# Analytical Data Package

**Prepared by:**

**Pace Analytical Services**

**Pace Project No.: 40158029**

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**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 23, 2018

Jim Ryan
Anchor QEA
290 Elwood Davis Road
Suite 340
Liverpool, NY 13088

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jared Acker, Environmental Standards
David Blye, Environmental Standards Inc.
Mark Meyers, Anchor QEA, LLC
Meg Michell, Environmental Standards Inc.



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## CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0



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## SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40158029001** | **SW5-170830-01-SPSH-01** | Tissue | 08/30/17 10:07 | 10/05/17 09:40 |
| **40158029002** | **SW5-170830-01-GOSH-01** | Tissue | 08/30/17 10:05 | 10/05/17 09:40 |
| **40158029003** | **SW4-170830-01-MMSH-01** | Tissue | 08/30/17 09:16 | 10/05/17 09:40 |
| **40158029004** | **SW4-170830-01-GOSH-01** | Tissue | 08/30/17 09:10 | 10/05/17 09:40 |
| **40158029005** | **AT1-170830-01-SPSH-01** | Tissue | 08/30/17 15:13 | 10/05/17 09:40 |
| **40158029006** | **AT1-170830-01-SFSH-06** | Tissue | 08/30/17 14:39 | 10/05/17 09:40 |
| **40158029007** | **AT1-170830-01-SFSH-05** | Tissue | 08/30/17 14:20 | 10/05/17 09:40 |
| **40158029008** | **AT1-170830-01-SFSH-04** | Tissue | 08/30/17 14:17 | 10/05/17 09:40 |
| **40158029009** | **AT1-170830-01-SFSH-03** | Tissue | 08/30/17 14:14 | 10/05/17 09:40 |
| **40158029010** | **AT1-170830-01-SFSH-02** | Tissue | 08/30/17 13:03 | 10/05/17 09:40 |
| **40158029011** | **AT1-170830-01-SFSH-01** | Tissue | 08/30/17 12:57 | 10/05/17 09:40 |
| **40158029012** | **AT1-170830-01-MIN-03** | Tissue | 08/30/17 15:08 | 10/05/17 09:40 |
| **40158029013** | **AT1-170830-01-MIN-02** | Tissue | 08/30/17 14:43 | 10/05/17 09:40 |
| **40158029014** | **AT1-170830-01-MIN-01** | Tissue | 08/30/17 13:07 | 10/05/17 09:40 |



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# SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| 40158029001 | SW5-170830-01-SPSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029002 | SW5-170830-01-GOSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029003 | SW4-170830-01-MMSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029004 | SW4-170830-01-GOSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029005 | AT1-170830-01-SPSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029006 | AT1-170830-01-SFSH-06 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029007 | AT1-170830-01-SFSH-05 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029008 | AT1-170830-01-SFSH-04 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029009 | AT1-170830-01-SFSH-03 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029010 | AT1-170830-01-SFSH-02 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029011 | AT1-170830-01-SFSH-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029012 | AT1-170830-01-MIN-03 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029013 | AT1-170830-01-MIN-02 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |
| 40158029014 | AT1-170830-01-MIN-01 | EPA 8082A Mod | BLM | 10 |
| | | Pace Lipid | ETB | 1 |



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# PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Method:** **EPA 8082A Mod**
**Description:** 8082A Modified GCT PCB
**Client:** General Electric
**Date:** May 23, 2018

**General Information:**
14 samples were analyzed for EPA 8082A Mod. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 287324

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- DUP (Lab ID: 1681911)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1681430)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

QC Batch: 287454

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- DUP (Lab ID: 1681910)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- SW5-170830-01-SPSH-01 (Lab ID: 40158029001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.



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# PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Method:** **EPA 8082A Mod**
**Description:** 8082A Modified GCT PCB
**Client:** General Electric
**Date:** May 23, 2018

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 287454

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157948007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1681908)
  - PCB-1242 (Aroclor 1242)

QC Batch: 287324

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157940015

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1681430)
  - PCB-1242 (Aroclor 1242)

QC Batch: 287596

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40158029010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1682675)
  - PCB-1242 (Aroclor 1242)

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 287737

1q: Sample was re-analyzed due to incorrect dilution.

- DUP (Lab ID: 1683454)
  - PCB-1016 (Aroclor 1016)



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# PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Method:** **Pace Lipid**
**Description:** Lipid
**Client:** General Electric
**Date:** May 23, 2018

**General Information:**
14 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: SW5-170830-01-SPSH-01** **Lab ID: 40158029001** Collected: 08/30/17 10:07 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<171** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<171** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<171** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<171** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **2660** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **1100** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **321J** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 11096-82-5 | |
| PCB, Total | **4090** | ug/kg | 751 | 171 | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 0 | % | 60-140 | | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 877-09-8 | S4 |
| Decachlorobiphenyl (S) | 0 | % | 60-140 | | 15 | 05/01/18 07:23 | 05/08/18 03:19 | 2051-24-3 | S4 |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **6.4** | % | 0.030 | 0.030 | 1 | | 05/01/18 14:24 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: SW5-170830-01-GOSH-01** **Lab ID: 40158029002** Collected: 08/30/17 10:05 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<45.7** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **368** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<45.7** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<45.7** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **854** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **332** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **124J** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 11096-82-5 | |
| PCB, Total | **1680** | ug/kg | 200 | 45.7 | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 97 | % | 60-140 | | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 877-09-8 | |
| Decachlorobiphenyl (S) | 101 | % | 60-140 | | 4 | 04/30/18 10:28 | 05/07/18 19:55 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **4.4** | % | 0.030 | 0.030 | 1 | | 04/30/18 14:43 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: SW4-170830-01-MMSH-01** **Lab ID: 40158029003** Collected: 08/30/17 09:16 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<57.0** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **274** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<57.0** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<57.0** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **1220** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **642** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **198J** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 11096-82-5 | |
| PCB, Total | **2340** | ug/kg | 250 | 57.0 | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 88 | % | 60-140 | | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 877-09-8 | |
| Decachlorobiphenyl (S) | 95 | % | 60-140 | | 5 | 05/04/18 07:32 | 05/08/18 18:34 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **3.1** | % | 0.030 | 0.030 | 1 | | 05/03/18 09:46 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: SW4-170830-01-GOSH-01** **Lab ID: 40158029004** Collected: 08/30/17 09:10 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod | | | Preparation Method: EPA 3541 | | | | | |
| PCB-1016 (Aroclor 1016) | **<56.8** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **277** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<56.8** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<56.8** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **890** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **334** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **97.0J** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 11096-82-5 | |
| PCB, Total | **1600** | ug/kg | 249 | 56.8 | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 94 | % | 60-140 | | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 877-09-8 | |
| Decachlorobiphenyl (S) | 99 | % | 60-140 | | 5 | 04/30/18 10:28 | 05/07/18 20:11 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **3.5** | % | 0.030 | 0.030 | 1 | | 04/30/18 14:44 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SPSH-01** **Lab ID: 40158029005** Collected: 08/30/17 15:13 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.9** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<22.9** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.9** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.9** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **176** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **103** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **92.0J** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 11096-82-5 | |
| PCB, Total | **371** | ug/kg | 100 | 22.9 | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 97 | % | 60-140 | | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 877-09-8 | |
| Decachlorobiphenyl (S) | 92 | % | 60-140 | | 2 | 05/01/18 07:23 | 05/08/18 03:34 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **2.0** | % | 0.030 | 0.030 | 1 | | 05/01/18 14:24 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-06** **Lab ID: 40158029006** Collected: 08/30/17 14:39 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<22.8** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **213** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **144** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **154** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 11096-82-5 | |
| PCB, Total | **511** | ug/kg | 99.9 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 90 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 877-09-8 | |
| Decachlorobiphenyl (S) | 88 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 07:32 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **3.2** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:15 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-05** **Lab ID: 40158029007** Collected: 08/30/17 14:20 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<22.8** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **264** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **152** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **148** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 11096-82-5 | |
| PCB, Total | **564** | ug/kg | 99.8 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 101 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 877-09-8 | |
| Decachlorobiphenyl (S) | 96 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 07:48 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **3.9** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:16 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-04** **Lab ID: 40158029008** Collected: 08/30/17 14:17 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<34.3** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **140J** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<34.3** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<34.3** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **356** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **191** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **192** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 11096-82-5 | |
| PCB, Total | **879** | ug/kg | 151 | 34.3 | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 98 | % | 60-140 | | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 877-09-8 | |
| Decachlorobiphenyl (S) | 99 | % | 60-140 | | 3 | 05/02/18 09:20 | 05/08/18 12:42 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **5.3** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:16 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-03** **Lab ID: 40158029009** Collected: 08/30/17 14:14 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<34.2** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **135J** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<34.2** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<34.2** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **478** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **516** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **192** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 11096-82-5 | |
| PCB, Total | **1320** | ug/kg | 150 | 34.2 | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 92 | % | 60-140 | | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 877-09-8 | |
| Decachlorobiphenyl (S) | 96 | % | 60-140 | | 3 | 05/02/18 09:20 | 05/08/18 13:16 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **4.7** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:16 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-02** **Lab ID: 40158029010** Collected: 08/30/17 13:03 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod | | Preparation Method: EPA 3541 | | | | | | |
| PCB-1016 (Aroclor 1016) | **<31.3** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **121J** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<31.3** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<31.3** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 53469-21-9 | M1 |
| PCB-1248 (Aroclor 1248) | **420** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **248** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **233** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 11096-82-5 | |
| PCB, Total | **1020** | ug/kg | 137 | 31.3 | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 99 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 877-09-8 | |
| Decachlorobiphenyl (S) | 98 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 13:32 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **5.6** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:16 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-SFSH-01** **Lab ID: 40158029011** Collected: 08/30/17 12:57 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **89.5J** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **297** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **180** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **152** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 11096-82-5 | |
| PCB, Total | **720** | ug/kg | 100 | 22.8 | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 94 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 877-09-8 | |
| Decachlorobiphenyl (S) | 92 | % | 60-140 | | 2 | 05/02/18 09:20 | 05/08/18 14:51 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **4.1** | % | 0.030 | 0.030 | 1 | | 05/02/18 10:17 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-MIN-03** **Lab ID: 40158029012** Collected: 08/30/17 15:08 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod | | Preparation Method: EPA 3541 | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **113** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **232** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **177** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **78.6J** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 11096-82-5 | |
| PCB, Total | **600** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 91 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 877-09-8 | |
| Decachlorobiphenyl (S) | 88 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 18:50 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **2.8** | % | 0.030 | 0.030 | 1 | | 05/03/18 09:46 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-MIN-02** **Lab ID: 40158029013** Collected: 08/30/17 14:43 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **267** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **214** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **90.2J** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 11096-82-5 | |
| PCB, Total | **571** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 90 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 877-09-8 | |
| Decachlorobiphenyl (S) | 86 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 19:21 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **2.1** | % | 0.030 | 0.030 | 1 | | 05/03/18 09:46 | | |



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# ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

**Sample: AT1-170830-01-MIN-01** **Lab ID: 40158029014** Collected: 08/30/17 13:07 Received: 10/05/17 09:40 Matrix: Tissue

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A Modified GCT PCB** | Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<22.8** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **282** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **231** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **93.2J** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 11096-82-5 | |
| PCB, Total | **606** | ug/kg | 100 | 22.8 | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 92 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 877-09-8 | |
| Decachlorobiphenyl (S) | 88 | % | 60-140 | | 2 | 05/04/18 07:32 | 05/08/18 19:37 | 2051-24-3 | |
| **Lipid** | Analytical Method: Pace Lipid | | | | | | | | |
| Lipid | **2.5** | % | 0.030 | 0.030 | 1 | | 05/03/18 09:46 | | |



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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287324 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158029002, 40158029004

METHOD BLANK: 1681428 | Matrix: Tissue
Associated Lab Samples: 40158029002, 40158029004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 14:38 | |
| Decachlorobiphenyl (S) | % | 80 | 60-140 | | 05/07/18 14:38 | |
| Tetrachloro-m-xylene (S) | % | 70 | 60-140 | | 05/07/18 14:38 | |

LABORATORY CONTROL SAMPLE: 1681429

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <11.4 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <11.4 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <11.4 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | 250 | 236 | 94 | 70-130 | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <11.4 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <11.4 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | | <11.4 | | | |
| Decachlorobiphenyl (S) | % | | | 86 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | 77 | 60-140 | |

MATRIX SPIKE SAMPLE: 1681430

| Parameter | Units | 40157940015 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <228 | | <228 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | 996J | | 1220 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | <228 | | <228 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | <228 | 250 | 1220 | 487 | 70-130 | M6 |
| PCB-1248 (Aroclor 1248) | ug/kg | 2930 | | 2890 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | 1260 | | 1200 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 288J | | 268J | | | |
| Decachlorobiphenyl (S) | % | | | | 0 | 60-140 | S4 |
| Tetrachloro-m-xylene (S) | % | | | | 0 | 60-140 | S4 |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

SAMPLE DUPLICATE: 1681432

| Parameter | Units | 40157948011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <114 | <114 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | 614 | 631 | 3 | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <114 | <114 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <114 | <114 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 1830 | 1870 | 2 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 785 | 805 | 3 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 187J | 196J | | 40 | |
| Decachlorobiphenyl (S) | % | 103 | 102 | 1 | | |
| Tetrachloro-m-xylene (S) | % | 97 | 96 | 1 | | |

SAMPLE DUPLICATE: 1681433

| Parameter | Units | 40158017020 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | <11.4 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | <11.4 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | <11.4 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | <11.4 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 23.5J | 21.8J | | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 22.2J | 20.0J | | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 25.7J | 24.0J | | 40 | |
| Decachlorobiphenyl (S) | % | 93 | 85 | 9 | | |
| Tetrachloro-m-xylene (S) | % | 103 | 95 | 8 | | |

SAMPLE DUPLICATE: 1681434

| Parameter | Units | 40158029004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <56.8 | <56.9 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | 277 | 291 | 5 | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <56.8 | <56.9 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <56.8 | <56.9 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 890 | 922 | 4 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 334 | 347 | 4 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 97.0J | 102J | | 40 | |
| Decachlorobiphenyl (S) | % | 99 | 102 | 4 | | |
| Tetrachloro-m-xylene (S) | % | 94 | 99 | 5 | | |

SAMPLE DUPLICATE: 1681911

| Parameter | Units | 40157940015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <228 | <228 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | 996J | 1040 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <228 | <228 | | 40 | |

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## QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

SAMPLE DUPLICATE: 1681911

| Parameter | Units | 40157940015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | ug/kg | <228 | <228 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 2930 | 2680 | 9 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 1260 | 1150 | 9 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 288J | 280J | | 40 | |
| Decachlorobiphenyl (S) | % | 0 | 0 | | | S4 |
| Tetrachloro-m-xylene (S) | % | 0 | 0 | | | S4 |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158029001, 40158029005

METHOD BLANK: 1681906 | Matrix: Tissue
Associated Lab Samples: 40158029001, 40158029005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <11.4 | 50.0 | 11.4 | 05/07/18 21:14 | |
| Decachlorobiphenyl (S) | % | 90 | 60-140 | | 05/07/18 21:14 | |
| Tetrachloro-m-xylene (S) | % | 77 | 60-140 | | 05/07/18 21:14 | |

LABORATORY CONTROL SAMPLE: 1681907

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <11.4 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <11.4 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <11.4 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | 250 | 240 | 96 | 70-130 | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <11.4 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <11.4 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | | <11.4 | | | |
| Decachlorobiphenyl (S) | % | | | 92 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | 80 | 60-140 | |

MATRIX SPIKE SAMPLE: 1681908

| Parameter | Units | 40157948007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <57.1 | | <105 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | <57.1 | | <105 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | <57.1 | | <105 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | <57.1 | 460 | 649 | 141 | 70-130 | M1 |
| PCB-1248 (Aroclor 1248) | ug/kg | 1190 | | 1410 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | 685 | | 676 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 120J | | 119J | | | |
| Decachlorobiphenyl (S) | % | | | | 98 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | | 88 | 60-140 | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

SAMPLE DUPLICATE: 1681909

| Parameter | Units | 40157948007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <57.1 | <65.5 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <57.1 | <65.5 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <57.1 | <65.5 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <57.1 | <65.5 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 1190 | 1200 | 1 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 685 | 694 | 1 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 120J | 123J | | 40 | |
| Decachlorobiphenyl (S) | % | 106 | 103 | 11 | | |
| Tetrachloro-m-xylene (S) | % | 103 | 99 | 9 | | |

SAMPLE DUPLICATE: 1681910

| Parameter | Units | 40158017006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <228 | <228 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <228 | <228 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <228 | <228 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <228 | <228 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 3690 | 3260 | 13 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 2100 | 1840 | 13 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 320J | 292J | | 40 | |
| Decachlorobiphenyl (S) | % | 0 | 0 | | | S4 |
| Tetrachloro-m-xylene (S) | % | 0 | 0 | | | S4 |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287596 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158029006, 40158029007, 40158029008, 40158029009, 40158029010, 40158029011

METHOD BLANK: 1682672 | Matrix: Tissue
Associated Lab Samples: 40158029006, 40158029007, 40158029008, 40158029009, 40158029010, 40158029011

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 03:50 | |
| Decachlorobiphenyl (S) | % | 76 | 60-140 | | 05/08/18 03:50 | |
| Tetrachloro-m-xylene (S) | % | 66 | 60-140 | | 05/08/18 03:50 | |

LABORATORY CONTROL SAMPLE: 1682673

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <11.4 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <11.4 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <11.4 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | 250 | 229 | 91 | 70-130 | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <11.4 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <11.4 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | | <11.4 | | | |
| Decachlorobiphenyl (S) | % | | | 87 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | 76 | 60-140 | |

MATRIX SPIKE SAMPLE: 1682675

| Parameter | Units | 40158029010 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <31.3 | | <32.8 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | 121J | | 259 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | <31.3 | | <32.8 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | <31.3 | 359 | 514 | 143 | 70-130 | M1 |
| PCB-1248 (Aroclor 1248) | ug/kg | 420 | | 674 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | 248 | | 294 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 233 | | 237 | | | |
| Decachlorobiphenyl (S) | % | | | | 96 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | | 101 | 60-140 | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

SAMPLE DUPLICATE: 1682674

| Parameter | Units | 40157948010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <188 | <181 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <188 | <181 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <188 | <181 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <188 | <181 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 3860 | 4010 | 4 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 1980 | 2060 | 4 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 257J | 264J | | 40 | |
| Decachlorobiphenyl (S) | % | 87 | 96 | 6 | | |
| Tetrachloro-m-xylene (S) | % | 81 | 93 | 10 | | |

SAMPLE DUPLICATE: 1682677

| Parameter | Units | 40158029010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <31.3 | <35.4 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | 121J | 115J | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <31.3 | <35.4 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <31.3 | <35.4 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 420 | 400 | 5 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 248 | 234 | 6 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 233 | 222 | 5 | 40 | |
| Decachlorobiphenyl (S) | % | 98 | 90 | 3 | | |
| Tetrachloro-m-xylene (S) | % | 99 | 91 | 4 | | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287737 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158029003, 40158029012, 40158029013, 40158029014

METHOD BLANK: 1683452 | Matrix: Tissue
Associated Lab Samples: 40158029003, 40158029012, 40158029013, 40158029014

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <11.4 | 50.0 | 11.4 | 05/08/18 15:07 | |
| Decachlorobiphenyl (S) | % | 85 | 60-140 | | 05/08/18 15:07 | |
| Tetrachloro-m-xylene (S) | % | 77 | 60-140 | | 05/08/18 15:07 | |

LABORATORY CONTROL SAMPLE: 1683453

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <11.4 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <11.4 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <11.4 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | 250 | 256 | 103 | 70-130 | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <11.4 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <11.4 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | | <11.4 | | | |
| Decachlorobiphenyl (S) | % | | | 96 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | 90 | 60-140 | |

MATRIX SPIKE SAMPLE: 1683455

| Parameter | Units | 40158017011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | | <32.2 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | | <32.2 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | | <32.2 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | 705 | 709 | 101 | 70-130 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 50.0J | | 495 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | 35.9J | | 111J | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 29.2J | | 41.4J | | | |
| Decachlorobiphenyl (S) | % | | | | 81 | 60-140 | |
| Tetrachloro-m-xylene (S) | % | | | | 87 | 60-140 | |

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## REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

SAMPLE DUPLICATE: 1683454

| Parameter | Units | 40157948006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <101 | <83.9 | | 40 | 1q |
| PCB-1221 (Aroclor 1221) | ug/kg | <101 | <83.9 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <101 | <83.9 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <101 | <83.9 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 2540 | 2510 | 1 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 1490 | 1470 | 1 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 216J | 215J | | 40 | |
| Decachlorobiphenyl (S) | % | 94 | 94 | 36 | | |
| Tetrachloro-m-xylene (S) | % | 90 | 88 | 39 | | |

SAMPLE DUPLICATE: 1683456

| Parameter | Units | 40158017011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <11.4 | <26.3 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <11.4 | <26.3 | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <11.4 | <26.3 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <11.4 | <26.3 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 50.0J | 53.1J | | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 35.9J | 38.1J | | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 29.2J | 37.2J | | 40 | |
| Decachlorobiphenyl (S) | % | 87 | 93 | 85 | | |
| Tetrachloro-m-xylene (S) | % | 104 | 103 | 78 | | |

SAMPLE DUPLICATE: 1683457

| Parameter | Units | 40158029012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <22.8 | <32.5 | | 40 | |
| PCB-1221 (Aroclor 1221) | ug/kg | 113 | 122J | | 40 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <22.8 | <32.5 | | 40 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <22.8 | <32.5 | | 40 | |
| PCB-1248 (Aroclor 1248) | ug/kg | 232 | 236 | 2 | 40 | |
| PCB-1254 (Aroclor 1254) | ug/kg | 177 | 176 | 0 | 40 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 78.6J | 82.9J | | 40 | |
| Decachlorobiphenyl (S) | % | 88 | 86 | 33 | | |
| Tetrachloro-m-xylene (S) | % | 91 | 89 | 33 | | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287437 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158029002, 40158029004

METHOD BLANK: 1681739 | Matrix: Tissue
Associated Lab Samples: 40158029002, 40158029004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | <0.030 | 0.030 | 0.030 | 04/30/18 14:40 | |

MATRIX SPIKE SAMPLE: 1688378

| Parameter | Units | 40157940015 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Lipid | % | 3.7 | | 3.8 | | | |

SAMPLE DUPLICATE: 1681741

| Parameter | Units | 40157940015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 3.7 | 3.7 | 1 | 40 | |

SAMPLE DUPLICATE: 1681743

| Parameter | Units | 40157948011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 2.7 | 2.8 | 6 | 40 | |

SAMPLE DUPLICATE: 1681744

| Parameter | Units | 40158017020 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 2.9 | 2.6 | 9 | 40 | |

SAMPLE DUPLICATE: 1681745

| Parameter | Units | 40158029004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 3.5 | 3.7 | 4 | 40 | |

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## REPORT OF LABORATORY ANALYSIS

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287559 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158029001, 40158029005

METHOD BLANK: 1682357 | Matrix: Tissue
Associated Lab Samples: 40158029001, 40158029005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | <0.030 | 0.030 | 0.030 | 05/01/18 14:21 | |

MATRIX SPIKE SAMPLE: 1683590

| Parameter | Units | 40157948007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Lipid | % | 4.7 | | 4.6 | | | |

SAMPLE DUPLICATE: 1682360

| Parameter | Units | 40157948007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 4.7 | 4.7 | 1 | 40 | |

SAMPLE DUPLICATE: 1682361

| Parameter | Units | 40158017006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 1.7 | 1.5 | 11 | 40 | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287607 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40158029006, 40158029007, 40158029008, 40158029009, 40158029010, 40158029011

METHOD BLANK: 1682697 Matrix: Tissue
Associated Lab Samples: 40158029006, 40158029007, 40158029008, 40158029009, 40158029010, 40158029011

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 0.050 | 0.030 | 0.030 | 05/02/18 10:13 | |

MATRIX SPIKE SAMPLE: 1682700

| Parameter | Units | 40158029010 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Lipid | % | 5.6 | | 5.5 | | | |

SAMPLE DUPLICATE: 1682699

| Parameter | Units | 40157948010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 3.7 | 3.7 | 0 | 40 | |

SAMPLE DUPLICATE: 1682701

| Parameter | Units | 40158029010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 5.6 | 5.5 | 2 | 40 | |

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# QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

QC Batch: 287776 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40158029003, 40158029012, 40158029013, 40158029014

METHOD BLANK: 1683598 Matrix: Tissue
Associated Lab Samples: 40158029003, 40158029012, 40158029013, 40158029014

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | <0.030 | 0.030 | 0.030 | 05/03/18 09:44 | |

MATRIX SPIKE SAMPLE: 1683601

| Parameter | Units | 40158017011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Lipid | % | 4.7 | | 4.6 | | | |

SAMPLE DUPLICATE: 1683600

| Parameter | Units | 40157948006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 5.1 | 5.2 | 2 | 40 | |

SAMPLE DUPLICATE: 1683602

| Parameter | Units | 40158017011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 4.7 | 4.6 | 2 | 40 | |

SAMPLE DUPLICATE: 1683603

| Parameter | Units | 40158029012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Lipid | % | 2.8 | 2.7 | 2 | 40 | |

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# QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| 1q | Sample was re-analyzed due to incorrect dilution. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution. |



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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158029

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40158029001** | **SW5-170830-01-SPSH-01** | EPA 3541 | 287454 | EPA 8082A Mod | 287632 |
| **40158029002** | **SW5-170830-01-GOSH-01** | EPA 3541 | 287324 | EPA 8082A Mod | 287513 |
| **40158029003** | **SW4-170830-01-MMSH-01** | EPA 3541 | 287737 | EPA 8082A Mod | 287881 |
| **40158029004** | **SW4-170830-01-GOSH-01** | EPA 3541 | 287324 | EPA 8082A Mod | 287513 |
| **40158029005** | **AT1-170830-01-SPSH-01** | EPA 3541 | 287454 | EPA 8082A Mod | 287632 |
| **40158029006** | **AT1-170830-01-SFSH-06** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029007** | **AT1-170830-01-SFSH-05** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029008** | **AT1-170830-01-SFSH-04** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029009** | **AT1-170830-01-SFSH-03** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029010** | **AT1-170830-01-SFSH-02** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029011** | **AT1-170830-01-SFSH-01** | EPA 3541 | 287596 | EPA 8082A Mod | 287775 |
| **40158029012** | **AT1-170830-01-MIN-03** | EPA 3541 | 287737 | EPA 8082A Mod | 287881 |
| **40158029013** | **AT1-170830-01-MIN-02** | EPA 3541 | 287737 | EPA 8082A Mod | 287881 |
| **40158029014** | **AT1-170830-01-MIN-01** | EPA 3541 | 287737 | EPA 8082A Mod | 287881 |
| **40158029001** | **SW5-170830-01-SPSH-01** | Pace Lipid | 287559 | | |
| **40158029002** | **SW5-170830-01-GOSH-01** | Pace Lipid | 287437 | | |
| **40158029003** | **SW4-170830-01-MMSH-01** | Pace Lipid | 287776 | | |
| **40158029004** | **SW4-170830-01-GOSH-01** | Pace Lipid | 287437 | | |
| **40158029005** | **AT1-170830-01-SPSH-01** | Pace Lipid | 287559 | | |
| **40158029006** | **AT1-170830-01-SFSH-06** | Pace Lipid | 287607 | | |
| **40158029007** | **AT1-170830-01-SFSH-05** | Pace Lipid | 287607 | | |
| **40158029008** | **AT1-170830-01-SFSH-04** | Pace Lipid | 287607 | | |
| **40158029009** | **AT1-170830-01-SFSH-03** | Pace Lipid | 287607 | | |
| **40158029010** | **AT1-170830-01-SFSH-02** | Pace Lipid | 287607 | | |
| **40158029011** | **AT1-170830-01-SFSH-01** | Pace Lipid | 287607 | | |
| **40158029012** | **AT1-170830-01-MIN-03** | Pace Lipid | 287776 | | |
| **40158029013** | **AT1-170830-01-MIN-02** | Pace Lipid | 287776 | | |
| **40158029014** | **AT1-170830-01-MIN-01** | Pace Lipid | 287776 | | |



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40158029

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

**COC ID:** COC170830-T11-03
**Sample Custodian:** SA
**Lab:** Pace - Green Bay

**Client:** General Electric Company
**Project:** Hudson River Remedial Action Monitoring Program

| COC Sample Number | Sampling Event ID | Field Sample ID | Sample Date | Sample Time | MS/LD | # CONTAINERS | Media* | Prep** | Composite | EPA Split | Total PCBs NE013_09 | Total PCBs SW846 8082A | Percent Lipid (S-GB-O-068) | Fillet Weight (S-GB-L-009) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | SW5-170830-01 | SW5-170830-01-SPSH-01 | 8/30/2017 | 10:07 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 002 | SW5-170830-01 | SW5-170830-01-GOSH-01 | 8/30/2017 | 10:05 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 003 | SW4-170830-01 | SW4-170830-01-MMSH-01 | 8/30/2017 | 9:16 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 004 | SW4-170830-01 | SW4-170830-01-GOSH-01 | 8/30/2017 | 9:10 | ☑ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 005 | AT1-170830-01 | AT1-170830-01-SPSH-01 | 8/30/2017 | 15:13 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 006 | AT1-170830-01 | AT1-170830-01-SFSH-06 | 8/30/2017 | 14:39 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 007 | AT1-170830-01 | AT1-170830-01-SFSH-05 | 8/30/2017 | 14:20 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 008 | AT1-170830-01 | AT1-170830-01-SFSH-04 | 8/30/2017 | 14:17 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 009 | AT1-170830-01 | AT1-170830-01-SFSH-03 | 8/30/2017 | 14:14 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 010 | AT1-170830-01 | AT1-170830-01-SFSH-02 | 8/30/2017 | 13:03 | ☑ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |

QC 10/4/17

1-ziploch

**Comments:**

| Relinquished by: | Received by: | Relinquished by: | Received by: | Relinquished by: | Received by: |
|---|---|---|---|---|---|
| Signature [signature] | Signature [signature] | Signature [signature] | Signature [signature] | Signature [signature] VIA FED EX → | Signature |
| Print Name Jim Ryan | Print Name D. Burbrick | Print Name D. Burbrick | Print Name D. BIRTIG | Print Name D. BIRTIG | Print Name |
| Company Anchor QEA | Company PACE | Company PACE | Company PACE T: -0.6°C | Company PACE | Company Fedex |
| Date/Time 8/31/17 | Date/Time 8/31/17 950 | Date/Time 8/31/17 1120 | Date/Time 8/31/17 11:20 | Date/Time 10/4/17 16:00 | Date/Time 10/5/17 0940 |

Alex Alcotter Pace 10/5/17 0940

**Date Printed:** 8/30/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

40158029

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

**COC ID:** COC170830-T11-03
**Sample Custodian:** SA
**Lab:** Pace - Green Bay

**Client:** General Electric Company
**Project:** Hudson River Remedial Action Monitoring Program

| COC Sample Number | Sampling Event ID | Field Sample ID | Sample Date | Sample Time | MS/LD | # CONTAINERS | Media* | Prep** | Composite | EPA Split | Total PCBs NE013_09 | Total PCBs SW846 8082A | Percent Lipid (S-GB-O-068) | Fillet Weight (S-GB-L-009) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 011 | AT1-170830-01 | AT1-170830-01-SFSH-01 | 8/30/2017 | 12:57 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 012 | AT1-170830-01 | AT1-170830-01-MIN-03 | 8/30/2017 | 15:08 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 013 | AT1-170830-01 | AT1-170830-01-MIN-02 | 8/30/2017 | 14:43 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |
| 014 | AT1-170830-01 | AT1-170830-01-MIN-01 | 8/30/2017 | 13:07 | ☐ | 1 | F | WH | ☑ | ☐ | ☐ | ☑ | ☑ | ☐ | |

OK dmp 10/(1/17

1- ziploc

**Comments:**

| Relinquished by: | Received by: | Relinquished by: | Received by: | Relinquished by: | Received by: |
|---|---|---|---|---|---|
| Signature J. R | Signature [illegible] | Signature [illegible] | Signature [illegible] | Signature [illegible] VIA FEDEX | Signature |
| Print Name Jim Ryan | Print Name D. Bubriak | Print Name D. Bubriak | Print Name D. Bittner | Print Name D. Bittner | Print Name |
| Company Anchor QEA | Company PACE | Company PACE | Company PACE T: -0.6°C | Company PACE | Company Fedex |
| Date/Time 8/31/17 | Date/Time 8/31/17 950 | Date/Time 8/31/17 1120 | Date/Time 8/31/17 11:20 | Date/Time 10/4/17 16:00 | Date/Time 10/5/17 0940 |

Alex Am Pace 10/5/17 0940

**Date Printed: 8/30/2017** * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 2 of 2**

# Sample Condition Upon Receipt

Pace Analytical

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO#: 40158029

40158029

**Client Name:** GE

**Courier:** ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: _____

**Tracking #:** 4099947048 03

**Custody Seal on Cooler/Box Present:** ☑ yes ☐ no Seals intact: ☑ yes ☐ no

**Custody Seal on Samples Present:** ☐ yes ☑ no Seals intact: ☐ yes ☐ no

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

**Thermometer Used** SR-70 **Type of Ice** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: 6 /Corr: 6 **Biological Tissue is Frozen:** ☑ yes ☐ no

**Temp Blank Present:** ☐ yes ☑ no CAG 10/27/17

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

**Person examining contents:**
Date: 10/5/17
Initials: CAG

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| - VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No ☐N/A | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No ☐N/A | 9. |
| -Pace Containers Used: | ☐Yes ☑No ☐N/A | |
| -Pace IR Containers Used: | ☐Yes ☐No ☑N/A | |
| Containers Intact: | ☑Yes ☐No ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☑N/A | 11. |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: B | | |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.) | ☐Yes ☐No ☑N/A | 13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | ☐Yes ☐No ☑N/A | |
| exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: | ☐Yes ☑No | Initial when completed / Lab Std #ID of preservative / Date/Time: |
| Headspace in VOA Vials ( >6mm): | ☐Yes ☐No ☑N/A | 14. |
| Trip Blank Present: | ☐Yes ☐No ☑N/A | 15. |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☑N/A | |
| Pace Trip Blank Lot # (if purchased): _____ | | |

**Client Notification/ Resolution:** If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

**Project Manager Review:** AL for TN **Date:** 10-5-17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

# CASE NARRATIVE - PCB ANALYSIS

**Lab Report Number (SDG):** 40158029
**Client:** GENERAL ELECTRIC COMPANY
**Project Name:** HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
**Project Number:** N/A

**1. RECEIPT**

Samples were received on ice at or below 6°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

**2. HOLDING TIMES**

**A. Sample Preparation:** All method and QAPP specified holding times were met.
**B. Sample Analysis:** All method and QAPP specified holding times were met.

**3. METHOD**

**Preparation:** SW-846 3541
**Analysis:** SW-846 8082A Modified

**4. PREPARATION**

Sample preparation proceeded normally. All samples went through florisil and acid clean-up procedures prior to analysis.

**5. ANALYSIS**

**A. Calibration:**
1. **Initial verification:** All method acceptance criteria were met.
2. **Continuing verification:** All method acceptance criteria were met.

**B. Blanks:**
1. **Method:** All acceptance criteria were met for the associated method blank.

**C. Surrogates:** All QAPP specified acceptance criteria were met. Surrogate levels are below the lowest calibration level when dilution factors are greater than 10. In the cases where the surrogates are not applicable due to sample dilution, the “S4” data qualifier is applied to the final report.

**D. Spikes:**
1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample AT1-170830-01-SFSH-02 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to the parent results on the final report.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 287324, 287454, and 287737, and one portion of each parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met with the following exceptions. MS 1681430 required a 1:20 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MS are not applicable. The “M6” data qualifier was applied to MS 1681430 on the final report. MS 1681908 required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to MS 1681908 on the final report.

**E. Samples:** Sample analyses proceeded normally. ZB-1ms is the quantitation column.

**F. Sample Duplicate:** Samples SW4-170830-01-GOSH-01, AT1-170830-01-SFSH-02, and AT1-170830,01-MIN-03 were designated as the duplicates for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

**G. Dilutions:** All samples of this SDG were analyzed at a dilution to bring the level of Aroclors within the instrument calibration range.

**H. Reanalysis:** None required for this SDG.

I. **Comments:** Due to rounding differences in the software programs used, the values found on the quantitation reports may not match the values found on the sample Form 1s.

Lipids were detected in method blank 1682697 above the QAPP specified reporting limit. All associated sample results were greater than 10 times the blank value; therefore, no corrective action was taken.

I certify that this data package is in compliance with the terms and conditions agreed to by **Pace Analytical Services, LLC**, and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this completed data package:

Signed: Leigh A Begalske Date: 05/23/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

PCB - FORM II SVOA-1
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

| LAB SAMPLE ID | SAMPLE NAME | DCBP | TCMX |
|---|---|---|---|
| 1681428 | 1681428BLANK | 80 | 70 |
| 1681429 | 1681429LCS | 86 | 77 |
| 1681434 | 1681434DUP | 102 | 99 |
| 40158029002 | SW5-170830-01-GOSH-01 | 101 | 97 |
| 40158029004 | SW4-170830-01-GOSH-01 | 99 | 94 |

| | QC LIMITS |
|---|---|
| (DCBP) = Decachlorobiphenyl (S) | (60-140) |
| (TCMX) = Tetrachloro-m-xylene (S) | (60-140) |

* Values outside of QC Limits

PCB - FORM II SVOA-2
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

| LAB SAMPLE ID | SAMPLE NAME | DCBP | TCMX |
|---|---|---|---|
| 1681906 | 1681906BLANK | 90 | 77 |
| 1681907 | 1681907LCS | 92 | 80 |
| 40158029001 | SW5-170830-01-SPSH-01 | 0* | 0* |
| 40158029005 | AT1-170830-01-SPSH-01 | 92 | 97 |

| | QC LIMITS |
|---|---|
| (DCBP) = Decachlorobiphenyl (S) | (60-140) |
| (TCMX) = Tetrachloro-m-xylene (S) | (60-140) |

* Values outside of QC Limits

PCB - FORM II SVOA-3
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

| LAB SAMPLE ID | SAMPLE NAME | DCBP | TCMX |
|---|---|---|---|
| 1682672 | 1682672BLANK | 76 | 66 |
| 1682673 | 1682673LCS | 87 | 76 |
| 1682675 | 1682675MS | 96 | 101 |
| 1682677 | 1682677DUP | 90 | 91 |
| 40158029006 | AT1-170830-01-SFSH-06 | 88 | 90 |
| 40158029007 | AT1-170830-01-SFSH-05 | 96 | 101 |
| 40158029008 | AT1-170830-01-SFSH-04 | 99 | 98 |
| 40158029009 | AT1-170830-01-SFSH-03 | 96 | 92 |
| 40158029010 | AT1-170830-01-SFSH-02 | 98 | 99 |
| 40158029011 | AT1-170830-01-SFSH-01 | 92 | 94 |

| | QC LIMITS |
|---|---|
| (DCBP) = Decachlorobiphenyl (S) | (60-140) |
| (TCMX) = Tetrachloro-m-xylene (S) | (60-140) |

* Values outside of QC Limits

PCB - FORM II SVOA-4
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

| LAB SAMPLE ID | SAMPLE NAME | DCBP | TCMX |
|---|---|---|---|
| 1683452 | 1683452BLANK | 85 | 77 |
| 1683453 | 1683453LCS | 96 | 90 |
| 1683457 | 1683457DUP | 86 | 89 |
| 40158029003 | SW4-170830-01-MMSH-01 | 95 | 88 |
| 40158029012 | AT1-170830-01-MIN-03 | 88 | 91 |
| 40158029013 | AT1-170830-01-MIN-02 | 86 | 90 |
| 40158029014 | AT1-170830-01-MIN-01 | 88 | 92 |

| | QC LIMITS |
|---|---|
| (DCBP) = Decachlorobiphenyl (S) | (60-140) |
| (TCMX) = Tetrachloro-m-xylene (S) | (60-140) |

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718007.D

Lab Sample ID: 1681429LCS

Date Analyzed (1): 05/07/2018

LCS Lot No: 192096

SDG No.: 40158029

| COMPOUND | AMOUNT ADDED (ug/kg) | LCS CONCENTRATION (ug/kg) | LCS %REC | QC LIMITS REC. |
|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 250 | 236 | 94 | 70-130 |

Spike Recovery: 0 out of 1 outside limits.

05/21/2018 11:07

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718032.D

Lab Sample ID: 1681907LCS

Date Analyzed (1): 05/07/2018

LCS Lot No: 192096

SDG No.: 40158029

| COMPOUND | AMOUNT ADDED (ug/kg) | LCS CONCENTRATION (ug/kg) | LCS %REC | QC LIMITS REC. |
|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 250 | 240 | 96 | 70-130 |

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718057.D

Lab Sample ID: 1682673LCS

Date Analyzed (1): 05/08/2018

LCS Lot No: 192096

SDG No.: 40158029

| COMPOUND | AMOUNT ADDED (ug/kg) | LCS CONCENTRATION (ug/kg) | LCS %REC | QC LIMITS REC. |
|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 250 | 229 | 91 | 70-130 |

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718081.D

Lab Sample ID: 1683453LCS

Date Analyzed (1): 05/08/2018

LCS Lot No: 192096

SDG No.: 40158029

| COMPOUND | AMOUNT ADDED (ug/kg) | LCS CONCENTRATION (ug/kg) | LCS %REC | QC LIMITS REC. |
|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 250 | 256 | 103 | 70-130 |

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument: 40GCSK

Parent Sample ID: 40157940015

Matrix Spike - Sample No: 1681430MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718009.D

SDG No.: 40158029

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENTRATION (ug/kg) | MS CONCENTRATION (ug/kg) | MS %REC | QC LIMITS REC. |
|---|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 250 | <228 | 1220 | 487 | 70-130 |

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Parent Sample ID: 40157948007

Matrix Spike - Sample No: 1681908MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718036.D

SDG No.: 40158029

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENTRATION (ug/kg) | MS CONCENTRATION (ug/kg) | MS %REC | QC LIMITS REC. |
|---|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 460 | <57.1 | 649 | 141 | 70-130 |

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument: 40GCSK

Parent Sample ID: AT1-170830-01-SFSH-02

Matrix Spike - Sample No: 1682675MS

Date Analyzed (1): 05/08/2018

Lab File ID: 050718.B\050718075.D

SDG No.: 40158029

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENTRATION (ug/kg) | MS CONCENTRATION (ug/kg) | MS %REC | QC LIMITS REC. |
|---|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 359 | <31.3 | 514 | 143 | 70-130 |

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument: 40GCSK

Parent Sample ID: 40158017011

Matrix Spike - Sample No: 1683455MS

Date Analyzed (1): 05/08/2018

Lab File ID: 050718.B\050718085.D

SDG No.: 40158029

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENTRATION (ug/kg) | MS CONCENTRATION (ug/kg) | MS %REC | QC LIMITS REC. |
|---|---|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 705 | <11.4 | 709 | 101 | 70-130 |

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40157940015

Duplicate Sample No: 40157940015DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718010.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <228 | <228 | | 0-40 |
| PCB-1221 (Aroclor 1221) | 996J | 1040 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <228 | <228 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <228 | <228 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 2930 | 2680 | 9 | 0-40 |
| PCB-1254 (Aroclor 1254) | 1260 | 1150 | 9 | 0-40 |
| PCB-1260 (Aroclor 1260) | 288J | 280J | | 0-40 |

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40157948011

Duplicate Sample No: 40157948011DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718014.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <114 | <114 | | 0-40 |
| PCB-1221 (Aroclor 1221) | 614 | 631 | 3 | 0-40 |
| PCB-1232 (Aroclor 1232) | <114 | <114 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <114 | <114 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 1830 | 1870 | 2 | 0-40 |
| PCB-1254 (Aroclor 1254) | 785 | 805 | 3 | 0-40 |
| PCB-1260 (Aroclor 1260) | 187J | 196J | | 0-40 |

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40158017020

Duplicate Sample No: 40158017020DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718025.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <11.4 | <11.4 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <11.4 | <11.4 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <11.4 | <11.4 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <11.4 | <11.4 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 23.5J | 21.8J | | 0-40 |
| PCB-1254 (Aroclor 1254) | 22.2J | 20.0J | | 0-40 |
| PCB-1260 (Aroclor 1260) | 25.7J | 24.0J | | 0-40 |

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-4

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: SW4-170830-01-GOSH-01

Duplicate Sample No: 40158029004DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718030.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <56.8 | <56.9 | | 0-40 |
| PCB-1221 (Aroclor 1221) | 277 | 291 | 5 | 0-40 |
| PCB-1232 (Aroclor 1232) | <56.8 | <56.9 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <56.8 | <56.9 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 890 | 922 | 4 | 0-40 |
| PCB-1254 (Aroclor 1254) | 334 | 347 | 4 | 0-40 |
| PCB-1260 (Aroclor 1260) | 97.0J | 102J | | 0-40 |

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: 40157948007

Duplicate Sample No: 40157948007DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718037.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <57.1 | <65.5 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <57.1 | <65.5 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <57.1 | <65.5 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <57.1 | <65.5 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 1190 | 1200 | 1 | 0-40 |
| PCB-1254 (Aroclor 1254) | 685 | 694 | 1 | 0-40 |
| PCB-1260 (Aroclor 1260) | 120J | 123J | | 0-40 |

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: 40158017006

Duplicate Sample No: 40158017006DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718047.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <228 | <228 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <228 | <228 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <228 | <228 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <228 | <228 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 3690 | 3260 | 13 | 0-40 |
| PCB-1254 (Aroclor 1254) | 2100 | 1840 | 13 | 0-40 |
| PCB-1260 (Aroclor 1260) | 320J | 292J | | 0-40 |

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: 40157948010

Duplicate Sample No: 40157948010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718062.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <188 | <181 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <188 | <181 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <188 | <181 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <188 | <181 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 3860 | 4010 | 4 | 0-40 |
| PCB-1254 (Aroclor 1254) | 1980 | 2060 | 4 | 0-40 |
| PCB-1260 (Aroclor 1260) | 257J | 264J | | 0-40 |

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: AT1-170830-01-SFSH-02

Duplicate Sample No: 40158029010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718078.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <31.3 | <35.4 | | 0-40 |
| PCB-1221 (Aroclor 1221) | 121J | 115J | | 0-40 |
| PCB-1232 (Aroclor 1232) | <31.3 | <35.4 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <31.3 | <35.4 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 420 | 400 | 5 | 0-40 |
| PCB-1254 (Aroclor 1254) | 248 | 234 | 6 | 0-40 |
| PCB-1260 (Aroclor 1260) | 233 | 222 | 5 | 0-40 |

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: 40157948006

Duplicate Sample No: 40157948006DUP

Date Analyzed: 05/10/2018

Lab File ID: 051018.B\051018008.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <101 | <83.9 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <101 | <83.9 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <101 | <83.9 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <101 | <83.9 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 2540 | 2510 | 1 | 0-40 |
| PCB-1254 (Aroclor 1254) | 1490 | 1470 | 1 | 0-40 |
| PCB-1260 (Aroclor 1260) | 216J | 215J | | 0-40 |

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: 40158017011

Duplicate Sample No: 40158017011DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718086.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <11.4 | <26.3 | | 0-40 |
| PCB-1221 (Aroclor 1221) | <11.4 | <26.3 | | 0-40 |
| PCB-1232 (Aroclor 1232) | <11.4 | <26.3 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <11.4 | <26.3 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 50.0J | 53.1J | | 0-40 |
| PCB-1254 (Aroclor 1254) | 35.9J | 38.1J | | 0-40 |
| PCB-1260 (Aroclor 1260) | 29.2J | 37.2J | | 0-40 |

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: AT1-170830-01-MIN-03

Duplicate Sample No: 40158029012DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718095.D

SDG No.: 40158029

| COMPOUND | SAMPLE CONCENTRATION (ug/kg) | DUPLICATE CONCENTRATION (ug/kg) | RPD | RPD LIMITS |
|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | <22.8 | <32.5 | | 0-40 |
| PCB-1221 (Aroclor 1221) | 113 | 122J | | 0-40 |
| PCB-1232 (Aroclor 1232) | <22.8 | <32.5 | | 0-40 |
| PCB-1242 (Aroclor 1242) | <22.8 | <32.5 | | 0-40 |
| PCB-1248 (Aroclor 1248) | 232 | 236 | 2 | 0-40 |
| PCB-1254 (Aroclor 1254) | 177 | 176 | 0 | 0-40 |
| PCB-1260 (Aroclor 1260) | 78.6J | 82.9J | | 0-40 |

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1681428BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1681428

Lab File ID: 050718.B\050718006.D Date Analyzed: 05/07/2018 Time:14:38

| SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | ANALYZED |
|---|---|---|---|
| 1681429LCS | 1681429 | 050718.B\050718007.D | 05/07/2018 14:54 |
| 1681911DUP | 1681911 | 050718.B\050718010.D | 05/07/2018 15:42 |
| 1681432DUP | 1681432 | 050718.B\050718014.D | 05/07/2018 16:45 |
| 1681433DUP | 1681433 | 050718.B\050718025.D | 05/07/2018 19:39 |
| SW5-170830-01-GOSH-01 | 40158029002 | 050718.B\050718026.D | 05/07/2018 19:55 |
| SW4-170830-01-GOSH-01 | 40158029004 | 050718.B\050718027.D | 05/07/2018 20:11 |
| 1681434DUP | 1681434 | 050718.B\050718030.D | 05/07/2018 20:58 |

SAMPLE NO.

1681906BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1681906

Lab File ID: 050718.B\050718031.D Date Analyzed: 05/07/2018 Time:21:14

| SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | ANALYZED |
|---|---|---|---|
| 1681907LCS | 1681907 | 050718.B\050718032.D | 05/07/2018 21:30 |
| 1681909DUP | 1681909 | 050718.B\050718037.D | 05/07/2018 22:49 |
| 1681910DUP | 1681910 | 050718.B\050718047.D | 05/08/2018 01:28 |
| SW5-170830-01-SPSH-01 | 40158029001 | 050718.B\050718054.D | 05/08/2018 03:19 |
| AT1-170830-01-SPSH-01 | 40158029005 | 050718.B\050718055.D | 05/08/2018 03:34 |

SAMPLE NO.

1682672BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1682672

Lab File ID: 050718.B\050718056.D Date Analyzed: 05/08/2018 Time:03:50

| SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | ANALYZED |
|---|---|---|---|
| 1682673LCS | 1682673 | 050718.B\050718057.D | 05/08/2018 04:06 |
| 1682674DUP | 1682674 | 050718.B\050718062.D | 05/08/2018 05:25 |
| AT1-170830-01-SFSH-06 | 40158029006 | 050718.B\050718070.D | 05/08/2018 07:32 |
| AT1-170830-01-SFSH-05 | 40158029007 | 050718.B\050718071.D | 05/08/2018 07:48 |
| AT1-170830-01-SFSH-04 | 40158029008 | 050718.B\050718072.D | 05/08/2018 12:42 |
| AT1-170830-01-SFSH-03 | 40158029009 | 050718.B\050718073.D | 05/08/2018 13:16 |
| AT1-170830-01-SFSH-02 | 40158029010 | 050718.B\050718074.D | 05/08/2018 13:32 |
| 1682675MS | 1682675 | 050718.B\050718075.D | 05/08/2018 13:48 |
| 1682677DUP | 1682677 | 050718.B\050718078.D | 05/08/2018 14:35 |
| AT1-170830-01-SFSH-01 | 40158029011 | 050718.B\050718079.D | 05/08/2018 14:51 |

SAMPLE NO.

1683452BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158029 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1683452

Lab File ID: 050718.B\050718080.D Date Analyzed: 05/08/2018 Time:15:07

| SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | ANALYZED |
|---|---|---|---|
| 1683453LCS | 1683453 | 050718.B\050718081.D | 05/08/2018 15:23 |
| 1683456DUP | 1683456 | 050718.B\050718086.D | 05/08/2018 16:42 |
| SW4-170830-01-MMSH-01 | 40158029003 | 050718.B\050718093.D | 05/08/2018 18:34 |
| AT1-170830-01-MIN-03 | 40158029012 | 050718.B\050718094.D | 05/08/2018 18:50 |
| 1683457DUP | 1683457 | 050718.B\050718095.D | 05/08/2018 19:06 |
| AT1-170830-01-MIN-02 | 40158029013 | 050718.B\050718096.D | 05/08/2018 19:21 |
| AT1-170830-01-MIN-01 | 40158029014 | 050718.B\050718097.D | 05/08/2018 19:37 |
| 1683454DUP | 1683454 | 051018.B\051018008.D | 05/10/2018 09:14 |

SAMPLE NO.

SW5-170830-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158029001
Date Analyzed: 05/08/2018 03:19
Lab File ID: 050718.B\050718054.D
Initial wt/vol: 9.9914 g Final wt/vol: 5 mL Dilution: 15
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <171 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <171 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <171 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <171 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 2660 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 1100 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 321 | J |
| 1336-36-3 | PCB, Total | 4090 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718054.D
Lab Smp Id: 40158029001 Client Smp ID: SW5-170830-01-SPSH-
Inj Date : 08-MAY-2018 03:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029001 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 54
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 15.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.991 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 14584 | 16269 | 1.116 | 0.04 | | |
| 2.059 | 12312 | 11577 | 0.940 | 0.03 | | |
| 2.475 | 62655 | 55322 | 0.883 | 0.20 | | |
| 2.549 | 835365 | 865860 | 1.037 | 2.69 | $ 2 Tetrachloro-m-xylene | |
| 3.046 | 41408 | 20096 | 0.485 | 0.13 | | |
| 3.094 | 41184 | 38544 | 0.936 | 0.13 | | |
| 3.131 | 52136 | 45278 | 0.868 | 0.16 | | |
| 3.393 | 10779 | 9584 | 0.889 | 0.03 | | |
| 3.422 | 17815 | 14233 | 0.799 | 0.05 | | |
| 3.513 | 47625 | 43950 | 0.923 | 0.15 | | |
| 3.598 | 24452 | 18693 | 0.764 | 0.07 | | |
| 3.726 | 38717 | 34496 | 0.891 | 0.12 | | |
| 3.812 | 354295 | 348778 | 0.984 | 1.14 | | |
| 3.836 | 139033 | 122332 | 0.880 | 0.44 | | |
| 3.895 | 1495390 | 843127 | 0.564 | 4.82 | | |
| 4.005 | 58036 | 32532 | 0.561 | 0.18 | | |
| 4.077 | 183851 | 162152 | 0.882 | 0.59 | | |
| 4.143 | 90277 | 78943 | 0.874 | 0.29 | | |
| 4.298 | 1607404 | 1485505 | 0.924 | 5.18 | | |
| 4.344 | 1707177 | 1614533 | 0.946 | 5.98 | 6 Aroclor 1248 | BA |
| 4.376 | 1579822 | 1364465 | 0.864 | 5.09 | | |
| 4.432 | 36018 | 26191 | 0.727 | 0.11 | | |
| 4.501 | 605567 | 591877 | 0.977 | 1.95 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.536 | 506174 | 437391 | 0.864 | 1.63 | |
| 4.630 | 935426 | 899126 | 0.961 | 3.01 | 6 Aroclor 1248 |
| 4.673 | 129948 | 116316 | 0.895 | 0.41 | |
| 4.704 | 148753 | 129224 | 0.869 | 0.47 | |
| 4.765 | 111047 | 93027 | 0.838 | 0.35 | |
| 4.822 | 132008 | 94592 | 0.717 | 0.42 | |
| 4.852 | 229143 | 213678 | 0.933 | 0.73 | |
| 4.898 | 711950 | 671538 | 0.943 | 2.29 | 6 Aroclor 1248 |
| 4.932 | 718601 | 672378 | 0.936 | 2.31 | |
| 4.964 | 1688781 | 930756 | 0.551 | 5.44 | 6 Aroclor 1248 |
| 5.041 | 410914 | 344631 | 0.839 | 1.32 | |
| 5.123 | 678780 | 605704 | 0.892 | 2.18 | 6 Aroclor 1248 |
| 5.186 | 624408 | 564034 | 0.903 | 2.01 | |
| 5.245 | 983973 | 858845 | 0.873 | 3.17 | 7 Aroclor 1254 |
| 5.297 | 783661 | 688894 | 0.879 | 2.52 | |
| 5.368 | 75244 | 71955 | 0.956 | 0.24 | |
| 5.394 | 200394 | 155779 | 0.777 | 0.64 | |
| 5.449 | 284108 | 258689 | 0.911 | 0.91 | |
| 5.493 | 671325 | 610982 | 0.910 | 2.16 | 7 Aroclor 1254 |
| 5.533 | 540294 | 448045 | 0.829 | 1.74 | |
| 5.569 | 77717 | 84151 | 1.083 | 0.25 | |
| 5.595 | 1228752 | 1089735 | 0.887 | 3.96 | 7 Aroclor 1254 |
| 5.662 | 64775 | 52735 | 0.814 | 0.20 | |
| 5.691 | 163647 | 145613 | 0.890 | 0.52 | |
| 5.760 | 279873 | 243714 | 0.871 | 0.90 | |
| 5.794 | 170314 | 136685 | 0.803 | 0.54 | |
| 5.826 | 242096 | 177242 | 0.732 | 0.78 | |
| 5.875 | 1442786 | 1121788 | 0.778 | 4.65 | |
| 5.972 | 137069 | 100896 | 0.736 | 0.44 | |
| 6.015 | 132995 | 95974 | 0.722 | 0.42 | |
| 6.078 | 242733 | 219840 | 0.906 | 0.78 | |
| 6.112 | 564418 | 512779 | 0.909 | 1.82 | 7 Aroclor 1254 |
| 6.141 | 930173 | 777146 | 0.835 | 3.00 | |
| 6.255 | 199225 | 127860 | 0.642 | 0.64 | |
| 6.313 | 77598 | 77456 | 0.998 | 0.25 | |
| 6.327 | 110079 | 93576 | 0.850 | 0.35 | |
| 6.387 | 1214628 | 1023459 | 0.843 | 3.91 | 7 Aroclor 1254 |
| 6.420 | 113669 | 98351 | 0.865 | 0.36 | |
| 6.459 | 62715 | 52023 | 0.830 | 0.20 | |
| 6.518 | 126498 | 95763 | 0.757 | 0.40 | |
| 6.596 | 285631 | 257219 | 0.901 | 0.92 | |
| 6.623 | 254246 | 228818 | 0.900 | 0.82 | |
| 6.646 | 83942 | 80644 | 0.961 | 0.27 | |
| 6.689 | 47993 | 44586 | 0.929 | 0.15 | |
| 6.746 | 32414 | 21415 | 0.661 | 0.10 | |
| 6.805 | 105428 | 89251 | 0.847 | 0.34 | |
| 6.846 | 117253 | 104010 | 0.887 | 0.37 | |
| 6.887 | 153789 | 136849 | 0.890 | 0.49 | |
| 6.927 | 83987 | 58905 | 0.701 | 0.27 | |
| 7.028 | 81242 | 70747 | 0.871 | 0.26 | |
| 7.089 | 344182 | 307990 | 0.895 | 1.11 | 8 Aroclor 1260 |
| 7.120 | 21104 | 28035 | 1.328 | 0.06 | |
| 7.203 | 24724 | 18316 | 0.741 | 0.07 | |
| 7.336 | 203837 | 173424 | 0.851 | 0.65 | 8 Aroclor 1260 |
| 7.368 | 83191 | 60157 | 0.723 | 0.26 | |
| 7.416 | 25824 | 17897 | 0.693 | 0.08 | |
| 7.475 | 134785 | 120481 | 0.894 | 0.43 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.528 | 187890 | 149323 | 0.795 | 0.60 | 8 Aroclor 1260 |
| 7.630 | 23507 | 16894 | 0.719 | 0.07 | |
| 7.746 | 27807 | 30020 | 1.080 | 0.08 | |
| 7.780 | 51656 | 47425 | 0.918 | 0.16 | |
| 7.814 | 52052 | 37199 | 0.715 | 0.16 | |
| 7.887 | 30859 | 16692 | 0.541 | 0.09 | |
| 7.985 | 161391 | 139142 | 0.862 | 0.52 | 8 Aroclor 1260 |
| 8.048 | 18127 | 12257 | 0.676 | 0.05 | |
| 8.359 | 136073 | 124662 | 0.916 | 0.43 | |
| 8.656 | 1002134 | 901436 | 0.900 | 3.23 | $ 12 Decachlorobiphenyl |
| 8.997 | 12668 | 10865 | 0.858 | 0.04 | |
| 9.523 | 10648 | 10350 | 0.972 | 0.03 | |
| | 31000978 | 26351716 | | 100.000 | |

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718054.D
Lab Smp Id: 40158029001 Client Smp ID: SW5-170830-01-SPSH-
Inj Date : 08-MAY-2018 03:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029001 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 54
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 15.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.991 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | | CAS #: 11104-28-2 | | |
| Peaks not detected for Quant. or Qual. signal(s). | | | | | | | | |
| $ 2 Tetrachloro-m-xylene | | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 835364 | 0.00694 | 52 | | | |
| 3 Aroclor 1242 | | | | | | CAS #: 53469-21-9 | | |
| Operator disabled compound identification. | | | | | | | | |
| 4 Aroclor 1232 | | | | | | CAS #: 1114-16-5 | | |
| Peaks not detected for Quant. or Qual. signal(s). | | | | | | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1707177 | 0.71569 | 5400 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 935425 | 0.22023 | 1600 | 0.00- 20.00 | 54.79 | BA |
| 4.897 | 4.898 | -0.001 | 711949 | 0.34950 | 2600 | 0.00- 20.00 | 41.70 | BA |
| 4.964 | 4.963 | 0.001 | 1688780 | 0.30832 | 2300 | 0.00- 20.00 | 98.92 | BA |
| 5.122 | 5.123 | -0.001 | 678779 | 0.17942 | 1300 | 0.00- 20.00 | 39.76 | BA |
| Average of Peak Concentrations = | | | | | 2700 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.245 | 5.248 | -0.003 | 983973 | 0.17448 | 1300 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 671325 | 0.14394 | 1100 | 0.00- 20.00 | 68.23 | BA |
| 5.595 | 5.596 | -0.001 | 1228752 | 0.14351 | 1100 | 0.00- 20.00 | 124.88 | BA |
| 6.112 | 6.113 | -0.001 | 564417 | 0.10624 | 800 | 0.00- 20.00 | 57.36 | BA |
| 6.387 | 6.387 | 0.000 | 1214628 | 0.16591 | 1200 | 0.00- 20.00 | 123.44 | BA |
| Average of Peak Concentrations = | | | | | 1100 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | CO |
| 7.089 | 7.090 | -0.001 | 344182 | 0.02924 | 220 | 0.00- 20.00 | 30.04 | CO |
| 7.336 | 7.338 | -0.002 | 203836 | 0.03604 | 270 | 0.00- 20.00 | 16.78 | CO |
| 7.527 | 7.529 | -0.002 | 187889 | 0.05496 | 410 | 0.00- 20.00 | 15.47 | CO |
| 7.984 | 7.987 | -0.003 | 161391 | 0.05096 | 380 | 0.00- 20.00 | 13.29 | CO |
| Average of Peak Concentrations = | | | | | 320 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 1002134 | 0.00752 | 56 | | | |

QC Flag Legend

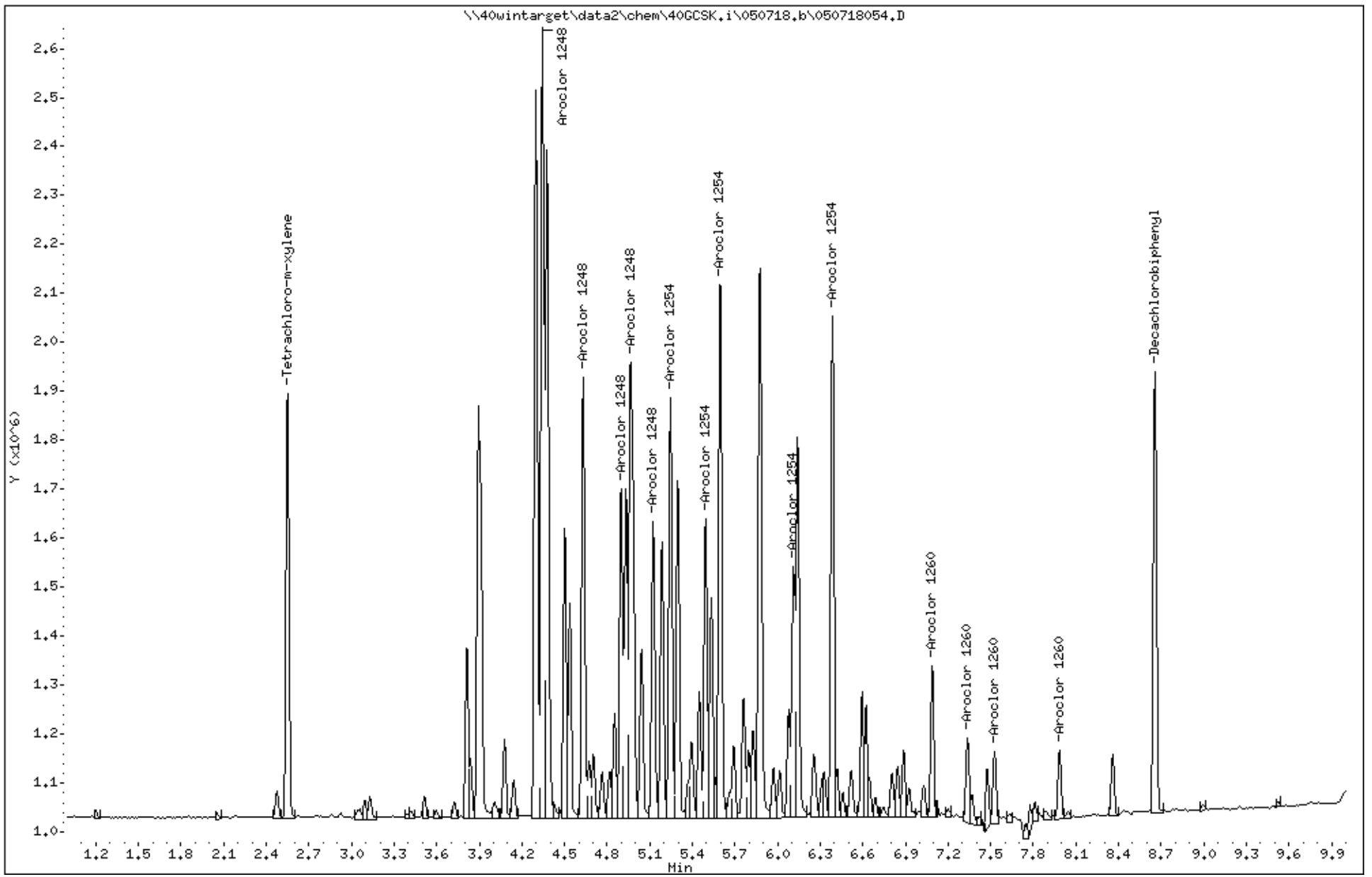
M - Compound response manually integrated.

Review Codes Legend

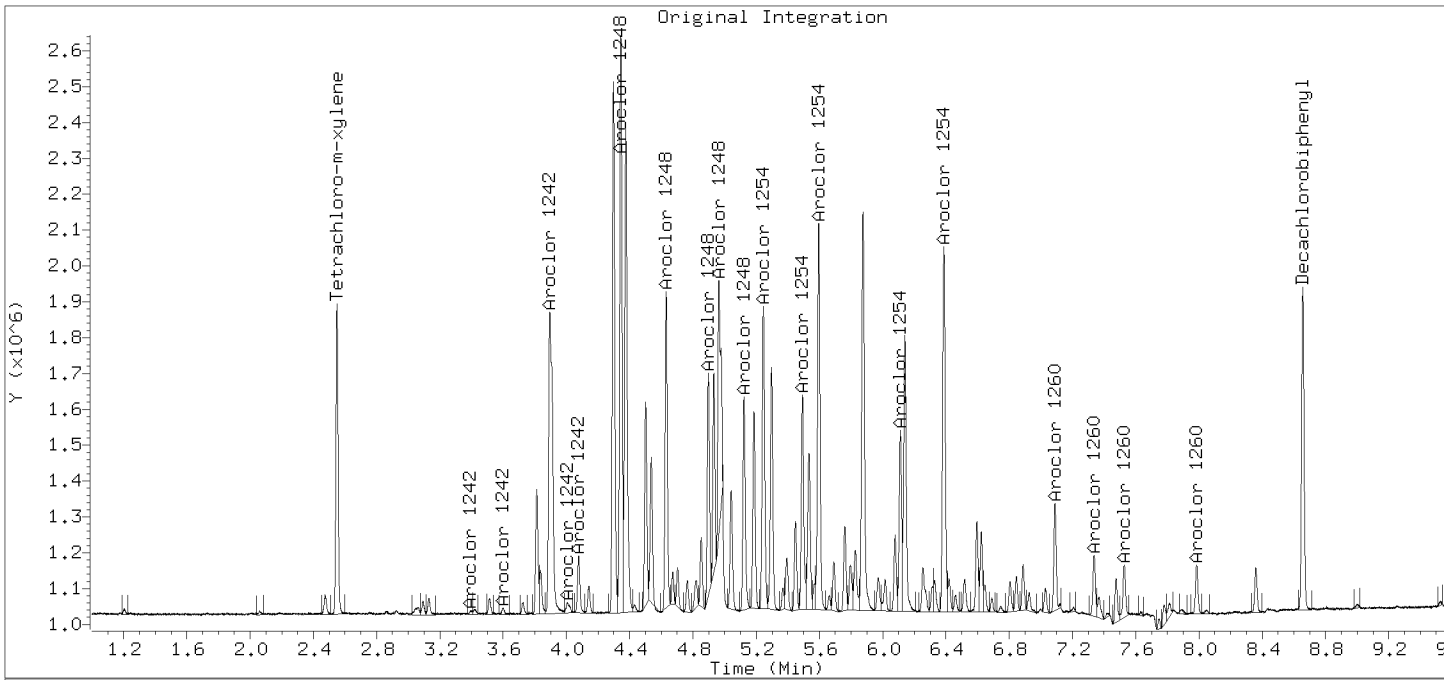
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

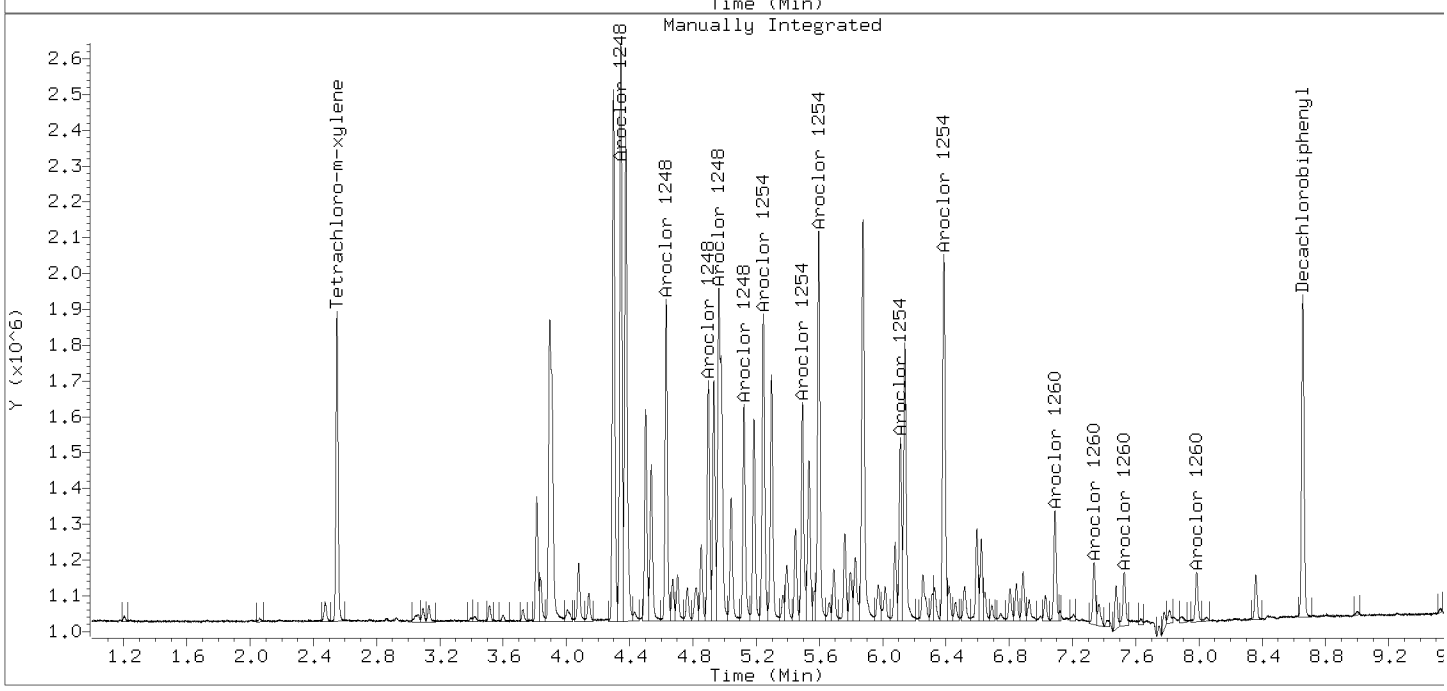
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718054.D
Date : 08-MAY-2018 03:19
Client ID: SW5-170830-01-SPSH-
Sample Info: 40158029001 x15,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718054.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 03:19 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029001




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 10778 | 0 | |
| Aroclor 1016 | 10778 | 0 | |
| Aroclor 1016 | 10778 | 0 | |
| Aroclor 1016 | 10778 | 0 | |
| Aroclor 1016 | 10778 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1242 | 10778 | 0 | |
| Aroclor 1242 | 10778 | 0 | |
| Aroclor 1242 | 10778 | 0 | |
| Aroclor 1242 | 10778 | 0 | |
| Aroclor 1242 | 10778 | 0 | |
| Aroclor 1248 | 1695660 | 1707177 | BA |
| Aroclor 1248 | 1695660 | 1707177 | BA |
| Aroclor 1248 | 1695660 | 1707177 | BA |
| Aroclor 1248 | 1695660 | 1707177 | BA |
| Aroclor 1248 | 1695660 | 1707177 | BA |
| Aroclor 1254 | 937015 | 983973 | BA |
| Aroclor 1254 | 937015 | 983973 | BA |
| Aroclor 1254 | 937015 | 983973 | BA |
| Aroclor 1254 | 937015 | 983973 | BA |
| Aroclor 1254 | 937015 | 983973 | BA |
| Aroclor 1260 | 1197798 | 0 | CO |
| Aroclor 1260 | 1197798 | 0 | CO |
| Aroclor 1260 | 1197798 | 0 | CO |
| Aroclor 1260 | 1197798 | 0 | CO |
| Aroclor 1260 | 1197798 | 0 | CO |
| Tetrachloro-m-xylene | 835364 | 835364 | |
| Decachlorobiphenyl | 1002134 | 1002134 | |

==========

SAMPLE NO.

SW5-170830-01-GOSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158029002
Date Analyzed: 05/07/2018 19:55
Lab File ID: 050718.B\050718026.D
Initial wt/vol: 9.985 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <45.7 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 368 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <45.7 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <45.7 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 854 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 332 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 124 | J |
| 1336-36-3 | PCB, Total | 1680 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718026.D
Lab Smp Id: 40158029002 Client Smp ID: SW5-170830-01-GOSH-
Inj Date : 07-MAY-2018 19:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029002 x4,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 4.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.985 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.177 | 10966 | 11566 | 1.055 | 0.02 | | |
| 1.818 | 16703 | 16123 | 0.965 | 0.03 | | |
| 1.855 | 21277 | 18235 | 0.857 | 0.04 | 1 Aroclor 1221 | BA |
| 2.002 | 14434 | 10796 | 0.748 | 0.03 | | |
| 2.474 | 404235 | 323596 | 0.801 | 0.90 | 1 Aroclor 1221 | BA |
| 2.550 | 2924876 | 2926285 | 1.000 | 6.51 | $ 2 Tetrachloro-m-xylene | BA |
| 2.755 | 30514 | 25001 | 0.819 | 0.06 | 1 Aroclor 1221 | BA |
| 2.860 | 59312 | 48312 | 0.815 | 0.13 | 1 Aroclor 1221 | BA |
| 2.923 | 182433 | 162708 | 0.892 | 0.40 | 1 Aroclor 1221 | BA |
| 2.972 | 39580 | 27914 | 0.705 | 0.08 | | |
| 3.048 | 26247 | 30892 | 1.177 | 0.05 | | |
| 3.065 | 40029 | 40531 | 1.013 | 0.08 | | |
| 3.094 | 73293 | 73088 | 0.997 | 0.16 | | |
| 3.130 | 466193 | 453713 | 0.973 | 1.03 | | |
| 3.396 | 283111 | 274903 | 0.971 | 0.63 | | |
| 3.423 | 352987 | 337805 | 0.957 | 0.78 | | |
| 3.512 | 594894 | 578875 | 0.973 | 1.32 | | |
| 3.599 | 541730 | 495759 | 0.915 | 1.20 | | |
| 3.727 | 74493 | 60932 | 0.818 | 0.16 | | |
| 3.812 | 478500 | 473536 | 0.990 | 1.06 | | |
| 3.837 | 194638 | 186074 | 0.956 | 0.43 | | |
| 3.895 | 1015744 | 1069853 | 1.053 | 2.26 | | |
| 3.907 | 979026 | 999722 | 1.021 | 2.18 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.021 | 489307 | 393590 | 0.804 | 1.09 | |
| 4.076 | 368669 | 329310 | 0.893 | 0.82 | |
| 4.142 | 181474 | 170037 | 0.937 | 0.40 | |
| 4.221 | 42041 | 40024 | 0.952 | 0.09 | |
| 4.297 | 1885312 | 1731167 | 0.918 | 4.20 | |
| 4.344 | 1954766 | 1817045 | 0.930 | 4.35 | 6 Aroclor 1248 |
| 4.376 | 2064711 | 1698820 | 0.823 | 4.60 | |
| 4.432 | 37912 | 25995 | 0.686 | 0.08 | |
| 4.502 | 712227 | 690556 | 0.970 | 1.58 | |
| 4.537 | 615239 | 544037 | 0.884 | 1.37 | |
| 4.631 | 1357300 | 1249680 | 0.921 | 3.02 | 6 Aroclor 1248 |
| 4.672 | 148577 | 136494 | 0.919 | 0.33 | |
| 4.704 | 180413 | 163484 | 0.906 | 0.40 | |
| 4.764 | 109229 | 94332 | 0.864 | 0.24 | |
| 4.820 | 141648 | 103396 | 0.730 | 0.31 | |
| 4.852 | 251249 | 239344 | 0.953 | 0.56 | |
| 4.897 | 881002 | 848137 | 0.963 | 1.96 | 6 Aroclor 1248 |
| 4.932 | 775278 | 727186 | 0.938 | 1.72 | |
| 4.964 | 1923670 | 1186271 | 0.617 | 4.28 | 6 Aroclor 1248 |
| 5.042 | 416528 | 363780 | 0.873 | 0.92 | |
| 5.123 | 795127 | 715268 | 0.900 | 1.77 | 6 Aroclor 1248 |
| 5.186 | 686653 | 617824 | 0.900 | 1.53 | |
| 5.246 | 1087902 | 954049 | 0.877 | 2.42 | 7 Aroclor 1254 |
| 5.297 | 948193 | 843856 | 0.890 | 2.11 | |
| 5.370 | 94422 | 95069 | 1.007 | 0.21 | |
| 5.394 | 217334 | 174838 | 0.804 | 0.48 | |
| 5.448 | 299540 | 279712 | 0.934 | 0.66 | |
| 5.493 | 714949 | 657625 | 0.920 | 1.59 | 7 Aroclor 1254 |
| 5.534 | 671951 | 594871 | 0.885 | 1.49 | |
| 5.575 | 92392 | 94744 | 1.025 | 0.20 | |
| 5.596 | 1300754 | 1147094 | 0.882 | 2.89 | 7 Aroclor 1254 |
| 5.662 | 61012 | 53038 | 0.869 | 0.13 | |
| 5.691 | 180075 | 168031 | 0.933 | 0.40 | |
| 5.761 | 249776 | 235345 | 0.942 | 0.55 | |
| 5.797 | 167950 | 141655 | 0.843 | 0.37 | |
| 5.827 | 285690 | 216072 | 0.756 | 0.63 | |
| 5.876 | 1668875 | 1342139 | 0.804 | 3.72 | |
| 5.972 | 170089 | 123778 | 0.728 | 0.37 | |
| 6.015 | 140129 | 109343 | 0.780 | 0.31 | |
| 6.079 | 298082 | 275577 | 0.924 | 0.66 | |
| 6.112 | 672481 | 599621 | 0.892 | 1.49 | 7 Aroclor 1254 |
| 6.141 | 1136355 | 1011863 | 0.890 | 2.53 | |
| 6.254 | 205167 | 148195 | 0.722 | 0.45 | |
| 6.314 | 93362 | 103556 | 1.109 | 0.20 | |
| 6.330 | 153970 | 126603 | 0.822 | 0.34 | |
| 6.387 | 1496572 | 1267569 | 0.847 | 3.33 | 7 Aroclor 1254 |
| 6.419 | 129233 | 125854 | 0.974 | 0.28 | |
| 6.462 | 71468 | 54618 | 0.764 | 0.15 | |
| 6.518 | 154927 | 128001 | 0.826 | 0.34 | |
| 6.596 | 341486 | 315782 | 0.925 | 0.76 | |
| 6.622 | 318341 | 289276 | 0.909 | 0.70 | |
| 6.645 | 107369 | 106583 | 0.993 | 0.23 | |
| 6.689 | 62096 | 52242 | 0.841 | 0.13 | |
| 6.748 | 25403 | 22645 | 0.891 | 0.05 | |
| 6.805 | 116796 | 101856 | 0.872 | 0.26 | |
| 6.845 | 155692 | 136722 | 0.878 | 0.34 | |
| 6.886 | 209283 | 181116 | 0.865 | 0.46 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.926 | 107459 | 78339 | 0.729 | 0.23 | |
| 6.999 | 29947 | 22022 | 0.735 | 0.06 | |
| 7.027 | 147790 | 127531 | 0.863 | 0.32 | |
| 7.089 | 489105 | 440532 | 0.901 | 1.09 | 8 Aroclor 1260 |
| 7.121 | 37421 | 41986 | 1.122 | 0.08 | |
| 7.207 | 42409 | 24033 | 0.567 | 0.09 | |
| 7.336 | 274621 | 245808 | 0.895 | 0.61 | 8 Aroclor 1260 |
| 7.366 | 122519 | 83415 | 0.681 | 0.27 | |
| 7.422 | 54713 | 32294 | 0.590 | 0.12 | |
| 7.474 | 192389 | 173990 | 0.904 | 0.42 | |
| 7.528 | 287669 | 215724 | 0.750 | 0.64 | 8 Aroclor 1260 |
| 7.636 | 41631 | 29843 | 0.717 | 0.09 | |
| 7.665 | 30430 | 21498 | 0.706 | 0.06 | |
| 7.747 | 17459 | 20842 | 1.194 | 0.03 | |
| 7.778 | 71367 | 59826 | 0.838 | 0.15 | |
| 7.814 | 99705 | 59398 | 0.596 | 0.22 | |
| 7.984 | 233624 | 194296 | 0.832 | 0.52 | 8 Aroclor 1260 |
| 8.046 | 30434 | 17737 | 0.583 | 0.06 | |
| 8.135 | 10872 | 9706 | 0.893 | 0.02 | |
| 8.223 | 11473 | 8381 | 0.730 | 0.02 | |
| 8.359 | 189396 | 175547 | 0.927 | 0.42 | |
| 8.657 | 3349908 | 2913090 | 0.870 | 7.99 | $ 12 Decachlorobiphenyl |
| 9.000 | 13738 | 10126 | 0.737 | 0.03 | |
| 9.252 | 31500 | 25026 | 0.794 | 0.07 | |
| | 44860243 | 39841924 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718026.D
Lab Smp Id: 40158029002 Client Smp ID: SW5-170830-01-GOSH-
Inj Date : 07-MAY-2018 19:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029002 x4,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 4.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.985 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.855 | 1.853 | 0.002 | 21276 | 0.02148 | 43 | 0.00- 20.00 | 100.00(M) | BA |
| 2.474 | 2.471 | 0.003 | 404234 | 0.76678 | 1500 | 0.00- 20.00 | 1899.95 | BA |
| 2.754 | 2.758 | -0.004 | 30514 | 0.02200 | 44 | 0.00- 20.00 | 143.42 | BA |
| 2.860 | 2.860 | 0.000 | 59311 | 0.05375 | 110 | 0.00- 20.00 | 278.77 | BA |
| 2.922 | 2.923 | -0.001 | 182433 | 0.05457 | 110 | 0.00- 20.00 | 857.46 | BA |
| Average of Peak Concentrations = | | | | | 370 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 2924875 | 0.02428 | 49 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1954766 | 0.81949 | 1600 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 1357300 | 0.31956 | 640 | 0.00- 20.00 | 69.44 | BA |
| 4.897 | 4.898 | -0.001 | 881002 | 0.43249 | 870 | 0.00- 20.00 | 45.07 | BA |
| 4.964 | 4.963 | 0.001 | 1923670 | 0.35120 | 700 | 0.00- 20.00 | 98.41 | BA |
| 5.122 | 5.123 | -0.001 | 795126 | 0.21017 | 420 | 0.00- 20.00 | 40.68 | BA |
| Average of Peak Concentrations = | | | | | 850 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1087902 | 0.19290 | 390 | 0.00- 20.00 | 100.00(M) | CO |
| 5.492 | 5.492 | 0.000 | 714949 | 0.15330 | 310 | 0.00- 20.00 | 65.72 | CO |
| 5.596 | 5.596 | 0.000 | 1300753 | 0.15192 | 300 | 0.00- 20.00 | 119.57 | CO |
| 6.111 | 6.113 | -0.002 | 672481 | 0.12658 | 250 | 0.00- 20.00 | 61.81 | CO |
| 6.386 | 6.387 | -0.001 | 1496572 | 0.20442 | 410 | 0.00- 20.00 | 137.56 | CO |
| Average of Peak Concentrations = | | | | | 330 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | CO |
| 7.088 | 7.090 | -0.002 | 489105 | 0.04156 | 83 | 0.00- 20.00 | 35.14 | CO |
| 7.336 | 7.338 | -0.002 | 274621 | 0.04855 | 97 | 0.00- 20.00 | 18.35 | CO |
| 7.527 | 7.529 | -0.002 | 287668 | 0.08414 | 170 | 0.00- 20.00 | 19.22 | CO |
| 7.984 | 7.987 | -0.003 | 233623 | 0.07377 | 150 | 0.00- 20.00 | 15.61 | CO |
| Average of Peak Concentrations = | | | | | 120 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 3349907 | 0.02515 | 50 | | | |

QC Flag Legend

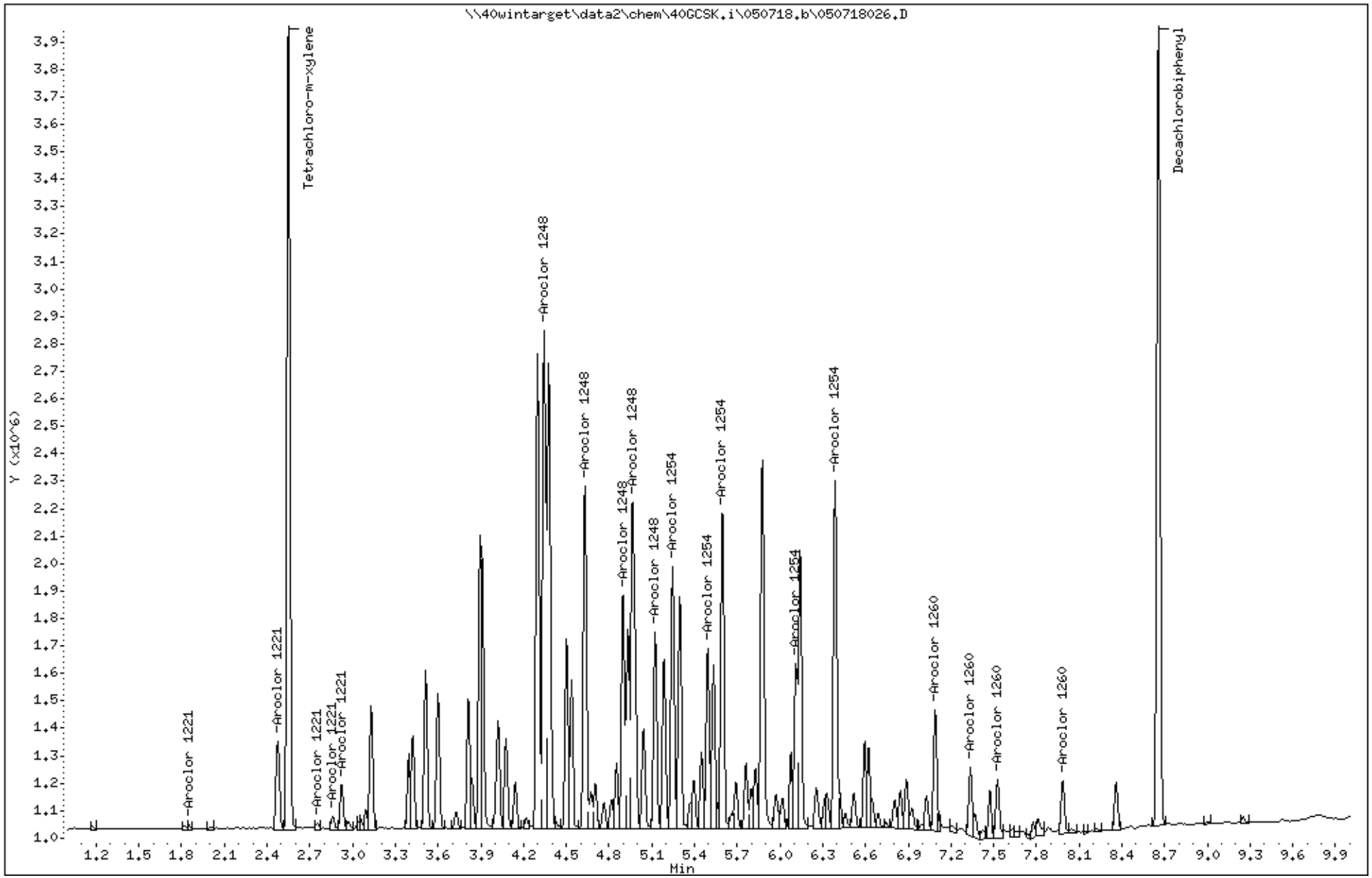
M - Compound response manually integrated.

