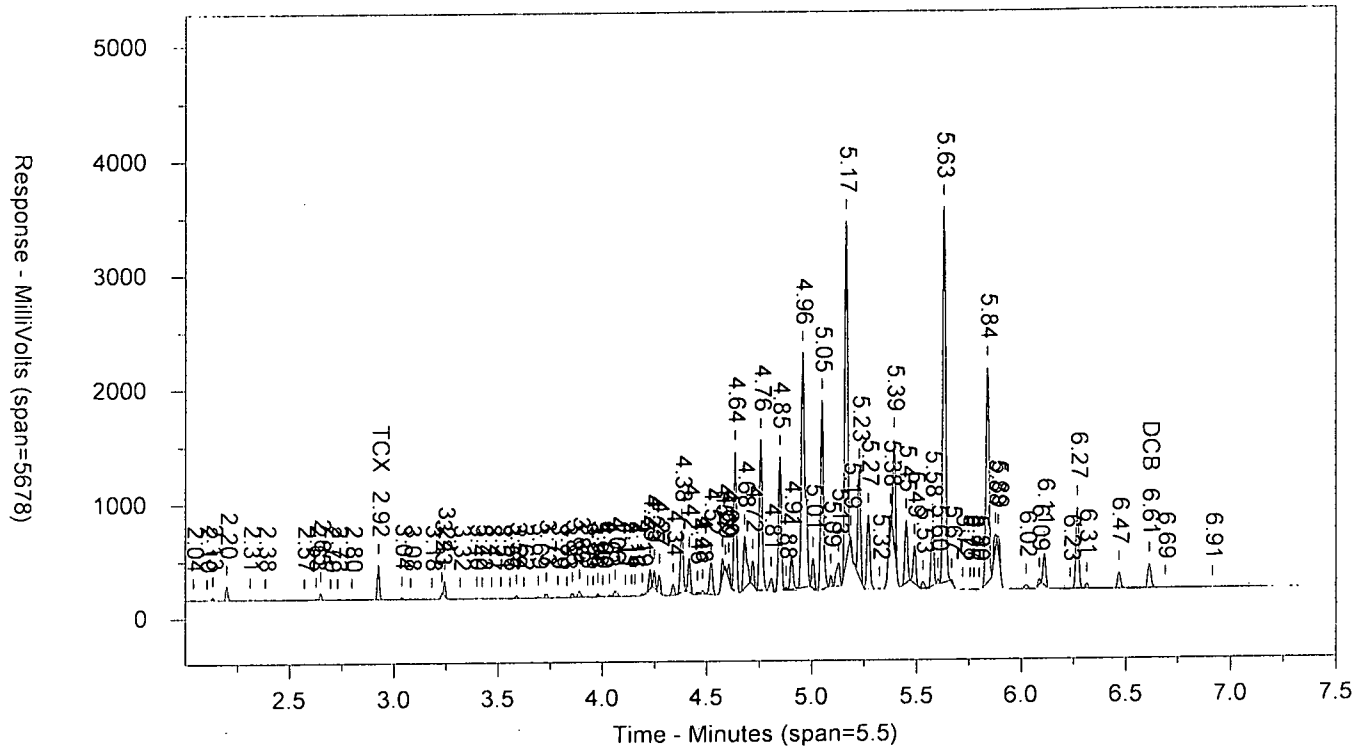

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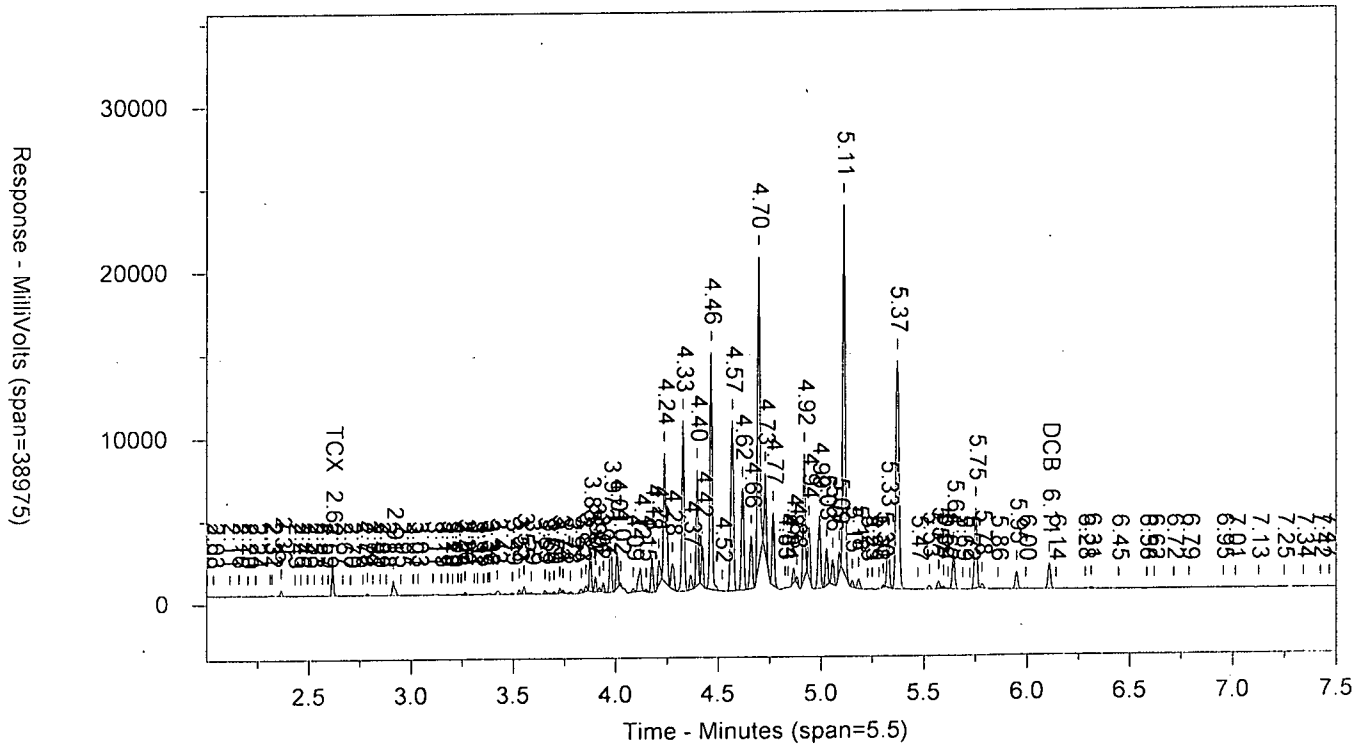


eurofins | Lancaster Laboratories Environmental

Data Summary

Sample Name: 8998250 ACF DF5 42A15 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.39 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 19:17:25
Instrument	17342A
Result file	20PCBS17137004.030.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 88% (61 - 152) Conc: 24.79578
%SSR(DCB) 101% (48 - 164) Conc: 28.58381

Analysis Report (B)

Injected on	May 21, 2017 19:17:25
Instrument	17342B
Result file	20PCBS17137004B.030.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 90% (61 - 152) Conc: 25.2478
%SSR(DCB) 94% (48 - 164) Conc: 26.5896

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	585540	24.79578
Decachlorobiphenyl	6.58	6.61	6.64	408750	28.58381

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	3626947	25.2478
Decachlorobiphenyl	6.08	6.11	6.14	2691816	26.5896

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	25.2478				1.81	
☑ Decachlorobiphenyl	A	28.58381				7.23	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**17.59**	
4.73	4.76	4.77	1712648	1966.590116			1
5.03	5.05	5.07	1553468	3228.38305			2
5.20	5.23	5.24	1204277	2137.395964			3
5.37	5.39	5.41	1600443	2489.503415			4
5.61	5.63	5.65	4042153	2593.789913			5
5.82	5.84	5.86	2172848	2481.981639			6

Height summation: **12285837**
Concentration CF: **2482.940683** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.74**	
4.31	4.33	4.35	12661520	2158.102213			1
4.44	4.46	4.48	16369290	2365.947186			2
4.55	4.57	4.59	11693200	2100.61381			3
4.90	4.92	4.94	9213117	2153.155856			4
5.09	5.11	5.13	25362730	2611.896954			5
5.35	5.37	5.39	15862560	2441.941622			6

Height summation: **91162417**
Concentration CF: **2305.276274** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<245.4283	<47.642			4	
☑ PCB-1221			<245.4283	<73.6285			3	
☑ PCB-1232			<245.4283	<59.1915			4	
☑ PCB-1242			<245.4283	<59.1915			4	
☑ PCB-1248			<245.4283	<47.642			4	
☑ PCB-1254			<245.4283	<63.5226			4	
☑ PCB-1260	A	2482.940683	245.4283	56.3041		7.42	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by:
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998250** ACF DF5 42A15 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.39 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342A
Result file : 20PCBS17137004.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 88% (61-152) Conc.: 24.79578
%SSR(DCB) : 101% (48-164) Conc.: 28.58381

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**83.65**	
3.16	3.18	3.20	5243.683	12.298165			1
3.37	3.40	3.41	6404.924	14.711022			2
3.49	3.51	3.53	10238.45	20.887541			3
3.71	3.73	3.75	50788.14	93.519609			4
3.76	3.79	3.80	12855.4	28.940977			5
+ 3.96	3.96	4.00	1174.869	3.298671			6
3.96	3.98	4.00	23304.75	65.432576			6
Height Summation:			**108835.347**				
Amount Avg CF:			**39.298315**	Linear:			
Aroclor-1221					**3**	**17.94**	
3.06	3.08	3.10	2193.834	10.7409			1
3.11	3.12	3.15	1318.145	7.464985			2
3.16	3.18	3.20	5243.683	9.192305			3
Height Summation:			**8755.662**				
Amount Avg CF:			**9.13273**	Linear:			
Aroclor-1232					**6**	**90.51**	
3.16	3.18	3.20	5243.683	10.247723			1
3.38	3.40	3.42	6404.924	31.107251			2
+ 3.38	3.42	3.42	3792.778	18.420656			2
3.49	3.51	3.53	10238.45	45.318745			3
3.71	3.73	3.75	50788.14	207.231999			4
3.77	3.79	3.81	12855.4	66.906999			5
3.96	3.98	4.00	23304.75	156.906617			6
Height Summation:			**108835.347**				
Amount Avg CF:			**86.286556**	Linear:			
Aroclor-1242					**6**	**83.45**	
3.16	3.18	3.20	5243.683	14.355603			1
3.38	3.40	3.42	6404.924	17.757119			2
+ 3.38	3.42	3.42	3792.778	10.515162			2
3.49	3.51	3.53	10238.45	25.922734			3
3.71	3.73	3.75	50788.14	114.307984			4
3.77	3.79	3.81	12855.4	36.954424			5
3.96	3.98	4.00	23304.75	81.948576			6
Height Summation:			**108835.347**				
Amount Avg CF:			**48.541073**	Linear:			
Aroclor-1248					**6**	**183.48**	
3.76	3.79	3.80	12855.4	53.304866			1
3.83	3.86	3.87	54251.79	123.69706			2
3.96	3.98	4.00	23304.75	45.119018			3
4.05	4.06	4.09	50649.46	117.96025			4
4.23	4.23	4.27	271491.9	533.75411			5
+ 4.23	4.25	4.27	70774.09	139.142131			5
4.61	4.63	4.65	1182935	3172.553337			6
Height Summation:			**1595488.3**				
Amount Avg CF:			**674.398107**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342B
Result file : 20PCBS17137004B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 90% (61-152) Conc.: 25.2478
%SSR(DCB) : 94% (48-164) Conc.: 26.5896

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**116.50**	
+ 2.88	2.88	2.92	6102.372	2.597059			1
2.88	2.91	2.92	901747.5	383.767414			1
3.21	3.23	3.25	62052.92	21.250827			2
+ 3.21	3.25	3.25	20015.86	6.854691			2
+ 3.40	3.41	3.44	101177.9	34.483115			3
3.40	3.43	3.44	218190.5	74.36296			3
3.47	3.49	3.51	122543.7	35.316345			4
3.63	3.65	3.67	212117	72.758782			5
3.72	3.73	3.76	266939.4	106.854712			6
+ 3.72	3.74	3.76	237660.1	95.134332			6
Height Summation:			**1783591.02**				
Amount Avg CF:			**115.718507**	Linear:			
Aroclor-1221					**3**	**112.78**	
2.77	2.79	2.81	100339.6	80.915371			1
2.83	2.85	2.87	8950.811	11.709213			2
+ 2.88	2.88	2.92	6102.372	1.924375			3
2.88	2.91	2.92	901747.5	284.364848			3
Height Summation:			**1011037.911**				
Amount Avg CF:			**125.663144**	Linear:			
Aroclor-1232					**6**	**71.13**	
+ 2.88	2.88	2.92	6102.372	2.125756			1
2.88	2.91	2.92	901747.5	314.122931			1
3.21	3.23	3.25	62052.92	44.725561			2
+ 3.21	3.25	3.25	20015.86	14.426727			2
+ 3.40	3.41	3.44	101177.9	81.512046			3
3.40	3.43	3.44	218190.5	175.781017			3
3.47	3.49	3.51	122543.7	80.357274			4
+ 3.66	3.68	3.70	75610.2	181.55101			5
3.66	3.70	3.70	195834.7	470.227397			5
3.73	3.73	3.77	266939.4	244.477046			6
+ 3.73	3.74	3.77	237660.1	217.661533			6
Height Summation:			**1767308.72**				
Amount Avg CF:			**221.615204**	Linear:			
Aroclor-1242					**6**	**111.09**	
+ 2.88	2.88	2.92	6102.372	3.020425			1
2.88	2.91	2.92	901747.5	446.328177			1
3.21	3.23	3.25	62052.92	25.717477			2
+ 3.21	3.25	3.25	20015.86	8.295458			2
+ 3.40	3.41	3.44	101177.9	42.641249			3
3.40	3.43	3.44	218190.5	91.956005			3
3.47	3.49	3.51	122543.7	45.187965			4
3.64	3.65	3.68	212117	95.000157			5
3.73	3.73	3.77	266939.4	133.470866			6
+ 3.73	3.74	3.77	237660.1	118.831088			6
Height Summation:			**1783591.02**				
Amount Avg CF:			**139.610108**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998250** ACF DF5 42A15 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.39 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342A
Result file : 20PCBS17137004.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	102.68	
4.21	4.23	4.25	271491.9	452.704111			1
4.55	4.57	4.59	126108.8	209.242042			2
+ 4.55	4.59	4.59	82616.74	137.079215			2
4.61	4.63	4.65	1182935	971.805668			3
E 4.73	4.76	4.77	1712648	4687.468186			4
4.83	4.85	4.87	817947.4	1016.827316			5
5.14	5.17	5.18	3349383	4053.398903			6
Height Summation:			**7460514.1**				
Amount Avg CF:			**1898.574371**	Linear:			
Aroclor-1260					6	17.59	
4.73	4.76	4.77	1712648	1966.590116			1
5.03	5.05	5.07	1553468	3228.38305			2
5.20	5.23	5.24	1204277	2137.395964			3
5.37	5.39	5.41	1600443	2489.503415			4
5.61	5.63	5.65	4042153	2593.789913			5
5.82	5.84	5.86	2172848	2481.981639			6
Height Summation:			**12285837**				
Amount Avg CF:			**2482.940683**	Linear:			
Aroclor-1262					6	45.13	
E 5.21	5.23	5.24	1204277	1160.886165			1
E 5.37	5.39	5.41	1600443	1909.716083			2
E 5.61	5.63	5.65	4042153	1995.57767			3
E 5.81	5.84	5.85	2172848	1941.053341			4
5.87	5.88	5.91	195525.7	352.589897			5
+ 5.87	5.89	5.91	159504	287.63226			5
E 6.25	6.27	6.29	827825.5	1227.04925			6
Height Summation:			**10043072.2**				
Amount Avg CF:			**1431.145401**	Linear:			
Aroclor-1268					6	125.89	
5.81	5.84	5.85	2172848	872.903278			1
5.87	5.88	5.91	195525.7	90.02601			2
+ 5.87	5.89	5.91	159504	73.440518			2
6.00	6.02	6.04	38234.55	18.879431			3
6.07	6.09	6.11	65180.13	140.384388			4
E 6.25	6.27	6.29	827825.5	989.623357			5
6.45	6.47	6.49	180070.3	27.507319			6
Height Summation:			**3479684.18**				
Amount Avg CF:			**356.553964**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342B
Result file : 20PCBS17137004B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	151.97	
+ 3.40	3.41	3.44	101177.9	87.431724			1
3.40	3.43	3.44	218190.5	188.546822			1
3.51	3.53	3.55	386227.9	118.335369			2
3.63	3.65	3.67	212117	52.01835			3
3.72	3.73	3.76	266939.4	90.660393			4
+ 3.72	3.74	3.76	237660.1	80.71629			4
3.86	3.88	3.90	2522865	452.374638			5
+ 4.22	4.22	4.26	818799.6	332.065082			6
4.22	4.24	4.26	4570930	1853.745712			6
+ 4.22	4.25	4.26	1747902	708.863587			6
Height Summation:			**8177269.8**				
Amount Avg CF:			**459.280214**	Linear:			
Aroclor-1254					6	98.94	
4.16	4.18	4.19	1913982	440.582615			1
+ 4.22	4.22	4.26	818799.6	106.22517			2
4.22	4.24	4.26	4570930	592.999575			2
+ 4.22	4.25	4.26	1747902	226.760231			2
4.31	4.33	4.35	12661520	3531.083973			3
4.38	4.40	4.42	4684684	904.085433			4
E 4.44	4.46	4.48	16369290	5485.745959			5
4.60	4.62	4.64	4854120	1335.282837			6
Height Summation:			**45054526**				
Amount Avg CF:			**2048.296732**	Linear:			
Aroclor-1260					6	8.74	
4.31	4.33	4.35	12661520	2158.102213			1
4.44	4.46	4.48	16369290	2365.947186			2
4.55	4.57	4.59	11693200	2100.61381			3
4.90	4.92	4.94	9213117	2153.155856			4
5.09	5.11	5.13	25362730	2611.896954			5
5.35	5.37	5.39	15862560	2441.941622			6
Height Summation:			**91162417**				
Amount Avg CF:			**2305.276273**	Linear:			
Aroclor-1262					6	35.36	
E 4.71	4.73	4.75	6710174	996.267835			1
E 4.90	4.92	4.94	9213117	1375.105728			2
E 5.09	5.11	5.13	25362730	1990.186857			3
5.31	5.33	5.35	3989960	755.573345			4
E 5.35	5.37	5.39	15862560	1866.21988			5
E 5.73	5.75	5.77	5627410	1223.340453			6
Height Summation:			**66765951**				
Amount Avg CF:			**1367.78235**	Linear:			
Aroclor-1268					6	122.17	
5.31	5.33	5.35	3989960	231.998			1
5.35	5.37	5.39	15862560	910.986248			2
5.51	5.53	5.55	325536.6	21.761449			3
5.57	5.60	5.61	168975.7	46.719531			4
5.73	5.75	5.77	5627410	960.119956			5
5.93	5.95	5.97	1240183	27.8409			6
Height Summation:			**27214625.3**				
Amount Avg CF:			**366.571014**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			245.4283	47.642		** 98.60	4	40	
Aroclor-1221			245.4283	73.6285		** 172.90	3	5	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998250** ACF DF5 42A15 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.39 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342A
Result file : 20PCBS17137004.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 19:17:25
Instrument : CP20--17342B
Result file : 20PCBS17137004B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1232			245.4283	59.1915		** 87.90	4	10	
Aroclor-1242			245.4283	59.1915		** 96.80	4	30	
Aroclor-1248			245.4283	47.642		37.95	4	40	
Aroclor-1254			245.4283	63.5226	E	7.59	4	40	
Aroclor-1260			245.4283	56.3041		7.42	4	40	
Aroclor-1262			245.4283	47.642	E	4.53	4	40	
Aroclor-1268			245.4283	47.642	E	2.77	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998250ACF DF5 AC42A15 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:17:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.030.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		3780	3824
2.101		8021	9335
2.131		21496	12907
2.198		21423	13859
2.284		1180	709
2.311		26155	19504
2.383		3612	4870
2.425		2340	2527
2.55		1711	2157
2.627		5245	2981
2.649		16657	10292
2.775		22559	19022
2.829		2542	2270
2.925	TCX	585540	393869
3.038		16006	10124
3.079		2194	1942
3.123		1318	745
3.183		5244	6773
3.231		27051	14558
3.244		120547	68653
3.315		1959	1392
3.398		6405	3886
3.416		3793	3840
3.468		6167	7662
3.514		10238	8335
3.559		1654	1294
3.587		21073	15142
3.623		1426	782
3.667		3559	2196
3.698		20635	22610
3.733		50788	43397
3.787		12855	10307
3.827		1986	1998
3.855		54252	38813
3.89		21787	23105
3.904		51479	29949
3.956		1175	640
3.979		23305	15792
4.002		7271	4803
4.033		21049	14207
4.061		50649	66927
4.111		21356	16469
4.138		10581	6647
4.154		3066	1786
4.19		19438	13967
4.227		271492	207715
4.248		70774	41276
4.272		152904	120458
4.339		128153	109298
4.381		594707	584676
4.416		271079	223966
4.456		36206	27812
4.479		32055	22654
4.52		274572	280625

RT A	Compound A	Height A	Area A
4.574		126109	88493
4.588		82617	39451
4.604		84797	49438
4.634		1182935	996492
4.68		651397	741266
4.718		224064	158628
4.757		1712648	1605955
4.807		91653	91864
4.849		817947	814738
4.878		23839	13678
4.904		381666	347305
4.957		2503665	3058737
5.006		339784	304822
5.05		1553468	1534813
5.092		87094	63071
5.129		238536	292399
5.165		3349383	3137680
5.188		100157	37985
5.227		1204277	1064847
5.271		839435	817153
5.323		11822	10529
5.393		1600443	2257007
5.45		716820	644000
5.491		402850	368851
5.531		70662	69019
5.575		541741	499372
5.603		35283	19916
5.631		4042153	3996389
5.722		8078	7842
5.754		3528	2468
5.774		2093	1191
5.8		1751	1197
5.839		2172848	2215294
5.879		195526	228775
5.892		159504	120892
5.989		19751	16691
6.022		38235	51828
6.086		65180	45611
6.11		335673	295903
6.176		2587	2390
6.232		1545	1035
6.266		827826	822193
6.313		54478	53635
6.382		1507	2080
6.467		180070	190838
6.614	DCB	408750	461484
6.69		10489	11311
6.854		812	654
6.888		937	897
7.009		845	392
7.081		787	897
7.297		830	3617
7.409		807	4707
7.78		2237	3369
8.029		10099	16669
8.681		2533	2480

LANCASTER LABORATORIES

Sample Number: 8998250ACF DF5 AC42A15 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:17:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.030.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

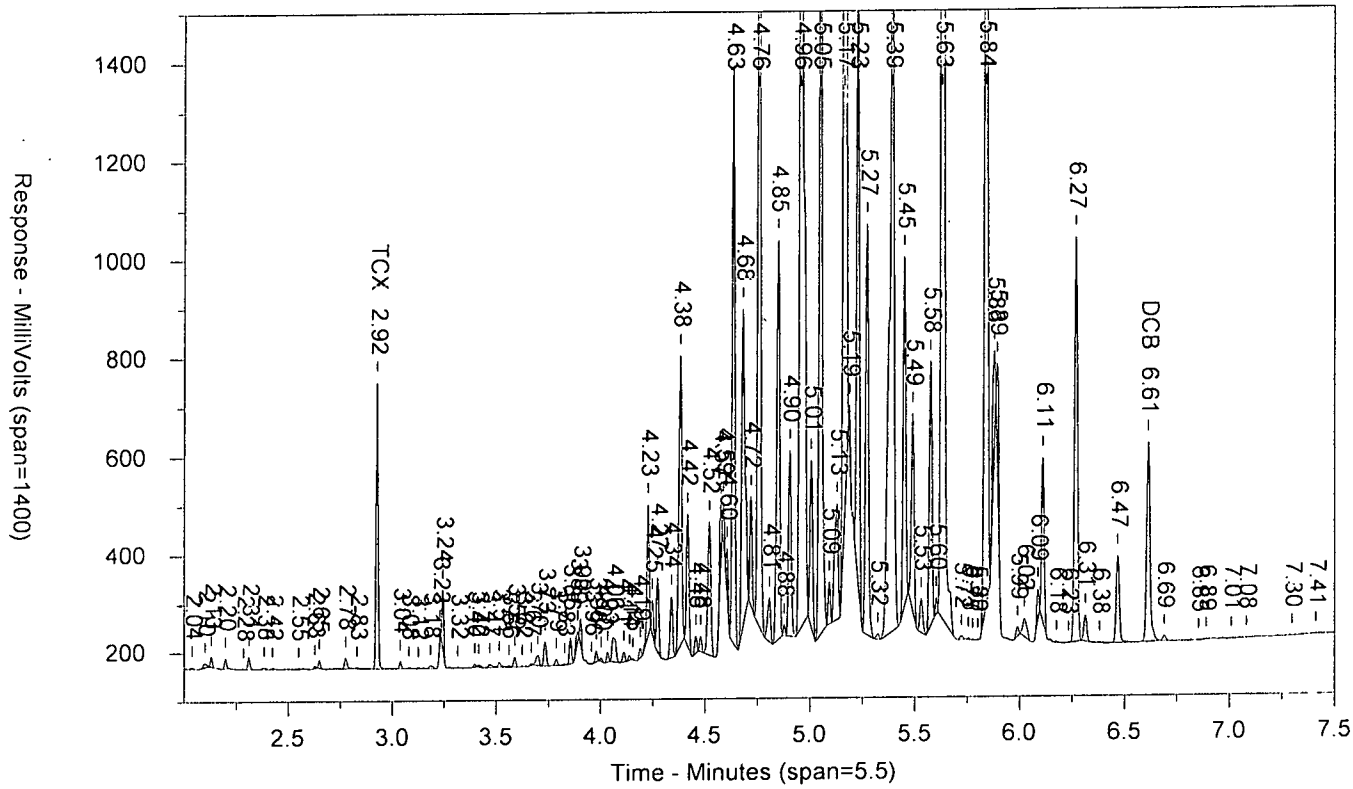
RT B	Compound B	Height B	Area B
2.006		17353	10141
2.114		16506	21994
2.158		22631	33931
2.242		11606	17838
2.283		2378	1725
2.312		5315	2644
2.322		11692	4942
2.365		123755	98617
2.415		2589	2161
2.454		4616	3700
2.494		8580	7182
2.53		7034	5579
2.548		64792	53384
2.593		3732	2130
2.616	TCX	3626947	2133412
2.677		7947	4878
2.702		8226	13372
2.766		2190	868
2.786		100340	57641
2.814		5512	3223
2.848		8951	10842
2.881		6102	5535
2.912		901748	840191
2.951		4431	4394
3.011		7335	9273
3.035		18500	10297
3.066		4647	3112
3.085		4401	2212
3.107		29147	13807
3.16		3730	1973
3.18		42087	25691
3.202		7899	3686
3.228		62053	41848
3.245		20016	8435
3.265		139210	88152
3.325		68684	67228
3.354		5121	2838
3.385		105312	85005
3.405		101178	49175
3.434		218191	204120
3.493		122544	94109
3.527		386228	227225
3.551		588883	311580
3.568		545195	289743
3.586		43162	22135
3.654		212117	142461
3.676		75610	40081
3.697		195835	144377
3.727		266939	141178
3.742		237660	128786
3.78		152922	121899
3.831		220585	215764
3.854		186530	120619
3.876		2522865	1591512

RT B	Compound B	Height B	Area B
3.9		580815	334952
3.92		497871	270687
3.939		717184	431686
3.974		3926627	2697762
4.006		1968703	1247693
4.024		320660	146394
4.044		132964	70646
4.085		214763	169021
4.119		1317963	1298914
4.139		96550	103204
4.176		1913982	1426484
4.217		818800	1024054
4.237		4570930	2525864
4.249		1747902	795024
4.275		1953547	1884653
4.328		12661520	9731672
4.366		723423	635025
4.397		4684684	3272939
4.422		3016940	2087738
4.464		16369290	12635020
4.518		28913	19900
4.567		11693200	11042970
4.617		4854120	4016605
4.658		3724834	3136838
4.695		20790200	16866850
4.728		6710174	4506196
4.766		5340738	4128113
4.824		28830	24781
4.839		49506	28490
4.865		1210605	800191
4.882		338496	196559
4.917		9213117	6883398
4.941		2950385	1949781
4.991		5092783	4478731
5.027		2776848	2130222
5.056		1855328	1474914
5.089		1073208	661055
5.111		25362730	20293320
5.152		488412	343541
5.184		710772	616119
5.228		16119	10089
5.248		46880	30950
5.283		9921	8727
5.303		181317	111243
5.326		3989960	3175722
5.37		15862560	16403320
5.445		182413	161486
5.525		325537	276928
5.572		510012	402592
5.595		168976	107527
5.617		27916	13191
5.644		2546365	2114200
5.686		19221	17780
5.723		9870	5293
5.75		5627410	4675186
5.781		318206	242455
5.858		6355	6093
5.89		3600	3935
5.95		1240183	1050430
5.993		6284	4465
6.065		4179	2636
6.108	DCB	2691817	2422049
6.142		6775	5335
6.282		51540	39572
6.311		98132	81114
6.373		5203	4347

RT B	Compound B	Height B	Area B
6.452		3672	4127
6.487		3233	2197
6.528		10529	13427
6.585		10971	15599
6.641		2985	1662
6.732		4976	6062
6.785		4113	4748
6.952		5641	6590
7.012		12504	13194
7.064		3484	4440
7.124		5387	7951
7.237		2403	3468
7.302		4066	5116
7.433		2010	4321
7.461		4185	3891
7.556		54116	67045
7.781		2399	4021
7.846		3063	6883
8.116		6675	11208
8.215		19450	35370
8.432		9019	17601

8998250ACF DF5 AC42A15 T 171380028A 10225 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137004.030.RAW



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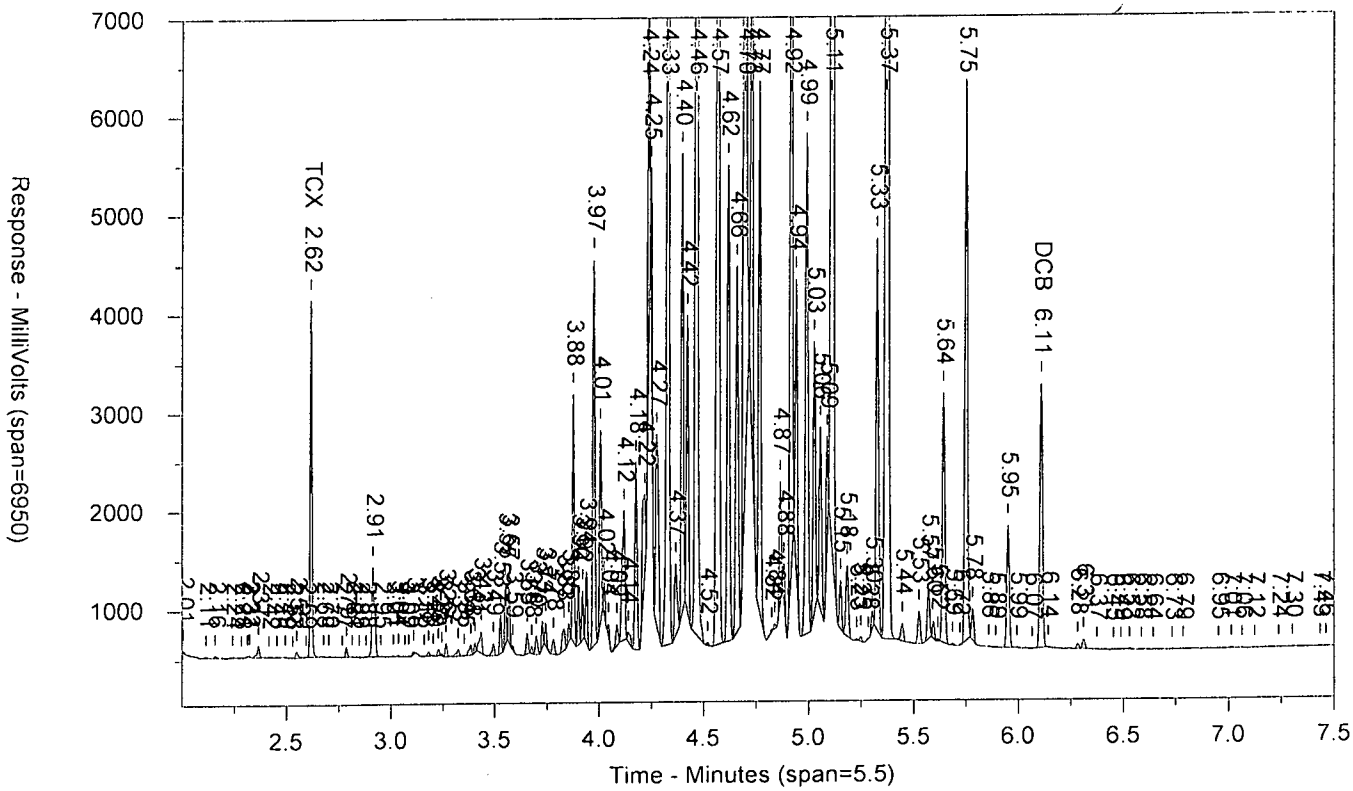

LANCASTER LABORATORIES

Sample Number: 8998250ACF DF5 AC42A15 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:17:25 PM Sample Weight: 10.39
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	585540	24.796	TCX	2.616	3626947	25.248	TCX
6.614	408750	28.584	DCB	6.108	2691817	26.59	DCB

Files:
Area File: 20pcbs17137004.030.RAW
Area File: 20pcbs17137004B.030.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 7:26:07 PM
File Reported On: 5/21/2017 at 7:26:13 PM

8998250ACF DF5 AC42A15 T 171380028A 10225 SW-846 8082

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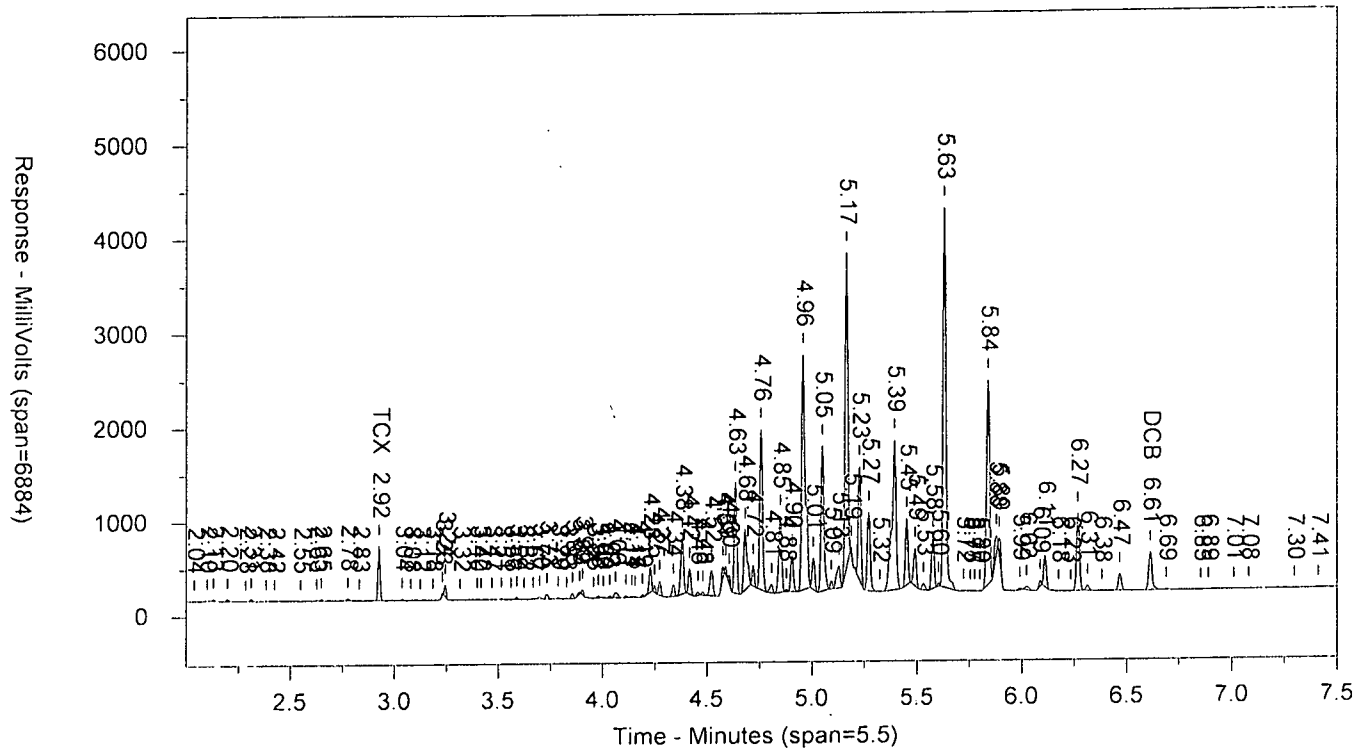

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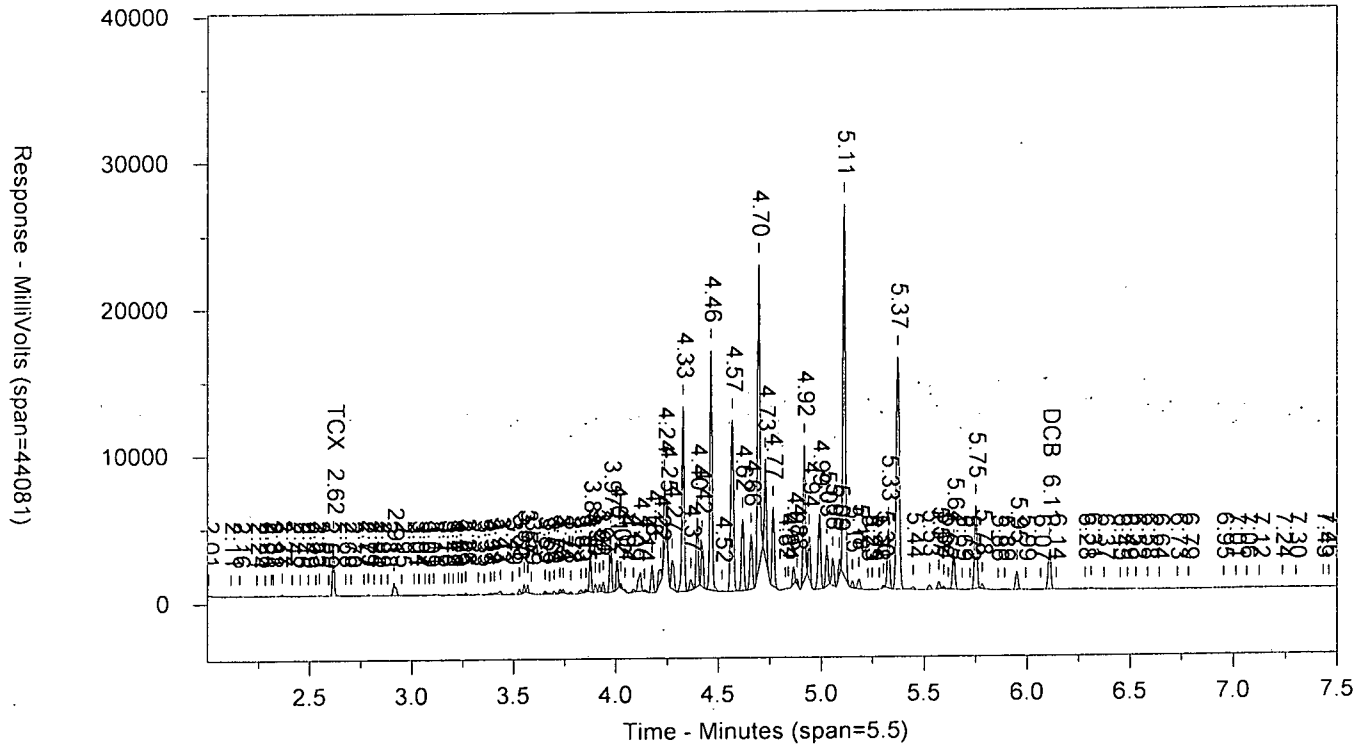

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Data Summary

Sample Name: 8998251 ACF DF5 42A16 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 19:28:57
Instrument	17342A
Result file	20PCBS17137004.031.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 92% (61 - 152) Conc: 25.76777
%SSR(DCB) 101% (48 - 164) Conc: 28.23663

Analysis Report (B)

Injected on	May 21, 2017 19:28:57
Instrument	17342B
Result file	20PCBS17137004B.031.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 92% (61 - 152) Conc: 25.74519
%SSR(DCB) 98% (48 - 164) Conc: 27.43111

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	610836	25.76777	Tetrachloro-m-xylene	2.59	2.62	2.65	3712638	25.74519
Decachlorobiphenyl	6.58	6.61	6.64	405340	28.23663	Decachlorobiphenyl	6.08	6.11	6.14	2787699	27.43111

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	25.76777				0.09	
☑	Decachlorobiphenyl	A	28.23663				2.89	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.34**	
4.73	4.76	4.77	432881.1	495.160057			1
5.03	5.05	5.07	320943.3	664.419393			2
5.20	5.23	5.24	310307.3	548.632871			3
5.37	5.39	5.41	388010.2	601.238658			4
5.61	5.63	5.65	947083.2	605.398612			5
5.82	5.84	5.86	558964.3	636.040145			6

Height summation: **2958189.4**
Concentration CF: **591.814956** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.77**	
4.31	4.33	4.35	2921418	496.03361			1
4.44	4.46	4.48	4031496	580.460505			2
4.55	4.57	4.59	2699508	483.090722			3
4.90	4.92	4.94	2181480	507.868592			4
5.09	5.11	5.13	5736005	588.438122			5
5.35	5.37	5.39	3930952	602.824618			6

Height summation: **21500859**
Concentration CF: **543.119362** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<244.4871	<47.4593			4	
☑	PCB-1221			<244.4871	<73.3461			3	
☑	PCB-1232			<244.4871	<58.9645			4	
☑	PCB-1242			<244.4871	<58.9645			4	
☑	PCB-1248			<244.4871	<47.4593			4	
☑	PCB-1254			<244.4871	<63.279			4	
☑	PCB-1260	A	591.814956	244.4871	56.0882		8.58	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998251** ACF DF5 42A16 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342A
Result file : 20PCBS17137004.031.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 92% (61-152) Conc.: 25.76777
%SSR(DCB) : 101% (48-164) Conc.: 28.23663

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	77.19	
3.16	3.20	3.20	10204.51	23.841155			1
3.37	3.40	3.41	1814.454	4.15151			2
+ 3.49	3.51	3.53	1195.072	2.428725			3
3.49	3.53	3.53	1364.838	2.773738			3
3.71	3.74	3.75	14025.07	25.72626			4
3.76	3.79	3.80	3178.508	7.128237			5
3.96	3.98	4.00	4979.155	13.926323			6
Height Summation:			**35566.535**				
Amount Avg CF:			**12.924537**	Linear:			
Aroclor-1221					2	61.39	
3.11	3.13	3.15	1246.527	7.032321			2
3.16	3.20	3.20	10204.51	17.820151			3
Height Summation:			**11451.037**				
Amount Avg CF:			**12.426236**	Linear:			
Aroclor-1232					6	80.55	
3.16	3.20	3.20	10204.51	19.86618			1
3.38	3.40	3.42	1814.454	8.778592			2
+ 3.49	3.51	3.53	1195.072	5.269495			3
3.49	3.53	3.53	1364.838	6.018053			3
3.71	3.74	3.75	14025.07	57.007341			4
3.77	3.79	3.81	3178.508	16.479366			5
3.96	3.98	4.00	4979.155	33.395173			6
Height Summation:			**35566.535**				
Amount Avg CF:			**23.590784**	Linear:			
Aroclor-1242					6	75.63	
3.16	3.20	3.20	10204.51	27.829691			1
3.38	3.40	3.42	1814.454	5.011131			2
+ 3.49	3.51	3.53	1195.072	3.014199			3
3.49	3.53	3.53	1364.838	3.442381			3
3.71	3.74	3.75	14025.07	31.444923			4
3.77	3.79	3.81	3178.508	9.10197			5
3.96	3.98	4.00	4979.155	17.441501			6
Height Summation:			**35566.535**				
Amount Avg CF:			**15.711933**	Linear:			
Aroclor-1248					6	167.77	
3.76	3.79	3.80	3178.508	13.129126			1
3.83	3.86	3.87	15928.49	36.17855			2
3.96	3.98	4.00	4979.155	9.602893			3
4.05	4.06	4.09	11594.13	26.898637			4
4.23	4.23	4.27	74024.02	144.973379			5
+ 4.23	4.25	4.27	11438.46	22.401812			5
4.61	4.64	4.65	226669.9	605.582258			6
Height Summation:			**336374.203**				
Amount Avg CF:			**139.39414**	Linear:			
Aroclor-1254					6	109.14	
4.21	4.23	4.25	74024.02	122.959324			1
4.55	4.58	4.59	31073.84	51.360556			2
+ 4.55	4.59	4.59	22675.96	37.480077			2
4.61	4.64	4.65	226669.9	185.499882			3
4.73	4.76	4.77	432881.1	1180.239336			4
4.83	4.85	4.87	152765	189.180745			5
5.14	5.17	5.18	791770.6	954.520246			6
Height Summation:			**1709184.46**				
Amount Avg CF:			**447.293348**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342B
Result file : 20PCBS17137004B.031.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 92% (61-152) Conc.: 25.74519
%SSR(DCB) : 98% (48-164) Conc.: 27.43111

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	50.56	
2.88	2.91	2.92	65033.98	27.57114			1
+ 3.21	3.23	3.25	12292.77	4.193673			2
3.21	3.24	3.25	16782.29	5.725271			2
+ 3.40	3.41	3.44	56598.97	19.215894			3
3.40	3.43	3.44	70950.35	24.088326			3
3.47	3.49	3.51	29730.98	8.535426			4
3.63	3.65	3.67	52630.6	17.983719			5
3.72	3.73	3.76	63962	25.505525			6
+ 3.72	3.74	3.76	49612.59	19.783546			6
Height Summation:			**299090.2**				
Amount Avg CF:			**18.234901**	Linear:			
Aroclor-1221					3	71.54	
2.77	2.78	2.81	13504.68	10.848613			1
2.83	2.84	2.87	2896.872	3.775077			2
2.88	2.91	2.92	65033.98	20.429726			3
Height Summation:			**81435.532**				
Amount Avg CF:			**11.684472**	Linear:			
Aroclor-1232					6	57.92	
+ 2.88	2.88	2.92	8810.049	3.057203			1
2.88	2.91	2.92	65033.98	22.567646			1
+ 3.21	3.23	3.25	12292.77	8.826216			2
3.21	3.24	3.25	16782.29	12.049694			2
+ 3.40	3.41	3.44	56598.97	45.423009			3
3.40	3.43	3.44	70950.35	56.940584			3
3.47	3.49	3.51	29730.98	19.421138			4
3.66	3.68	3.70	14637.4	35.011721			5
3.73	3.73	3.77	63962	58.355082			6
+ 3.73	3.74	3.77	49612.59	45.263543			6
Height Summation:			**261097**				
Amount Avg CF:			**34.057644**	Linear:			
Aroclor-1242					6	49.06	
+ 2.88	2.88	2.92	8810.049	4.343891			1
2.88	2.91	2.92	65033.98	32.065715			1
+ 3.21	3.23	3.25	12292.77	5.075129			2
3.21	3.24	3.25	16782.29	6.928649			2
+ 3.40	3.41	3.44	56598.97	23.762057			3
3.40	3.43	3.44	70950.35	29.787225			3
3.47	3.49	3.51	29730.98	10.921248			4
3.64	3.65	3.68	52630.6	23.481098			5
3.73	3.73	3.77	63962	31.858628			6
+ 3.73	3.74	3.77	49612.59	24.711376			6
Height Summation:			**299090.2**				
Amount Avg CF:			**22.507094**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998251** ACF DF5 42A16 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342A
Result file : 20PCBS17137004.031.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	10.34	
4.73	4.76	4.77	432881.1	495.160057			1
5.03	5.05	5.07	320943.3	664.419393			2
5.20	5.23	5.24	310307.3	548.632871			3
5.37	5.39	5.41	388010.2	601.238658			4
5.61	5.63	5.65	947083.2	605.398612			5
5.82	5.84	5.86	558964.3	636.040145			6
Height Summation:			**2958189.4**				
Amount Avg CF:			**591.814956**	Linear:			
Aroclor-1262					6	42.77	
5.21	5.23	5.24	310307.3	297.97956			1
5.37	5.39	5.41	388010.2	461.214525			2
5.61	5.63	5.65	947083.2	465.774019			3
5.81	5.84	5.85	558964.3	497.420219			4
5.87	5.88	5.91	50736.8	91.142372			5
+ 5.87	5.89	5.91	39835.18	71.558963			5
6.25	6.27	6.29	225891.3	333.544619			6
Height Summation:			**2480993.1**				
Amount Avg CF:			**357.845886**	Linear:			
Aroclor-1268					6	122.70	
5.81	5.84	5.85	558964.3	223.692842			1
5.87	5.88	5.91	50736.8	23.271183			2
+ 5.87	5.89	5.91	39835.18	18.270994			2
6.00	6.02	6.04	17212.4	8.466533			3
6.07	6.09	6.11	20833.14	44.698151			4
6.25	6.27	6.29	225891.3	269.005947			5
6.45	6.47	6.49	51210.06	7.792785			6
Height Summation:			**924848**				
Amount Avg CF:			**96.154574**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342B
Result file : 20PCBS17137004B.031.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	128.94	
+ 3.40	3.41	3.44	56598.97	48.72178			1
3.40	3.43	3.44	70950.35	61.0758			1
3.51	3.53	3.55	119578.9	36.496962			2
3.63	3.65	3.67	52630.6	12.857326			3
3.72	3.73	3.76	63962	21.640047			4
+ 3.72	3.74	3.76	49612.59	16.785259			4
3.86	3.88	3.90	639506.8	114.230123			5
+ 4.22	4.22	4.26	204948	82.798127			6
4.22	4.24	4.26	867668.6	350.534452			6
+ 4.22	4.25	4.26	564078.4	227.885293			6
Height Summation:			**1814297.25**				
Amount Avg CF:			**99.472452**	Linear:			
Aroclor-1254					6	111.86	
4.16	4.18	4.19	455711	104.498549			1
+ 4.22	4.22	4.26	204948	26.48651			2
4.22	4.24	4.26	867668.6	112.133385			2
+ 4.22	4.25	4.26	564078.4	72.898824			2
4.31	4.33	4.35	2921418	811.609534			3
4.38	4.40	4.42	813502.2	156.393659			4
4.44	4.46	4.48	4031496	1345.870647			5
4.60	4.62	4.64	779562	213.621352			6
Height Summation:			**9869357.8**				
Amount Avg CF:			**457.354521**	Linear:			
Aroclor-1260					6	9.77	
4.31	4.33	4.35	2921418	496.03361			1
4.44	4.46	4.48	4031496	580.460505			2
4.55	4.57	4.59	2699508	483.090722			3
4.90	4.92	4.94	2181480	507.868592			4
5.09	5.11	5.13	5736005	588.438122			5
5.35	5.37	5.39	3930952	602.824618			6
Height Summation:			**21500859**				
Amount Avg CF:			**543.119362**	Linear:			
Aroclor-1262					6	33.65	
4.71	4.73	4.75	1659716	245.475044			1
4.90	4.92	4.94	2181480	324.348564			2
5.09	5.11	5.13	5736005	448.372136			3
5.31	5.33	5.35	955557.9	180.258741			4
5.35	5.37	5.39	3930952	460.70032			5
5.73	5.75	5.77	1436015	310.977519			6
Height Summation:			**15899725.9**				
Amount Avg CF:			**328.355387**	Linear:			
Aroclor-1268					6	118.34	
5.31	5.33	5.35	955557.9	55.348257			1
5.35	5.37	5.39	3930952	224.888643			2
5.51	5.53	5.55	111708.2	7.438824			3
5.57	5.60	5.61	81346.46	22.404957			4
5.73	5.75	5.77	1436015	244.065927			5
5.93	5.95	5.97	322478.2	7.211558			6
Height Summation:			**6838057.76**				
Amount Avg CF:			**93.559694**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			244.487	47.4592		34.09	4	40	
Aroclor-1221			244.487	73.3461		6.15	3	5	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998251** ACF DF5 42A16 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.43 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342A
Result file : 20PCBS17137004.031.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 19:28:57
Instrument : CP20--17342B
Result file : 20PCBS17137004B.031.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1232			244.487	58.9645		36.31	4	10	
Aroclor-1242			244.487	58.9645		35.56	4	30	
Aroclor-1248			244.487	47.4592		33.43	4	40	
Aroclor-1254			244.487	63.279		2.22	4	40	
Aroclor-1260			244.487	56.0882		8.58	4	40	
Aroclor-1262			244.487	47.4592		8.60	4	40	
Aroclor-1268			244.487	47.4592		2.74	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998251ACF DF5 AC42A16 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:28:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.031.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.008		1816	938
2.104		9756	12582
2.131		18514	10980
2.198		7097	4576
2.219		1797	1137
2.311		23522	17179
2.389		2330	3389
2.427		2797	2360
2.553		1002	735
2.628		4602	3058
2.649		3330	1554
2.745		1799	2191
2.776		31936	27117
2.829		3332	2832
2.925	TCX	610836	401205
3.039		2217	1437
3.125		1247	766
3.195		10205	8444
3.231		32426	17620
3.244		18289	8091
3.398		1814	1237
3.48		1323	1621
3.514		1195	570
3.529		1365	982
3.588		5718	4023
3.667		2571	2122
3.701		6922	5733
3.736		14025	11429
3.788		3179	2585
3.828		958	818
3.856		15928	11798
3.89		7828	8161
3.904		9564	5056
3.98		4979	3617
4.036		3493	2472
4.062		11594	13506
4.111		5757	4475
4.14		2318	1549
4.191		4965	3292
4.229		74024	59980
4.249		11438	5823
4.273		28730	22093
4.299		2770	1703
4.34		31819	26566
4.383		149463	143982
4.416		56044	45384
4.456		12507	9595
4.479		6955	4717
4.52		65935	68383
4.575		31074	21152
4.589		22676	25656
4.636		226670	201905
4.681		163542	190127
4.719		54020	38212

RT A	Compound A	Height A	Area A
4.758		432881	403727
4.807		16171	17717
4.849		152765	157399
4.879		7996	4687
4.905		106779	98597
4.957		605070	762698
5.008		94969	83345
5.05		320943	328416
5.093		18436	12624
5.13		65242	80747
5.166		791771	863461
5.228		310307	274907
5.271		207386	212313
5.393		388010	553225
5.451		186113	173252
5.492		107609	101368
5.532		24075	23021
5.577		128541	121359
5.603		7611	4165
5.632		947083	987975
5.721		2032	3210
5.84		558964	557400
5.876		50737	53875
5.891		39835	32927
6.023		17212	23094
6.087		20833	15497
6.111		87392	79413
6.268		225891	220171
6.313		14473	14308
6.39		811	953
6.469		51210	53031
6.615	DCB	405340	453160
6.692		1843	2163
6.925		1200	3326
7.092		679	1499
7.225		1654	1867
7.657		631	1144
7.785		1413	2124
7.87		899	486
8.031		11531	19186
8.322		637	780
8.681		3279	3496

LANCASTER LABORATORIES

Sample Number: 8998251ACF DF5 AC42A16 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:28:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.031.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		13355	11390
2.114		15645	11995
2.157		8987	5616
2.186		8061	10221
2.238		14623	24219
2.32		5915	5300
2.349		26335	16620
2.364		20178	9439
2.412		1426	993
2.434		8694	4888
2.484		4747	7850
2.526		6648	4967
2.547		83619	72371
2.592		3826	2441
2.616	TCX	3712638	2206613
2.706		8197	14952
2.785		13505	6880
2.836		2897	1176
2.878		8810	7240
2.912		65034	25723
2.922		179593	78833
2.948		3259	2308
2.991		4603	8560
3.033		3558	1822
3.107		21612	34126
3.18		15499	18068
3.228		12293	7290
3.245		16782	9080
3.265		35691	24259
3.325		35032	33614
3.356		3174	1909
3.385		17372	14368
3.406		56599	34124
3.435		70950	47273
3.494		29731	26176
3.528		119579	71022
3.551		160720	86929
3.569		122744	62506
3.587		10681	6234
3.655		52631	36385
3.677		14637	7472
3.7		42521	35956
3.727		63962	34339
3.743		49613	25157
3.78		33665	26859
3.831		52823	51328
3.855		21477	13644
3.875		639507	417755
3.901		105815	59114
3.921		95267	53006
3.94		200889	120339
3.975		990882	671604
4.006		392618	248417
4.024		84974	63199

RT B	Compound B	Height B	Area B
4.086		50374	54140
4.119		299737	310708
4.14		18654	23593
4.176		455711	328390
4.218		204948	209975
4.237		867669	464680
4.25		564078	264134
4.275		493536	480497
4.328		2921418	2302375
4.367		148054	134518
4.398		813502	551939
4.422		753763	540915
4.465		4031496	3052158
4.519		7199	6061
4.568		2699508	2625868
4.619		779562	702396
4.659		881366	772935
4.695		4493005	3761431
4.728		1659716	1129791
4.766		1291632	1033735
4.84		40890	34126
4.866		314701	210152
4.883		101887	53856
4.917		2181480	1705072
4.941		590671	400093
4.991		1305426	1147951
5.027		695796	552137
5.056		497991	401199
5.089		216388	128847
5.111		5736005	4832569
5.153		122093	90797
5.184		220902	175448
5.249		8640	5853
5.303		48225	29494
5.326		955558	814016
5.371		3930952	4085591
5.442		6377	5223
5.526		111708	94051
5.571		122359	97064
5.595		81346	57162
5.644		661790	552767
5.683		4412	4566
5.722		2559	1196
5.751		1436015	1204039
5.782		84117	64221
5.95		322478	282495
6.06		1755	1586
6.109	DCB	2787699	2396008
6.283		8364	6400
6.311		52684	49811
6.375		4954	4936
6.452		2716	2683
6.533		22164	23496
6.589		7560	18616
6.649		2786	3163
6.716		1482	1045
6.79		4038	3589
6.917		1933	1741
7.014		7072	6953
7.046		2682	2688
7.197		1474	1058
7.438		1609	5390
7.467		3821	4466
7.558		64441	85435
8.216		18637	34107
8.435		3702	9094

8998251ACF DF5 AC42A16 T 171380028A 10225 SW-846 8082

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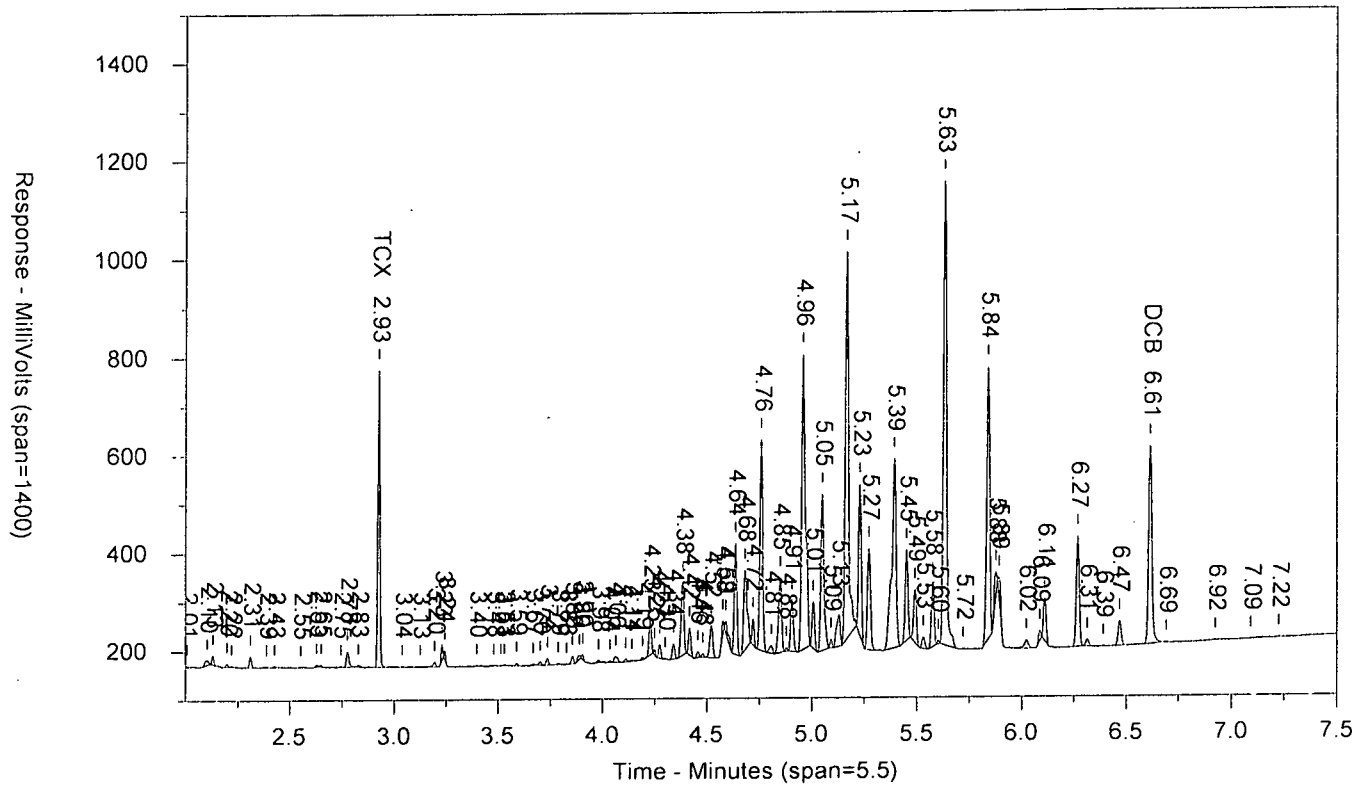

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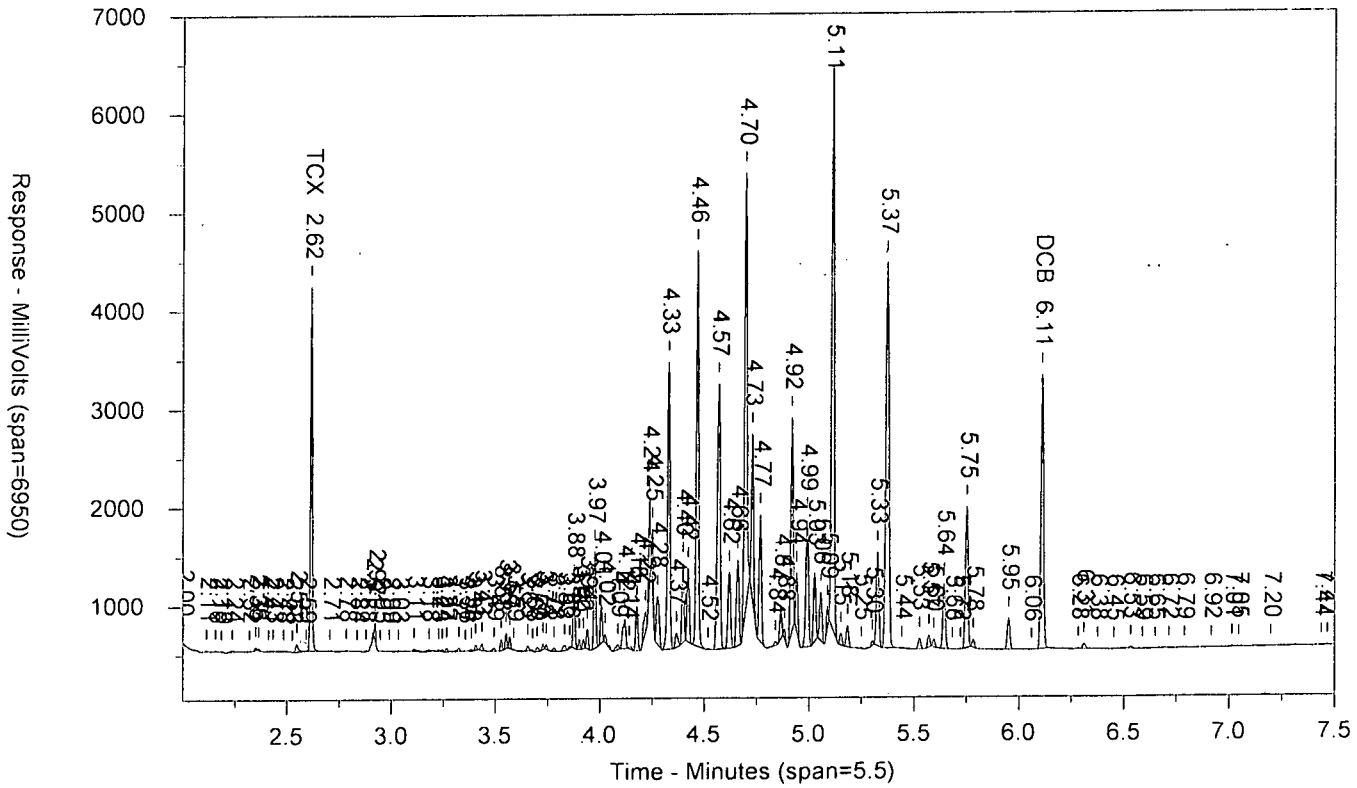

LANCASTER LABORATORIES

Sample Number: 8998251ACF DF5 AC42A16 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:28:57 PM Sample Weight: 10.43
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	610836	25.768	TCX	2.616	3712638	25.745	TCX
6.615	405340	28.237	DCB	6.109	2787699	27.431	DCB

Files:
Area File: 20pcbs17137004.031.RAW
Area File: 20pcbs17137004B.031.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 7:37:41 PM
File Reported On: 5/21/2017 at 7:37:51 PM

8998251ACF DF5 AC42A16 T 171380028A 10225 SW-846 8082

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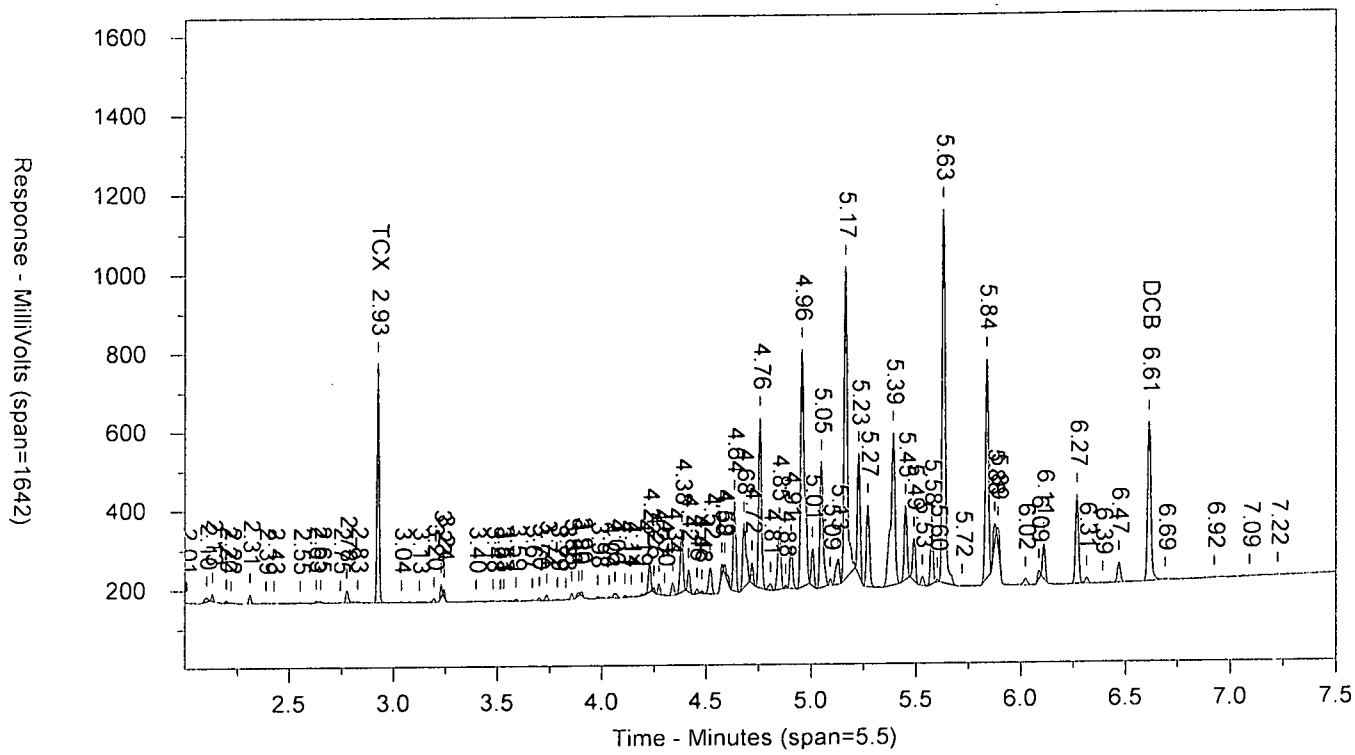

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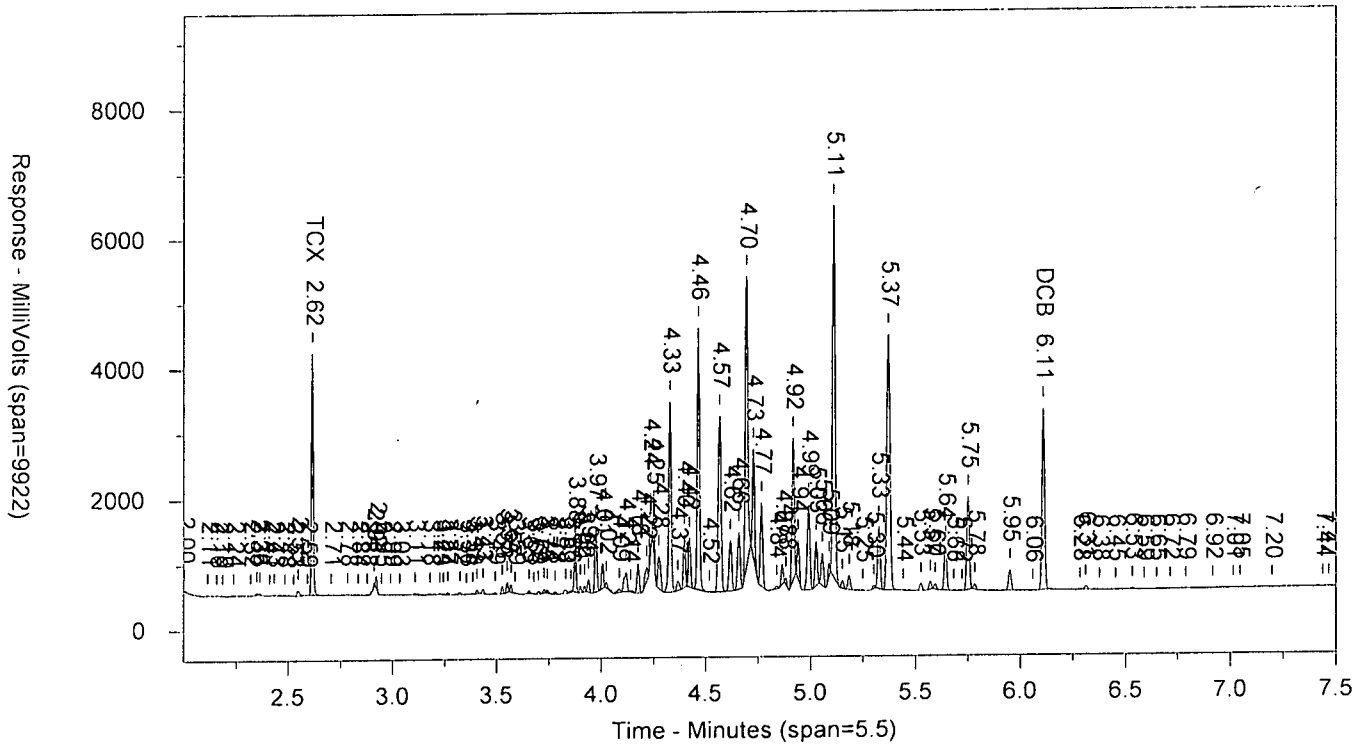

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Data Summary

Sample Name: 8998252 ACF DF5 42A17 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 19:40:26
Instrument	17342A
Result file	20PCBS17137004.032.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 85% (61 - 152) Conc: 24.12583
%SSR(DCB) 100% (48 - 164) Conc: 28.41496

Analysis Report (B)

Injected on	May 21, 2017 19:40:26
Instrument	17342B
Result file	20PCBS17137004B.032.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 89% (61 - 152) Conc: 25.33168
%SSR(DCB) 97% (48 - 164) Conc: 27.50379

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	566429	24.12583
Decachlorobiphenyl	6.58	6.61	6.64	403989	28.41496

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	3617982	25.33168
Decachlorobiphenyl	6.08	6.11	6.14	2768286	27.50379

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	25.33168				4.88	
☑ Decachlorobiphenyl	A	28.41496				3.26	

Multiple Component Data

Aroclor-1260 (%RSD 15.54)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	1285939	1485.187667			1
5.03	5.05	5.07	1110415	2321.043569			2
5.20	5.23	5.24	953863.6	1702.786095			3
5.37	5.39	5.41	1189383	1860.841864			4
5.61	5.63	5.65	3241217	2091.921498			5
5.82	5.84	5.86	1770675	2034.33888			6

Height summation: **9551492.6**
Concentration CF: **1916.019929** L:

Aroclor-1260 (%RSD 12.78)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	9376415	1607.452734			1
4.44	4.46	4.48	12577780	1828.49772			2
4.55	4.57	4.59	9118906	1647.672159			3
4.90	4.92	4.94	7200624	1692.599626			4
5.09	5.11	5.13	20796010	2154.047541			5
5.35	5.37	5.39	13519990	2093.406633			6

Height summation: **72589725**
Concentration CF: **1837.279402** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<246.8538	<47.9187			4	
☑ PCB-1221			<246.8538	<74.0561			3	
☑ PCB-1232			<246.8538	<59.5353			4	
☑ PCB-1242			<246.8538	<59.5353			4	
☑ PCB-1248			<246.8538	<47.9187			4	
☑ PCB-1254			<246.8538	<63.8916			4	
☑ PCB-1260	A	1916.019929	246.8538	56.6312		4.20	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998252** ACF DF5 42A17 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342A
Result file : 20PCBS17137004.032.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 85% (61-152) Conc.: 24.12583
%SSR(DCB) : 100% (48-164) Conc.: 28.41496

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**94.98**	
3.16	3.18	3.20	3803.244	8.97167			1
3.37	3.40	3.41	5219.747	12.058507			2
3.49	3.51	3.53	9587.933	19.674029			3
3.71	3.73	3.75	50336.92	93.227114			4
3.76	3.79	3.80	8879.386	20.106004			5
3.96	3.98	4.00	18832.32	53.182484			6
Height Summation:			**96659.55**				
Amount Avg CF:			**34.536635**	Linear:			
Aroclor-1221					**3**	**19.31**	
3.06	3.08	3.10	1689.499	8.319747			1
3.11	3.12	3.15	996.5942	5.676745			2
3.16	3.18	3.20	3803.244	6.705905			3
Height Summation:			**6489.3372**				
Amount Avg CF:			**6.900799**	Linear:			
Aroclor-1232					**6**	**100.04**	
3.16	3.18	3.20	3803.244	7.475847			1
3.38	3.40	3.42	5219.747	25.498365			2
+ 3.38	3.41	3.42	3910.949	19.104912			2
3.49	3.51	3.53	9587.933	42.685844			3
3.71	3.73	3.75	50336.92	206.583853			4
3.77	3.79	3.81	8879.386	46.481926			5
3.96	3.98	4.00	18832.32	127.531028			6
Height Summation:			**96659.55**				
Amount Avg CF:			**76.042811**	Linear:			
Aroclor-1242					**6**	**94.47**	
3.16	3.18	3.20	3803.244	10.472597			1
3.38	3.40	3.42	5219.747	14.555369			2
+ 3.38	3.41	3.42	3910.949	10.905759			2
3.49	3.51	3.53	9587.933	24.416691			3
3.71	3.73	3.75	50336.92	113.95047			4
3.77	3.79	3.81	8879.386	25.673141			5
3.96	3.98	4.00	18832.32	66.606408			6
Height Summation:			**96659.55**				
Amount Avg CF:			**42.612446**	Linear:			
Aroclor-1248					**6**	**180.96**	
3.76	3.79	3.80	8879.386	37.032192			1
3.83	3.86	3.87	44500.5	102.052917			2
3.96	3.98	4.00	18832.32	36.67197			3
4.05	4.06	4.09	38933.07	91.199979			4
4.23	4.23	4.27	167435.6	331.091007			5
+ 4.23	4.25	4.27	59342.21	117.344651			5
4.61	4.64	4.65	771002.7	2079.788514			6
Height Summation:			**1049583.576**				
Amount Avg CF:			**446.306097**	Linear:			
Aroclor-1254					**6**	**106.82**	
4.21	4.23	4.25	167435.6	280.815186			1
4.55	4.57	4.59	83316.99	139.044032			2
+ 4.55	4.59	4.59	50260.99	83.878339			2
4.61	4.64	4.65	771002.7	637.073692			3
4.73	4.76	4.77	1285939	3540.020812			4
4.83	4.85	4.87	605577.6	757.193465			5
5.14	5.17	5.18	2570342	3128.676591			6
Height Summation:			**5483613.89**				
Amount Avg CF:			**1413.803963**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342B
Result file : 20PCBS17137004B.032.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 89% (61-152) Conc.: 25.33168
%SSR(DCB) : 97% (48-164) Conc.: 27.50379

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**76.23**	
2.88	2.91	2.92	419193	179.437164			1
3.21	3.23	3.25	64934.04	22.366667			2
+ 3.21	3.24	3.25	24661.26	8.494623			2
+ 3.40	3.40	3.44	126224.1	43.269148			3
3.40	3.43	3.44	244208.4	83.713723			3
3.47	3.49	3.51	84575.27	24.515648			4
3.63	3.65	3.67	169055.8	58.325067			5
+ 3.72	3.73	3.76	190719.6	76.787681			6
3.72	3.74	3.76	215373.1	86.713693			6
Height Summation:			**1197339.61**				
Amount Avg CF:			**75.845327**	Linear:			
Aroclor-1221					**3**	**83.37**	
2.77	2.79	2.81	143145.6	116.10526			1
2.83	2.84	2.87	2838.467	3.734775			2
2.88	2.91	2.92	419193	132.959756			3
Height Summation:			**565177.067**				
Amount Avg CF:			**84.266597**	Linear:			
Aroclor-1232					**6**	**74.87**	
+ 2.88	2.88	2.92	5952.282	2.085515			1
2.88	2.91	2.92	419193	146.873668			1
3.21	3.23	3.25	64934.04	47.074013			2
+ 3.21	3.24	3.25	24661.26	17.878211			2
+ 3.40	3.40	3.44	126224.1	102.280689			3
3.40	3.43	3.44	244208.4	197.884583			3
3.47	3.49	3.51	84575.27	55.781839			4
+ 3.66	3.68	3.70	67073.88	161.989527			5
3.66	3.70	3.70	168613	407.215746			5
+ 3.73	3.73	3.77	190719.6	175.685517			6
3.73	3.74	3.77	215373.1	198.395626			6
Height Summation:			**1196896.81**				
Amount Avg CF:			**175.537579**	Linear:			
Aroclor-1242					**6**	**71.95**	
+ 2.88	2.88	2.92	5952.282	2.963249			1
2.88	2.91	2.92	419193	208.688542			1
3.21	3.23	3.25	64934.04	27.067851			2
+ 3.21	3.24	3.25	24661.26	10.280083			2
+ 3.40	3.40	3.44	126224.1	53.505912			3
3.40	3.43	3.44	244208.4	103.519004			3
3.47	3.49	3.51	84575.27	31.368259			4
3.64	3.65	3.68	169055.8	76.15425			5
+ 3.73	3.73	3.77	190719.6	95.914519			6
3.73	3.74	3.77	215373.1	108.312975			6
Height Summation:			**1197339.61**				
Amount Avg CF:			**92.51848**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998252** ACF DF5 42A17 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342A
Result file : 20PCBS17137004.032.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	15.54	
4.73	4.76	4.77	1285939	1485.187667			1
5.03	5.05	5.07	1110415	2321.043569			2
5.20	5.23	5.24	953863.6	1702.786095			3
5.37	5.39	5.41	1189383	1860.841864			4
5.61	5.63	5.65	3241217	2091.921498			5
5.82	5.84	5.86	1770675	2034.33888			6
Height Summation:			**9551492.6**				
Amount Avg CF:			**1916.019929**	Linear:			
Aroclor-1262					6	45.78	
5.21	5.23	5.24	953863.6	924.83604			1
E 5.37	5.39	5.41	1189383	1427.465259			2
E 5.61	5.63	5.65	3241217	1609.456421			3
E 5.81	5.84	5.85	1770675	1590.970787			4
5.87	5.88	5.91	139134.5	252.357417			5
+ 5.87	5.89	5.91	103215.2	187.208214			5
E 6.25	6.27	6.29	682937.8	1018.1683			6
Height Summation:			**7977210.9**				
Amount Avg CF:			**1137.209037**	Linear:			
Aroclor-1268					6	127.85	
5.81	5.84	5.85	1770675	715.469063			1
5.87	5.88	5.91	139134.5	64.433869			2
+ 5.87	5.89	5.91	103215.2	47.799465			2
6.00	6.02	6.04	30418.53	15.107283			3
6.07	6.09	6.11	51058.92	110.608994			4
6.25	6.27	6.29	682937.8	821.159486			5
6.45	6.47	6.49	139745.5	21.471344			6
Height Summation:			**2813970.25**				
Amount Avg CF:			**291.375007**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342B
Result file : 20PCBS17137004B.032.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	140.15	
+ 3.40	3.40	3.44	126224.1	109.708655			1
3.40	3.43	3.44	244208.4	212.255623			1
3.51	3.53	3.55	329127.7	101.426301			2
3.63	3.65	3.67	169055.8	41.699073			3
+ 3.72	3.73	3.76	190719.6	65.150158			4
3.72	3.74	3.76	215373.1	73.571837			4
3.86	3.88	3.90	1637224	295.275603			5
+ 4.22	4.22	4.26	705098.8	287.614509			6
4.22	4.24	4.26	3066710	1250.931487			6
+ 4.22	4.25	4.26	1466208	598.076034			6
Height Summation:			**5661699**				
Amount Avg CF:			**329.193321**	Linear:			
Aroclor-1254					6	104.20	
4.16	4.18	4.19	1363430	315.673103			1
+ 4.22	4.22	4.26	705098.8	92.005759			2
4.22	4.24	4.26	3066710	400.163752			2
+ 4.22	4.25	4.26	1466208	191.32011			2
4.31	4.33	4.35	9376415	2630.112028			3
4.38	4.40	4.42	3251406	631.125313			4
4.44	4.46	4.48	12577780	4239.601814			5
4.60	4.62	4.64	3229116	893.432262			6
Height Summation:			**32864857**				
Amount Avg CF:			**1518.351379**	Linear:			
Aroclor-1260					6	12.78	
4.31	4.33	4.35	9376415	1607.452734			1
4.44	4.46	4.48	12577780	1828.49772			2
4.55	4.57	4.59	9118906	1647.672159			3
4.90	4.92	4.94	7200624	1692.599626			4
5.09	5.11	5.13	20796010	2154.047541			5
5.35	5.37	5.39	13519990	2093.406633			6
Height Summation:			**72589725**				
Amount Avg CF:			**1837.279402**	Linear:			
Aroclor-1262					6	36.73	
4.71	4.73	4.75	5541410	827.51874			1
E 4.90	4.92	4.94	7200624	1080.973045			2
E 5.09	5.11	5.13	20796010	1641.319386			3
5.31	5.33	5.35	3203604	610.18586			4
E 5.35	5.37	5.39	13519990	1599.856868			5
E 5.73	5.75	5.77	4639425	1014.420842			6
Height Summation:			**54901063**				
Amount Avg CF:			**1129.04579**	Linear:			
Aroclor-1268					6	123.77	
5.31	5.33	5.35	3203604	187.356926			1
5.35	5.37	5.39	13519990	780.962426			2
5.51	5.53	5.55	236793.1	15.92107			3
5.57	5.60	5.61	128501.9	35.735429			4
5.73	5.75	5.77	4639425	796.15261			5
5.93	5.95	5.97	939667.8	21.217151			6
Height Summation:			**22667981.8**				
Amount Avg CF:			**306.224269**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			246.8538	47.9187		** 74.85	4	40	
Aroclor-1221			246.8538	74.0561		** 169.72	3	5	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998252** ACF DF5 42A17 Sample ID: AC **Batchnumber: 171380028A**
Sample Amount: 10.33 g Total Volume: 50 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342A
Result file : 20PCBS17137004.032.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 19:40:26
Instrument : CP20--17342B
Result file : 20PCBS17137004B.032.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1232			246.8538	59.5353		** 79.10	4	10	
Aroclor-1242			246.8538	59.5353		** 73.86	4	30	
Aroclor-1248			246.8538	47.9187		30.20	4	40	
Aroclor-1254			246.8538	63.8916		7.13	4	40	
Aroclor-1260			246.8538	56.6312		4.20	4	40	
Aroclor-1262			246.8538	47.9187	E	0.72	4	40	
Aroclor-1268			246.8538	47.9187		4.97	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998252ACF DF5 AC42A17 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:40:26 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.032.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.004		778	449
2.039		4405	4494
2.101		6142	7320
2.131		29280	18303
2.199		25957	16876
2.286		982	585
2.311		18382	13747
2.386		3956	5291
2.425		1624	1475
2.552		1389	870
2.627		4816	2697
2.649		15695	9682
2.704		622	814
2.743		1867	1598
2.775		17444	13294
2.829		2057	2192
2.925	TCX	566429	388460
3.037		23014	14710
3.079		1689	1554
3.125		997	865
3.183		3803	4294
3.23		38985	18986
3.244		81203	44263
3.319		1431	1233
3.397		5220	3090
3.415		3911	3165
3.468		4287	5926
3.514		9588	6872
3.559		1436	1408
3.587		16973	12005
3.637		1334	1672
3.667		5442	3684
3.7		23279	21152
3.735		50337	40848
3.787		8879	8059
3.825		2660	2693
3.856		44501	33360
3.884		28946	24189
3.905		81336	51607
3.979		18832	12602
4.003		6111	4159
4.035		18133	12112
4.063		38933	49883
4.112		21511	16849
4.138		10157	6598
4.191		14754	10072
4.228		167436	130807
4.249		59342	33922
4.273		124374	97011
4.339		95129	80767
4.382		418783	413371
4.417		182124	151092
4.456		35106	27714
4.479		19950	13827

RT A	Compound A	Height A	Area A
4.52		194966	200500
4.575		83317	60288
4.589		50261	25321
4.605		50379	27945
4.636		771003	672682
4.681		495657	553021
4.719		146318	105470
4.757		1285939	1180161
4.808		65856	66598
4.849		605578	568947
4.879		17775	10587
4.905		298172	275176
4.958		1878001	2316344
5.007		260540	235562
5.051		1110415	1138400
5.093		65137	44226
5.13		189430	227435
5.166		2570342	2370256
5.188		78329	37137
5.228		953864	843221
5.272		684757	640493
5.323		5528	5029
5.394		1189383	1749576
5.451		573648	516418
5.491		333549	293871
5.532		60521	55368
5.576		435981	393203
5.603		26152	14317
5.633		3241217	3080678
5.668		22534	14537
5.722		6764	7665
5.756		2816	1951
5.778		2133	1267
5.798		2169	1659
5.839		1770675	1797780
5.879		139135	168644
5.892		103215	80068
5.991		2206	1758
6.025		30419	41614
6.087		51059	37612
6.112		276372	244077
6.178		1898	1618
6.237		1158	775
6.269		682938	688315
6.313		49437	45168
6.468		139746	149907
6.613	DCB	403989	456851
6.69		10822	10014
6.914		959	986
7.098		540	1054
7.508		643	704
7.708		621	1073
7.785		1807	3061
7.948		746	736
8.03		17299	29693
8.219		413	1015

LANCASTER LABORATORIES

Sample Number: 8998252ACF DF5 AC42A17 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:40:26 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.032.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		11280	6701
2.114		26680	25265
2.158		21027	14262
2.239		8938	11721
2.286		1967	1587
2.311		8419	3501
2.321		10570	4060
2.365		115081	83831
2.411		1853	1210
2.433		12478	6451
2.459		6681	6127
2.493		11423	8283
2.53		6474	4283
2.547		56526	46093
2.591		5375	3237
2.616	TCX	3617982	2125048
2.674		3847	2449
2.706		9196	15575
2.785		143146	81352
2.836		2838	1710
2.879		5952	4478
2.912		419193	196900
2.922		196380	66966
2.949		5288	4723
3.011		6773	8716
3.034		15309	8563
3.107		29841	14899
3.18		34481	23030
3.202		6405	2994
3.226		64934	40513
3.244		24661	11913
3.265		108764	69088
3.325		78645	70639
3.355		4613	2052
3.384		81033	61311
3.405		126224	64315
3.434		244208	191906
3.493		84575	72626
3.527		329128	195479
3.551		528338	286551
3.568		730051	390368
3.654		169056	114216
3.676		67074	35437
3.698		168613	133660
3.727		190720	99175
3.742		215373	116742
3.78		127844	96939
3.831		171695	164063
3.854		145443	90527
3.876		1637224	1063016
3.901		489208	282656
3.92		391616	213910
3.939		564240	331610
3.975		2883951	1932447

RT B	Compound B	Height B	Area B
4.006		1345521	881280
4.024		191386	87054
4.044		88785	44979
4.086		145446	126412
4.118		906534	931336
4.14		91453	88338
4.176		1363430	1002644
4.217		705099	752587
4.237		3066710	1711309
4.249		1466208	651322
4.275		1453973	1402028
4.328		9376415	7214728
4.366		537251	475748
4.398		3251406	2224161
4.422		2321472	1624463
4.465		12577780	9745895
4.518		14851	10313
4.567		9118906	8386214
4.617		3229116	2864905
4.659		2879374	2438675
4.696		15299640	12896580
4.728		5541410	3726540
4.766		4299451	3300640
4.824		29126	15481
4.839		42533	24361
4.866		933883	640018
4.882		306411	154649
4.917		7200625	5541437
4.941		1999515	1335867
4.991		4127861	3631867
5.027		2135377	1703644
5.056		1502776	1231410
5.089		798896	481944
5.111		20796010	16684240
5.152		398319	294356
5.184		577761	485666
5.227		16119	11303
5.248		40302	27381
5.283		15032	10573
5.303		154211	92791
5.326		3203604	2597134
5.371		13519990	13650980
5.423		5427	3580
5.444		29250	19502
5.47		5109	6400
5.526		236793	211190
5.57		410829	329673
5.595		128502	85098
5.617		25476	12260
5.644		2102269	1745573
5.686		14606	12586
5.723		6954	4161
5.75		4639425	3979045
5.782		267987	204198
5.861		5364	4175
5.892		4041	3869
5.949		939668	843789
5.996		6966	4810
6.063		3246	2263
6.108	DCB	2768287	2447474
6.144		7501	4978
6.239		2305	2518
6.283		52691	39414
6.31		106582	90402
6.374		4300	7021
6.486		2625	4150

RT B	Compound B	Height B	Area B
6.531		9923	13719
6.586		13036	32862
6.731		4903	5661
6.788		3144	2104
6.919		1990	1576
6.951		4156	4429
7.011		9349	10920
7.129		3602	4687
7.241		2387	4511
7.302		3245	4338
7.438		2007	4307
7.466		5621	6030
7.556		97557	124513
7.648		2085	2879
7.841		4260	9857
7.986		1802	1432
8.11		8455	13875
8.214		19011	34387
8.429		13638	26177

8998252ACF DF5 AC42A17 T 171380028A 10225 SW-846 8082

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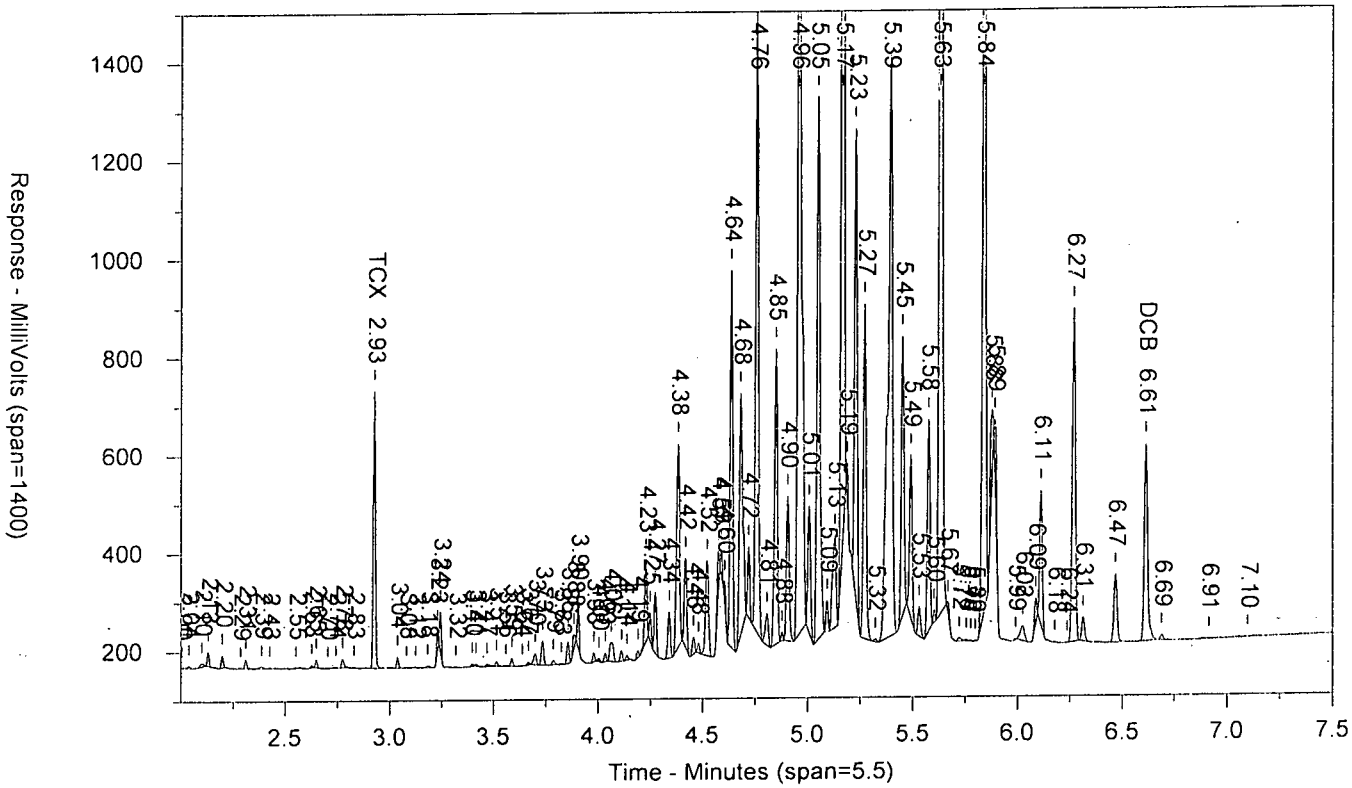

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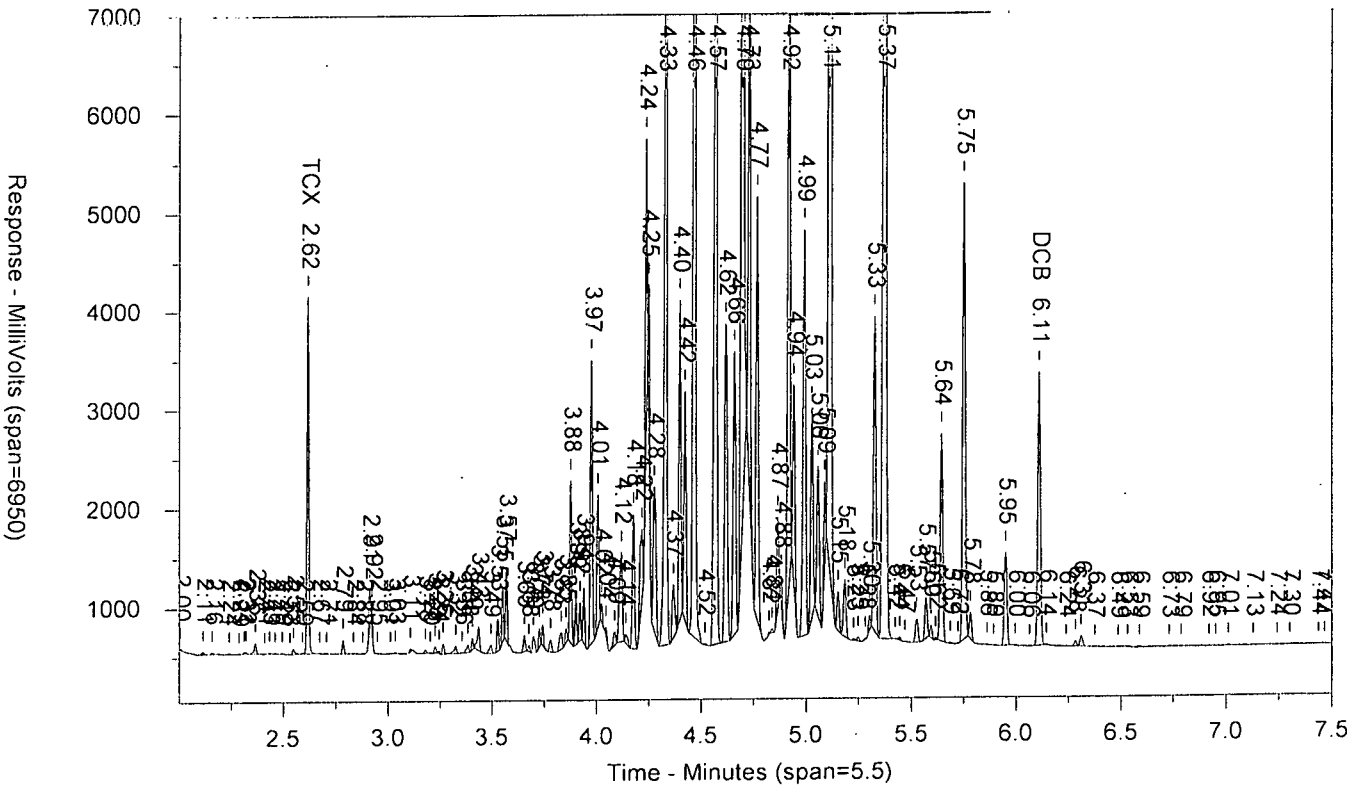

LANCASTER LABORATORIES

Sample Number: 8998252ACF DF5 AC42A17 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:40:26 PM Sample Weight: 10.33
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	566429	24.126	TCX	2.616	3617982	25.332	TCX
6.613	403989	28.415	DCB	6.108	2768287	27.504	DCB

Files:
Area File: 20pcbs17137004.032.RAW
Area File: 20pcbs17137004B.032.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 7:49:08 PM
File Reported On: 5/21/2017 at 7:49:13 PM

8998252ACF DF5 AC42A17 T 171380028A 10225 SW-846 8082

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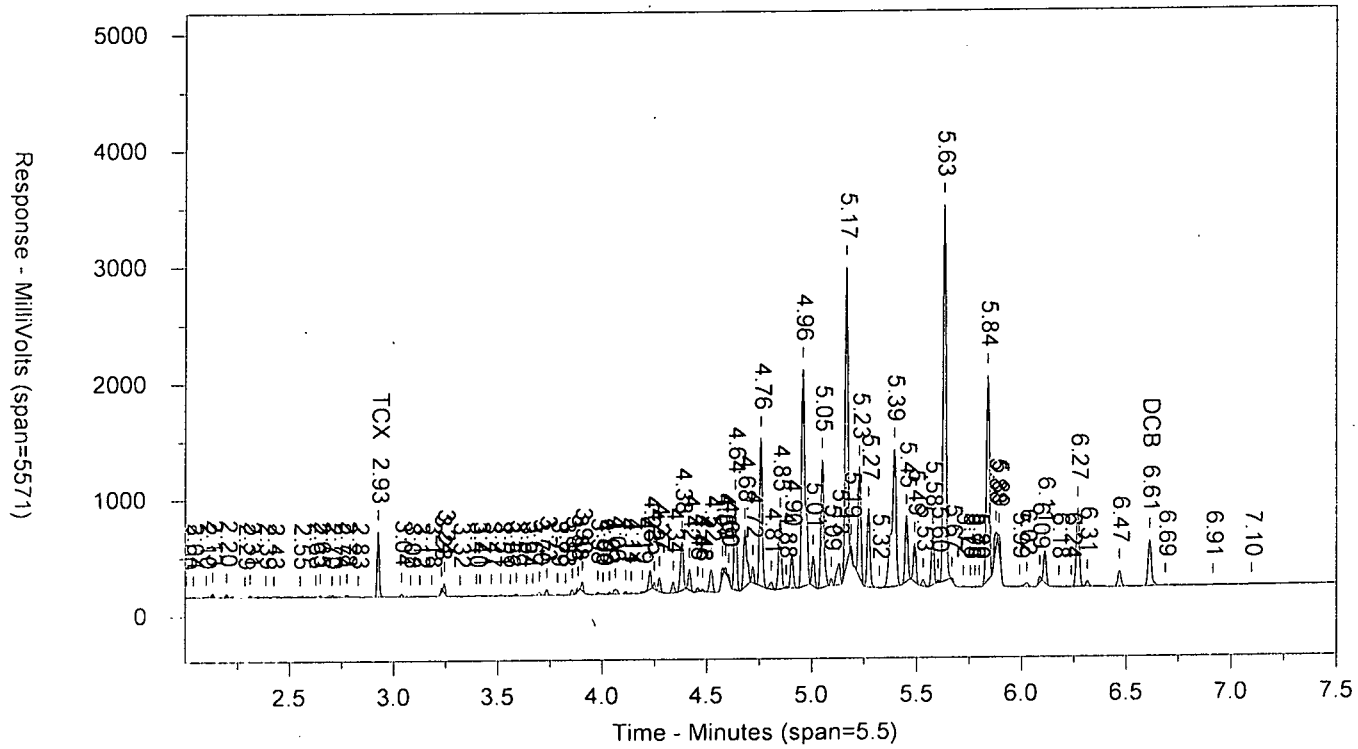

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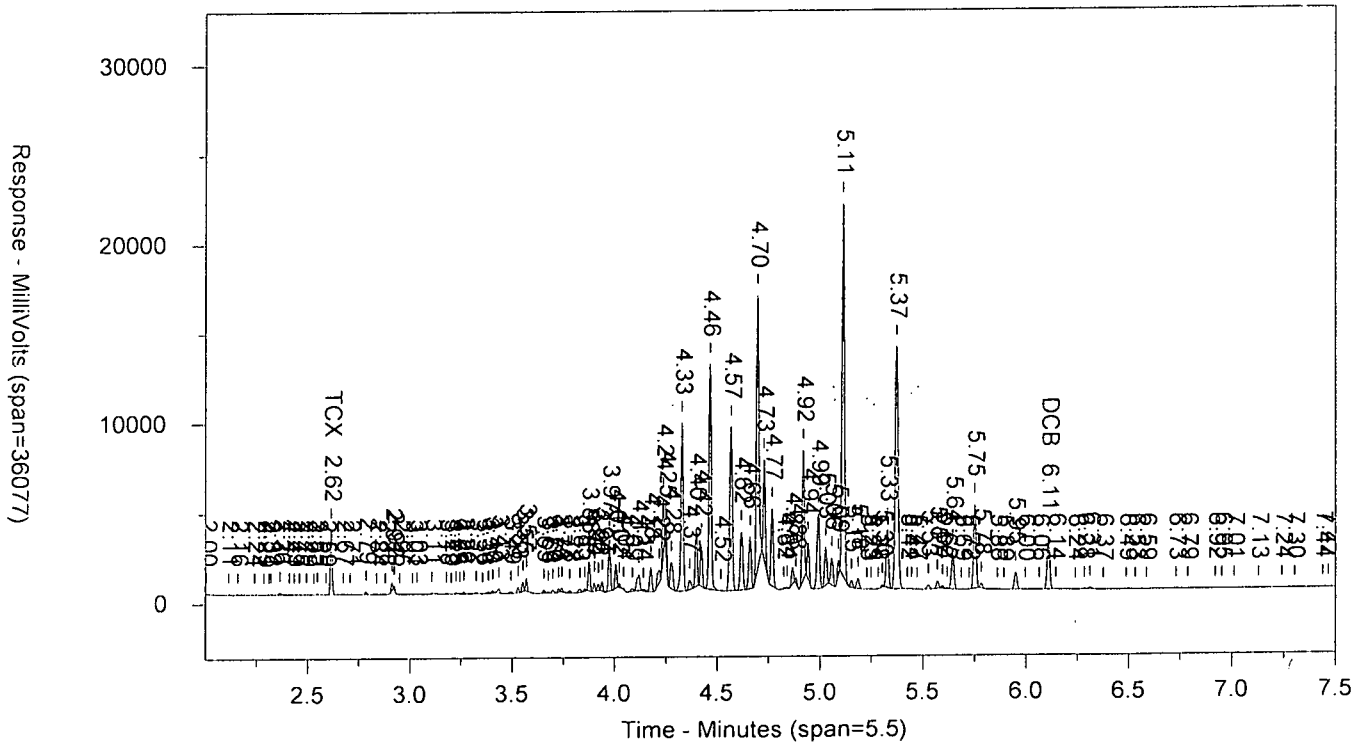

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Data Summary

Sample Name: 8998253 RI ACF 42A18 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.2 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 19:51:36
Instrument	17342A
Result file	20PCBS17137004.033.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 101% (61 - 152) Conc: 29.04655
%SSR(DCB) 93% (48 - 164) Conc: 26.55931

Analysis Report (B)

Injected on	May 21, 2017 19:51:36
Instrument	17342B
Result file	20PCBS17137004B.033.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 99% (61 - 152) Conc: 28.37905
%SSR(DCB) 69% (48 - 164) Conc: 19.71349

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3366882	29.04655
Decachlorobiphenyl	6.58	6.61	6.64	1864270	26.55931

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20011060	28.37905
Decachlorobiphenyl	6.08	6.11	6.14	9796071	19.71349

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	29.04655				2.32	
☑ Decachlorobiphenyl	A	26.55931				29.59	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**12.79**	
4.73	4.75	4.77	1183796	276.928708			1
5.03	5.05	5.07	949747.1	402.101872			2
5.20	5.23	5.24	889943.5	321.785448			3
5.37	5.39	5.41	1117767	354.216812			4
5.61	5.63	5.65	2912736	380.775103			5
5.82	5.84	5.86	1565405	364.285014			6

Height summation: **8619394.6**
Concentration CF: **350.015493** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**11.52**	
4.31	4.33	4.35	6756538	234.614992			1
4.44	4.46	4.48	9106038	268.132855			2
4.55	4.57	4.59	6439904	235.688072			3
4.90	4.92	4.94	5169856	246.145952			4
5.09	5.11	5.13	14655650	307.475486			5
5.35	5.37	5.39	9277808	290.97304			6

Height summation: **51405794**
Concentration CF: **263.8384** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<50	<9.7059			4	
☑ PCB-1221			<50	<15			3	
☑ PCB-1232			<50	<12.0588			4	
☑ PCB-1242			<50	<12.0588			4	
☑ PCB-1248			<50	<9.7059			4	
☑ PCB-1254			<50	<12.9412			4	
☑ PCB-1260	A	350.015493	50	11.4706		28.08	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998253** RI ACF 42A18 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.2 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342A
Result file : 20PCBS17137004.033.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 101% (61-152) Conc.: 29.04655
%SSR(DCB) : 93% (48-164) Conc.: 26.55931

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**193.04**	
3.16	3.18	3.20	5763.638	2.753886			1
3.37	3.41	3.41	37123.17	17.370778			2
3.49	3.50	3.53	609790	253.442104			3
3.71	3.73	3.75	22614.7	8.48353			4
3.76	3.79	3.80	6992.88	3.207222			5
3.96	3.98	4.00	40833.39	23.35664			6
Height Summation:			**723117.778**				
Amount Avg CF:			**51.435693**	Linear:			
Aroclor-1221					**3**	**170.65**	
E 3.06	3.08	3.10	946718.9	944.28556			1
3.11	3.12	3.15	6354.352	7.331324			2
+ 3.11	3.14	3.15	4682.871	5.402855			2
3.16	3.18	3.20	5763.638	2.058401			3
Height Summation:			**958836.89**				
Amount Avg CF:			**317.891762**	Linear:			
Aroclor-1232					**6**	**192.66**	
3.16	3.18	3.20	5763.638	2.294738			1
3.38	3.41	3.42	37123.17	36.731451			2
E 3.49	3.50	3.53	609790	549.881778			3
3.71	3.73	3.75	22614.7	18.798825			4
3.77	3.79	3.81	6992.88	7.414594			5
3.96	3.98	4.00	40833.39	56.008974			6
Height Summation:			**723117.778**				
Amount Avg CF:			**111.85506**	Linear:			
Aroclor-1242					**6**	**193.41**	
3.16	3.18	3.20	5763.638	3.214601			1
3.38	3.41	3.42	37123.17	20.967611			2
E 3.49	3.50	3.53	609790	314.537379			3
3.71	3.73	3.75	22614.7	10.369324			4
3.77	3.79	3.81	6992.88	4.095268			5
3.96	3.98	4.00	40833.39	29.252148			6
Height Summation:			**723117.778**				
Amount Avg CF:			**63.739389**	Linear:			
Aroclor-1248					**6**	**181.95**	
3.76	3.79	3.80	6992.88	5.907214			1
3.83	3.85	3.87	31903.19	14.819201			2
3.96	3.98	4.00	40833.39	16.105566			3
4.05	4.06	4.09	25530.94	12.113595			4
4.23	4.23	4.27	153840.4	61.61694			5
+ 4.23	4.25	4.27	43039.75	17.2385			5
4.61	4.63	4.65	718756.4	392.712881			6
Height Summation:			**977857.2**				
Amount Avg CF:			**83.879233**	Linear:			
Aroclor-1254					**6**	**108.47**	
4.21	4.23	4.25	153840.4	52.260473			1
4.55	4.57	4.59	63099.54	21.329227			2
+ 4.55	4.59	4.59	56506.58	19.100641			2
4.61	4.63	4.65	718756.4	120.294464			3
4.73	4.75	4.77	1183796	660.073749			4
4.83	4.85	4.87	499194.3	126.426122			5
5.14	5.16	5.18	2282708	562.795046			6
Height Summation:			**4901394.64**				
Amount Avg CF:			**257.196514**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342B
Result file : 20PCBS17137004B.033.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 99% (61-152) Conc.: 28.37905
%SSR(DCB) : 69% (48-164) Conc.: 19.71349