Review Codes Legend

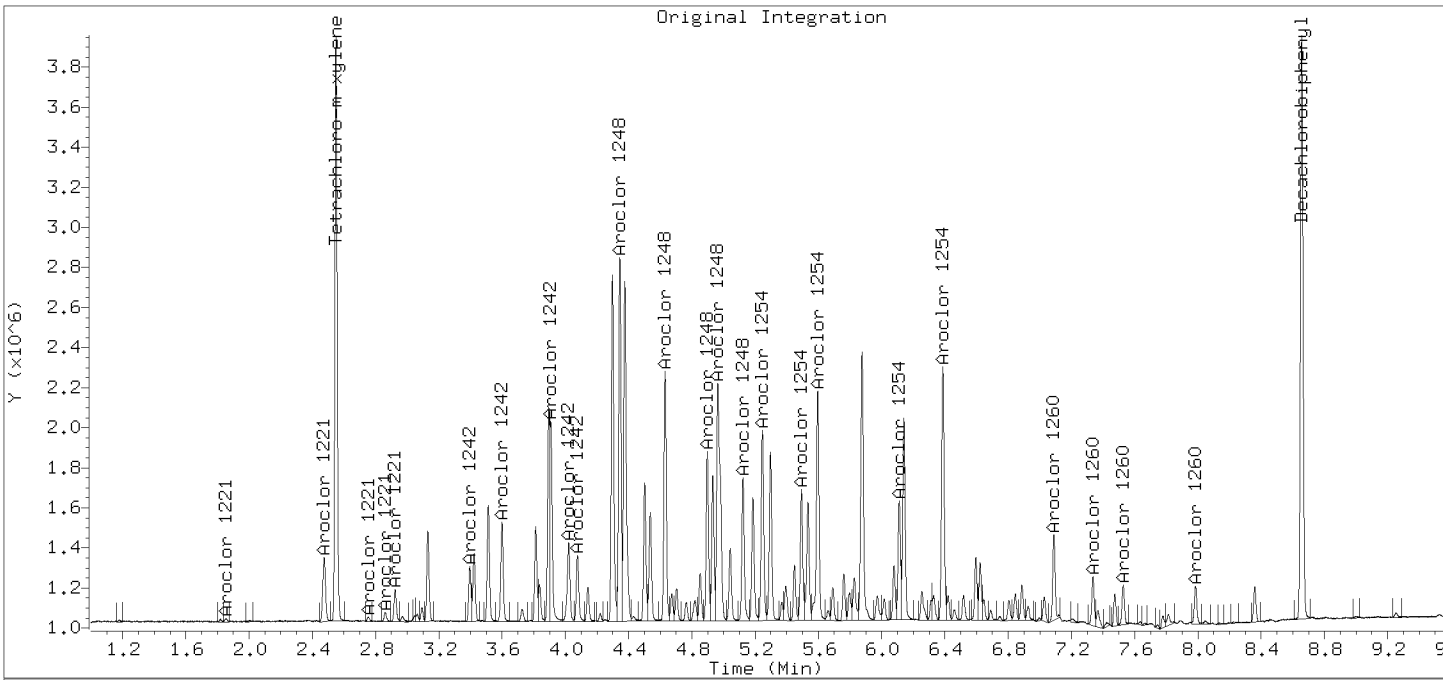
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

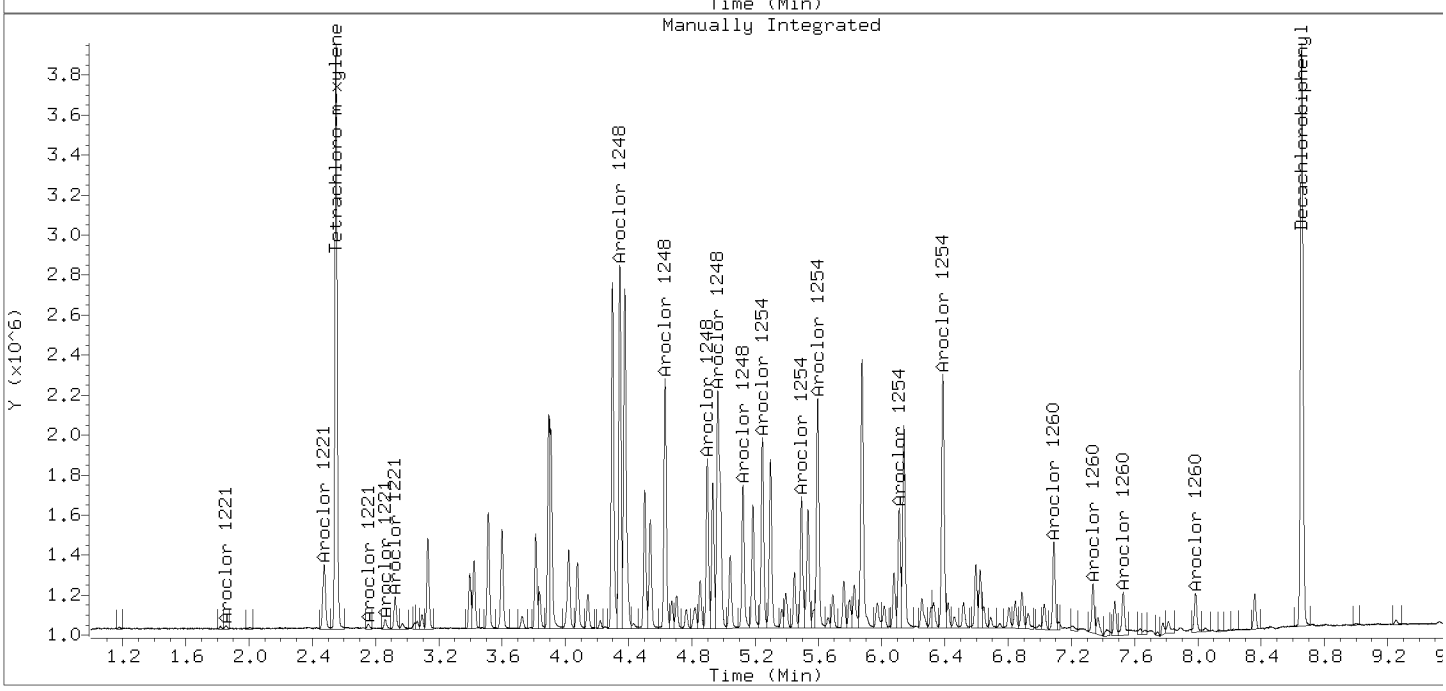
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718026.D
Date : 07-MAY-2018 19:55
Client ID: SW5-170830-01-GOSH-
Sample Info: 40158029002 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 19:55 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029002




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 283111 | 0 | |
| Aroclor 1016 | 283111 | 0 | |
| Aroclor 1016 | 283111 | 0 | |
| Aroclor 1016 | 283111 | 0 | |
| Aroclor 1016 | 283111 | 0 | |
| Aroclor 1221 | 18594 | 21276 | BA |
| Aroclor 1221 | 18594 | 21276 | BA |
| Aroclor 1221 | 18594 | 21276 | BA |
| Aroclor 1221 | 18594 | 21276 | BA |
| Aroclor 1221 | 18594 | 21276 | BA |
| Aroclor 1232 | 175763 | 0 | |
| Aroclor 1232 | 175763 | 0 | |
| Aroclor 1232 | 175763 | 0 | |
| Aroclor 1232 | 175763 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 175763 | 0 | |
| Aroclor 1242 | 283111 | 0 | |
| Aroclor 1242 | 283111 | 0 | |
| Aroclor 1242 | 283111 | 0 | |
| Aroclor 1242 | 283111 | 0 | |
| Aroclor 1242 | 283111 | 0 | |
| Aroclor 1248 | 1948902 | 1954766 | BA |
| Aroclor 1248 | 1948902 | 1954766 | BA |
| Aroclor 1248 | 1948902 | 1954766 | BA |
| Aroclor 1248 | 1948902 | 1954766 | BA |
| Aroclor 1248 | 1948902 | 1954766 | BA |
| Aroclor 1254 | 1078650 | 1087902 | CO |
| Aroclor 1254 | 1078650 | 1087902 | CO |
| Aroclor 1254 | 1078650 | 1087902 | CO |
| Aroclor 1254 | 1078650 | 1087902 | CO |
| Aroclor 1254 | 1078650 | 1087902 | CO |
| Aroclor 1260 | 1485951 | 0 | CO |
| Aroclor 1260 | 1485951 | 0 | CO |
| Aroclor 1260 | 1485951 | 0 | CO |
| Aroclor 1260 | 1485951 | 0 | CO |
| Aroclor 1260 | 1485951 | 0 | CO |
| Tetrachloro-m-xylene | 2896498 | 2924875 | BA |
| Decachlorobiphenyl | 3349907 | 3349907 | |

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SAMPLE NO.

SW4-170830-01-MMSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158029003
Date Analyzed: 05/08/2018 18:34
Lab File ID: 050718.B\050718093.D
Initial wt/vol: 9.9914 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <57.0 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 274 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <57.0 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <57.0 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 1220 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 642 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 198 | J |
| 1336-36-3 | PCB, Total | 2340 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718093.D
Lab Smp Id: 40158029003 Client Smp ID: SW4-170830-01-MMSH-
Inj Date : 08-MAY-2018 18:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029003 x5,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 93
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.991 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 2.231 | 9703 | 10167 | 1.048 | 0.01 | | | |
| 2.378 | 13815 | 12424 | 0.899 | 0.02 | | | |
| 2.476 | 192659 | 150971 | 0.784 | 0.38 | | 1 Aroclor 1221 | BA |
| 2.550 | 2128982 | 2119440 | 0.996 | 4.28 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.756 | 18116 | 11532 | 0.637 | 0.03 | | 1 Aroclor 1221 | BA |
| 2.863 | 35264 | 27764 | 0.787 | 0.07 | | 1 Aroclor 1221 | BA |
| 2.924 | 91037 | 77354 | 0.850 | 0.18 | | 1 Aroclor 1221 | BA |
| 3.046 | 12457 | 17570 | 1.410 | 0.02 | | | |
| 3.064 | 25323 | 22918 | 0.905 | 0.05 | | | |
| 3.093 | 38918 | 39984 | 1.027 | 0.07 | | | |
| 3.131 | 248316 | 235855 | 0.950 | 0.49 | | | |
| 3.396 | 139273 | 137283 | 0.986 | 0.28 | | | |
| 3.423 | 190388 | 171863 | 0.903 | 0.38 | | | |
| 3.513 | 339408 | 313706 | 0.924 | 0.68 | | | |
| 3.599 | 287726 | 256504 | 0.891 | 0.57 | | | |
| 3.727 | 50726 | 39831 | 0.785 | 0.10 | | | |
| 3.814 | 333415 | 328029 | 0.984 | 0.67 | | | |
| 3.838 | 127914 | 117549 | 0.919 | 0.25 | | | |
| 3.895 | 813980 | 859751 | 1.056 | 1.63 | | | |
| 3.909 | 813784 | 844638 | 1.038 | 1.63 | | | |
| 4.021 | 253358 | 190802 | 0.753 | 0.50 | | | |
| 4.077 | 266414 | 245710 | 0.922 | 0.53 | | | |
| 4.142 | 146076 | 138401 | 0.947 | 0.29 | | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.220 | 21671 | 21358 | 0.986 | 0.04 | |
| 4.298 | 1873652 | 1733945 | 0.925 | 3.76 | |
| 4.345 | 2040473 | 1914427 | 0.938 | 4.10 | 6 Aroclor 1248 |
| 4.376 | 2095830 | 1721286 | 0.821 | 4.21 | |
| 4.432 | 32399 | 24257 | 0.749 | 0.06 | |
| 4.502 | 745949 | 713522 | 0.957 | 1.50 | |
| 4.537 | 641142 | 581754 | 0.907 | 1.28 | |
| 4.631 | 1355954 | 1284507 | 0.947 | 2.72 | 6 Aroclor 1248 |
| 4.673 | 164162 | 151392 | 0.922 | 0.33 | |
| 4.704 | 180633 | 166347 | 0.921 | 0.36 | |
| 4.764 | 117348 | 105282 | 0.897 | 0.23 | |
| 4.822 | 151756 | 117756 | 0.776 | 0.30 | |
| 4.853 | 328326 | 318055 | 0.969 | 0.66 | |
| 4.898 | 1176617 | 1124777 | 0.956 | 2.36 | 6 Aroclor 1248 |
| 4.933 | 992240 | 954738 | 0.962 | 1.99 | |
| 4.964 | 2350875 | 1491517 | 0.634 | 4.72 | 6 Aroclor 1248 |
| 5.043 | 522277 | 466217 | 0.893 | 1.05 | |
| 5.124 | 985005 | 918258 | 0.932 | 1.98 | 6 Aroclor 1248 |
| 5.187 | 862488 | 785480 | 0.911 | 1.73 | |
| 5.247 | 1616019 | 1411904 | 0.874 | 3.25 | 7 Aroclor 1254 |
| 5.298 | 1398203 | 1250974 | 0.895 | 2.81 | |
| 5.370 | 118841 | 113903 | 0.958 | 0.23 | |
| 5.395 | 278605 | 230270 | 0.827 | 0.56 | |
| 5.449 | 498372 | 464026 | 0.931 | 1.00 | |
| 5.493 | 1138638 | 1024860 | 0.900 | 2.29 | 7 Aroclor 1254 |
| 5.535 | 1056557 | 932512 | 0.883 | 2.12 | |
| 5.572 | 78475 | 104137 | 1.327 | 0.15 | |
| 5.596 | 1956227 | 1733848 | 0.886 | 3.93 | 7 Aroclor 1254 |
| 5.664 | 73846 | 63916 | 0.866 | 0.14 | |
| 5.692 | 298432 | 267095 | 0.895 | 0.60 | |
| 5.761 | 308252 | 285897 | 0.927 | 0.62 | |
| 5.799 | 222476 | 181424 | 0.815 | 0.44 | |
| 5.828 | 426338 | 302589 | 0.710 | 0.85 | |
| 5.878 | 2612214 | 2108828 | 0.807 | 5.74 | |
| 5.974 | 230938 | 183323 | 0.794 | 0.46 | |
| 6.018 | 189400 | 139678 | 0.737 | 0.38 | |
| 6.079 | 380692 | 343606 | 0.903 | 0.76 | |
| 6.111 | 1159125 | 1043872 | 0.901 | 2.33 | 7 Aroclor 1254 |
| 6.141 | 1695221 | 1487372 | 0.877 | 3.40 | |
| 6.255 | 316046 | 241536 | 0.764 | 0.63 | |
| 6.314 | 138331 | 147001 | 1.063 | 0.27 | |
| 6.330 | 193655 | 167438 | 0.865 | 0.38 | |
| 6.388 | 2243583 | 1879975 | 0.838 | 4.51 | 7 Aroclor 1254 |
| 6.421 | 209500 | 189105 | 0.903 | 0.42 | |
| 6.460 | 110794 | 95671 | 0.864 | 0.22 | |
| 6.519 | 164381 | 128944 | 0.784 | 0.33 | |
| 6.596 | 369517 | 346044 | 0.936 | 0.74 | |
| 6.624 | 506858 | 464970 | 0.917 | 1.01 | |
| 6.647 | 149015 | 142299 | 0.955 | 0.29 | |
| 6.692 | 97052 | 88188 | 0.909 | 0.19 | |
| 6.749 | 35557 | 31094 | 0.874 | 0.07 | |
| 6.806 | 147637 | 126366 | 0.856 | 0.29 | |
| 6.847 | 171576 | 151592 | 0.884 | 0.34 | |
| 6.888 | 321828 | 289666 | 0.900 | 0.64 | |
| 6.928 | 117891 | 97377 | 0.826 | 0.23 | |
| 6.996 | 26918 | 20061 | 0.745 | 0.05 | |
| 7.030 | 176733 | 152604 | 0.863 | 0.35 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.091 | 687065 | 633643 | 0.922 | 1.38 | 8 Aroclor 1260 |
| 7.120 | 50189 | 54673 | 1.089 | 0.10 | |
| 7.208 | 49830 | 27313 | 0.548 | 0.10 | |
| 7.267 | 18741 | 12344 | 0.659 | 0.03 | |
| 7.338 | 393618 | 345641 | 0.878 | 0.79 | 8 Aroclor 1260 |
| 7.368 | 153237 | 111891 | 0.730 | 0.30 | |
| 7.422 | 73688 | 36746 | 0.499 | 0.14 | |
| 7.477 | 176850 | 164243 | 0.929 | 0.35 | |
| 7.529 | 318004 | 243920 | 0.767 | 0.63 | 8 Aroclor 1260 |
| 7.632 | 44607 | 30916 | 0.693 | 0.08 | |
| 7.665 | 29939 | 20120 | 0.672 | 0.06 | |
| 7.748 | 21714 | 24928 | 1.148 | 0.04 | |
| 7.781 | 83437 | 71416 | 0.856 | 0.16 | |
| 7.814 | 72059 | 52238 | 0.725 | 0.14 | |
| 7.987 | 302061 | 246629 | 0.816 | 0.60 | 8 Aroclor 1260 |
| 8.049 | 39311 | 24122 | 0.614 | 0.07 | |
| 8.361 | 205871 | 186719 | 0.907 | 0.41 | |
| 8.658 | 2519316 | 2224964 | 0.883 | 5.06 | $ 12 Decachlorobiphenyl |
| 9.255 | 26503 | 22148 | 0.836 | 0.05 | |
| | 49715631 | 43933500 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718093.D
Lab Smp Id: 40158029003 Client Smp ID: SW4-170830-01-MMSH-
Inj Date : 08-MAY-2018 18:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029003 x5,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 93
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.991 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 2.476 | 2.471 | 0.005 | 192658 | 0.36545 | 910 | 0.00- 20.00 | 0.00 | BA |
| 2.755 | 2.758 | -0.003 | 18116 | 0.01306 | 33 | 0.00- 20.00 | 0.00 | BA |
| 2.862 | 2.860 | 0.002 | 35264 | 0.03196 | 80 | 0.00- 20.00 | 0.00 | BA |
| 2.923 | 2.923 | 0.000 | 91036 | 0.02723 | 68 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 270 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 2128981 | 0.01768 | 44 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 2040472 | 0.85542 | 2100 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 1355954 | 0.31924 | 800 | 0.00- 20.00 | 66.45 | BA |
| 4.898 | 4.898 | 0.000 | 1176617 | 0.57761 | 1400 | 0.00- 20.00 | 57.66 | BA |
| 4.963 | 4.963 | 0.000 | 2350874 | 0.42920 | 1100 | 0.00- 20.00 | 115.21 | BA |
| 5.123 | 5.123 | 0.000 | 985005 | 0.26036 | 650 | 0.00- 20.00 | 48.27 | BA |
| Average of Peak Concentrations = | | | | | 1200 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1616019 | 0.28655 | 720 | 0.00- 20.00 | 100.00(M) | CO |
| 5.493 | 5.492 | 0.001 | 1138638 | 0.24415 | 610 | 0.00- 20.00 | 70.46 | CO |
| 5.595 | 5.596 | -0.001 | 1956226 | 0.22848 | 570 | 0.00- 20.00 | 121.05 | CO |
| 6.111 | 6.113 | -0.002 | 1159124 | 0.21817 | 540 | 0.00- 20.00 | 71.73 | CO |
| 6.387 | 6.387 | 0.000 | 2243582 | 0.30645 | 770 | 0.00- 20.00 | 138.83 | CO |
| Average of Peak Concentrations = | | | | | 640 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | CO |
| 7.090 | 7.090 | 0.000 | 687064 | 0.05838 | 150 | 0.00- 20.00 | 32.82 | CO |
| 7.336 | 7.338 | -0.002 | 393618 | 0.06959 | 170 | 0.00- 20.00 | 17.54 | CO |
| 7.528 | 7.529 | -0.001 | 318004 | 0.09302 | 230 | 0.00- 20.00 | 14.17 | CO |
| 7.987 | 7.987 | 0.000 | 302060 | 0.09537 | 240 | 0.00- 20.00 | 13.46 | CO |
| Average of Peak Concentrations = | | | | | 200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 2519315 | 0.01892 | 47 | | | |

QC Flag Legend

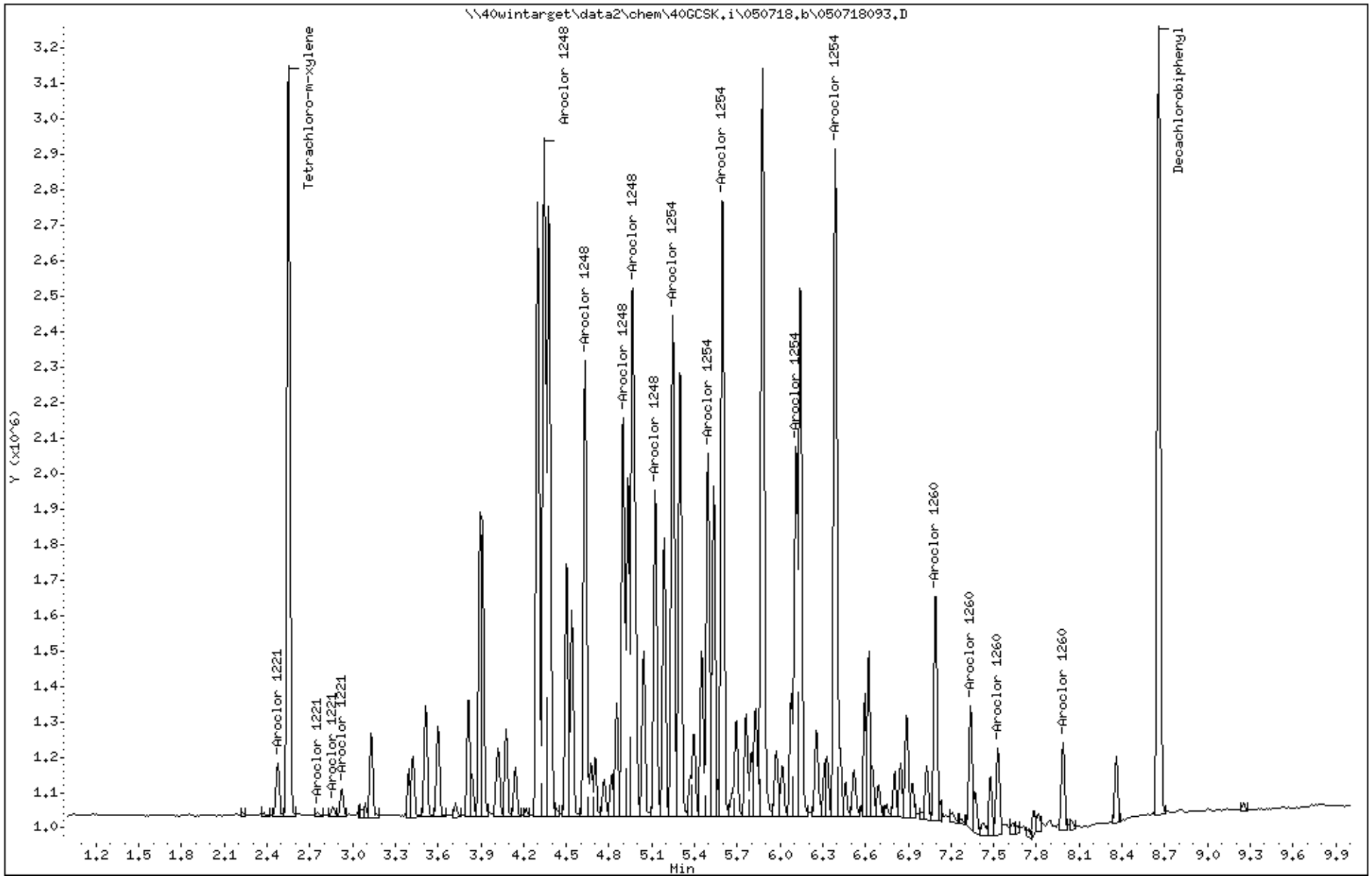
M - Compound response manually integrated.

Review Codes Legend

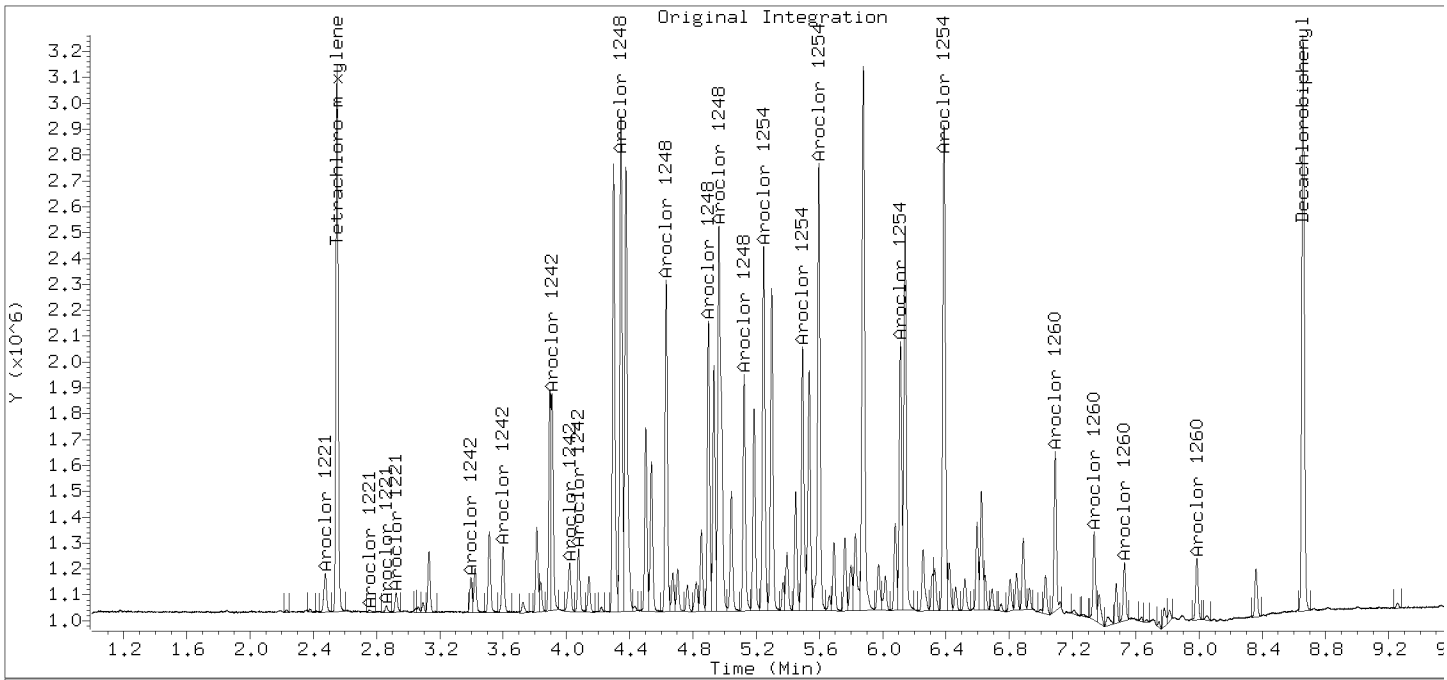
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

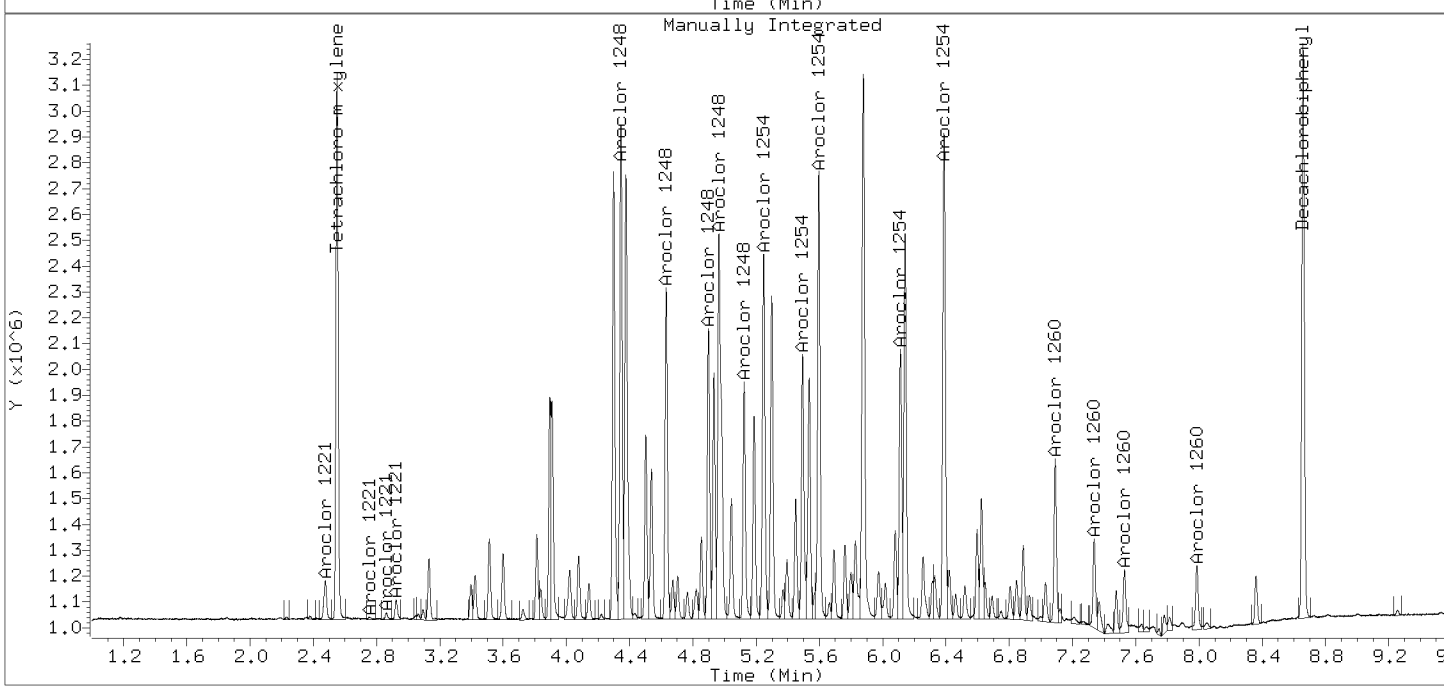
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718093.D
Date : 08-MAY-2018 18:34
Client ID: SW4-170830-01-MMSH-
Sample Info: 40158029003 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718093.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 18:34 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029003




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 139272 | 0 | |
| Aroclor 1016 | 139272 | 0 | |
| Aroclor 1016 | 139272 | 0 | |
| Aroclor 1016 | 139272 | 0 | |
| Aroclor 1016 | 139272 | 0 | |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1232 | 84013 | 0 | |
| Aroclor 1232 | 84013 | 0 | |
| Aroclor 1232 | 84013 | 0 | |
| Aroclor 1232 | 84013 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 84013 | 0 | |
| Aroclor 1242 | 139272 | 0 | |
| Aroclor 1242 | 139272 | 0 | |
| Aroclor 1242 | 139272 | 0 | |
| Aroclor 1242 | 139272 | 0 | |
| Aroclor 1242 | 139272 | 0 | |
| Aroclor 1248 | 2031345 | 2040472 | BA |
| Aroclor 1248 | 2031345 | 2040472 | BA |
| Aroclor 1248 | 2031345 | 2040472 | BA |
| Aroclor 1248 | 2031345 | 2040472 | BA |
| Aroclor 1248 | 2031345 | 2040472 | BA |
| Aroclor 1254 | 1600131 | 1616019 | CO |
| Aroclor 1254 | 1600131 | 1616019 | CO |
| Aroclor 1254 | 1600131 | 1616019 | CO |
| Aroclor 1254 | 1600131 | 1616019 | CO |
| Aroclor 1254 | 1600131 | 1616019 | CO |
| Aroclor 1260 | 2227946 | 0 | CO |
| Aroclor 1260 | 2227946 | 0 | CO |
| Aroclor 1260 | 2227946 | 0 | CO |
| Aroclor 1260 | 2227946 | 0 | CO |
| Aroclor 1260 | 2227946 | 0 | CO |
| Tetrachloro-m-xylene | 2110838 | 2128981 | BA |
| Decachlorobiphenyl | 2519315 | 2519315 | |

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SAMPLE NO.

SW4-170830-01-GOSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158029004
Date Analyzed: 05/07/2018 20:11
Lab File ID: 050718.B\050718027.D
Initial wt/vol: 10.0264 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <56.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 277 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <56.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <56.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 890 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 334 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 97.0 | J |
| 1336-36-3 | PCB, Total | 1600 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718027.D
Lab Smp Id: 40158029004 Client Smp ID: SW4-170830-01-GOSH-
Inj Date : 07-MAY-2018 20:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029004 x5,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.026 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 1.853 | 13799 | 12726 | 0.922 | 0.03 | | 1 Aroclor 1221 | BA |
| 2.474 | 239730 | 191542 | 0.799 | 0.68 | | 1 Aroclor 1221 | BA |
| 2.549 | 2262263 | 2267888 | 1.002 | 6.48 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.754 | 23738 | 17896 | 0.754 | 0.06 | | 1 Aroclor 1221 | BA |
| 2.861 | 39150 | 31858 | 0.814 | 0.11 | | 1 Aroclor 1221 | BA |
| 2.922 | 117215 | 103251 | 0.881 | 0.33 | | 1 Aroclor 1221 | BA |
| 3.043 | 11440 | 15445 | 1.350 | 0.03 | | | |
| 3.063 | 23947 | 26187 | 1.094 | 0.06 | | | |
| 3.091 | 51823 | 49917 | 0.963 | 0.14 | | | |
| 3.130 | 295975 | 285801 | 0.966 | 0.84 | | | |
| 3.394 | 209564 | 206250 | 0.984 | 0.60 | | | |
| 3.422 | 223073 | 205919 | 0.923 | 0.63 | | | |
| 3.512 | 394824 | 369312 | 0.935 | 1.13 | | | |
| 3.599 | 350965 | 324355 | 0.924 | 1.00 | | | |
| 3.725 | 59992 | 50621 | 0.844 | 0.17 | | | |
| 3.812 | 382522 | 369999 | 0.967 | 1.09 | | | |
| 3.836 | 155124 | 147555 | 0.951 | 0.44 | | | |
| 3.895 | 806306 | 833318 | 1.034 | 2.31 | | | |
| 3.907 | 730629 | 760224 | 1.041 | 2.09 | | | |
| 4.021 | 378153 | 306536 | 0.811 | 1.08 | | | |
| 4.077 | 271243 | 243117 | 0.896 | 0.77 | | | |
| 4.142 | 147191 | 135405 | 0.920 | 0.42 | | | |
| 4.221 | 30828 | 27847 | 0.903 | 0.08 | | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.297 | 1595024 | 1462466 | 0.917 | 4.57 | |
| 4.343 | 1646938 | 1555339 | 0.944 | 4.72 | 6 Aroclor 1248 |
| 4.375 | 1694264 | 1424060 | 0.841 | 4.85 | |
| 4.432 | 29948 | 24384 | 0.814 | 0.08 | |
| 4.501 | 591698 | 566046 | 0.957 | 1.69 | |
| 4.536 | 516013 | 450541 | 0.873 | 1.48 | |
| 4.630 | 1094594 | 1010112 | 0.923 | 3.13 | 6 Aroclor 1248 |
| 4.672 | 125282 | 115275 | 0.920 | 0.35 | |
| 4.704 | 151699 | 132955 | 0.876 | 0.43 | |
| 4.763 | 95500 | 85663 | 0.897 | 0.27 | |
| 4.820 | 121487 | 87395 | 0.719 | 0.34 | |
| 4.852 | 209278 | 195155 | 0.933 | 0.60 | |
| 4.897 | 725156 | 706269 | 0.974 | 2.07 | 6 Aroclor 1248 |
| 4.932 | 672230 | 641612 | 0.954 | 1.92 | |
| 4.964 | 1629992 | 973692 | 0.597 | 4.67 | 6 Aroclor 1248 |
| 5.042 | 349409 | 306375 | 0.877 | 1.00 | |
| 5.123 | 689032 | 646958 | 0.939 | 1.97 | 6 Aroclor 1248 |
| 5.185 | 579633 | 526086 | 0.908 | 1.66 | |
| 5.245 | 905887 | 792416 | 0.875 | 2.59 | 7 Aroclor 1254 |
| 5.297 | 756489 | 664836 | 0.879 | 2.16 | |
| 5.368 | 73452 | 72306 | 0.984 | 0.21 | |
| 5.393 | 179132 | 143765 | 0.803 | 0.51 | |
| 5.448 | 264732 | 239733 | 0.906 | 0.75 | |
| 5.492 | 609148 | 559970 | 0.919 | 1.74 | 7 Aroclor 1254 |
| 5.533 | 520676 | 443083 | 0.851 | 1.49 | |
| 5.575 | 2999 | 75020 | 25.016 | 0.00 | |
| 5.595 | 1124162 | 1002156 | 0.891 | 3.22 | 7 Aroclor 1254 |
| 5.660 | 45895 | 41120 | 0.896 | 0.13 | |
| 5.690 | 168259 | 146141 | 0.869 | 0.48 | |
| 5.760 | 213224 | 197868 | 0.928 | 0.61 | |
| 5.796 | 149529 | 114403 | 0.765 | 0.42 | |
| 5.827 | 208563 | 159070 | 0.763 | 0.59 | |
| 5.875 | 1323128 | 1062406 | 0.803 | 3.79 | |
| 5.971 | 147087 | 100759 | 0.685 | 0.42 | |
| 6.014 | 93458 | 77542 | 0.830 | 0.26 | |
| 6.078 | 203101 | 184380 | 0.908 | 0.58 | |
| 6.112 | 533716 | 479637 | 0.899 | 1.53 | 7 Aroclor 1254 |
| 6.140 | 808237 | 696468 | 0.862 | 2.31 | |
| 6.254 | 169681 | 116912 | 0.689 | 0.48 | |
| 6.313 | 76028 | 73068 | 0.961 | 0.21 | |
| 6.328 | 106297 | 88506 | 0.833 | 0.30 | |
| 6.386 | 1072581 | 892823 | 0.832 | 3.07 | 7 Aroclor 1254 |
| 6.419 | 102172 | 90097 | 0.882 | 0.29 | |
| 6.461 | 57608 | 45089 | 0.783 | 0.16 | |
| 6.517 | 102774 | 77792 | 0.757 | 0.29 | |
| 6.596 | 206923 | 189124 | 0.914 | 0.59 | |
| 6.624 | 233894 | 210212 | 0.899 | 0.67 | |
| 6.647 | 69666 | 70057 | 1.006 | 0.19 | |
| 6.690 | 48381 | 37464 | 0.774 | 0.13 | |
| 6.743 | 21456 | 17904 | 0.834 | 0.06 | |
| 6.804 | 85242 | 70939 | 0.832 | 0.24 | |
| 6.844 | 99553 | 84691 | 0.851 | 0.28 | |
| 6.886 | 147378 | 123578 | 0.839 | 0.42 | |
| 6.927 | 72851 | 50354 | 0.691 | 0.20 | |
| 7.029 | 95000 | 77096 | 0.812 | 0.27 | |
| 7.090 | 315227 | 277598 | 0.881 | 0.90 | 8 Aroclor 1260 |
| 7.118 | 24250 | 29144 | 1.202 | 0.06 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.337 | 186280 | 160339 | 0.861 | 0.53 | 8 Aroclor 1260 |
| 7.367 | 85112 | 58777 | 0.691 | 0.24 | |
| 7.423 | 59638 | 31646 | 0.531 | 0.17 | |
| 7.475 | 95543 | 88003 | 0.921 | 0.27 | |
| 7.528 | 183335 | 125806 | 0.686 | 0.52 | 8 Aroclor 1260 |
| 7.631 | 26013 | 18365 | 0.706 | 0.07 | |
| 7.663 | 17262 | 14443 | 0.837 | 0.04 | |
| 7.745 | 29374 | 32185 | 1.096 | 0.08 | |
| 7.781 | 51114 | 42066 | 0.823 | 0.14 | |
| 7.812 | 46831 | 34781 | 0.743 | 0.13 | |
| 7.983 | 134112 | 111061 | 0.828 | 0.38 | 8 Aroclor 1260 |
| 8.359 | 114273 | 101945 | 0.892 | 0.32 | |
| 8.656 | 2625381 | 2321022 | 0.884 | 8.05 | $ 12 Decachlorobiphenyl |
| 9.255 | 15841 | 14162 | 0.894 | 0.04 | |
| 9.527 | 19261 | 13949 | 0.724 | 0.05 | |
| | 34863874 | 30937429 | | 100.000 | |

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718027.D
Lab Smp Id: 40158029004 Client Smp ID: SW4-170830-01-GOSH-
Inj Date : 07-MAY-2018 20:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029004 x5,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.026 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.852 | 1.853 | -0.001 | 13799 | 0.01393 | 35 | 0.00- 20.00 | 100.00(M) | BA |
| 2.473 | 2.471 | 0.002 | 239730 | 0.45474 | 1100 | 0.00- 20.00 | 1737.30 | BA |
| 2.754 | 2.758 | -0.004 | 23737 | 0.01711 | 43 | 0.00- 20.00 | 172.02 | BA |
| 2.861 | 2.860 | 0.001 | 39150 | 0.03548 | 88 | 0.00- 20.00 | 283.72 | BA |
| 2.922 | 2.923 | -0.001 | 117214 | 0.03506 | 87 | 0.00- 20.00 | 849.44 | BA |
| Average of Peak Concentrations = | | | | | 280 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 2262263 | 0.01878 | 47 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (ug/Kg)   TARGET RANGE    RATIO         REVIEW CODE
 ==== ======== ========        ======== =======  =======   ============    =====         ===========

    4 Aroclor 1232                                CAS #: 1114-16-5

Operator disabled compound identification.
-------------------------------------------------------------------------------
    5 Aroclor 1016                                CAS #: 12674-11-2