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**66.45**	
+ 2.88	2.88	2.92	40145.95	3.480729			1
2.88	2.91	2.92	378570.6	32.822783			1
+ 3.21	3.23	3.25	20079.69	1.400929			2
3.21	3.24	3.25	58877.05	4.10776			2
3.40	3.41	3.44	255819.9	17.762354			3
+ 3.40	3.44	3.44	63732.62	4.42515			3
3.47	3.48	3.51	746310.5	43.817711			4
+ 3.47	3.50	3.51	219093.3	12.863502			4
3.63	3.64	3.67	310857.8	21.722864			5
+ 3.63	3.65	3.67	79363.77	5.545971			5
3.72	3.72	3.76	133590.8	10.89439			6
+ 3.72	3.74	3.76	98620.8	8.042571			6
Height Summation:			**1884026.65**				
Amount Avg CF:			**21.854644**	Linear:			
Aroclor-1221					**3**	**56.58**	
2.77	2.79	2.81	106546.9	17.504304			1
2.83	2.85	2.87	23758.95	6.331957			2
+ 2.88	2.88	2.92	40145.95	2.579159			3
2.88	2.91	2.92	378570.6	24.3211			3
Height Summation:			**508876.45**				
Amount Avg CF:			**16.052454**	Linear:			
Aroclor-1232					**6**	**82.02**	
+ 2.88	2.88	2.92	40145.95	2.849061			1
2.88	2.91	2.92	378570.6	26.866244			1
+ 3.21	3.23	3.25	20079.69	2.948465			2
3.21	3.24	3.25	58877.05	8.645398			2
3.40	3.41	3.44	255819.9	41.987095			3
+ 3.40	3.44	3.44	63732.62	10.460279			3
3.47	3.48	3.51	746310.5	99.700912			4
+ 3.47	3.50	3.51	219093.3	29.269053			4
+ 3.66	3.68	3.70	32671	15.981814			5
3.66	3.70	3.70	81792.37	40.010727			5
3.73	3.74	3.77	98620.8	18.40091			6
Height Summation:			**1619991.22**				
Amount Avg CF:			**39.268548**	Linear:			
Aroclor-1242					**6**	**70.71**	
+ 2.88	2.88	2.92	40145.95	4.048149			1
2.88	2.91	2.92	378570.6	38.173468			1
+ 3.21	3.23	3.25	20079.69	1.695386			2
3.21	3.24	3.25	58877.05	4.971158			2
3.40	3.41	3.44	255819.9	21.964633			3
+ 3.40	3.44	3.44	63732.62	5.472067			3
3.47	3.48	3.51	746310.5	56.065632			4
+ 3.47	3.50	3.51	219093.3	16.459107			4
3.64	3.64	3.68	310857.8	28.36325			5
+ 3.64	3.65	3.68	79363.77	7.241299			5
3.73	3.74	3.77	98620.8	10.045873			6
Height Summation:			**1849056.65**				
Amount Avg CF:			**26.597336**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998253** RI ACF 42A18 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.2 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342A
Result file : 20PCBS17137004.033.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	12.79	
4.73	4.75	4.77	1183796	276.928708			1
5.03	5.05	5.07	949747.1	402.101872			2
5.20	5.23	5.24	889943.5	321.785448			3
5.37	5.39	5.41	1117767	354.216812			4
5.61	5.63	5.65	2912736	380.775103			5
5.82	5.84	5.86	1565405	364.285014			6
Height Summation:			**8619394.6**				
Amount Avg CF:			**350.015493**	Linear:			
Aroclor-1262					6	42.88	
5.21	5.23	5.24	889943.5	174.771676			1
E 5.37	5.39	5.41	1117767	271.72228			2
E 5.61	5.63	5.65	2912736	292.95599			3
E 5.81	5.84	5.85	1565405	284.891972			4
5.87	5.87	5.91	155378.7	57.082485			5
+ 5.87	5.89	5.91	99941.77	36.716259			5
6.25	6.26	6.29	629832.2	190.192517			6
Height Summation:			**7271062.4**				
Amount Avg CF:			**211.936153**	Linear:			
Aroclor-1268					6	122.06	
5.81	5.84	5.85	1565405	128.117621			1
5.87	5.87	5.91	155378.7	14.574746			2
+ 5.87	5.89	5.91	99941.77	9.374682			2
6.00	6.02	6.04	49819.13	5.011577			3
6.07	6.08	6.11	57035.72	25.026256			4
6.25	6.26	6.29	629832.2	153.391526			5
6.45	6.46	6.49	143426.7	4.463562			6
Height Summation:			**2600897.45**				
Amount Avg CF:			**55.097548**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342B
Result file : 20PCBS17137004B.033.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	207.34	
3.40	3.41	3.44	255819.9	45.036339			1
+ 3.40	3.44	3.44	63732.62	11.21994			1
3.51	3.53	3.55	182725.2	11.405511			2
3.63	3.64	3.67	310857.8	15.5306			3
+ 3.63	3.65	3.67	79363.77	3.965051			3
3.72	3.72	3.76	133590.8	9.243296			4
+ 3.72	3.74	3.76	98620.8	6.823682			4
3.86	3.87	3.90	1200322	43.847756			5
+ 4.22	4.24	4.26	1799172	148.649565			6
4.22	4.25	4.26	10242580	846.253202			6
Height Summation:			**12325895.7**				
Amount Avg CF:			**161.886117**	Linear:			
Aroclor-1254					6	86.52	
4.16	4.18	4.19	863591.1	40.498882			1
+ 4.22	4.24	4.26	1799172	47.551899			2
4.22	4.25	4.26	10242580	270.710155			2
4.31	4.33	4.35	6756538	383.876738			3
4.38	4.40	4.42	2224983	87.478482			4
4.44	4.46	4.48	9106038	621.69973			5
4.60	4.62	4.64	2204595	123.548349			6
Height Summation:			**31398325.1**				
Amount Avg CF:			**254.635389**	Linear:			
Aroclor-1260					6	11.52	
4.31	4.33	4.35	6756538	234.614992			1
4.44	4.46	4.48	9106038	268.132855			2
4.55	4.57	4.59	6439904	235.688072			3
4.90	4.92	4.94	5169856	246.145952			4
5.09	5.11	5.13	14655650	307.475486			5
5.35	5.37	5.39	9277808	290.97304			6
Height Summation:			**51405794**				
Amount Avg CF:			**263.8384**	Linear:			
Aroclor-1262					6	36.26	
4.71	4.73	4.75	3757901	113.666643			1
4.90	4.92	4.94	5169856	157.200283			2
E 5.09	5.11	5.13	14655650	234.287065			3
5.31	5.32	5.35	2279257	87.93196			4
E 5.35	5.37	5.39	9277808	222.372094			5
5.73	5.75	5.77	3323122	147.173777			6
Height Summation:			**38463594**				
Amount Avg CF:			**160.438637**	Linear:			
Aroclor-1268					6	116.57	
5.31	5.32	5.35	2279257	26.999416			1
5.35	5.37	5.39	9277808	108.549867			2
5.51	5.52	5.55	290109.1	3.950888			3
5.57	5.59	5.61	213011.4	11.998375			4
5.73	5.75	5.77	3323122	115.507077			5
5.93	5.95	5.97	789715.6	3.611716			6
Height Summation:			**16173023.1**				
Amount Avg CF:			**45.10289**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50	9.7059		** 80.72	4	40	
Aroclor-1221			50	15	E	** 180.77	3	5	
Aroclor-1232			50	12.0588	E	** 96.06	4	10	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998253** RI ACF 42A18 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.2 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342A
Result file : 20PCBS17137004.033.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 19:51:36
Instrument : CP20--17342B
Result file : 20PCBS17137004B.033.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1242			50	12.0588	E	** 82.23	4	30	
Aroclor-1248			50	9.7059		** 63.48	4	40	
Aroclor-1254			50	12.9412		1.00	4	40	
Aroclor-1260			50	11.4706		28.08	4	40	
Aroclor-1262			50	9.7059	E	27.66	4	40	
Aroclor-1268			50	9.7059		19.95	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998253 RI ACF AB42A18 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:51:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.033.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.006		5506	2665
2.038		5708	5293
2.102		9327	11051
2.13		81405	52088
2.198		31373	19958
2.218		7466	3987
2.238		13672	8015
2.269		5810	5162
2.31		44674	28117
2.329		3036	1359
2.372		4489	2806
2.422		11710	7757
2.538		7983	5095
2.567		4071	3716
2.627		8684	5400
2.648		17113	9962
2.695		14025	8826
2.718		2143	1062
2.783		1242	630
2.8		1241	600
2.826		10183	7657
2.869		2844	2202
2.925	TCX	3366882	2172596
2.988		28419	21950
3.037		15157	9655
3.085		946719	659504
3.124		6354	3272
3.138		4683	2253
3.18		5764	6255
3.23		47708	24873
3.243		64254	30750
3.259		13937	6275
3.312		1631	1196
3.349		453110	318448
3.372		4460	2763
3.411		37123	29445
3.466		1537	803
3.503		609790	443946
3.556		1965	1598
3.586		14729	8414
3.605		39002	24849
3.652		11211	8596
3.671		5977	3634
3.695		7875	6689
3.732		22615	17774
3.759		121235	85929
3.785		6993	5509
3.817		30776	26760
3.854		31903	21569
3.885		48613	51890
3.919		85639	59776
3.955		866	443
3.976		40833	30842
4.032		9942	6696

RT A	Compound A	Height A	Area A
4.06		25531	33554
4.109		6592	4908
4.135		42990	38957
4.188		11397	8210
4.226		153840	118177
4.246		43040	24021
4.271		79148	62709
4.337		72690	63250
4.38		344277	337031
4.414		147501	120493
4.453		24714	18383
4.478		16933	11929
4.518		159589	155308
4.572		63100	44550
4.586		56507	29938
4.601		35996	22001
4.633		718756	614617
4.678		424600	503126
4.717		143656	100932
4.754		1183796	1110976
4.805		30482	24433
4.846		499194	764430
4.876		15189	8182
4.906		1557266	1550609
4.954		1670015	2060527
5.004		240146	215883
5.048		949747	976827
5.09		59412	42096
5.127		169278	213650
5.163		2282708	2117422
5.186		77111	32134
5.226		889944	773734
5.268		578536	580810
5.322		7770	6253
5.39		1117767	1554677
5.449		507073	465736
5.488		298027	266379
5.529		58990	55601
5.574		376612	337495
5.601		23781	13370
5.63		2912736	2880341
5.715		6476	6190
5.751		3158	2035
5.774		2356	1421
5.798		1654	1117
5.837		1565405	1603007
5.875		155379	152870
5.888		99942	77676
5.938		2915	2715
5.988		3978	2832
6.021		49819	60531
6.085		57036	42821
6.108		240418	212058
6.229		1066	669
6.265		629832	613204
6.31		45108	41580
6.375		2896	4934
6.464		143427	153876
6.609	DCB	1864270	1951495
6.688		7519	6655
6.836		977	1157
6.892		1018	1989
6.921		1043	1387
7.003		883	978
7.048		1392	1538
7.163		1728	3061

RT A	Compound A	Height A	Area A
7.222		130996	195291
7.569		855	9184
7.598		673	378
7.639		785	826
7.724		2827	6043
7.787		1207	1724
7.866		775	1577
7.953		1124	2949
8.024		39617	64933
8.192		880	635
8.482		797	1994

LANCASTER LABORATORIES

Sample Number: 8998253 RI ACF AB42A18 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:51:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.033.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		21248	14496
2.034		6512	3684
2.055		28802	20029
2.097		68419	36425
2.114		25781	14105
2.144		3123	909
2.16		64624	41008
2.183		13355	7115
2.213		84473	54912
2.24		6092	5355
2.284		4746	3943
2.312		10950	5114
2.322		19805	8604
2.366		231868	172436
2.398		19235	13255
2.435		10799	5813
2.462		3876	3668
2.479		49797	34481
2.514		18689	11141
2.538		9273	10503
2.57		6833	3235
2.592		22088	12754
2.617	TCX	20011060	11556810
2.661		148340	82855
2.709		6601751	3865073
2.737		50983	27530
2.754		46613	24097
2.786		106547	65435
2.812		16816	19258
2.846		23759	26286
2.883		40146	32604
2.912		378571	172641
2.922		206287	74777
2.955		3114934	1878467
3.031		21989	17154
3.06		220287	134121
3.104		4634646	2752193
3.156		30815	19205
3.193		374616	428211
3.228		20080	10144
3.245		58877	29612
3.265		69932	40290
3.301		72539	58983
3.321		13225	4430
3.339		1227829	725427
3.375		6520	3143
3.385		30126	12973
3.407		255820	168631
3.436		63733	55541
3.483		746311	472738
3.505		219093	118241
3.527		182725	103127
3.551		246942	137841
3.568		122795	60344

RT B	Compound B	Height B	Area B
3.586		33259	22535
3.613		5339	2708
3.635		310858	185233
3.653		79364	50296
3.676		32671	16042
3.697		81792	59805
3.725		133591	74231
3.742		98621	54189
3.778		58584	48420
3.829		90950	93534
3.853		80629	48829
3.875		1200322	798048
3.899		275077	163778
3.92		183905	98927
3.938		382583	234116
3.973		1783926	1238421
4.005		891358	567017
4.023		141756	67840
4.043		35276	18831
4.085		86011	68620
4.118		607322	586175
4.147		77436	68001
4.175		863591	660256
4.216		490084	519000
4.237		1799172	1034041
4.251		10242580	6243950
4.273		659438	555909
4.327		6756539	5239778
4.365		335520	308979
4.396		2224983	1477459
4.42		1643168	1131053
4.463		9106038	7025794
4.517		19224	13154
4.565		6439905	5973214
4.616		2204595	1870931
4.657		2101527	1732557
4.694		11586350	9263501
4.727		3757901	2598629
4.764		3007454	2309443
4.808		6787	3968
4.836		157070	140856
4.864		615727	428286
4.88		191956	112443
4.915		5169856	3901214
4.939		1517672	992264
4.989		2857728	2530232
5.025		1467169	1176404
5.055		1050471	855135
5.086		588012	338338
5.109		14655650	11986970
5.15		275794	197964
5.182		457015	397578
5.226		12164	7806
5.246		27825	18293
5.282		11739	8696
5.301		111350	67128
5.325		2279257	1824196
5.368		9277808	9685135
5.422		3160	1585
5.442		31248	22423
5.525		290109	245314
5.569		283977	215084
5.594		213011	149330
5.614		9989	4146
5.642		1448926	1209392
5.685		7820	5489

RT B	Compound B	Height B	Area B
5.704		12689	8747
5.749		3323122	2736018
5.781		201209	153590
5.855		12767	14921
5.89		3767	2111
5.912		5530	4050
5.948		789716	686147
6.052		6460	9007
6.107	DCB	9796071	8678879
6.283		36718	29078
6.309		176553	142524
6.382		6746	6939
6.407		7349	8449
6.451		5973	6677
6.529		1110460	1147603
6.581		5670	3884
6.641		3687	2230
6.685		2214	1330
6.728		5788	9431
6.784		35634	39714
6.837		4215	6788
6.877		3003	4519
6.936		538	6532
6.948		3152	2053
7.01		8933	8516
7.059		2903	3652
7.123		4029	5063
7.189		1771	542
7.253		3601	6332
7.307		3869	7660
7.436		2220	6607
7.462		6926	8689
7.553		204334	251559
7.593		2365	3486
7.722		1943	5191
7.757		3299	2270
7.786		1640	1217
7.85		1657	2814
7.975		3776	14791
8.107		8120	19078
8.214		18451	31555
8.356		2322	3583
8.422		11312	20557
8.58		3197	6850
8.618		4131	6121

8998253 RI ACF AB42A18 T 171380028A 10225 SW-846 8082

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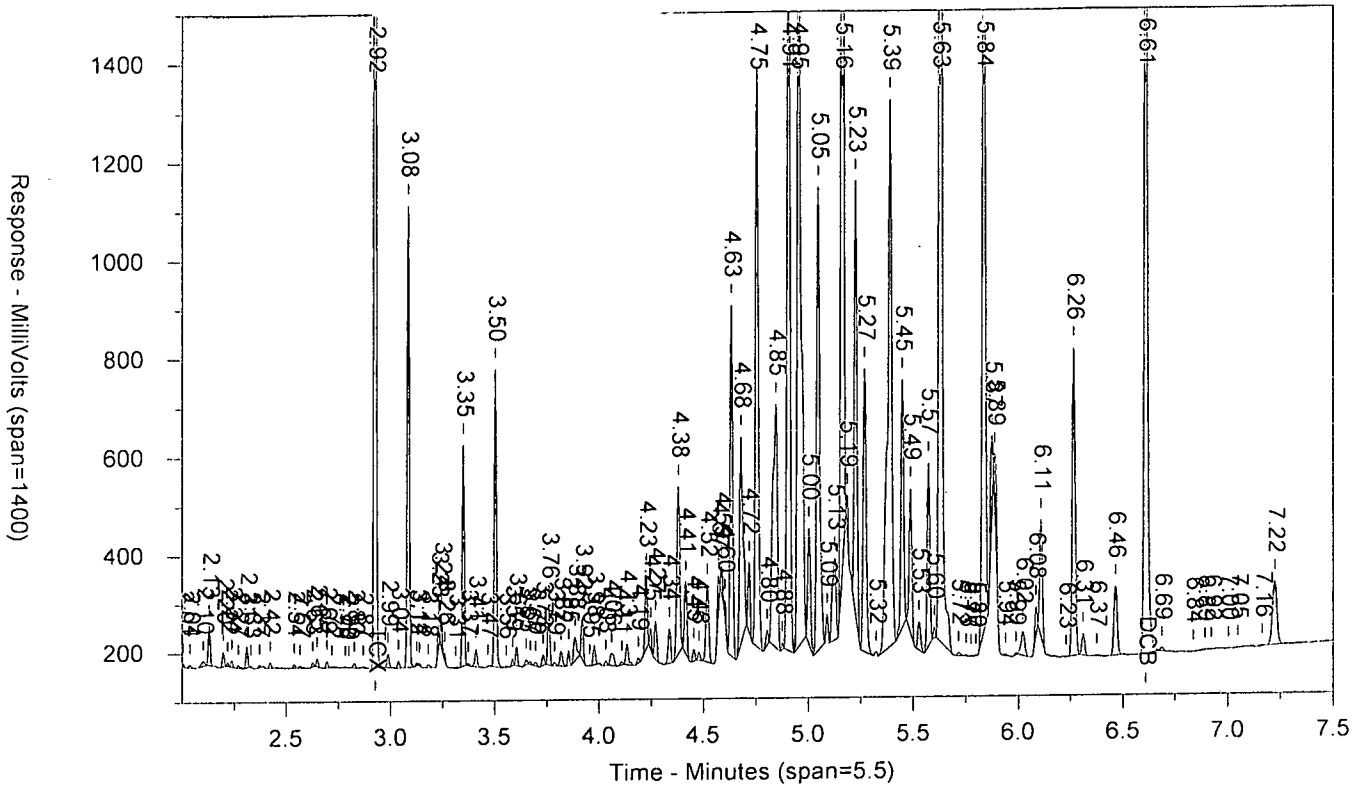

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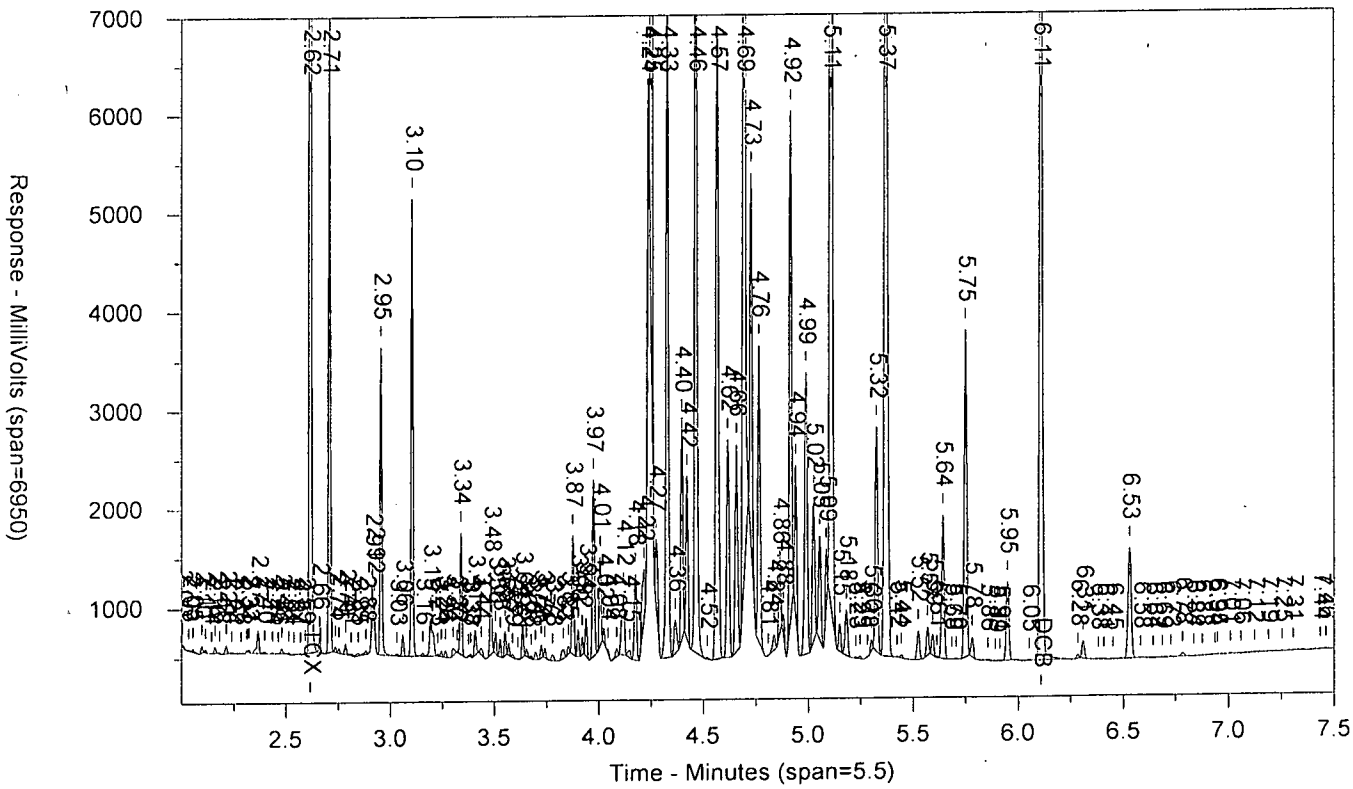

LANCASTER LABORATORIES

Sample Number: 8998253 RI ACF AB42A18 T 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 7:51:36 PM Sample Weight: 10.2
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3366882	29.047	TCX	2.617	20011060	28.379	TCX
6.609	1864270	26.559	DCB	6.107	9796071	19.713	DCB

Files:
Area File: 20pcbs17137004.033.RAW
Area File: 20pcbs17137004B.033.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 8:00:20 PM
File Reported On: 5/21/2017 at 8:00:27 PM

8998253 RI ACF AB42A18 T 171380028A 10225 SW-846 8082

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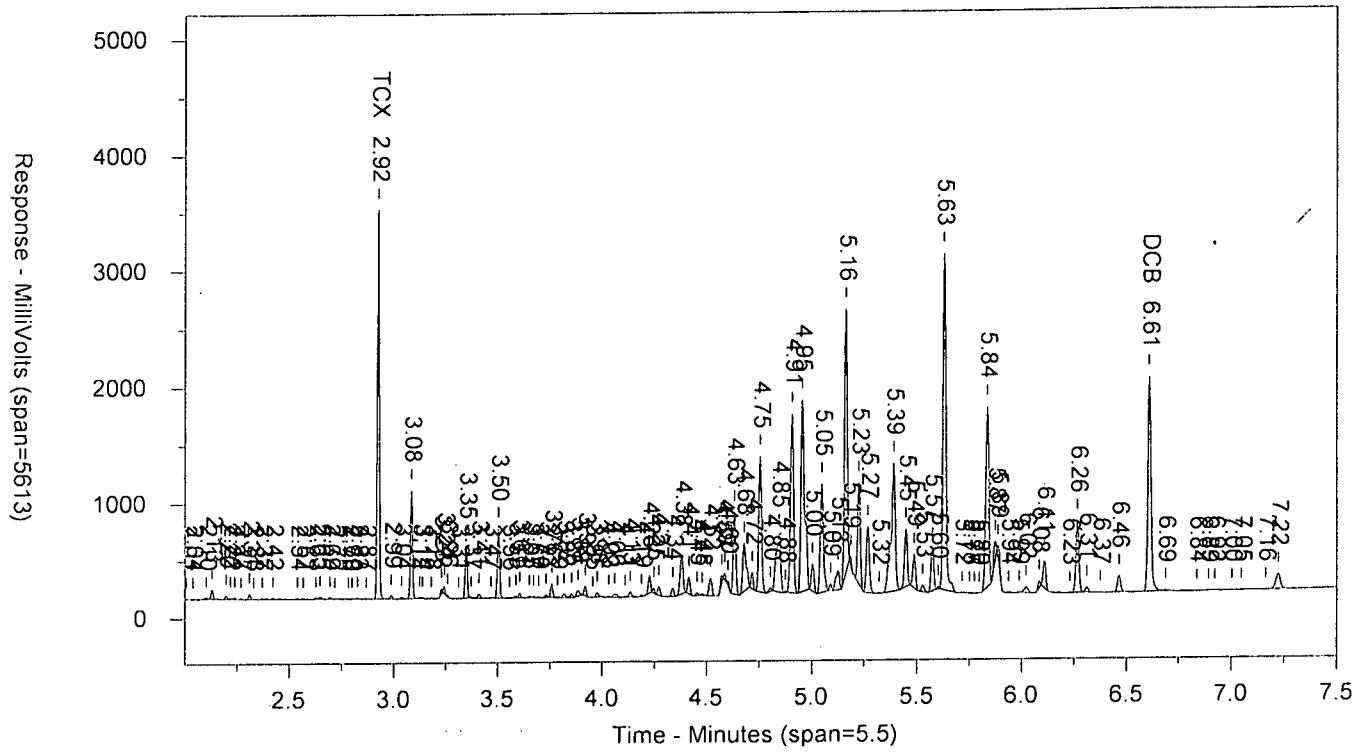

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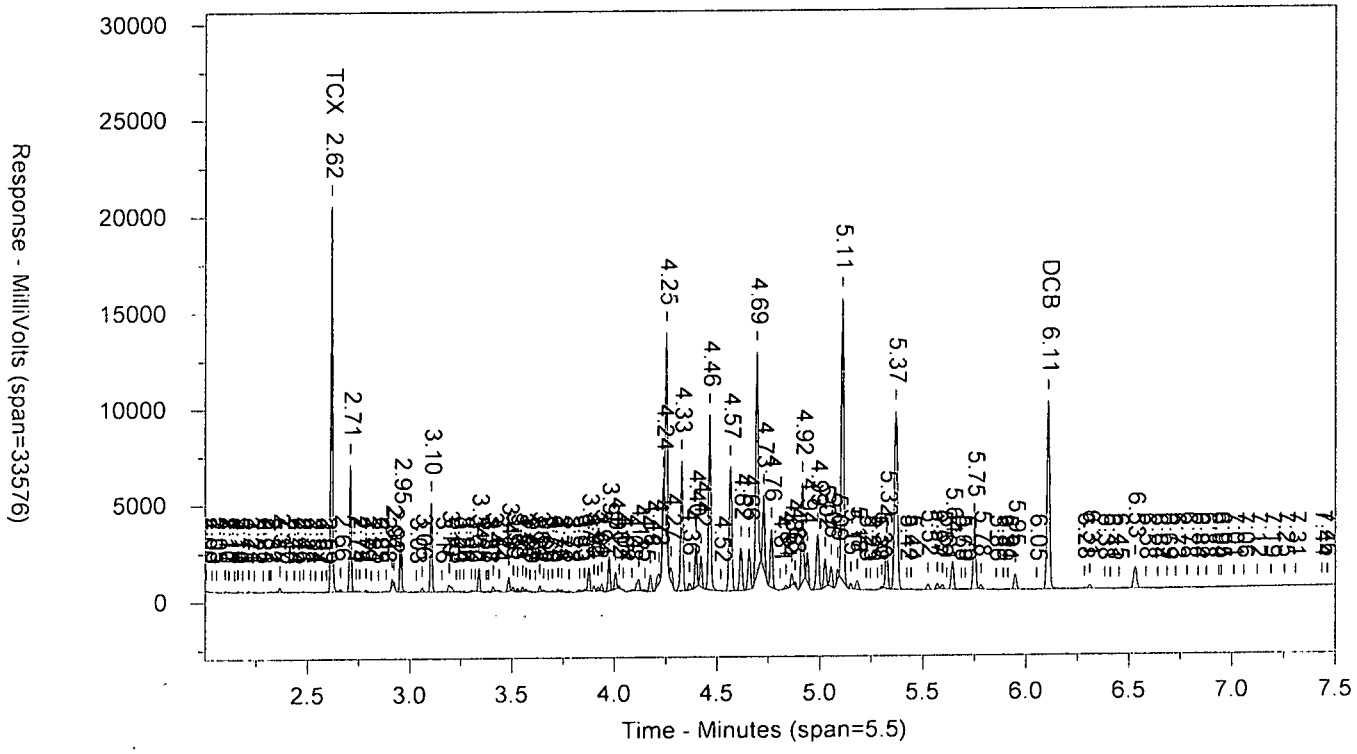

Standards Data

Polychlorinated Biphenyls (PCBs)

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137001.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 35

	Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
2	CONDITIONER	2	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
3	CONDITIONER	3	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
4	CONDITIONER	4	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
5	IBLKX1724A	5	PIBLK	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1713699999	10736
6	EVALX1624B	6	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
7	AR1611724A	7	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	1	1713699999	10736
8	AR1621724A	8	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	2	1713699999	10736
9	AR1631724A	9	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	3	1713699999	10736
10	AR1641724A	10	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	4	1713699999	10736
11	AR1651724A	11	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	5	1713699999	10736
12	AR4811724A	12	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
13	AR4821724A	13	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
14	AR4831724A	14	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
15	AR4841724A	15	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
16	AR4851724A	16	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
17	AR5411724A	17	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
18	AR5421724A	18	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
19	AR5431724A	19	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
20	AR5441724A	20	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
21	AR5451724A	21	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
22	AR6231724A	22	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
23	AR6831724A	23	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
24	AR2131724A	24	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
25	AR3231724A	25	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
26	AR4231724A	26	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
27	AR16XX1724A	27	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
28	MD16X1724A	28	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
29	IC16X1724A	29	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
30	IC48X1724A	30	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
31	IC54X1724A	31	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
32	BLANKA 5/16/17 RI A	32	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171350035A	
33	LOD 5/16/17 RI A	33	CRDL	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171350035A	
34	AR1631724A	34	CCAL	BR	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
35	IBLKX1724A	35	PIBLK	UF	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1713699999	10736

2324 5/17/17

Set-up by: 2855 Date: 17May17

5/17/2017

Eurofins Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137004.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 66

	Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	
2	CONDITIONER	2	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	
3	CONDITIONER	3	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	
4	CONDITIONER	4	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	
5	AR1631724A	5	CCAL	CQ	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	10736
6	IBLKX1724A	6	PIBLK	VK	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714099999	10736
7	BLANKA 5/19/17 ACF	7	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171380028A	10225
8	LCSA 5/19/17 ACF	8	LCS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171380028A	10225
9	8998234 RI ACF	9	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	10	1	0	171380028A	10225
10	8998235MSACF	10	MS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.17	10	1	0	171380028A	10225
11	8998236MSDACF	11	MSD	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.46	10	1	0	171380028A	10225
12	8998237 RI ACF	12	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.11	10	1	0	171380028A	10225
13	8998238ACF DF5	13	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.43	50	1	0	171380028A	10225
14	8998239 RI ACF	14	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.11	10	1	0	171380028A	10225
15	8998240ACF DF5	15	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.49	50	1	0	171380028A	10225
16	8998241ACF DF5	16	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.45	50	1	0	171380028A	10225
17	8998242 RI ACF	17	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	10	1	0	171380028A	10225
18	8998243 RI ACF	18	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.43	10	1	0	171380028A	10225
19	8998244 RI ACF	19	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.14	10	1	0	171380028A	10225
20	8998245ACF DF200	20	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	2000	1	0	171380028A	10225
21	8998245ACF DF500	21	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	5000	1	0	171380028A	10225
22	8998246ACF DF50	22	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	500	1	0	171380028A	10225
23	8998246ACF DF100	23	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	1000	1	0	171380028A	10225
24	8998247 RI ACF	24	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.26	10	1	0	171380028A	10225
25	8998247ACF DF5	25	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.26	50	1	0	171380028A	10225
26	8998248 RI ACF	26	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.35	10	1	0	171380028A	10225
27	AR1631724A	27	CCAL	CR	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	10736
28	IBLKX1724A	28	PIBLK	VL	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714099999	10736
29	8998249ACF DF10	29	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.32	100	1	0	171380028A	10225
30	8998250ACF DF5	30	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.39	50	1	0	171380028A	10225
31	8998251ACF DF5	31	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.43	50	1	0	171380028A	10225
32	8998252ACF DF5	32	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	50	1	0	171380028A	10225
33	8998253 RI ACF	33	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.2	10	1	0	171380028A	10225
34	8998253ACF DF5	34	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.2	50	1	0	171380028A	10225
35	BLANKA 5/19/17 ACF	35	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171380029A	10225
36	LCSA 5/19/17 ACF	36	LCS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171380029A	10225
37	8998254ACF DF5	37	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.13	50	1	0	171380029A	10225
38	8998255ACF DF5	38	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.02	50	1	0	171380029A	10225
39	8998256 RI ACF	39	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.4	10	1	0	171380029A	10225
40	8998256ACF DF5	40	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.4	50	1	0	171380029A	10225
41	8998257ACF DF5	41	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.21	50	1	0	171380029A	10225
42	8998258 RI ACF	42	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.19	10	1	0	171380029A	10225
43	8998259ACF DF5	43	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.16	50	1	0	171380029A	10225
44	8998260ACF DF10	44	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.15	100	1	0	171380029A	10225
45	8998261MSACF DF10	45	MS	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.15	100	1	0	171380029A	10225
46	8998262MSDACF DF10	46	MSD	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.36	100	1	0	171380029A	10225
47	8998263ACF DF50	47	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	500	1	0	171380029A	10225
48	8998264ACF DF5	48	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	50	1	0	171380029A	10225
49	AR1631724A	49	CCAL	CS	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	10736
50	IBLKX1724A	50	PIBLK	VM	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714099999	10736

Eurofins Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137004.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 66

Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51 8998265ACF DF5	51	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.47	50	1	0	171380029A	10225
52 8998266ACF DF5	52	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.02	50	1	0	171380029A	10225
53 8998267ACF DF5	53	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.49	50	1	0	171380029A	10225
54 8998268 RI ACF	54	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.01	10	1	0	171380029A	10225
55 8998269ACF DF5	55	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	50	1	0	171380029A	10225
56 8998270 RI ACF	56	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.09	10	1	0	171380029A	10225
57 8998270ACF DF5	57	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.09	50	1	0	171380029A	10225
58 8998271ACF DF200	58	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	2000	1	0	171380029A	10225
59 8998271ACF DF500	59	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	5000	1	0	171380029A	10225
60 8998272ACF DF200	60	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.42	2000	1	0	171380029A	10225
61 8998272ACF DF500	61	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.42	5000	1	0	171380029A	10225
62 8998273ACF DF5	62	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.22	50	1	0	171380029A	10225
63 8998274ACF DF10	63	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.28	100	1	0	171380029A	10225
64 8998275ACF DF20	64	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.31	200	1	0	171380029A	10225
65 AR1631724A	65	CCAL	CT	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714099999	10736
66 IBLKX1724A	66	PIBLK	VN	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714099999	10736

5/22/17

Kelly B. Turner
Associate Chemist

Set-up by: _____ Date: _____

5/22/2017

MAY 22 2017

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.005.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.097		10351	22973
2.217		8093	6890
2.309		13352	8911
2.328		2253	1169
2.377		1896	2134
2.424		3596	3683
2.549		2766	1942
2.657		1328	1140
2.723		1183	1422
2.774		48669	42841
2.827		4138	4233
2.923	TCX	2190175	1480446
3.072		1059	969
3.123		30032	19010
3.191		4185	3519
3.231		727	551
3.254		5553	3721
3.311		938	755
3.463		814	619
3.493		1861	1317
3.53		2841	2665
3.569		7805	5002
3.667		4415	3781
3.731		834	438
3.849		2370	2762
4.005		821	547
4.171		2303	1804
4.297		7604	6578
4.402		1054	2152
4.511		2441	3244
4.854		1545	1437
4.88		2806	2102
4.926		1745	1771
5.12		6653	7437
5.205		2502	3138
5.53		7474	8218
5.651		11893	11207
5.837		2172	2660
6.022		18081	17483
6.088		15325	12996
6.109		2421	1469
6.303		1330	2858
6.332		1396	1510
6.396		997	838
6.468		15878	15449
6.614	DCB	1571934	1568764
6.922		829	3156
7.077		1207	2188
7.385		4370	68581
8.378		792	1028
8.535		912	1865

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.005.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		5070	4170
2.053		19278	13618
2.156		10892	10102
2.24		19388	33245
2.349		3646	3408
2.411		13901	15674
2.448		3701	2407
2.477		6150	4560
2.525		8148	7097
2.547		139202	113578
2.592		4151	1944
2.615	TCX	13497890	8027551
2.779		8147	4855
2.802		4403	2868
2.833		181836	119070
2.883		7990	10144
2.949		35183	21591
2.998		4527	5089
3.087		3300	2581
3.182		16069	22543
3.256		1660	1014
3.269		4290	1899
3.292		61578	36197
3.326		38423	23874
3.356		2460	1377
3.409		11202	8310
3.451		10604	16850
3.491		4157	5511
3.529		2070	976
3.545		2462	1195
3.565		3941	2435
3.586		2824	1392
3.61		3424	3595
3.732		7963	26313
3.775		4428	3242
3.816		2233	1362
3.936		7570	5112
3.986		5570	13287
4.076		55213	47971
4.113		3083	2223
4.154		3626	2347
4.2		8866	10595
4.247		7205	14970
4.332		1798	1706
4.374		3083	4081
4.442		24374	18026
4.532		3112	5459
4.583		10186	10153
4.645		5081	2800
4.67		39069	28721
4.842		6441	15553
4.983		3162	3561
5.064		39557	42741
5.186		74021	77324

RT B	Compound B	Height B	Area B
5.371		4696	4287
5.47		1912	1241
5.528		122755	103512
5.596		123852	115541
5.645		36634	35689
5.95		103800	86911
5.979		3273	2211
6.066		2313	2369
6.11	DCB	10753940	9517686
6.517		1882	1909
6.562		9523	11580
6.906		2483	3718
7.088		1776	1009
7.148		2335	1617
7.336		908	3362
7.443		3060	8497
7.483		1997	2090
8.152		1882	3962
8.222		16479	32043

IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082

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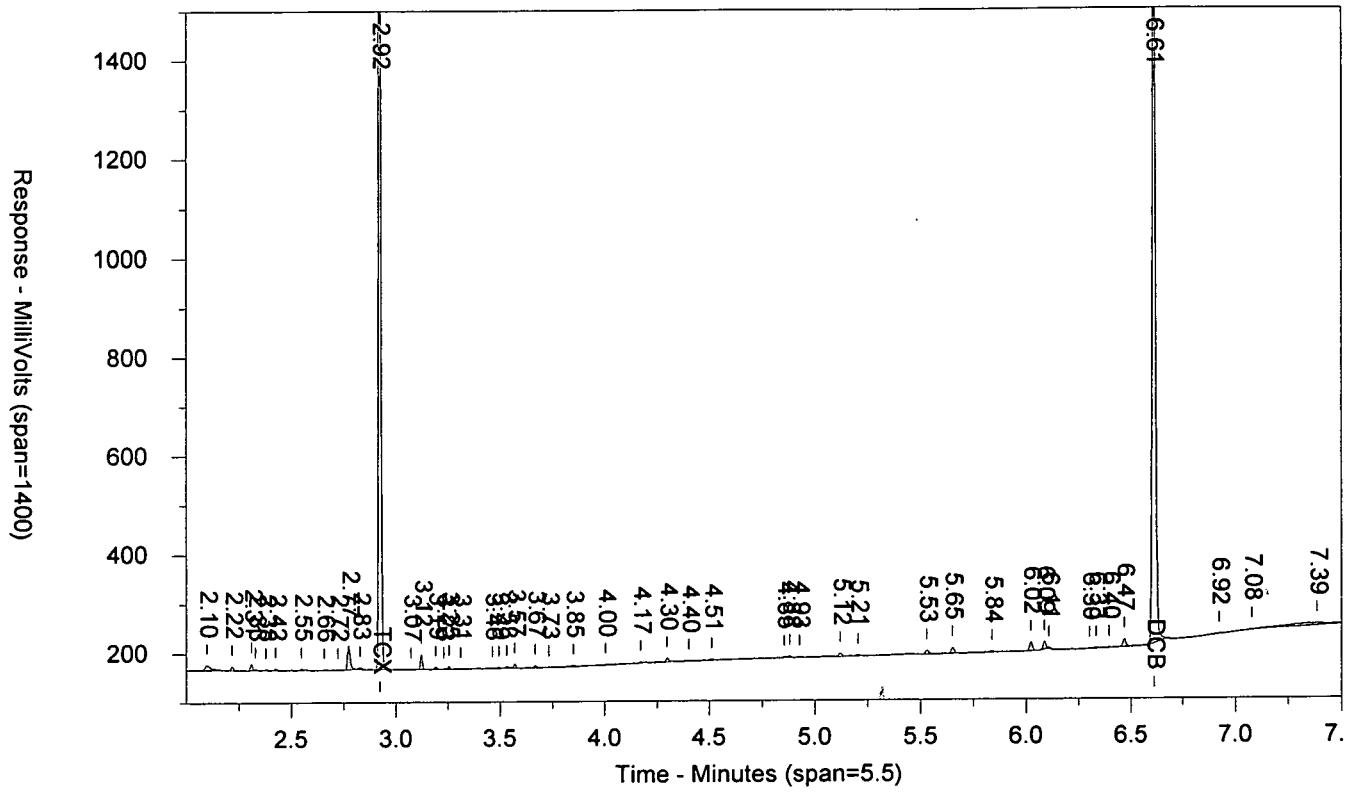

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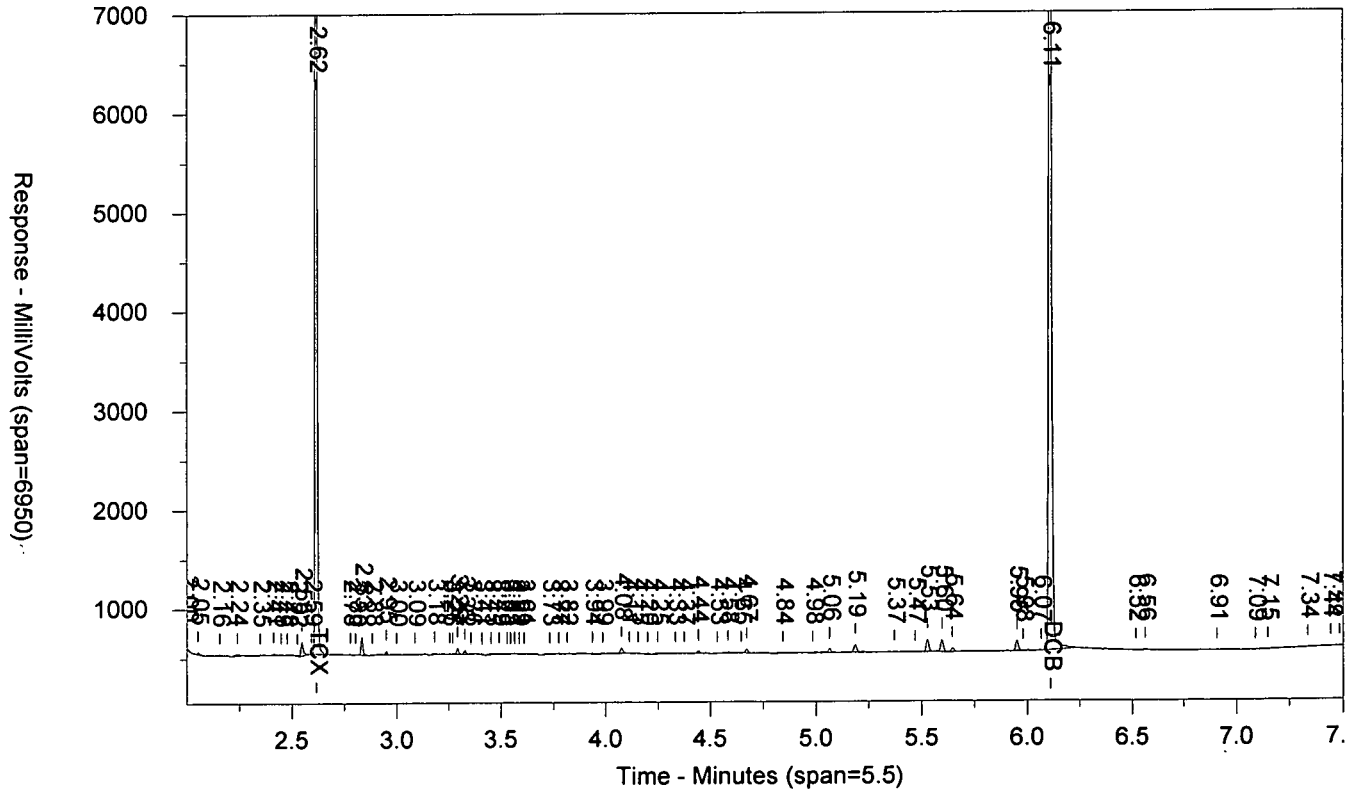

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2190175	.193	TCX	2.615	13497890	.195	TCX
6.614	1571934	.228	DCB	6.11	10753940	.221	DCB

Files:
Area File: 20pcbs17137001.005.RAW
Area File: 20pcbs17137001B.005.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:26:29 PM
File Reported On: 5/18/2017 at 4:29:40 PM

IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082

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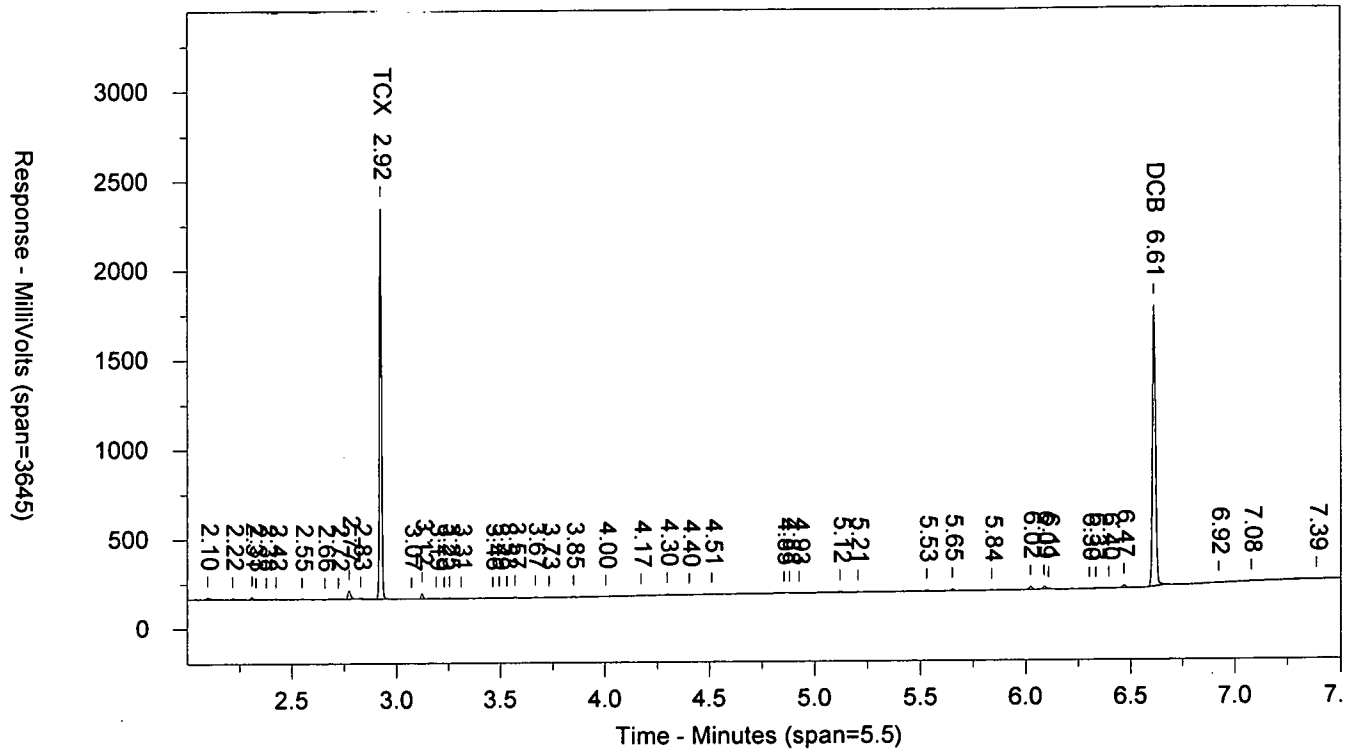

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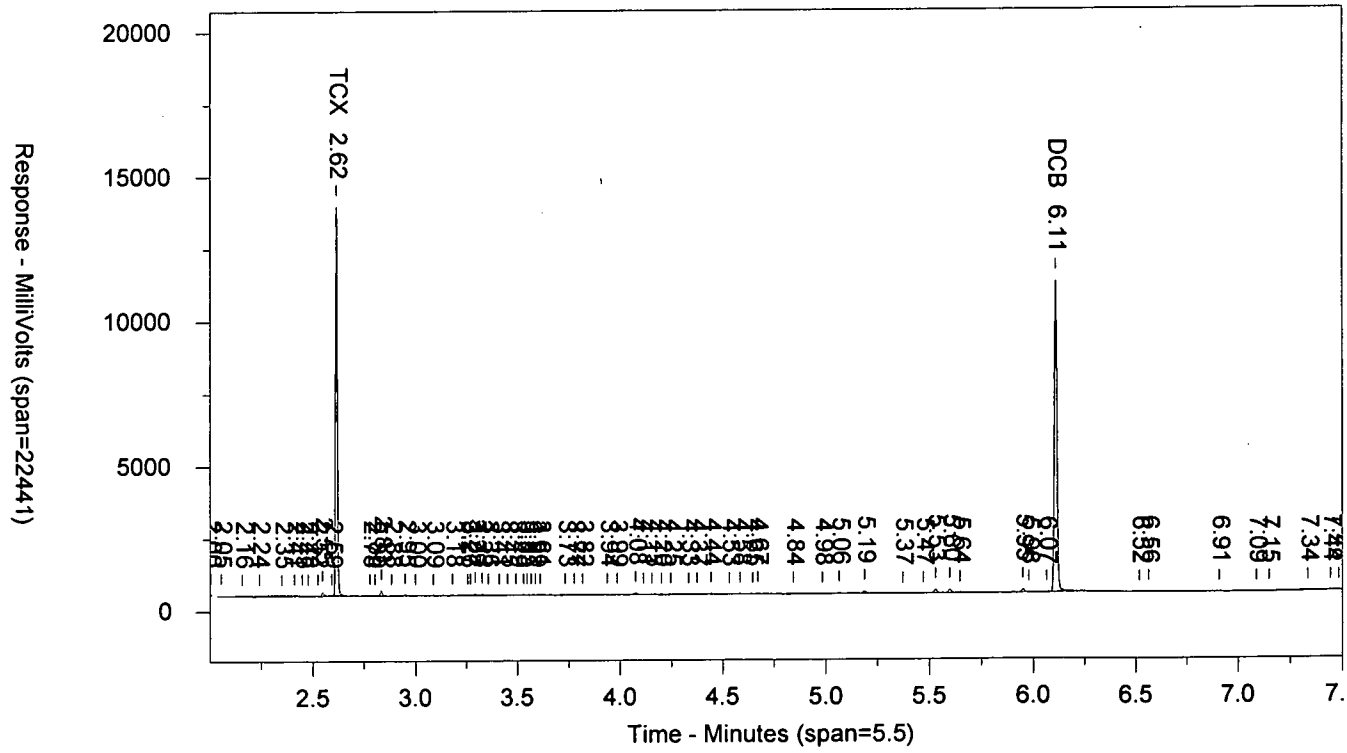

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.006.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.008		1624	1167
2.101		7371	10860
2.217		8399	7429
2.309		18620	11978
2.338		14739	9903
2.379		2606	2611
2.423		2162	1685
2.509		29438	19036
2.55		1686	1224
2.654		1670	2220
2.773		35235	30417
2.826		1972	2066
2.923	TCX	2460172	1623398
3.01		1632	1479
3.123		33806	21250
3.211		1725720	1092090
3.254		5711	3625
3.314		12287	8575
3.411		1402945	899740
3.442		9768	6672
3.492		5104	4391
3.534		569689	379626
3.568		5067	3080
3.666		12209	10276
3.704		44691	33344
3.734		2288	1309
3.767		2180	1485
3.813		79946	61777
3.843		5973	4931
3.874		1261	822
4.001		12899	15289
4.061		2307	1658
4.09		49517	40401
4.139		2155	1823
4.17		67525	52608
4.208		12247	7397
4.225		5406	3014
4.27		1848	1439
4.296		7128	6910
4.355		1919	1495
4.384		138315	120383
4.468		5188	4255
4.506		5755	5240
4.55		27651	22160
4.575		32043	24966
4.648		4020	4663
4.707		102957	94947
4.808		130465	119663
4.846		4414080	3876867
4.875		27356	16358
4.895		10283	6114
4.952		654121	579979
5.033		29424	39829
5.113		42736	43441

RT A	Compound A	Height A	Area A
5.152		6443	4881
5.187		5836710	5297173
5.271		24660	25711
5.412		187087	196560
5.49		2880	2241
5.552		6439295	6244735
5.613		60706	60886
5.646		168866	152231
6.021		23261	23179
6.087		20904	18362
6.199		626	1637
6.467		16456	16731
6.612	DCB	1519815	1611921
6.73		786	616
6.92		1334	5813
7.072		1133	3469
7.239		772	6425
7.924		680	1322
8.516		847	1017
8.679		4882	6584

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.006.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		14482	11251
2.054		22745	20859
2.12		4385	8263
2.154		121521	73021
2.186		4436	2339
2.204		8667	4053
2.24		20163	23511
2.268		4725	5305
2.322		194490	112481
2.369		6264	5355
2.396		1729	834
2.411		7627	6280
2.478		7873	10620
2.522		6489	7195
2.547		105282	86294
2.616	TCX	14968390	8787316
2.704		9697	5007
2.718		5603	2228
2.779		8495	5483
2.803		4948	4411
2.833		207107	126873
2.89		10312	15863
2.961		10984870	6007818
3.059		3357	2026
3.079		72492	44904
3.116		67078	42944
3.146		7567	3557
3.17		9248478	5090297
3.244		9563	7302
3.267		32281	20797
3.292		41291	25708
3.326		90391	52125
3.35		3801724	2184023
3.374		4366	5309
3.41		32735	20812
3.435		30054	16514
3.452		36835	19002
3.473		715957	482484
3.505		37058	21115
3.548		36403	21279
3.585		9194	34912
3.671		24171	37074
3.713		17698	21822
3.764		423272	233629
3.779		226943	108386
3.812		11252	6099
3.84		108947	71115
3.861		70008	42812
3.887		19680	27531
3.937		8253	4736
3.955		2925	1184
3.974		12077	5987
3.994		940574	639080
4.021		11676	7618

RT B	Compound B	Height B	Area B
4.072		73094	65439
4.111		10405	5451
4.127		12904	6587
4.15		266808	204023
4.192		27297	24076
4.246		214695	192948
4.299		10116	10420
4.369		682745	487834
4.392		9047	4887
4.429		28209590	21447590
4.468		143269	105580
4.521		4757546	3559945
4.565		43817	42054
4.634		185888	163363
4.67		41971	26791
4.701		40345090	30605000
4.76		382204	309202
4.791		32127	20828
4.82		2814	2204
4.844		5379	2654
4.872		121340	110022
4.913		4445	3157
4.984		5839	4612
5.027		950339	835636
5.063		38994	28367
5.132		36772390	31724590
5.187		293744	245486
5.243		2909	934
5.309		1426719	1222632
5.362		36658	31012
5.451		3244	4446
5.528		165758	136380
5.596		155772	138050
5.644		41938	37196
5.9		2733	3027
5.95		119068	97353
5.981		3788	2404
6.072		2112	1528
6.11	DCB	11184720	9742197
6.46		7048	6308
6.559		6404	6016
6.792		4598	4703
6.974		1919	2643
7.149		2127	3361
7.357		4626	26426
7.436		2271	7973
8.219		16862	38949

EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082

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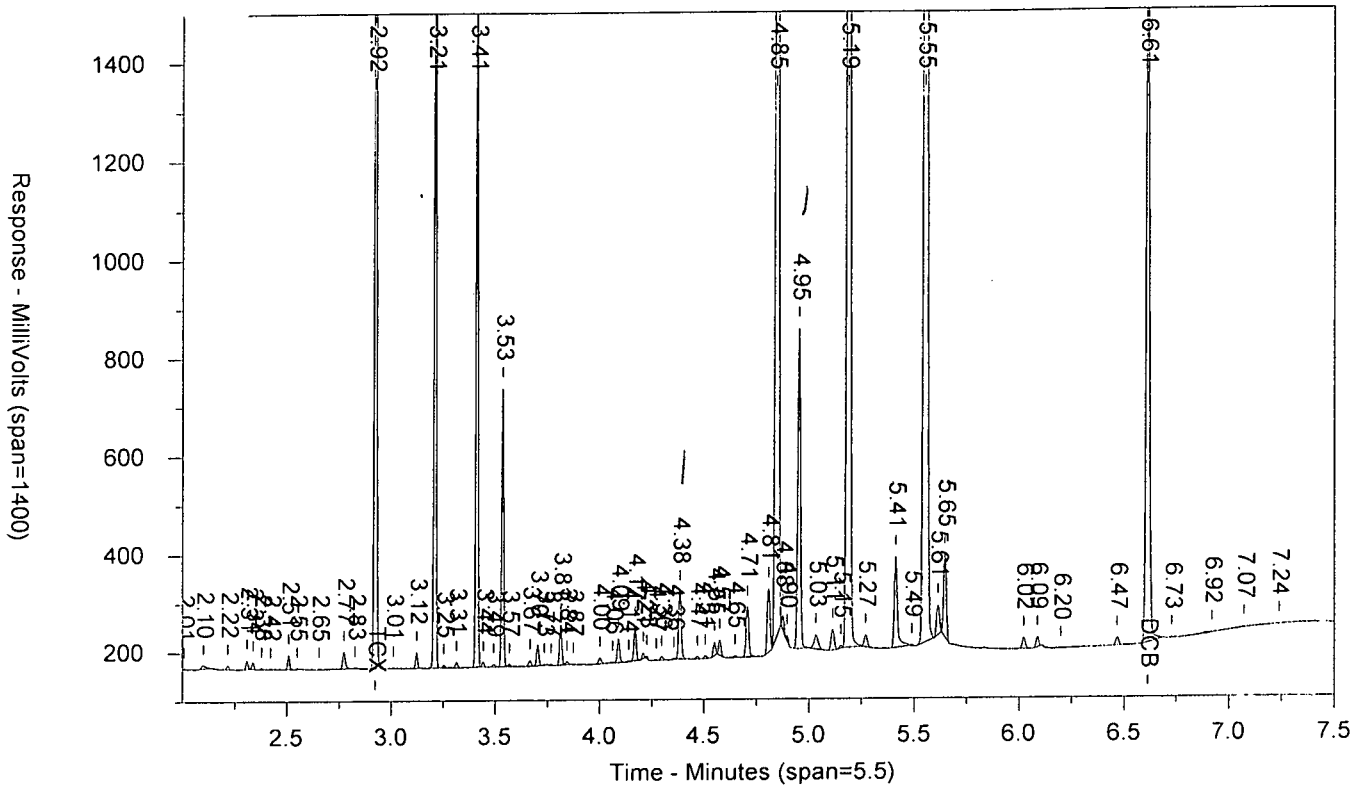

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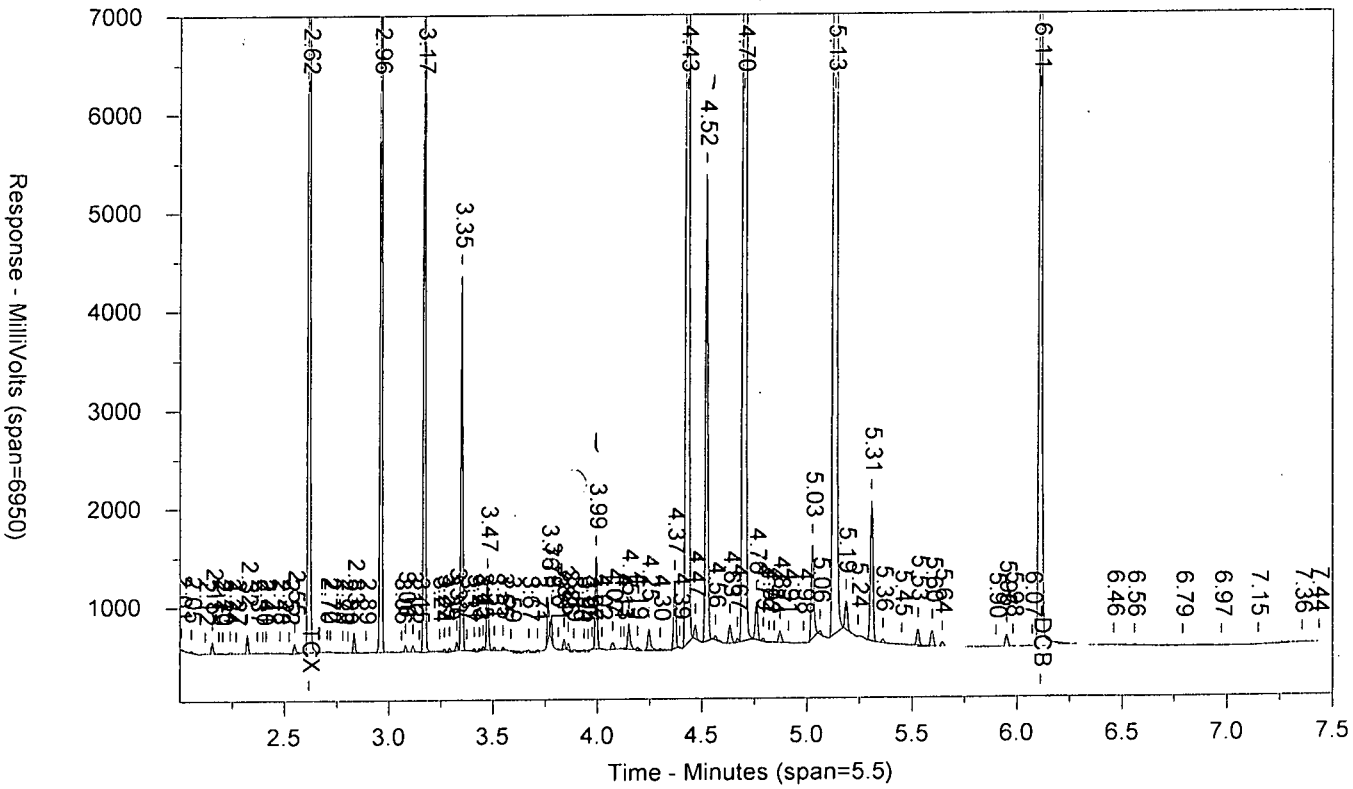

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2460172	22.902	TCX	2.616	14968390	22.91	TCX
6.612	1519815	24.622	DCB	6.11	11184720	25.991	DCB

Files:
Area File: 20pcbs17137001.006.RAW
Area File: 20pcbs17137001B.006.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:37:49 PM
File Reported On: 5/17/2017 at 5:37:57 PM

EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082

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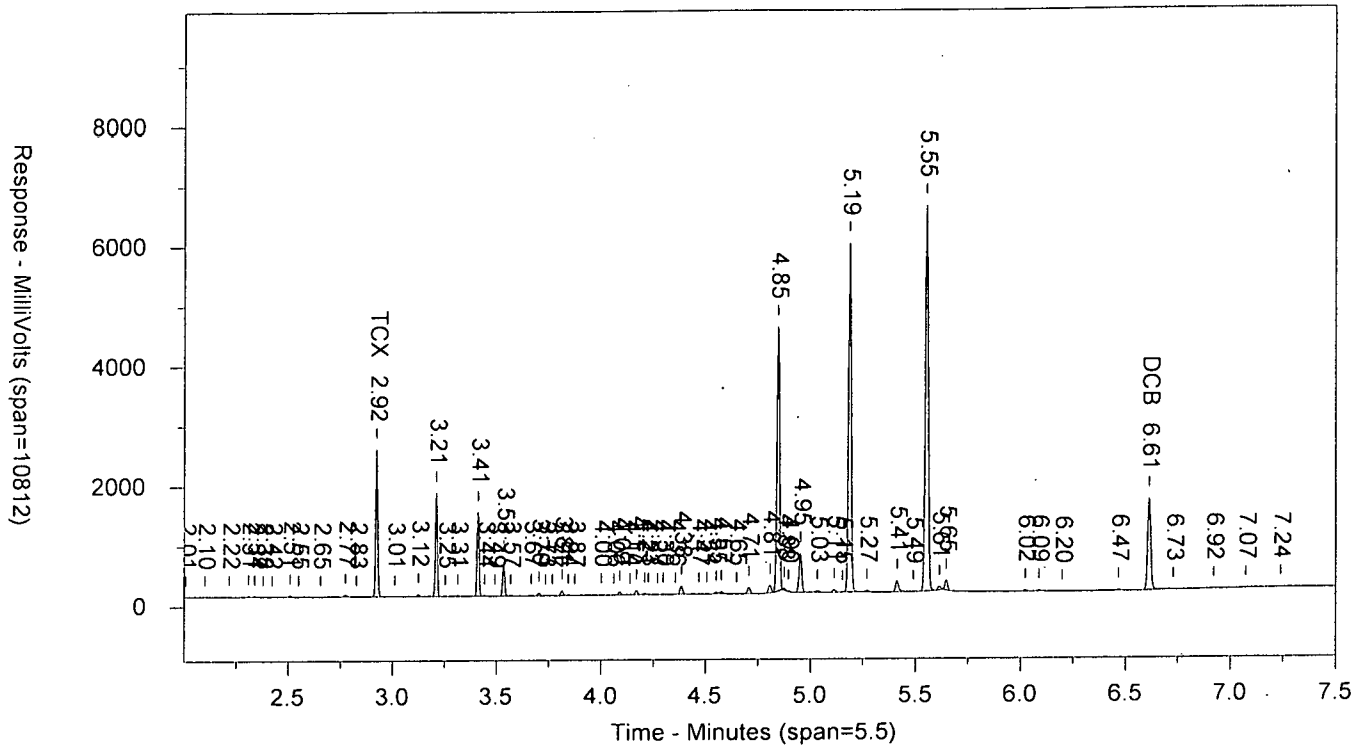

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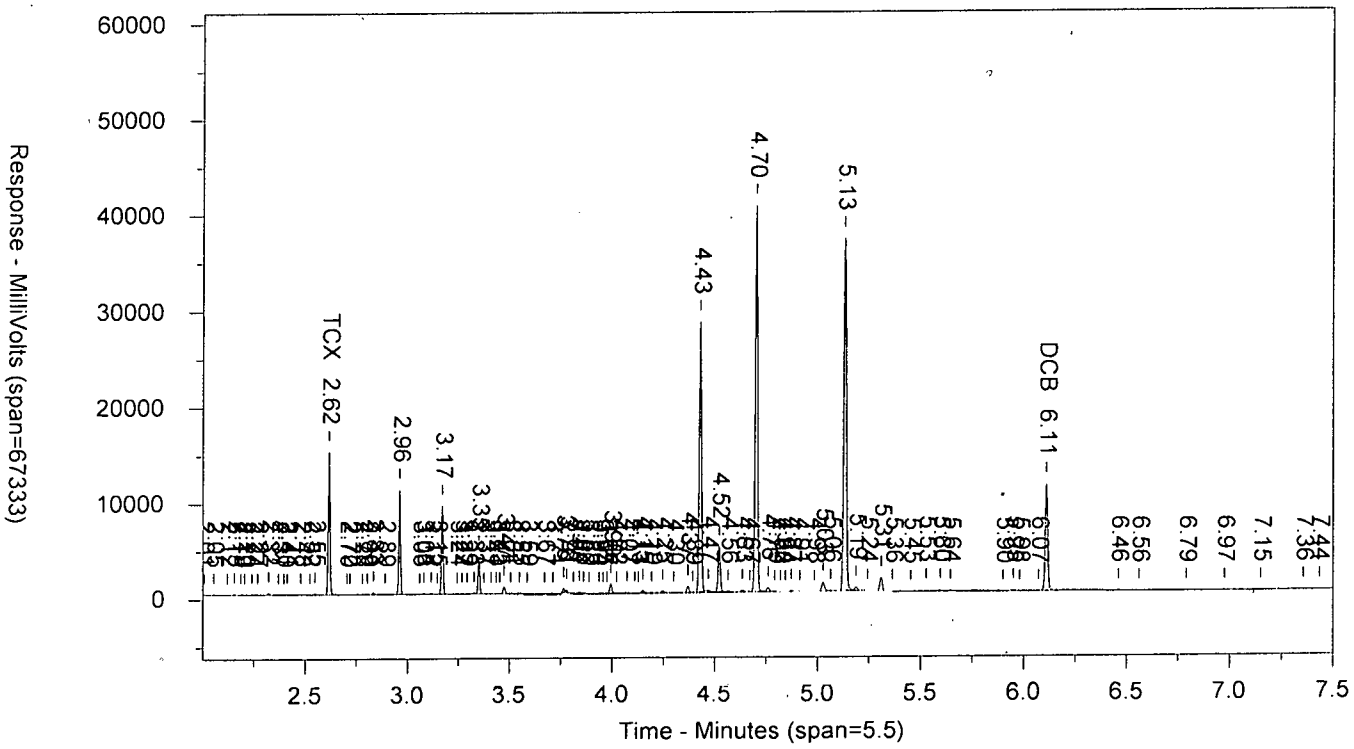

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.007.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		5030	7332
2.217		1689	2019
2.309		7898	5457
2.377		1869	2223
2.423		2440	2031
2.565		2227	3976
2.658		1459	1402
2.773		34447	29199
2.827		3131	3187
2.923	TCX	439163	304512
3.075		16714	13357
3.133		24008	19362
3.181		115327	83705
3.253		1230	672
3.274		13394	9037
3.362		1146	998
3.396		120312	73269
3.413		54894	28489
3.45		12030	6956
3.465		3190	1341
3.482		9510	5697
3.512		131734	94987
3.567		1429	596
3.586		3671	2323
3.623		27306	14988
3.637		12223	5711
3.682		55197	30332
3.692		115430	58325
3.729		141614	105613
3.787		115235	85608
3.827		7567	5439
3.854		88768	63684
3.882		62468	51546
3.904		18854	9831
3.979		93099	68111
4.003		33872	21650
4.033		34114	25177
4.069		92867	94085
4.108		29651	22944
4.155		2676	1829
4.192		5421	4590
4.227		101846	76233
4.247		26119	14483
4.271		25611	17190
4.296		6925	5177
4.338		15592	12807
4.381		111757	101173
4.414		2198	1489
4.477		928	934
4.52		11323	12727
4.574		11742	7109
4.589		24690	16128
4.633		72358	61975
4.679		95806	110688

RT A	Compound A	Height A	Area A
4.717		21883	15696
4.756		221540	208499
4.847		36337	42009
4.876		2754	1718
4.904		42552	38874
4.955		256477	331310
5.005		49436	44998
5.049		117261	134361
5.091		1997	1134
5.128		26578	31367
5.164		298279	333820
5.226		143814	132823
5.27		94362	90867
5.392		167397	235268
5.449		83649	78206
5.489		46146	40727
5.531		11283	11118
5.575		58519	58142
5.63		380872	393052
5.749		1775	1800
5.837		212271	226582
5.874		22083	21698
5.89		17365	13242
6.021		8776	9135
6.085		8818	6732
6.109		38978	33425
6.266		93383	92329
6.311		6360	6439
6.402		890	770
6.467		24934	25639
6.509		1462	1468
6.613	DCB	292286	314385
7.275		1289	136094
7.708		622	608
8.081		1604	8725
8.172		2132	9365

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.007.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		7218	4858
2.158		4903	6510
2.239		14231	20658
2.299		6773	4539
2.341		2055	1220
2.413		11229	15491
2.476		7270	9882
2.524		5336	4794
2.546		104260	80541
2.59		4628	2207
2.615	TCX	2640776	1593663
2.659		53145	38561
2.786		115100	73207
2.833		21446	9121
2.846		123353	64484
2.898		634997	397671
2.947		7200	4876
2.987		3160	1552
3.009		78832	48440
3.105		551272	270340
3.116		191383	77393
3.156		82462	49540
3.178		48365	29316
3.203		68726	37767
3.227		780216	514401
3.264		30774	18982
3.291		9837	4391
3.309		201489	105153
3.325		180178	90916
3.354		3752	1463
3.375		469917	215893
3.385		845000	357673
3.406		31187	12774
3.419		752133	491846
3.493		860044	540859
3.528		602607	382250
3.551		667084	370186
3.57		219151	109982
3.655		758311	496131
3.678		283141	155069
3.699		266412	157547
3.728		190487	93215
3.745		637243	377285
3.786		230188	163467
3.832		35349	29306
3.855		169352	101815
3.877		836604	553781
3.902		177422	107574
3.922		26726	12713
3.94		98699	60148
3.976		707712	487028
4.01		32404	18718
4.025		57052	35322
4.074		57954	53232

RT B	Compound B	Height B	Area B
4.12		56491	58051
4.177		184930	121434
4.22		168725	97314
4.238		189321	90550
4.252		450355	251715
4.277		284748	286570
4.329		1478677	1134179
4.376		26192	21854
4.399		165171	109883
4.423		353316	254455
4.466		1739197	1355768
4.529		3128	3975
4.568		1360754	1333148
4.622		179897	147830
4.66		404675	339873
4.697		1696137	1441283
4.729		841989	586499
4.767		590198	472707
4.841		7533	5854
4.867		198201	206944
4.918		1082249	838066
4.942		155954	101225
4.992		568330	526649
5.028		293411	236387
5.058		215665	180586
5.09		85824	54806
5.112		2307434	1918536
5.154		52429	37796
5.185		110201	87756
5.304		28246	18108
5.327		513235	422231
5.372		1525920	1657357
5.528		60252	50969
5.572		42881	32403
5.596		47967	37129
5.645		284864	253220
5.751		628226	519376
5.782		35004	25848
5.835		5229	6689
5.951		166736	149749
6.109	DCB	2056760	1891892
6.29		2464	2798
6.717		1883	2247
7.048		3303	6502
7.442		1852	24801
7.617		2187	7879
7.849		2043	3156
7.914		2219	2606
8.216		14868	25915

AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082

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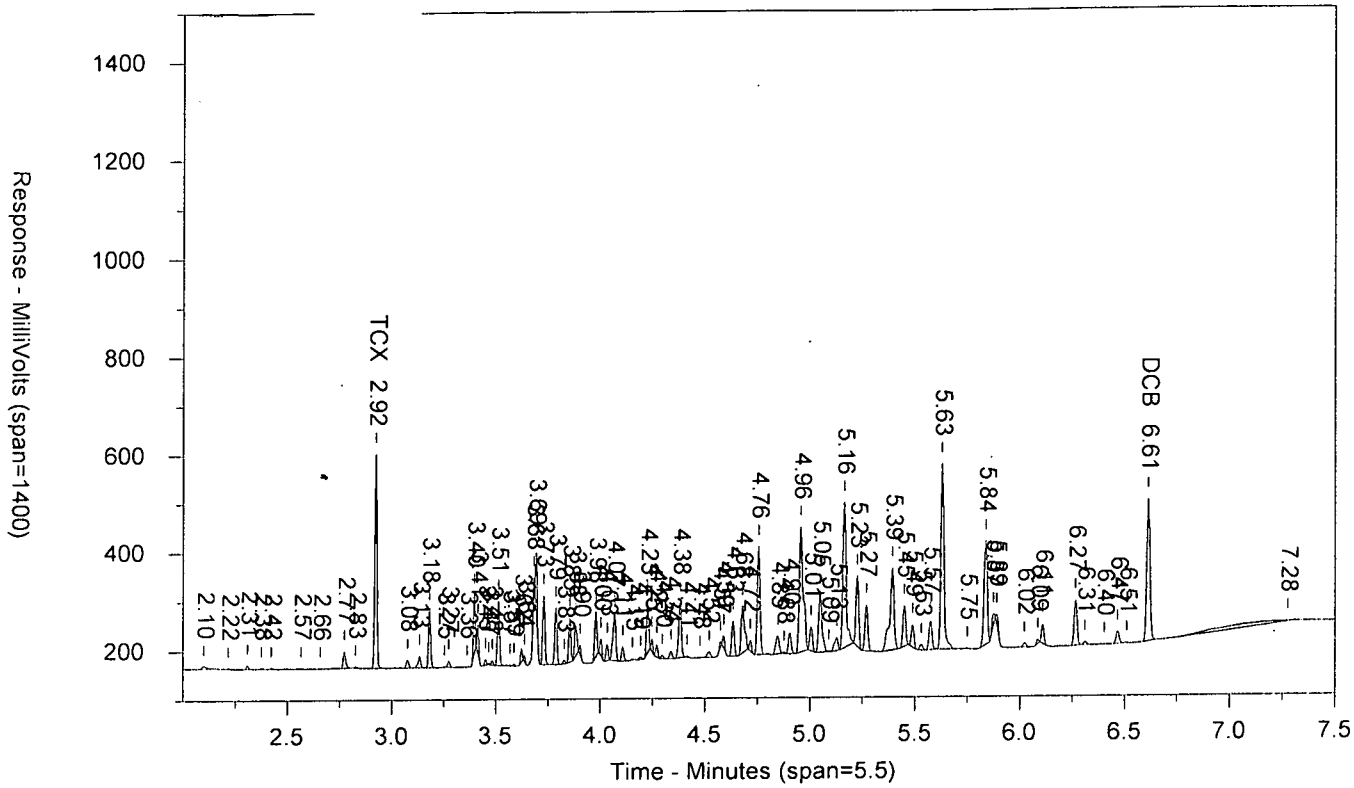

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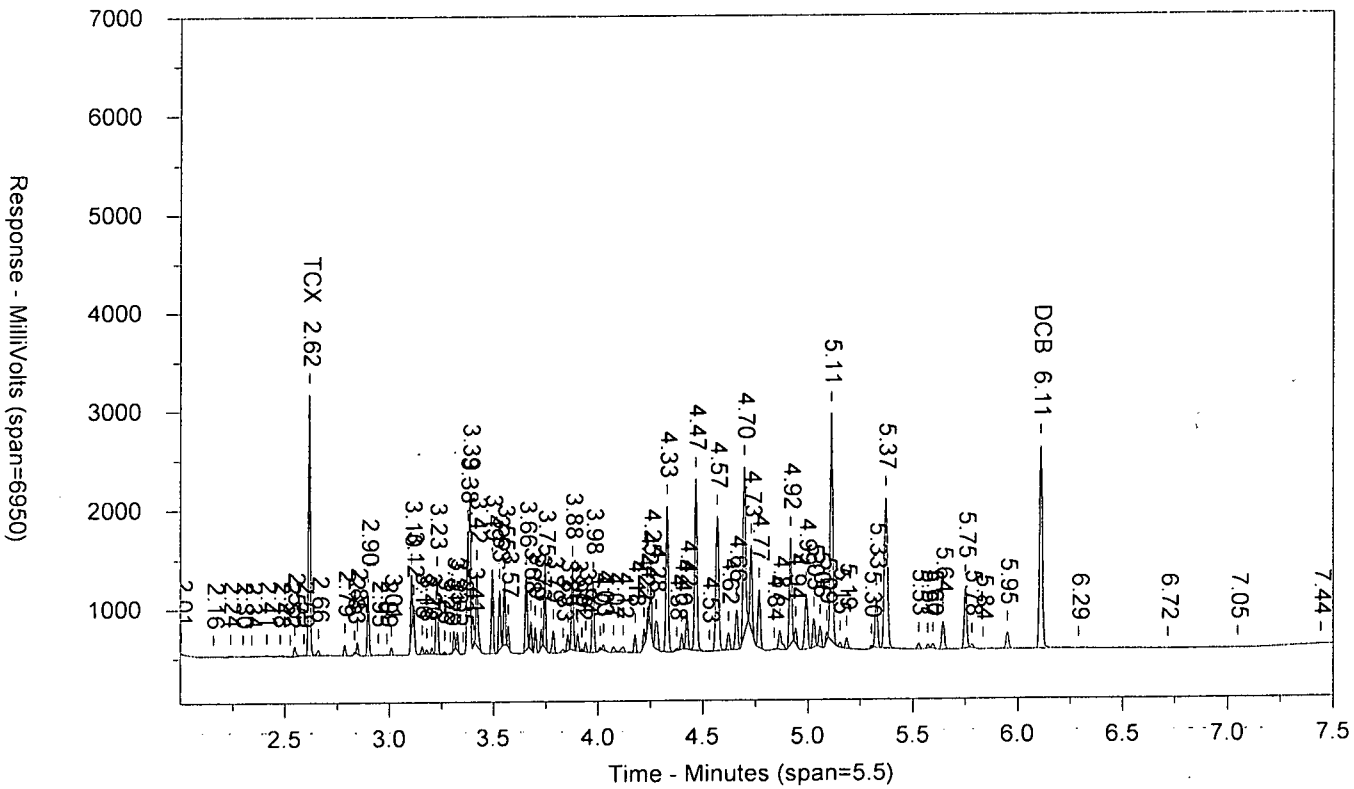

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	439163	4.088	TCX	2.615	2640776	4.042	TCX
6.613	292286	4.735	DCB	6.109	2056760	4.78	DCB

Files:
Area File: 20pcbs17137001.007.RAW
Area File: 20pcbs17137001B.007.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:49:21 PM
File Reported On: 5/17/2017 at 5:49:32 PM

AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082

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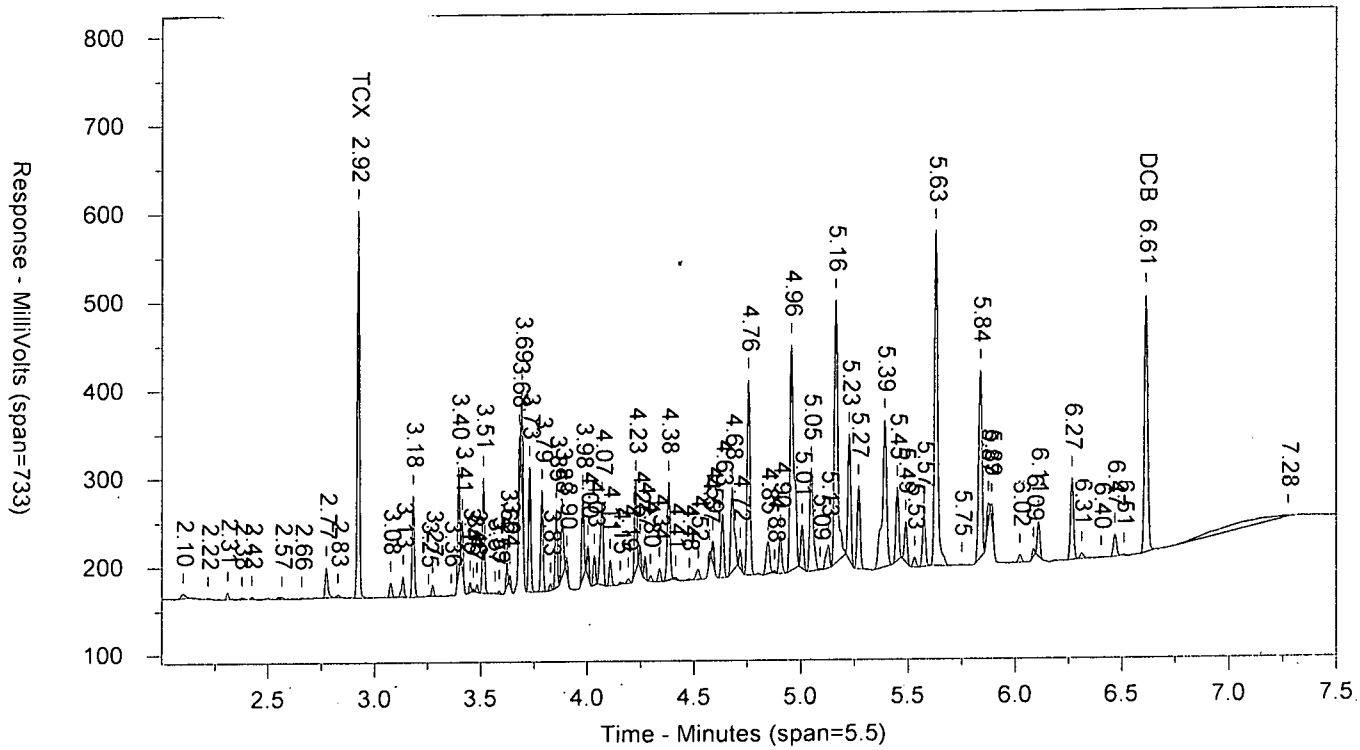

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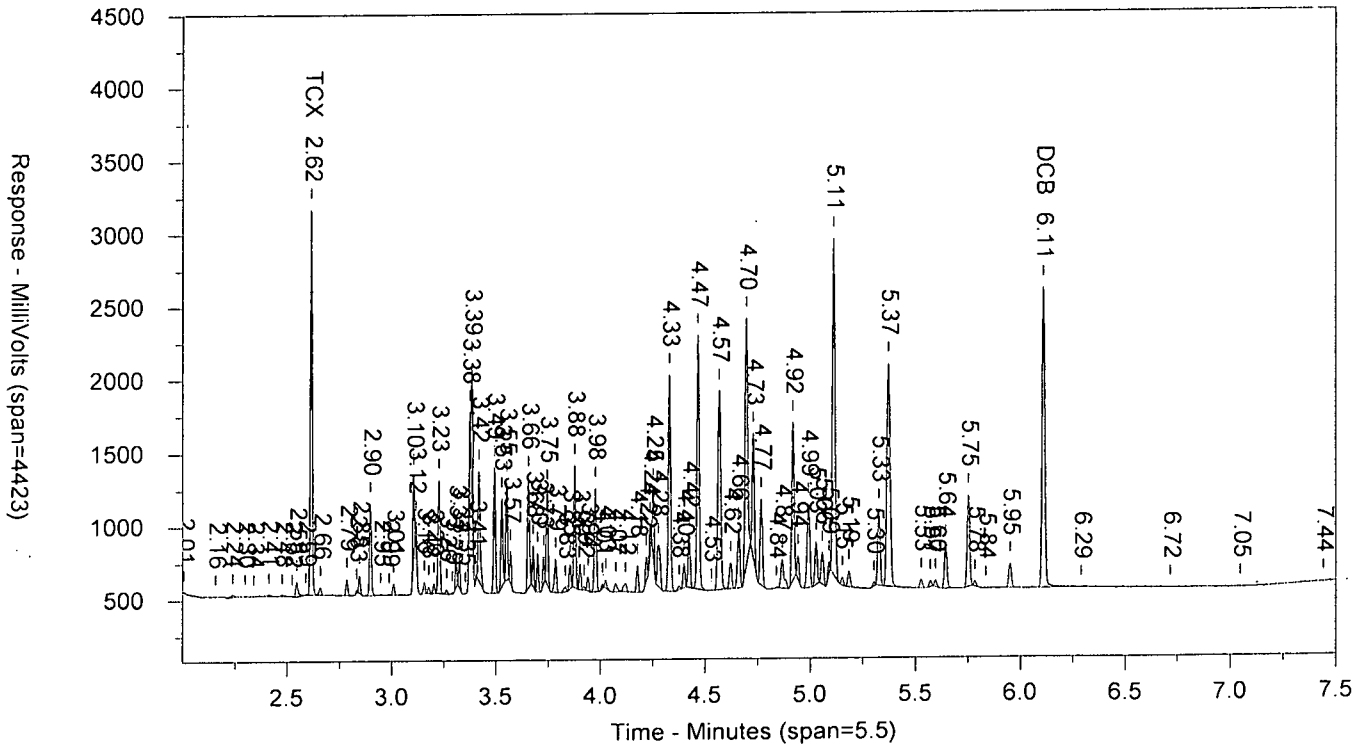

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.008.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.097		13540	19690
2.138		3661	4018
2.217		7933	6528
2.309		11858	7535
2.328		2127	1251
2.375		2225	2434
2.424		3170	2540
2.498		1183	1693
2.548		1614	1022
2.565		1999	1321
2.658		1614	1316
2.717		948	639
2.773		47248	42470
2.827		3758	4035
2.922	TCX	2257924	1485899
3.075		34107	28402
3.132		48038	50452
3.18		214919	155457
3.252		4507	2619
3.273		26478	17507
3.314		1081	872
3.394		214700	132119
3.411		96060	51223
3.448		23977	13692
3.464		5399	2229
3.48		18819	10959
3.51		242210	178804
3.565		6869	4008
3.584		6665	3750
3.62		52003	29221
3.635		24971	11537
3.679		107198	57152
3.69		232544	118658
3.726		269286	198281
3.785		206316	165115
3.825		16812	11561
3.852		159305	118078
3.88		115749	98563
3.901		37777	19764
3.976		174917	127310
4		60309	39304
4.031		69171	49099
4.066		175291	180089
4.106		55181	45864
4.152		6911	5309
4.19		9349	7736
4.224		190195	141867
4.245		48163	27742
4.268		50265	35074
4.293		6791	4933
4.335		30070	25288
4.379		208270	190273
4.412		5250	3396
4.476		2462	1994

RT A	Compound A	Height A	Area A
4.516		25386	26547
4.571		18012	13020
4.585		43500	28556
4.632		134788	119187
4.676		185626	208360
4.715		45598	31391
4.754		413142	398207
4.798		3360	3530
4.844		74536	79270
4.875		7968	5136
4.901		77113	70877
4.954		491097	632104
5.003		94179	84822
5.047		232102	258527
5.089		3403	2105
5.125		51392	65824
5.161		557327	534061
5.184		15970	7823
5.224		278765	250609
5.267		170321	170018
5.369		18439	22776
5.388		281443	246516
5.448		158580	149215
5.488		87023	76460
5.527		27856	26524
5.573		114799	112472
5.629		700029	785779
5.835		425595	438608
5.876		31141	43202
5.888		30471	20132
6.02		30851	31202
6.084		27614	20447
6.108		68248	61829
6.265		175530	177812
6.31		11695	11514
6.465		56327	59178
6.506		1418	1004
6.61	DCB	1387708	1460917
7.365		668	136252
8.058		933	753
8.685		2743	4536

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.008.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3798	4590
2.054		18157	13357
2.118		3534	1780
2.155		8869	10895
2.239		17605	26795
2.3		12446	8903
2.366		4473	7980
2.394		2329	1095
2.411		13287	12495
2.452		3934	2519
2.477		6695	5043
2.515		7496	10584
2.547		136660	111371
2.592		5695	2843
2.616	TCX	13579360	7959337
2.659		94645	63640
2.786		224189	144427
2.833		133608	61921
2.847		211852	105129
2.899		1178404	733797
2.949		34906	21390
3.01		156963	95408
3.105		1526135	1441358
3.156		159453	96540
3.178		88310	50262
3.203		134920	71990
3.227		1458177	962921
3.264		61647	36489
3.291		54843	26388
3.31		385166	199615
3.325		267484	129362
3.354		4696	2439
3.375		803535	377561
3.385		1807104	751168
3.405		68791	27621
3.418		1422333	916190
3.492		1688703	1027549
3.527		1175757	701174
3.551		1248626	683320
3.568		416377	209749
3.654		1437489	928733
3.676		525665	281296
3.698		492553	290087
3.726		351169	174604
3.743		1226975	706744
3.784		428500	306682
3.832		66728	56776
3.854		326824	196118
3.876		1588328	1045762
3.901		346912	205346
3.92		50747	25009
3.939		182591	111910
3.974		1345733	911713
4.009		68488	39997

RT B	Compound B	Height B	Area B
4.024		115076	71179
4.072		56873	55459
4.119		114941	124332
4.151		6770	3597
4.175		343353	234169
4.219		271781	163753
4.236		319646	168652
4.249		831264	446987
4.276		551121	542930
4.328		2851820	2156147
4.374		44627	40742
4.397		332846	214906
4.422		658816	472198
4.464		3233009	2568987
4.567		2661244	2576777
4.62		362251	291871
4.659		754585	681380
4.695		3381883	2868426
4.727		1577102	1087402
4.766		1203443	910205
4.839		8739	8224
4.865		402435	412938
4.917		2076618	1621308
4.94		294421	195443
4.99		1151881	1009952
5.026		580495	454955
5.056		433055	375356
5.088		183324	111938
5.111		4505800	3780771
5.151		110311	78250
5.184		280212	239060
5.302		54853	34467
5.326		967331	811863
5.37		3235155	3430463
5.526		219280	187370
5.571		78985	58731
5.594		206783	159267
5.644		594795	515845
5.75		1176800	1015599
5.781		71175	51781
5.898		2410	1858
5.949		405676	342310
6.062		2437	1948
6.108	DCB	9871559	8702559
6.279		5787	3577
6.56		7539	9348
6.72		1995	3171
7.043		2323	2755
7.155		1322	2619
7.266		1093	6002
7.486		3047	31201
8.017		2180	1080
8.216		15607	30653
8.675		3931	4394

AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082

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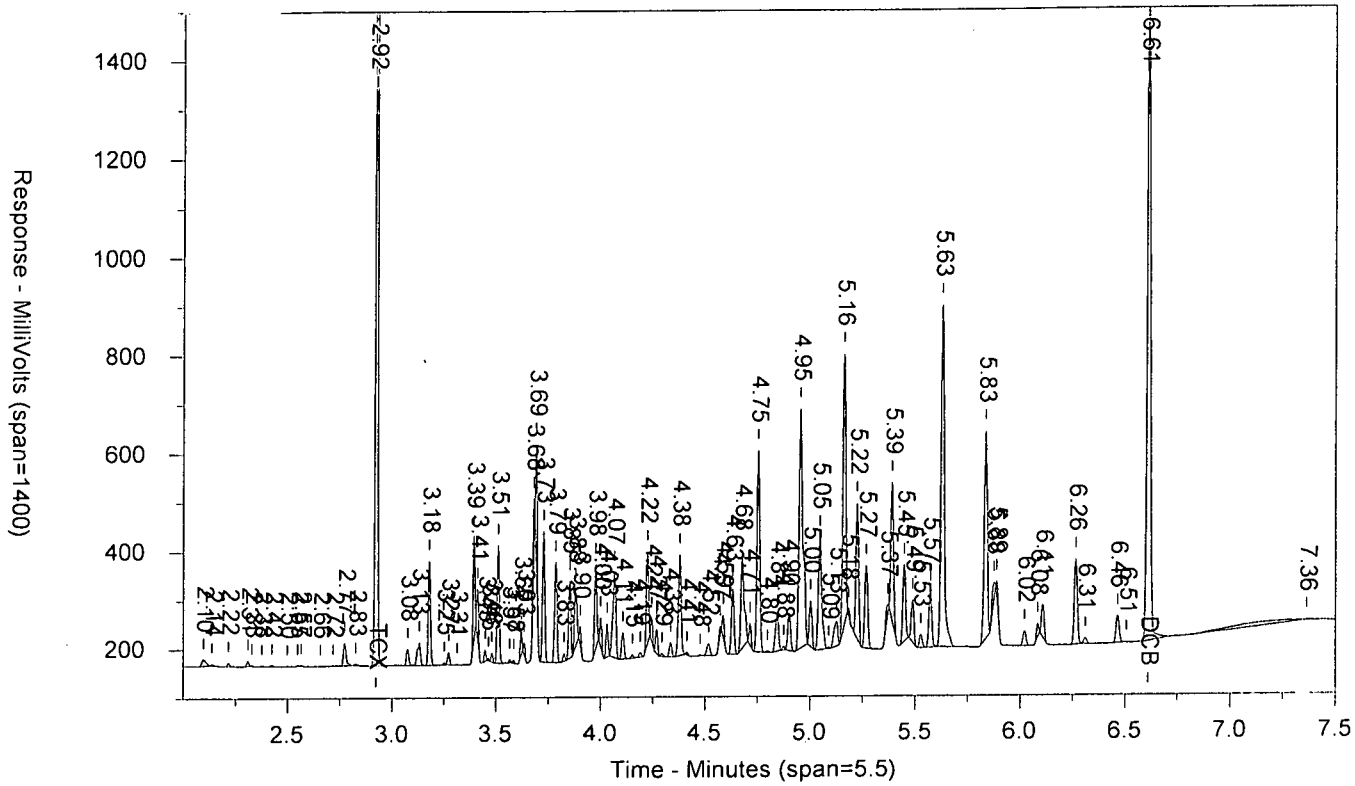

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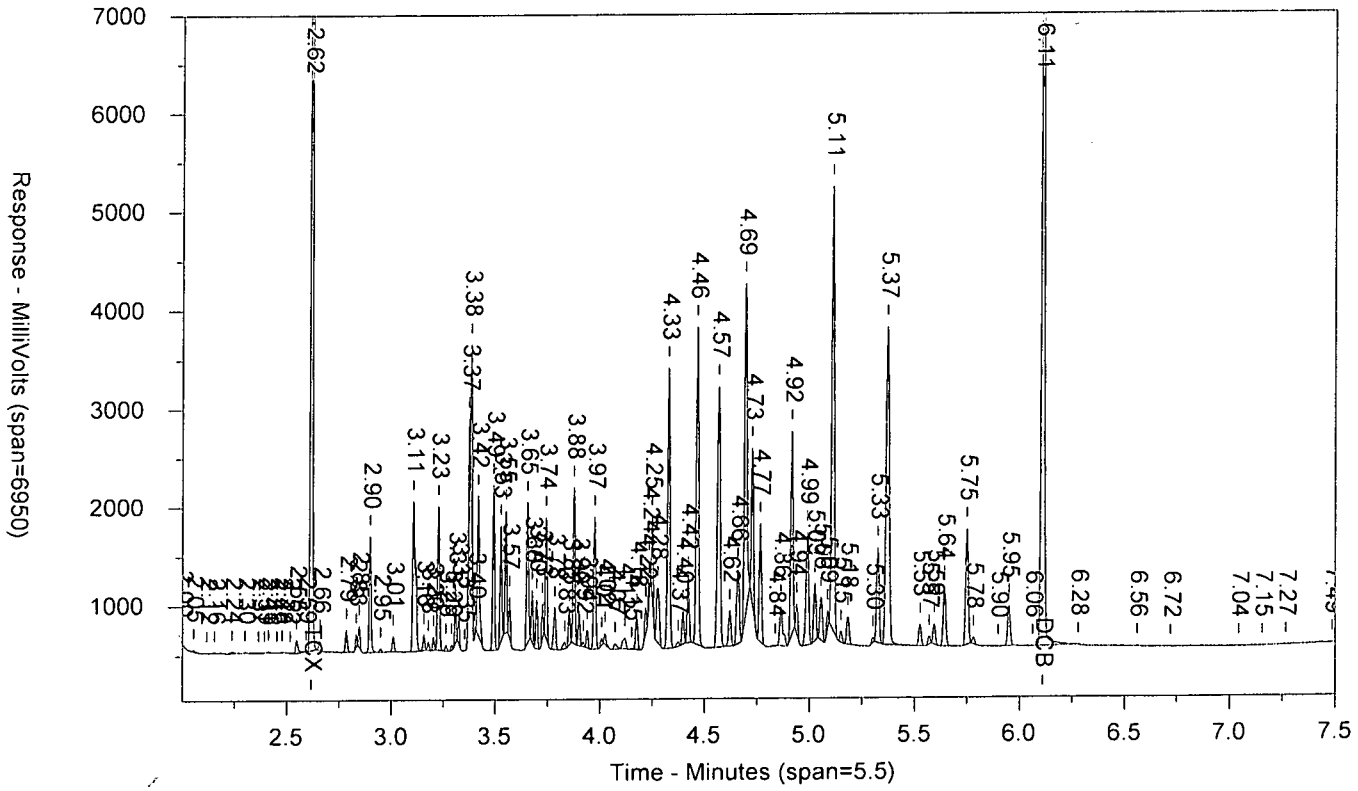

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.922	2257924	21.064	TCX	2.616	13579360	20.624	TCX
6.61	1387708	21.947	DCB	6.108	9871559	22.242	DCB

Files:
Area File: 20pcbs17137001.008.RAW
Area File: 20pcbs17137001B.008.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:00:42 PM
File Reported On: 5/17/2017 at 6:00:56 PM

AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082

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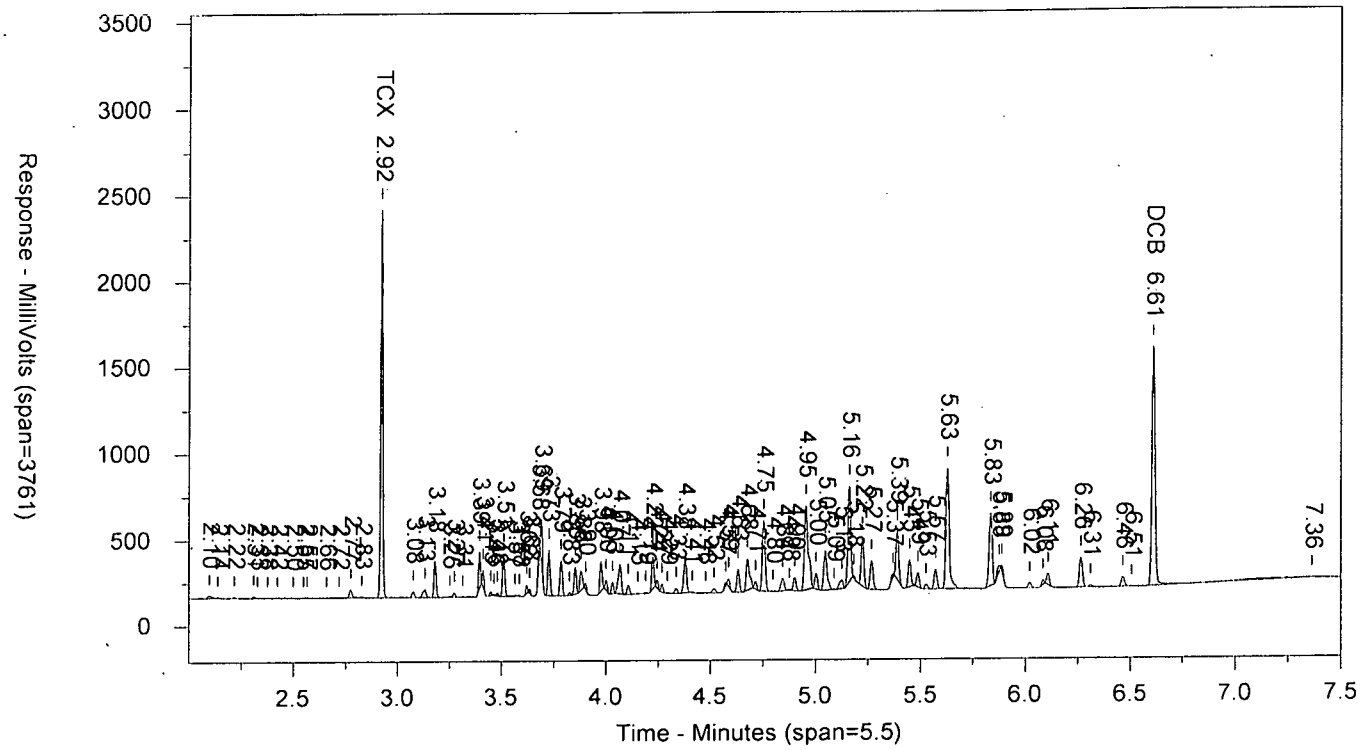

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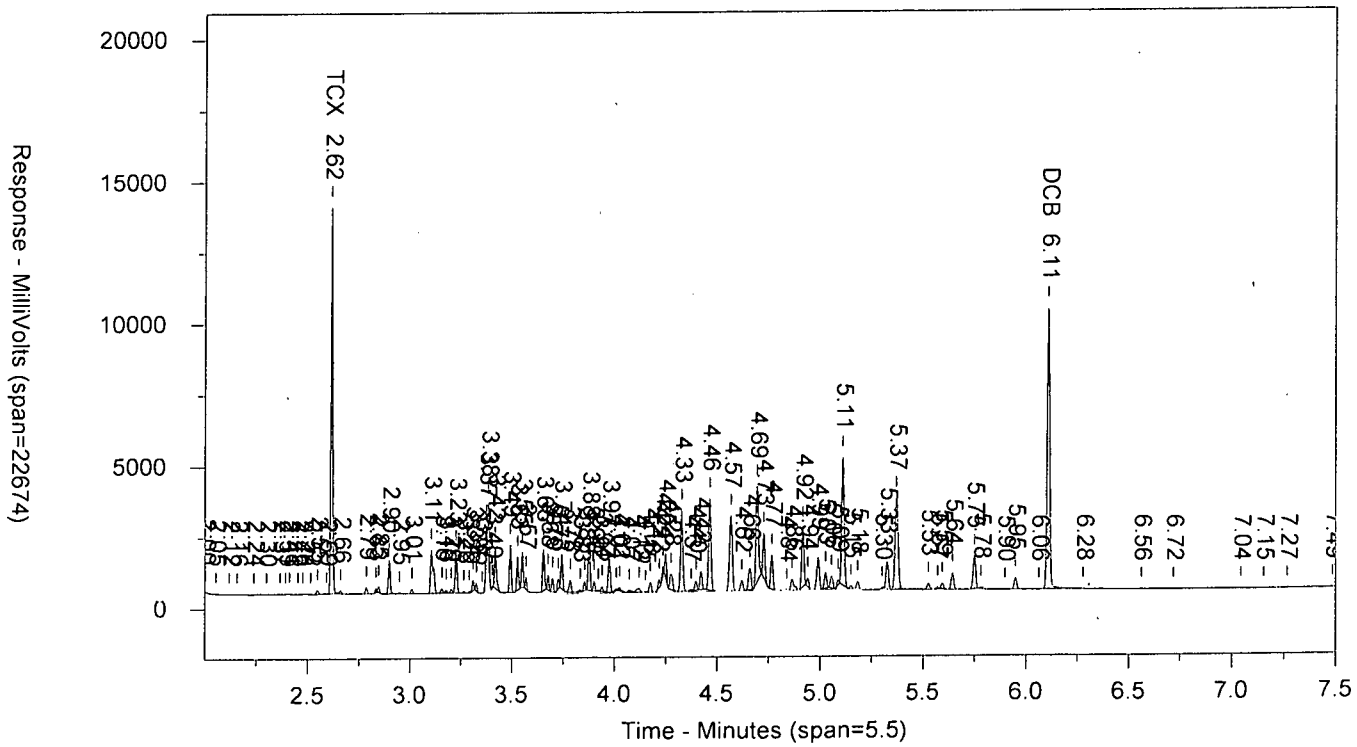

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.009.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4875	7317
2.217		16245	12457
2.309		11276	7029
2.328		5093	2902
2.377		1521	2082
2.423		2661	2288
2.549		1674	1106
2.564		3773	2525
2.659		1182	1447
2.718		1219	1045
2.773		28681	23997
2.828		2722	3390
2.923	TCX	4583477	3064338
3.025		1196	582
3.075		73350	59641
3.132		98428	101047
3.18		409975	293666
3.252		8474	4715
3.273		53227	35214
3.394		416894	248581
3.411		182117	100749
3.448		48582	28287
3.464		13994	5747
3.48		37673	21890
3.51		475744	344425
3.544		1928	987
3.565		12708	7464
3.583		14223	8551
3.62		96546	55483
3.634		44786	21714
3.678		199061	113976
3.689		463509	239758
3.726		499852	390418
3.784		419475	326892
3.824		33603	23708
3.852		309287	222721
3.879		211654	180958
3.9		63472	34960
3.975		339155	245669
4		119996	77365
4.03		131767	95672
4.066		337431	352475
4.105		111476	89933
4.151		15649	11536
4.19		18833	15730
4.224		374455	278366
4.245		95669	53011
4.268		101139	72526
4.293		4918	3038
4.335		58535	50518
4.377		389953	368998
4.412		11005	7507
4.475		4670	3804
4.515		51476	52698

RT A	Compound A	Height A	Area A
4.57		42225	27173
4.584		78892	54729
4.631		256125	229678
4.676		350079	400867
4.714		82838	60527
4.753		835899	774968
4.797		7296	7266
4.843		138850	152065
4.875		13823	9596
4.901		144153	132723
4.953		1001603	1234033
5.002		176285	158196
5.046		453871	503932
5.088		8189	4457
5.124		98318	126461
5.161		1188888	1284119
5.224		548490	484944
5.267		339671	326979
5.389		654544	878308
5.447		305070	284956
5.487		153024	143484
5.527		49534	48435
5.572		225996	214605
5.628		1515702	1559011
5.835		857403	859267
5.875		44920	67292
5.887		74557	51802
6.02		56433	57263
6.084		50165	37586
6.107		134453	114652
6.263		324873	336522
6.309		22470	23495
6.463		103574	112410
6.609	DCB	2576136	2784706
6.842		750	390
7.068		1575	1865
7.342		988	20401

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.009.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		3897	3524
2.054		38641	26045
2.156		7967	7867
2.238		14661	22064
2.3		24979	16801
2.412		14230	14069
2.476		6570	11629
2.526		6316	5645
2.547		84949	53554
2.57		4387	2439
2.592		5795	3046
2.616	TCX	28348640	16358670
2.659		184034	124505
2.703		5318	4611
2.786		443408	291437
2.833		257234	121709
2.847		404769	200069
2.899		2252085	1389333
2.949		70109	40987
2.987		2428	1290
3.01		296112	184502
3.105		2928715	2761084
3.156		326360	200210
3.177		176027	101842
3.203		256586	140402
3.227		2789487	1871652
3.263		122603	70533
3.291		90911	45138
3.309		736245	387782
3.325		466481	228257
3.351		6070	2607
3.375		1515862	731964
3.384		3284824	1391391
3.404		124767	46288
3.418		2853917	1856195
3.492		3389307	2037636
3.527		2191621	1351446
3.55		2432056	1332436
3.568		792136	396971
3.653		2806160	1805006
3.676		1040262	537694
3.697		1008444	580010
3.726		657174	343394
3.743		2377297	1391466
3.783		819339	599156
3.831		139288	119077
3.853		621187	370392
3.875		3134163	2034238
3.9		660093	395958
3.92		112495	53323
3.939		365838	223504
3.974		2574628	1763888
4.008		134536	80096
4.023		219520	135911

RT B	Compound B	Height B	Area B
4.072		56677	64609
4.118		237589	266151
4.151		15363	7720
4.176		730738	518307
4.218		567891	334155
4.236		688492	338526
4.25		1687014	912099
4.275		1011242	1038088
4.327		5576325	4244671
4.374		88741	83162
4.397		622843	408701
4.421		1263757	896821
4.464		6713137	5032174
4.567		5279960	5113443
4.62		693814	582511
4.659		1431562	1307318
4.694		6964376	5648926
4.727		3025769	2132349
4.766		2238904	1774715
4.833		9867	10875
4.865		777766	812497
4.917		3999105	3220758
4.941		584072	375729
4.99		2205804	1940925
5.026		1104384	875098
5.056		851971	718656
5.088		391005	234506
5.111		9640877	7674216
5.151		196846	148733
5.184		536880	449121
5.302		106757	68150
5.326		1843407	1557479
5.371		6430639	6852072
5.527		401545	341436
5.571		169204	116038
5.595		368773	292813
5.644		1123215	984907
5.75		2290661	1941860
5.781		132742	98577
5.949		746038	648465
6.069		2896	1544
6.108	DCB	19151470	16877130
6.285		5179	5217
6.558		13420	10890
7.15		1385	2006
7.305		2352	2674
7.502		1285	11686
7.608		3102	8882
7.839		2096	2758
8.115		1160	1732
8.213		15535	28728
8.449		1784	915

AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082

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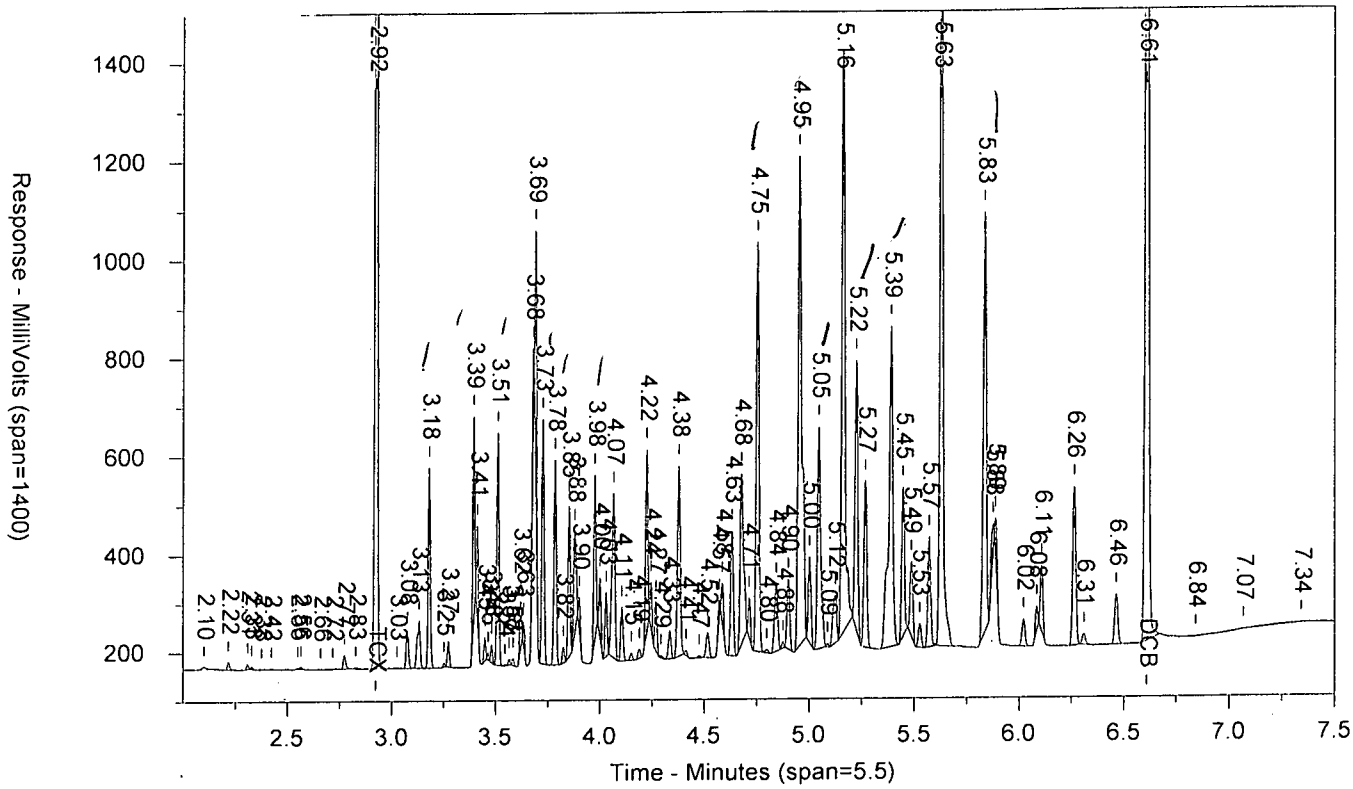

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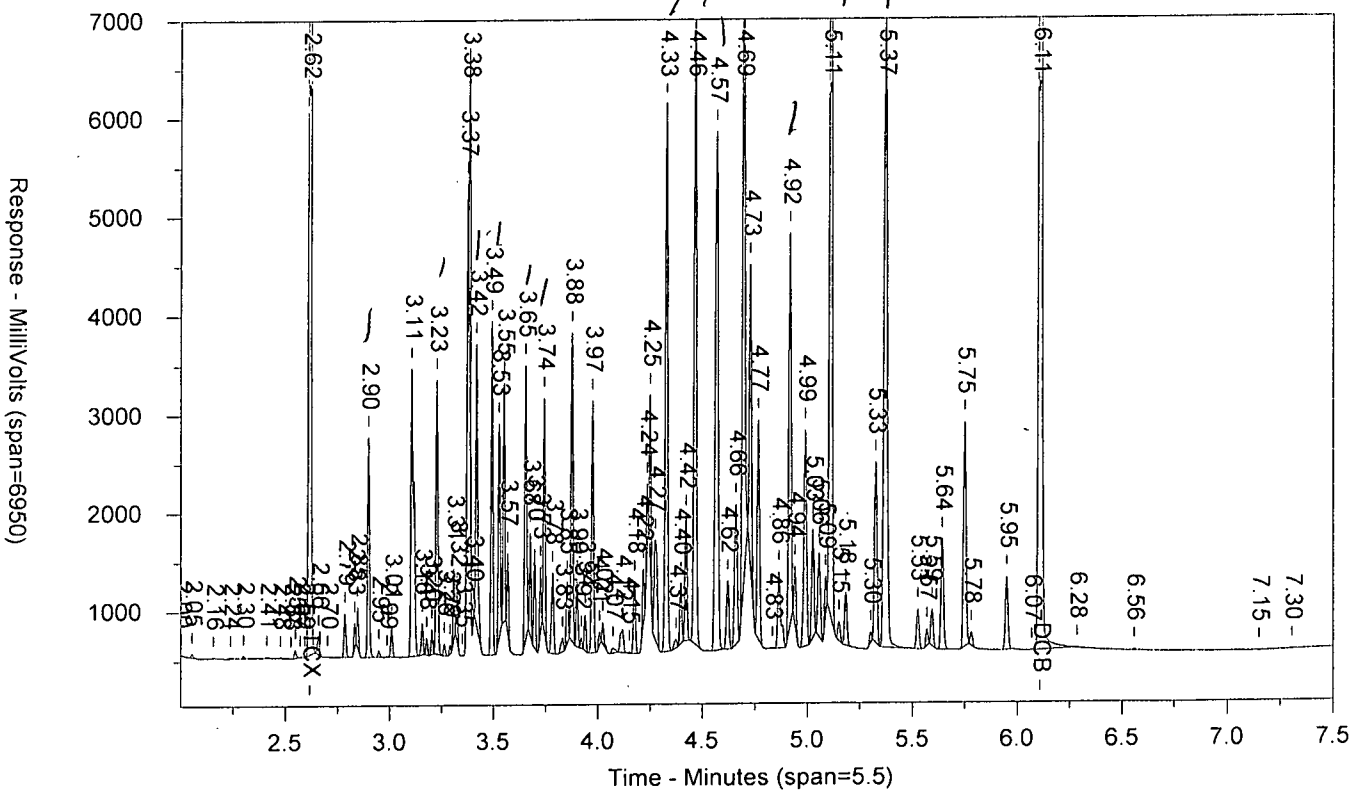

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4583477	41.945	TCX	2.616	28348640	42.631	TCX
6.609	2576136	39.751	DCB	6.108	19151470	41.876	DCB

Files:
Area File: 20pcbs17137001.009.RAW
Area File: 20pcbs17137001B.009.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:12:08 PM
File Reported On: 5/17/2017 at 6:12:20 PM

AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082

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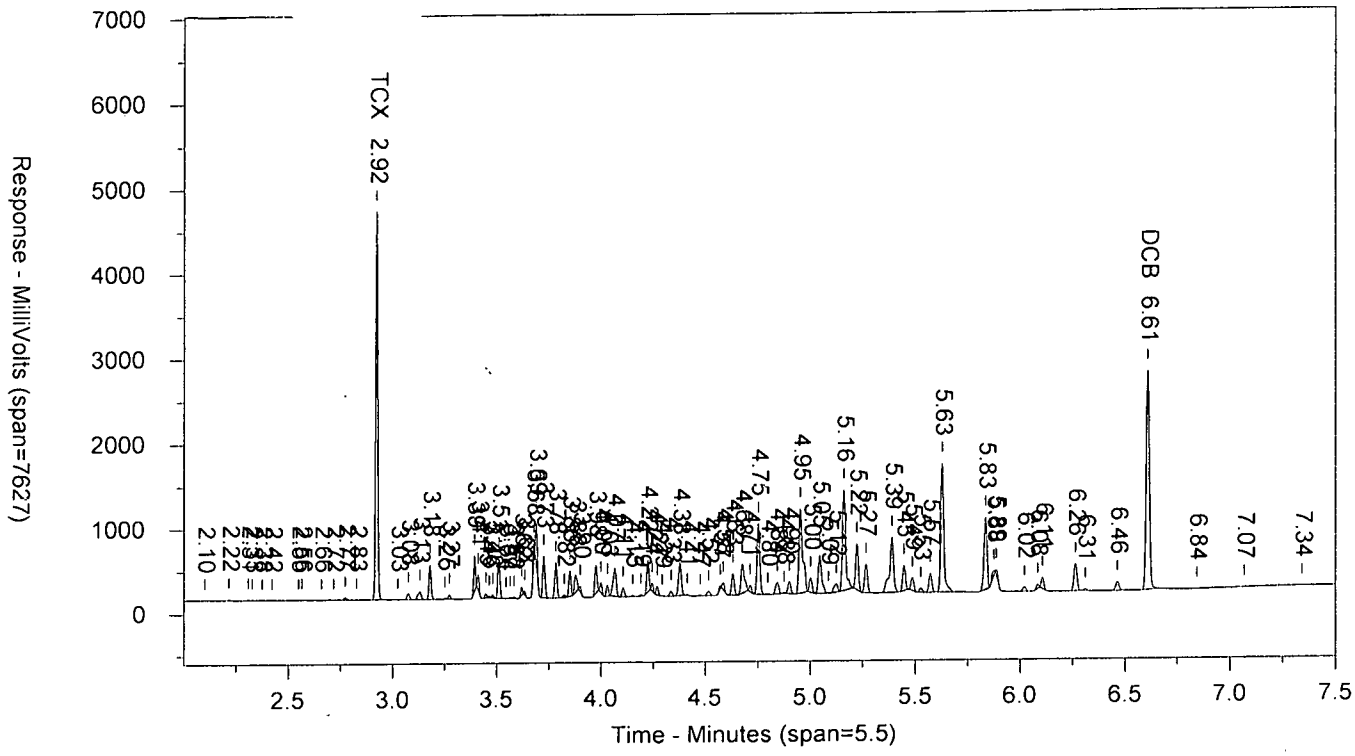

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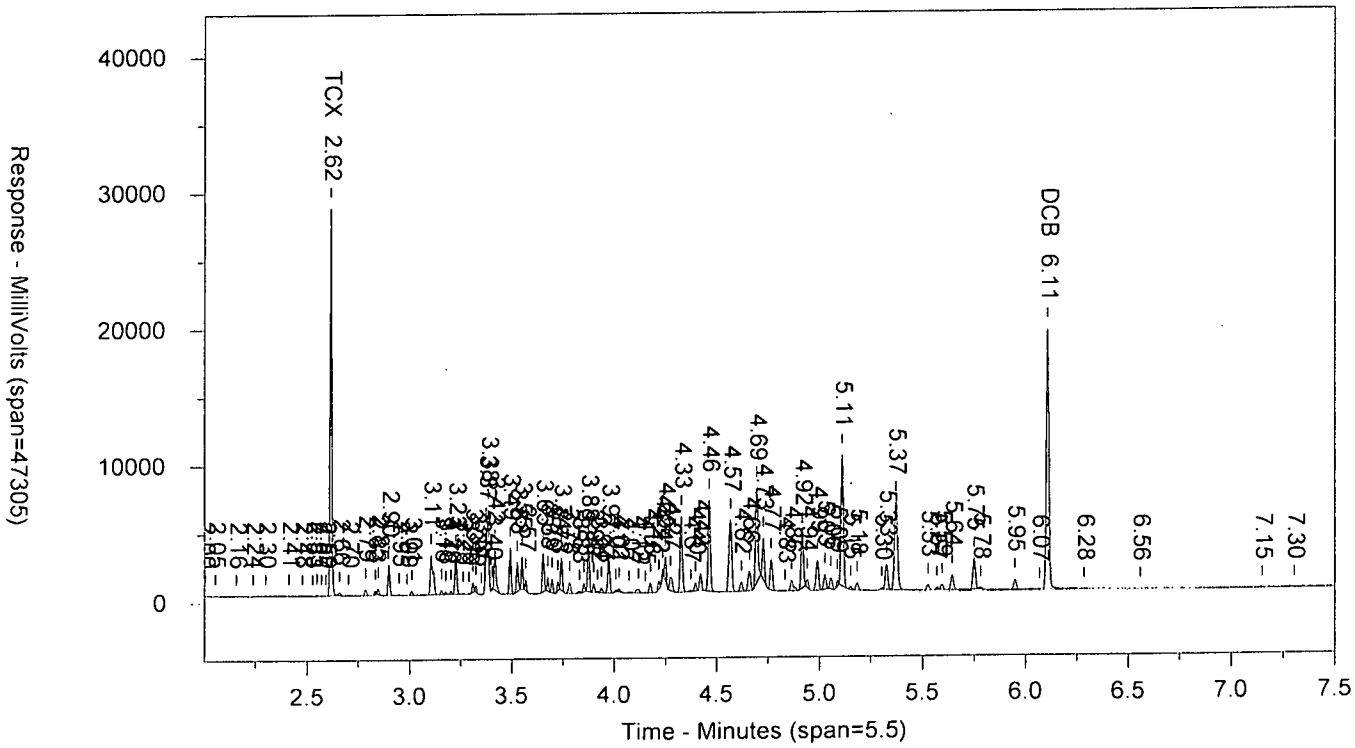

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.010.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		7802	13107
2.217		24346	17440
2.309		8052	4818
2.328		8595	5161
2.379		1775	1919
2.423		3535	3087
2.565		11029	10334
2.658		1358	1216
2.773		36533	30853
2.827		2941	1843
2.922	TCX	7055128	4679450
3.025		1939	1141
3.075		163893	135622
3.132		210148	200775
3.18		952439	674455
3.252		12834	7025
3.274		124046	86386
3.313		3000	2002
3.395		943890	587991
3.412		448034	233176
3.449		114644	66047
3.465		32351	13095
3.482		85160	51948
3.512		1122490	820416
3.547		4887	2454
3.567		25642	14669
3.586		37270	22323
3.622		217201	129379
3.637		101521	49427
3.682		501842	278663
3.692		1109356	575944
3.729		1282676	938411
3.788		1073439	805513
3.827		79118	57255
3.854		694029	518302
3.881		521417	436537
3.903		136364	77601
3.978		812490	589443
4.002		264648	168130
4.032		314537	222325
4.069		825949	855537
4.108		257675	211390
4.154		38561	29564
4.193		44133	36051
4.227		912413	674880
4.247		239214	129598
4.27		227471	170020
4.296		3783	2102
4.337		135916	119240
4.38		980392	883554
4.415		27025	17533
4.477		10712	9237
4.518		115993	121868
4.574		96986	62564

RT A	Compound A	Height A	Area A
4.588		184017	122440
4.634		630232	551697
4.679		880026	969035
4.716		204892	144362
4.755		2071612	1885029
4.798		18261	18028
4.847		314879	352121
4.877		31315	20581
4.903		337668	311027
4.955		2473284	2993109
5.005		411025	365151
5.048		1158517	1232105
5.09		18121	10998
5.127		223776	273392
5.163		3003769	3151692
5.225		1310605	1161296
5.269		833404	777693
5.39		1615414	2123076
5.448		718344	669720
5.489		394625	336938
5.529		100825	99520
5.573		564152	513602
5.63		3847696	3842925
5.717		3442	3044
5.836		2051991	2083465
5.876		121019	191898
5.888		167505	121724
6.021		98046	102282
6.084		94235	69771
6.108		317353	273046
6.265		780653	788907
6.31		52467	51742
6.392		1124	874
6.435		777	574
6.465		221485	234485
6.61	DCB	4164353	4196003
7.067		2944	4135
7.41		899	25450
7.713		915	495
7.79		571	880
8.681		5252	7647

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.010.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		6604	4853
2.054		60961	39670
2.155		4457	5293
2.186		2260	1114
2.239		14180	21279
2.3		57806	37883
2.341		2487	1879
2.366		3727	2653
2.394		2625	1182
2.414		9024	12230
2.476		6445	4713
2.529		8251	7306
2.547		102301	66586
2.572		9850	5114
2.59		3499	1614
2.616	TCX	43097310	24850320
2.659		424688	303108
2.786		982755	655788
2.833		355790	153679
2.847		926759	482275
2.898		5345189	3196626
2.949		106478	59094
3.009		693160	430824
3.105		4545948	2166857
3.116		1601925	606271
3.156		724982	460749
3.178		404203	222497
3.203		573349	323961
3.227		6689352	4403470
3.264		272796	160796
3.291		161744	77713
3.31		1743536	923070
3.325		1046826	520644
3.352		13014	6271
3.375		4020046	1938069
3.385		8716892	3827493
3.405		278379	96237
3.419		6626459	4316888
3.493		7991921	4994863
3.528		5304423	3232900
3.552		5948849	3217704
3.57		1842578	926547
3.656		6807312	4343167
3.678		2267341	1206461
3.699		2373030	1353083
3.728		1541311	787203
3.745		5839000	3397818
3.786		1968153	1405436
3.833		328293	274585
3.855		1483412	892370
3.878		7733864	4935572
3.902		1613905	948363
3.922		258714	122979
3.941		815488	492308

RT B	Compound B	Height B	Area B
3.976		6230428	4220763
4.01		295324	177852
4.025		490950	315937
4.073		26311	15394
4.086		35382	21282
4.12		538100	612103
4.154		27132	13486
4.178		1741648	1230903
4.22		1181687	713704
4.238		1815008	838076
4.251		3832965	2130331
4.278		2518517	2474192
4.33		14120120	10333480
4.376		206486	191754
4.399		1463509	970648
4.424		3128701	2162819
4.466		16503720	12453210
4.521		6161	4722
4.569		13622760	12604940
4.622		1646870	1379023
4.66		3559004	3115238
4.697		17158290	14326240
4.729		7775587	5277966
4.768		5789442	4315444
4.838		23917	28575
4.867		1899421	1946216
4.919		9989858	7894055
4.942		1464685	934394
4.992		5213865	4656452
5.028		2705064	2079418
5.058		1993598	1678350
5.089		1021043	597076
5.112		23558250	19036000
5.153		485896	365722
5.186		1149591	935103
5.261		6680	5206
5.304		241494	156225
5.327		4488744	3719275
5.372		14912590	16700750
5.471		5721	2987
5.528		713455	620771
5.572		388567	283385
5.596		650104	500659
5.644		2643137	2269549
5.751		5771206	4665465
5.782		302025	223685
5.902		5584	3756
5.95		1604101	1361531
6.001		3520	1874
6.068		3994	2370
6.109	DCB	29174170	25164350
6.285		15531	27649
6.558		20982	18648
6.628		2864	6574
7.128		2185	2279
7.326		1668	5555
7.47		3674	15011
7.842		3070	4425
8.046		1803	2113
8.216		14231	23577
8.325		1324	2270
8.625		1642	3057

AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082

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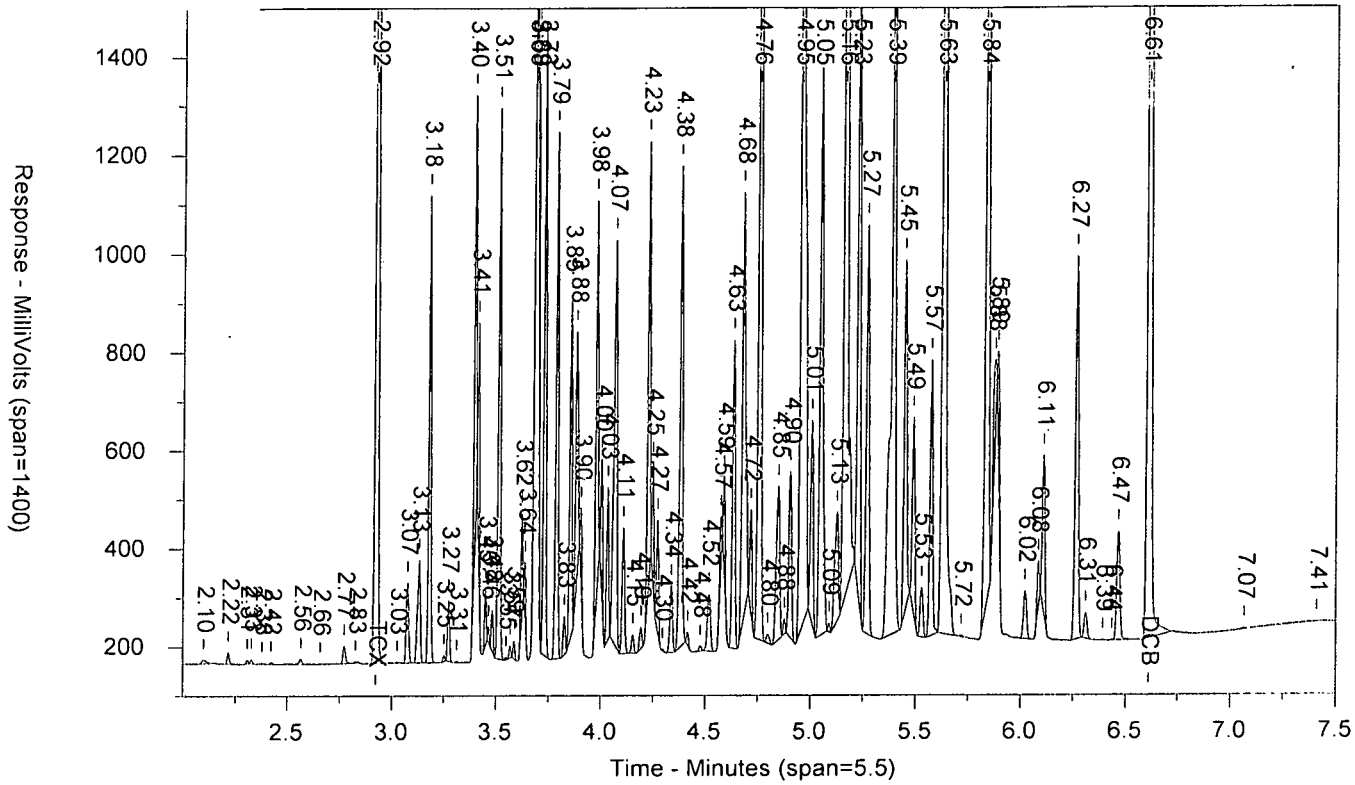

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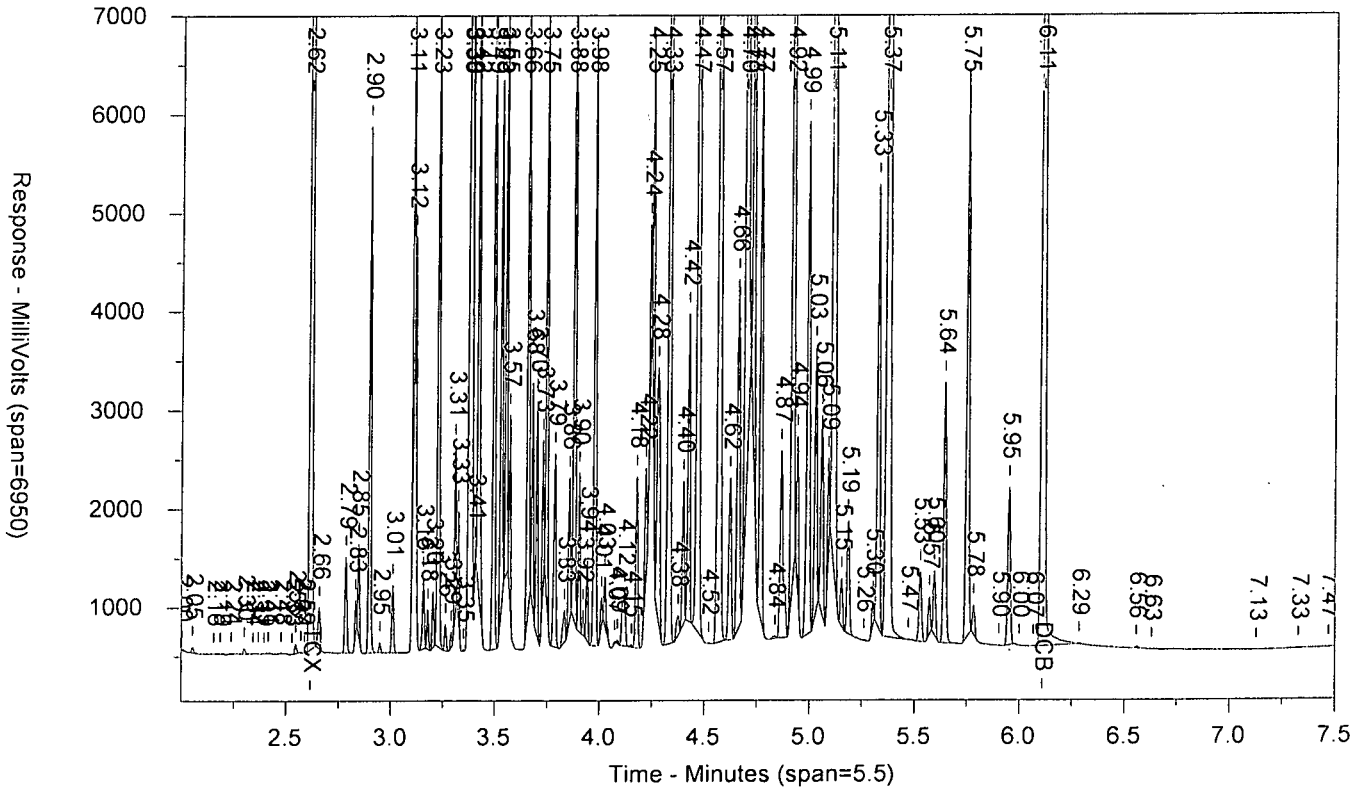

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.922	7055128	63.703	TCX	2.616	43097310	63.864	TCX
6.61	4164353	63.537	DCB	6.109	29174170	62.072	DCB

Files:
Area File: 20pcbs17137001.010.RAW
Area File: 20pcbs17137001B.010.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:23:31 PM
File Reported On: 5/17/2017 at 6:23:44 PM

AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082

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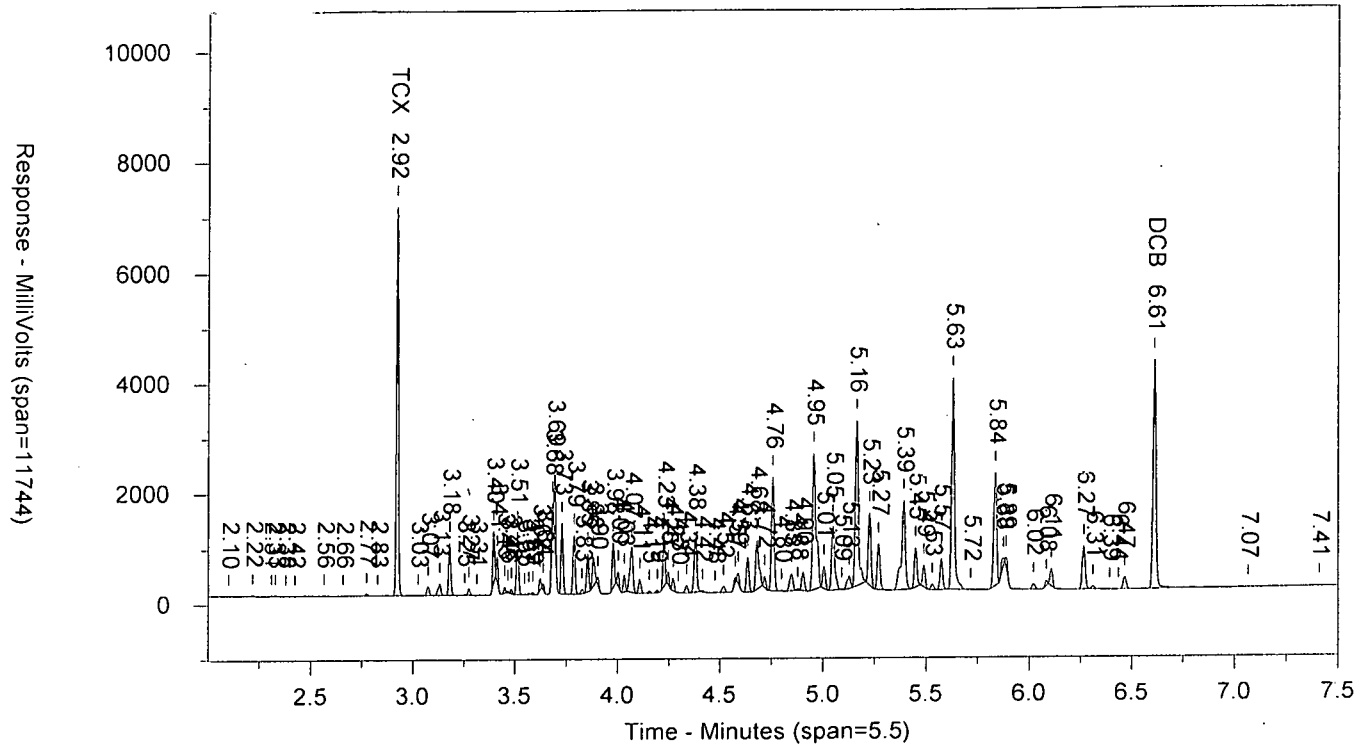

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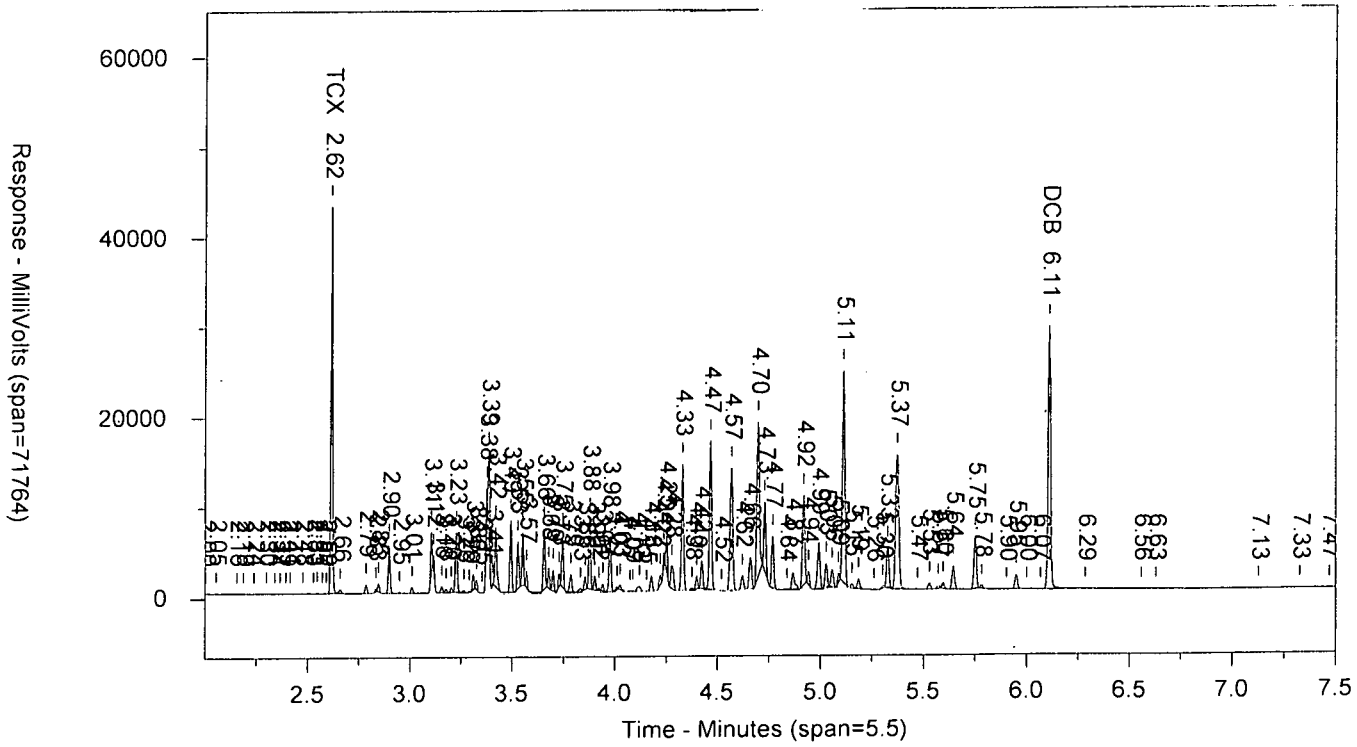

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.011.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		6609	10567
2.217		33392	23006
2.309		9444	5733
2.328		11149	6737
2.377		1428	1987
2.423		3121	2859
2.501		1027	784
2.565		21447	16823
2.658		1125	1121
2.774		47034	41441
2.829		1374	873
2.842		3161	1685
2.923	TCX	9286271	6284122
3.026		2905	1773
3.076		314848	266435
3.133		398581	345261
3.181		1850936	1297698
3.254		17806	8952
3.274		235064	162457
3.313		5871	4095
3.395		1952608	1136559
3.412		905803	463412
3.45		206301	120580
3.466		59372	24203
3.481		152757	91823
3.512		2116157	1574989
3.547		9391	4932
3.567		31376	18976
3.586		73078	48233
3.622		418719	241215
3.637		217449	103256
3.681		869719	527673
3.692		2268970	1192811
3.728		2480108	1843420
3.787		2078035	1598728
3.826		149122	108795
3.853		1364971	997688
3.881		1016343	863152
3.903		295356	152845
3.978		1639692	1155087
4.002		536778	337128
4.032		601917	427260
4.068		1617722	1689137
4.107		488623	403472
4.153		73769	56197
4.192		81542	69333
4.226		1828750	1336092
4.247		447013	252321
4.27		460645	333793
4.337		261811	222973
4.38		1879169	1716426
4.414		48039	31081
4.477		21116	17395
4.518		223789	228972

RT A	Compound A	Height A	Area A
4.574		157777	108201
4.587		357727	226496
4.633		1223780	1081066
4.679		1745922	1892693
4.716		375013	280866
4.755		4090584	3720198
4.799		32163	32821
4.846		623060	678968
4.876		50367	32104
4.902		667361	601729
4.955		5111985	5961543
5.005		813959	713696
5.048		2337167	2477950
5.09		33060	19495
5.127		431279	513572
5.163		5788389	6380167
5.226		2543038	2310811
5.269		1638614	1537112
5.371		125794	179603
5.391		2818184	2401664
5.449		1389810	1312690
5.488		764268	663607
5.529		174754	164928
5.574		1069849	989258
5.63		7643374	7680144
5.714		5479	6423
5.836		4193396	4215172
5.876		212751	326892
5.887		277349	250041
6.022		136160	139066
6.086		135208	103076
6.109		608573	534065
6.216		2019	1504
6.266		1592194	1542332
6.311		100351	94551
6.433		1004	844
6.467		411987	416418
6.612	DCB	5556144	5570106
7.068		3930	5098
7.209		706	438
7.308		302	1937
7.429		666	1362
8.142		734	625

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.011.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		5049	4308
2.054		78421	52686
2.149		6215	7146
2.187		3595	1551
2.242		12075	25298
2.3		112729	74905
2.363		4237	2894
2.413		7446	8531
2.477		5959	10803
2.529		9038	7025
2.547		132687	89302
2.572		20993	10970
2.59		2901	1521
2.616	TCX	56564200	33476620
2.659		760520	569812
2.76		1625	811
2.786		1928872	1287484
2.833		406980	184745
2.847		1785393	955540
2.899		10114640	6038160
2.949		137415	79915
2.986		3036	1686
3.01		1277752	800441
3.086		4406	1880
3.106		12407000	12141120
3.157		1430225	895633
3.178		755437	427973
3.203		1084799	600889
3.227		12762260	8394360
3.264		535063	315213
3.292		200253	94206
3.31		3586924	1804541
3.326		2083838	989159
3.352		23936	11199
3.376		7474550	3448850
3.385		17491340	7291536
3.406		446992	180030
3.419		13825460	8804595
3.493		16489430	9770370
3.528		10268590	6283276
3.551		11574780	6313338
3.569		3672657	1834353
3.622		5465	2088
3.655		12975370	8475472
3.677		4609047	2421276
3.699		4726709	2648968
3.728		3059692	1547909
3.744		11542480	6666600
3.785		3866337	2709304
3.833		602263	532183
3.855		3034871	1699028
3.877		14893850	9651443
3.902		3169828	1844005
3.921		459374	220397

RT B	Compound B	Height B	Area B
3.94		1600388	970787
3.975		12499880	8218656
4.009		551214	339682
4.025		912477	586860
4.071		27349	16924
4.086		94221	58298
4.112		111118	103256
4.119		439844	220888
4.153		43741	21283
4.177		3484572	2400744
4.218		2586604	1551717
4.237		3416198	1720834
4.251		8527515	4475124
4.277		4525069	4850387
4.328		27096230	20268580
4.375		384726	359808
4.398		2789599	1881516
4.423		5986391	4225441
4.466		32954410	24649070
4.569		26601510	24940970
4.621		3259109	2670662
4.659		7204695	6046917
4.696		35179360	28493330
4.728		14967790	10350100
4.767		10816790	8573390
4.835		47810	50734
4.866		3189371	2305444
4.883		331778	167160
4.918		20673490	15787180
4.941		2861660	1808256
4.992		10473700	9119623
5.028		5218651	4089662
5.057		3806092	3220714
5.089		1952650	1120329
5.112		47355350	39136040
5.153		954822	715299
5.185		1917115	1572556
5.226		15145	7048
5.303		441286	291250
5.326		8458221	7328032
5.372		31609230	34026340
5.472		10638	6050
5.527		1014981	863672
5.572		748031	565380
5.596		852197	644466
5.644		5199789	4391417
5.751		11296540	9233591
5.782		600846	427308
5.901		6961	5270
5.95		2781653	2538161
6.066		6370	5053
6.109	DCB	37969230	33247000
6.217		9009	5089
6.241		10288	7613
6.284		22105	21271
6.56		26445	22590
6.633		2915	6339
6.732		4279	3472
7.128		2616	3758
7.245		2319	2110
7.31		3752	4527
7.44		1722	3963
7.468		3288	5127
7.606		2539	5191
7.718		3630	11180
8.215		15362	25469

RT B	Compound B	Height B	Area B
8.462		2678	7052

AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082

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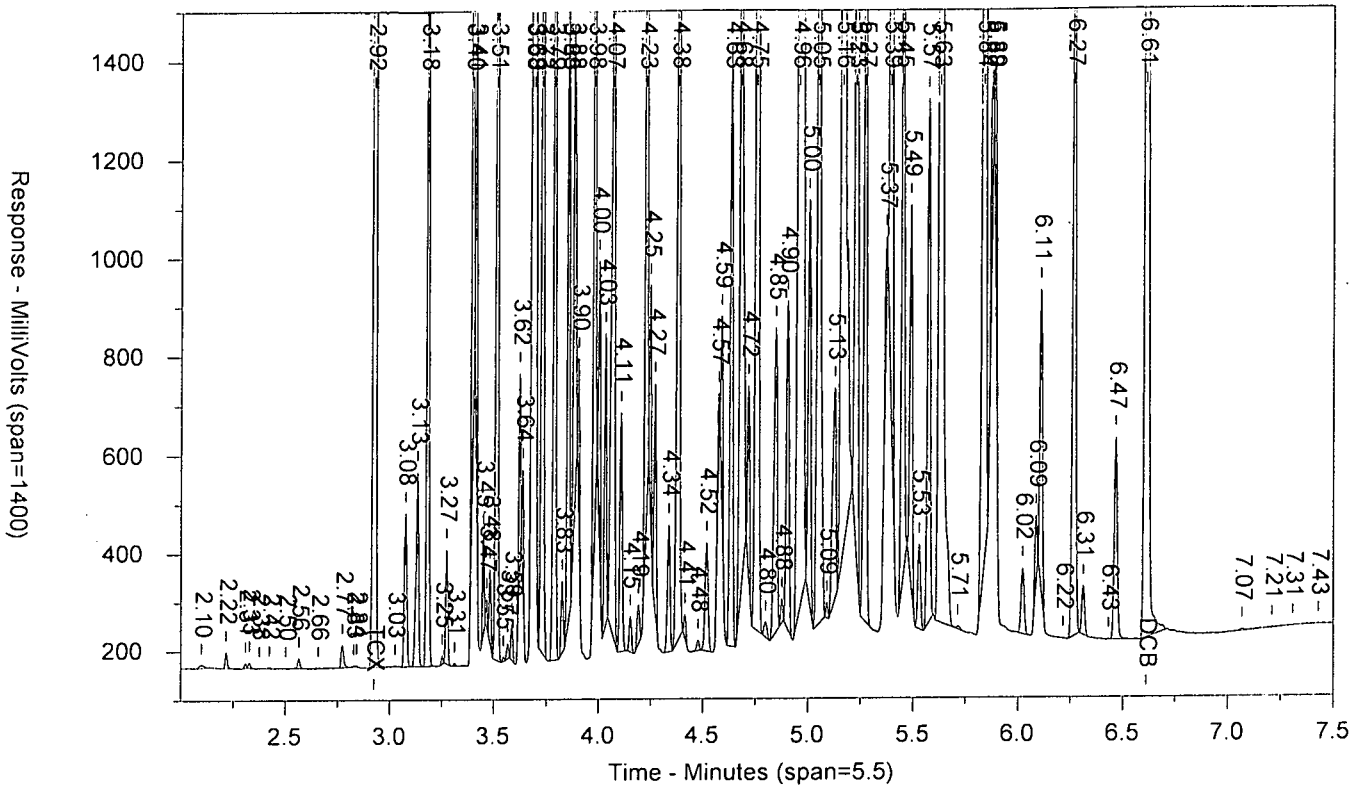

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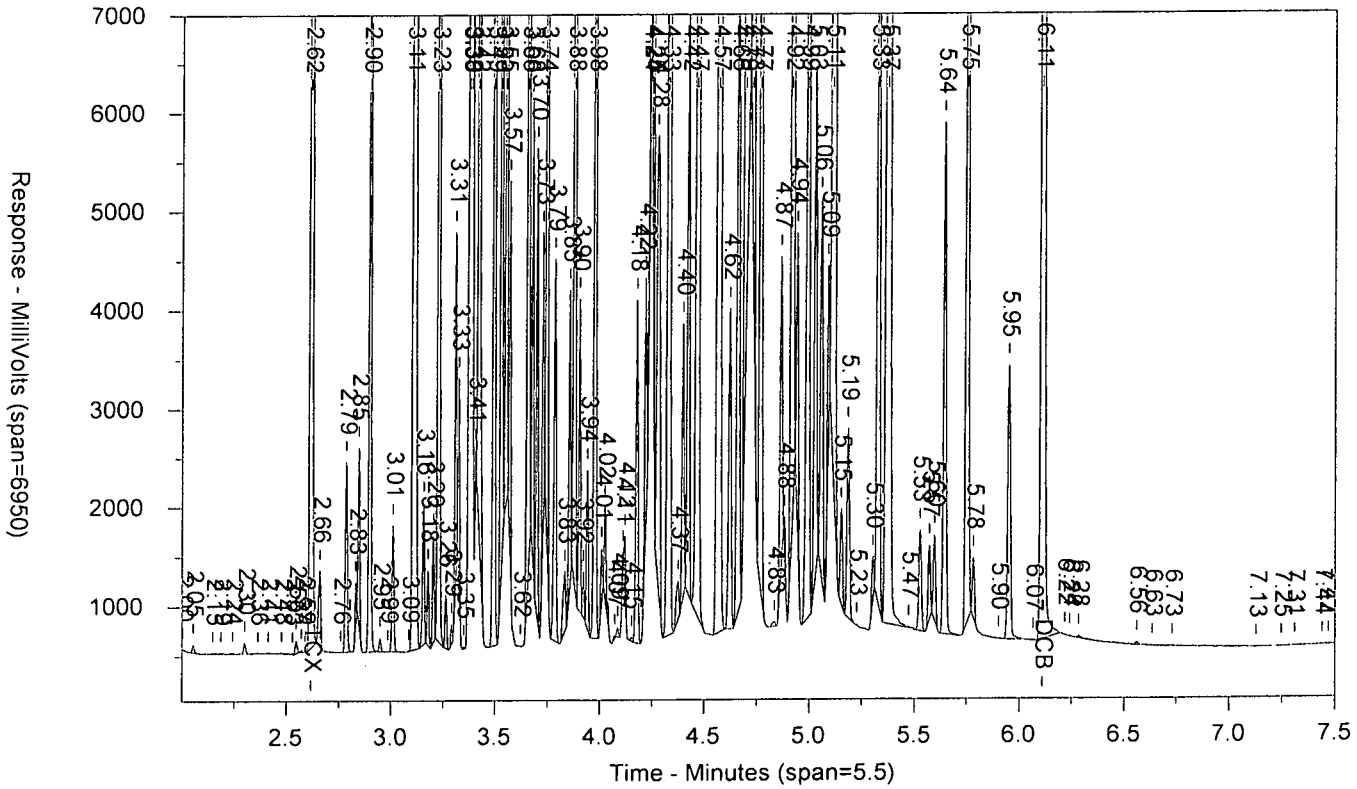

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9286271	82.662	TCX	2.616	56564200	82.637	TCX
6.612	5556144	83.221	DCB	6.109	37969230	79.504	DCB

Files:
Area File: 20pcbs17137001.011.RAW
Area File: 20pcbs17137001B.011.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:34:58 PM
File Reported On: 5/17/2017 at 6:35:07 PM

AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082

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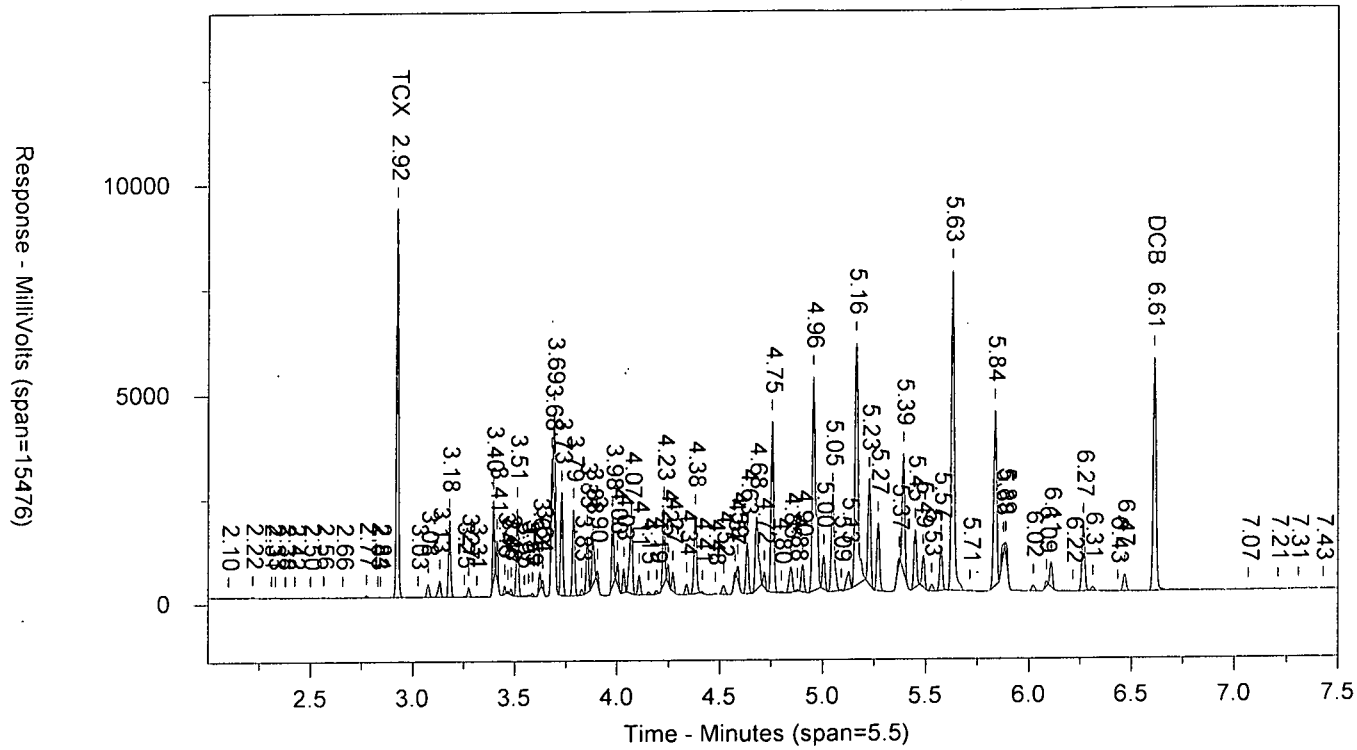

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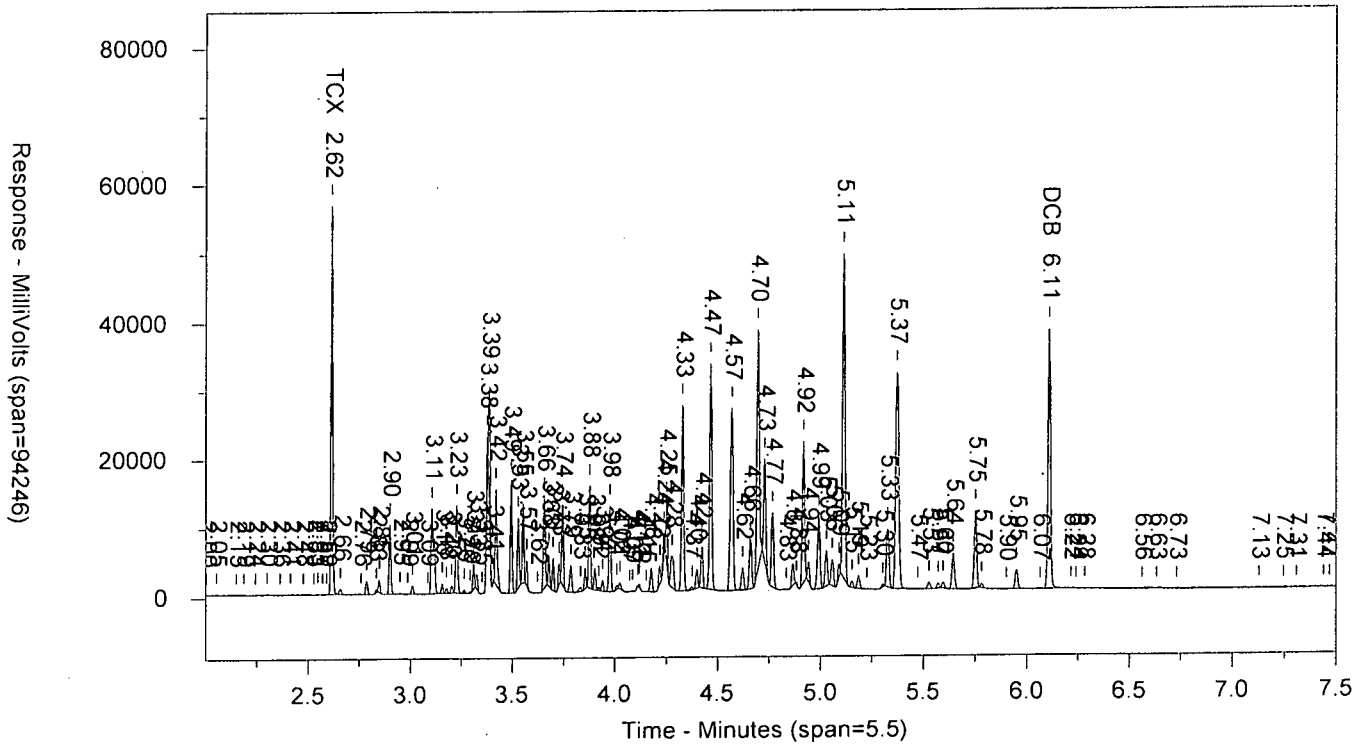

LANCASTER LABORATORIES

Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.012.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		9420	13791
2.139		2695	3192
2.218		1548	1231
2.309		17593	12805
2.379		1971	2311
2.424		3230	2863
2.551		1637	1231
2.661		1205	938
2.774		36807	31385
2.828		3966	3504
2.923	TCX	460974	306632
3.075		3648	3042
3.123		6576	6443
3.181		22198	17757
3.252		1136	614
3.274		4080	2899
3.395		66539	40572
3.412		20147	9344
3.449		3730	2222
3.481		1322	871
3.512		54242	40738
3.586		1865	1282
3.621		8696	5174
3.68		51110	25975
3.691		38092	22196
3.727		63771	48265
3.785		64312	49370
3.826		8233	5557
3.853		120639	88677
3.88		79453	62835
3.902		23382	13177
3.977		134537	99753
4.001		39255	25112
4.032		47204	33667
4.067		111038	105185
4.107		37712	29886
4.152		2433	1456
4.192		11015	9366
4.225		107029	76255
4.246		125818	84164
4.269		138872	101155
4.294		4561	2737
4.336		13002	12120
4.376		132507	109784
4.397		33005	17180
4.414		19711	11509
4.452		1847	1154
4.477		7483	5655
4.519		39651	38270
4.572		56844	48554
4.602		32615	24171
4.633		96997	83841
4.678		2597	2559
4.718		37162	33180

RT A	Compound A	Height A	Area A
4.755		9074	10642
4.805		8310	7753
4.847		63827	59798
4.927		5810	7266
4.954		5586	3714
4.972		4513	2689
5.047		61112	61478
5.087		1620	1175
5.117		3936	4439
5.163		16794	16115
5.202		1956	1480
5.224		2190	1687
5.269		1559	1776
5.375		3289	2838
5.433		1011	1006
5.529		4227	4690
5.573		3067	3196
5.63		4080	3068
5.65		2861	2189
5.746		1379	1131
5.835		5260	5769
5.894		1611	2470
5.988		1174	1286
6.022		5552	5854
6.087		5249	4867
6.107		1396	850
6.222		820	2372
6.266		2133	2204
6.332		2179	2208
6.463		4410	4390
6.506		1274	1555
6.611	DCB	287278	315972
7.303		1082	62618
8.242		408	493
8.452		765	792

LANCASTER LABORATORIES

Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.012.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		13837	11521
2.158		6038	4406
2.202		8846	4381
2.242		14742	23404
2.301		2489	2659
2.343		1735	1225
2.413		10480	14250
2.478		5171	3746
2.547		107455	84633
2.615	TCX	2792628	1632223
2.659		8028	5082
2.702		3908	6430
2.786		19090	14055
2.833		32219	16276
2.847		15034	9075
2.899		125696	93234
2.949		7374	4768
3.009		24675	17475
3.105		423146	365759
3.157		16966	9686
3.179		14715	11204
3.202		12530	6411
3.227		335335	221142
3.266		19372	12424
3.291		10944	5281
3.31		70444	35061
3.325		81426	41767
3.354		3156	1550
3.375		335505	152097
3.384		346830	148681
3.405		72833	31513
3.418		306693	170510
3.493		508469	317825
3.527		865156	525161
3.551		791158	438826
3.569		268385	136027
3.598		4439	3854
3.654		1060079	673747
3.677		310794	170971
3.698		349791	206025
3.727		161321	82064
3.743		747212	439649
3.785		284286	199864
3.832		57506	48559
3.854		579818	360234
3.876		1406615	889202
3.901		973126	605228
3.921		85680	41372
3.939		72415	39043
3.975		433187	300332
4.01		700668	535716
4.038		345500	197367
4.074		18716	12517
4.084		23521	11260

RT B	Compound B	Height B	Area B
4.119		256598	189309
4.176		409784	311064
4.209		247485	165484
4.237		637437	466741
4.275		13398	12403
4.33		267772	251235
4.366		57493	42078
4.398		392834	292850
4.422		12899	6737
4.441		5257	2617
4.465		55036	34933
4.49		33382	23215
4.515		9877	10037
4.565		71770	75357
4.616		365100	279425
4.644		4461	2229
4.66		10002	10245
4.696		106538	88952
4.728		8227	4237
4.768		10978	11681
4.842		12128	16920
4.865		2204	1165
4.884		3799	2997
4.917		19274	13880
4.941		33457	25388
4.989		10823	9826
5.026		5075	4034
5.061		14250	11408
5.088		13709	8898
5.111		35264	28947
5.185		32174	26845
5.327		10781	8032
5.346		4032	1904
5.373		23360	23338
5.444		5960	5060
5.527		41637	36055
5.595		45547	44880
5.644		19132	22733
5.749		11345	11294
5.832		2688	2458
5.948		29788	26671
6.109	DCB	2026870	1878598
7.193		1996	1167
7.365		1771	6866
7.437		2156	4853
7.921		1763	1750
8.218		15936	30555

AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082

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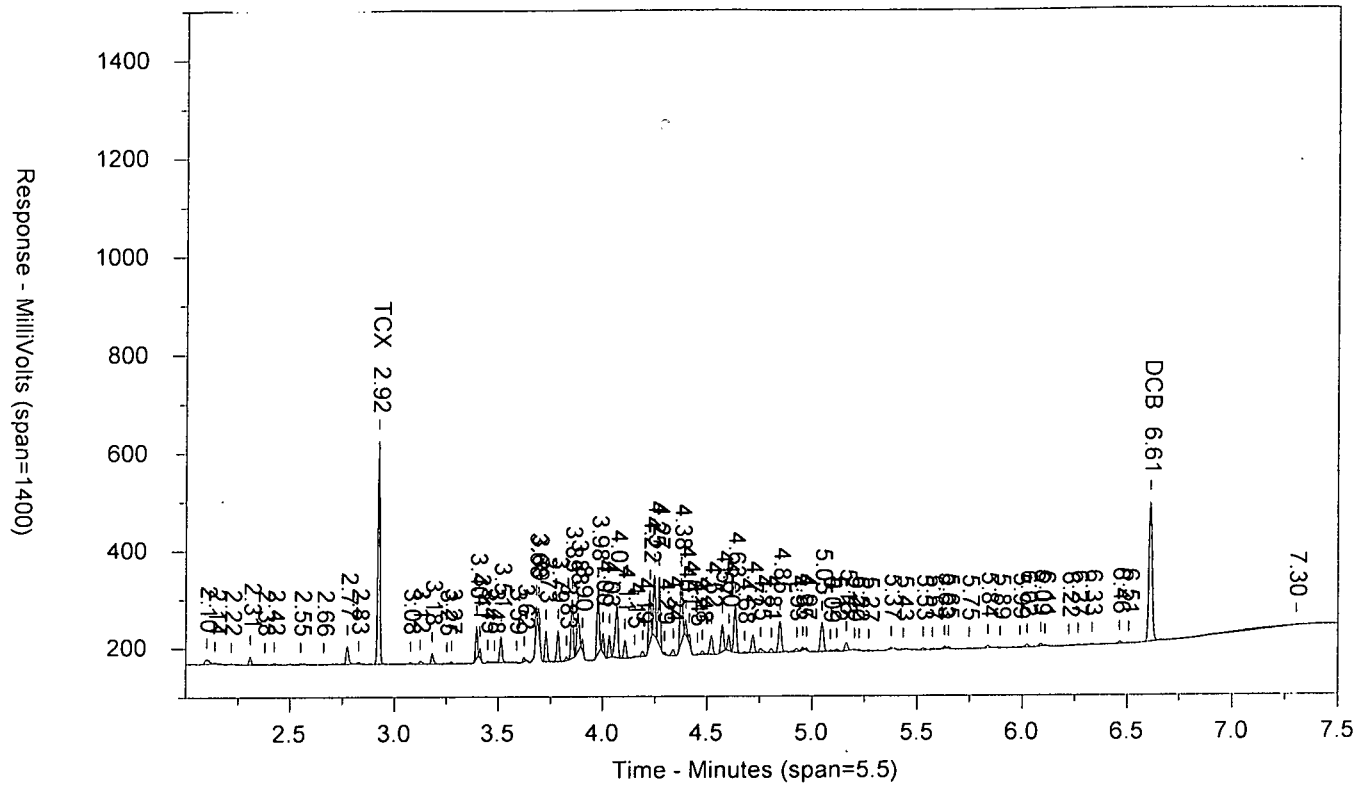

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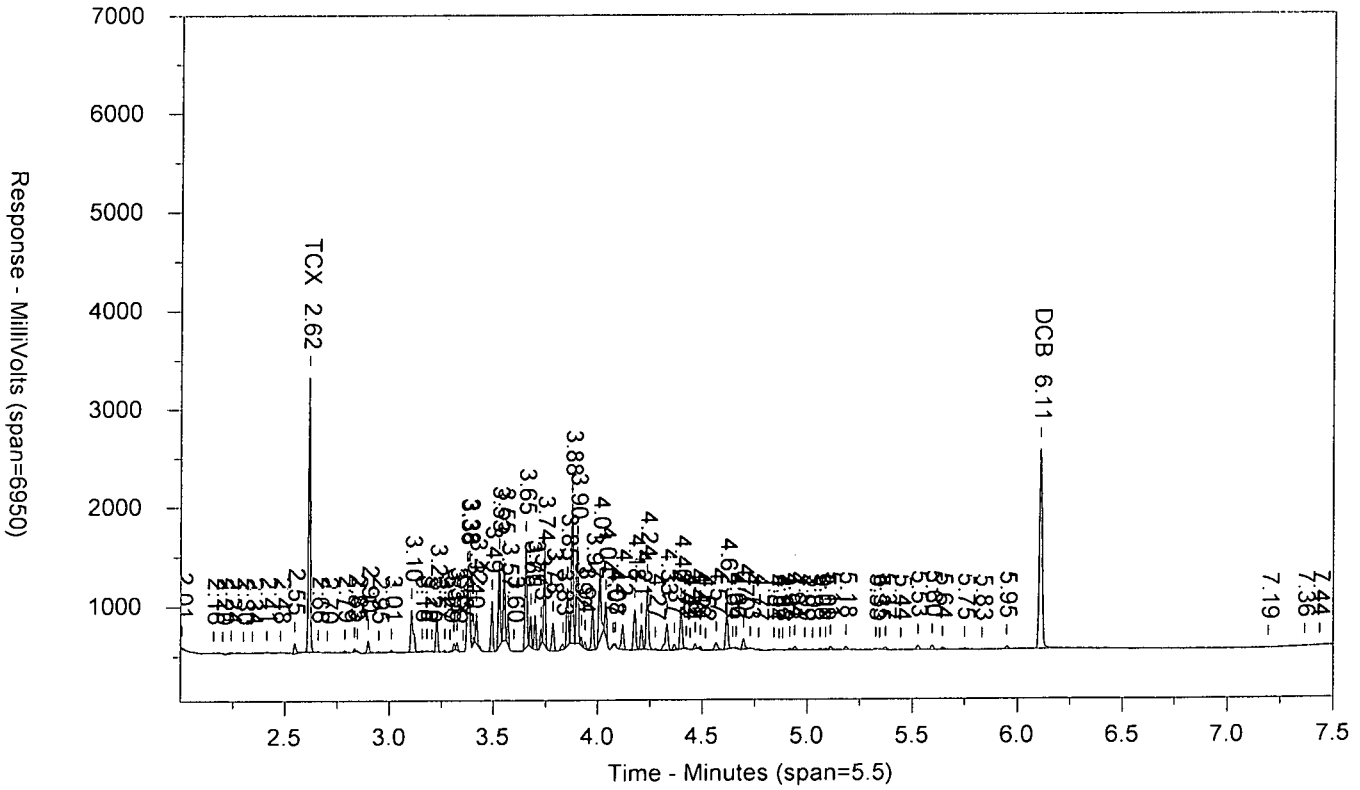

LANCASTER LABORATORIES

Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	460974	4.056	TCX	2.615	2792628	4.04	TCX
6.611	287278	4.175	DCB	6.109	2026870	4.16	DCB

Files:
Area File: 20pcbs17137001.012.RAW
Area File: 20pcbs17137001B.012.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:46:29 PM
File Reported On: 5/17/2017 at 6:46:37 PM

AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082

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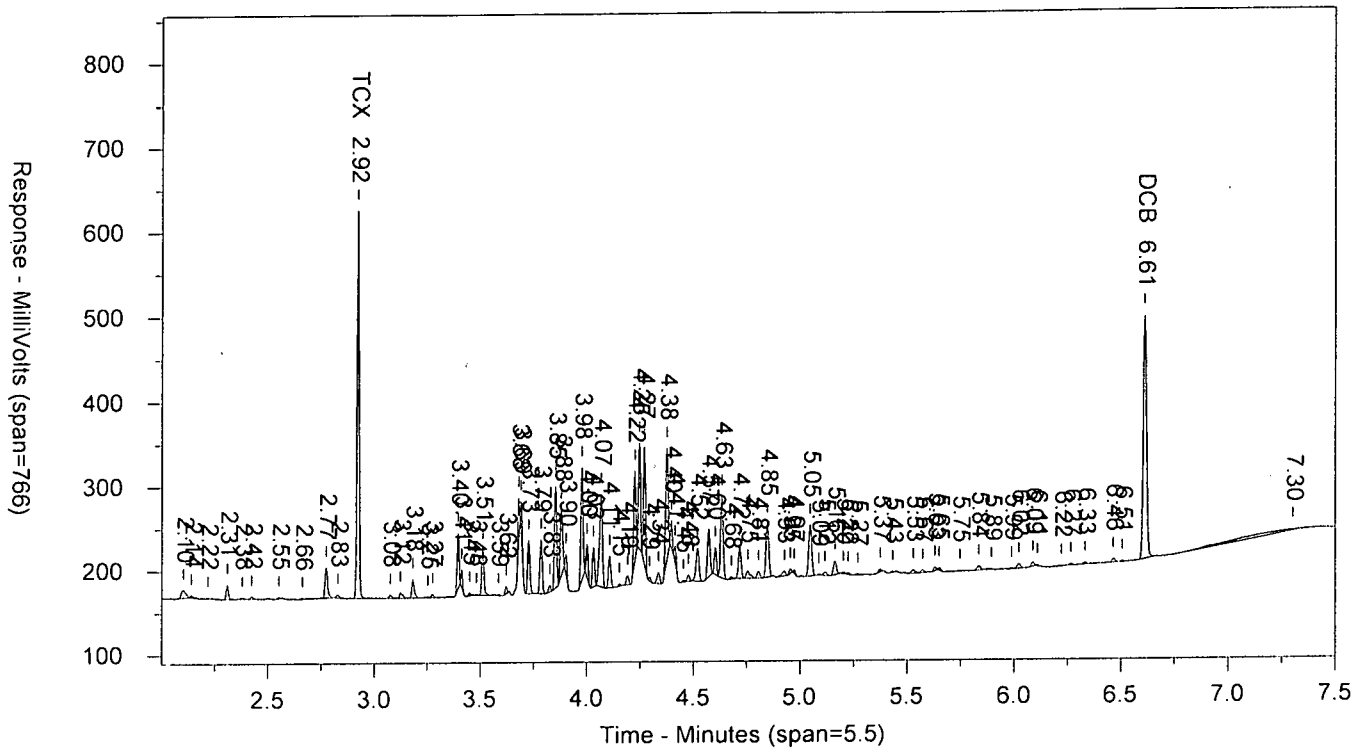

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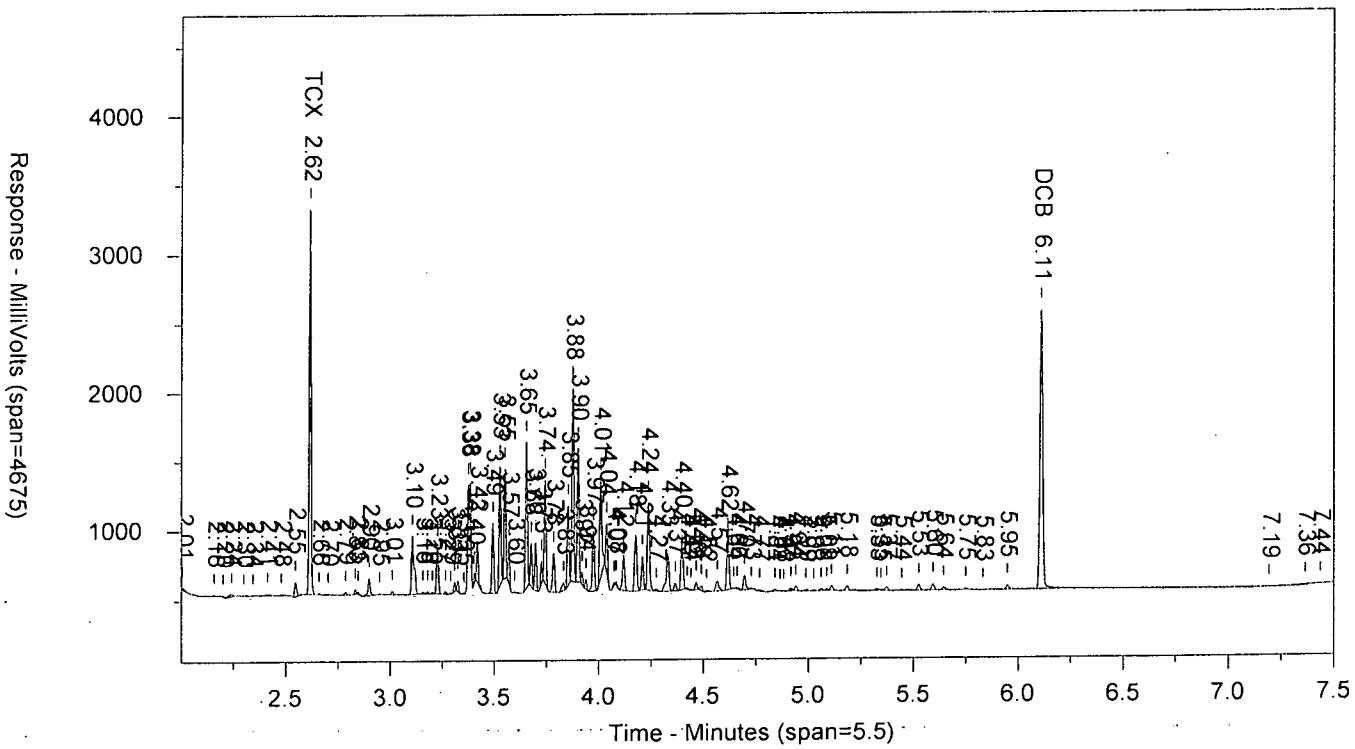

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.013.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		8863	12774
2.217		7883	6283
2.309		17058	10884
2.328		2033	1139
2.378		1826	2076
2.424		3220	2724
2.501		783	907
2.55		930	688
2.658		1162	990
2.774		36945	32374
2.828		4181	4053
2.923	TCX	2278533	1522250
3.075		7340	6495
3.122		33148	25086
3.181		44509	33093
3.253		5064	2971
3.273		7960	5117
3.394		120669	76145
3.411		37077	18184
3.448		7807	4539
3.481		2419	1499
3.511		106353	78468
3.567		7654	4597
3.584		2856	1725
3.62		19558	10913
3.635		5024	2112
3.679		85107	46887
3.69		94974	49013
3.726		121620	95712
3.784		118635	98850
3.825		18392	12179
3.852		225584	167928
3.879		152868	121488
3.902		49125	26753
3.977		264307	190492
4		76727	49035
4.03		92742	66611
4.066		215342	203852
4.107		76787	59738
4.152		6335	4535
4.191		21383	18438
4.224		204920	142782
4.245		256218	163739
4.268		253751	196866
4.294		3248	1885
4.335		26263	23979
4.374		246079	210227
4.396		61552	31650
4.412		41504	22841
4.452		3815	2534
4.476		15100	11170
4.518		78122	70692
4.571		106928	94912
4.602		63905	46638

RT A	Compound A	Height A	Area A
4.631		183459	160259
4.677		4600	4351
4.717		73920	64288
4.754		16219	20030
4.805		17218	16019
4.846		121956	114282
4.877		5010	3513
4.925		10589	13229
4.954		10041	7430
4.971		8133	4912
5.003		2019	1505
5.046		118261	113310
5.088		2502	1962
5.117		14023	14486
5.162		28608	28155
5.202		2650	1689
5.223		3861	3160
5.266		2559	2616
5.373		11513	17369
5.448		3104	4466
5.527		12100	12065
5.573		5646	4737
5.629		5386	3604
5.649		15739	13504
5.833		9131	10003
5.889		3152	5333
5.983		936	670
6.021		25946	25612
6.085		23482	20783
6.265		3900	4752
6.465		17052	17693
6.611	DCB	1306080	1375143
7.07		1067	3992
7.352		946	23922
7.817		619	376
8.151		693	492
8.421		871	5862

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL.1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.013.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		12674	9588
2.053		21106	15095
2.119		1803	1366
2.157		5401	4043
2.24		15572	24720
2.394		1693	1038
2.411		5254	5952
2.477		6016	4726
2.547		108403	85248
2.616	TCX	13624770	8113178
2.659		13338	6855
2.786		47617	34058
2.833		187138	143484
2.898		246549	165125
2.949		35799	21302
3.009		50331	30714
3.105		793582	694356
3.156		44860	25862
3.178		24210	15005
3.203		22217	12059
3.226		650909	426639
3.264		31310	18749
3.291		60358	30226
3.309		146093	73412
3.324		94903	45633
3.353		3200	1295
3.374		663878	308601
3.384		712787	278776
3.404		142940	60947
3.417		596263	339440
3.492		978927	610801
3.526		1603513	1002633
3.55		1476024	831493
3.568		521860	255818
3.653		2040152	1292816
3.676		584327	317512
3.697		667585	396289
3.726		305199	152756
3.743		1446082	847009
3.783		548478	388253
3.831		113492	94019
3.853		1160536	697154
3.876		2750551	1739992
3.901		1976571	1194788
3.92		170095	81575
3.938		139618	76284
3.974		825765	569739
4.009		1379956	1038199
4.037		716173	397922
4.084		116435	117795
4.119		498679	363146
4.15		6017	2857
4.175		815248	605941
4.208		458027	317281

RT B	Compound B	Height B	Area B
4.236		1230562	895747
4.274		24713	24306
4.33		506491	475448
4.365		123636	86474
4.397		795399	574260
4.421		23369	11593
4.439		29019	17037
4.464		104496	65148
4.489		61354	42980
4.526		3070	4331
4.564		133747	134939
4.615		713273	566649
4.667		74529	74137
4.696		190862	162598
4.727		15875	7286
4.742		13738	7063
4.765		17366	15290
4.841		11660	18085
4.866		3861	1897
4.883		7770	4665
4.916		35598	25425
4.94		64428	48436
4.989		20000	20841
5.026		7429	5536
5.062		60903	49330
5.088		24377	15902
5.111		60332	51667
5.185		149495	128826
5.305		1869	1361
5.326		28609	24579
5.373		54171	54842
5.443		7885	9255
5.526		178097	154925
5.595		188546	169338
5.644		69006	57783
5.751		24891	20941
5.95		119810	100049
5.983		3382	1976
6.108	DCB	9301134	8333380
6.473		1879	2574
6.558		7280	10450
6.716		1828	2434
7.027		2162	5238
7.496		2036	23563
7.722		2575	5850
7.778		2456	4586
8.216		16487	29376
8.412		1911	2075
8.497		1270	1150

AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082

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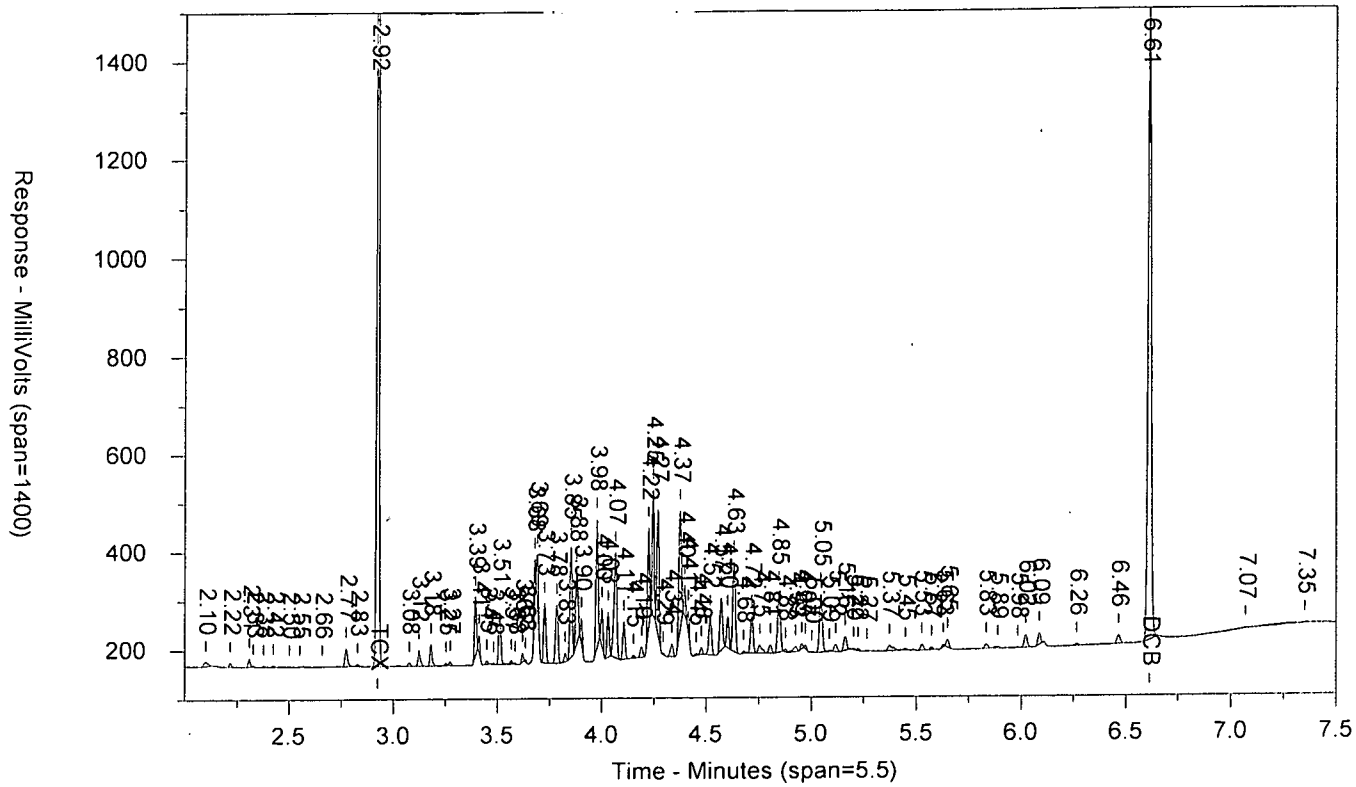

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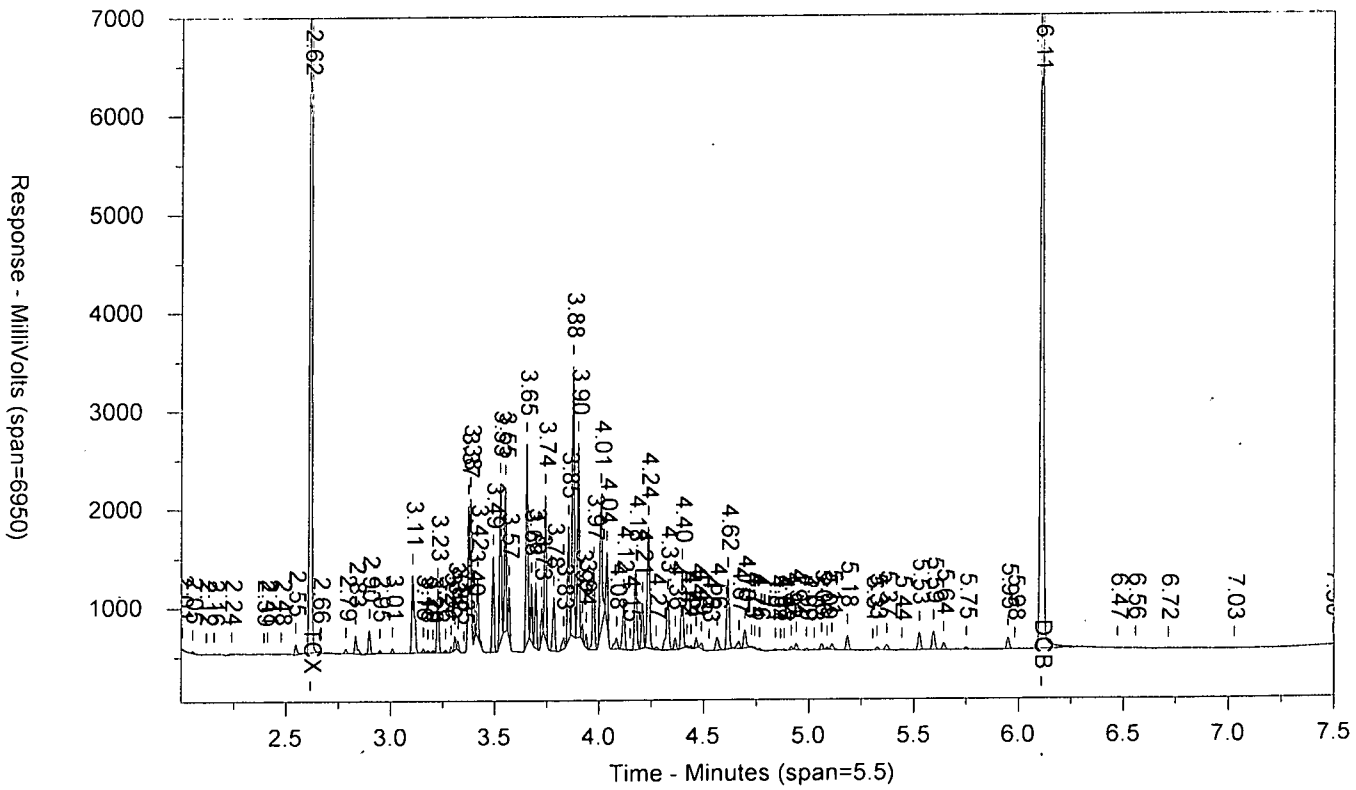

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2278533	20.05	TCX	2.616	13624770	19.709	TCX
6.611	1306080	18.979	DCB	6.108	9301134	19.092	DCB

Files:
Area File: 20pcbs17137001.013.RAW
Area File: 20pcbs17137001B.013.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:57:54 PM
File Reported On: 5/17/2017 at 6:58:03 PM

AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082

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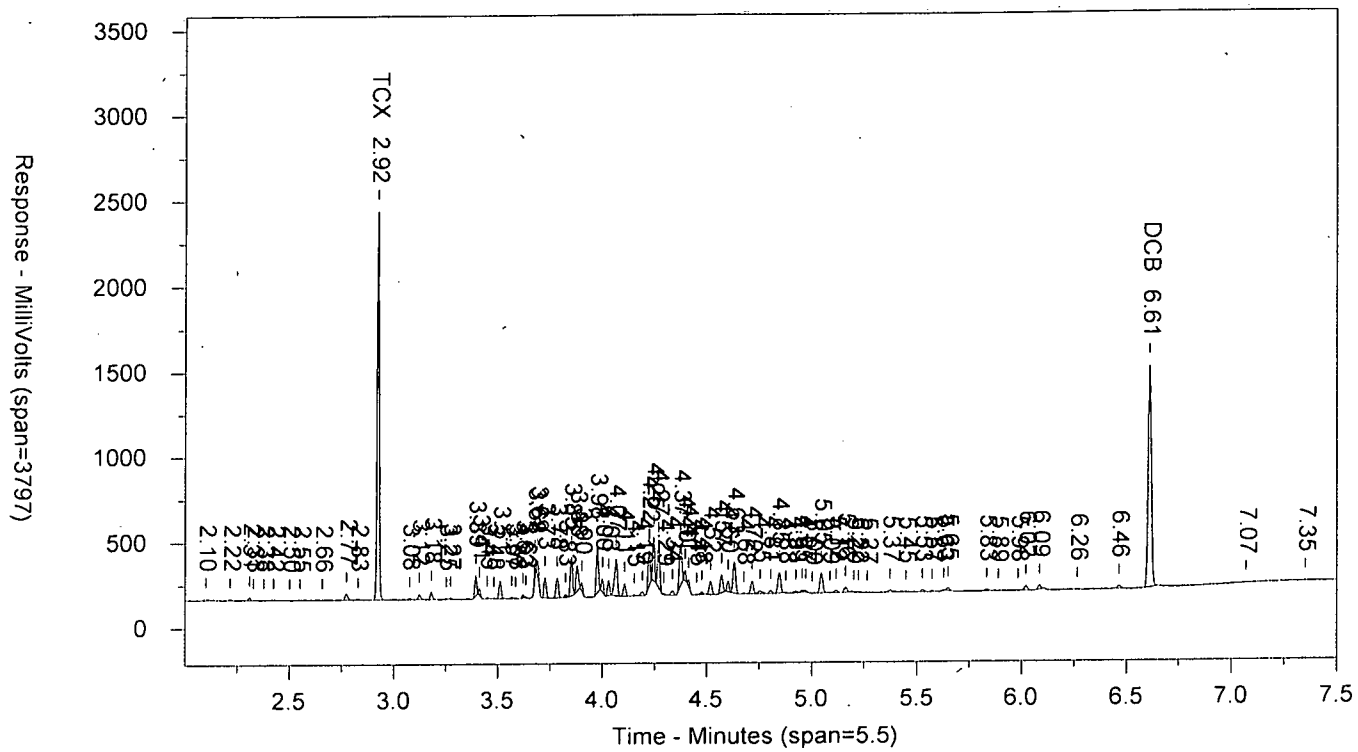

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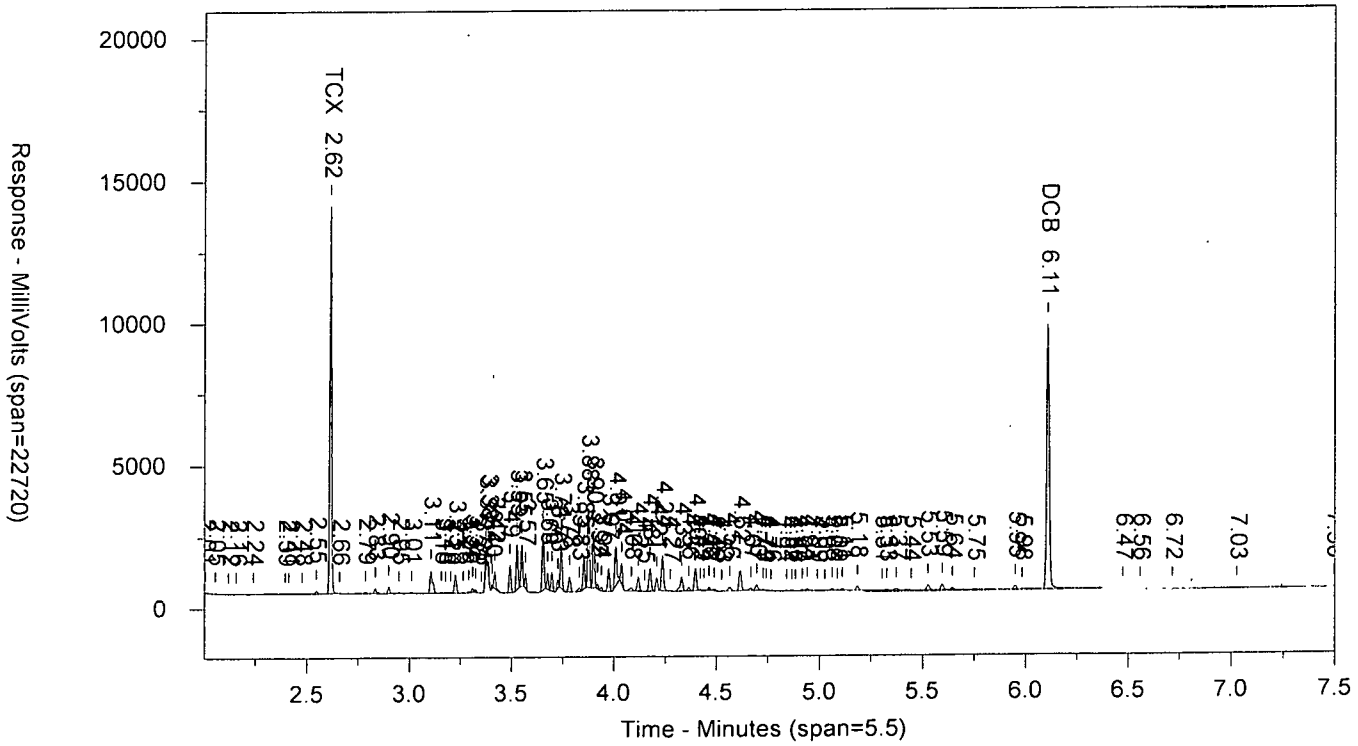


LANCASTER LABORATORIES

Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.014.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.098		7336	16981
2.217		16226	11825
2.309		14041	8787
2.327		5347	2999
2.375		1209	1416
2.423		4191	3406
2.447		2452	1636
2.564		2513	3753
2.656		1085	867
2.773		40534	35222
2.827		5129	4482
2.923	TCX	4587250	3123811
3.025		1452	765
3.075		16285	13493
3.122		64679	49669
3.18		84570	61014
3.252		9077	5367
3.273		15100	9711
3.359		990	627
3.394		222033	134027
3.411		65503	33182
3.448		14799	8715
3.464		2958	1222
3.48		4553	2542
3.511		195244	146100
3.566		16698	9470
3.584		6998	3893
3.62		36082	21548
3.635		8490	3848
3.679		150048	81391
3.69		171370	89178
3.726		227162	179863
3.784		225668	184826
3.825		35371	24172
3.853		411007	305360
3.88		273118	220845
3.901		84653	46384
3.976		487480	354434
4		131154	86357
4.031		170033	123894
4.066		402590	385907
4.106		135862	112361
4.151		13782	10351
4.191		39839	35741
4.225		381910	269549
4.246		471790	310905
4.269		537758	385660
4.335		49148	46219
4.375		480448	402574
4.396		122790	64051
4.412		68963	40370
4.453		8018	5090
4.476		27833	20987
4.519		138344	130249

RT A	Compound A	Height A	Area A
4.571		203806	178929
4.602		113417	86670
4.631		356304	303032
4.676		6981	4877
4.716		132384	120010
4.754		31226	38211
4.805		32595	30425
4.846		218179	213403
4.876		9982	6739
4.926		18658	22653
4.955		21448	14973
4.971		13512	9218
5.003		4362	3659
5.046		215397	213546
5.09		5162	3796
5.117		25950	26481
5.163		58120	52846
5.202		3963	2271
5.225		8187	6102
5.269		4610	3850
5.373		12843	11039
5.448		5089	5086
5.528		20621	20740
5.573		11315	9751
5.598		1746	1108
5.629		11015	7814
5.649		27066	22025
5.769		457	847
5.834		15684	17087
5.889		6216	10197
5.988		2220	2235
6.021		46753	45496
6.086		43923	37336
6.107		8617	5621
6.265		7398	7925
6.334		906	757
6.465		36413	36015
6.611	DCB	2842436	2848658
7.073		1611	5730
7.306		716	12103
8.405		918	1260

LANCASTER LABORATORIES

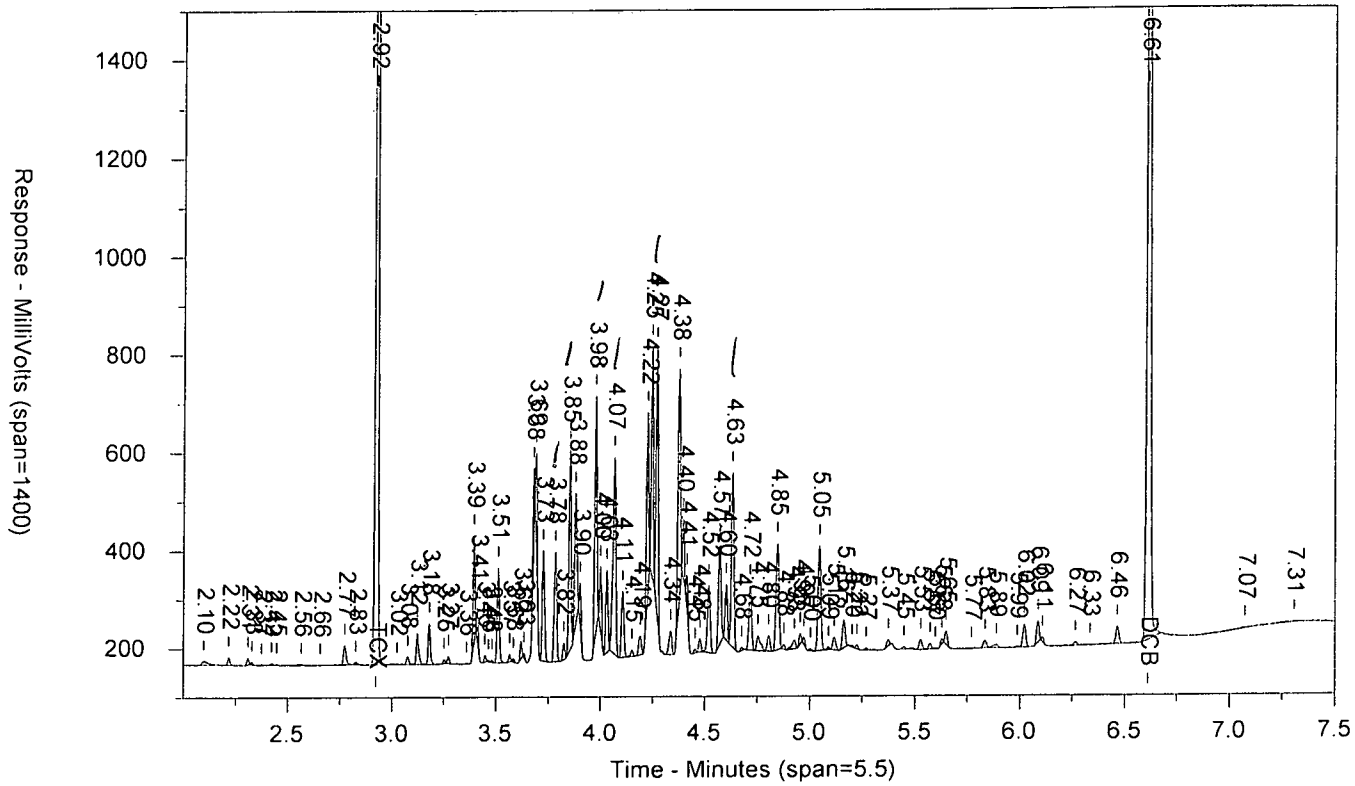
Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.014.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3444	3863
2.054		44006	39640
2.116		6698	12075
2.156		10009	36453
2.239		14121	22654
2.271		3363	2509
2.301		6009	5309
2.339		2180	1411
2.412		6880	7806
2.483		8694	33895
2.547		115743	101911
2.615	TCX	28617680	16447440
2.658		23928	12271
2.705		5148	5861
2.786		105357	73269
2.833		319001	169103
2.846		37322	13877
2.898		455497	294677
2.949		69823	40519
2.987		4082	2600
3.009		95274	57273
3.105		1482590	1268741
3.156		88139	52558
3.178		49359	28545
3.202		41303	21853
3.226		1188578	790716
3.263		67566	39850
3.291		119484	62255
3.309		268702	133945
3.324		181149	88636
3.352		3110	1589
3.374		1301277	588286
3.384		1391605	540213
3.404		255749	106841
3.417		1129541	652184
3.492		1839733	1141639
3.526		3190942	1861196
3.55		2867077	1557964
3.568		937692	477721
3.653		3901099	2435925
3.675		1060771	576854
3.697		1216937	734922
3.726		588049	301808
3.742		2796950	1616864
3.783		1018226	724635
3.831		207629	179442
3.853		2172541	1309647
3.876		5354666	3322076
3.9		3809695	2298570
3.919		300053	148653
3.938		256799	142934
3.974		1511710	1058953
4.009		2618636	1978975
4.037		1427806	791296

RT B	Compound B	Height B	Area B
4.084		214352	187210
4.119		885113	676623
4.151		10838	5457
4.175		1532848	1152285
4.207		880973	598004
4.236		2374166	1688450
4.274		47048	45713
4.329		929146	892012
4.364		231903	171419
4.397		1505291	1089909
4.42		43909	21586
4.439		52539	30294
4.463		194631	125097
4.489		118363	82224
4.518		2374	2301
4.564		246709	245923
4.616		1462199	1121668
4.667		144890	144677
4.695		359720	313195
4.727		30293	13922
4.741		22855	12165
4.765		28910	22463
4.823		4344	4790
4.838		4921	2650
4.865		8529	4447
4.882		12522	8340
4.917		62485	46529
4.94		122641	91421
4.99		36666	38891
5.027		14333	10858
5.061		116500	94770
5.088		45383	29582
5.11		119537	99019
5.157		3951	2732
5.184		237588	208109
5.302		2565	1929
5.325		56276	45290
5.373		106772	107999
5.444		15439	13148
5.526		319976	275686
5.594		339332	304690
5.643		126665	108124
5.749		48445	40242
5.779		2461	2571
5.903		5207	4533
5.949		237481	203301
5.98		5541	3743
6.003		3923	2475
6.108	DCB	19790550	16876110
6.242		4497	1796
6.559		14308	12962
7.325		1538	3468
7.445		1853	4071
7.581		1203	4806
8.216		14497	24913

AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.014.RAW



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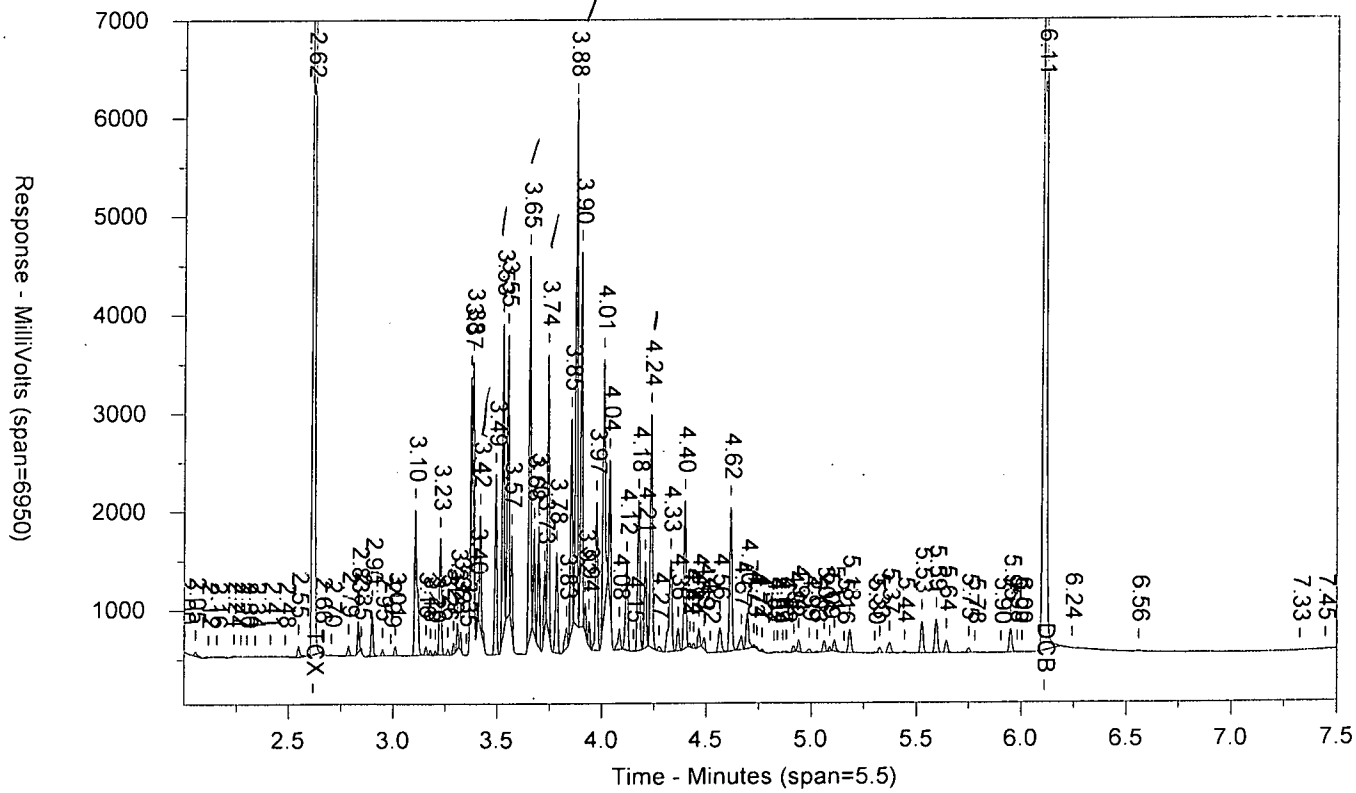

LANCASTER LABORATORIES

Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4587250	40.366	TCX	2.615	28617680	41.396	TCX
6.611	2842436	41.305	DCB	6.108	19790550	40.623	DCB

Files:
Area File: 20pcbs17137001.014.RAW
Area File: 20pcbs17137001B.014.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:09:14 PM
File Reported On: 5/17/2017 at 7:09:25 PM

AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082

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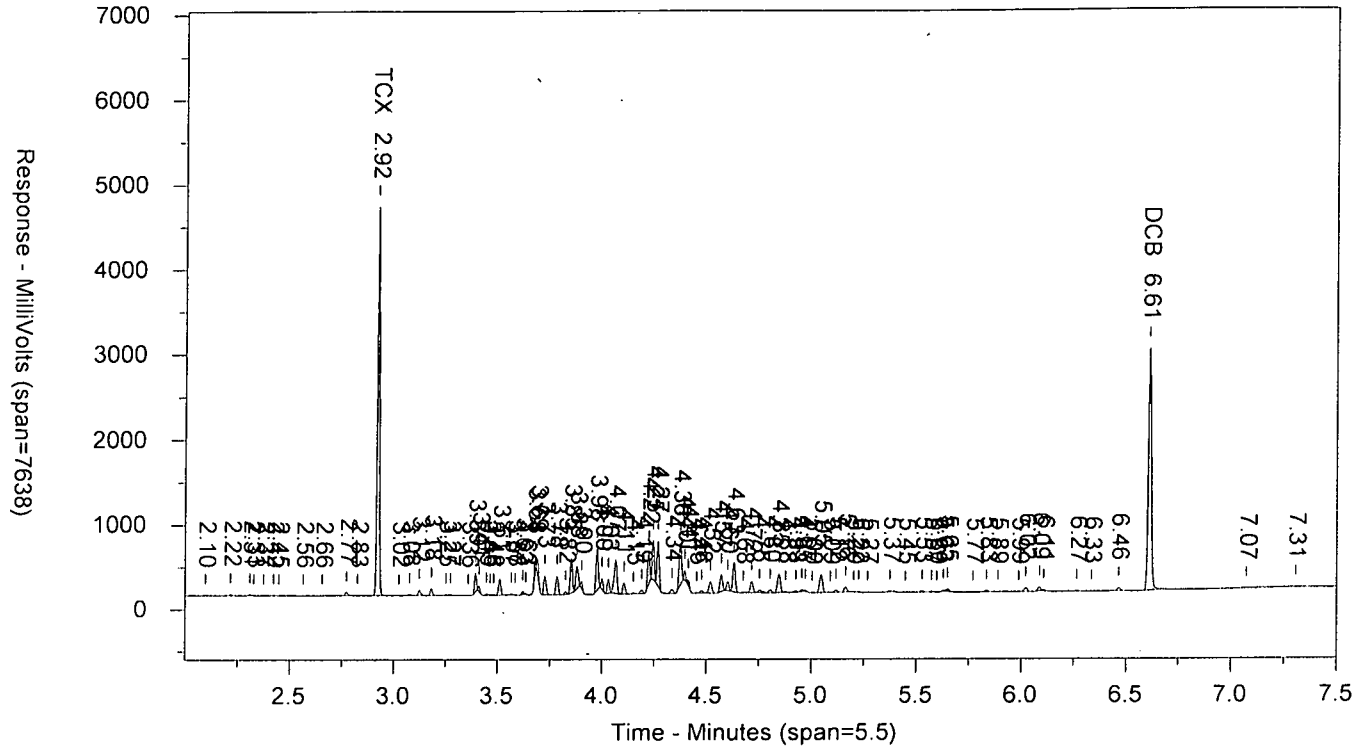

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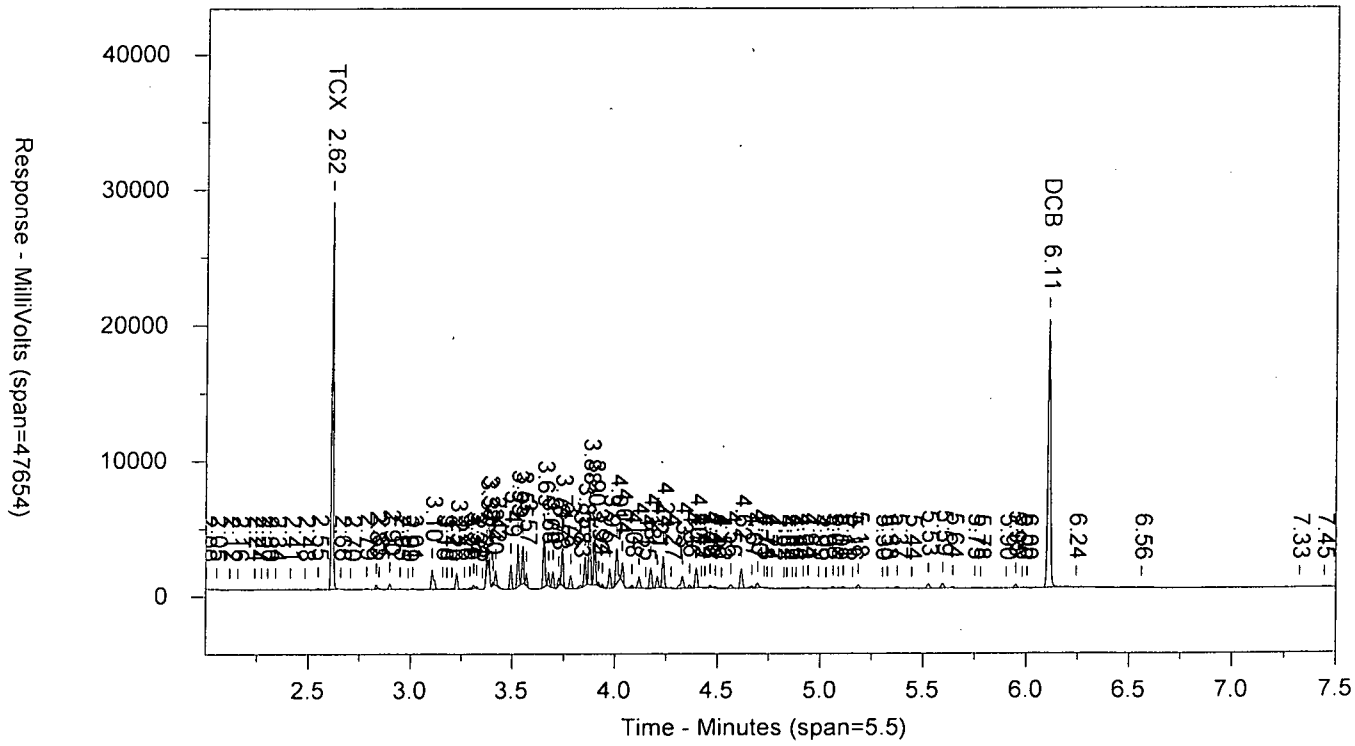

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.015.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		8359	11412
2.217		25475	18105
2.309		18010	11099
2.328		8169	4613
2.379		1939	2109
2.425		5826	5119
2.502		1259	1342
2.549		1349	824
2.564		2259	1438
2.658		1639	2137
2.719		1104	835
2.751		900	520
2.774		29483	24102
2.827		6706	6911
2.923	TCX	7226676	4837779
3.026		2483	1372
3.076		32963	27097
3.123		94733	84334
3.18		186204	135528
3.253		14496	8008
3.273		40117	25714
3.395		502874	310855
3.411		149550	74955
3.448		38214	23350
3.464		6225	2497
3.481		13356	7395
3.51		431278	343546
3.567		27448	16091
3.584		11914	7042
3.621		85162	51668
3.635		23090	10448
3.679		394745	200189
3.691		463102	243635
3.727		546276	418133
3.785		559879	450439
3.826		81569	57981
3.852		971043	719358
3.88		667112	533846
3.902		194270	109451
3.977		1155522	871026
4		320603	207999
4.032		401133	289492
4.067		1004437	938930
4.107		326973	264547
4.152		35307	27208
4.192		94004	84108
4.225		1000110	665927
4.246		1226616	790763
4.269		1321562	954947
4.336		113798	109548
4.375		1190273	989844
4.397		321817	173611
4.413		132081	75046
4.454		18080	12508

RT A	Compound A	Height A	Area A
4.477		67396	49640
4.519		327243	297902
4.571		499375	429364
4.603		277622	205483
4.633		858936	739322
4.678		16424	12069
4.717		323537	282569
4.755		71517	88544
4.806		81053	70440
4.847		525102	498791
4.877		15514	10685
4.928		42141	52201
4.955		45587	32824
4.972		31596	19842
5.004		8753	7647
5.047		542277	526559
5.09		13426	9820
5.117		50534	51789
5.163		131717	121644
5.186		5687	2336
5.203		8631	4776
5.225		19026	14310
5.269		10691	11284
5.312		1687	1059
5.374		30550	25825
5.449		9934	8537
5.489		4784	3486
5.528		35475	35147
5.574		25419	22776
5.598		3997	2637
5.63		27848	21508
5.651		51399	39666
5.745		736	1336
5.835		35240	39182
5.89		14238	24728
5.986		4651	4375
6.022		77886	78719
6.087		76377	63391
6.108		14759	9500
6.266		17469	17943
6.31		1303	991
6.393		1512	1459
6.466		55941	55077
6.613	DCB	4126763	4242890
6.733		2097	1683
6.928		910	2505
7.07		3257	6854
7.361		1248	24387
8.312		623	615
8.679		3418	4538

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.015.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		10147	8761
2.054		62382	41138
2.121		3018	1528
2.155		6616	6112
2.24		18624	29435
2.3		14902	9329
2.344		1835	1313
2.413		9168	9202
2.477		8693	13344
2.546		79682	47111
2.574		4489	3194
2.59		4992	2276
2.616	TCX	43947670	25366120
2.658		66747	37768
2.786		206161	143015
2.832		469933	241676
2.846		113410	45878
2.899		1009828	635651
2.949		109336	62353
3.009		231863	140711
3.105		3404198	2919764
3.156		231691	131585
3.178		89159	51544
3.203		101069	53368
3.227		2803889	1838013
3.264		113912	66969
3.291		185864	93769
3.309		634255	326330
3.324		302451	150305
3.351		6502	3238
3.374		3285784	1441643
3.384		3600312	1395639
3.404		569247	236335
3.418		2448493	1440444
3.492		4433489	2762948
3.527		7487300	4448681
3.55		6681319	3757791
3.568		2269669	1133104
3.653		9506378	5868204
3.676		2429337	1291614
3.697		2947622	1677754
3.726		1353091	671378
3.743		7023268	3946533
3.784		2351769	1703449
3.831		499056	411598
3.853		5382607	3249192
3.876		13107570	8193184
3.901		9545825	5689826
3.92		702686	330629
3.938		548569	306165
3.974		3629686	2499866
4.009		6419640	4809036
4.037		3780750	2057560
4.084		476624	375873

RT B	Compound B	Height B	Area B
4.119		2067483	1583569
4.151		18383	9410
4.176		3677732	2693049
4.209		1965832	1344551
4.236		5812918	4035195
4.274		119025	112311
4.33		2225487	2102556
4.365		537375	394559
4.397		3688487	2636272
4.421		98065	50404
4.44		80931	45440
4.464		427943	279985
4.49		272905	191291
4.52		5337	3759
4.564		562937	572681
4.616		3675986	2807203
4.667		261697	297484
4.696		886130	740101
4.727		65327	31632
4.742		56960	28377
4.766		67828	50563
4.839		23382	37936
4.865		18834	11033
4.883		30383	19170
4.917		152657	110370
4.941		290217	219406
4.99		85991	89209
5.027		33252	23635
5.062		205126	164195
5.088		117857	76386
5.111		275597	234111
5.185		455315	402546
5.302		7110	4302
5.327		130804	105857
5.373		228023	239195
5.444		33850	27755
5.527		538385	473152
5.595		593445	524271
5.644		218392	188749
5.751		110570	96007
5.783		6144	6622
5.833		2897	5700
5.901		6347	5092
5.95		355237	309750
5.981		7426	4842
6.003		5402	3151
6.07		3540	2261
6.109	DCB	29528940	24670880
6.286		4806	5826
6.561		21874	19757
7.559		864	15664
7.838		2126	3426
8.216		14928	22823

AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082

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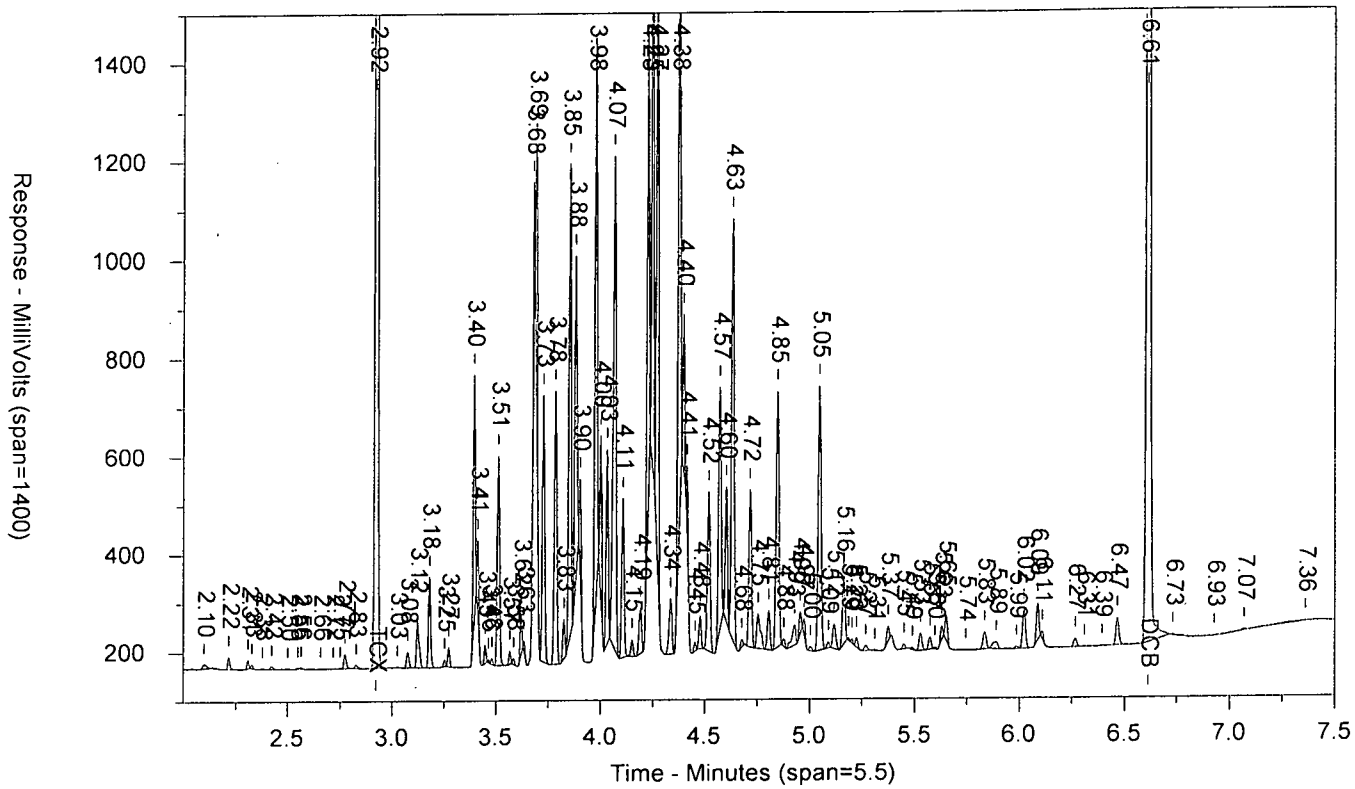