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.343    4.343    0.000         1646938 0.69044     1700   0.00-  20.00   100.00(M)      BA
4.629    4.630   -0.001         1094594 0.25771      640   0.00-  20.00    66.46         BA
4.897    4.898   -0.001          725155 0.35598      890   0.00-  20.00    44.03         BA
4.964    4.963    0.001         1629992 0.29759      740   0.00-  20.00    98.97         BA
5.122    5.123   -0.001          689032 0.18213      450   0.00-  20.00    41.84         BA
               Average of Peak Concentrations =      890
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.245    5.248   -0.003          905886 0.16063      400   0.00-  20.00   100.00(M)      CO
5.491    5.492   -0.001          609147 0.13061      320   0.00-  20.00    67.24         CO
5.595    5.596   -0.001         1124161 0.13130      330   0.00-  20.00   124.10         CO
6.111    6.113   -0.002          533716 0.10046      250   0.00-  20.00    58.92         CO
6.385    6.387   -0.002         1072581 0.14651      360   0.00-  20.00   118.40         CO
               Average of Peak Concentrations =      330
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.387    6.387    0.000               0    0.00     0.00   0.00-  20.00     0.00(M)      CO
7.089    7.090   -0.001          315226 0.02678       67   0.00-  20.00    31.61         CO
7.337    7.338   -0.001          186279 0.03293       82   0.00-  20.00    17.37         CO
7.527    7.529   -0.002          183334 0.05362      130   0.00-  20.00    17.09         CO
7.983    7.987   -0.004          134111 0.04235      100   0.00-  20.00    12.50         CO
               Average of Peak Concentrations =       97
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.656    8.657   -0.001         2625380 0.01971       49
-------------------------------------------------------------------------------
```

QC Flag Legend

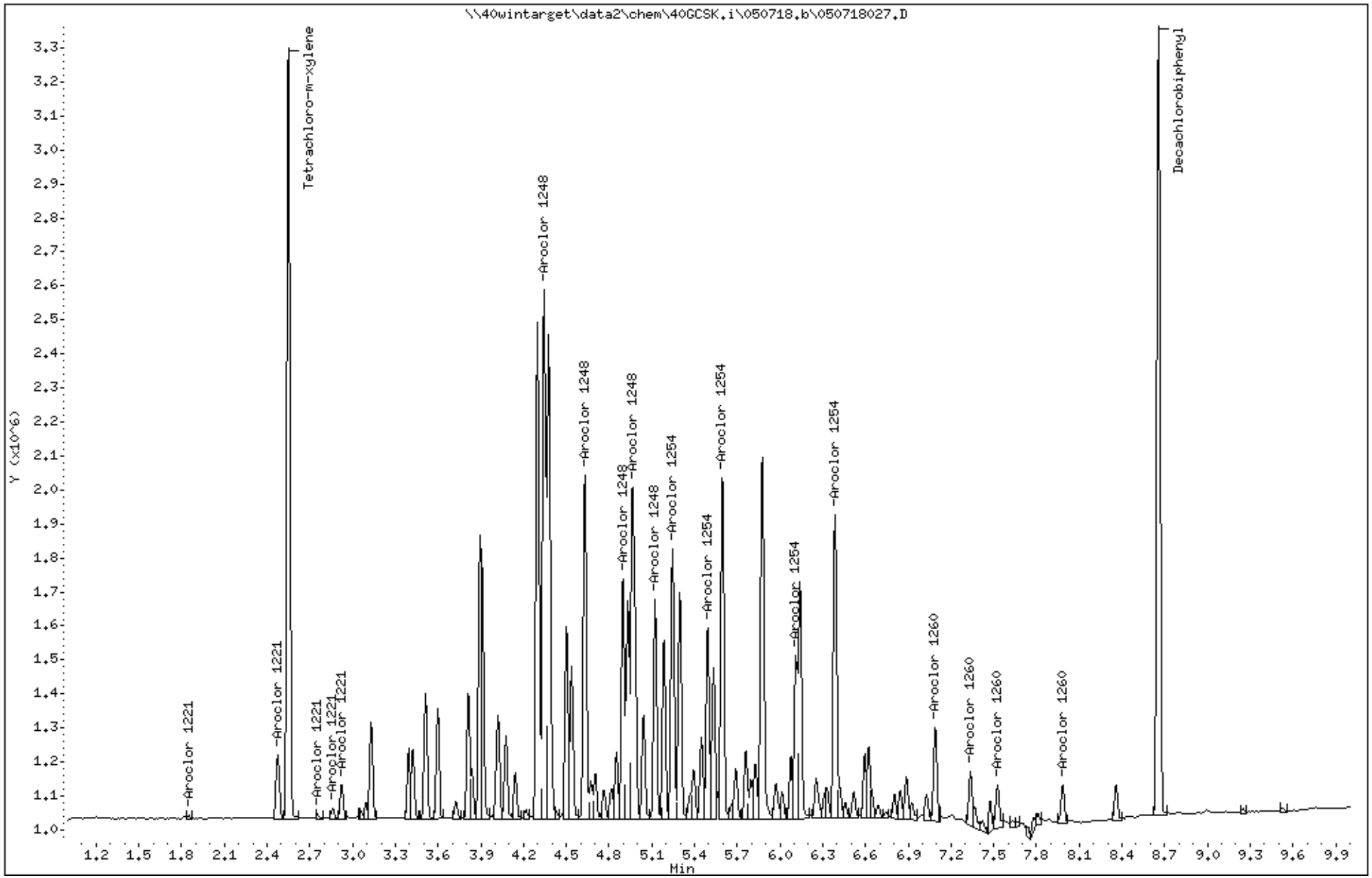
M - Compound response manually integrated.

Review Codes Legend

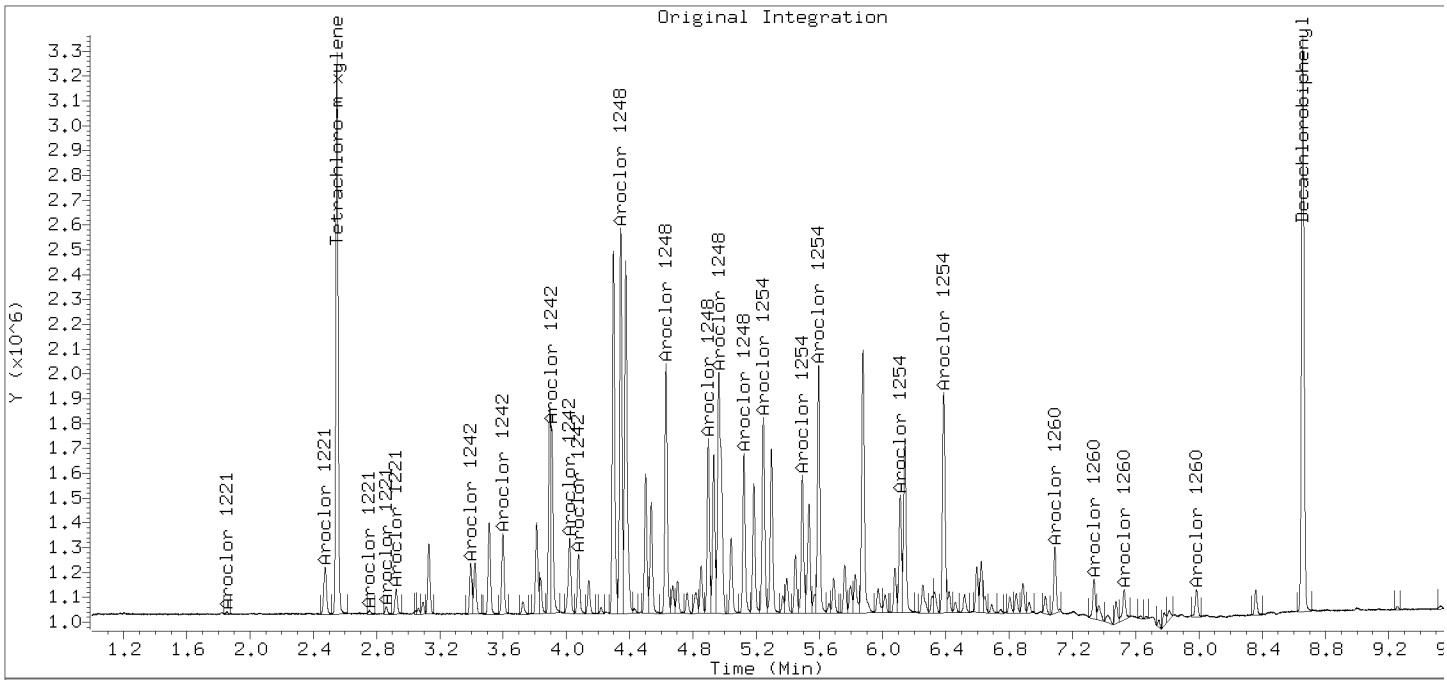
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

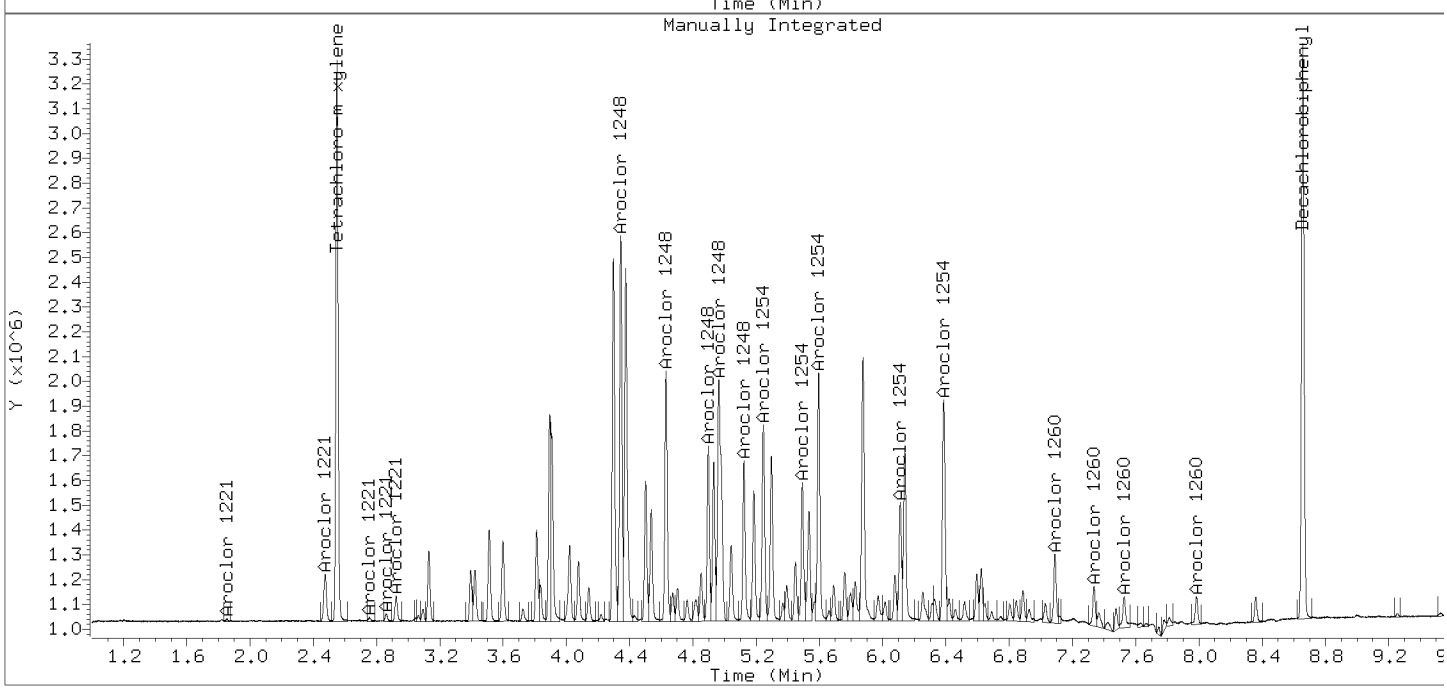
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718027.D
Date : 07-MAY-2018 20:11
Client ID: SW4-170830-01-GOSH-
Sample Info: 40158029004 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 20:11 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029004




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 209563 | 0 | |
| Aroclor 1016 | 209563 | 0 | |
| Aroclor 1016 | 209563 | 0 | |
| Aroclor 1016 | 209563 | 0 | |
| Aroclor 1016 | 209563 | 0 | |
| Aroclor 1221 | 12696 | 13799 | BA |
| Aroclor 1221 | 12696 | 13799 | BA |
| Aroclor 1221 | 12696 | 13799 | BA |
| Aroclor 1221 | 12696 | 13799 | BA |
| Aroclor 1221 | 12696 | 13799 | BA |
| Aroclor 1232 | 110352 | 0 | |
| Aroclor 1232 | 110352 | 0 | |
| Aroclor 1232 | 110352 | 0 | |
| Aroclor 1232 | 110352 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 110352 | 0 | |
| Aroclor 1242 | 209563 | 0 | |
| Aroclor 1242 | 209563 | 0 | |
| Aroclor 1242 | 209563 | 0 | |
| Aroclor 1242 | 209563 | 0 | |
| Aroclor 1242 | 209563 | 0 | |
| Aroclor 1248 | 1639458 | 1646938 | BA |
| Aroclor 1248 | 1639458 | 1646938 | BA |
| Aroclor 1248 | 1639458 | 1646938 | BA |
| Aroclor 1248 | 1639458 | 1646938 | BA |
| Aroclor 1248 | 1639458 | 1646938 | BA |
| Aroclor 1254 | 895994 | 905886 | CO |
| Aroclor 1254 | 895994 | 905886 | CO |
| Aroclor 1254 | 895994 | 905886 | CO |
| Aroclor 1254 | 895994 | 905886 | CO |
| Aroclor 1254 | 895994 | 905886 | CO |
| Aroclor 1260 | 1061775 | 0 | CO |
| Aroclor 1260 | 1061775 | 0 | CO |
| Aroclor 1260 | 1061775 | 0 | CO |
| Aroclor 1260 | 1061775 | 0 | CO |
| Aroclor 1260 | 1061775 | 0 | CO |
| Tetrachloro-m-xylene | 2246779 | 2262263 | BA |
| Decachlorobiphenyl | 2625380 | 2625380 | |

==========

SAMPLE NO.

AT1-170830-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158029005
Date Analyzed: 05/08/2018 03:34
Lab File ID: 050718.B\050718055.D
Initial wt/vol: 9.9689 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.9 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <22.9 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.9 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.9 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 176 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 103 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 92.0 | J |
| 1336-36-3 | PCB, Total | 371 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718055.D
Lab Smp Id: 40158029005 Client Smp ID: AT1-170830-01-SPSH-
Inj Date : 08-MAY-2018 03:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029005 x2,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 55
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.969 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.178 | 9964 | 11753 | 1.180 | 0.02 | | |
| 1.206 | 12915 | 14040 | 1.087 | 0.03 | | |
| 1.732 | 13427 | 11207 | 0.835 | 0.03 | | |
| 1.822 | 10127 | 11314 | 1.117 | 0.02 | | |
| 2.004 | 14117 | 12822 | 0.908 | 0.03 | | |
| 2.064 | 9882 | 10404 | 1.053 | 0.02 | | |
| 2.423 | 13051 | 12492 | 0.957 | 0.03 | | |
| 2.476 | 96606 | 89356 | 0.925 | 0.26 | | |
| 2.550 | 5838808 | 5942592 | 1.018 | 15.72 | $ 2 Tetrachloro-m-xylene | |
| 2.860 | 18429 | 15175 | 0.823 | 0.04 | | |
| 2.925 | 32707 | 23093 | 0.706 | 0.08 | | |
| 3.048 | 56560 | 34992 | 0.619 | 0.15 | | |
| 3.094 | 114773 | 119015 | 1.037 | 0.30 | | |
| 3.131 | 44618 | 48148 | 1.079 | 0.12 | | |
| 3.398 | 20603 | 18876 | 0.916 | 0.05 | 5 Aroclor 1016 | BA |
| 3.421 | 32440 | 27359 | 0.843 | 0.08 | | |
| 3.513 | 50607 | 44162 | 0.873 | 0.13 | | |
| 3.599 | 26769 | 27874 | 1.041 | 0.07 | 5 Aroclor 1016 | BA |
| 3.676 | 10443 | 7968 | 0.763 | 0.02 | | |
| 3.726 | 23998 | 17100 | 0.713 | 0.06 | | |
| 3.813 | 194851 | 185419 | 0.952 | 0.52 | | |
| 3.838 | 83759 | 70531 | 0.842 | 0.22 | | |
| 3.895 | 701628 | 419759 | 0.598 | 1.88 | 5 Aroclor 1016 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.022 | 72674 | 31056 | 0.427 | 0.19 | 5 Aroclor 1016 |
| 4.078 | 120281 | 98357 | 0.818 | 0.32 | 5 Aroclor 1016 |
| 4.141 | 90782 | 62485 | 0.688 | 0.24 | |
| 4.298 | 847423 | 796929 | 0.940 | 2.28 | |
| 4.345 | 827954 | 805446 | 0.973 | 2.22 | 6 Aroclor 1248 |
| 4.376 | 822609 | 713429 | 0.867 | 2.21 | |
| 4.433 | 46484 | 28352 | 0.610 | 0.12 | |
| 4.503 | 378049 | 337878 | 0.894 | 1.01 | |
| 4.537 | 292776 | 252976 | 0.864 | 0.78 | |
| 4.631 | 488967 | 458523 | 0.938 | 1.31 | 6 Aroclor 1248 |
| 4.673 | 64008 | 54128 | 0.846 | 0.17 | |
| 4.704 | 110851 | 89758 | 0.810 | 0.29 | |
| 4.765 | 60904 | 45426 | 0.746 | 0.16 | |
| 4.820 | 86436 | 60153 | 0.696 | 0.23 | |
| 4.854 | 115842 | 101427 | 0.876 | 0.31 | |
| 4.899 | 333687 | 300304 | 0.900 | 0.89 | 6 Aroclor 1248 |
| 4.933 | 342417 | 312874 | 0.914 | 0.92 | |
| 4.979 | 868675 | 460520 | 0.530 | 2.33 | 6 Aroclor 1248 |
| 5.042 | 224519 | 199078 | 0.887 | 0.60 | |
| 5.124 | 343365 | 292727 | 0.853 | 0.92 | 6 Aroclor 1248 |
| 5.186 | 441405 | 397232 | 0.900 | 1.18 | |
| 5.247 | 750260 | 631854 | 0.842 | 2.02 | 7 Aroclor 1254 |
| 5.298 | 598453 | 486655 | 0.813 | 1.61 | |
| 5.370 | 73685 | 60933 | 0.827 | 0.19 | |
| 5.399 | 248462 | 203691 | 0.820 | 0.66 | |
| 5.449 | 224141 | 199716 | 0.891 | 0.60 | |
| 5.493 | 437670 | 381978 | 0.873 | 1.17 | 7 Aroclor 1254 |
| 5.536 | 724326 | 673527 | 0.930 | 1.95 | |
| 5.568 | 87221 | 81422 | 0.934 | 0.23 | |
| 5.596 | 855066 | 748028 | 0.875 | 2.30 | 7 Aroclor 1254 |
| 5.663 | 47913 | 41111 | 0.858 | 0.12 | |
| 5.692 | 119773 | 97506 | 0.814 | 0.32 | |
| 5.760 | 240063 | 221239 | 0.922 | 0.64 | |
| 5.796 | 166244 | 126041 | 0.758 | 0.44 | |
| 5.827 | 199008 | 138039 | 0.694 | 0.53 | |
| 5.875 | 1130020 | 927931 | 0.821 | 3.04 | |
| 5.908 | 116688 | 90539 | 0.776 | 0.31 | |
| 5.971 | 159169 | 86846 | 0.546 | 0.42 | |
| 6.015 | 95188 | 78583 | 0.826 | 0.25 | |
| 6.078 | 287961 | 264012 | 0.917 | 0.77 | |
| 6.113 | 454838 | 392338 | 0.863 | 1.22 | 7 Aroclor 1254 |
| 6.141 | 1218967 | 1054910 | 0.865 | 3.28 | |
| 6.254 | 287905 | 185064 | 0.643 | 0.77 | |
| 6.314 | 90007 | 91954 | 1.022 | 0.24 | |
| 6.329 | 138404 | 111134 | 0.803 | 0.37 | |
| 6.386 | 1370996 | 1166801 | 0.851 | 3.69 | 8 Aroclor 1260 |
| 6.420 | 158102 | 140924 | 0.891 | 0.42 | |
| 6.460 | 70876 | 56106 | 0.792 | 0.19 | |
| 6.518 | 153167 | 118522 | 0.774 | 0.41 | |
| 6.569 | 15524 | 20461 | 1.318 | 0.04 | |
| 6.596 | 477552 | 444797 | 0.931 | 1.28 | |
| 6.623 | 260739 | 243214 | 0.933 | 0.70 | |
| 6.647 | 191235 | 171407 | 0.896 | 0.51 | |
| 6.689 | 44565 | 41456 | 0.930 | 0.12 | |
| 6.745 | 43995 | 36123 | 0.821 | 0.11 | |
| 6.803 | 206728 | 186351 | 0.901 | 0.55 | |
| 6.845 | 213927 | 177860 | 0.831 | 0.57 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.887 | 224830 | 183802 | 0.818 | 0.60 | |
| 6.927 | 133300 | 89211 | 0.669 | 0.35 | |
| 6.997 | 48079 | 37094 | 0.772 | 0.12 | |
| 7.029 | 684448 | 628268 | 0.918 | 1.84 | |
| 7.090 | 880127 | 779885 | 0.886 | 2.37 | 8 Aroclor 1260 |
| 7.120 | 64300 | 73918 | 1.150 | 0.17 | |
| 7.208 | 100329 | 48913 | 0.488 | 0.27 | |
| 7.263 | 43167 | 23123 | 0.536 | 0.11 | |
| 7.337 | 352550 | 308420 | 0.875 | 0.94 | 8 Aroclor 1260 |
| 7.368 | 168175 | 115787 | 0.688 | 0.45 | |
| 7.421 | 81472 | 44181 | 0.542 | 0.21 | |
| 7.476 | 220010 | 204874 | 0.931 | 0.59 | |
| 7.527 | 358619 | 255317 | 0.712 | 0.96 | 8 Aroclor 1260 |
| 7.632 | 43055 | 26589 | 0.618 | 0.11 | |
| 7.668 | 31111 | 22905 | 0.736 | 0.08 | |
| 7.699 | 30354 | 21418 | 0.706 | 0.08 | |
| 7.744 | 28340 | 28739 | 1.014 | 0.07 | |
| 7.779 | 95770 | 82673 | 0.863 | 0.25 | |
| 7.812 | 120555 | 82970 | 0.688 | 0.32 | |
| 7.845 | 46679 | 32880 | 0.704 | 0.12 | |
| 7.899 | 165831 | 109196 | 0.658 | 0.44 | |
| 7.950 | 37025 | 26978 | 0.729 | 0.09 | |
| 7.986 | 252054 | 199498 | 0.791 | 0.67 | 8 Aroclor 1260 |
| 8.045 | 55341 | 25084 | 0.453 | 0.14 | |
| 8.092 | 10839 | 10568 | 0.975 | 0.02 | |
| 8.137 | 32000 | 24353 | 0.761 | 0.08 | |
| 8.360 | 204694 | 179939 | 0.879 | 0.55 | |
| 8.657 | 6121595 | 5355480 | 0.875 | 17.10 | $ 12 Decachlorobiphenyl |
| 8.812 | 61199 | 44589 | 0.729 | 0.16 | |
| 8.996 | 14152 | 10832 | 0.765 | 0.03 | |
| 9.138 | 21865 | 22582 | 1.033 | 0.05 | |
| 9.252 | 11132 | 9798 | 0.880 | 0.02 | |
| 9.521 | 18303 | 12655 | 0.691 | 0.04 | |
| | 37131329 | 32376101 | | 100.000 | |

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718055.D
Lab Smp Id: 40158029005 Client Smp ID: AT1-170830-01-SPSH-
Inj Date : 08-MAY-2018 03:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029005 x2,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 55
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.969 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | |
| 2.550 | 2.549 | 0.001 | 5838808 | 0.04848 | 49 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Qualifier signal(s) failed ratio test. | | | | | | | | BA |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 827954 | 0.34710 | 350 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 488966 | 0.11512 | 120 | 0.00- 20.00 | 59.06 | BA |
| 4.898 | 4.898 | 0.000 | 333687 | 0.16381 | 160 | 0.00- 20.00 | 40.30 | BA |
| 4.978 | 4.963 | 0.015 | 868675 | 0.15859 | 160 | 0.00- 20.00 | 104.92 | BA |
| 5.123 | 5.123 | 0.000 | 343365 | 0.09076 | 91 | 0.00- 20.00 | 41.47 | BA |
| Average of Peak Concentrations = | | | | | 180 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 750259 | 0.13303 | 130 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 437670 | 0.09384 | 94 | 0.00- 20.00 | 58.34 | BA |
| 5.595 | 5.596 | -0.001 | 855066 | 0.09987 | 100 | 0.00- 20.00 | 113.97 | BA |
| 6.112 | 6.113 | -0.001 | 454837 | 0.08561 | 86 | 0.00- 20.00 | 60.62 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 100 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.385 | 6.387 | -0.002 | 1370996 | 0.13696 | 140 | 0.00- 20.00 | 100.00(M) | CO |
| 7.089 | 7.090 | -0.001 | 880126 | 0.07478 | 75 | 0.00- 20.00 | 64.20 | CO |
| 7.337 | 7.338 | -0.001 | 352550 | 0.06233 | 62 | 0.00- 20.00 | 25.71 | CO |
| 7.526 | 7.529 | -0.003 | 358619 | 0.10490 | 100 | 0.00- 20.00 | 26.16 | CO |
| 7.986 | 7.987 | -0.001 | 252054 | 0.07959 | 80 | 0.00- 20.00 | 18.38 | CO |
| Average of Peak Concentrations = | | | | | 92 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 6121594 | 0.04596 | 46 | | | |

QC Flag Legend

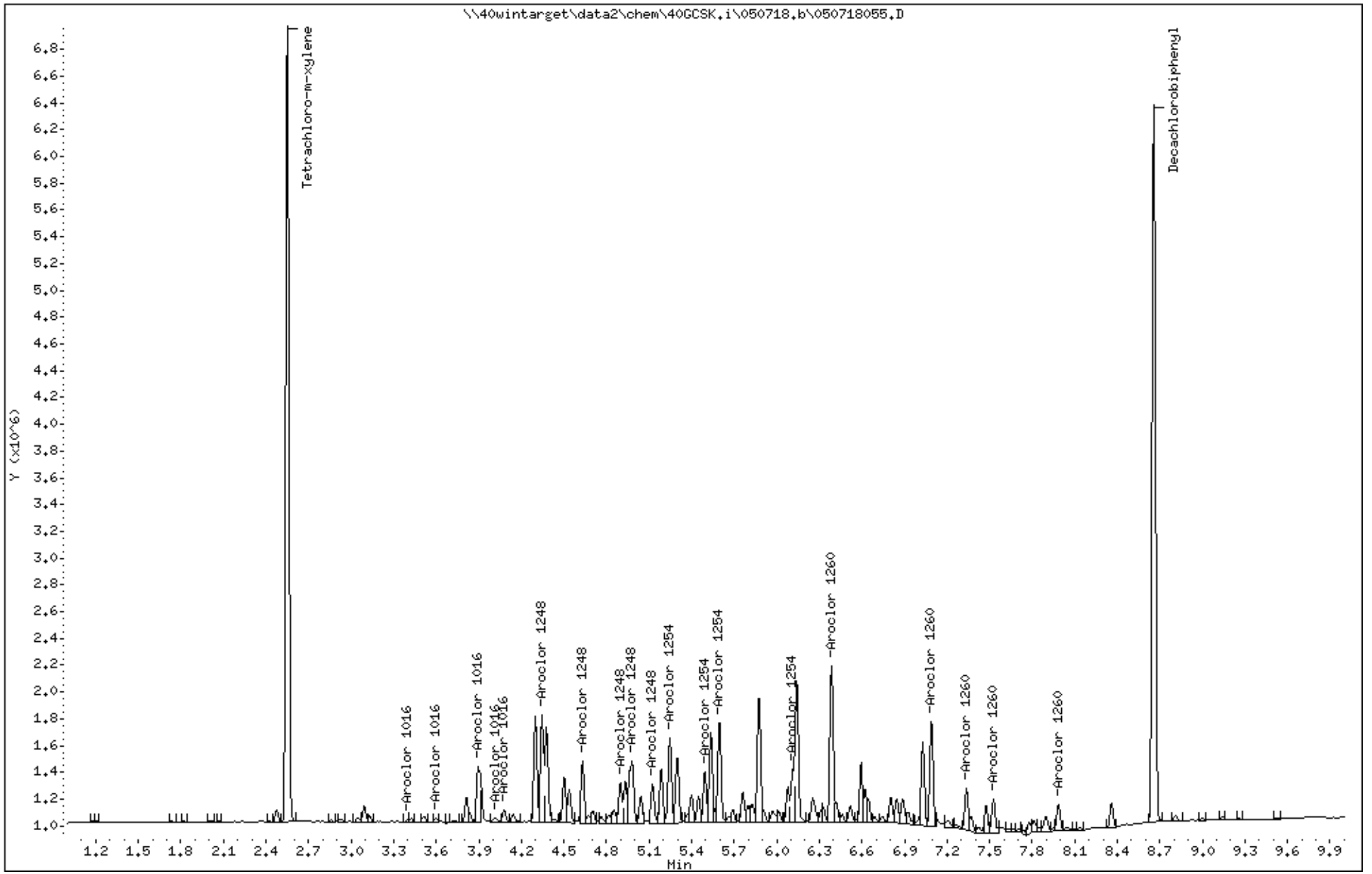
M - Compound response manually integrated.

Review Codes Legend

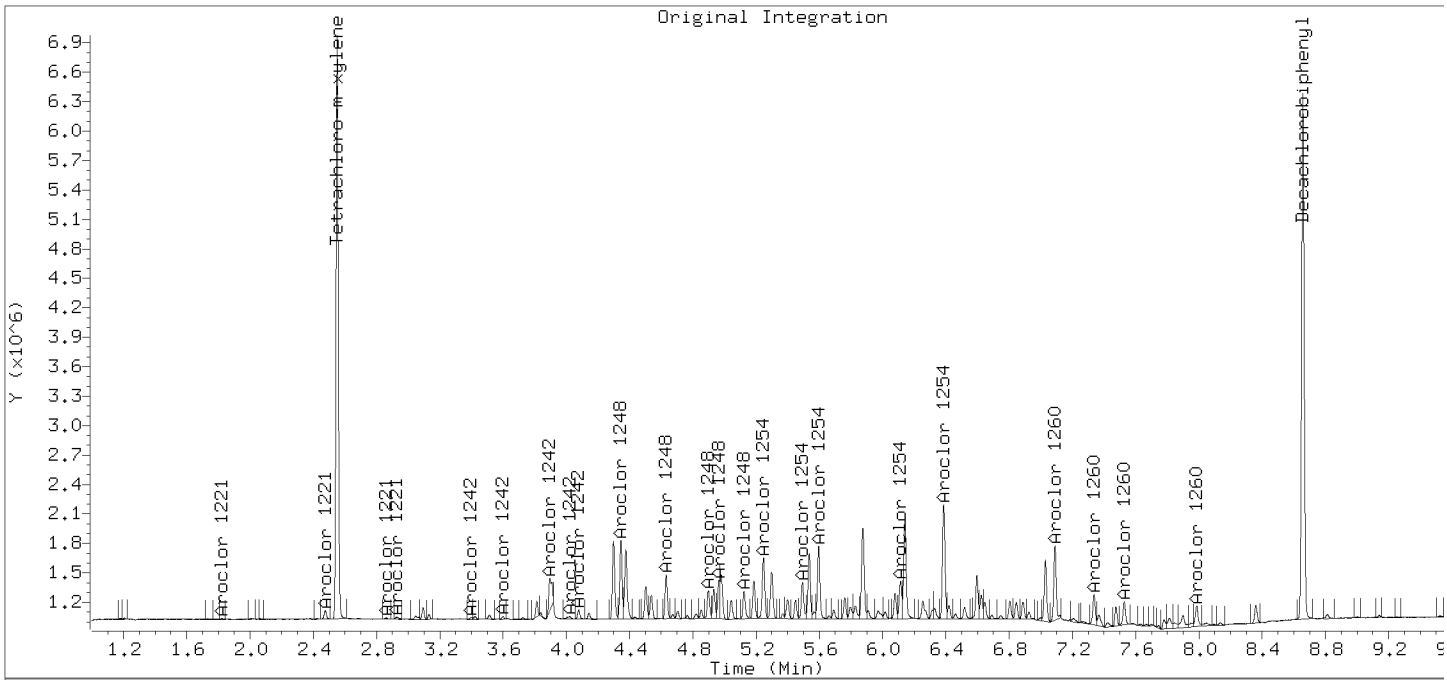
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

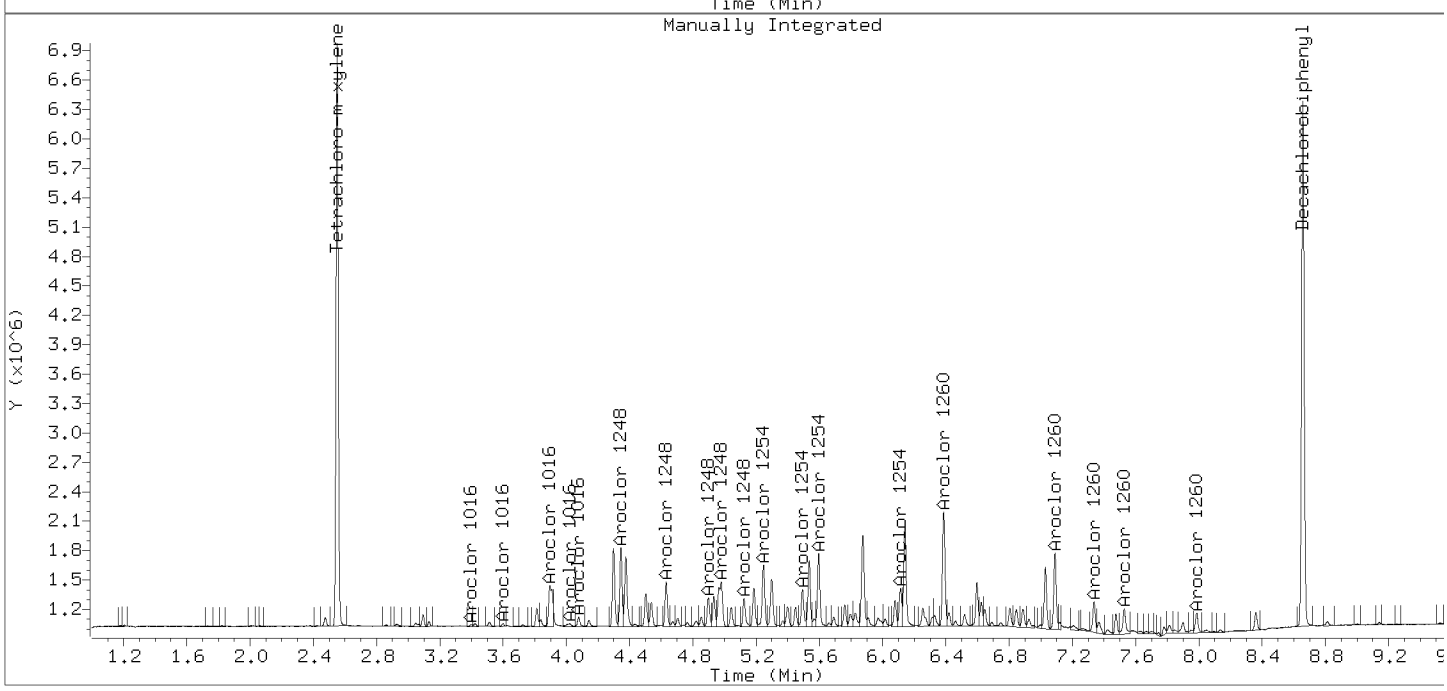
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718055.D
Date : 08-MAY-2018 03:34
Client ID: AT1-170830-01-SPSH-
Sample Info: 40158029005 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718055.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 03:34 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029005




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 0 | 0 | BA |
| Aroclor 1016 | 0 | 0 | BA |
| Aroclor 1016 | 0 | 0 | BA |
| Aroclor 1016 | 0 | 0 | BA |
| Aroclor 1016 | 0 | 0 | BA |
| Aroclor 1221 | 10127 | 0 | |
| Aroclor 1221 | 10127 | 0 | |
| Aroclor 1221 | 10127 | 0 | |
| Aroclor 1221 | 10127 | 0 | |
| Aroclor 1221 | 10127 | 0 | |
| Aroclor 1232 | 32706 | 0 | |
| Aroclor 1232 | 32706 | 0 | |
| Aroclor 1232 | 32706 | 0 | |
| Aroclor 1232 | 32706 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 32706 | 0 | |
| Aroclor 1242 | 20603 | 0 | |
| Aroclor 1242 | 20603 | 0 | |
| Aroclor 1242 | 20603 | 0 | |
| Aroclor 1242 | 20603 | 0 | |
| Aroclor 1242 | 20603 | 0 | |
| Aroclor 1248 | 812541 | 827954 | BA |
| Aroclor 1248 | 812541 | 827954 | BA |
| Aroclor 1248 | 812541 | 827954 | BA |
| Aroclor 1248 | 812541 | 827954 | BA |
| Aroclor 1248 | 812541 | 827954 | BA |
| Aroclor 1254 | 693732 | 750259 | BA |
| Aroclor 1254 | 693732 | 750259 | BA |
| Aroclor 1254 | 693732 | 750259 | BA |
| Aroclor 1254 | 693732 | 750259 | BA |
| Aroclor 1254 | 693732 | 750259 | BA |
| Aroclor 1260 | 1359428 | 1370996 | CO |
| Aroclor 1260 | 1359428 | 1370996 | CO |
| Aroclor 1260 | 1359428 | 1370996 | CO |
| Aroclor 1260 | 1359428 | 1370996 | CO |
| Aroclor 1260 | 1359428 | 1370996 | CO |
| Tetrachloro-m-xylene | 5838808 | 5838808 | |
| Decachlorobiphenyl | 6121594 | 6121594 | |

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SAMPLE NO.

AT1-170830-01-SFSH-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029006
Date Analyzed: 05/08/2018 07:32
Lab File ID: 050718.B\050718070.D
Initial wt/vol: 10.007 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <22.8 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 213 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 144 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 154 | |
| 1336-36-3 | PCB, Total | 511 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718070.D
Lab Smp Id: 40158029006 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 07:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029006 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 70
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.007 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.179 | 21633 | 21902 | 1.012 | 0.04 | | |
| 1.345 | 12410 | 12429 | 1.002 | 0.02 | | |
| 2.005 | 19720 | 16808 | 0.852 | 0.04 | | |
| 2.229 | 10829 | 13734 | 1.268 | 0.02 | | |
| 2.355 | 13768 | 14936 | 1.085 | 0.02 | | |
| 2.379 | 19631 | 19807 | 1.009 | 0.04 | | |
| 2.423 | 22109 | 21542 | 0.974 | 0.04 | | |
| 2.475 | 137136 | 130451 | 0.951 | 0.28 | | |
| 2.550 | 5447620 | 5613677 | 1.030 | 11.29 | $ 2 Tetrachloro-m-xylene | |
| 2.859 | 24262 | 18706 | 0.771 | 0.05 | | |
| 2.927 | 28401 | 21574 | 0.760 | 0.05 | | |
| 2.988 | 11054 | 10204 | 0.923 | 0.02 | | |
| 3.047 | 86255 | 50389 | 0.584 | 0.17 | | |
| 3.093 | 182041 | 194691 | 1.069 | 0.37 | | |
| 3.130 | 67928 | 68685 | 1.011 | 0.14 | | |
| 3.395 | 38807 | 35219 | 0.908 | 0.08 | | |
| 3.422 | 33067 | 29776 | 0.900 | 0.06 | | |
| 3.512 | 83025 | 70072 | 0.844 | 0.17 | | |
| 3.600 | 29534 | 28521 | 0.966 | 0.06 | | |
| 3.623 | 10585 | 10801 | 1.020 | 0.02 | | |
| 3.724 | 22536 | 19989 | 0.887 | 0.04 | | |
| 3.812 | 215167 | 207693 | 0.965 | 0.44 | | |
| 3.837 | 88184 | 78363 | 0.889 | 0.18 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.895 | 479188 | 501945 | 1.047 | 0.99 | |
| 3.907 | 448584 | 445407 | 0.993 | 0.93 | |
| 4.004 | 18893 | 24721 | 1.308 | 0.03 | |
| 4.021 | 57952 | 48058 | 0.829 | 0.12 | |
| 4.077 | 122439 | 107992 | 0.882 | 0.25 | |
| 4.142 | 83234 | 74746 | 0.898 | 0.17 | |
| 4.298 | 936558 | 885015 | 0.945 | 1.94 | |
| 4.344 | 979853 | 950983 | 0.971 | 2.03 | 6 Aroclor 1248 |
| 4.376 | 997943 | 865877 | 0.868 | 2.06 | |
| 4.434 | 35590 | 26302 | 0.739 | 0.07 | |
| 4.502 | 403163 | 380012 | 0.943 | 0.83 | |
| 4.537 | 337766 | 286609 | 0.849 | 0.70 | |
| 4.631 | 601440 | 575931 | 0.958 | 1.24 | 6 Aroclor 1248 |
| 4.671 | 71263 | 63185 | 0.887 | 0.14 | |
| 4.702 | 110623 | 97345 | 0.880 | 0.22 | |
| 4.764 | 47934 | 42494 | 0.887 | 0.09 | |
| 4.821 | 71113 | 53930 | 0.758 | 0.14 | |
| 4.853 | 137646 | 127990 | 0.930 | 0.28 | |
| 4.897 | 436480 | 415714 | 0.952 | 0.90 | 6 Aroclor 1248 |
| 4.932 | 430197 | 402632 | 0.936 | 0.89 | |
| 4.964 | 1046348 | 604692 | 0.578 | 2.16 | 6 Aroclor 1248 |
| 5.041 | 297976 | 241955 | 0.812 | 0.61 | |
| 5.102 | 31 | 1266 | 40.447 | 0.00 | |
| 5.122 | 411359 | 360855 | 0.877 | 0.85 | 6 Aroclor 1248 |
| 5.185 | 486613 | 448690 | 0.922 | 1.00 | |
| 5.246 | 1041244 | 913618 | 0.877 | 2.15 | 7 Aroclor 1254 |
| 5.298 | 840770 | 736331 | 0.876 | 1.74 | |
| 5.366 | 102360 | 92152 | 0.900 | 0.21 | |
| 5.400 | 360489 | 309377 | 0.858 | 0.74 | |
| 5.448 | 281321 | 260068 | 0.924 | 0.58 | |
| 5.493 | 575550 | 525517 | 0.913 | 1.19 | 7 Aroclor 1254 |
| 5.536 | 1989000 | 1893693 | 0.952 | 4.12 | |
| 5.568 | 72068 | 85960 | 1.193 | 0.14 | |
| 5.596 | 1251426 | 1097440 | 0.877 | 2.59 | 7 Aroclor 1254 |
| 5.662 | 54770 | 48275 | 0.881 | 0.11 | |
| 5.691 | 135700 | 118440 | 0.873 | 0.28 | |
| 5.760 | 248660 | 231508 | 0.931 | 0.51 | |
| 5.795 | 180939 | 140310 | 0.775 | 0.37 | |
| 5.827 | 283210 | 199460 | 0.704 | 0.58 | |
| 5.874 | 1761262 | 1452264 | 0.825 | 3.65 | |
| 5.908 | 126071 | 96240 | 0.763 | 0.26 | |
| 5.972 | 188176 | 103913 | 0.552 | 0.39 | |
| 6.016 | 138205 | 110903 | 0.802 | 0.28 | |
| 6.078 | 466557 | 432821 | 0.928 | 0.96 | |
| 6.112 | 644196 | 584284 | 0.907 | 1.33 | 7 Aroclor 1254 |
| 6.140 | 2297529 | 2008849 | 0.874 | 4.76 | |
| 6.253 | 379252 | 264970 | 0.699 | 0.78 | |
| 6.312 | 115588 | 134991 | 1.168 | 0.23 | |
| 6.328 | 211022 | 163238 | 0.774 | 0.43 | |
| 6.386 | 2269205 | 1914959 | 0.844 | 4.70 | 8 Aroclor 1260 |
| 6.419 | 241365 | 222009 | 0.920 | 0.50 | |
| 6.459 | 86329 | 69007 | 0.799 | 0.17 | |
| 6.517 | 246938 | 201559 | 0.816 | 0.51 | |
| 6.596 | 1020376 | 909515 | 0.891 | 2.11 | |
| 6.622 | 373143 | 355813 | 0.954 | 0.77 | |
| 6.646 | 369994 | 335014 | 0.905 | 0.76 | |
| 6.690 | 99062 | 85717 | 0.865 | 0.20 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.746 | 55744 | 50261 | 0.902 | 0.11 | |
| 6.804 | 307363 | 284575 | 0.926 | 0.63 | |
| 6.845 | 350954 | 304196 | 0.867 | 0.72 | |
| 6.887 | 359727 | 321207 | 0.893 | 0.74 | |
| 6.925 | 228007 | 168157 | 0.738 | 0.47 | |
| 6.999 | 69390 | 55710 | 0.803 | 0.14 | |
| 7.029 | 961878 | 894909 | 0.930 | 1.99 | |
| 7.089 | 1529780 | 1389785 | 0.908 | 3.17 | 8 Aroclor 1260 |
| 7.119 | 190624 | 134609 | 0.706 | 0.39 | |
| 7.158 | 46058 | 41392 | 0.899 | 0.09 | |
| 7.187 | 27043 | 31862 | 1.178 | 0.05 | |
| 7.209 | 95090 | 52261 | 0.550 | 0.19 | |
| 7.259 | 48318 | 22797 | 0.472 | 0.10 | |
| 7.336 | 610355 | 551946 | 0.904 | 1.26 | 8 Aroclor 1260 |
| 7.366 | 258208 | 189511 | 0.734 | 0.53 | |
| 7.422 | 89708 | 50926 | 0.568 | 0.18 | |
| 7.474 | 502111 | 478328 | 0.953 | 1.04 | |
| 7.527 | 611245 | 480894 | 0.787 | 1.26 | 8 Aroclor 1260 |
| 7.583 | 66035 | 34779 | 0.527 | 0.13 | |
| 7.634 | 59397 | 37128 | 0.625 | 0.12 | |
| 7.669 | 31180 | 23779 | 0.763 | 0.06 | |
| 7.696 | 18212 | 15612 | 0.857 | 0.03 | |
| 7.744 | 36098 | 40674 | 1.127 | 0.07 | |
| 7.779 | 127716 | 116734 | 0.914 | 0.26 | |
| 7.814 | 159308 | 123297 | 0.774 | 0.33 | |
| 7.847 | 46717 | 34556 | 0.740 | 0.09 | |
| 7.897 | 179663 | 132111 | 0.735 | 0.37 | |
| 7.947 | 14146 | 15299 | 1.082 | 0.02 | |
| 7.984 | 410099 | 365643 | 0.892 | 0.85 | 8 Aroclor 1260 |
| 8.048 | 47134 | 27992 | 0.594 | 0.09 | |
| 8.093 | 12439 | 11180 | 0.899 | 0.02 | |
| 8.134 | 28965 | 19611 | 0.677 | 0.06 | |
| 8.360 | 351257 | 322724 | 0.919 | 0.72 | |
| 8.440 | 17931 | 16043 | 0.895 | 0.03 | |
| 8.656 | 5840028 | 5143519 | 0.881 | 12.69 | $ 12 Decachlorobiphenyl |
| 8.787 | 11350 | 13104 | 1.155 | 0.02 | |
| 8.812 | 73992 | 60608 | 0.819 | 0.15 | |
| 9.001 | 76497 | 41829 | 0.547 | 0.15 | |
| 9.139 | 38950 | 34648 | 0.890 | 0.08 | |
| 9.253 | 37417 | 27287 | 0.729 | 0.07 | |
| 9.528 | 73708 | 44854 | 0.609 | 0.15 | |
| | 48227507 | 43048867 | | 100.000 | |

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718070.D
Lab Smp Id: 40158029006 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 07:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029006 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 70
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.007 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 5447619 | 0.04523 | 45 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 979853 | 0.41078 | 410 | 0.00- 20.00 | 100.00(M) | CO |
| 4.630 | 4.630 | 0.000 | 601440 | 0.14160 | 140 | 0.00- 20.00 | 61.38 | CO |
| 4.897 | 4.898 | -0.001 | 436480 | 0.21427 | 210 | 0.00- 20.00 | 44.55 | CO |
| 4.964 | 4.963 | 0.001 | 1046347 | 0.19103 | 190 | 0.00- 20.00 | 106.79 | CO |
| 5.122 | 5.123 | -0.001 | 411359 | 0.10873 | 110 | 0.00- 20.00 | 41.98 | CO |
| Average of Peak Concentrations = | | | | | 210 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1041243 | 0.18463 | 180 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 575550 | 0.12341 | 120 | 0.00- 20.00 | 55.28 | BA |
| 5.596 | 5.596 | 0.000 | 1251426 | 0.14616 | 150 | 0.00- 20.00 | 120.19 | BA |
| 6.111 | 6.113 | -0.002 | 644196 | 0.12125 | 120 | 0.00- 20.00 | 61.87 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 140 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 2269204 | 0.22669 | 230 | 0.00- 20.00 | 100.00(M) | BA |
| 7.088 | 7.090 | -0.002 | 1529780 | 0.12998 | 130 | 0.00- 20.00 | 67.41 | BA |
| 7.336 | 7.338 | -0.002 | 610355 | 0.10791 | 110 | 0.00- 20.00 | 26.90 | BA |
| 7.527 | 7.529 | -0.002 | 611245 | 0.17879 | 180 | 0.00- 20.00 | 26.94 | BA |
| 7.984 | 7.987 | -0.003 | 410099 | 0.12949 | 130 | 0.00- 20.00 | 18.07 | BA |
| Average of Peak Concentrations = | | | | | 150 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.655 | 8.657 | -0.002 | 5840028 | 0.04385 | 44 | | | |

QC Flag Legend

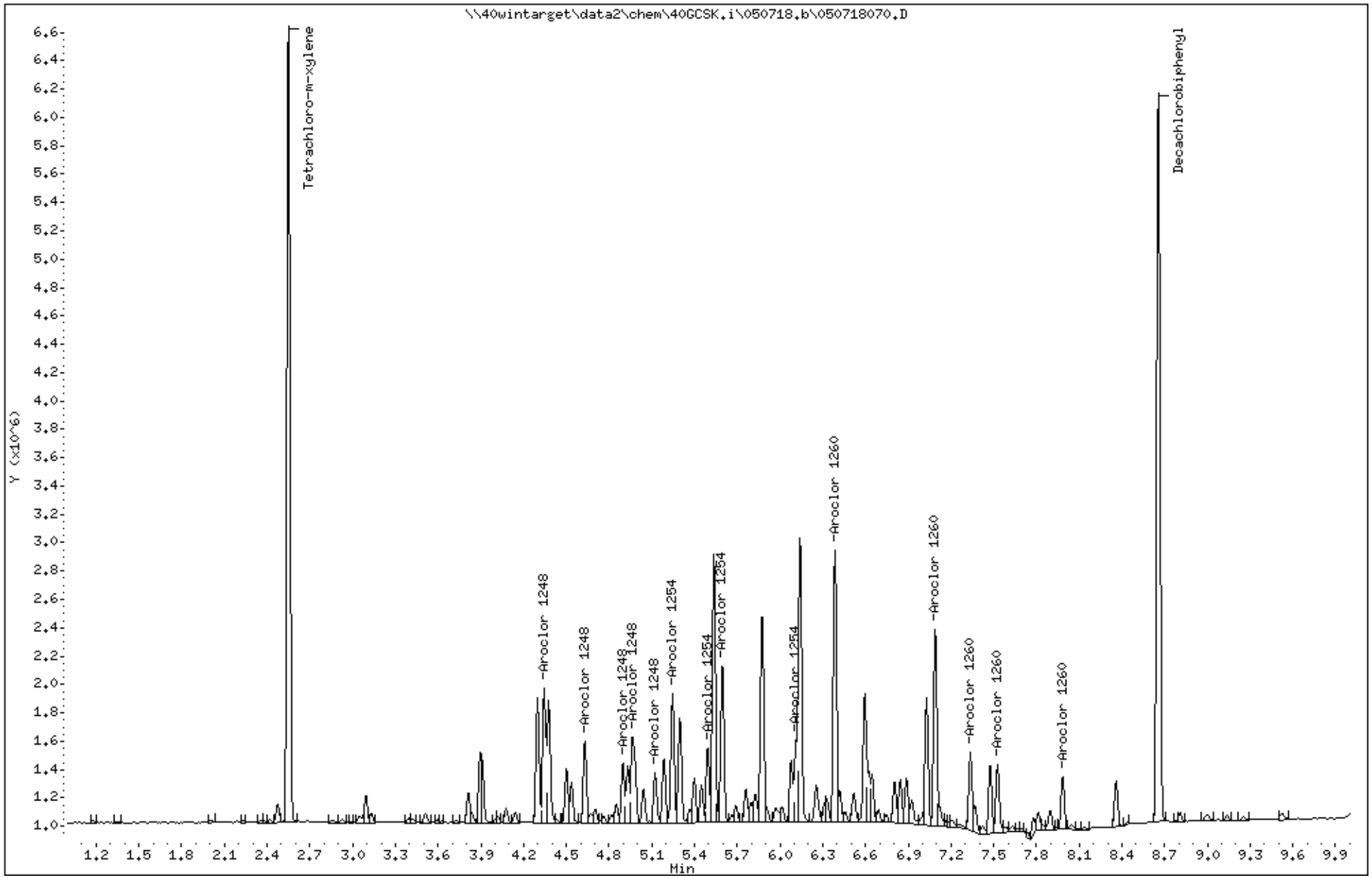
M - Compound response manually integrated.

Review Codes Legend

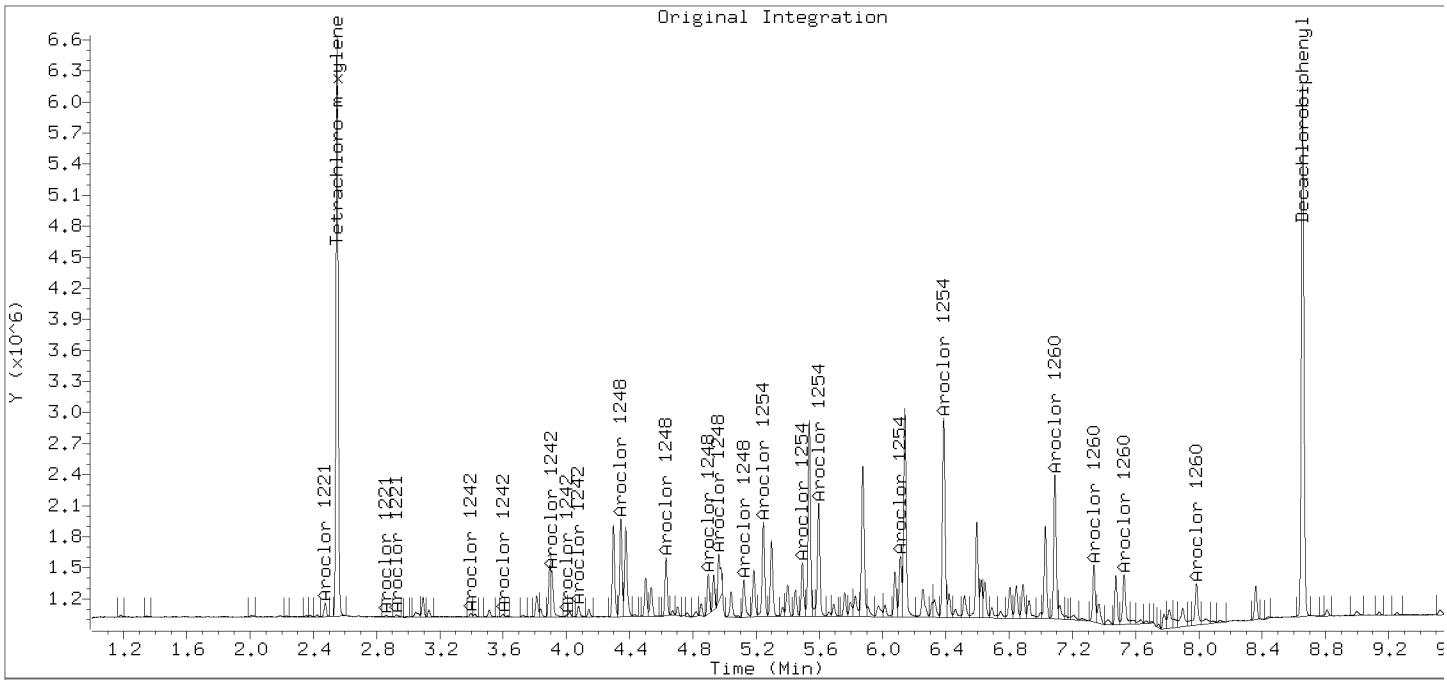
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

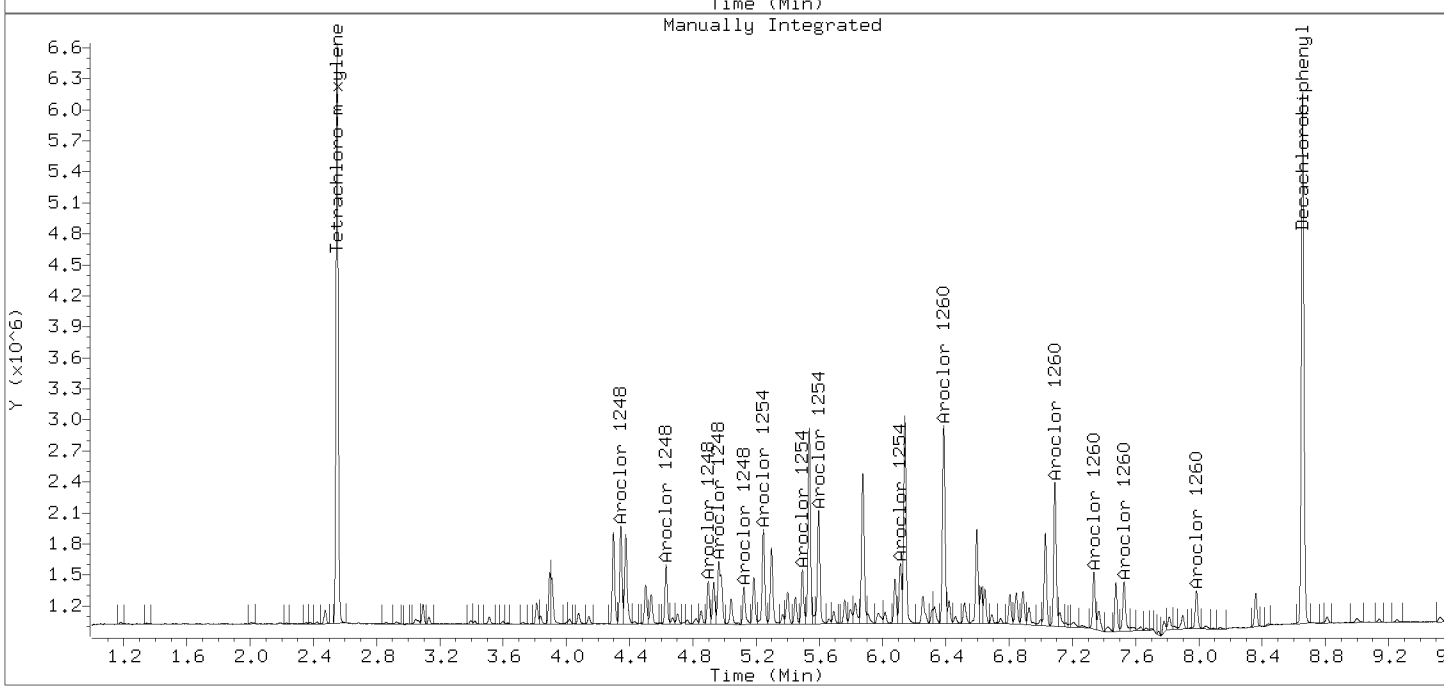
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718070.D
Date : 08-MAY-2018 07:32
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029006 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718070.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 07:32 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029006




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 38807 | 0 | |
| Aroclor 1016 | 38807 | 0 | |
| Aroclor 1016 | 38807 | 0 | |
| Aroclor 1016 | 38807 | 0 | |
| Aroclor 1016 | 38807 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 28400 | 0 | |
| Aroclor 1232 | 28400 | 0 | |
| Aroclor 1232 | 28400 | 0 | |
| Aroclor 1232 | 28400 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 28400 | 0 | |
| Aroclor 1242 | 38807 | 0 | |
| Aroclor 1242 | 38807 | 0 | |
| Aroclor 1242 | 38807 | 0 | |
| Aroclor 1242 | 38807 | 0 | |
| Aroclor 1242 | 38807 | 0 | |
| Aroclor 1248 | 970422 | 979853 | CO |
| Aroclor 1248 | 970422 | 979853 | CO |
| Aroclor 1248 | 970422 | 979853 | CO |
| Aroclor 1248 | 970422 | 979853 | CO |
| Aroclor 1248 | 970422 | 979853 | CO |
| Aroclor 1254 | 1035794 | 1041243 | BA |
| Aroclor 1254 | 1035794 | 1041243 | BA |
| Aroclor 1254 | 1035794 | 1041243 | BA |
| Aroclor 1254 | 1035794 | 1041243 | BA |
| Aroclor 1254 | 1035794 | 1041243 | BA |
| Aroclor 1260 | 2295048 | 2269204 | BA |
| Aroclor 1260 | 2295048 | 2269204 | BA |
| Aroclor 1260 | 2295048 | 2269204 | BA |
| Aroclor 1260 | 2295048 | 2269204 | BA |
| Aroclor 1260 | 2295048 | 2269204 | BA |
| Tetrachloro-m-xylene | 5447619 | 5447619 | |
| Decachlorobiphenyl | 5840028 | 5840028 | |

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SAMPLE NO.

AT1-170830-01-SFSH-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029007
Date Analyzed: 05/08/2018 07:48
Lab File ID: 050718.B\050718071.D
Initial wt/vol: 10.0174 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <22.8 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 264 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 152 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 148 | |
| 1336-36-3 | PCB, Total | 564 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718071.D
Lab Smp Id: 40158029007 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 07:48
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029007 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.017 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.182 | 34465 | 26339 | 0.764 | 0.06 | | |
| 1.347 | 15257 | 13121 | 0.860 | 0.02 | | |
| 1.680 | 9678 | 9645 | 0.997 | 0.01 | | |
| 2.006 | 36455 | 26627 | 0.730 | 0.07 | | |
| 2.118 | 15945 | 9889 | 0.620 | 0.03 | | |
| 2.183 | 16171 | 10273 | 0.635 | 0.03 | | |
| 2.230 | 10711 | 10140 | 0.947 | 0.02 | | |
| 2.356 | 10748 | 11608 | 1.080 | 0.02 | | |
| 2.380 | 14329 | 14070 | 0.982 | 0.02 | | |
| 2.421 | 24133 | 22423 | 0.929 | 0.04 | | |
| 2.475 | 194785 | 176367 | 0.905 | 0.37 | | |
| 2.550 | 6084512 | 6179917 | 1.016 | 11.71 | $ 2 Tetrachloro-m-xylene | |
| 2.686 | 11739 | 11882 | 1.012 | 0.02 | | |
| 2.862 | 28400 | 25079 | 0.883 | 0.05 | | |
| 2.924 | 48886 | 31029 | 0.635 | 0.09 | | |
| 2.989 | 10122 | 9303 | 0.919 | 0.01 | | |
| 3.048 | 122016 | 72901 | 0.597 | 0.23 | | |
| 3.094 | 250672 | 262504 | 1.047 | 0.48 | | |
| 3.131 | 96176 | 95926 | 0.997 | 0.18 | | |
| 3.396 | 48600 | 45774 | 0.942 | 0.09 | | |
| 3.425 | 44790 | 41100 | 0.918 | 0.08 | | |
| 3.513 | 107529 | 91627 | 0.852 | 0.20 | | |
| 3.600 | 39847 | 37269 | 0.935 | 0.07 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.628 | 13525 | 16243 | 1.201 | 0.02 | |
| 3.726 | 32440 | 26577 | 0.819 | 0.06 | |
| 3.813 | 321215 | 309406 | 0.963 | 0.61 | |
| 3.837 | 120670 | 114304 | 0.947 | 0.23 | |
| 3.896 | 714822 | 732247 | 1.024 | 1.37 | |
| 3.908 | 642891 | 673480 | 1.048 | 1.23 | |
| 4.021 | 98302 | 62620 | 0.637 | 0.18 | |
| 4.078 | 175877 | 163958 | 0.932 | 0.33 | |
| 4.143 | 119953 | 106821 | 0.891 | 0.23 | |
| 4.298 | 1297733 | 1210661 | 0.933 | 2.49 | |
| 4.345 | 1280854 | 1207051 | 0.942 | 2.46 | 6 Aroclor 1248 |
| 4.375 | 1216943 | 1057094 | 0.869 | 2.34 | |
| 4.435 | 50553 | 37755 | 0.747 | 0.09 | |
| 4.502 | 579399 | 545609 | 0.942 | 1.11 | |
| 4.537 | 445341 | 395805 | 0.889 | 0.85 | |
| 4.631 | 771812 | 735466 | 0.953 | 1.48 | 6 Aroclor 1248 |
| 4.673 | 76758 | 71029 | 0.925 | 0.14 | |
| 4.702 | 152583 | 136305 | 0.893 | 0.29 | |
| 4.742 | 16724 | 18688 | 1.117 | 0.03 | |
| 4.765 | 57858 | 49923 | 0.863 | 0.11 | |
| 4.823 | 91111 | 68219 | 0.749 | 0.17 | |
| 4.852 | 154190 | 146935 | 0.953 | 0.29 | |
| 4.898 | 500338 | 470879 | 0.941 | 0.96 | 6 Aroclor 1248 |
| 4.932 | 556001 | 538901 | 0.969 | 1.07 | |
| 4.979 | 1234543 | 625306 | 0.507 | 2.37 | 6 Aroclor 1248 |
| 5.043 | 317827 | 274384 | 0.863 | 0.61 | |
| 5.123 | 493810 | 452485 | 0.916 | 0.95 | 6 Aroclor 1248 |
| 5.185 | 604069 | 557627 | 0.923 | 1.16 | |
| 5.247 | 1088188 | 953295 | 0.876 | 2.09 | 7 Aroclor 1254 |
| 5.298 | 890162 | 746576 | 0.839 | 1.71 | |
| 5.367 | 107343 | 92378 | 0.861 | 0.20 | |
| 5.400 | 505410 | 450545 | 0.891 | 0.97 | |
| 5.449 | 299362 | 279573 | 0.934 | 0.57 | |
| 5.492 | 601985 | 553599 | 0.920 | 1.15 | 7 Aroclor 1254 |
| 5.536 | 1840921 | 1743561 | 0.947 | 3.54 | |
| 5.568 | 87938 | 100162 | 1.139 | 0.16 | |
| 5.595 | 1290317 | 1114336 | 0.864 | 2.48 | 7 Aroclor 1254 |
| 5.663 | 52307 | 45773 | 0.875 | 0.10 | |
| 5.691 | 150862 | 130282 | 0.864 | 0.29 | |
| 5.760 | 299772 | 279701 | 0.933 | 0.57 | |
| 5.795 | 210100 | 156617 | 0.745 | 0.40 | |
| 5.828 | 269788 | 192993 | 0.715 | 0.51 | |
| 5.875 | 1789733 | 1499270 | 0.838 | 3.44 | |
| 5.908 | 154563 | 120285 | 0.778 | 0.29 | |
| 5.972 | 229199 | 113614 | 0.496 | 0.44 | |
| 6.015 | 120588 | 104505 | 0.867 | 0.23 | |
| 6.057 | 21068 | 21125 | 1.003 | 0.04 | |
| 6.078 | 423493 | 391307 | 0.924 | 0.81 | |
| 6.112 | 717512 | 640161 | 0.892 | 1.38 | 7 Aroclor 1254 |
| 6.140 | 2070016 | 1799346 | 0.869 | 3.98 | |
| 6.253 | 416629 | 285379 | 0.685 | 0.80 | |
| 6.313 | 120491 | 131784 | 1.094 | 0.23 | |
| 6.327 | 193197 | 159318 | 0.825 | 0.37 | |
| 6.386 | 2141963 | 1785582 | 0.834 | 4.12 | 8 Aroclor 1260 |
| 6.419 | 243984 | 218981 | 0.898 | 0.46 | |
| 6.459 | 89389 | 72020 | 0.806 | 0.17 | |
| 6.518 | 223281 | 179466 | 0.804 | 0.42 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.595 | 849740 | 763436 | 0.898 | 1.63 | |
| 6.623 | 388004 | 368713 | 0.950 | 0.74 | |
| 6.646 | 323758 | 290796 | 0.898 | 0.62 | |
| 6.691 | 89982 | 77974 | 0.867 | 0.17 | |
| 6.746 | 60951 | 56220 | 0.922 | 0.11 | |
| 6.804 | 297989 | 266384 | 0.894 | 0.57 | |
| 6.845 | 291270 | 248235 | 0.852 | 0.56 | |
| 6.887 | 352444 | 310461 | 0.881 | 0.67 | |
| 6.926 | 221205 | 162258 | 0.734 | 0.42 | |
| 6.997 | 61462 | 46522 | 0.757 | 0.11 | |
| 7.029 | 879234 | 823018 | 0.936 | 1.69 | |
| 7.090 | 1468782 | 1335855 | 0.909 | 2.82 | 8 Aroclor 1260 |
| 7.119 | 146700 | 112761 | 0.769 | 0.28 | |
| 7.158 | 42036 | 40810 | 0.971 | 0.08 | |
| 7.208 | 96073 | 52442 | 0.546 | 0.18 | |
| 7.259 | 33462 | 23291 | 0.696 | 0.06 | |
| 7.337 | 581762 | 516546 | 0.888 | 1.12 | 8 Aroclor 1260 |
| 7.366 | 252772 | 187133 | 0.740 | 0.48 | |
| 7.424 | 98073 | 57999 | 0.591 | 0.18 | |
| 7.475 | 418694 | 387722 | 0.926 | 0.80 | |
| 7.527 | 570713 | 422612 | 0.740 | 1.09 | 8 Aroclor 1260 |
| 7.630 | 66416 | 42987 | 0.647 | 0.12 | |
| 7.663 | 58642 | 31391 | 0.535 | 0.11 | |
| 7.706 | 45427 | 32337 | 0.712 | 0.08 | |
| 7.746 | 35711 | 42454 | 1.189 | 0.06 | |
| 7.780 | 130412 | 112509 | 0.863 | 0.25 | |
| 7.812 | 184015 | 136840 | 0.744 | 0.35 | |
| 7.846 | 54654 | 41281 | 0.755 | 0.10 | |
| 7.897 | 206834 | 131603 | 0.636 | 0.39 | |
| 7.952 | 44017 | 29832 | 0.678 | 0.08 | |
| 7.984 | 426162 | 356651 | 0.837 | 0.82 | 8 Aroclor 1260 |
| 8.044 | 82195 | 38193 | 0.465 | 0.15 | |
| 8.091 | 21504 | 15065 | 0.701 | 0.04 | |
| 8.135 | 30192 | 18463 | 0.612 | 0.05 | |
| 8.191 | 9779 | 8926 | 0.913 | 0.01 | |
| 8.359 | 365010 | 329351 | 0.902 | 0.70 | |
| 8.656 | 6390136 | 5592559 | 0.875 | 12.89 | $ 12 Decachlorobiphenyl |
| 8.812 | 58068 | 51594 | 0.889 | 0.11 | |
| 8.999 | 27917 | 21903 | 0.785 | 0.05 | |
| 9.141 | 28998 | 21832 | 0.753 | 0.05 | |
| 9.250 | 27383 | 21508 | 0.785 | 0.05 | |
| 9.528 | 59253 | 36856 | 0.622 | 0.11 | |
| | 51941503 | 46067448 | | 100.000 | |

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718071.D
Lab Smp Id: 40158029007 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 07:48
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029007 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.017 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | |
| 2.550 | 2.549 | 0.001 | 6084512 | 0.05052 | 50 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1280854 | 0.53697 | 540 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 771811 | 0.18171 | 180 | 0.00- 20.00 | 60.26 | BA |
| 4.897 | 4.898 | -0.001 | 500337 | 0.24562 | 240 | 0.00- 20.00 | 39.06 | BA |
| 4.979 | 4.963 | 0.016 | 1234543 | 0.22539 | 220 | 0.00- 20.00 | 96.38 | BA |
| 5.122 | 5.123 | -0.001 | 493809 | 0.13052 | 130 | 0.00- 20.00 | 38.55 | BA |
| Average of Peak Concentrations = | | | | | 260 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1088187 | 0.19295 | 190 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 601985 | 0.12908 | 130 | 0.00- 20.00 | 55.32 | BA |
| 5.595 | 5.596 | -0.001 | 1290316 | 0.15070 | 150 | 0.00- 20.00 | 118.57 | BA |
| 6.112 | 6.113 | -0.001 | 717511 | 0.13505 | 130 | 0.00- 20.00 | 65.94 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 150 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 2141963 | 0.21398 | 210 | 0.00- 20.00 | 100.00(M) | BA |
| 7.089 | 7.090 | -0.001 | 1468782 | 0.12480 | 120 | 0.00- 20.00 | 68.57 | BA |
| 7.337 | 7.338 | -0.001 | 581762 | 0.10285 | 100 | 0.00- 20.00 | 27.16 | BA |
| 7.527 | 7.529 | -0.002 | 570712 | 0.16693 | 170 | 0.00- 20.00 | 26.64 | BA |
| 7.984 | 7.987 | -0.003 | 426162 | 0.13456 | 130 | 0.00- 20.00 | 19.90 | BA |
| Average of Peak Concentrations = | | | | | 150 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.655 | 8.657 | -0.002 | 6390135 | 0.04798 | 48 | | | |

QC Flag Legend

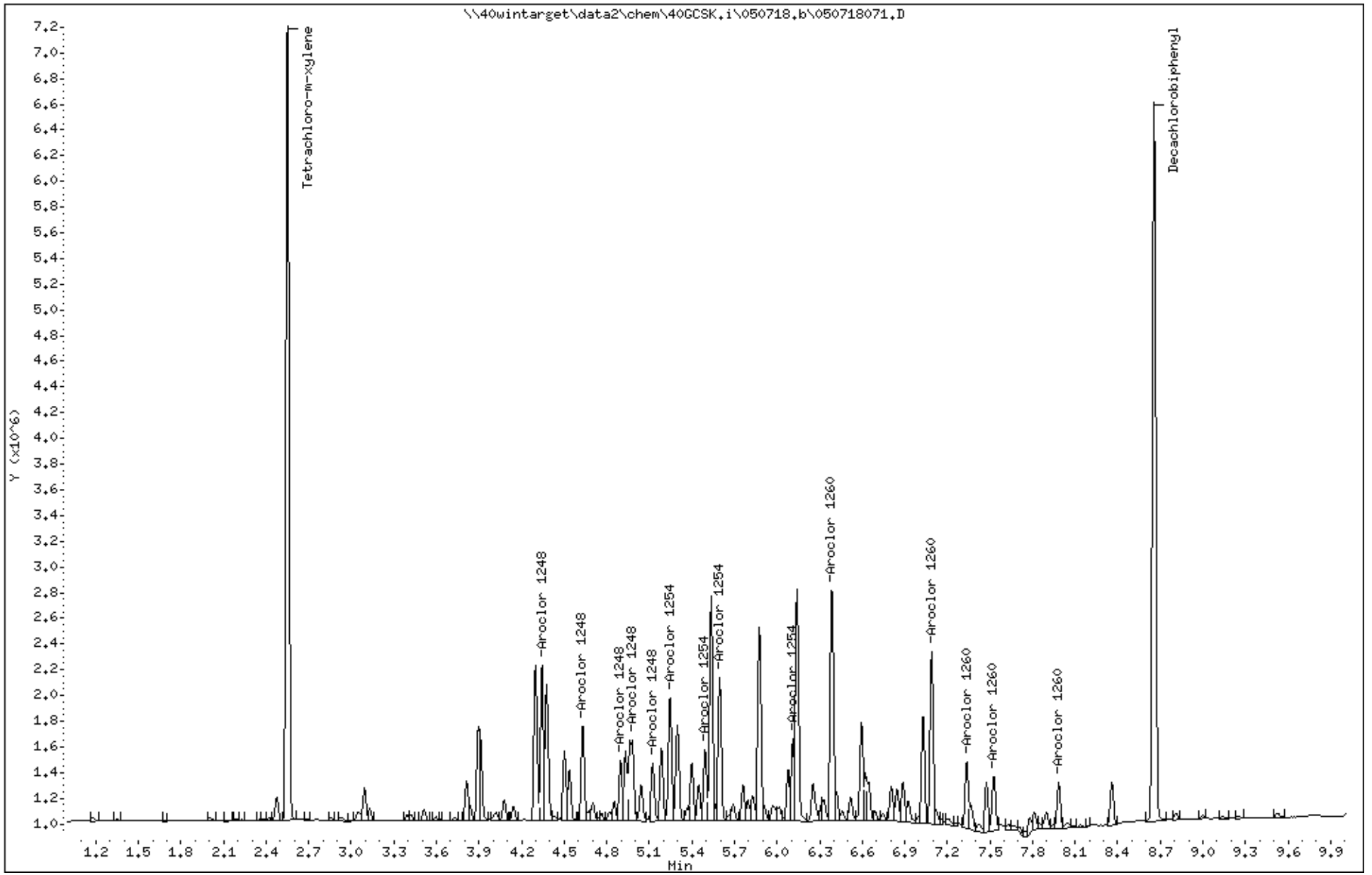
M - Compound response manually integrated.

Review Codes Legend

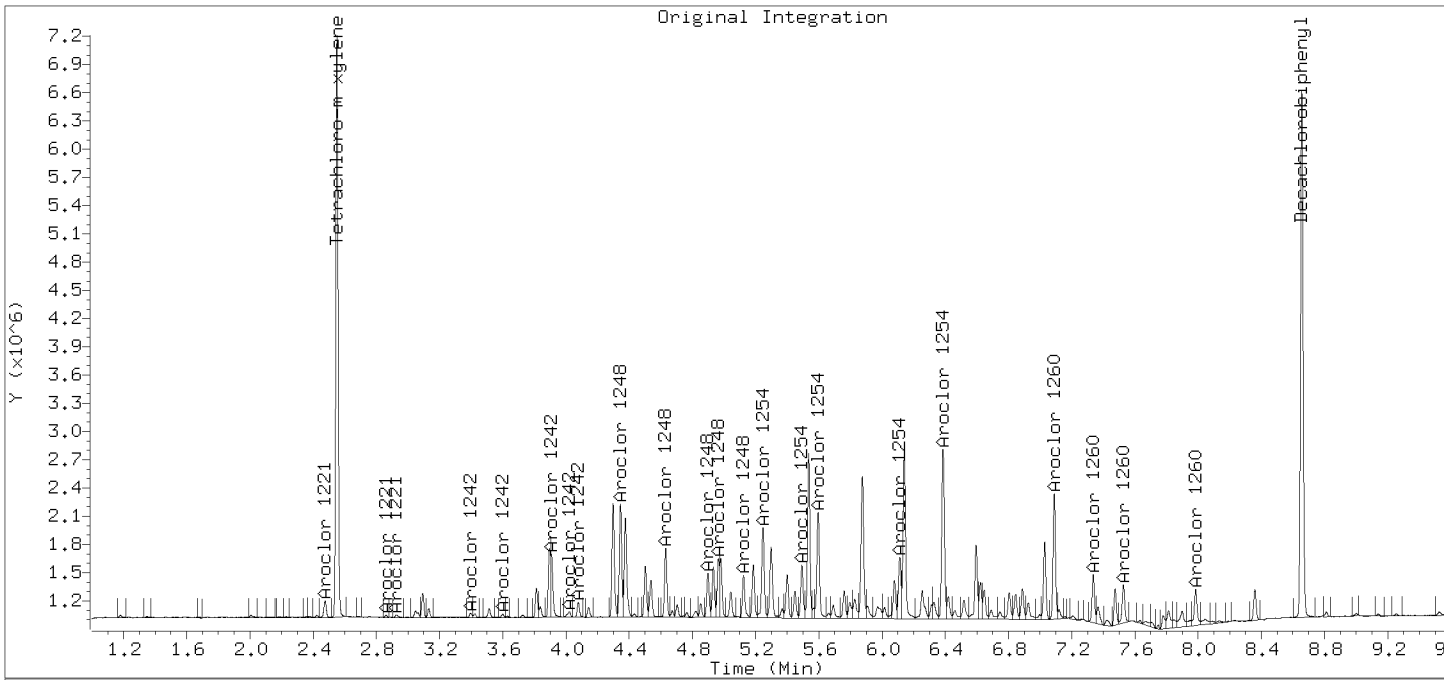
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

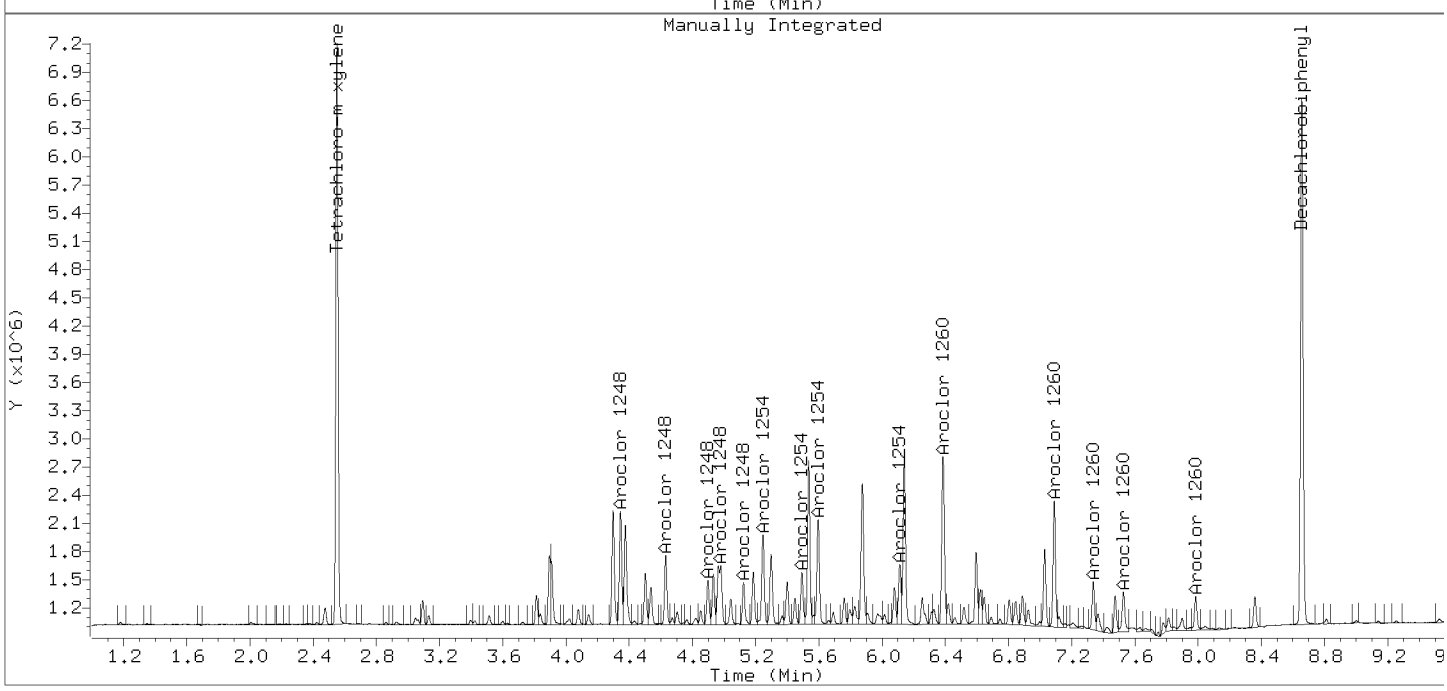
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718071.D
Date : 08-MAY-2018 07:48
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029007 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718071.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 07:48 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029007




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 48599 | 0 | |
| Aroclor 1016 | 48599 | 0 | |
| Aroclor 1016 | 48599 | 0 | |
| Aroclor 1016 | 48599 | 0 | |
| Aroclor 1016 | 48599 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 48885 | 0 | |
| Aroclor 1232 | 48885 | 0 | |
| Aroclor 1232 | 48885 | 0 | |
| Aroclor 1232 | 48885 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 48885 | 0 | |
| Aroclor 1242 | 48599 | 0 | |
| Aroclor 1242 | 48599 | 0 | |
| Aroclor 1242 | 48599 | 0 | |
| Aroclor 1242 | 48599 | 0 | |
| Aroclor 1242 | 48599 | 0 | |
| Aroclor 1248 | 1274665 | 1280854 | BA |
| Aroclor 1248 | 1274665 | 1280854 | BA |
| Aroclor 1248 | 1274665 | 1280854 | BA |
| Aroclor 1248 | 1274665 | 1280854 | BA |
| Aroclor 1248 | 1274665 | 1280854 | BA |
| Aroclor 1254 | 1107630 | 1088187 | BA |
| Aroclor 1254 | 1107630 | 1088187 | BA |
| Aroclor 1254 | 1107630 | 1088187 | BA |
| Aroclor 1254 | 1107630 | 1088187 | BA |
| Aroclor 1254 | 1107630 | 1088187 | BA |
| Aroclor 1260 | 2194165 | 2141963 | BA |
| Aroclor 1260 | 2194165 | 2141963 | BA |
| Aroclor 1260 | 2194165 | 2141963 | BA |
| Aroclor 1260 | 2194165 | 2141963 | BA |
| Aroclor 1260 | 2194165 | 2141963 | BA |
| Tetrachloro-m-xylene | 6084512 | 6084512 | |
| Decachlorobiphenyl | 6390135 | 6390135 | |

==========

SAMPLE NO.

AT1-170830-01-SFSH-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029008
Date Analyzed: 05/08/2018 12:42
Lab File ID: 050718.B\050718072.D
Initial wt/vol: 9.9635 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <34.3 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 140 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <34.3 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <34.3 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 356 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 191 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 192 | |
| 1336-36-3 | PCB, Total | 879 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718072.D
Lab Smp Id: 40158029008 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 12:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029008 x3,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 72
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 3.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.963 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 1.178 | 18266 | 22456 | 1.229 | 0.04 | | | |
| 1.204 | 40100 | 31584 | 0.788 | 0.09 | | | |
| 1.344 | 13564 | 13144 | 0.969 | 0.03 | | | |
| 1.813 | 9770 | 6293 | 0.644 | 0.02 | | | |
| 2.001 | 32620 | 22909 | 0.702 | 0.07 | | | |
| 2.058 | 26362 | 20071 | 0.761 | 0.05 | | | |
| 2.420 | 20092 | 20167 | 1.004 | 0.04 | | | |
| 2.470 | 171082 | 157898 | 0.923 | 0.38 | | 1 Aroclor 1221 | BA |
| 2.546 | 3928430 | 3968256 | 1.010 | 8.93 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.751 | 16536 | 11776 | 0.712 | 0.03 | | 1 Aroclor 1221 | BA |
| 2.856 | 27917 | 21953 | 0.786 | 0.06 | | 1 Aroclor 1221 | BA |
| 2.920 | 37386 | 27381 | 0.732 | 0.08 | | 1 Aroclor 1221 | BA |
| 3.044 | 123596 | 74219 | 0.600 | 0.28 | | | |
| 3.090 | 234111 | 236441 | 1.010 | 0.53 | | | |
| 3.127 | 89602 | 86884 | 0.970 | 0.20 | | | |
| 3.393 | 47578 | 43288 | 0.910 | 0.10 | | | |
| 3.418 | 43461 | 38053 | 0.876 | 0.09 | | | |
| 3.508 | 98939 | 84824 | 0.857 | 0.22 | | | |
| 3.595 | 41512 | 35228 | 0.849 | 0.09 | | | |
| 3.621 | 12012 | 14014 | 1.167 | 0.02 | | | |
| 3.722 | 30772 | 28538 | 0.927 | 0.06 | | | |
| 3.809 | 282269 | 282676 | 1.001 | 0.64 | | | |
| 3.834 | 115441 | 113141 | 0.980 | 0.26 | | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.892 | 1221993 | 739992 | 0.606 | 2.77 | |
| 4.017 | 91060 | 60479 | 0.664 | 0.20 | |
| 4.075 | 164658 | 145506 | 0.884 | 0.37 | |
| 4.139 | 105584 | 93286 | 0.884 | 0.24 | |
| 4.296 | 1172657 | 1104969 | 0.942 | 2.66 | |
| 4.342 | 1245858 | 1199413 | 0.963 | 2.83 | 6 Aroclor 1248 |
| 4.373 | 2013116 | 1737374 | 0.863 | 4.57 | |
| 4.431 | 51039 | 34754 | 0.681 | 0.11 | |
| 4.499 | 503476 | 468793 | 0.931 | 1.14 | |
| 4.535 | 378813 | 335919 | 0.887 | 0.86 | |
| 4.628 | 655362 | 636296 | 0.971 | 1.49 | 6 Aroclor 1248 |
| 4.670 | 101500 | 97222 | 0.958 | 0.23 | |
| 4.702 | 132170 | 121711 | 0.921 | 0.30 | |
| 4.738 | 13586 | 16258 | 1.197 | 0.03 | |
| 4.762 | 66651 | 59012 | 0.885 | 0.15 | |
| 4.819 | 118742 | 97835 | 0.824 | 0.27 | |
| 4.851 | 146390 | 139469 | 0.953 | 0.33 | |
| 4.896 | 401364 | 393504 | 0.980 | 0.91 | 6 Aroclor 1248 |
| 4.930 | 486535 | 471069 | 0.968 | 1.10 | |
| 4.962 | 1079793 | 555040 | 0.514 | 2.45 | 6 Aroclor 1248 |
| 5.041 | 266108 | 231628 | 0.870 | 0.60 | |
| 5.087 | 13690 | 13598 | 0.993 | 0.03 | |
| 5.122 | 419067 | 382747 | 0.913 | 0.95 | 6 Aroclor 1248 |
| 5.184 | 552571 | 519724 | 0.941 | 1.25 | |
| 5.246 | 975910 | 815486 | 0.836 | 2.21 | 7 Aroclor 1254 |
| 5.297 | 712233 | 602776 | 0.846 | 1.61 | |
| 5.366 | 115946 | 103854 | 0.896 | 0.26 | |
| 5.400 | 422469 | 386190 | 0.914 | 0.96 | |
| 5.449 | 244835 | 229872 | 0.939 | 0.55 | |
| 5.492 | 504361 | 472746 | 0.937 | 1.14 | 7 Aroclor 1254 |
| 5.536 | 1808645 | 1703744 | 0.942 | 4.11 | |
| 5.568 | 85448 | 88452 | 1.035 | 0.19 | |
| 5.594 | 1053289 | 942624 | 0.895 | 2.39 | 7 Aroclor 1254 |
| 5.661 | 43836 | 39328 | 0.897 | 0.09 | |
| 5.692 | 122715 | 103592 | 0.844 | 0.27 | |
| 5.761 | 282584 | 261311 | 0.925 | 0.64 | |
| 5.796 | 177248 | 137078 | 0.773 | 0.40 | |
| 5.827 | 238345 | 175008 | 0.734 | 0.54 | |
| 5.875 | 1415036 | 1183622 | 0.836 | 3.21 | |
| 5.907 | 144767 | 116875 | 0.807 | 0.32 | |
| 5.972 | 193809 | 98482 | 0.508 | 0.44 | |
| 6.017 | 101016 | 90756 | 0.898 | 0.22 | |
| 6.054 | 16822 | 19126 | 1.137 | 0.03 | |
| 6.079 | 345689 | 323061 | 0.935 | 0.78 | |
| 6.113 | 542520 | 483539 | 0.891 | 1.23 | 7 Aroclor 1254 |
| 6.141 | 1745820 | 1537288 | 0.881 | 3.97 | |
| 6.255 | 362677 | 242634 | 0.669 | 0.82 | |
| 6.315 | 97567 | 104587 | 1.072 | 0.22 | |
| 6.330 | 150225 | 120592 | 0.803 | 0.34 | |
| 6.388 | 1730935 | 1451793 | 0.839 | 3.93 | 8 Aroclor 1260 |
| 6.421 | 187758 | 176530 | 0.940 | 0.42 | |
| 6.460 | 65794 | 55419 | 0.842 | 0.14 | |
| 6.518 | 197146 | 157466 | 0.799 | 0.44 | |
| 6.572 | 22352 | 25482 | 1.140 | 0.05 | |
| 6.597 | 736653 | 692107 | 0.940 | 1.67 | |
| 6.623 | 285669 | 277094 | 0.970 | 0.64 | |
| 6.648 | 283387 | 259238 | 0.915 | 0.64 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.692 | 60071 | 59935 | 0.998 | 0.13 | |
| 6.748 | 54104 | 50565 | 0.935 | 0.12 | |
| 6.806 | 264777 | 242990 | 0.918 | 0.60 | |
| 6.847 | 248817 | 211758 | 0.851 | 0.56 | |
| 6.889 | 276882 | 245224 | 0.886 | 0.62 | |
| 6.927 | 178773 | 123613 | 0.691 | 0.40 | |
| 7.001 | 49124 | 42498 | 0.865 | 0.11 | |
| 7.031 | 848032 | 794598 | 0.937 | 1.92 | |
| 7.091 | 1299039 | 1172036 | 0.902 | 2.95 | 8 Aroclor 1260 |
| 7.121 | 125694 | 95420 | 0.759 | 0.28 | |
| 7.159 | 39747 | 37975 | 0.955 | 0.09 | |
| 7.185 | 23637 | 29819 | 1.262 | 0.05 | |
| 7.189 | 15053 | 34421 | 2.287 | 0.03 | |
| 7.208 | 103249 | 52440 | 0.508 | 0.23 | |
| 7.267 | 48919 | 25597 | 0.523 | 0.11 | |
| 7.339 | 500092 | 452895 | 0.906 | 1.13 | 8 Aroclor 1260 |
| 7.369 | 233663 | 169550 | 0.726 | 0.53 | |
| 7.425 | 111192 | 61426 | 0.552 | 0.25 | |
| 7.478 | 357890 | 327087 | 0.914 | 0.81 | |
| 7.530 | 527849 | 386069 | 0.731 | 1.20 | 8 Aroclor 1260 |
| 7.585 | 99836 | 44785 | 0.449 | 0.22 | |
| 7.623 | 25944 | 35473 | 1.367 | 0.05 | |
| 7.635 | 52575 | 45272 | 0.861 | 0.11 | |
| 7.669 | 70534 | 36464 | 0.517 | 0.16 | |
| 7.709 | 53593 | 37303 | 0.696 | 0.12 | |
| 7.750 | 37978 | 45368 | 1.195 | 0.08 | |
| 7.785 | 124298 | 105131 | 0.846 | 0.28 | |
| 7.816 | 175601 | 110490 | 0.629 | 0.39 | |
| 7.902 | 185773 | 120787 | 0.650 | 0.42 | |
| 7.951 | 41268 | 27084 | 0.656 | 0.09 | |
| 7.989 | 356672 | 292859 | 0.821 | 0.81 | 8 Aroclor 1260 |
| 8.050 | 74710 | 33593 | 0.450 | 0.16 | |
| 8.091 | 21988 | 15190 | 0.691 | 0.05 | |
| 8.137 | 25601 | 18304 | 0.715 | 0.05 | |
| 8.364 | 288211 | 247884 | 0.860 | 0.65 | |
| 8.435 | 14643 | 13173 | 0.900 | 0.03 | |
| 8.660 | 4392728 | 3906863 | 0.889 | 10.56 | $ 12 Decachlorobiphenyl |
| 8.815 | 69024 | 49386 | 0.715 | 0.15 | |
| 8.998 | 57823 | 33427 | 0.578 | 0.13 | |
| 9.147 | 29103 | 23223 | 0.798 | 0.06 | |
| 9.259 | 21300 | 16975 | 0.797 | 0.04 | |
| 9.525 | 111078 | 64866 | 0.584 | 0.25 | |
| | 43973596 | 38434360 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718072.D
Lab Smp Id: 40158029008 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 12:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029008 x3,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 72
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 3.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.963 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 2.470 | 2.471 | -0.001 | 171081 | 0.32452 | 490 | 0.00- 20.00 | 0.00 | BA |
| 2.750 | 2.758 | -0.008 | 16536 | 0.01192 | 18 | 0.00- 20.00 | 0.00 | BA |
| 2.855 | 2.860 | -0.005 | 27916 | 0.02530 | 38 | 0.00- 20.00 | 0.00 | BA |
| 2.920 | 2.923 | -0.003 | 37386 | 0.01118 | 17 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 140 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.545 | 2.549 | -0.004 | 3928429 | 0.03262 | 49 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.342 | 4.343 | -0.001 | 1245858 | 0.52230 | 790 | 0.00- 20.00 | 100.00(M) | BA |
| 4.628 | 4.630 | -0.002 | 655361 | 0.15430 | 230 | 0.00- 20.00 | 52.60 | BA |
| 4.896 | 4.898 | -0.002 | 401363 | 0.19703 | 300 | 0.00- 20.00 | 32.22 | BA |
| 4.962 | 4.963 | -0.001 | 1079793 | 0.19714 | 300 | 0.00- 20.00 | 86.67 | BA |
| 5.121 | 5.123 | -0.002 | 419067 | 0.11077 | 170 | 0.00- 20.00 | 33.64 | BA |
| | | Average of Peak Concentrations = | | | 360 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.245 | 5.248 | -0.003 | 975910 | 0.17305 | 260 | 0.00- 20.00 | 100.00(M) | BA |
| 5.491 | 5.492 | -0.001 | 504360 | 0.10814 | 160 | 0.00- 20.00 | 51.68 | BA |
| 5.594 | 5.596 | -0.002 | 1053288 | 0.12302 | 180 | 0.00- 20.00 | 107.93 | BA |
| 6.112 | 6.113 | -0.001 | 542519 | 0.10211 | 150 | 0.00- 20.00 | 55.59 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| | | Average of Peak Concentrations = | | | 190 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 1730935 | 0.17292 | 260 | 0.00- 20.00 | 100.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 1299039 | 0.11038 | 170 | 0.00- 20.00 | 75.05 | BA |
| 7.338 | 7.338 | 0.000 | 500092 | 0.08841 | 130 | 0.00- 20.00 | 28.89 | BA |
| 7.530 | 7.529 | 0.001 | 527848 | 0.15439 | 230 | 0.00- 20.00 | 30.49 | BA |
| 7.988 | 7.987 | 0.001 | 356671 | 0.11262 | 170 | 0.00- 20.00 | 20.61 | BA |
| | | Average of Peak Concentrations = | | | 190 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.660 | 8.657 | 0.003 | 4392727 | 0.03298 | 50 | | | |

QC Flag Legend

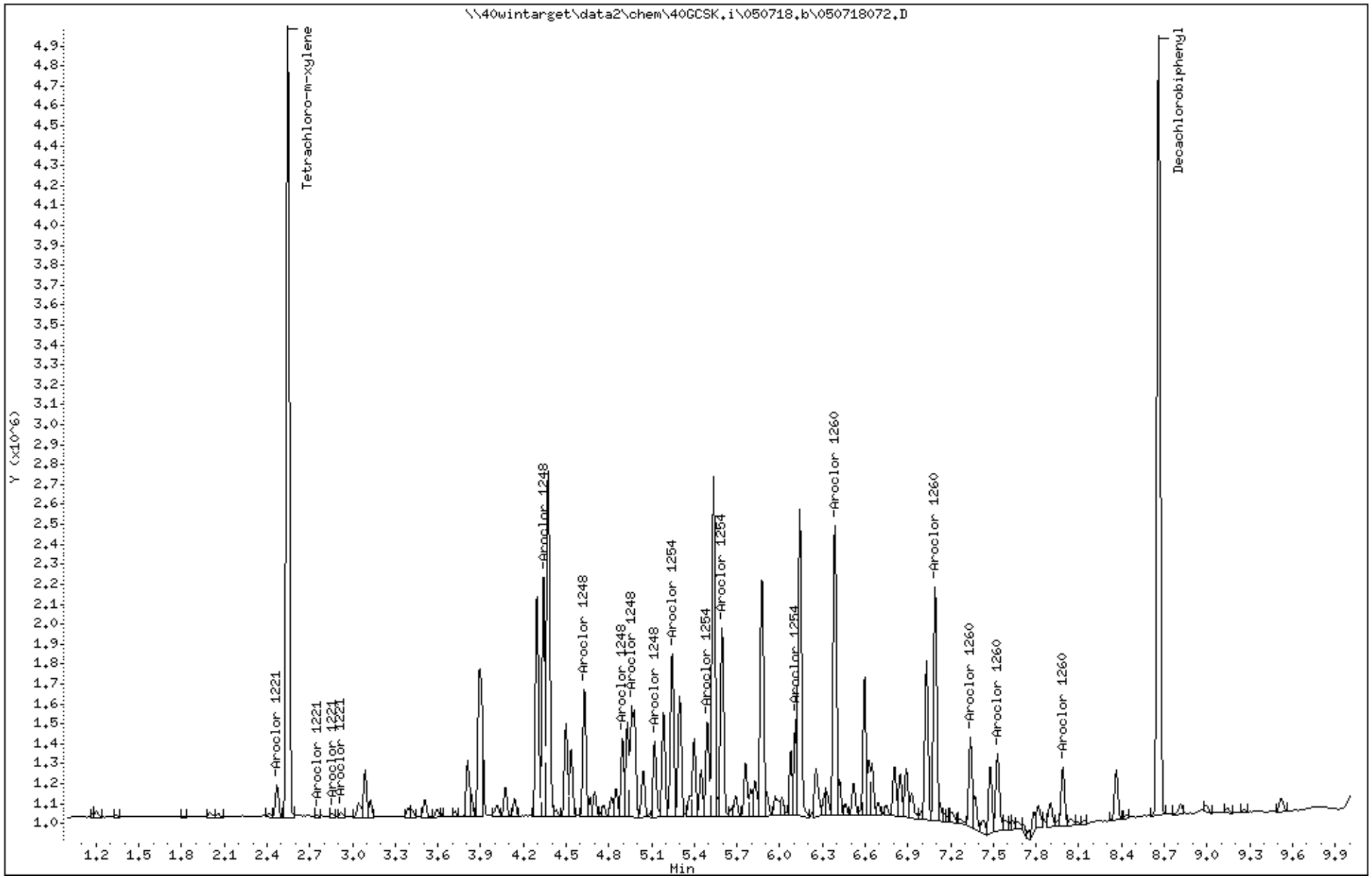
M - Compound response manually integrated.

Review Codes Legend

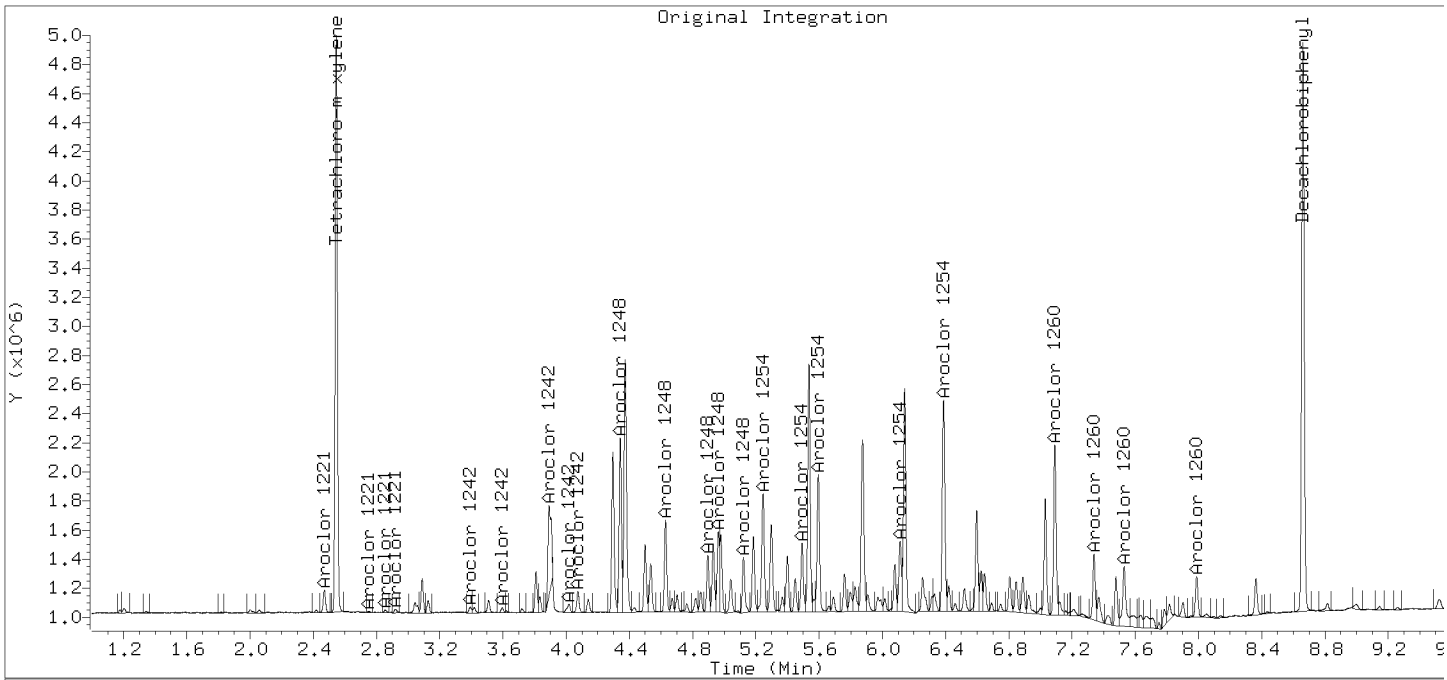
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

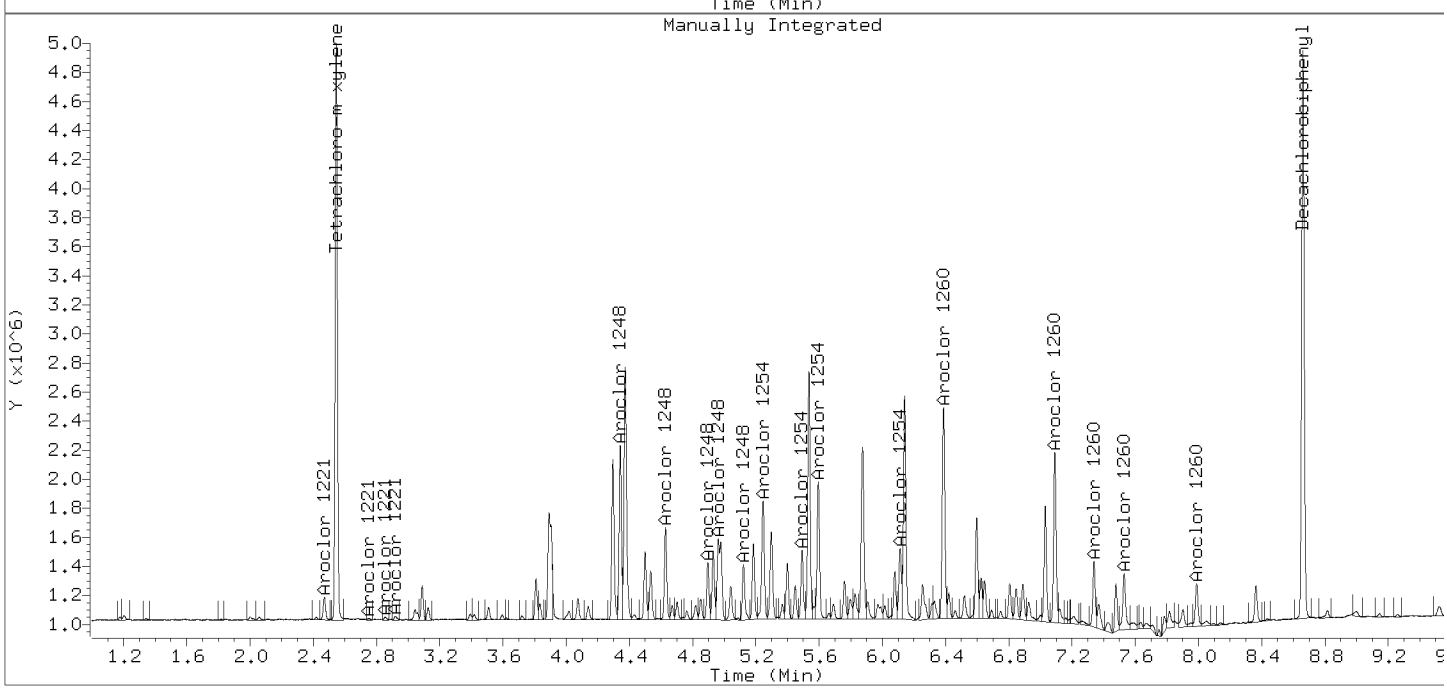
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718072.D
Date : 08-MAY-2018 12:42
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029008 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718072.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 12:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029008




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 47217 | 0 | |
| Aroclor 1016 | 47217 | 0 | |
| Aroclor 1016 | 47217 | 0 | |
| Aroclor 1016 | 47217 | 0 | |
| Aroclor 1016 | 47217 | 0 | |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1232 | 26501 | 0 | |
| Aroclor 1232 | 26501 | 0 | |
| Aroclor 1232 | 26501 | 0 | |
| Aroclor 1232 | 26501 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 26501 | 0 | |
| Aroclor 1242 | 47217 | 0 | |
| Aroclor 1242 | 47217 | 0 | |
| Aroclor 1242 | 47217 | 0 | |
| Aroclor 1242 | 47217 | 0 | |
| Aroclor 1242 | 47217 | 0 | |
| Aroclor 1248 | 1240049 | 1245858 | BA |
| Aroclor 1248 | 1240049 | 1245858 | BA |
| Aroclor 1248 | 1240049 | 1245858 | BA |
| Aroclor 1248 | 1240049 | 1245858 | BA |
| Aroclor 1248 | 1240049 | 1245858 | BA |
| Aroclor 1254 | 965436 | 975910 | BA |
| Aroclor 1254 | 965436 | 975910 | BA |
| Aroclor 1254 | 965436 | 975910 | BA |
| Aroclor 1254 | 965436 | 975910 | BA |
| Aroclor 1254 | 965436 | 975910 | BA |
| Aroclor 1260 | 1722782 | 1730935 | BA |
| Aroclor 1260 | 1722782 | 1730935 | BA |
| Aroclor 1260 | 1722782 | 1730935 | BA |
| Aroclor 1260 | 1722782 | 1730935 | BA |
| Aroclor 1260 | 1722782 | 1730935 | BA |
| Tetrachloro-m-xylene | 3902042 | 3928429 | BA |
| Decachlorobiphenyl | 4392727 | 4392727 | |

==========

SAMPLE NO.

AT1-170830-01-SFSH-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029009
Date Analyzed: 05/08/2018 13:16
Lab File ID: 050718.B\050718073.D
Initial wt/vol: 10.005 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <34.2 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 135 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <34.2 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <34.2 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 478 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 516 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 192 | |
| 1336-36-3 | PCB, Total | 1320 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718073.D
Lab Smp Id: 40158029009 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029009 x3,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 3.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.005 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.180 | 19224 | 21294 | 1.108 | 0.03 | | |
| 1.204 | 14534 | 16612 | 1.143 | 0.02 | | |
| 1.341 | 13016 | 11661 | 0.896 | 0.02 | | |
| 2.019 | 55508 | 39973 | 0.720 | 0.09 | | |
| 2.058 | 13413 | 10600 | 0.790 | 0.02 | | |
| 2.421 | 24555 | 20435 | 0.832 | 0.04 | | |
| 2.473 | 161068 | 145745 | 0.905 | 0.27 | 1 Aroclor 1221 | BA |
| 2.548 | 3709738 | 3782198 | 1.020 | 6.27 | $ 2 Tetrachloro-m-xylene | BA |
| 2.752 | 19794 | 13157 | 0.665 | 0.03 | 1 Aroclor 1221 | BA |
| 2.859 | 30964 | 22834 | 0.737 | 0.05 | 1 Aroclor 1221 | BA |
| 2.921 | 38875 | 25881 | 0.666 | 0.06 | 1 Aroclor 1221 | BA |
| 2.984 | 12668 | 10616 | 0.838 | 0.02 | | |
| 3.046 | 103950 | 58833 | 0.566 | 0.17 | | |
| 3.092 | 195467 | 200059 | 1.023 | 0.33 | | |
| 3.130 | 90900 | 83434 | 0.918 | 0.15 | | |
| 3.395 | 45052 | 41865 | 0.929 | 0.07 | | |
| 3.421 | 38936 | 35706 | 0.917 | 0.06 | | |
| 3.512 | 87018 | 79545 | 0.914 | 0.14 | | |
| 3.599 | 30045 | 28730 | 0.956 | 0.05 | | |
| 3.724 | 20572 | 19918 | 0.968 | 0.03 | | |
| 3.811 | 240775 | 234769 | 0.975 | 0.40 | | |
| 3.835 | 92319 | 85750 | 0.929 | 0.15 | | |
| 3.894 | 492987 | 553255 | 1.122 | 0.83 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.907 | 568138 | 539014 | 0.949 | 0.96 | |
| 4.006 | 21607 | 30162 | 1.396 | 0.03 | |
| 4.019 | 65460 | 55476 | 0.847 | 0.11 | |
| 4.077 | 144668 | 126756 | 0.876 | 0.24 | |
| 4.141 | 94578 | 85927 | 0.909 | 0.16 | |
| 4.297 | 1616873 | 1522920 | 0.942 | 2.73 | |
| 4.344 | 1323111 | 1265845 | 0.957 | 2.23 | 6 Aroclor 1248 |
| 4.375 | 1201105 | 1038312 | 0.864 | 2.03 | |
| 4.434 | 37515 | 28667 | 0.764 | 0.06 | |
| 4.501 | 741253 | 709779 | 0.958 | 1.25 | |
| 4.537 | 400716 | 351642 | 0.878 | 0.67 | |
| 4.631 | 801820 | 781109 | 0.974 | 1.35 | 6 Aroclor 1248 |
| 4.672 | 74500 | 66640 | 0.894 | 0.12 | |
| 4.703 | 132242 | 123267 | 0.932 | 0.22 | |
| 4.764 | 59046 | 52045 | 0.881 | 0.09 | |
| 4.821 | 84899 | 66433 | 0.782 | 0.14 | |
| 4.852 | 157756 | 152086 | 0.964 | 0.26 | |
| 4.897 | 657463 | 639653 | 0.973 | 1.11 | 6 Aroclor 1248 |
| 4.932 | 809557 | 778065 | 0.961 | 1.37 | |
| 4.980 | 2110315 | 1303131 | 0.618 | 3.57 | 6 Aroclor 1248 |
| 5.042 | 474050 | 432642 | 0.913 | 0.80 | |
| 5.089 | 13715 | 15055 | 1.098 | 0.02 | |
| 5.123 | 542594 | 501212 | 0.924 | 0.91 | 6 Aroclor 1248 |
| 5.185 | 1072588 | 993826 | 0.927 | 1.81 | |
| 5.246 | 2651257 | 2347596 | 0.885 | 4.48 | 7 Aroclor 1254 |
| 5.297 | 1617136 | 1419567 | 0.878 | 2.73 | |
| 5.368 | 141795 | 126306 | 0.891 | 0.23 | |
| 5.400 | 525428 | 457235 | 0.870 | 0.88 | |
| 5.449 | 762028 | 743994 | 0.976 | 1.28 | |
| 5.493 | 1512978 | 1333134 | 0.881 | 2.56 | 7 Aroclor 1254 |
| 5.536 | 2108654 | 1987909 | 0.943 | 3.56 | |
| 5.566 | 142135 | 148282 | 1.043 | 0.24 | |
| 5.595 | 2489723 | 2232787 | 0.897 | 4.21 | 7 Aroclor 1254 |
| 5.661 | 73737 | 65713 | 0.891 | 0.12 | |
| 5.691 | 305145 | 268935 | 0.881 | 0.51 | |
| 5.761 | 400380 | 378365 | 0.945 | 0.67 | |
| 5.797 | 368302 | 271716 | 0.738 | 0.62 | |
| 5.828 | 400935 | 283064 | 0.706 | 0.67 | |
| 5.876 | 3112068 | 2585283 | 0.831 | 5.26 | |
| 5.908 | 173842 | 139410 | 0.802 | 0.29 | |
| 5.973 | 303152 | 185330 | 0.611 | 0.51 | |
| 6.016 | 175557 | 147946 | 0.843 | 0.29 | |
| 6.051 | 10028 | 15572 | 1.553 | 0.01 | |
| 6.079 | 574790 | 550703 | 0.958 | 0.97 | |
| 6.113 | 1244016 | 1104156 | 0.888 | 2.10 | 7 Aroclor 1254 |
| 6.142 | 2638476 | 2281633 | 0.865 | 4.46 | |
| 6.256 | 586114 | 444184 | 0.758 | 0.99 | |
| 6.314 | 201558 | 206799 | 1.026 | 0.34 | |
| 6.329 | 253103 | 222218 | 0.878 | 0.42 | |
| 6.386 | 2941473 | 2506460 | 0.852 | 4.97 | 7 Aroclor 1254 |
| 6.420 | 369433 | 345578 | 0.935 | 0.62 | |
| 6.461 | 143630 | 122437 | 0.852 | 0.24 | |
| 6.520 | 237016 | 184821 | 0.780 | 0.40 | |
| 6.573 | 25525 | 32306 | 1.266 | 0.04 | |
| 6.597 | 840437 | 798487 | 0.950 | 1.42 | |
| 6.625 | 569659 | 526259 | 0.924 | 0.96 | |
| 6.647 | 346640 | 322523 | 0.930 | 0.58 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.691 | 112936 | 102000 | 0.903 | 0.19 | |
| 6.748 | 59917 | 55187 | 0.921 | 0.10 | |
| 6.805 | 317053 | 281476 | 0.888 | 0.53 | |
| 6.846 | 282166 | 249207 | 0.883 | 0.47 | |
| 6.889 | 434464 | 385466 | 0.887 | 0.73 | |
| 6.927 | 210398 | 155894 | 0.741 | 0.35 | |
| 7.000 | 55598 | 45126 | 0.812 | 0.09 | |
| 7.030 | 805003 | 750475 | 0.932 | 1.36 | |
| 7.091 | 1417893 | 1281577 | 0.904 | 2.39 | 8 Aroclor 1260 |
| 7.124 | 139090 | 104806 | 0.754 | 0.23 | |
| 7.162 | 42728 | 39213 | 0.918 | 0.07 | |
| 7.189 | 27821 | 28450 | 1.023 | 0.04 | |
| 7.209 | 77184 | 43361 | 0.562 | 0.13 | |
| 7.338 | 588289 | 536671 | 0.912 | 0.99 | 8 Aroclor 1260 |
| 7.369 | 243554 | 183217 | 0.752 | 0.41 | |
| 7.424 | 104381 | 59463 | 0.570 | 0.17 | |
| 7.478 | 400007 | 359965 | 0.900 | 0.67 | |
| 7.530 | 551903 | 396321 | 0.718 | 0.93 | 8 Aroclor 1260 |
| 7.580 | 83002 | 41965 | 0.506 | 0.14 | |
| 7.635 | 88047 | 45176 | 0.513 | 0.14 | |
| 7.665 | 60939 | 32442 | 0.532 | 0.10 | |
| 7.709 | 59915 | 40868 | 0.682 | 0.10 | |
| 7.750 | 35616 | 44198 | 1.241 | 0.06 | |
| 7.781 | 114370 | 112004 | 0.979 | 0.19 | |
| 7.814 | 173734 | 122899 | 0.707 | 0.29 | |
| 7.850 | 59973 | 40188 | 0.670 | 0.10 | |
| 7.901 | 217264 | 134597 | 0.620 | 0.36 | |
| 7.948 | 35751 | 26619 | 0.745 | 0.06 | |
| 7.987 | 403700 | 317511 | 0.787 | 0.68 | 8 Aroclor 1260 |
| 8.047 | 76677 | 33675 | 0.439 | 0.12 | |
| 8.136 | 24530 | 18320 | 0.747 | 0.04 | |
| 8.363 | 345642 | 293635 | 0.850 | 0.58 | |
| 8.436 | 13661 | 13922 | 1.019 | 0.02 | |
| 8.659 | 4256049 | 3726369 | 0.876 | 7.75 | $ 12 Decachlorobiphenyl |
| 8.813 | 62763 | 52107 | 0.830 | 0.10 | |
| 9.002 | 29669 | 16473 | 0.555 | 0.05 | |
| 9.144 | 25062 | 20904 | 0.834 | 0.04 | |
| 9.258 | 28026 | 26364 | 0.941 | 0.04 | |
| 9.525 | 15513 | 12858 | 0.829 | 0.02 | |
| | 59083387 | 52220211 | | 100.000 | |

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718073.D
Lab Smp Id: 40158029009 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029009 x3,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 3.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.005 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 2.472 | 2.471 | 0.001 | 161067 | 0.30552 | 460 | 0.00- 20.00 | 0.00 | BA |
| 2.752 | 2.758 | -0.006 | 19793 | 0.01427 | 21 | 0.00- 20.00 | 0.00 | BA |
| 2.859 | 2.860 | -0.001 | 30964 | 0.02806 | 42 | 0.00- 20.00 | 0.00 | BA |
| 2.920 | 2.923 | -0.003 | 38874 | 0.01163 | 17 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 130 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.548 | 2.549 | -0.001 | 3709738 | 0.03080 | 46 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1323111 | 0.55468 | 830 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 801820 | 0.18878 | 280 | 0.00- 20.00 | 60.60 | BA |
| 4.897 | 4.898 | -0.001 | 657462 | 0.32275 | 480 | 0.00- 20.00 | 49.69 | BA |
| 4.979 | 4.963 | 0.016 | 2110315 | 0.38528 | 580 | 0.00- 20.00 | 159.50 | BA |
| 5.123 | 5.123 | 0.000 | 542593 | 0.14342 | 220 | 0.00- 20.00 | 41.01 | BA |
| Average of Peak Concentrations = | | | | | 480 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 2651256 | 0.47011 | 700 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 1512977 | 0.32441 | 490 | 0.00- 20.00 | 57.07 | BA |
| 5.595 | 5.596 | -0.001 | 2489723 | 0.29079 | 440 | 0.00- 20.00 | 93.91 | BA |
| 6.112 | 6.113 | -0.001 | 1244016 | 0.23415 | 350 | 0.00- 20.00 | 46.92 | BA |
| 6.386 | 6.387 | -0.001 | 2941472 | 0.40178 | 600 | 0.00- 20.00 | 110.95 | BA |
| Average of Peak Concentrations = | | | | | 520 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 7.091 | 7.090 | 0.001 | 1417893 | 0.12047 | 180 | 0.00- 20.00 | 48.20 | BA |
| 7.338 | 7.338 | 0.000 | 588288 | 0.10401 | 160 | 0.00- 20.00 | 20.00 | BA |
| 7.530 | 7.529 | 0.001 | 551903 | 0.16143 | 240 | 0.00- 20.00 | 18.76 | BA |
| 7.986 | 7.987 | -0.001 | 403699 | 0.12747 | 190 | 0.00- 20.00 | 13.72 | BA |
| Average of Peak Concentrations = | | | | | 190 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.658 | 8.657 | 0.001 | 4256049 | 0.03195 | 48 | | | |

QC Flag Legend

M - Compound response manually integrated.

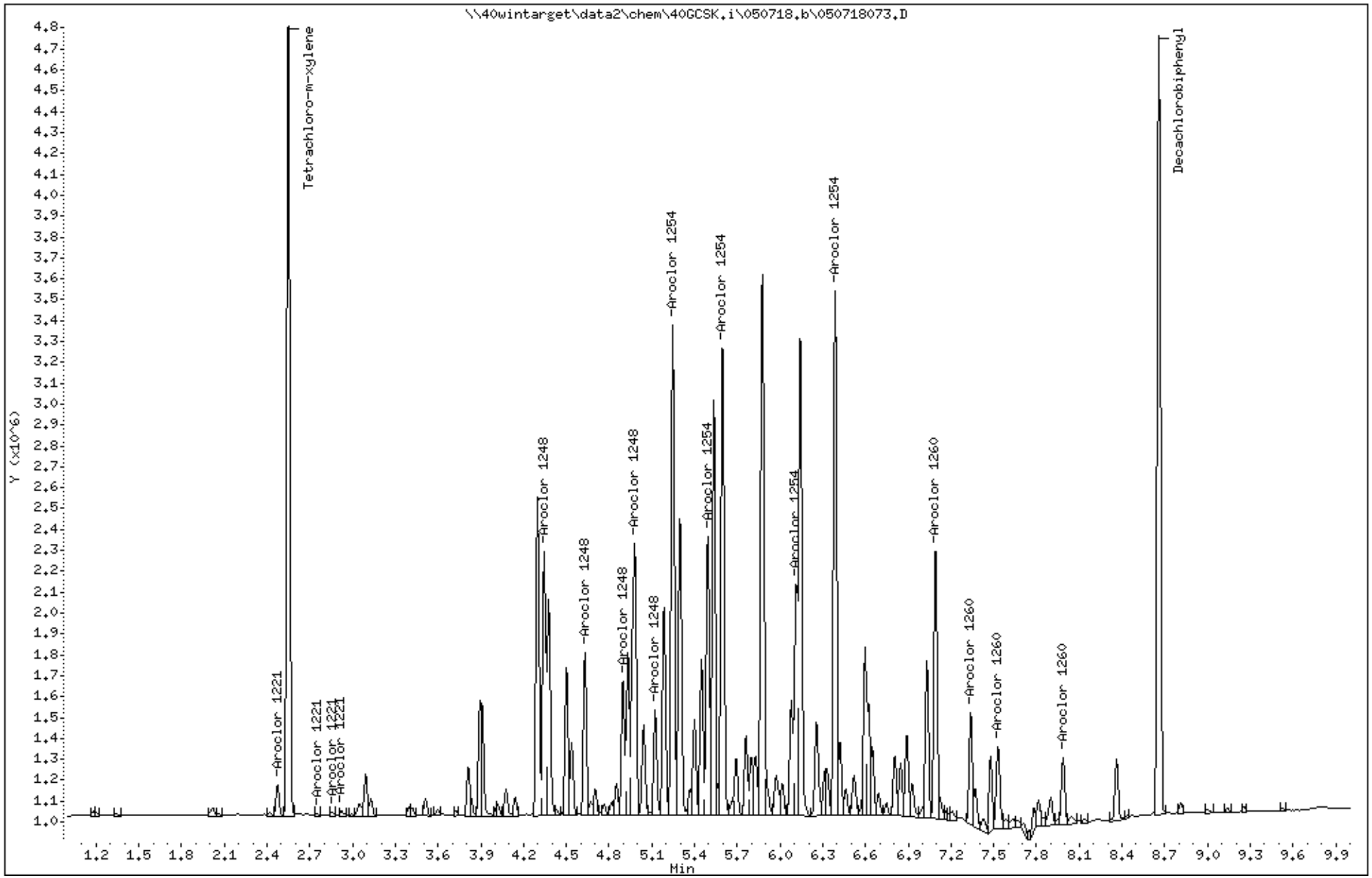
Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

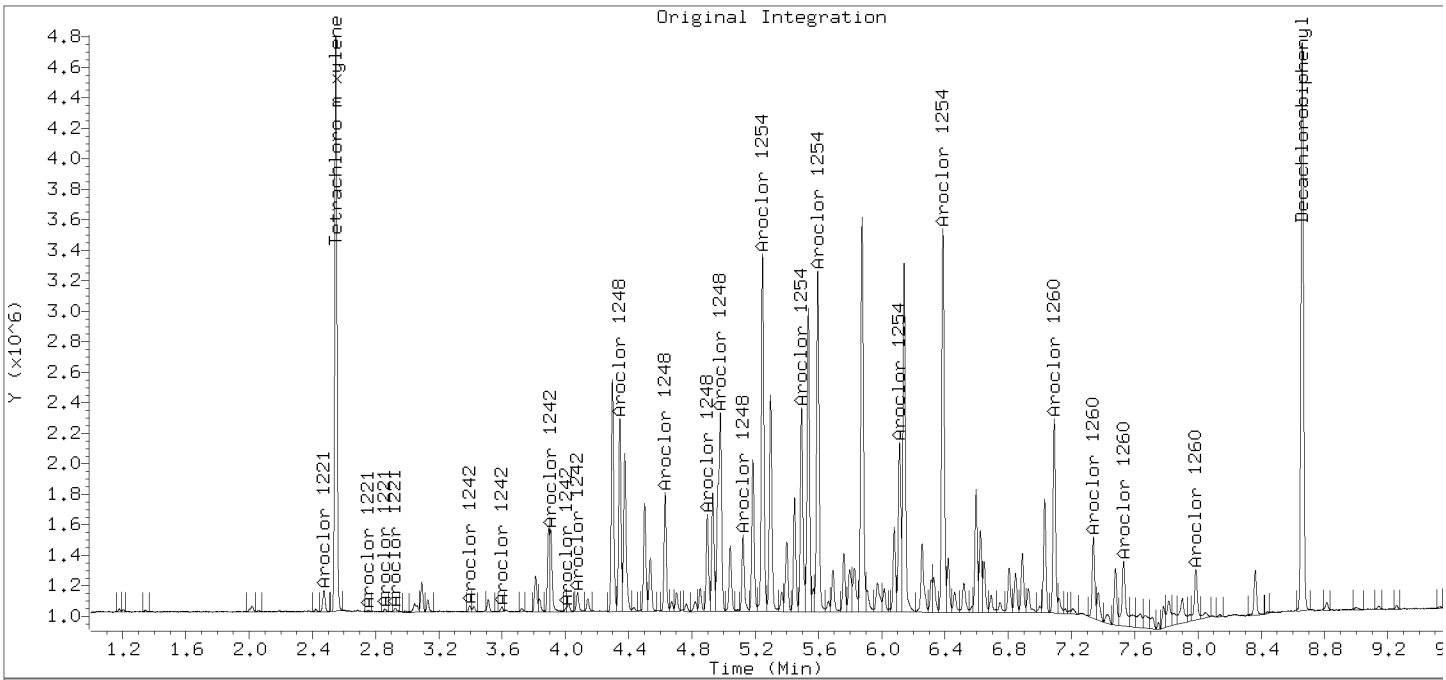
:

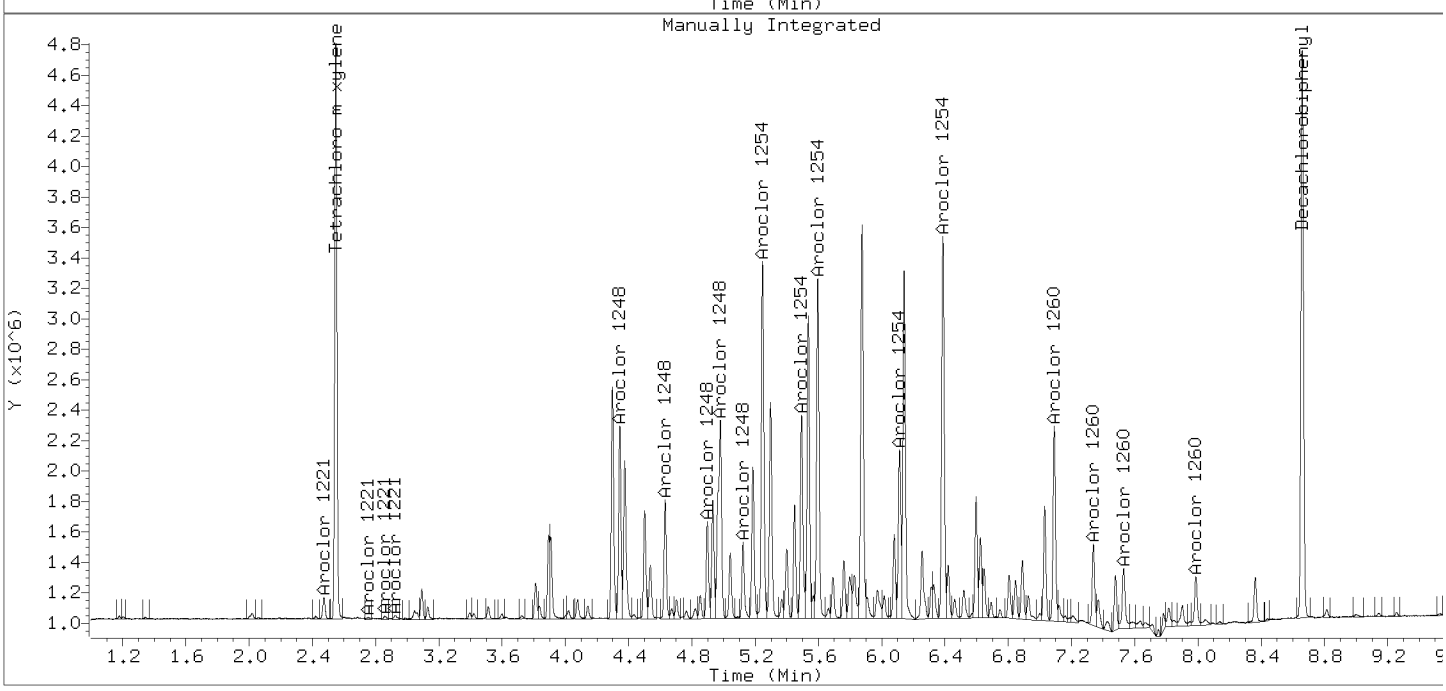
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718073.D
Date : 08-MAY-2018 13:16
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029009 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718073.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 13:16 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029009




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 42993 | 0 | |
| Aroclor 1016 | 42993 | 0 | |
| Aroclor 1016 | 42993 | 0 | |
| Aroclor 1016 | 42993 | 0 | |
| Aroclor 1016 | 42993 | 0 | |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1232 | 28894 | 0 | |
| Aroclor 1232 | 28894 | 0 | |
| Aroclor 1232 | 28894 | 0 | |
| Aroclor 1232 | 28894 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 28894 | 0 | |
| Aroclor 1242 | 42993 | 0 | |
| Aroclor 1242 | 42993 | 0 | |
| Aroclor 1242 | 42993 | 0 | |
| Aroclor 1242 | 42993 | 0 | |
| Aroclor 1242 | 42993 | 0 | |
| Aroclor 1248 | 1315226 | 1323111 | BA |
| Aroclor 1248 | 1315226 | 1323111 | BA |
| Aroclor 1248 | 1315226 | 1323111 | BA |
| Aroclor 1248 | 1315226 | 1323111 | BA |
| Aroclor 1248 | 1315226 | 1323111 | BA |
| Aroclor 1254 | 2652191 | 2651256 | BA |
| Aroclor 1254 | 2652191 | 2651256 | BA |
| Aroclor 1254 | 2652191 | 2651256 | BA |
| Aroclor 1254 | 2652191 | 2651256 | BA |
| Aroclor 1254 | 2652191 | 2651256 | BA |
| Aroclor 1260 | 2966425 | 0 | BA |
| Aroclor 1260 | 2966425 | 0 | BA |
| Aroclor 1260 | 2966425 | 0 | BA |
| Aroclor 1260 | 2966425 | 0 | BA |
| Aroclor 1260 | 2966425 | 0 | BA |
| Tetrachloro-m-xylene | 3674947 | 3709738 | BA |
| Decachlorobiphenyl | 4256049 | 4256049 | |

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SAMPLE NO.

AT1-170830-01-SFSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029010
Date Analyzed: 05/08/2018 13:32
Lab File ID: 050718.B\050718074.D
Initial wt/vol: 7.2759 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <31.3 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 121 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <31.3 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <31.3 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 420 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 248 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 233 | |
| 1336-36-3 | PCB, Total | 1020 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718074.D
Lab Smp Id: 40158029010 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029010 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 74
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 7.276 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.181 | 22360 | 24692 | 1.104 | 0.03 | | |
| 1.348 | 9772 | 9714 | 0.994 | 0.01 | | |
| 1.851 | 13976 | 11384 | 0.815 | 0.02 | 1 Aroclor 1221 | BA |
| 2.005 | 40847 | 24935 | 0.610 | 0.07 | | |
| 2.116 | 11873 | 8698 | 0.733 | 0.02 | | |
| 2.376 | 13676 | 11656 | 0.852 | 0.02 | | |
| 2.423 | 24328 | 23435 | 0.963 | 0.04 | | |
| 2.476 | 190959 | 172252 | 0.902 | 0.32 | 1 Aroclor 1221 | BA |
| 2.550 | 5938779 | 5981968 | 1.007 | 10.23 | $ 2 Tetrachloro-m-xylene | BA |
| 2.755 | 19971 | 13404 | 0.671 | 0.03 | 1 Aroclor 1221 | BA |
| 2.860 | 41868 | 27152 | 0.649 | 0.07 | 1 Aroclor 1221 | BA |
| 2.925 | 44449 | 30437 | 0.685 | 0.07 | 1 Aroclor 1221 | BA |
| 3.047 | 148064 | 96004 | 0.648 | 0.25 | | |
| 3.094 | 243740 | 247966 | 1.017 | 0.41 | | |
| 3.131 | 105202 | 97541 | 0.927 | 0.18 | | |
| 3.396 | 52728 | 47069 | 0.893 | 0.09 | | |
| 3.422 | 44053 | 39554 | 0.898 | 0.07 | | |
| 3.514 | 108188 | 95376 | 0.882 | 0.18 | | |
| 3.599 | 39531 | 36346 | 0.919 | 0.06 | | |
| 3.628 | 19042 | 17408 | 0.914 | 0.03 | | |
| 3.723 | 32949 | 28032 | 0.851 | 0.05 | | |
| 3.813 | 342961 | 333070 | 0.971 | 0.59 | | |
| 3.837 | 126466 | 119791 | 0.947 | 0.21 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.895 | 1277226 | 760834 | 0.596 | 2.20 | |
| 4.019 | 106699 | 67902 | 0.636 | 0.18 | |
| 4.078 | 183263 | 156818 | 0.856 | 0.31 | |
| 4.143 | 132804 | 112859 | 0.850 | 0.22 | |
| 4.298 | 1461762 | 1362415 | 0.932 | 2.51 | |
| 4.345 | 1485358 | 1434577 | 0.966 | 2.55 | 6 Aroclor 1248 |
| 4.376 | 1494324 | 1294119 | 0.866 | 2.57 | |
| 4.433 | 51433 | 37917 | 0.737 | 0.08 | |
| 4.502 | 618863 | 593666 | 0.959 | 1.06 | |
| 4.537 | 480693 | 432435 | 0.900 | 0.82 | |
| 4.631 | 864497 | 823896 | 0.953 | 1.48 | 6 Aroclor 1248 |
| 4.673 | 101068 | 92993 | 0.920 | 0.17 | |
| 4.704 | 160365 | 145496 | 0.907 | 0.27 | |
| 4.764 | 73689 | 63016 | 0.855 | 0.12 | |
| 4.821 | 107091 | 81725 | 0.763 | 0.18 | |
| 4.853 | 210270 | 199156 | 0.947 | 0.36 | |
| 4.898 | 585024 | 570712 | 0.976 | 1.00 | 6 Aroclor 1248 |
| 4.932 | 622692 | 595115 | 0.956 | 1.07 | |
| 4.965 | 1461885 | 769600 | 0.526 | 2.51 | 6 Aroclor 1248 |
| 5.043 | 375031 | 326521 | 0.871 | 0.64 | |
| 5.123 | 556118 | 506959 | 0.912 | 0.95 | 6 Aroclor 1248 |
| 5.186 | 717130 | 656988 | 0.916 | 1.23 | |
| 5.246 | 1320760 | 1128621 | 0.855 | 2.27 | 7 Aroclor 1254 |
| 5.298 | 1089418 | 938634 | 0.862 | 1.87 | |
| 5.367 | 139698 | 122062 | 0.874 | 0.24 | |
| 5.400 | 542289 | 473987 | 0.874 | 0.93 | |
| 5.449 | 345497 | 328290 | 0.950 | 0.59 | |
| 5.493 | 728128 | 665641 | 0.914 | 1.25 | 7 Aroclor 1254 |
| 5.537 | 2111251 | 1987918 | 0.942 | 3.63 | |
| 5.568 | 100208 | 116549 | 1.163 | 0.17 | |
| 5.596 | 1525524 | 1360512 | 0.892 | 2.62 | 7 Aroclor 1254 |
| 5.663 | 72221 | 65640 | 0.909 | 0.12 | |
| 5.693 | 169075 | 144033 | 0.852 | 0.29 | |
| 5.761 | 380321 | 354567 | 0.932 | 0.65 | |
| 5.797 | 244019 | 194456 | 0.797 | 0.42 | |
| 5.829 | 366819 | 256526 | 0.699 | 0.63 | |
| 5.876 | 2095334 | 1737328 | 0.829 | 3.60 | |
| 5.908 | 191341 | 150086 | 0.784 | 0.32 | |
| 5.972 | 264558 | 142737 | 0.540 | 0.45 | |
| 6.016 | 162961 | 142007 | 0.871 | 0.28 | |
| 6.079 | 554340 | 528580 | 0.954 | 0.95 | |
| 6.113 | 818190 | 715416 | 0.874 | 1.40 | 7 Aroclor 1254 |
| 6.141 | 2465201 | 2159634 | 0.876 | 4.24 | |
| 6.255 | 476617 | 322396 | 0.676 | 0.82 | |
| 6.314 | 153459 | 159118 | 1.037 | 0.26 | |
| 6.329 | 241721 | 199482 | 0.825 | 0.41 | |
| 6.387 | 2585417 | 2192974 | 0.848 | 4.45 | 8 Aroclor 1260 |
| 6.419 | 283675 | 254563 | 0.897 | 0.48 | |
| 6.461 | 99713 | 84973 | 0.852 | 0.17 | |
| 6.519 | 288117 | 229248 | 0.796 | 0.49 | |
| 6.596 | 1052145 | 975098 | 0.927 | 1.81 | |
| 6.623 | 452243 | 439383 | 0.972 | 0.77 | |
| 6.647 | 379762 | 342584 | 0.902 | 0.65 | |
| 6.691 | 112193 | 103678 | 0.924 | 0.19 | |
| 6.747 | 76385 | 66547 | 0.871 | 0.13 | |
| 6.806 | 356595 | 318791 | 0.894 | 0.61 | |
| 6.846 | 369826 | 320350 | 0.866 | 0.63 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.889 | 409764 | 362540 | 0.885 | 0.70 | |
| 6.926 | 248092 | 180895 | 0.729 | 0.42 | |
| 6.999 | 69061 | 55183 | 0.799 | 0.11 | |
| 7.030 | 1025480 | 957740 | 0.934 | 1.76 | |
| 7.091 | 1669370 | 1499734 | 0.898 | 2.87 | 8 Aroclor 1260 |
| 7.122 | 171311 | 128280 | 0.749 | 0.29 | |
| 7.159 | 49239 | 43626 | 0.886 | 0.08 | |
| 7.185 | 19821 | 30501 | 1.539 | 0.03 | |
| 7.209 | 108664 | 54295 | 0.500 | 0.18 | |
| 7.268 | 48403 | 24072 | 0.497 | 0.08 | |
| 7.338 | 667704 | 602756 | 0.903 | 1.15 | 8 Aroclor 1260 |
| 7.367 | 278644 | 208539 | 0.748 | 0.48 | |
| 7.428 | 97320 | 51077 | 0.525 | 0.16 | |
| 7.476 | 495876 | 452943 | 0.913 | 0.85 | |
| 7.529 | 621812 | 497633 | 0.800 | 1.07 | 8 Aroclor 1260 |
| 7.579 | 96426 | 44333 | 0.460 | 0.16 | |
| 7.617 | 22276 | 31563 | 1.417 | 0.03 | |
| 7.637 | 63360 | 45417 | 0.717 | 0.10 | |
| 7.666 | 55644 | 30159 | 0.542 | 0.09 | |
| 7.706 | 48511 | 32225 | 0.664 | 0.08 | |
| 7.746 | 31039 | 36693 | 1.182 | 0.05 | |
| 7.779 | 146978 | 130053 | 0.885 | 0.25 | |
| 7.813 | 192279 | 143473 | 0.746 | 0.33 | |
| 7.847 | 55904 | 38641 | 0.691 | 0.09 | |
| 7.899 | 233224 | 154105 | 0.661 | 0.40 | |
| 7.949 | 37687 | 28526 | 0.757 | 0.06 | |
| 7.985 | 469824 | 400738 | 0.853 | 0.80 | 8 Aroclor 1260 |
| 8.048 | 84243 | 39162 | 0.465 | 0.14 | |
| 8.097 | 16126 | 12329 | 0.765 | 0.02 | |
| 8.135 | 21671 | 15770 | 0.728 | 0.03 | |
| 8.360 | 378752 | 339943 | 0.898 | 0.65 | |
| 8.442 | 11335 | 9779 | 0.863 | 0.01 | |
| 8.464 | 9961 | 10098 | 1.014 | 0.01 | |
| 8.491 | 13974 | 12171 | 0.871 | 0.02 | |
| 8.658 | 6501720 | 5660729 | 0.871 | 11.84 | $ 12 Decachlorobiphenyl |
| 8.789 | 26067 | 26512 | 1.017 | 0.04 | |
| 8.813 | 68855 | 58236 | 0.846 | 0.11 | |
| 8.921 | 12998 | 12258 | 0.943 | 0.02 | |
| 9.140 | 34416 | 27352 | 0.795 | 0.05 | |
| 9.254 | 27040 | 26428 | 0.977 | 0.04 | |
| 9.523 | 15358 | 14357 | 0.935 | 0.02 | |
| 9.823 | 10179 | 8890 | 0.873 | 0.01 | |
| | 58044497 | 50845766 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718074.D
Lab Smp Id: 40158029010 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029010 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 74
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 7.276 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.850 | 1.853 | -0.003 | 13976 | 0.01411 | 19 | 0.00- 20.00 | 100.00(M) | BA |
| 2.475 | 2.471 | 0.004 | 190958 | 0.36222 | 500 | 0.00- 20.00 | 1366.33 | BA |
| 2.755 | 2.758 | -0.003 | 19971 | 0.01440 | 20 | 0.00- 20.00 | 142.89 | BA |
| 2.860 | 2.860 | 0.000 | 41868 | 0.03794 | 52 | 0.00- 20.00 | 299.57 | BA |
| 2.925 | 2.923 | 0.002 | 44448 | 0.01330 | 18 | 0.00- 20.00 | 318.03 | BA |
| Average of Peak Concentrations = | | | | | 120 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5938778 | 0.04931 | 68 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1485358 | 0.62270 | 860 | 0.00- 20.00 | 100.00(M) | BA |
| 4.631 | 4.630 | 0.001 | 864497 | 0.20353 | 280 | 0.00- 20.00 | 58.20 | BA |