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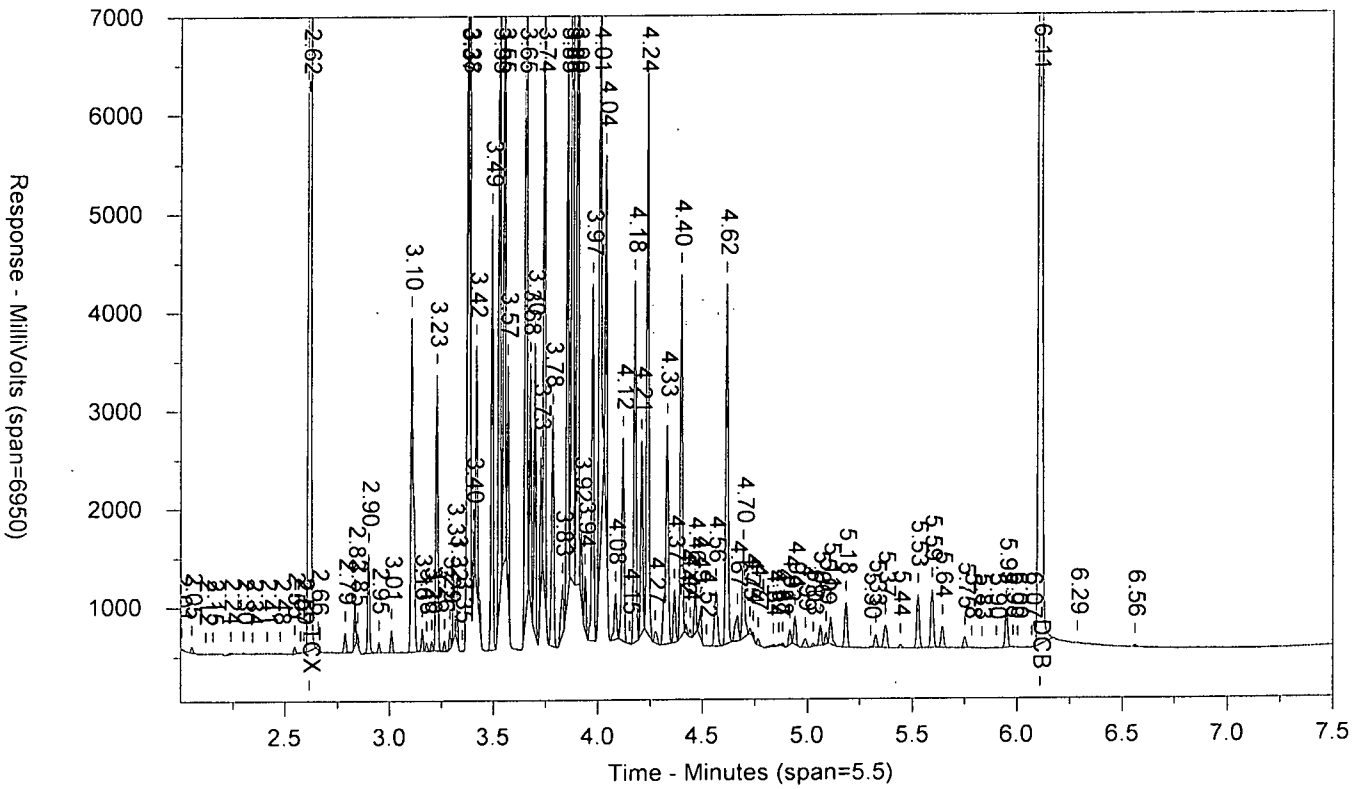

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	7226676	63.592	TCX	2.616	43947670	63.572	TCX
6.613	4126763	59.968	DCB	6.109	29528940	60.612	DCB

Files:
Area File: 20pcbs17137001.015.RAW
Area File: 20pcbs17137001B.015.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:20:44 PM
File Reported On: 5/17/2017 at 7:20:54 PM

AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082

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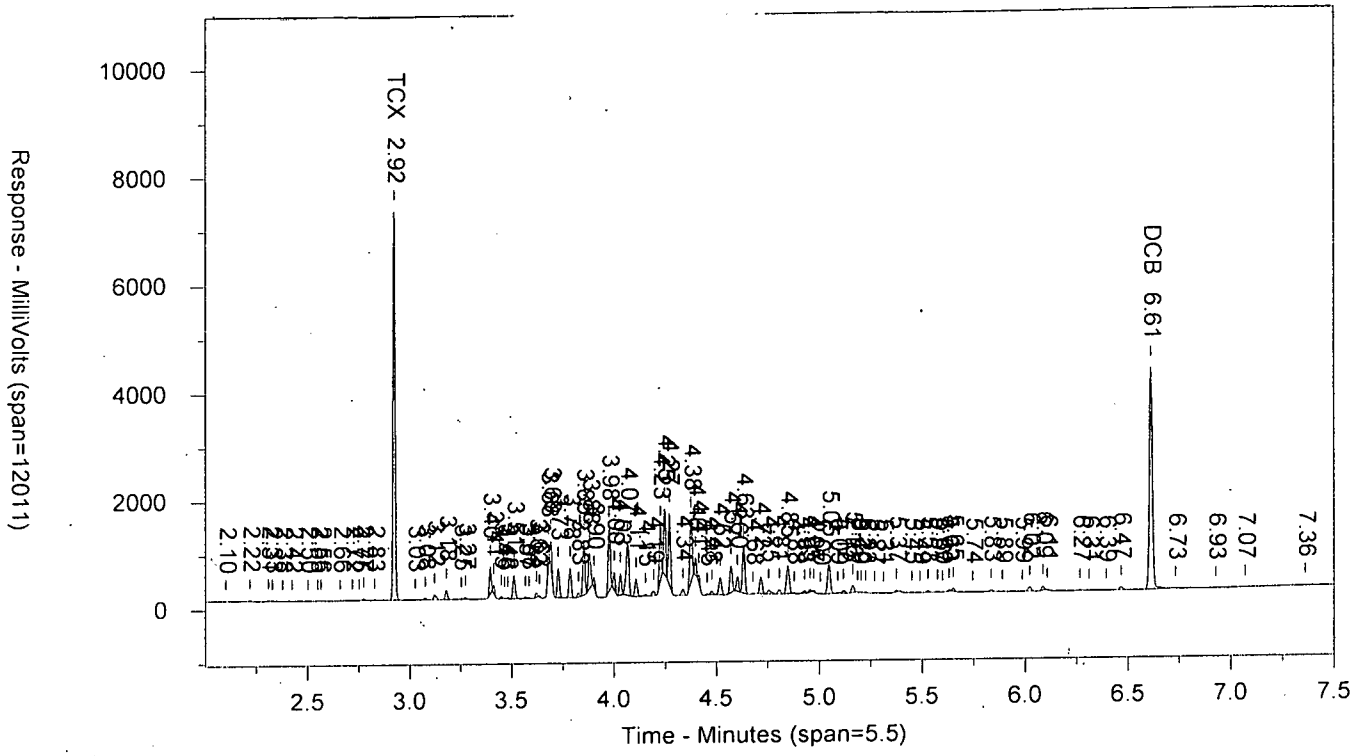

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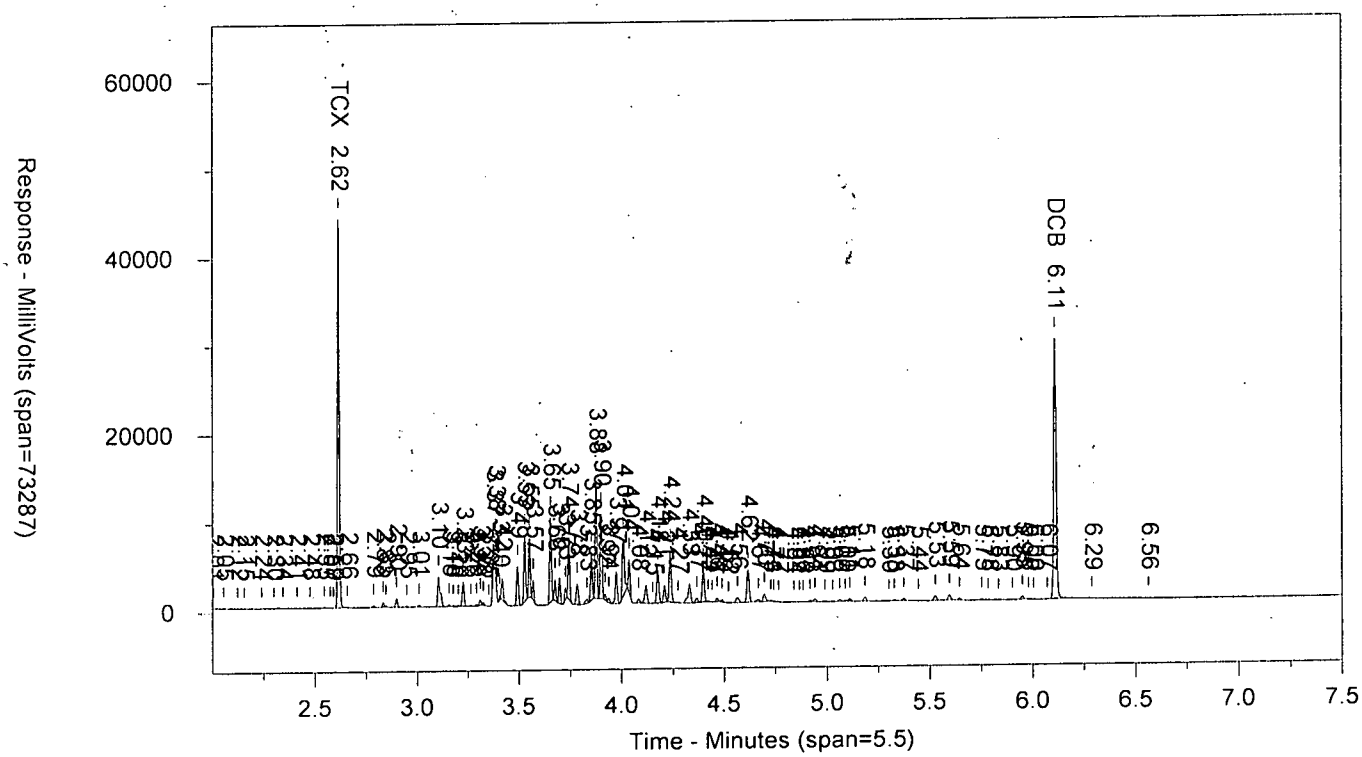

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.016.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.102		4593	7084
2.217		33498	23447
2.309		13290	7935
2.328		11078	6668
2.382		1720	2296
2.423		3902	3284
2.47		689	424
2.503		2044	2473
2.547		1437	711
2.564		4738	3266
2.658		1369	1191
2.718		1337	708
2.751		960	645
2.773		22149	18445
2.828		3893	4280
2.923	TCX	9509188	6382889
3.024		2770	2214
3.076		77229	66225
3.122		127603	124575
3.18		351491	252262
3.252		18493	10271
3.273		78522	51955
3.312		1711	1131
3.394		929224	583136
3.411		282470	138992
3.447		74790	44027
3.463		15591	6989
3.48		25401	13759
3.51		871828	649774
3.544		2467	1178
3.565		33886	19324
3.583		41013	24433
3.62		159962	94210
3.633		41144	19296
3.678		751000	401965
3.689		862709	421682
3.725		1075715	827649
3.783		1100756	878164
3.824		155069	110291
3.852		1921107	1394040
3.878		1379196	1041861
3.9		365044	200549
3.975		2385746	1699783
3.999		625973	398179
4.03		781565	561750
4.065		1968562	1862230
4.106		665468	507653
4.135		3097	1291
4.151		63632	46599
4.191		171392	156793
4.223		1978232	1350399
4.244		2387278	1576526
4.267		2654071	1900057
4.334		214486	206041

RT A	Compound A	Height A	Area A
4.373		2372393	1993604
4.396		692000	375125
4.411		221591	121082
4.451		34959	24086
4.475		121796	92712
4.517		622823	570173
4.569		1007498	857474
4.601		547641	404895
4.631		1726522	1469141
4.676		36870	37768
4.715		610892	548990
4.753		131809	165879
4.804		146587	134350
4.845		1061090	993486
4.874		23061	14672
4.902		7379	5694
4.925		74530	65697
4.953		78830	58000
4.97		54122	34640
5.003		16350	13508
5.045		1143176	1067163
5.088		24996	19395
5.115		69256	74854
5.161		250614	233392
5.184		11187	5031
5.2		15638	8450
5.223		36777	29163
5.266		20628	20357
5.308		2678	1954
5.371		64932	53241
5.388		13140	10404
5.446		19896	16991
5.467		1342	580
5.486		8014	6264
5.526		44167	44141
5.572		51269	44617
5.598		7411	4788
5.628		65285	48211
5.649		54034	39562
5.831		64694	70528
5.888		28123	46112
5.984		8079	7806
6.02		96222	95477
6.085		87004	76607
6.106		25508	16630
6.264		32922	33707
6.31		1858	2940
6.391		1767	2222
6.433		931	672
6.464		76919	78675
6.565		1023	913
6.608	DCB	5542819	5734791
6.892		837	813
7.063		3964	4116
7.45		2661	70223
8.545		882	716
8.68		4314	5262

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.016.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		1311	3102
2.054		81306	54354
2.157		6416	8440
2.185		3345	1655
2.203		11741	5347
2.241		16024	26868
2.301		29987	20834
2.365		3965	3162
2.411		12611	15149
2.478		9131	15814
2.53		8117	7715
2.547		66971	39360
2.573		8156	5086
2.591		5309	2342
2.616	TCX	56786070	33260090
2.659		134709	81776
2.787		478379	320739
2.833		584222	295727
2.847		236485	104914
2.899		1929623	1191020
2.949		139901	81298
3.01		426828	264267
3.105		6219541	5525114
3.156		449963	273490
3.178		214219	118189
3.202		187144	101921
3.226		5337686	3519511
3.264		306450	181367
3.291		225438	113958
3.309		1194423	634850
3.325		537473	249788
3.35		11796	5943
3.375		5587559	2664617
3.384		6804682	2608231
3.404		1036404	430936
3.417		5292533	3114385
3.492		8499526	5360734
3.527		14516990	8554099
3.55		13513160	7328765
3.568		4388659	2207160
3.653		18309420	11357940
3.675		5157966	2675008
3.696		5810601	3281080
3.725		2892498	1378988
3.742		13637050	7780507
3.783		4687711	3293150
3.831		953153	786418
3.853		10572020	6381212
3.875		25993180	16095300
3.9		18305070	11324790
3.919		1357384	630083
3.938		1134218	620167
3.973		6955386	4845141
4.008		12737840	9557564

RT B	Compound B	Height B	Area B
4.036		7791305	4201364
4.083		883634	670492
4.118		4169681	3070345
4.149		25797	13261
4.175		7284101	5400915
4.207		4095503	2762758
4.235		10969450	8064227
4.273		221433	211951
4.329		4344186	4118143
4.364		1077920	776805
4.396		7390967	5298636
4.42		199172	106121
4.438		86119	44711
4.463		820634	541948
4.489		565657	381321
4.563		1095988	1084044
4.615		7421871	5722627
4.664		344671	445142
4.694		1631230	1458476
4.726		125234	60063
4.741		109560	52383
4.764		133506	93699
4.824		5514	6154
4.837		19943	13282
4.864		35933	20873
4.881		60200	36238
4.915		290617	205189
4.939		547162	423613
4.989		160815	158904
5.025		62888	47280
5.06		275729	220265
5.086		220401	149677
5.109		518313	444895
5.183		578000	500356
5.301		11249	6755
5.325		250027	198374
5.371		449097	470208
5.443		60303	50355
5.525		646277	589500
5.594		732436	649246
5.643		311215	265988
5.749		222061	188358
5.781		10196	7215
5.901		8522	6219
5.949		515876	430881
5.979		10162	6933
6.001		6081	4085
6.044		1978	1919
6.072		3138	2728
6.108	DCB	38578290	33566540
6.201		8400	9032
6.235		9444	5132
6.557		29230	28882
6.726		2890	2478
6.861		2837	4876
7.247		1722	2040
7.357		1821	1610
7.441		1250	3191
7.555		1936	4045
7.628		1505	4812
8.213		15696	27337
8.321		1847	2164

AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082

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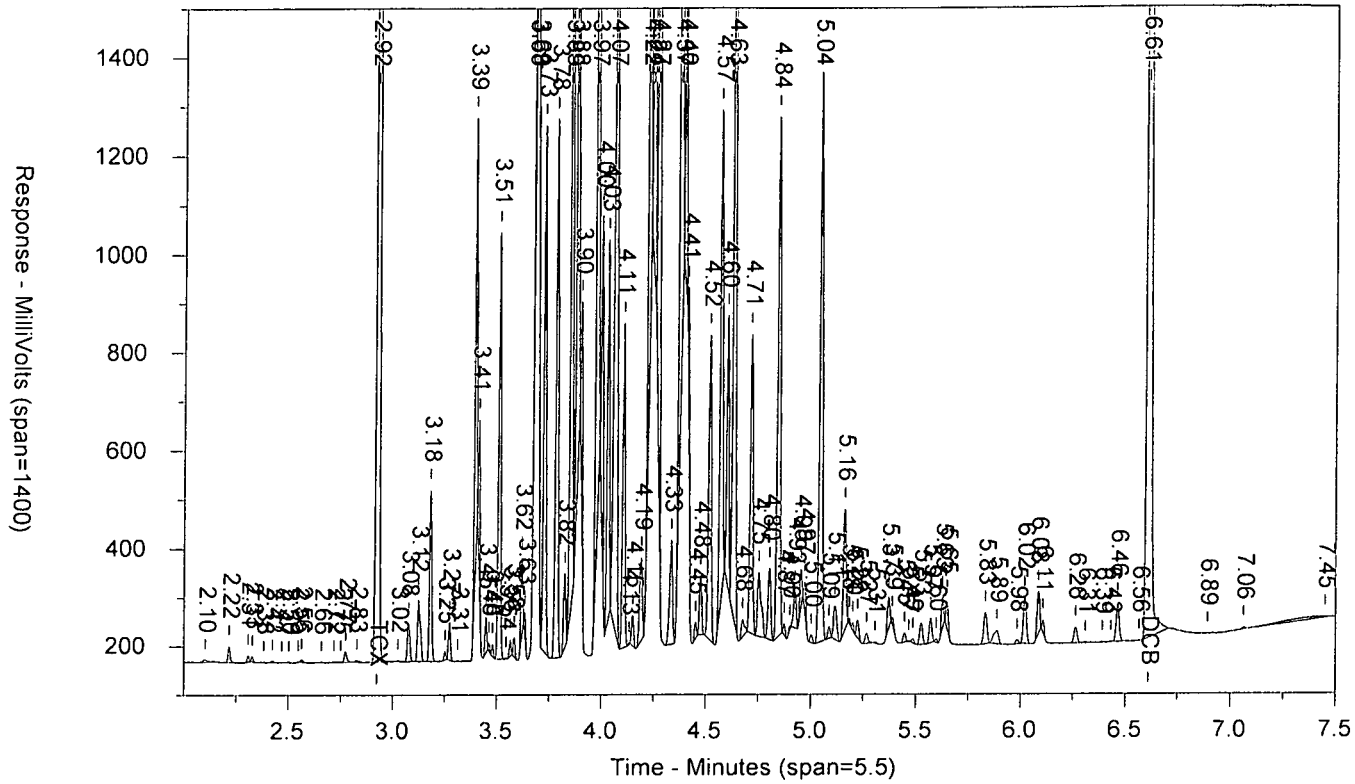

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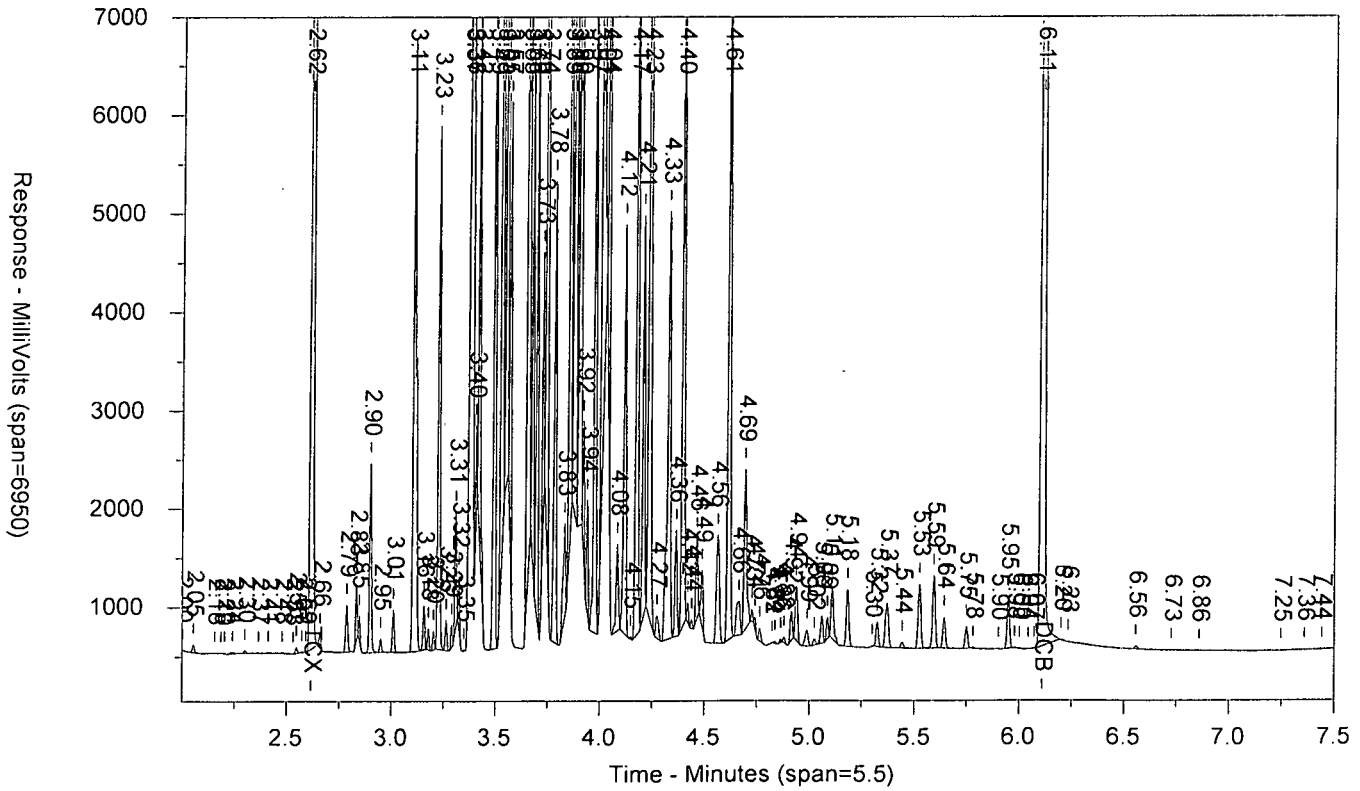

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9509188	83.678	TCX	2.616	56786070	82.143	TCX
6.608	5542819	80.545	DCB	6.108	38578290	79.187	DCB

Files:
Area File: 20pcbs17137001.016.RAW
Area File: 20pcbs17137001B.016.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:32:05 PM
File Reported On: 5/17/2017 at 7:32:10 PM

AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082

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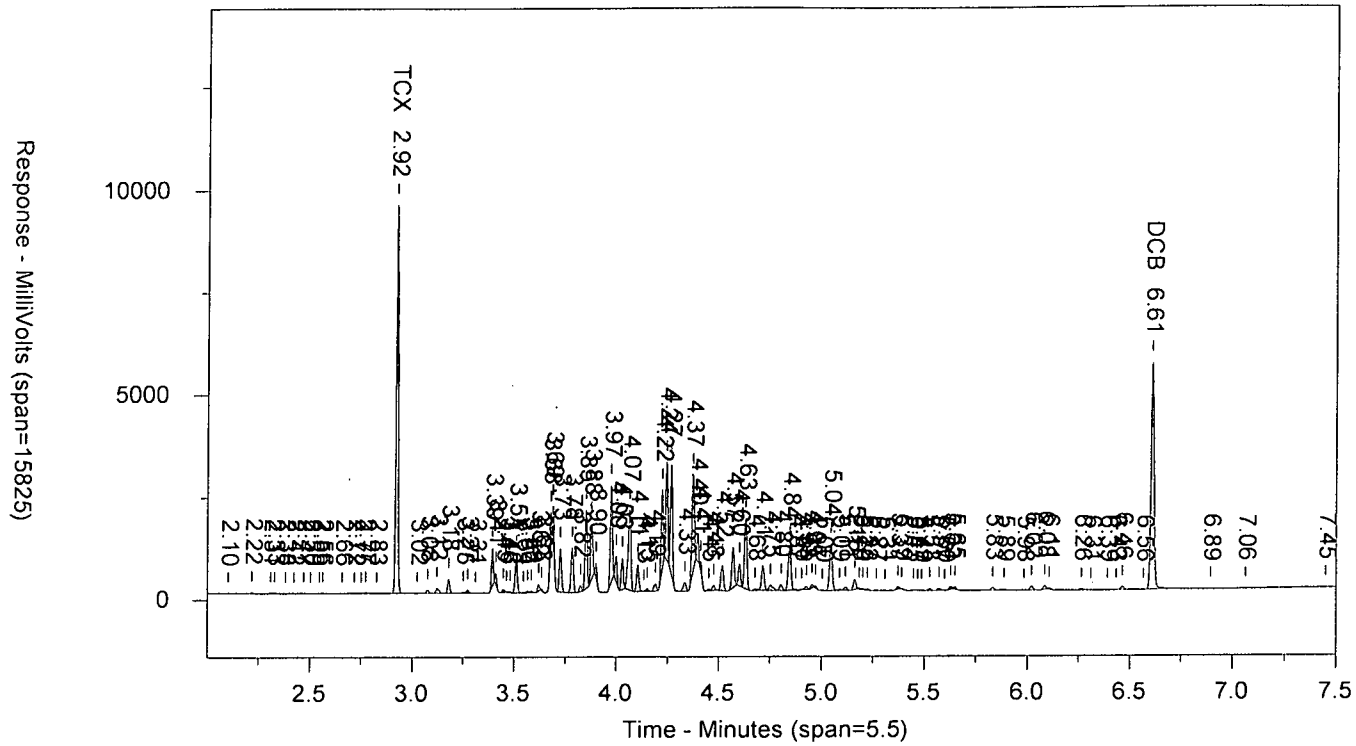

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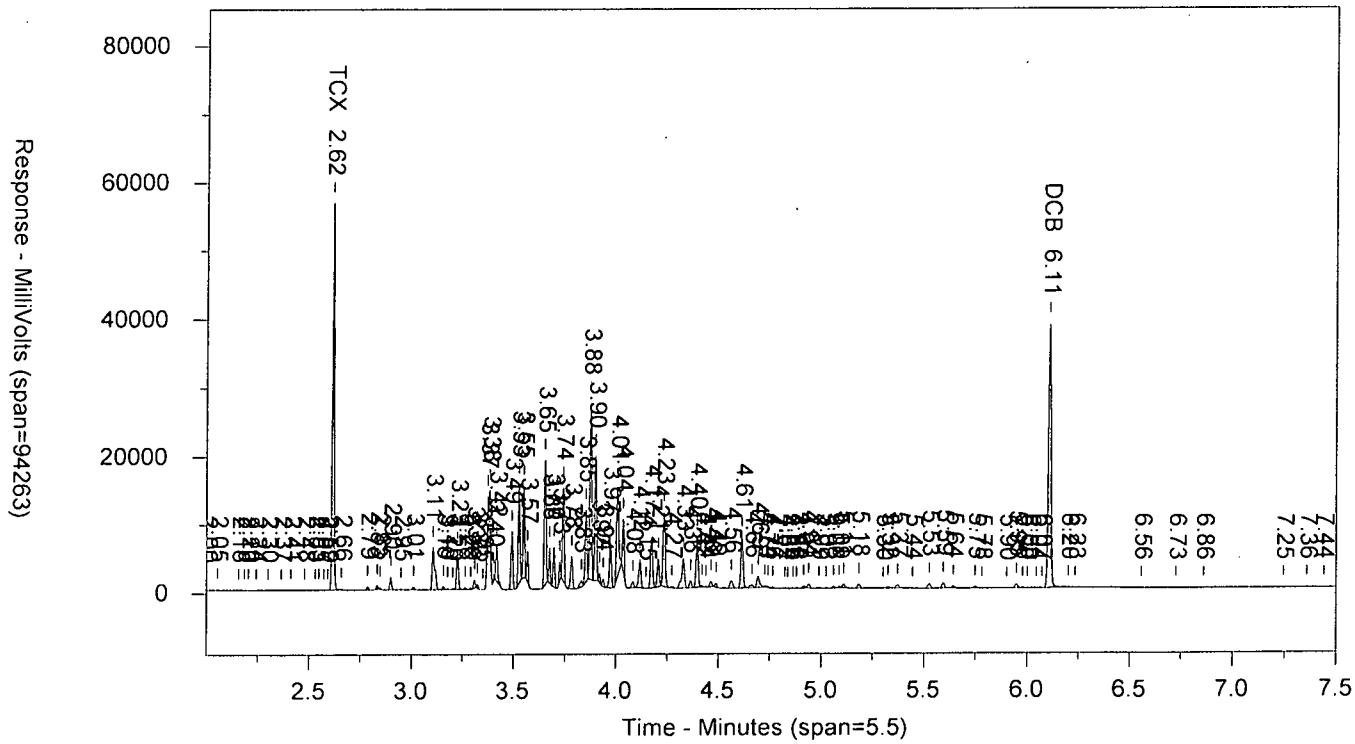

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.017.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10886	23496
2.217		1839	2275
2.309		15168	10983
2.378		1706	1758
2.424		5314	4549
2.55		1373	1154
2.658		1286	986
2.757		533	1360
2.774		38937	33321
2.828		6648	5962
2.923	TCX	469646	311766
3.075		1227	1010
3.122		6204	4143
3.19		6507	6987
3.252		1330	786
3.396		3824	2297
3.491		685	375
3.511		2219	1218
3.529		2577	2108
3.566		1487	778
3.586		2420	1578
3.621		829	406
3.665		9075	5995
3.694		2052	1405
3.729		6452	4785
3.784		3169	2312
3.853		101973	76695
3.881		25430	21830
3.978		62328	45913
4.002		3200	1986
4.032		4867	3520
4.067		26423	22595
4.108		4264	3627
4.17		1155	842
4.189		4391	3208
4.226		158940	114965
4.247		67405	41144
4.271		45220	31764
4.296		5647	3978
4.338		46194	38299
4.381		235994	242178
4.414		91259	72443
4.454		3466	2330
4.478		15303	11960
4.52		87831	80696
4.573		157523	139594
4.604		37849	25562
4.634		302959	270518
4.679		14088	9913
4.718		44709	36534
4.755		99229	102980
4.808		21721	18169
4.848		203718	201976
4.903		21450	17065

RT A	Compound A	Height A	Area A
4.927		4028	2450
4.956		74122	58271
4.972		32787	21605
5.004		2726	2090
5.048		156682	156863
5.091		19233	14905
5.117		21115	28238
5.164		206064	191571
5.186		10316	5267
5.204		9686	5438
5.225		3747	2576
5.269		7318	6340
5.375		76146	96587
5.45		9704	10865
5.489		7278	6542
5.529		5907	5735
5.573		42882	37705
5.6		5828	3812
5.631		32547	35703
5.746		914	1181
5.838		29206	27574
5.869		4532	4436
6.021		6550	7319
6.085		6890	6038
6.265		1737	1949
6.33		1659	1647
6.466		3719	3560
6.611	DCB	300948	331957
7.492		2450	90638
7.686		1023	6247
8.681		1486	1193

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.017.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		11051	9701
2.158		7959	33791
2.24		16537	27262
2.342		2543	1523
2.369		2479	2479
2.394		1856	883
2.413		7554	8111
2.478		8297	14176
2.529		10974	8574
2.547		103940	67223
2.594		3015	1693
2.616	TCX	2782724	1654542
2.704		4200	7324
2.78		3251	1510
2.802		2939	1605
2.833		44607	42260
2.899		21245	36351
2.949		7694	4163
2.987		2181	1254
3.106		32606	57955
3.181		19295	27992
3.227		25795	15980
3.266		18605	12510
3.291		12798	6249
3.325		114422	72379
3.374		42308	42351
3.406		15568	7782
3.45		4855	2741
3.493		30588	22044
3.527		724921	437997
3.55		232682	134880
3.568		19756	8884
3.654		474916	287024
3.676		29890	15756
3.699		52306	36872
3.727		28359	13658
3.743		171074	97982
3.784		41858	31062
3.824		35334	30846
3.854		153788	90457
3.876		1675701	1080969
3.901		183766	104519
3.921		172927	93830
3.939		262163	154084
3.975		1463146	995474
4.006		600005	359533
4.024		351061	189444
4.085		114619	122824
4.119		553443	418734
4.176		1088486	797125
4.209		297917	215536
4.237		1979718	1452344
4.275		151100	145553
4.329		951254	812833

RT B	Compound B	Height B	Area B
4.365		147888	110793
4.398		1311884	939813
4.422		210695	136165
4.465		810169	608019
4.489		37857	21509
4.52		4432	3895
4.564		679529	710309
4.617		881164	713966
4.657		231784	199797
4.696		1442526	1380726
4.743		104444	66355
4.767		47607	34847
4.826		20322	28949
4.882		72139	62657
4.917		72457	48849
4.941		418958	346889
4.991		56911	48135
5.027		47816	37263
5.06		33071	29289
5.089		214360	157330
5.111		161947	142157
5.154		5108	2463
5.185		38202	35925
5.328		6821	4710
5.369		179296	178462
5.527		44754	37792
5.573		8648	6620
5.595		44501	34303
5.644		22235	22750
5.75		8667	7817
5.843		1981	2556
5.949		24816	21237
6.109	DCB	2060654	1950215
6.558		2676	8697
6.709		1667	3110
6.812		2605	7334
7.322		1629	3758
7.444		1624	4424
7.559		2243	6175
8.169		1973	781
8.214		16748	32679
8.425		1358	2261
8.598		1572	1487

AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082

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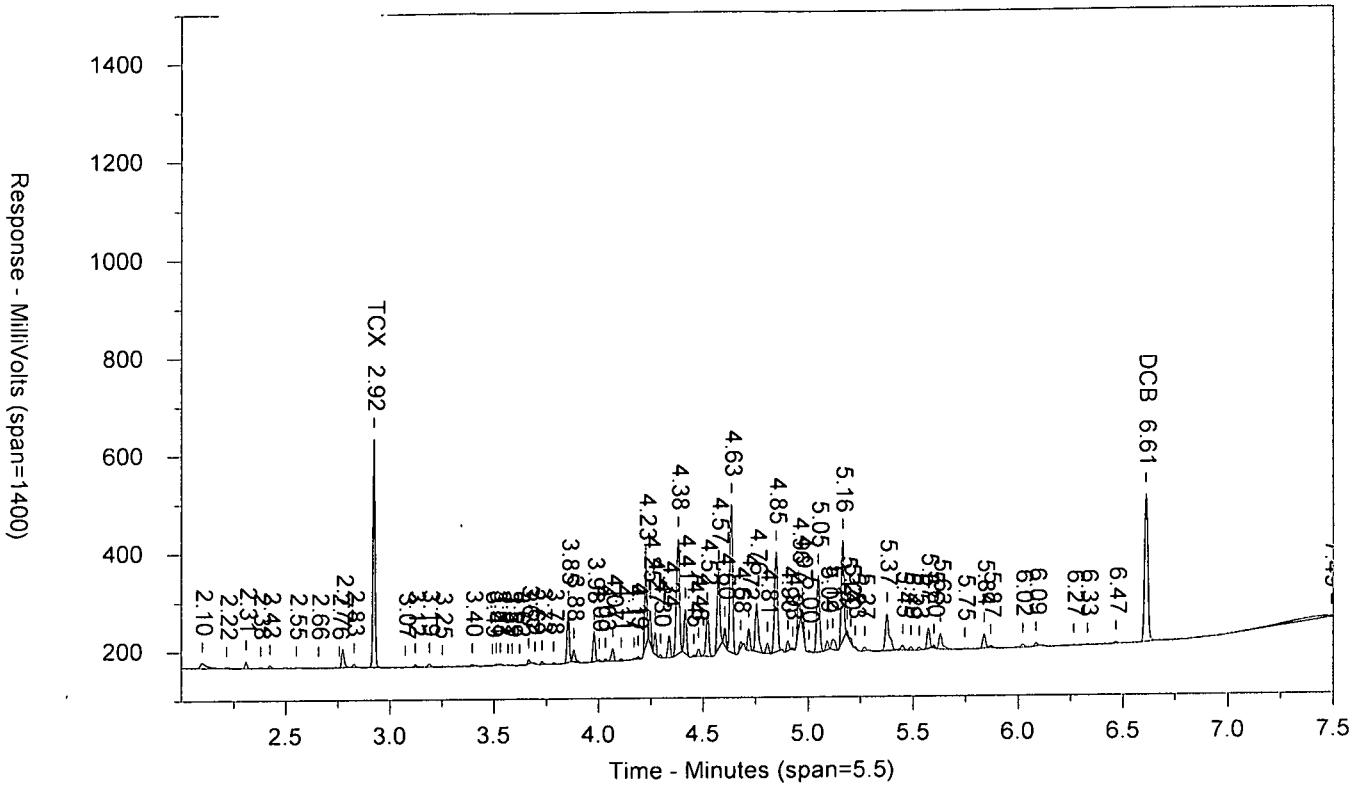

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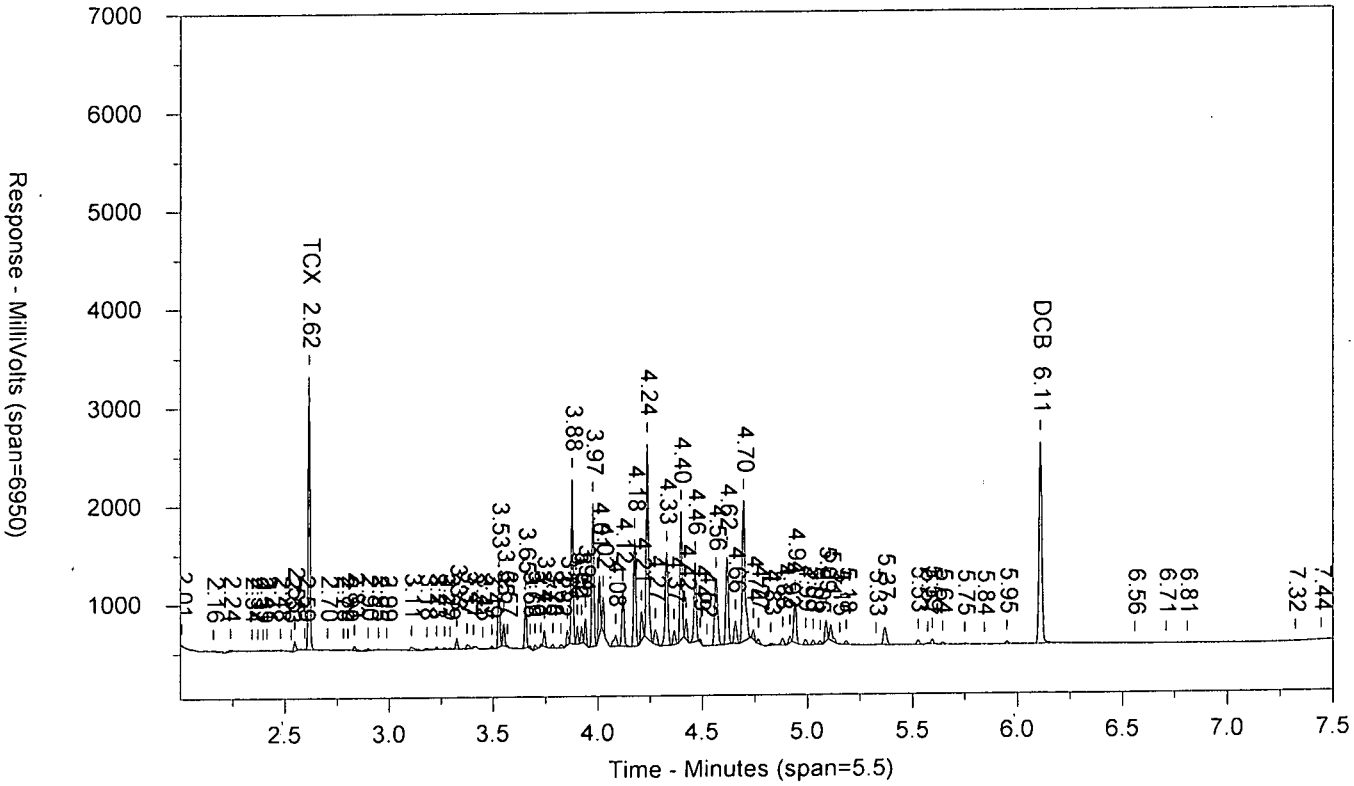

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	469646	4.133	TCX	2.616	2782724	4.025	TCX
6.611	300948	4.373	DCB	6.109	2060654	4.23	DCB

Files:
Area File: 20pcbs17137001.017.RAW
Area File: 20pcbs17137001B.017.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:43:31 PM
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AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082

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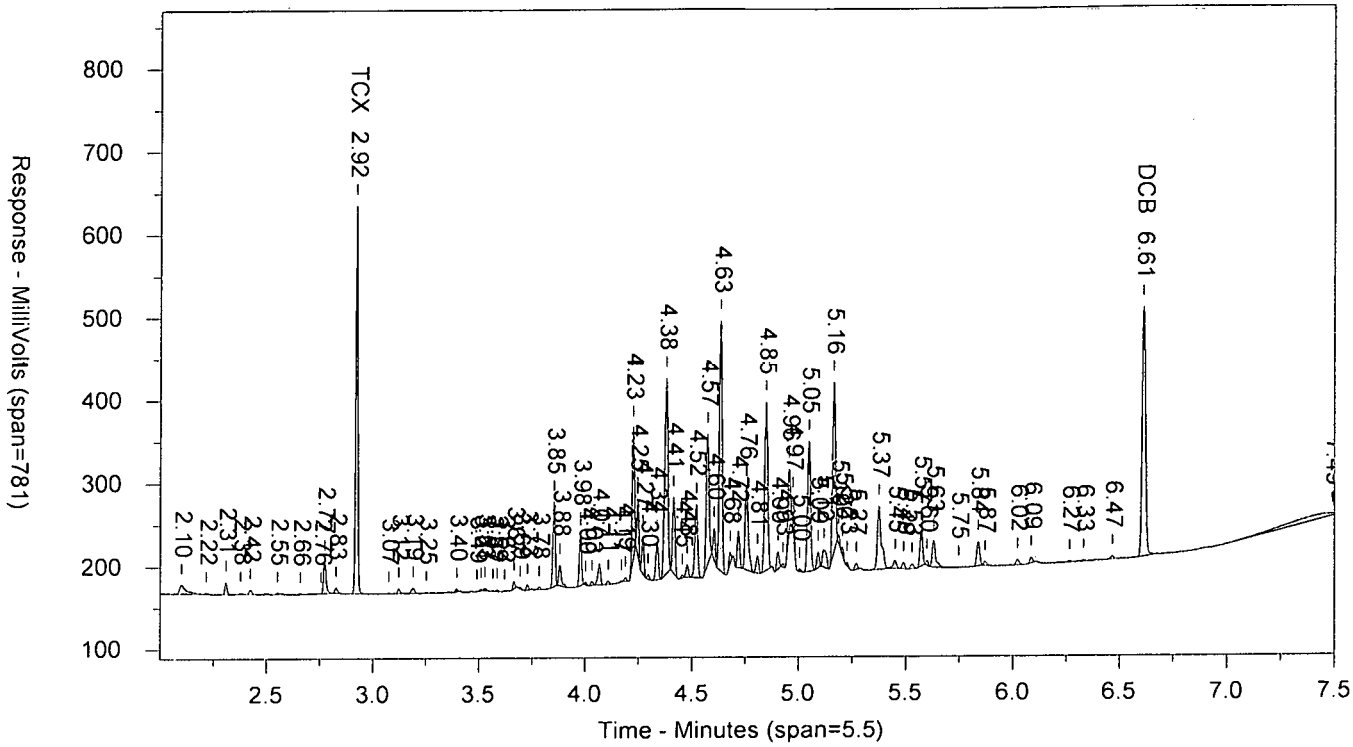

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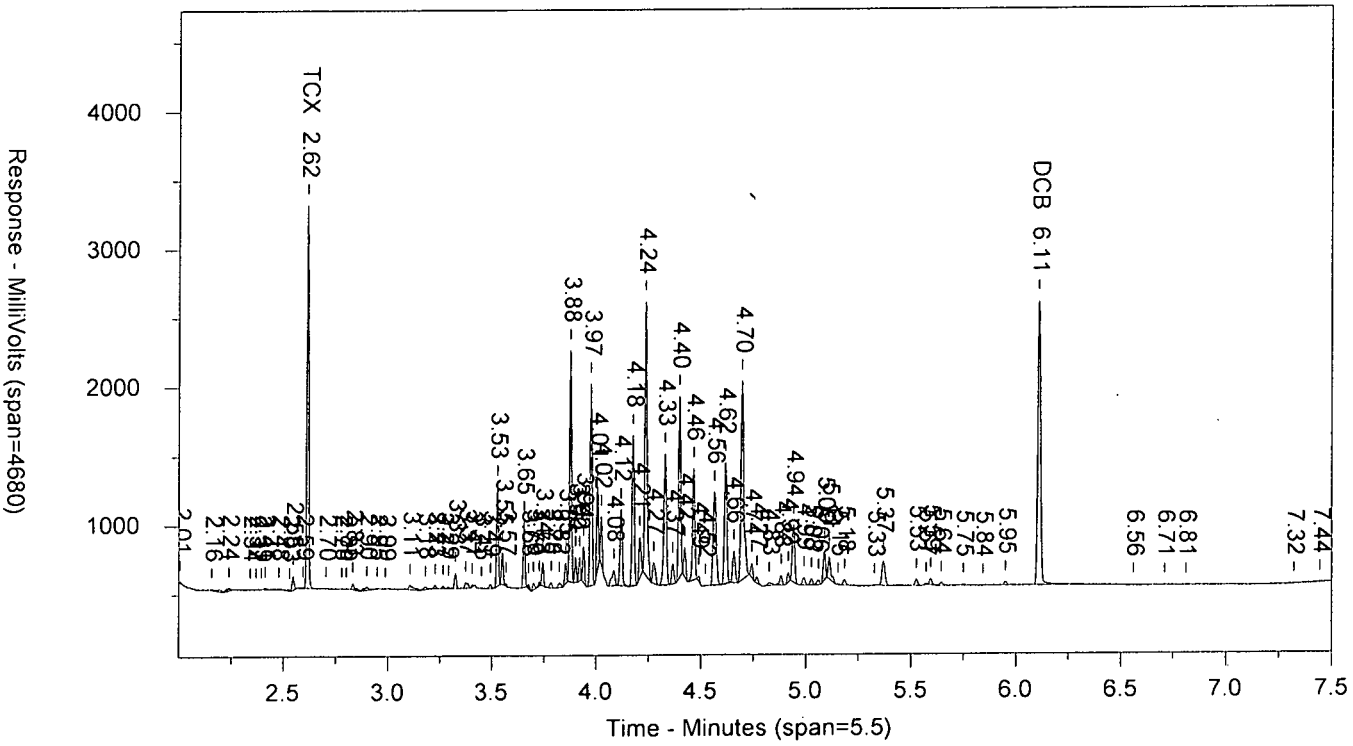

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.018.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.102		11112	25765
2.218		3350	2993
2.309		9561	6232
2.377		1860	2464
2.426		2689	2812
2.548		1212	827
2.659		1355	945
2.752		867	488
2.774		35670	30486
2.828		2713	2173
2.923	TCX	891329	601538
3.075		1405	1364
3.123		12066	8068
3.182		4812	5652
3.253		2308	1641
3.279		666	555
3.396		7291	4389
3.464		2246	1989
3.511		5348	3185
3.568		3020	1752
3.586		4425	2923
3.622		1407	790
3.666		2914	1558
3.68		3500	1436
3.693		3350	2710
3.729		14953	11385
3.786		6559	5038
3.829		786	578
3.854		177239	136127
3.881		48073	36700
3.977		114931	85800
4.002		5780	3448
4.032		10695	7611
4.068		48793	44942
4.109		9757	7113
4.154		1233	686
4.189		9325	7105
4.226		305110	215431
4.247		119948	73361
4.271		88553	62670
4.295		4564	2919
4.337		85331	72241
4.38		437157	449308
4.414		160247	132898
4.455		6213	3897
4.477		27929	22309
4.52		161983	145212
4.571		284736	262849
4.603		65605	46242
4.633		596274	511434
4.679		25515	18123
4.693		12073	6130
4.717		86514	69494
4.755		183692	189658

RT A	Compound A	Height A	Area A
4.806		38620	33410
4.847		393671	377914
4.876		7433	4380
4.902		39480	31786
4.927		7567	4426
4.955		138336	109214
4.973		62105	42065
5.004		5058	3879
5.047		309698	296067
5.091		33655	27831
5.117		38393	52977
5.164		398325	362995
5.187		21954	10024
5.203		12622	7182
5.226		9659	6325
5.27		13485	11790
5.375		134935	179364
5.425		1129	658
5.449		17192	15144
5.489		14747	13057
5.53		7813	7721
5.574		80910	71420
5.599		11267	7482
5.63		58906	65845
5.838		53986	50332
5.87		8686	8478
6.022		11916	12433
6.087		13198	11732
6.108		2524	1797
6.268		3061	3060
6.466		7960	8219
6.569		745	986
6.612	DCB	587785	621306
7.088		215	1623
7.493		952	23244
8.679		3512	4569

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.018.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		12116	12913
2.054		8180	6439
2.158		3395	2519
2.239		14669	23303
2.412		7992	10618
2.477		10994	23670
2.526		12108	10738
2.547		101788	67198
2.593		2675	1017
2.615	TCX	5567068	3241038
2.784		5688	5136
2.833		77579	56987
2.898		29120	28637
2.947		14413	9940
3.105		51051	50570
3.179		20012	15460
3.202		3483	2286
3.227		40512	27225
3.264		38621	23386
3.291		25244	13458
3.309		7429	3151
3.325		50680	28384
3.375		37583	17957
3.384		24496	8510
3.405		21054	9334
3.418		61421	40391
3.493		58067	38231
3.527		1299688	802293
3.55		438729	250624
3.568		42825	18177
3.654		839305	527746
3.677		67649	34791
3.698		95811	63892
3.727		75889	35310
3.743		314516	180572
3.784		82268	60620
3.824		63769	58191
3.854		286946	167274
3.875		3060571	2017712
3.901		343580	191538
3.921		312575	174805
3.939		528732	312912
3.975		2766149	1833023
4.006		1089804	660616
4.024		674857	350396
4.084		217971	191080
4.119		1032545	776043
4.176		2131657	1547957
4.209		612041	428659
4.236		3737878	2753842
4.274		275118	270887
4.329		1769741	1512920
4.365		276176	206902
4.397		2470128	1767883

RT B	Compound B	Height B	Area B
4.422		397437	253696
4.464		1458073	1126610
4.489		76822	43252
4.564		1335614	1311140
4.617		1682300	1372686
4.656		433120	377695
4.696		2736833	2628196
4.743		197995	126960
4.766		89485	60475
4.825		33425	43669
4.883		140261	124559
4.917		137896	93933
4.941		821670	652008
4.991		110239	93565
5.027		92159	70720
5.059		63560	54915
5.089		429225	308304
5.111		305888	266800
5.153		8529	4901
5.185		70793	65284
5.327		14478	11682
5.368		352730	346447
5.474		2331	2087
5.526		81445	70603
5.572		14170	9979
5.594		85439	69178
5.643		39616	35094
5.75		17959	14265
5.949		49274	42792
6.109	DCB	3897569	3649784
6.556		2822	2355
6.817		2197	3204
7.39		1698	1880
7.629		2024	34134
8.217		15004	26375

AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082

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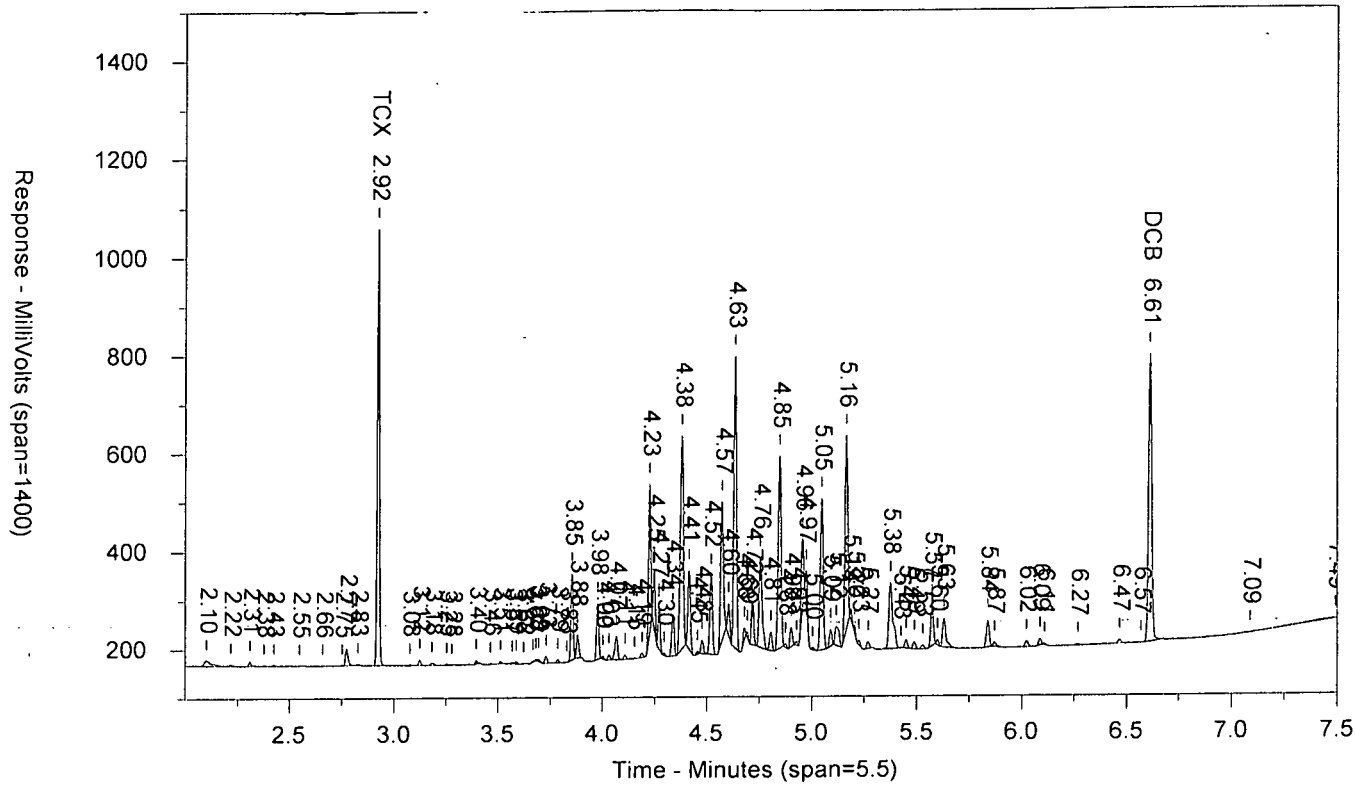

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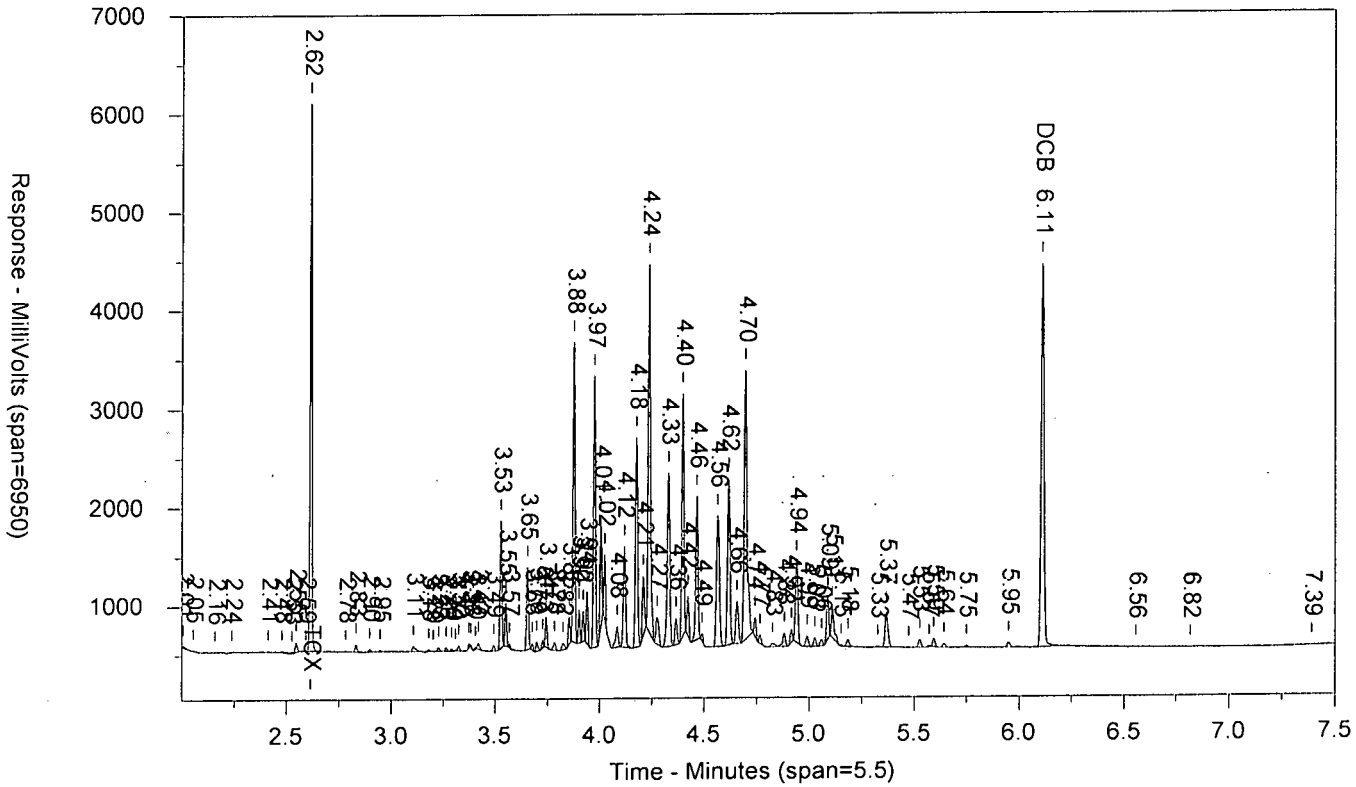

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	891329	7.843	TCX	2.615	5567068	8.053	TCX
6.612	587785	8.541	DCB	6.109	3897569	8	DCB

Files:
Area File: 20pcbs17137001.018.RAW
Area File: 20pcbs17137001B.018.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:55:01 PM
File Reported On: 5/17/2017 at 7:55:11 PM

AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082

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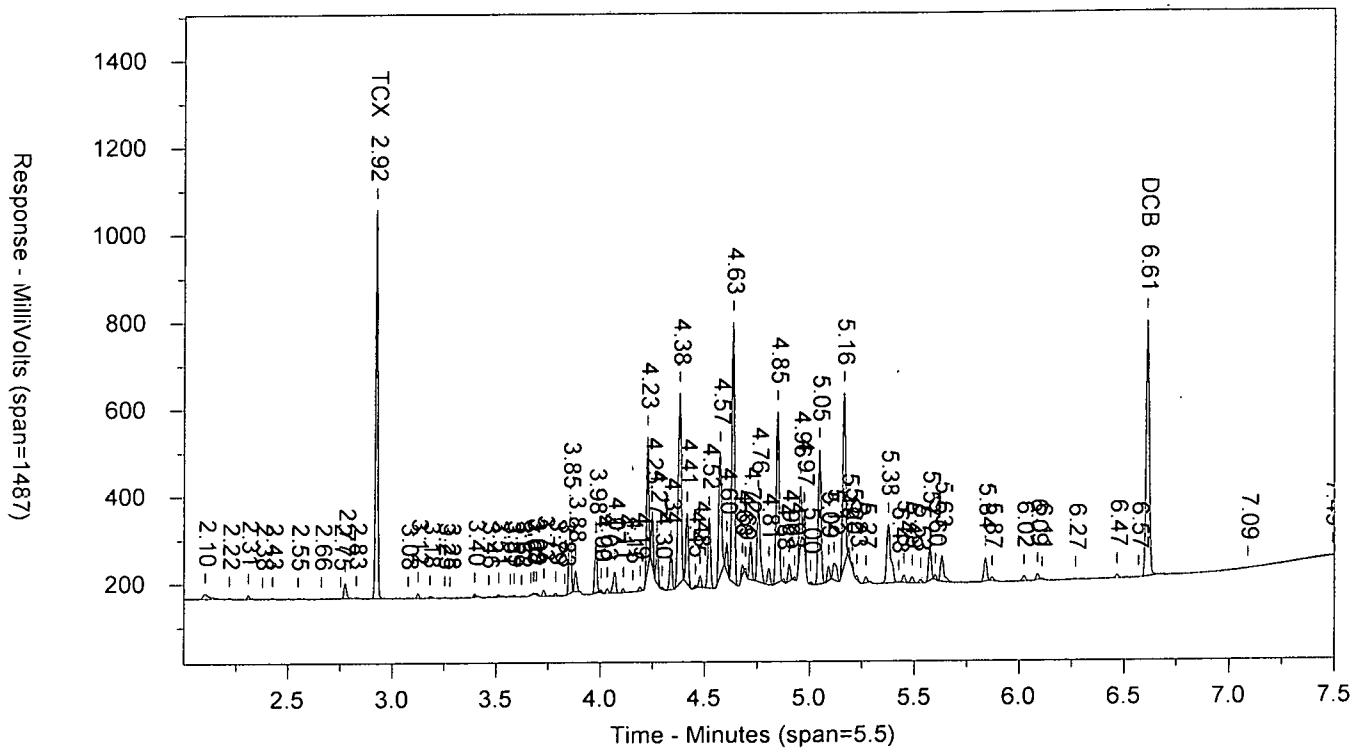

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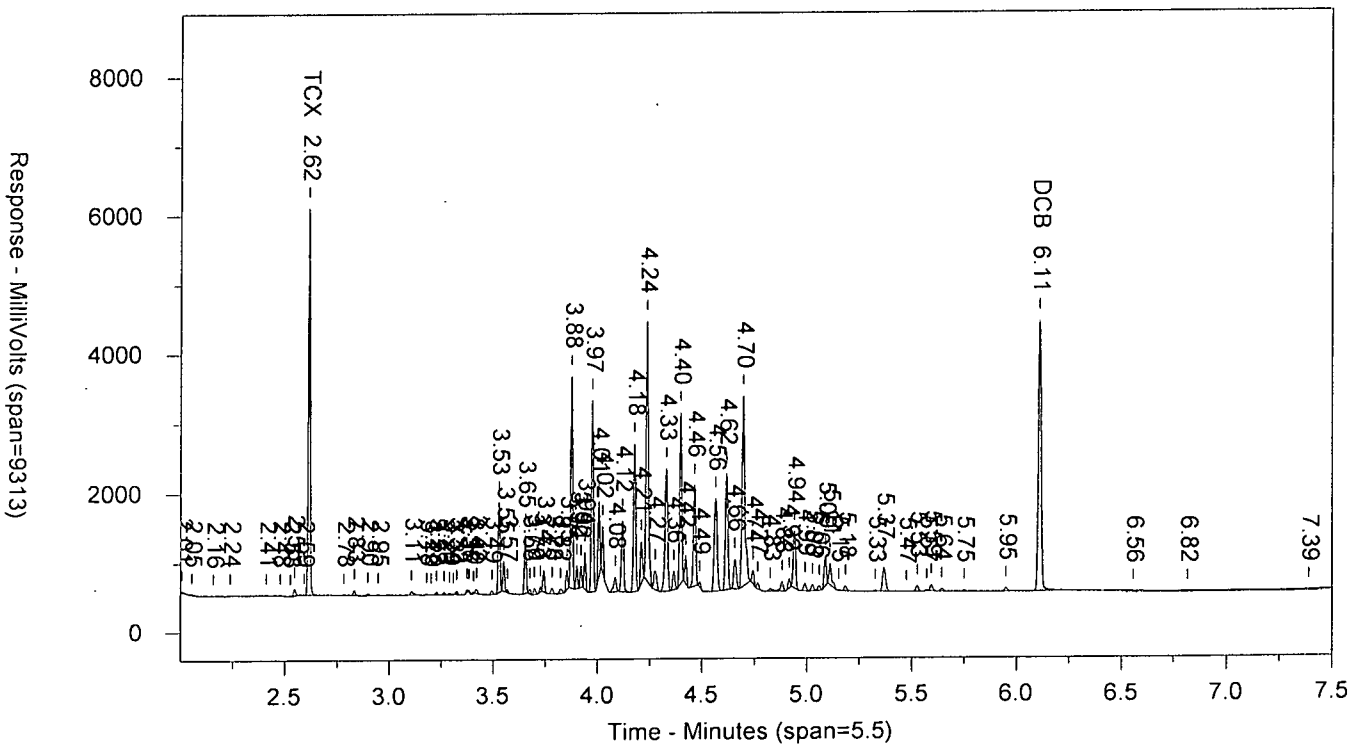

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.019.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		9388	20820
2.217		8192	6119
2.31		7625	4672
2.328		2519	1391
2.38		1444	1721
2.425		4543	3663
2.553		954	785
2.657		814	736
2.774		33907	28830
2.829		5127	4949
2.923	TCX	2258999	1493522
3.076		3773	3108
3.123		30402	20475
3.182		10558	11271
3.253		4743	2997
3.274		1174	853
3.396		18511	11338
3.412		5152	2727
3.466		5330	4320
3.511		14051	8892
3.567		7172	4185
3.586		12180	7435
3.622		3592	3901
3.665		5377	3097
3.68		9798	4633
3.692		7572	6291
3.728		39894	29891
3.785		15534	11868
3.827		2068	1236
3.853		403825	303006
3.88		107850	102706
3.977		251740	195006
4.001		14867	8614
4.032		29031	19947
4.067		112588	108598
4.108		23024	18201
4.136		1516	800
4.153		3385	1927
4.188		20543	16043
4.226		689965	484735
4.245		257739	157798
4.27		193606	141623
4.336		186165	162483
4.379		1081605	1045801
4.413		368483	296832
4.454		14578	9915
4.477		67310	52455
4.519		368559	330063
4.571		686384	615938
4.602		163372	107682
4.633		1443245	1224492
4.678		66421	45984
4.692		21243	11647
4.717		192259	154675

RT A	Compound A	Height A	Area A
4.754		415415	428331
4.805		86550	77498
4.846		944204	876808
4.874		18399	10707
4.902		87581	73724
4.927		18121	10134
4.955		320144	245945
4.971		143512	92967
5.003		11624	8807
5.047		758464	713914
5.09		79498	62798
5.116		85290	117608
5.163		963852	862568
5.185		40418	18958
5.203		30100	15230
5.225		26715	17388
5.269		31874	27351
5.373		308306	414114
5.423		2213	1063
5.448		37759	35537
5.488		33871	31551
5.528		17126	16936
5.573		176130	165158
5.6		25078	17246
5.629		130868	147206
5.837		119583	114542
5.868		20902	20201
6.021		26852	27439
6.086		29187	24992
6.107		6115	3941
6.265		7501	6945
6.392		841	968
6.465		17103	17663
6.61	DCB	1367514	1472703
7.072		1279	1973
7.56		2174	54731

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.019.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		11427	9609
2.053		19393	13196
2.155		3889	4965
2.241		19262	46173
2.343		1440	1184
2.412		4838	5719
2.479		6303	8853
2.547		94106	60037
2.616	TCX	13421420	8024805
2.785		21125	16783
2.833		186732	125794
2.899		69097	62995
2.949		34270	20273
2.988		1602	772
3.009		7665	5453
3.105		132505	135826
3.178		45690	30910
3.203		6324	3125
3.227		103610	68693
3.264		103281	61555
3.291		61909	32641
3.31		15782	7273
3.325		106947	60384
3.375		86084	40980
3.384		57539	20739
3.405		43588	21003
3.418		154982	105859
3.493		137473	89986
3.527		2966112	1796834
3.55		993798	572108
3.568		94678	40923
3.585		15235	8493
3.654		1919756	1190084
3.676		139493	72852
3.698		223836	146137
3.727		179267	87678
3.743		679391	393631
3.783		196197	146860
3.823		155022	139443
3.853		672848	381230
3.876		7227687	4681049
3.901		779342	429874
3.92		674814	372617
3.939		1065973	645094
3.974		6229853	4246805
4.006		2436783	1483152
4.023		1396710	761003
4.084		475479	376566
4.119		2398734	1759294
4.175		4960347	3659814
4.208		1314596	951831
4.236		8864505	6479641
4.274		645643	620405
4.328		4172151	3508653

RT B	Compound B	Height B	Area B
4.364		622376	474781
4.397		6007735	4223100
4.421		877964	554629
4.464		3438030	2598735
4.489		162056	91649
4.564		3085415	3038204
4.616		4310358	3361586
4.656		982643	856896
4.695		6390798	6255188
4.742		436378	291990
4.766		203137	139291
4.825		78130	90498
4.882		322055	292180
4.916		328827	218039
4.94		1953657	1521397
4.991		261448	213386
5.026		207625	168724
5.059		156464	131042
5.088		966074	706509
5.11		592918	409019
5.128		78104	41283
5.151		16569	9776
5.183		154421	132022
5.303		2353	1444
5.326		35164	27523
5.368		801310	818176
5.469		3535	3917
5.526		176865	151508
5.571		32941	22904
5.595		173931	143419
5.643		86990	75091
5.75		43449	41959
5.902		2738	2335
5.949		116377	98149
6.108	DCB	9480798	8756876
6.557		8171	7307
7.256		1113	1231
7.391		1647	885
7.434		2173	2437
7.497		1880	3738
7.618		1794	12092
8.215		16618	30952

AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082

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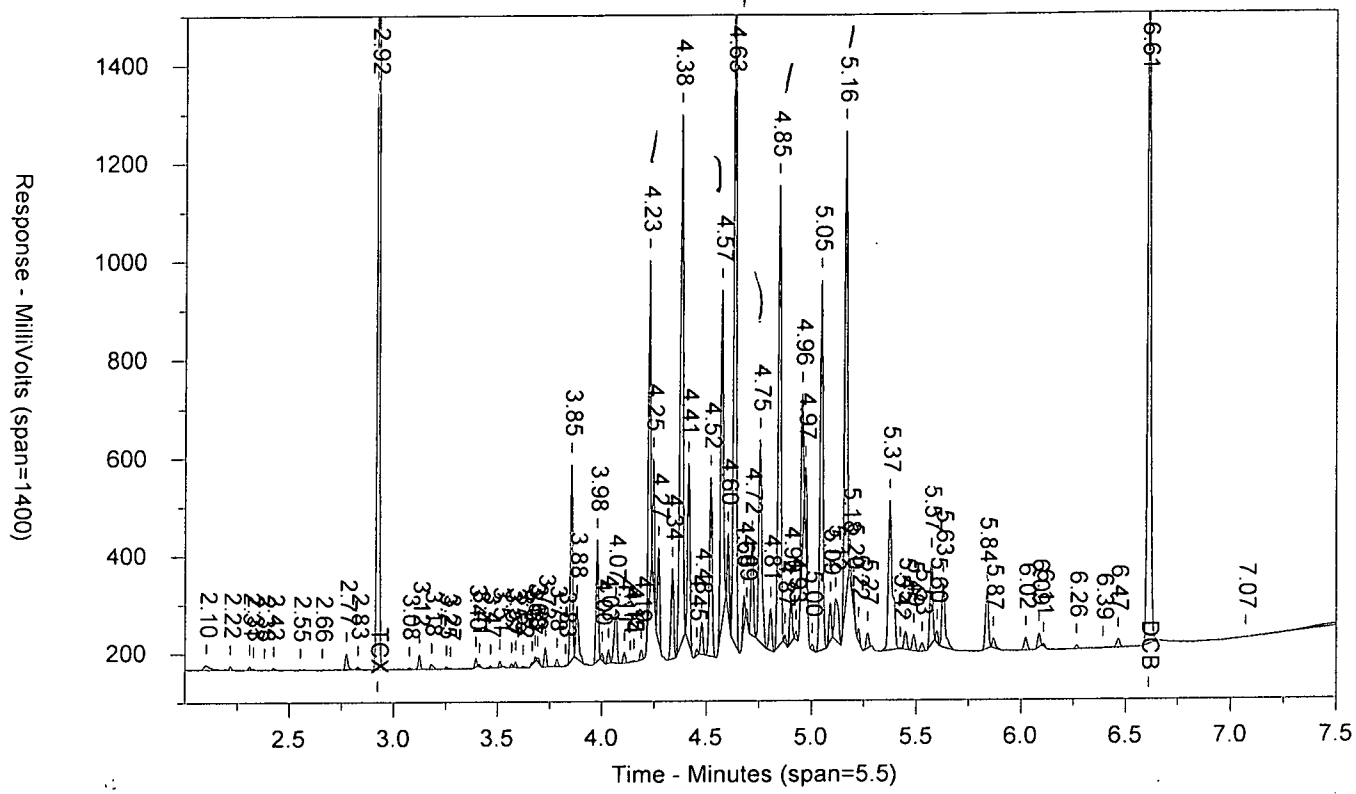

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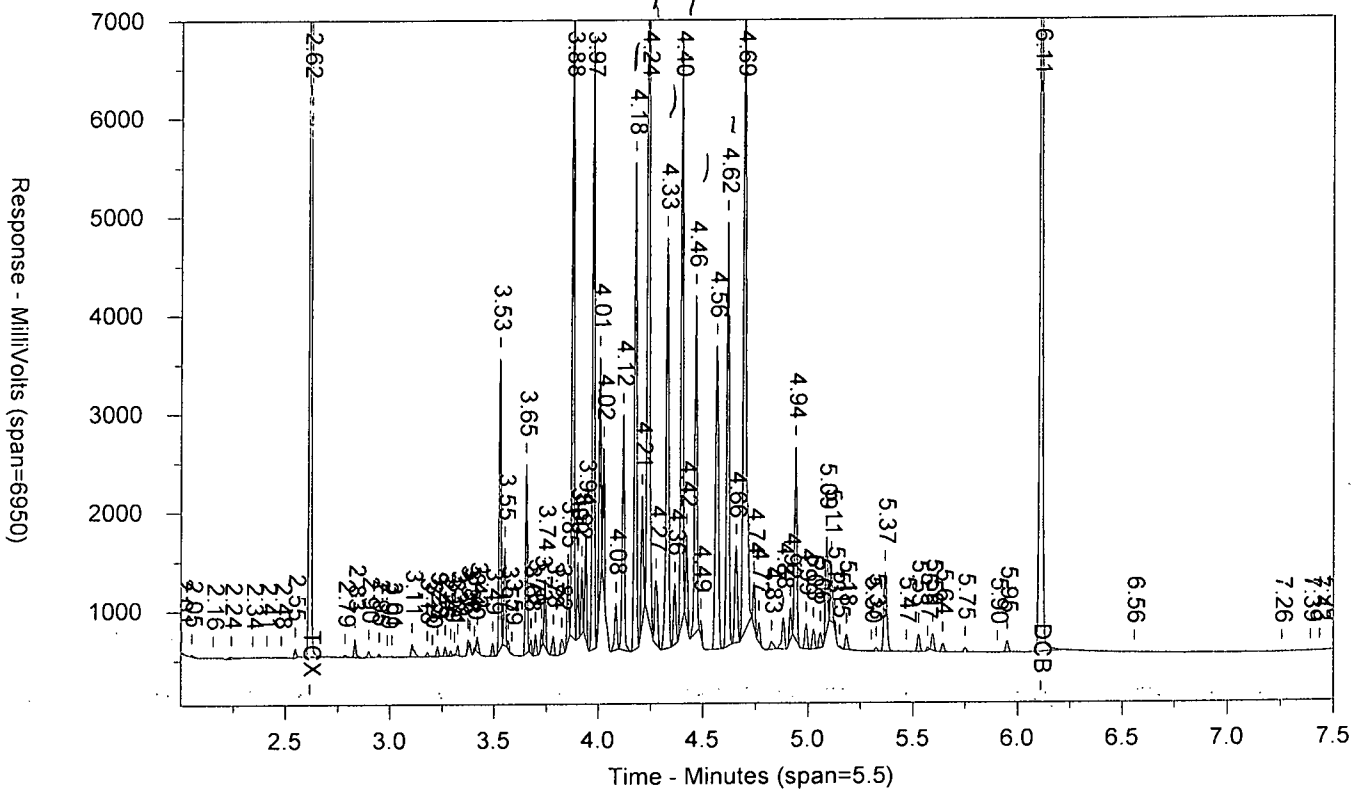

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2258999	19.878	TCX	2.616	13421420	19.415	TCX
6.61	1367514	19.872	DCB	6.108	9480798	19.461	DCB

Files:
Area File: 20pcbs17137001.019.RAW
Area File: 20pcbs17137001B.019.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:06:32 PM
File Reported On: 5/17/2017 at 8:06:43 PM

AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082

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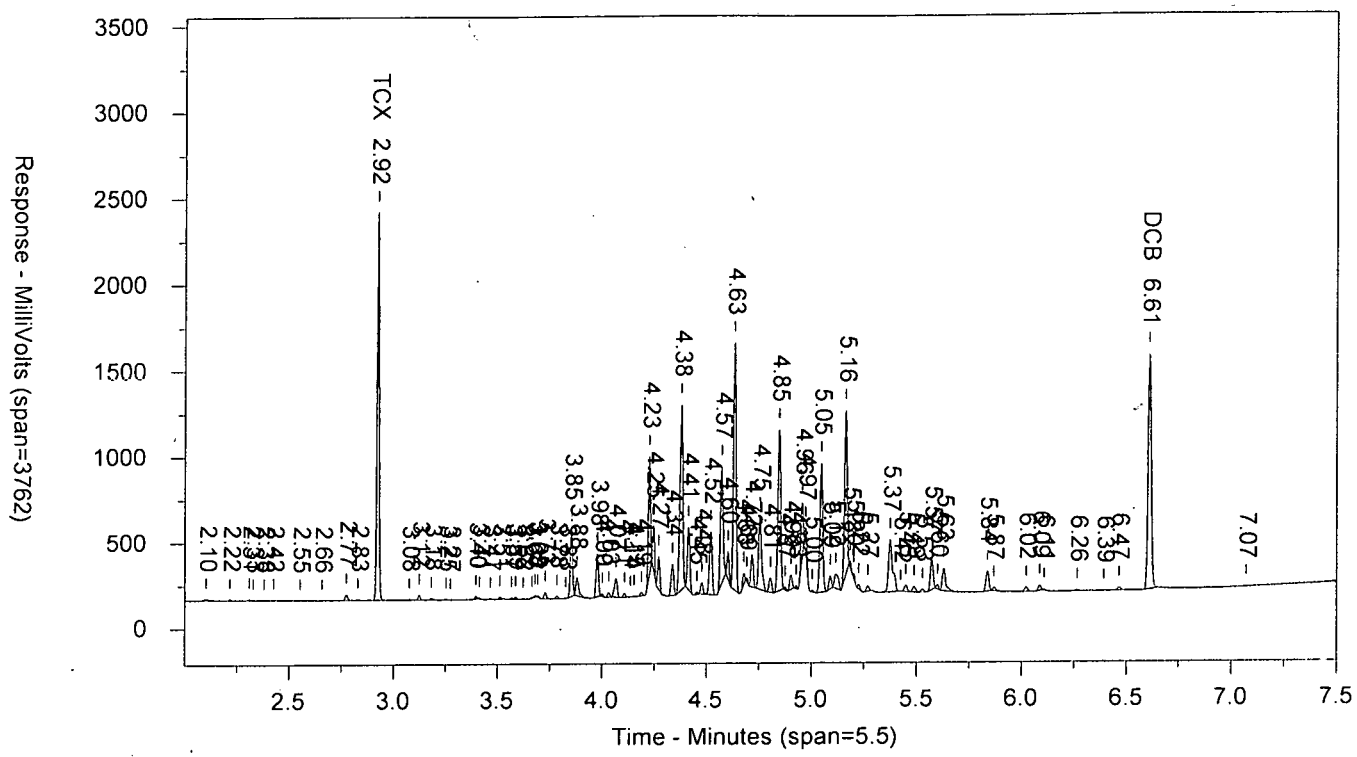

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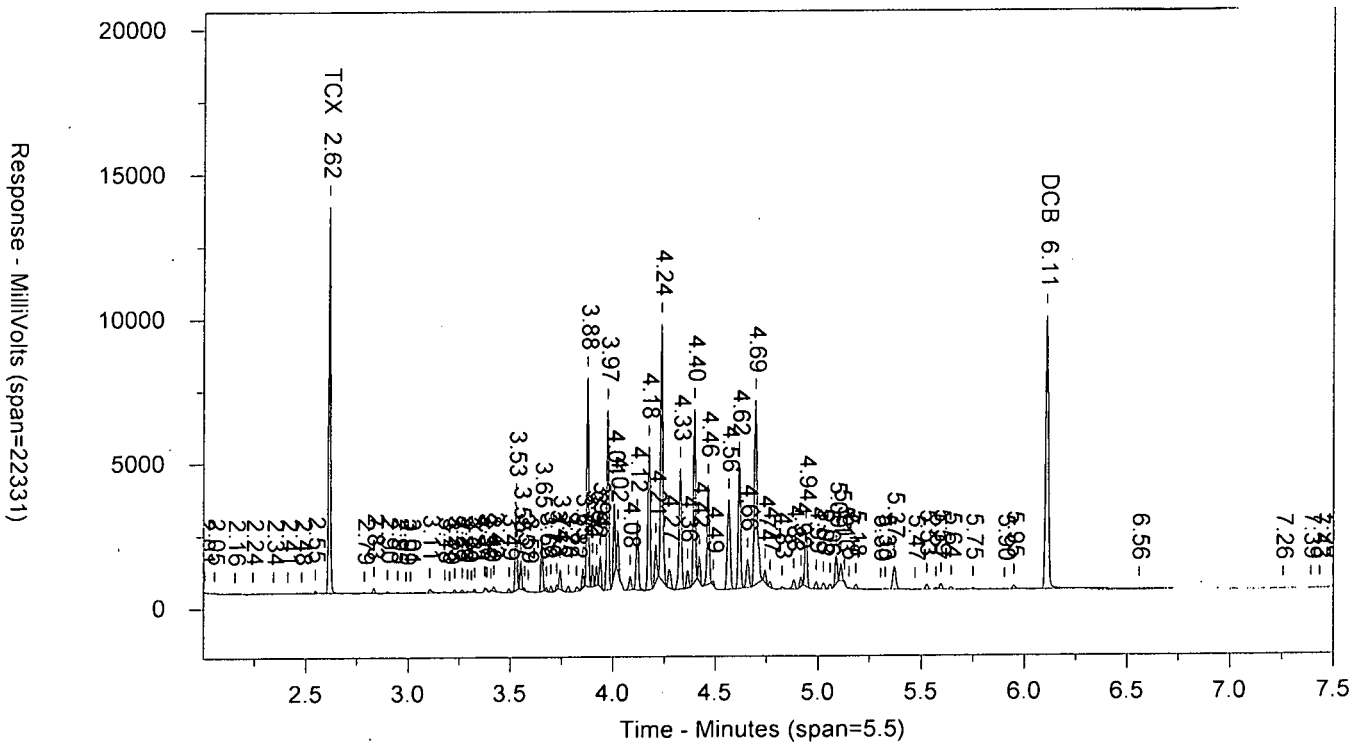

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.020.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10893	16261
2.217		15840	11775
2.309		11511	7045
2.328		5012	3087
2.378		1789	2240
2.423		4888	4279
2.502		1194	1303
2.549		2173	3808
2.66		1269	1822
2.752		1047	600
2.774		35976	30861
2.827		5516	5479
2.923	TCX	4622428	3049151
3.025		1325	637
3.075		6334	5719
3.123		62370	42428
3.181		20468	18131
3.253		9854	6243
3.274		2297	1357
3.395		35703	21314
3.412		9815	4951
3.465		9244	8474
3.511		29492	22808
3.566		15376	8875
3.585		20632	12582
3.622		4838	3183
3.679		23634	11955
3.692		15500	12369
3.728		70887	52340
3.785		30824	24948
3.826		4015	2436
3.852		753146	575967
3.879		198787	186266
3.977		505557	376647
4.001		28866	16947
4.031		52800	38079
4.066		209308	203563
4.106		44927	35681
4.135		3439	1897
4.153		6449	3948
4.188		39069	31310
4.225		1397875	986296
4.246		569564	347253
4.271		376252	278619
4.337		361600	315906
4.378		2073246	2088930
4.414		711435	586208
4.453		28228	18666
4.476		123671	98671
4.519		714338	637132
4.571		1454115	1280410
4.603		344634	222613
4.632		2930175	2488037
4.678		108468	78910

RT A	Compound A	Height A	Area A
4.691		39815	22729
4.716		399436	311468
4.754		849024	843684
4.806		163154	148453
4.847		1875048	1751059
4.875		32686	19003
4.902		165383	138162
4.927		32811	19296
4.954		669621	494398
4.97		291032	187266
5.003		22691	17129
5.047		1628295	1483882
5.09		153726	123954
5.117		173931	227162
5.163		2001599	1758912
5.185		88249	43036
5.202		53422	30192
5.225		44145	27903
5.267		61691	52151
5.288		8136	4461
5.373		610917	814479
5.424		4562	2310
5.448		76463	65490
5.487		65425	60634
5.527		34276	32445
5.572		367441	331086
5.598		49650	33711
5.629		261449	289654
5.838		223253	216316
5.868		37268	38354
6.022		52656	55746
6.086		58070	51787
6.108		12812	8410
6.265		13430	13456
6.327		987	868
6.389		1119	968
6.465		36608	36283
6.611	DCB	2754543	2912875
7.067		2607	3133
7.535		1069	13886
7.755		865	2143
8.047		1008	3167
8.683		5068	6634

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.020.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		17620	17377
2.054		38456	27392
2.155		4019	4695
2.188		9191	14934
2.24		17793	31823
2.299		1977	1315
2.344		1496	1230
2.411		8677	12040
2.478		5551	3978
2.528		12423	10743
2.547		100387	66202
2.575		3152	1620
2.616	TCX	27652480	16267940
2.703		4716	6392
2.787		36548	30574
2.833		356088	230133
2.9		121313	92024
2.949		68635	39434
3.01		15470	11912
3.106		237056	232272
3.158		5166	2089
3.179		67823	44406
3.203		10305	5678
3.228		186176	124481
3.264		164187	96469
3.291		116500	64133
3.31		38852	17929
3.325		65798	35579
3.375		161585	75093
3.385		107011	42685
3.405		101611	43389
3.419		258195	193988
3.493		256194	164512
3.527		5679534	3483755
3.55		1884138	1042507
3.568		182580	79710
3.586		21876	11237
3.654		3898764	2298147
3.676		253902	133868
3.698		390506	263773
3.727		262551	136846
3.743		1321371	780818
3.783		368159	270181
3.824		286717	257782
3.854		1275704	739915
3.876		14644700	9312075
3.901		1548542	851086
3.92		1320641	716244
3.939		2014626	1191342
3.974		13163310	8426518
4.006		4826652	2957029
4.024		2817747	1470969
4.085		919092	684965
4.119		4750180	3462626

RT B	Compound B	Height B	Area B
4.175		10312280	7450167
4.208		2749393	1877903
4.236		18488900	13253560
4.274		1271830	1205357
4.328		8373806	6993500
4.365		1243214	941356
4.397		12655280	8709486
4.421		1713117	1089020
4.464		6931070	5208720
4.489		367058	206310
4.525		3811	3352
4.564		6625378	6093458
4.616		9172670	6996697
4.656		1990523	1700257
4.695		13649340	12767360
4.742		949018	593039
4.765		400240	271787
4.825		159714	185745
4.865		23669	13859
4.882		599034	444047
4.917		610418	413692
4.941		3814174	3079520
4.991		484338	420813
5.026		399824	328461
5.058		306344	259388
5.088		1996266	1446288
5.11		1188487	781885
5.127		155889	78469
5.15		35681	20556
5.184		327861	277829
5.247		6090	5253
5.301		4486	2332
5.326		68338	53436
5.368		1631807	1603161
5.47		6045	6191
5.526		367067	315814
5.57		68840	46475
5.594		378041	314940
5.643		179295	155558
5.75		84635	70893
5.783		5055	5823
5.903		3988	2791
5.949		230784	197382
5.982		5006	3121
6.067		2417	1919
6.108	DCB	20216660	17008200
6.285		5535	8037
6.556		12835	12265
7.327		1831	3407
7.563		1405	4021
7.613		2595	4529
7.701		1029	3163
8.216		15737	28067
8.442		1225	724

AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082

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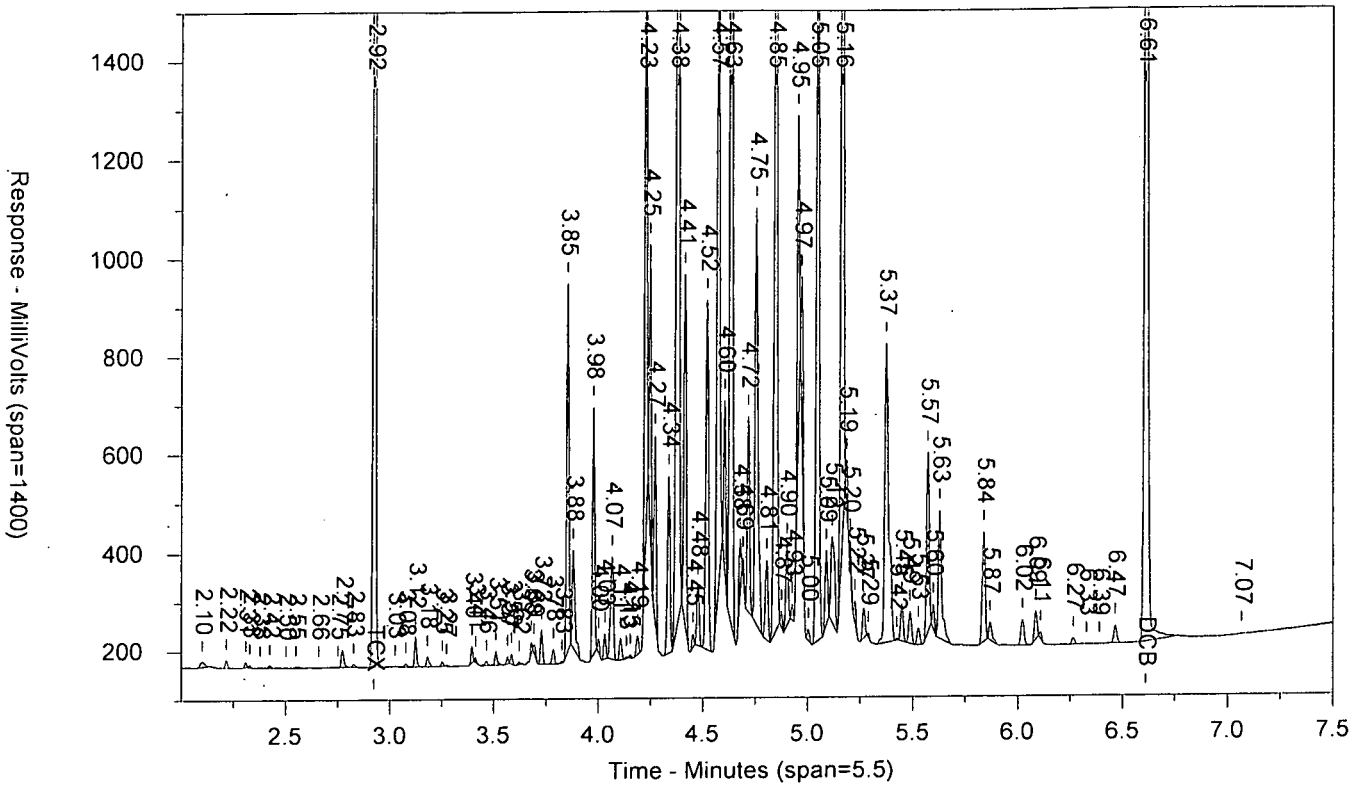

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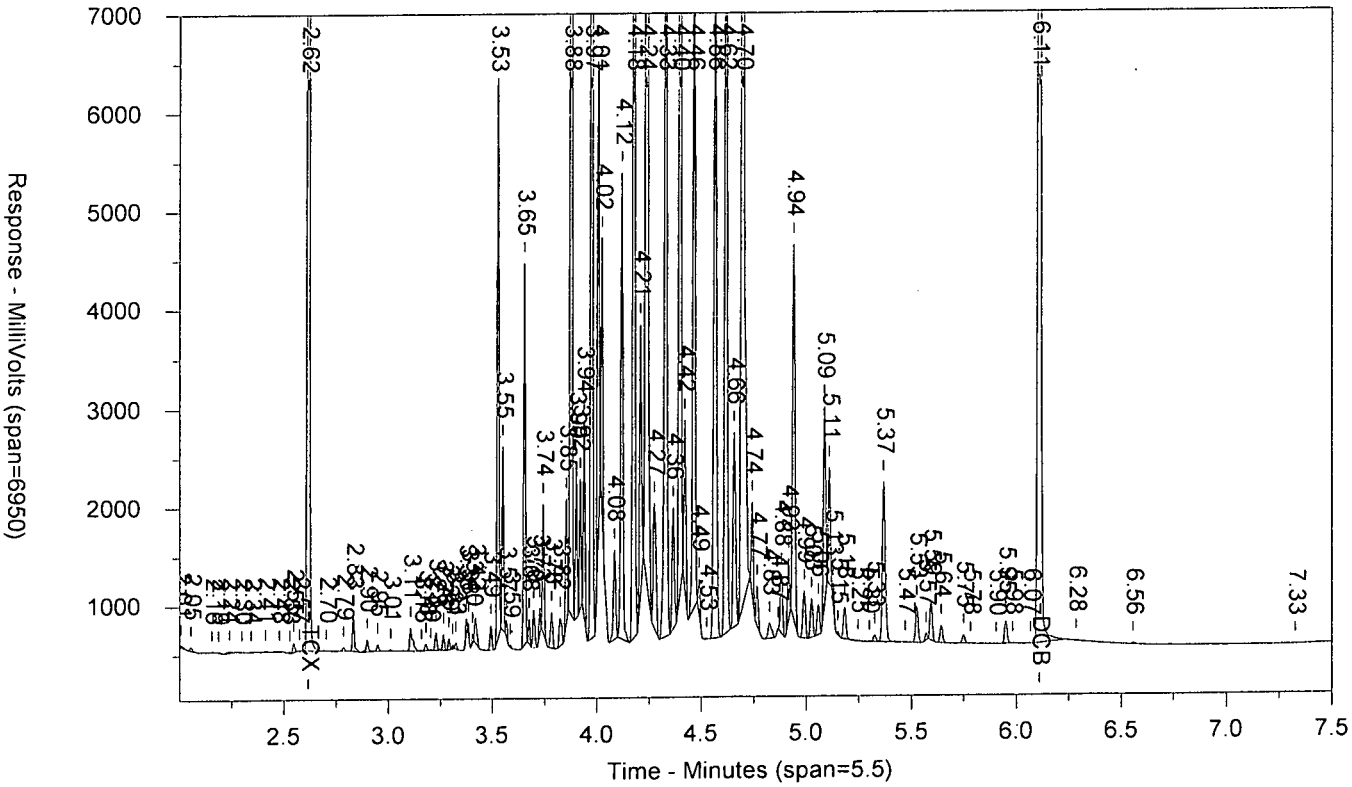

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4622428	40.676	TCX	2.616	27652480	40	TCX
6.611	2754543	40.027	DCB	6.108	20216660	41.497	DCB

Files:
Area File: 20pcbs17137001.020.RAW
Area File: 20pcbs17137001B.020.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:17:56 PM
File Reported On: 5/17/2017 at 8:18:05 PM

AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082

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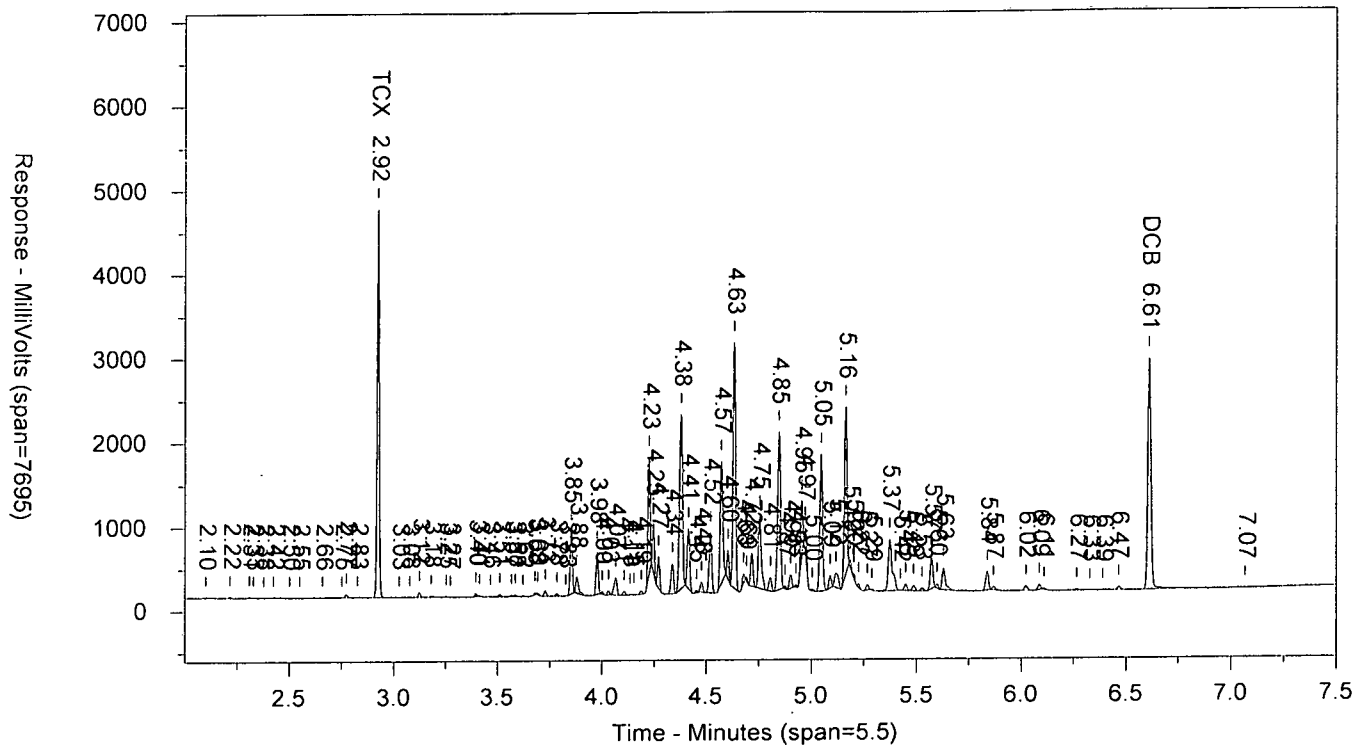

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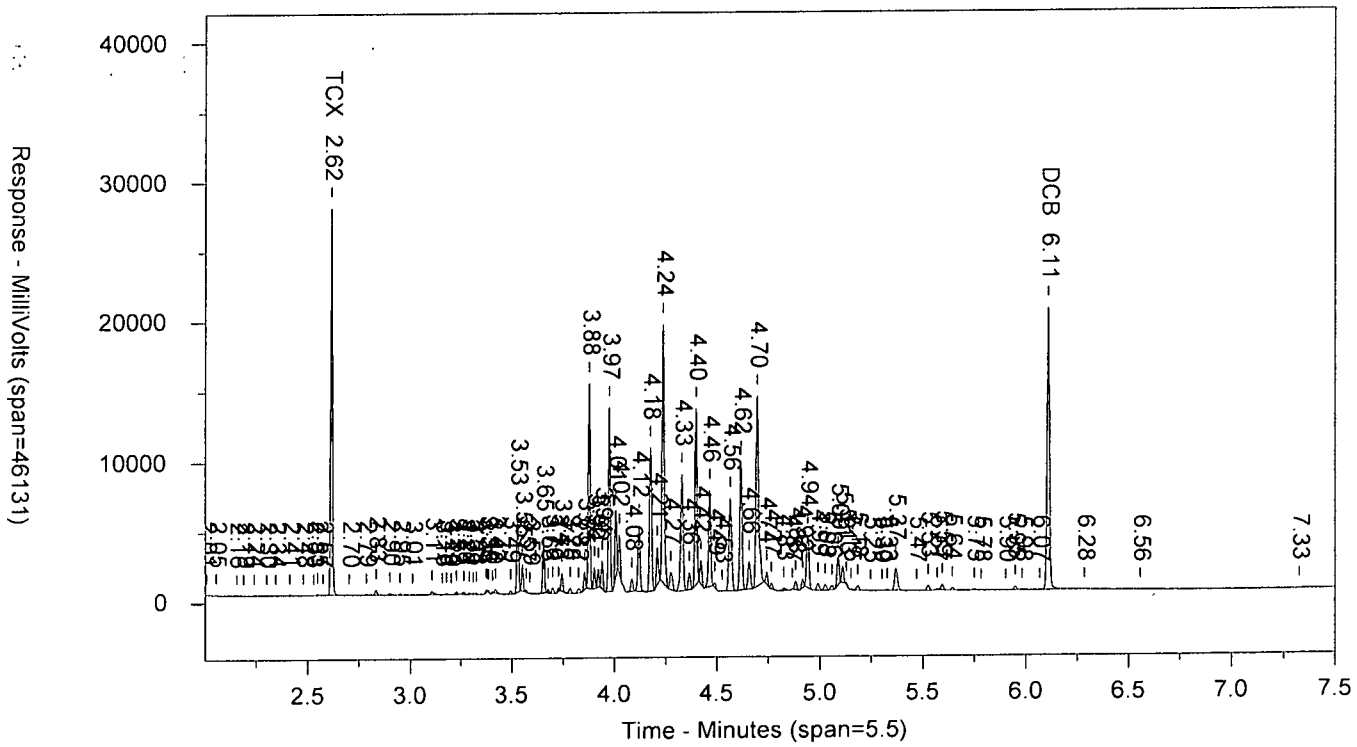

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.021.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10136	15325
2.137		1957	3258
2.217		32849	23103
2.31		7207	4381
2.328		10988	6834
2.382		1602	2039
2.424		2572	2366
2.549		1624	3440
2.657		1341	1181
2.773		29987	25362
2.827		1909	1978
2.923	TCX	9259284	6193316
3.026		2607	1580
3.076		10509	9142
3.123		120236	82777
3.18		39027	28153
3.253		19678	12024
3.274		4272	2700
3.395		60372	37461
3.412		18196	9948
3.448		2865	1390
3.465		15060	9946
3.51		56681	40532
3.566		33433	19529
3.585		37876	23164
3.621		9950	5749
3.68		43973	23366
3.693		35525	25194
3.728		125742	97325
3.784		60070	47004
3.825		7981	4745
3.853		1532901	1125479
3.88		380596	350463
3.926		3710	1750
3.977		976045	734886
4.001		55330	31529
4.031		97929	72461
4.066		427919	389448
4.107		86308	69635
4.136		6966	3783
4.152		16165	9469
4.188		75052	60647
4.225		2731089	1946699
4.246		1144496	683667
4.269		790486	567088
4.336		739600	607952
4.379		4093713	4152217
4.413		1424145	1148958
4.453		52274	34888
4.475		239453	185835
4.519		1455631	1247542
4.57		2937191	2577190
4.602		670780	440816
4.632		5809577	4977570

RT A	Compound A	Height A	Area A
4.677		243803	171373
4.691		97669	45729
4.716		784146	620944
4.753		1662863	1661778
4.804		319262	287793
4.846		3933572	3580532
4.874		57756	34675
4.901		316861	264192
4.927		60640	36337
4.954		1274447	965506
4.971		647030	381250
5.004		40966	30835
5.046		3218600	2999988
5.089		306935	244835
5.116		349882	442785
5.162		4038610	3527055
5.185		188027	89313
5.201		114123	64175
5.224		79894	56442
5.268		111788	96207
5.288		13829	8690
5.373		1291869	1570699
5.422		6682	3441
5.448		132774	121346
5.488		114070	110967
5.528		62883	59688
5.572		727477	644830
5.598		84254	59788
5.63		509696	553492
5.717		2508	3690
5.837		429872	402658
5.869		68788	70812
5.931		2103	2735
6.022		107955	113902
6.086		117120	106905
6.108		23890	15593
6.264		23668	24737
6.309		1654	1362
6.392		1240	1450
6.466		67040	68969
6.612	DCB	5147151	5368635
6.731		1866	2665
7.068		4042	5274
7.303		319	1737
7.352		681	266
7.653		832	19287
7.884		859	6518

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.021.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		10638	12042
2.054		77814	51292
2.149		5862	6383
2.188		6984	10929
2.239		17332	35365
2.3		3397	2988
2.37		2462	4037
2.411		5470	5645
2.48		5040	3816
2.528		13017	12823
2.547		93664	74032
2.592		2366	815
2.615	TCX	56609560	32376670
2.658		13428	5406
2.786		65576	53138
2.813		5414	2081
2.833		682180	426560
2.899		215177	145429
2.949		130969	77774
3.009		28749	18287
3.106		404997	394420
3.156		21809	11762
3.178		112192	67634
3.202		19318	10214
3.227		333181	230191
3.264		287550	171636
3.291		239646	128881
3.31		74069	34075
3.325		91827	46376
3.375		581964	605897
3.404		178530	82558
3.419		532145	398149
3.492		457736	293835
3.527		11258960	6720859
3.55		3588982	1991392
3.568		351071	157140
3.585		49416	24281
3.653		7142227	4449686
3.676		517787	269731
3.697		753186	507537
3.726		485851	252177
3.743		2645388	1536395
3.783		679704	520067
3.823		523346	490609
3.853		2410604	1417336
3.875		27730980	18334860
3.9		2968250	1659925
3.92		2564218	1388273
3.938		4287230	2595155
3.974		24980650	16651260
4.006		10176120	5940632
4.023		5755855	2952326
4.084		1786367	1264167
4.118		9354214	6783653

RT B	Compound B	Height B	Area B
4.175		21603490	15224730
4.208		5907235	4101801
4.236		37174280	26627210
4.273		2352942	2294730
4.328		16637400	13784300
4.364		2533352	1827689
4.397		25147190	17402020
4.42		3311848	2151376
4.463		13831460	10243460
4.489		734415	425084
4.563		12558530	12010650
4.615		17962290	14155920
4.655		3828722	3362585
4.695		27443780	25440620
4.742		1868969	1194516
4.765		735467	508125
4.824		289705	319814
4.865		25567	21894
4.881		1091167	819870
4.916		1131739	765068
4.939		7620935	6025815
4.99		927257	778313
5.026		769163	608975
5.058		560607	482305
5.088		4093819	2970735
5.11		2529016	1634763
5.128		306339	153700
5.151		64936	38326
5.185		676909	590667
5.247		10623	10339
5.303		10013	6473
5.325		127369	103877
5.368		3009745	3032544
5.469		10264	7195
5.526		742030	659992
5.571		114501	78304
5.594		801130	666356
5.643		347988	303371
5.75		162007	133107
5.782		8871	7558
5.9		7131	6381
5.949		448641	385083
5.981		9773	6448
6.002		5818	3916
6.072		3286	2437
6.108	DCB	38010540	31800680
6.281		11103	20464
6.559		25352	24525
7.192		1593	2380
7.322		1349	2370
7.387		1048	2880
7.437		2147	1986
7.61		1867	1935
7.667		1839	2020
8.216		17121	31325

AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082

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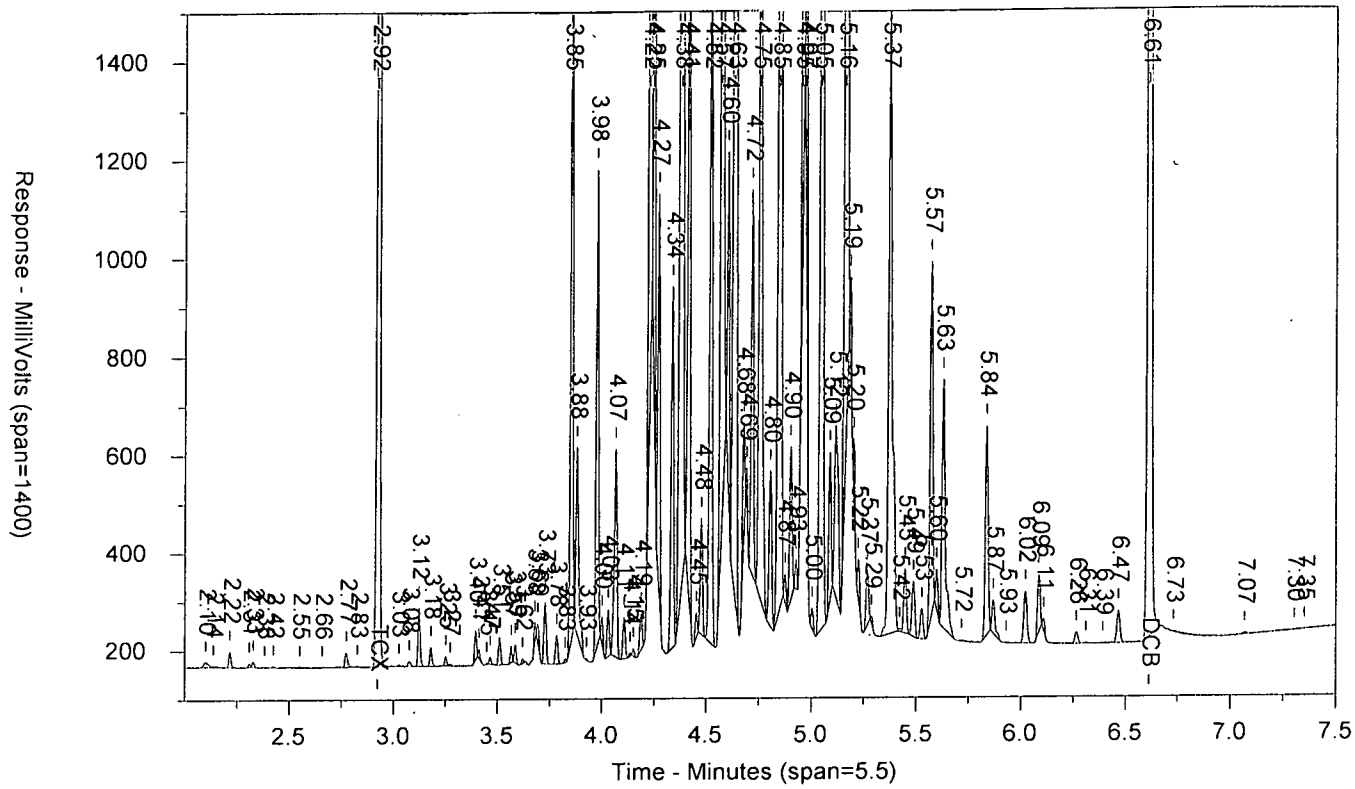