| 4.897 | 4.898 | -0.001 | 585023 | 0.28719 | 390 | 0.00- 20.00 | 39.39 | BA |
| 4.965 | 4.963 | 0.002 | 1461885 | 0.26689 | 370 | 0.00- 20.00 | 98.42 | BA |
| 5.123 | 5.123 | 0.000 | 556118 | 0.14699 | 200 | 0.00- 20.00 | 37.44 | BA |
| Average of Peak Concentrations = | | | | | 420 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1320759 | 0.23419 | 320 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 728127 | 0.15612 | 210 | 0.00- 20.00 | 55.13 | BA |
| 5.596 | 5.596 | 0.000 | 1525523 | 0.17817 | 240 | 0.00- 20.00 | 115.50 | BA |
| 6.113 | 6.113 | 0.000 | 818190 | 0.15400 | 210 | 0.00- 20.00 | 61.95 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 250 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 2585417 | 0.25828 | 350 | 0.00- 20.00 | 100.00(M) | BA |
| 7.091 | 7.090 | 0.001 | 1669370 | 0.14184 | 190 | 0.00- 20.00 | 64.57 | BA |
| 7.337 | 7.338 | -0.001 | 667703 | 0.11805 | 160 | 0.00- 20.00 | 25.83 | BA |
| 7.529 | 7.529 | 0.000 | 621812 | 0.18188 | 250 | 0.00- 20.00 | 24.05 | BA |
| 7.985 | 7.987 | -0.002 | 469823 | 0.14835 | 200 | 0.00- 20.00 | 18.17 | BA |
| Average of Peak Concentrations = | | | | | 230 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6501719 | 0.04882 | 67 | | | |

QC Flag Legend

M - Compound response manually integrated.

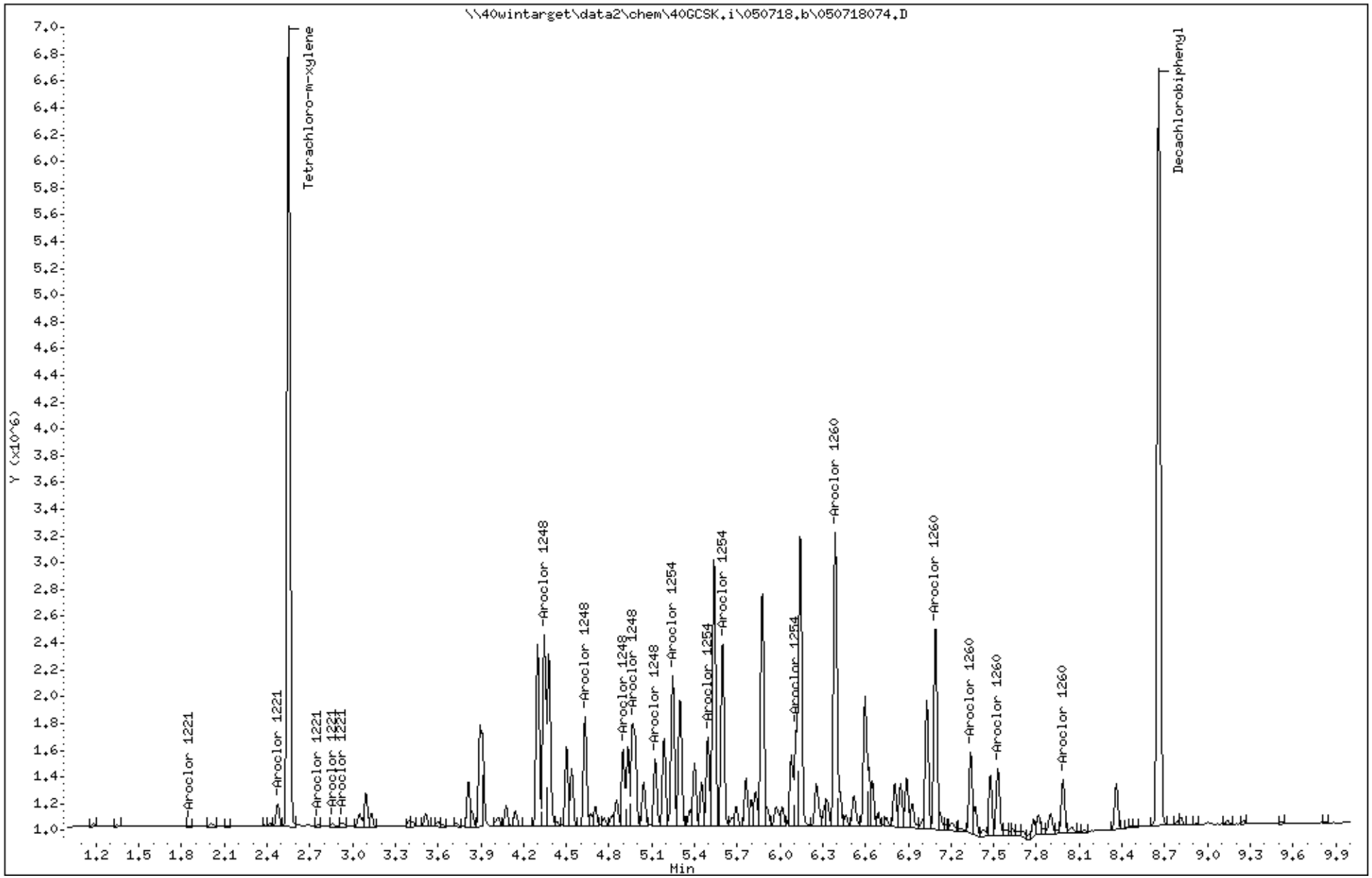
Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

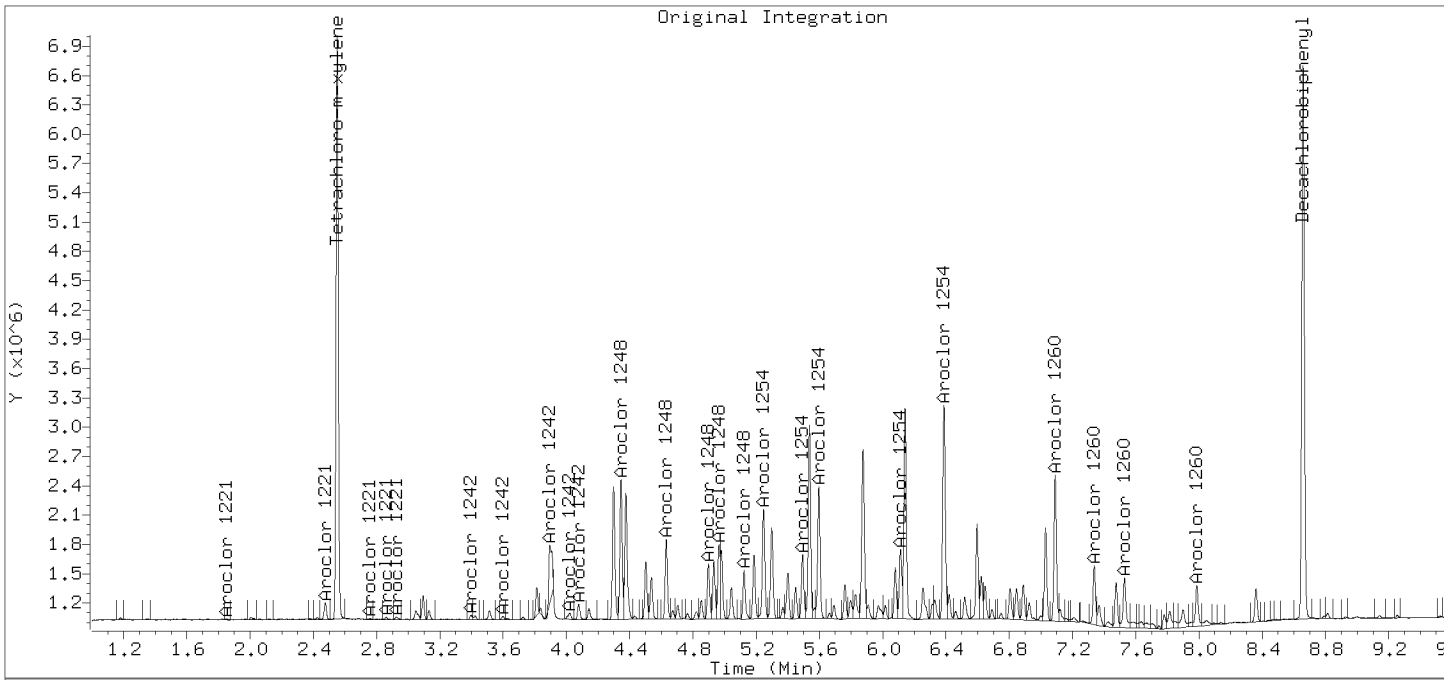
:

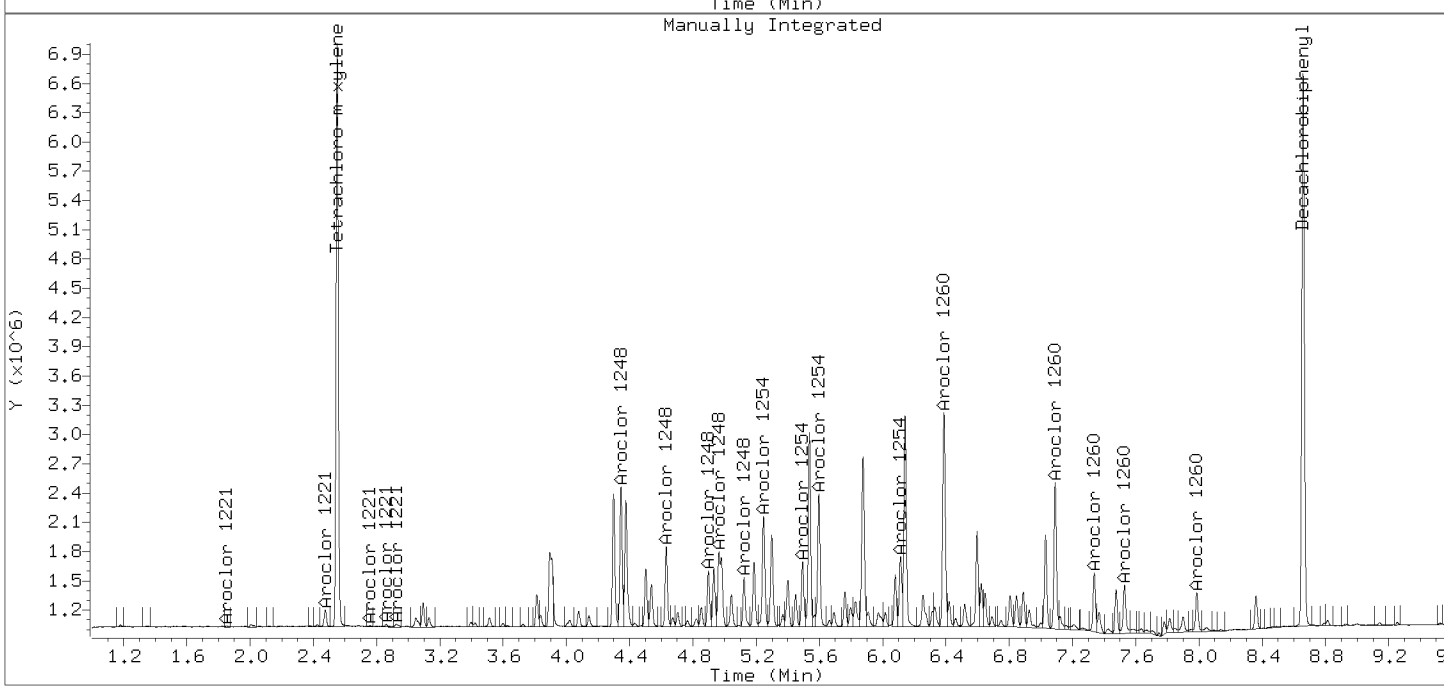
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718074.D
Date : 08-MAY-2018 13:32
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718074.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 13:32 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029010




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 52728 | 0 | |
| Aroclor 1016 | 52728 | 0 | |
| Aroclor 1016 | 52728 | 0 | |
| Aroclor 1016 | 52728 | 0 | |
| Aroclor 1016 | 52728 | 0 | |
| Aroclor 1221 | 12338 | 13976 | BA |
| Aroclor 1221 | 12338 | 13976 | BA |
| Aroclor 1221 | 12338 | 13976 | BA |
| Aroclor 1221 | 12338 | 13976 | BA |
| Aroclor 1221 | 12338 | 13976 | BA |
| Aroclor 1232 | 31834 | 0 | |
| Aroclor 1232 | 31834 | 0 | |
| Aroclor 1232 | 31834 | 0 | |
| Aroclor 1232 | 31834 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 31834 | 0 | |
| Aroclor 1242 | 52728 | 0 | |
| Aroclor 1242 | 52728 | 0 | |
| Aroclor 1242 | 52728 | 0 | |
| Aroclor 1242 | 52728 | 0 | |
| Aroclor 1242 | 52728 | 0 | |
| Aroclor 1248 | 1474313 | 1485358 | BA |
| Aroclor 1248 | 1474313 | 1485358 | BA |
| Aroclor 1248 | 1474313 | 1485358 | BA |
| Aroclor 1248 | 1474313 | 1485358 | BA |
| Aroclor 1248 | 1474313 | 1485358 | BA |
| Aroclor 1254 | 1277157 | 1320759 | BA |
| Aroclor 1254 | 1277157 | 1320759 | BA |
| Aroclor 1254 | 1277157 | 1320759 | BA |
| Aroclor 1254 | 1277157 | 1320759 | BA |
| Aroclor 1254 | 1277157 | 1320759 | BA |
| Aroclor 1260 | 2562208 | 2585417 | BA |
| Aroclor 1260 | 2562208 | 2585417 | BA |
| Aroclor 1260 | 2562208 | 2585417 | BA |
| Aroclor 1260 | 2562208 | 2585417 | BA |
| Aroclor 1260 | 2562208 | 2585417 | BA |
| Tetrachloro-m-xylene | 5897688 | 5938778 | BA |
| Decachlorobiphenyl | 6501719 | 6501719 | |

==========

SAMPLE NO.

AT1-170830-01-SFSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158029011
Date Analyzed: 05/08/2018 14:51
Lab File ID: 050718.B\050718079.D
Initial wt/vol: 9.9867 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 89.5 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 297 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 180 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 152 | |
| 1336-36-3 | PCB, Total | 720 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718079.D
Lab Smp Id: 40158029011 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 14:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029011 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 79
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.987 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 1.181 | 20392 | 24478 | 1.200 | 0.03 | | | |
| 1.207 | 25705 | 26559 | 1.033 | 0.04 | | | |
| 1.821 | 13132 | 12527 | 0.954 | 0.02 | | | |
| 1.857 | 9057 | 9330 | 1.030 | 0.01 | | 1 Aroclor 1221 | CO |
| 1.882 | 3907 | 5617 | 1.438 | 0.00 | | | |
| 2.004 | 40958 | 26765 | 0.653 | 0.07 | | | |
| 2.185 | 23584 | 15218 | 0.645 | 0.04 | | | |
| 2.230 | 13739 | 14234 | 1.036 | 0.02 | | | |
| 2.379 | 21173 | 19317 | 0.912 | 0.03 | | | |
| 2.424 | 30064 | 25214 | 0.839 | 0.05 | | | |
| 2.475 | 197198 | 172407 | 0.874 | 0.35 | | 1 Aroclor 1221 | CO |
| 2.550 | 5664283 | 5789211 | 1.022 | 10.25 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.686 | 25571 | 15770 | 0.617 | 0.04 | | | |
| 2.754 | 21514 | 16071 | 0.747 | 0.03 | | 1 Aroclor 1221 | CO |
| 2.860 | 38271 | 26282 | 0.687 | 0.06 | | 1 Aroclor 1221 | CO |
| 2.926 | 45903 | 29678 | 0.647 | 0.08 | | 1 Aroclor 1221 | CO |
| 3.047 | 126402 | 76474 | 0.605 | 0.22 | | | |
| 3.093 | 258148 | 259746 | 1.006 | 0.46 | | | |
| 3.131 | 101892 | 96681 | 0.949 | 0.18 | | | |
| 3.320 | 19743 | 11945 | 0.605 | 0.03 | | | |
| 3.396 | 54627 | 50742 | 0.929 | 0.09 | | | |
| 3.423 | 48875 | 43067 | 0.881 | 0.08 | | | |
| 3.513 | 120714 | 94571 | 0.783 | 0.21 | | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.601 | 50408 | 40474 | 0.803 | 0.09 | |
| 3.628 | 21694 | 20863 | 0.962 | 0.03 | |
| 3.725 | 36309 | 29691 | 0.818 | 0.06 | |
| 3.813 | 351878 | 337324 | 0.959 | 0.63 | |
| 3.837 | 132256 | 121300 | 0.917 | 0.23 | |
| 3.895 | 763526 | 795148 | 1.041 | 1.38 | |
| 3.907 | 708203 | 711920 | 1.005 | 1.28 | |
| 4.021 | 112279 | 63843 | 0.569 | 0.20 | |
| 4.077 | 199786 | 173312 | 0.867 | 0.36 | |
| 4.143 | 130582 | 108166 | 0.828 | 0.23 | |
| 4.298 | 1441099 | 1331291 | 0.924 | 2.60 | |
| 4.345 | 1442659 | 1404364 | 0.973 | 2.61 | 6 Aroclor 1248 |
| 4.376 | 1376490 | 1179363 | 0.857 | 2.49 | |
| 4.433 | 52284 | 42077 | 0.805 | 0.09 | |
| 4.502 | 639251 | 609756 | 0.954 | 1.15 | |
| 4.537 | 484245 | 423561 | 0.875 | 0.87 | |
| 4.631 | 843087 | 814572 | 0.966 | 1.52 | 6 Aroclor 1248 |
| 4.673 | 84892 | 75659 | 0.891 | 0.15 | |
| 4.704 | 160249 | 145473 | 0.908 | 0.29 | |
| 4.745 | 19133 | 20129 | 1.052 | 0.03 | |
| 4.763 | 67636 | 58712 | 0.868 | 0.12 | |
| 4.823 | 100864 | 76395 | 0.757 | 0.18 | |
| 4.852 | 177817 | 175239 | 0.986 | 0.32 | |
| 4.898 | 561611 | 543132 | 0.967 | 1.01 | 6 Aroclor 1248 |
| 4.932 | 658207 | 639980 | 0.972 | 1.19 | |
| 4.964 | 1408263 | 735423 | 0.522 | 2.54 | 6 Aroclor 1248 |
| 5.042 | 353835 | 308744 | 0.873 | 0.64 | |
| 5.087 | 17264 | 17840 | 1.033 | 0.03 | |
| 5.123 | 561006 | 506480 | 0.903 | 1.01 | 6 Aroclor 1248 |
| 5.186 | 681911 | 632472 | 0.927 | 1.23 | |
| 5.247 | 1317236 | 1114921 | 0.846 | 2.38 | 7 Aroclor 1254 |
| 5.298 | 1034773 | 869744 | 0.841 | 1.87 | |
| 5.338 | 14719 | 15348 | 1.043 | 0.02 | |
| 5.369 | 119789 | 108010 | 0.902 | 0.21 | |
| 5.400 | 545046 | 485026 | 0.890 | 0.98 | |
| 5.449 | 372324 | 341678 | 0.918 | 0.67 | |
| 5.493 | 735751 | 675975 | 0.919 | 1.33 | 7 Aroclor 1254 |
| 5.537 | 2144405 | 2067104 | 0.964 | 3.88 | |
| 5.567 | 100143 | 111097 | 1.109 | 0.18 | |
| 5.596 | 1564724 | 1396821 | 0.893 | 2.83 | 7 Aroclor 1254 |
| 5.663 | 62621 | 53624 | 0.856 | 0.11 | |
| 5.690 | 183986 | 155352 | 0.844 | 0.33 | |
| 5.761 | 313794 | 292018 | 0.931 | 0.56 | |
| 5.796 | 235409 | 173023 | 0.735 | 0.42 | |
| 5.828 | 305144 | 227541 | 0.746 | 0.55 | |
| 5.875 | 2004583 | 1662086 | 0.829 | 3.62 | |
| 5.908 | 171536 | 138681 | 0.808 | 0.31 | |
| 5.972 | 241512 | 127555 | 0.528 | 0.43 | |
| 6.017 | 135854 | 116379 | 0.857 | 0.24 | |
| 6.052 | 21002 | 26950 | 1.283 | 0.03 | |
| 6.079 | 494199 | 455623 | 0.922 | 0.89 | |
| 6.112 | 780309 | 720410 | 0.923 | 1.41 | 7 Aroclor 1254 |
| 6.141 | 2198186 | 1863208 | 0.848 | 3.97 | |
| 6.256 | 458656 | 306822 | 0.669 | 0.83 | |
| 6.314 | 140526 | 148547 | 1.057 | 0.25 | |
| 6.329 | 212023 | 173694 | 0.819 | 0.38 | |
| 6.386 | 2328565 | 1957687 | 0.841 | 4.21 | 8 Aroclor 1260 |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.420 | 257597 | 235784 | 0.915 | 0.46 | |
| 6.460 | 92785 | 79244 | 0.854 | 0.16 | |
| 6.519 | 243330 | 185345 | 0.762 | 0.44 | |
| 6.595 | 874680 | 793709 | 0.907 | 1.58 | |
| 6.623 | 420577 | 407533 | 0.969 | 0.76 | |
| 6.647 | 316439 | 291540 | 0.921 | 0.57 | |
| 6.690 | 86739 | 84782 | 0.977 | 0.15 | |
| 6.746 | 58784 | 54666 | 0.930 | 0.10 | |
| 6.805 | 304938 | 271755 | 0.891 | 0.55 | |
| 6.846 | 304862 | 269219 | 0.883 | 0.55 | |
| 6.888 | 360826 | 321854 | 0.892 | 0.65 | |
| 6.926 | 230898 | 158283 | 0.686 | 0.41 | |
| 7.000 | 59806 | 50694 | 0.848 | 0.10 | |
| 7.029 | 962487 | 895099 | 0.930 | 1.74 | |
| 7.090 | 1456759 | 1328758 | 0.912 | 2.63 | 8 Aroclor 1260 |
| 7.120 | 96542 | 115302 | 1.194 | 0.17 | |
| 7.187 | 37918 | 37607 | 0.992 | 0.06 | |
| 7.208 | 108299 | 58332 | 0.539 | 0.19 | |
| 7.259 | 56882 | 24395 | 0.429 | 0.10 | |
| 7.338 | 586158 | 521470 | 0.890 | 1.06 | 8 Aroclor 1260 |
| 7.368 | 259202 | 193064 | 0.745 | 0.46 | |
| 7.428 | 104774 | 60223 | 0.575 | 0.18 | |
| 7.477 | 416917 | 383775 | 0.921 | 0.75 | |
| 7.529 | 573937 | 432230 | 0.753 | 1.03 | 8 Aroclor 1260 |
| 7.634 | 65302 | 44473 | 0.681 | 0.11 | |
| 7.669 | 63809 | 34224 | 0.536 | 0.11 | |
| 7.708 | 48088 | 34636 | 0.720 | 0.08 | |
| 7.749 | 38021 | 44147 | 1.161 | 0.06 | |
| 7.782 | 127394 | 110674 | 0.869 | 0.23 | |
| 7.813 | 179955 | 135701 | 0.754 | 0.32 | |
| 7.844 | 75793 | 47818 | 0.631 | 0.13 | |
| 7.899 | 229929 | 143640 | 0.625 | 0.41 | |
| 7.947 | 44733 | 31654 | 0.708 | 0.08 | |
| 7.986 | 421387 | 343777 | 0.816 | 0.76 | 8 Aroclor 1260 |
| 8.042 | 93965 | 38826 | 0.413 | 0.17 | |
| 8.091 | 20045 | 14451 | 0.721 | 0.03 | |
| 8.136 | 21976 | 19455 | 0.885 | 0.03 | |
| 8.360 | 373645 | 321189 | 0.860 | 0.67 | |
| 8.435 | 16747 | 14735 | 0.880 | 0.03 | |
| 8.467 | 16421 | 10192 | 0.621 | 0.02 | |
| 8.657 | 6095098 | 5236362 | 0.859 | 11.67 | $ 12 Decachlorobiphenyl |
| 8.812 | 65136 | 52604 | 0.808 | 0.11 | |
| 8.931 | 20202 | 13184 | 0.653 | 0.03 | |
| 8.998 | 34594 | 20336 | 0.588 | 0.06 | |
| 9.139 | 31015 | 26760 | 0.863 | 0.05 | |
| 9.253 | 52040 | 29759 | 0.572 | 0.09 | |
| 9.525 | 28011 | 19437 | 0.694 | 0.05 | |
| 9.569 | 9609 | 8585 | 0.893 | 0.01 | |
| | 55245441 | 48840813 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718079.D
Lab Smp Id: 40158029011 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 14:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029011 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 79
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.987 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.857 | 1.853 | 0.004 | 9056 | 0.00914 | 9.2 | 0.00- 20.00 | 100.00(M) | CO |
| 2.474 | 2.471 | 0.003 | 197197 | 0.37406 | 370 | 0.00- 20.00 | 2177.53 | CO |
| 2.753 | 2.758 | -0.005 | 21514 | 0.01551 | 16 | 0.00- 20.00 | 237.57 | CO |
| 2.860 | 2.860 | 0.000 | 38270 | 0.03468 | 35 | 0.00- 20.00 | 422.59 | CO |
| 2.924 | 2.923 | 0.001 | 45903 | 0.01373 | 14 | 0.00- 20.00 | 506.88 | CO |
| Average of Peak Concentrations = | | | | | 90 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5664282 | 0.04703 | 47 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.345 | 4.343 | 0.002 | 1442659 | 0.60480 | 600 | 0.00- 20.00 | 100.00(M) | BA |
| 4.631 | 4.630 | 0.001 | 843087 | 0.19849 | 200 | 0.00- 20.00 | 58.44 | BA |
| 4.897 | 4.898 | -0.001 | 561610 | 0.27570 | 280 | 0.00- 20.00 | 38.93 | BA |
| 4.964 | 4.963 | 0.001 | 1408263 | 0.25710 | 260 | 0.00- 20.00 | 97.62 | BA |
| 5.122 | 5.123 | -0.001 | 561006 | 0.14829 | 150 | 0.00- 20.00 | 38.89 | BA |
| Average of Peak Concentrations = | | | | | 300 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1317236 | 0.23357 | 230 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 735751 | 0.15776 | 160 | 0.00- 20.00 | 55.86 | BA |
| 5.596 | 5.596 | 0.000 | 1564724 | 0.18275 | 180 | 0.00- 20.00 | 118.79 | BA |
| 6.112 | 6.113 | -0.001 | 780309 | 0.14687 | 150 | 0.00- 20.00 | 59.24 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 180 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 2328565 | 0.23262 | 230 | 0.00- 20.00 | 100.00(M) | CO |
| 7.089 | 7.090 | -0.001 | 1456759 | 0.12378 | 120 | 0.00- 20.00 | 62.56 | CO |
| 7.338 | 7.338 | 0.000 | 586157 | 0.10363 | 100 | 0.00- 20.00 | 25.17 | CO |
| 7.528 | 7.529 | -0.001 | 573937 | 0.16788 | 170 | 0.00- 20.00 | 24.65 | CO |
| 7.986 | 7.987 | -0.001 | 421387 | 0.13305 | 130 | 0.00- 20.00 | 18.10 | CO |
| Average of Peak Concentrations = | | | | | 150 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 6095098 | 0.04576 | 46 | | | |

QC Flag Legend

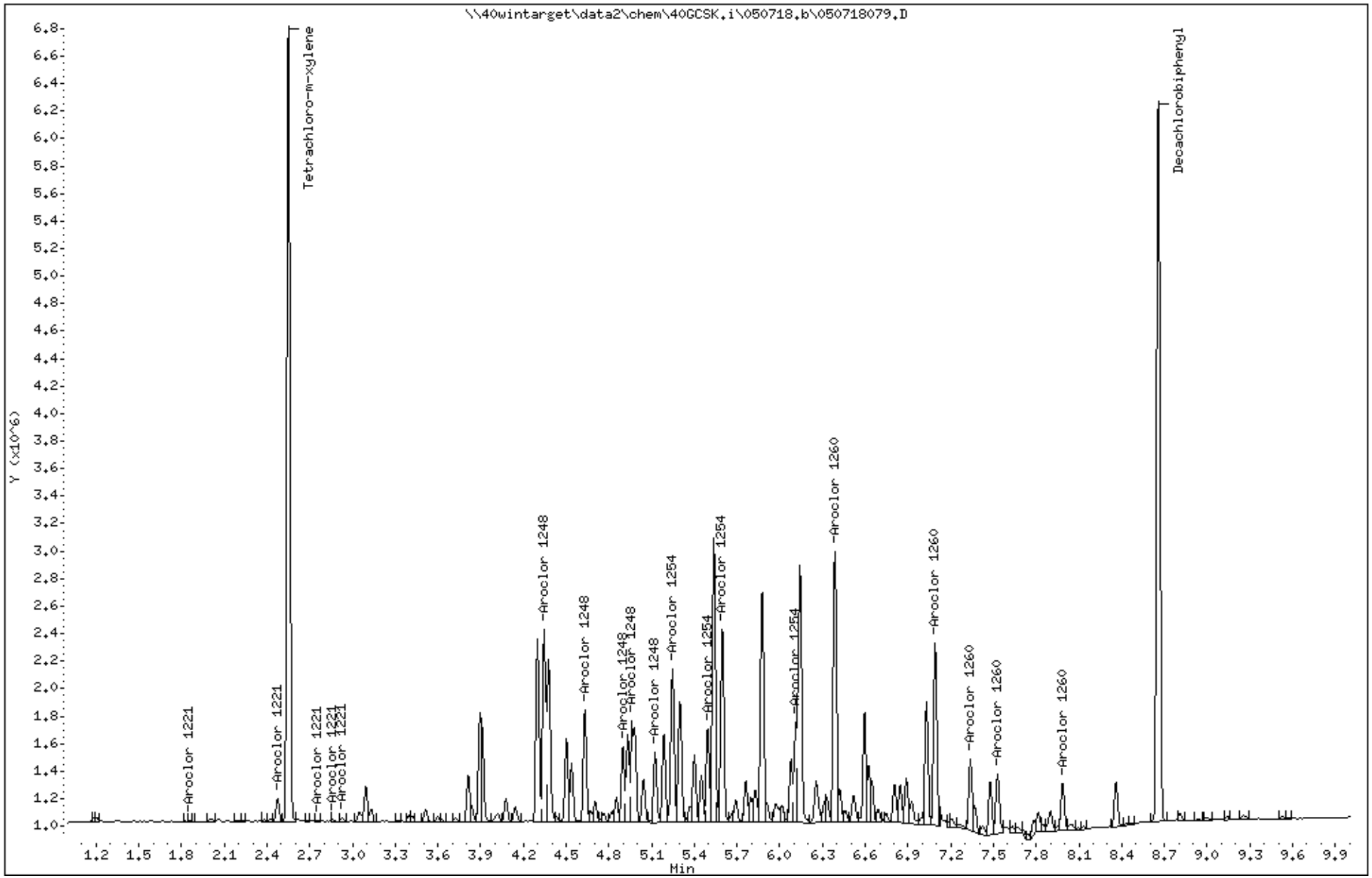
M - Compound response manually integrated.

Review Codes Legend

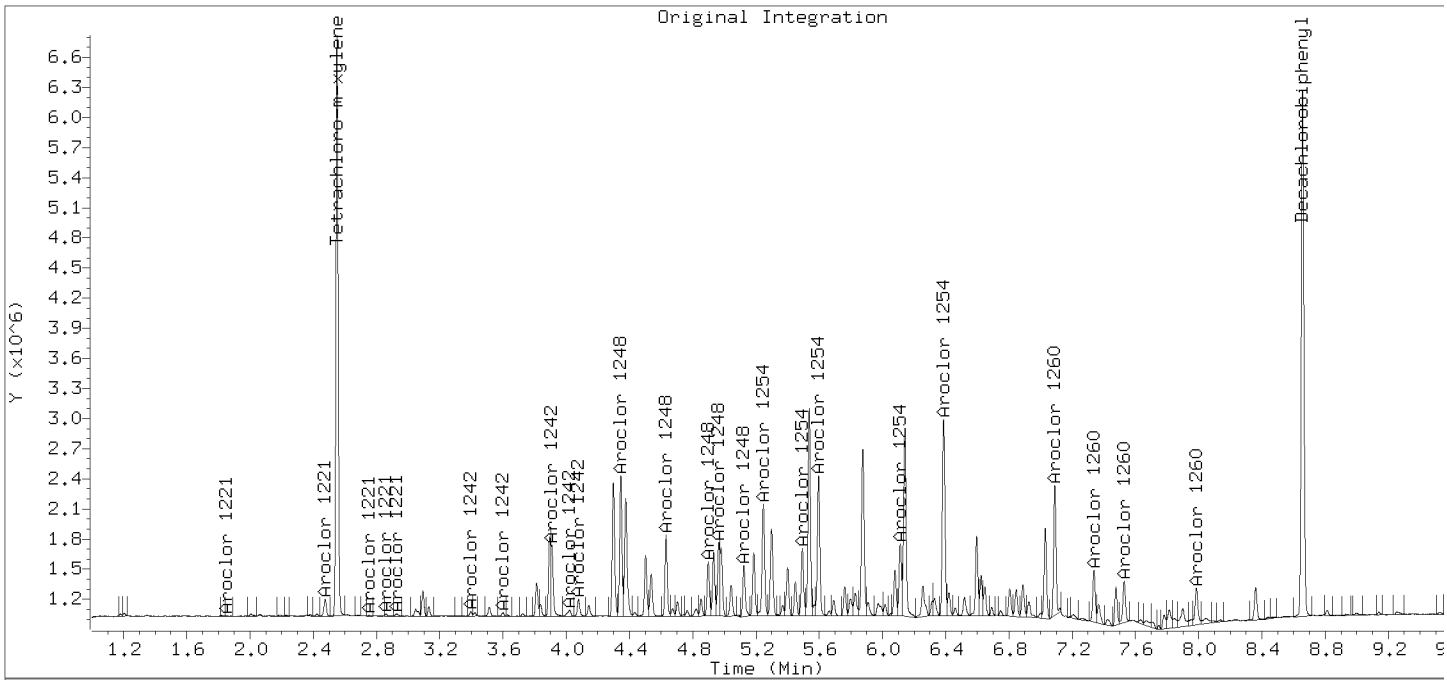
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

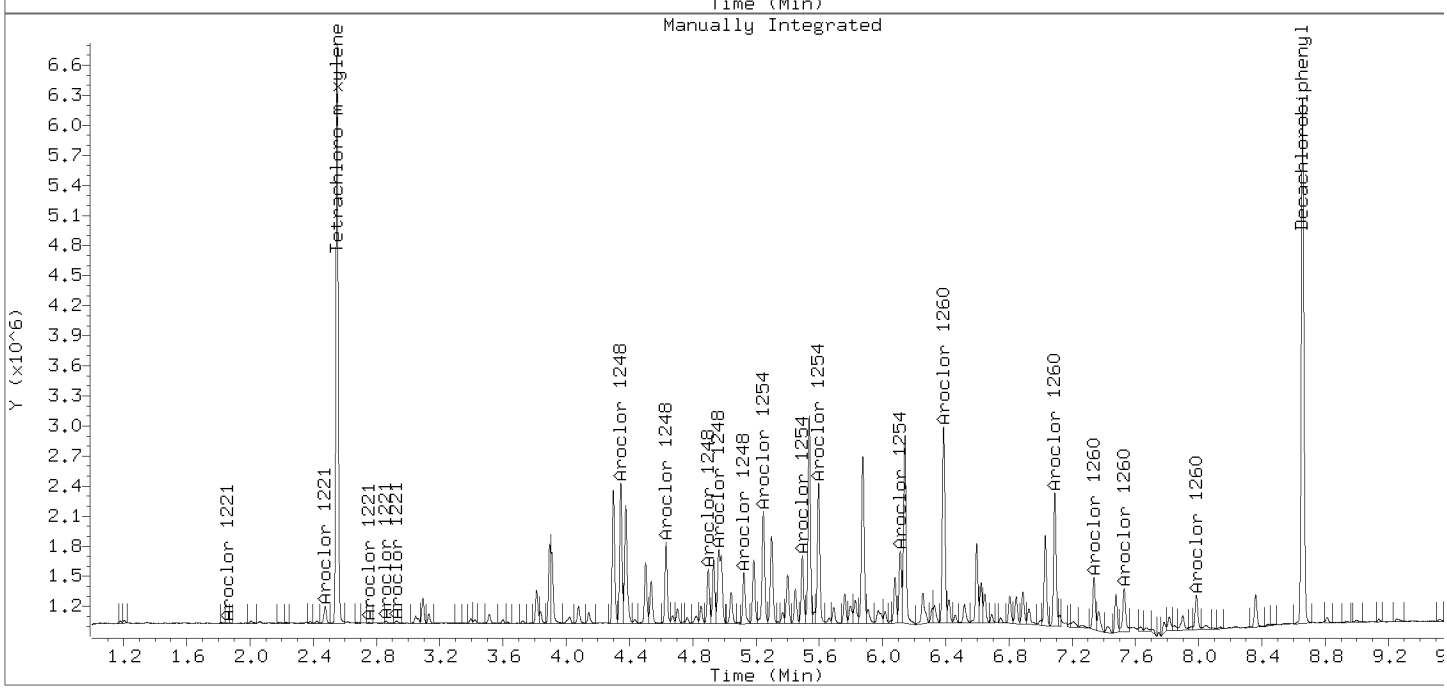
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718079.D
Date : 08-MAY-2018 14:51
Client ID: AT1-170830-01-SFSH-
Sample Info: 40158029011 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718079.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 14:51 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029011




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 48002 | 0 | |
| Aroclor 1016 | 48002 | 0 | |
| Aroclor 1016 | 48002 | 0 | |
| Aroclor 1016 | 48002 | 0 | |
| Aroclor 1016 | 48002 | 0 | |
| Aroclor 1221 | 12979 | 9056 | CO |
| Aroclor 1221 | 12979 | 9056 | CO |
| Aroclor 1221 | 12979 | 9056 | CO |
| Aroclor 1221 | 12979 | 9056 | CO |
| Aroclor 1221 | 12979 | 9056 | CO |
| Aroclor 1232 | 36451 | 0 | |
| Aroclor 1232 | 36451 | 0 | |
| Aroclor 1232 | 36451 | 0 | |
| Aroclor 1232 | 36451 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 36451 | 0 | |
| Aroclor 1242 | 48002 | 0 | |
| Aroclor 1242 | 48002 | 0 | |
| Aroclor 1242 | 48002 | 0 | |
| Aroclor 1242 | 48002 | 0 | |
| Aroclor 1242 | 48002 | 0 | |
| Aroclor 1248 | 1434973 | 1442659 | BA |
| Aroclor 1248 | 1434973 | 1442659 | BA |
| Aroclor 1248 | 1434973 | 1442659 | BA |
| Aroclor 1248 | 1434973 | 1442659 | BA |
| Aroclor 1248 | 1434973 | 1442659 | BA |
| Aroclor 1254 | 1304410 | 1317236 | BA |
| Aroclor 1254 | 1304410 | 1317236 | BA |
| Aroclor 1254 | 1304410 | 1317236 | BA |
| Aroclor 1254 | 1304410 | 1317236 | BA |
| Aroclor 1254 | 1304410 | 1317236 | BA |
| Aroclor 1260 | 2314886 | 2328565 | CO |
| Aroclor 1260 | 2314886 | 2328565 | CO |
| Aroclor 1260 | 2314886 | 2328565 | CO |
| Aroclor 1260 | 2314886 | 2328565 | CO |
| Aroclor 1260 | 2314886 | 2328565 | CO |
| Tetrachloro-m-xylene | 5614928 | 5664282 | BA |
| Decachlorobiphenyl | 6095098 | 6095098 | |

==========

SAMPLE NO.

AT1-170830-01-MIN-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158029012
Date Analyzed: 05/08/2018 18:50
Lab File ID: 050718.B\050718094.D
Initial wt/vol: 9.9826 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 113 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 232 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 177 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 78.6 | J |
| 1336-36-3 | PCB, Total | 600 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718094.D
Lab Smp Id: 40158029012 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 18:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029012 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 94
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.983 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.179 | 18496 | 17525 | 0.948 | 0.03 | | |
| 1.349 | 10286 | 8156 | 0.793 | 0.02 | | |
| 2.005 | 10866 | 10800 | 0.994 | 0.02 | | |
| 2.475 | 201192 | 178161 | 0.886 | 0.43 | 1 Aroclor 1221 | BA |
| 2.550 | 5466756 | 5584553 | 1.022 | 11.68 | $ 2 Tetrachloro-m-xylene | BA |
| 2.757 | 15515 | 9468 | 0.610 | 0.03 | 1 Aroclor 1221 | BA |
| 2.858 | 34641 | 26898 | 0.776 | 0.07 | 1 Aroclor 1221 | BA |
| 2.925 | 88051 | 70593 | 0.802 | 0.18 | 1 Aroclor 1221 | BA |
| 3.065 | 18676 | 15909 | 0.852 | 0.03 | | |
| 3.096 | 58818 | 59816 | 1.017 | 0.12 | | |
| 3.132 | 185055 | 178866 | 0.967 | 0.39 | | |
| 3.397 | 165246 | 164955 | 0.998 | 0.35 | | |
| 3.423 | 215202 | 205471 | 0.955 | 0.46 | | |
| 3.513 | 271725 | 261913 | 0.964 | 0.58 | | |
| 3.599 | 297424 | 269315 | 0.905 | 0.63 | | |
| 3.728 | 27578 | 24750 | 0.897 | 0.05 | | |
| 3.813 | 164164 | 158524 | 0.966 | 0.35 | | |
| 3.838 | 50074 | 43653 | 0.872 | 0.10 | | |
| 3.897 | 406209 | 454747 | 1.119 | 0.86 | | |
| 3.907 | 468164 | 467838 | 0.999 | 1.00 | | |
| 4.022 | 267323 | 231976 | 0.868 | 0.57 | | |
| 4.076 | 168853 | 153883 | 0.911 | 0.36 | | |
| 4.143 | 121781 | 95764 | 0.786 | 0.26 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.220 | 40284 | 30543 | 0.758 | 0.08 | |
| 4.298 | 1120958 | 1035180 | 0.923 | 2.39 | |
| 4.345 | 1043083 | 1011069 | 0.969 | 2.22 | 6 Aroclor 1248 |
| 4.376 | 1069701 | 896712 | 0.838 | 2.28 | |
| 4.433 | 63804 | 50237 | 0.787 | 0.13 | |
| 4.502 | 464193 | 424373 | 0.914 | 0.99 | |
| 4.538 | 349171 | 311011 | 0.891 | 0.74 | |
| 4.630 | 879926 | 800644 | 0.910 | 1.88 | 6 Aroclor 1248 |
| 4.675 | 68604 | 63252 | 0.922 | 0.14 | |
| 4.705 | 95441 | 82174 | 0.861 | 0.20 | |
| 4.742 | 32162 | 34444 | 1.071 | 0.06 | |
| 4.766 | 60004 | 47989 | 0.800 | 0.12 | |
| 4.823 | 99482 | 87722 | 0.882 | 0.21 | |
| 4.852 | 153010 | 136756 | 0.894 | 0.32 | |
| 4.898 | 408155 | 387301 | 0.949 | 0.87 | 6 Aroclor 1248 |
| 4.932 | 310710 | 291473 | 0.938 | 0.66 | |
| 4.979 | 1301471 | 763074 | 0.586 | 2.78 | 6 Aroclor 1248 |
| 5.043 | 348011 | 287769 | 0.827 | 0.74 | |
| 5.089 | 27927 | 25354 | 0.908 | 0.05 | |
| 5.125 | 287020 | 272056 | 0.948 | 0.61 | 6 Aroclor 1248 |
| 5.142 | 30410 | 44164 | 1.452 | 0.06 | |
| 5.186 | 725704 | 647330 | 0.892 | 1.55 | |
| 5.246 | 1067778 | 958144 | 0.897 | 2.28 | 7 Aroclor 1254 |
| 5.300 | 1039294 | 829383 | 0.798 | 2.22 | |
| 5.368 | 126959 | 112952 | 0.890 | 0.27 | |
| 5.401 | 564940 | 520417 | 0.921 | 1.20 | |
| 5.449 | 250038 | 225747 | 0.903 | 0.53 | |
| 5.493 | 638223 | 578539 | 0.906 | 1.36 | 7 Aroclor 1254 |
| 5.537 | 1137931 | 1053154 | 0.925 | 2.43 | |
| 5.567 | 101721 | 101970 | 1.002 | 0.21 | |
| 5.596 | 1340225 | 1194721 | 0.891 | 2.86 | 7 Aroclor 1254 |
| 5.663 | 61076 | 54228 | 0.888 | 0.13 | |
| 5.692 | 140958 | 116964 | 0.830 | 0.30 | |
| 5.761 | 419246 | 391922 | 0.935 | 0.89 | |
| 5.797 | 221533 | 164471 | 0.742 | 0.47 | |
| 5.829 | 275660 | 188835 | 0.685 | 0.58 | |
| 5.875 | 1634419 | 1362360 | 0.834 | 3.49 | |
| 5.909 | 262165 | 215263 | 0.821 | 0.56 | |
| 5.974 | 124391 | 117621 | 0.946 | 0.26 | |
| 5.990 | 178327 | 157306 | 0.882 | 0.38 | |
| 6.017 | 117569 | 103597 | 0.881 | 0.25 | |
| 6.054 | 32268 | 36593 | 1.134 | 0.06 | |
| 6.080 | 395625 | 372647 | 0.942 | 0.84 | |
| 6.115 | 683132 | 593006 | 0.868 | 1.46 | 7 Aroclor 1254 |
| 6.141 | 1588924 | 1375106 | 0.865 | 3.39 | |
| 6.255 | 345481 | 217894 | 0.631 | 0.73 | |
| 6.315 | 113392 | 123813 | 1.092 | 0.24 | |
| 6.332 | 258673 | 201641 | 0.780 | 0.55 | |
| 6.386 | 1974685 | 1661007 | 0.841 | 4.22 | 7 Aroclor 1254 |
| 6.421 | 223814 | 206487 | 0.923 | 0.47 | |
| 6.461 | 81012 | 60597 | 0.748 | 0.17 | |
| 6.518 | 211941 | 161687 | 0.763 | 0.45 | |
| 6.573 | 27383 | 29052 | 1.061 | 0.05 | |
| 6.597 | 733308 | 682902 | 0.931 | 1.56 | |
| 6.624 | 377959 | 346185 | 0.916 | 0.80 | |
| 6.646 | 247921 | 231551 | 0.934 | 0.52 | |
| 6.691 | 51358 | 48442 | 0.943 | 0.10 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.747 | 28903 | 23589 | 0.816 | 0.06 | |
| 6.805 | 330899 | 280432 | 0.847 | 0.70 | |
| 6.845 | 299165 | 253299 | 0.847 | 0.63 | |
| 6.888 | 273560 | 234798 | 0.858 | 0.58 | |
| 6.926 | 171539 | 116821 | 0.681 | 0.36 | |
| 7.000 | 44057 | 34966 | 0.794 | 0.09 | |
| 7.030 | 748080 | 705911 | 0.944 | 1.59 | |
| 7.091 | 898061 | 833634 | 0.928 | 1.91 | 8 Aroclor 1260 |
| 7.121 | 113876 | 83144 | 0.730 | 0.24 | |
| 7.168 | 29298 | 31917 | 1.089 | 0.06 | |
| 7.186 | 46130 | 36949 | 0.801 | 0.09 | |
| 7.209 | 57832 | 38969 | 0.674 | 0.12 | |
| 7.267 | 14575 | 10263 | 0.704 | 0.03 | |
| 7.338 | 416379 | 369901 | 0.888 | 0.89 | 8 Aroclor 1260 |
| 7.369 | 128632 | 87019 | 0.676 | 0.27 | |
| 7.422 | 57801 | 38487 | 0.666 | 0.12 | |
| 7.476 | 319228 | 286015 | 0.896 | 0.68 | |
| 7.530 | 277253 | 202843 | 0.732 | 0.59 | 8 Aroclor 1260 |
| 7.666 | 14069 | 15730 | 1.118 | 0.03 | |
| 7.699 | 6142 | 12224 | 1.990 | 0.01 | |
| 7.715 | 26781 | 20726 | 0.774 | 0.05 | |
| 7.748 | 16210 | 19862 | 1.225 | 0.03 | |
| 7.779 | 92616 | 88682 | 0.958 | 0.19 | |
| 7.816 | 117421 | 93477 | 0.796 | 0.25 | |
| 7.850 | 51802 | 34152 | 0.659 | 0.11 | |
| 7.899 | 209724 | 163675 | 0.780 | 0.44 | |
| 7.954 | 29236 | 28896 | 0.988 | 0.06 | |
| 7.987 | 261966 | 205448 | 0.784 | 0.55 | 8 Aroclor 1260 |
| 8.043 | 53600 | 28620 | 0.534 | 0.11 | |
| 8.090 | 10647 | 8718 | 0.819 | 0.02 | |
| 8.136 | 540650 | 492723 | 0.911 | 1.15 | |
| 8.361 | 205178 | 187322 | 0.913 | 0.43 | |
| 8.463 | 10958 | 9258 | 0.845 | 0.02 | |
| 8.659 | 5844819 | 5165456 | 0.884 | 13.05 | $ 12 Decachlorobiphenyl |
| 8.812 | 100441 | 70104 | 0.698 | 0.21 | |
| 8.997 | 19204 | 17634 | 0.918 | 0.04 | |
| 9.141 | 62347 | 54900 | 0.881 | 0.13 | |
| 9.255 | 54517 | 51791 | 0.950 | 0.11 | |
| 9.522 | 19756 | 17120 | 0.867 | 0.04 | |
| 9.566 | 18667 | 14139 | 0.757 | 0.03 | |
| | 46782678 | 41689979 | | 100.000 | |

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718094.D
Lab Smp Id: 40158029012 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 18:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029012 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 94
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 9.983 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 2.474 | 2.471 | 0.003 | 201191 | 0.38163 | 380 | 0.00- 20.00 | 0.00 | BA |
| 2.756 | 2.758 | -0.002 | 15514 | 0.01119 | 11 | 0.00- 20.00 | 0.00 | BA |
| 2.857 | 2.860 | -0.003 | 34641 | 0.03139 | 31 | 0.00- 20.00 | 0.00 | BA |
| 2.924 | 2.923 | 0.001 | 88051 | 0.02634 | 26 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 110 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5466755 | 0.04539 | 45 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.345 | 4.343 | 0.002 | 1043082 | 0.43729 | 440 | 0.00- 20.00 | 100.00(M) | CO |
| 4.630 | 4.630 | 0.000 | 879926 | 0.20717 | 210 | 0.00- 20.00 | 84.36 | CO |
| 4.897 | 4.898 | -0.001 | 408154 | 0.20037 | 200 | 0.00- 20.00 | 39.13 | CO |
| 4.979 | 4.963 | 0.016 | 1301471 | 0.23761 | 240 | 0.00- 20.00 | 124.77 | CO |
| 5.124 | 5.123 | 0.001 | 287020 | 0.07587 | 76 | 0.00- 20.00 | 27.52 | CO |
| Average of Peak Concentrations = | | | | | 230 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1067777 | 0.18933 | 190 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 638223 | 0.13685 | 140 | 0.00- 20.00 | 59.77 | BA |
| 5.595 | 5.596 | -0.001 | 1340224 | 0.15653 | 160 | 0.00- 20.00 | 125.52 | BA |
| 6.114 | 6.113 | 0.001 | 683132 | 0.12858 | 130 | 0.00- 20.00 | 63.98 | BA |
| 6.386 | 6.387 | -0.001 | 1974685 | 0.26973 | 270 | 0.00- 20.00 | 184.93 | BA |
| Average of Peak Concentrations = | | | | | 180 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 898060 | 0.07631 | 76 | 0.00- 20.00 | 45.48 | BA |
| 7.337 | 7.338 | -0.001 | 416379 | 0.07361 | 74 | 0.00- 20.00 | 21.09 | BA |
| 7.529 | 7.529 | 0.000 | 277253 | 0.08110 | 81 | 0.00- 20.00 | 14.04 | BA |
| 7.986 | 7.987 | -0.001 | 261965 | 0.08271 | 83 | 0.00- 20.00 | 13.27 | BA |
| Average of Peak Concentrations = | | | | | 78 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.658 | 8.657 | 0.001 | 5844818 | 0.04388 | 44 | | | |

QC Flag Legend

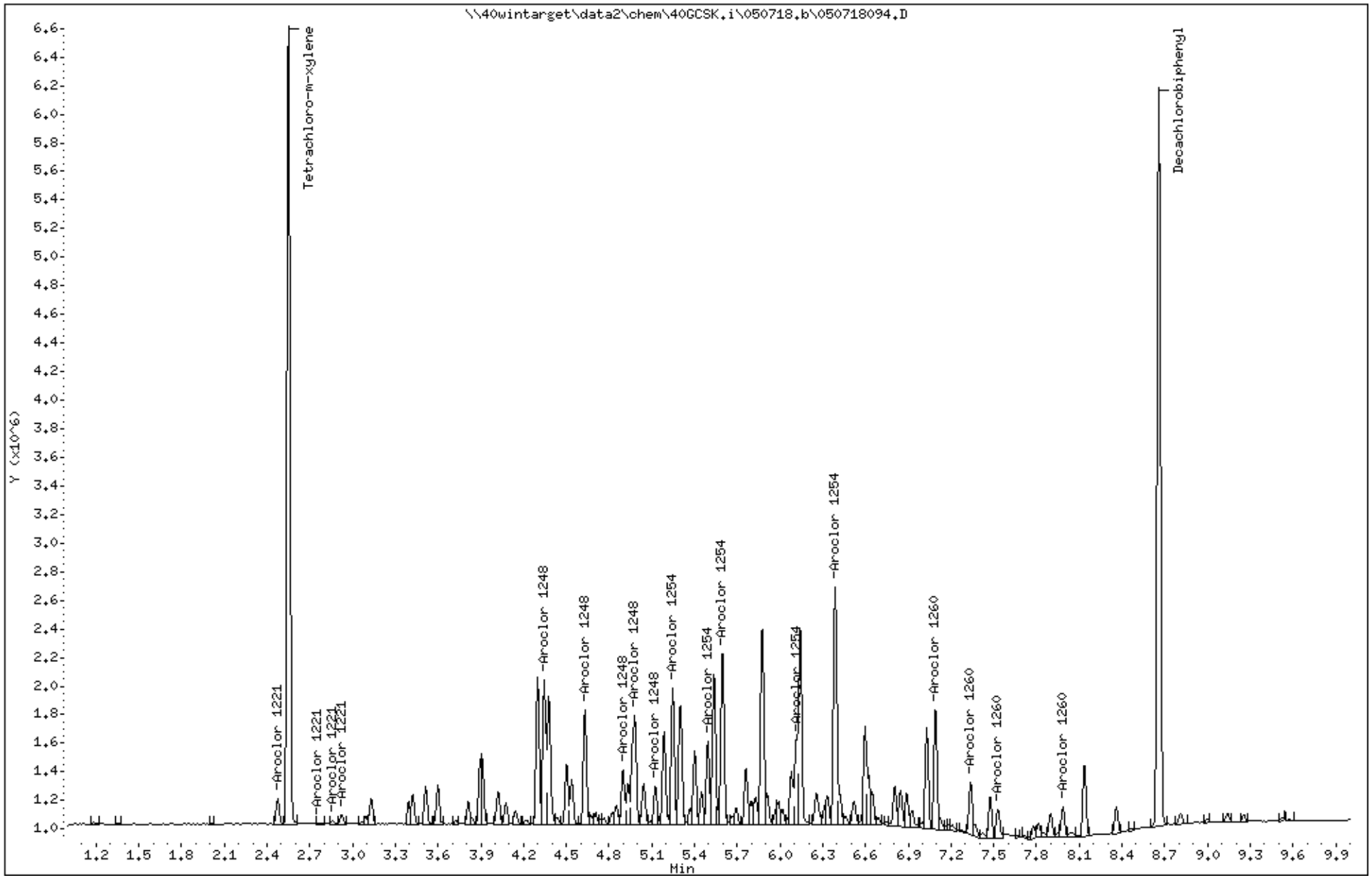
M - Compound response manually integrated.

Review Codes Legend

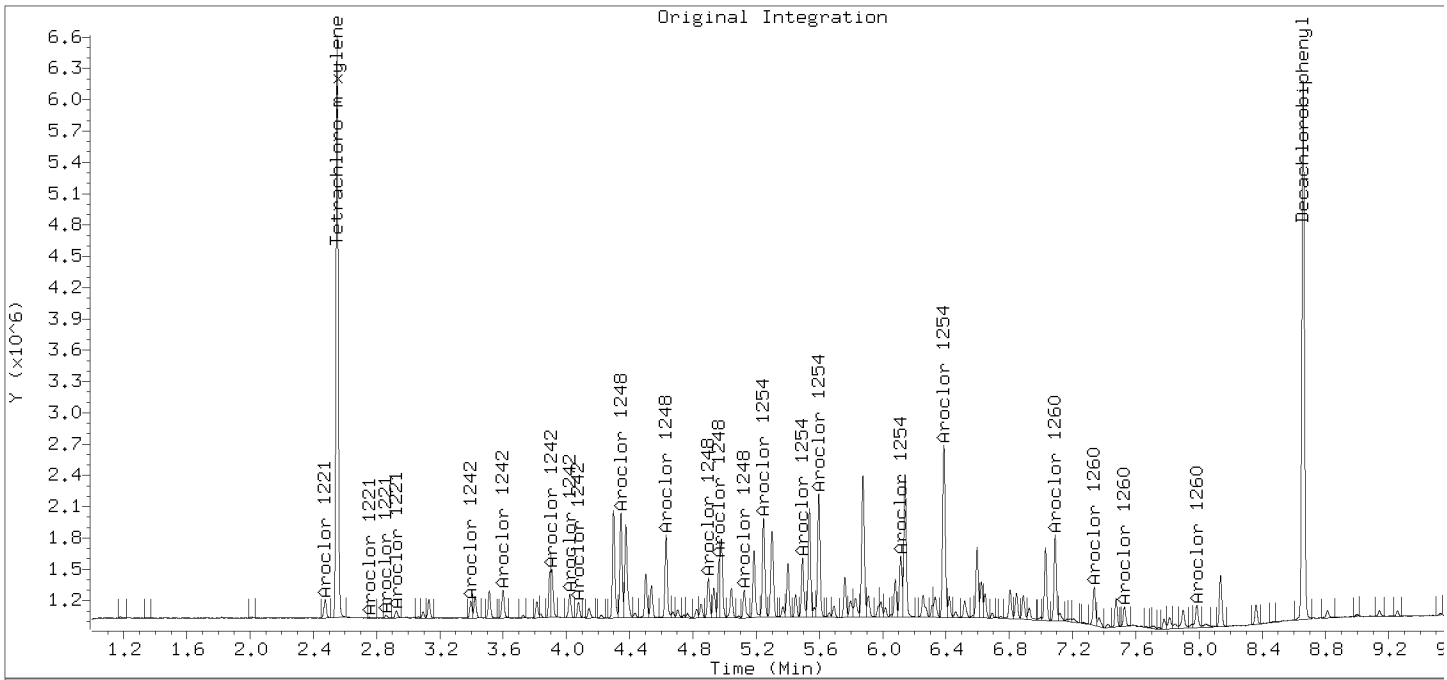
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

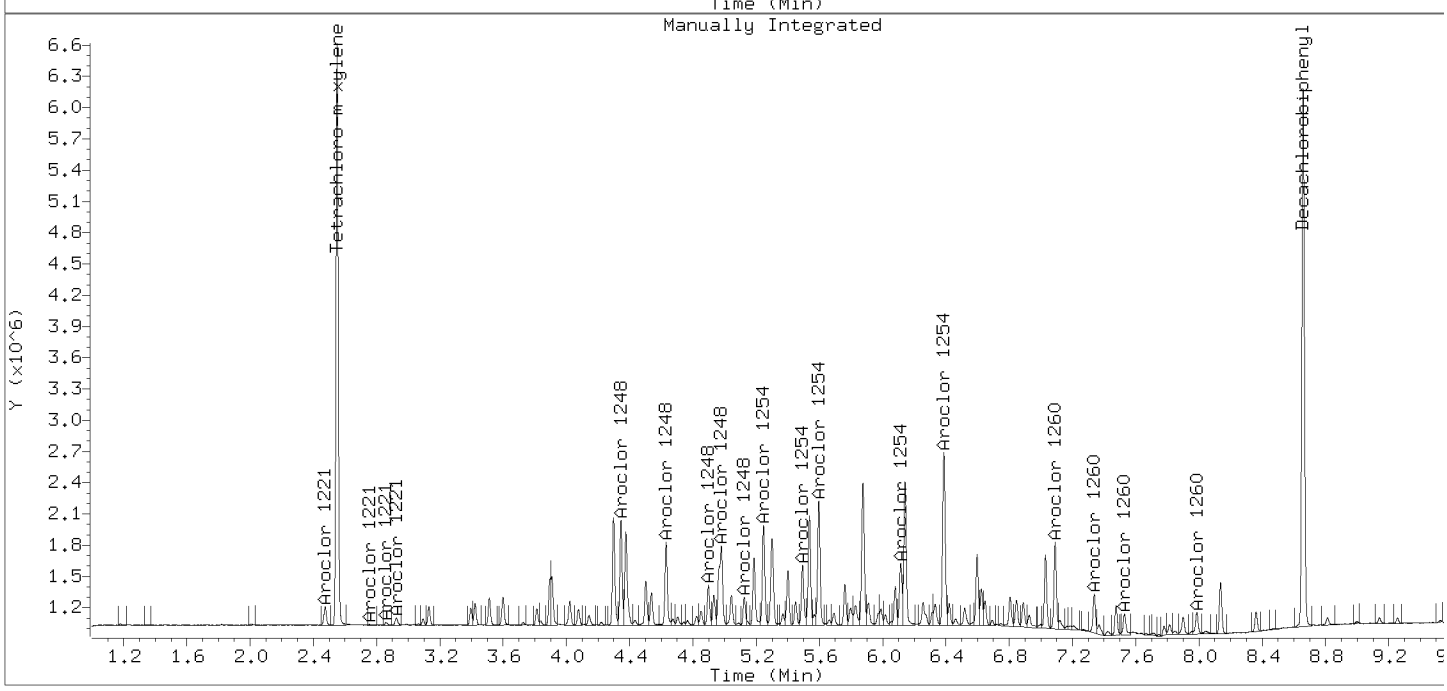
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718094.D
Date : 08-MAY-2018 18:50
Client ID: AT1-170830-01-MIN-0
Sample Info: 40158029012 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718094.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 18:50 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029012




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 165246 | 0 | |
| Aroclor 1016 | 165246 | 0 | |
| Aroclor 1016 | 165246 | 0 | |
| Aroclor 1016 | 165246 | 0 | |
| Aroclor 1016 | 165246 | 0 | |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1232 | 79473 | 0 | |
| Aroclor 1232 | 79473 | 0 | |
| Aroclor 1232 | 79473 | 0 | |
| Aroclor 1232 | 79473 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 79473 | 0 | |
| Aroclor 1242 | 165246 | 0 | |
| Aroclor 1242 | 165246 | 0 | |
| Aroclor 1242 | 165246 | 0 | |
| Aroclor 1242 | 165246 | 0 | |
| Aroclor 1242 | 165246 | 0 | |
| Aroclor 1248 | 1032086 | 1043082 | CO |
| Aroclor 1248 | 1032086 | 1043082 | CO |
| Aroclor 1248 | 1032086 | 1043082 | CO |
| Aroclor 1248 | 1032086 | 1043082 | CO |
| Aroclor 1248 | 1032086 | 1043082 | CO |
| Aroclor 1254 | 1033909 | 1067777 | BA |
| Aroclor 1254 | 1033909 | 1067777 | BA |
| Aroclor 1254 | 1033909 | 1067777 | BA |
| Aroclor 1254 | 1033909 | 1067777 | BA |
| Aroclor 1254 | 1033909 | 1067777 | BA |
| Aroclor 1260 | 1951823 | 0 | BA |
| Aroclor 1260 | 1951823 | 0 | BA |
| Aroclor 1260 | 1951823 | 0 | BA |
| Aroclor 1260 | 1951823 | 0 | BA |
| Aroclor 1260 | 1951823 | 0 | BA |
| Tetrachloro-m-xylene | 5434920 | 5466755 | BA |
| Decachlorobiphenyl | 5844818 | 5844818 | |

==========

SAMPLE NO.

AT1-170830-01-MIN-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158029013
Date Analyzed: 05/08/2018 19:21
Lab File ID: 050718.B\050718096.D
Initial wt/vol: 10.0044 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <22.8 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 267 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 214 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 90.2 | J |
| 1336-36-3 | PCB, Total | 571 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718096.D
Lab Smp Id: 40158029013 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029013 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 96
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.004 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.051 | 24866 | 12796 | 0.515 | 0.04 | | |
| 1.821 | 9916 | 10890 | 1.098 | 0.01 | | |
| 2.474 | 160643 | 139825 | 0.870 | 0.31 | | |
| 2.550 | 5398272 | 5496464 | 1.018 | 10.54 | $ 2 Tetrachloro-m-xylene | |
| 2.861 | 26228 | 22500 | 0.858 | 0.05 | | |
| 2.925 | 76051 | 60561 | 0.796 | 0.14 | | |
| 3.095 | 48702 | 52458 | 1.077 | 0.09 | | |
| 3.131 | 153279 | 151731 | 0.990 | 0.29 | | |
| 3.394 | 136184 | 135159 | 0.992 | 0.26 | | |
| 3.423 | 169201 | 163122 | 0.964 | 0.33 | | |
| 3.513 | 239055 | 230680 | 0.965 | 0.46 | | |
| 3.598 | 270639 | 248350 | 0.918 | 0.52 | | |
| 3.727 | 30464 | 25114 | 0.824 | 0.05 | | |
| 3.812 | 190535 | 145169 | 0.762 | 0.37 | | |
| 3.895 | 378390 | 438353 | 1.158 | 0.73 | | |
| 3.907 | 492347 | 438627 | 0.891 | 0.96 | | |
| 4.021 | 275244 | 241439 | 0.877 | 0.53 | | |
| 4.077 | 182420 | 161855 | 0.887 | 0.35 | | |
| 4.143 | 117241 | 90514 | 0.772 | 0.22 | | |
| 4.220 | 37342 | 27802 | 0.745 | 0.07 | | |
| 4.297 | 1253129 | 1154560 | 0.921 | 2.44 | | |
| 4.344 | 1203576 | 1157194 | 0.961 | 2.35 | 6 Aroclor 1248 | CO |
| 4.375 | 1231784 | 1040390 | 0.845 | 2.40 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.433 | 47740 | 36259 | 0.760 | 0.09 | |
| 4.502 | 452683 | 432660 | 0.956 | 0.88 | |
| 4.537 | 360725 | 330348 | 0.916 | 0.70 | |
| 4.630 | 956641 | 878464 | 0.918 | 1.86 | 6 Aroclor 1248 |
| 4.673 | 86561 | 72590 | 0.839 | 0.16 | |
| 4.704 | 78896 | 72554 | 0.920 | 0.15 | |
| 4.765 | 68031 | 57668 | 0.848 | 0.13 | |
| 4.823 | 104295 | 97089 | 0.931 | 0.20 | |
| 4.853 | 150812 | 143199 | 0.950 | 0.29 | |
| 4.898 | 488493 | 470378 | 0.963 | 0.95 | 6 Aroclor 1248 |
| 4.932 | 340963 | 320706 | 0.941 | 0.66 | |
| 4.979 | 1561002 | 895756 | 0.574 | 3.04 | 6 Aroclor 1248 |
| 5.042 | 400459 | 345315 | 0.862 | 0.78 | |
| 5.089 | 24256 | 19793 | 0.816 | 0.04 | |
| 5.124 | 299106 | 279141 | 0.933 | 0.58 | 6 Aroclor 1248 |
| 5.143 | 26803 | 41519 | 1.549 | 0.05 | |
| 5.186 | 798264 | 715677 | 0.897 | 1.55 | |
| 5.246 | 1282788 | 1136344 | 0.886 | 2.50 | 7 Aroclor 1254 |
| 5.299 | 1178630 | 939131 | 0.797 | 2.30 | |
| 5.369 | 140195 | 127658 | 0.911 | 0.27 | |
| 5.400 | 548564 | 489221 | 0.892 | 1.07 | |
| 5.448 | 228352 | 215470 | 0.944 | 0.44 | |
| 5.493 | 763281 | 686843 | 0.900 | 1.49 | 7 Aroclor 1254 |
| 5.536 | 1224177 | 1115624 | 0.911 | 2.39 | |
| 5.566 | 121203 | 126246 | 1.042 | 0.23 | |
| 5.596 | 1624400 | 1459363 | 0.898 | 3.17 | 7 Aroclor 1254 |
| 5.662 | 77541 | 68151 | 0.879 | 0.15 | |
| 5.691 | 149020 | 126678 | 0.850 | 0.29 | |
| 5.760 | 526414 | 501606 | 0.953 | 1.02 | |
| 5.795 | 259574 | 195261 | 0.752 | 0.50 | |
| 5.828 | 335412 | 233783 | 0.697 | 0.65 | |
| 5.874 | 2026890 | 1678595 | 0.828 | 3.95 | |
| 5.908 | 234315 | 194395 | 0.830 | 0.45 | |
| 5.972 | 126464 | 129328 | 1.023 | 0.24 | |
| 5.987 | 190390 | 154047 | 0.809 | 0.37 | |
| 6.015 | 142702 | 127071 | 0.890 | 0.27 | |
| 6.053 | 23270 | 28371 | 1.219 | 0.04 | |
| 6.079 | 509438 | 485174 | 0.952 | 0.99 | |
| 6.113 | 827576 | 751630 | 0.908 | 1.61 | 7 Aroclor 1254 |
| 6.141 | 1993393 | 1716078 | 0.861 | 3.89 | |
| 6.254 | 410184 | 261611 | 0.638 | 0.80 | |
| 6.313 | 130198 | 151302 | 1.162 | 0.25 | |
| 6.332 | 369748 | 282641 | 0.764 | 0.72 | |
| 6.386 | 2454986 | 2105714 | 0.858 | 4.79 | 7 Aroclor 1254 |
| 6.420 | 268139 | 245931 | 0.917 | 0.52 | |
| 6.461 | 79143 | 64604 | 0.816 | 0.15 | |
| 6.518 | 254876 | 202650 | 0.795 | 0.49 | |
| 6.596 | 976189 | 881567 | 0.903 | 1.90 | |
| 6.624 | 449300 | 430111 | 0.957 | 0.87 | |
| 6.646 | 309125 | 284901 | 0.922 | 0.60 | |
| 6.691 | 80325 | 69905 | 0.870 | 0.15 | |
| 6.745 | 21308 | 19195 | 0.901 | 0.04 | |
| 6.805 | 363160 | 325494 | 0.896 | 0.70 | |
| 6.846 | 318207 | 280774 | 0.882 | 0.62 | |
| 6.888 | 318075 | 281887 | 0.886 | 0.62 | |
| 6.927 | 174833 | 136201 | 0.779 | 0.34 | |
| 6.996 | 44779 | 35414 | 0.791 | 0.08 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.029 | 788534 | 742056 | 0.941 | 1.54 | |
| 7.090 | 1094715 | 988403 | 0.903 | 2.13 | 8 Aroclor 1260 |
| 7.122 | 139634 | 103579 | 0.742 | 0.27 | |
| 7.165 | 33937 | 36794 | 1.084 | 0.06 | |
| 7.186 | 51149 | 38134 | 0.746 | 0.09 | |
| 7.207 | 59512 | 41255 | 0.693 | 0.11 | |
| 7.337 | 525601 | 485333 | 0.923 | 1.02 | 8 Aroclor 1260 |
| 7.367 | 133050 | 93286 | 0.701 | 0.25 | |
| 7.423 | 54928 | 37114 | 0.676 | 0.10 | |
| 7.475 | 410061 | 344497 | 0.840 | 0.80 | |
| 7.529 | 295223 | 235078 | 0.796 | 0.57 | 8 Aroclor 1260 |
| 7.578 | 56734 | 26897 | 0.474 | 0.11 | |
| 7.636 | 17263 | 13645 | 0.790 | 0.03 | |
| 7.667 | 15280 | 15156 | 0.992 | 0.02 | |
| 7.777 | 116407 | 104826 | 0.901 | 0.22 | |
| 7.814 | 117016 | 100240 | 0.857 | 0.22 | |
| 7.848 | 43317 | 32548 | 0.751 | 0.08 | |
| 7.900 | 219437 | 178677 | 0.814 | 0.42 | |
| 7.958 | 19429 | 20270 | 1.043 | 0.03 | |
| 7.987 | 280957 | 236622 | 0.842 | 0.54 | 8 Aroclor 1260 |
| 8.041 | 46880 | 28720 | 0.613 | 0.09 | |
| 8.136 | 541777 | 503146 | 0.929 | 1.05 | |
| 8.360 | 219457 | 201943 | 0.920 | 0.42 | |
| 8.537 | 12588 | 11416 | 0.907 | 0.02 | |
| 8.657 | 5710799 | 5061270 | 0.886 | 11.74 | $ 12 Decachlorobiphenyl |
| 8.812 | 89491 | 73678 | 0.823 | 0.17 | |
| 9.000 | 29058 | 19647 | 0.676 | 0.05 | |
| 9.140 | 66186 | 56711 | 0.857 | 0.12 | |
| 9.254 | 66960 | 59529 | 0.889 | 0.13 | |
| 9.528 | 35634 | 24329 | 0.683 | 0.06 | |
| | 51198814 | 45515438 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718096.D
Lab Smp Id: 40158029013 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029013 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 96
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.004 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 5398272 | 0.04482 | 45 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1203575 | 0.50457 | 500 | 0.00- 20.00 | 100.00(M) | CO |
| 4.629 | 4.630 | -0.001 | 956640 | 0.22523 | 220 | 0.00- 20.00 | 79.48 | CO |
| 4.898 | 4.898 | 0.000 | 488493 | 0.23981 | 240 | 0.00- 20.00 | 40.59 | CO |
| 4.979 | 4.963 | 0.016 | 1561001 | 0.28499 | 280 | 0.00- 20.00 | 129.70 | CO |
| 5.123 | 5.123 | 0.000 | 299106 | 0.07906 | 79 | 0.00- 20.00 | 24.85 | CO |
| Average of Peak Concentrations = | | | | | 270 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1282787 | 0.22746 | 230 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 763281 | 0.16366 | 160 | 0.00- 20.00 | 59.50 | BA |
| 5.596 | 5.596 | 0.000 | 1624399 | 0.18972 | 190 | 0.00- 20.00 | 126.63 | BA |
| 6.113 | 6.113 | 0.000 | 827575 | 0.15577 | 160 | 0.00- 20.00 | 64.51 | BA |
| 6.386 | 6.387 | -0.001 | 2454986 | 0.33533 | 340 | 0.00- 20.00 | 191.38 | BA |
| Average of Peak Concentrations = | | | | | 210 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 1094714 | 0.09301 | 93 | 0.00- 20.00 | 44.59 | BA |
| 7.337 | 7.338 | -0.001 | 525601 | 0.09292 | 93 | 0.00- 20.00 | 21.41 | BA |
| 7.528 | 7.529 | -0.001 | 295222 | 0.08635 | 86 | 0.00- 20.00 | 12.03 | BA |
| 7.986 | 7.987 | -0.001 | 280957 | 0.08871 | 89 | 0.00- 20.00 | 11.44 | BA |
| Average of Peak Concentrations = | | | | | 90 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 5710798 | 0.04288 | 43 | | | |

QC Flag Legend

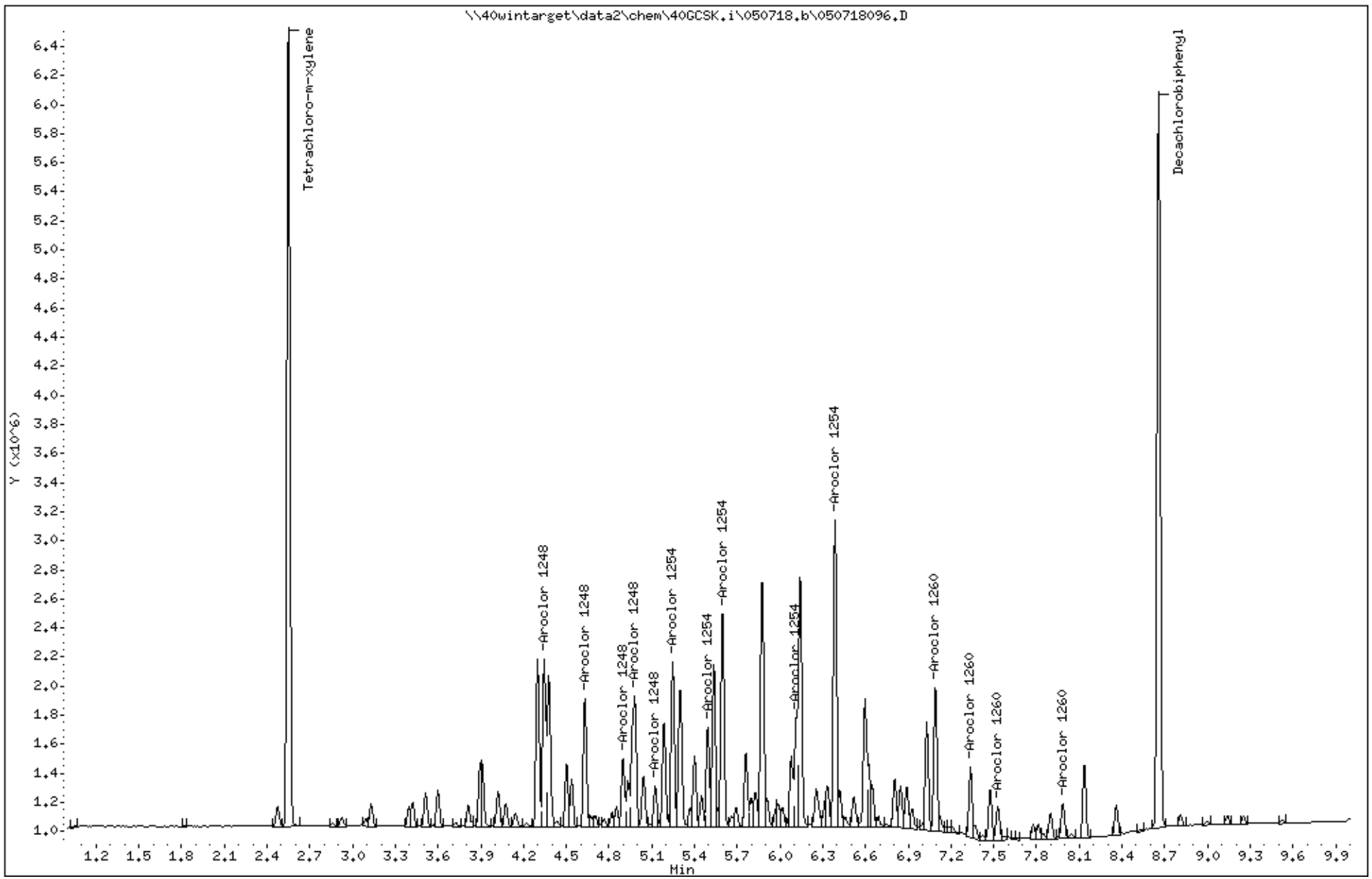
M - Compound response manually integrated.

Review Codes Legend

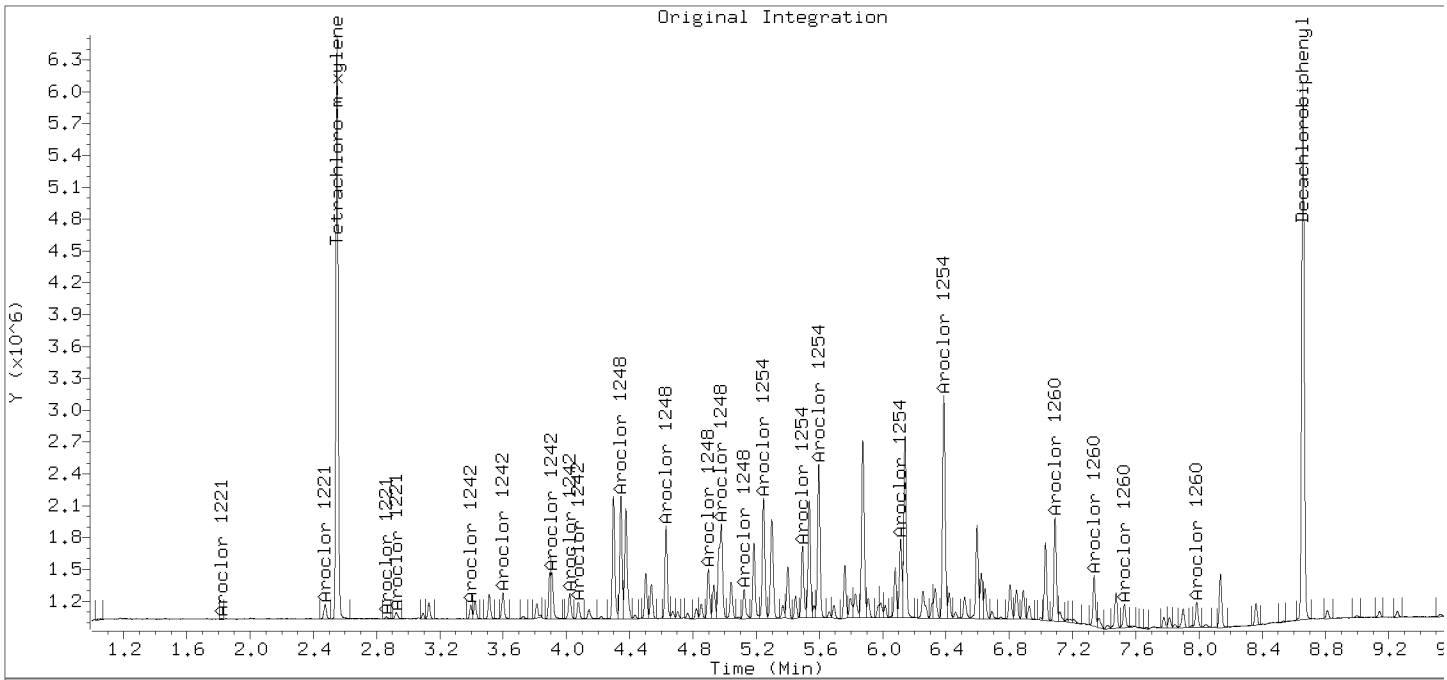
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

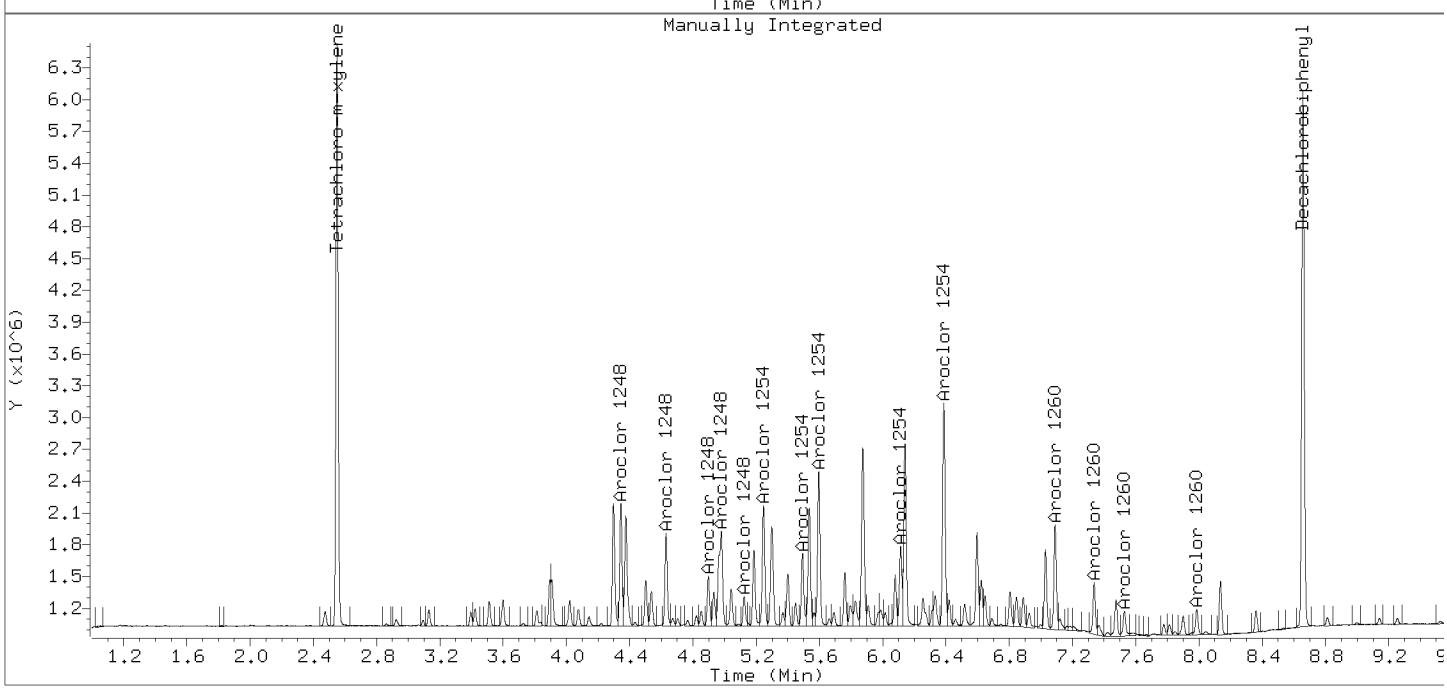
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718096.D
Date : 08-MAY-2018 19:21
Client ID: AT1-170830-01-MIN-0
Sample Info: 40158029013 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718096.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 19:21 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029013




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 136183 | 0 | |
| Aroclor 1016 | 136183 | 0 | |
| Aroclor 1016 | 136183 | 0 | |
| Aroclor 1016 | 136183 | 0 | |
| Aroclor 1016 | 136183 | 0 | |
| Aroclor 1221 | 9916 | 0 | |
| Aroclor 1221 | 9916 | 0 | |
| Aroclor 1221 | 9916 | 0 | |
| Aroclor 1221 | 9916 | 0 | |
| Aroclor 1221 | 9916 | 0 | |
| Aroclor 1232 | 76050 | 0 | |
| Aroclor 1232 | 76050 | 0 | |
| Aroclor 1232 | 76050 | 0 | |
| Aroclor 1232 | 76050 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 76050 | 0 | |
| Aroclor 1242 | 136183 | 0 | |
| Aroclor 1242 | 136183 | 0 | |
| Aroclor 1242 | 136183 | 0 | |
| Aroclor 1242 | 136183 | 0 | |
| Aroclor 1242 | 136183 | 0 | |
| Aroclor 1248 | 1192745 | 1203575 | CO |
| Aroclor 1248 | 1192745 | 1203575 | CO |
| Aroclor 1248 | 1192745 | 1203575 | CO |
| Aroclor 1248 | 1192745 | 1203575 | CO |
| Aroclor 1248 | 1192745 | 1203575 | CO |
| Aroclor 1254 | 1253504 | 1282787 | BA |
| Aroclor 1254 | 1253504 | 1282787 | BA |
| Aroclor 1254 | 1253504 | 1282787 | BA |
| Aroclor 1254 | 1253504 | 1282787 | BA |
| Aroclor 1254 | 1253504 | 1282787 | BA |
| Aroclor 1260 | 2437369 | 0 | BA |
| Aroclor 1260 | 2437369 | 0 | BA |
| Aroclor 1260 | 2437369 | 0 | BA |
| Aroclor 1260 | 2437369 | 0 | BA |
| Aroclor 1260 | 2437369 | 0 | BA |
| Tetrachloro-m-xylene | 5398272 | 5398272 | |
| Decachlorobiphenyl | 5710798 | 5710798 | |

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SAMPLE NO.

AT1-170830-01-MIN-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158029014
Date Analyzed: 05/08/2018 19:37
Lab File ID: 050718.B\050718097.D
Initial wt/vol: 10.0008 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <22.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <22.8 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <22.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <22.8 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 282 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 231 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 93.2 | J |
| 1336-36-3 | PCB, Total | 606 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718097.D
Lab Smp Id: 40158029014 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029014 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 97
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.001 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.042 | 10153 | 9068 | 0.893 | 0.01 | | |
| 1.180 | 11588 | 12306 | 1.062 | 0.02 | | |
| 1.229 | 10807 | 10327 | 0.956 | 0.02 | | |
| 1.462 | 11576 | 9320 | 0.805 | 0.02 | | |
| 1.821 | 9655 | 11359 | 1.176 | 0.01 | | |
| 2.112 | 10856 | 7465 | 0.688 | 0.02 | | |
| 2.475 | 193755 | 170417 | 0.880 | 0.36 | | |
| 2.550 | 5520910 | 5649335 | 1.023 | 10.25 | $ 2 Tetrachloro-m-xylene | |
| 2.859 | 28693 | 24469 | 0.853 | 0.05 | | |
| 2.925 | 83832 | 68567 | 0.818 | 0.15 | | |
| 2.965 | 9803 | 9951 | 1.015 | 0.01 | | |
| 3.064 | 14368 | 14302 | 0.995 | 0.02 | | |
| 3.094 | 48846 | 52943 | 1.084 | 0.09 | | |
| 3.131 | 178838 | 174722 | 0.977 | 0.33 | | |
| 3.396 | 160086 | 160362 | 1.002 | 0.29 | | |
| 3.423 | 210734 | 202126 | 0.959 | 0.39 | | |
| 3.513 | 275209 | 266297 | 0.968 | 0.51 | | |
| 3.599 | 284702 | 269577 | 0.947 | 0.52 | | |
| 3.725 | 34863 | 29377 | 0.843 | 0.06 | | |
| 3.813 | 197444 | 159807 | 0.809 | 0.36 | | |
| 3.895 | 381612 | 441684 | 1.157 | 0.70 | | |
| 3.908 | 486788 | 453820 | 0.932 | 0.90 | | |
| 4.021 | 306176 | 268805 | 0.878 | 0.56 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.076 | 180804 | 169448 | 0.937 | 0.33 | |
| 4.143 | 123766 | 108819 | 0.879 | 0.22 | |
| 4.220 | 31535 | 30596 | 0.970 | 0.05 | |
| 4.297 | 1337756 | 1219286 | 0.911 | 2.48 | |
| 4.344 | 1248331 | 1217492 | 0.975 | 2.31 | 6 Aroclor 1248 |
| 4.376 | 1259203 | 1057672 | 0.840 | 2.33 | |
| 4.433 | 46728 | 37325 | 0.799 | 0.08 | |
| 4.502 | 506769 | 486521 | 0.960 | 0.94 | |
| 4.536 | 397013 | 369103 | 0.930 | 0.73 | |
| 4.630 | 1049645 | 977163 | 0.931 | 1.95 | 6 Aroclor 1248 |
| 4.673 | 84469 | 73383 | 0.869 | 0.15 | |
| 4.703 | 94612 | 83065 | 0.878 | 0.17 | |
| 4.767 | 65483 | 56962 | 0.870 | 0.12 | |
| 4.822 | 110318 | 100102 | 0.907 | 0.20 | |
| 4.853 | 163610 | 152538 | 0.932 | 0.30 | |
| 4.897 | 502744 | 490231 | 0.975 | 0.93 | 6 Aroclor 1248 |
| 4.932 | 326013 | 314125 | 0.964 | 0.60 | |
| 4.979 | 1710891 | 1010283 | 0.591 | 3.17 | 6 Aroclor 1248 |
| 5.042 | 437562 | 389363 | 0.890 | 0.81 | |
| 5.089 | 20835 | 22449 | 1.077 | 0.03 | |
| 5.124 | 310651 | 299503 | 0.964 | 0.57 | 6 Aroclor 1248 |
| 5.142 | 26590 | 42790 | 1.609 | 0.04 | |
| 5.185 | 880857 | 792207 | 0.899 | 1.63 | |
| 5.247 | 1372456 | 1218480 | 0.888 | 2.55 | 7 Aroclor 1254 |
| 5.299 | 1220421 | 974293 | 0.798 | 2.26 | |
| 5.368 | 141839 | 135570 | 0.956 | 0.26 | |
| 5.400 | 623055 | 559457 | 0.898 | 1.15 | |
| 5.449 | 338152 | 305672 | 0.904 | 0.62 | |
| 5.493 | 835564 | 775793 | 0.928 | 1.55 | 7 Aroclor 1254 |
| 5.536 | 1408700 | 1266811 | 0.899 | 2.61 | |
| 5.565 | 134435 | 136909 | 1.018 | 0.24 | |
| 5.595 | 1817158 | 1646845 | 0.906 | 3.37 | 7 Aroclor 1254 |
| 5.661 | 80439 | 69755 | 0.867 | 0.14 | |
| 5.690 | 171854 | 147820 | 0.860 | 0.31 | |
| 5.761 | 556382 | 522728 | 0.940 | 1.03 | |
| 5.794 | 285147 | 216503 | 0.759 | 0.52 | |
| 5.827 | 338900 | 243014 | 0.717 | 0.62 | |
| 5.874 | 2138428 | 1758062 | 0.822 | 3.97 | |
| 5.908 | 240826 | 196989 | 0.818 | 0.44 | |
| 5.972 | 156327 | 148956 | 0.953 | 0.29 | |
| 5.988 | 179003 | 168308 | 0.940 | 0.33 | |
| 6.017 | 154528 | 131269 | 0.849 | 0.28 | |
| 6.053 | 23222 | 26355 | 1.135 | 0.04 | |
| 6.079 | 509256 | 469956 | 0.923 | 0.94 | |
| 6.113 | 920542 | 834131 | 0.906 | 1.71 | 7 Aroclor 1254 |
| 6.140 | 2015101 | 1694085 | 0.841 | 3.74 | |
| 6.254 | 411966 | 269099 | 0.653 | 0.76 | |
| 6.314 | 124481 | 160524 | 1.290 | 0.23 | |
| 6.330 | 341266 | 246148 | 0.721 | 0.63 | |
| 6.386 | 2537042 | 2139719 | 0.843 | 4.71 | 7 Aroclor 1254 |
| 6.419 | 282768 | 262166 | 0.927 | 0.52 | |
| 6.461 | 101252 | 80833 | 0.798 | 0.18 | |
| 6.518 | 262880 | 207075 | 0.788 | 0.48 | |
| 6.596 | 984893 | 885531 | 0.899 | 1.83 | |
| 6.624 | 479209 | 459565 | 0.959 | 0.89 | |
| 6.647 | 302451 | 280545 | 0.928 | 0.56 | |
| 6.690 | 70314 | 65323 | 0.929 | 0.13 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.747 | 25339 | 21646 | 0.854 | 0.04 | |
| 6.805 | 385183 | 350883 | 0.911 | 0.71 | |
| 6.845 | 337506 | 291391 | 0.863 | 0.62 | |
| 6.888 | 340306 | 299977 | 0.881 | 0.63 | |
| 6.926 | 188184 | 139959 | 0.744 | 0.34 | |
| 6.998 | 48335 | 39247 | 0.812 | 0.08 | |
| 7.029 | 760553 | 711694 | 0.936 | 1.41 | |
| 7.090 | 1105492 | 1004600 | 0.909 | 2.05 | 8 Aroclor 1260 |
| 7.120 | 139141 | 107086 | 0.770 | 0.25 | |
| 7.163 | 34933 | 33786 | 0.967 | 0.06 | |
| 7.185 | 45912 | 38615 | 0.841 | 0.08 | |
| 7.210 | 64252 | 41349 | 0.644 | 0.11 | |
| 7.337 | 521919 | 461937 | 0.885 | 0.96 | 8 Aroclor 1260 |
| 7.366 | 142143 | 98878 | 0.696 | 0.26 | |
| 7.422 | 59329 | 38967 | 0.657 | 0.11 | |
| 7.475 | 378138 | 329804 | 0.872 | 0.70 | |
| 7.528 | 323776 | 243434 | 0.752 | 0.60 | 8 Aroclor 1260 |
| 7.575 | 65099 | 27241 | 0.418 | 0.12 | |
| 7.633 | 20603 | 18568 | 0.901 | 0.03 | |
| 7.666 | 14271 | 14065 | 0.986 | 0.02 | |
| 7.706 | 35168 | 18766 | 0.534 | 0.06 | |
| 7.743 | 11003 | 12998 | 1.181 | 0.02 | |
| 7.778 | 115637 | 107701 | 0.931 | 0.21 | |
| 7.813 | 118762 | 97924 | 0.825 | 0.22 | |
| 7.847 | 39731 | 32220 | 0.811 | 0.07 | |
| 7.899 | 216580 | 176132 | 0.813 | 0.40 | |
| 7.952 | 27440 | 22972 | 0.837 | 0.05 | |
| 7.985 | 291152 | 245363 | 0.843 | 0.54 | 8 Aroclor 1260 |
| 8.044 | 48855 | 28249 | 0.578 | 0.09 | |
| 8.136 | 547847 | 514605 | 0.939 | 1.01 | |
| 8.360 | 211462 | 196829 | 0.931 | 0.39 | |
| 8.657 | 5840261 | 5077428 | 0.869 | 11.47 | $ 12 Decachlorobiphenyl |
| 8.717 | 21348 | 15204 | 0.712 | 0.03 | |
| 8.813 | 100913 | 79148 | 0.784 | 0.18 | |
| 8.936 | 26970 | 18920 | 0.702 | 0.05 | |
| 8.998 | 13900 | 10568 | 0.760 | 0.02 | |
| 9.140 | 67745 | 59306 | 0.875 | 0.12 | |
| 9.255 | 91324 | 62916 | 0.689 | 0.16 | |
| 9.526 | 12465 | 10757 | 0.863 | 0.02 | |
| 9.570 | 20202 | 13938 | 0.690 | 0.03 | |
| | 53816913 | 47796192 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718097.D
Lab Smp Id: 40158029014 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158029014 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 97
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.001 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 5520910 | 0.04584 | 46 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1248331 | 0.52333 | 520 | 0.00- 20.00 | 100.00(M) | CO |
| 4.630 | 4.630 | 0.000 | 1049645 | 0.24712 | 250 | 0.00- 20.00 | 84.08 | CO |
| 4.897 | 4.898 | -0.001 | 502743 | 0.24680 | 250 | 0.00- 20.00 | 40.27 | CO |
| 4.978 | 4.963 | 0.015 | 1710890 | 0.31235 | 310 | 0.00- 20.00 | 137.05 | CO |
| 5.123 | 5.123 | 0.000 | 310651 | 0.08211 | 82 | 0.00- 20.00 | 24.89 | CO |
| Average of Peak Concentrations = | | | | | 280 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1372456 | 0.24336 | 240 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 835563 | 0.17916 | 180 | 0.00- 20.00 | 60.88 | BA |
| 5.595 | 5.596 | -0.001 | 1817157 | 0.21224 | 210 | 0.00- 20.00 | 132.40 | BA |
| 6.113 | 6.113 | 0.000 | 920542 | 0.17327 | 170 | 0.00- 20.00 | 67.07 | BA |
| 6.386 | 6.387 | -0.001 | 2537042 | 0.34654 | 350 | 0.00- 20.00 | 184.85 | BA |
| Average of Peak Concentrations = | | | | | 230 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 7.089 | 7.090 | -0.001 | 1105492 | 0.09393 | 94 | 0.00- 20.00 | 43.57 | BA |
| 7.336 | 7.338 | -0.002 | 521919 | 0.09227 | 92 | 0.00- 20.00 | 20.57 | BA |
| 7.527 | 7.529 | -0.002 | 323775 | 0.09470 | 95 | 0.00- 20.00 | 12.76 | BA |
| 7.984 | 7.987 | -0.003 | 291152 | 0.09193 | 92 | 0.00- 20.00 | 11.48 | BA |
| Average of Peak Concentrations = | | | | | 93 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 5840261 | 0.04385 | 44 | | | |

QC Flag Legend

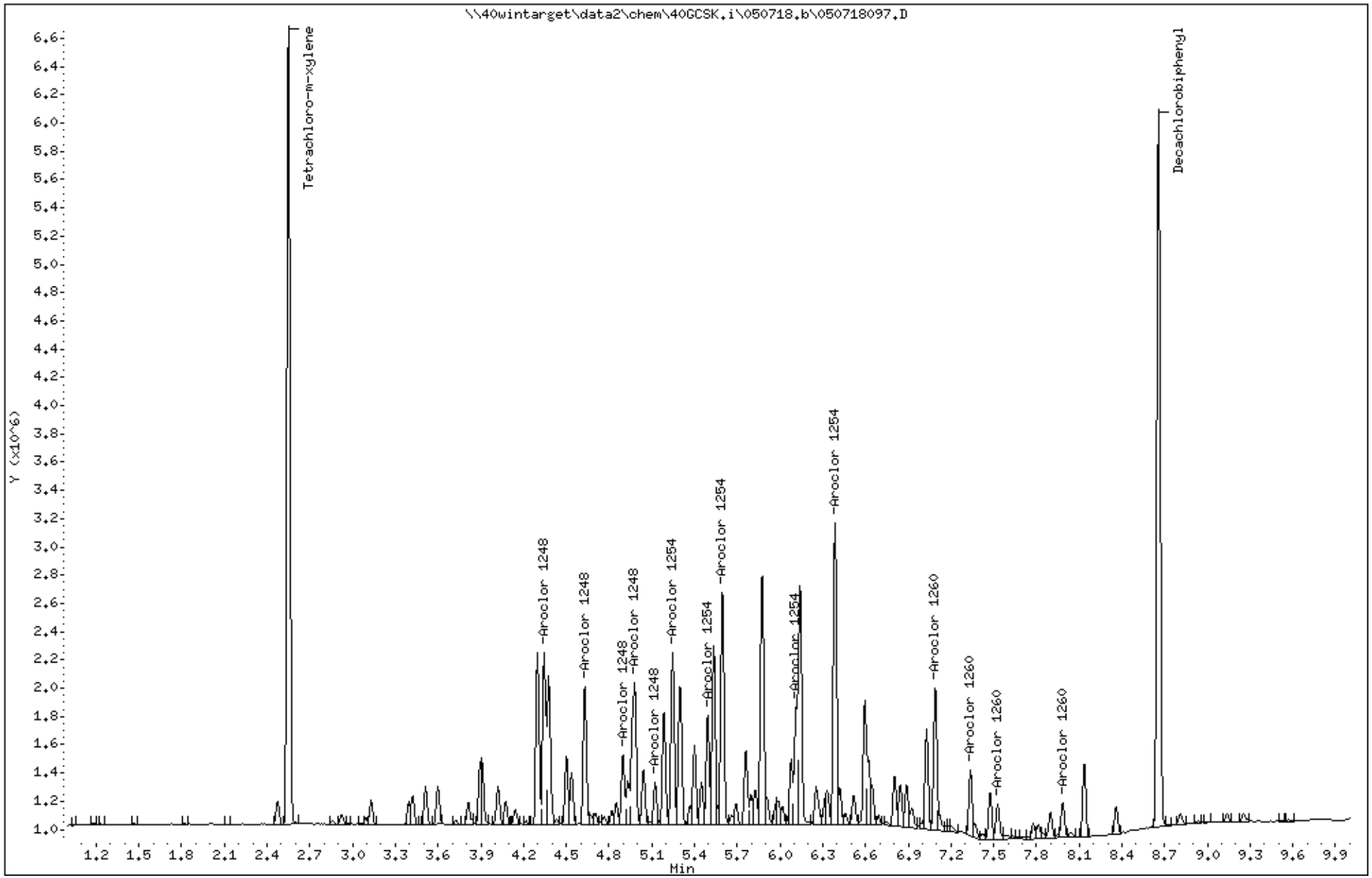
M - Compound response manually integrated.

Review Codes Legend

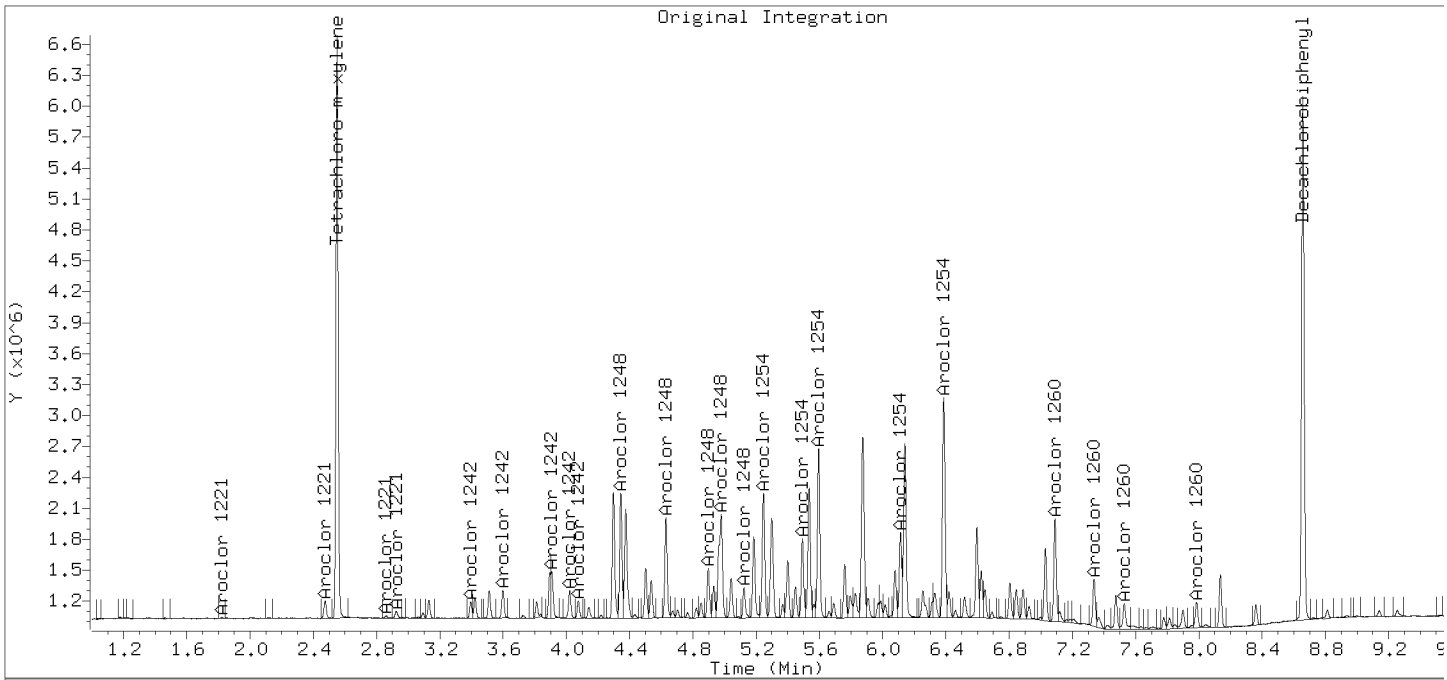
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

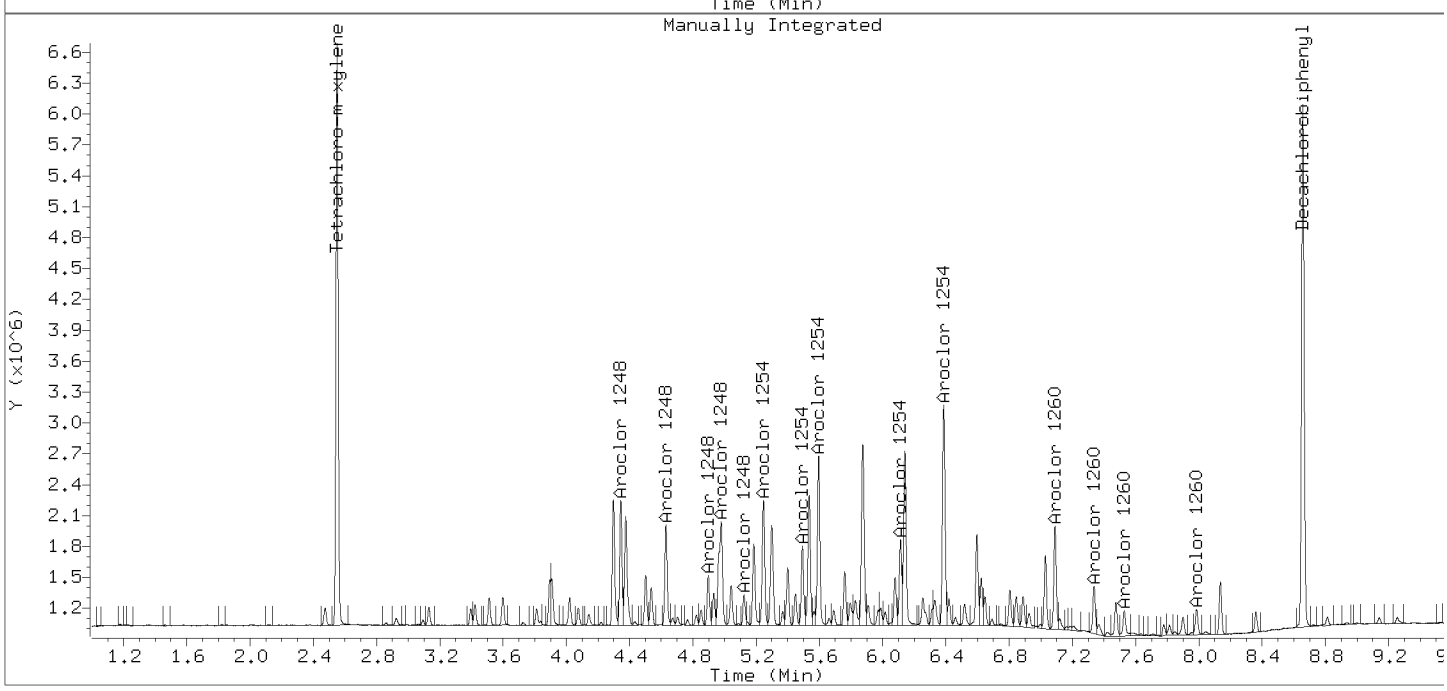
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718097.D
Date : 08-MAY-2018 19:37
Client ID: AT1-170830-01-MIN-0
Sample Info: 40158029014 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718097.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 19:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158029014




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 160086 | 0 | |
| Aroclor 1016 | 160086 | 0 | |
| Aroclor 1016 | 160086 | 0 | |
| Aroclor 1016 | 160086 | 0 | |
| Aroclor 1016 | 160086 | 0 | |
| Aroclor 1221 | 9655 | 0 | |
| Aroclor 1221 | 9655 | 0 | |
| Aroclor 1221 | 9655 | 0 | |
| Aroclor 1221 | 9655 | 0 | |
| Aroclor 1221 | 9655 | 0 | |
| Aroclor 1232 | 83831 | 0 | |
| Aroclor 1232 | 83831 | 0 | |
| Aroclor 1232 | 83831 | 0 | |
| Aroclor 1232 | 83831 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 83831 | 0 | |
| Aroclor 1242 | 160086 | 0 | |
| Aroclor 1242 | 160086 | 0 | |
| Aroclor 1242 | 160086 | 0 | |
| Aroclor 1242 | 160086 | 0 | |
| Aroclor 1242 | 160086 | 0 | |
| Aroclor 1248 | 1240119 | 1248331 | CO |
| Aroclor 1248 | 1240119 | 1248331 | CO |
| Aroclor 1248 | 1240119 | 1248331 | CO |
| Aroclor 1248 | 1240119 | 1248331 | CO |
| Aroclor 1248 | 1240119 | 1248331 | CO |
| Aroclor 1254 | 1352821 | 1372456 | BA |
| Aroclor 1254 | 1352821 | 1372456 | BA |
| Aroclor 1254 | 1352821 | 1372456 | BA |
| Aroclor 1254 | 1352821 | 1372456 | BA |
| Aroclor 1254 | 1352821 | 1372456 | BA |
| Aroclor 1260 | 2519225 | 0 | BA |
| Aroclor 1260 | 2519225 | 0 | BA |
| Aroclor 1260 | 2519225 | 0 | BA |
| Aroclor 1260 | 2519225 | 0 | BA |
| Aroclor 1260 | 2519225 | 0 | BA |
| Tetrachloro-m-xylene | 5520910 | 5520910 | |
| Decachlorobiphenyl | 5840261 | 5840261 | |

==========

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CURVE TYPE | CAL1 | CAL2 | CAL3 | CAL4 | CAL5 |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1 | Averaged | 3226830.00 | 3214890.00 | 3099390.00 | 2936223.75 | 2816368.00 |
| Aroclor 1016 | 2 | Averaged | 3426870.00 | 3282010.00 | 3196364.00 | 3025390.00 | 2923969.00 |
| Aroclor 1016 | 3 | Averaged | 9792050.00 | 9801085.00 | 9416772.00 | 9088905.00 | 8886004.00 |
| Aroclor 1016 | 4 | Averaged | 4283190.00 | 4182570.00 | 4056290.00 | 3840508.75 | 3741518.00 |
| Aroclor 1016 | 5 | Averaged | 2846930.00 | 2773990.00 | 2750986.00 | 2588326.25 | 2529476.00 |
| Aroclor 1221 | 1 | Averaged | 1072930.00 | 1056575.00 | 963810.000 | 945701.250 | 912984.000 |
| Aroclor 1221 | 2 | Averaged | 609940.000 | 541470.000 | 512828.000 | 492945.000 | 478736.000 |
| Aroclor 1221 | 3 | Averaged | 1451360.00 | 1429315.00 | 1349672.00 | 1372628.75 | 1331974.00 |
| Aroclor 1221 | 4 | Averaged | 1127220.00 | 1143945.00 | 1067226.00 | 1087150.00 | 1092035.00 |
| Aroclor 1221 | 5 | Averaged | 3524300.00 | 3517660.00 | 3282850.00 | 3232473.75 | 3158162.00 |
| Aroclor 1242 | 1 | Averaged | 2713170.00 | 2557185.00 | 2374006.00 | 2234975.00 | 2222470.00 |
| Aroclor 1242 | 2 | Averaged | 2798950.00 | 2528770.00 | 2413564.00 | 2291745.00 | 2273072.00 |
| Aroclor 1242 | 3 | Averaged | 7951690.00 | 7634755.00 | 7053656.00 | 6807721.25 | 6829835.00 |
| Aroclor 1242 | 4 | Averaged | 3482340.00 | 3295345.00 | 3030816.00 | 2902472.50 | 2870213.00 |
| Aroclor 1242 | 5 | Averaged | 2436090.00 | 2121480.00 | 2023398.00 | 1945076.25 | 1940441.00 |
| Aroclor 1248 | 1 | Averaged | 2456240.00 | 2537550.00 | 2411430.00 | 2248226.25 | 2273295.00 |
| Aroclor 1248 | 2 | Averaged | 4291080.00 | 4562680.00 | 4325300.00 | 3986956.25 | 4071185.00 |
| Aroclor 1248 | 3 | Averaged | 1996230.00 | 2105285.00 | 2090798.00 | 1974668.75 | 2018218.00 |
| Aroclor 1248 | 4 | Averaged | 5642540.00 | 5832570.00 | 5524508.00 | 5151295.00 | 5236055.00 |
| Aroclor 1248 | 5 | Averaged | 3753500.00 | 3954320.00 | 3845468.00 | 3636438.75 | 3726636.00 |
| Aroclor 1254 | 1 | Averaged | 6052220.00 | 6024570.00 | 5641990.00 | 5331835.00 | 5147482.00 |
| Aroclor 1254 | 2 | Averaged | 4837540.00 | 4873840.00 | 4718368.00 | 4503321.25 | 4385746.00 |
| Aroclor 1254 | 3 | Averaged | 9088090.00 | 9067030.00 | 8515712.00 | 8188597.50 | 7950560.00 |
| Aroclor 1254 | 4 | Averaged | 5250130.00 | 5515500.00 | 5430814.00 | 5252518.75 | 5115408.00 |
| Aroclor 1254 | 5 | Averaged | 7569040.00 | 7663545.00 | 7379306.00 | 7075227.50 | 6918346.00 |
| Aroclor 1260 | 1 | Averaged | 10453040.0 | 10301025.0 | 10038194.0 | 9713460.00 | 9544191.00 |
| Aroclor 1260 | 2 | Averaged | 12183150.0 | 12067250.0 | 11801074.0 | 11484917.5 | 11310002.0 |
| Aroclor 1260 | 3 | Averaged | 5691220.00 | 5822245.00 | 5709174.00 | 5574191.25 | 5484640.00 |
| Aroclor 1260 | 4 | Averaged | 3569510.00 | 3576420.00 | 3443486.00 | 3276160.00 | 3228577.00 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CURVE TYPE | CAL1 | CAL2 | CAL3 | CAL4 | CAL5 |
|---|---|---|---|---|---|---|---|
| Aroclor 1260 | 5 | Averaged | 3302230.00 | 3276995.00 | 3205912.00 | 3056618.75 | 2993726.00 |
| Decachlorobiphenyl (S) | | Averaged | 147518500. | 136951500. | 132501260. | 125984890. | 122996913. |
| Tetrachloro-m-xylene | | Averaged | 122740900. | 118987500. | 122013680. | 119559600. | 118904826. |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-3

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CURVE TYPE | %RSD | R2 | A1 | A2 | A3 |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1 | Averaged | 5.84 | | | 3058740.35 | |
| Aroclor 1016 | 2 | Averaged | 6.32 | | | 3170920.60 | |
| Aroclor 1016 | 3 | Averaged | 4.37 | | | 9396963.20 | |
| Aroclor 1016 | 4 | Averaged | 5.65 | | | 4020815.35 | |
| Aroclor 1016 | 5 | Averaged | 4.94 | | | 2697941.65 | |
| Aroclor 1221 | 1 | Averaged | 7.11 | | | 990400.05 | |
| Aroclor 1221 | 2 | Averaged | 9.84 | | | 527183.80 | |
| Aroclor 1221 | 3 | Averaged | 3.70 | | | 1386989.95 | |
| Aroclor 1221 | 4 | Averaged | 2.83 | | | 1103515.20 | |
| Aroclor 1221 | 5 | Averaged | 5.03 | | | 3343089.15 | |
| Aroclor 1242 | 1 | Averaged | 8.76 | | | 2420361.20 | |
| Aroclor 1242 | 2 | Averaged | 8.73 | | | 2461220.20 | |
| Aroclor 1242 | 3 | Averaged | 7.06 | | | 7255531.45 | |
| Aroclor 1242 | 4 | Averaged | 8.48 | | | 3116237.30 | |
| Aroclor 1242 | 5 | Averaged | 9.80 | | | 2093297.05 | |
| Aroclor 1248 | 1 | Averaged | 5.14 | | | 2385348.25 | |
| Aroclor 1248 | 2 | Averaged | 5.34 | | | 4247440.25 | |
| Aroclor 1248 | 3 | Averaged | 2.84 | | | 2037039.95 | |
| Aroclor 1248 | 4 | Averaged | 5.16 | | | 5477393.60 | |
| Aroclor 1248 | 5 | Averaged | 3.20 | | | 3783272.55 | |
| Aroclor 1254 | 1 | Averaged | 7.17 | | | 5639619.40 | |
| Aroclor 1254 | 2 | Averaged | 4.55 | | | 4663763.05 | |
| Aroclor 1254 | 3 | Averaged | 5.97 | | | 8561997.90 | |
| Aroclor 1254 | 4 | Averaged | 2.99 | | | 5312874.15 | |
| Aroclor 1254 | 5 | Averaged | 4.34 | | | 7321092.90 | |
| Aroclor 1260 | 1 | Averaged | 3.82 | | | 10009982.00 | |
| Aroclor 1260 | 2 | Averaged | 3.15 | | | 11769278.70 | |
| Aroclor 1260 | 3 | Averaged | 2.30 | | | 5656294.05 | |
| Aroclor 1260 | 4 | Averaged | 4.73 | | | 3418830.60 | |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CURVE TYPE | %RSD | R2 | A1 | A2 | A3 |
|---|---|---|---|---|---|---|---|
| Aroclor 1260 | 5 | Averaged | 4.29 | | | 3167096.35 | |
| Decachlorobiphenyl (S) | | Averaged | 7.27 | | | 133190612.6 | |
| Tetrachloro-m-xylene | | Averaged | 1.49 | | | 120441301.3 | |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CAL1 | CAL2 | CAL3 | CAL4 | CAL5 | RT | RT WINDOW | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | FROM | TO |
| Aroclor 1016 | 1 | 3.396 | 3.395 | 3.394 | 3.395 | 3.395 | 3.395 | 3.361 | 3.429 |
| Aroclor 1016 | 2 | 3.592 | 3.592 | 3.593 | 3.593 | 3.593 | 3.592 | 3.558 | 3.626 |
| Aroclor 1016 | 3 | 3.91 | 3.909 | 3.908 | 3.908 | 3.908 | 3.909 | 3.875 | 3.943 |
| Aroclor 1016 | 4 | 4.012 | 4.012 | 4.012 | 4.011 | 4.011 | 4.011 | 3.977 | 4.045 |
| Aroclor 1016 | 5 | 4.079 | 4.077 | 4.077 | 4.077 | 4.078 | 4.078 | 4.044 | 4.112 |
| Aroclor 1221 | 1 | 1.854 | 1.854 | 1.854 | 1.853 | 1.853 | 1.853 | 1.819 | 1.887 |
| Aroclor 1221 | 2 | 2.472 | 2.473 | 2.471 | 2.471 | 2.471 | 2.471 | 2.437 | 2.505 |
| Aroclor 1221 | 3 | 2.759 | 2.759 | 2.758 | 2.758 | 2.758 | 2.758 | 2.724 | 2.792 |
| Aroclor 1221 | 4 | 2.861 | 2.861 | 2.861 | 2.86 | 2.86 | 2.86 | 2.826 | 2.894 |
| Aroclor 1221 | 5 | 2.924 | 2.924 | 2.924 | 2.923 | 2.924 | 2.923 | 2.889 | 2.957 |
| Aroclor 1242 | 1 | 3.395 | 3.395 | 3.395 | 3.395 | 3.395 | 3.396 | 3.362 | 3.43 |
| Aroclor 1242 | 2 | 3.593 | 3.593 | 3.593 | 3.593 | 3.593 | 3.592 | 3.558 | 3.626 |
| Aroclor 1242 | 3 | 3.908 | 3.909 | 3.908 | 3.908 | 3.908 | 3.909 | 3.875 | 3.943 |
| Aroclor 1242 | 4 | 4.012 | 4.012 | 4.012 | 4.011 | 4.011 | 4.011 | 3.977 | 4.045 |
| Aroclor 1242 | 5 | 4.078 | 4.079 | 4.077 | 4.077 | 4.077 | 4.078 | 4.044 | 4.112 |
| Aroclor 1248 | 1 | 4.344 | 4.344 | 4.344 | 4.343 | 4.344 | 4.343 | 4.309 | 4.377 |
| Aroclor 1248 | 2 | 4.63 | 4.63 | 4.631 | 4.63 | 4.63 | 4.63 | 4.596 | 4.664 |
| Aroclor 1248 | 3 | 4.898 | 4.899 | 4.898 | 4.898 | 4.897 | 4.898 | 4.864 | 4.932 |
| Aroclor 1248 | 4 | 4.964 | 4.964 | 4.964 | 4.964 | 4.963 | 4.963 | 4.929 | 4.997 |
| Aroclor 1248 | 5 | 5.124 | 5.124 | 5.123 | 5.123 | 5.123 | 5.123 | 5.089 | 5.157 |
| Aroclor 1254 | 1 | 5.248 | 5.247 | 5.247 | 5.247 | 5.247 | 5.248 | 5.214 | 5.282 |
| Aroclor 1254 | 2 | 5.493 | 5.494 | 5.493 | 5.493 | 5.493 | 5.492 | 5.458 | 5.526 |
| Aroclor 1254 | 3 | 5.596 | 5.595 | 5.596 | 5.596 | 5.595 | 5.596 | 5.562 | 5.63 |
| Aroclor 1254 | 4 | 6.114 | 6.115 | 6.114 | 6.113 | 6.114 | 6.113 | 6.079 | 6.147 |
| Aroclor 1254 | 5 | 6.386 | 6.386 | 6.385 | 6.386 | 6.386 | 6.387 | 6.353 | 6.421 |
| Aroclor 1260 | 1 | 6.387 | 6.386 | 6.386 | 6.387 | 6.386 | 6.387 | 6.353 | 6.421 |
| Aroclor 1260 | 2 | 7.09 | 7.09 | 7.09 | 7.091 | 7.09 | 7.09 | 7.056 | 7.124 |
| Aroclor 1260 | 3 | 7.338 | 7.338 | 7.338 | 7.338 | 7.338 | 7.338 | 7.304 | 7.372 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

**LAB FILE ID**

| | | | | | |
|---|---|---|---|---|---|
| CAL1A = | 050318.B\050318057.D | CAL1B = | 050318.B\050318021.D | CAL1C = | 050318.B\050318045.D |
| CAL1D = | 050318.B\050318033.D | CAL1F = | 050318.B\050318009.D | CAL2A = | 050318.B\050318059.D |
| CAL2B = | 050318.B\050318023.D | CAL2C = | 050318.B\050318047.D | CAL2D = | 050318.B\050318035.D |
| CAL2F = | 050318.B\050318011.D | CAL3A = | 050318.B\050318061.D | CAL3B = | 050318.B\050318025.D |
| CAL3C = | 050318.B\050318049.D | CAL3D = | 050318.B\050318037.D | CAL3F = | 050318.B\050318013.D |
| CAL4A = | 050318.B\050318063.D | CAL4B = | 050318.B\050318027.D | CAL4C = | 050318.B\050318051.D |
| CAL4D = | 050318.B\050318039.D | CAL4F = | 050318.B\050318015.D | CAL5A = | 050318.B\050318065.D |
| CAL5B = | 050318.B\050318029.D | CAL5C = | 050318.B\050318053.D | CAL5D = | 050318.B\050318041.D |
| CAL5F = | 050318.B\050318017.D | | | | |

| COMPOUND | PEAK | CAL1 | CAL2 | CAL3 | CAL4 | CAL5 | RT | RT WINDOW | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | FROM | TO |
| Aroclor 1260 | 4 | 7.529 | 7.528 | 7.529 | 7.528 | 7.528 | 7.529 | 7.495 | 7.563 |
| Aroclor 1260 | 5 | 7.987 | 7.986 | 7.986 | 7.986 | 7.986 | 7.987 | 7.953 | 8.021 |
| Decachlorobiphenyl (S) | | 8.657 | 8.656 | 8.657 | 8.658 | 8.657 | 8.657 | 8.623 | 8.691 |
| Tetrachloro-m-xylene | | 2.549 | 2.548 | 2.549 | 2.549 | 2.549 | 2.549 | 2.515 | 2.583 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION DATA (SINGLE POINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158029

Calibration Date(s): 05/03/2018 Calibration Time(s): 10:38

**LAB FILE ID**

CAL3S = 050318.B\050318007.D

| COMPOUND | AMOUNT | PEAK | RT | RT WINDOW | | RESPONSE FACTOR |
|---|---|---|---|---|---|---|
| | | | | FROM | TO | |
| Aroclor 1232 | .5 | 1 | 2.923 | 2.888 | 2.956 | 2694578.00 |
| Aroclor 1232 | .5 | 2 | 3.592 | 3.558 | 3.626 | 1418110.00 |
| Aroclor 1232 | .5 | 3 | 3.908 | 3.874 | 3.942 | 4136332.00 |
| Aroclor 1232 | .5 | 4 | 4.011 | 3.977 | 4.045 | 1788600.00 |
| Aroclor 1232 | .5 | 5 | 4.077 | 4.044 | 4.112 | 1171600.00 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318007.D
Lab Smp Id: 1232-CAL3S  Client Smp ID: 1232-CAL3S
Inj Date : 03-MAY-2018 10:38
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17762,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 7  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1232.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.203 | 21781 | 21004 | 0.964 | 0.07 | | |
| 1.463 | 36240 | 36092 | 0.996 | 0.12 | | |
| 1.577 | 15218 | 17270 | 1.135 | 0.05 | | |
| 1.731 | 27375 | 19952 | 0.729 | 0.09 | | |
| 1.854 | 287017 | 275656 | 0.960 | 0.99 | | |
| 2.055 | 20541 | 13934 | 0.678 | 0.07 | | |
| 2.258 | 82536 | 71936 | 0.872 | 0.28 | | |
| 2.470 | 189690 | 148614 | 0.783 | 0.65 | | |
| 2.550 | 5813078 | 5747976 | 0.989 | 20.07 | | |
| 2.691 | 9678 | 8506 | 0.879 | 0.03 | | |
| 2.759 | 439086 | 342474 | 0.780 | 1.51 | | |
| 2.860 | 410100 | 382186 | 0.932 | 1.41 | | |
| 2.923 | 1347290 | 1173674 | 0.871 | 4.65 | 4 Aroclor 1232 | BA |
| 3.091 | 14407 | 10282 | 0.714 | 0.04 | | |
| 3.130 | 85254 | 77482 | 0.909 | 0.29 | | |
| 3.359 | 65038 | 51273 | 0.788 | 0.22 | | |
| 3.395 | 755897 | 677405 | 0.896 | 2.61 | | |
| 3.421 | 462251 | 400030 | 0.865 | 1.59 | | |
| 3.514 | 123741 | 106543 | 0.861 | 0.42 | | |
| 3.593 | 709055 | 511569 | 0.721 | 2.44 | 4 Aroclor 1232 | BA |
| 3.690 | 42450 | 39644 | 0.934 | 0.14 | | |
| 3.777 | 22903 | 22644 | 0.989 | 0.07 | | |
| 3.813 | 177435 | 173705 | 0.979 | 0.61 | | |
| 3.839 | 137753 | 115530 | 0.839 | 0.47 | | |
| 3.908 | 2068167 | 1164086 | 0.563 | 7.14 | 4 Aroclor 1232 | BA |
| 4.012 | 894300 | 722554 | 0.808 | 3.08 | 4 Aroclor 1232 | BA |
| 4.078 | 585801 | 515499 | 0.880 | 2.02 | 4 Aroclor 1232 | BA |
| 4.142 | 172613 | 141694 | 0.821 | 0.59 | | |
| 4.221 | 66165 | 54816 | 0.828 | 0.22 | | |
| 4.298 | 421274 | 396579 | 0.941 | 1.45 | | |
| 4.344 | 412193 | 388140 | 0.942 | 1.42 | | |
| 4.377 | 176300 | 174820 | 0.992 | 0.60 | | |
| 4.393 | 217050 | 197713 | 0.911 | 0.74 | | |
| 4.456 | 21313 | 14725 | 0.691 | 0.07 | | |
| 4.501 | 559437 | 531535 | 0.950 | 1.93 | | |
| 4.537 | 500359 | 345797 | 0.691 | 1.72 | | |
| 4.631 | 754604 | 676980 | 0.897 | 2.60 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.704 | 180496 | 157437 | 0.872 | 0.62 | |
| 4.812 | 38757 | 31451 | 0.811 | 0.13 | |
| 4.853 | 43219 | 36297 | 0.840 | 0.14 | |
| 4.899 | 330114 | 306995 | 0.930 | 1.13 | |
| 4.934 | 596494 | 557193 | 0.934 | 2.05 | |
| 4.965 | 801978 | 578979 | 0.722 | 2.76 | |
| 5.043 | 94089 | 63302 | 0.673 | 0.32 | |
| 5.124 | 655151 | 579269 | 0.884 | 2.26 | |
| 5.185 | 135082 | 96508 | 0.714 | 0.46 | |
| 5.248 | 143904 | 122480 | 0.851 | 0.49 | |
| 5.298 | 107134 | 87156 | 0.814 | 0.36 | |
| 5.394 | 25919 | 21282 | 0.821 | 0.08 | |
| 5.449 | 92487 | 74463 | 0.805 | 0.31 | |
| 5.493 | 146870 | 119882 | 0.816 | 0.50 | |
| 5.533 | 94926 | 78523 | 0.827 | 0.32 | |
| 5.598 | 239605 | 182221 | 0.761 | 0.82 | |
| 5.693 | 73514 | 62843 | 0.855 | 0.25 | |
| 5.762 | 21375 | 15944 | 0.746 | 0.07 | |
| 5.799 | 14460 | 14452 | 0.999 | 0.04 | |
| 5.827 | 22197 | 16378 | 0.738 | 0.07 | |
| 5.879 | 165227 | 122715 | 0.743 | 0.57 | |
| 5.974 | 25874 | 15849 | 0.613 | 0.08 | |
| 6.114 | 129977 | 113570 | 0.874 | 0.44 | |
| 6.142 | 46077 | 35680 | 0.774 | 0.15 | |
| 6.258 | 14585 | 14837 | 1.017 | 0.05 | |
| 6.282 | 18439 | 14553 | 0.789 | 0.06 | |
| 6.388 | 45052 | 37597 | 0.835 | 0.15 | |
| 6.594 | 12882 | 11414 | 0.886 | 0.04 | |
| 6.646 | 9804 | 9441 | 0.963 | 0.03 | |
| 6.805 | 11496 | 13129 | 1.142 | 0.03 | |
| 7.091 | 27018 | 23314 | 0.863 | 0.09 | |
| 7.338 | 11666 | 12282 | 1.053 | 0.04 | |
| 7.815 | 16928 | 18240 | 1.078 | 0.05 | |
| 7.839 | 9787 | 9742 | 0.995 | 0.03 | |
| 8.363 | 56875 | 47051 | 0.827 | 0.19 | |
| 8.441 | 10437 | 9998 | 0.958 | 0.03 | |
| 8.657 | 6328903 | 5317233 | 0.840 | 22.27 | |
| 9.001 | 15882 | 11528 | 0.726 | 0.05 | |
| | 28960069 | 24811547 | | 100.000 | |

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318007.D
Lab Smp Id: 1232-CAL3S  Client Smp ID: 1232-CAL3S
Inj Date : 03-MAY-2018 10:38
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17762,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 7  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1232.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| 2.923 | 2.922 | 0.001 | 1347289 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 3.592 | 3.592 | 0.000 | 709055 | 0.50000 | 0.50 | 0.00- 20.00 | 52.63 | BA |
| 3.908 | 3.908 | 0.000 | 2068166 | 0.50000 | 0.50 | 0.00- 20.00 | 153.51 | BA |
| 4.011 | 4.011 | 0.000 | 894300 | 0.50000 | 0.50 | 0.00- 20.00 | 66.38 | BA |
| 4.077 | 4.078 | -0.001 | 585800 | 0.50000 | 0.50 | 0.00- 20.00 | 43.48 | BA |
| Average of Peak Amounts = | | | | | 0.50000 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318007.D



Date : 03-MAY-2018 10:38

Client ID: 1232-CAL3S

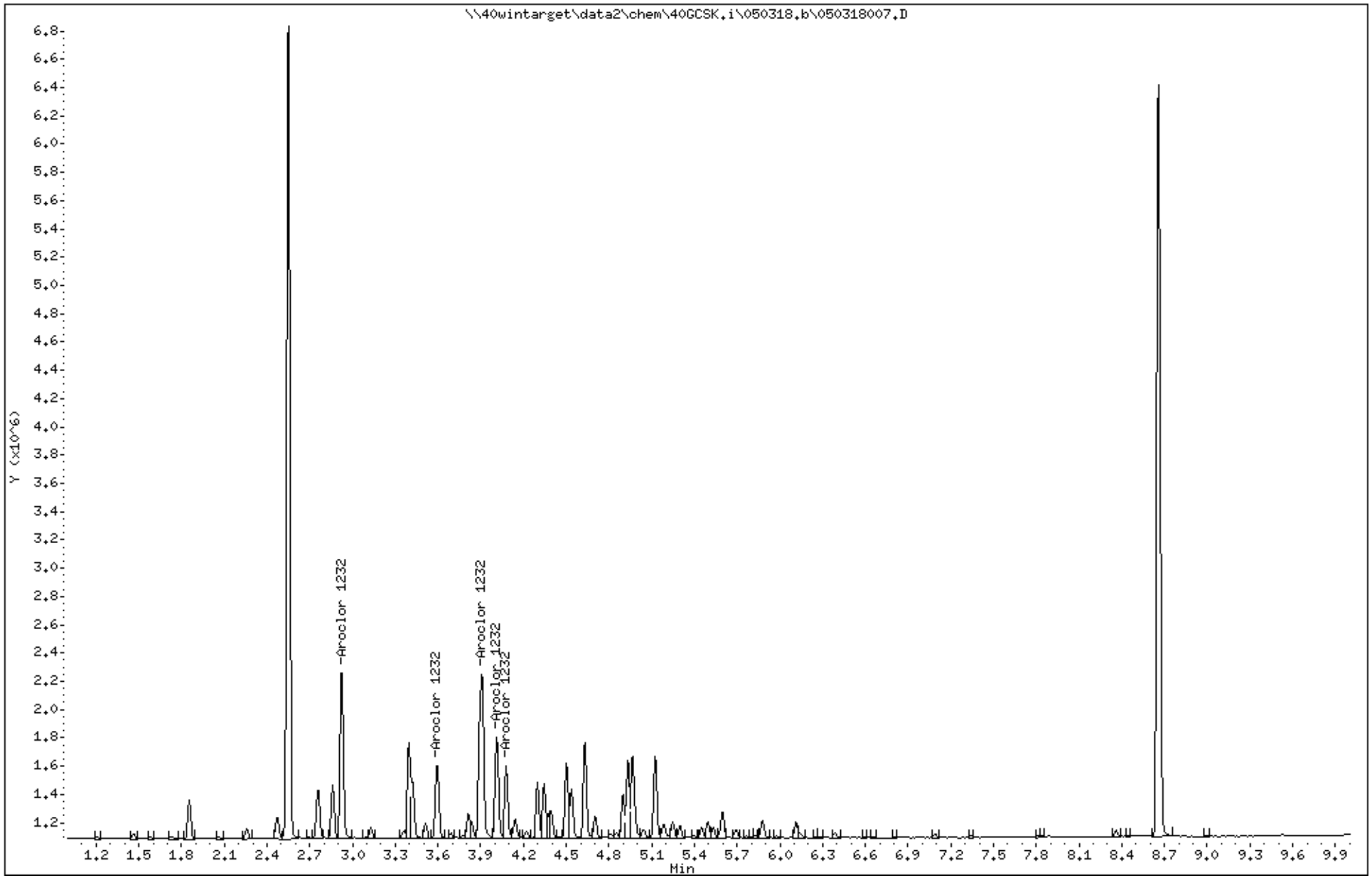
Instrument: 40GCSK.i

Sample Info: 1232-CAL3S, 185539:1

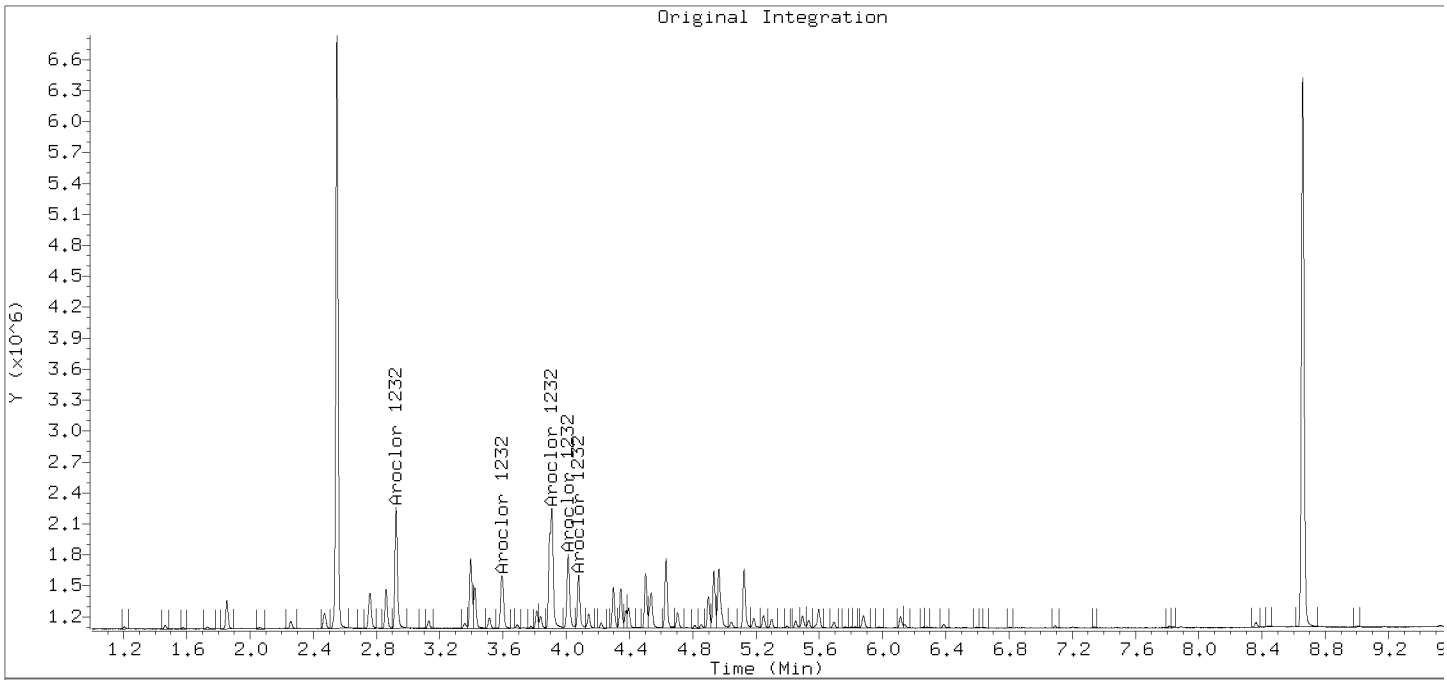
Operator: BLM

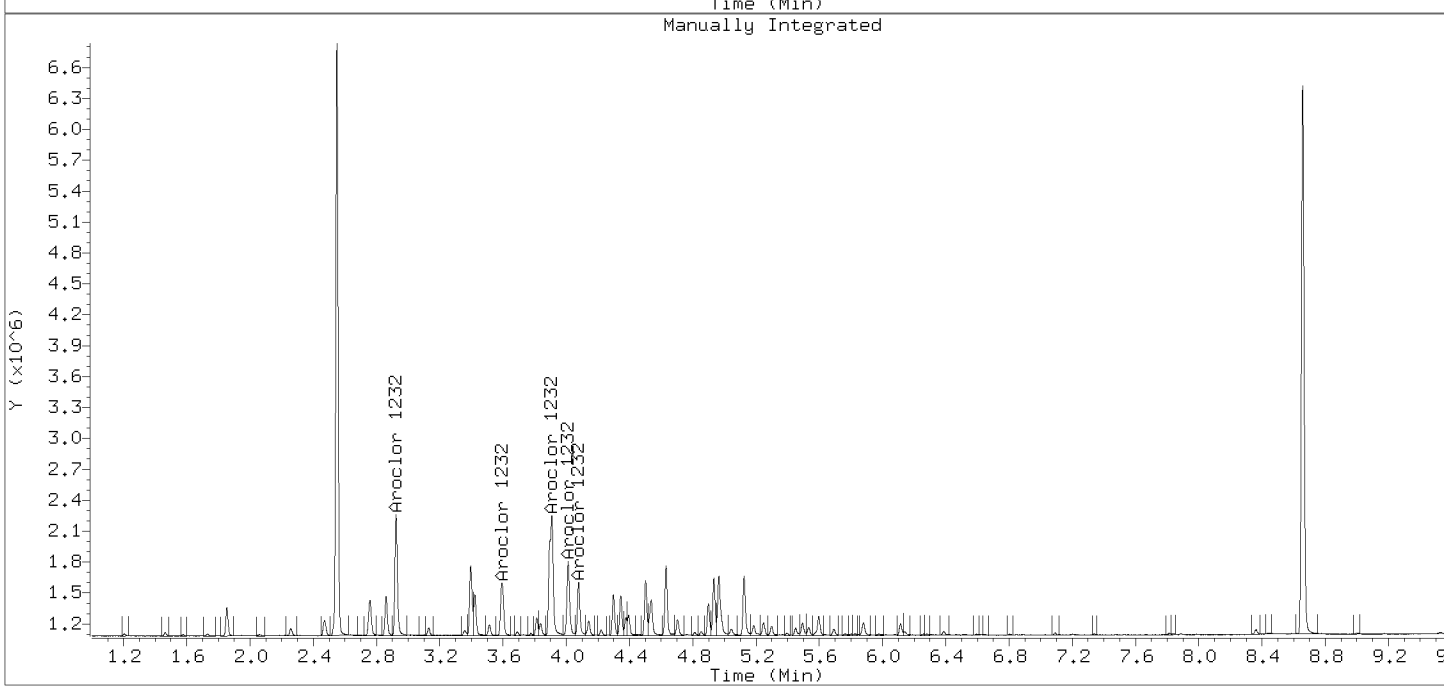
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318007.D (ManInt: NSAR1232.sub Orig: NSAR1232.sub)
Injection Date: 03-MAY-2018 10:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CAL3S




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1232 | 1323458 | 1347289 | BA |
| Aroclor 1232 | 1323458 | 1347289 | BA |
| Aroclor 1232 | 1323458 | 1347289 | BA |
| Aroclor 1232 | 1323458 | 1347289 | BA |
| Aroclor 1232 | 1323458 | 1347289 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Lab Smp Id: 1221-CAL1F  Client Smp ID: 1221-CAL1F
Inj Date : 03-MAY-2018 10:54
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 9  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.731 | 9686 | 10014 | 1.034 | 0.27 | | |
| 1.855 | 107294 | 97367 | 0.907 | 3.03 | 1 Aroclor 1221 | BA |
| 2.258 | 32602 | 27152 | 0.833 | 0.92 | | |
| 2.472 | 60994 | 41317 | 0.677 | 1.72 | 1 Aroclor 1221 | BA |
| 2.550 | 1127884 | 1103764 | 0.979 | 31.91 | | |
| 2.759 | 145136 | 109781 | 0.756 | 4.10 | 1 Aroclor 1221 | BA |
| 2.861 | 112722 | 99631 | 0.884 | 3.18 | 1 Aroclor 1221 | BA |
| 2.924 | 352431 | 286896 | 0.814 | 9.97 | 1 Aroclor 1221 | BA |
| 3.360 | 17152 | 14459 | 0.843 | 0.48 | | |
| 3.400 | 24425 | 19663 | 0.805 | 0.69 | | |
| 3.591 | 34963 | 24199 | 0.692 | 0.98 | | |
| 3.689 | 15021 | 10242 | 0.682 | 0.42 | | |
| 3.902 | 19500 | 13309 | 0.683 | 0.55 | | |
| 4.013 | 21517 | 20144 | 0.936 | 0.60 | | |
| 4.081 | 21191 | 16978 | 0.801 | 0.59 | | |
| 4.345 | 9991 | 7179 | 0.719 | 0.28 | | |
| 4.536 | 13824 | 11359 | 0.822 | 0.39 | | |
| 4.631 | 12231 | 10842 | 0.886 | 0.34 | | |
| 8.361 | 13032 | 11259 | 0.864 | 0.36 | | |
| 8.658 | 1382443 | 1179694 | 0.853 | 39.22 | | |
| | 3534038 | 3115249 | | 100.000 | | |

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Lab Smp Id: 1221-CAL1F  Client Smp ID: 1221-CAL1F
Inj Date : 03-MAY-2018 10:54
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 9  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.854 | 1.853 | 0.001 | 107293 | 0.10000 | 0.11 | 0.00- 20.00 | 100.00(M) | BA |
| 2.472 | 2.471 | 0.001 | 60994 | 0.10000 | 0.12 | 0.00- 20.00 | 56.85 | BA |
| 2.759 | 2.758 | 0.001 | 145136 | 0.10000 | 0.10 | 0.00- 20.00 | 135.27 | BA |
| 2.861 | 2.860 | 0.001 | 112722 | 0.10000 | 0.10 | 0.00- 20.00 | 105.06 | BA |
| 2.924 | 2.923 | 0.001 | 352430 | 0.10000 | 0.10 | 0.00- 20.00 | 328.47 | BA |
| Average of Peak Amounts = | | | | | 0.10600 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

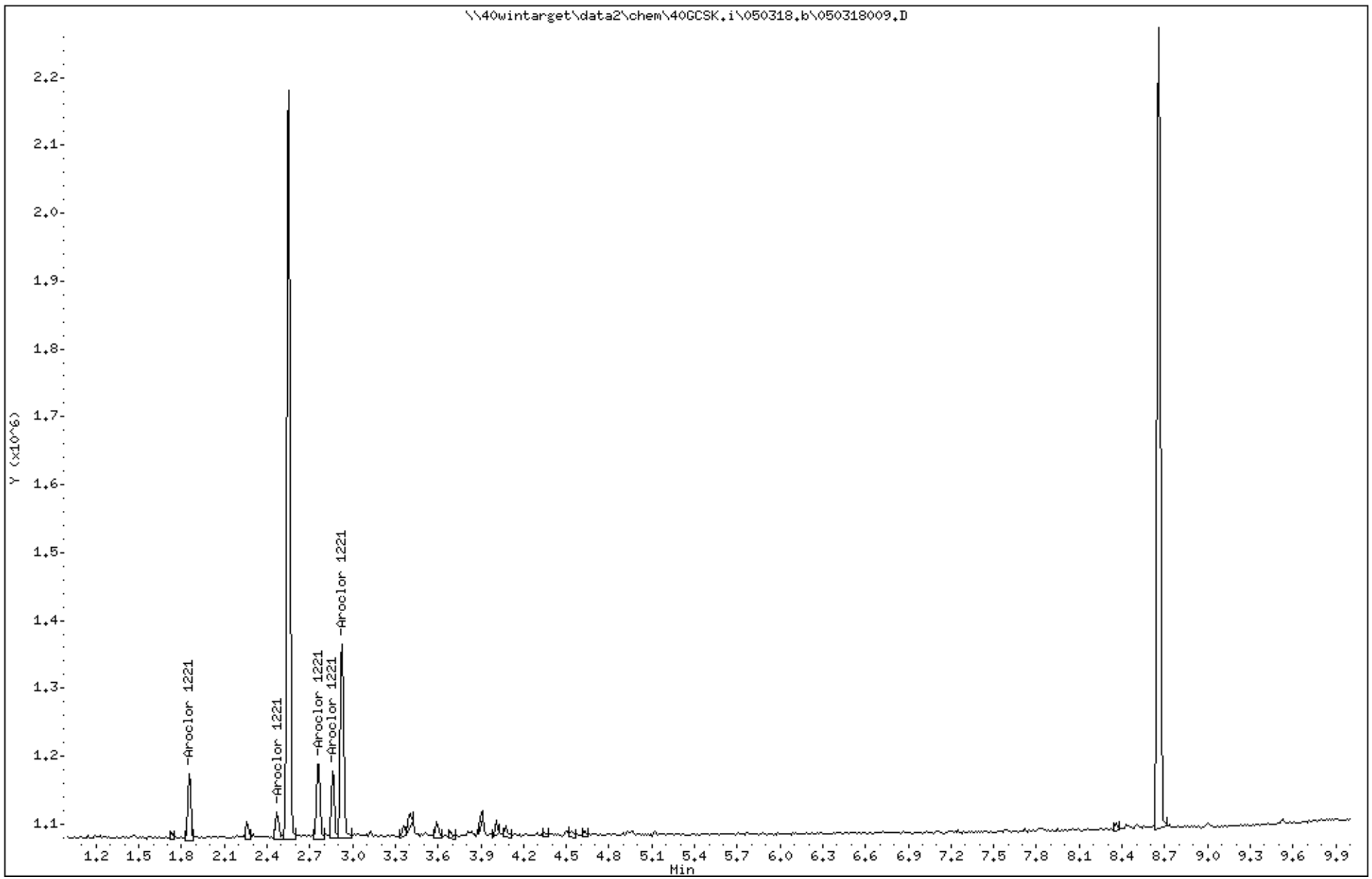
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Date : 03-MAY-2018 10:54
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSK.i

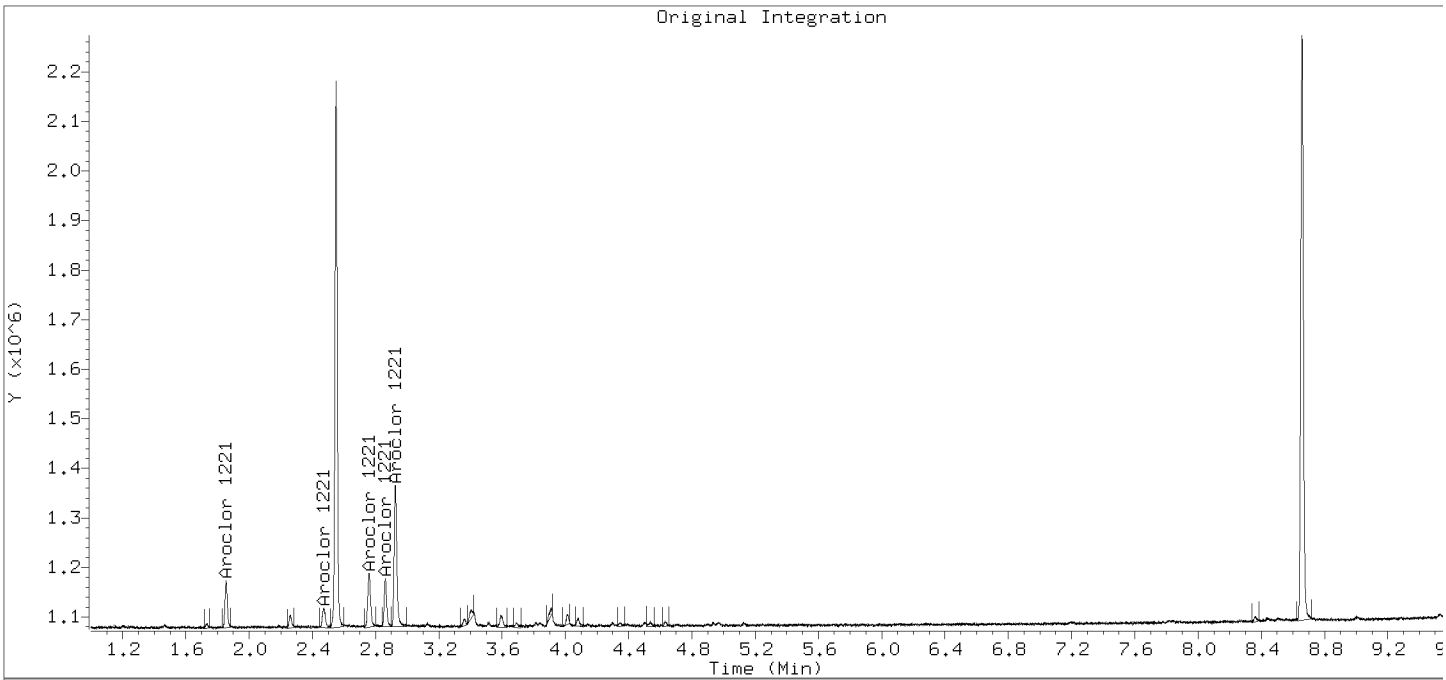
Operator: BLM

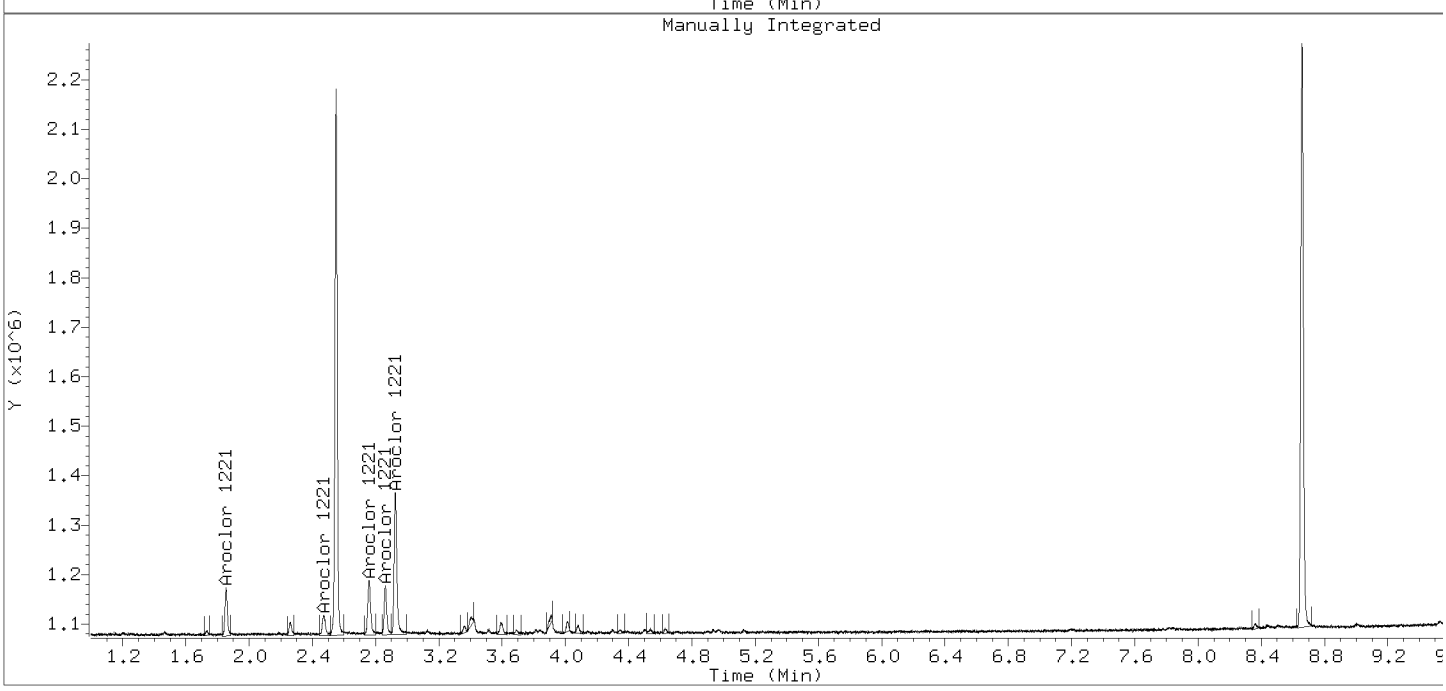
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318009.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 10:54 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL1F




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 99498 | 107293 | BA |
| Aroclor 1221 | 99498 | 107293 | BA |
| Aroclor 1221 | 99498 | 107293 | BA |
| Aroclor 1221 | 99498 | 107293 | BA |
| Aroclor 1221 | 99498 | 107293 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Lab Smp Id: 1221-CAL2F  Client Smp ID: 1221-CAL2F
Inj Date : 03-MAY-2018 11:10
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 11  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.465 | 15879 | 14491 | 0.913 | 0.21 | | |
| 1.854 | 211316 | 193008 | 0.913 | 2.82 | 1 Aroclor 1221 | BA |
| 2.260 | 64781 | 53626 | 0.828 | 0.86 | | |
| 2.473 | 108295 | 79375 | 0.733 | 1.44 | 1 Aroclor 1221 | BA |
| 2.550 | 2289757 | 2220517 | 0.970 | 30.61 | | |
| 2.759 | 285864 | 216962 | 0.759 | 3.82 | 1 Aroclor 1221 | BA |
| 2.861 | 228790 | 197664 | 0.864 | 3.05 | 1 Aroclor 1221 | BA |
| 2.924 | 703532 | 596946 | 0.848 | 9.40 | 1 Aroclor 1221 | BA |
| 3.358 | 43090 | 32927 | 0.764 | 0.57 | | |
| 3.405 | 163983 | 71887 | 0.438 | 2.19 | | |
| 3.514 | 12665 | 11698 | 0.924 | 0.16 | | |
| 3.595 | 64510 | 43474 | 0.674 | 0.86 | | |
| 3.692 | 18163 | 19178 | 1.056 | 0.24 | | |
| 3.813 | 14469 | 14899 | 1.030 | 0.19 | | |