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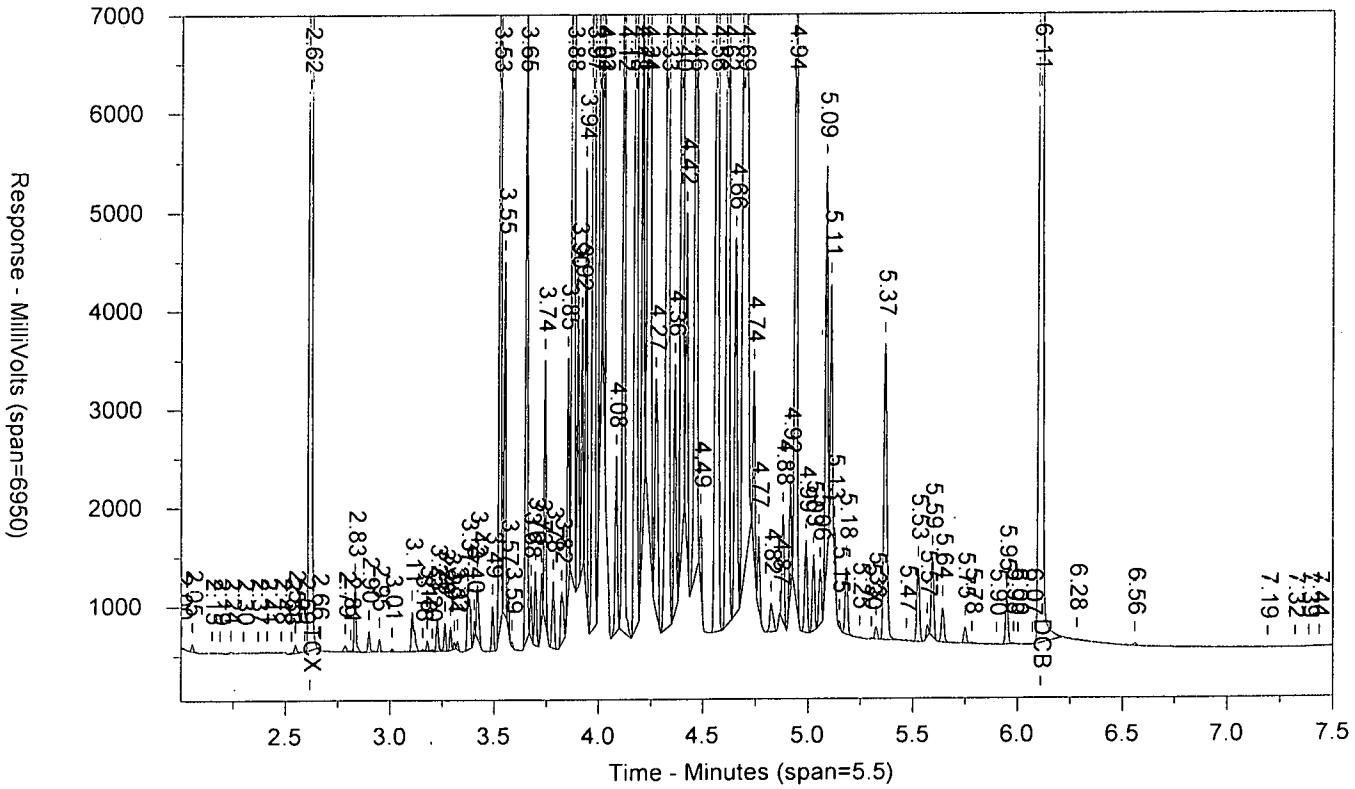

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9259284	81.479	TCX	2.615	56609560	81.888	TCX
6.612	5147151	74.795	DCB	6.108	38010540	78.022	DCB

Files:
Area File: 20pcbs17137001.021.RAW
Area File: 20pcbs17137001B.021.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:29:14 PM
File Reported On: 5/17/2017 at 8:29:21 PM

AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082

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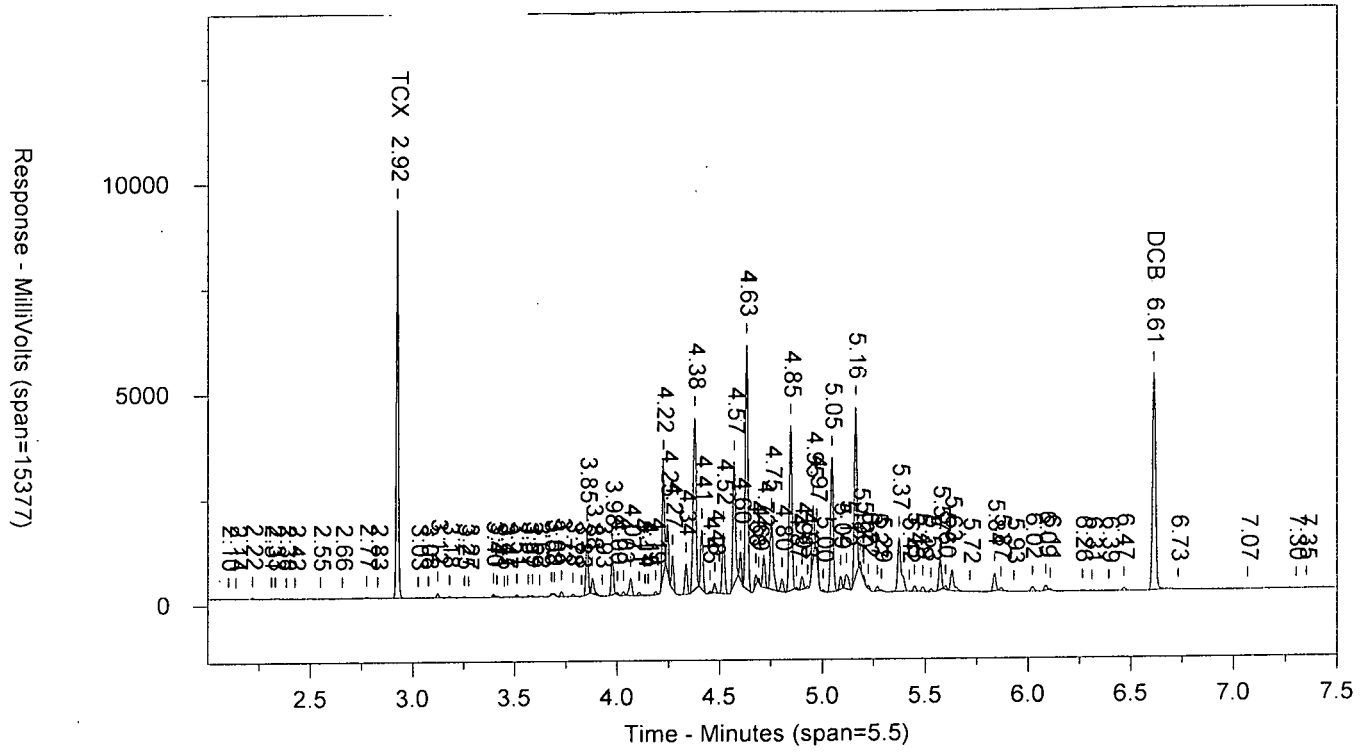

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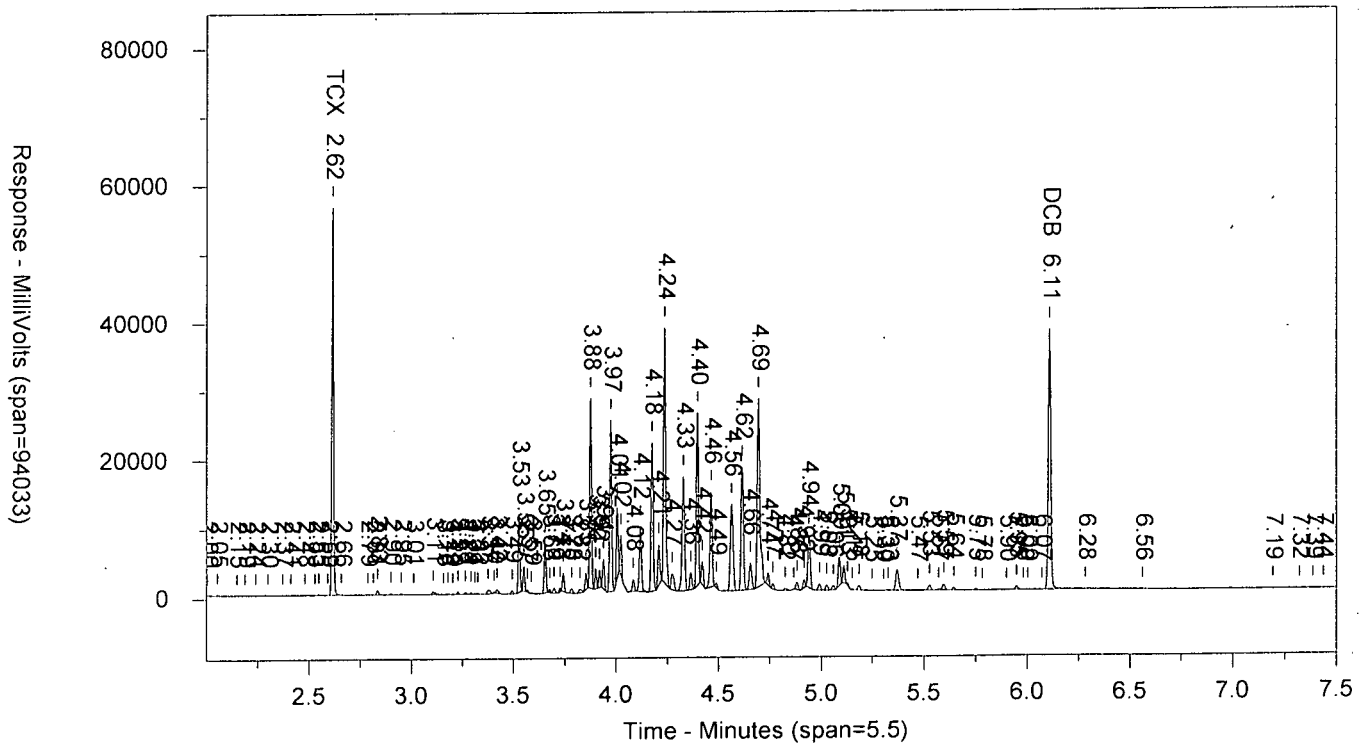

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.022.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		9580	23702
2.272		2325	2192
2.309		15044	10701
2.38		1413	1869
2.424		4784	4863
2.549		3766	3540
2.584		3914	2183
2.661		1147	1185
2.688		1238	1091
2.774		37604	32514
2.829		5762	5425
2.9		2343	1547
2.925	TCX	1265	1545
3.076		2332	2485
3.133		2147	1611
3.182		14045	14219
3.277		3164	2490
3.396		14661	8914
3.413		5700	2905
3.449		1395	677
3.492		867	472
3.512		14267	8818
3.586		4442	3265
3.622		2914	1640
3.681		6421	2797
3.692		12910	6529
3.729		21262	15246
3.753		4380	2682
3.787		14699	10051
3.812		5651	4317
3.854		18396	13941
3.889		20870	22396
3.92		1566	1535
3.979		16997	15243
4.032		3336	2413
4.068		12551	16739
4.108		3914	3096
4.169		1221	1618
4.189		7024	4631
4.227		101790	85416
4.247		11395	5791
4.27		13417	9012
4.296		6590	5003
4.338		6602	4187
4.359		18999	12025
4.381		124969	104924
4.414		11606	8098
4.453		6869	4821
4.479		24324	20451
4.516		70223	68842
4.587		112833	135698
4.634		66670	57095
4.679		414120	413412
4.717		68078	49803

RT A	Compound A	Height A	Area A
4.756		669409	619595
4.797		20130	18151
4.846		43633	52100
4.878		11216	7414
4.903		76464	70028
4.956		732300	823498
5.005		337470	318742
5.049		319460	391160
5.105		53406	46255
5.128		23137	15279
5.162		578594	631288
5.203		10250	4979
5.225		1002432	922537
5.27		415826	409892
5.364		140912	108881
5.39		809822	830745
5.449		340075	291484
5.47		17892	7063
5.489		94761	72627
5.531		37279	33021
5.553		1619	689
5.575		135463	124638
5.63		1957322	2075627
5.834		1081708	1184801
5.891		535861	881602
6.023		56214	56618
6.087		16088	11269
6.109		252924	224638
6.267		651921	660170
6.312		38215	53621
6.466		241916	250989
6.611	DCB	6683	6850
6.644		981	815
7.185		853	7815
7.564		619	4927
8.087		1111	6097
8.184		997	4562
8.683		3370	3104

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.022.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		6712	5695
2.082		8236	6411
2.156		6846	7445
2.238		16645	30193
2.345		31043	22180
2.412		17096	18827
2.475		6711	10859
2.53		15682	8915
2.547		104133	78978
2.59	TCX	4138	4616
2.645		14023	11284
2.696		4157	9385
2.785		9224	6312
2.847		18424	16327
2.899		77208	58976
2.922		4334	1890
2.984		10202	6345
3.01		9433	6048
3.105		110047	122576
3.18		21644	19348
3.202		6711	3373
3.227		102144	68164
3.264		32612	20047
3.309		23071	10959
3.325		55681	30451
3.354		8439	4422
3.375		55743	26361
3.385		91280	39251
3.418		99711	89717
3.451		4412	2199
3.493		121870	98875
3.527		103594	53100
3.551		184101	111025
3.58		48747	39172
3.61		35902	21056
3.654		122840	73285
3.674		61398	33483
3.698		37603	23374
3.727		69786	37999
3.743		67609	38051
3.783		39874	33266
3.831		82448	82190
3.86		36201	27912
3.876		785265	500722
3.901		80511	45580
3.921		21514	10753
3.939		66402	39943
3.974		885799	614789
4.008		117386	74958
4.035		278568	216640
4.058		16611	7908
4.071		177477	115310
4.11		370790	344837
4.152		20032	11490

RT B	Compound B	Height B	Area B
4.175		190938	132370
4.218		460868	314325
4.25		2580708	1911976
4.276		667678	680248
4.328		4377388	3375554
4.369		140668	104106
4.397		173234	127479
4.422		643408	497810
4.465		4869363	3784974
4.525		3471	4695
4.568		4600259	4096827
4.621		834799	675650
4.66		1361553	1116638
4.695		3029463	2540303
4.728		6508425	5086081
4.766		3300506	2621874
4.823		5346	3391
4.866		1395086	1165309
4.916		6474238	5652151
4.99		2538959	2581296
5.027		848939	638623
5.056		749016	616201
5.088		27549	19505
5.111		12314600	10191220
5.151		219262	163912
5.184		837725	705775
5.259		4324	3395
5.303		219683	140021
5.326		5102819	4118445
5.374		8213507	8400974
5.527		387830	338255
5.572		61504	42127
5.595		245012	199588
5.644		1851441	1631078
5.75		4445079	3845746
5.781		224678	160141
5.95		1767900	1579581
6.108	DCB	48228	43930
6.284		6197	5048
7.326		1897	4203
7.622		2046	4034
7.66		1741	1302
7.787		2571	11436
8.214		16572	30496

AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082

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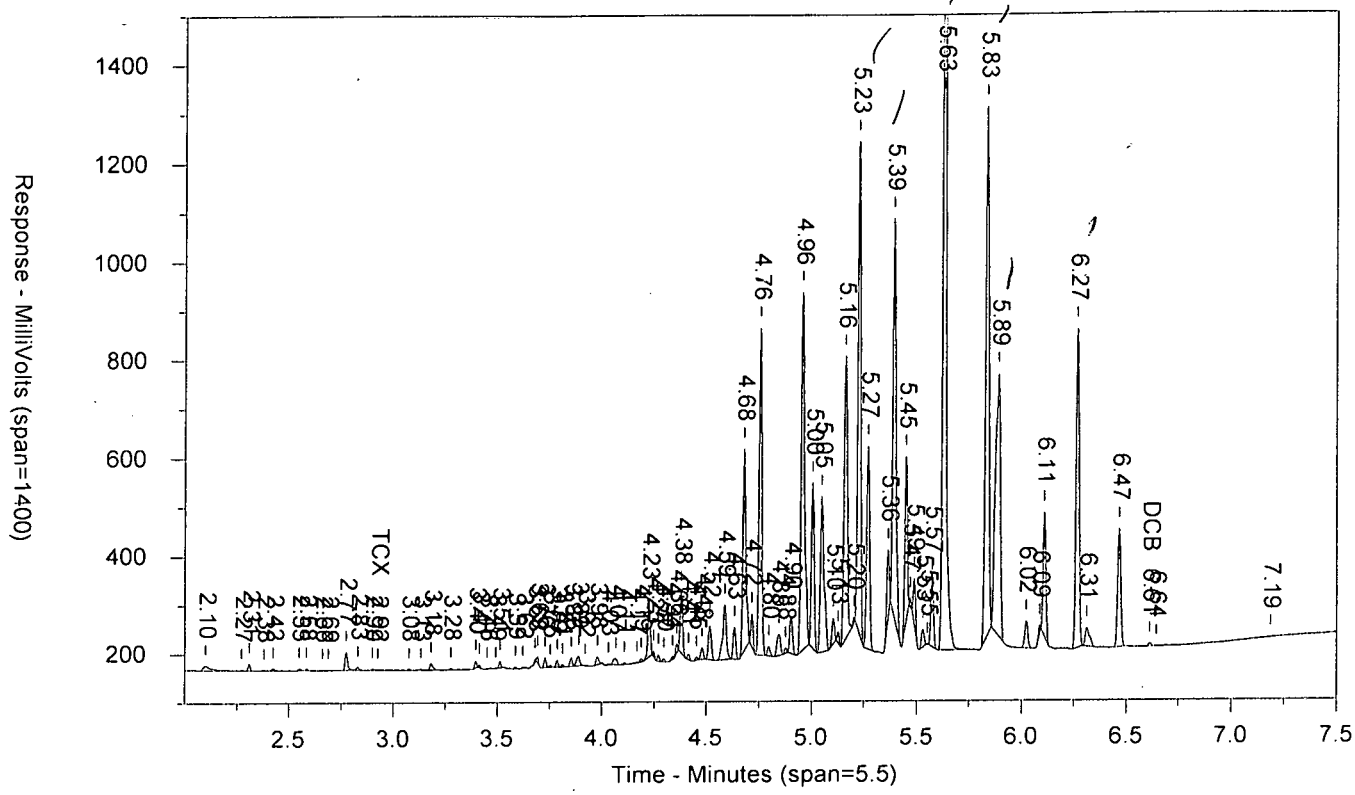

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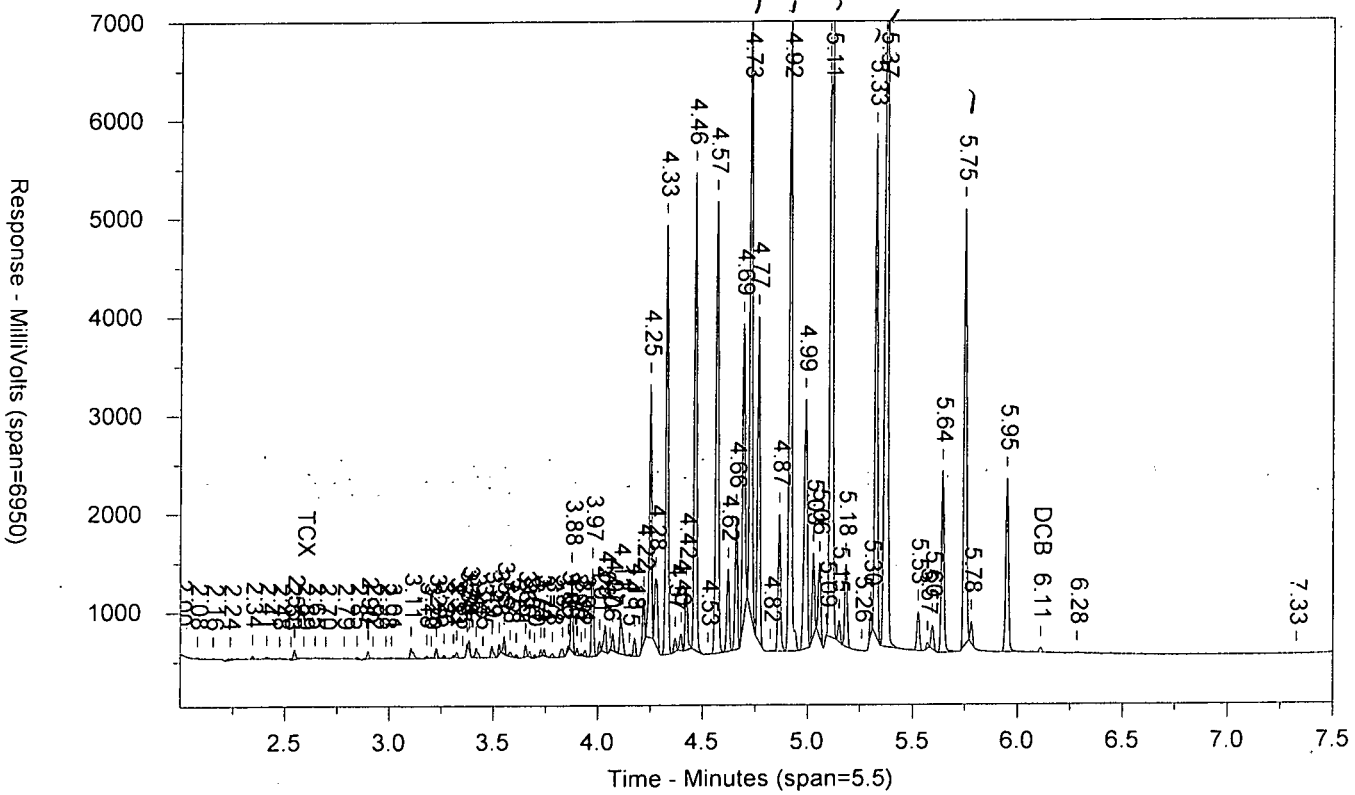

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	1265	.011	TCX	2.59	4138	.006	TCX
6.611	6683	.097	DCB	6.108	48228	.099	DCB

Files:
Area File: 20pcbs17137001.022.RAW
Area File: 20pcbs17137001B.022.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:40:39 PM
File Reported On: 5/17/2017 at 8:40:49 PM

AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082

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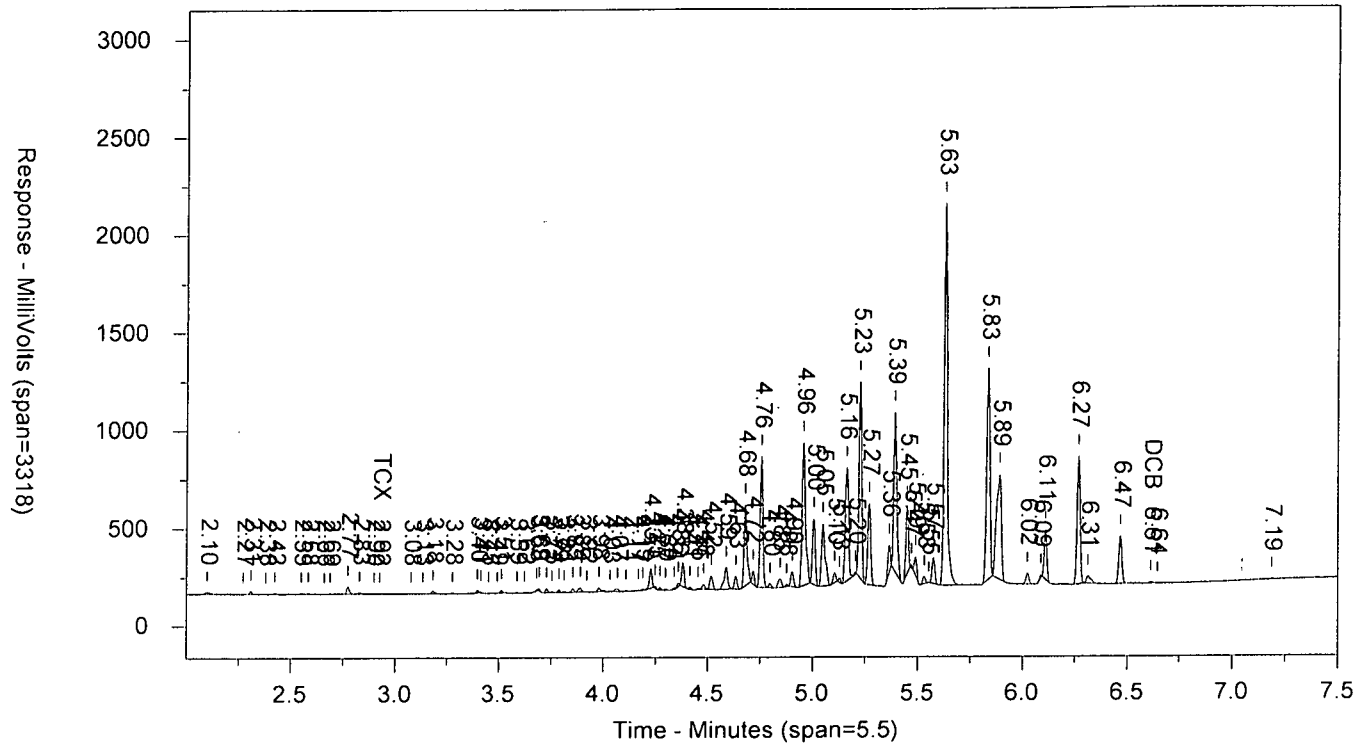

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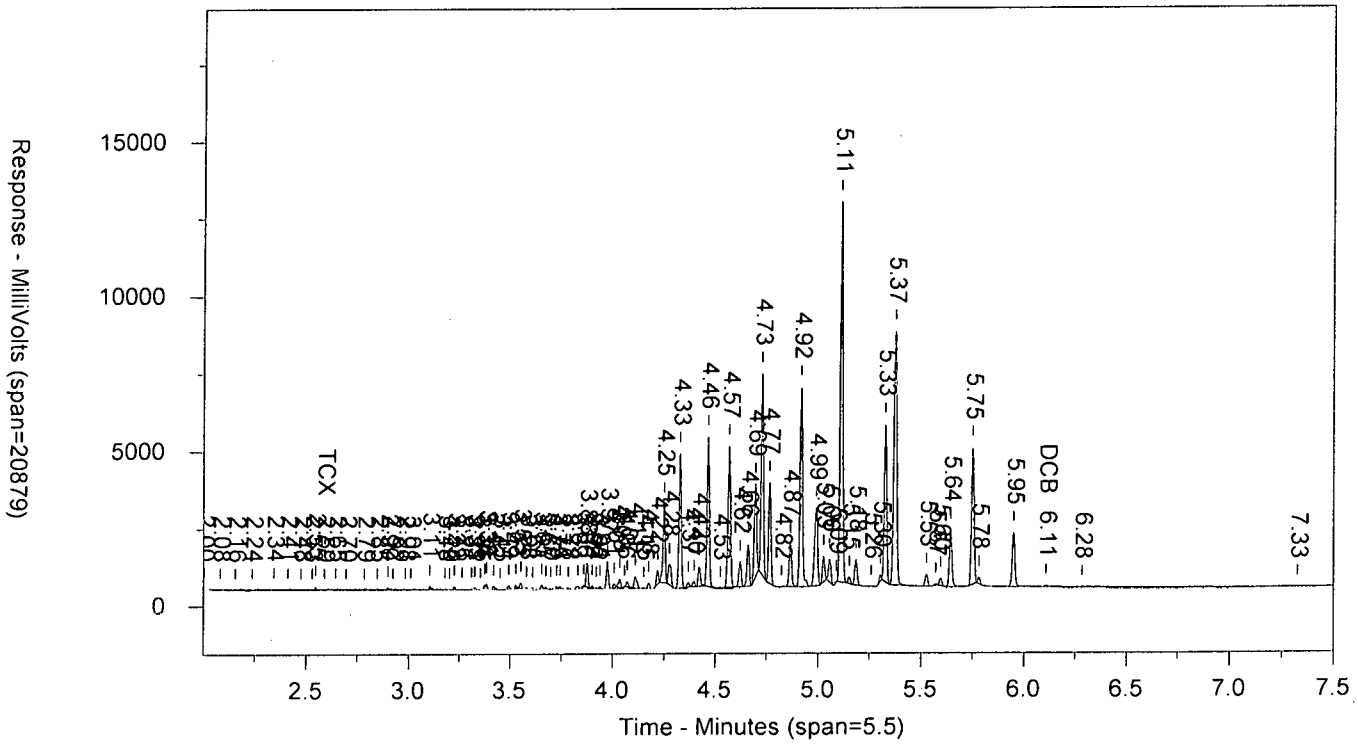

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.023.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.009		673	441
2.1		17338	39268
2.31		15555	10909
2.38		1656	1983
2.425		5499	5019
2.549		1604	1406
2.66		1451	1304
2.753		782	410
2.774		41198	35401
2.828		5683	5165
3.192		6115	6799
3.397		3498	2331
3.493		1036	558
3.512		2959	1653
3.531		2441	2003
3.587		1284	1199
3.623		1125	1188
3.667		1941	1310
3.681		2130	952
3.693		3182	1626
3.73		6662	5652
3.788		4605	4247
3.853		6147	6411
3.889		4508	5190
3.979		5617	3888
4.003		2367	1441
4.033		2138	1364
4.069		6233	7594
4.109		3528	3137
4.172		1336	1076
4.189		3232	1904
4.223		10238	13920
4.247		10674	6779
4.27		9116	5519
4.297		7978	6831
4.327		872	814
4.377		13432	10564
4.399		3520	2143
4.473		6198	5777
4.516		43448	44026
4.573		12186	11143
4.634		6338	5529
4.679		6266	6093
4.719		9664	8073
4.756		15389	13703
4.798		35412	32710
4.842		16121	17384
4.879		52062	45422
4.92		3808	3902
4.957		5767	4221
5.005		50320	45962
5.049		14371	20116
5.092		1282	685
5.119		23324	22038

RT A	Compound A	Height A	Area A
5.159		21173	21187
5.205		19574	13064
5.226		388389	354919
5.27		41378	41995
5.365		33355	27563
5.405		511868	625569
5.471		161593	187229
5.53		57695	59086
5.576		10572	10213
5.63		164526	128505
5.651		107210	80131
5.832		2407763	2419411
5.892		2100808	2311303
6.022		1958924	1941615
6.087		449104	398307
6.108		27498	19316
6.267		809132	798137
6.313		5137	3780
6.343		2719	2839
6.466		6332050	6342311
6.613	DCB	1236467	1264548
6.69		4092	3746
6.931		2872	3623
7.275		831	14575
7.608		649	631
7.674		729	715
7.787		1113	630
8.227		803	3921
8.305		685	567
8.356		527	952

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.023.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		21241	16823
2.156		5306	4126
2.24		17166	30705
2.343		2269	1469
2.367		2996	2539
2.411		8424	9386
2.479		11902	26723
2.53		14069	13108
2.547		116581	93946
2.629	TCX	2736	1880
2.703		4776	16369
2.799		3779	3230
2.9		16664	22510
2.988		2732	1622
3.106		26538	44021
3.182		15285	17140
3.228		26898	18718
3.265		8538	6302
3.311		3843	1613
3.326		29643	17278
3.355		4169	2350
3.375		16702	8217
3.385		25882	10490
3.417		21484	18108
3.45		3917	2112
3.493		38800	25695
3.528		39744	23115
3.552		54148	31220
3.569		7386	2764
3.586		18816	16536
3.655		55143	34610
3.676		18057	12099
3.701		29240	20635
3.728		25152	12855
3.745		39765	22561
3.785		29057	21600
3.832		77279	61235
3.86		49242	40158
3.878		85619	51243
3.902		71738	43241
3.922		4082	1856
3.976		25514	27207
4.011		53779	33346
4.025		8303	2706
4.038		25781	13183
4.073		42858	29449
4.091		15089	6846
4.11		229867	192773
4.153		57525	37464
4.174		17046	8718
4.208		17671	18025
4.237		23245	13132
4.251		25735	13078
4.281		12734	12271

RT B	Compound B	Height B	Area B
4.33		151608	134535
4.369		232064	171839
4.397		34429	23376
4.421		54921	32268
4.441		310657	216825
4.465		34905	18674
4.523		3829	4068
4.568		383299	324483
4.62		101858	89177
4.666		172511	178441
4.697		74599	55370
4.728		2738061	2497022
4.766		231697	165698
4.839		5167	5691
4.866		298313	244272
4.916		4161403	3553631
4.944		53763	31834
4.983		1120441	1051110
5.027		23600	13600
5.043		12475	6370
5.062		284608	233537
5.111		1539656	1321321
5.185		1328754	1125488
5.264		8708	6939
5.303		155026	100515
5.327		16635460	13829890
5.374		16842710	14298820
5.527		14469800	12037960
5.594		3498455	3122866
5.644		725776	615375
5.75		5669355	4950070
5.874		24072	26744
5.95		43087670	37186810
6.108	DCB	8495542	7577039
6.255		3297	1077
6.281		24491	24200
6.447		20171	16697
7.029		2050	1964
7.296		1800	720
7.68		1734	17182
8.063		1991	2614
8.131		1496	876
8.216		16946	29976

AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082

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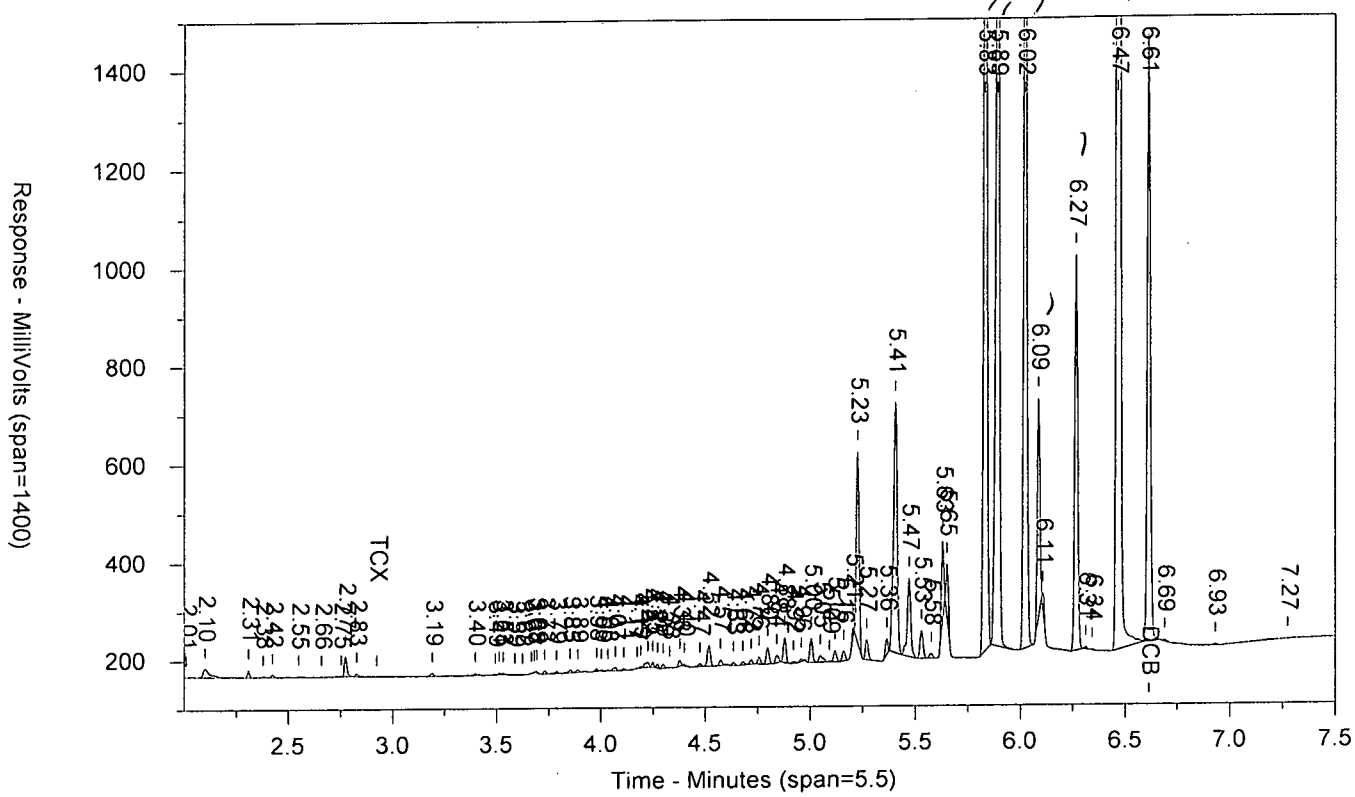

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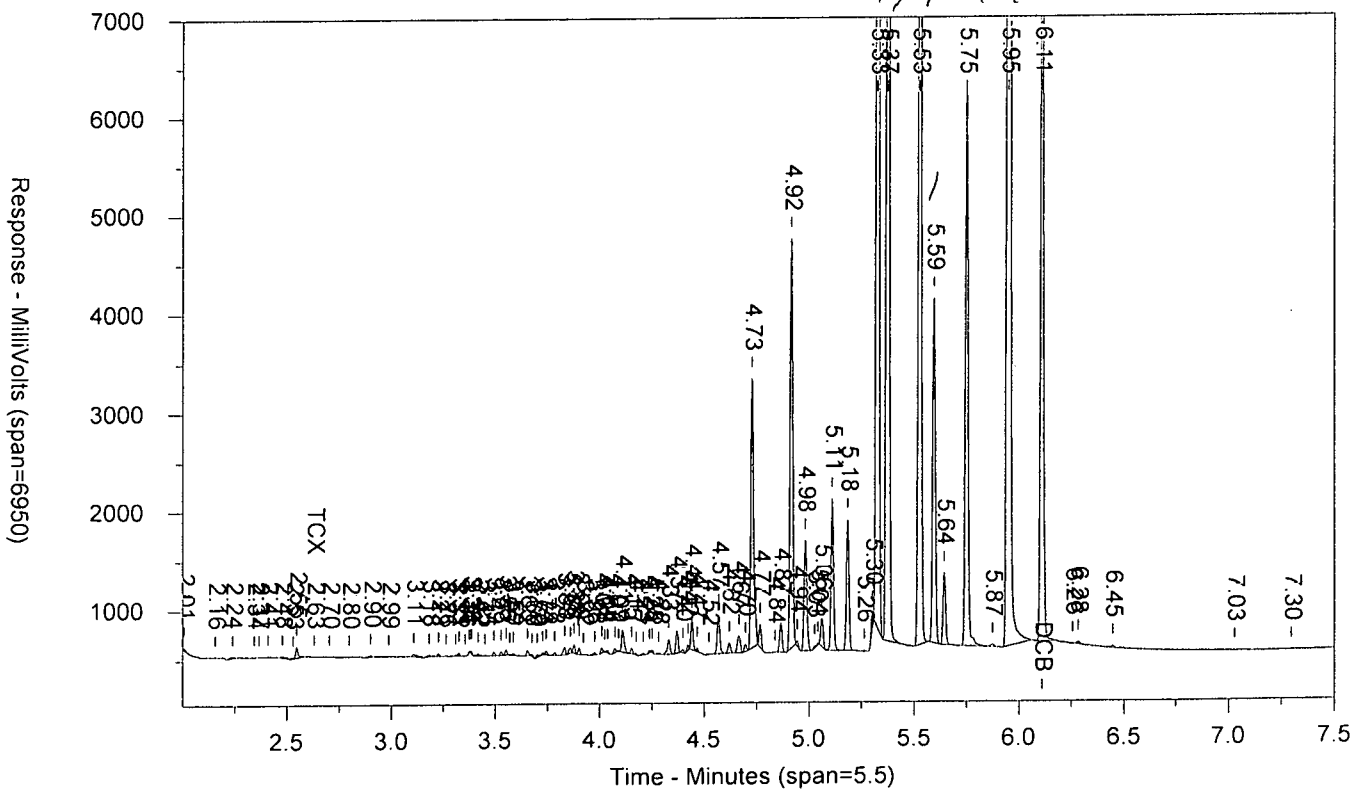

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
	0		TCX	2.629	2736	.004	TCX
6.613	1236467	17.968	DCB	6.108	8495542	17.438	DCB

Files:
Area File: 20pcbs17137001.023.RAW
Area File: 20pcbs17137001B.023.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:52:06 PM
File Reported On: 5/17/2017 at 8:52:15 PM

AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082

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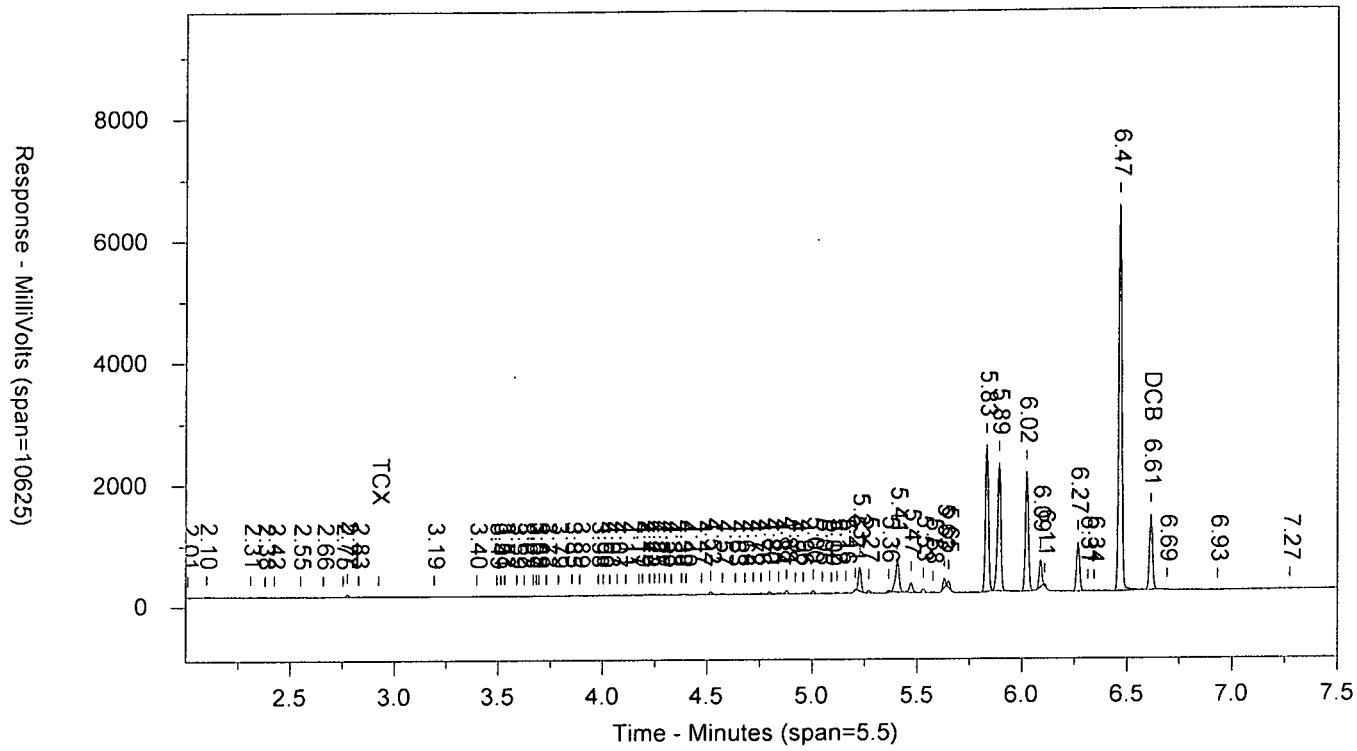

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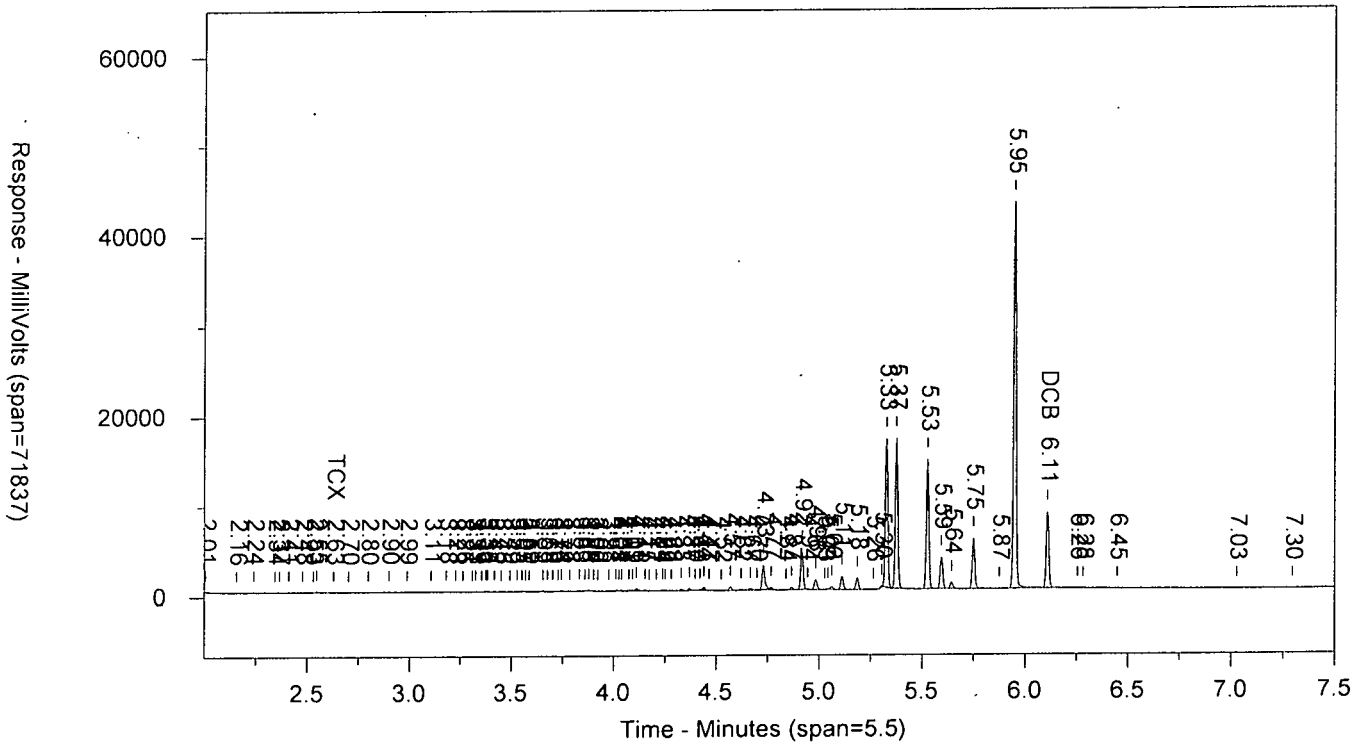


LANCASTER LABORATORIES

Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.024.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		4572	7710
2.142		1563	4264
2.217		17679	14687
2.31		10780	6546
2.329		5646	3182
2.377		1391	1722
2.425		3198	2818
2.503		1993	2027
2.565		151640	111900
2.658		1251	1083
2.72		1072	1184
2.775		13454	9980
2.805		1658	894
2.843		53426	38394
2.924	TCX	4680481	3111497
3.027		1600	1442
3.078		196682	164416
3.134		170034	152109
3.182		549305	393201
3.254		9573	5778
3.276		3519	2126
3.36		853	526
3.396		29015	16797
3.415		5791	3146
3.434		6904	2521
3.483		67088	47206
3.512		33523	24930
3.568		16899	10150
3.587		2190	1108
3.623		6802	3859
3.638		6472	3582
3.666		3977	2418
3.682		11697	5616
3.693		28410	14798
3.73		42442	30933
3.788		24781	17284
3.829		588	340
3.855		13611	10857
3.882		5143	3864
3.979		8926	6249
4.004		2943	2271
4.034		1953	1487
4.072		13286	12215
4.109		2426	2321
4.174		1203	1272
4.189		1578	1091
4.227		16264	11346
4.247		8605	5338
4.271		8639	5333
4.298		7383	6439
4.337		3057	2644
4.379		18518	17458
4.415		3740	2309
4.452		1694	1407

RT A	Compound A	Height A	Area A
4.483		1711	1611
4.52		7651	8534
4.573		14036	12201
4.604		2731	1821
4.634		21031	18316
4.68		3493	3789
4.717		4143	3395
4.756		7189	7143
4.804		1370	1422
4.848		12862	11836
4.878		18465	15543
4.923		1899	1510
4.955		4872	3690
5.005		3315	3483
5.047		9139	11031
5.118		35724	34192
5.164		10634	9338
5.205		2941	2222
5.374		2093	1630
5.45		961	1935
5.531		29435	29630
5.575		1388	1111
5.652		53840	55137
5.687		2489	2036
5.838		4293	4820
5.882		1815	2208
5.927		1419	1391
6.024		54350	57310
6.088		55010	48004
6.109		8149	5036
6.228		3426	28421
6.264		1209	1221
6.306		949	1527
6.391		2096	2977
6.437		814	675
6.467		34476	35645
6.511		1095	1373
6.613	DCB	2752742	2865048
6.995		1072	1178
7.069		2262	2787
7.21		1048	4020
7.349		378	3159
7.822		761	1577
8.119		794	6225
8.297		784	725
8.681		2496	3556

LANCASTER LABORATORIES

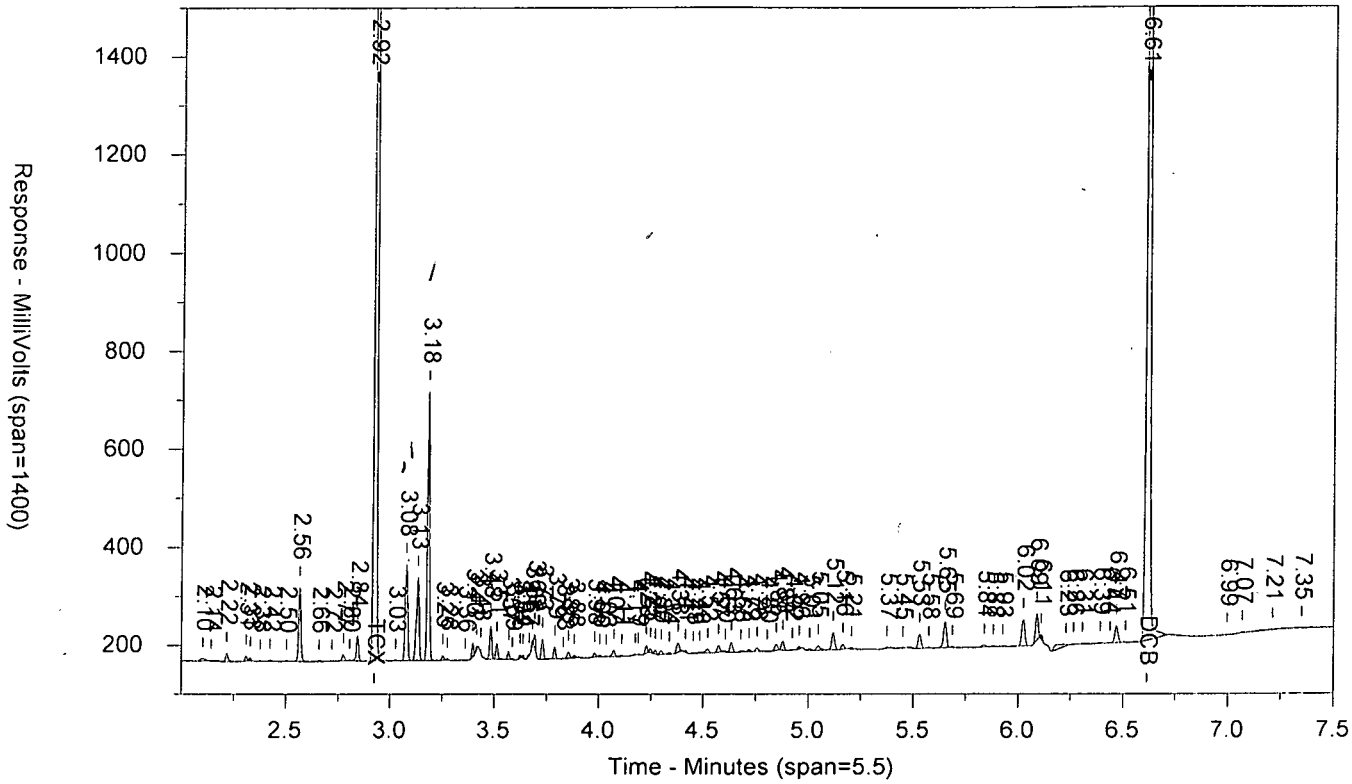
Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.024.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		4036	2981
2.054		40953	28314
2.156		8959	8987
2.186		2457	948
2.203		13983	7041
2.237		14579	20349
2.271		4019	2351
2.3		704555	472893
2.411		7366	9304
2.452		2827	1411
2.48		4688	3264
2.527		15530	13055
2.547		43121	22290
2.571		230802	143219
2.615	TCX	28055290	16465540
2.658		286031	234623
2.702		4056	4250
2.786		1194106	778645
2.833		231757	101827
2.847		736099	395517
2.899		3053589	1839786
2.949		69187	46558
2.989		6744	4763
3.01		25064	14682
3.086		9347	4909
3.106		121257	60016
3.117		36629	11638
3.125		62700	22754
3.147		106755	67850
3.178		27245	18562
3.203		390349	225446
3.227		218594	135171
3.265		27823	17612
3.292		124082	66259
3.31		57191	26368
3.326		135316	72334
3.354		18589	10105
3.376		81932	43772
3.385		216747	98762
3.419		224355	168101
3.451		5846	3583
3.493		204600	133431
3.528		84436	48442
3.551		58992	39284
3.569		13215	6047
3.591		5320	10570
3.655		75645	49602
3.677		25667	13336
3.701		26111	19510
3.728		16658	8133
3.745		99155	59336
3.785		19513	13885
3.838		7630	7845
3.854		32342	17897

RT B	Compound B	Height B	Area B
3.877		172910	110983
3.902		57909	34120
3.922		11048	5098
3.939		21992	12070
3.976		107701	69167
4.009		52939	31551
4.026		25566	28941
4.073		65790	61450
4.12		40859	30622
4.152		22822	14544
4.177		74028	49635
4.209		21468	14022
4.238		140921	111153
4.275		10296	10017
4.33		75325	65727
4.368		10668	8051
4.398		73090	49620
4.423		9067	4949
4.44		119500	80027
4.466		39128	27932
4.521		6007	5825
4.566		51654	69490
4.619		44657	39400
4.669		215823	163523
4.696		59722	48015
4.728		3308	1373
4.743		8795	5267
4.766		6301	6950
4.842		11544	12237
4.918		22330	17424
4.943		17297	12675
4.986		23685	25441
5.028		7227	5075
5.062		168673	141608
5.089		4361	1936
5.112		13728	9531
5.185		347217	304392
5.246		17159	16026
5.31		3544	3340
5.326		21138	85744
5.407		30499	83631
5.473		11423	23187
5.528		388964	334508
5.596		449616	386798
5.644		140753	120225
5.78		4264	10519
5.859		6935	17558
5.905		6385	6526
5.95		236036	198178
5.981		9435	6459
6.074		1835	1672
6.109	DCB	18941510	16489520
6.172		5903	3498
6.246		5102	5751
6.291		6930	15620
6.56		16141	15277
6.737		4865	10420
6.769		1575	1396
7.216		1490	4100
7.552		1572	3302
7.681		1797	4206
7.728		2424	4355
8.215		14414	26496

AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.024.RAW



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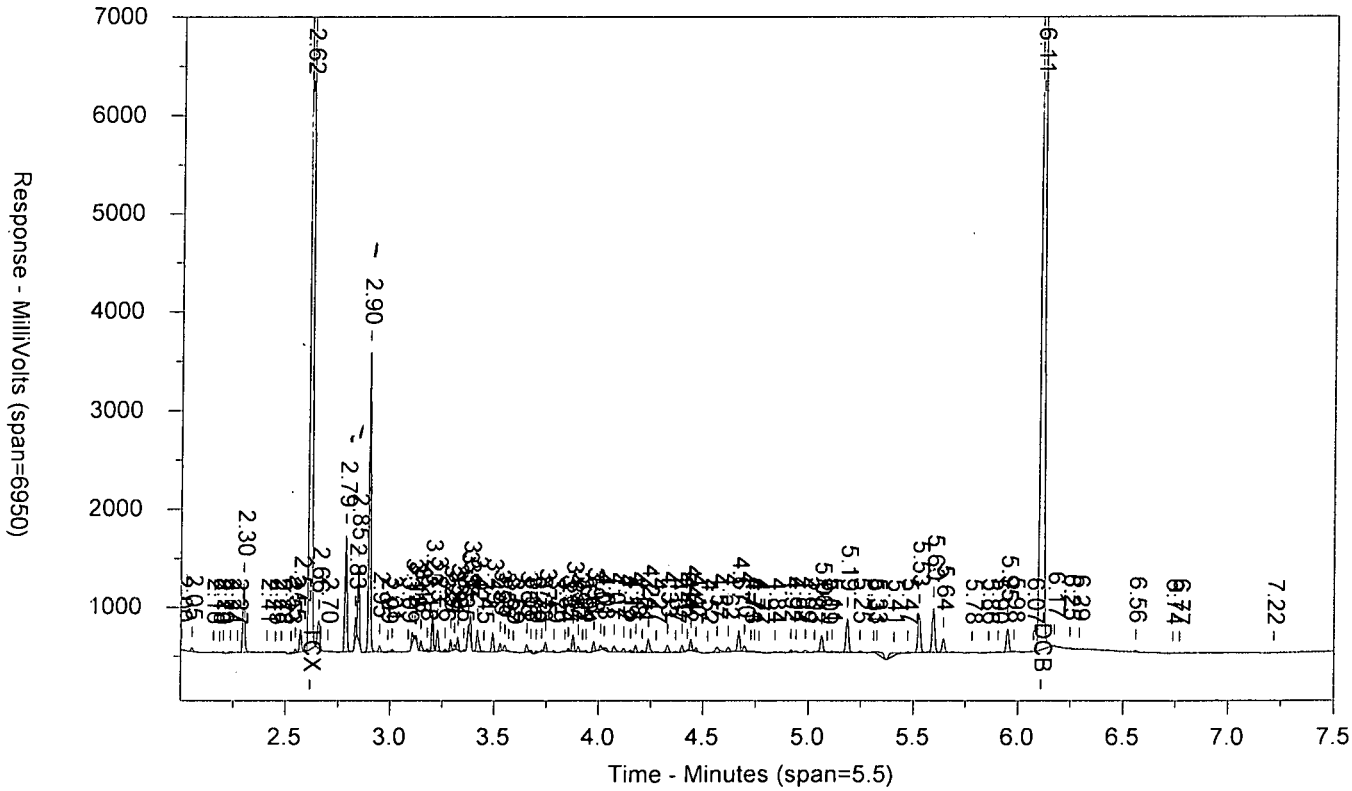

LANCASTER LABORATORIES

Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4680481	41.187	TCX	2.615	28055290	40.583	TCX
6.613	2752742	40.001	DCB	6.109	18941510	38.88	DCB

Files:
Area File: 20pcbs17137001.024.RAW
Area File: 20pcbs17137001B.024.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:03:38 PM
File Reported On: 5/17/2017 at 9:03:46 PM

AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082

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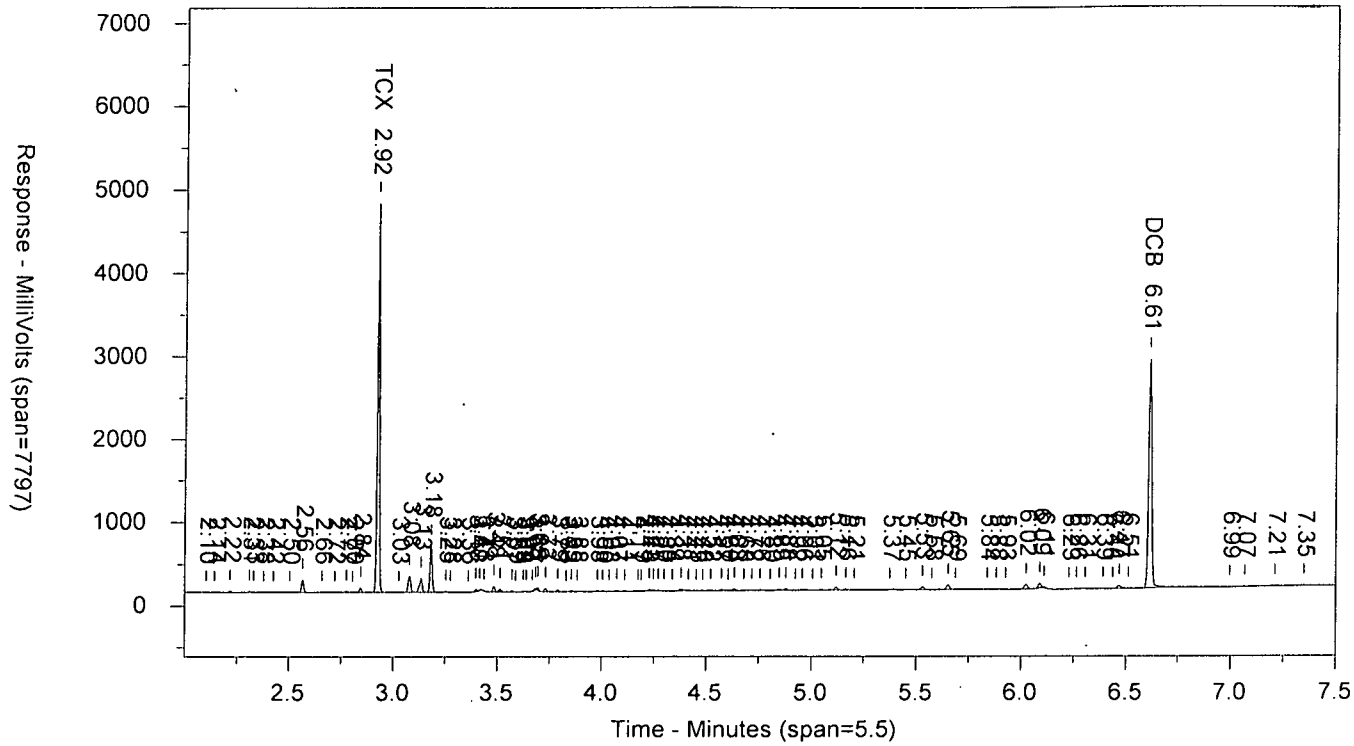

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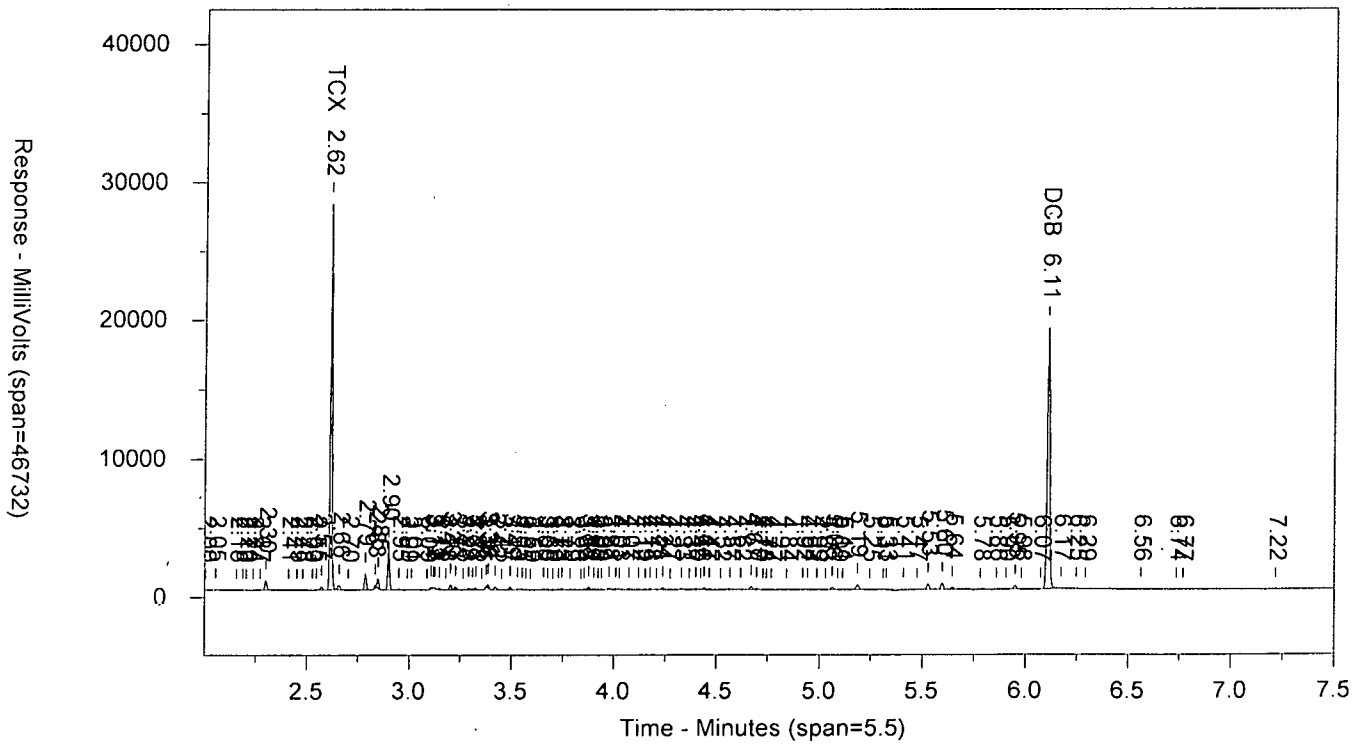

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.025.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.104		8547	13431
2.139		2092	4498
2.218		17008	13285
2.31		20521	12613
2.329		5270	2937
2.381		1757	2041
2.425		7496	6794
2.565		94261	73242
2.659		1490	1288
2.719		987	1305
2.774		19005	14614
2.828		2250	1442
2.843		27798	16698
2.924	TCX	4693937	3125828
3.027		1367	1124
3.077		150485	123968
3.134		137890	132950
3.181		493963	353504
3.254		9441	5475
3.275		24525	15558
3.315		763	598
3.361		1450	966
3.397		198764	118673
3.413		90636	49915
3.451		21222	10849
3.466		4428	1794
3.483		51447	32247
3.513		218093	167254
3.569		17589	10651
3.588		6318	3589
3.624		46986	26284
3.638		22944	11243
3.683		77391	48100
3.694		207641	108081
3.73		236587	186050
3.789		185481	148218
3.828		13184	8585
3.856		120668	91083
3.884		98315	80462
3.905		28914	15239
3.98		143380	103269
4.004		50202	32159
4.035		58490	40933
4.071		148424	157195
4.11		49941	39732
4.156		8451	7665
4.195		12574	9852
4.229		104282	72441
4.249		140453	89213
4.272		161712	113501
4.298		5535	3532
4.331		9464	11745
4.378		123236	98185
4.4		60604	46039

RT A	Compound A	Height A	Area A
4.456		1202	792
4.48		4669	3521
4.522		27183	28515
4.575		34711	31166
4.606		19406	13908
4.636		56331	48079
4.679		2541	2251
4.72		32452	28973
4.759		6776	7457
4.809		5876	5096
4.851		37086	35223
4.88		17499	13979
4.929		4960	6915
4.958		4572	3131
5.009		2640	2557
5.05		38130	39872
5.121		38525	36712
5.167		10403	9599
5.207		4109	3552
5.27		1910	1740
5.392		4566	8472
5.435		885	587
5.452		1928	1158
5.474		1385	897
5.531		31908	32003
5.578		1773	1333
5.653		64155	69583
5.838		7857	8530
5.883		2287	3604
6.025		66452	66922
6.089		64701	59127
6.109		6909	4823
6.27		1919	1961
6.394		1507	1643
6.438		796	965
6.469		34768	37300
6.615	DCB	2695301	2808775
6.898		645	474
7.072		2378	2442
7.307		730	17129
8.087		798	4219
8.483		738	1304
8.682		3481	7160

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.025.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		16035	19019
2.054		41151	27853
2.156		17083	12019
2.239		19201	31361
2.271		3147	2844
2.299		456437	297252
2.364		3212	4722
2.412		13572	17068
2.479		4362	2939
2.494		13761	13249
2.527		14506	14392
2.545		53034	27949
2.571		147595	88631
2.592		3102	1212
2.615	TCX	28606420	16561320
2.658		248180	194796
2.786		912757	582957
2.832		242205	108892
2.846		599657	311179
2.898		2771218	1672720
2.948		72760	42752
2.987		6327	2911
3.009		143599	86678
3.086		5630	2719
3.105		920442	452925
3.116		317046	112597
3.156		138385	108392
3.177		85245	49603
3.203		314203	178367
3.227		1339343	879204
3.263		60034	35644
3.291		129800	65083
3.31		354594	182395
3.325		296564	145768
3.355		5219	2767
3.375		810076	352519
3.385		1507265	645072
3.405		51107	18150
3.418		1198255	799661
3.493		1472147	917591
3.528		847493	530724
3.552		998344	551907
3.57		331832	169775
3.656		1175078	759110
3.678		402038	221903
3.7		389493	223041
3.728		266938	134193
3.745		1054047	626924
3.786		376268	275048
3.834		70622	48998
3.855		701464	437401
3.878		1331220	846427
3.903		1244278	761213
3.922		51805	21258

RT B	Compound B	Height B	Area B
3.94		34131	18176
3.961		28739	13146
3.976		239314	151665
4.011		769312	536638
4.039		544526	331786
4.074		53249	67826
4.121		147816	120274
4.154		15472	9268
4.177		228877	159296
4.21		143242	96454
4.238		372428	275339
4.277		10551	10249
4.315		40522	20751
4.332		144562	94854
4.367		42311	29383
4.399		244472	175371
4.422		8809	3649
4.442		119785	84097
4.467		40344	25086
4.49		19941	13099
4.568		61036	87352
4.618		233396	185423
4.67		234544	187064
4.697		53473	42755
4.729		9620	4779
4.768		13538	13244
4.842		13149	20919
4.868		4330	4982
4.919		31417	24578
4.943		17803	12556
4.988		32215	36899
5.03		7326	5355
5.064		174059	142957
5.113		41987	34621
5.186		404596	350869
5.304		3130	2254
5.329		14515	12942
5.373		38763	41300
5.529		470566	398756
5.597		543706	461216
5.646		140000	124920
5.751		10839	8895
5.903		4111	3556
5.951		229364	201810
5.983		6409	4208
6.003		4269	2839
6.11	DCB	18891000	16397950
6.292		5816	10326
6.562		15023	17271
6.715		1423	786
7.332		1381	3828
7.427		1586	1537
7.546		1876	3219
7.681		1144	8275
7.715		1590	1479
8.217		16578	27774
8.468		1431	1779

AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082

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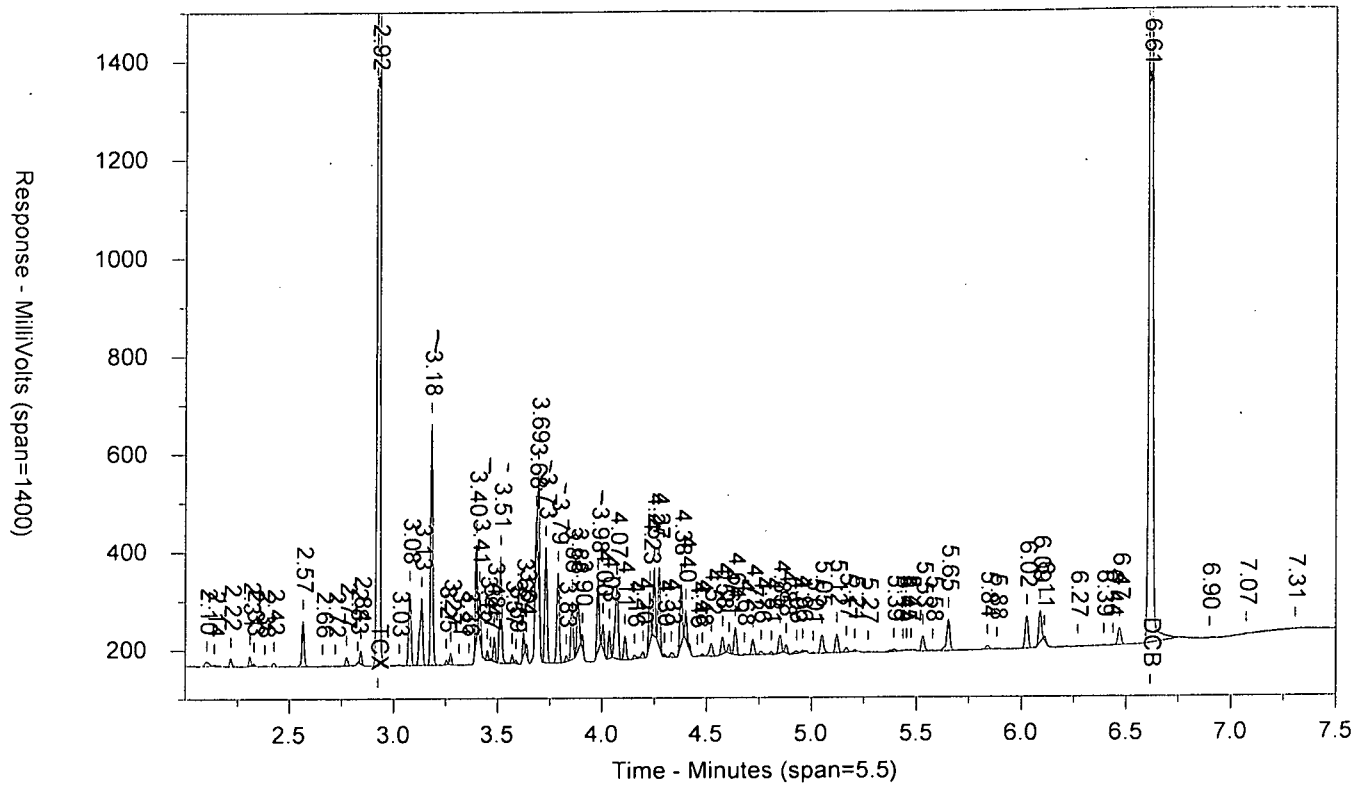

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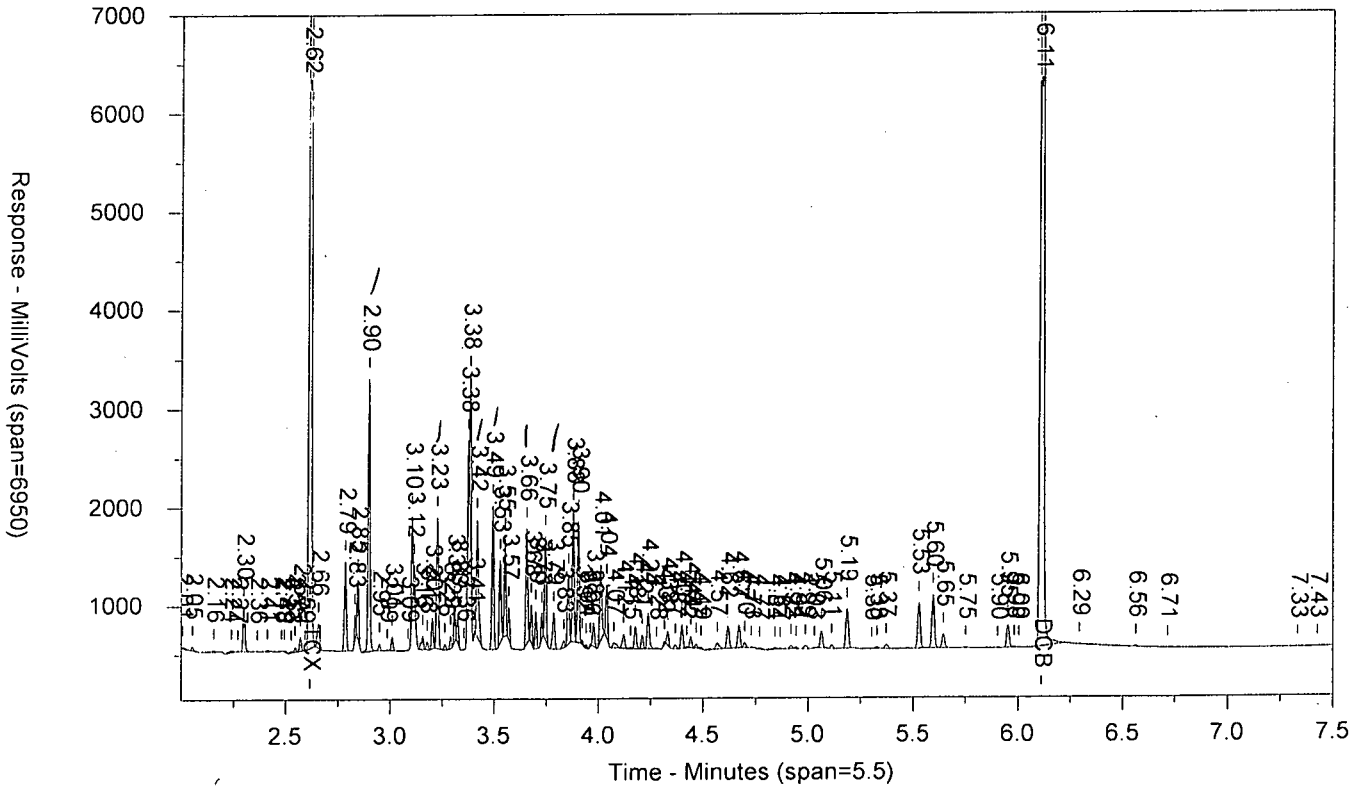

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4693937	41.305	TCX	2.615	28606420	41.38	TCX
6.615	2695301	39.167	DCB	6.11	18891000	38.776	DCB

Files:
Area File: 20pcbs17137001.025.RAW
Area File: 20pcbs17137001B.025.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:15:15 PM
File Reported On: 5/17/2017 at 9:15:22 PM

AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082

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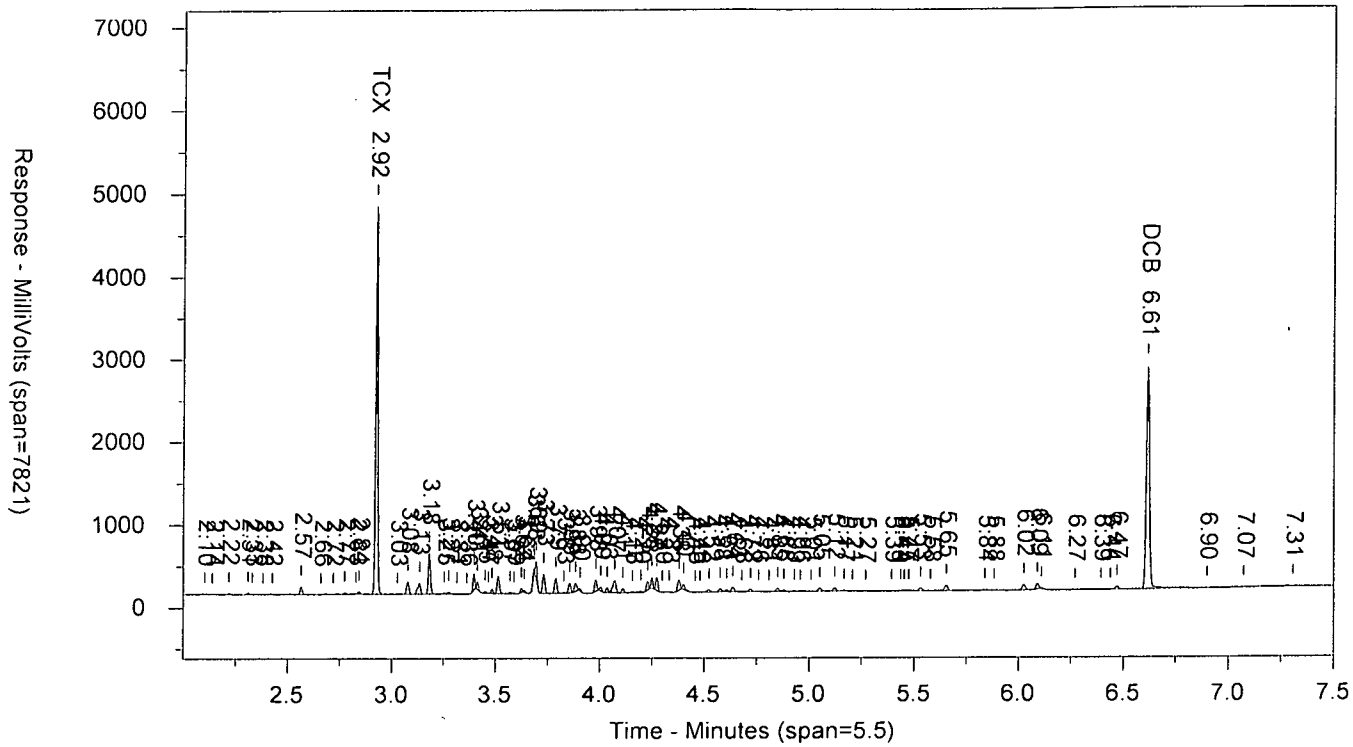

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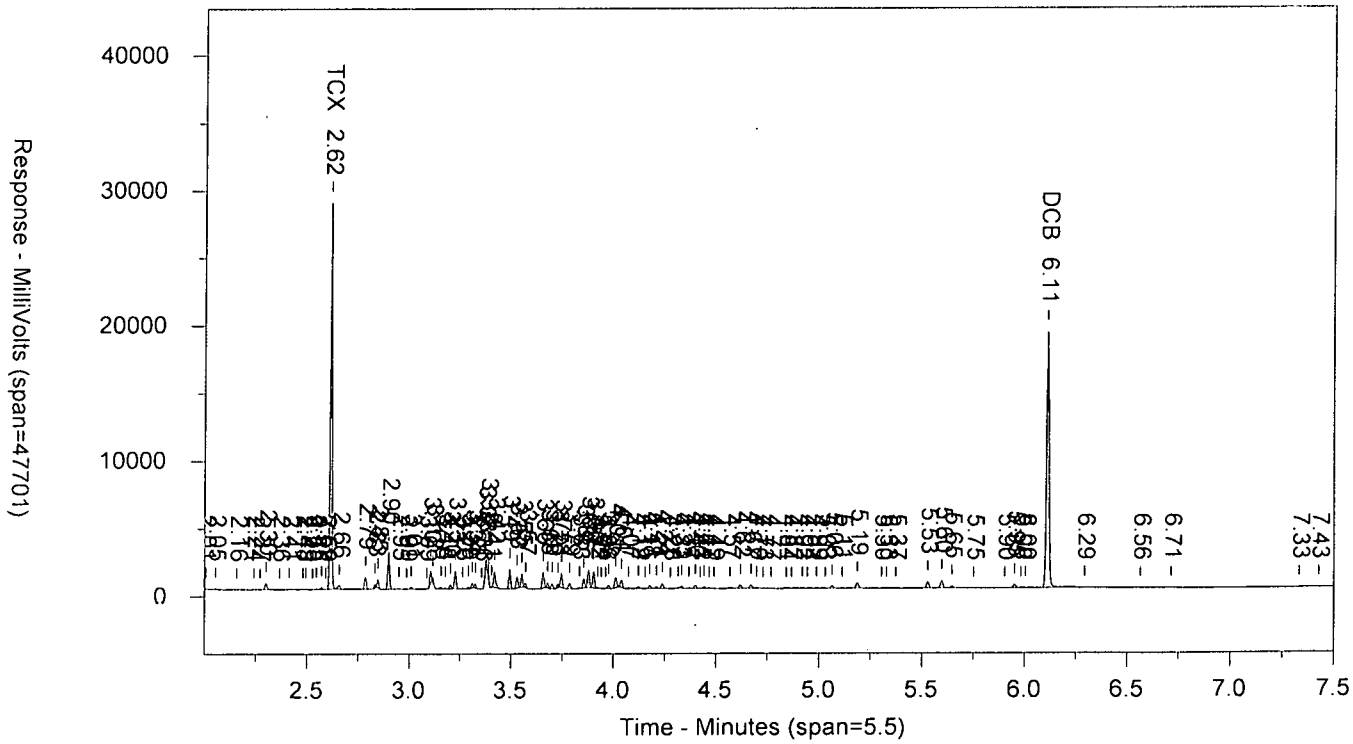


LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.026.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.013		804	1563
2.103		3352	5432
2.217		16133	12696
2.309		7766	4695
2.328		5537	3478
2.38		1337	1490
2.424		2991	2549
2.502		2872	1923
2.549		1140	493
2.565		4340	2884
2.662		1552	1668
2.774		6971	5628
2.827		2023	1268
2.923	TCX	4631099	3086027
3.026		1126	564
3.076		73236	62529
3.132		81517	92374
3.181		351560	252396
3.253		8727	4925
3.274		44051	29288
3.313		1130	915
3.396		347157	206579
3.412		150754	79157
3.45		37706	22135
3.466		13267	5559
3.482		28312	16391
3.513		380135	283125
3.549		1514	814
3.568		14507	8357
3.587		19165	11315
3.622		76340	44692
3.637		37618	18026
3.682		136418	84322
3.693		335248	178458
3.729		427632	324685
3.788		334814	255329
3.827		27962	19319
3.855		230132	167074
3.883		172185	146966
3.904		53361	28668
3.979		273708	195270
4.003		93073	60150
4.033		103220	77325
4.069		279736	288602
4.109		90820	74267
4.154		16918	12844
4.194		23649	19505
4.227		201017	138752
4.248		254188	163003
4.271		311358	220991
4.296		3285	1811
4.335		19768	25004
4.377		225958	189435
4.399		100309	87288

RT A	Compound A	Height A	Area A
4.456		3089	2194
4.478		10937	8065
4.521		56523	53480
4.573		80134	69974
4.604		46054	34082
4.634		127022	109073
4.682		1483	1158
4.72		63384	57552
4.757		5542	3834
4.807		14269	12802
4.848		95458	87025
4.879		20098	15687
4.929		9222	10197
4.956		6837	4940
4.974		4554	2920
5.004		3463	2955
5.048		92229	87351
5.09		2208	1441
5.119		39214	37097
5.165		23876	21005
5.205		3038	2148
5.375		8678	8885
5.43		1078	884
5.471		1065	678
5.529		31364	30375
5.574		6096	5096
5.651		55377	55329
5.689		1131	978
5.837		4254	5116
6.023		58405	58143
6.088		57343	51122
6.11		8961	5097
6.221		3585	18000
6.274		1239	2496
6.385		2035	2862
6.467		33888	35694
6.614	DCB	2951359	2880783
6.672		2260	2557
6.853		1077	444
7.072		2838	3906
7.343		1384	28021
7.818		664	1969
8.68		3324	3133

LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.026.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

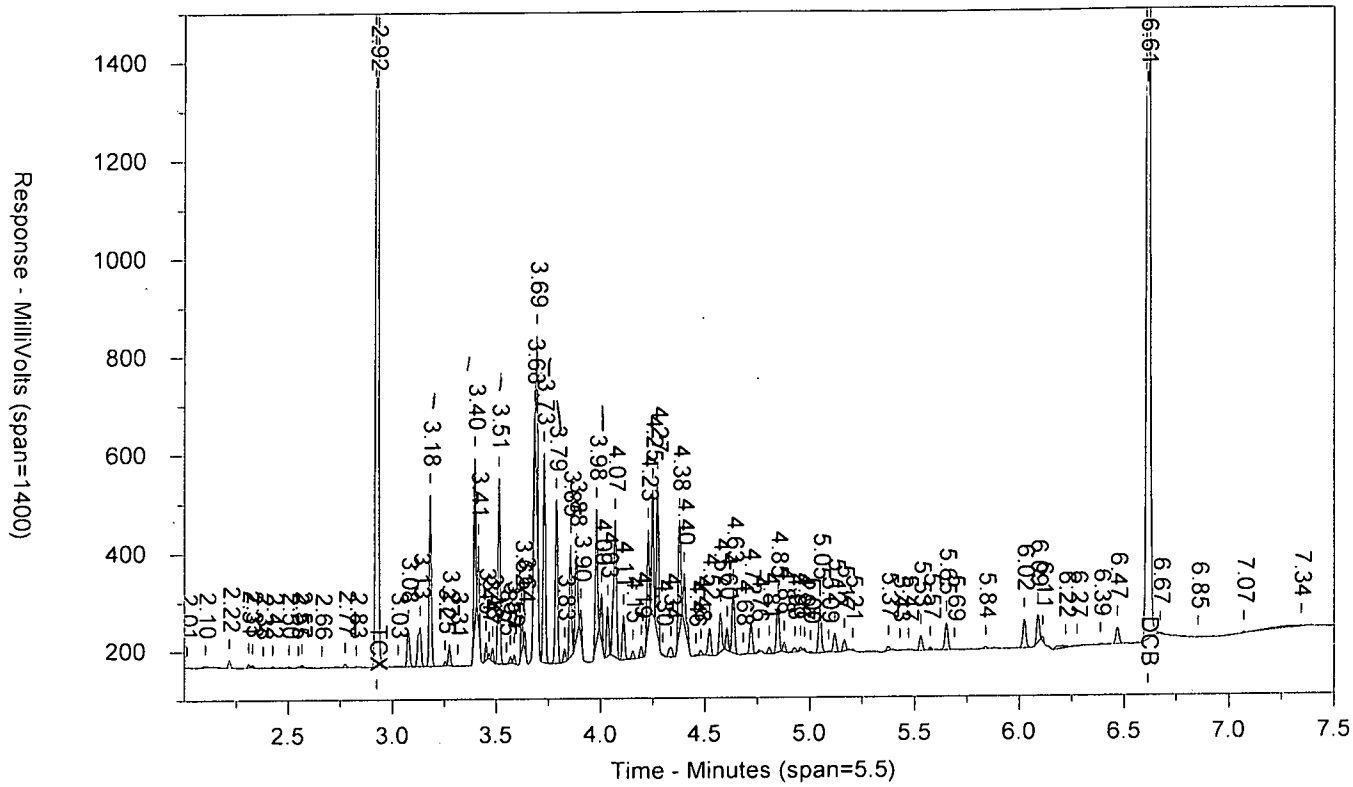
RT B	Compound B	Height B	Area B
2.004		2581	3497
2.054		39793	28734
2.118		3468	4422
2.157		7643	7965
2.186		2144	1006
2.204		20325	11353
2.238		11618	14156
2.272		3858	2859
2.3		26676	19751
2.34		2069	1198
2.41		10967	12148
2.453		2991	1591
2.476		4424	2819
2.529		13621	17031
2.546		25075	11997
2.571		9959	7830
2.615	TCX	27657480	16482220
2.658		153117	107887
2.704		5062	6848
2.785		455176	308119
2.833		258018	123128
2.846		325360	158120
2.898		1944532	1191914
2.948		67041	39764
3.009		250375	157207
3.067		1666	754
3.105		1590042	785119
3.116		538273	203353
3.156		253244	154327
3.177		157418	90314
3.203		205007	111447
3.227		2322301	1524464
3.263		144568	85674
3.291		103514	48978
3.309		592287	307414
3.325		382233	187710
3.353		5959	2604
3.375		1149152	513737
3.385		2651174	1120307
3.405		99681	39696
3.419		2283706	1518940
3.493		2610073	1583933
3.528		1644481	994787
3.551		1882698	1039464
3.569		631464	314126
3.655		2148996	1422633
3.677		773919	421048
3.698		787452	465017
3.728		519815	273301
3.745		1924911	1138926
3.785		691936	512848
3.832		144696	99743
3.854		1301849	823520
3.877		2567319	1627013

RT B	Compound B	Height B	Area B
3.902		2224092	1402401
3.922		111054	51885
3.94		97206	51692
3.96		48019	21116
3.976		523752	332815
4.011		1483237	1043618
4.039		1014942	603760
4.073		13474	8958
4.085		55766	31158
4.12		351308	272794
4.153		21781	12660
4.177		580706	437425
4.209		345104	238976
4.237		846849	604708
4.275		14412	14002
4.314		70534	37580
4.331		291070	191407
4.366		98269	70418
4.398		612854	448323
4.422		12300	5347
4.441		134424	88992
4.465		54171	31774
4.49		53181	39036
4.565		72847	65981
4.592		8926	4727
4.617		562128	441404
4.669		204960	162547
4.696		154251	137028
4.743		24886	18296
4.842		13453	19749
4.883		8808	6889
4.917		13833	9615
4.942		61480	48497
4.985		24305	24313
5.027		7496	4276
5.063		177404	140568
5.089		31445	20516
5.114		7132	4967
5.131		6889	4386
5.186		370585	313818
5.244		6540	6205
5.308		2479	2299
5.328		13893	47702
5.413		11014	40670
5.446		2161	2054
5.47		3711	3375
5.527		392424	342023
5.596		464362	410557
5.644		131930	120734
5.779		10583	30996
5.861		5706	18367
5.907		7326	7270
5.95		236363	198790
5.981		10782	7781
6.11	DCB	20304630	17259270
6.247		5015	4657
6.29		7104	25138
6.561		17587	16084
6.719		1275	1243
7.3		2053	1523
7.436		3326	10245
7.614		1745	2422
7.682		1695	3730
7.798		2004	2649
8.14		1621	1545
8.218		16549	31338

RT B	Compound B	Height B	Area B
8.664		4552	10743

AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.026.RAW



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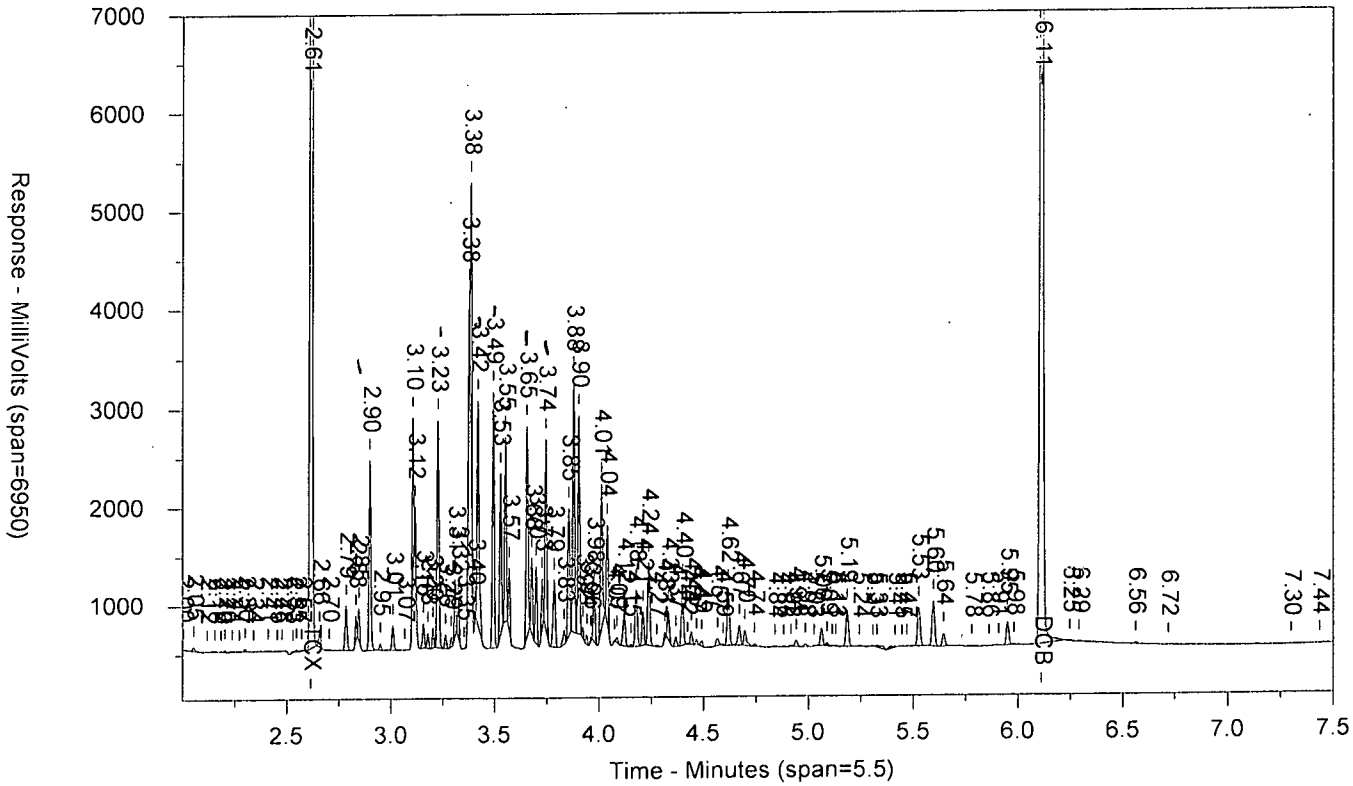

LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4631099	40.752	TCX	2.615	27657480	40.007	TCX
6.614	2951359	42.887	DCB	6.11	20304630	41.678	DCB

Files:
Area File: 20pcbs17137001.026.RAW
Area File: 20pcbs17137001B.026.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:26:41 PM
File Reported On: 5/17/2017 at 9:27:00 PM

AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082

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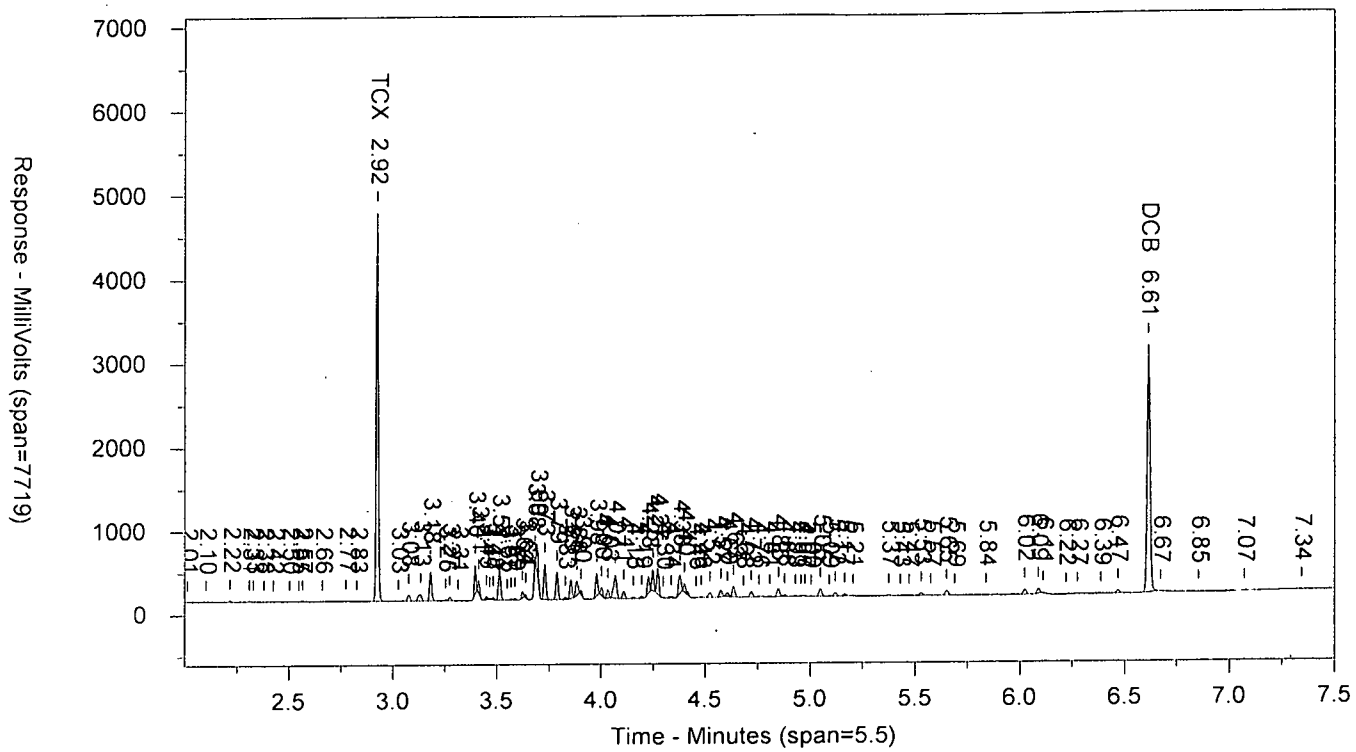

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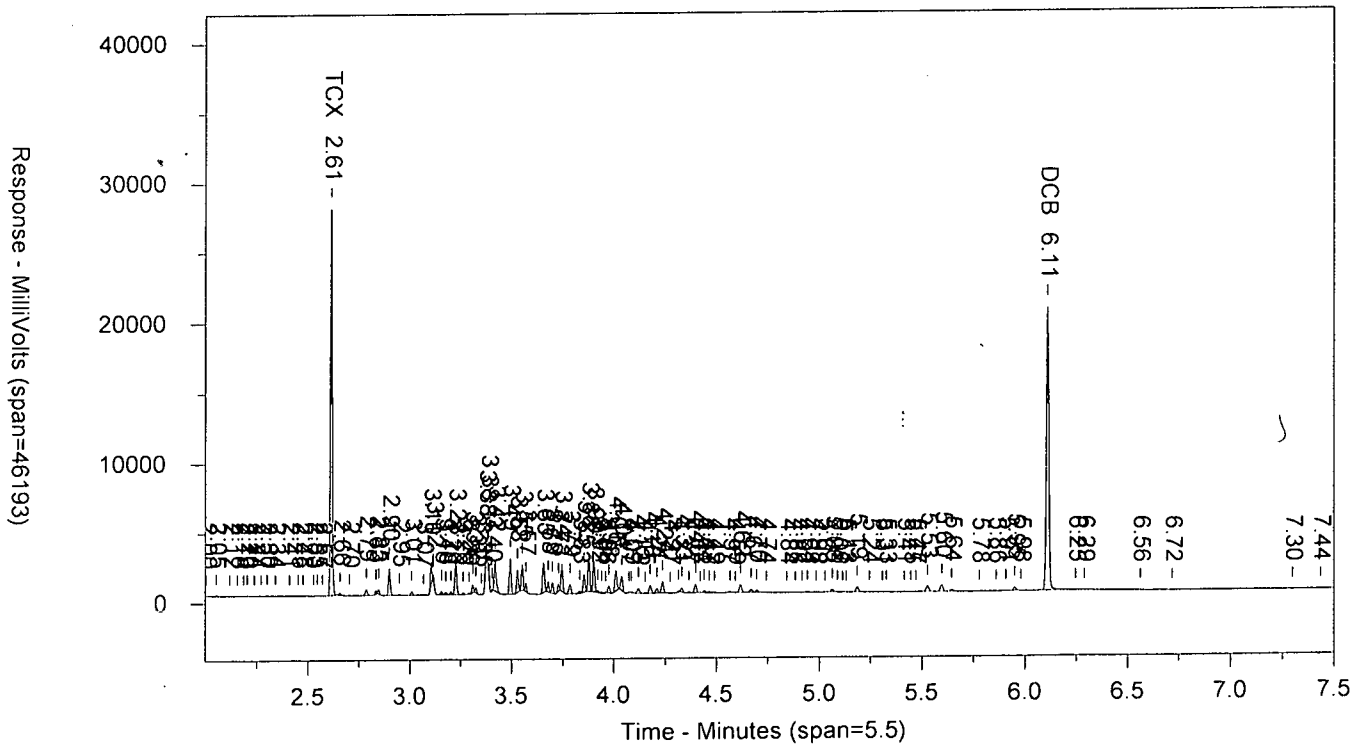

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.027.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4889	7813
2.139		1851	2705
2.217		19199	14201
2.309		12148	7366
2.328		6105	3623
2.379		1371	1706
2.424		5147	4349
2.516		981	658
2.549		1872	1159
2.565		4901	3139
2.66		1667	1567
2.704		702	410
2.774		23989	19834
2.825		2706	1640
2.923	TCX	5224759	3548644
3.025		1268	823
3.076		90159	75246
3.133		109020	114357
3.182		445984	329501
3.254		8790	4965
3.275		58183	39481
3.315		1854	1502
3.364		2753	1959
3.397		453276	278419
3.413		202653	108329
3.451		54012	30805
3.466		15689	6633
3.483		40338	23177
3.513		496854	387058
3.549		1657	860
3.569		18623	10777
3.588		14751	8961
3.624		102296	61212
3.638		50078	24074
3.683		207697	119414
3.694		496861	259672
3.73		567327	429415
3.789		451778	357624
3.828		38601	26847
3.856		305625	224342
3.884		241561	202067
3.905		74202	43235
3.98		361716	265499
4.004		127818	81966
4.034		145847	104677
4.071		361875	381648
4.11		120093	99399
4.156		16521	13349
4.195		23603	20816
4.229		137539	97962
4.249		115535	74984
4.273		102773	71797
4.298		5880	3842
4.336		3958	4670

RT A	Compound A	Height A	Area A
4.378		35483	30492
4.4		5347	2666
4.477		1188	789
4.52		4253	5884
4.573		4791	4614
4.636		1957	1888
4.721		1765	1311
4.852		1987	1916
4.881		23447	20161
4.921		3541	4478
5.007		1871	1330
5.048		1966	1742
5.068		2034	1279
5.121		42538	43106
5.167		1068	930
5.208		3415	3871
5.381		4060	12014
5.41		707	432
5.435		1987	2934
5.473		2209	3175
5.531		35965	35953
5.601		2942	3002
5.653		65990	65728
5.84		3553	4494
5.88		1709	2193
6.024		67035	65793
6.059		14061	10890
6.089		67559	57292
6.11		10948	7516
6.215		10541	27271
6.268		5106	10569
6.396		1286	1714
6.436		1222	830
6.469		39822	39844
6.615	DCB	3073630	3291043
6.744		1787	1469
7.076		2210	2430
7.349		957	29598
8.27		664	489
8.382		389	2275
8.516		893	316
8.682		1945	1638

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.027.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		4806	5388
2.054		47727	31835
2.119		2968	2549
2.156		8100	8224
2.238		11418	19648
2.274		8915	4848
2.3		30225	19665
2.41		16923	16002
2.494		58836	128042
2.528		23384	29730
2.546		71819	43180
2.57		10616	6950
2.591		3117	1489
2.615	TCX	33005770	18905610
2.658		208709	141400
2.759		2510	1383
2.785		543149	356745
2.832		269827	128168
2.846		426091	214019
2.88		7167	3748
2.898		2553899	1541069
2.948		77157	44713
2.986		16085	8347
3.009		337620	204329
3.105		2190742	1071467
3.116		776859	300953
3.156		333749	212227
3.177		197679	112399
3.203		270556	151806
3.227		3271128	2083899
3.263		123465	68984
3.292		118383	56499
3.31		814505	424413
3.325		519971	252604
3.354		8914	4507
3.376		1594821	767255
3.385		3607330	1581576
3.405		127545	45747
3.419		3084391	1967532
3.493		3596888	2233229
3.528		2241483	1374788
3.552		2594920	1424190
3.57		829845	433870
3.656		3159143	1982421
3.679		1062224	575365
3.7		1014689	592834
3.729		723136	358352
3.746		2581542	1524135
3.786		905899	650725
3.834		117531	109881
3.856		684456	437119
3.878		1460233	934873
3.903		732663	440252
3.923		119634	62108

RT B	Compound B	Height B	Area B
3.94		19160	9489
3.963		8979	4460
3.977		57230	34585
4.012		82669	47155
4.026		83549	67338
4.075		53295	46877
4.111		5308	4710
4.134		5489	2739
4.154		35200	47106
4.208		18416	30989
4.239		15230	22220
4.313		4064	2606
4.333		10994	8342
4.371		5697	4423
4.399		11504	7518
4.442		164945	156782
4.532		2767	4081
4.569		7456	5152
4.623		21958	17795
4.645		11676	7333
4.672		161845	123152
4.722		5822	14334
4.745		9987	7295
4.766		3780	4382
4.817		3894	4328
4.844		12279	10847
4.918		13342	10620
4.944		7193	5219
4.986		25200	30280
5.03		6286	4064
5.064		217635	191208
5.107		3058	2260
5.186		438425	376586
5.307		3197	2344
5.33		7926	7137
5.373		7425	7810
5.429		3102	4005
5.475		2609	2718
5.528		493354	493265
5.597		588001	559750
5.646		179075	201452
5.751		3586	9793
5.843		6954	6775
5.905		5212	4809
5.951		270812	226300
5.982		7213	4774
6.004		4059	2985
6.074		2551	2110
6.11	DCB	22203290	19194930
6.208		5395	4375
6.289		4374	3813
6.339		3132	5276
6.562		18293	21632
7.434		1581	1603
7.734		2343	3142
7.849		2566	3980
8.223		17282	31577

AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082

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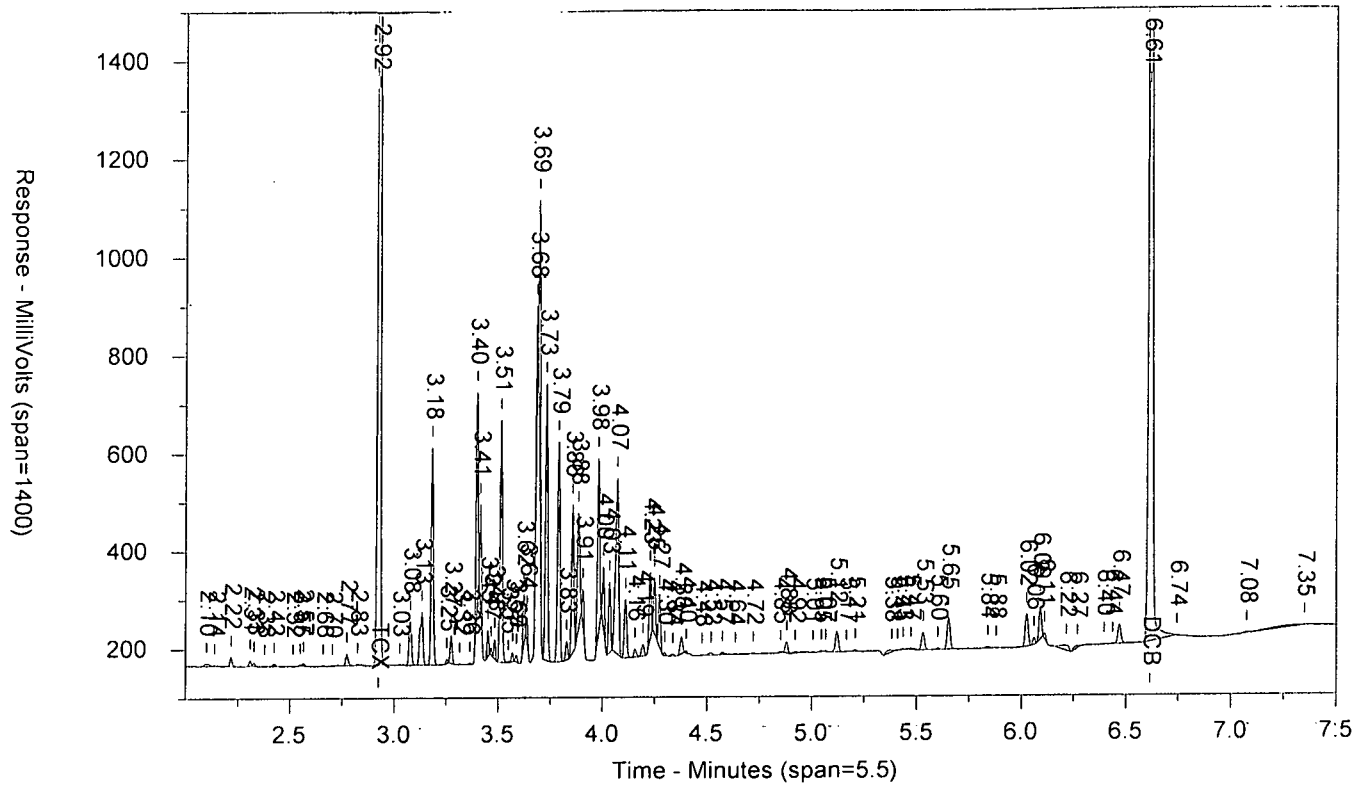