| 3.840 | 12566 | 13596 | 1.082 | 0.16 | | |
| 3.910 | 131415 | 75277 | 0.573 | 1.75 | | |
| 4.014 | 69273 | 51693 | 0.746 | 0.92 | | |
| 4.080 | 50183 | 36326 | 0.724 | 0.67 | | |
| 4.140 | 11470 | 8989 | 0.784 | 0.15 | | |
| 4.301 | 17091 | 13825 | 0.809 | 0.22 | | |
| 4.342 | 9983 | 11347 | 1.137 | 0.13 | | |
| 4.502 | 18400 | 18442 | 1.002 | 0.24 | | |
| 4.536 | 16704 | 13732 | 0.822 | 0.22 | | |
| 4.634 | 22705 | 19334 | 0.852 | 0.30 | | |
| 4.901 | 10007 | 9965 | 0.996 | 0.13 | | |
| 4.933 | 16599 | 13590 | 0.819 | 0.22 | | |
| 4.966 | 23685 | 14128 | 0.596 | 0.31 | | |
| 5.125 | 20545 | 13707 | 0.667 | 0.27 | | |
| 5.182 | 10842 | 6714 | 0.619 | 0.14 | | |
| 8.363 | 28463 | 22195 | 0.780 | 0.38 | | |
| 8.657 | 2783075 | 2356466 | 0.847 | 37.37 | | |
| | 7478097 | 6465978 | | 100.000 | | |

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Lab Smp Id: 1221-CAL2F  Client Smp ID: 1221-CAL2F
Inj Date : 03-MAY-2018 11:10
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 11  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.854 | 1.853 | 0.001 | 211315 | 0.20000 | 0.21 | 0.00- 20.00 | 100.00(M) | BA |
| 2.473 | 2.471 | 0.002 | 108294 | 0.20000 | 0.20 | 0.00- 20.00 | 51.25 | BA |
| 2.759 | 2.758 | 0.001 | 285863 | 0.20000 | 0.21 | 0.00- 20.00 | 135.28 | BA |
| 2.861 | 2.860 | 0.001 | 228789 | 0.20000 | 0.21 | 0.00- 20.00 | 108.27 | BA |
| 2.924 | 2.923 | 0.001 | 703532 | 0.20000 | 0.21 | 0.00- 20.00 | 332.93 | BA |
| Average of Peak Amounts = | | | | | 0.20800 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

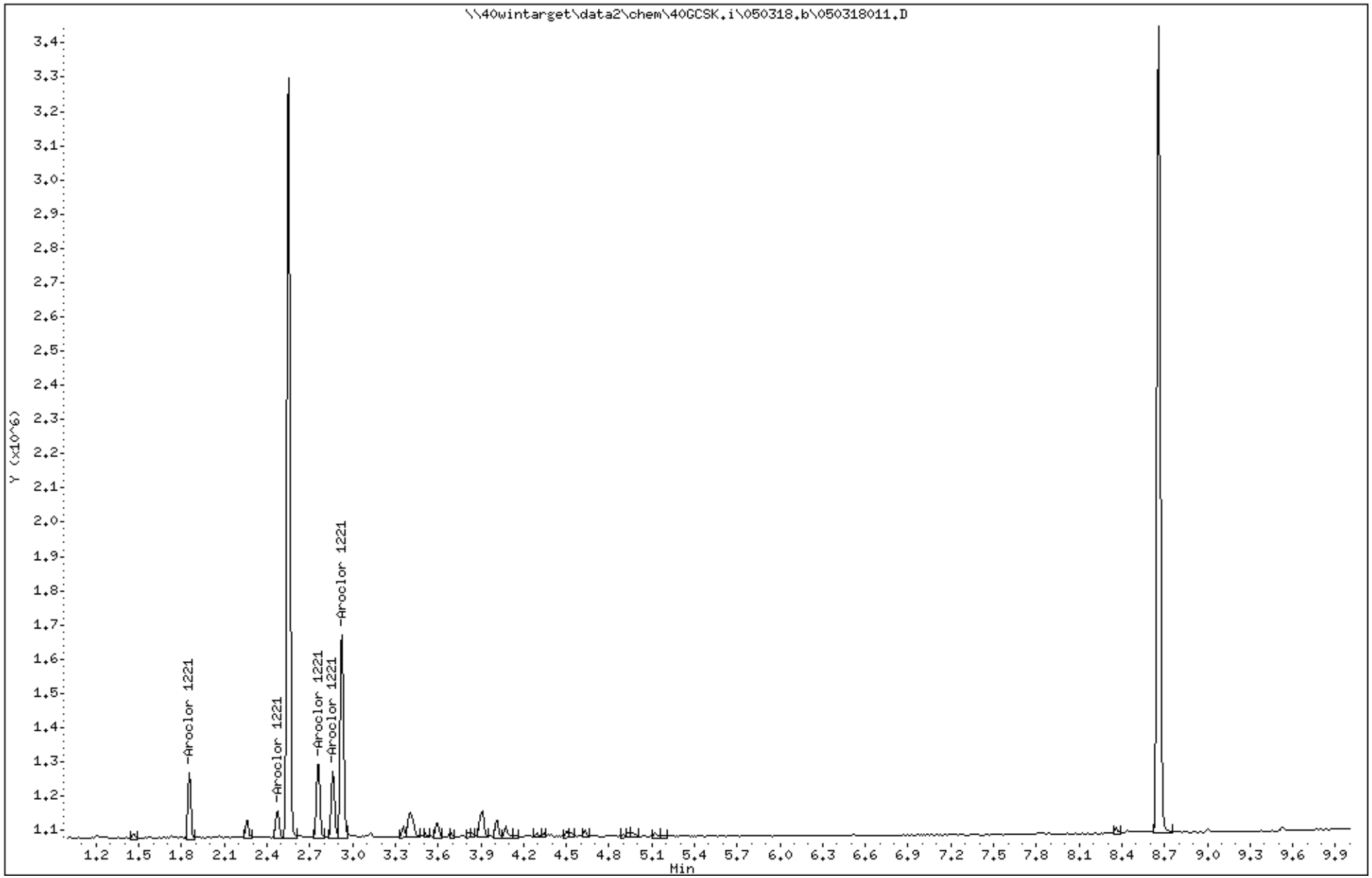
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Date : 03-MAY-2018 11:10
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

Instrument: 40GCSK.i

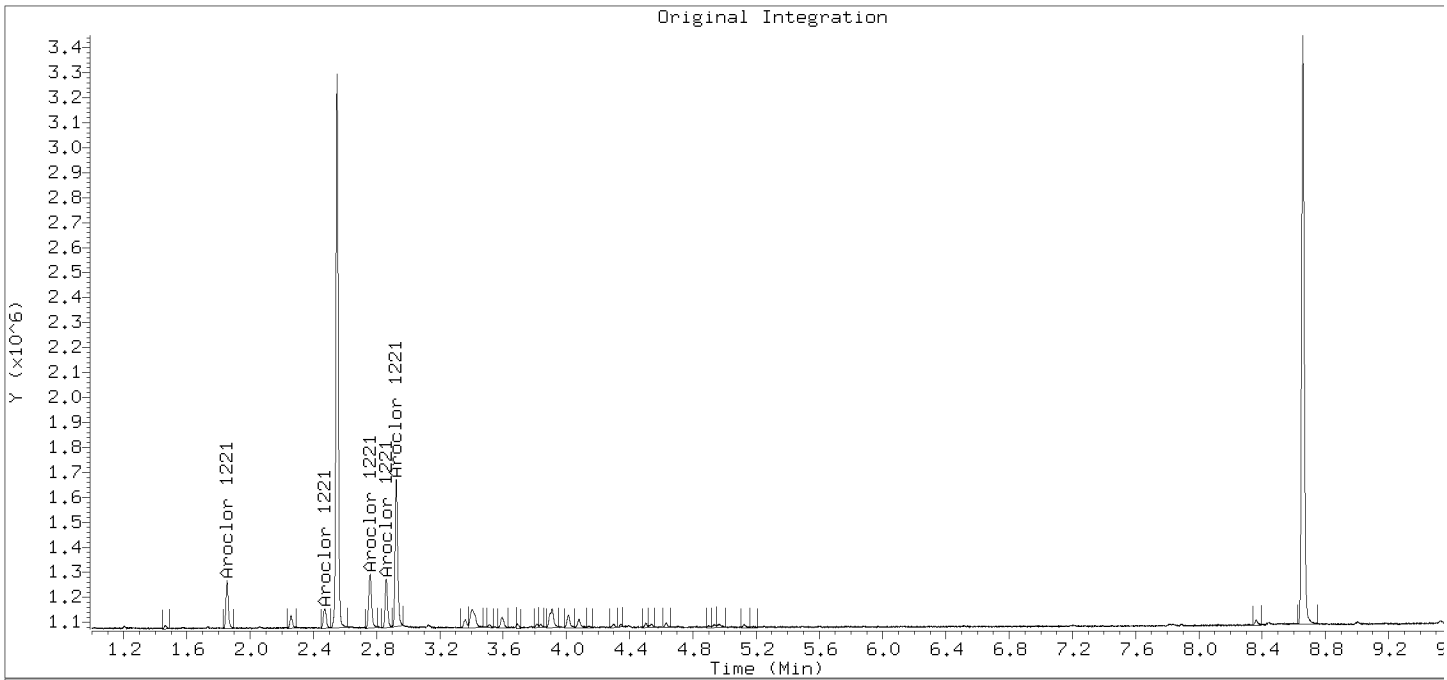
Operator: BLM

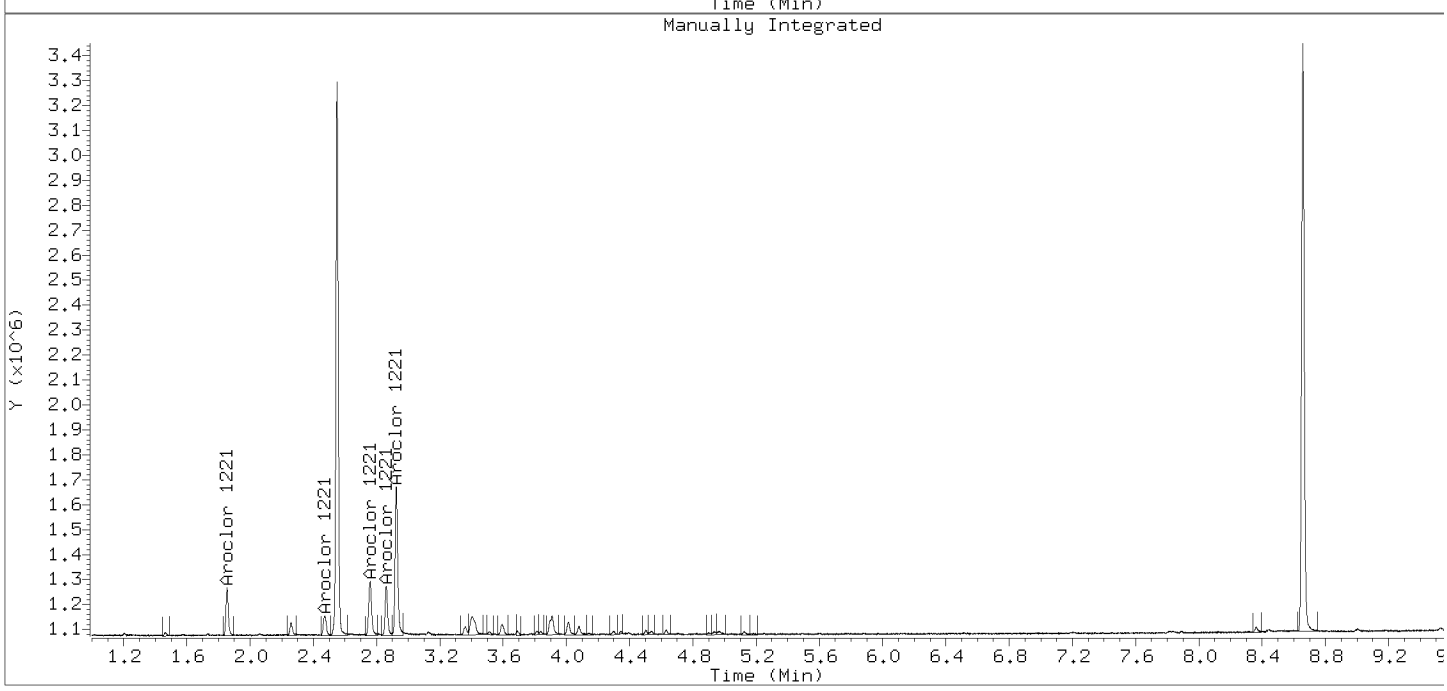
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318011.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:10 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL2F




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 208640 | 211315 | BA |
| Aroclor 1221 | 208640 | 211315 | BA |
| Aroclor 1221 | 208640 | 211315 | BA |
| Aroclor 1221 | 208640 | 211315 | BA |
| Aroclor 1221 | 208640 | 211315 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Lab Smp Id: 1221-CAL3F  Client Smp ID: 1221-CAL3F
Inj Date : 03-MAY-2018 11:26
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 13  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.201 | 19806 | 17369 | 0.877 | 0.11 | | |
| 1.464 | 34328 | 33619 | 0.979 | 0.19 | | |
| 1.581 | 13696 | 12713 | 0.928 | 0.07 | | |
| 1.731 | 22417 | 22129 | 0.987 | 0.12 | | |
| 1.854 | 481906 | 459228 | 0.953 | 2.71 | 1 Aroclor 1221 | BA |
| 2.062 | 21230 | 13100 | 0.617 | 0.11 | | |
| 2.259 | 150886 | 131990 | 0.875 | 0.85 | | |
| 2.472 | 256415 | 187664 | 0.732 | 1.44 | 1 Aroclor 1221 | BA |
| 2.550 | 5729845 | 5680322 | 0.991 | 32.28 | | |
| 2.759 | 674836 | 526641 | 0.780 | 3.80 | 1 Aroclor 1221 | BA |
| 2.861 | 533614 | 482208 | 0.904 | 3.00 | 1 Aroclor 1221 | BA |
| 2.924 | 1641425 | 1395945 | 0.850 | 9.24 | 1 Aroclor 1221 | BA |
| 3.127 | 39491 | 30512 | 0.773 | 0.22 | | |
| 3.359 | 105533 | 79776 | 0.756 | 0.59 | | |
| 3.405 | 373652 | 182022 | 0.487 | 2.10 | | |
| 3.515 | 34263 | 30001 | 0.876 | 0.19 | | |
| 3.593 | 136019 | 97896 | 0.720 | 0.76 | | |
| 3.690 | 34659 | 33804 | 0.975 | 0.19 | | |
| 3.814 | 38841 | 37190 | 0.957 | 0.21 | | |
| 3.839 | 44019 | 32301 | 0.734 | 0.24 | | |
| 3.911 | 312341 | 176326 | 0.565 | 1.75 | | |
| 4.012 | 150124 | 121678 | 0.811 | 0.84 | | |
| 4.078 | 83461 | 76616 | 0.918 | 0.47 | | |
| 4.138 | 21058 | 16682 | 0.792 | 0.11 | | |
| 4.299 | 34557 | 31764 | 0.919 | 0.19 | | |
| 4.344 | 27319 | 27925 | 1.022 | 0.15 | | |
| 4.502 | 41583 | 38153 | 0.918 | 0.23 | | |
| 4.536 | 45871 | 32766 | 0.714 | 0.25 | | |
| 4.632 | 49554 | 44613 | 0.900 | 0.27 | | |
| 4.707 | 14877 | 13175 | 0.886 | 0.08 | | |
| 4.897 | 19763 | 17339 | 0.877 | 0.11 | | |
| 4.932 | 35107 | 31569 | 0.899 | 0.19 | | |
| 4.964 | 55119 | 33699 | 0.611 | 0.31 | | |
| 5.123 | 30869 | 27401 | 0.888 | 0.17 | | |
| 5.182 | 10539 | 10226 | 0.970 | 0.05 | | |
| 5.465 | 12554 | 8003 | 0.637 | 0.07 | | |
| 5.603 | 14796 | 10872 | 0.735 | 0.08 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.816 | 16463 | 16235 | 0.986 | 0.09 | |
| 7.882 | 13185 | 9486 | 0.719 | 0.07 | |
| 8.362 | 50880 | 43970 | 0.864 | 0.28 | |
| 8.441 | 11158 | 11087 | 0.994 | 0.06 | |
| 8.657 | 6277000 | 5286410 | 0.842 | 35.59 | |
| 9.007 | 15656 | 11336 | 0.724 | 0.08 | |
| 9.524 | 16632 | 9751 | 0.586 | 0.09 | |
| | 17747348 | 15593512 | | 100.000 | |

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Lab Smp Id: 1221-CAL3F  Client Smp ID: 1221-CAL3F
Inj Date : 03-MAY-2018 11:26
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 13  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.854 | 1.853 | 0.001 | 481905 | 0.50000 | 0.49 | 0.00- 20.00 | 100.00(M) | BA |
| 2.471 | 2.471 | 0.000 | 256414 | 0.50000 | 0.49 | 0.00- 20.00 | 53.21 | BA |
| 2.758 | 2.758 | 0.000 | 674836 | 0.50000 | 0.49 | 0.00- 20.00 | 140.04 | BA |
| 2.861 | 2.860 | 0.001 | 533613 | 0.50000 | 0.48 | 0.00- 20.00 | 110.73 | BA |
| 2.924 | 2.923 | 0.001 | 1641425 | 0.50000 | 0.49 | 0.00- 20.00 | 340.61 | BA |
| Average of Peak Amounts = | | | | | 0.48800 | | | |

QC Flag Legend

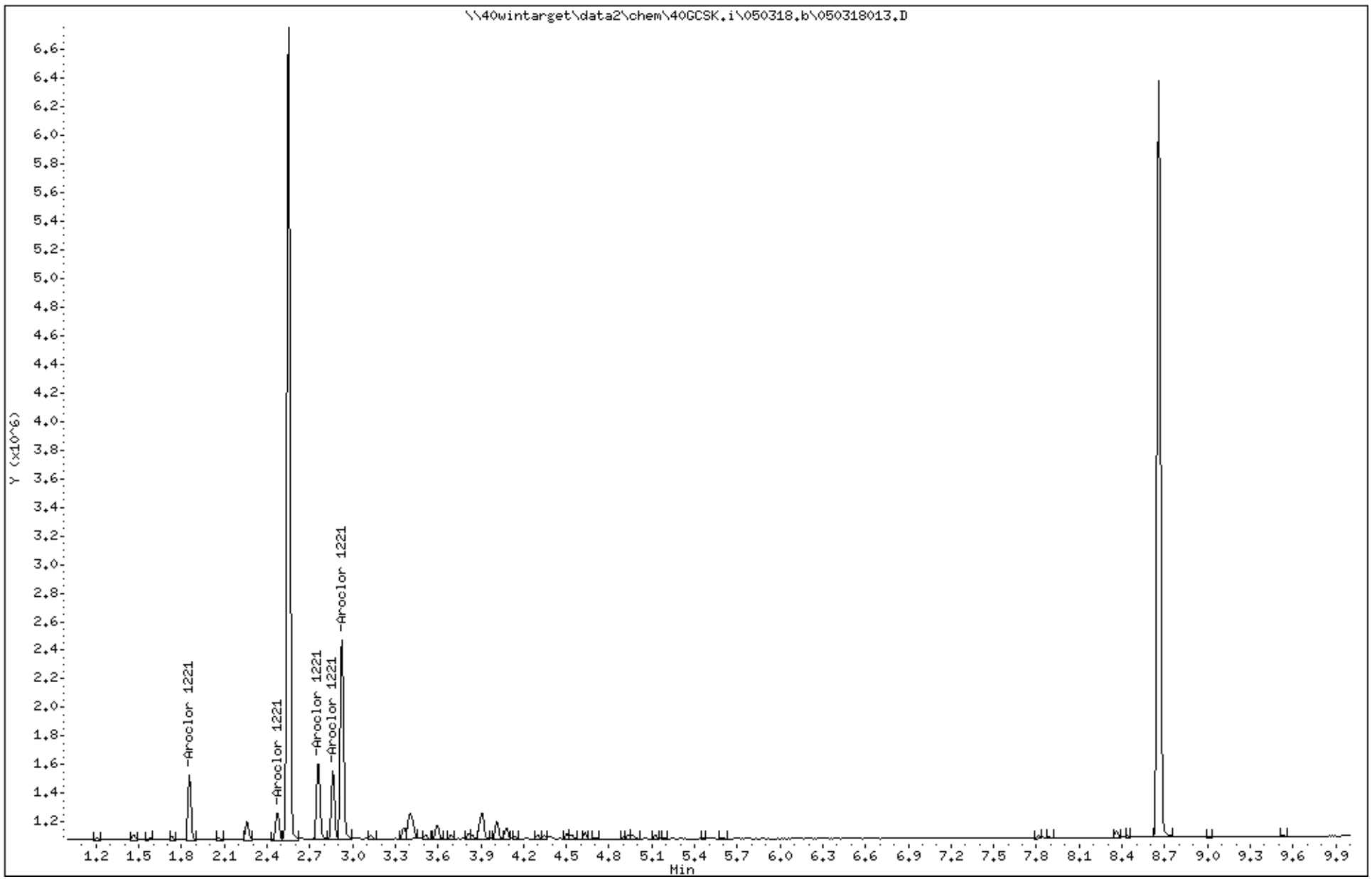
M - Compound response manually integrated.

Review Codes Legend

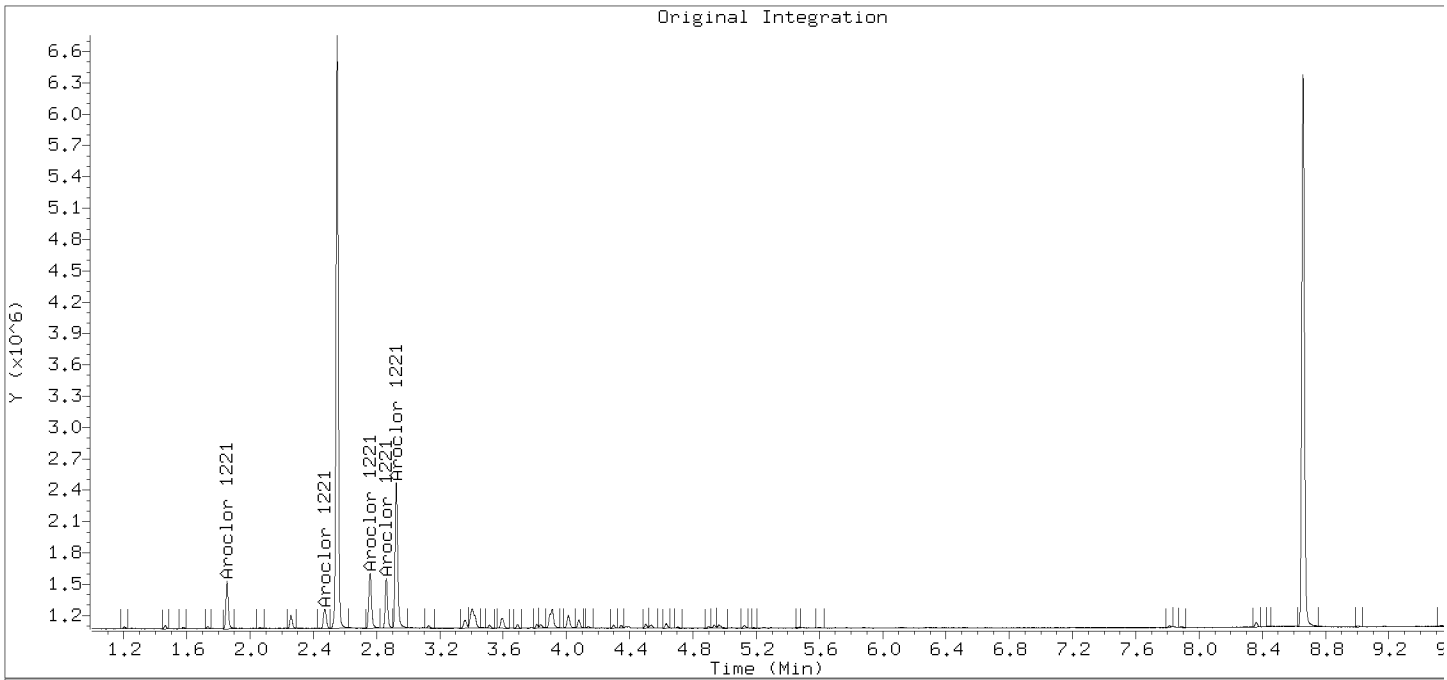
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

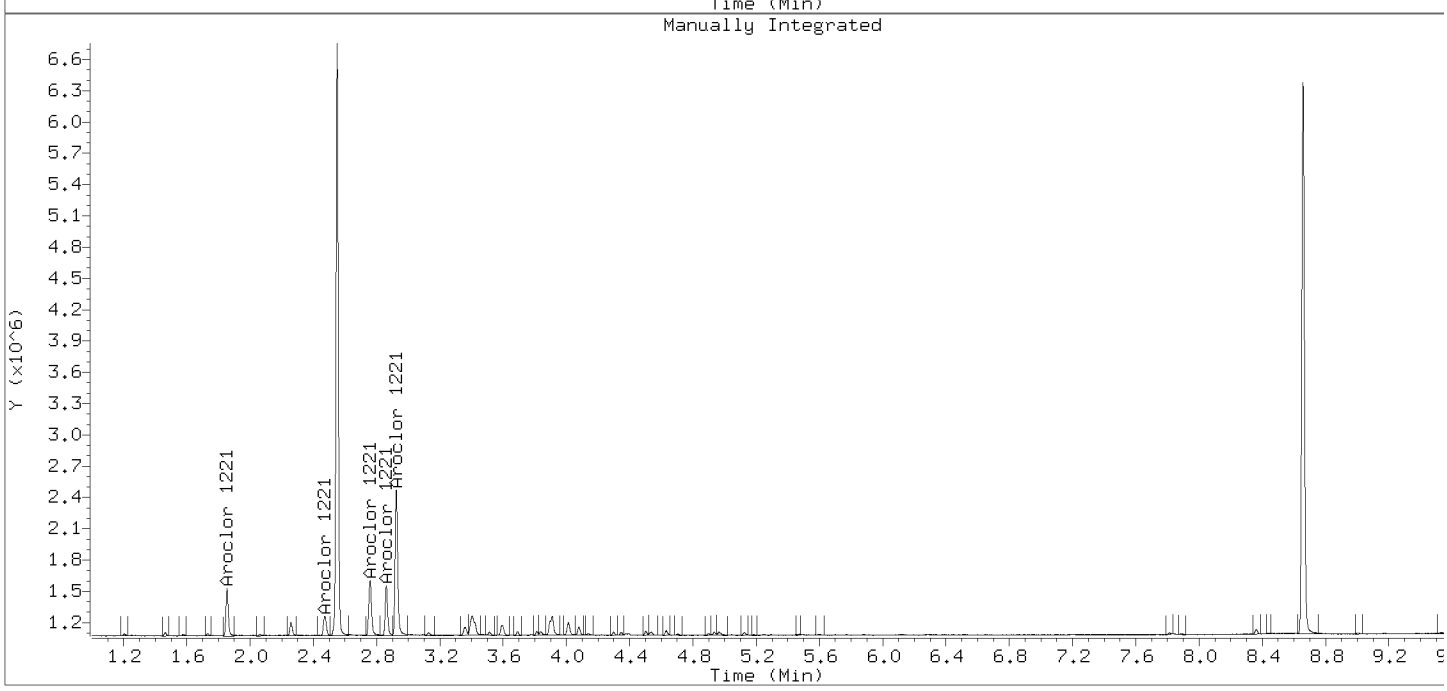
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Date : 03-MAY-2018 11:26
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSK.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318013.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL3F




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 472180 | 481905 | BA |
| Aroclor 1221 | 472180 | 481905 | BA |
| Aroclor 1221 | 472180 | 481905 | BA |
| Aroclor 1221 | 472180 | 481905 | BA |
| Aroclor 1221 | 472180 | 481905 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Lab Smp Id: 1221-CAL4F  Client Smp ID: 1221-CAL4F
Inj Date : 03-MAY-2018 11:42
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 15  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.463 | 62467 | 66238 | 1.060 | 0.19 | | |
| 1.577 | 26051 | 25516 | 0.979 | 0.07 | | |
| 1.730 | 11290 | 10326 | 0.915 | 0.03 | | |
| 1.853 | 756562 | 738586 | 0.976 | 2.31 | 1 Aroclor 1221 | BA |
| 2.219 | 12921 | 12941 | 1.002 | 0.03 | | |
| 2.257 | 231878 | 210040 | 0.906 | 0.70 | | |
| 2.472 | 394357 | 296324 | 0.751 | 1.20 | 1 Aroclor 1221 | BA |
| 2.550 | 11288202 | 11424781 | 1.012 | 34.55 | | |
| 2.758 | 1098103 | 858329 | 0.782 | 3.36 | 1 Aroclor 1221 | BA |
| 2.861 | 869721 | 816147 | 0.938 | 2.66 | 1 Aroclor 1221 | BA |
| 2.924 | 2585980 | 2210668 | 0.855 | 7.91 | 1 Aroclor 1221 | BA |
| 3.128 | 60750 | 49829 | 0.820 | 0.18 | | |
| 3.359 | 175040 | 128039 | 0.731 | 0.53 | | |
| 3.405 | 636597 | 303154 | 0.476 | 1.94 | | |
| 3.516 | 62193 | 48496 | 0.780 | 0.19 | | |
| 3.592 | 221136 | 160872 | 0.727 | 0.67 | | |
| 3.692 | 64160 | 62683 | 0.977 | 0.19 | | |
| 3.780 | 15778 | 13689 | 0.868 | 0.04 | | |
| 3.815 | 56416 | 55340 | 0.981 | 0.17 | | |
| 3.840 | 59542 | 52540 | 0.882 | 0.18 | | |
| 3.910 | 503386 | 285084 | 0.566 | 1.54 | | |
| 4.013 | 244221 | 198357 | 0.812 | 0.74 | | |
| 4.079 | 147817 | 123761 | 0.837 | 0.45 | | |
| 4.143 | 28267 | 21855 | 0.773 | 0.08 | | |
| 4.299 | 55729 | 51223 | 0.919 | 0.17 | | |
| 4.346 | 53118 | 46707 | 0.879 | 0.16 | | |
| 4.378 | 20471 | 22789 | 1.113 | 0.06 | | |
| 4.395 | 30581 | 26863 | 0.878 | 0.09 | | |
| 4.504 | 64159 | 61344 | 0.956 | 0.19 | | |
| 4.535 | 72614 | 48748 | 0.671 | 0.22 | | |
| 4.633 | 79409 | 71021 | 0.894 | 0.24 | | |
| 4.706 | 16859 | 17941 | 1.064 | 0.05 | | |
| 4.901 | 27717 | 27556 | 0.994 | 0.08 | | |
| 4.936 | 52627 | 48127 | 0.914 | 0.16 | | |
| 4.966 | 67579 | 46275 | 0.685 | 0.20 | | |
| 5.126 | 56098 | 44136 | 0.787 | 0.17 | | |
| 5.188 | 12589 | 11361 | 0.902 | 0.03 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.246 | 9993 | 8997 | 0.900 | 0.03 | |
| 5.298 | 15256 | 9429 | 0.618 | 0.04 | |
| 5.492 | 11243 | 11808 | 1.050 | 0.03 | |
| 5.597 | 18404 | 17450 | 0.948 | 0.05 | |
| 6.111 | 12044 | 9193 | 0.763 | 0.03 | |
| 7.816 | 40556 | 33381 | 0.823 | 0.12 | |
| 7.889 | 17529 | 16837 | 0.961 | 0.05 | |
| 8.361 | 97115 | 87685 | 0.903 | 0.29 | |
| 8.609 | 12181 | 8121 | 0.667 | 0.03 | |
| 8.657 | 12181936 | 10656717 | 0.875 | 37.53 | |
| 9.009 | 9866 | 9243 | 0.937 | 0.03 | |
| 9.175 | 16151 | 12564 | 0.778 | 0.04 | |
| | 32664658 | 29579111 | | 100.000 | |

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Lab Smp Id: 1221-CAL4F  Client Smp ID: 1221-CAL4F
Inj Date : 03-MAY-2018 11:42
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 15  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 756561 | 0.80000 | 0.76 | 0.00- 20.00 | 100.00(M) | BA |
| 2.471 | 2.471 | 0.000 | 394356 | 0.80000 | 0.75 | 0.00- 20.00 | 52.12 | BA |
| 2.758 | 2.758 | 0.000 | 1098103 | 0.80000 | 0.79 | 0.00- 20.00 | 145.14 | BA |
| 2.860 | 2.860 | 0.000 | 869720 | 0.80000 | 0.79 | 0.00- 20.00 | 114.96 | BA |
| 2.923 | 2.923 | 0.000 | 2585979 | 0.80000 | 0.77 | 0.00- 20.00 | 341.81 | BA |
| Average of Peak Amounts = | | | | | 0.77200 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

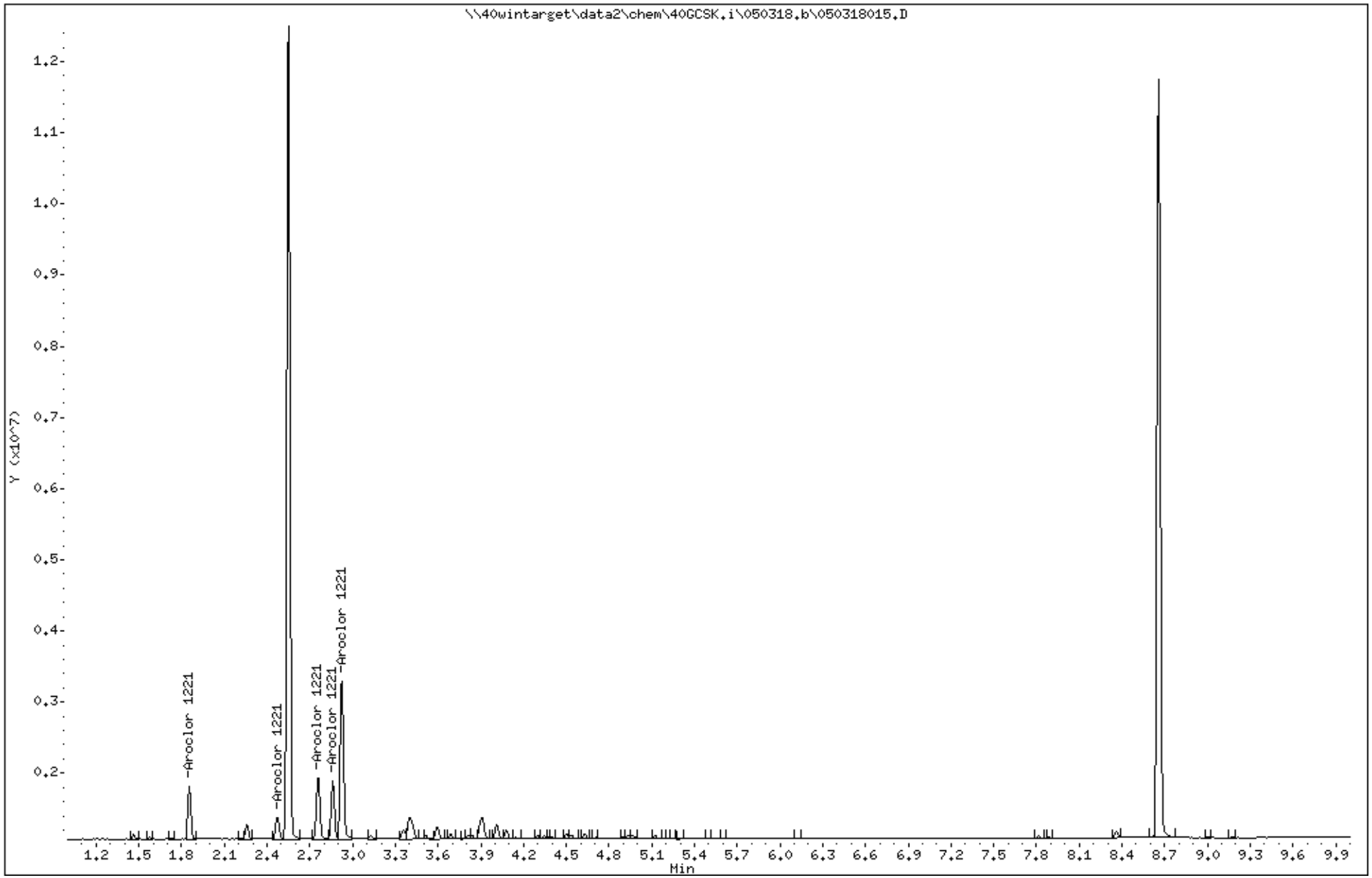
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Date : 03-MAY-2018 11:42
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

Instrument: 40GCSK.i

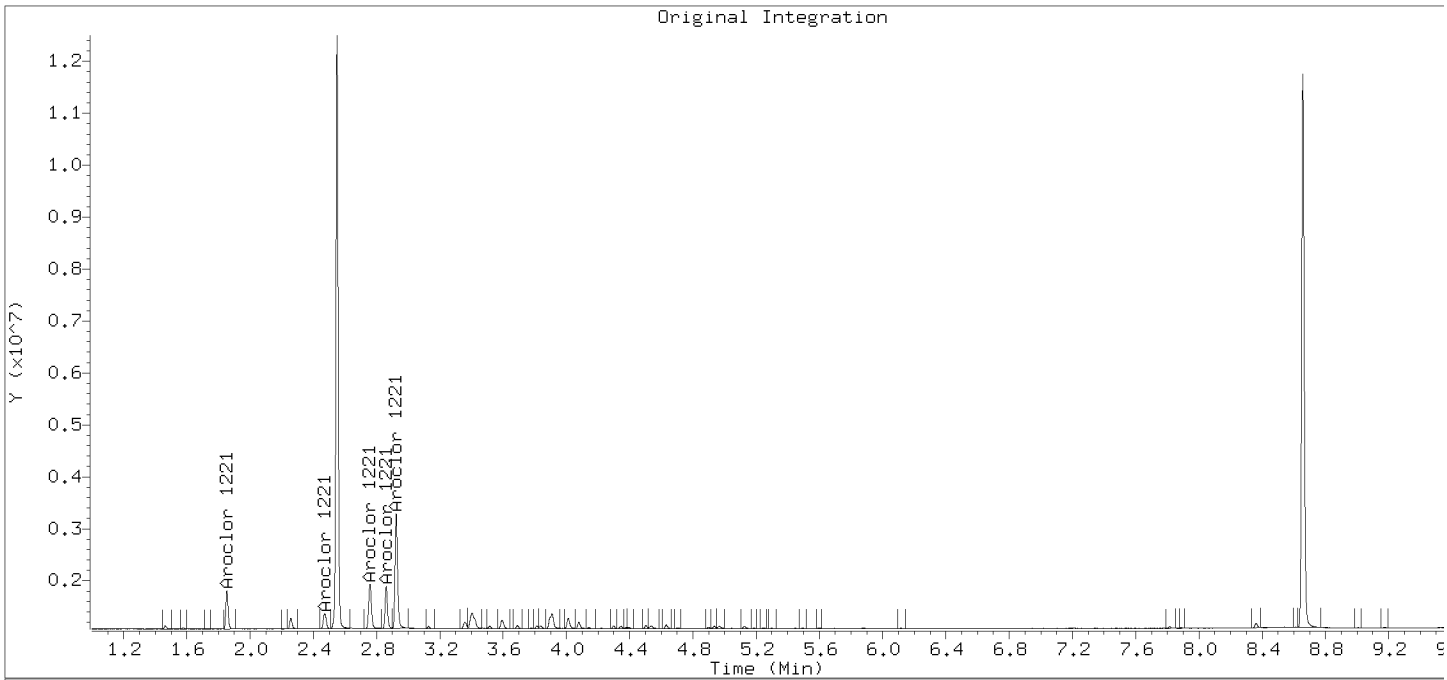
Operator: BLM

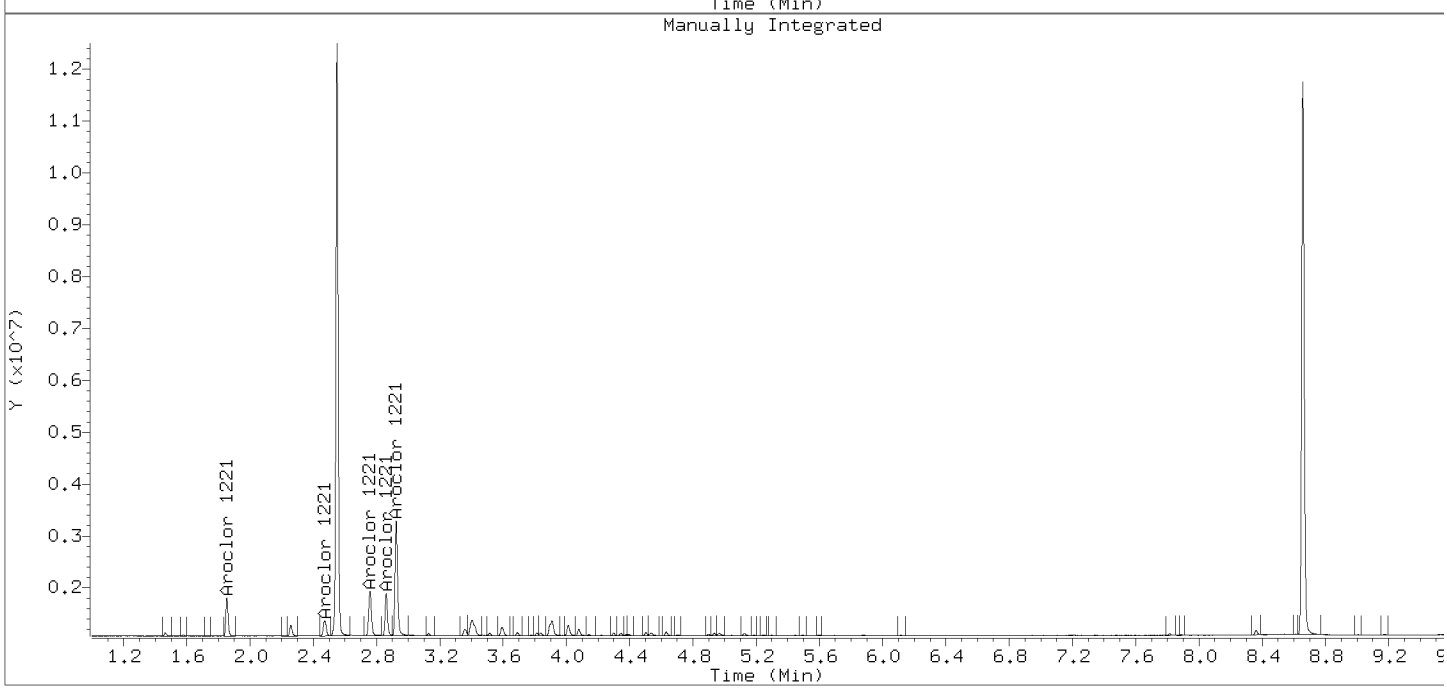
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318015.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL4F




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 747603 | 756561 | BA |
| Aroclor 1221 | 747603 | 756561 | BA |
| Aroclor 1221 | 747603 | 756561 | BA |
| Aroclor 1221 | 747603 | 756561 | BA |
| Aroclor 1221 | 747603 | 756561 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318017.D
Lab Smp Id: 1221-CAL5F  Client Smp ID: 1221-CAL5F
Inj Date : 03-MAY-2018 11:58
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 17  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.466 | 86560 | 81752 | 0.944 | 0.18 | | |
| 1.577 | 39981 | 32917 | 0.823 | 0.08 | | |
| 1.733 | 10376 | 9083 | 0.875 | 0.02 | | |
| 1.854 | 912984 | 845196 | 0.926 | 1.97 | 1 Aroclor 1221 | BA |
| 2.224 | 14589 | 13442 | 0.921 | 0.03 | | |
| 2.259 | 277307 | 247450 | 0.892 | 0.60 | | |
| 2.472 | 478737 | 363321 | 0.759 | 1.03 | 1 Aroclor 1221 | BA |
| 2.550 | 16718686 | 16635185 | 0.995 | 36.18 | | |
| 2.759 | 1331974 | 1029492 | 0.773 | 2.88 | 1 Aroclor 1221 | BA |
| 2.861 | 1092035 | 987709 | 0.904 | 2.36 | 1 Aroclor 1221 | BA |
| 2.924 | 3158163 | 2670312 | 0.846 | 6.83 | 1 Aroclor 1221 | BA |
| 3.128 | 74815 | 64604 | 0.864 | 0.16 | | |
| 3.297 | 14440 | 11619 | 0.805 | 0.03 | | |
| 3.360 | 217927 | 159104 | 0.730 | 0.47 | | |
| 3.404 | 774497 | 376517 | 0.486 | 1.67 | | |
| 3.515 | 71613 | 59951 | 0.837 | 0.15 | | |
| 3.593 | 263073 | 193439 | 0.735 | 0.56 | | |
| 3.691 | 97068 | 94111 | 0.970 | 0.21 | | |
| 3.779 | 18742 | 15965 | 0.852 | 0.04 | | |
| 3.813 | 68362 | 67240 | 0.984 | 0.14 | | |
| 3.839 | 77597 | 66854 | 0.862 | 0.16 | | |
| 3.911 | 645632 | 358639 | 0.555 | 1.39 | | |
| 4.012 | 311461 | 238156 | 0.765 | 0.67 | | |
| 4.079 | 188073 | 150402 | 0.800 | 0.40 | | |
| 4.143 | 26765 | 22877 | 0.855 | 0.05 | | |
| 4.223 | 15326 | 11394 | 0.743 | 0.03 | | |
| 4.298 | 68487 | 60898 | 0.889 | 0.14 | | |
| 4.345 | 60487 | 57376 | 0.949 | 0.13 | | |
| 4.376 | 24787 | 26528 | 1.070 | 0.05 | | |
| 4.396 | 35273 | 30592 | 0.867 | 0.07 | | |
| 4.503 | 75102 | 72176 | 0.961 | 0.16 | | |
| 4.537 | 81805 | 59014 | 0.721 | 0.17 | | |
| 4.632 | 100269 | 88196 | 0.880 | 0.21 | | |
| 4.701 | 27850 | 23190 | 0.833 | 0.06 | | |
| 4.901 | 35921 | 31718 | 0.883 | 0.07 | | |
| 4.934 | 63536 | 56733 | 0.893 | 0.13 | | |
| 4.966 | 77843 | 55444 | 0.712 | 0.16 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.044 | 13246 | 8199 | 0.619 | 0.02 | |
| 5.126 | 68865 | 53489 | 0.777 | 0.14 | |
| 5.184 | 19315 | 15142 | 0.784 | 0.04 | |
| 5.249 | 17014 | 14750 | 0.867 | 0.03 | |
| 5.450 | 11095 | 9958 | 0.898 | 0.02 | |
| 5.493 | 13458 | 12857 | 0.955 | 0.02 | |
| 5.535 | 9981 | 9229 | 0.925 | 0.02 | |
| 5.596 | 31210 | 20266 | 0.649 | 0.06 | |
| 7.813 | 62198 | 50143 | 0.806 | 0.13 | |
| 7.886 | 25008 | 20643 | 0.825 | 0.05 | |
| 8.361 | 157283 | 125288 | 0.797 | 0.34 | |
| 8.657 | 18075467 | 15461278 | 0.855 | 39.39 | |
| 9.003 | 17393 | 11821 | 0.680 | 0.03 | |
| 9.170 | 16926 | 15790 | 0.933 | 0.03 | |
| 9.532 | 20418 | 15024 | 0.736 | 0.04 | |
| | 46197020 | 41212473 | | 100.000 | |

Total unknown % area = 85

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318017.D
Lab Smp Id: 1221-CAL5F  Client Smp ID: 1221-CAL5F
Inj Date : 03-MAY-2018 11:58
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 17  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 912984 | 1.00000 | 0.92 | 0.00- 20.00 | 100.00(M) | BA |
| 2.471 | 2.471 | 0.000 | 478736 | 1.00000 | 0.91 | 0.00- 20.00 | 52.44 | BA |
| 2.758 | 2.758 | 0.000 | 1331974 | 1.00000 | 0.96 | 0.00- 20.00 | 145.89 | BA |
| 2.860 | 2.860 | 0.000 | 1092035 | 1.00000 | 0.99 | 0.00- 20.00 | 119.61 | BA |
| 2.924 | 2.923 | 0.001 | 3158162 | 1.00000 | 0.94 | 0.00- 20.00 | 345.92 | BA |
| Average of Peak Amounts = | | | | | 0.94400 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318017.D



Date : 03-MAY-2018 11:58

Client ID: 1221-CAL5F

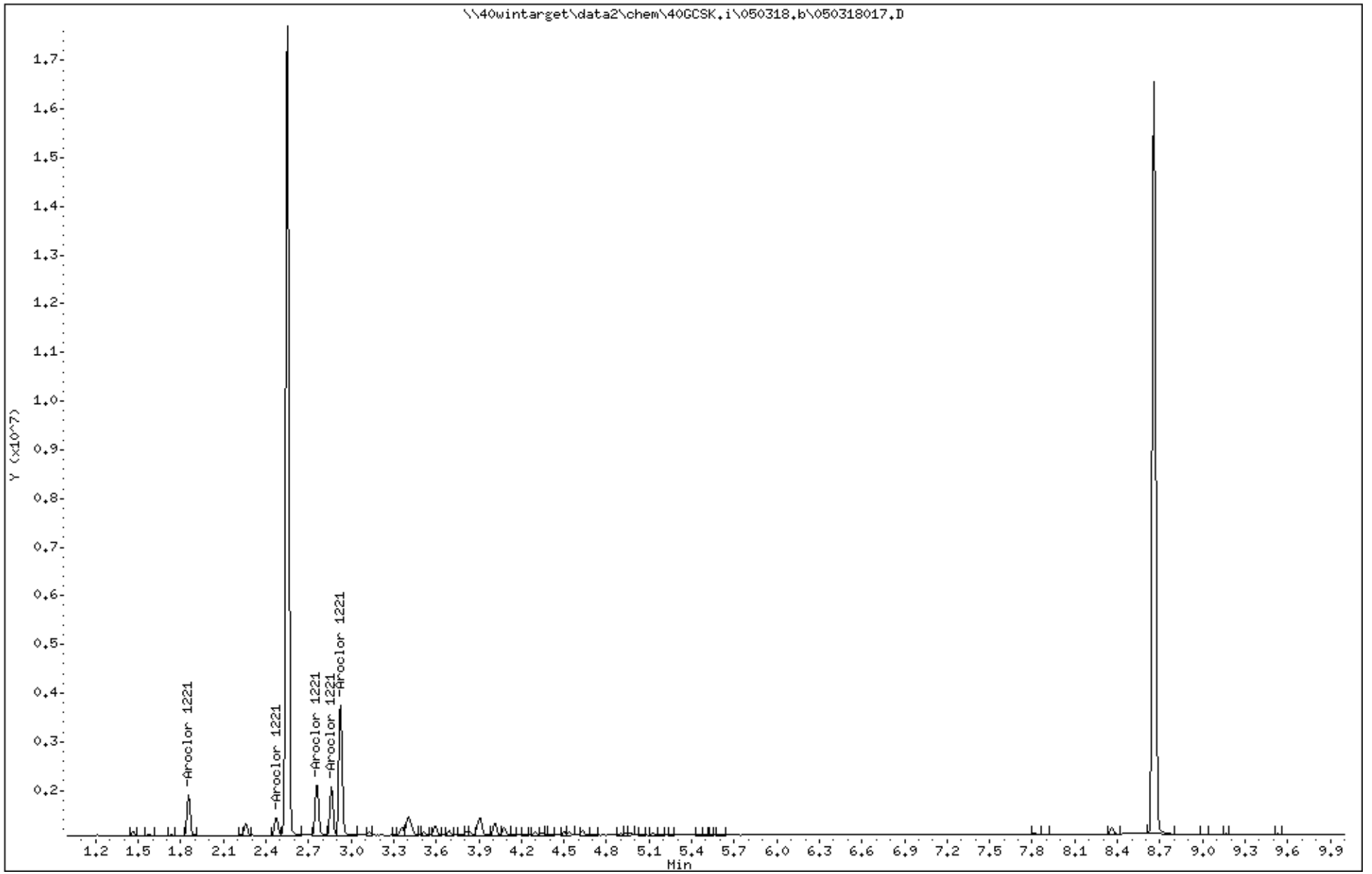
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

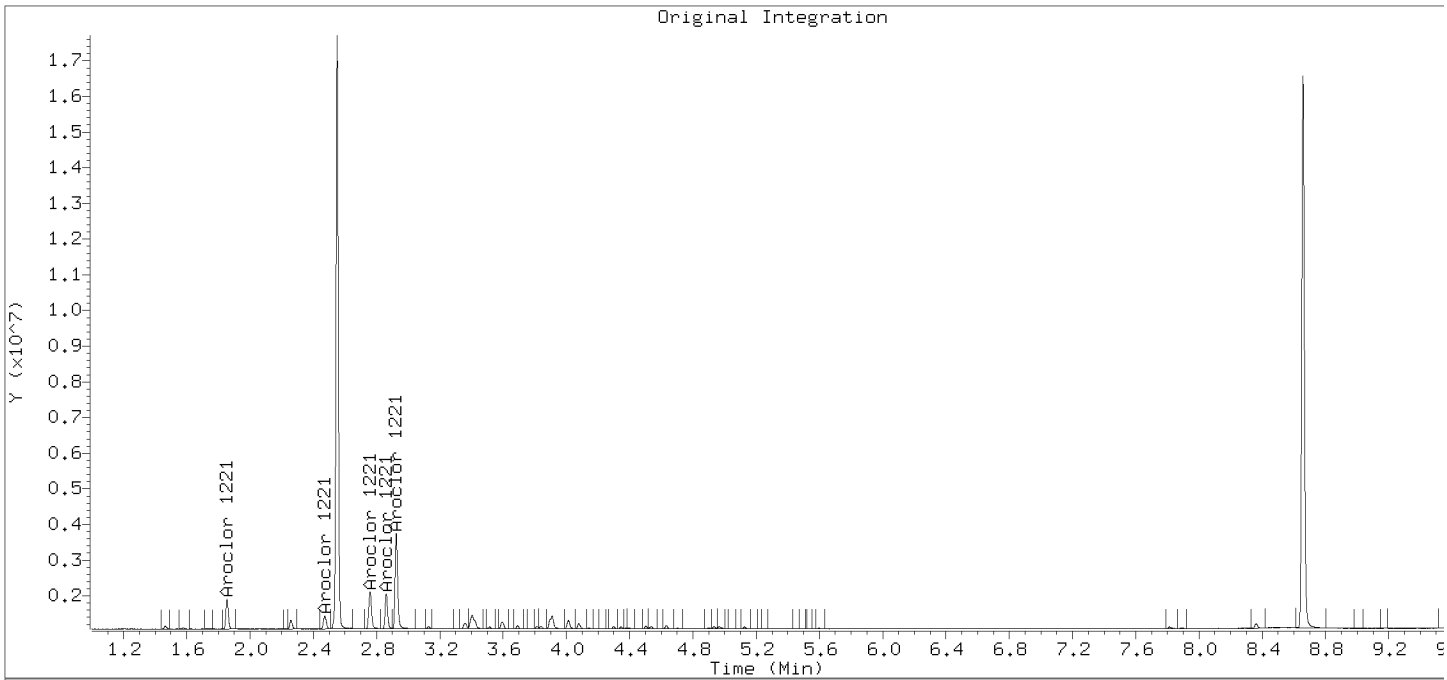
Operator: BLM

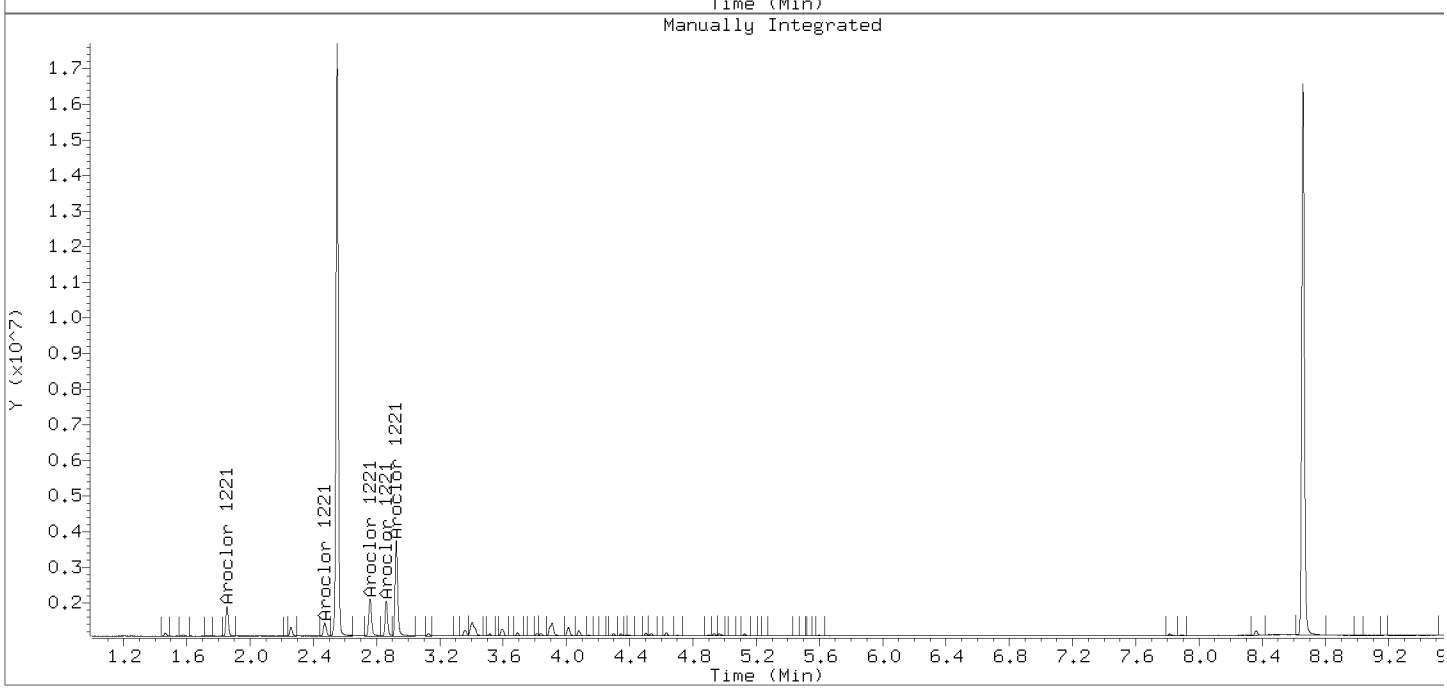
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318017.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL5F




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 902511 | 912984 | BA |
| Aroclor 1221 | 902511 | 912984 | BA |
| Aroclor 1221 | 902511 | 912984 | BA |
| Aroclor 1221 | 902511 | 912984 | BA |
| Aroclor 1221 | 902511 | 912984 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318021.D
Lab Smp Id: 1242-CAL1B  Client Smp ID: 1242-CAL1B
Inj Date : 03-MAY-2018 12:30
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 21  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.206 | 28923 | 26707 | 0.923 | 0.32 | | |
| 1.459 | 9632 | 9382 | 0.974 | 0.10 | | |
| 1.732 | 13274 | 11233 | 0.846 | 0.14 | | |
| 2.060 | 21942 | 17112 | 0.780 | 0.24 | | |
| 2.471 | 28874 | 20912 | 0.724 | 0.32 | | |
| 2.550 | 1241580 | 1224246 | 0.986 | 13.84 | | |
| 2.755 | 40894 | 27872 | 0.682 | 0.45 | | |
| 2.861 | 57849 | 50217 | 0.868 | 0.64 | | |
| 2.924 | 199748 | 172754 | 0.865 | 2.22 | | |
| 3.089 | 13266 | 8445 | 0.637 | 0.14 | | |
| 3.130 | 32248 | 28628 | 0.888 | 0.35 | | |
| 3.395 | 271317 | 260313 | 0.959 | 3.02 | 3 Aroclor 1242 | BA |
| 3.422 | 183524 | 157383 | 0.858 | 2.04 | | |
| 3.515 | 49142 | 39067 | 0.795 | 0.54 | | |
| 3.594 | 279895 | 195275 | 0.698 | 3.12 | 3 Aroclor 1242 | BA |
| 3.689 | 13802 | 11163 | 0.809 | 0.15 | | |
| 3.812 | 66845 | 61399 | 0.919 | 0.74 | | |
| 3.837 | 51079 | 41417 | 0.811 | 0.56 | | |
| 3.909 | 795170 | 434020 | 0.546 | 8.86 | 3 Aroclor 1242 | BA |
| 4.013 | 348234 | 264164 | 0.759 | 3.88 | 3 Aroclor 1242 | BA |
| 4.079 | 243610 | 190571 | 0.782 | 2.71 | 3 Aroclor 1242 | BA |
| 4.142 | 79723 | 65365 | 0.820 | 0.88 | | |
| 4.219 | 30879 | 24808 | 0.803 | 0.34 | | |
| 4.298 | 195636 | 179445 | 0.917 | 2.18 | | |
| 4.344 | 188510 | 168351 | 0.893 | 2.10 | | |
| 4.376 | 77092 | 77957 | 1.011 | 0.85 | | |
| 4.395 | 103701 | 91361 | 0.881 | 1.15 | | |
| 4.502 | 248244 | 230717 | 0.929 | 2.76 | | |
| 4.538 | 205347 | 149242 | 0.727 | 2.29 | | |
| 4.631 | 326747 | 282958 | 0.866 | 3.64 | | |
| 4.704 | 81807 | 67879 | 0.830 | 0.91 | | |
| 4.813 | 20086 | 15358 | 0.765 | 0.22 | | |
| 4.852 | 22144 | 17239 | 0.778 | 0.24 | | |
| 4.899 | 146228 | 132095 | 0.903 | 1.63 | | |
| 4.934 | 259483 | 228798 | 0.882 | 2.89 | | |
| 4.966 | 366167 | 235747 | 0.644 | 4.08 | | |
| 5.045 | 55419 | 31825 | 0.574 | 0.61 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.125 | 277452 | 220766 | 0.796 | 3.09 | |
| 5.185 | 63840 | 53648 | 0.840 | 0.71 | |
| 5.249 | 77207 | 63161 | 0.818 | 0.86 | |
| 5.298 | 60288 | 48702 | 0.808 | 0.67 | |
| 5.397 | 15325 | 11239 | 0.733 | 0.17 | |
| 5.450 | 46837 | 38790 | 0.828 | 0.52 | |
| 5.493 | 77000 | 62709 | 0.814 | 0.85 | |
| 5.533 | 50710 | 41227 | 0.813 | 0.56 | |
| 5.596 | 124819 | 95128 | 0.762 | 1.39 | |
| 5.692 | 35815 | 31910 | 0.891 | 0.39 | |
| 5.766 | 10751 | 7935 | 0.738 | 0.11 | |
| 5.881 | 73757 | 60061 | 0.814 | 0.82 | |
| 6.115 | 57504 | 48345 | 0.841 | 0.64 | |
| 6.386 | 20851 | 19433 | 0.932 | 0.23 | |
| 6.511 | 10706 | 9610 | 0.898 | 0.11 | |
| 7.836 | 17050 | 11648 | 0.683 | 0.19 | |
| 8.358 | 10844 | 11178 | 1.031 | 0.12 | |
| 8.439 | 12445 | 13462 | 1.082 | 0.13 | |
| 8.658 | 1502675 | 1268700 | 0.844 | 17.07 | |
| 8.995 | 9809 | 9381 | 0.956 | 0.10 | |
| 9.525 | 11499 | 9427 | 0.820 | 0.12 | |
| | 8965247 | 7387885 | | 100.000 | |

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318021.D
Lab Smp Id: 1242-CAL1B  Client Smp ID: 1242-CAL1B
Inj Date : 03-MAY-2018 12:30
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 21  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 271317 | 0.10000 | 0.11 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 279895 | 0.10000 | 0.11 | 0.00- 20.00 | 103.16 | BA |
| 3.908 | 3.909 | -0.001 | 795169 | 0.10000 | 0.11 | 0.00- 20.00 | 293.08 | BA |
| 4.012 | 4.011 | 0.001 | 348234 | 0.10000 | 0.11 | 0.00- 20.00 | 128.35 | BA |
| 4.078 | 4.078 | 0.000 | 243609 | 0.10000 | 0.12 | 0.00- 20.00 | 89.79 | BA |
| Average of Peak Amounts = | | | | | 0.11200 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318021.D



Date : 03-MAY-2018 12:30

Client ID: 1242-CAL1B

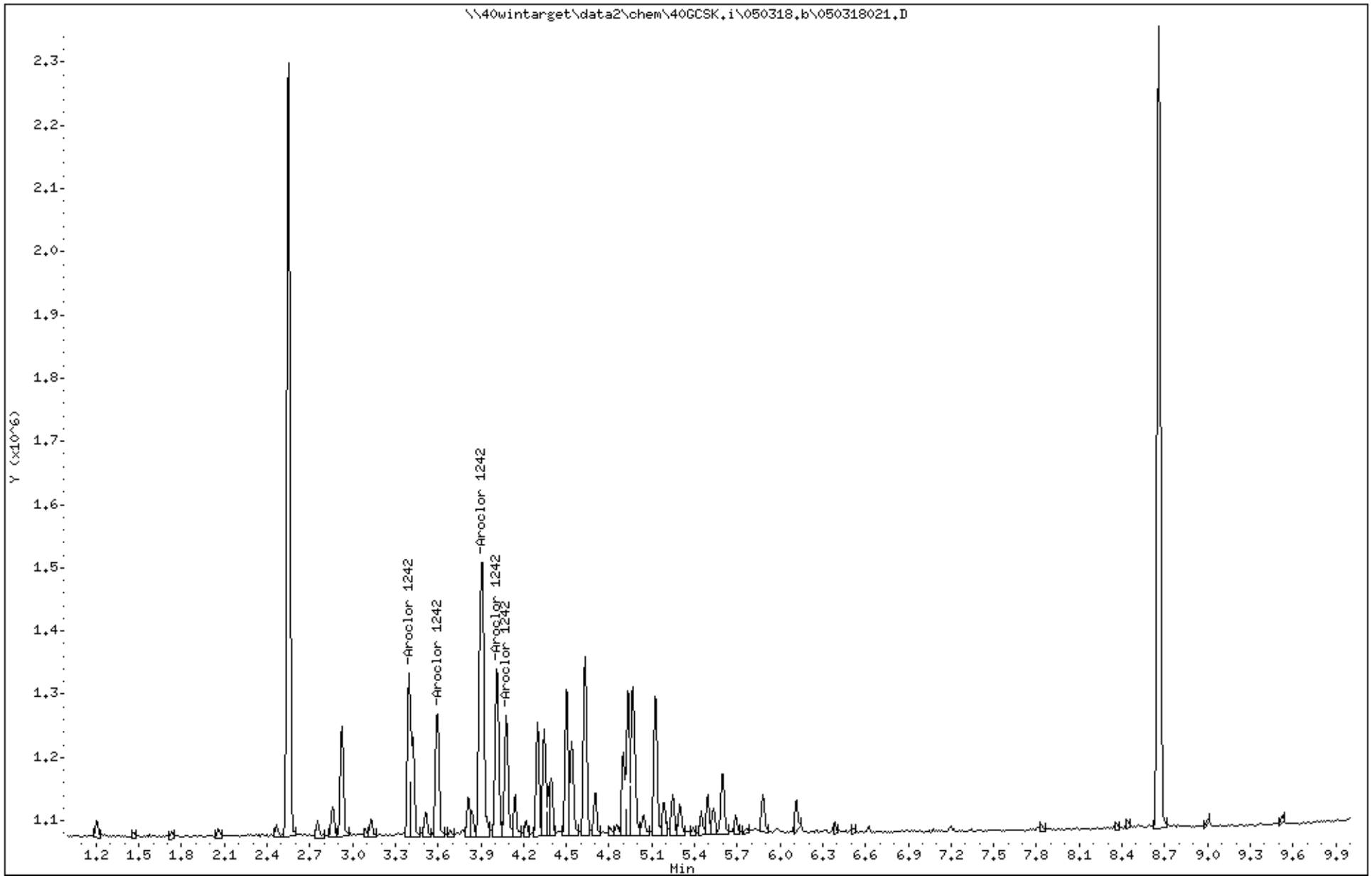
Instrument: 40GCSK.i

Sample Info: 1242-CAL1B, 188132:1

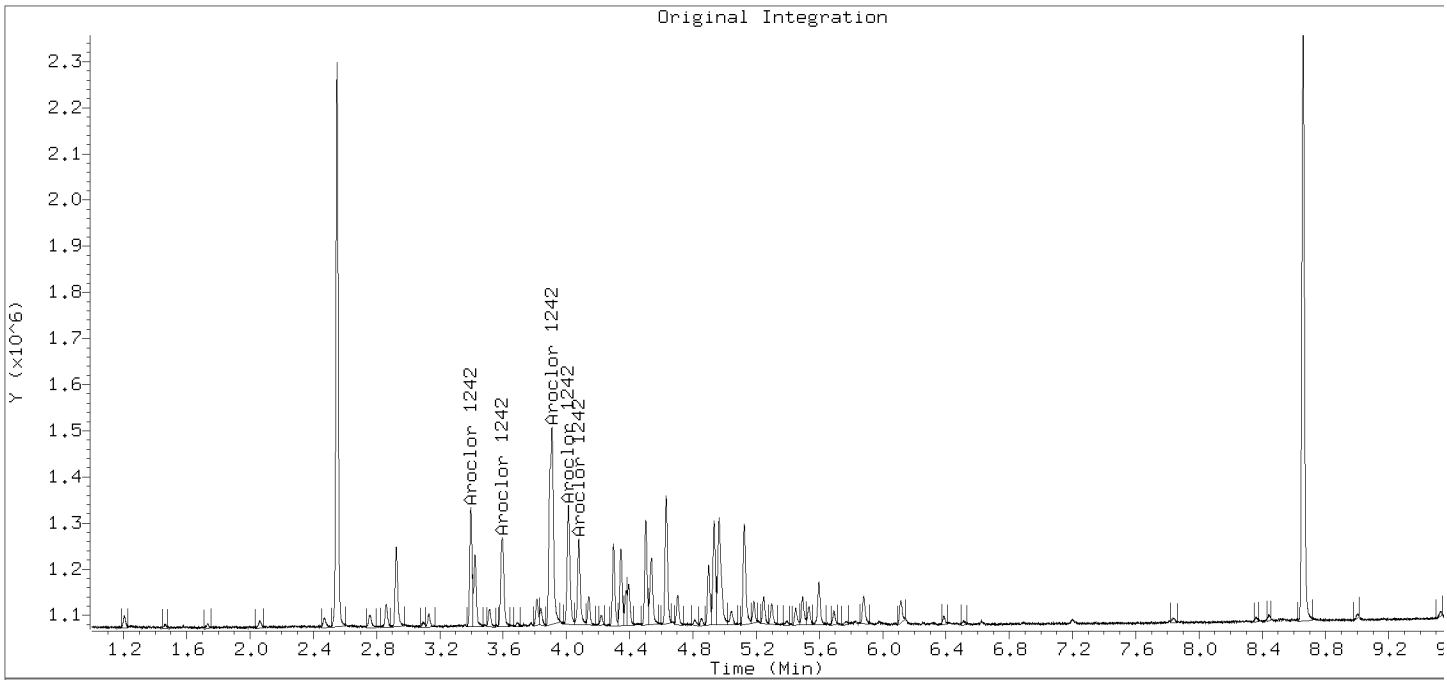
Operator: BLM

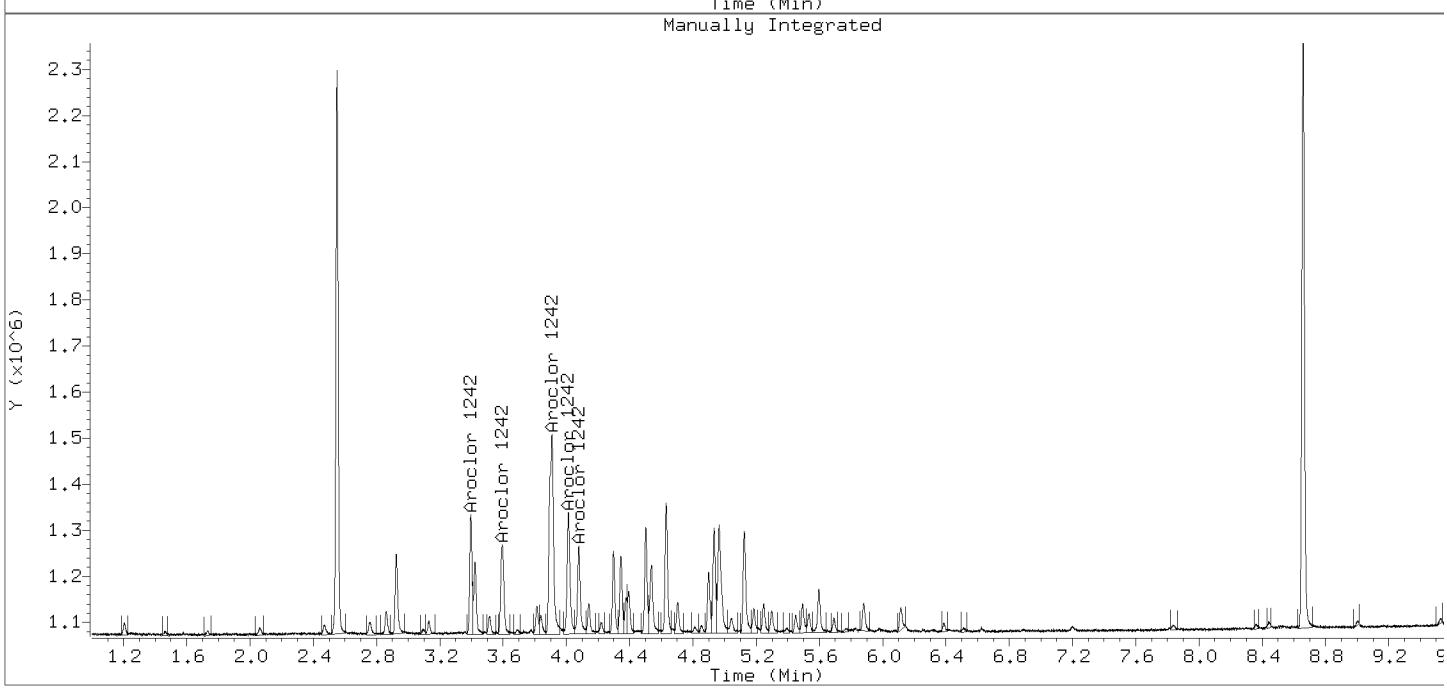
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318021.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 12:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL1B




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 266630 | 271317 | BA |
| Aroclor 1242 | 266630 | 271317 | BA |
| Aroclor 1242 | 266630 | 271317 | BA |
| Aroclor 1242 | 266630 | 271317 | BA |
| Aroclor 1242 | 266630 | 271317 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D
Lab Smp Id: 1242-CAL2B  Client Smp ID: 1242-CAL2B
Inj Date : 03-MAY-2018 12:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 23  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.464 | 14649 | 15739 | 1.074 | 0.08 | | |
| 2.471 | 49423 | 37457 | 0.758 | 0.30 | | |
| 2.549 | 2274190 | 2222826 | 0.977 | 13.92 | | |
| 2.757 | 59298 | 49463 | 0.834 | 0.36 | | |
| 2.861 | 107792 | 93917 | 0.871 | 0.65 | | |
| 2.924 | 366074 | 319100 | 0.872 | 2.24 | | |
| 3.132 | 50688 | 50684 | 1.000 | 0.31 | | |
| 3.395 | 511437 | 486930 | 0.952 | 3.13 | 3 Aroclor 1242 | BA |
| 3.422 | 318299 | 275470 | 0.865 | 1.94 | | |
| 3.514 | 85914 | 73436 | 0.855 | 0.52 | | |
| 3.593 | 505755 | 368238 | 0.728 | 3.09 | 3 Aroclor 1242 | BA |
| 3.691 | 22124 | 18783 | 0.849 | 0.13 | | |
| 3.777 | 16683 | 16635 | 0.997 | 0.10 | | |
| 3.814 | 123024 | 120611 | 0.980 | 0.75 | | |
| 3.837 | 88882 | 77056 | 0.867 | 0.54 | | |
| 3.909 | 1526951 | 816465 | 0.535 | 9.34 | 3 Aroclor 1242 | BA |
| 4.013 | 659070 | 511954 | 0.777 | 4.03 | 3 Aroclor 1242 | BA |
| 4.079 | 424297 | 353933 | 0.834 | 2.59 | 3 Aroclor 1242 | BA |
| 4.142 | 143319 | 119948 | 0.837 | 0.87 | | |
| 4.220 | 62202 | 46612 | 0.749 | 0.38 | | |
| 4.298 | 354644 | 321469 | 0.906 | 2.17 | | |
| 4.345 | 340647 | 310741 | 0.912 | 2.08 | | |
| 4.376 | 140407 | 148902 | 1.061 | 0.85 | | |
| 4.394 | 193845 | 168490 | 0.869 | 1.18 | | |
| 4.502 | 464985 | 444742 | 0.956 | 2.84 | | |
| 4.536 | 380571 | 278161 | 0.731 | 2.33 | | |
| 4.631 | 635535 | 550241 | 0.866 | 3.89 | | |
| 4.703 | 153958 | 127794 | 0.830 | 0.94 | | |
| 4.811 | 31602 | 24748 | 0.783 | 0.19 | | |
| 4.853 | 39201 | 31885 | 0.813 | 0.24 | | |
| 4.898 | 274672 | 249543 | 0.909 | 1.68 | | |
| 4.933 | 489492 | 440913 | 0.901 | 2.99 | | |
| 4.965 | 672761 | 440577 | 0.655 | 4.11 | | |
| 5.044 | 93138 | 59818 | 0.642 | 0.57 | | |
| 5.124 | 531689 | 441678 | 0.831 | 3.25 | | |
| 5.185 | 114607 | 95023 | 0.829 | 0.70 | | |
| 5.247 | 140589 | 118672 | 0.844 | 0.86 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.299 | 110275 | 87745 | 0.796 | 0.67 | |
| 5.397 | 30678 | 20747 | 0.676 | 0.18 | |
| 5.450 | 88312 | 70267 | 0.796 | 0.54 | |
| 5.493 | 143071 | 117784 | 0.823 | 0.87 | |
| 5.532 | 100118 | 80380 | 0.803 | 0.61 | |
| 5.596 | 236337 | 177146 | 0.750 | 1.44 | |
| 5.693 | 83735 | 58663 | 0.701 | 0.51 | |
| 5.825 | 25687 | 18045 | 0.703 | 0.15 | |
| 5.880 | 164087 | 121672 | 0.742 | 1.00 | |
| 5.976 | 20814 | 17140 | 0.823 | 0.12 | |
| 6.112 | 156951 | 103114 | 0.657 | 0.96 | |
| 6.386 | 46408 | 38183 | 0.823 | 0.28 | |
| 6.624 | 20340 | 14708 | 0.723 | 0.12 | |
| 8.365 | 23916 | 20703 | 0.866 | 0.14 | |
| 8.657 | 2607844 | 2201280 | 0.844 | 16.20 | |
| 9.528 | 12008 | 8829 | 0.735 | 0.07 | |
| | 16332993 | 13485060 | | 100.000 | |

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D
Lab Smp Id: 1242-CAL2B  Client Smp ID: 1242-CAL2B
Inj Date : 03-MAY-2018 12:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 23  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 511437 | 0.20000 | 0.21 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 505754 | 0.20000 | 0.20 | 0.00- 20.00 | 98.89 | BA |
| 3.909 | 3.909 | 0.000 | 1526951 | 0.20000 | 0.21 | 0.00- 20.00 | 298.56 | BA |
| 4.012 | 4.011 | 0.001 | 659069 | 0.20000 | 0.21 | 0.00- 20.00 | 128.87 | BA |
| 4.079 | 4.078 | 0.001 | 424296 | 0.20000 | 0.20 | 0.00- 20.00 | 82.96 | BA |
| Average of Peak Amounts = | | | | | 0.20600 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D



Date : 03-MAY-2018 12:47

Client ID: 1242-CAL2B

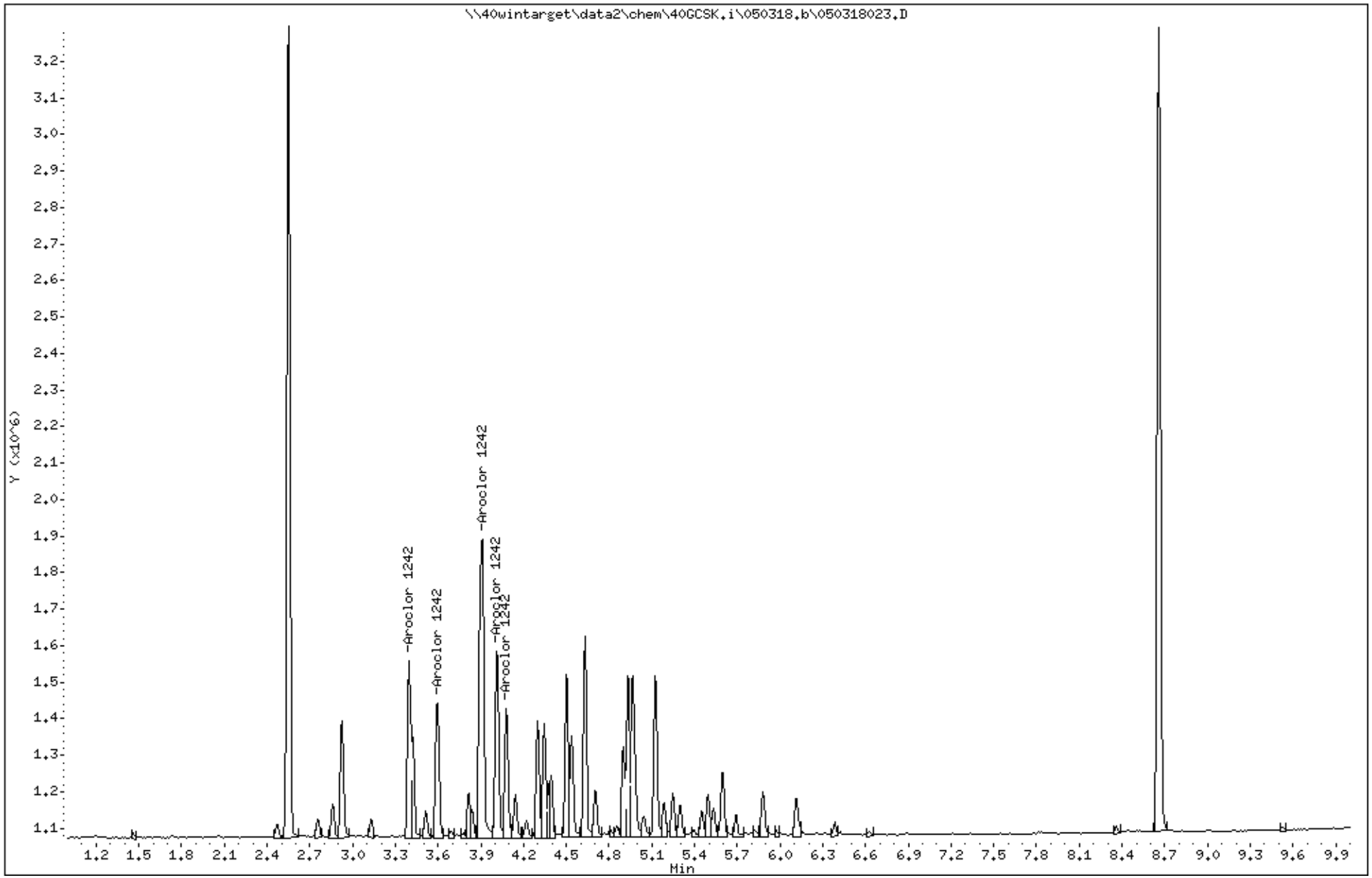
Instrument: 40GCSK.i

Sample Info: 1242-CAL2B, 185543:1

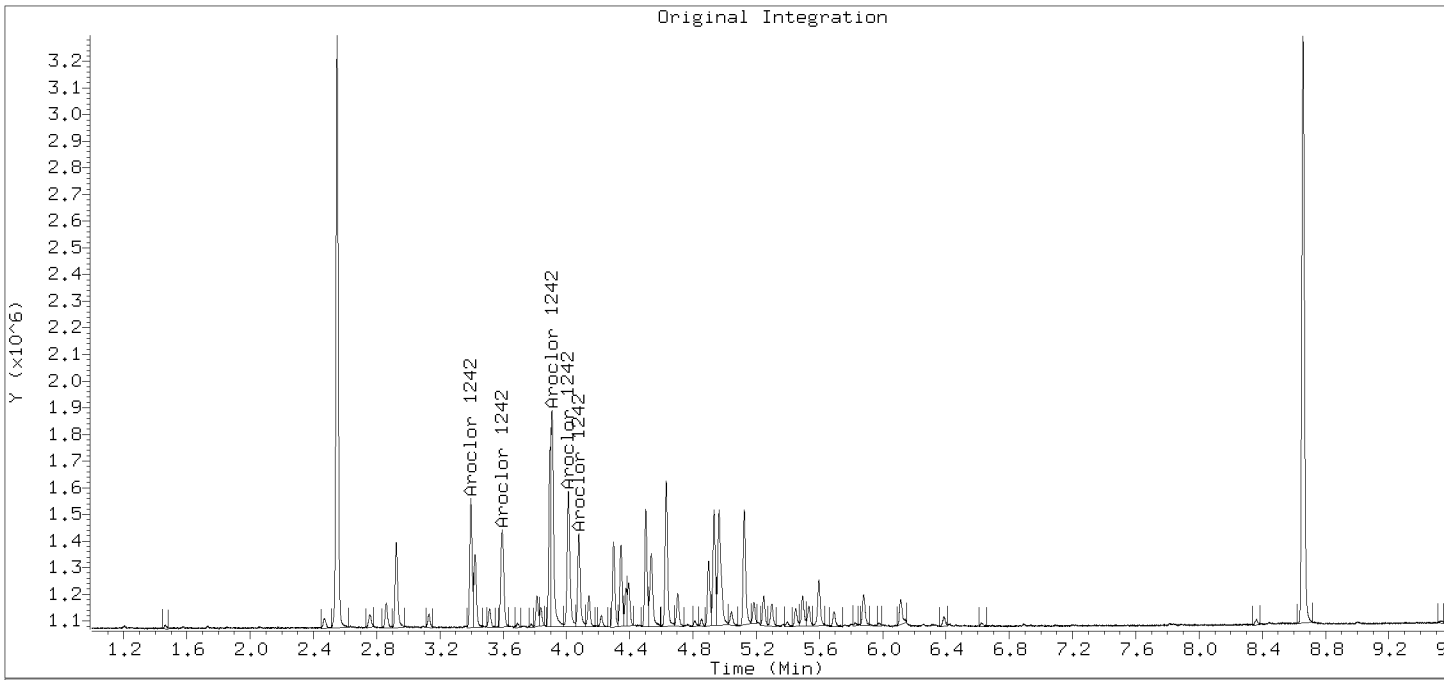
Operator: BLM

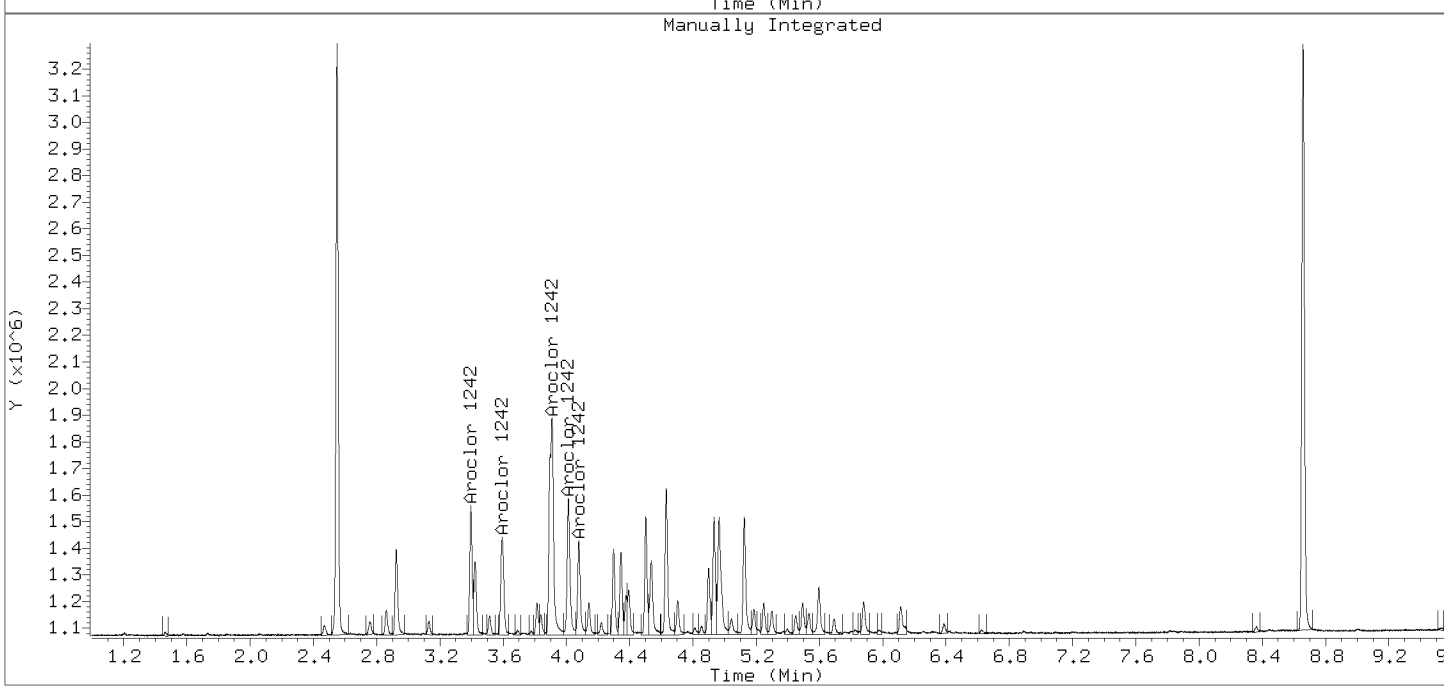
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318023.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 12:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL2B




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 505159 | 511437 | BA |
| Aroclor 1242 | 505159 | 511437 | BA |
| Aroclor 1242 | 505159 | 511437 | BA |
| Aroclor 1242 | 505159 | 511437 | BA |
| Aroclor 1242 | 505159 | 511437 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Lab Smp Id: 1242-CAL3B  Client Smp ID: 1242-CAL3B
Inj Date : 03-MAY-2018 13:03
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 25  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.464 | 36109 | 29390 | 0.814 | 0.09 | | |
| 1.577 | 17570 | 13264 | 0.755 | 0.04 | | |
| 1.732 | 22565 | 22197 | 0.984 | 0.05 | | |
| 1.853 | 15636 | 12674 | 0.811 | 0.04 | | |
| 2.470 | 107240 | 85034 | 0.793 | 0.27 | | |
| 2.550 | 5373427 | 5272608 | 0.981 | 13.88 | | |
| 2.757 | 160252 | 120751 | 0.754 | 0.41 | | |
| 2.861 | 240218 | 219994 | 0.916 | 0.62 | | |
| 2.924 | 854724 | 776167 | 0.908 | 2.20 | | |
| 3.131 | 122467 | 113514 | 0.927 | 0.31 | | |
| 3.357 | 16829 | 13693 | 0.814 | 0.04 | | |
| 3.396 | 1187004 | 1105235 | 0.931 | 3.06 | 3 Aroclor 1242 | BA |
| 3.422 | 733284 | 656098 | 0.895 | 1.89 | | |
| 3.514 | 200804 | 168597 | 0.840 | 0.51 | | |
| 3.594 | 1206783 | 859165 | 0.712 | 3.11 | 3 Aroclor 1242 | BA |
| 3.692 | 42963 | 38085 | 0.886 | 0.11 | | |
| 3.777 | 33371 | 31077 | 0.931 | 0.08 | | |
| 3.813 | 293567 | 275041 | 0.937 | 0.75 | | |
| 3.838 | 215591 | 179729 | 0.834 | 0.55 | | |
| 3.909 | 3526828 | 1931596 | 0.548 | 9.11 | 3 Aroclor 1242 | BA |
| 4.013 | 1515409 | 1175144 | 0.775 | 3.91 | 3 Aroclor 1242 | BA |
| 4.078 | 1011699 | 870189 | 0.860 | 2.61 | 3 Aroclor 1242 | BA |
| 4.143 | 314271 | 264691 | 0.842 | 0.81 | | |
| 4.221 | 122545 | 103040 | 0.841 | 0.31 | | |
| 4.299 | 833210 | 768589 | 0.922 | 2.15 | | |
| 4.345 | 796259 | 756180 | 0.950 | 2.05 | | |
| 4.377 | 331660 | 342105 | 1.031 | 0.85 | | |
| 4.394 | 432589 | 393337 | 0.909 | 1.11 | | |
| 4.503 | 1080671 | 1019980 | 0.944 | 2.79 | | |
| 4.538 | 903231 | 652746 | 0.723 | 2.33 | | |
| 4.631 | 1465573 | 1258714 | 0.859 | 3.78 | | |
| 4.705 | 339379 | 294063 | 0.866 | 0.87 | | |
| 4.765 | 25178 | 22205 | 0.882 | 0.06 | | |
| 4.813 | 72301 | 56258 | 0.778 | 0.18 | | |
| 4.854 | 83279 | 69878 | 0.839 | 0.21 | | |
| 4.899 | 667021 | 629728 | 0.944 | 1.72 | | |
| 4.933 | 1168358 | 1092256 | 0.935 | 3.01 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.965 | 1578281 | 1091812 | 0.692 | 4.07 | |
| 5.045 | 188576 | 133516 | 0.708 | 0.48 | |
| 5.125 | 1264080 | 1092087 | 0.864 | 3.26 | |
| 5.185 | 289128 | 218852 | 0.757 | 0.74 | |
| 5.248 | 320707 | 274094 | 0.855 | 0.82 | |
| 5.298 | 246629 | 204208 | 0.828 | 0.63 | |
| 5.396 | 60762 | 45527 | 0.749 | 0.15 | |
| 5.450 | 213121 | 170450 | 0.800 | 0.55 | |
| 5.494 | 340669 | 279806 | 0.821 | 0.88 | |
| 5.533 | 223238 | 186005 | 0.833 | 0.57 | |
| 5.597 | 567142 | 429627 | 0.758 | 1.46 | |
| 5.692 | 169309 | 142761 | 0.843 | 0.43 | |
| 5.761 | 22636 | 14758 | 0.652 | 0.05 | |
| 5.801 | 33667 | 25404 | 0.755 | 0.08 | |
| 5.826 | 44942 | 38892 | 0.865 | 0.11 | |
| 5.879 | 404335 | 301417 | 0.745 | 1.04 | |
| 5.979 | 60372 | 36140 | 0.599 | 0.15 | |
| 6.075 | 12373 | 11271 | 0.911 | 0.03 | |
| 6.113 | 327320 | 277646 | 0.848 | 0.84 | |
| 6.139 | 71329 | 59581 | 0.835 | 0.18 | |
| 6.257 | 15396 | 15571 | 1.011 | 0.03 | |
| 6.387 | 104225 | 90323 | 0.867 | 0.26 | |
| 6.422 | 21426 | 21350 | 0.996 | 0.05 | |
| 6.460 | 12735 | 12216 | 0.959 | 0.03 | |
| 6.627 | 37715 | 31071 | 0.824 | 0.09 | |
| 6.888 | 23492 | 19668 | 0.837 | 0.06 | |
| 7.092 | 11128 | 10293 | 0.925 | 0.02 | |
| 7.200 | 12925 | 11083 | 0.857 | 0.03 | |
| 7.339 | 9974 | 8312 | 0.833 | 0.02 | |
| 7.812 | 12761 | 13476 | 1.056 | 0.03 | |
| 7.833 | 14388 | 11470 | 0.797 | 0.03 | |
| 7.887 | 10128 | 9106 | 0.899 | 0.02 | |
| 8.360 | 57092 | 43847 | 0.768 | 0.14 | |
| 8.441 | 36772 | 23983 | 0.652 | 0.09 | |
| 8.658 | 6190065 | 5253397 | 0.849 | 16.41 | |
| 9.002 | 49566 | 33389 | 0.674 | 0.12 | |
| 9.528 | 69980 | 44330 | 0.633 | 0.18 | |
| | 38698250 | 32379751 | | 100.000 | |

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Lab Smp Id: 1242-CAL3B  Client Smp ID: 1242-CAL3B
Inj Date : 03-MAY-2018 13:03
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 25  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1187003 | 0.50000 | 0.49 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1206782 | 0.50000 | 0.49 | 0.00- 20.00 | 101.67 | BA |
| 3.908 | 3.909 | -0.001 | 3526828 | 0.50000 | 0.49 | 0.00- 20.00 | 297.12 | BA |
| 4.012 | 4.011 | 0.001 | 1515408 | 0.50000 | 0.49 | 0.00- 20.00 | 127.67 | BA |
| 4.077 | 4.078 | -0.001 | 1011699 | 0.50000 | 0.48 | 0.00- 20.00 | 85.23 | BA |
| Average of Peak Amounts = | | | | | 0.48800 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

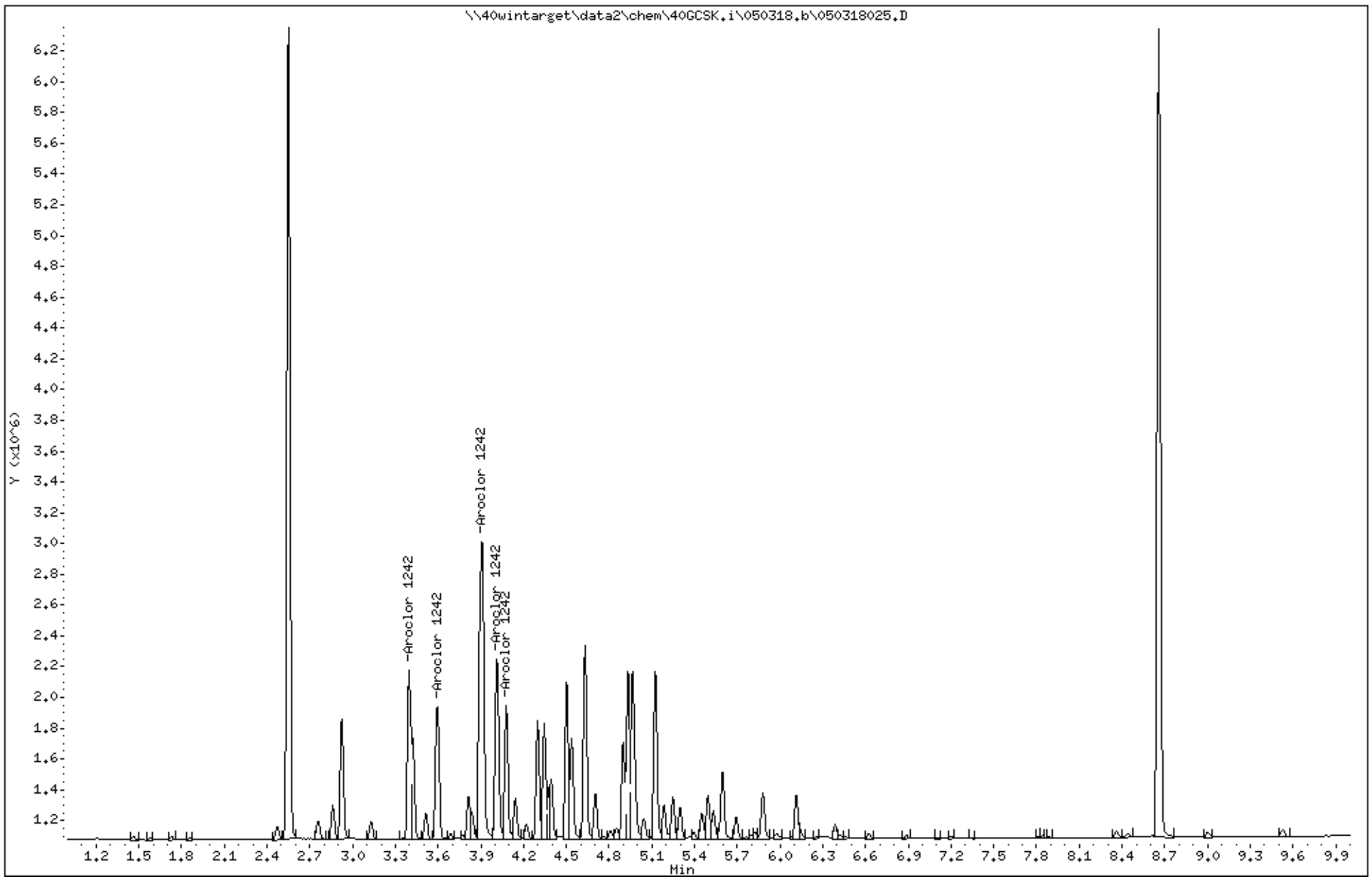
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Date : 03-MAY-2018 13:03
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

Instrument: 40GCSK.i

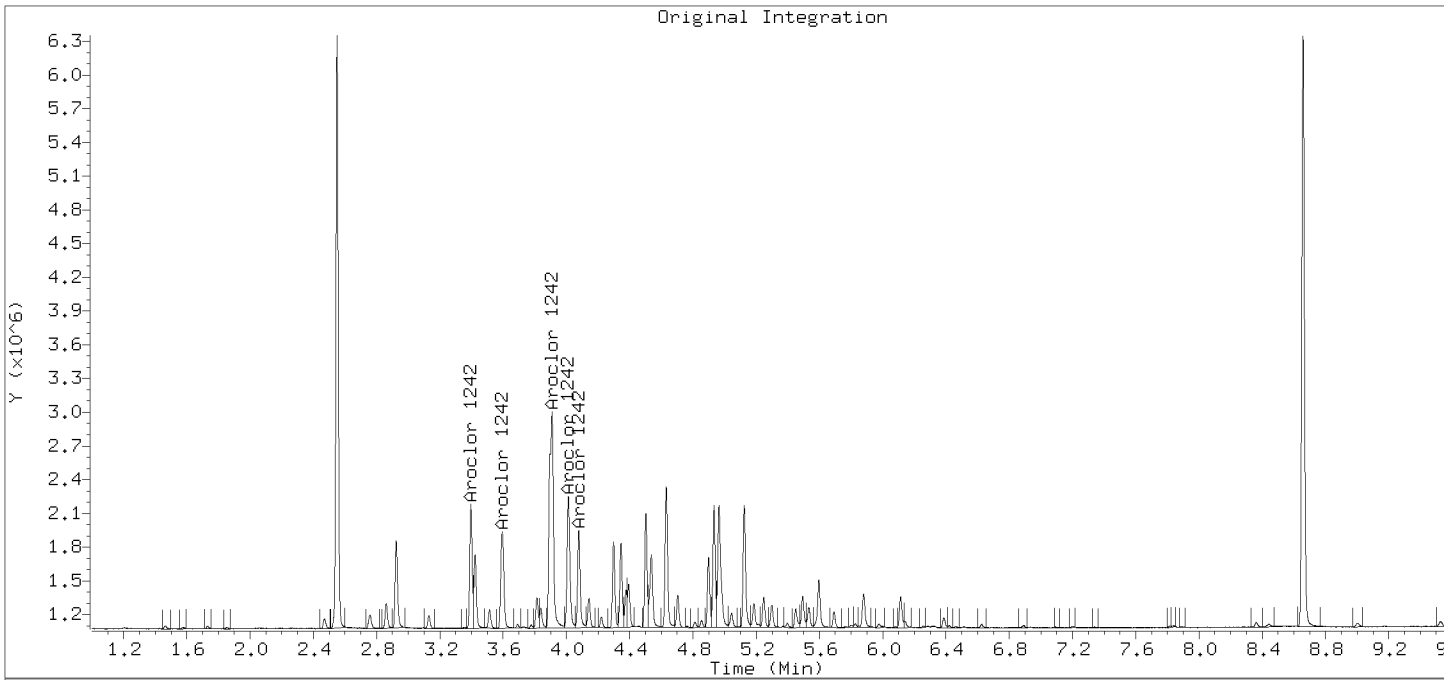
Operator: BLM

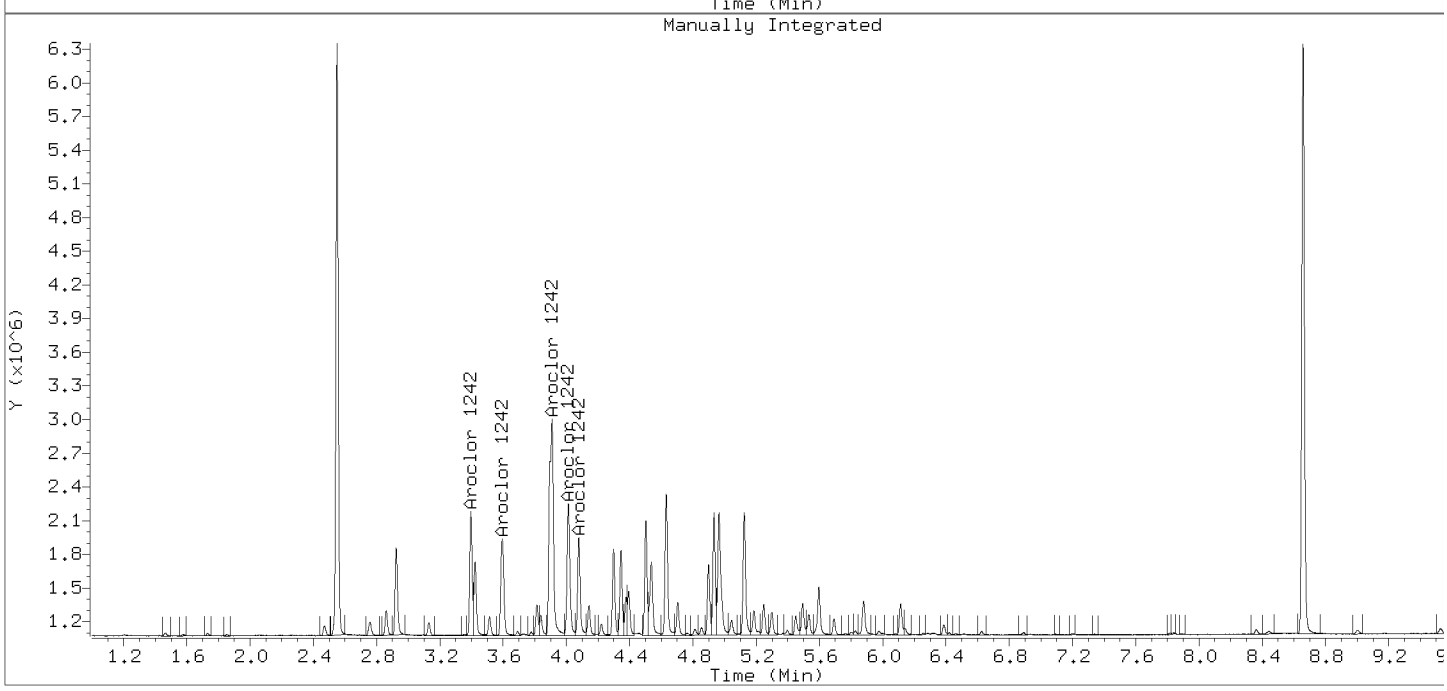
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318025.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:03 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL3B




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 1180166 | 1187003 | BA |
| Aroclor 1242 | 1180166 | 1187003 | BA |
| Aroclor 1242 | 1180166 | 1187003 | BA |
| Aroclor 1242 | 1180166 | 1187003 | BA |
| Aroclor 1242 | 1180166 | 1187003 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D
Lab Smp Id: 1242-CAL4B  Client Smp ID: 1242-CAL4B
Inj Date : 03-MAY-2018 13:19
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 27  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.465 | 60514 | 55156 | 0.911 | 0.09 | | |
| 1.575 | 25952 | 23700 | 0.913 | 0.04 | | |
| 1.728 | 13457 | 10946 | 0.813 | 0.02 | | |
| 1.856 | 18735 | 16740 | 0.894 | 0.02 | | |
| 2.469 | 167542 | 131609 | 0.786 | 0.26 | | |
| 2.550 | 10660062 | 10587607 | 0.993 | 16.69 | | |
| 2.756 | 239331 | 183200 | 0.765 | 0.37 | | |
| 2.861 | 395829 | 362673 | 0.916 | 0.61 | | |
| 2.924 | 1337379 | 1200613 | 0.898 | 2.09 | | |
| 3.130 | 191519 | 181482 | 0.948 | 0.29 | | |
| 3.359 | 25907 | 20403 | 0.788 | 0.04 | | |
| 3.396 | 1787981 | 1666887 | 0.932 | 2.79 | 3 Aroclor 1242 | BA |
| 3.423 | 1136978 | 989208 | 0.870 | 1.78 | | |
| 3.514 | 304577 | 259148 | 0.851 | 0.47 | | |
| 3.594 | 1833397 | 1304804 | 0.712 | 2.87 | 3 Aroclor 1242 | BA |
| 3.691 | 74323 | 66343 | 0.893 | 0.11 | | |
| 3.726 | 28410 | 21182 | 0.746 | 0.04 | | |
| 3.777 | 49639 | 45707 | 0.921 | 0.07 | | |
| 3.812 | 447878 | 437314 | 0.976 | 0.70 | | |
| 3.838 | 323283 | 272408 | 0.843 | 0.50 | | |
| 3.909 | 5446178 | 3043624 | 0.559 | 8.52 | 3 Aroclor 1242 | BA |
| 4.012 | 2321978 | 1792602 | 0.772 | 3.63 | 3 Aroclor 1242 | BA |
| 4.078 | 1556061 | 1341784 | 0.862 | 2.43 | 3 Aroclor 1242 | BA |
| 4.142 | 478186 | 415643 | 0.869 | 0.74 | | |
| 4.221 | 188956 | 155892 | 0.825 | 0.29 | | |
| 4.298 | 1262038 | 1167731 | 0.925 | 1.97 | | |
| 4.344 | 1228678 | 1146059 | 0.933 | 1.92 | | |
| 4.377 | 506635 | 529324 | 1.045 | 0.79 | | |
| 4.393 | 691265 | 606012 | 0.877 | 1.08 | | |
| 4.459 | 36995 | 27836 | 0.752 | 0.05 | | |
| 4.502 | 1653016 | 1536700 | 0.930 | 2.58 | | |
| 4.537 | 1403894 | 986711 | 0.703 | 2.19 | | |
| 4.631 | 2232731 | 1899618 | 0.851 | 3.49 | | |
| 4.704 | 523805 | 454989 | 0.869 | 0.82 | | |
| 4.767 | 40176 | 27923 | 0.695 | 0.06 | | |
| 4.812 | 107315 | 87825 | 0.818 | 0.16 | | |
| 4.855 | 122118 | 107057 | 0.877 | 0.19 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.899 | 1033282 | 957745 | 0.927 | 1.61 | |
| 4.933 | 1804528 | 1656910 | 0.918 | 2.82 | |
| 4.964 | 2402398 | 1674801 | 0.697 | 3.76 | |
| 5.044 | 313727 | 198377 | 0.632 | 0.49 | |
| 5.124 | 1959567 | 1697502 | 0.866 | 3.06 | |
| 5.185 | 437742 | 324713 | 0.742 | 0.68 | |
| 5.247 | 490551 | 427987 | 0.872 | 0.76 | |
| 5.298 | 377637 | 318016 | 0.842 | 0.59 | |
| 5.369 | 30798 | 26768 | 0.869 | 0.04 | |
| 5.396 | 82500 | 64641 | 0.784 | 0.12 | |
| 5.450 | 306041 | 245026 | 0.801 | 0.47 | |
| 5.494 | 517930 | 446784 | 0.863 | 0.81 | |
| 5.533 | 343921 | 287631 | 0.836 | 0.53 | |
| 5.596 | 864584 | 658164 | 0.761 | 1.35 | |
| 5.691 | 252575 | 217343 | 0.861 | 0.39 | |
| 5.802 | 45108 | 35289 | 0.782 | 0.07 | |
| 5.829 | 83967 | 57099 | 0.680 | 0.13 | |
| 5.878 | 617319 | 484921 | 0.786 | 0.96 | |
| 5.977 | 87897 | 52377 | 0.596 | 0.13 | |
| 6.080 | 14635 | 16299 | 1.114 | 0.02 | |
| 6.113 | 575887 | 426889 | 0.741 | 0.90 | |
| 6.258 | 32993 | 26937 | 0.816 | 0.05 | |
| 6.316 | 39520 | 21996 | 0.557 | 0.06 | |
| 6.386 | 158251 | 137570 | 0.869 | 0.24 | |
| 6.420 | 34658 | 30860 | 0.890 | 0.05 | |
| 6.461 | 24448 | 19090 | 0.781 | 0.03 | |
| 6.625 | 63982 | 51809 | 0.810 | 0.10 | |
| 6.889 | 38833 | 32055 | 0.825 | 0.06 | |
| 6.931 | 17083 | 10823 | 0.634 | 0.02 | |
| 7.093 | 14332 | 12985 | 0.906 | 0.02 | |
| 7.341 | 13736 | 11525 | 0.839 | 0.02 | |
| 7.814 | 29645 | 27534 | 0.929 | 0.04 | |
| 7.889 | 18599 | 14104 | 0.758 | 0.02 | |
| 8.361 | 97272 | 80574 | 0.828 | 0.15 | |
| 8.657 | 11688708 | 9932087 | 0.850 | 18.66 | |
| 9.001 | 14668 | 13204 | 0.900 | 0.02 | |
| 9.169 | 12118 | 9360 | 0.772 | 0.01 | |
| | 63864158 | 53872255 | | 100.000 | |

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D
Lab Smp Id: 1242-CAL4B  Client Smp ID: 1242-CAL4B
Inj Date : 03-MAY-2018 13:19
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 27  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1787980 | 0.80000 | 0.74 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1833396 | 0.80000 | 0.74 | 0.00- 20.00 | 102.54 | BA |
| 3.908 | 3.909 | -0.001 | 5446177 | 0.80000 | 0.75 | 0.00- 20.00 | 304.60 | BA |
| 4.011 | 4.011 | 0.000 | 2321978 | 0.80000 | 0.74 | 0.00- 20.00 | 129.87 | BA |
| 4.077 | 4.078 | -0.001 | 1556061 | 0.80000 | 0.74 | 0.00- 20.00 | 87.03 | BA |
| Average of Peak Amounts = | | | | | 0.74200 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D