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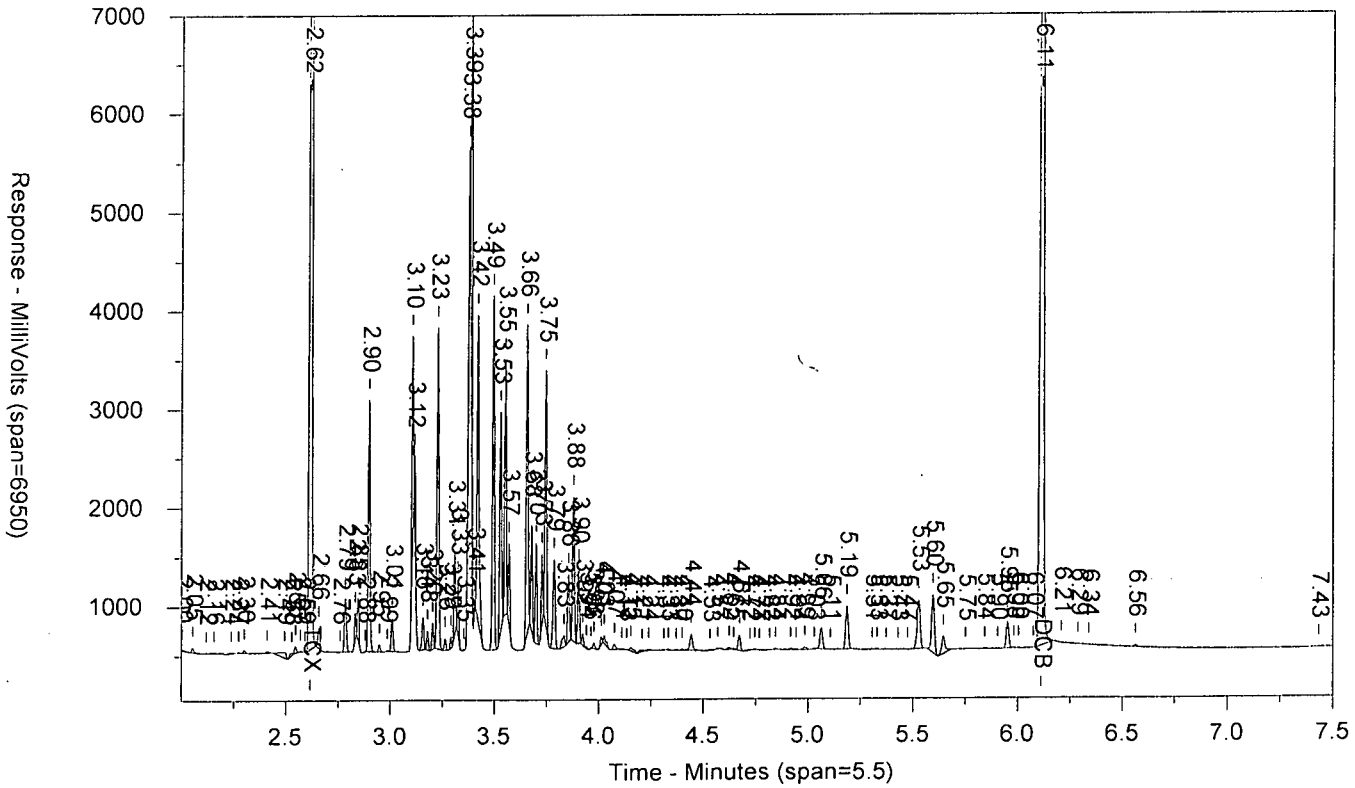

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	5224759	45.976	TCX	2.615	33005770	47.744	TCX
6.615	3073630	44.664	DCB	6.11	22203290	45.575	DCB

Files:
Area File: 20pcbs17137001.027.RAW
Area File: 20pcbs17137001B.027.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:38:11 PM
File Reported On: 5/17/2017 at 9:38:18 PM

AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082

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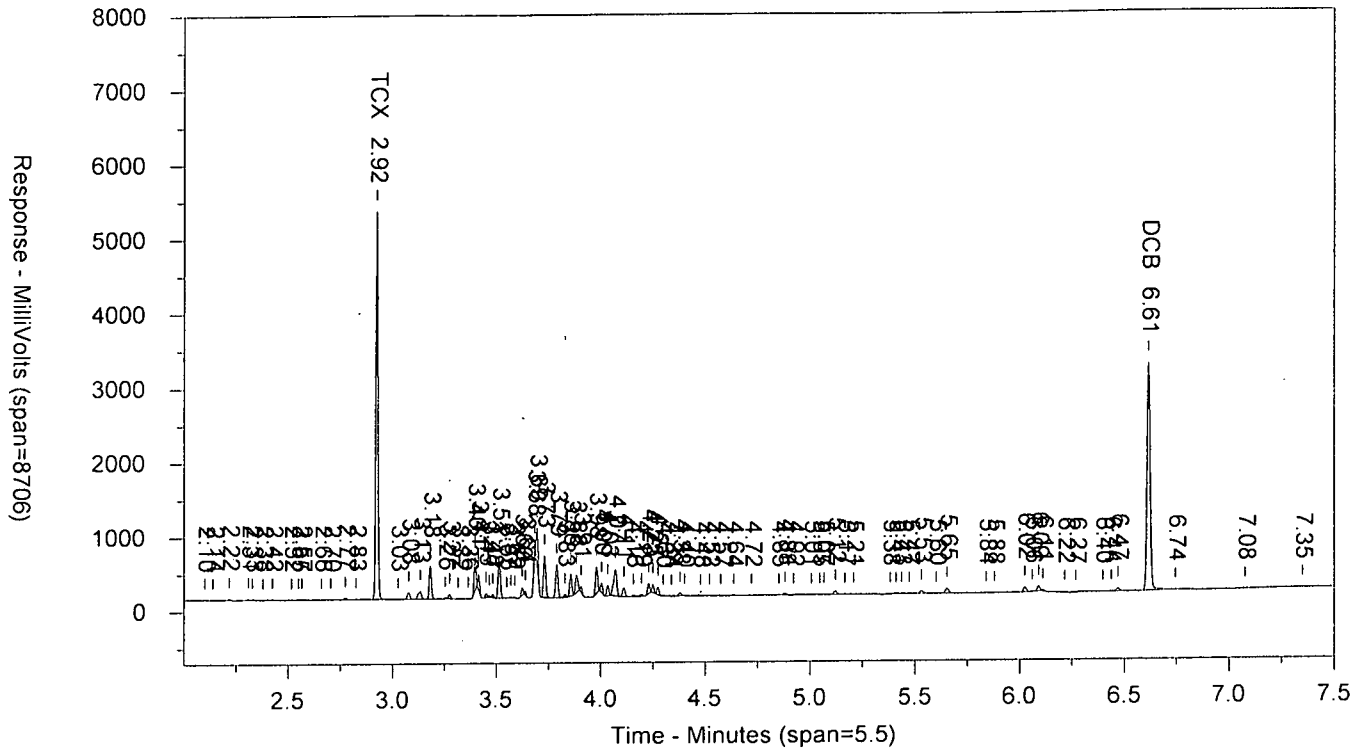

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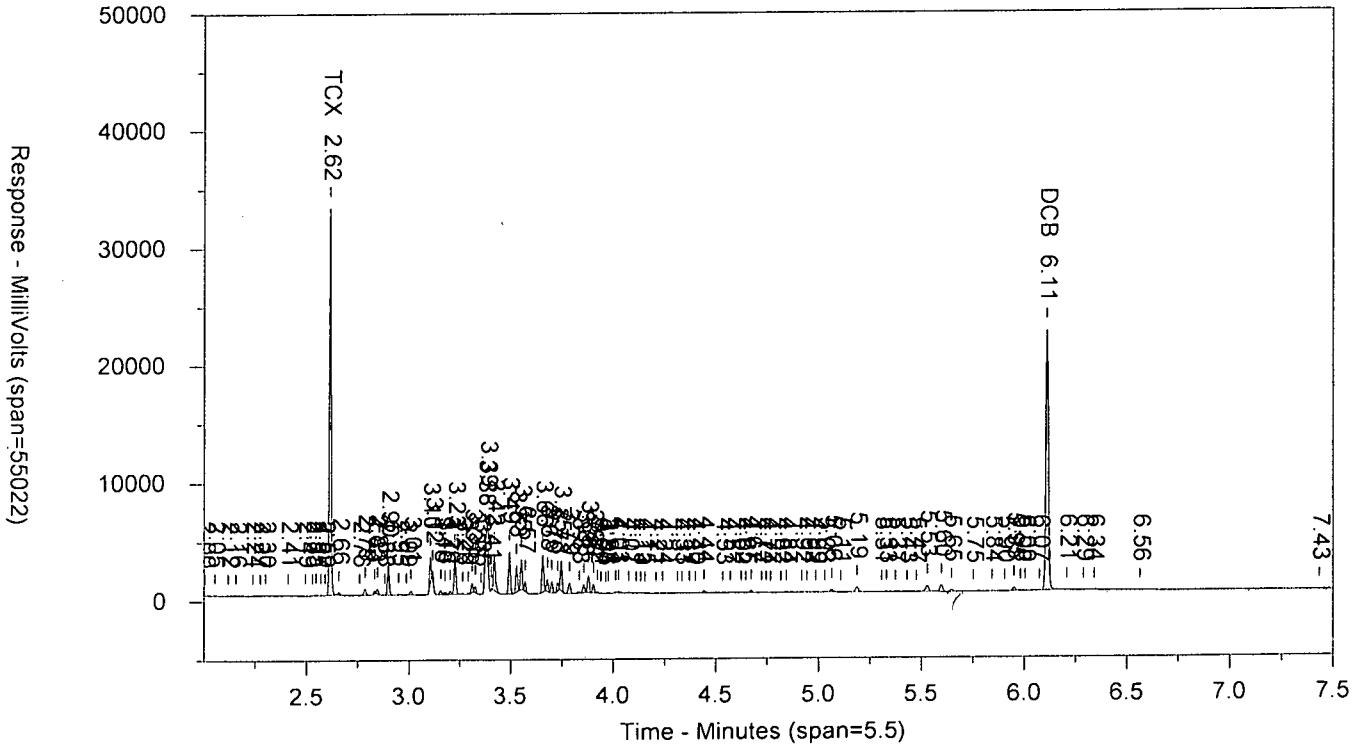

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.028.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.103		4185	7401
2.137		1391	2197
2.31		20450	13886
2.381		1213	1703
2.423		3823	3776
2.549		2790	2133
2.66		1211	1012
2.733		1440	2133
2.774		11713	9206
2.829		4022	3779
2.924	TCX	104337	72458
3.076		4308	3729
3.135		5423	4779
3.182		28781	22230
3.274		2772	2062
3.364		1232	1233
3.397		30287	17941
3.414		12854	6524
3.452		2597	1525
3.484		1901	1199
3.513		31759	25785
3.588		1024	854
3.624		5639	3136
3.668		4004	2265
3.683		14489	7286
3.694		28054	13422
3.73		32426	23976
3.789		25170	18483
3.829		1608	1038
3.856		20196	15239
3.883		14311	11705
3.906		3657	1904
3.98		21330	14896
4.003		6545	4073
4.035		7484	4997
4.07		20566	21314
4.11		5903	4965
4.175		843	771
4.194		2148	1609
4.229		24690	17860
4.249		5718	3227
4.271		4859	3220
4.299		8295	7885
4.338		2960	2639
4.383		27292	25020
4.481		659	634
4.518		5642	7516
4.575		2535	1450
4.59		5359	3437
4.635		16654	14294
4.681		23515	25893
4.72		5401	3728
4.757		54488	50525
4.8		1156	1167

RT A	Compound A	Height A	Area A
4.849		8808	10228
4.905		10306	11094
4.958		62920	78591
5.007		12191	10661
5.05		28920	31826
5.128		6253	8159
5.166		66848	65079
5.227		35367	30563
5.271		21012	21020
5.393		43290	67039
5.451		21444	19900
5.491		10146	9063
5.533		4148	4107
5.577		14111	12728
5.632		88125	93491
5.839		49417	54830
5.892		14476	28099
6.024		2768	3220
6.089		2112	1559
6.111		9173	9127
6.21		8288	24685
6.268		25759	31422
6.314		2032	2478
6.404		1026	1322
6.471		5184	5662
6.616	DCB	73233	76478
7.393		848	59496
8.025		465	945
8.163		613	930
8.312		913	1807

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.028.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		4977	7558
2.114		3388	4692
2.156		13835	35727
2.239		13347	25117
2.301		2268	2249
2.343		2174	1886
2.412		16988	17076
2.476		4048	2808
2.495		11128	9800
2.527		8650	8843
2.546		40077	21128
2.574		2893	3357
2.591		4253	2379
2.615	TCX	634514	365193
2.659		11545	9286
2.697		6686	9607
2.785		28157	18500
2.832		4802	2198
2.846		30918	18989
2.898		167049	111881
2.985		6077	3720
3.009		19093	11158
3.105		143686	71120
3.116		46250	18325
3.157		11553	6963
3.178		14753	10082
3.202		17305	9333
3.227		203321	131696
3.264		7850	4050
3.279		4940	1670
3.31		43655	21110
3.325		115084	61585
3.354		5593	2627
3.375		123175	52857
3.385		207631	86152
3.418		195415	141939
3.493		207284	130396
3.528		158422	94870
3.552		172829	96128
3.57		48518	22938
3.656		187525	120123
3.678		73118	41610
3.7		64543	40300
3.728		44934	22479
3.745		148941	87768
3.786		51369	37895
3.829		11141	11637
3.855		37155	22849
3.877		201499	133386
3.903		40282	22538
3.923		6333	3027
3.94		25749	15107
3.976		178760	122151
4.01		8429	5118

RT B	Compound B	Height B	Area B
4.025		14188	8891
4.074		54168	46662
4.112		8093	4563
4.176		35294	21572
4.221		30461	17572
4.238		43607	21118
4.251		103873	56493
4.276		66204	66069
4.33		362834	275442
4.372		7336	6615
4.399		36966	24780
4.423		79399	58941
4.466		408948	324377
4.526		3971	4442
4.568		322761	328412
4.622		40934	30517
4.658		92399	78858
4.697		387388	340203
4.729		202040	142597
4.768		140512	112872
4.842		5659	8125
4.867		39116	27102
4.919		254328	200179
4.942		36370	23329
4.993		134403	122325
5.028		65858	54879
5.059		47881	40847
5.09		21367	12287
5.113		508939	435556
5.154		12382	8865
5.185		27951	22650
5.305		6296	4250
5.328		118448	96990
5.373		317703	352812
5.528		19472	20452
5.572		11481	8726
5.596		37901	46975
5.646		85827	120960
5.696		2541	2214
5.752		140954	117357
5.783		8283	5699
5.833		4212	3805
5.917		3148	2585
5.951		40935	33426
6.109	DCB	492123	455333
6.232		1616	1149
6.307		1788	2164
6.717		2632	3516
7.556		1816	4284
8.222		16408	31334
8.363		1344	2515

MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082

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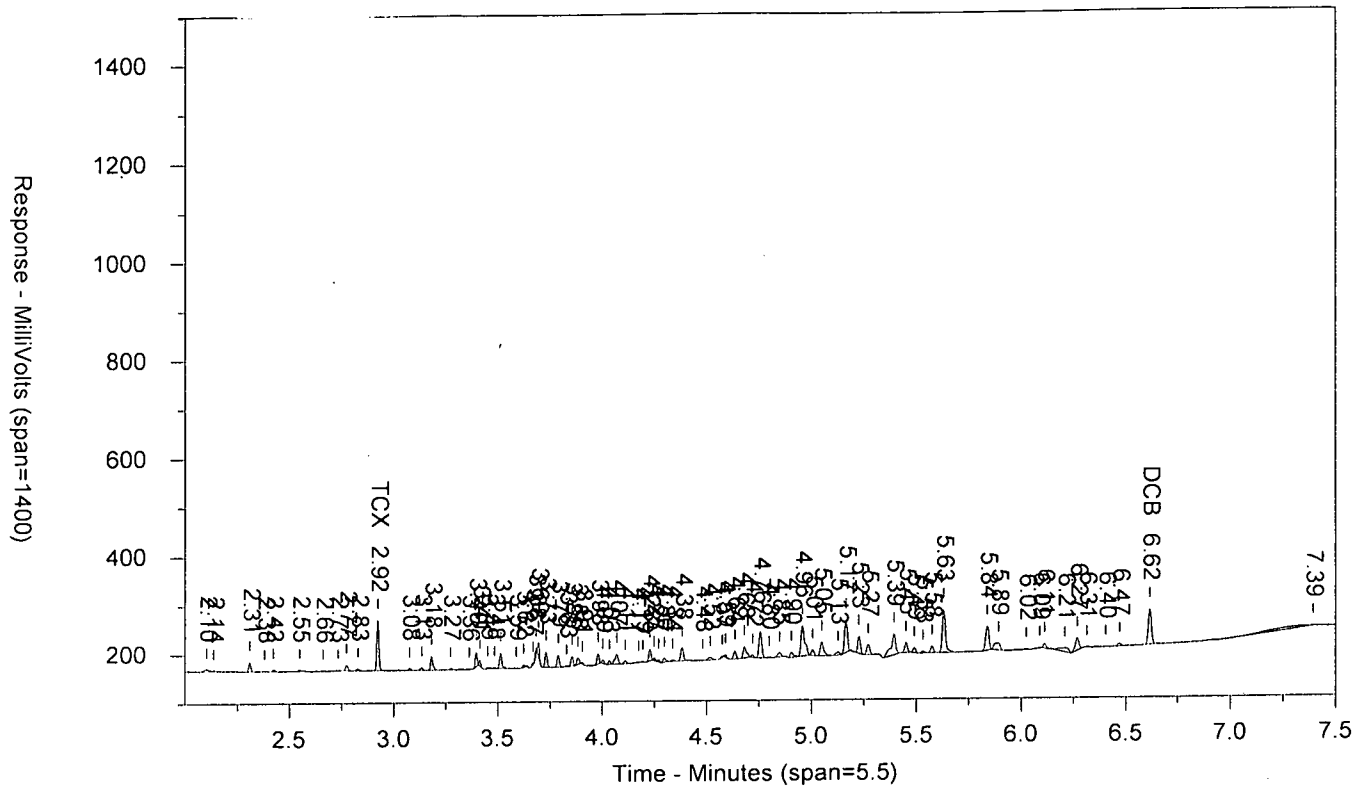

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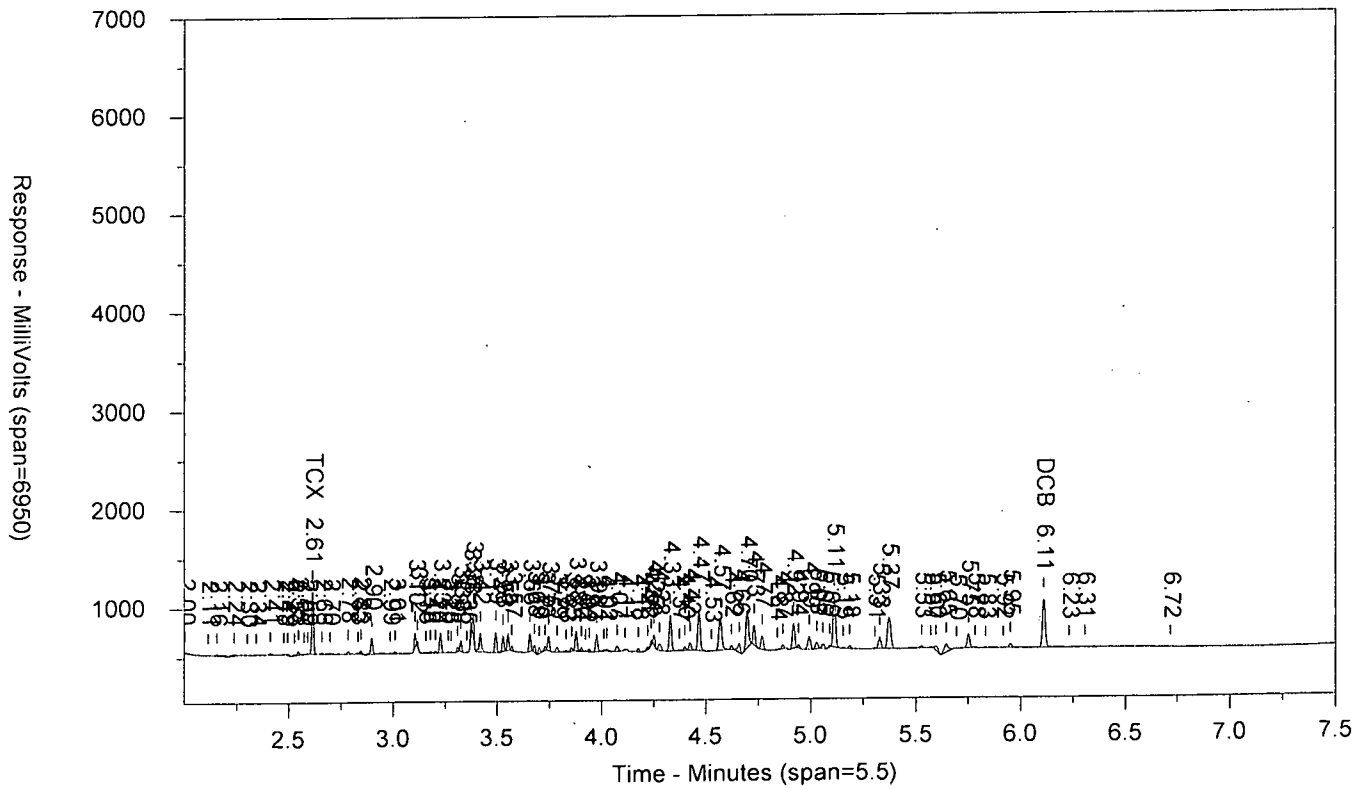

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	104337	.918	TCX	2.615	634514	.918	TCX
6.616	73233	1.064	DCB	6.109	492123	1.01	DCB

Files:
Area File: 20pcbs17137001.028.RAW
Area File: 20pcbs17137001B.028.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:49:40 PM
File Reported On: 5/17/2017 at 9:49:47 PM

MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082

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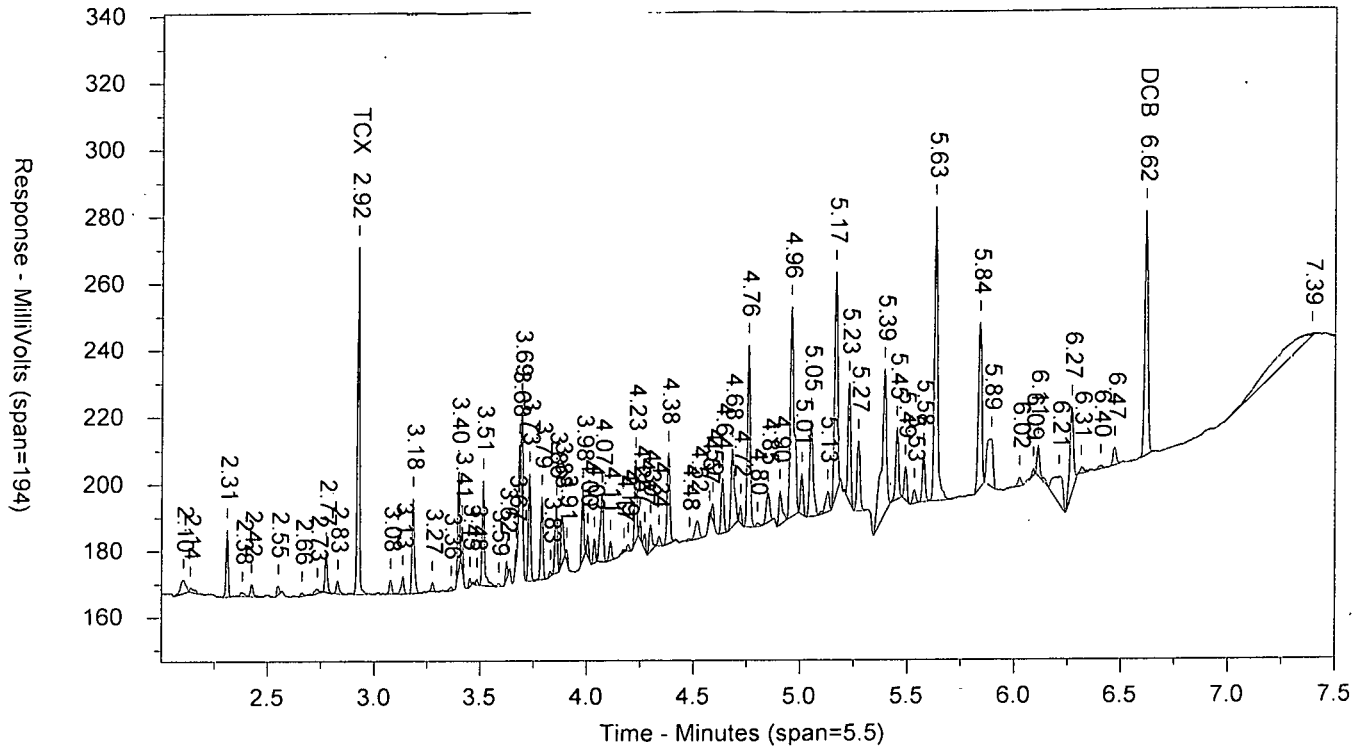

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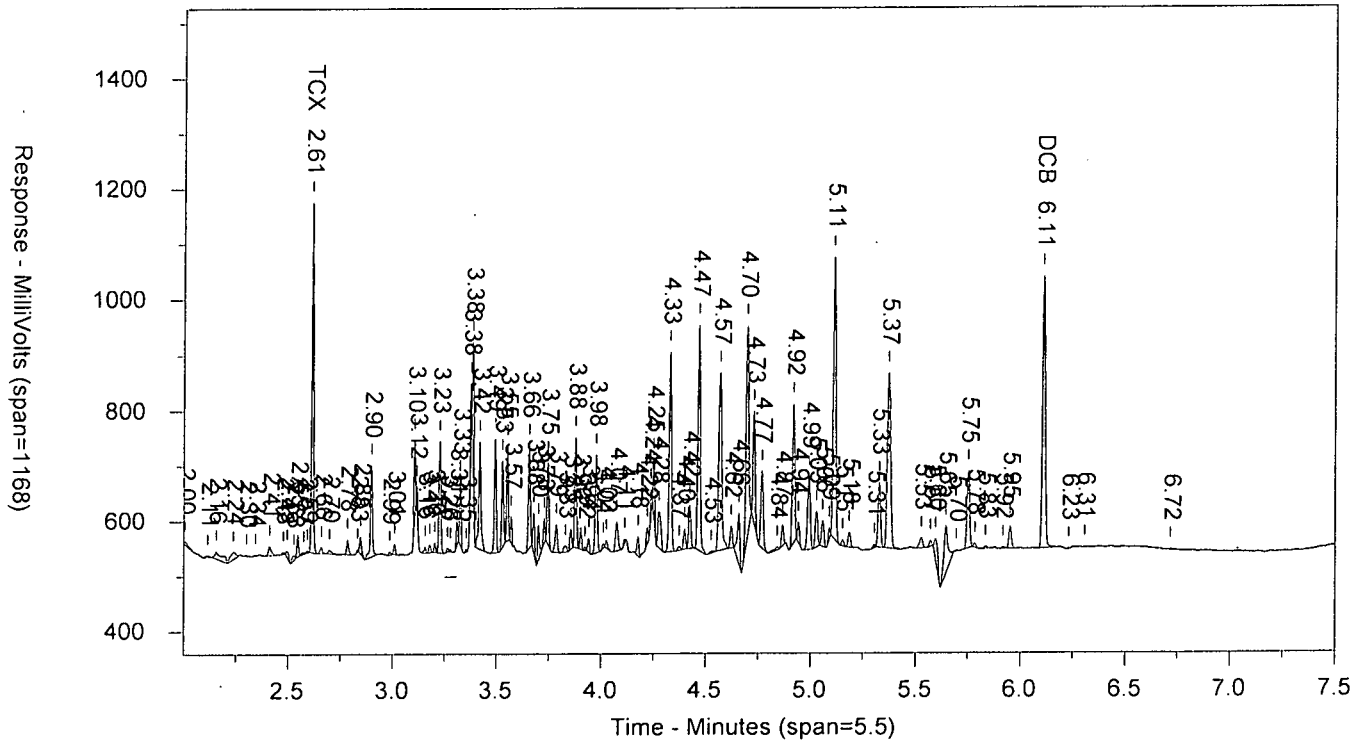

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.029.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4145	7393
2.218		16329	12322
2.31		15571	9620
2.329		5136	2848
2.425		3178	2462
2.477		682	477
2.549		1336	802
2.565		4305	2706
2.662		1476	1269
2.722		1219	1494
2.774		19187	15104
2.827		3141	4168
2.924	TCX	4551063	3097022
3.027		1300	1089
3.077		83039	68084
3.133		95784	101172
3.182		413957	299018
3.255		8554	4764
3.275		58253	37747
3.315		2169	1553
3.397		441475	268126
3.414		200931	108215
3.451		51791	28920
3.466		16225	6763
3.483		35602	20736
3.513		477936	361818
3.548		1791	882
3.568		15852	9345
3.587		17790	10553
3.624		101206	56475
3.638		45944	22623
3.683		213347	117389
3.693		432008	222623
3.73		524621	403718
3.789		438907	337817
3.829		35479	25213
3.855		299635	223771
3.883		230688	197487
3.905		61746	33518
3.98		339457	248242
4.004		112799	73126
4.034		126128	90734
4.069		276720	296565
4.11		83987	67329
4.156		8080	5433
4.193		12491	9319
4.228		278314	217359
4.249		41931	22721
4.272		53194	36848
4.296		5011	3540
4.339		47497	40483
4.382		353620	319831
4.417		8058	5054
4.478		5336	4526

RT A	Compound A	Height A	Area A
4.518		75626	77681
4.575		22432	16064
4.589		89237	63378
4.635		209937	181477
4.681		365470	401217
4.718		84519	60221
4.757		811353	757113
4.799		14470	13208
4.847		104233	117864
4.88		24300	16962
4.905		135115	120639
4.957		914616	1167754
5.007		182793	164319
5.051		432552	482880
5.093		6392	3689
5.128		101935	126398
5.165		1057748	1147151
5.228		530716	479808
5.272		324601	317313
5.37		40906	40543
5.393		574254	513012
5.451		288129	287075
5.491		153608	136319
5.532		60338	57041
5.575		192782	189781
5.632		1436554	1545983
5.719		1630	1454
5.839		822771	837952
5.877		83157	90553
5.892		64520	41466
6.024		82656	82942
6.089		60810	45940
6.11		134248	110511
6.269		332981	335409
6.315		22389	21103
6.468		139690	145971
6.616	DCB	2535823	2688722
6.749		1530	1210
6.928		913	2541
7.074		1822	2632
7.366		996	29821
7.936		545	391
8.042		374	1596
8.259		609	2206
8.312		614	677
8.679		3250	3523

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.029.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		2031	1614
2.054		39027	25088
2.154		9637	11183
2.202		7431	3158
2.238		11306	24866
2.3		27691	19311
2.363		10712	9522
2.411		11060	12621
2.453		4274	2683
2.493		4184	4867
2.527		7091	5872
2.546		63717	39538
2.57		6048	3355
2.589		2261	1136
2.615	TCX	28492550	16492770
2.659		187694	130399
2.696		4728	5946
2.786		499892	333586
2.833		249664	115034
2.846		373180	183501
2.899		2304468	1411858
2.949		66527	39761
3.009		322351	200613
3.105		3059895	2910779
3.156		324246	205947
3.178		195573	109861
3.203		247132	135742
3.227		3037760	1956622
3.264		137142	84912
3.292		101802	48906
3.31		755081	396456
3.325		478599	237411
3.352		5799	2630
3.375		1893682	817239
3.385		3433151	1490273
3.405		121398	48762
3.419		2958058	1915810
3.493		3505199	2106020
3.528		2204346	1354987
3.552		2625198	1427468
3.57		781834	400828
3.656		2817777	1834185
3.678		1019792	535067
3.699		942233	542867
3.728		663838	337417
3.745		1940989	1077435
3.786		621078	438756
3.833		131300	119734
3.855		267377	167491
3.877		2257443	1485614
3.902		343667	203551
3.923		48229	22951
3.941		309922	187917
3.976		2259513	1542534

RT B	Compound B	Height B	Area B
4.01		112149	68577
4.025		153732	97275
4.073		42070	27066
4.112		369094	377199
4.154		35386	20837
4.177		556668	378318
4.22		595693	363388
4.238		396997	197630
4.251		1733271	981147
4.277		1003132	995926
4.329		5612597	4135813
4.372		115793	110012
4.399		387839	257561
4.423		1141861	807237
4.442		39685	14346
4.466		6334442	4707600
4.518		3792	2124
4.569		5133244	4908144
4.622		648667	541488
4.66		1451879	1276893
4.697		6161358	5131987
4.729		3278786	2279513
4.767		2237805	1690688
4.829		8065	9237
4.867		794830	763743
4.918		4212881	3299150
4.942		452315	287772
4.992		2107478	1945486
5.028		1036344	831428
5.059		841636	746072
5.09		262451	155070
5.112		9220518	7486408
5.153		180800	138445
5.186		626744	538893
5.304		106323	64997
5.328		1888249	1567116
5.373		6206865	6538494
5.49		5643	3494
5.528		565995	498753
5.572		134535	92914
5.596		505308	412923
5.645		1141401	993373
5.752		2288098	1926846
5.783		125352	91151
5.951		954898	841165
6.003		3244	1855
6.067		3491	2388
6.11	DCB	17578490	16215750
6.288		10422	18386
6.343		3440	4073
6.562		13078	14394
7.552		1731	3028
7.68		1743	2044
8.223		16889	32104
8.305		1474	1191

IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082

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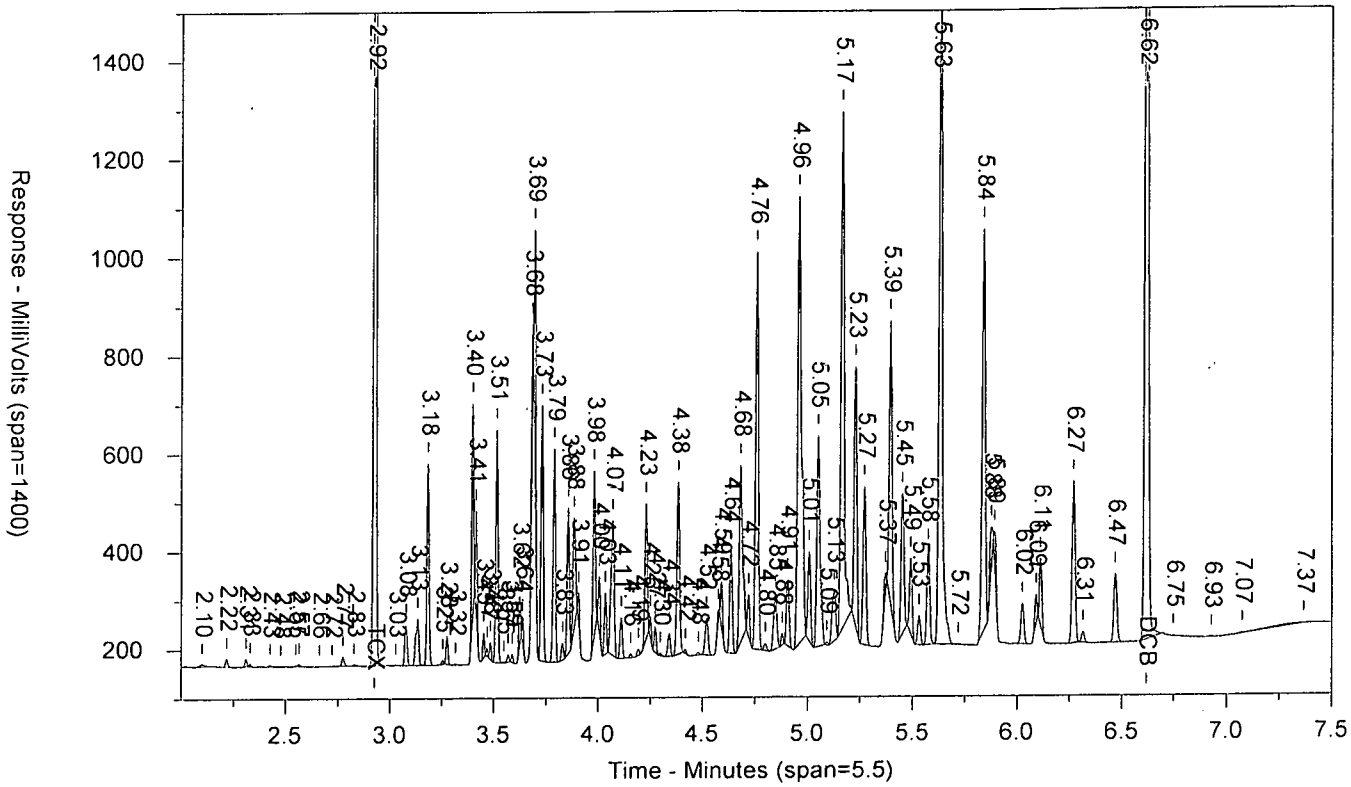

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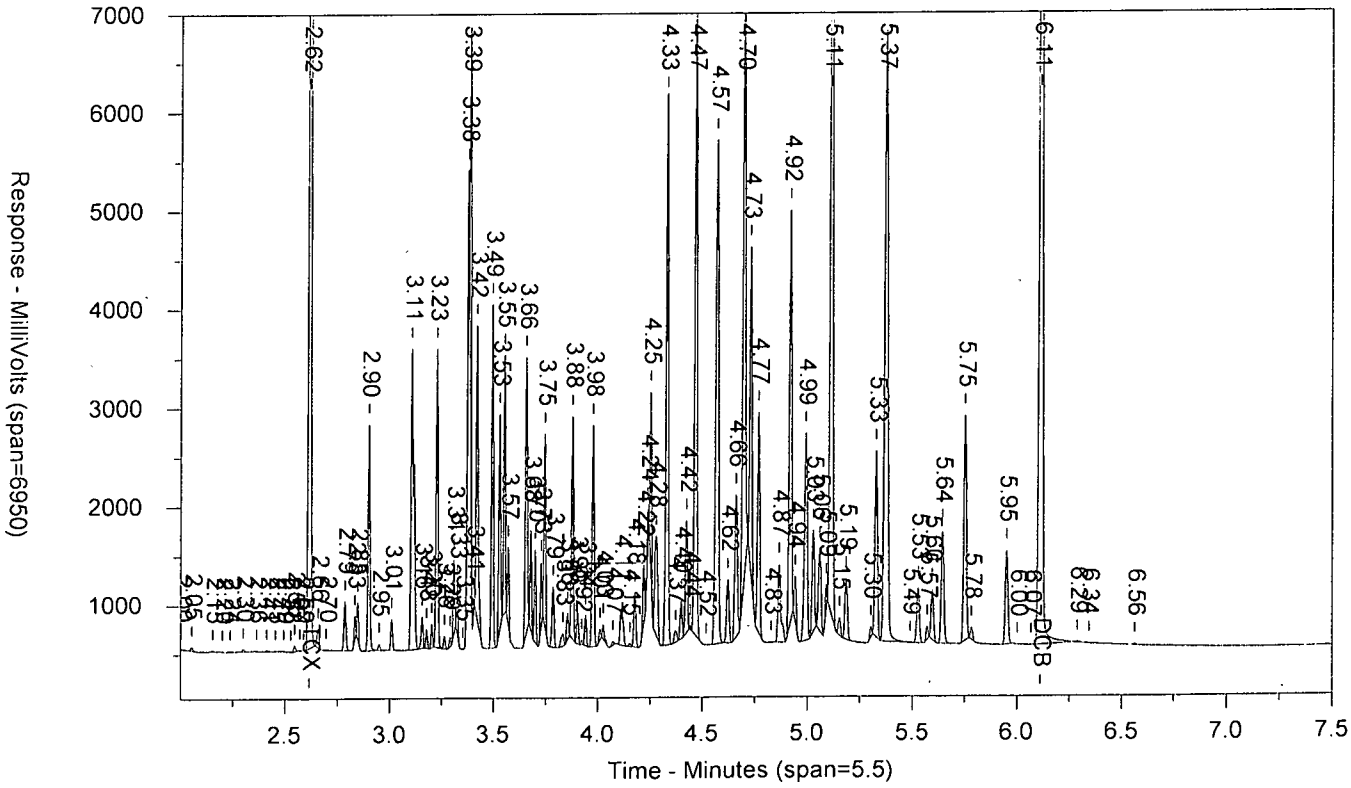

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4551063	40.048	TCX	2.615	28492550	41.215	TCX
6.616	2535823	36.849	DCB	6.11	17578490	36.082	DCB

Files:
Area File: 20pcbs17137001.029.RAW
Area File: 20pcbs17137001B.029.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:01:12 PM
File Reported On: 5/17/2017 at 10:01:19 PM

IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082

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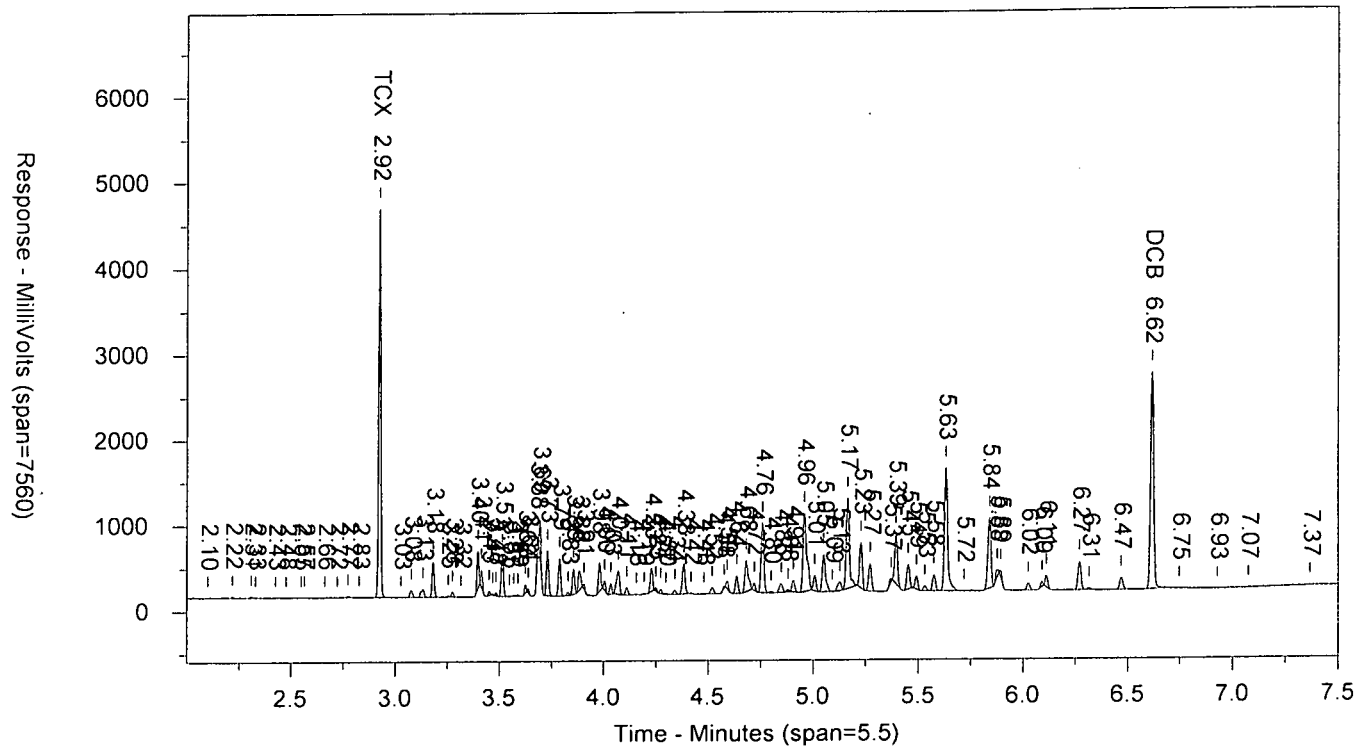

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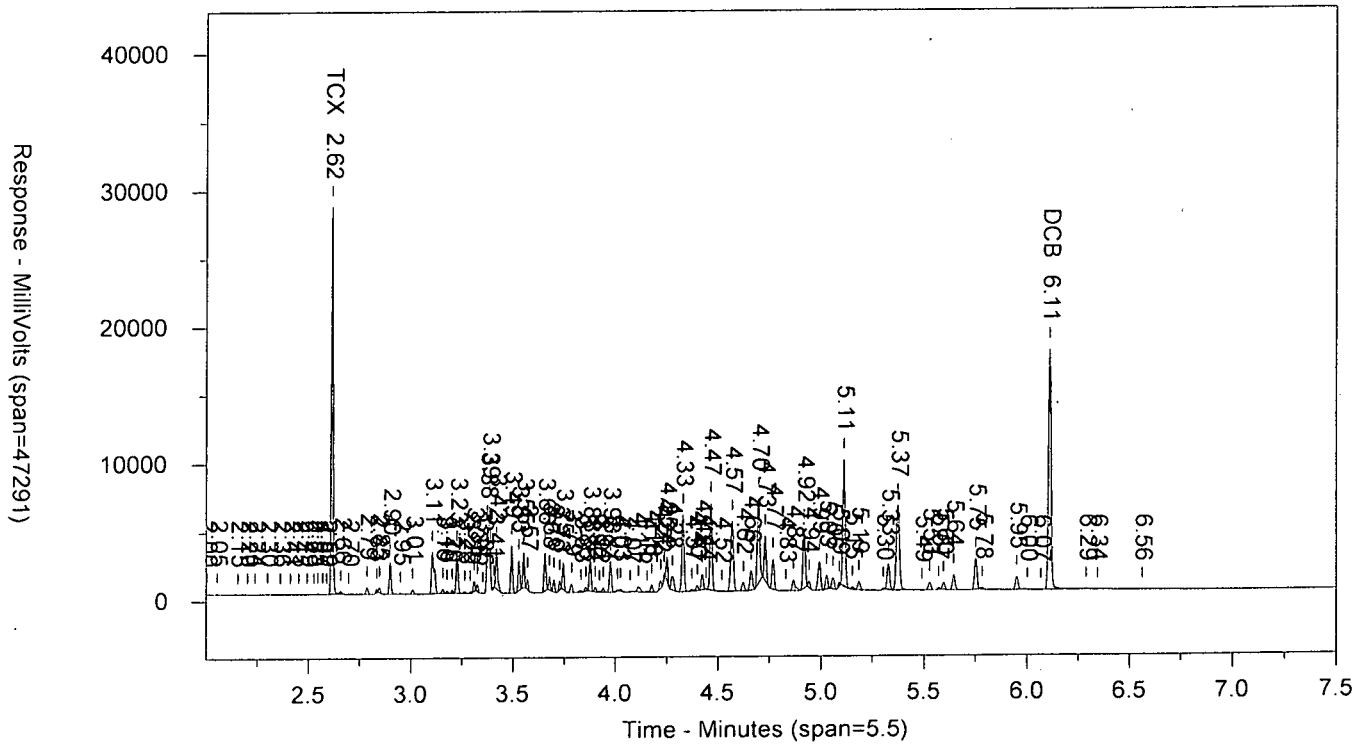

LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.030.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		5699	11729
2.218		15839	11993
2.31		26424	16117
2.329		4749	2434
2.425		3699	2888
2.461		1015	1816
2.504		1214	824
2.551		1792	1273
2.568		1119	617
2.774		24697	20662
2.83		3005	2835
2.924	TCX	4670822	3112688
3.011		1011	455
3.078		17019	14495
3.123		61768	47158
3.182		67573	47290
3.254		9214	5427
3.275		13748	8640
3.397		216984	132408
3.414		60198	31898
3.451		13230	7593
3.467		4670	2140
3.483		2607	1352
3.514		185744	140699
3.569		16545	9272
3.587		13304	7723
3.624		35009	20169
3.638		8116	3713
3.683		164778	89431
3.694		155074	78604
3.73		233498	185672
3.788		228655	183968
3.829		36509	25209
3.856		422380	311718
3.882		276602	228113
3.905		91117	50228
3.98		487449	361536
4.004		137486	88978
4.034		179679	130271
4.07		437553	402626
4.11		148088	115578
4.156		15570	12124
4.195		42958	36990
4.228		409490	285788
4.249		504872	331505
4.272		559698	403331
4.339		51076	46814
4.378		481994	418729
4.4		124790	67493
4.416		67294	37840
4.457		8487	5563
4.479		27675	21943
4.522		147163	137185
4.574		220103	188411

RT A	Compound A	Height A	Area A
4.605		128116	94872
4.635		370920	326558
4.68		4021	2759
4.72		149165	131081
4.757		26934	33569
4.808		37186	32815
4.85		249869	235021
4.88		14927	11176
4.929		21153	25154
4.957		16563	11171
4.974		14648	9995
5.007		1762	1487
5.05		249636	241666
5.092		5152	3898
5.12		38392	38231
5.166		57734	54684
5.205		5316	3437
5.271		1666	1231
5.376		25033	31672
5.452		2295	1769
5.472		1047	599
5.531		29311	28817
5.575		11706	11001
5.601		2582	1671
5.652		52811	61163
5.837		8910	9630
5.881		2455	3745
6.023		57077	57591
6.058		841	428
6.088		58445	51718
6.11		9729	6860
6.269		2045	1780
6.333		3308	3746
6.394		1014	1049
6.469		35272	36479
6.614	DCB	2599218	2640538
7.073		2158	2743
7.384		995	35518
8.048		708	679
8.26		455	1025
8.682		3598	4551

LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.030.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		4566	3995
2.054		48370	59889
2.118		12201	31041
2.156		9722	8504
2.203		11605	5430
2.238		11976	17842
2.273		3344	3748
2.301		4143	3803
2.368		1640	1551
2.411		11919	14148
2.477		3673	2743
2.547		74267	45740
2.571		2777	1850
2.615	TCX	28874900	16630890
2.659		18640	9314
2.704		11286	9031
2.787		112745	79835
2.833		365177	250986
2.899		357208	233817
2.949		70899	40916
2.984		2217	1322
3.01		85953	52431
3.106		1429669	1234427
3.157		90785	52767
3.178		58744	35659
3.203		28398	14940
3.227		1162137	768872
3.265		108594	66149
3.292		112278	57964
3.31		235762	119534
3.326		246238	129225
3.352		3063	1379
3.385		2874083	3150144
3.406		256313	109567
3.419		1158385	703721
3.494		1856379	1134735
3.529		3171716	1907711
3.552		2981381	1645904
3.57		986457	502050
3.656		4027090	2517047
3.678		1207439	652251
3.7		1241430	757492
3.729		632548	313698
3.745		2953178	1681835
3.786		1077676	754721
3.833		227977	190642
3.855		2343196	1426325
3.878		5638245	3511222
3.903		4046498	2476343
3.922		296772	146527
3.941		274610	154064
3.977		1561507	1097562
4.011		2844540	2116021
4.039		1600916	879574

RT B	Compound B	Height B	Area B
4.086		212159	187035
4.121		965383	720037
4.153		18178	9461
4.178		1596694	1175299
4.21		958765	656671
4.238		2456050	1783526
4.276		43156	39569
4.316		48412	29918
4.331		837631	600239
4.367		253342	184913
4.399		1634433	1220287
4.423		41349	19132
4.442		96960	61178
4.466		159838	102613
4.491		132991	94958
4.565		232409	234900
4.618		1604069	1281938
4.67		199702	189706
4.697		412022	357279
4.744		46952	32327
4.768		9192	7050
4.841		10707	19808
4.884		21112	17977
4.918		24118	16574
4.942		150408	118913
4.987		25357	28498
5.027		10430	6995
5.063		170850	132520
5.089		63427	43271
5.112		31787	20771
5.157		9547	6628
5.186		351372	307670
5.305		2150	1362
5.328		18894	15861
5.371		51515	53786
5.446		1799	1164
5.527		402473	352402
5.596		475819	417419
5.645		150937	136841
5.751		11138	9351
5.951		254951	212555
5.981		4576	3000
6.005		2945	1952
6.071		2138	1649
6.11	DCB	18498500	15732180
6.302		3108	2386
6.561		14401	18084
7.309		1790	2024
7.483		1824	2569
7.553		1792	3545
7.785		2101	9732
8.22		16520	29425

IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082

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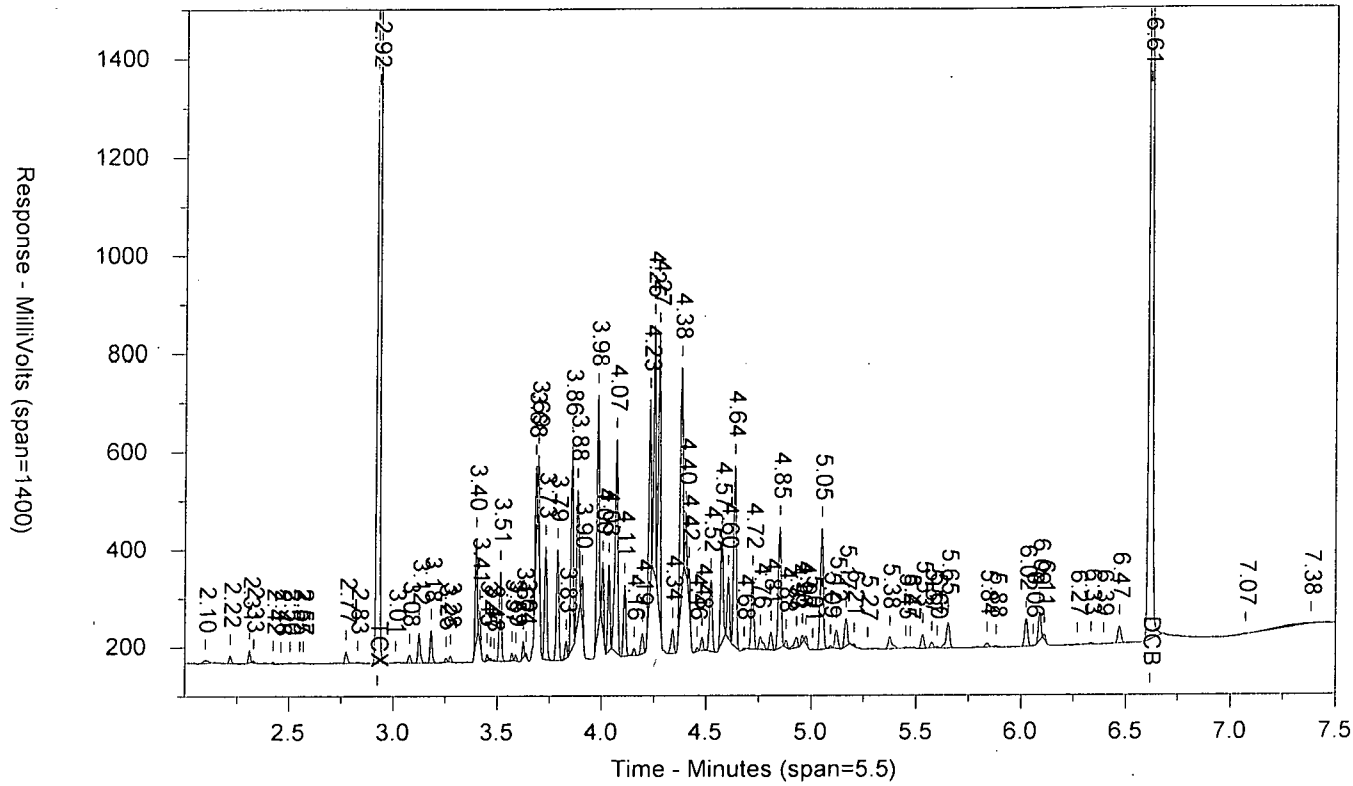

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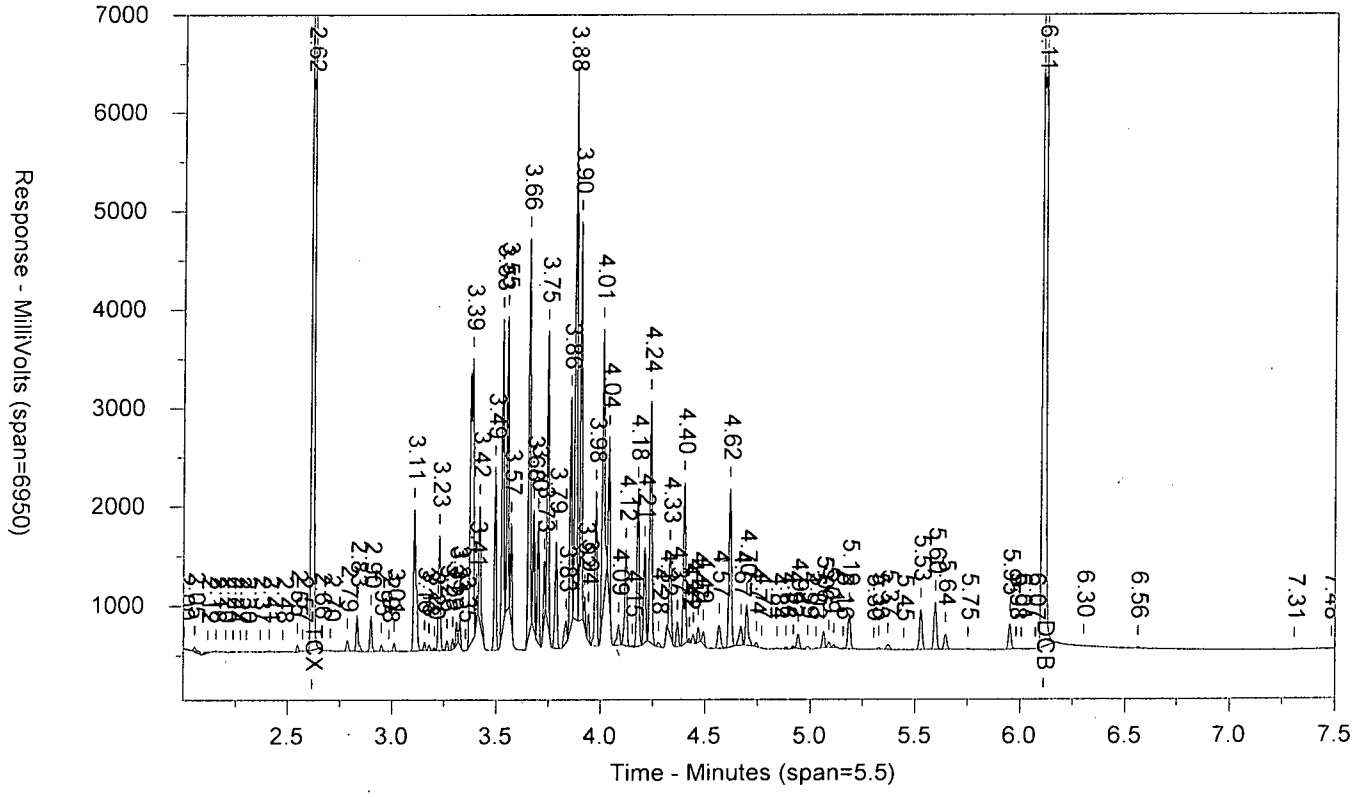

LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4670822	41.102	TCX	2.615	28874900	41.768	TCX
6.614	2599218	37.77	DCB	6.11	18498500	37.971	DCB

Files:
Area File: 20pcbs17137001.030.RAW
Area File: 20pcbs17137001B.030.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:12:41 PM
File Reported On: 5/17/2017 at 10:12:49 PM

IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082

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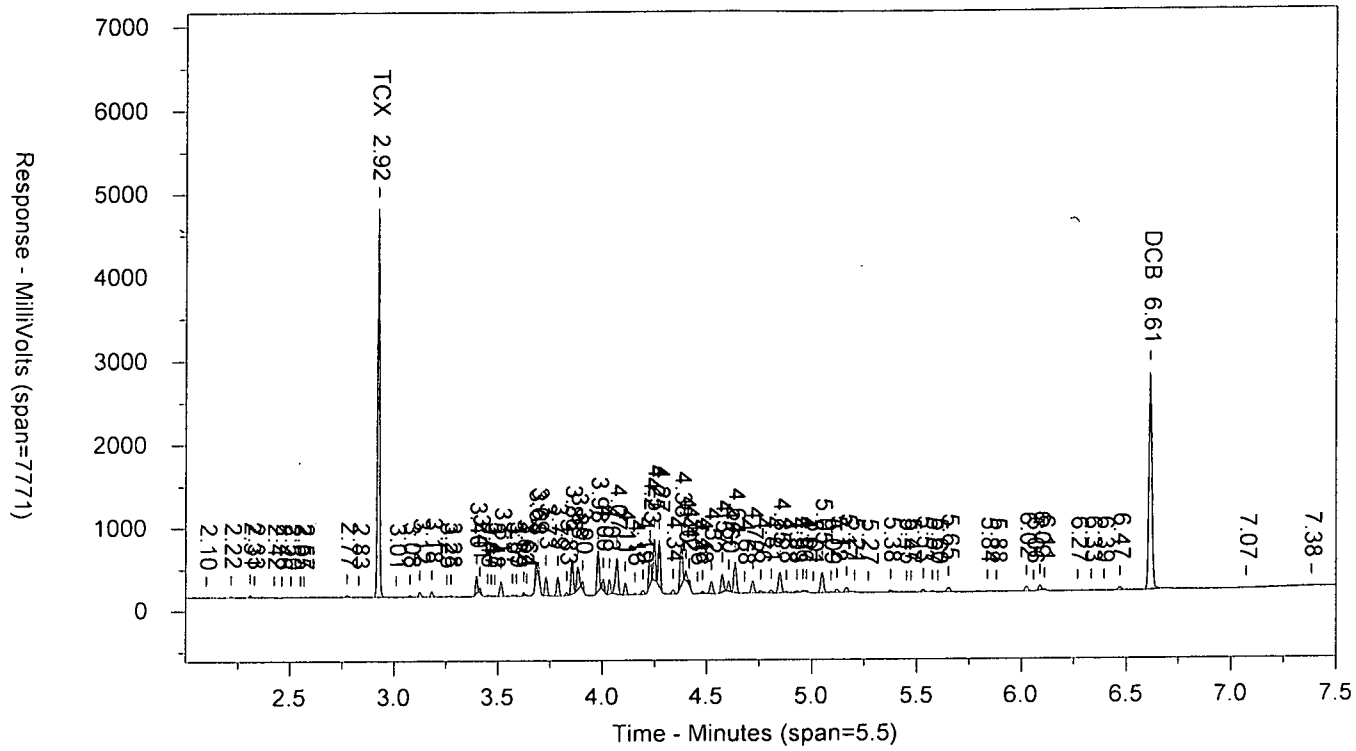

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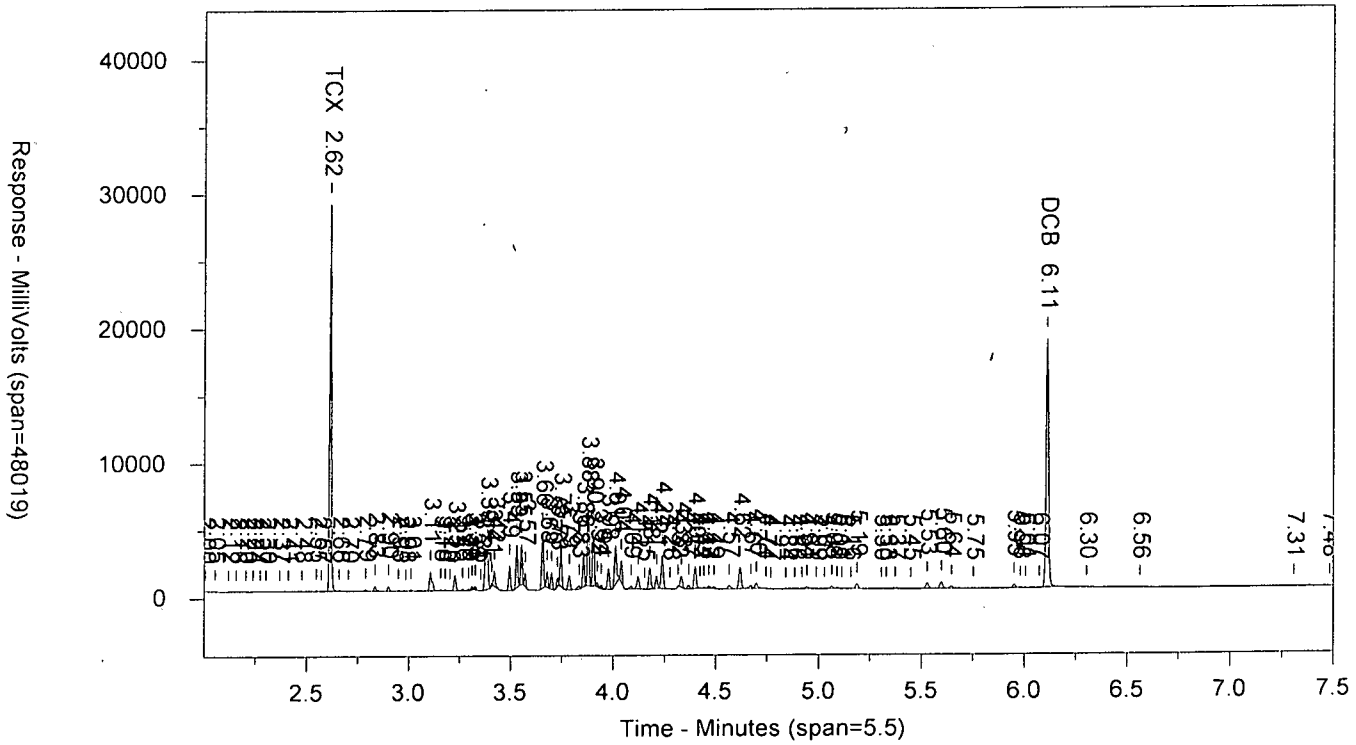

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.031.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		7098	11418
2.218		8330	6783
2.31		10224	6594
2.329		2529	1336
2.425		1874	1819
2.552		1290	2535
2.657		801	1560
2.774		32482	27245
2.828		2117	2013
2.924	TCX	2285469	1522363
3.076		4536	3831
3.124		31705	20928
3.182		10671	9043
3.255		4669	2804
3.397		19519	12079
3.414		5211	2815
3.467		6128	5832
3.513		14972	10228
3.569		6843	4095
3.588		13617	8384
3.624		2525	1730
3.682		11020	5521
3.695		7876	6645
3.731		41933	30843
3.787		16816	13008
3.828		2267	1414
3.856		397300	303164
3.883		111826	103964
3.979		253718	194700
4.004		14800	8165
4.035		28621	20171
4.069		114458	109348
4.11		23403	18267
4.138		1540	874
4.156		4686	2935
4.19		21271	16421
4.229		662635	490059
4.249		293716	173837
4.273		188493	142462
4.34		195418	161882
4.381		1085644	1042662
4.417		356426	295424
4.457		14119	9166
4.479		65286	51512
4.522		371516	328526
4.574		686872	616932
4.605		166598	108521
4.636		1401741	1211992
4.681		61117	42861
4.694		28359	14830
4.719		189888	154803
4.757		421630	423877
4.808		88192	76149
4.85		928203	870896

RT A	Compound A	Height A	Area A
4.878		18534	10535
4.905		87752	71041
4.929		17785	10364
4.957		325786	236436
4.974		137233	85412
5.007		11609	8969
5.05		732295	694114
5.093		78148	61974
5.119		83419	116964
5.166		953095	838170
5.188		38055	17713
5.204		22557	14146
5.228		21360	15201
5.271		30711	26316
5.376		309249	398039
5.425		1917	938
5.451		36952	33706
5.491		33791	30323
5.531		19196	18876
5.575		165300	156092
5.602		23982	16128
5.632		129790	149768
5.84		110749	106559
5.871		17157	18024
6.024		30198	31528
6.089		35609	30360
6.11		7522	4900
6.269		6229	6068
6.397		834	521
6.469		18562	19361
6.614	DCB	1267488	1343171
6.94		576	2260
7.457		6028	145215
8.242		853	1220
8.42		942	3036
8.681		2990	3763

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.031.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		8687	9036
2.054		19510	12684
2.155		9361	29380
2.243		12982	32442
2.357		3837	4261
2.41		4162	2688
2.453		3253	2312
2.477		4619	24567
2.547		99741	80967
2.615	TCX	14261130	8161377
2.739		2450	2057
2.787		21734	16483
2.833		191372	125073
2.899		63458	53314
2.949		35258	20419
2.987		2292	1234
3.01		9680	7250
3.106		136035	138977
3.179		47678	30550
3.203		5520	2509
3.228		99929	63710
3.265		109399	66001
3.292		60423	32249
3.311		20360	9371
3.326		60875	33582
3.376		160765	165859
3.406		49347	22834
3.42		180359	132153
3.494		147119	92815
3.528		3005385	1813061
3.552		997978	581766
3.57		95239	40828
3.587		20108	9915
3.656		1914618	1193657
3.678		155239	79024
3.7		228388	151491
3.729		194174	96598
3.745		685766	394409
3.785		201440	149396
3.825		156773	146060
3.855		651648	378225
3.878		7402528	4694650
3.902		748345	428751
3.922		689461	377506
3.941		1162877	698746
3.976		6307564	4241659
4.008		2426383	1501906
4.025		1434197	766275
4.086		478622	371864
4.121		2336316	1774735
4.178		5129437	3746212
4.211		1416893	996456
4.239		8742960	6470207
4.276		631778	611346

RT B	Compound B	Height B	Area B
4.33		4212095	3475363
4.367		634281	469649
4.399		5835235	4141655
4.423		862417	548107
4.466		3505994	2547704
4.491		162865	97558
4.566		3121899	2985743
4.618		4136349	3269422
4.658		964427	846487
4.697		6392117	6072525
4.744		461596	295749
4.768		201952	141782
4.827		73735	82163
4.884		315209	280581
4.918		300816	208347
4.942		1867441	1465418
4.992		244800	207236
5.028		198831	161819
5.061		160295	137710
5.09		909573	668435
5.112		639746	559645
5.153		15617	8687
5.186		195803	173116
5.248		3196	2559
5.301		3297	1753
5.327		31690	25901
5.37		756608	777371
5.528		206510	180862
5.573		24533	17154
5.596		233024	188332
5.645		101099	89389
5.751		39872	33475
5.95		125828	102865
6.11	DCB	8886612	8047574
6.235		3305	4459
6.282		3239	2928
6.562		6463	6145
7.545		2430	2987
7.687		1496	8713
7.812		1769	3873
7.859		2414	4305
8.215		17156	32850

IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082

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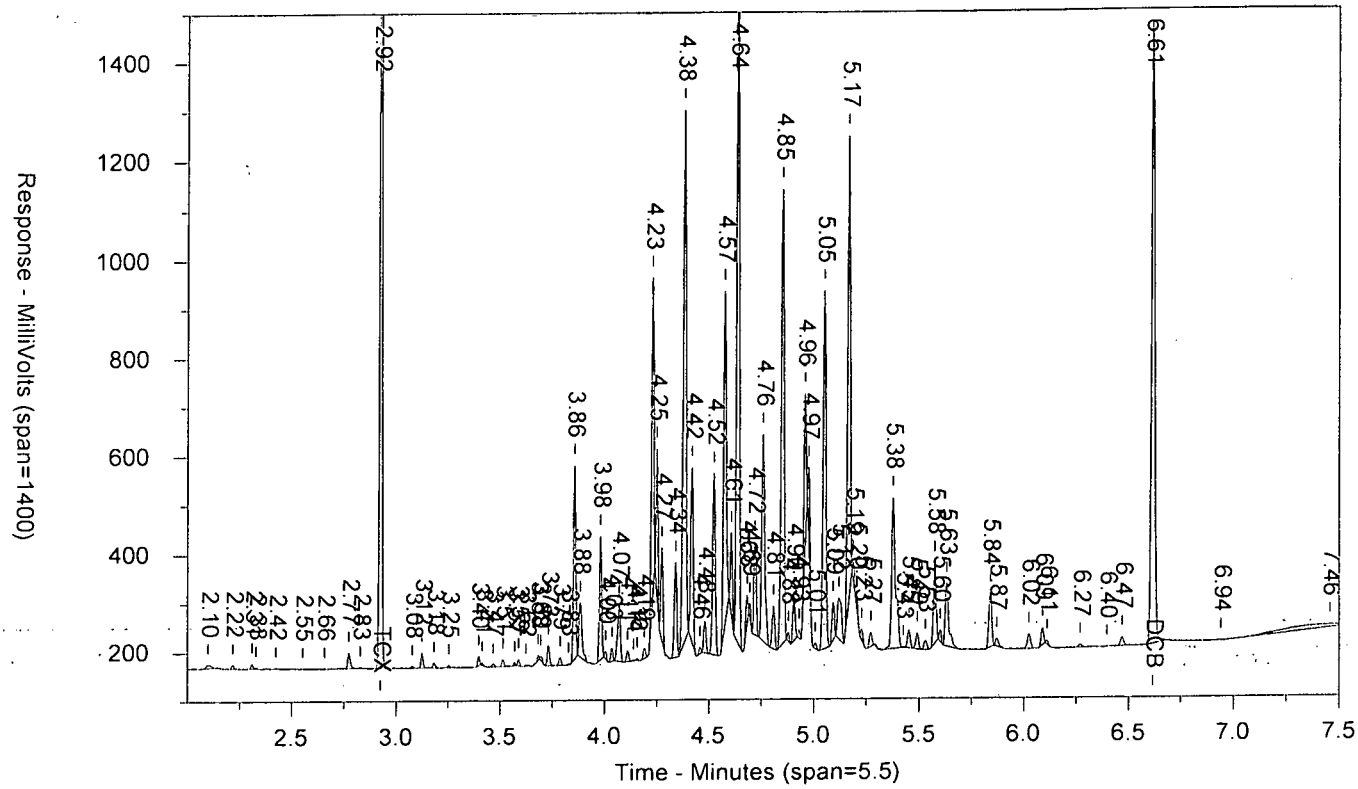

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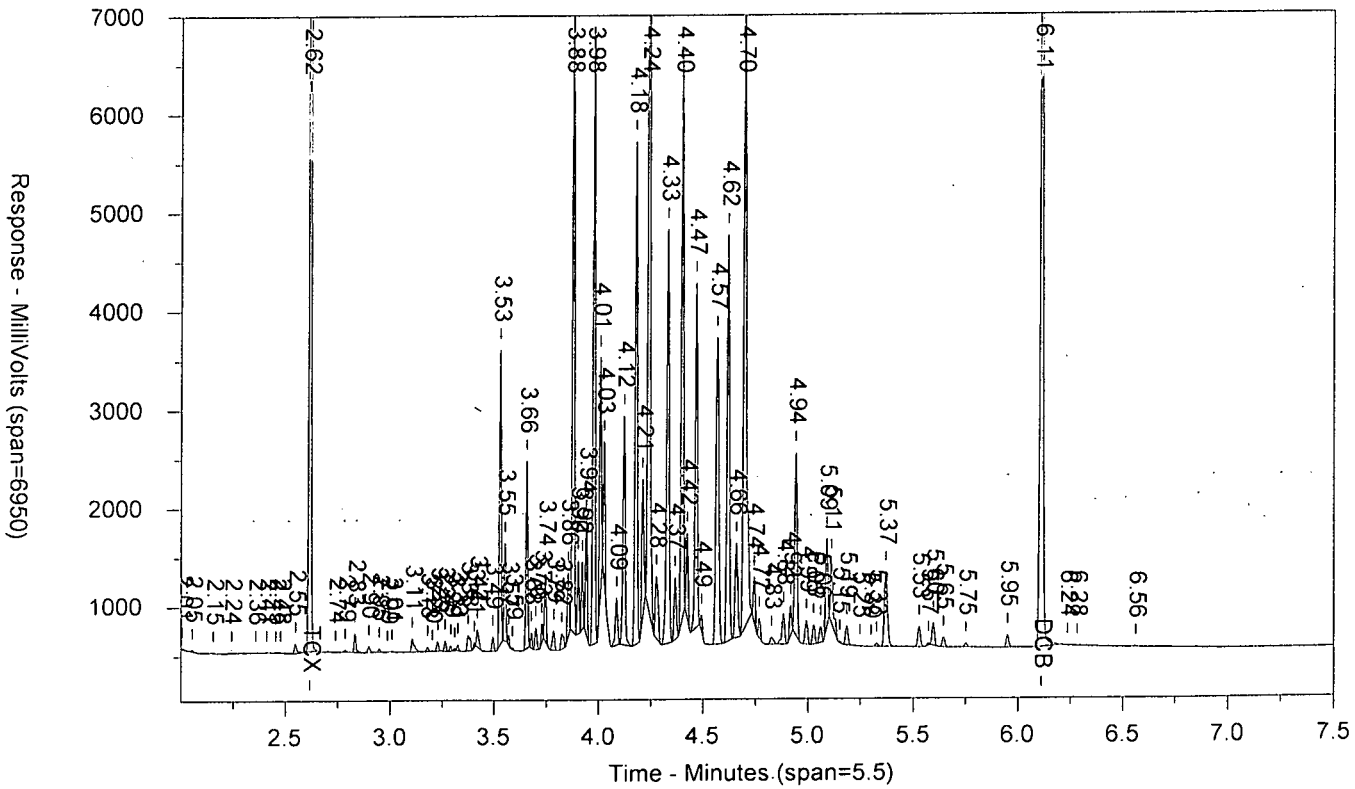

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2285469	20.111	TCX	2.615	14261130	20.629	TCX
6.614	1267488	18.418	DCB	6.11	8886612	18.241	DCB

Files:
Area File: 20pcbs17137001.031.RAW
Area File: 20pcbs17137001B.031.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:24:13 PM
File Reported On: 5/17/2017 at 10:24:19 PM

IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082

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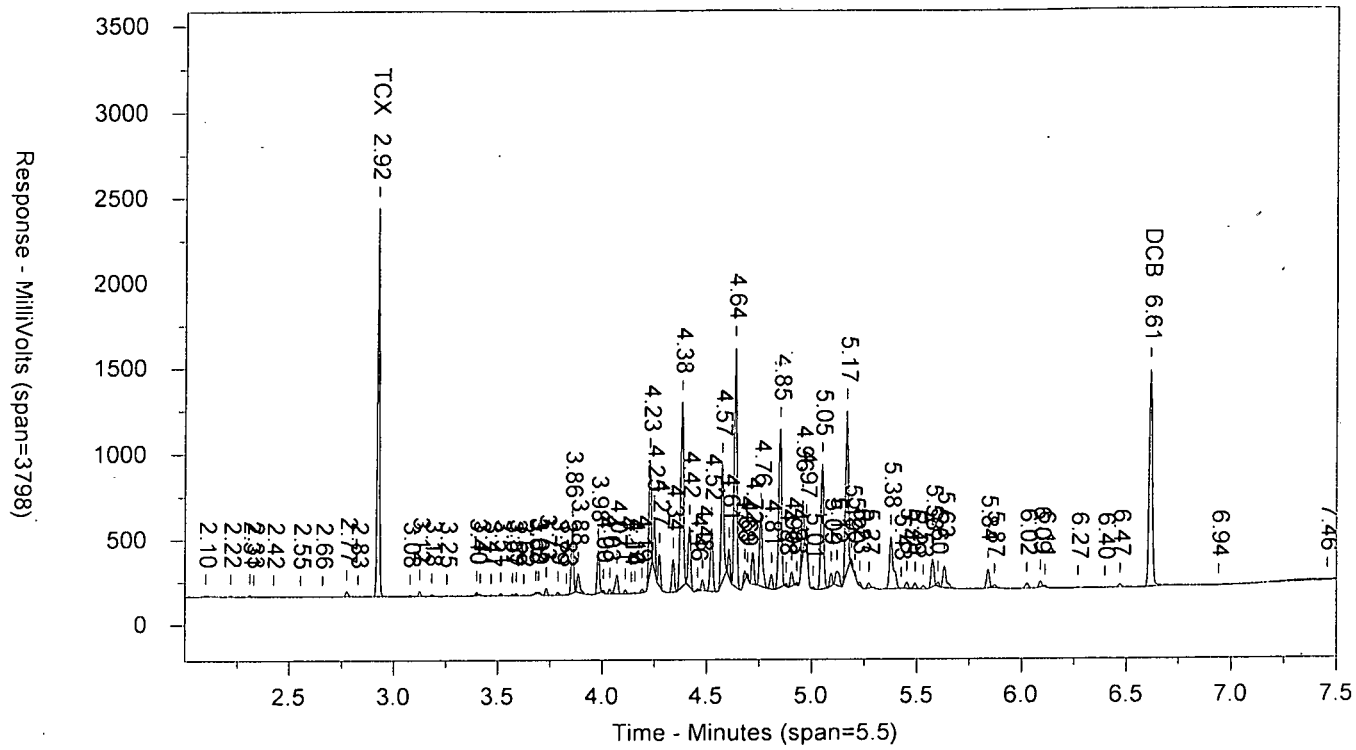

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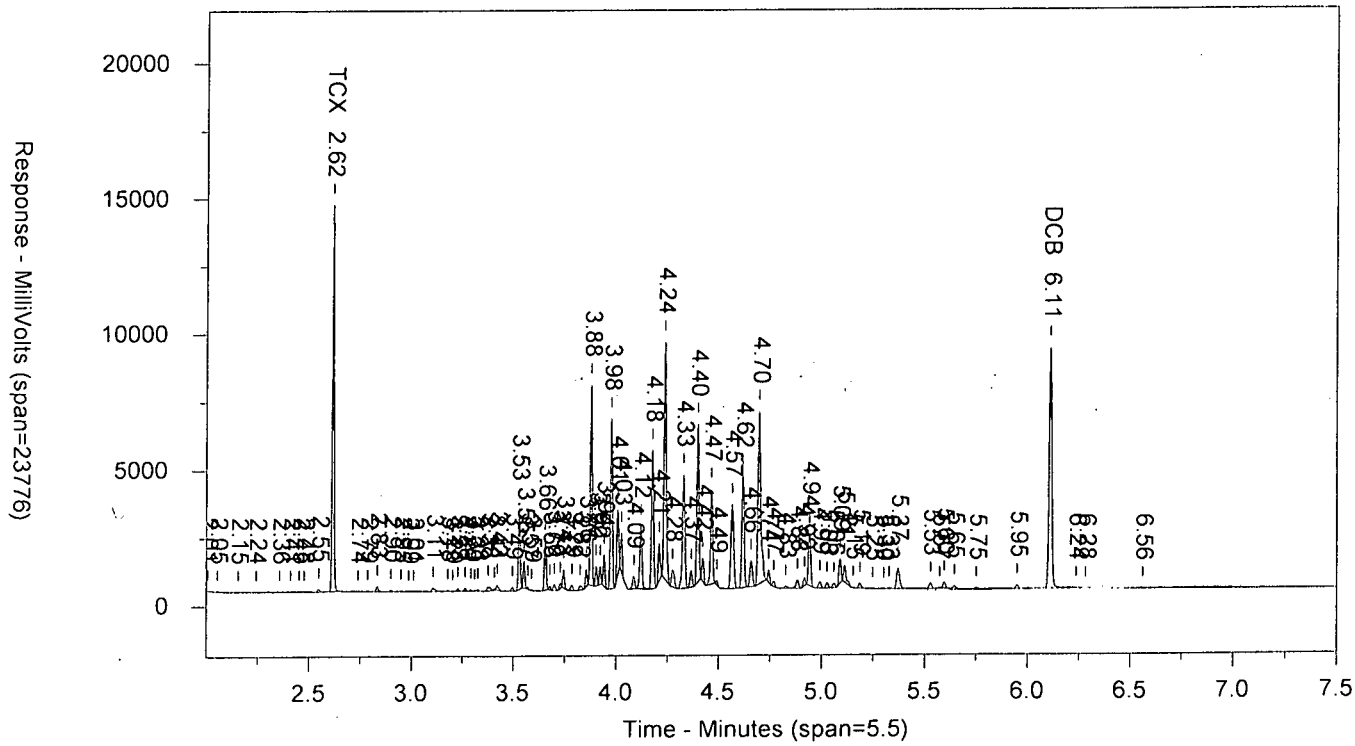

LANCASTER LABORATORIES

Sample Number: AR1631724A CQAR163CQ CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:32:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.005.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		15894	21763
2.219		15703	11726
2.311		11846	7449
2.33		4839	2870
2.38		2646	2800
2.427		3428	2903
2.503		1430	1915
2.567		5334	6599
2.66		1449	1208
2.72		903	775
2.777		52533	45890
2.831		3738	3936
2.926	TCX	4525750	3038694
3.029		1228	963
3.079		66794	57097
3.135		94985	100089
3.184		402228	291241
3.256		8782	4998
3.277		53654	35380
3.314		1270	873
3.364		720	478
3.399		429183	245344
3.415		183665	96373
3.452		48081	27862
3.467		12717	5115
3.485		39089	22428
3.514		457565	341722
3.549		1777	873
3.57		12805	7592
3.588		13690	8176
3.624		95624	55888
3.639		48487	23160
3.684		204019	108143
3.694		415662	219455
3.731		512963	386280
3.79		410972	325468
3.829		35055	23564
3.857		300018	221659
3.884		223563	184644
3.906		60964	33257
3.98		338803	243448
4.005		111766	72866
4.035		130999	94569
4.071		338739	349221
4.111		110648	89029
4.157		14677	11239
4.194		17541	14888
4.229		366213	272705
4.25		88682	51040
4.274		97078	71447
4.34		55928	49864
4.384		400290	365260
4.418		11249	7219
4.48		4444	3621

RT A	Compound A	Height A	Area A
4.52		51553	51183
4.576		34774	25296
4.59		83649	55728
4.636		248754	226981
4.682		346013	397432
4.719		81170	59705
4.759		804956	767959
4.802		7650	7644
4.85		135104	150482
4.88		16732	10545
4.905		146073	131342
4.958		947502	1215923
5.008		172178	155485
5.051		460416	496607
5.094		7494	4194
5.129		106932	127324
5.167		1156619	1265737
5.229		519210	476345
5.272		332995	321169
5.374		22783	36078
5.394		546746	496402
5.452		298215	278554
5.491		156555	138171
5.532		51090	49864
5.576		221469	209185
5.633		1493083	1520217
5.718		1209	1413
5.84		786423	830168
5.878		56820	66706
5.892		83374	62738
6.025		55525	57949
6.089		52866	39179
6.111		124206	111288
6.268		318236	326593
6.315		22597	21843
6.469		103600	109816
6.615	DCB	2556224	2765985
6.912		1282	3607
7.07		2530	2875

LANCASTER LABORATORIES

Sample Number: AR1631724A CQAR163CQ CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:32:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.005.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		19618	12811
2.054		37685	26047
2.105		1793	702
2.156		5497	5132
2.239		19287	23827
2.3		23918	16921
2.344		2110	1700
2.366		3805	3679
2.394		3239	1628
2.412		6716	6726
2.477		9418	12563
2.527		7950	6372
2.547		137637	98234
2.592		4099	2014
2.616	TCX	28223700	16317360
2.659		179599	125275
2.704		4768	5971
2.786		425730	279555
2.833		253106	120416
2.847		390169	194367
2.899		2257328	1376130
2.949		70261	40560
3.01		291812	190316
3.106		2860766	2747160
3.157		318369	197612
3.178		171866	96478
3.204		258303	141173
3.227		2908229	1860808
3.264		119719	68911
3.292		91236	44235
3.31		739012	382616
3.325		511889	257834
3.352		6325	3113
3.376		1539284	739326
3.385		3348490	1450080
3.405		124806	44780
3.419		2789464	1806903
3.493		3353611	2041188
3.528		2211612	1367549
3.551		2419085	1337845
3.569		785657	396261
3.654		2801882	1807264
3.677		957403	524372
3.698		980070	581683
3.727		647588	333179
3.744		2420501	1378244
3.784		820174	597872
3.832		130225	113620
3.854		614062	370816
3.876		3106625	2030475
3.901		663316	398157
3.921		107977	50871
3.939		347827	215694
3.975		2672947	1751120

RT B	Compound B	Height B	Area B
4.008		129724	75316
4.024		206320	134093
4.073		14594	10090
4.085		13063	7305
4.119		229614	259011
4.152		16121	8065
4.176		716065	513197
4.219		563091	330862
4.237		626171	333819
4.25		1670265	900984
4.277		1044284	1034394
4.328		5676469	4216851
4.374		93512	84108
4.398		614610	408541
4.422		1265909	891121
4.465		6546101	4998962
4.568		5229346	5087085
4.621		676732	582997
4.659		1420765	1310796
4.696		6799170	5611331
4.728		3108286	2130821
4.767		2222172	1752054
4.836		12239	12414
4.866		763649	800271
4.917		3939607	3179156
4.941		552240	363813
4.991		2160792	1914667
5.027		1073420	861865
5.057		825519	719664
5.089		384762	215758
5.111		8925709	7420324
5.152		199393	149277
5.184		576755	466414
5.303		102100	66546
5.327		1850984	1517704
5.371		6321105	6597370
5.527		398359	341832
5.571		157717	111984
5.595		387152	304037
5.644		1083314	969645
5.751		2153915	1879655
5.782		133609	96514
5.95		705500	622507
6.069		3160	2592
6.109	DCB	18058990	16008220
6.282		6835	7557
6.559		12134	11840
7.426		2117	3001
7.531		2398	3801
8.133		1353	1272
8.217		18740	35098

AR1631724A CQAR163CQ CCAL 1714099999 10736 SW-846 8082

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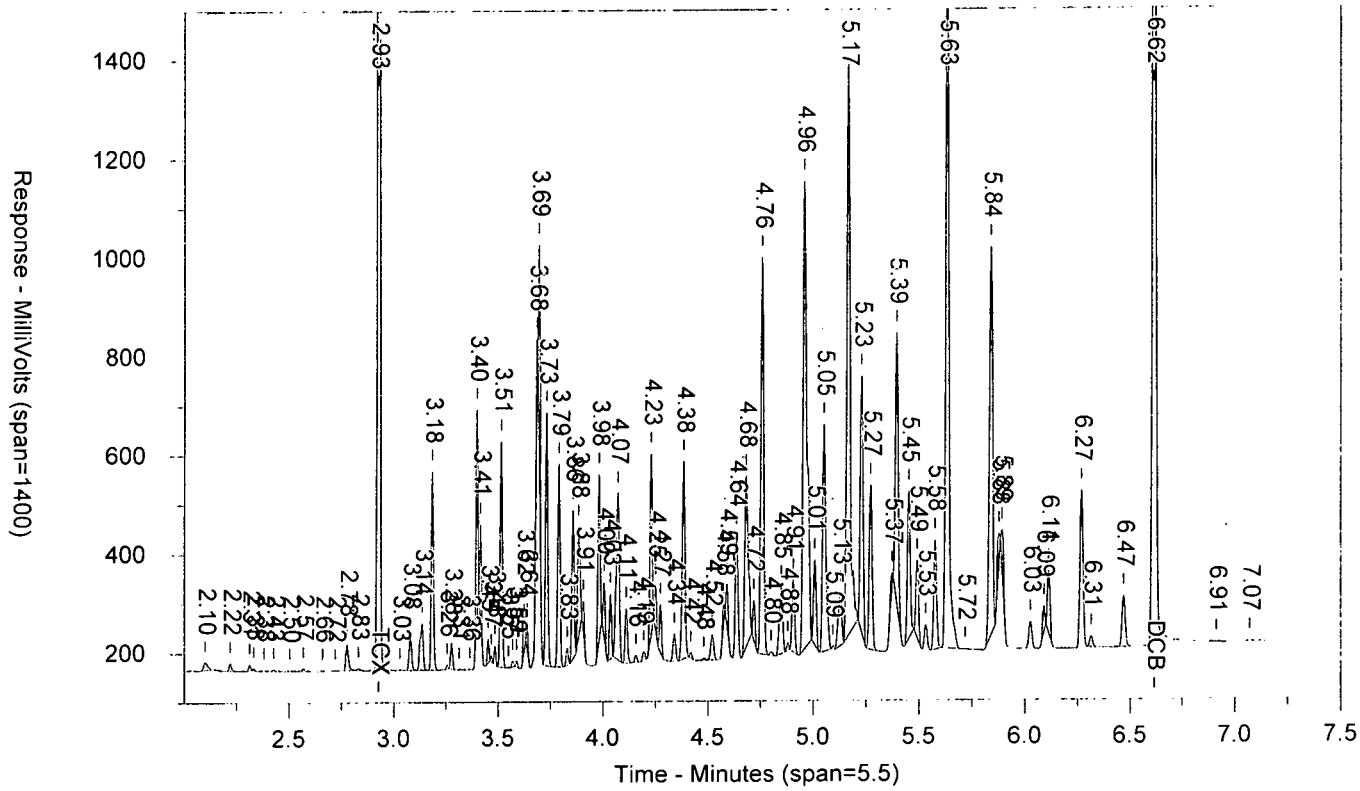

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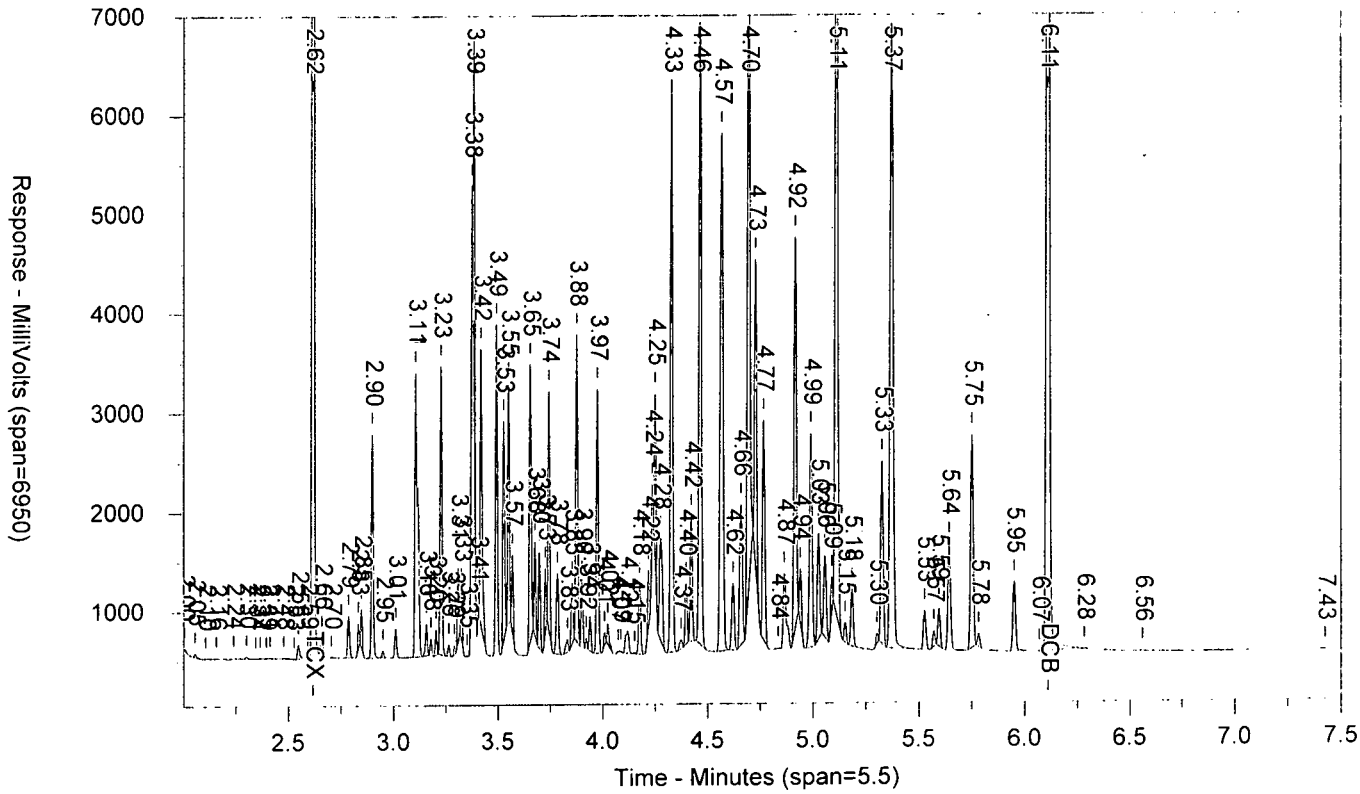

LANCASTER LABORATORIES

Sample Number: AR1631724A CQAR163CQ CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:32:23 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.926	4525750	39.825	TCX	2.616	28223700	40.826	TCX
6.615	2556224	37.146	DCB	6.109	18058990	37.069	DCB

Files:
Area File: 20pcbs17137004.005.RAW
Area File: 20pcbs17137004B.005.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 2:41:04 PM
File Reported On: 5/21/2017 at 2:41:13 PM

AR1631724A CQAR163CQ CCAL 1714099999 10736 SW-846 8082

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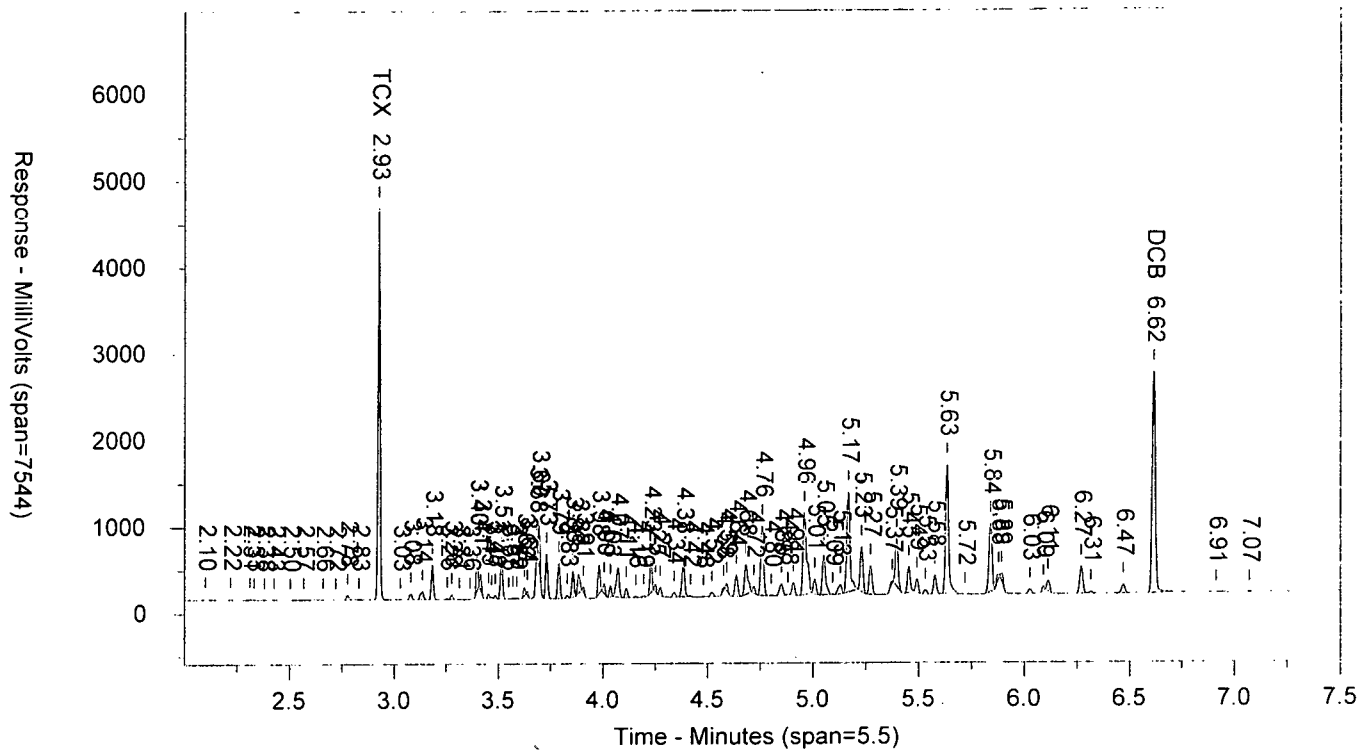

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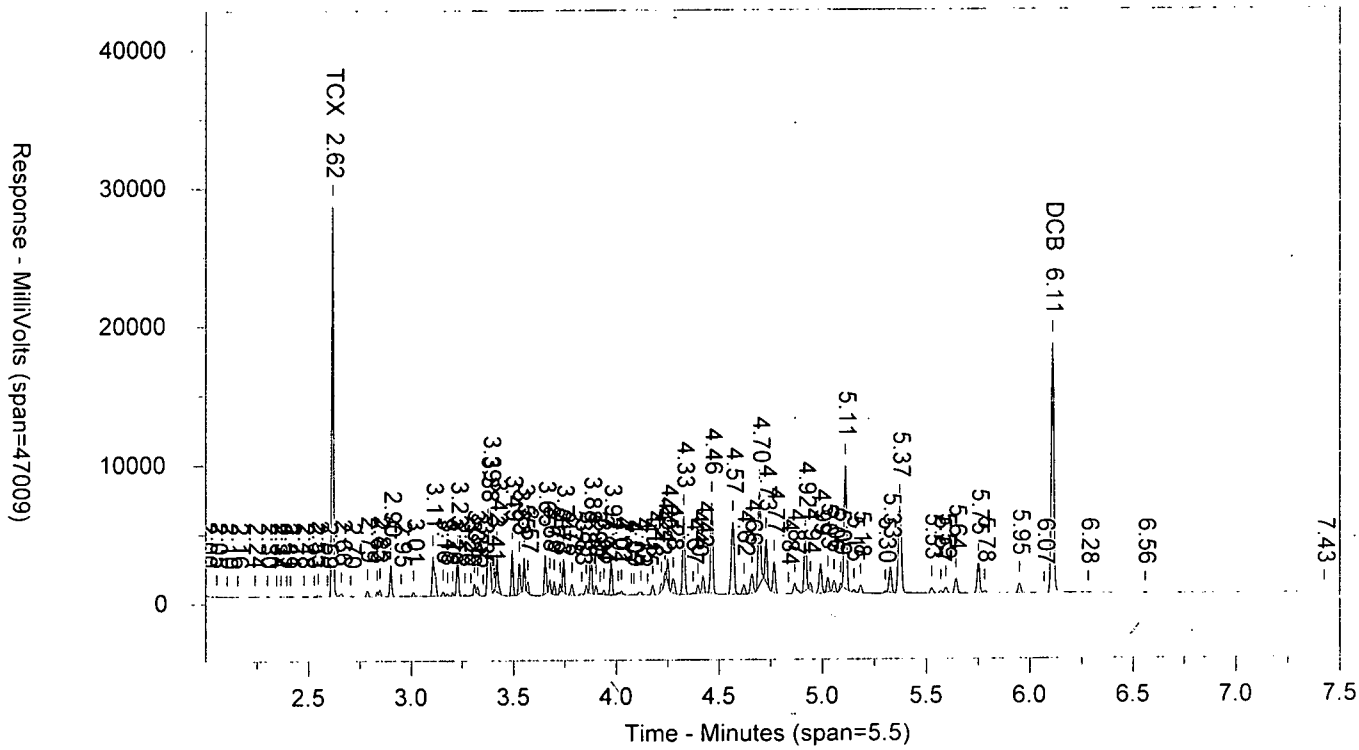

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VKPIBLKVK PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:43:48 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.006.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		7332	17830
2.219		8232	6768
2.311		13210	8283
2.331		2254	1115
2.379		1845	2183
2.425		1940	2108
2.554		1385	1016
2.656		1153	773
2.776		30294	25616
2.831		2286	2374
2.925	TCX	2316679	1529627
3.125		31576	19922
3.193		2243	1930
3.255		5232	3917
3.394		772	888
3.493		1462	989
3.534		1531	1518
3.569		6499	4558
3.668		7431	5737
3.854		1449	1401
4.196		2336	4905
4.299		4103	4434
4.39		771	801
4.509		1578	2092
4.574		1104	994
4.88		6818	8020
5.042		1440	1486
5.121		12378	12030
5.208		1136	987
5.434		1529	3511
5.532		12309	12533
5.596		833	418
5.654		21777	21390
5.838		1319	1653
6.025		25113	24416
6.089		23012	20198
6.111		4108	2645
6.363		548	1320
6.392		1113	1585
6.468		15655	16757
6.614	DCB	1374824	1452764
6.995		595	449
7.07		1265	1355
7.652		671	414
7.875		690	3709
8.031		423	2373
8.112		915	887
8.682		3968	6574

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VKPIBLKVK PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:43:48 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.006.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		5652	2880
2.054		20781	14874
2.116		2490	1528
2.156		9101	6945
2.239		15079	20638
2.274		3102	4293
2.365		2059	2190
2.413		7781	9783
2.476		6395	10075
2.547		92080	70726
2.592		2497	1136
2.616	TCX	14088790	8308522
2.778		5362	2713
2.802		2601	2075
2.833		186925	116712
2.881		6407	6088
2.949		36348	21947
2.986		4587	3862
3.181		15050	28509
3.268		2823	1363
3.291		53245	30168
3.326		64221	39919
3.352		1913	1079
3.379		3565	3202
3.41		12333	9219
3.449		7966	11123
3.546		4629	6147
3.583		1995	1139
3.712		5517	5718
3.773		3603	2978
3.83		2860	3923
3.863		1705	915
3.936		11708	7589
3.981		3623	6684
4.073		31645	27389
4.151		7699	6217
4.198		5023	5976
4.234		7118	19636
4.369		2700	3025
4.44		45920	45467
4.526		2467	3038
4.581		3768	5391
4.621		3905	2397
4.642		8191	5368
4.668		79952	61520
4.839		5696	9908
4.915		2804	2408
4.983		6299	6253
5.026		1890	939
5.062		68211	61163
5.156		2313	1588
5.185		139648	115708
5.326		2432	2385
5.371		4977	5213

RT B	Compound B	Height B	Area B
5.469		1937	1514
5.526		169713	144903
5.595		191983	164573
5.643		60422	52564
5.949		108515	92632
6.001		2403	1628
6.108	DCB	9351417	8364770
6.489		2008	3590
6.556		6702	6462
7.307		2066	3170
7.432		1828	3297
7.543		3003	5849
8.066		1495	1902
8.213		18311	31852
8.638		3843	19639

IBLKX1724A VKPIBLKVK PIBLK1714099999 10736 SW-846 8082

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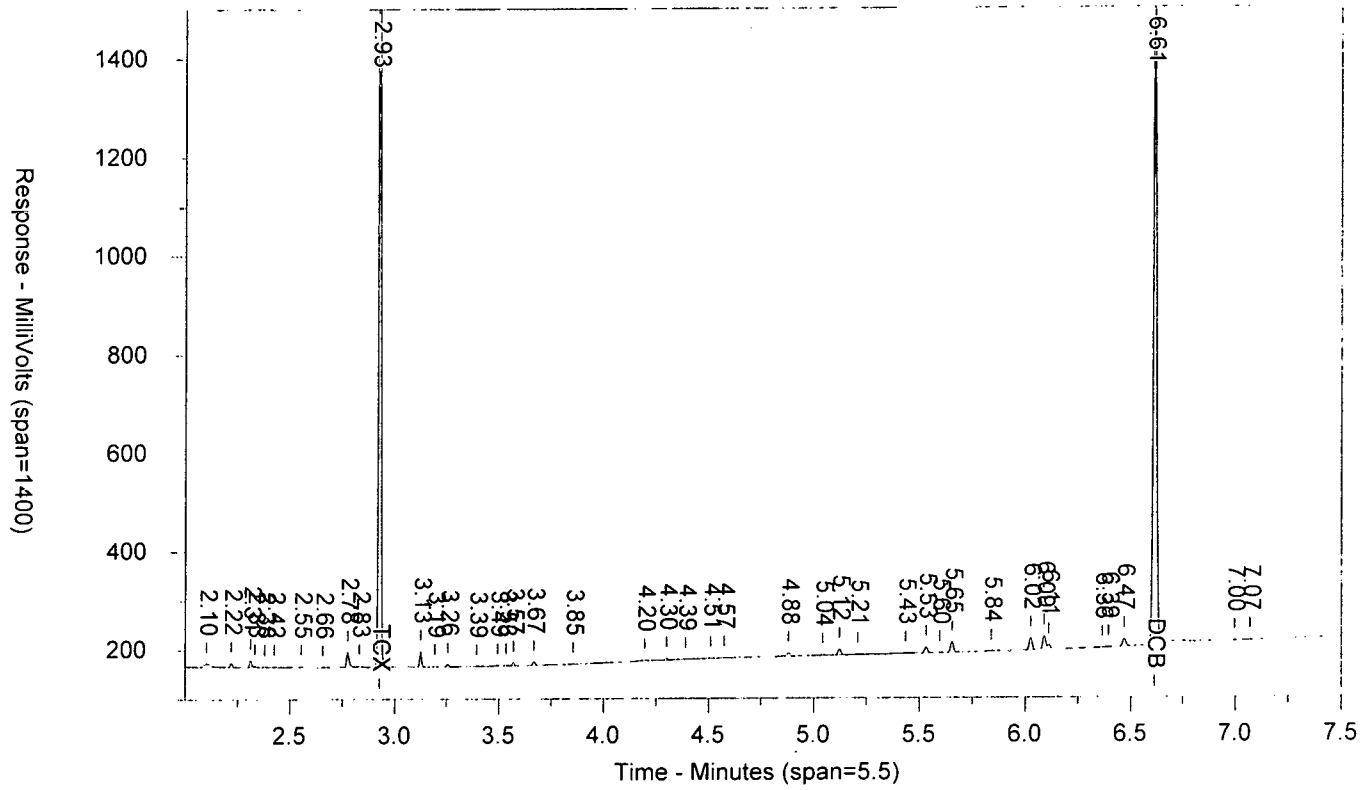

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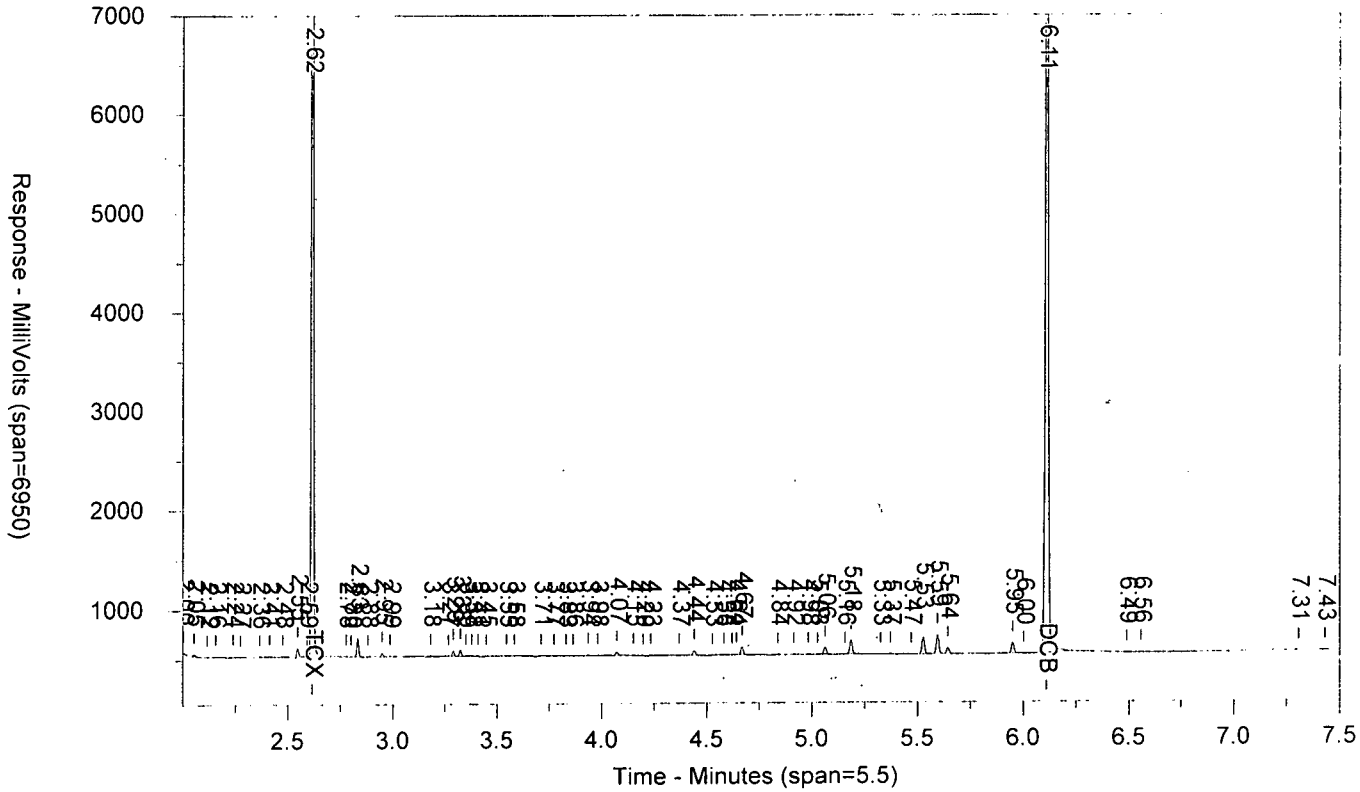

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VKPIBLKVK PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 2:43:48 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	2316679	.204	TCX	2.616	14088790	.204	TCX
6.614	1374824	.2	DCB	6.108	9351417	.192	DCB

Files:
Area File: 20pcbs17137004.006.RAW
Area File: 20pcbs17137004B.006.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 2:52:33 PM
File Reported On: 5/21/2017 at 2:52:40 PM

IBLKX1724A VKPIBLKVK PIBLK1714099999 10736 SW-846 8082

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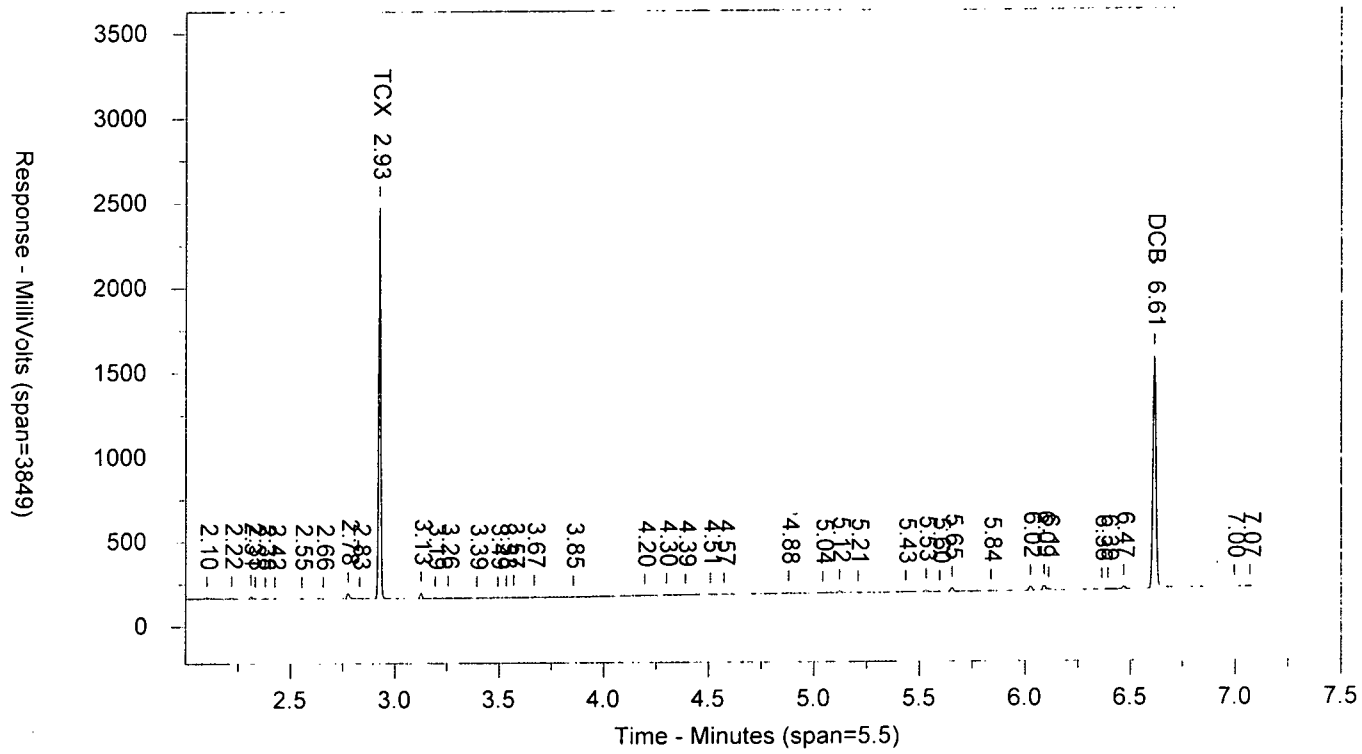

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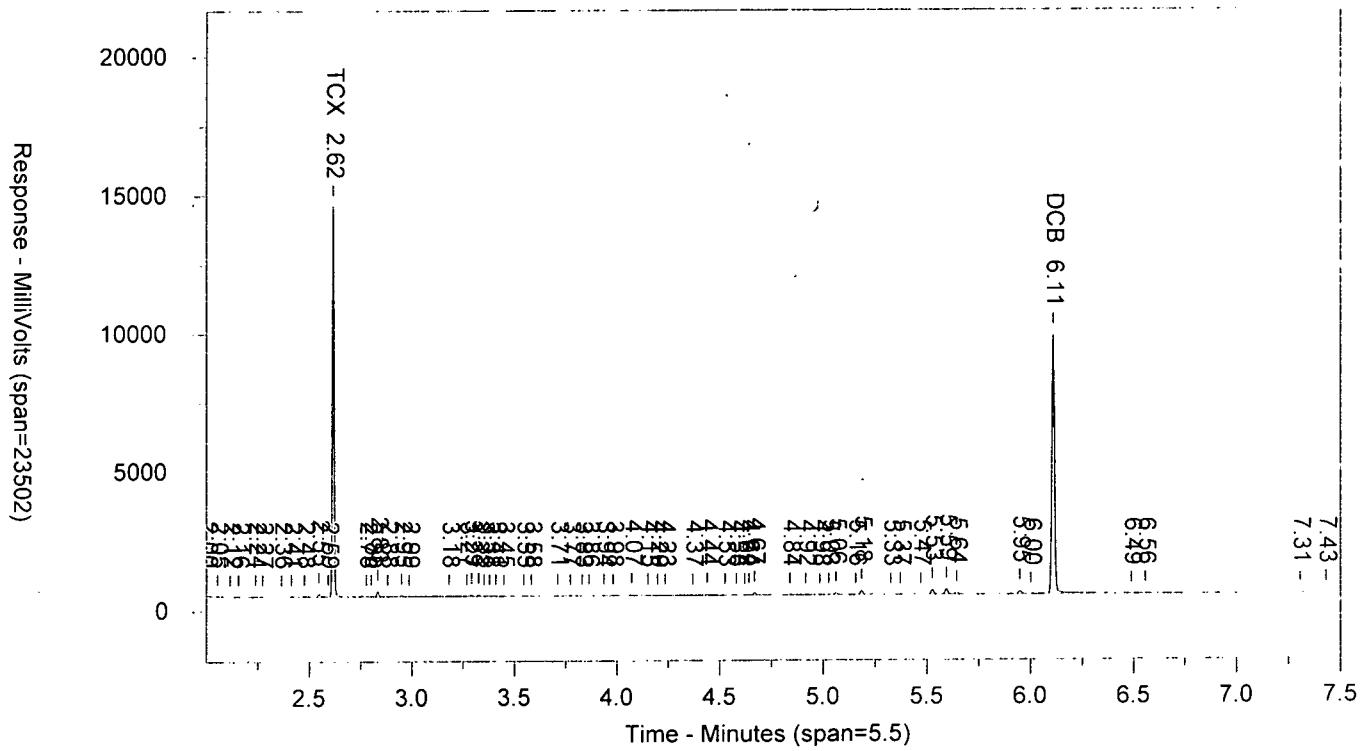

LANCASTER LABORATORIES

Sample Number: AR1631724A CRAR163CR CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:43:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.027.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.102		14769	20569
2.219		16461	12506
2.311		14572	9322
2.329		5328	2939
2.383		2255	2814
2.425		3647	3157
2.566		5316	6933
2.658		1472	1492
2.724		1185	1519
2.776		27313	22712
2.83		3926	4052
2.925	TCX	4873821	3201941
3.027		1450	2074
3.077		73932	61138
3.135		100936	105408
3.183		422076	305812
3.256		8947	4941
3.276		55884	37065
3.314		1799	1266
3.364		878	569
3.398		440735	261371
3.414		192747	104164
3.451		53278	29849
3.466		15602	6226
3.483		39372	23354
3.513		493551	365025
3.549		1902	925
3.569		14787	8795
3.587		16097	9314
3.623		98670	58342
3.638		47557	22808
3.682		235014	118365
3.693		505038	252986
3.729		547954	408357
3.788		436579	343923
3.829		36490	25168
3.856		322880	232220
3.883		227903	189089
3.904		60658	33355
3.98		340771	253643
4.003		118612	77189
4.034		136601	98261
4.07		350145	366087
4.11		116625	92831
4.155		16368	12102
4.193		20076	16345
4.228		381380	285316
4.248		96105	54898
4.272		100067	74358
4.298		2345	1388
4.339		60458	52621
4.382		392645	383363
4.417		13553	8757
4.478		5526	4494

RT A	Compound A	Height A	Area A
4.519		67536	69055
4.574		41837	28107
4.589		82458	53654
4.635		267179	237163
4.68		363893	410687
4.718		87435	64414
4.757		855573	801845
4.799		11723	11447
4.848		136006	157063
4.879		23560	16123
4.904		146810	132203
4.957		1016081	1271482
5.006		179385	163159
5.049		494190	522883
5.093		9472	5833
5.128		107499	141539
5.165		1171221	1098633
5.188		30767	15330
5.228		527339	490479
5.271		330772	334752
5.393		673721	889264
5.452		306547	282297
5.49		161152	141990
5.531		63309	60657
5.576		232314	217120
5.632		1593514	1589069
5.838		826331	854111
5.88		51817	71826
5.889		45981	49724
6.023		69929	73375
6.087		69648	53078
6.11		130836	110750
6.267		323409	332160
6.311		23289	22238
6.467		114512	112736
6.612	DCB	2672257	2822538
6.874		800	748
7.069		2431	2893
8.253		681	448

LANCASTER LABORATORIES

Sample Number: AR1631724A CRAR163CR CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:43:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.027.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.008		36518	38777
2.054		40696	27647
2.156		7016	6495
2.201		6806	3876
2.241		17876	28755
2.3		25060	16934
2.365		4463	6611
2.413		8829	11478
2.48		12572	22980
2.53		9967	9161
2.547		80894	49820
2.569		4973	3011
2.593		4623	2114
2.616	TCX	30152650	17234640
2.659		195077	133645
2.704		5307	3236
2.786		457929	296687
2.833		256763	123179
2.847		395719	199383
2.899		2350315	1458123
2.949		73760	44354
2.988		4101	2205
3.01		309738	195975
3.106		3016700	2897311
3.157		330766	208483
3.178		181801	102076
3.203		272996	150148
3.227		3005721	1968459
3.264		127599	74302
3.292		103655	51483
3.31		774845	404740
3.325		511712	251721
3.353		6639	3209
3.375		1866016	812011
3.385		3762981	1553039
3.405		131312	49820
3.418		3002233	1916606
3.492		3559062	2147620
3.527		2290161	1430113
3.551		2576007	1400535
3.568		825481	409245
3.654		2944521	1896557
3.676		1034857	550171
3.697		1007638	591904
3.726		713712	368044
3.743		2475163	1444448
3.784		863706	630625
3.831		167669	140761
3.854		660578	385986
3.875		3381566	2124919
3.901		674821	411329
3.92		117063	56932
3.939		381219	232574
3.974		2721386	1837979

RT B	Compound B	Height B	Area B
4.008		146306	86163
4.023		227372	145574
4.071		18720	11205
4.085		15757	9110
4.11		283777	340281
4.152		26832	14428
4.176		736901	533622
4.218		567259	343928
4.236		565537	298205
4.249		1617218	904422
4.275		1061612	1077182
4.328		5821831	4413226
4.372		113578	105988
4.397		643554	422720
4.422		1280275	922602
4.464		6785712	5106794
4.517		5160	5070
4.567		5599843	5290527
4.62		733076	623596
4.659		1503855	1381457
4.695		7301821	5857941
4.727		3284314	2240526
4.766		2230557	1787362
4.84		25908	20069
4.866		778227	810318
4.917		4206803	3301985
4.941		592542	389958
4.991		2190426	1985564
5.027		1090445	887601
5.057		889410	765973
5.088		376012	226013
5.111		9473794	7682985
5.152		200890	147966
5.185		702888	584049
5.224		5587	3327
5.302		113265	72059
5.326		1871860	1559100
5.371		6239978	6748641
5.526		515847	441069
5.571		147253	104784
5.595		529954	425246
5.644		1133630	1017619
5.75		2184005	1912625
5.781		133029	95850
5.902		3505	2878
5.949		755296	654381
6.001		3766	1814
6.071		2576	1603
6.108	DCB	18621640	16478900
6.282		5369	9905
6.445		3815	5341
6.558		13753	10818
6.862		1405	1151
6.999		1315	715
7.307		2525	3184
7.423		1881	2041
7.533		3077	4933
7.792		2657	4566
7.845		2074	3640
8.213		19785	36978
8.365		1592	2744

AR1631724A CRAR163CR CCAL 1714099999 10736 SW-846 8082

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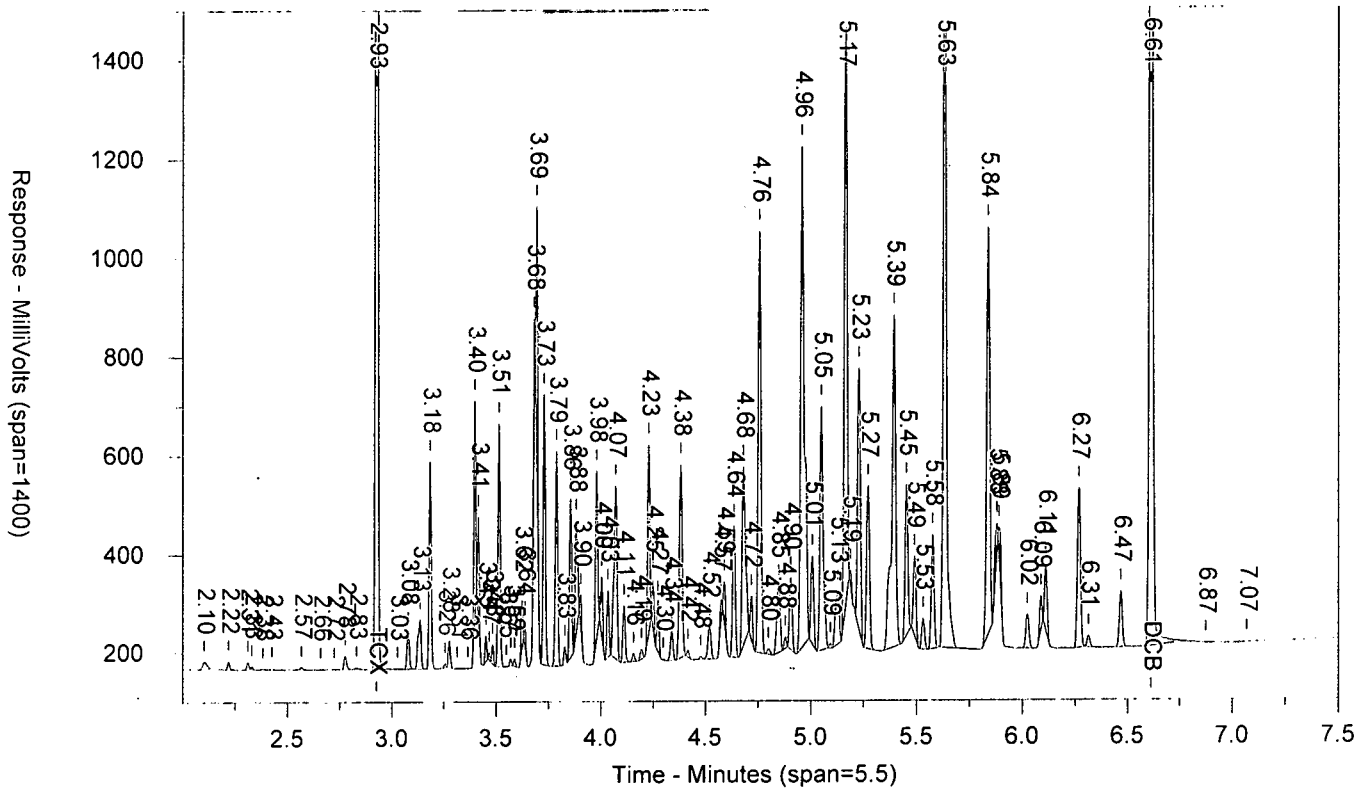

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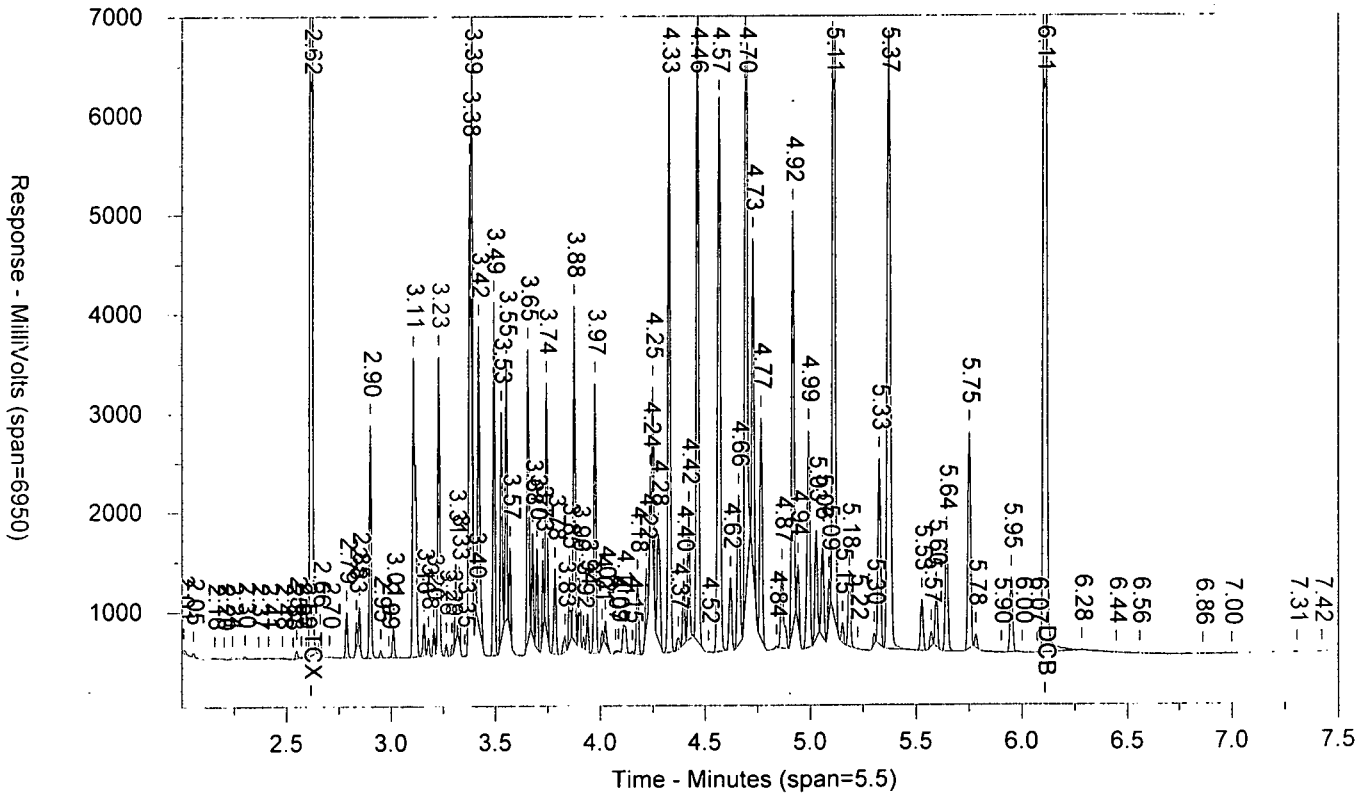

LANCASTER LABORATORIES

Sample Number: AR1631724A CRAR163CR CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:43:09 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	4873821	42.888	TCX	2.616	30152650	43.617	TCX
6.612	2672257	38.832	DCB	6.108	18621640	38.223	DCB

Files:
Area File: 20pcbs17137004.027.RAW
Area File: 20pcbs17137004B.027.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 6:51:51 PM
File Reported On: 5/21/2017 at 6:52:00 PM

AR1631724A CRAR163CR CCAL 1714099999 10736 SW-846 8082

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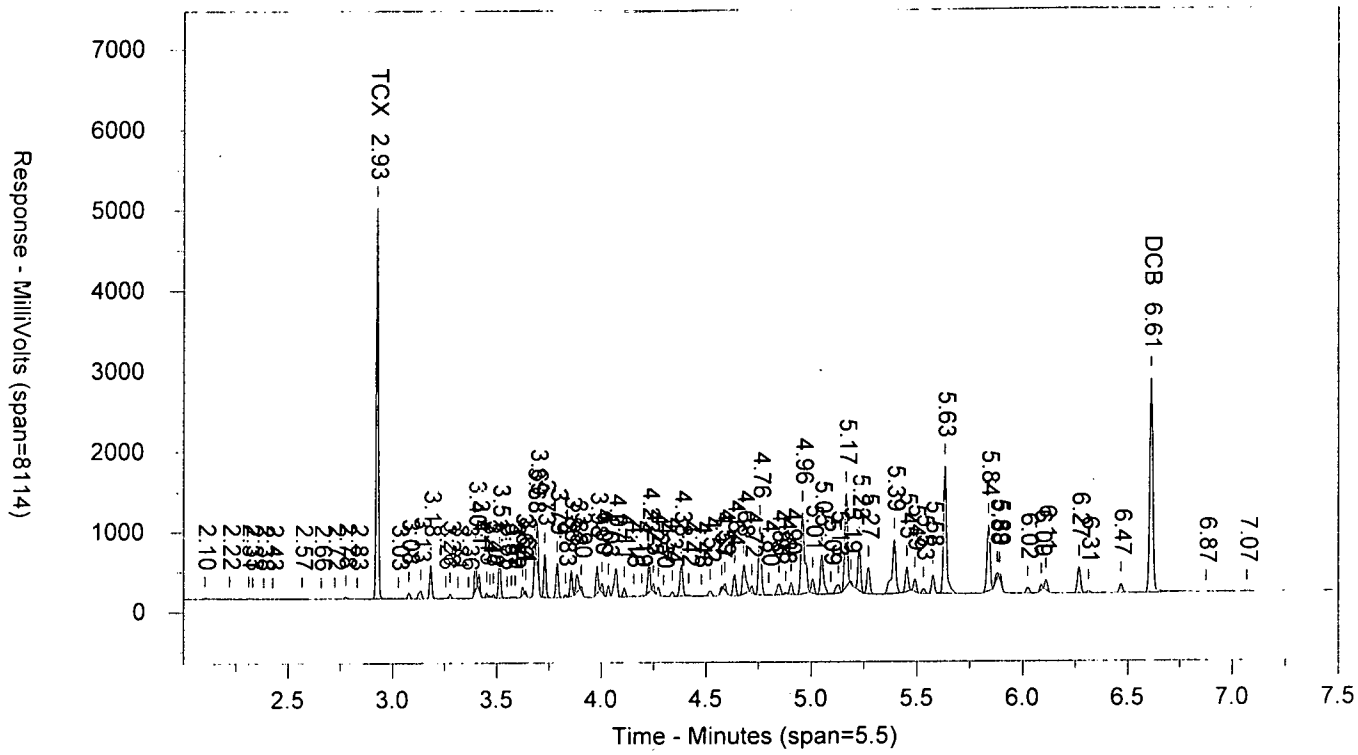

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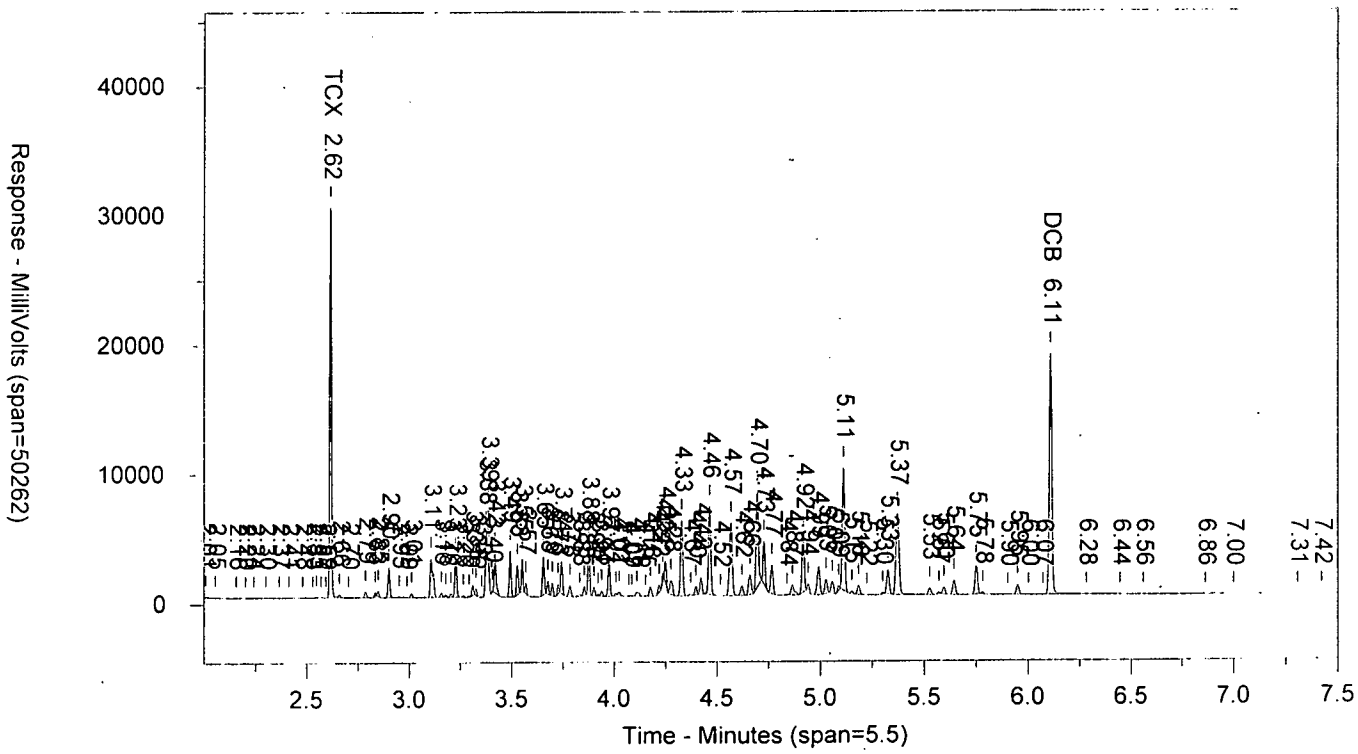

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VLPIBLKVL PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:54:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.028.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.103		13798	29632
2.219		8406	7128
2.311		12447	7774
2.33		2607	1295
2.381		1651	1712
2.427		3004	2839
2.551		1603	3022
2.659		1268	759
2.776		34046	28568
2.831		3674	4082
2.925	TCX	2292123	1523206
3.074		936	593
3.125		31480	19851
3.193		3789	3269
3.256		5071	4169
3.364		2090	1487
3.396		1286	1579
3.462		782	903
3.533		2680	2661
3.569		8288	5122
3.668		6766	5866
3.85		2226	2422
4.005		558	1208
4.06		888	895
4.116		732	621
4.171		1410	1537
4.192		4233	2968
4.261		4125	5106
4.299		5513	6802
4.394		677	813
4.51		2608	3438
4.574		1322	1291
4.88		10905	12270
4.926		1031	1534
5.04		1668	1359
5.12		18497	17658
5.205		2552	3030
5.378		864	1269
5.454		864	1511
5.532		17157	17335
5.654		30223	29957
5.841		2101	2542
6.025		29668	30711
6.09		32442	28262
6.111		5104	3160
6.468		17552	18192
6.615	DCB	1322270	1391186
7.067		1631	3069
7.567		823	1278
8.098		783	433
8.205		788	544
8.591		963	688

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VLPIBLKVL PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:54:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.028.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.008		20819	18249
2.054		19494	13836
2.157		6455	9266
2.243		21217	53741
2.37		2588	3179
2.413		4579	5037
2.456		2744	1706
2.484		8793	10608
2.547		100886	78736
2.593		3389	1688
2.616	TCX	13910760	8334079
2.778		7355	4065
2.814		1438	1706
2.833		191693	120420
2.882		10795	8385
2.909		3597	4134
2.949		36394	21254
2.987		14879	14546
3.088		2440	1271
3.173		10202	11856
3.269		4408	3318
3.291		64087	35476
3.326		58649	36838
3.353		2547	1526
3.376		4609	5687
3.409		10867	7616
3.452		6502	11153
3.555		3941	5619
3.584		5323	2461
3.712		25404	21366
3.823		20560	18738
3.881		4040	4957
3.936		11966	9941
3.983		4056	8511
4.022		5990	7908
4.072		30849	27317
4.109		4272	2543
4.131		2404	1287
4.152		11819	13253
4.197		9042	10855
4.234		3779	3212
4.332		4316	3378
4.371		3724	3842
4.44		68096	59497
4.535		2936	6234
4.567		6869	10623
4.623		6714	4424
4.643		6802	4388
4.669		113229	89747
4.741		5114	11205
4.842		7743	18744
4.917		6020	4856
4.942		3093	2568
4.983		10658	10087

RT B	Compound B	Height B	Area B
5.063		96254	100038
5.125		2299	3838
5.184		196793	168044
5.305		2091	1044
5.325		3639	4160
5.371		3691	4051
5.475		2778	2533
5.527		214232	184645
5.595		253533	224566
5.645		78621	66463
5.902		2780	2452
5.95		118572	99976
6.065		2206	1605
6.109	DCB	9345833	8086528
6.276		1953	5977
6.559		7515	6259
7.128		2390	2555
7.36		7337	15350
7.841		2775	3564
8.215		19904	37814

IBLKX1724A VLPIBLKVL PIBLK1714099999 10736 SW-846 8082

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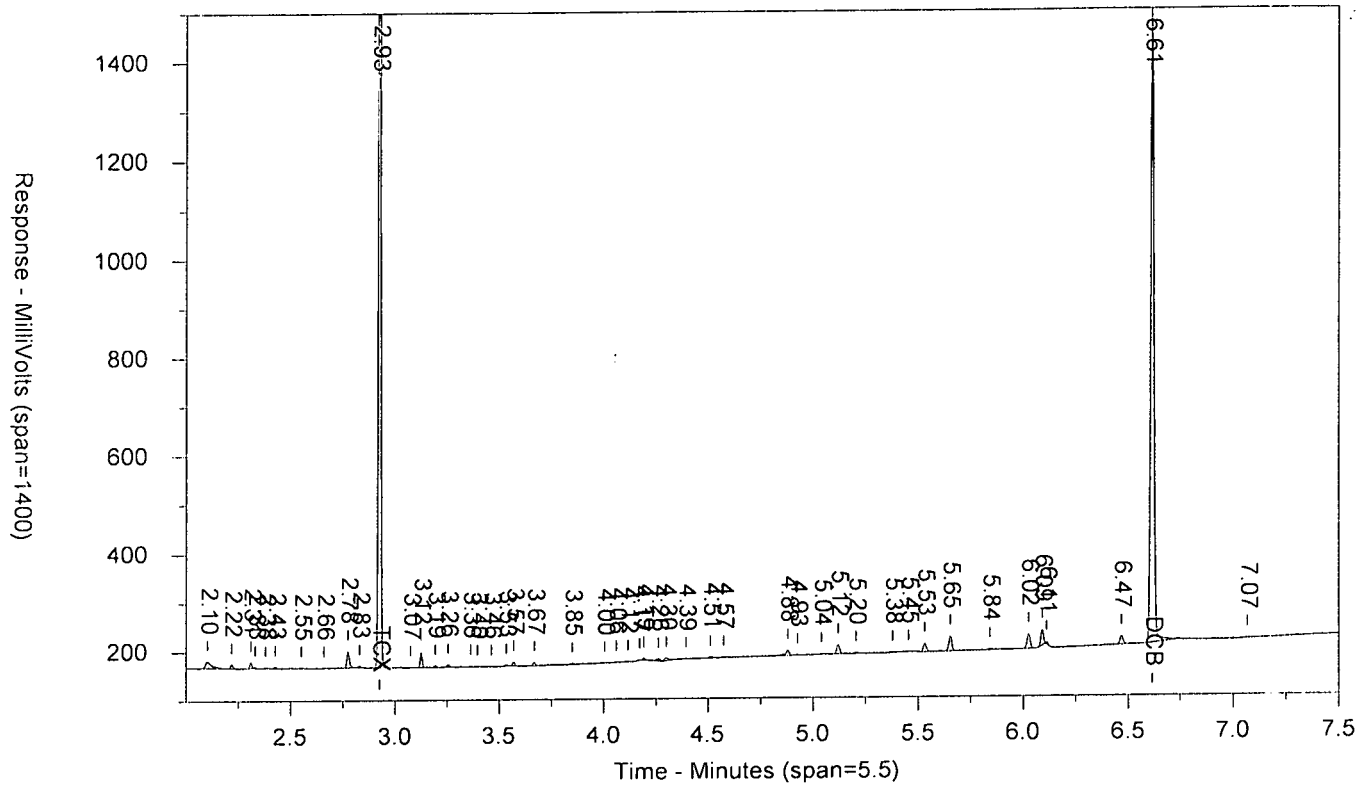

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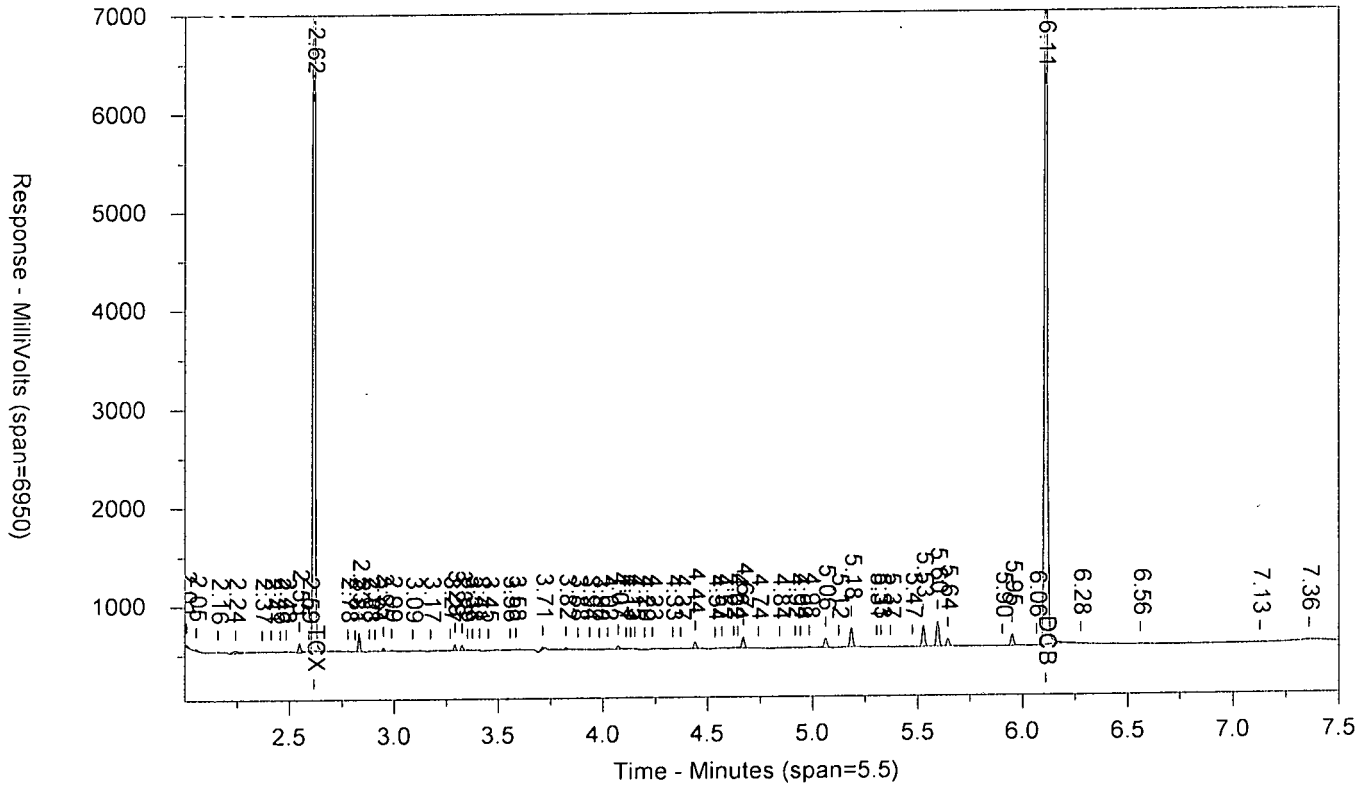

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VLPIBLKVL PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 6:54:37 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	2292123	.202	TCX	2.616	13910760	.201	TCX
6.615	1322270	.192	DCB	6.109	9345833	.192	DCB

Files:
Area File: 20pcbs17137004.028.RAW
Area File: 20pcbs17137004B.028.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 7:03:21 PM
File Reported On: 5/21/2017 at 7:03:30 PM

IBLKX1724A VLPIBLKVL PIBLK1714099999 10736 SW-846 8082

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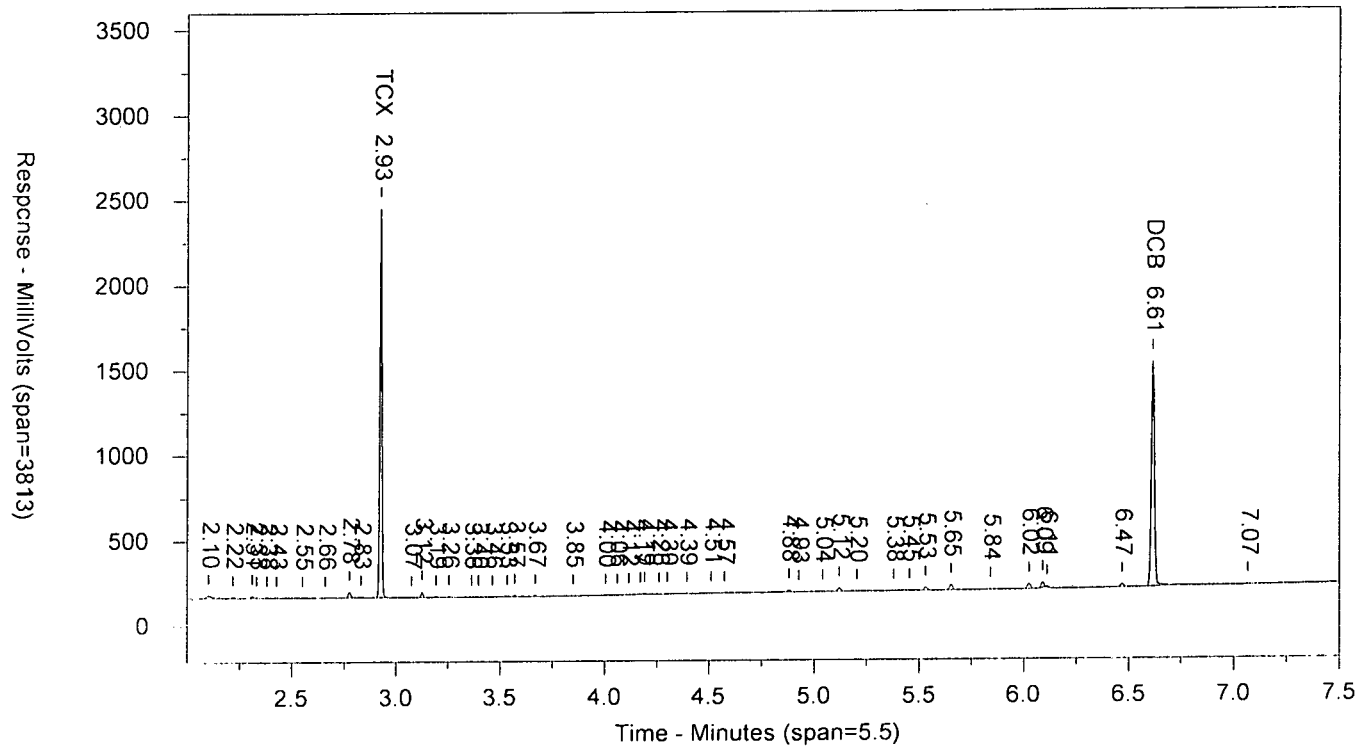

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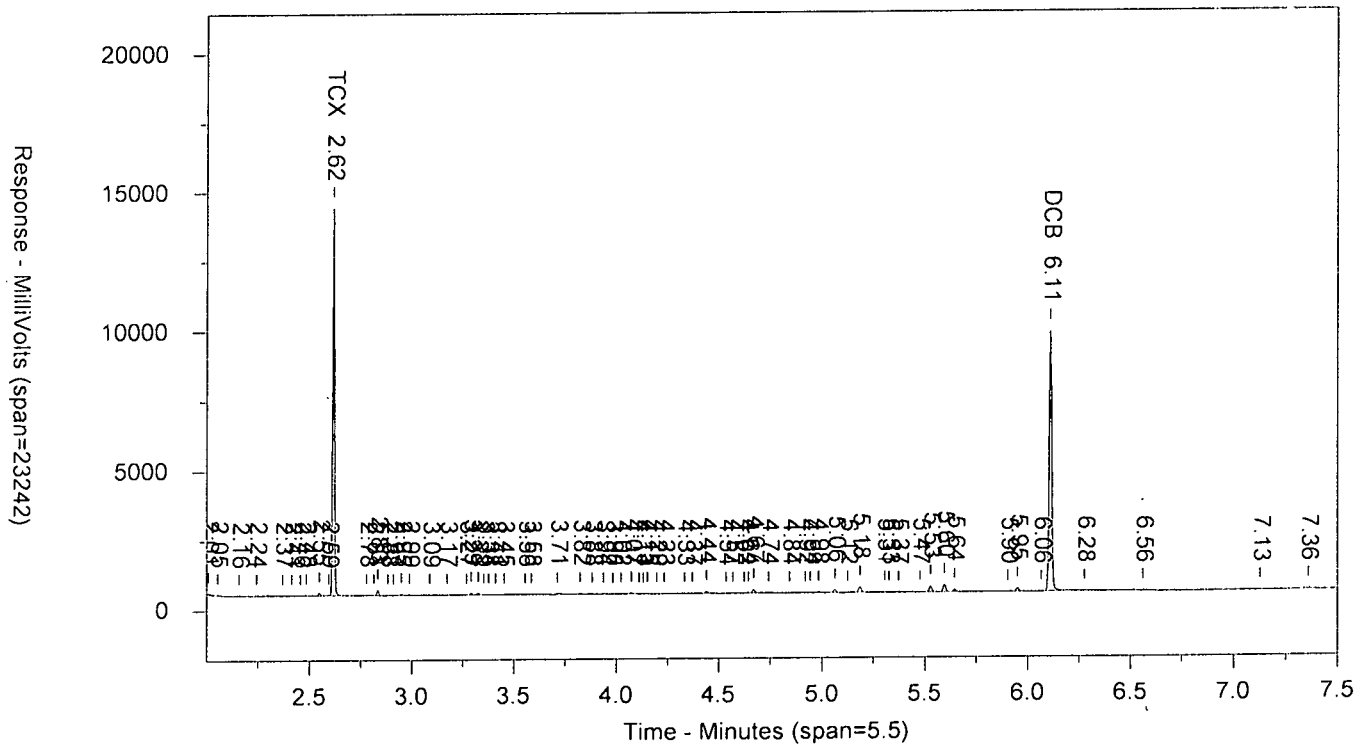

LANCASTER LABORATORIES

Sample Number: AR1631724A CSAR163CS CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 10:54:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.049.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		13748	28406
2.219		16365	12573
2.311		17315	10752
2.329		4590	2581
2.38		2087	2489
2.425		2666	1931
2.505		1252	811
2.552		1634	1049
2.567		4108	2671
2.66		1305	1117
2.721		862	545
2.776		25527	21326
2.832		2463	2903
2.925	TCX	4782511	3159024
3.014		631	365
3.078		73767	60561
3.135		99471	103880
3.183		436462	300823
3.255		9097	5045
3.277		56418	37041
3.315		1362	961
3.398		439015	263374
3.414		200442	106191
3.452		52171	29781
3.467		14193	5700
3.484		40452	23227
3.514		492591	364111
3.549		2111	1129
3.569		14911	9157
3.588		15935	9451
3.624		103979	58647
3.638		46727	22400
3.683		185077	107469
3.694		472386	245269
3.73		548140	405579
3.789		429446	339821
3.829		35394	24836
3.856		315817	231352
3.884		224313	187847
3.905		63046	34233
3.98		352934	253402
4.004		114245	77389
4.035		133258	97374
4.071		351700	359965
4.111		113471	91551
4.156		15774	11904
4.195		19040	16190
4.229		379368	280699
4.249		87428	50727
4.274		101129	70506
4.299		2765	1709
4.341		60733	51911
4.383		401699	374131
4.417		11351	7554

RT A	Compound A	Height A	Area A
4.48		5665	4568
4.52		61140	61980
4.577		28924	24306
4.59		78859	53028
4.636		262847	234457
4.682		367133	409283
4.72		84459	62113
4.758		860638	793059
4.8		9387	9272
4.849		137513	155366
4.88		18476	12951
4.906		149693	134744
4.958		988709	1265615
5.008		174891	163463
5.051		474702	515663
5.093		8677	4873
5.128		106685	134202
5.167		1260523	1308729
5.23		517660	489414
5.272		350633	332551
5.394		666777	886265
5.452		310935	284391
5.492		164565	143876
5.532		56245	54401
5.577		215324	216531
5.633		1514040	1571691
5.72		1597	1453
5.751		2225	1693
5.839		840324	858521
5.879		63994	83748
5.891		65628	49382
6.024		65963	62997
6.089		54093	41456
6.111		131356	110763
6.19		2100	4787
6.267		328281	332523
6.312		22950	23323
6.467		111059	111637
6.508		1448	1386
6.612	DCB	2754969	2807156
7.069		1917	1686
7.154		756	1513
7.724		907	803
8.681		3917	4952

LANCASTER LABORATORIES

Sample Number: AR1631724A CSAR163CS CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 10:54:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.049.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		13692	9884
2.054		41263	27514
2.116		3224	4823
2.156		8044	7412
2.203		9333	4794
2.24		17114	20968
2.268		2464	2304
2.3		24969	17228
2.368		4373	4080
2.411		13679	15435
2.478		5882	4082
2.529		7063	5441
2.547		76072	48880
2.57		5178	3029
2.592		5727	2598
2.616	TCX	28919240	17065740
2.659		186899	130706
2.704		6750	6544
2.786		450739	299953
2.833		250183	116705
2.847		398954	199069
2.899		2359077	1435624
2.949		73383	45641
3.01		312571	207695
3.106		2953294	2874597
3.157		340361	214906
3.178		180342	102946
3.203		270462	147733
3.227		2929659	1947229
3.264		130430	76050
3.292		105783	50427
3.31		786620	397926
3.325		562617	286133
3.353		8063	3766
3.375		1898635	821490
3.385		3618573	1509910
3.405		121714	47272
3.418		3036791	1943438
3.493		3485696	2126538
3.527		2280204	1420000
3.551		2553058	1396065
3.569		808546	404767
3.654		2889458	1886464
3.677		1098058	578824
3.698		953895	564216
3.727		685220	346654
3.744		2426771	1423649
3.785		841837	620886
3.832		157782	130494
3.854		623692	376636
3.876		3237400	2101390
3.901		696283	406940
3.921		113981	55303
3.94		382573	235532

RT B	Compound B	Height B	Area B
3.975		2644617	1814193
4.009		132176	80573
4.025		225780	141628
4.073		14386	9292
4.084		15138	8523
4.111		59829	38961
4.119		100240	47175
4.152		20131	10958
4.176		699932	478047
4.219		590420	355776
4.237		648220	336261
4.251		1713976	906796
4.276		1029562	1052413
4.328		5801779	4302443
4.374		93892	92721
4.398		620274	411115
4.422		1233719	902234
4.465		6627647	5036244
4.568		5698652	5155037
4.621		702508	595408
4.66		1479399	1318699
4.696		6795754	5660759
4.728		3071100	2126475
4.767		2256232	1764734
4.84		25140	19086
4.866		782018	792669
4.918		4191634	3224416
4.941		602563	383600
4.992		2136715	1934139
5.028		1102749	866844
5.057		830122	727474
5.089		341453	206015
5.111		8983042	7676194
5.153		207053	155536
5.186		575789	498180
5.304		111484	67711
5.326		1797940	1517122
5.372		5238505	6138094
5.474		6320	7380
5.527		418150	372076
5.572		149161	109536
5.596		456483	346614
5.644		1124128	962984
5.75		2183969	1842038
5.782		126607	91554
5.95		701034	628460
6.069		2584	2015
6.109	DCB	17761130	15568230
6.283		3412	3906
6.558		13128	11391
7.242		1419	1162
7.302		2849	6474
7.468		2641	11115
7.78		2334	3256
7.905		1701	1599
8.214		18274	31310
8.59		2110	1107

AR1631724A CSAR163CS CCAL 1714099999 10736 SW-846 8082

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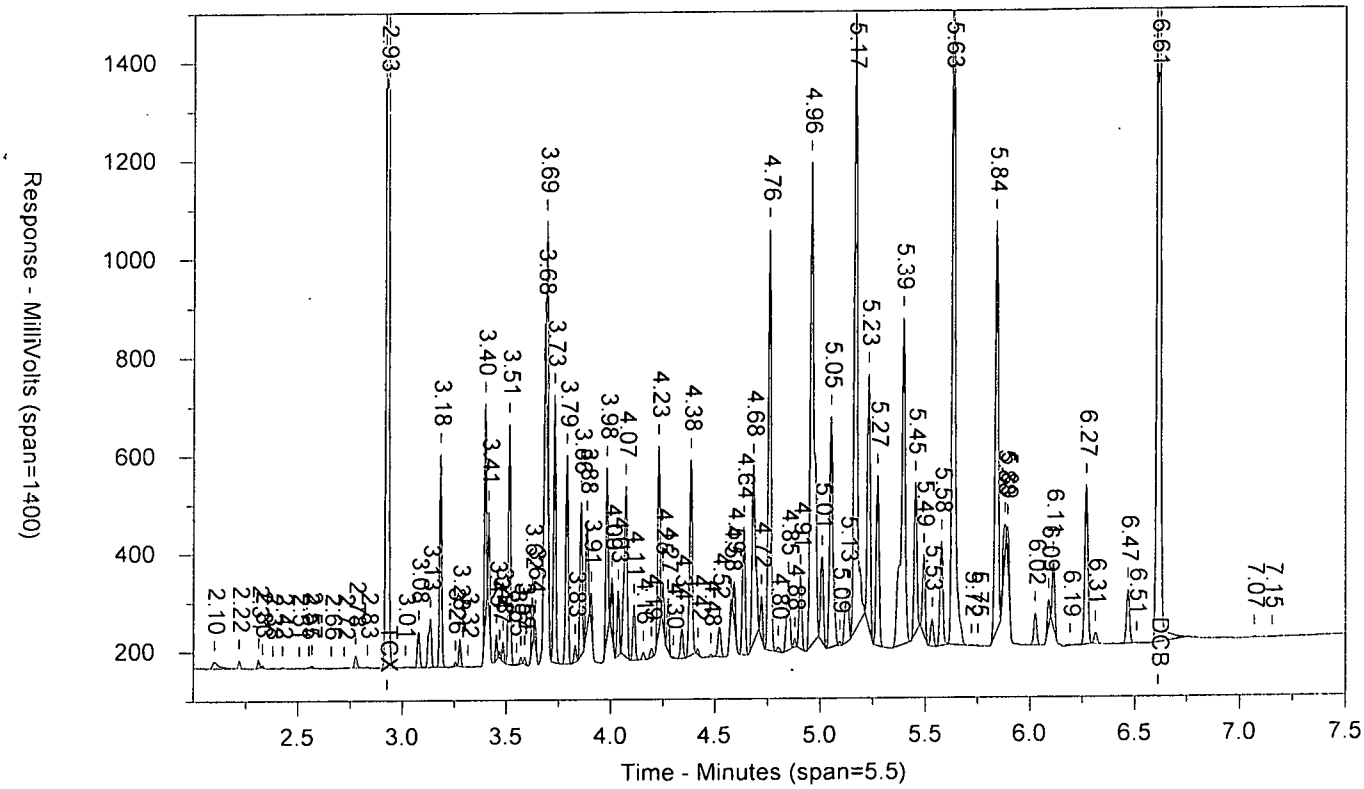

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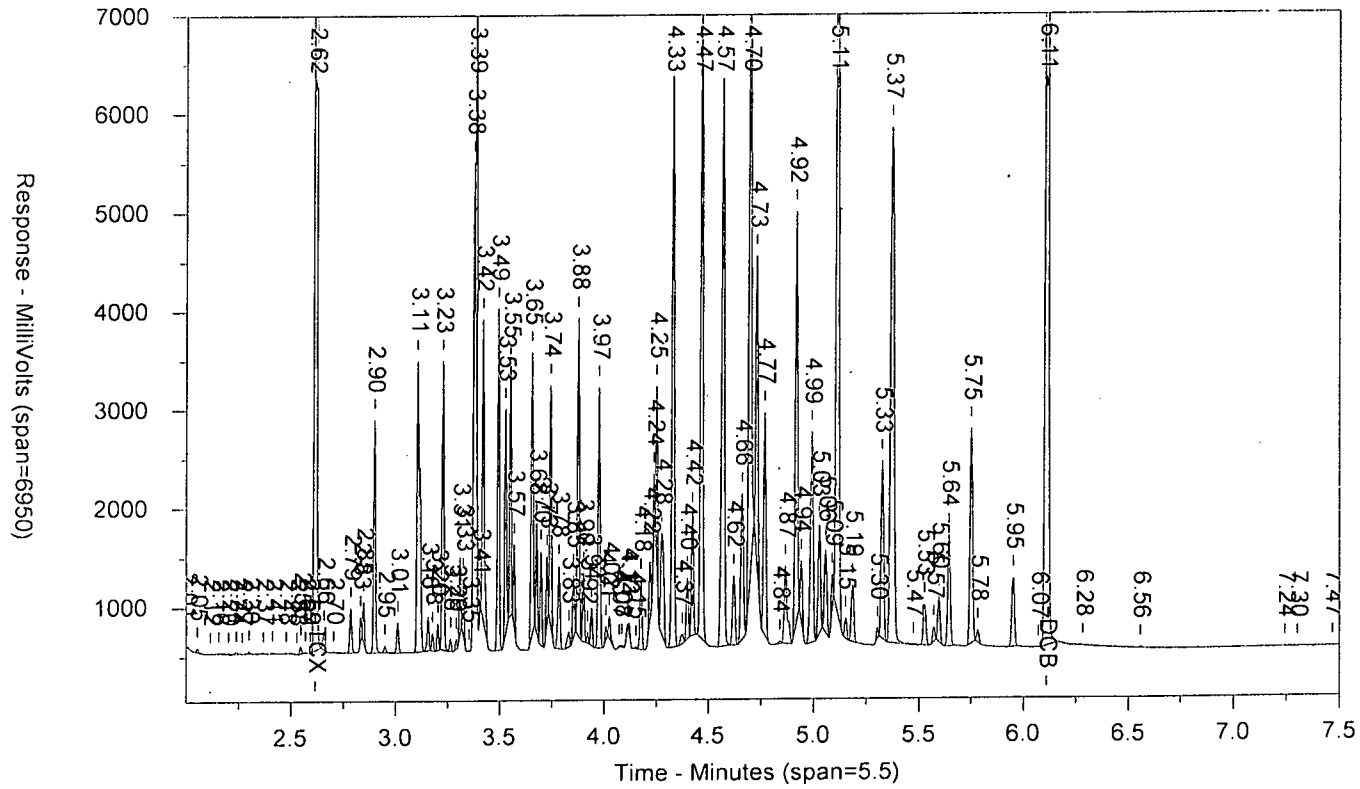

LANCASTER LABORATORIES

Sample Number: AR1631724A CSAR163CS CCAL 1714099999 10736 SW-846 8082
Injected On: 5/21/2017 10:54:37 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	4782511	42.085	TCX	2.616	28919240	41.833	TCX
6.612	2754969	40.034	DCB	6.109	17761130	36.457	DCB

Files:
Area File: 20pcbs17137004.049.RAW
Area File: 20pcbs17137004B.049.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 11:03:20 PM
File Reported On: 5/21/2017 at 11:03:29 PM

AR1631724A CSAR163CS CCAL 1714099999 10736 SW-846 8082

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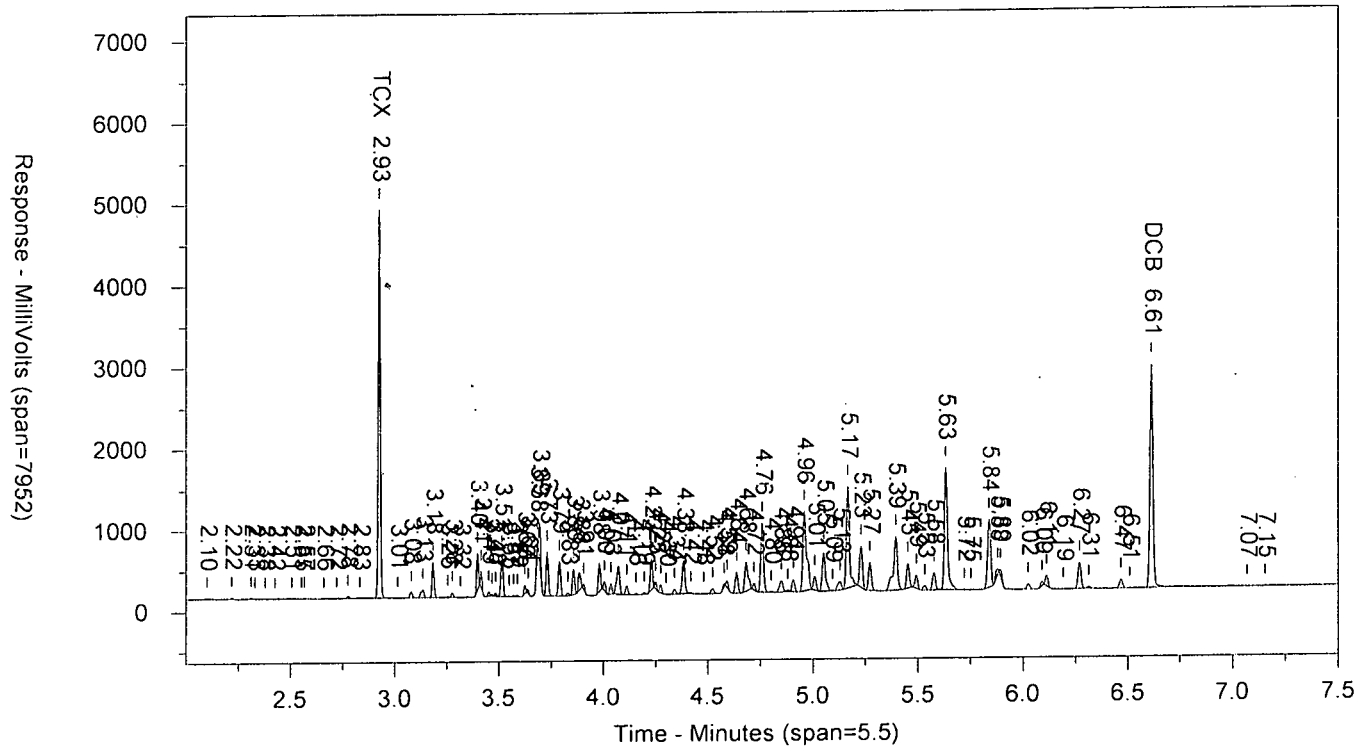

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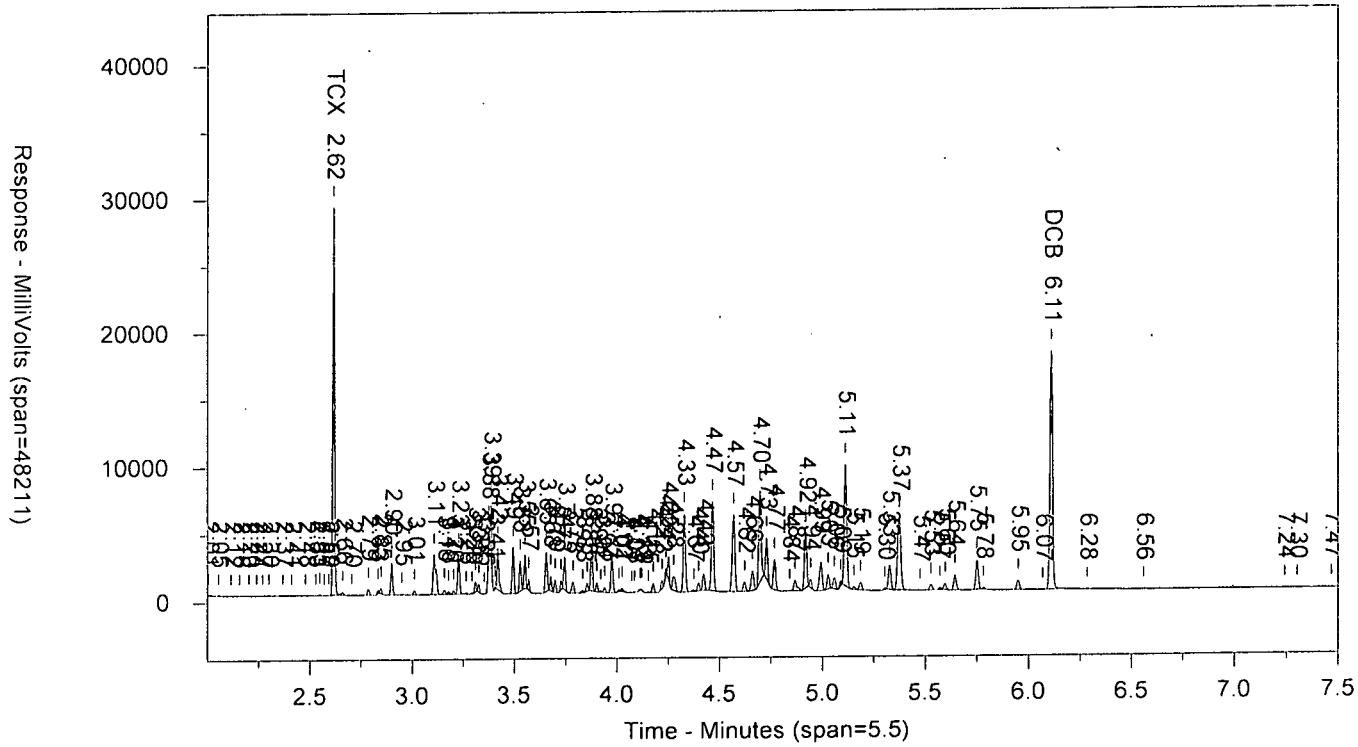

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VMPIBLKVM PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 11:05:55 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.050.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		9029	13508
2.219		8325	6592
2.311		15126	9584
2.329		2468	1186
2.381		2263	2212
2.426		2143	1889
2.503		1247	1807
2.553		1494	1199
2.657		1258	1284
2.775		16357	13588
2.831		2339	2769
2.925	TCX	2290534	1539980
3.124		31618	20030
3.192		2691	2469
3.254		5328	3465
3.396		1021	1265
3.493		805	491
3.53		1388	1081
3.568		8744	5557
3.666		7760	6035
3.749		1122	2218
3.848		1376	1287
4.066		738	970
4.173		912	935
4.193		1270	1276
4.296		4696	4653
4.512		1817	2604
4.574		1224	874
4.879		8185	8383
5.043		2730	2514
5.119		13585	13699
5.207		1671	1889
5.386		1077	3262
5.529		13784	13508
5.652		25152	24122
5.753		462	974
5.839		1752	1965
5.93		476	471
6.023		27114	28213
6.088		28296	24835
6.108		5275	3151
6.332		801	689
6.465		16590	17113
6.61	DCB	1374702	1438165
7.061		1112	992
7.162		544	275
7.352		439	720
7.764		773	773
8.104		562	252

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VMPIBLKVM PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 11:05:55 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.050.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		9743	9110
2.055		21063	15462
2.157		9150	7038
2.239		18716	25311
2.341		2106	1306
2.393		2274	1016
2.412		6490	6469
2.478		6081	4497
2.53		6342	4964
2.547		53547	34393
2.616	TCX	14215970	8399547
2.704		2159	1198
2.779		7809	4421
2.8		3423	1607
2.834		193534	118286
2.882		4529	3582
2.949		37791	22767
2.986		2142	1033
3.049		1729	1221
3.088		2181	1008
3.18		7263	10037
3.267		2737	1128
3.291		63066	35164
3.325		69624	42696
3.354		3512	1876
3.376		4276	5358
3.409		11693	8861
3.449		7458	10723
3.524		2240	1260
3.555		6129	8322
3.581		2498	1480
3.712		6913	13973
3.771		4122	3582
3.828		3188	4524
3.936		10901	7469
3.981		3202	6395
4.072		30764	26170
4.107		4312	2715
4.15		10414	13304
4.202		8049	11076
4.232		7383	8522
4.332		5781	5199
4.368		2814	2404
4.439		54122	55395
4.524		3510	5127
4.565		6382	9152
4.618		4044	2884
4.642		14118	9666
4.667		76446	58374
4.742		4805	7617
4.819		1858	2235
4.841		3782	3034
4.916		4107	3315
4.981		7624	8759

RT B	Compound B	Height B	Area B
5.024		2410	1456
5.06		74300	64220
5.113		2857	3798
5.155		3037	2173
5.183		155093	130782
5.327		3343	3888
5.371		7093	6883
5.525		189930	162978
5.594		229520	196864
5.642		66989	58100
5.948		113352	94992
5.98		3228	2161
6.107	DCB	9102927	8076020
6.255		1852	5895
6.556		6401	6806
7.138		1720	2787
7.305		1753	1460
7.416		1703	2136
7.47		2245	4583
7.652		2410	10339
7.721		1609	1972
7.828		2750	5079
8.045		1748	3017
8.212		17616	30156

IBLKX1724A VMPIBLKVM PIBLK1714099999 10736 SW-846 8082

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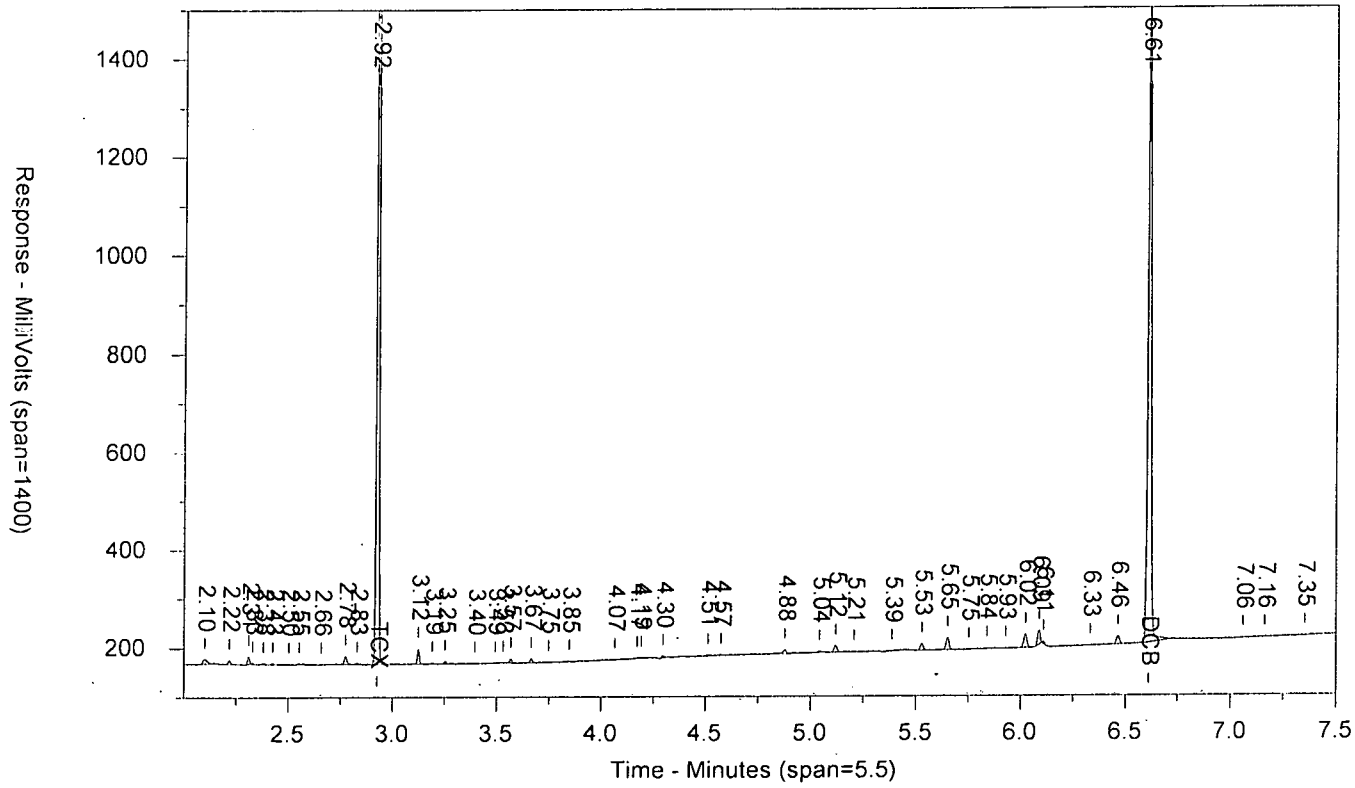

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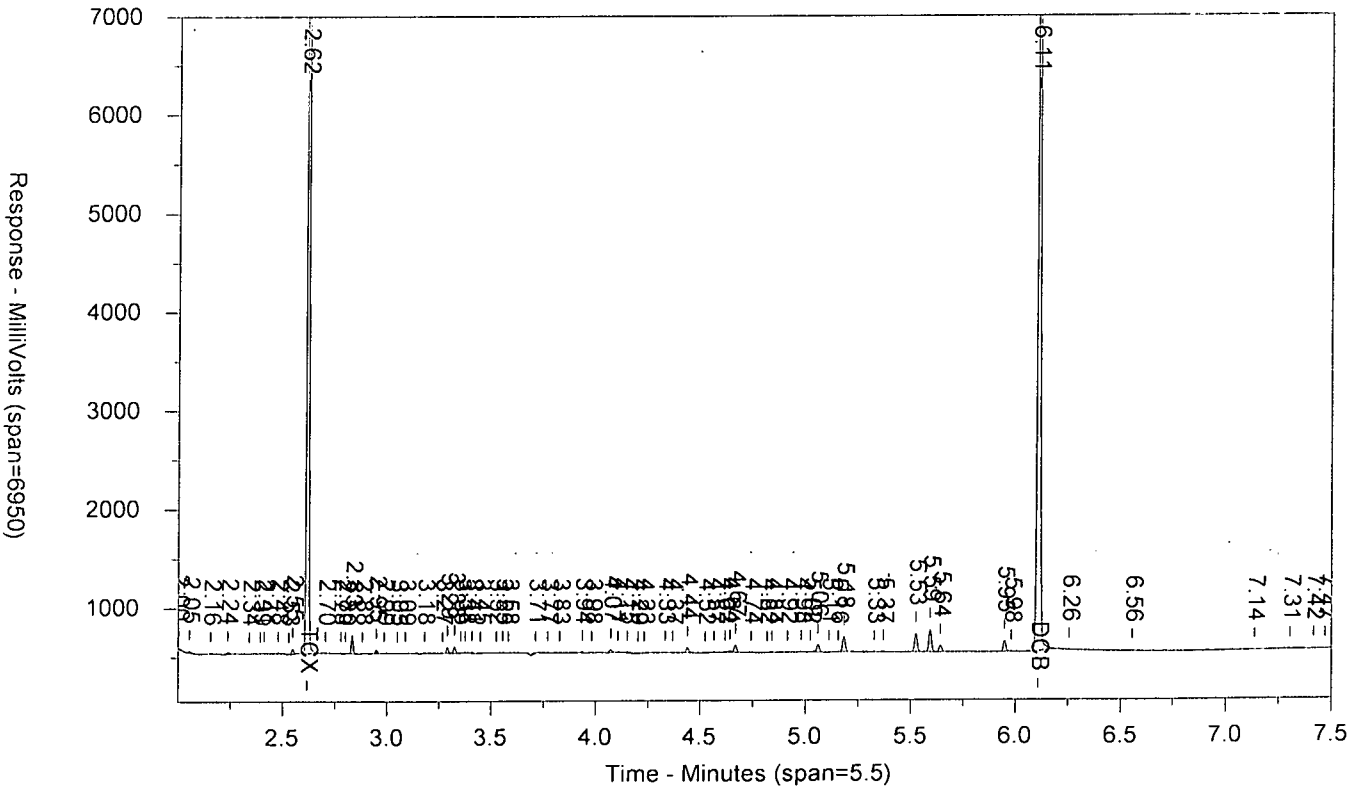

LANCASTER LABORATORIES

Sample Number: IBLKX1724A VMPIBLKVM PIBLK1714099999 10736 SW-846 8082
Injected On: 5/21/2017 11:05:55 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	2290534	.202	TCX	2.616	14215970	.206	TCX
6.61	1374702	.2	DCB	6.107	9102927	.187	DCB

Files:
Area File: 20pcbs17137004.050.RAW
Area File: 20pcbs17137004B.050.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 11:14:36 PM
File Reported On: 5/21/2017 at 11:14:47 PM

IBLKX1724A VMPIBLKVM PIBLK1714099999 10736 SW-846 8082

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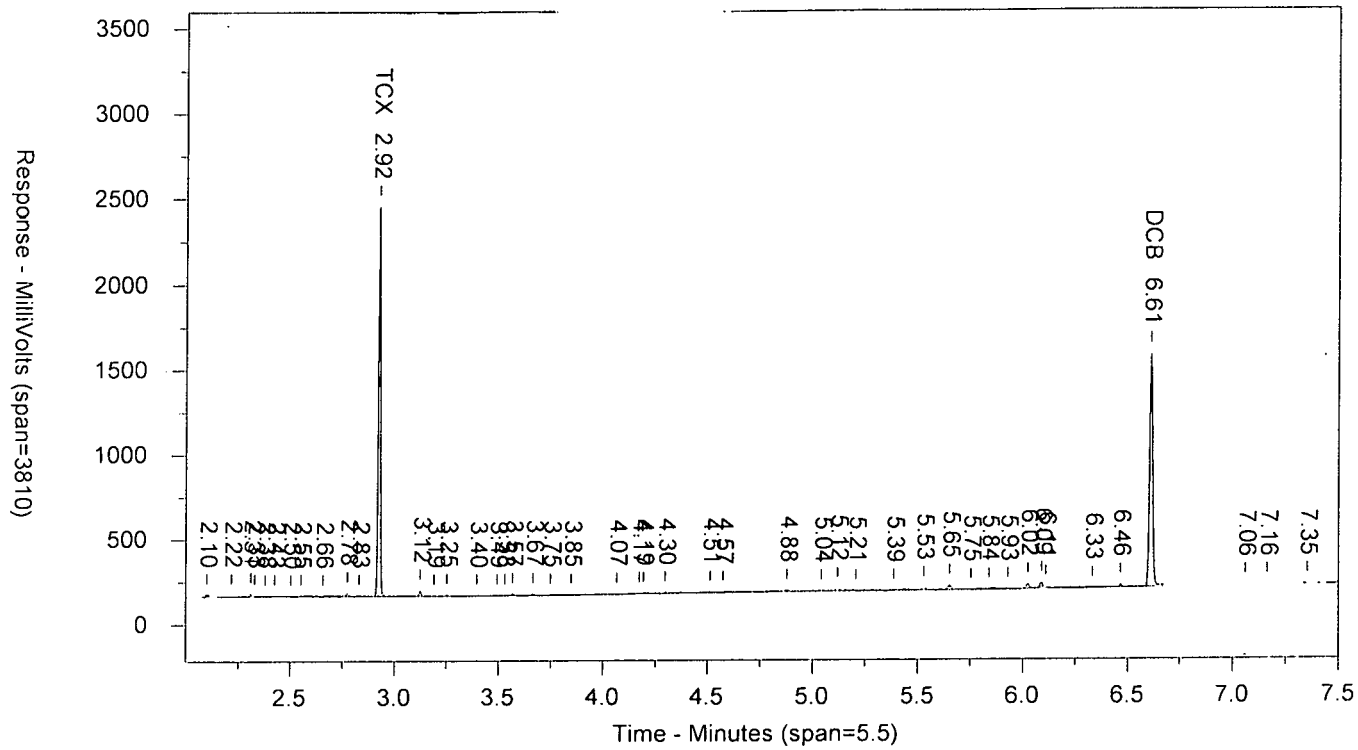

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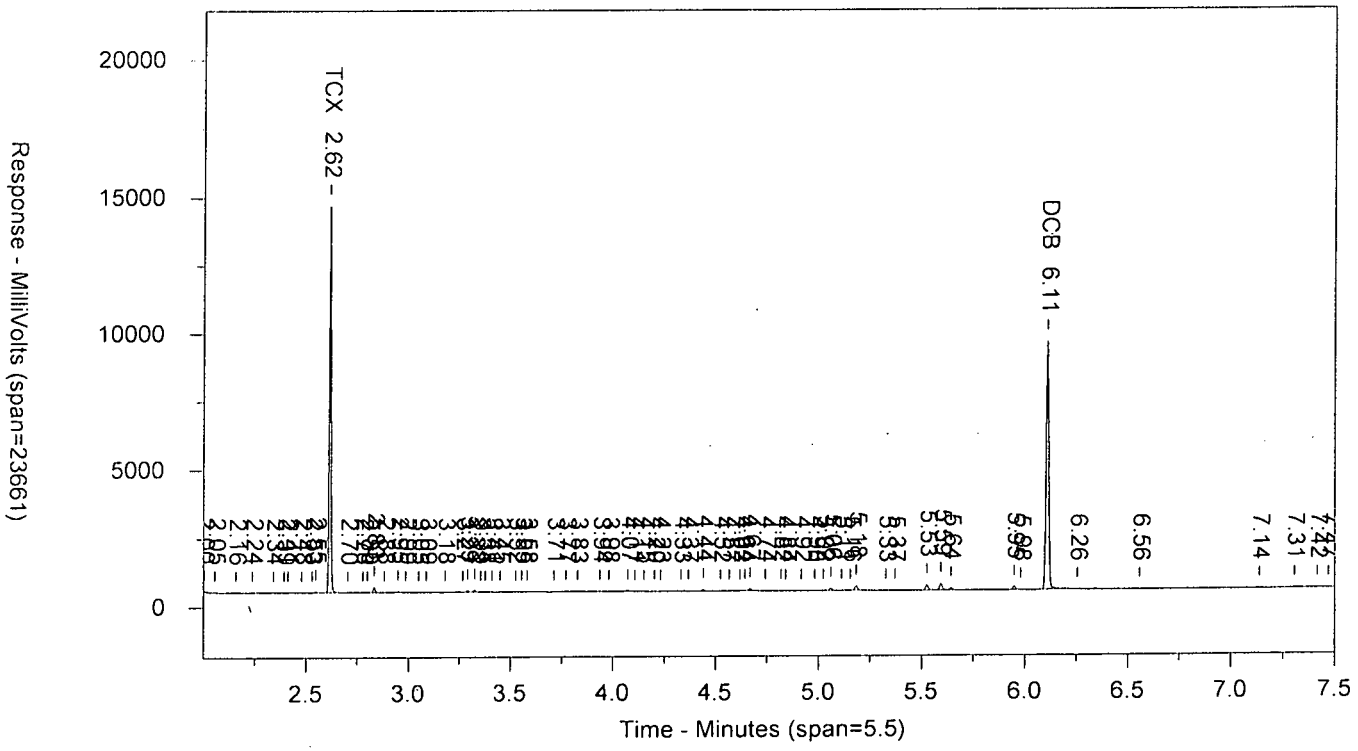

Raw QC Data

Polychlorinated Biphenyls (PCBs)

eurofins | Lancaster Laboratories Environmental

Data Summary

Sample Name: BLANKA 5/19/17 ACF PBLK28138 BLK Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 14:55:20
Instrument	17342A
Result file	20PCBS17137004.007.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 105% (61 - 152) Conc: 30.80502
%SSR(DCB) 102% (48 - 164) Conc: 29.77573

Analysis Report (B)

Injected on	May 21, 2017 14:55:20
Instrument	17342B
Result file	20PCBS17137004B.007.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 102% (61 - 152) Conc: 29.82709
%SSR(DCB) 101% (48 - 164) Conc: 29.60574

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3500698	30.80502	Tetrachloro-m-xylene	2.59	2.62	2.65	20619730	29.82709
Decachlorobiphenyl	6.58	6.61	6.64	2049058	29.77573	Decachlorobiphenyl	6.08	6.11	6.14	14423280	29.60574

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	A	30.80502				3.23	
Decachlorobiphenyl	A	29.77573				0.57	

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
PCB-1016			<51	<9.9			4	
PCB-1221			<51	<15.3			3	
PCB-1232			<51	<12.3			4	
PCB-1242			<51	<12.3			4	
PCB-1248			<51	<9.9			4	
PCB-1254			<51	<13.2			4	
PCB-1260			<51	<11.7			4	
PCB-1262			<51	<9.9			4	
PCB-1268			<51	<9.9			4	
Total PCBs			<51	<9.9				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby D. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: BLANKA 5/19/17 ACF PBLK28138Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 14:55:20
Instrument : CP20--17342A
Result file : 20PCBS17137004.007.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 105% (61-152) Conc.: 30.80502
%SSR(DCB) : 102% (48-164) Conc.: 29.77573

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**4**	**69.67**	
3.16	3.20	3.20	1135.336	0.553317			1
3.37	3.39	3.41	1026.208	0.48979			2
3.71	3.71	3.75	5779.253	2.211351			4
3.76	3.79	3.80	3043.893	1.423976			5
Height Summation:			**10984.69**				
Amount Avg CF:			**1.169608**	Linear:			
Aroclor-1221					**3**	**104.21**	
3.06	3.07	3.10	1605.956	1.633865			1
3.11	3.13	3.15	4540.267	5.343093			2
+ 3.11	3.15	3.15	1135.537	1.336327			2
3.16	3.20	3.20	1135.336	0.413578			3
Height Summation:			**7281.559**				
Amount Avg CF:			**2.463512**	Linear:			
Aroclor-1232					**5**	**90.37**	
3.16	3.20	3.20	1135.336	0.461064			1
3.38	3.39	3.42	1026.208	1.035687			2
3.49	3.53	3.53	950.6863	0.874433			3
3.71	3.71	3.75	5779.253	4.900177			4
3.77	3.79	3.81	3043.893	3.292008			5
Height Summation:			**11935.3763**				
Amount Avg CF:			**2.112674**	Linear:			
Aroclor-1242					**5**	**77.82**	
3.16	3.20	3.20	1135.336	0.645885			1
3.38	3.39	3.42	1026.208	0.591207			2
3.49	3.53	3.53	950.6863	0.500184			3
3.71	3.71	3.75	5779.253	2.70291			4
3.77	3.79	3.81	3043.893	1.818259			5
Height Summation:			**11935.3763**				
Amount Avg CF:			**1.251689**	Linear:			
Aroclor-1248					**5**	**90.57**	
3.76	3.79	3.80	3043.893	2.622746			1
3.83	3.85	3.87	921.9125	0.436798			2
4.05	4.08	4.09	662.3939	0.32057			4
4.23	4.23	4.27	6179.999	2.52475			5
4.61	4.63	4.65	1014.201	0.56522			6
Height Summation:			**11822.3994**				
Amount Avg CF:			**1.294017**	Linear:			
Aroclor-1254					**4**	**107.81**	
4.21	4.23	4.25	6179.999	2.141369			1
4.55	4.57	4.59	1631.044	0.56236			2
4.61	4.63	4.65	1014.201	0.173136			3
4.73	4.76	4.77	755.6171	0.429752			4
Height Summation:			**9580.8611**				
Amount Avg CF:			**0.826654**	Linear:			
Aroclor-1260					**5**	**68.90**	
4.73	4.76	4.77	755.6171	0.180299			1
5.03	5.05	5.07	3055.443	1.319479			2
+ 5.20	5.21	5.24	931.4388	0.343525			3
5.20	5.23	5.24	3865.484	1.425634			3
5.37	5.39	5.41	1572.721	0.508358			4
5.82	5.84	5.86	2268.863	0.538546			6
Height Summation:			**11518.1281**				
Amount Avg CF:			**0.794463**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 14:55:20
Instrument : CP20--17342B
Result file : 20PCBS17137004B.007.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 102% (61-152) Conc.: 29.82709
%SSR(DCB) : 101% (48-164) Conc.: 29.60574

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**207.18**	
2.88	2.90	2.92	3001.583	0.265448			1
+ 3.21	3.22	3.25	10615.62	0.755448			2
3.21	3.25	3.25	445469.8	31.701326			2
3.40	3.41	3.44	18834.59	1.333898			3
3.47	3.48	3.51	8125.188	0.486591			4
3.63	3.65	3.67	6411.144	0.456974			5
3.72	3.74	3.76	26193.84	2.178842			6
+ 3.72	3.76	3.76	8932.619	0.743028			6
Height Summation:			**508036.145**				
Amount Avg CF:			**6.070513**	Linear:			
Aroclor-1221					**2**	**109.41**	
2.83	2.84	2.87	5670.116	1.541355			2
2.88	2.90	2.92	3001.583	0.196692			3
Height Summation:			**8671.699**				
Amount Avg CF:			**0.869024**	Linear:			
Aroclor-1232					**6**	**182.26**	
2.88	2.90	2.92	3001.583	0.217275			1
+ 3.21	3.22	3.25	10615.62	1.589954			2
3.21	3.25	3.25	445469.8	66.720207			2
3.40	3.41	3.44	18834.59	3.153101			3
3.47	3.48	3.51	8125.188	1.107167			4
3.66	3.67	3.70	18298.29	9.130075			5
3.73	3.74	3.77	26193.84	4.985057			6
+ 3.73	3.76	3.77	8932.619	1.700003			6
Height Summation:			**519923.291**				
Amount Avg CF:			**14.218814**	Linear:			
Aroclor-1242					**6**	**199.89**	
2.88	2.90	2.92	3001.583	0.30872			1
+ 3.21	3.22	3.25	10615.62	0.914233			2
3.21	3.25	3.25	445469.8	38.364535			2
3.40	3.41	3.44	18834.59	1.649476			3
3.47	3.48	3.51	8125.188	0.622602			4
+ 3.64	3.65	3.68	6411.144	0.596664			5
3.64	3.67	3.68	18298.29	1.702962			5
3.73	3.74	3.77	26193.84	2.721564			6
+ 3.73	3.76	3.77	8932.619	0.928107			6
Height Summation:			**519923.291**				
Amount Avg CF:			**7.561643**	Linear:			
Aroclor-1248					**6**	**105.83**	
3.40	3.41	3.44	18834.59	3.382089			1
3.51	3.51	3.55	7651.751	0.487166			2
+ 3.51	3.53	3.55	4548.383	0.289583			2
3.63	3.65	3.67	6411.144	0.32671			3
3.72	3.74	3.76	26193.84	1.848628			4
+ 3.72	3.76	3.76	8932.619	0.630419			4
3.86	3.88	3.90	4533.049	0.168904			5
4.22	4.24	4.26	9569.222	0.806432			6
Height Summation:			**73193.596**				
Amount Avg CF:			**1.169988**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: BLANKA 5/19/17 ACF PBLK28138Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 14:55:20
Instrument : CP20--17342A
Result file : 20PCBS17137004.007.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					**4**	**34.42**	
+ 5.21	5.21	5.24	931.4388	0.186579			1
5.21	5.23	5.24	3865.484	0.774306			1
5.37	5.39	5.41	1572.721	0.389965			2
5.81	5.84	5.85	2268.863	0.421174			4
6.25	6.27	6.29	1522.854	0.469058			6
Height Summation:			**9229.922**				
Amount Avg CF:				**0.513626** Linear:			
Aroclor-1268					**5**	**159.35**	
5.81	5.84	5.85	2268.863	0.189405			1
6.00	6.02	6.04	33202.82	3.406853			3
6.07	6.09	6.11	33236.71	14.875349			4
6.25	6.27	6.29	1522.854	0.378299			5
6.45	6.47	6.49	24655.54	0.782648			6
Height Summation:			**94886.787**				
Amount Avg CF:				**3.926511** Linear:			

Analysis Report (B)

Injected on : May 21, 2017 14:55:20
Instrument : CP20--17342B
Result file : 20PCBS17137004B.007.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**4**	**139.50**	
4.22	4.24	4.26	9569.222	0.257972			2
4.31	4.34	4.35	33144.25	1.920773			3
4.38	4.40	4.42	4385.425	0.175868			4
4.60	4.62	4.64	2324.105	0.132851			6
Height Summation:			**49423.002**				
Amount Avg CF:				**0.621866** Linear:			
Aroclor-1260					**5**	**115.06**	
4.31	4.34	4.35	33144.25	1.173924			1
+ 4.55	4.57	4.59	3894.609	0.145386			3
4.55	4.58	4.59	5149.797	0.192242			3
4.90	4.92	4.94	5882.692	0.285687			4
5.09	5.11	5.13	7488.81	0.160258			5
5.35	5.38	5.39	3737.626	0.119565			6
Height Summation:			**55403.175**				
Amount Avg CF:				**0.386335** Linear:			
Aroclor-1262					**6**	**22.20**	
4.71	4.74	4.75	4159.952	0.128344			1
4.90	4.92	4.94	5882.692	0.182453			2
5.09	5.11	5.13	7488.81	0.122111			3
5.31	5.33	5.35	3630.97	0.142882			4
5.35	5.38	5.39	3737.626	0.091376			5
5.73	5.75	5.77	3171.098	0.14325			6
Height Summation:			**28071.148**				
Amount Avg CF:				**0.135069** Linear:			
Aroclor-1268					**6**	**187.38**	
5.31	5.33	5.35	3630.97	0.043872			1
5.35	5.38	5.39	3737.626	0.044605			2
5.51	5.53	5.55	235197.2	3.267124			3
5.57	5.59	5.61	278848.2	16.020926			4
5.73	5.75	5.77	3171.098	0.112427			5
5.93	5.95	5.97	159946.4	0.746135			6
Height Summation:			**684531.494**				
Amount Avg CF:				**3.372515** Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			51	9.9		** 135.38	4	40	
Aroclor-1221			51	15.3		** 95.69	3	5	
Aroclor-1232			51	12.3		** 148.26	4	10	
Aroclor-1242			51	12.3		** 143.19	4	30	
Aroclor-1248			51	9.9		10.07	4	40	
Aroclor-1254			51	13.2		28.28	4	40	
Aroclor-1260			51	11.7		** 69.13	4	40	
Aroclor-1262			51	9.9		** 116.71	4	40	
Aroclor-1268			51	9.9		15.18	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: BLANKA 5/19/17 ACF ABPBLK28138 BLK 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 2:55:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.007.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		1428	1488
2.104		4372	5139
2.132		492851	336786
2.161		3256	3158
2.202		7484	3995
2.219		9163	5881
2.273		846	627
2.311		125608	92014
2.39		188266	125467
2.423		2180	2078
2.468		1920	1889
2.503		1700	1555
2.57		3928	3795
2.659		1226	1027
2.685		1773	683
2.699		4325	2566
2.732		25147	24820
2.784		2509	1751
2.808		913	708
2.873		10390	7161
2.926	TCX	3500698	2244758
2.993		1219	797
3.072		1606	4075
3.108		6376	3780
3.125		4540	2564
3.152		1136	874
3.197		1135	1551
3.234		1054	717
3.256		4171	2777
3.337		962	590
3.394		1026	1351
3.469		5979	4296
3.487		2346	1332
3.531		951	659
3.554		1612	1102
3.589		58136	41312
3.658		68424	49419
3.712		5779	4768
3.758		1756	1540
3.793		3044	2129
3.851		922	1552
4.007		523	637
4.031		774	749
4.078		662	584
4.102		678	508
4.138		1983	2221
4.195		1530	1469
4.226		6180	5157
4.299		5126	5421
4.383		2018	4995
4.455		684	553
4.515		1072	1831
4.575		1631	1559
4.631		1014	994

RT A	Compound A	Height A	Area A
4.757		756	2463
4.824		3522	2988
4.881		9482	7909
4.919		1350	1719
5.009		1206	1152
5.046		3055	2892
5.121		17399	16706
5.207		931	544
5.234		3865	3648
5.276		2398	15378
5.39		1573	9460
5.432		72686	88563
5.531		15804	15497
5.652		29918	30405
5.745		1060	903
5.837		2269	2626
5.941		554	639
6.024		33203	33826
6.088		33237	29141
6.11		6344	3924
6.183		769	887
6.27		1523	2741
6.299		829	511
6.392		997	1382
6.467		24656	24589
6.611	DCB	2049058	2124818
7.727		2324	3675
8.085		937	3683

LANCASTER LABORATORIES

Sample Number: BLANKA 5/19/17 ACF ABPBLK28138 BLK 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 2:55:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.007.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		13281	10352
2.055		34990	25198
2.097		5376	2420
2.115		1508835	882649
2.158		30024	17760
2.18		5366	2657
2.202		17059	14254
2.233		13791	12373
2.323		7001	5242
2.355		5014	2771
2.392		41549	24756
2.435		208677	128396
2.462		52374	33094
2.5		21839	13832
2.553		6819	3863
2.571		3641	2357
2.591		63729	32991
2.616	TCX	20619730	12112460
2.675		12507	7068
2.705		6182	5020
2.736		54838	30066
2.764		8578	9229
2.844		5670	8146
2.903		3002	4066
2.923		5141	2398
2.949		18963	11216
2.972		9395	5798
2.993		7465	5908
3.021		3048	2780
3.055		6259	3820
3.071		3310	1503
3.105		3805	2603
3.147		55975	35257
3.183		34954	35662
3.206		9341	3691
3.222		10616	5432
3.245		445470	266415
3.28		3056	1398
3.32		532971	336263
3.355		7366	3940
3.364		24413	10281
3.406		18835	14307
3.457		8184	10482
3.479		8125	6414
3.515		7652	4471
3.535		4548	2265
3.594		19504	20489
3.647		6411	7082
3.675		18298	17284
3.735		26194	55080
3.759		8933	7500
3.802		1912	835
3.827		55826	37912
3.875		4533	6036

RT B	Compound B	Height B	Area B
3.938		16728	12539
3.974		2442	1493
3.991		1984	1042
4.006		7042	4908
4.074		30451	25692
4.114		6337	6420
4.152		14807	22406
4.207		7511	15855
4.236		9569	13385
4.336		33144	30599
4.4		4385	2586
4.44		60644	47331
4.525		8083	10297
4.567		3895	2697
4.585		5150	4383
4.625		2324	2096
4.643		25004	24230
4.671		52065	32785
4.707		29449	29123
4.74		4160	3222
4.765		3418	4112
4.84		366407	376298
4.917		5883	4604
4.942		3798	2278
4.984		7535	8103
5.026		2553	1827
5.062		94976	83342
5.112		7489	7129
5.184		193135	166184
5.327		3631	2517
5.379		3738	2336
5.527		235197	202347
5.595		278848	252667
5.644		91510	78799
5.673		4076	3423
5.748		3171	2927
5.949		159946	134509
5.978		4255	2704
6.071		1706	1473
6.107	DCB	14423280	12365270
6.786		14083	18305
7.3		1568	1387
7.453		1071	18096
7.48		1959	3173
7.84		2116	3035
8.214		18765	37176

BLANKA 5/19/17 ACF ABPBLK28138 BLK 171380028A 10225 SW-846 808

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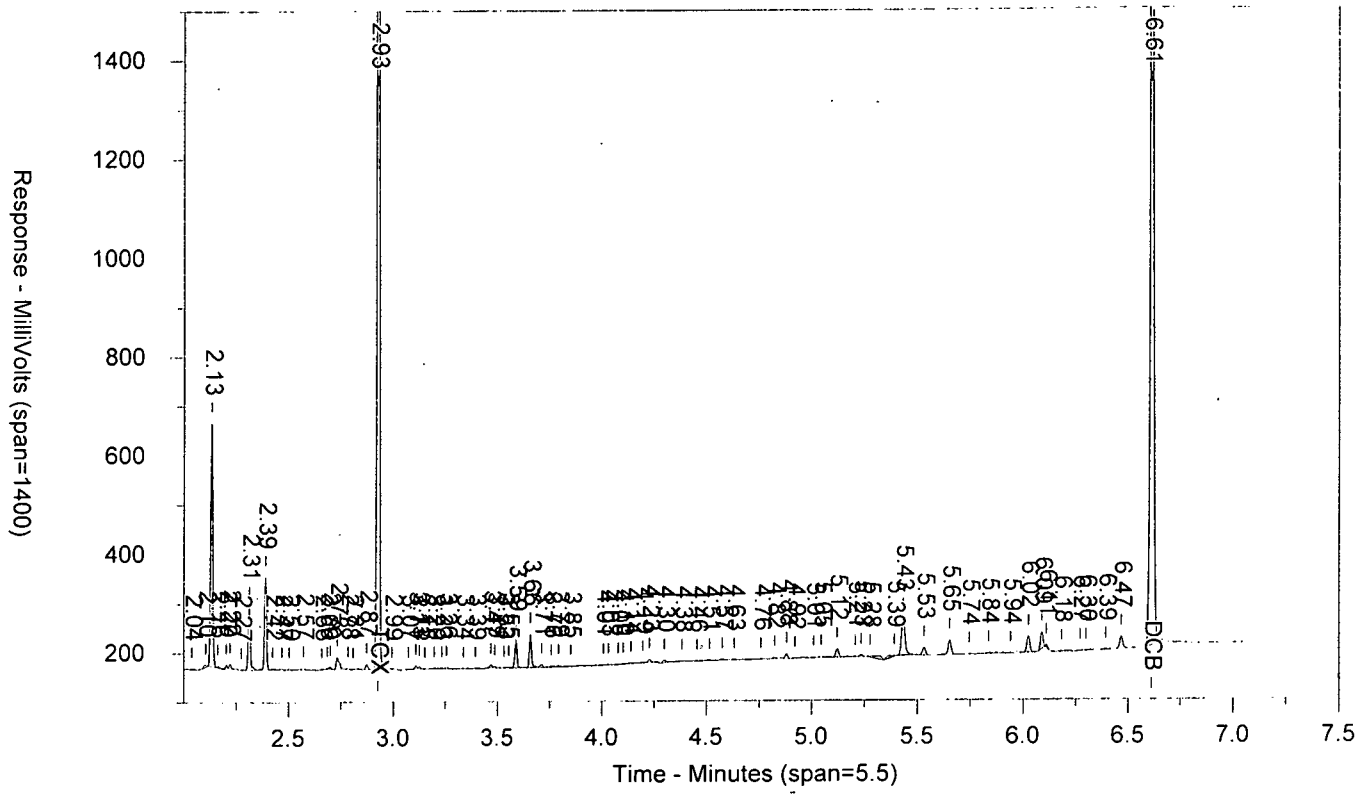

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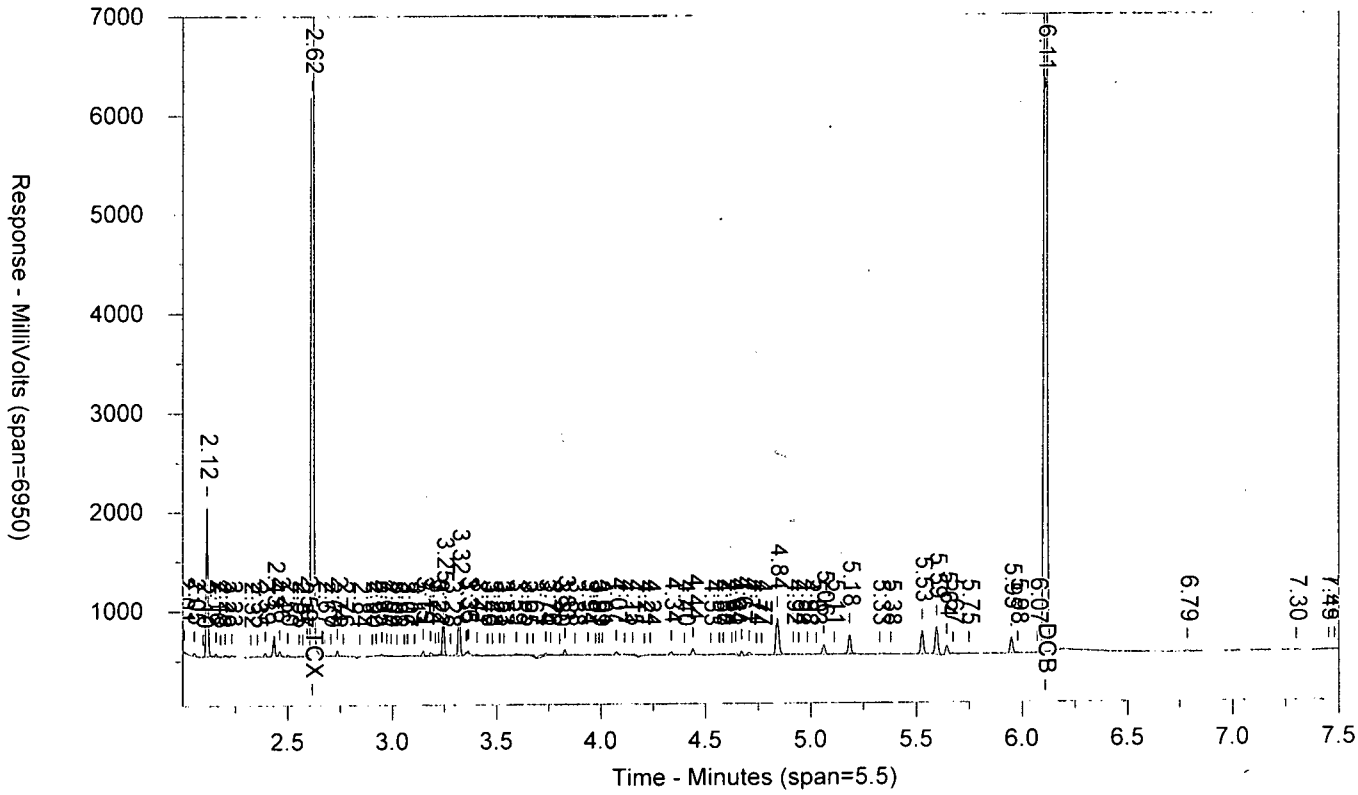

LANCASTER LABORATORIES

Sample Number: BLANKA 5/19/17 ACF ABPBLK28138 BLK 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 2:55:20 PM Sample Weight: 10
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.926	3500698	30.805	TCX	2.616	20619730	29.827	TCX
6.611	2049058	29.776	DCB	6.107	14423280	29.606	DCB

Files:
Area File: 20pcbs17137004.007.RAW
Area File: 20pcbs17137004B.007.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 3:04:03 PM
File Reported On: 5/21/2017 at 3:04:08 PM

BLANKA 5/19/17 ACF ABPBLK28138 BLK 171380028A 10225 SW-846 808

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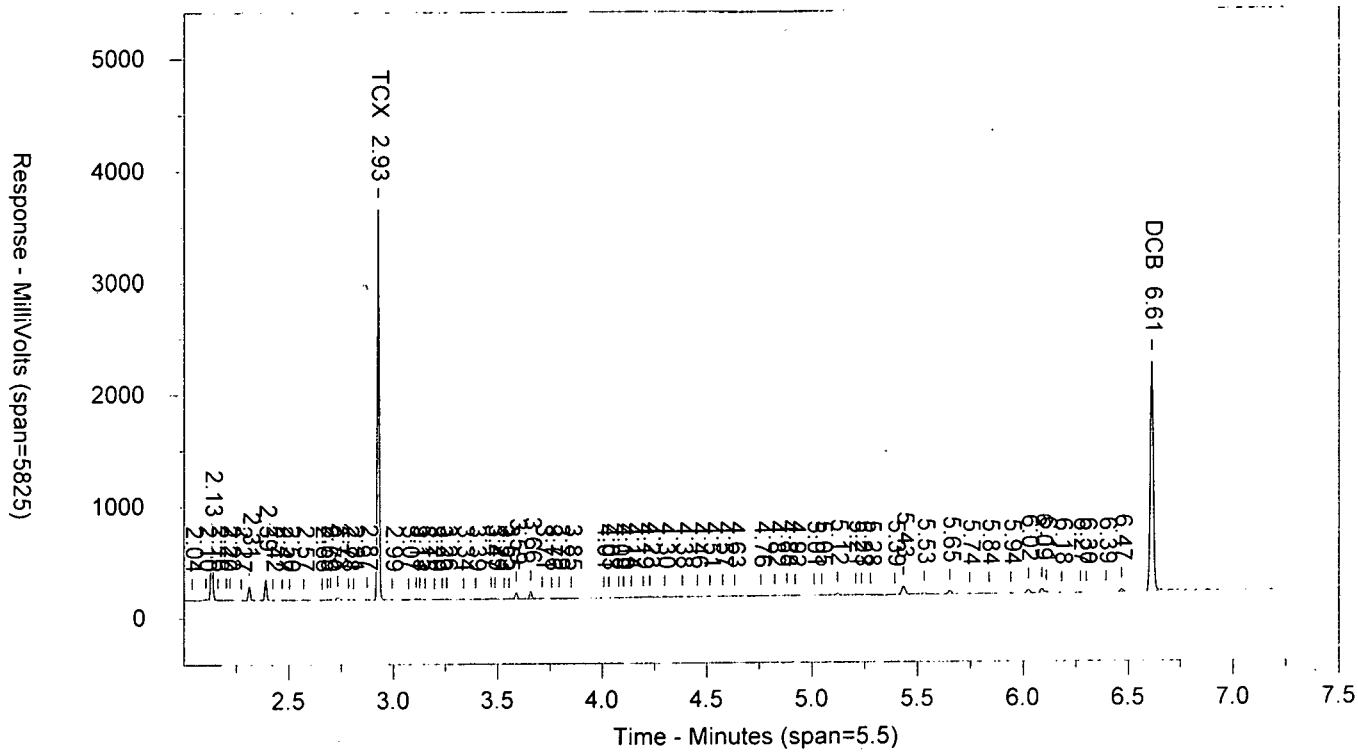

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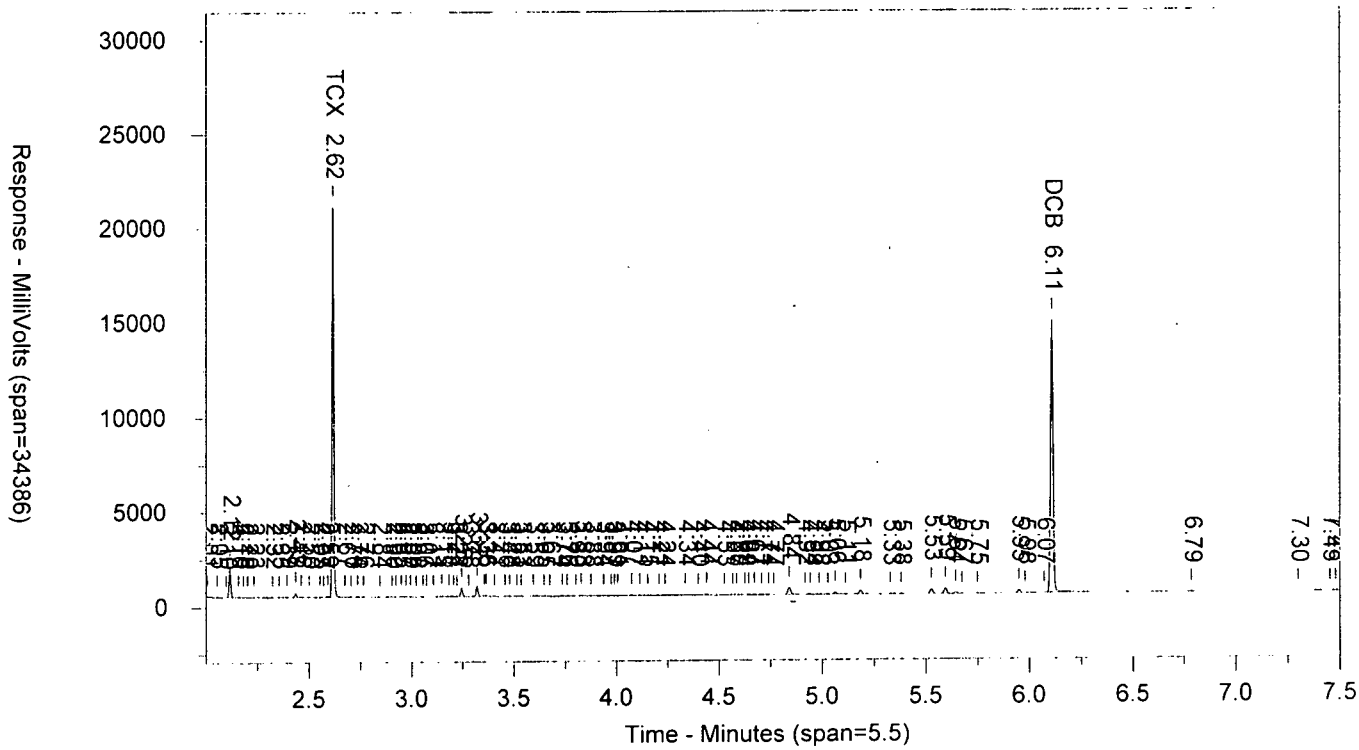

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Data Summary

Sample Name: 8998235 MSACF 42A01 MS Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.17 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:29:41
Instrument	17342A
Result file	20PCBS17137004.010.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 101% (61 - 152) Conc: 29.16641
%SSR(DCB) 106% (48 - 164) Conc: 30.63865

Analysis Report (B)

Injected on	May 21, 2017 15:29:41
Instrument	17342B
Result file	20PCBS17137004B.010.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 103% (61 - 152) Conc: 29.7557
%SSR(DCB) 91% (48 - 164) Conc: 26.19773

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3370832	29.16641
Decachlorobiphenyl	6.58	6.61	6.64	2144284	30.63865

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20920080	29.7557
Decachlorobiphenyl	6.08	6.11	6.14	12979940	26.19773

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	B	29.7557				2.00	
☐ Decachlorobiphenyl	A	30.63865				15.63	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**2.13**	
3.16	3.18	3.20	941659.6	451.255407			1
3.37	3.40	3.41	952697.3	447.10382			2
3.49	3.51	3.53	1031909	430.149167			3
3.71	3.73	3.75	1219668	458.887889			4
3.76	3.79	3.80	980105.9	450.842851			5
3.96	3.98	4.00	779496.1	447.185903			6

Height summation: **5905535.9**
Concentration CF: **447.57084** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**2.17**	
2.88	2.90	2.92	5061140	440.104784			1
3.21	3.23	3.25	6332180	443.089498			2
3.40	3.42	3.44	6644656	462.719628			3
3.47	3.49	3.51	7573301	445.958629			4
3.63	3.65	3.67	6218811	435.854861			5
3.72	3.74	3.76	5537644	452.929514			6

Height summation: **37367732**
Concentration CF: **446.776152** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**13.10**	
4.73	4.76	4.77	3271030	767.458425			1
5.03	5.05	5.07	2568404	1090.613012			2
5.20	5.23	5.24	2206135	800.04657			3
5.37	5.39	5.41	2878613	914.914241			4
5.61	5.63	5.65	7552180	990.190993			5
5.82	5.84	5.86	3903054	910.958029			6

Height summation: **22379416**
Concentration CF: **912.363545** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**7.98**	
4.31	4.33	4.35	22274610	775.748356			1
4.44	4.46	4.48	28412760	839.099024			2
4.55	4.57	4.59	20562140	754.754551			3
4.90	4.92	4.94	16021010	765.038626			4
5.09	5.11	5.13	44052400	926.945509			5
5.35	5.37	5.39	26578530	836.021694			6

Height summation: **157901450**
Concentration CF: **816.26796** L:

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Data Summary

Sample Name: 8998235 MSACF 42A01 MS Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.17 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:29:41
Instrument	17342A
Result file	20PCBS17137004.010.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

Analysis Report (B)

Injected on	May 21, 2017 15:29:41
Instrument	17342B
Result file	20PCBS17137004B.010.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
PCB-1016	A	447.57084	50.1475	9.7345		0.18	4	
PCB-1221			<50.1475	<15.0442			3	
PCB-1232			<50.1475	<12.0944			4	
PCB-1242			<50.1475	<12.0944			4	
PCB-1248			<50.1475	<9.7345			4	
PCB-1254			<50.1475	<12.9794			4	
PCB-1260	A	912.363545	50.1475	11.5044		11.12	4	
PCB-1262			<50.1475	<9.7345			4	
PCB-1268			<50.1475	<9.7345			4	
Total PCBs	A	1359.934385	50.1475	9.7345				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998235** MSACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.17 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:29:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.010.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 101% (61-152) Conc.: 29.16641
%SSR(DCB) : 106% (48-164) Conc.: 30.63865

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	2.13	
3.16	3.18	3.20	941659.6	451.255407			1
3.37	3.40	3.41	952697.3	447.10382			2
+ 3.37	3.41	3.41	415136.2	194.824716			2
3.49	3.51	3.53	1031909	430.149167			3
3.71	3.73	3.75	1219668	458.887889			4
3.76	3.79	3.80	980105.9	450.842851			5
3.96	3.98	4.00	779496.1	447.185903			6
Height Summation:			5905535.9				
Amount Avg CF:			447.570839	Linear:			
Aroclor-1221					3	32.67	
3.06	3.08	3.10	174890.8	174.955856			1
E 3.11	3.13	3.15	206368.3	238.799466			2
E 3.16	3.18	3.20	941659.6	337.292374			3
Height Summation:			1322918.7				
Amount Avg CF:			250.349232	Linear:			
Aroclor-1232					6	29.10	
E 3.16	3.18	3.20	941659.6	376.018744			1
E 3.38	3.40	3.42	952697.3	945.425217			2
E+ 3.38	3.41	3.42	415136.2	411.967403			2
E 3.49	3.51	3.53	1031909	933.275037			3
E 3.71	3.73	3.75	1219668	1016.858979			4
E 3.77	3.79	3.81	980105.9	1042.277951			5
E 3.96	3.98	4.00	779496.1	1072.347013			6
Height Summation:			5905535.9				
Amount Avg CF:			897.70049	Linear:			
Aroclor-1242					6	3.44	
E 3.16	3.18	3.20	941659.6	526.748764			1
E 3.38	3.40	3.42	952697.3	539.682146			2
E+ 3.38	3.41	3.42	415136.2	235.165561			2
E 3.49	3.51	3.53	1031909	533.841811			3
E 3.71	3.73	3.75	1219668	560.893589			4
E 3.77	3.79	3.81	980105.9	575.676415			5
E 3.96	3.98	4.00	779496.1	560.061215			6
Height Summation:			5905535.9				
Amount Avg CF:			549.48399	Linear:			
Aroclor-1248					6	48.45	
3.76	3.79	3.80	980105.9	830.383774			1
3.83	3.86	3.87	701481.4	326.803017			2
3.96	3.98	4.00	779496.1	308.35694			3
4.05	4.07	4.09	823684.4	391.964102			4
4.23	4.23	4.27	1077046	432.656465			5
+ 4.23	4.25	4.27	295939.2	118.880724			5
4.61	4.63	4.65	1591133	871.924988			6
Height Summation:			5952946.8				
Amount Avg CF:			527.014881	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:29:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.010.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 103% (61-152) Conc.: 29.7557
%SSR(DCB) : 91% (48-164) Conc.: 26.19773

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	2.17	
2.88	2.90	2.92	5061140	440.104784			1
3.21	3.23	3.25	6332180	443.089498			2
+ 3.40	3.40	3.44	266507.9	18.55904			3
3.40	3.42	3.44	6644656	462.719628			3
3.47	3.49	3.51	7573301	445.958629			4
3.63	3.65	3.67	6218811	435.854861			5
+ 3.72	3.73	3.76	1555611	127.235			6
3.72	3.74	3.76	5537644	452.929514			6
Height Summation:			37367732				
Amount Avg CF:			446.776152	Linear:			
Aroclor-1221					3	28.88	
+ 2.77	2.77	2.81	8792.301	1.448724			1
2.77	2.79	2.81	1083838	178.58609			1
E 2.83	2.85	2.87	1055297	282.07501			2
E 2.88	2.90	2.92	5061140	326.109841			3
Height Summation:			7200275				
Amount Avg CF:			262.25698	Linear:			
Aroclor-1232					6	30.58	
E 2.88	2.90	2.92	5061140	360.236434			1
E 3.21	3.23	3.25	6332180	932.548473			2
+ 3.40	3.40	3.44	266507.9	43.870321			3
E 3.40	3.42	3.44	6644656	1093.788185			3
E 3.47	3.49	3.51	7573301	1014.714849			4
E+ 3.66	3.68	3.70	2222881	1090.583909			5
E 3.66	3.70	3.70	2239922	1098.944519			5
E+ 3.73	3.73	3.77	1555611	291.105898			6
E 3.73	3.74	3.77	5537644	1036.275026			6
Height Summation:			33388843				
Amount Avg CF:			922.751248	Linear:			
Aroclor-1242					6	4.47	
E 2.88	2.90	2.92	5061140	511.849519			1
E 3.21	3.23	3.25	6332180	536.22119			2
+ 3.40	3.40	3.44	266507.9	22.949802			3
E 3.40	3.42	3.44	6644656	572.191434			3
E 3.47	3.49	3.51	7573301	570.612928			4
E 3.64	3.65	3.68	6218811	569.08979			5
+ 3.73	3.73	3.77	1555611	158.927625			6
E 3.73	3.74	3.77	5537644	565.748513			6
Height Summation:			37367732				
Amount Avg CF:			554.285562	Linear:			
Aroclor-1248					6	67.71	
+ 3.40	3.40	3.44	266507.9	47.056331			1
E 3.40	3.42	3.44	6644656	1173.222741			1
3.51	3.53	3.55	5099212	319.226241			2
3.63	3.65	3.67	6218811	311.611191			3
+ 3.72	3.73	3.76	1555611	107.951955			4
3.72	3.74	3.76	5537644	384.28598			4
3.86	3.88	3.90	9012373	330.193094			5
+ 4.22	4.22	4.26	1824914	151.221166			6
4.22	4.24	4.26	5558580	460.610718			6
+ 4.22	4.25	4.26	4738426	392.648807			6
Height Summation:			38071276				
Amount Avg CF:			496.524994	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998235** MSACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.17 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:29:41
Instrument : CP20--17342A
Result file : 20PCBS17137004.010.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	102.28	
4.21	4.23	4.25	1077046	366.958037			1
4.55	4.57	4.59	224364.1	76.064412			2
+ 4.55	4.59	4.59	197793.3	67.056321			2
4.61	4.63	4.65	1591133	267.085075			3
E 4.73	4.76	4.77	3271030	1829.276432			4
4.83	4.85	4.87	1173376	298.046221			5
E 5.14	5.16	5.18	5497994	1359.513066			6
Height Summation:			**12834943.1**				
Amount Avg CF:				**699.49054** Linear:			
Aroclor-1260					6	13.10	
4.73	4.76	4.77	3271030	767.458425			1
E 5.03	5.05	5.07	2568404	1090.613012			2
5.20	5.23	5.24	2206135	800.04657			3
E 5.37	5.39	5.41	2878613	914.914241			4
5.61	5.63	5.65	7552180	990.190993			5
5.82	5.84	5.86	3903054	910.958029			6
Height Summation:			**22379416**				
Amount Avg CF:				**912.363545** Linear:			
Aroclor-1262					6	46.53	
E 5.21	5.23	5.24	2206135	434.530153			1
E 5.37	5.39	5.41	2878613	701.837335			2
E 5.61	5.63	5.65	7552180	761.820773			3
E 5.81	5.84	5.85	3903054	712.421921			4
5.87	5.87	5.91	322119.1	118.688074			5
+ 5.87	5.89	5.91	294756	108.60586			5
E 6.25	6.26	6.29	1460930	442.463237			6
Height Summation:			**18323031.1**				
Amount Avg CF:				**528.626915** Linear:			
Aroclor-1268					6	127.46	
E 5.81	5.84	5.85	3903054	320.380392			1
5.87	5.87	5.91	322119.1	30.304367			2
+ 5.87	5.89	5.91	294756	27.730097			2
6.00	6.02	6.04	80501.26	8.121948			3
6.07	6.08	6.11	100080.4	44.043032			4
E 6.25	6.26	6.29	1460930	356.849535			5
6.45	6.47	6.49	352396.4	10.999229			6
Height Summation:			**6219081.16**				
Amount Avg CF:				**128.44975** Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:29:41
Instrument : CP20--17342B
Result file : 20PCBS17137004B.010.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	110.63	
4.16	4.18	4.19	3242457	152.506489			1
+ 4.22	4.22	4.26	1824914	48.374535			2
4.22	4.24	4.26	5558580	147.34597			2
+ 4.22	4.25	4.26	4738426	125.605456			2
E 4.31	4.33	4.35	22274610	1269.278429			3
4.38	4.40	4.42	5907087	232.930912			4
E 4.44	4.46	4.48	28412760	1945.556567			5
4.60	4.62	4.64	5928232	333.20579			6
Height Summation:			**71323726**				
Amount Avg CF:				**680.13736** Linear:			
Aroclor-1260					6	7.98	
4.31	4.33	4.35	22274610	775.748356			1
4.44	4.46	4.48	28412760	839.099024			2
4.55	4.57	4.59	20562140	754.754551			3
4.90	4.92	4.94	16021010	765.038626			4
5.09	5.11	5.13	44052400	926.945509			5
5.35	5.37	5.39	26578530	836.021694			6
Height Summation:			**157901450**				
Amount Avg CF:				**816.26796** Linear:			
Aroclor-1262					6	33.59	
E 4.71	4.73	4.75	12136000	368.164988			1
E 4.90	4.92	4.94	16021010	488.589339			2
E 5.09	5.11	5.13	44052400	706.304576			3
E 5.31	5.33	5.35	7039812	272.391617			4
E 5.35	5.37	5.39	26578530	638.917938			5
E 5.73	5.75	5.77	9966669	442.703958			6
Height Summation:			**115794421**				
Amount Avg CF:				**486.178736** Linear:			
Aroclor-1268					6	120.83	
5.31	5.33	5.35	7039812	83.637559			1
E 5.35	5.37	5.39	26578530	311.884715			2
5.51	5.53	5.55	560895.2	7.661156			3
5.57	5.59	5.61	369614.3	20.880821			4
E 5.73	5.75	5.77	9966669	347.449398			5
5.93	5.95	5.97	2158488	9.900833			6
Height Summation:			**46674008.5**				
Amount Avg CF:				**130.235747** Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			50.1475	9.7345		0.18	4	40	
Aroclor-1221			50.1475	15.0442	E	4.65	3	5	
Aroclor-1232			50.1475	12.0944	E	2.75	4	10	
Aroclor-1242			50.1475	12.0944	E	0.87	4	30	
Aroclor-1248			50.1475	9.7345		5.96	4	40	
Aroclor-1254			50.1475	12.9794	E	2.81	4	40	
Aroclor-1260			50.1475	11.5044	E	11.12	4	40	
Aroclor-1262			50.1475	9.7345	E	8.37	4	40	
Aroclor-1268			50.1475	9.7345	E	1.38	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998235MSACF AB42A01 MS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:29:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.010.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.006		3260	1625
2.039		4776	4702
2.103		8946	11402
2.131		154557	104093
2.199		26333	16793
2.219		9497	5678
2.286		1299	779
2.311		86685	63344
2.389		18345	16593
2.423		1456	972
2.567		10828	8075
2.627		7830	4665
2.649		19047	11838
2.702		960	781
2.734		2928	3159
2.802		1706	1197
2.828		1106	647
2.843		1913	1306
2.925	TCX	3370832	2297262
2.993		1169	648
3.038		9654	5699
3.078		174891	146391
3.108		3690	1804
3.135		206368	140387
3.183		941660	665072
3.23		37461	19197
3.244		132617	76389
3.276		122814	85621
3.315		3964	2591
3.397		952697	562813
3.414		415136	217840
3.451		106486	61931
3.467		32747	14091
3.483		84984	48793
3.513		1031909	777907
3.548		4510	2360
3.563		4323	2106
3.587		68250	46422
3.622		213113	123413
3.637		91453	46817
3.682		507269	264853
3.692		1058775	539947
3.729		1219668	911383
3.788		980106	763508
3.828		78517	55036
3.855		701481	521866
3.882		517841	435360
3.904		151210	83957
3.979		779496	568398
4.003		262147	163774
4.033		305279	218288
4.07		823684	839209
4.109		252704	201981
4.138		3570	1497

RT A	Compound A	Height A	Area A
4.154		38474	26469
4.193		47512	40374
4.228		1077047	800901
4.248		295939	170454
4.272		340333	251227
4.338		222576	191753
4.382		1403030	1299297
4.415		269883	209198
4.455		28020	20316
4.479		36428	26439
4.52		325512	317100
4.574		224364	162755
4.588		197793	133876
4.635		1591133	1380024
4.68		1384765	1494132
4.718		373261	281747
4.757		3271030	3093170
4.807		98492	91488
4.849		1173376	1116379
4.877		38767	23019
4.904		626205	562708
4.957		4327531	5423444
5.006		637537	580454
5.05		2568405	2601223
5.092		81135	54336
5.128		398162	477208
5.165		5497994	5203891
5.187		156888	72310
5.227		2206135	2007989
5.27		1507641	1416107
5.315		4222	4830
5.392		2878613	3872628
5.45		1241460	1139475
5.49		701987	611325
5.531		128452	128333
5.575		1034880	922260
5.601		31947	16291
5.631		7552180	7225021
5.72		9183	9009
5.749		2660	2075
5.791		3633	4736
5.838		3903054	3999627
5.875		322119	334097
5.89		294756	214027
5.989		5366	3753
6.022		80501	89411
6.085		100080	70009
6.109		559848	517296
6.265		1460930	1496160
6.309		98608	94521
6.466		352396	361969
6.611	DCB	2144284	2253982
6.687		8790	7989
6.916		1546	2564
7.044		814	765
7.128		787	1103
7.443		1130	1799
7.625		1142	1557
7.721		2043	2939
7.776		3000	5847
7.947		1349	2504
8.024		15947	26202
8.198		603	1196
8.584		973	1156
8.681		2391	2642

LANCASTER LABORATORIES

Sample Number: 8998235MSACF AB42A01 MS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:29:41 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.010.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		15664	9383
2.054		25630	17449
2.115		139761	90105
2.142		2511	841
2.159		21141	13303
2.185		10973	6695
2.213		8094	3993
2.239		9598	9528
2.3		41435	26179
2.321		15182	6023
2.365		128735	92931
2.398		13427	9985
2.434		23583	13065
2.461		9542	6542
2.494		7390	3538
2.552		3257	2166
2.571		15391	8353
2.59		11304	6010
2.616	TCX	20920080	12223150
2.659		394829	304010
2.701		5578	7908
2.736		33711	18391
2.767		8792	5033
2.786		1083838	691760
2.812		16783	9496
2.847		1055297	659261
2.899		5061140	3988374
2.949		19007	8772
3.01		639208	409042
3.034		17698	8681
3.068		3493	2533
3.105		6278625	6144440
3.157		780970	479829
3.178		407288	225763
3.203		531894	298213
3.227		6332180	4188134
3.263		345448	201270
3.309		1690744	862441
3.325		967991	463587
3.351		13534	6197
3.375		3437958	1649553
3.384		7591726	3320665
3.405		266508	91729
3.418		6644657	4420792
3.492		7573301	4536643
3.527		5099213	3084988
3.55		5647823	3067653
3.568		1838481	928777
3.653		6218811	4028731
3.676		2222881	1186729
3.696		2239922	1288666
3.725		1555611	794728
3.742		5537644	3127911
3.783		1784877	1298456

RT B	Compound B	Height B	Area B
3.831		393480	366632
3.853		1492888	893854
3.875		9012373	5841974
3.9		1931223	1149501
3.92		497155	247611
3.938		1275922	787874
3.973		9145552	5994432
4.006		2008435	1273743
4.023		626908	326472
4.085		235221	180142
4.118		1625297	1483680
4.147		98602	87961
4.175		3242457	2355013
4.217		1824914	1437690
4.235		5558580	2906932
4.249		4738426	2306079
4.274		3581557	3626327
4.327		22274610	16747820
4.365		718936	655579
4.397		5907087	4023411
4.421		4952897	3427899
4.463		28412760	21645000
4.517		32238	21695
4.567		20562140	19890040
4.617		5928232	4952419
4.658		5967819	5027206
4.695		32844510	26573300
4.727		12136000	8094773
4.765		9420557	7117435
4.838		258523	231092
4.865		2392778	1617380
4.881		398248	209218
4.916		16021010	12460630
4.94		3579773	2330508
4.99		8771331	7477141
5.026		4326462	3448229
5.055		3227794	2597649
5.088		1911086	1131707
5.11		44052400	35200950
5.152		799745	593917
5.184		1291328	1045604
5.224		26288	18033
5.247		26107	17297
5.302		358898	221606
5.325		7039812	5742472
5.371		26578530	28049670
5.443		45826	32364
5.469		7318	4237
5.489		11114	5630
5.525		560895	482546
5.57		739932	573467
5.594		369614	269909
5.643		4189775	3398307
5.686		9402	7976
5.72		73863	47999
5.749		9966669	7918928
5.781		537038	403203
5.889		4847	4710
5.948		2158488	1927842
6.029		4237	5344
6.064		5030	3627
6.107	DCB	12979940	11553930
6.281		36305	28037
6.309		105453	82832
6.372		5180	4165
6.446		7109	10376

RT B	Compound B	Height B	Area B
6.528		6183	8260
6.581		9014	10609
6.681		3348	4158
6.729		3905	2917
6.784		18730	20053
6.824		1985	1476
6.88		2881	2226
6.917		3974	5275
6.949		5473	7037
7.009		14212	12874
7.059		3633	2961
7.122		5500	7535
7.233		3367	4282
7.302		5522	8844
7.417		4575	6028
7.46		7503	9526
7.552		81546	98858
7.6		3651	4807
7.645		3173	5752
7.708		3821	7281
7.833		4834	9932
7.916		1911	1359
8.11		8218	16754
8.208		19467	36400
8.347		3204	4382
8.424		17807	39837
8.604		675	3607

8998235MSACF AB42A01 MS 171380028A 10225 SW-846 8082

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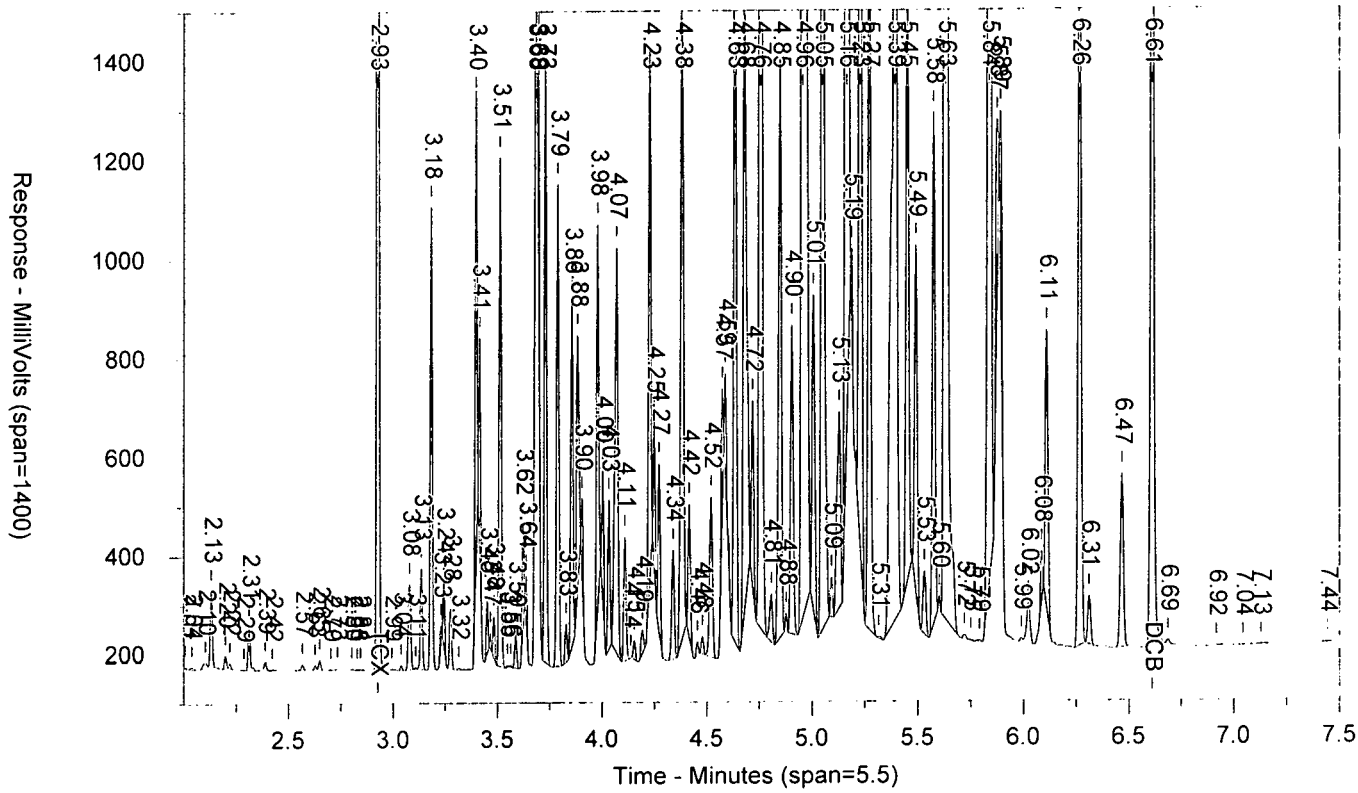

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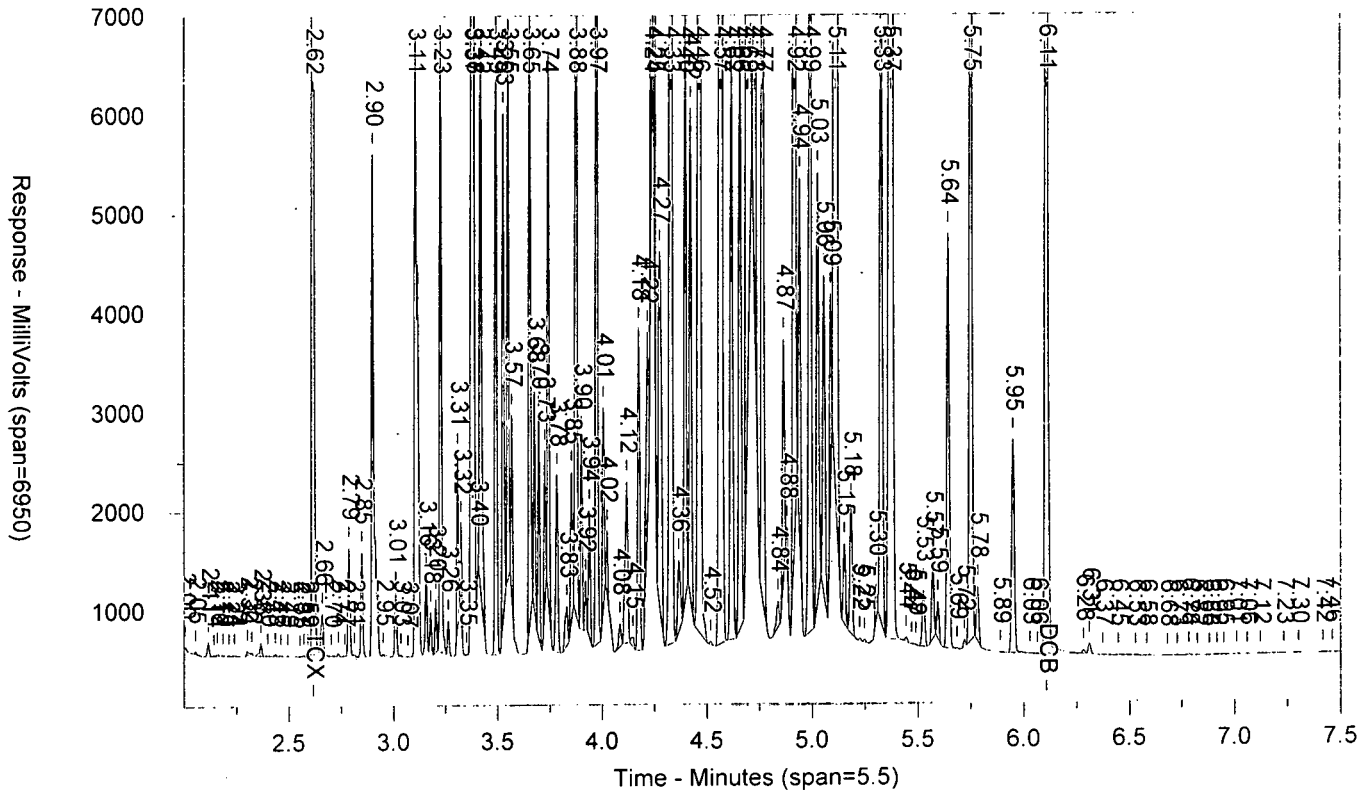

LANCASTER LABORATORIES

Sample Number: 8998235MSACF AB42A01 MS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:29:41 PM Sample Weight: 10.17
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3370832	29.166	TCX	2.616	20920080	29.756	TCX
6.611	2144284	30.639	DCB	6.107	12979940	26.198	DCB

Files:
Area File: 20pcbs17137004.010.RAW
Area File: 20pcbs17137004B.010.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 3:38:25 PM
File Reported On: 5/21/2017 at 3:38:35 PM

8998235MSACF AB42A01 MS 171380028A 10225 SW-846 8082

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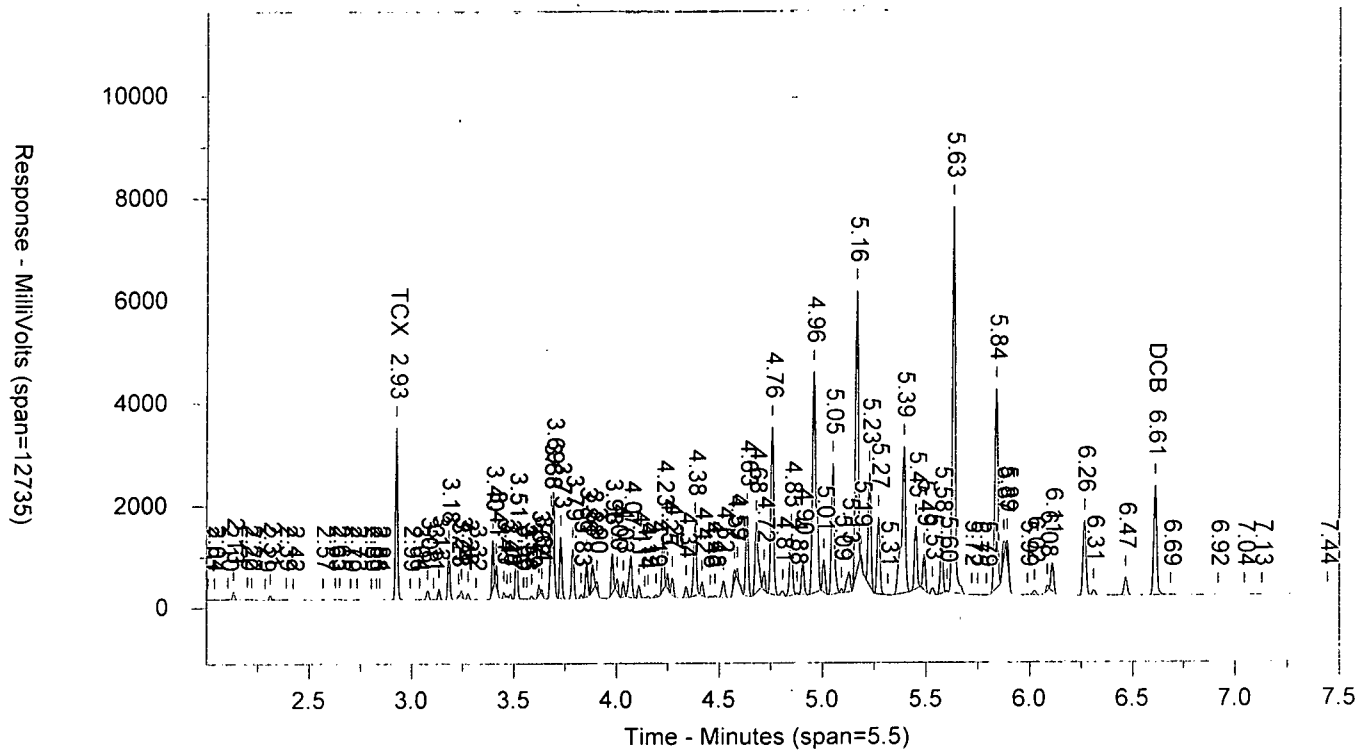

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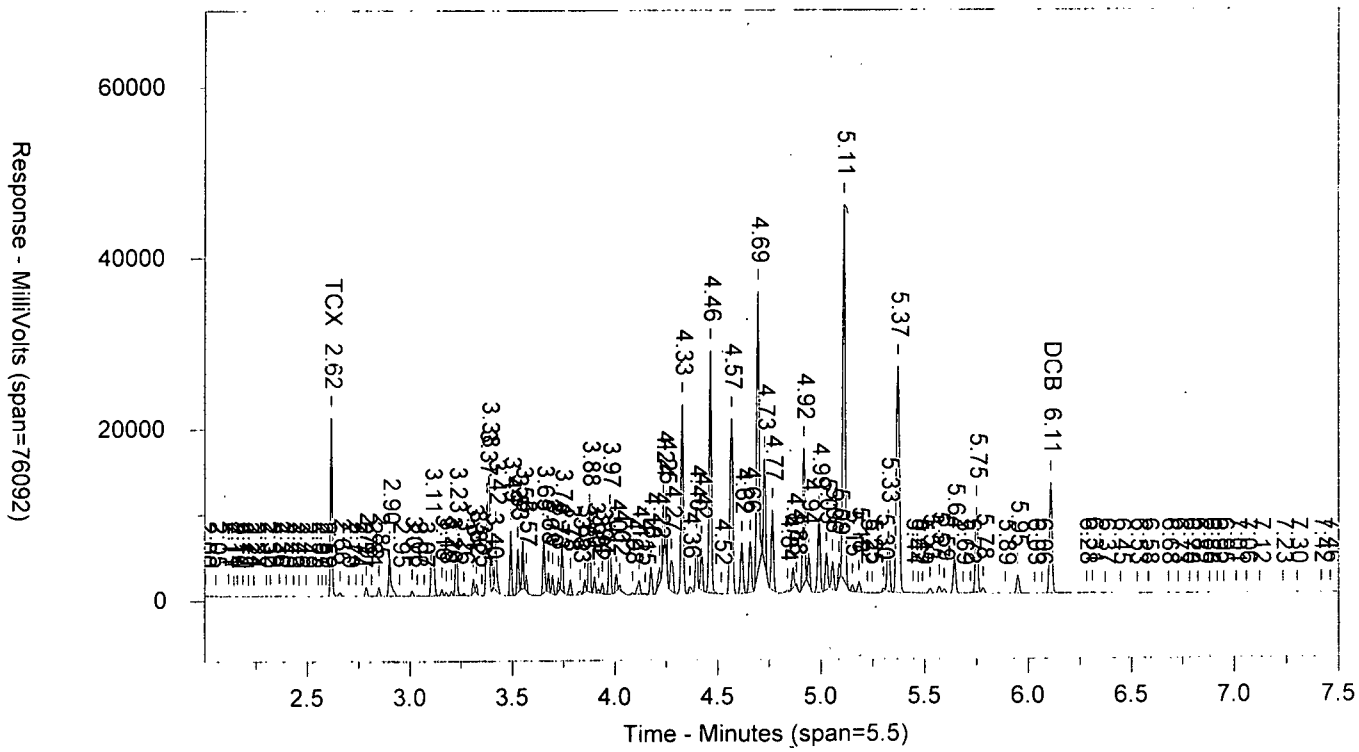

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Data Summary

Sample Name: 8998236 MSDACF 42A01 MSD Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.46 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:40:58
Instrument	17342A
Result file	20PCBS17137004.011.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 98% (61 - 152) Conc: 27.39462
%SSR(DCB) 99% (48 - 164) Conc: 27.69609

Analysis Report (B)

Injected on	May 21, 2017 15:40:58
Instrument	17342B
Result file	20PCBS17137004B.011.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 97% (61 - 152) Conc: 27.06711
%SSR(DCB) 90% (48 - 164) Conc: 25.29478

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3256342	27.39462
Decachlorobiphenyl	6.58	6.61	6.64	1993618	27.69609

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	19572470	27.06711
Decachlorobiphenyl	6.08	6.11	6.14	12889930	25.29478

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	A	27.39462				1.20	
☐ Decachlorobiphenyl	A	27.69609				9.06	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**3.06**	
3.16	3.18	3.20	937642.9	436.873013			1
3.37	3.40	3.41	919883.1	419.735164			2
3.49	3.51	3.53	1004434	407.088055			3
3.71	3.73	3.75	1157355	423.370727			4
3.76	3.79	3.80	943694.8	422.058853			5
3.96	3.98	4.00	795308.9	443.607897			6

Height summation: **5758318.7**
Concentration CF: **425.455618** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**2.68**	
2.88	2.90	2.92	4911629	415.262355			1
3.21	3.23	3.25	5975609	406.545957			2
3.40	3.42	3.44	6231359	421.90771			3
3.47	3.49	3.51	7320416	419.116138			4
3.63	3.65	3.67	6180309	421.147273			5
3.72	3.74	3.76	5542226	440.736571			6

Height summation: **36161548**
Concentration CF: **420.786001** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**25.62**	
4.73	4.76	4.77	5134396	1171.248265			1
5.03	5.05	5.07	4859730	2006.359472			2
5.20	5.23	5.24	3265404	1151.35532			3
5.37	5.39	5.41	3339777	1032.057379			4
5.61	5.63	5.65	11677810	1488.666148			5
5.82	5.84	5.86	6672809	1514.229736			6

Height summation: **34949926**
Concentration CF: **1393.986053** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.10**	
4.31	4.33	4.35	34569690	1170.56493			1
4.44	4.46	4.48	45289700	1300.434569			2
4.55	4.57	4.59	32881810	1173.498159			3
4.90	4.92	4.94	24312480	1128.787005			4
5.09	5.11	5.13	71541860	1463.639516			5
5.35	5.37	5.39	43585140	1332.951364			6

Height summation: **252180680**
Concentration CF: **1261.645924** L:

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Data Summary

Sample Name: 8998236 MSDACF 42A01 MSD Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.46 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:40:58
Instrument	17342A
Result file	20PCBS17137004.011.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

Analysis Report (B)

Injected on	May 21, 2017 15:40:58
Instrument	17342B
Result file	20PCBS17137004B.011.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016	A	425.455618	48.7572	9.4646		1.10	4	
☐ PCB-1221			<48.7572	<14.6272			3	
☐ PCB-1232			<48.7572	<11.7591			4	
☐ PCB-1242			<48.7572	<11.7591			4	
☐ PCB-1248			<48.7572	<9.4646			4	
☐ PCB-1254			<48.7572	<12.6195			4	
☐ PCB-1260	A	1393.986053	48.7572	11.1855		9.97	4	
☐ PCB-1262			<48.7572	<9.4646			4	
☐ PCB-1268			<48.7572	<9.4646			4	
☐ Total PCBs	A	1819.441672	48.7572	9.4646				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Kirby B. Turner
Associate Chemist
Date: MAY 23 2017

Verified by: MAY 23 2017
Date:

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998236** MSDACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.46 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:40:58
Instrument : CP20--17342A
Result file : 20PCBS17137004.011.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 98% (61-152) Conc.: 27.39462
%SSR(DCB) : 99% (48-164) Conc.: 27.69609

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	3.06	
3.16	3.18	3.20	937642.9	436.873013			1
3.37	3.40	3.41	919883.1	419.735164			2
+ 3.37	3.41	3.41	413327.2	188.597834			2
3.49	3.51	3.53	1004434	407.088055			3
3.71	3.73	3.75	1157355	423.370727			4
3.76	3.79	3.80	943694.8	422.058853			5
3.96	3.98	4.00	795308.9	443.607897			6
Height Summation:			**5758318.7**				
Amount Avg CF:			**425.455618**	Linear:			
Aroclor-1221					3	34.80	
3.06	3.08	3.10	169042.7	164.417185			1
E 3.11	3.13	3.15	195208.3	219.623047			2
E 3.16	3.18	3.20	937642.9	326.542205			3
Height Summation:			**1301893.9**				
Amount Avg CF:			**236.860812**	Linear:			
Aroclor-1232					6	29.12	
E 3.16	3.18	3.20	937642.9	364.03429			1
E 3.38	3.40	3.42	919883.1	887.552714			2
E+ 3.38	3.41	3.42	413327.2	398.800324			2
E 3.49	3.51	3.53	1004434	883.240394			3
E 3.71	3.73	3.75	1157355	938.155781			4
E 3.77	3.79	3.81	943694.8	975.733863			5
E 3.96	3.98	4.00	795308.9	1063.766993			6
Height Summation:			**5758318.7**				
Amount Avg CF:			**852.080672**	Linear:			
Aroclor-1242					6	3.92	
E 3.16	3.18	3.20	937642.9	509.960249			1
E 3.38	3.40	3.42	919883.1	506.646474			2
E+ 3.38	3.41	3.42	413327.2	227.649327			2
E 3.49	3.51	3.53	1004434	505.22154			3
E 3.71	3.73	3.75	1157355	517.481355			4
E 3.77	3.79	3.81	943694.8	538.922435			5
E 3.96	3.98	4.00	795308.9	555.580075			6
Height Summation:			**5758318.7**				
Amount Avg CF:			**522.302022**	Linear:			
Aroclor-1248					6	78.60	
3.76	3.79	3.80	943694.8	777.36804			1
3.83	3.85	3.87	759270.9	343.918803			2
3.96	3.98	4.00	795308.9	305.889727			3
4.05	4.07	4.09	838586.6	387.991883			4
4.23	4.23	4.27	1328598	518.909723			5
+ 4.23	4.25	4.27	443600.7	173.256859			5
E 4.61	4.63	4.65	3166642	1687.177895			6
Height Summation:			**7832101.2**				
Amount Avg CF:			**670.209345**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:40:58
Instrument : CP20--17342B
Result file : 20PCBS17137004B.011.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 97% (61-152) Conc.: 27.06711
%SSR(DCB) : 90% (48-164) Conc.: 25.29478

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	2.68	
2.88	2.90	2.92	4911629	415.262355			1
3.21	3.23	3.25	5975609	406.545957			2
+ 3.40	3.40	3.44	280946.3	19.02208			3
3.40	3.42	3.44	6231359	421.90771			3
3.47	3.49	3.51	7320416	419.116138			4
3.63	3.65	3.67	6180309	421.147273			5
+ 3.72	3.72	3.76	1493317	118.753622			6
3.72	3.74	3.76	5542226	440.736571			6
Height Summation:			**36161548**				
Amount Avg CF:			**420.786001**	Linear:			
Aroclor-1221					3	28.69	
2.77	2.79	2.81	1055233	169.052224			1
E 2.83	2.85	2.87	1009959	262.471963			2
E 2.88	2.90	2.92	4911629	307.702041			3
Height Summation:			**6976821**				
Amount Avg CF:			**246.408743**	Linear:			
Aroclor-1232					6	31.12	
E 2.88	2.90	2.92	4911629	339.902304			1
E 3.21	3.23	3.25	5975609	855.637095			2
+ 3.40	3.40	3.44	280946.3	44.964867			3
E 3.40	3.42	3.44	6231359	997.315955			3
E 3.47	3.49	3.51	7320416	953.638613			4
E+ 3.66	3.68	3.70	2194683	1046.896963			5
E 3.66	3.70	3.70	2270962	1083.283199			5
E 3.73	3.74	3.77	5542226	1008.378318			6
Height Summation:			**32252201**				
Amount Avg CF:			**873.025914**	Linear:			
Aroclor-1242					6	5.56	
E 2.88	2.90	2.92	4911629	482.957341			1
E 3.21	3.23	3.25	5975609	491.996668			2
+ 3.40	3.40	3.44	280946.3	23.522389			3
E 3.40	3.42	3.44	6231359	521.724091			3
E 3.47	3.49	3.51	7320416	536.267427			4
E 3.64	3.65	3.68	6180309	549.886292			5
E 3.73	3.74	3.77	5542226	550.518462			6
Height Summation:			**36161548**				
Amount Avg CF:			**522.225047**	Linear:			
Aroclor-1248					6	60.90	
+ 3.40	3.40	3.44	280946.3	48.230366			1
E 3.40	3.42	3.44	6231359	1069.744374			1
3.51	3.53	3.55	5254558	319.831308			2
3.63	3.65	3.67	6180309	301.096111			3
+ 3.72	3.72	3.76	1493317	100.755969			4
3.72	3.74	3.76	5542226	373.940933			4
3.86	3.87	3.90	12618110	449.482104			5
E 4.22	4.24	4.26	12793860	1030.768271			6
+ 4.22	4.25	4.26	5340408	430.262885			6
Height Summation:			**48620422**				
Amount Avg CF:			**590.810517**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998236** MSDACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.46 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:40:58
Instrument : CP20--17342A
Result file : 20PCBS17137004.011.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	97.26	
4.21	4.23	4.25	1328598	440.113829			1
4.55	4.57	4.59	481697	158.778376			2
+ 4.55	4.59	4.59	189777.2	62.554917			2
4.61	4.63	4.65	3166642	516.810552			3
E 4.73	4.76	4.77	5134396	2791.73018			4
4.83	4.85	4.87	2586099	638.676348			5
E 5.14	5.16	5.18	9502072	2284.476577			6
Height Summation:			**22199504**				
Amount Avg CF:			**1138.430977**	Linear:			
Aroclor-1260					6	25.62	
E 4.73	4.76	4.77	5134396	1171.248265			1
E 5.03	5.05	5.07	4859730	2006.359472			2
E 5.20	5.23	5.24	3265404	1151.35532			3
+ 5.37	5.38	5.41	119572	36.950121			4
E 5.37	5.39	5.41	3339777	1032.057379			4
E 5.61	5.63	5.65	11677810	1488.666148			5
E 5.82	5.84	5.86	6672809	1514.229736			6
Height Summation:			**34949926**				
Amount Avg CF:			**1393.986053**	Linear:			
Aroclor-1262					6	46.63	
E 5.21	5.23	5.24	3265404	625.336851			1
+ 5.37	5.38	5.41	119572	28.344705			2
E 5.37	5.39	5.41	3339777	791.698683			2
E 5.61	5.63	5.65	11677810	1145.331358			3
E 5.81	5.84	5.85	6672809	1184.215323			4
E+ 5.87	5.87	5.91	537741.8	192.643194			5
E 5.87	5.89	5.91	567045.3	203.14102			5
E 6.25	6.27	6.29	2433526	716.593796			6
Height Summation:			**27956371.3**				
Amount Avg CF:			**777.719505**	Linear:			
Aroclor-1268					6	128.82	
E 5.81	5.84	5.85	6672809	532.548702			1
+ 5.87	5.87	5.91	537741.8	49.187167			2
5.87	5.89	5.91	567045.3	51.867554			2
6.00	6.02	6.04	101548.1	9.961359			3
6.07	6.08	6.11	157306.8	67.30773			4
E 6.25	6.27	6.29	2433526	577.937648			5
6.45	6.46	6.49	495466	15.036055			6
Height Summation:			**10427701.2**				
Amount Avg CF:			**209.109841**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:40:58
Instrument : CP20--17342B
Result file : 20PCBS17137004B.011.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	95.43	
4.16	4.17	4.19	6107570	279.300568			1
4.22	4.24	4.26	12793860	329.735164			2
+ 4.22	4.25	4.26	5340408	137.637922			2
E 4.31	4.33	4.35	34569690	1915.276783			3
4.38	4.40	4.42	14881090	570.529063			4
E 4.44	4.46	4.48	45289700	3015.221018			5
4.60	4.62	4.64	14005080	765.353744			6
Height Summation:			**127646990**				
Amount Avg CF:			**1145.902723**	Linear:			
Aroclor-1260					6	10.10	
E 4.31	4.33	4.35	34569690	1170.56493			1
E 4.44	4.46	4.48	45289700	1300.434569			2
E 4.55	4.57	4.59	32881810	1173.498159			3
E 4.90	4.92	4.94	24312480	1128.787005			4
E 5.09	5.11	5.13	71541860	1463.639516			5
E 5.35	5.37	5.39	43585140	1332.951364			6
Height Summation:			**252180680**				
Amount Avg CF:			**1261.645924**	Linear:			
Aroclor-1262					6	36.87	
E 4.71	4.73	4.75	18351870	541.298109			1
E 4.90	4.92	4.94	24312480	720.896015			2
E 5.09	5.11	5.13	71541860	1115.249254			3
E 5.31	5.33	5.35	10556990	397.156848			4
E 5.35	5.37	5.39	43585140	1018.689519			5
E 5.73	5.75	5.77	15864150	685.124417			6
Height Summation:			**184212490**				
Amount Avg CF:			**746.40236**	Linear:			
Aroclor-1268					6	124.17	
5.31	5.33	5.35	10556990	121.946592			1
E 5.35	5.37	5.39	43585140	497.268383			2
5.51	5.52	5.55	766315.2	10.176754			3
5.57	5.59	5.61	415329.2	22.812903			4
E 5.73	5.75	5.77	15864150	537.709371			5
5.93	5.95	5.97	3173411	14.152647			6
Height Summation:			**74361335.4**				
Amount Avg CF:			**200.677775**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			48.7572	9.4646		1.10	4	40	
Aroclor-1221			48.7572	14.6272	E	3.95	3	5	
Aroclor-1232			48.7572	11.7591	E	2.43	4	10	
Aroclor-1242			48.7572	11.7591	E	0.01	4	30	
Aroclor-1248			48.7572	9.4646	E	12.59	4	40	
Aroclor-1254			48.7572	12.6195	E	0.65	4	40	
Aroclor-1260			48.7572	11.1855	E	9.97	4	40	
Aroclor-1262			48.7572	9.4646	E	4.11	4	40	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **8998236** MSDACF 42A01 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10.46 g Total Volume: 10 ml Analyst: 2855 SDG: ATE42 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	: May 21, 2017 15:40:58
Instrument	: CP20--17342A
Result file	: 20PCBS17137004.011.RAW
Calibration file	: 20PCBS1713701.CAL
Method file	: 20PCBS.MET

Analysis Report (B)

Injected on	: May 21, 2017 15:40:58
Instrument	: CP20--17342B
Result file	: 20PCBS17137004B.011.RAW
Calibration file	: 20PCBS1713701B.CAL
Method file	: 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			48.7572	9.4646	E	4.12	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 8998236MSDACF AB42A01 MSD 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:40:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.011.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.007		3748	1848
2.038		7338	7743
2.1		7683	8434
2.131		154323	103278
2.199		51746	32982
2.218		7240	3710
2.283		2618	1563
2.311		97824	72435
2.388		14498	13967
2.424		2430	2004
2.459		1036	946
2.567		11315	8283
2.627		17044	9680
2.648		35255	21244
2.705		1119	1542
2.733		3156	2280
2.799		3020	1707
2.844		2792	3014
2.873		1212	897
2.925	TCX	3256343	2197433
2.994		1253	709
3.038		17241	10890
3.078		169043	141625
3.108		2032	922
3.135		195208	136988
3.182		937643	642801
3.23		58197	29953
3.244		341235	194506
3.275		115952	81100
3.314		5324	3589
3.349		3322	2277
3.397		919883	547112
3.413		413327	215048
3.45		102591	60096
3.466		34397	14392
3.482		80995	47565
3.512		1004434	750723
3.547		4315	2231
3.562		4400	2164
3.586		72881	49539
3.622		196020	117208
3.636		98896	48638
3.681		421255	235414
3.692		1101303	576811
3.728		1157355	908067
3.787		943695	748718
3.827		75029	55111
3.855		759271	540513
3.881		511357	427166
3.903		174598	95644
3.978		795309	574608
4.002		255217	169435
4.033		298178	218967
4.069		838587	863085

RT A	Compound A	Height A	Area A
4.108		256690	204842
4.137		7378	3505
4.153		39780	26646
4.191		56306	45849
4.226		1328598	974255
4.247		443601	253446
4.271		526561	393389
4.337		354633	301930
4.381		2133855	1972669
4.414		655763	521332
4.454		60519	46487
4.478		71330	51368
4.519		591553	576857
4.572		481697	335568
4.586		189777	94200
4.604		202996	111883
4.634		3166642	2742962
4.679		1927817	2135002
4.717		667218	490448
4.755		5134396	4656748
4.806		226001	213230
4.848		2586099	2511334
4.877		48710	26950
4.903		964890	881179
4.956		7342190	8670797
5.006		928418	828798
5.048		4859731	4756054
5.091		196584	139224
5.127		648561	772453
5.165		9502072	8768291
5.186		293160	151569
5.226		3265404	2958958
5.27		2216936	2204836
5.314		7671	8349
5.376		119572	234212
5.391		3339777	2745517
5.45		1919127	1721294
5.489		1134621	981250
5.53		191923	177610
5.575		1749102	1558365
5.6		71235	39535
5.631		11677810	11368400
5.719		15005	14050
5.748		3580	3209
5.774		4134	2558
5.798		3514	1877
5.837		6672809	6386010
5.873		537742	494354
5.889		567045	404112
5.988		12527	9746
6.022		101548	113535
6.084		157307	115708
6.108		908116	805275
6.173		4233	3690
6.265		2433526	2307717
6.31		143369	138704
6.464		495466	520987
6.609	DCB	1993618	2160631
6.687		14904	14085
6.882		1796	2019
6.914		1774	2556
7.051		714	904
7.074		1541	1757
7.123		2166	2691
7.238		731	1316
7.625		862	648

RT A	Compound A	Height A	Area A
7.721		2558	3572
7.775		3941	5617
7.831		739	715
8.023		35985	62998
8.091		1068	1675
8.228		748	2561
8.585		1389	2913
8.682		5601	8837

LANCASTER LABORATORIES

Sample Number: 8998236MSDACF AB42A01 MSD 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:40:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.011.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		17564	11200
2.054		30299	25801
2.115		109590	86304
2.159		34469	24178
2.214		11836	7740
2.231		9499	9939
2.281		2640	1382
2.301		20563	10536
2.311		13308	4553
2.322		33522	14764
2.366		247545	187183
2.392		8806	6868
2.435		17904	10589
2.462		9552	10340
2.494		21317	13199
2.53		9641	6949
2.571		15936	14829
2.592		7976	4251
2.616	TCX	19572470	11552650
2.66		386946	297165
2.708		39742	30216
2.736		17622	8154
2.757		3591	1753
2.787		1055233	672201
2.848		1009959	637497
2.877		7198	3353
2.899		4911629	4889531
2.952		38218	38091
3.01		631800	397166
3.034		40644	20097
3.062		8664	7231
3.106		6297322	5929023
3.157		742998	454890
3.178		388347	217628
3.203		525140	288507
3.227		5975609	4026282
3.264		388032	226273
3.31		1540072	815979
3.325		937030	442483
3.352		10662	4485
3.375		3527541	1651833
3.384		8015490	3322497
3.404		280946	101359
3.418		6231359	4250965
3.492		7320416	4360478
3.526		5254558	3098090
3.55		5469853	3026627
3.567		1989441	1016424
3.653		6180309	3964147
3.675		2194683	1143672
3.696		2270962	1308661
3.725		1493317	766980
3.742		5542226	3111181
3.783		1702686	1298958

RT B	Compound B	Height B	Area B
3.83		442429	424393
3.853		1749348	1042634
3.875		12618110	7699427
3.899		2941589	1698170
3.919		820707	420392
3.938		1964681	1203449
3.973		13713340	9116071
4.005		4893509	3082822
4.023		845430	390035
4.083		486655	347869
4.118		3272727	2655077
4.144		150617	135841
4.175		6107571	4429692
4.216		2483926	2736938
4.235		12793860	7078100
4.248		5340408	2323447
4.274		5274827	5181719
4.326		34569690	25786830
4.364		1715191	1417897
4.396		14881090	10022540
4.42		7986815	5244122
4.463		45289700	34641760
4.516		57155	37114
4.565		32881810	30715030
4.615		14005080	11567290
4.657		9241871	7787169
4.694		55107920	45680080
4.727		18351870	12084880
4.765		14130300	10998780
4.837		311533	328583
4.865		3337975	2262704
4.881		830933	434546
4.916		24312480	18867910
4.94		7572067	4873741
4.989		13552500	11486920
5.025		7171852	5498994
5.055		4961217	3988286
5.087		3686932	2224121
5.11		71541860	56054060
5.151		1255967	903307
5.183		1865235	1521294
5.225		30066	19795
5.247		74840	49845
5.282		21483	15039
5.301		520972	315509
5.325		10556990	8614861
5.369		43585140	44910140
5.443		123876	91439
5.47		19415	11633
5.488		14357	8443
5.525		766315	647987
5.57		1183747	938827
5.593		415329	300272
5.643		6613563	5295120
5.685		22773	21700
5.721		18031	9364
5.749		15864150	12562800
5.78		802646	600730
5.857		13301	16259
5.949		3173411	2759048
5.994		9515	6693
6.031		6997	8624
6.064		5401	3050
6.107	DCB	12889930	11215430
6.237		7069	6034
6.281		75549	54849

RT B	Compound B	Height B	Area B
6.308		240588	195521
6.343		4459	2578
6.451		3964	2893
6.528		15141	19258
6.582		27900	35694
6.673		2601	2525
6.728		8746	11351
6.783		26083	28191
6.881		4572	5198
6.911		4578	4300
6.947		10942	12085
7.01		20958	22848
7.059		4872	6030
7.12		8456	9415
7.233		4682	4814
7.299		9422	25929
7.42		6044	14911
7.46		10804	12708
7.552		194412	246519
7.594		4066	4505
7.706		3899	5630
7.758		2991	5662
7.835		4684	8173
7.949		6831	10127
8.035		3195	4554
8.108		15002	25001
8.212		19257	33671
8.347		3703	6894
8.424		26193	48319
8.58		2667	4943

8998236MSDACF AB42A01 MSD 171380028A 10225 SW-846 8082

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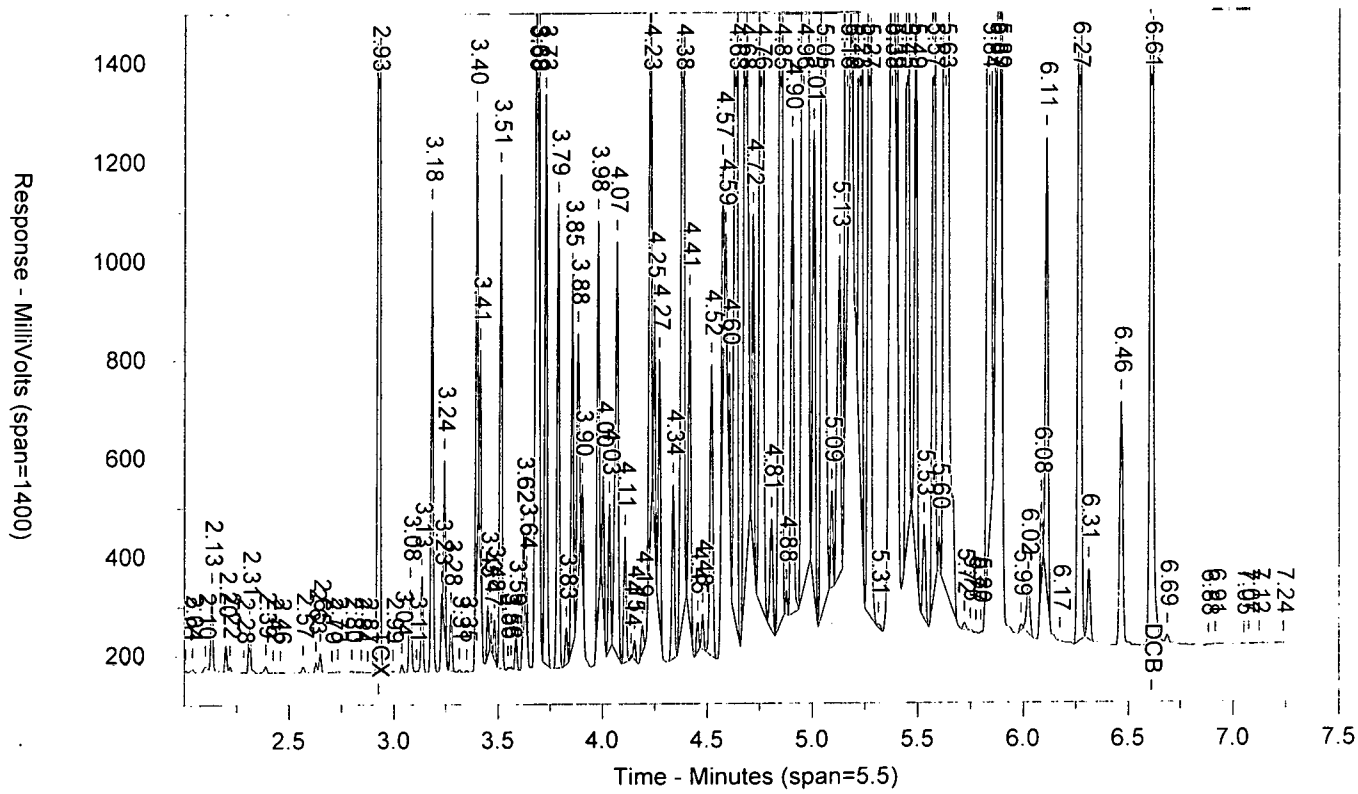

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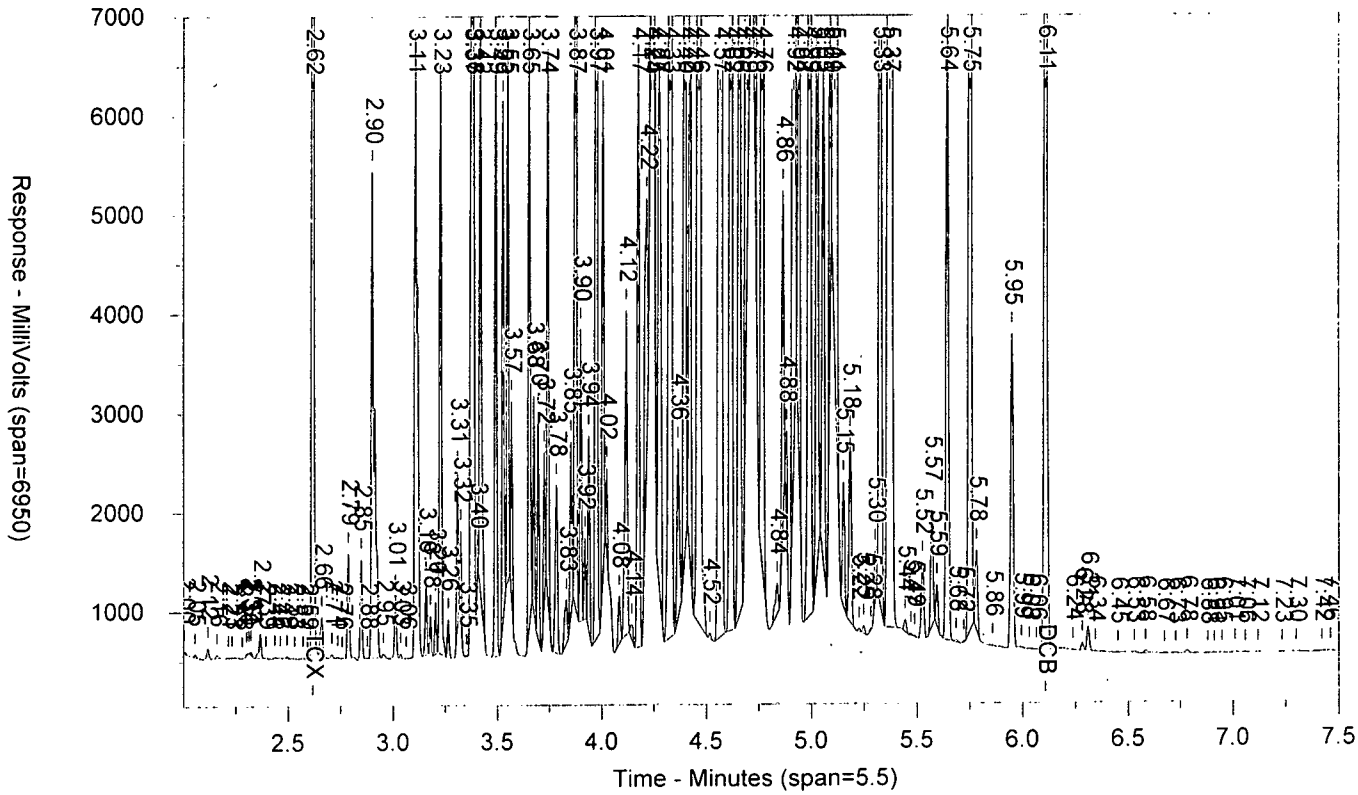

LANCASTER LABORATORIES

Sample Number: 8998236MSDACF AB42A01 MSD 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:40:58 PM Sample Weight: 10.46
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	3256343	27.395	TCX	2.616	19572470	27.067	TCX
6.609	1993618	27.696	DCB	6.107	12889930	25.295	DCB

Files:
Area File: 20pcbs17137004.011.RAW
Area File: 20pcbs17137004B.011.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 3:49:44 PM
File Reported On: 5/21/2017 at 3:49:49 PM

8998236MSDACF AB42A01 MSD 171380028A 10225 SW-846 8082

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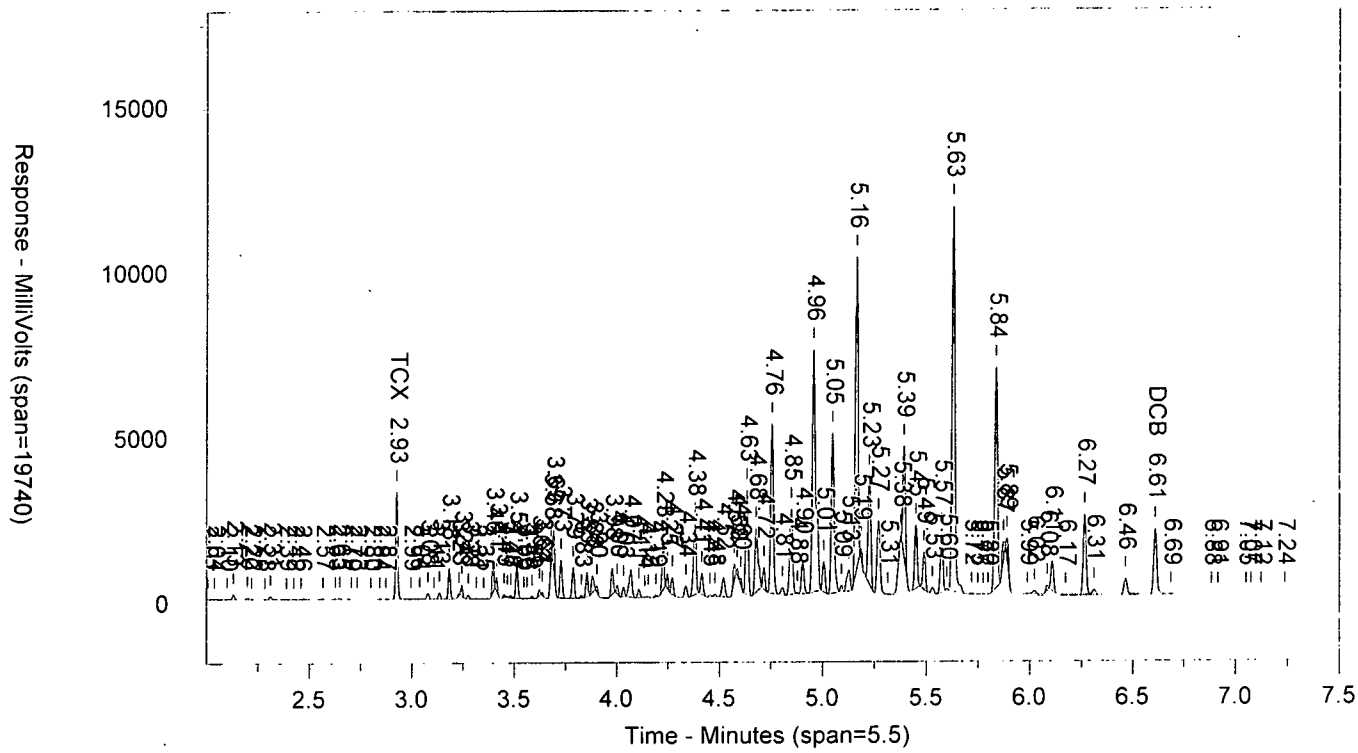

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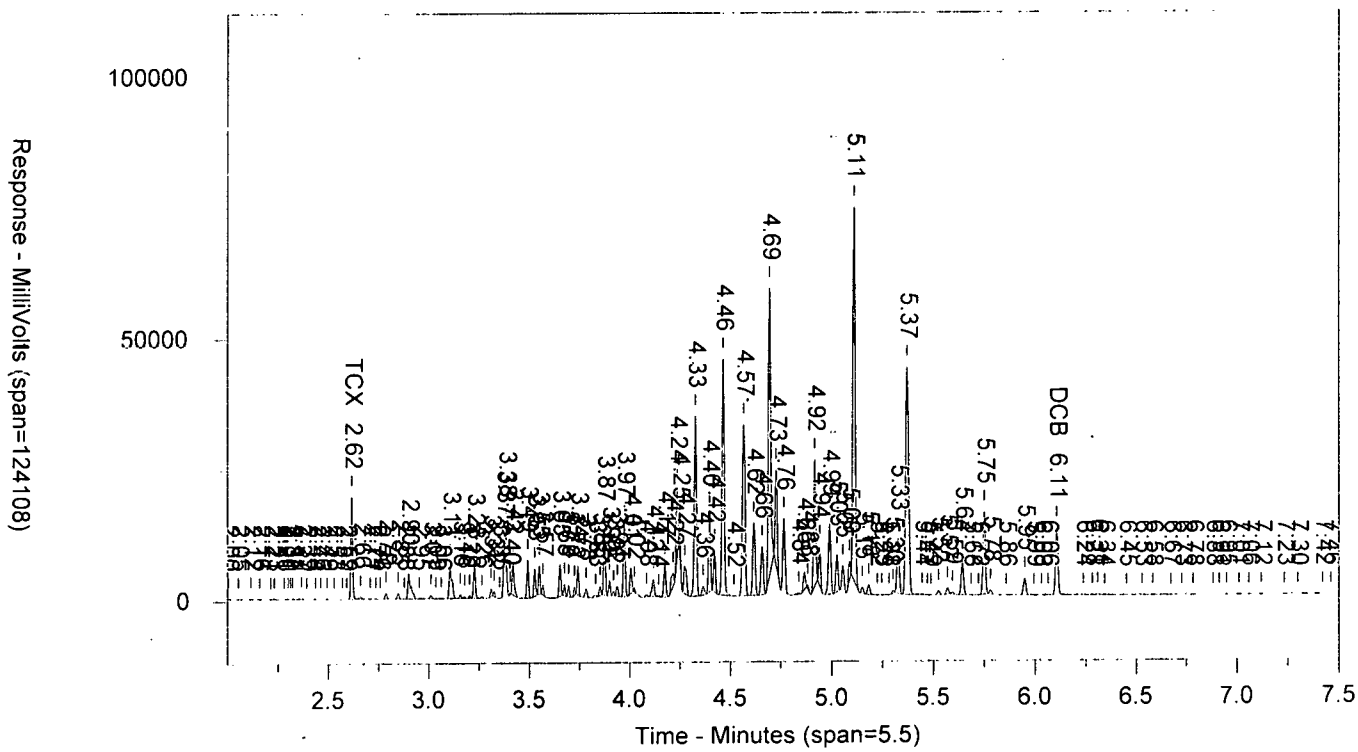

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Data Summary

Sample Name: LCSA 5/19/17 ACF LCS28138 LCS Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:06:46
Instrument	17342A
Result file	20PCBS17137004.008.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 101% (61 - 152) Conc: 29.47136
%SSR(DCB) 110% (48 - 164) Conc: 32.26833

Analysis Report (B)

Injected on	May 21, 2017 15:06:46
Instrument	17342B
Result file	20PCBS17137004B.008.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 102% (61 - 152) Conc: 29.95362
%SSR(DCB) 109% (48 - 164) Conc: 31.85227

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.93	2.95	3349140	29.47136
Decachlorobiphenyl	6.58	6.61	6.64	2220589	32.26833

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.62	2.65	20707200	29.95362
Decachlorobiphenyl	6.08	6.11	6.14	15517740	31.85227

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	B	29.95362				1.62	
☐ Decachlorobiphenyl	A	32.26833				1.30	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**1.41**	
3.16	3.18	3.20	941979.7	459.082753			1
3.37	3.40	3.41	935265.4	446.384665			2
3.49	3.51	3.53	1041646	441.589552			3
3.71	3.73	3.75	1186669	454.062375			4
3.76	3.79	3.80	952937.5	445.797424			5
3.96	3.98	4.00	767251.2	447.643916			6
Height summation:			**5825748.8**				
Concentration		CF:	**449.093448**	L:			
Aroclor-1260						**5.14**	
4.73	4.76	4.77	1969943	470.05096			1
5.03	5.05	5.07	1124006	485.396812			2
5.20	5.23	5.24	1299168	479.147748			3
5.37	5.39	5.41	1335589	431.70879			4
5.61	5.63	5.65	3768884	502.551256			5
5.82	5.84	5.86	2065819	490.350958			6
Height summation:			**11563409**				
Concentration		CF:	**476.534421**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**3.32**	
2.88	2.90	2.92	4976702	440.119214			1
3.21	3.23	3.25	6171208	439.16664			2
3.40	3.42	3.44	6713670	475.473551			3
3.47	3.49	3.51	7722956	462.502268			4
3.63	3.65	3.67	6523762	465.00069			5
3.72	3.74	3.76	5633044	468.564827			6
Height summation:			**37741342**				
Concentration		CF:	**458.471198**	L:			
Aroclor-1260						**4.35**	
4.31	4.33	4.35	13414340	475.11749			1
4.44	4.46	4.48	16064790	482.498313			2
4.55	4.57	4.59	12866030	480.289333			3
4.90	4.92	4.94	9848794	478.296803			4
5.09	5.11	5.13	24496680	524.219067			5
5.35	5.37	5.39	16123850	515.794007			6
Height summation:			**92814484**				
Concentration		CF:	**492.702502**	L:			

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Data Summary

Sample Name: LCSA 5/19/17 ACF LCS28138 LCS Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 21, 2017 15:06:46
Instrument	17342A
Result file	20PCBS17137004.008.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

Analysis Report (B)

Injected on	May 21, 2017 15:06:46
Instrument	17342B
Result file	20PCBS17137004B.008.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016	B	458.471198	51	9.9		2.07	4	
☐ PCB-1221			<51	<15.3			3	
☐ PCB-1232			<51	<12.3			4	
☐ PCB-1242			<51	<12.3			4	
☐ PCB-1248			<51	<9.9			4	
☐ PCB-1254			<51	<13.2			4	
☐ PCB-1260	B	492.702502	51	11.7		3.34	4	
☐ PCB-1262			<51	<9.9			4	
☐ PCB-1268			<51	<9.9			4	
☐ Total PCBs	A	951.173701	51	9.9				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 23 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 23 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **LCSA** 5/19/17 ACF LCS28138 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.008.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 101% (61-152) Conc.: 29.47136
%SSR(DCB) : 110% (48-164) Conc.: 32.26833

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**1.41**	
3.16	3.18	3.20	941979.7	459.082753			1
3.37	3.40	3.41	935265.4	446.384665			2
+ 3.37	3.41	3.41	422001.6	201.413463			2
3.49	3.51	3.53	1041646	441.589552			3
3.71	3.73	3.75	1186669	454.062375			4
3.76	3.79	3.80	952937.5	445.797424			5
3.96	3.98	4.00	767251.2	447.643916			6
Height Summation:			**5825748.8**				
Amount Avg CF:			**449.093447**	Linear:			
Aroclor-1221					**3**	**34.87**	
3.06	3.08	3.10	169861.1	172.812998			1
E 3.11	3.14	3.15	195366.3	229.911645			2
E 3.16	3.18	3.20	941979.7	343.14295			3
Height Summation:			**1307207.1**				
Amount Avg CF:			**248.622531**	Linear:			
Aroclor-1232					**6**	**28.64**	
E 3.16	3.18	3.20	941979.7	382.541056			1
E 3.38	3.40	3.42	935265.4	943.904526			2
E+ 3.38	3.41	3.42	422001.6	425.899665			2
E 3.49	3.51	3.53	1041646	958.096718			3
E 3.71	3.73	3.75	1186669	1006.166025			4
E 3.77	3.79	3.81	952937.5	1030.613715			5
E 3.96	3.98	4.00	767251.2	1073.445325			6
Height Summation:			**5825748.8**				
Amount Avg CF:			**899.127894**	Linear:			
Aroclor-1242					**6**	**2.33**	
E 3.16	3.18	3.20	941979.7	535.885596			1
E 3.38	3.40	3.42	935265.4	538.814081			2
E+ 3.38	3.41	3.42	422001.6	243.118589			2
E 3.49	3.51	3.53	1041646	548.040038			3
E 3.71	3.73	3.75	1186669	554.995417			4
E 3.77	3.79	3.81	952937.5	569.233963			5
E 3.96	3.98	4.00	767251.2	560.634837			6
Height Summation:			**5825748.8**				
Amount Avg CF:			**551.267322**	Linear:			
Aroclor-1248					**6**	**48.05**	
3.76	3.79	3.80	952937.5	821.090867			1
3.83	3.85	3.87	667595.4	316.303637			2
3.96	3.98	4.00	767251.2	308.672764			3
4.05	4.07	4.09	801169.7	387.731355			4
4.23	4.23	4.27	869723.5	355.313005			5
+ 4.23	4.25	4.27	222862	91.047059			5
4.61	4.63	4.65	561192.1	312.755634			6
Height Summation:			**4619869.4**				
Amount Avg CF:			**416.977877**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.008.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 102% (61-152) Conc.: 29.95362
%SSR(DCB) : 109% (48-164) Conc.: 31.85227

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**3.32**	
2.88	2.90	2.92	4976702	440.119214			1
3.21	3.23	3.25	6171208	439.16664			2
+ 3.40	3.40	3.44	296122.3	20.971886			3
3.40	3.42	3.44	6713670	475.473551			3
3.47	3.49	3.51	7722956	462.502268			4
3.63	3.65	3.67	6523762	465.00069			5
+ 3.72	3.73	3.76	1465672	121.916738			6
3.72	3.74	3.76	5633044	468.564827			6
Height Summation:			**37741342**				
Amount Avg CF:			**458.471198**	Linear:			
Aroclor-1221					**3**	**29.77**	
2.77	2.79	2.81	1045098	175.130273			1
E 2.83	2.85	2.87	1045060	284.087475			2
E 2.88	2.90	2.92	4976702	326.120532			3
Height Summation:			**7066860**				
Amount Avg CF:			**261.779427**	Linear:			
Aroclor-1232					**6**	**31.40**	
E 2.88	2.90	2.92	4976702	360.248245			1
E 3.21	3.23	3.25	6171208	924.292227			2
+ 3.40	3.40	3.44	296122.3	49.573866			3
E 3.40	3.42	3.44	6713670	1123.936226			3
E 3.47	3.49	3.51	7722956	1052.357525			4
E 3.66	3.68	3.70	2290640	1142.932718			5
E+ 3.66	3.70	3.70	2258532	1126.91218			5
E+ 3.73	3.73	3.77	1465672	278.938039			6
E 3.73	3.74	3.77	5633044	1072.047666			6
Height Summation:			**33508220**				
Amount Avg CF:			**945.969101**	Linear:			
Aroclor-1242					**6**	**6.70**	
E 2.88	2.90	2.92	4976702	511.8663			1
E 3.21	3.23	3.25	6171208	531.473798			2
+ 3.40	3.40	3.44	296122.3	25.933487			3
E 3.40	3.42	3.44	6713670	587.962724			3
E 3.47	3.49	3.51	7722956	591.780843			4
E 3.64	3.65	3.68	6523762	607.145104			5
+ 3.73	3.73	3.77	1465672	152.284651			6
E 3.73	3.74	3.77	5633044	585.278384			6
Height Summation:			**37741342**				
Amount Avg CF:			**569.251192**	Linear:			
Aroclor-1248					**6**	**75.46**	
+ 3.40	3.40	3.44	296122.3	53.174086			1
E 3.40	3.42	3.44	6713670	1205.560233			1
3.51	3.53	3.55	5198927	331.001673			2
3.63	3.65	3.67	6523762	332.448785			3
+ 3.72	3.73	3.76	1465672	103.4397			4
3.72	3.74	3.76	5633044	397.55169			4
3.86	3.88	3.90	7430829	276.877107			5
+ 4.22	4.22	4.26	1300663	109.611449			6
+ 4.22	4.24	4.26	1447021	121.945553			6
4.22	4.25	4.26	3729129	314.266826			6
Height Summation:			**35229361**				
Amount Avg CF:			**476.284385**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **LCSA** 5/19/17 ACF LCS28138 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.008.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	109.89	
4.21	4.23	4.25	869723.5	301.3591			1
+ 4.55	4.57	4.59	81382.8	28.059616			2
4.55	4.59	4.59	188609.3	65.029768			2
4.61	4.63	4.65	561192.1	95.802234			3
E 4.73	4.76	4.77	1969943	1120.390518			4
4.83	4.85	4.87	281227.2	72.648173			5
5.14	5.17	5.18	2781244	699.421806			6
Height Summation:			**6651939.1**				
Amount Avg CF:			**392.441933**	Linear:			
Aroclor-1260					6	5.14	
4.73	4.76	4.77	1969943	470.05096			1
5.03	5.05	5.07	1124006	485.396812			2
5.20	5.23	5.24	1299168	479.147748			3
+ 5.37	5.37	5.41	73034.88	23.607412			4
5.37	5.39	5.41	1335589	431.70879			4
5.61	5.63	5.65	3768884	502.551256			5
5.82	5.84	5.86	2065819	490.350958			6
Height Summation:			**11563409**				
Amount Avg CF:			**476.534421**	Linear:			
Aroclor-1262					6	43.58	
E 5.21	5.23	5.24	1299168	260.240031			1
+ 5.37	5.37	5.41	73034.88	18.109417			2
E 5.37	5.39	5.41	1335589	331.166937			2
E 5.61	5.63	5.65	3768884	386.646606			3
E 5.81	5.84	5.85	2065819	383.482839			4
+ 5.87	5.88	5.91	143328.1	53.708485			5
5.87	5.89	5.91	167495.1	62.764441			5
E 6.25	6.27	6.29	794791.6	244.805971			6
Height Summation:			**9431746.7**				
Amount Avg CF:			**278.184471**	Linear:			
Aroclor-1268					6	124.25	
5.81	5.84	5.85	2065819	172.454523			1
+ 5.87	5.88	5.91	143328.1	13.71327			2
5.87	5.89	5.91	167495.1	16.025508			2
6.00	6.02	6.04	63196.02	6.484376			3
6.07	6.09	6.11	65001.11	29.091754			4
6.25	6.27	6.29	794791.6	197.437639			5
6.45	6.47	6.49	215323.7	6.835079			6
Height Summation:			**3371626.53**				
Amount Avg CF:			**71.388146**	Linear:			

Analysis Report (B)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.008.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	124.70	
4.16	4.18	4.19	1558263	74.537669			1
+ 4.22	4.22	4.26	1300663	35.063894			2
+ 4.22	4.24	4.26	1447021	39.009482			2
4.22	4.25	4.26	3729129	100.531639			2
4.31	4.33	4.35	13414340	777.386605			3
4.38	4.40	4.42	1413607	56.689601			4
E 4.44	4.46	4.48	16064790	1118.73299			5
4.60	4.62	4.64	1582379	90.452133			6
Height Summation:			**37762508**				
Amount Avg CF:			**369.721773**	Linear:			
Aroclor-1260					6	4.35	
4.31	4.33	4.35	13414340	475.11749			1
4.44	4.46	4.48	16064790	482.498313			2
4.55	4.57	4.59	12866030	480.289333			3
4.90	4.92	4.94	9848794	478.296803			4
5.09	5.11	5.13	24496680	524.219067			5
5.35	5.37	5.39	16123850	515.794007			6
Height Summation:			**92814484**				
Amount Avg CF:			**492.702502**	Linear:			
Aroclor-1262					6	28.87	
E 4.71	4.73	4.75	7748192	239.049723			1
E 4.90	4.92	4.94	9848794	305.462641			2
E 5.09	5.11	5.13	24496680	399.439149			3
5.31	5.33	5.35	4760407	187.325851			4
E 5.35	5.37	5.39	16123850	394.188387			5
E 5.73	5.75	5.77	5730972	258.88841			6
Height Summation:			**68708895**				
Amount Avg CF:			**297.39236**	Linear:			
Aroclor-1268					6	113.17	
5.31	5.33	5.35	4760407	57.518206			1
5.35	5.37	5.39	16123850	192.421163			2
5.51	5.53	5.55	452005.6	6.27881			3
5.57	5.59	5.61	379967.4	21.830622			4
E 5.73	5.75	5.77	5730972	203.184591			5
5.93	5.95	5.97	1537203	7.17091			6
Height Summation:			**28984405**				
Amount Avg CF:			**81.400717**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			51	9.9		2.07	4	40	
Aroclor-1221			51	15.3	E	5.16	3	5	
Aroclor-1232			51	12.3	E	5.08	4	10	
Aroclor-1242			51	12.3	E	3.21	4	30	
Aroclor-1248			51	9.9		13.28	4	40	
Aroclor-1254			51	13.2	E	5.96	4	40	
Aroclor-1260			51	11.7		3.34	4	40	
Aroclor-1262			51	9.9	E	6.67	4	40	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **LCSA** 5/19/17 ACF LCS28138 Sample ID: AB **Batchnumber: 171380028A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342A
Result file : 20PCBS17137004.008.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 21, 2017 15:06:46
Instrument : CP20--17342B
Result file : 20PCBS17137004B.008.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			51	9.9		13.11	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: LCSA 5/19/17 ACF ABLCS28138 LCS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:06:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137004.008.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		2207	2185
2.105		5343	7324
2.131		375810	248516
2.202		7559	4736
2.22		10668	6660
2.311		104091	68693
2.389		109457	74973
2.425		2049	1389
2.458		3002	3897
2.504		1100	1132
2.542		1093	747
2.567		12159	8321
2.589		1258	1035
2.618		2010	1249
2.654		2953	2341
2.7		2563	1840
2.742		11446	15155
2.805		816	458
2.829		2640	1595
2.873		4099	2903
2.926	TCX	3349140	2265243
2.994		1208	733
3.078		169861	144704
3.108		3795	2043
3.135		195366	139075
3.183		941980	646064
3.232		1532	1199
3.257		2410	1308
3.276		118974	82747
3.315		3305	2039
3.335		1230	1663
3.397		935265	550837
3.414		422002	213991
3.451		106982	61863
3.467		35949	15025
3.483		82584	47762
3.513		1041646	767757
3.548		4782	2454
3.562		2883	1325
3.587		75101	52530
3.623		206084	119630
3.637		98438	47507
3.656		22533	10320
3.682		363784	243317
3.693		1149627	545405
3.729		1186669	883789
3.788		952938	754584
3.828		76346	53895
3.855		667595	491615
3.883		501883	418068
3.904		139818	75872
3.979		767251	560751
4.003		265511	168222
4.034		295347	211327

RT A	Compound A	Height A	Area A
4.07		801170	803147
4.109		234107	195942
4.154		38512	29856
4.194		41342	35614
4.228		869724	631548
4.248		222862	124115
4.272		219412	159721
4.338		122358	109899
4.382		873836	824123
4.416		25592	16333
4.478		10365	9145
4.519		118314	122279
4.574		81383	53718
4.589		188609	123716
4.635		561192	509150
4.68		857674	930836
4.718		197082	141264
4.757		1969943	1816004
4.801		15797	15835
4.846		281227	333871
4.878		26749	17010
4.904		339278	304229
4.957		2371339	2923360
5.007		406378	365857
5.05		1124006	1200476
5.092		16941	9985
5.129		211020	252588
5.165		2781244	2580906
5.187		78530	35743
5.227		1299168	1178367
5.27		810130	775198
5.371		73035	77684
5.392		1335589	1208810
5.451		677222	639277
5.491		368995	324559
5.531		89504	87178
5.576		531651	506635
5.631		3768884	3857879
5.718		3619	5703
5.838		2065819	2119521
5.878		143328	190839
5.89		167495	130209
6.024		63196	62295
6.086		65001	49482
6.109		319486	287331
6.218		3518	4061
6.266		794792	824916
6.311		55565	54398
6.466		215324	225076
6.505		3787	3281
6.611	DCB	2220589	2326281
7.073		747	589
7.629		872	3383
7.725		3423	7231
8.031		846	725
8.651		619	281

LANCASTER LABORATORIES

Sample Number: LCSA 5/19/17 ACF ABLCS28138 LCS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:06:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137004B.008.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		6349	6387
2.054		31906	21022
2.115		835755	504211
2.141		8267	4443
2.159		15996	9330
2.184		23938	15243
2.201		10430	7826
2.237		12663	13929
2.268		4632	3228
2.3		53036	44067
2.339		6540	4126
2.353		8238	3463
2.398		19377	20751
2.435		102128	62853
2.461		50281	35516
2.534		5558	3530
2.571		24720	13707
2.591		31434	17498
2.616	TCX	20707200	12169050
2.659		384144	296060
2.693		5267	2321
2.736		37967	21950
2.756		7139	4488
2.786		1045098	710655
2.847		1045060	644861
2.899		4976703	3044181
2.949		23528	16791
3.01		642300	405899
3.043		2640	945
3.055		2985	1303
3.084		4641	2061
3.105		6360309	6060246
3.157		719660	467903
3.178		395705	225102
3.203		527639	291330
3.227		6171209	4270329
3.263		265959	150661
3.31		1528098	798311
3.324		963449	465287
3.353		20798	9552
3.375		3621941	1673181
3.385		8225899	3443097
3.404		296122	101704
3.418		6713671	4383459
3.492		7722956	4670590
3.527		5198927	3082878
3.55		5699866	3083314
3.568		1698260	856366
3.62		4513	2234
3.653		6523762	4139927
3.676		2290640	1215303
3.697		2258532	1290551
3.726		1465672	767568
3.743		5633045	3208288

RT B	Compound B	Height B	Area B
3.783		1813488	1323432
3.831		337825	293179
3.853		1408855	852040
3.876		7430829	4645310
3.9		1560486	908510
3.92		225727	108833
3.938		787385	482431
3.974		5863672	3976548
4.008		293611	182200
4.023		475747	297538
4.071		10293	7994
4.084		45187	28404
4.11		91296	66708
4.117		199574	99238
4.151		27873	13592
4.175		1558263	1081327
4.217		1300663	804442
4.236		1447021	672437
4.249		3729129	2071204
4.275		2366595	2382667
4.327		13414340	9982971
4.374		191144	185154
4.397		1413607	924735
4.421		2968277	2109048
4.464		16064790	12190080
4.52		10090	10329
4.567		12866030	12192510
4.62		1582379	1337321
4.658		3291582	2798463
4.694		17239520	13759390
4.727		7748193	5405234
4.766		5556294	4312014
4.839		177240	134159
4.865		1823214	1810024
4.916		9848794	7913160
4.94		1280079	827388
4.99		5143647	4619099
5.026		2593625	2065605
5.056		1959073	1621026
5.088		810049	489745
5.11		24496680	19818160
5.151		488754	371344
5.184		949787	774624
5.259		5410	4247
5.302		252096	167356
5.326		4760407	3823532
5.371		16123850	16969680
5.488		8093	4736
5.526		452006	391001
5.57		413071	312544
5.595		379967	301482
5.643		2581879	2236435
5.749		5730973	4900138
5.781		327928	243481
5.948		1537203	1372277
6.045		2109	1000
6.107	DCB	15517740	13399490
6.537		4492	4635
6.634		3272	6820
6.786		22144	24411
6.882		1359	729
7.417		8594	26251
7.532		2524	4524
7.596		3604	6746
8.214		20171	38596
8.268		1702	1840

LCSA 5/19/17 ACF ABLCS28138 LCS 171380028A 10225 SW-846 8082

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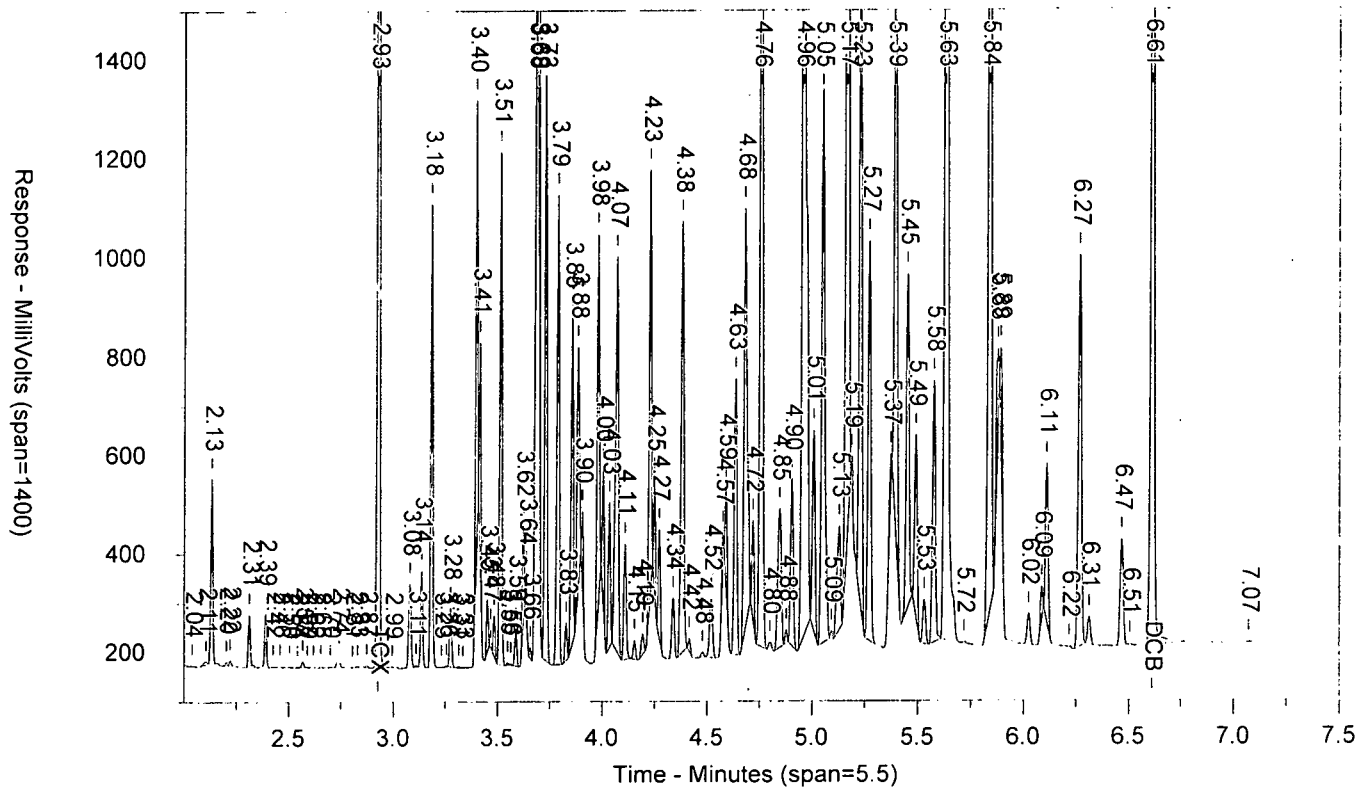

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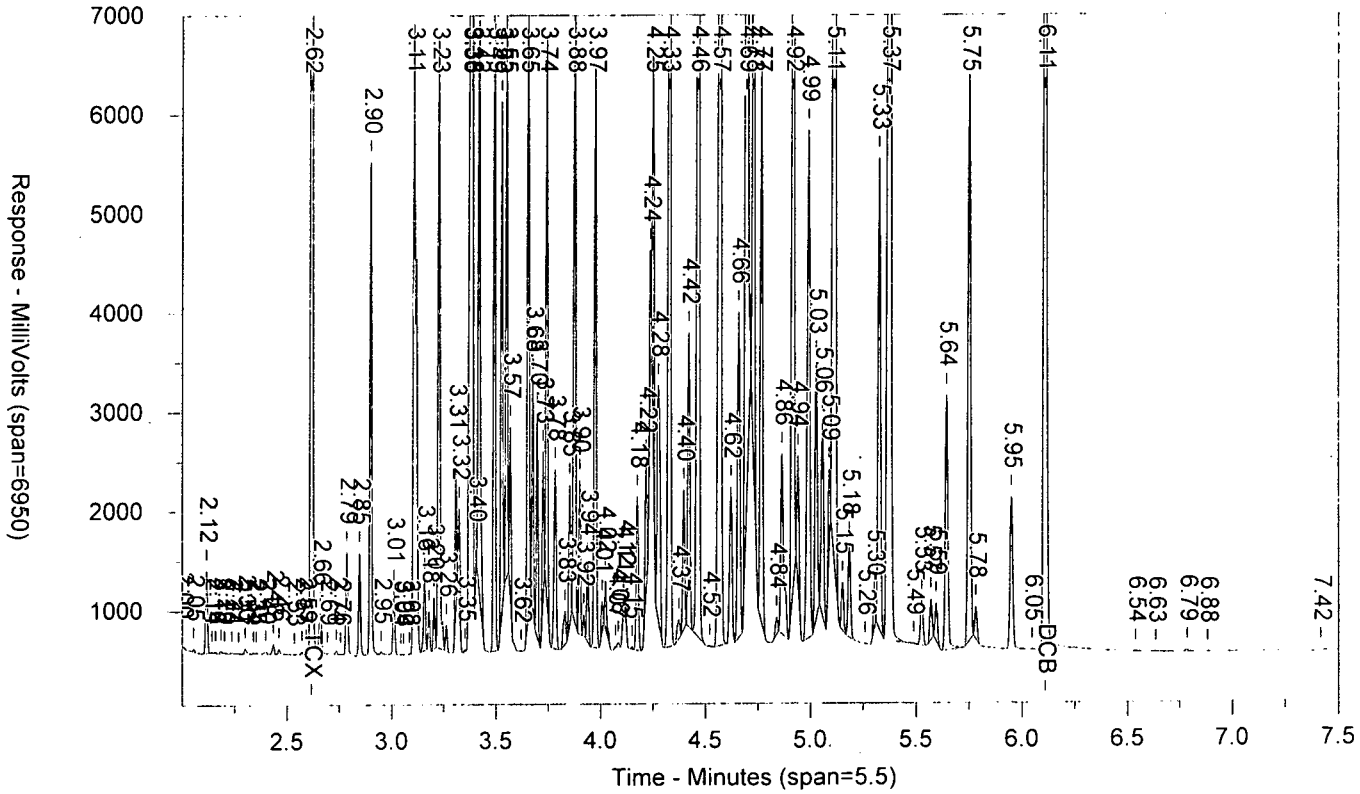

LANCASTER LABORATORIES

Sample Number: LCSA 5/19/17 ACF ABLCS28138 LCS 171380028A 10225 SW-846 8082
Injected On: 5/21/2017 3:06:46 PM Sample Weight: 10
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.926	3349140	29.471	TCX	2.616	20707200	29.954	TCX
6.611	2220589	32.268	DCB	6.107	15517740	31.852	DCB

Files:
Area File: 20pcbs17137004.008.RAW
Area File: 20pcbs17137004B.008.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/21/2017 3:15:29 PM
File Reported On: 5/21/2017 at 3:15:36 PM

LCSA 5/19/17 ACF ABLCS28138 LCS 171380028A 10225 SW-846 8082

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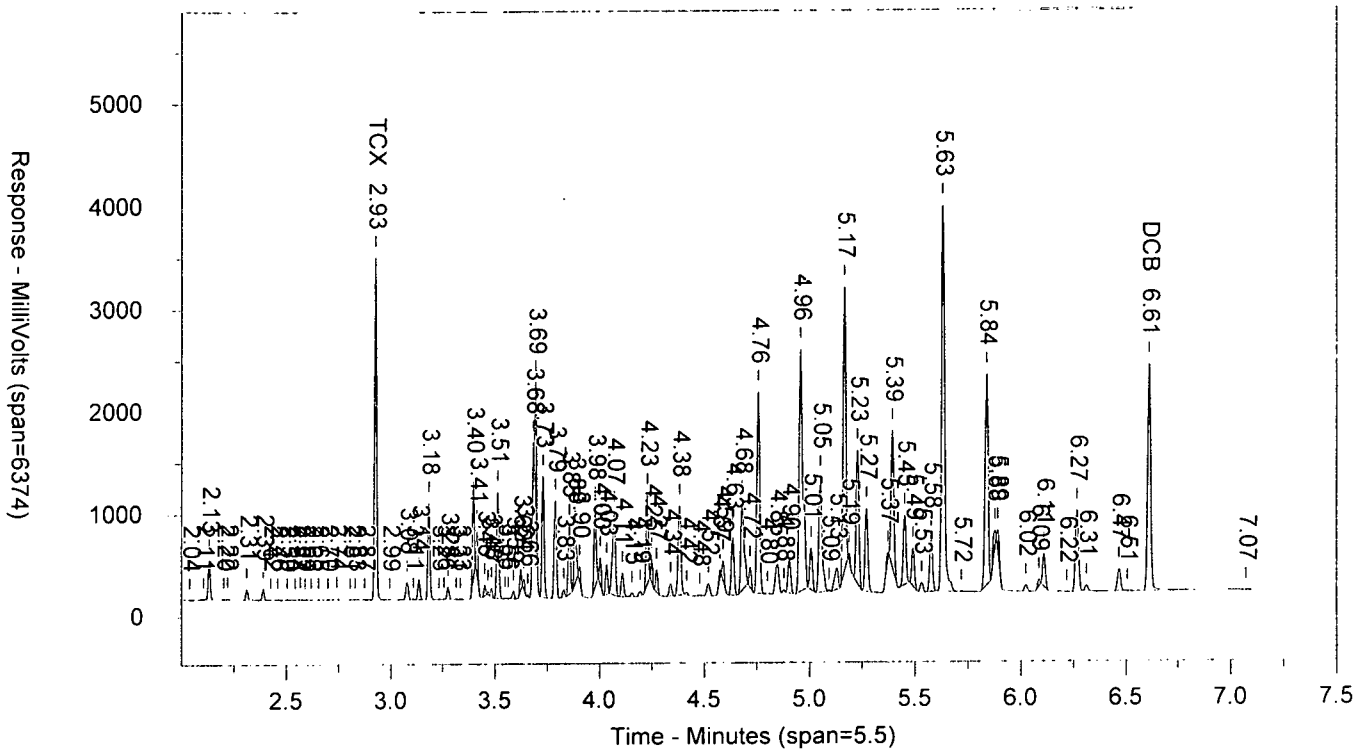

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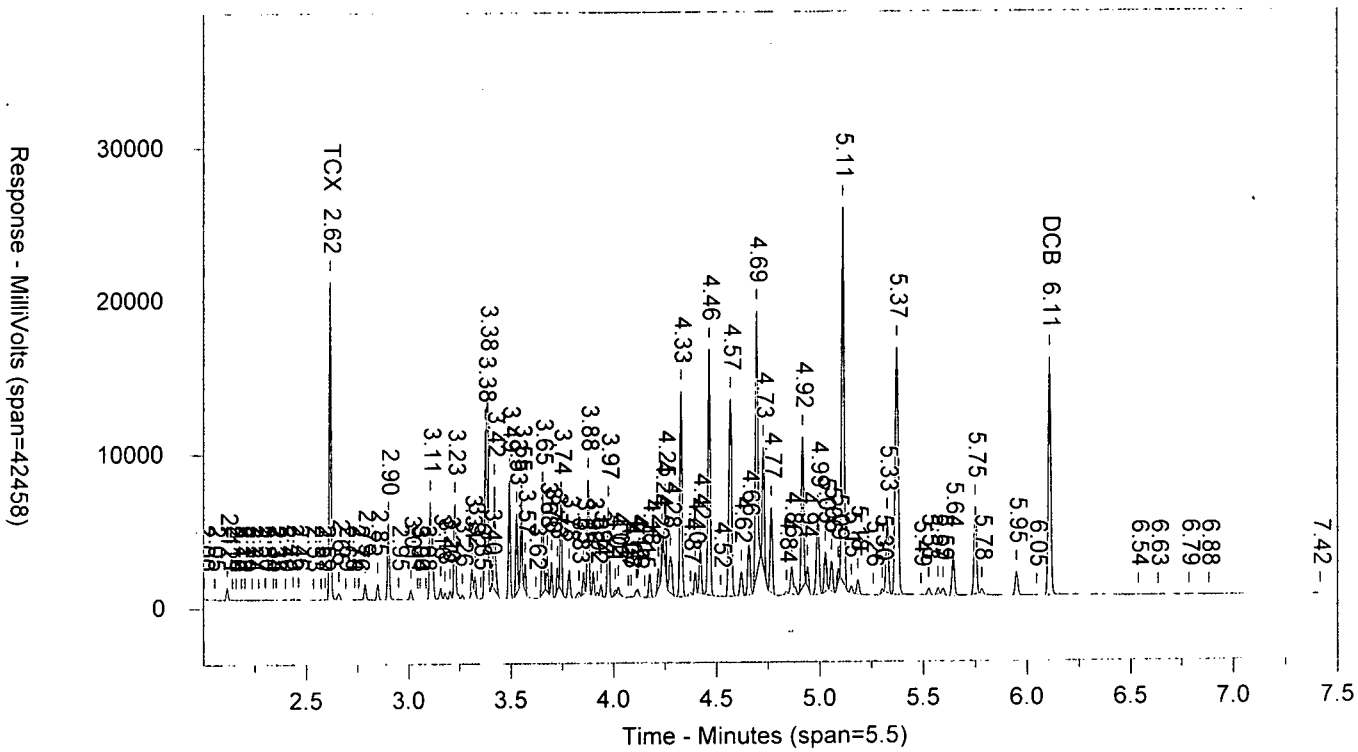

Extraction/Distillation/Digestion Logs

Polychlorinated Biphenyls (PCBs)

Organic Extraction Batchlog Assigned to: 9874 Kayla Yuditsky

Reviewed by: [illegible] Start Date: 5/19/17 Start time: 8:00

171380028A

Tech 1: Ky 9874 Tech 2:

Dept: 24	Prep Analysis: 14248 PCB 10g Sonication Ext										PCBs in Solids by 8082/3550
QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
8998235MS	42A01	10.17	~~SS1710324A~~	1.0	MS1712124B	1.0	10	Z	Z	314A	Soil, gritty
8998236MSD	42A01	10.46	SS1710324A		MS1712124B	1.0	10	Z	Z	314A	↓
BLANKA	PBLK28138	10.0	SS1710324A		—		10	Z	Z	Z	Na_2SO_4
LCSA	LCS28138	10.0	~~SS1710324A~~ ⑧		MS1712124B	1.0	10	Z	Z	Z	↓

Solvent Used	Lot No.
1:1 MeCl2/Acetone	185042717A
Filter Paper	9762804
Hexane	172893
Sodium Sulfate	17135A

⑧ Ky 9874 5/19/17

SS1713724A

Spike Solutions: MS1712124B ~~SS1710324A~~

Witness: N/A

PCB SPIKE

SW846 SURROGATE STANDARI

Sample #		Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
1	8998234BKG	42A01	10.18	~~SS1710324A~~	1.0	10	Z	Z	314a	Soil;Gritty;Grey	10225	1869	05/30/2017	N
2	8998237	42A02	10.11	SS1710324A		10	Z	Z	314A	Soil;Grey	10225	1869	05/30/2017	N
3	8998238	42A03	10.43	SS1710324A		10	Z	Z	314A	Soil;Gritty;Grey	10225	1869	05/30/2017	N
4	8998239	42A04	10.11	SS1710324A		10	Z	Z	314A	Soil;Gritty;Rocks;Black;Grey	10225	1869	05/30/2017	N
5	8998240	42A05	10.49	SS1710324A		10	Z	Z	314A	Soil;Gritty;Grey	10225	1869	05/30/2017	N
6	8998241	42A06	10.45	SS1710324A		10	Z	Z	314A	Soil;Sandy;Grey	10225	1869	05/30/2017	N
7	8998242	42A07	10.18	SS1710324A		10	Z	Z	314A	Soil;Gritty;Black;Grey	10225	1869	05/30/2017	N
8	8998243	42A08	10.43	SS1710324A		10	Z	Z	314A	Soil;Gritty;Black;Grey	10225	1869	05/30/2017	N
9	8998244	42A09	10.14	SS1710324A		10	Z	Z	314A	Soil;Gritty;Rocks;Black	10225	1869	05/30/2017	N
10	8998245	42A10	10.24	SS1710324A		10	Z	Z	314A	Soil;Gritty;Rocks;Black	10225	1869	05/30/2017	N
11	8998246	42A11	10.33	SS1710324A		10	Z	Z	314A	Soil;Gritty;Rocks;Black	10225	1869	05/30/2017	N
12	8998247	42A12	10.26	SS1710324A		10	Z	Z	314A	Soil;Gritty;Rocks;Black	10225	1869	05/30/2017	N
13	8998248	42A13	10.35	SS1710324A		10	Z	Z	314A	Soil;Gritty;Black;Grey	10225	1869	05/30/2017	N
14	8998249	42A14	10.32	SS1710324A		10	Z	Z	314A	Soil;Gritty;Black;Grey	10225	1869	05/30/2017	N
15	8998250	42A15	10.39	SS1710324A		10	Z	Z	314A	Soil;Sandy;Grey	10225	1869	05/30/2017	N
16	8998251	42A16	10.43	SS1710324A		10	Z	Z	314a	Soil;Sandy;Grey	10225	1869	05/30/2017	N
17	8998252	42A17	10.33	SS1710324A		10	Z	Z	314a	Soil;Gritty;Grey	10225	1869	05/30/2017	N
18	8998253	42A18	10.20	~~SS1710324A~~ ⑧		10	Z	Z	314A	Soil;Gritty;Sandy;Black;Grey	10225	1869	05/30/2017	N

ATE42 Page 580 of 587

Bench#	Bench#	Bench#		
Rack ID:		Work Station	Sonhood3	Micro Temp 100? —
Internal Standard		Balance #	17604	

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C		
S-bath ID b	98 C	S-bath ID	C	N-Evap	C	M-vap	C

171380028A

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.

Prep-Process Worksheet

Acid Cleanup

Prep: 14248 PCB 10g Sonication Ext

Batch No: 171380028A

Verified: MST 9065
Start Date: 5/19/17
Start Time: 12:00
Tech 1: Ky 9874
Tech 2:

	Sample #	QC	Aliquot (g)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	8998234		10	10				10225
2	8998235	MS						10225
3	8998236	MSD						10225
4	8998237							10225
5	8998238							10225
6	8998239							10225
7	8998240							10225
8	8998241							10225
9	8998242							10225
10	8998243							10225
11	8998244							10225
12	8998245							10225
13	8998246							10225
14	8998247							10225
15	8998248							10225
16	8998249							10225
17	8998250							10225
18	8998251							10225
19	8998252							10225
20	8998253							10225
21	BLANKA							
22	LCSA							

Kirby B. Turner
Associate Chemist

MAY 22 2017

N/A

Additional Comment:

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Sulfuric acid	166942

Prep-Process Worksheet

Florisil
Prep: 14248 PCB 10g Sonication Ext
Batch: 171380028A

Verified: KBT 20068
Start Date: 5/19/17
Start Time: 12:15
Tech 1: Key 9874
Tech 2:

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	8998234		2	2				10225
2	8998235	MS						10225
3	8998236	MSD						10225
4	8998237							10225
5	8998238							10225
6	8998239							10225
7	8998240							10225
8	8998241							10225
9	8998242							10225
10	8998243							10225
11	8998244							10225
12	8998245							10225
13	8998246							10225
14	8998247							10225
15	8998248							10225
16	8998249							10225
17	8998250							10225
18	8998251							10225
19	8998252							10225
20	8998253							10225
21	BLANKA							
22	LCSA							

Kirby B. Turner
Associate Chemist
MAY 22 2017

N/A

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Florisil	4140116

S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

The documented temperatures are NIST corrected.

Prep-Process Worksheet

Copper

Prep: 14248 PCB 10g Sonication Ext

Batch No: 171380028A

Verified: [illegible] 9665
Start Date: 5/19/17
Start Time: 13:00
Tech 1: Ky 9874
Tech 2:

Sample #		QC	Aliquot (g)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	8998234		2	2				10225
2	8998235	MS						10225
3	8998236	MSD						10225
4	8998237							10225
5	8998238							10225
6	8998239							10225
7	8998240							10225
8	8998241							10225
9	8998242							10225
10	8998243							10225
11	8998244							10225
12	8998245							10225
13	8998246							10225
14	8998247							10225
15	8998248							10225
16	8998249							10225
17	8998250							10225
18	8998251							10225
19	8998252							10225
20	8998253							10225
21	BLANKA							
22	LCSA							

Kirby B. Turner
Associate Chemist

MAY 22 2017

N/A

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Copper	617060BC

Moisture Data

eurofins | Lancaster Laboratories Environmental

CLIENT: **Stantec**
SDG: ATE42

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
8998234	42A01BKG
8998235	42A01MS
8998236	42A01MSD
8998237	42A02FD
8998238	42A03
8998239	42A04
8998240	42A05
8998241	42A06
8998242	42A07
8998243	42A08
8998244	42A09
8998245	42A10
8998246	42A11
8998247	42A12
8998248	42A13
8998249	42A14
8998250	42A15
8998251	42A16
8998252	42A17
8998253	42A18

COMMENTS:

Method defined actions are taken for any failed matrix QC.

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 17139820003A	Sample number(s): 8998234-8998238, 8998242-8998244				
Moisture	100		99-101		
Moisture	100		99-101		
Moisture Duplicate	100		99-101		
Batch number: 17139820003B	Sample number(s): 8998245-8998253				
Moisture	100		99-101		
Batch number: 17142820002A	Sample number(s): 8998241				
Moisture	100		99-101		
Batch number: 17143820004A	Sample number(s): 8998239				
Moisture	100		99-101		
Batch number: 17143820004B	Sample number(s): 8998240				
Moisture	100		99-101		

eurofins | Lancaster Laboratories Environmental

CLIENT: **Stantec**
SDG: ATE42

MOISTURE

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 17139820003A	Sample number(s): 8998234-8998238, 8998242-8998244			
Moisture	6.1	5.8	6*	5
Moisture	6.1	5.8	6*	5
Moisture Duplicate	6.1	5.8	6*	5
Batch number: 17139820003B	Sample number(s): 8998245-8998253			
Moisture	18.8	18.8	0	5
Batch number: 17142820002A	Sample number(s): 8998241			
Moisture	5.3	5.7	7*	5
Batch number: 17143820004A	Sample number(s): 8998239			
Moisture	4.4	4.5	1	5
Batch number: 17143820004B	Sample number(s): 8998240			
Moisture	5.7	5.9	4	5

* - Outside of specification

(1) - The result for one or both determinations was less than five times the LOQ.

Moisture Data Report

Batch #: 17139820003

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
8998234BKG	A	00111	1.1268	5.3481	6.1490	6.09	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998235MS	A	00118				6.09	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998236MSD	A	00118				6.09	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998236MSD	A	00121	1.1114	5.2916	6.0984	5.76	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998237FD	A	00111	1.1093	5.7091	6.4655	6.18	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998238	A	00111	1.1238	5.1891	5.9842	6.33	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998242	A	00111	1.1159	5.7667	6.6148	4.64	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998243	A	00111	1.1315	5.3292	6.1784	5.30	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998244	A	00111	1.1331	5.3929	6.1360	7.23	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998245BKG	B	00111	1.1285	5.6105	5.6851	18.78	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998245DUP	B	00111	1.1368	5.6601	5.7305	18.84	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998246	B	00111	1.1449	5.2857	5.9890	8.35	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998247	B	00111	1.1086	5.8338	6.2565	11.76	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998248	B	00111	1.1360	5.1230	5.9786	5.47	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998249	B	00111	1.1602	5.6246	6.4685	5.62	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998250	B	00111	1.1362	5.5664	6.4181	5.11	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998251	B	00111	1.1378	5.1783	6.0636	4.88	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998252	B	00111	1.1296	5.0745	5.8590	6.80	5/19/17 (835/LEB)	5/22/17 (236/CW)
8998253	B	00111	1.1526	5.4737	6.3486	5.07	5/19/17 (835/LEB)	5/22/17 (236/CW)
LCS 89.5% Std.		00111	1.1209	5.0633	1.6574	89.40	5/19/17 (835/LEB)	5/22/17 (236/CW)

Batch #: 17142820002

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
8998241BKG	A	00111	1.1141	8.8163	9.4600	5.34	5/22/17 (1201/SWF)	5/23/17 (236/CW)
8998241DUP	A	00111	1.1432	8.4141	9.0755	5.73	5/22/17 (1201/SWF)	5/23/17 (236/CW)
LCS 89.5% Std.		00111	1.1350	5.0119	1.6683	89.36	5/22/17 (1201/SWF)	5/23/17 (236/CW)

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Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
8998239BKG	A	00111	1.1588	5.2475	6.1732	4.44	5/23/17 (835/LEB)	5/24/17 (236/CW)
8998239DUP	A	00111	1.1354	5.3304	6.2258	4.50	5/23/17 (835/LEB)	5/24/17 (236/CW)
8998240BKG	B	00111	1.1283	5.8009	6.6011	5.66	5/23/17 (835/LEB)	5/24/17 (236/CW)
8998240DUP	B	00111	1.1099	5.7925	6.5602	5.91	5/23/17 (835/LEB)	5/24/17 (236/CW)
LCS 89.5% Std.		00111	1.1534	5.0234	1.6864	89.39	5/23/17 (835/LEB)	5/24/17 (236/CW)