Date : 03-MAY-2018 13:19

Client ID: 1242-CAL4B

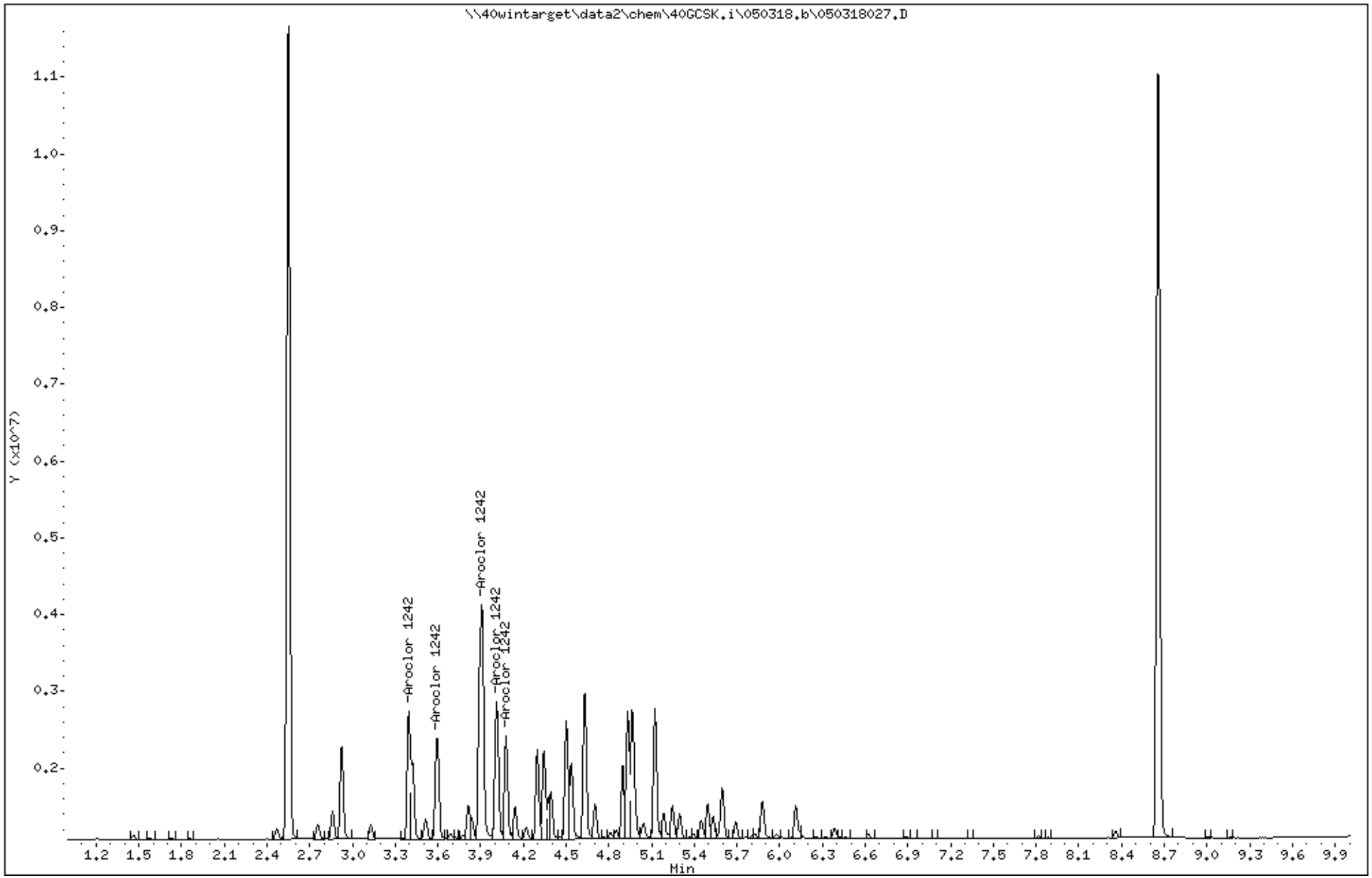
Instrument: 40GCSK.i

Sample Info: 1242-CAL4B, 185545:1

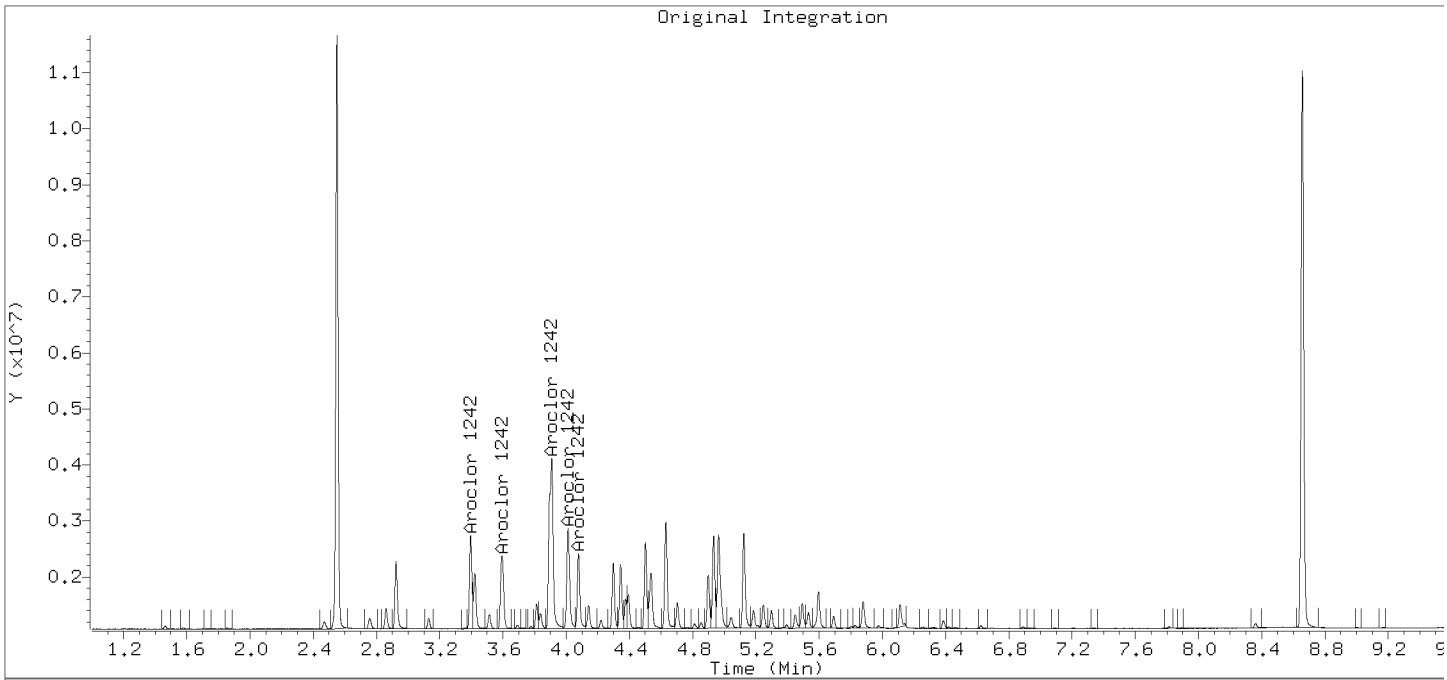
Operator: BLM

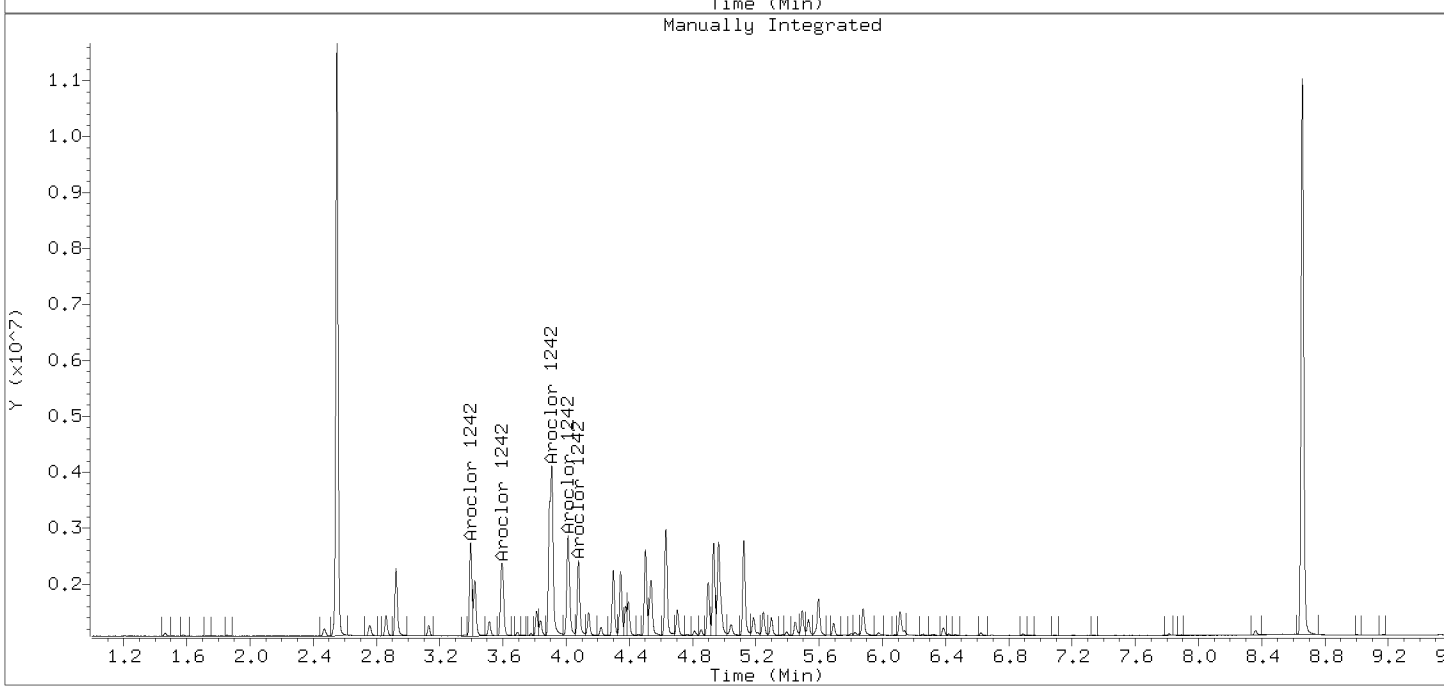
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318027.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:19 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL4B




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 1778846 | 1787980 | BA |
| Aroclor 1242 | 1778846 | 1787980 | BA |
| Aroclor 1242 | 1778846 | 1787980 | BA |
| Aroclor 1242 | 1778846 | 1787980 | BA |
| Aroclor 1242 | 1778846 | 1787980 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D
Lab Smp Id: 1242-CAL5B  Client Smp ID: 1242-CAL5B
Inj Date : 03-MAY-2018 13:35
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 29  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.464 | 87531 | 83646 | 0.956 | 0.10 | | |
| 1.578 | 35805 | 34315 | 0.958 | 0.04 | | |
| 1.732 | 15679 | 12163 | 0.776 | 0.01 | | |
| 1.855 | 24302 | 19570 | 0.805 | 0.02 | | |
| 2.471 | 203158 | 162843 | 0.802 | 0.23 | | |
| 2.550 | 16329389 | 16290698 | 0.998 | 19.04 | | |
| 2.757 | 286380 | 230287 | 0.804 | 0.33 | | |
| 2.860 | 531580 | 489727 | 0.921 | 0.62 | | |
| 2.923 | 1654046 | 1488018 | 0.900 | 1.92 | | |
| 3.130 | 254848 | 231681 | 0.909 | 0.29 | | |
| 3.359 | 31266 | 24822 | 0.794 | 0.03 | | |
| 3.395 | 2222470 | 2071587 | 0.932 | 2.59 | 3 Aroclor 1242 | BA |
| 3.422 | 1395758 | 1224845 | 0.878 | 1.62 | | |
| 3.514 | 369687 | 319496 | 0.864 | 0.43 | | |
| 3.593 | 2273072 | 1617162 | 0.711 | 2.65 | 3 Aroclor 1242 | BA |
| 3.689 | 104504 | 98296 | 0.941 | 0.12 | | |
| 3.729 | 37761 | 26071 | 0.690 | 0.04 | | |
| 3.777 | 60112 | 60157 | 1.001 | 0.07 | | |
| 3.813 | 571368 | 556940 | 0.975 | 0.66 | | |
| 3.837 | 395106 | 355294 | 0.899 | 0.46 | | |
| 3.908 | 6829835 | 3810299 | 0.558 | 7.96 | 3 Aroclor 1242 | BA |
| 4.011 | 2870213 | 2260626 | 0.788 | 3.34 | 3 Aroclor 1242 | BA |
| 4.078 | 1940441 | 1695805 | 0.874 | 2.26 | 3 Aroclor 1242 | BA |
| 4.142 | 601792 | 514929 | 0.856 | 0.70 | | |
| 4.222 | 225460 | 190516 | 0.845 | 0.26 | | |
| 4.298 | 1562298 | 1444095 | 0.924 | 1.82 | | |
| 4.345 | 1519594 | 1392967 | 0.917 | 1.77 | | |
| 4.377 | 655685 | 659586 | 1.006 | 0.76 | | |
| 4.394 | 844160 | 742636 | 0.880 | 0.98 | | |
| 4.458 | 48177 | 34398 | 0.714 | 0.05 | | |
| 4.502 | 2048545 | 1919475 | 0.937 | 2.38 | | |
| 4.538 | 1741031 | 1223200 | 0.703 | 2.03 | | |
| 4.631 | 2790019 | 2419030 | 0.867 | 3.25 | | |
| 4.704 | 653243 | 590348 | 0.904 | 0.76 | | |
| 4.765 | 53073 | 34536 | 0.651 | 0.06 | | |
| 4.813 | 132307 | 107918 | 0.816 | 0.15 | | |
| 4.854 | 150924 | 136331 | 0.903 | 0.17 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.898 | 1301368 | 1223489 | 0.940 | 1.51 | |
| 4.933 | 2251462 | 2097712 | 0.932 | 2.62 | |
| 4.964 | 2994388 | 2044109 | 0.683 | 3.49 | |
| 5.044 | 362473 | 251885 | 0.695 | 0.42 | |
| 5.124 | 2450807 | 2122958 | 0.866 | 2.85 | |
| 5.185 | 547551 | 412043 | 0.753 | 0.63 | |
| 5.247 | 617846 | 528806 | 0.856 | 0.72 | |
| 5.297 | 475698 | 395749 | 0.832 | 0.55 | |
| 5.370 | 33548 | 32346 | 0.964 | 0.03 | |
| 5.396 | 104016 | 82633 | 0.794 | 0.12 | |
| 5.450 | 377912 | 318204 | 0.842 | 0.44 | |
| 5.493 | 654122 | 560050 | 0.856 | 0.76 | |
| 5.533 | 421698 | 350354 | 0.831 | 0.49 | |
| 5.596 | 1098817 | 843400 | 0.768 | 1.28 | |
| 5.691 | 315329 | 270777 | 0.859 | 0.36 | |
| 5.760 | 23894 | 18398 | 0.770 | 0.02 | |
| 5.802 | 53052 | 45750 | 0.862 | 0.06 | |
| 5.827 | 84030 | 70693 | 0.841 | 0.09 | |
| 5.850 | 26962 | 34364 | 1.275 | 0.03 | |
| 5.878 | 774376 | 618629 | 0.799 | 0.90 | |
| 5.975 | 111151 | 64816 | 0.583 | 0.12 | |
| 6.077 | 18582 | 19337 | 1.041 | 0.02 | |
| 6.113 | 638847 | 551521 | 0.863 | 0.74 | |
| 6.141 | 135636 | 106907 | 0.788 | 0.15 | |
| 6.256 | 40211 | 34962 | 0.869 | 0.04 | |
| 6.314 | 31074 | 21731 | 0.699 | 0.03 | |
| 6.386 | 201814 | 178114 | 0.883 | 0.23 | |
| 6.423 | 44627 | 35217 | 0.789 | 0.05 | |
| 6.460 | 26671 | 23681 | 0.888 | 0.03 | |
| 6.626 | 81117 | 64224 | 0.792 | 0.09 | |
| 6.692 | 15739 | 11328 | 0.720 | 0.01 | |
| 6.889 | 47286 | 39025 | 0.825 | 0.05 | |
| 6.933 | 14363 | 12319 | 0.858 | 0.01 | |
| 7.091 | 16199 | 14781 | 0.912 | 0.01 | |
| 7.815 | 52767 | 42078 | 0.797 | 0.06 | |
| 7.885 | 26113 | 21104 | 0.808 | 0.03 | |
| 8.362 | 140636 | 122143 | 0.869 | 0.16 | |
| 8.657 | 17488631 | 14955055 | 0.855 | 20.76 | |
| 9.006 | 21100 | 13165 | 0.624 | 0.02 | |
| 9.175 | 26186 | 18987 | 0.725 | 0.03 | |
| 9.530 | 22980 | 14449 | 0.629 | 0.02 | |
| | 85721697 | 73261606 | | 100.000 | |

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D
Lab Smp Id: 1242-CAL5B  Client Smp ID: 1242-CAL5B
Inj Date : 03-MAY-2018 13:35
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 29  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 2222470 | 1.00000 | 0.92 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 2273072 | 1.00000 | 0.92 | 0.00- 20.00 | 102.28 | BA |
| 3.908 | 3.909 | -0.001 | 6829835 | 1.00000 | 0.94 | 0.00- 20.00 | 307.31 | BA |
| 4.011 | 4.011 | 0.000 | 2870213 | 1.00000 | 0.92 | 0.00- 20.00 | 129.15 | BA |
| 4.077 | 4.078 | -0.001 | 1940441 | 1.00000 | 0.93 | 0.00- 20.00 | 87.31 | BA |
| Average of Peak Amounts = | | | | | 0.92600 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

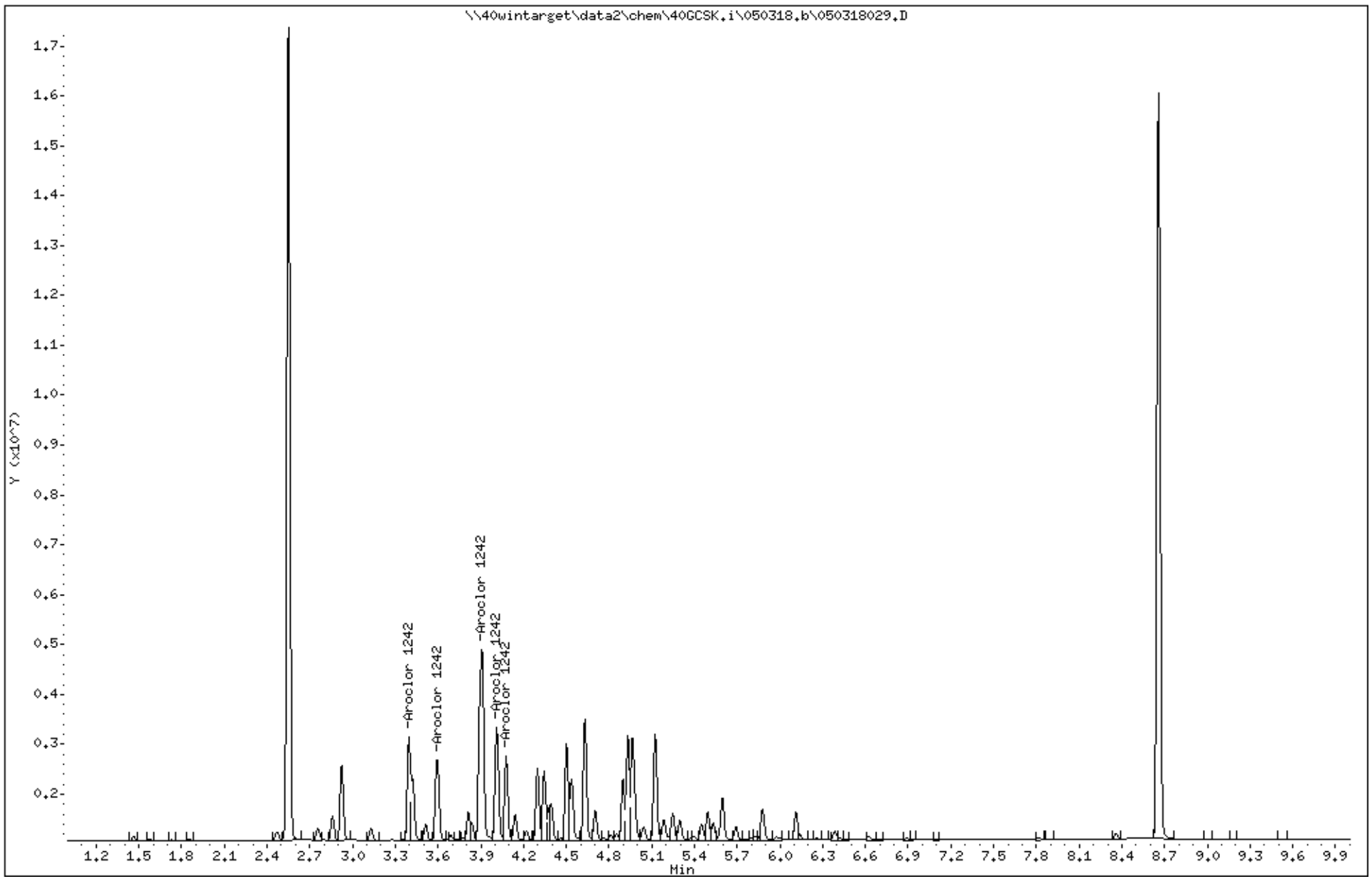
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D
Date : 03-MAY-2018 13:35
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

Instrument: 40GCSK.i

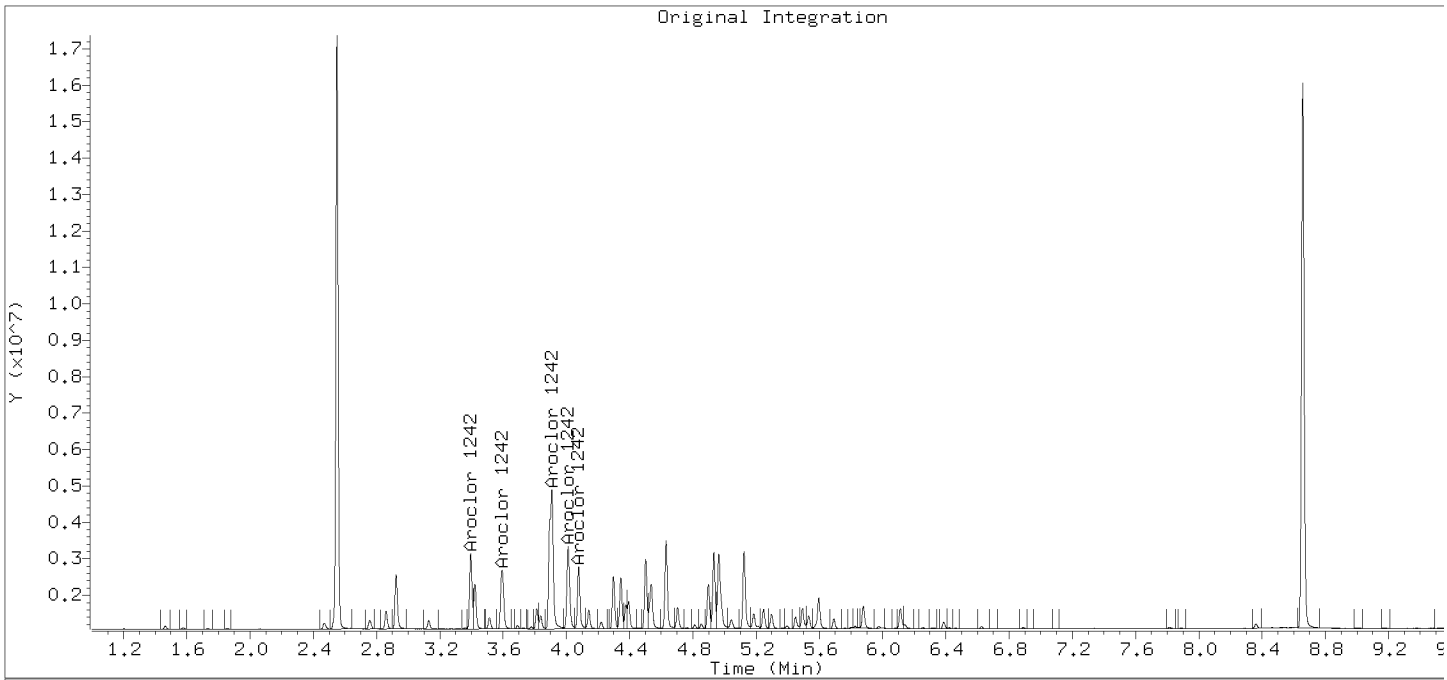
Operator: BLM

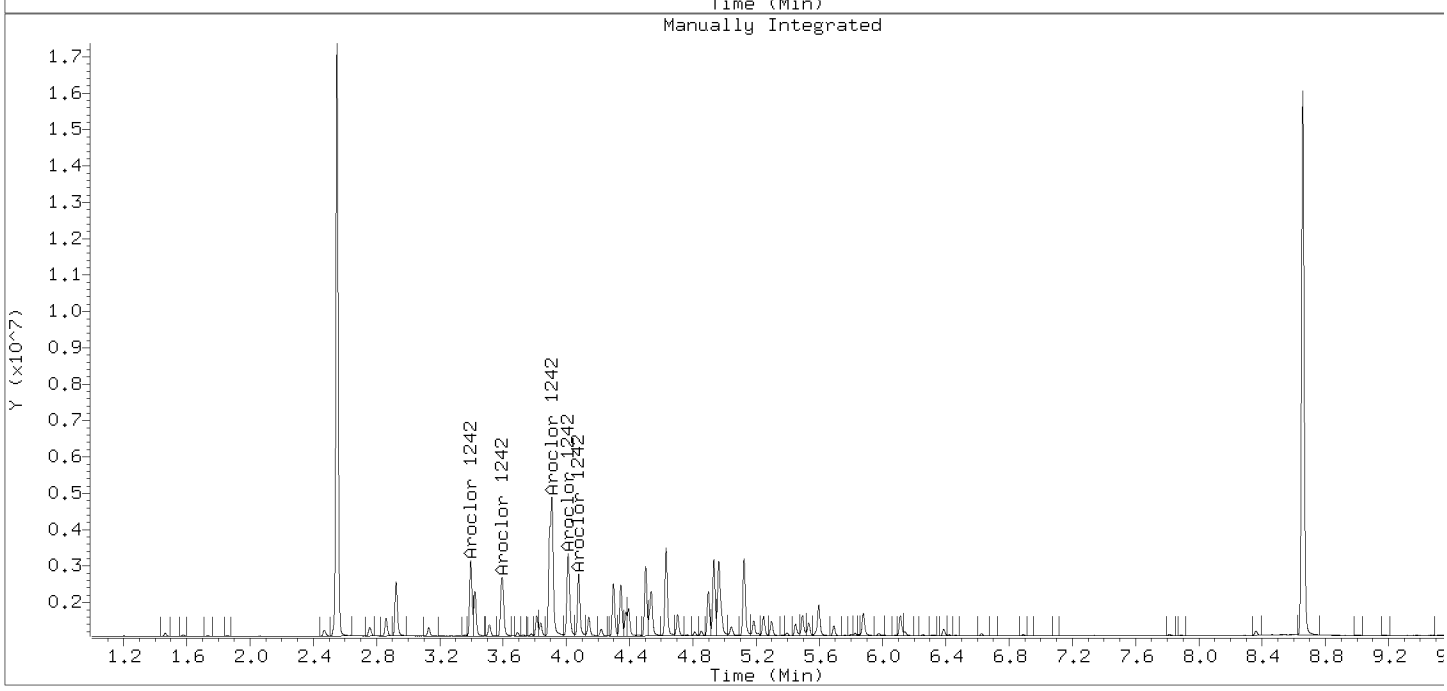
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318029.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:35 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL5B




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 2210979 | 2222470 | BA |
| Aroclor 1242 | 2210979 | 2222470 | BA |
| Aroclor 1242 | 2210979 | 2222470 | BA |
| Aroclor 1242 | 2210979 | 2222470 | BA |
| Aroclor 1242 | 2210979 | 2222470 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D
Lab Smp Id: 1248-CAL1D  Client Smp ID: 1248-CAL1D
Inj Date : 03-MAY-2018 14:07
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 33  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.203 | 12925 | 10305 | 0.797 | 0.13 | | |
| 2.062 | 12012 | 8905 | 0.741 | 0.12 | | |
| 2.549 | 1113172 | 1107544 | 0.995 | 11.90 | | |
| 2.861 | 24893 | 20023 | 0.804 | 0.26 | | |
| 2.925 | 39001 | 29584 | 0.759 | 0.41 | | |
| 3.130 | 14945 | 12381 | 0.828 | 0.15 | | |
| 3.396 | 142285 | 135259 | 0.951 | 1.52 | | |
| 3.421 | 65898 | 57305 | 0.870 | 0.70 | | |
| 3.513 | 13172 | 13059 | 0.991 | 0.14 | | |
| 3.595 | 114009 | 82967 | 0.728 | 1.21 | | |
| 3.814 | 27506 | 23533 | 0.856 | 0.29 | | |
| 3.895 | 184719 | 212092 | 1.148 | 1.97 | | |
| 3.909 | 286513 | 226681 | 0.791 | 3.06 | | |
| 4.015 | 185351 | 131334 | 0.709 | 1.98 | | |
| 4.077 | 127407 | 95067 | 0.746 | 1.36 | | |
| 4.142 | 70598 | 64208 | 0.909 | 0.75 | | |
| 4.221 | 29613 | 27426 | 0.926 | 0.31 | | |
| 4.298 | 310554 | 283751 | 0.914 | 3.32 | | |
| 4.345 | 245624 | 224712 | 0.915 | 2.62 | 6 Aroclor 1248 | BA |
| 4.376 | 99557 | 98515 | 0.990 | 1.06 | | |
| 4.394 | 120200 | 105607 | 0.879 | 1.28 | | |
| 4.502 | 366502 | 339423 | 0.926 | 3.91 | | |
| 4.538 | 198553 | 153927 | 0.775 | 2.12 | | |
| 4.631 | 429109 | 376264 | 0.877 | 4.58 | 6 Aroclor 1248 | BA |
| 4.703 | 107629 | 91448 | 0.850 | 1.15 | | |
| 4.855 | 26716 | 19153 | 0.717 | 0.28 | | |
| 4.899 | 199624 | 183860 | 0.921 | 2.13 | 6 Aroclor 1248 | BA |
| 4.934 | 405816 | 365693 | 0.901 | 4.33 | | |
| 4.965 | 564255 | 332391 | 0.589 | 6.03 | 6 Aroclor 1248 | BA |
| 5.043 | 82666 | 54771 | 0.663 | 0.88 | | |
| 5.124 | 375350 | 295197 | 0.786 | 4.01 | 6 Aroclor 1248 | BA |
| 5.185 | 154713 | 115220 | 0.745 | 1.65 | | |
| 5.248 | 173070 | 141802 | 0.819 | 1.85 | | |
| 5.298 | 125238 | 102440 | 0.818 | 1.33 | | |
| 5.394 | 28236 | 23625 | 0.837 | 0.30 | | |
| 5.449 | 108995 | 86307 | 0.792 | 1.16 | | |
| 5.493 | 168254 | 143653 | 0.854 | 1.79 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.532 | 114170 | 90123 | 0.789 | 1.22 | |
| 5.598 | 287538 | 228351 | 0.794 | 3.07 | |
| 5.693 | 87873 | 74720 | 0.850 | 0.93 | |
| 5.764 | 16608 | 12624 | 0.760 | 0.17 | |
| 5.800 | 16997 | 16503 | 0.971 | 0.18 | |
| 5.825 | 24196 | 19427 | 0.803 | 0.25 | |
| 5.878 | 211982 | 140771 | 0.664 | 2.26 | |
| 5.978 | 38212 | 17472 | 0.457 | 0.40 | |
| 6.115 | 173886 | 120932 | 0.695 | 1.85 | |
| 6.253 | 19549 | 14343 | 0.734 | 0.20 | |
| 6.388 | 69211 | 44173 | 0.638 | 0.73 | |
| 6.510 | 13037 | 9851 | 0.756 | 0.13 | |
| 6.598 | 12703 | 10208 | 0.804 | 0.13 | |
| 6.626 | 25862 | 17133 | 0.662 | 0.27 | |
| 6.881 | 13390 | 10776 | 0.805 | 0.14 | |
| 6.931 | 12716 | 8640 | 0.679 | 0.13 | |
| 7.093 | 20892 | 15262 | 0.731 | 0.22 | |
| 8.441 | 10422 | 6747 | 0.647 | 0.11 | |
| 8.658 | 1415876 | 1201691 | 0.849 | 15.43 | |
| 9.005 | 13135 | 10691 | 0.814 | 0.14 | |
| | 9352937 | 7865870 | | 100.000 | |

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D
Lab Smp Id: 1248-CAL1D  Client Smp ID: 1248-CAL1D
Inj Date : 03-MAY-2018 14:07
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 33  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 245624 | 0.10000 | 0.10 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 429108 | 0.10000 | 0.10 | 0.00- 20.00 | 174.70 | BA |
| 4.898 | 4.898 | 0.000 | 199623 | 0.10000 | 0.098 | 0.00- 20.00 | 81.27 | BA |
| 4.964 | 4.963 | 0.001 | 564254 | 0.10000 | 0.10 | 0.00- 20.00 | 229.72 | BA |
| 5.124 | 5.123 | 0.001 | 375350 | 0.10000 | 0.099 | 0.00- 20.00 | 152.81 | BA |
| | | | Average of Peak Amounts = | | 0.09940 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D



Date : 03-MAY-2018 14:07

Client ID: 1248-CAL1D

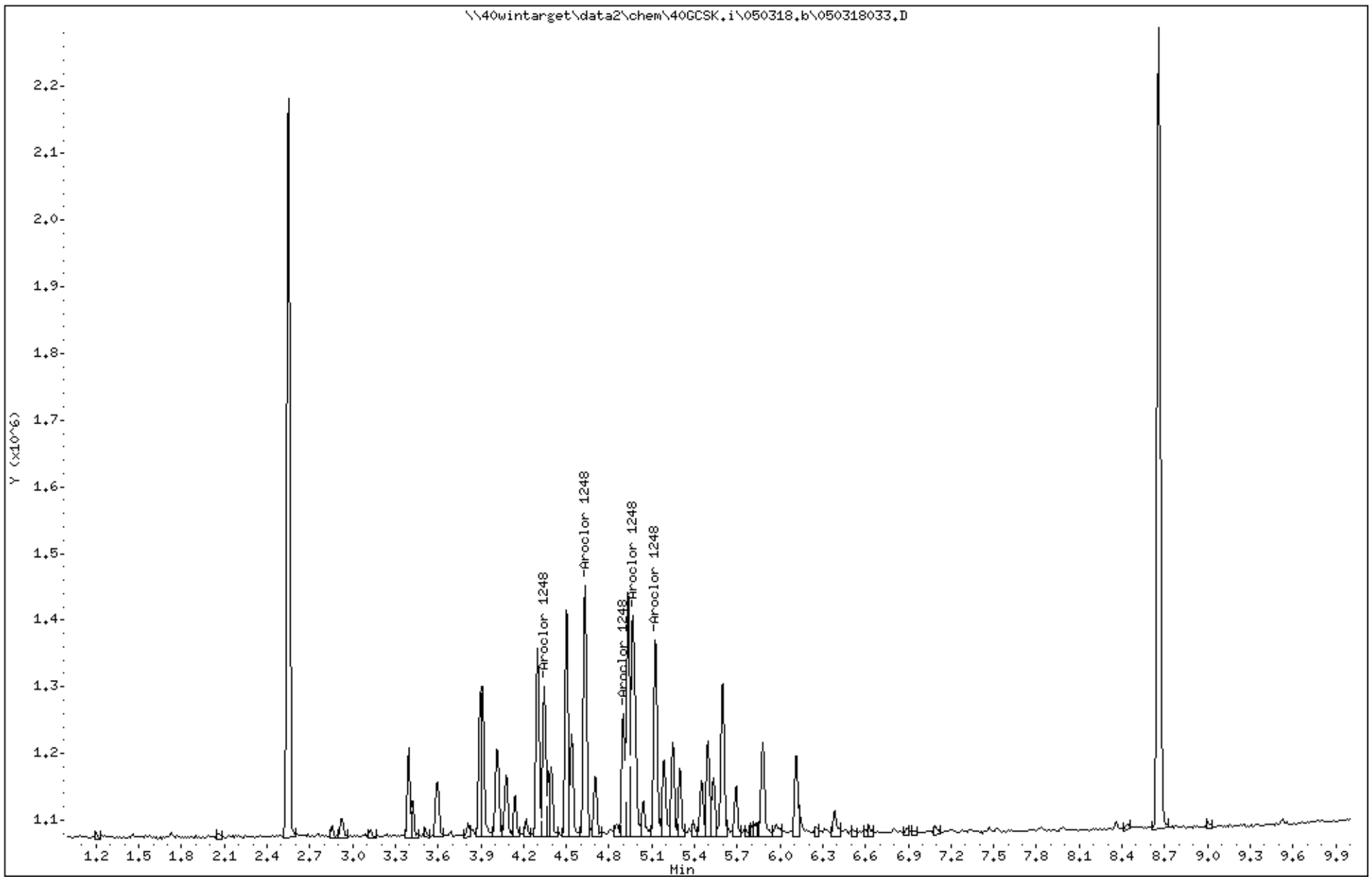
Instrument: 40GCSK.i

Sample Info: 1248-CAL1D, 188134:1

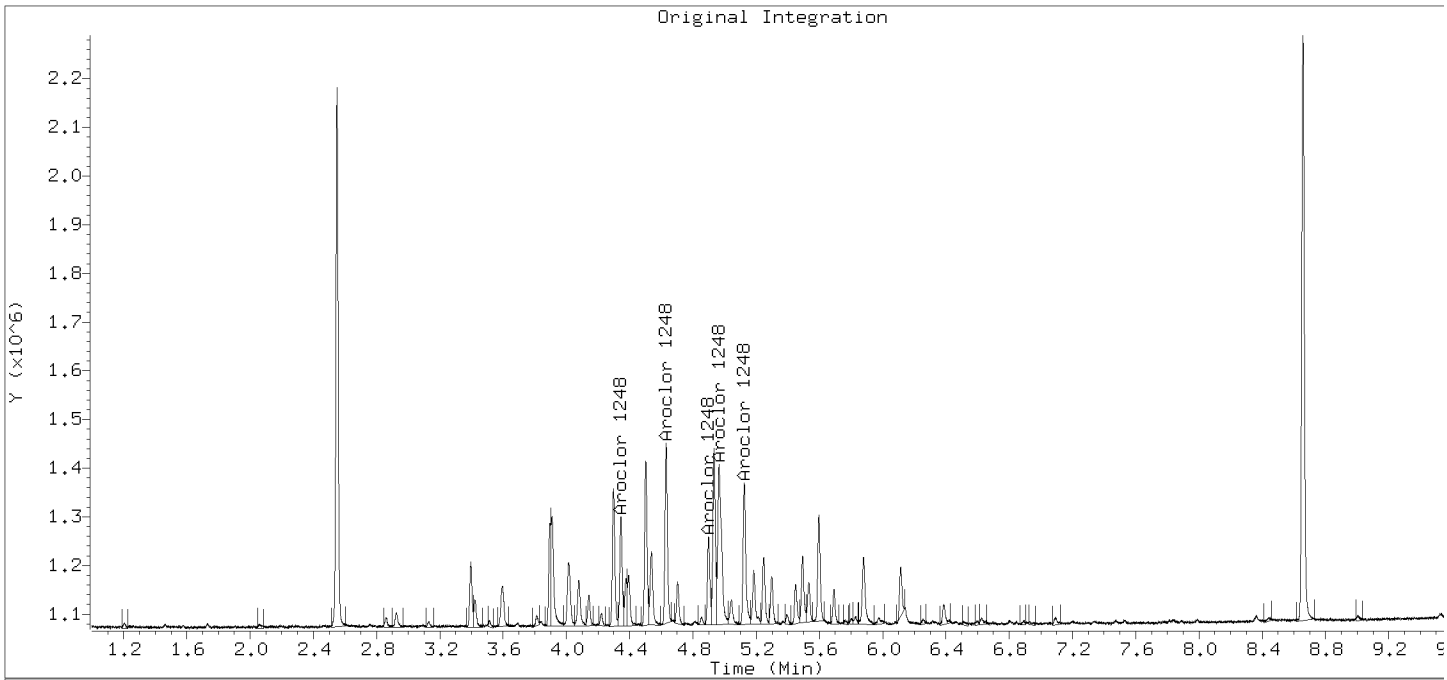
Operator: BLM

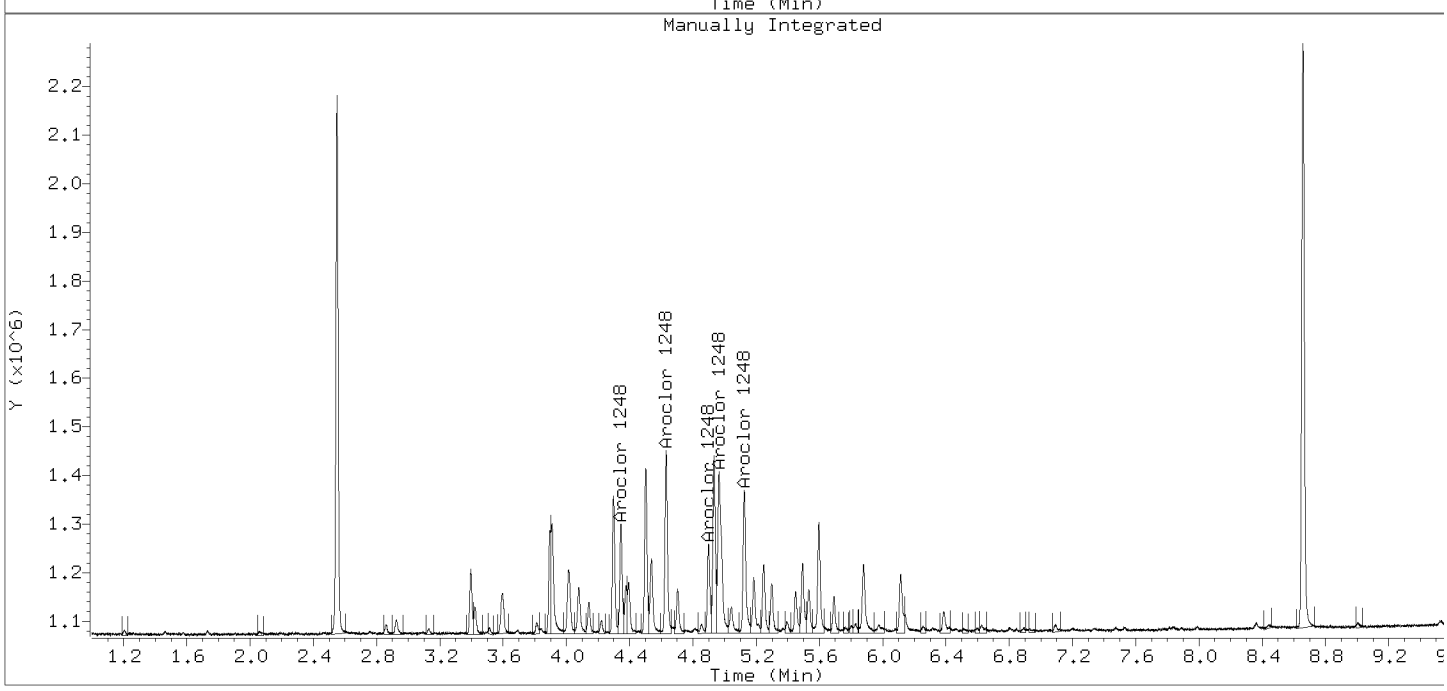
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318033.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL1D




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 243001 | 245624 | BA |
| Aroclor 1248 | 243001 | 245624 | BA |
| Aroclor 1248 | 243001 | 245624 | BA |
| Aroclor 1248 | 243001 | 245624 | BA |
| Aroclor 1248 | 243001 | 245624 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Lab Smp Id: 1248-CAL2D  Client Smp ID: 1248-CAL2D
Inj Date : 03-MAY-2018 14:23
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 35  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 12193 | 10816 | 0.887 | 0.06 | | |
| 1.464 | 16394 | 15191 | 0.927 | 0.08 | | |
| 2.550 | 2248293 | 2202337 | 0.980 | 11.51 | | |
| 2.755 | 15035 | 12503 | 0.832 | 0.07 | | |
| 2.859 | 48764 | 41906 | 0.859 | 0.24 | | |
| 2.923 | 72355 | 62082 | 0.858 | 0.37 | | |
| 3.129 | 26567 | 21876 | 0.823 | 0.13 | | |
| 3.396 | 283272 | 274480 | 0.969 | 1.45 | | |
| 3.423 | 128661 | 118192 | 0.919 | 0.65 | | |
| 3.515 | 28269 | 23363 | 0.826 | 0.14 | | |
| 3.596 | 247124 | 173092 | 0.700 | 1.26 | | |
| 3.692 | 18380 | 15746 | 0.857 | 0.09 | | |
| 3.814 | 50252 | 46048 | 0.916 | 0.25 | | |
| 3.838 | 21208 | 22100 | 1.042 | 0.10 | | |
| 3.897 | 393131 | 468374 | 1.191 | 2.01 | | |
| 3.909 | 596126 | 493008 | 0.827 | 3.05 | | |
| 4.015 | 377302 | 270937 | 0.718 | 1.93 | | |
| 4.079 | 250950 | 208377 | 0.830 | 1.28 | | |
| 4.142 | 153960 | 133785 | 0.869 | 0.78 | | |
| 4.221 | 63903 | 55508 | 0.869 | 0.32 | | |
| 4.298 | 639869 | 602692 | 0.942 | 3.27 | | |
| 4.345 | 507511 | 481250 | 0.948 | 2.59 | 6 Aroclor 1248 | BA |
| 4.377 | 210762 | 207443 | 0.984 | 1.07 | | |
| 4.394 | 235056 | 209338 | 0.891 | 1.20 | | |
| 4.502 | 767525 | 727422 | 0.948 | 3.93 | | |
| 4.537 | 395427 | 317676 | 0.803 | 2.02 | | |
| 4.631 | 912536 | 794821 | 0.871 | 4.67 | 6 Aroclor 1248 | BA |
| 4.705 | 214581 | 182874 | 0.852 | 1.09 | | |
| 4.811 | 30867 | 23298 | 0.755 | 0.15 | | |
| 4.853 | 46674 | 41414 | 0.887 | 0.23 | | |
| 4.899 | 421058 | 393411 | 0.934 | 2.15 | 6 Aroclor 1248 | BA |
| 4.933 | 857080 | 791698 | 0.924 | 4.38 | | |
| 4.965 | 1166514 | 708388 | 0.607 | 5.97 | 6 Aroclor 1248 | BA |
| 5.043 | 161685 | 112723 | 0.697 | 0.82 | | |
| 5.124 | 790864 | 671710 | 0.849 | 4.04 | 6 Aroclor 1248 | BA |
| 5.186 | 303897 | 227973 | 0.750 | 1.55 | | |
| 5.248 | 340096 | 293996 | 0.864 | 1.74 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.298 | 266434 | 213027 | 0.800 | 1.36 | |
| 5.370 | 20296 | 17916 | 0.883 | 0.10 | |
| 5.396 | 58148 | 46967 | 0.808 | 0.29 | |
| 5.449 | 211598 | 177386 | 0.838 | 1.08 | |
| 5.494 | 346381 | 294474 | 0.850 | 1.77 | |
| 5.533 | 226532 | 189201 | 0.835 | 1.16 | |
| 5.597 | 602691 | 477813 | 0.793 | 3.08 | |
| 5.692 | 176395 | 144428 | 0.819 | 0.90 | |
| 5.762 | 33881 | 22695 | 0.670 | 0.17 | |
| 5.799 | 40699 | 28876 | 0.709 | 0.20 | |
| 5.827 | 44330 | 39498 | 0.891 | 0.22 | |
| 5.879 | 432212 | 296032 | 0.685 | 2.21 | |
| 5.975 | 63845 | 33556 | 0.526 | 0.32 | |
| 6.113 | 391863 | 266382 | 0.680 | 2.00 | |
| 6.256 | 42036 | 24928 | 0.593 | 0.21 | |
| 6.314 | 35967 | 16333 | 0.454 | 0.18 | |
| 6.387 | 110583 | 88483 | 0.800 | 0.56 | |
| 6.463 | 18356 | 14069 | 0.766 | 0.09 | |
| 6.513 | 30867 | 16526 | 0.535 | 0.15 | |
| 6.597 | 22239 | 17428 | 0.784 | 0.11 | |
| 6.623 | 43733 | 30575 | 0.699 | 0.22 | |
| 6.803 | 17573 | 15942 | 0.907 | 0.08 | |
| 6.888 | 11273 | 10796 | 0.958 | 0.05 | |
| 7.091 | 35279 | 27942 | 0.792 | 0.18 | |
| 7.196 | 10562 | 11907 | 1.127 | 0.05 | |
| 7.337 | 11624 | 11865 | 1.021 | 0.05 | |
| 7.477 | 12060 | 13142 | 1.090 | 0.06 | |
| 7.529 | 18515 | 16531 | 0.893 | 0.09 | |
| 7.840 | 58000 | 38982 | 0.672 | 0.29 | |
| 8.362 | 23999 | 21545 | 0.898 | 0.12 | |
| 8.440 | 93129 | 60203 | 0.646 | 0.47 | |
| 8.657 | 2618428 | 2209213 | 0.844 | 13.79 | |
| 9.003 | 148332 | 88300 | 0.595 | 0.75 | |
| 9.526 | 196604 | 113183 | 0.576 | 1.00 | |
| | 19528607 | 16553992 | | 100.000 | |

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Lab Smp Id: 1248-CAL2D  Client Smp ID: 1248-CAL2D
Inj Date : 03-MAY-2018 14:23
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 35  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 507510 | 0.20000 | 0.21 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 912536 | 0.20000 | 0.21 | 0.00- 20.00 | 179.81 | BA |
| 4.899 | 4.898 | 0.001 | 421057 | 0.20000 | 0.21 | 0.00- 20.00 | 82.97 | BA |
| 4.964 | 4.963 | 0.001 | 1166514 | 0.20000 | 0.21 | 0.00- 20.00 | 229.85 | BA |
| 5.124 | 5.123 | 0.001 | 790864 | 0.20000 | 0.21 | 0.00- 20.00 | 155.83 | BA |
| | | | Average of Peak Amounts = | | 0.21000 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

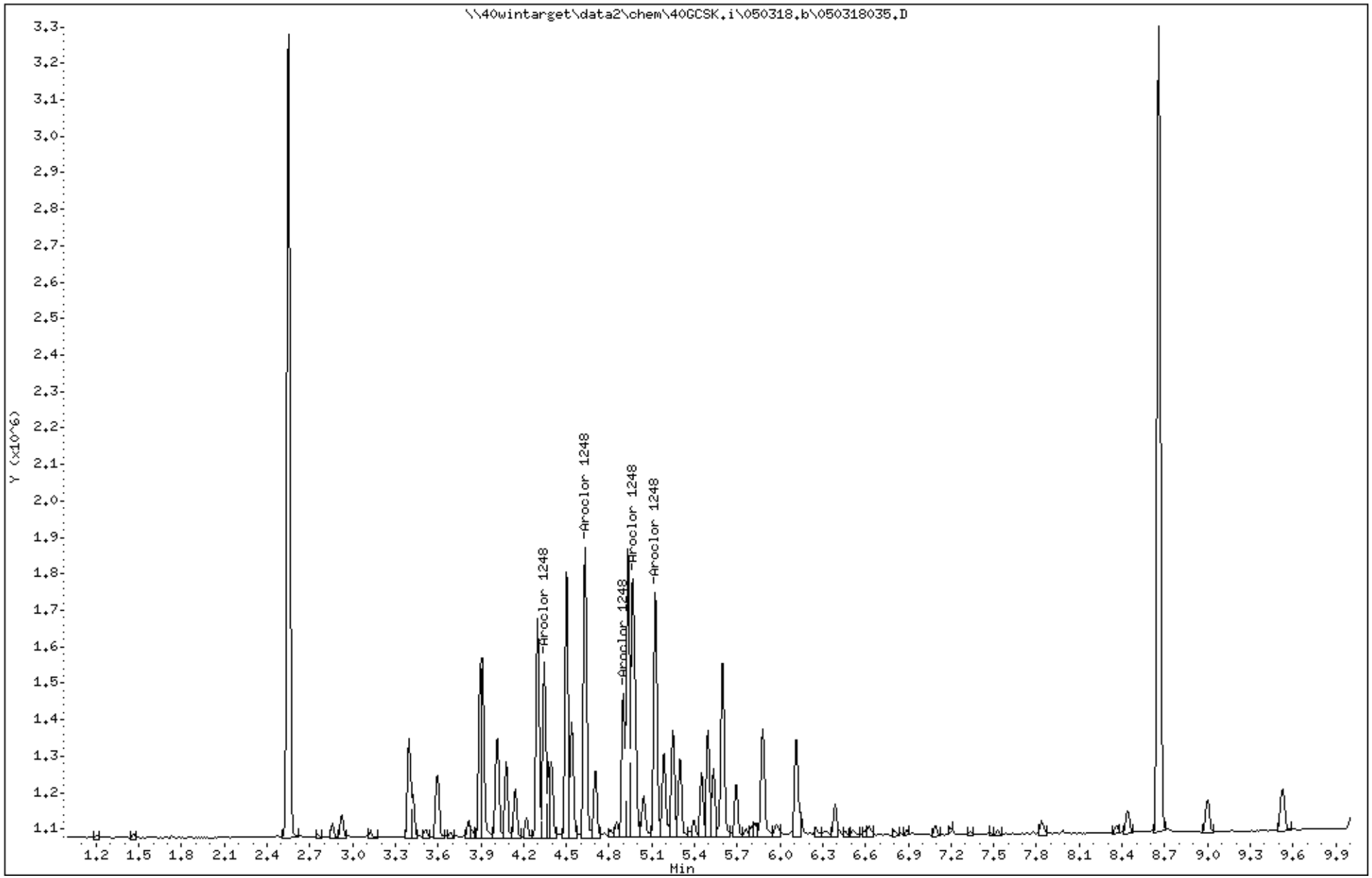
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Date : 03-MAY-2018 14:23
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

Instrument: 40GCSK.i

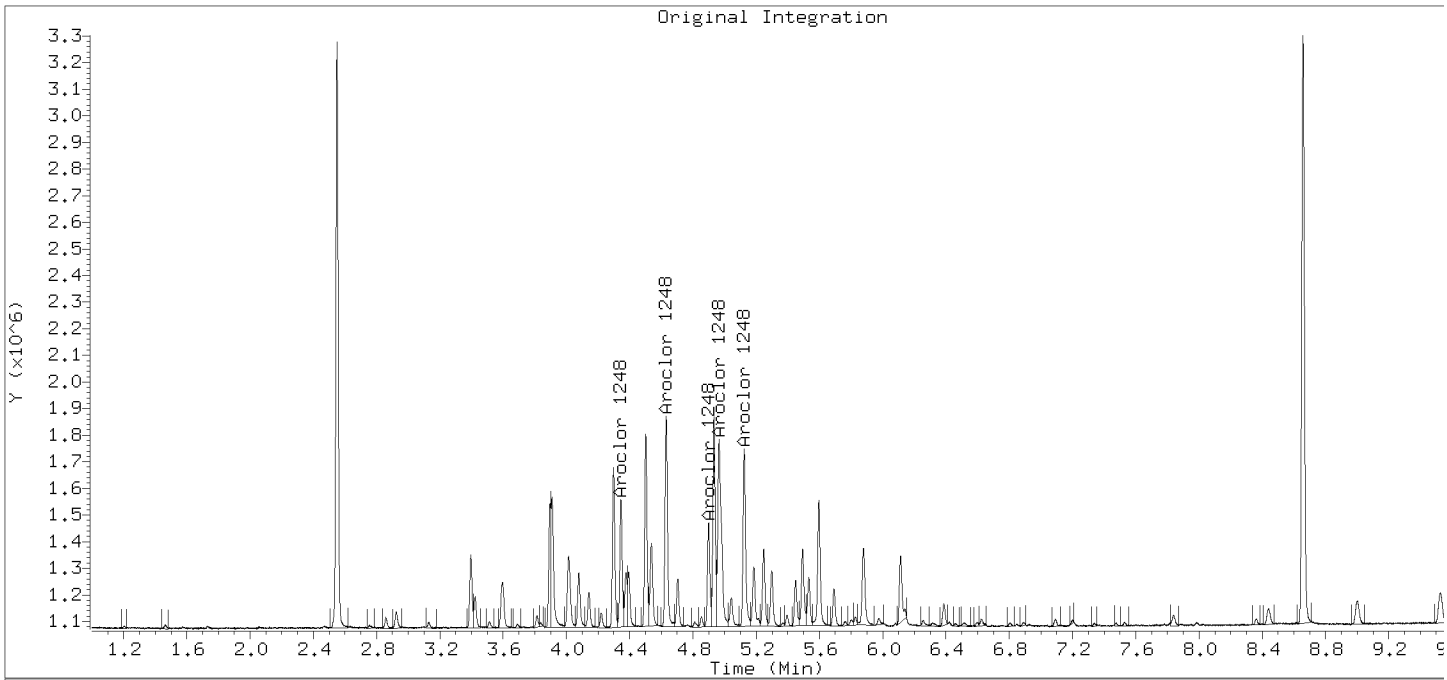
Operator: BLM

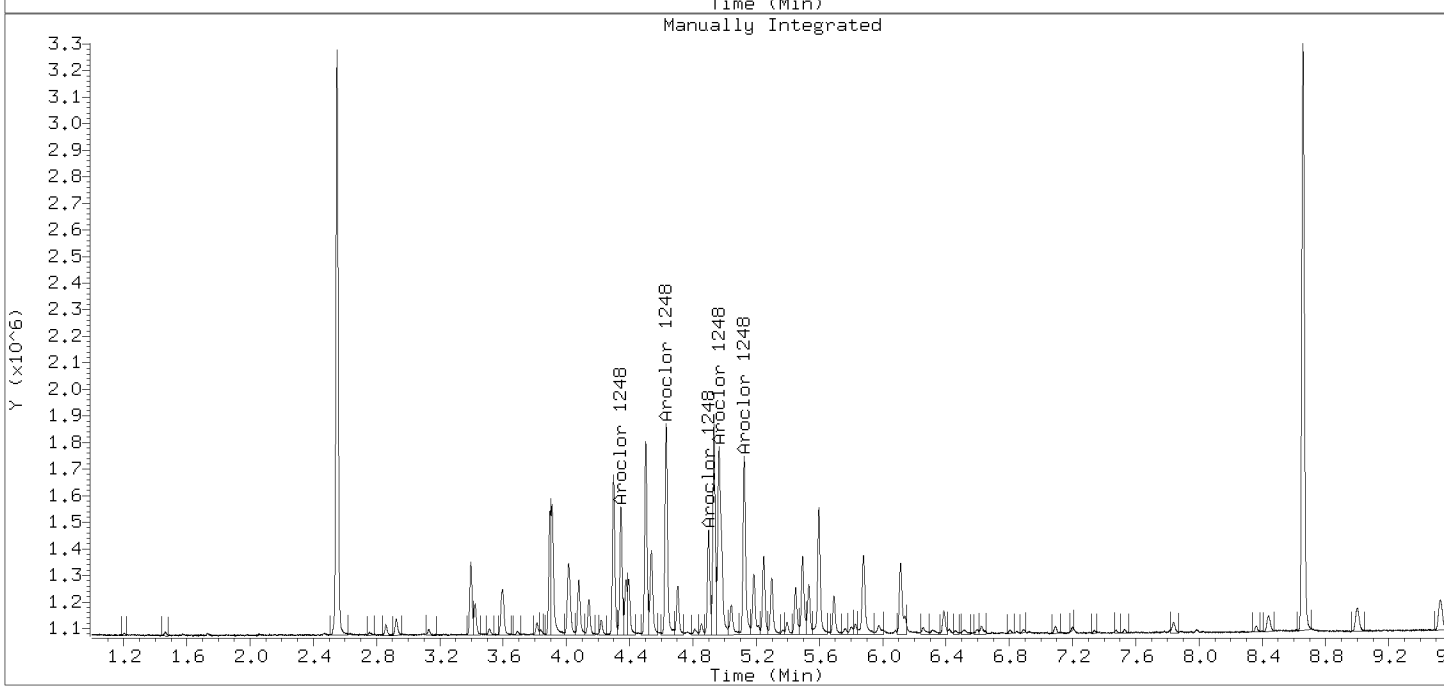
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318035.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL2D




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 498256 | 507510 | BA |
| Aroclor 1248 | 498256 | 507510 | BA |
| Aroclor 1248 | 498256 | 507510 | BA |
| Aroclor 1248 | 498256 | 507510 | BA |
| Aroclor 1248 | 498256 | 507510 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Lab Smp Id: 1248-CAL3D  Client Smp ID: 1248-CAL3D
Inj Date : 03-MAY-2018 14:39
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 37  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 23042 | 22710 | 0.986 | 0.04 | | |
| 1.462 | 38699 | 34263 | 0.885 | 0.08 | | |
| 1.578 | 23150 | 15930 | 0.688 | 0.05 | | |
| 1.731 | 23036 | 24046 | 1.044 | 0.04 | | |
| 2.059 | 16165 | 14865 | 0.920 | 0.03 | | |
| 2.469 | 20338 | 16747 | 0.823 | 0.04 | | |
| 2.550 | 5678766 | 5715490 | 1.006 | 12.28 | | |
| 2.756 | 34200 | 22049 | 0.645 | 0.07 | | |
| 2.859 | 108936 | 97997 | 0.900 | 0.23 | | |
| 2.924 | 172815 | 156985 | 0.908 | 0.37 | | |
| 3.131 | 55946 | 52458 | 0.938 | 0.12 | | |
| 3.395 | 694446 | 679678 | 0.979 | 1.50 | | |
| 3.422 | 302624 | 275356 | 0.910 | 0.65 | | |
| 3.513 | 62351 | 55711 | 0.894 | 0.13 | | |
| 3.594 | 579529 | 419536 | 0.724 | 1.25 | | |
| 3.691 | 33010 | 33032 | 1.001 | 0.07 | | |
| 3.813 | 122426 | 116540 | 0.952 | 0.26 | | |
| 3.838 | 54217 | 50500 | 0.931 | 0.11 | | |
| 3.896 | 1005937 | 1150188 | 1.143 | 2.17 | | |
| 3.909 | 1397100 | 1237407 | 0.886 | 3.02 | | |
| 4.013 | 914890 | 666523 | 0.729 | 1.97 | | |
| 4.078 | 598088 | 531356 | 0.888 | 1.29 | | |
| 4.143 | 364176 | 316157 | 0.868 | 0.78 | | |
| 4.221 | 142099 | 131953 | 0.929 | 0.30 | | |
| 4.299 | 1500430 | 1395046 | 0.930 | 3.24 | | |
| 4.345 | 1205715 | 1125625 | 0.934 | 2.60 | 6 Aroclor 1248 | BA |
| 4.377 | 488024 | 508570 | 1.042 | 1.05 | | |
| 4.394 | 586180 | 517481 | 0.883 | 1.26 | | |
| 4.502 | 1808767 | 1693633 | 0.936 | 3.91 | | |
| 4.537 | 976144 | 799806 | 0.819 | 2.11 | | |
| 4.631 | 2162650 | 1875939 | 0.867 | 4.68 | 6 Aroclor 1248 | BA |
| 4.704 | 506510 | 441693 | 0.872 | 1.09 | | |
| 4.764 | 31928 | 22466 | 0.704 | 0.06 | | |
| 4.812 | 65601 | 47283 | 0.721 | 0.14 | | |
| 4.854 | 111821 | 100139 | 0.896 | 0.24 | | |
| 4.899 | 1045399 | 985825 | 0.943 | 2.26 | 6 Aroclor 1248 | BA |
| 4.933 | 2060779 | 1890751 | 0.917 | 4.45 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.965 | 2762255 | 1702336 | 0.616 | 5.97 | 6 Aroclor 1248 |
| 5.043 | 362968 | 260148 | 0.717 | 0.78 | |
| 5.124 | 1922734 | 1655526 | 0.861 | 4.16 | 6 Aroclor 1248 |
| 5.186 | 710658 | 559498 | 0.787 | 1.53 | |
| 5.248 | 826870 | 722062 | 0.873 | 1.78 | |
| 5.298 | 611068 | 526141 | 0.861 | 1.32 | |
| 5.371 | 45066 | 43863 | 0.973 | 0.09 | |
| 5.395 | 134453 | 106559 | 0.793 | 0.29 | |
| 5.449 | 512393 | 437130 | 0.853 | 1.10 | |
| 5.493 | 856252 | 734912 | 0.858 | 1.85 | |
| 5.532 | 551671 | 464538 | 0.842 | 1.19 | |
| 5.597 | 1478913 | 1168540 | 0.790 | 3.20 | |
| 5.691 | 423814 | 352352 | 0.831 | 0.91 | |
| 5.762 | 55624 | 46364 | 0.834 | 0.12 | |
| 5.802 | 81164 | 61623 | 0.759 | 0.17 | |
| 5.826 | 109816 | 89469 | 0.815 | 0.23 | |
| 5.851 | 31363 | 44741 | 1.427 | 0.06 | |
| 5.878 | 1005423 | 795915 | 0.792 | 2.17 | |
| 5.977 | 105206 | 81739 | 0.777 | 0.22 | |
| 5.997 | 66419 | 39288 | 0.592 | 0.14 | |
| 6.080 | 31585 | 29384 | 0.930 | 0.06 | |
| 6.112 | 831985 | 716808 | 0.862 | 1.80 | |
| 6.140 | 203362 | 157389 | 0.774 | 0.44 | |
| 6.256 | 92550 | 57533 | 0.622 | 0.20 | |
| 6.313 | 61920 | 32390 | 0.523 | 0.13 | |
| 6.387 | 257538 | 213022 | 0.827 | 0.55 | |
| 6.422 | 50845 | 44860 | 0.882 | 0.11 | |
| 6.463 | 44417 | 31733 | 0.714 | 0.09 | |
| 6.516 | 21379 | 14781 | 0.691 | 0.04 | |
| 6.598 | 41673 | 40402 | 0.969 | 0.09 | |
| 6.626 | 104018 | 70551 | 0.678 | 0.22 | |
| 6.690 | 13105 | 12759 | 0.974 | 0.02 | |
| 6.806 | 39558 | 35208 | 0.890 | 0.08 | |
| 6.848 | 21247 | 19263 | 0.907 | 0.04 | |
| 6.888 | 50038 | 37304 | 0.746 | 0.10 | |
| 7.093 | 85792 | 68690 | 0.801 | 0.18 | |
| 7.202 | 17758 | 12462 | 0.702 | 0.03 | |
| 7.338 | 33463 | 28564 | 0.854 | 0.07 | |
| 7.476 | 33193 | 30409 | 0.916 | 0.07 | |
| 7.528 | 33297 | 30320 | 0.911 | 0.07 | |
| 7.776 | 11465 | 13290 | 1.159 | 0.02 | |
| 7.812 | 18578 | 18238 | 0.982 | 0.04 | |
| 7.839 | 13271 | 11505 | 0.867 | 0.02 | |
| 7.987 | 37080 | 26245 | 0.708 | 0.08 | |
| 8.362 | 63986 | 53435 | 0.835 | 0.13 | |
| 8.439 | 13036 | 12044 | 0.924 | 0.02 | |
| 8.657 | 6284570 | 5316129 | 0.846 | 14.03 | |
| 9.001 | 27032 | 15251 | 0.564 | 0.05 | |
| | 46207803 | 40284447 | | 100.000 | |

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Lab Smp Id: 1248-CAL3D  Client Smp ID: 1248-CAL3D
Inj Date : 03-MAY-2018 14:39
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 37  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1205715 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 4.631 | 4.630 | 0.001 | 2162650 | 0.50000 | 0.51 | 0.00- 20.00 | 179.37 | BA |
| 4.898 | 4.898 | 0.000 | 1045399 | 0.50000 | 0.51 | 0.00- 20.00 | 86.70 | BA |
| 4.964 | 4.963 | 0.001 | 2762254 | 0.50000 | 0.50 | 0.00- 20.00 | 229.10 | BA |
| 5.123 | 5.123 | 0.000 | 1922734 | 0.50000 | 0.51 | 0.00- 20.00 | 159.47 | BA |
| Average of Peak Amounts = | | | | | 0.50600 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

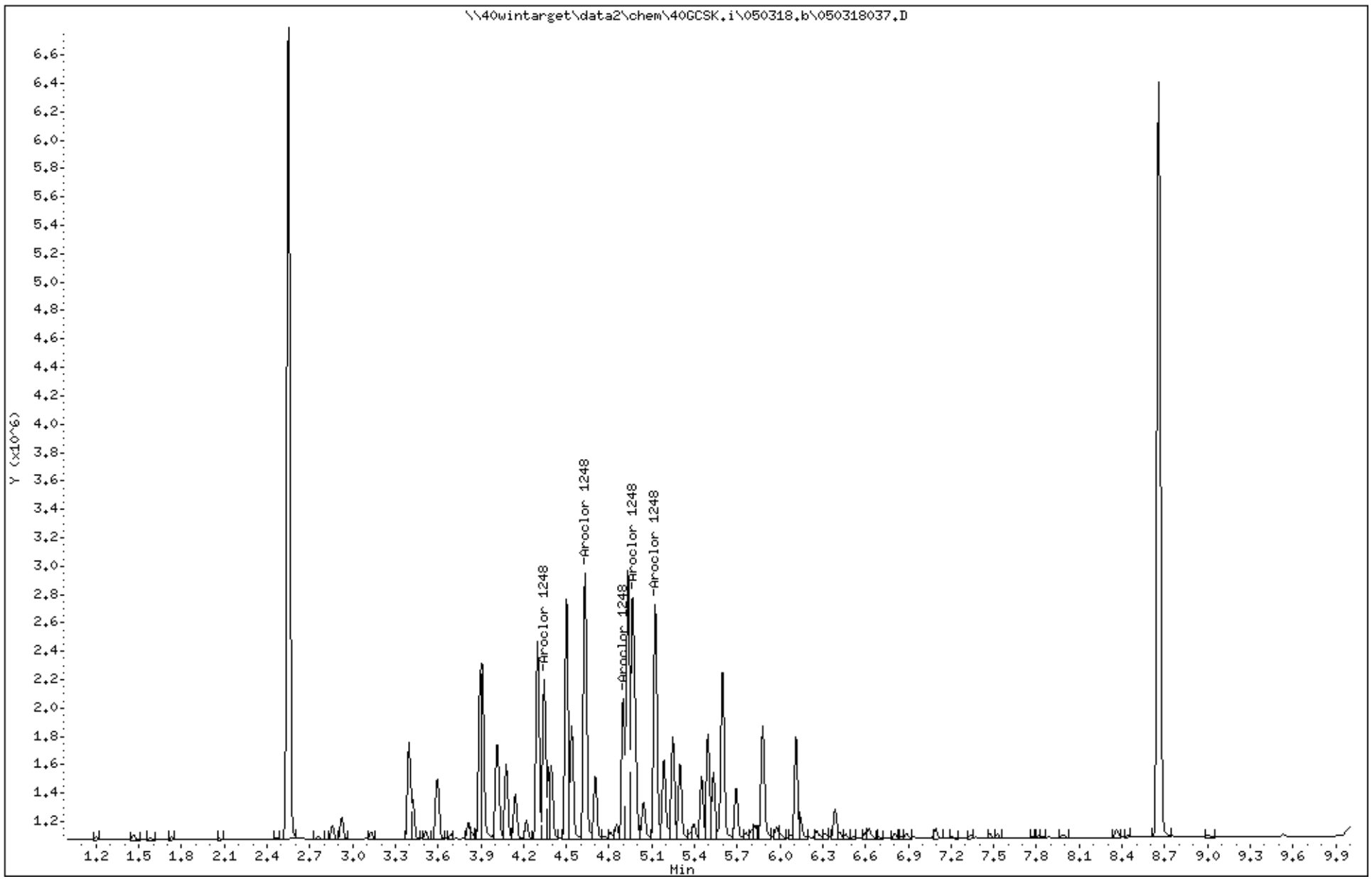
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Date : 03-MAY-2018 14:39
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSK.i

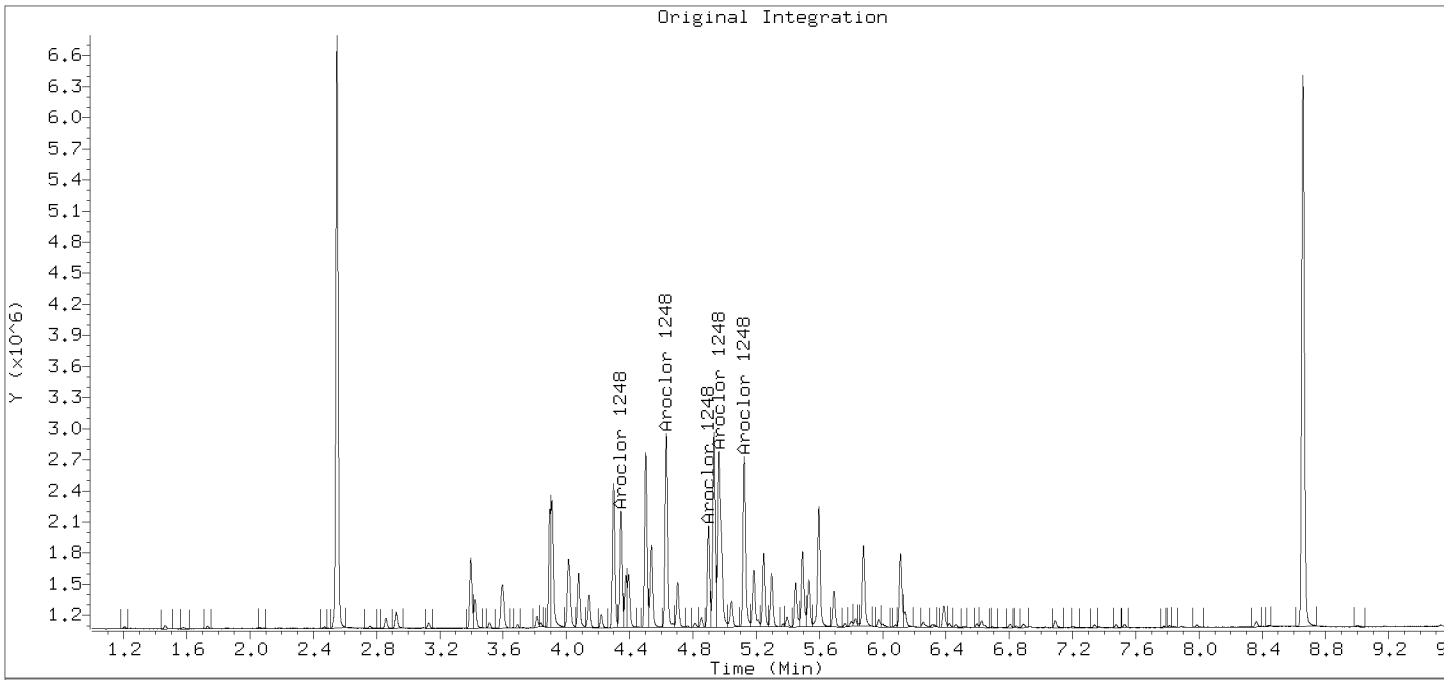
Operator: BLM

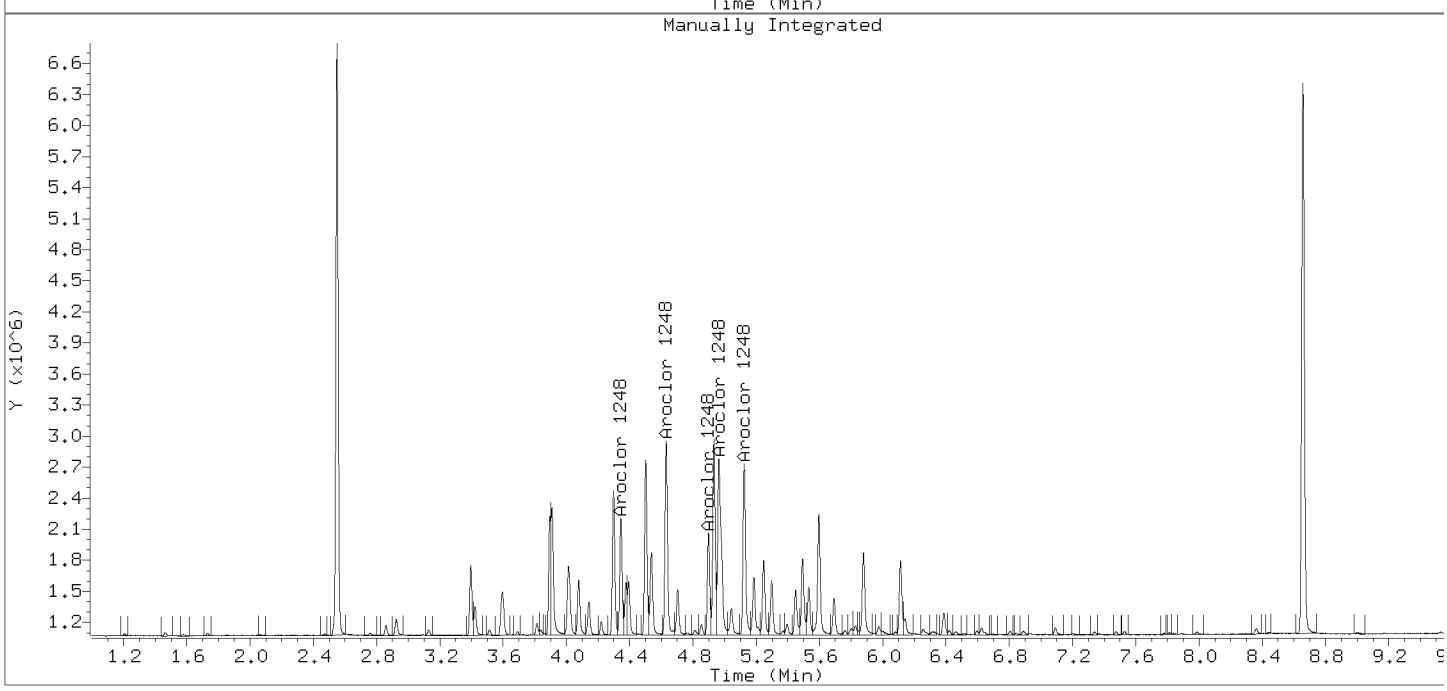
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318037.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL3D




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 1180648 | 1205715 | BA |
| Aroclor 1248 | 1180648 | 1205715 | BA |
| Aroclor 1248 | 1180648 | 1205715 | BA |
| Aroclor 1248 | 1180648 | 1205715 | BA |
| Aroclor 1248 | 1180648 | 1205715 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Lab Smp Id: 1248-CAL4D  Client Smp ID: 1248-CAL4D
Inj Date : 03-MAY-2018 14:56
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 39  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.461 | 61627 | 62076 | 1.007 | 0.08 | | |
| 1.574 | 27531 | 25715 | 0.934 | 0.03 | | |
| 1.729 | 9643 | 10967 | 1.137 | 0.01 | | |
| 2.468 | 34877 | 24670 | 0.707 | 0.04 | | |
| 2.549 | 11061533 | 11239262 | 1.016 | 14.84 | | |
| 2.754 | 43143 | 31667 | 0.734 | 0.05 | | |
| 2.858 | 186267 | 177384 | 0.952 | 0.25 | | |
| 2.922 | 250674 | 227380 | 0.907 | 0.33 | | |
| 3.129 | 92272 | 82704 | 0.896 | 0.12 | | |
| 3.395 | 1040377 | 1001925 | 0.963 | 1.39 | | |
| 3.422 | 467363 | 419847 | 0.898 | 0.62 | | |
| 3.514 | 104504 | 85754 | 0.821 | 0.14 | | |
| 3.594 | 902172 | 643071 | 0.713 | 1.21 | | |
| 3.691 | 72952 | 66712 | 0.914 | 0.09 | | |
| 3.725 | 15414 | 11043 | 0.716 | 0.02 | | |
| 3.775 | 10398 | 11543 | 1.110 | 0.01 | | |
| 3.813 | 181634 | 175488 | 0.966 | 0.24 | | |
| 3.838 | 93618 | 79421 | 0.848 | 0.12 | | |
| 3.896 | 1457388 | 1719370 | 1.180 | 1.95 | | |
| 3.908 | 2148087 | 1839001 | 0.856 | 2.88 | | |
| 4.013 | 1385896 | 1022659 | 0.738 | 1.86 | | |
| 4.077 | 919946 | 792712 | 0.862 | 1.23 | | |
| 4.142 | 538927 | 488428 | 0.906 | 0.72 | | |
| 4.220 | 225074 | 195612 | 0.869 | 0.30 | | |
| 4.297 | 2221402 | 2044175 | 0.920 | 2.98 | | |
| 4.344 | 1798581 | 1627949 | 0.905 | 2.41 | 6 Aroclor 1248 | BA |
| 4.376 | 755009 | 780094 | 1.033 | 1.01 | | |
| 4.393 | 866888 | 765639 | 0.883 | 1.16 | | |
| 4.502 | 2705404 | 2514860 | 0.930 | 3.63 | | |
| 4.537 | 1466339 | 1177018 | 0.803 | 1.96 | | |
| 4.631 | 3189565 | 2846740 | 0.893 | 4.28 | 6 Aroclor 1248 | BA |
| 4.676 | 64765 | 65460 | 1.011 | 0.08 | | |
| 4.703 | 770551 | 691438 | 0.897 | 1.03 | | |
| 4.766 | 52248 | 33813 | 0.647 | 0.07 | | |
| 4.812 | 99193 | 72980 | 0.736 | 0.13 | | |
| 4.853 | 167957 | 154648 | 0.921 | 0.22 | | |
| 4.898 | 1579735 | 1472056 | 0.932 | 2.12 | 6 Aroclor 1248 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.933 | 3113352 | 2894439 | 0.930 | 4.17 | |
| 4.964 | 4121037 | 2570106 | 0.624 | 5.53 | 6 Aroclor 1248 |
| 5.043 | 540359 | 398986 | 0.738 | 0.72 | |
| 5.123 | 2909152 | 2543192 | 0.874 | 3.90 | 6 Aroclor 1248 |
| 5.185 | 960084 | 828544 | 0.863 | 1.28 | |
| 5.212 | 116834 | 119642 | 1.024 | 0.15 | |
| 5.247 | 1236847 | 1084649 | 0.877 | 1.66 | |
| 5.298 | 922733 | 782911 | 0.848 | 1.23 | |
| 5.369 | 65608 | 57883 | 0.882 | 0.08 | |
| 5.395 | 200900 | 159797 | 0.795 | 0.26 | |
| 5.449 | 774000 | 661417 | 0.855 | 1.03 | |
| 5.493 | 1293168 | 1094890 | 0.847 | 1.73 | |
| 5.533 | 833320 | 711313 | 0.854 | 1.11 | |
| 5.597 | 2203206 | 1705526 | 0.774 | 2.95 | |
| 5.692 | 638734 | 554222 | 0.868 | 0.85 | |
| 5.760 | 81188 | 64590 | 0.796 | 0.10 | |
| 5.803 | 125399 | 95217 | 0.759 | 0.16 | |
| 5.828 | 156858 | 136687 | 0.871 | 0.21 | |
| 5.849 | 52898 | 64144 | 1.213 | 0.07 | |
| 5.879 | 1529546 | 1167333 | 0.763 | 2.05 | |
| 5.976 | 214300 | 121690 | 0.568 | 0.28 | |
| 6.079 | 49218 | 44456 | 0.903 | 0.06 | |
| 6.112 | 1258249 | 1076984 | 0.856 | 1.68 | |
| 6.141 | 309778 | 230160 | 0.743 | 0.41 | |
| 6.258 | 136587 | 86377 | 0.632 | 0.18 | |
| 6.316 | 82223 | 47831 | 0.582 | 0.11 | |
| 6.387 | 383609 | 308979 | 0.805 | 0.51 | |
| 6.422 | 84360 | 65024 | 0.771 | 0.11 | |
| 6.462 | 58995 | 47207 | 0.800 | 0.07 | |
| 6.513 | 23315 | 19161 | 0.822 | 0.03 | |
| 6.597 | 67995 | 62408 | 0.918 | 0.09 | |
| 6.625 | 150846 | 106047 | 0.703 | 0.20 | |
| 6.691 | 23750 | 14848 | 0.625 | 0.03 | |
| 6.745 | 16215 | 13652 | 0.842 | 0.02 | |
| 6.805 | 61322 | 55424 | 0.904 | 0.08 | |
| 6.847 | 27179 | 24992 | 0.920 | 0.03 | |
| 6.888 | 59956 | 53234 | 0.888 | 0.08 | |
| 6.930 | 22090 | 16541 | 0.749 | 0.02 | |
| 7.091 | 106720 | 99431 | 0.932 | 0.14 | |
| 7.202 | 11405 | 8941 | 0.784 | 0.01 | |
| 7.340 | 49071 | 39616 | 0.807 | 0.06 | |
| 7.371 | 15899 | 15169 | 0.954 | 0.02 | |
| 7.475 | 48376 | 44937 | 0.929 | 0.06 | |
| 7.529 | 50660 | 43721 | 0.863 | 0.06 | |
| 7.781 | 20685 | 16178 | 0.782 | 0.02 | |
| 7.816 | 33797 | 30911 | 0.915 | 0.04 | |
| 7.988 | 44215 | 37223 | 0.842 | 0.05 | |
| 8.361 | 115918 | 97522 | 0.841 | 0.15 | |
| 8.442 | 21402 | 16202 | 0.757 | 0.02 | |
| 8.538 | 12902 | 8399 | 0.651 | 0.01 | |
| 8.657 | 11858224 | 10074889 | 0.850 | 16.37 | |
| 9.003 | 47548 | 26692 | 0.561 | 0.06 | |
| 9.172 | 18444 | 11246 | 0.610 | 0.02 | |
| 9.527 | 48810 | 33601 | 0.688 | 0.06 | |
| 9.774 | 12094 | 7810 | 0.646 | 0.01 | |
| | 74490333 | 65384272 | | 100.000 | |

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Lab Smp Id: 1248-CAL4D  Client Smp ID: 1248-CAL4D
Inj Date : 03-MAY-2018 14:56
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 39  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.343 | 4.343 | 0.000 | 1798581 | 0.80000 | 0.75 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 3189565 | 0.80000 | 0.75 | 0.00- 20.00 | 177.34 | BA |
| 4.898 | 4.898 | 0.000 | 1579735 | 0.80000 | 0.78 | 0.00- 20.00 | 87.83 | BA |
| 4.964 | 4.963 | 0.001 | 4121036 | 0.80000 | 0.75 | 0.00- 20.00 | 229.13 | BA |
| 5.123 | 5.123 | 0.000 | 2909151 | 0.80000 | 0.77 | 0.00- 20.00 | 161.75 | BA |
| | | | Average of Peak Amounts = | | 0.76000 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D



Date : 03-MAY-2018 14:56

Client ID: 1248-CAL4D

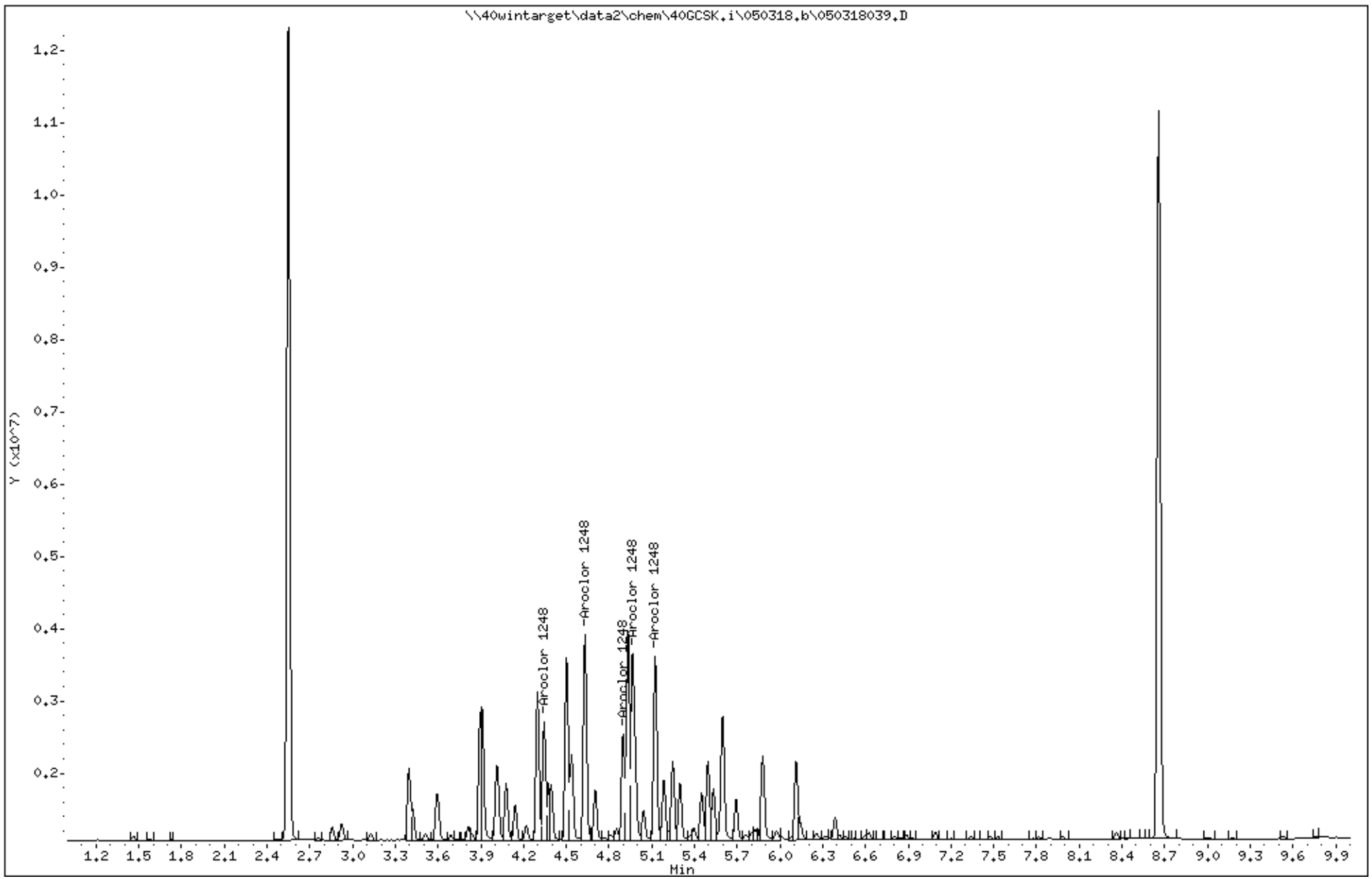
Instrument: 40GCSK.i

Sample Info: 1248-CAL4D, 185550:1

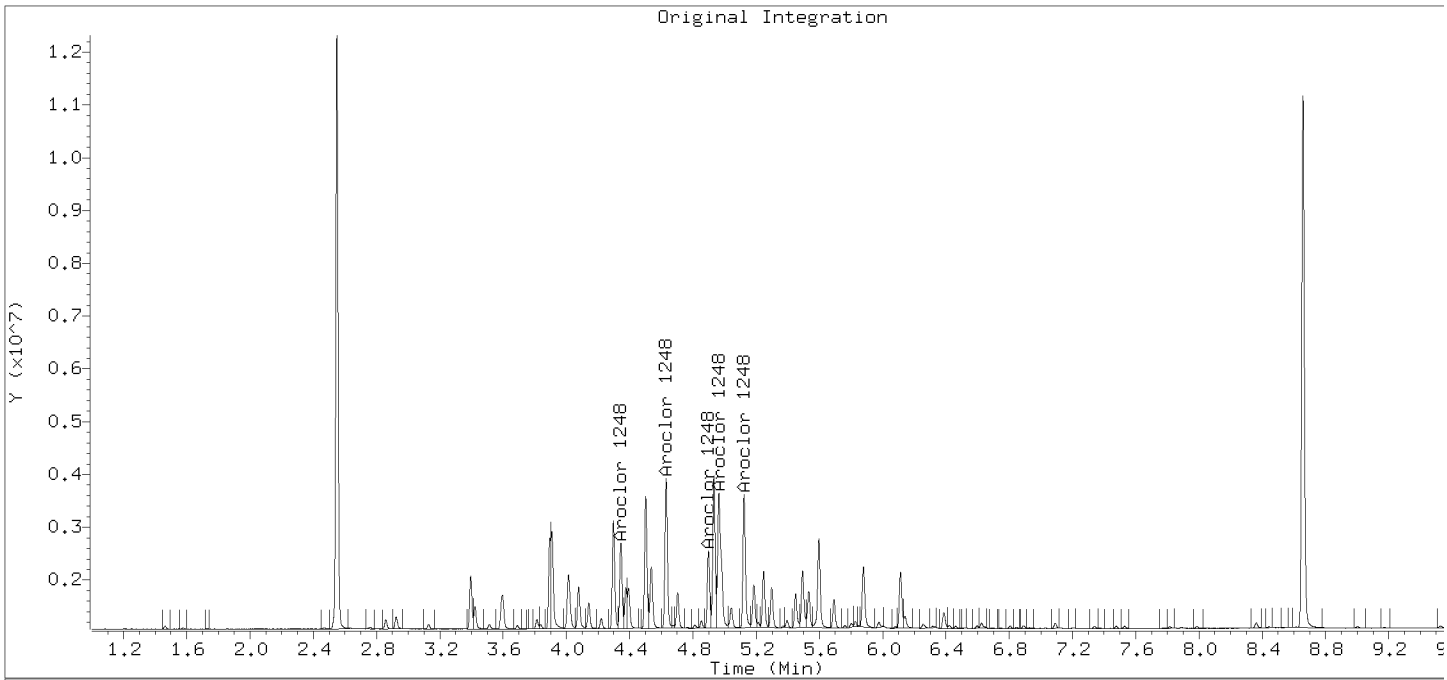
Operator: BLM

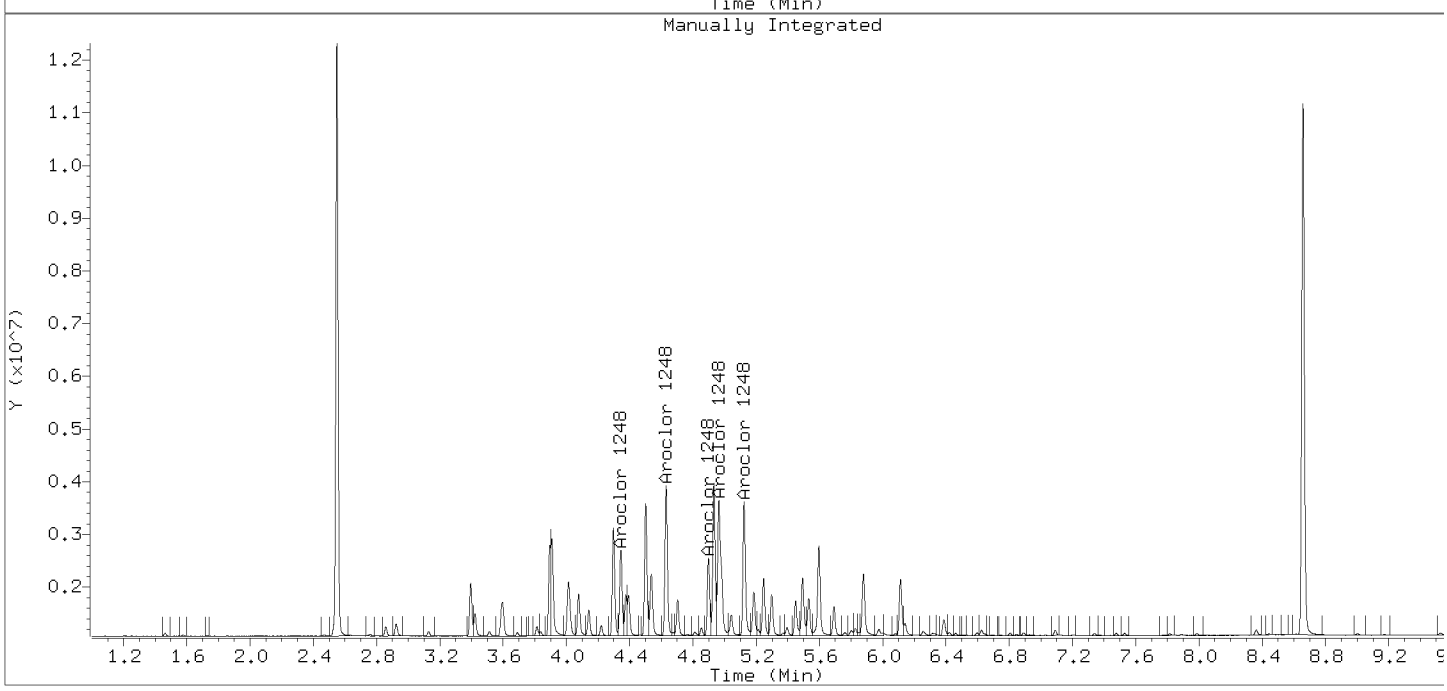
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318039.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:56 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL4D




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 1771634 | 1798581 | BA |
| Aroclor 1248 | 1771634 | 1798581 | BA |
| Aroclor 1248 | 1771634 | 1798581 | BA |
| Aroclor 1248 | 1771634 | 1798581 | BA |
| Aroclor 1248 | 1771634 | 1798581 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318041.D
Lab Smp Id: 1248-CAL5D  Client Smp ID: 1248-CAL5D
Inj Date : 03-MAY-2018 15:12
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 41  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.462 | 91836 | 92430 | 1.006 | 0.09 | | |
| 1.578 | 37716 | 36002 | 0.955 | 0.03 | | |
| 1.730 | 14148 | 12892 | 0.911 | 0.01 | | |
| 2.470 | 42419 | 31943 | 0.753 | 0.04 | | |
| 2.549 | 17160272 | 17561535 | 1.023 | 17.12 | | |
| 2.758 | 55305 | 40378 | 0.730 | 0.05 | | |
| 2.858 | 274138 | 252676 | 0.922 | 0.27 | | |
| 2.924 | 342345 | 300284 | 0.877 | 0.34 | | |
| 3.129 | 116710 | 109390 | 0.937 | 0.11 | | |
| 3.395 | 1309260 | 1264814 | 0.966 | 1.30 | | |
| 3.422 | 589586 | 545586 | 0.925 | 0.58 | | |
| 3.513 | 114896 | 107259 | 0.934 | 0.11 | | |
| 3.596 | 1137738 | 820817 | 0.721 | 1.13 | | |
| 3.690 | 93391 | 97959 | 1.049 | 0.09 | | |
| 3.727 | 15007 | 10474 | 0.698 | 0.01 | | |
| 3.780 | 14108 | 14703 | 1.042 | 0.01 | | |
| 3.814 | 235689 | 225987 | 0.959 | 0.23 | | |
| 3.839 | 120280 | 102257 | 0.850 | 0.12 | | |
| 3.895 | 1983838 | 2269212 | 1.144 | 1.97 | | |
| 3.908 | 2651128 | 2351793 | 0.887 | 2.64 | | |
| 4.013 | 1776845 | 1279486 | 0.720 | 1.77 | | |
| 4.077 | 1184604 | 1032495 | 0.872 | 1.18 | | |
| 4.142 | 695600 | 620315 | 0.892 | 0.69 | | |
| 4.220 | 276148 | 250528 | 0.907 | 0.27 | | |
| 4.297 | 2823755 | 2593254 | 0.918 | 2.81 | | |
| 4.345 | 2273296 | 2128782 | 0.936 | 2.26 | 6 Aroclor 1248 | BA |
| 4.377 | 969494 | 966726 | 0.997 | 0.96 | | |
| 4.393 | 1127745 | 969072 | 0.859 | 1.12 | | |
| 4.502 | 3450824 | 3169586 | 0.919 | 3.44 | | |
| 4.537 | 1864333 | 1505345 | 0.807 | 1.86 | | |
| 4.631 | 4071185 | 3599090 | 0.884 | 4.06 | 6 Aroclor 1248 | BA |
| 4.674 | 72315 | 83332 | 1.152 | 0.07 | | |
| 4.703 | 997310 | 872967 | 0.875 | 0.99 | | |
| 4.766 | 58927 | 41691 | 0.707 | 0.05 | | |
| 4.811 | 126177 | 91338 | 0.724 | 0.12 | | |
| 4.853 | 216024 | 194979 | 0.903 | 0.21 | | |
| 4.898 | 2018219 | 1863153 | 0.923 | 2.01 | 6 Aroclor 1248 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.933 | 3974260 | 3733791 | 0.939 | 3.96 | |
| 4.964 | 5236056 | 3344636 | 0.639 | 5.22 | 6 Aroclor 1248 |
| 5.043 | 687795 | 506909 | 0.737 | 0.68 | |
| 5.124 | 3726636 | 3308568 | 0.888 | 3.71 | 6 Aroclor 1248 |
| 5.185 | 1225770 | 1061522 | 0.866 | 1.22 | |
| 5.211 | 135950 | 149629 | 1.101 | 0.13 | |
| 5.248 | 1569206 | 1340519 | 0.854 | 1.56 | |
| 5.298 | 1173268 | 975974 | 0.832 | 1.17 | |
| 5.370 | 76106 | 74491 | 0.979 | 0.07 | |
| 5.395 | 252869 | 206667 | 0.817 | 0.25 | |
| 5.449 | 978931 | 834108 | 0.852 | 0.97 | |
| 5.494 | 1664857 | 1405100 | 0.844 | 1.66 | |
| 5.532 | 1052019 | 905200 | 0.860 | 1.04 | |
| 5.597 | 2771261 | 2183104 | 0.788 | 2.76 | |
| 5.691 | 812205 | 703406 | 0.866 | 0.81 | |
| 5.762 | 92578 | 77352 | 0.836 | 0.09 | |
| 5.801 | 150969 | 115532 | 0.765 | 0.15 | |
| 5.825 | 209380 | 167933 | 0.802 | 0.20 | |
| 5.851 | 54173 | 76968 | 1.421 | 0.05 | |
| 5.878 | 1937268 | 1483219 | 0.766 | 1.93 | |
| 5.975 | 254266 | 153336 | 0.603 | 0.25 | |
| 6.079 | 53976 | 52426 | 0.971 | 0.05 | |
| 6.113 | 1619632 | 1368956 | 0.845 | 1.61 | |
| 6.141 | 394829 | 283298 | 0.718 | 0.39 | |
| 6.257 | 155268 | 105674 | 0.681 | 0.15 | |
| 6.313 | 93226 | 52756 | 0.566 | 0.09 | |
| 6.386 | 483529 | 399946 | 0.827 | 0.48 | |
| 6.421 | 91107 | 77433 | 0.850 | 0.09 | |
| 6.461 | 67630 | 55223 | 0.817 | 0.06 | |
| 6.517 | 27977 | 18529 | 0.662 | 0.02 | |
| 6.595 | 72915 | 70182 | 0.963 | 0.07 | |
| 6.625 | 146217 | 130019 | 0.889 | 0.14 | |
| 6.690 | 11580 | 14748 | 1.274 | 0.01 | |
| 6.745 | 13873 | 12196 | 0.879 | 0.01 | |
| 6.806 | 69639 | 63008 | 0.905 | 0.06 | |
| 6.846 | 34512 | 31458 | 0.912 | 0.03 | |
| 6.889 | 75713 | 68490 | 0.905 | 0.07 | |
| 6.930 | 23411 | 20407 | 0.872 | 0.02 | |
| 7.027 | 10531 | 11571 | 1.099 | 0.01 | |
| 7.091 | 147133 | 126380 | 0.859 | 0.14 | |
| 7.209 | 20000 | 14923 | 0.746 | 0.01 | |
| 7.339 | 47227 | 44652 | 0.945 | 0.04 | |
| 7.475 | 60113 | 54922 | 0.914 | 0.05 | |
| 7.528 | 67993 | 60024 | 0.883 | 0.06 | |
| 7.777 | 23502 | 22012 | 0.937 | 0.02 | |
| 7.814 | 58238 | 49026 | 0.842 | 0.05 | |
| 7.886 | 31211 | 23794 | 0.762 | 0.03 | |
| 7.986 | 48813 | 45396 | 0.930 | 0.04 | |
| 8.361 | 180943 | 141188 | 0.780 | 0.18 | |
| 8.440 | 10245 | 10472 | 1.022 | 0.01 | |
| 8.537 | 10008 | 8425 | 0.842 | 0.00 | |
| 8.608 | 18217 | 12648 | 0.694 | 0.01 | |
| 8.657 | 17543140 | 15485480 | 0.883 | 17.95 | |
| 9.004 | 12636 | 12869 | 1.018 | 0.01 | |
| 9.173 | 23997 | 16056 | 0.669 | 0.02 | |
| 9.526 | 21832 | 16621 | 0.761 | 0.02 | |
| | 100209247 | 89299702 | | 100.000 | |

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318041.D
Lab Smp Id: 1248-CAL5D  Client Smp ID: 1248-CAL5D
Inj Date : 03-MAY-2018 15:12
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 41  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 2273295 | 1.00000 | 0.95 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 4071185 | 1.00000 | 0.96 | 0.00- 20.00 | 179.09 | BA |
| 4.897 | 4.898 | -0.001 | 2018218 | 1.00000 | 0.99 | 0.00- 20.00 | 88.78 | BA |
| 4.963 | 4.963 | 0.000 | 5236055 | 1.00000 | 0.96 | 0.00- 20.00 | 230.33 | BA |
| 5.123 | 5.123 | 0.000 | 3726636 | 1.00000 | 0.98 | 0.00- 20.00 | 163.93 | BA |
| Average of Peak Amounts = | | | | | 0.96800 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318041.D



Date : 03-MAY-2018 15:12

Client ID: 1248-CAL5D

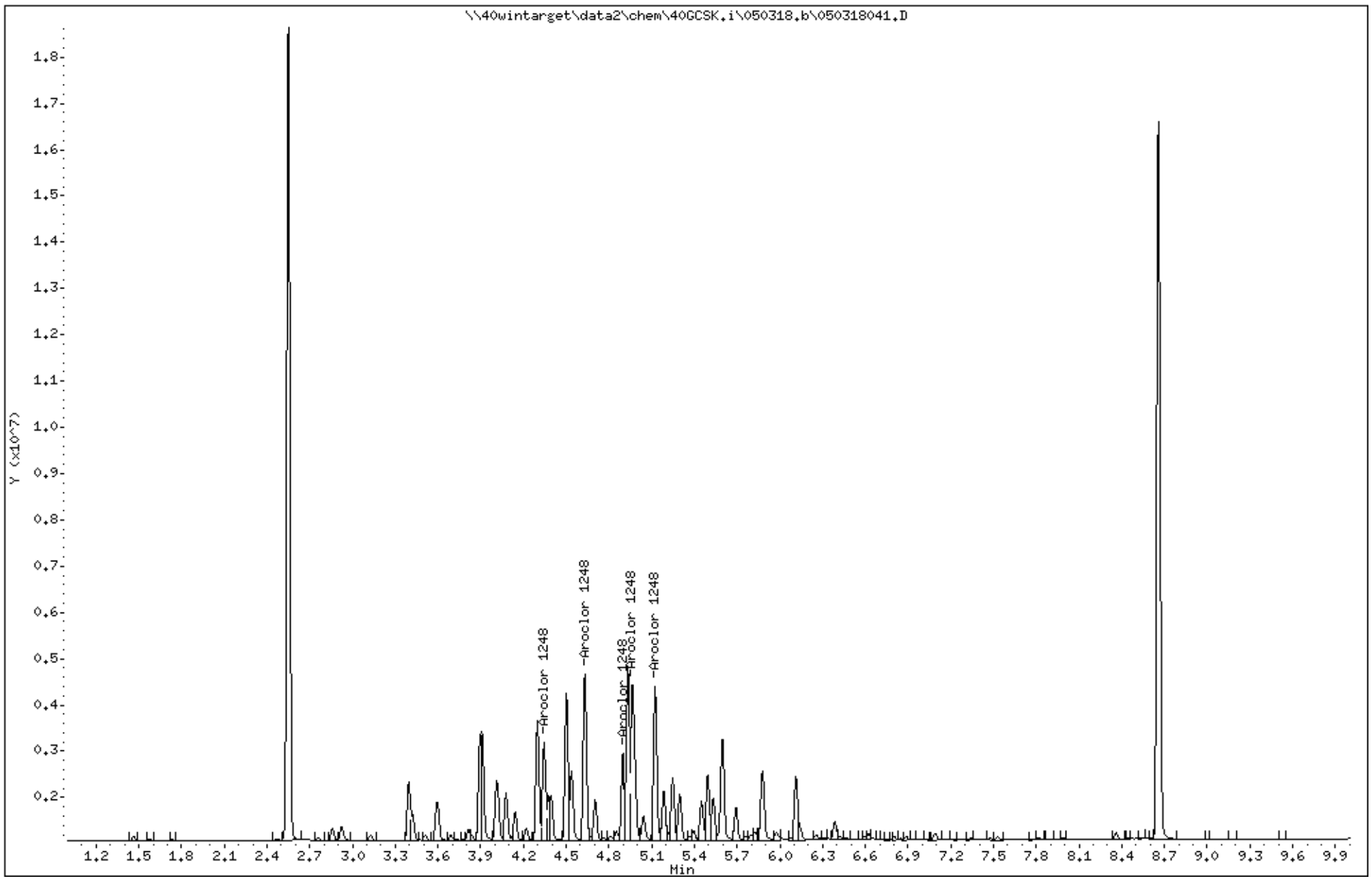
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

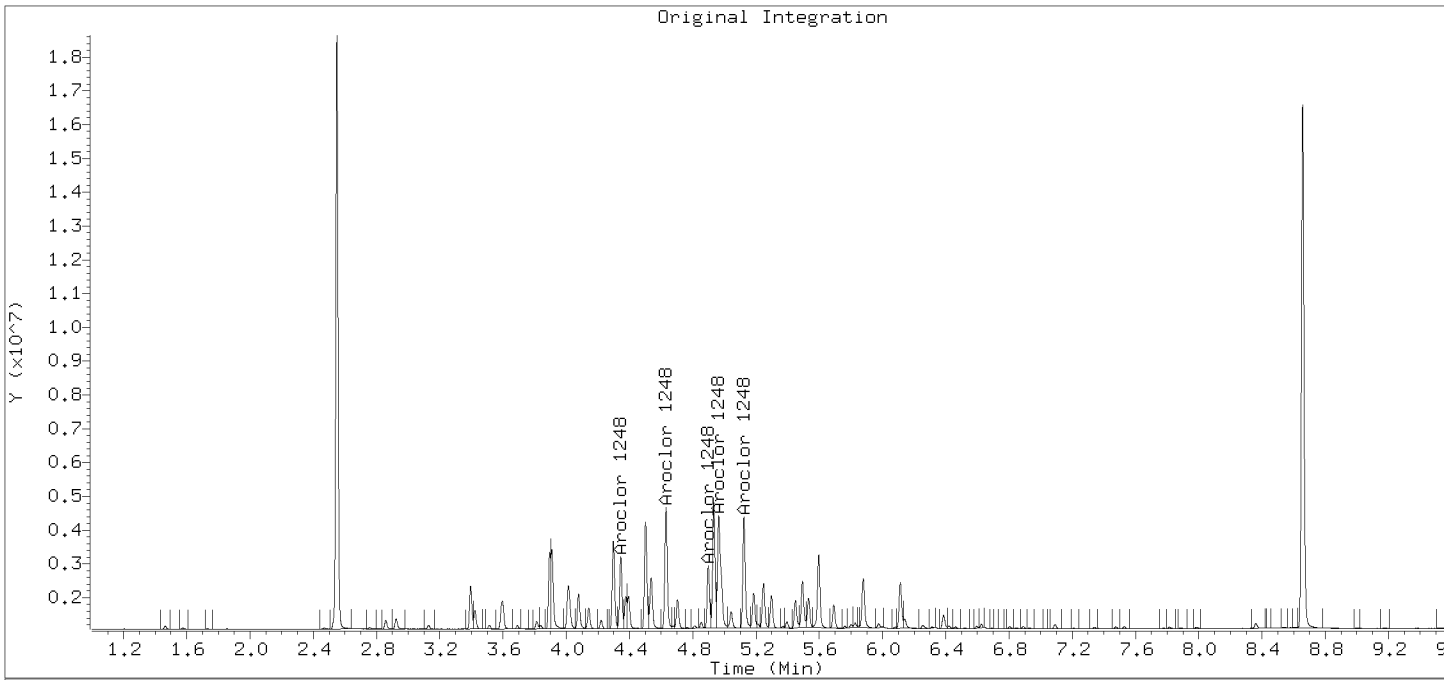
Operator: BLM

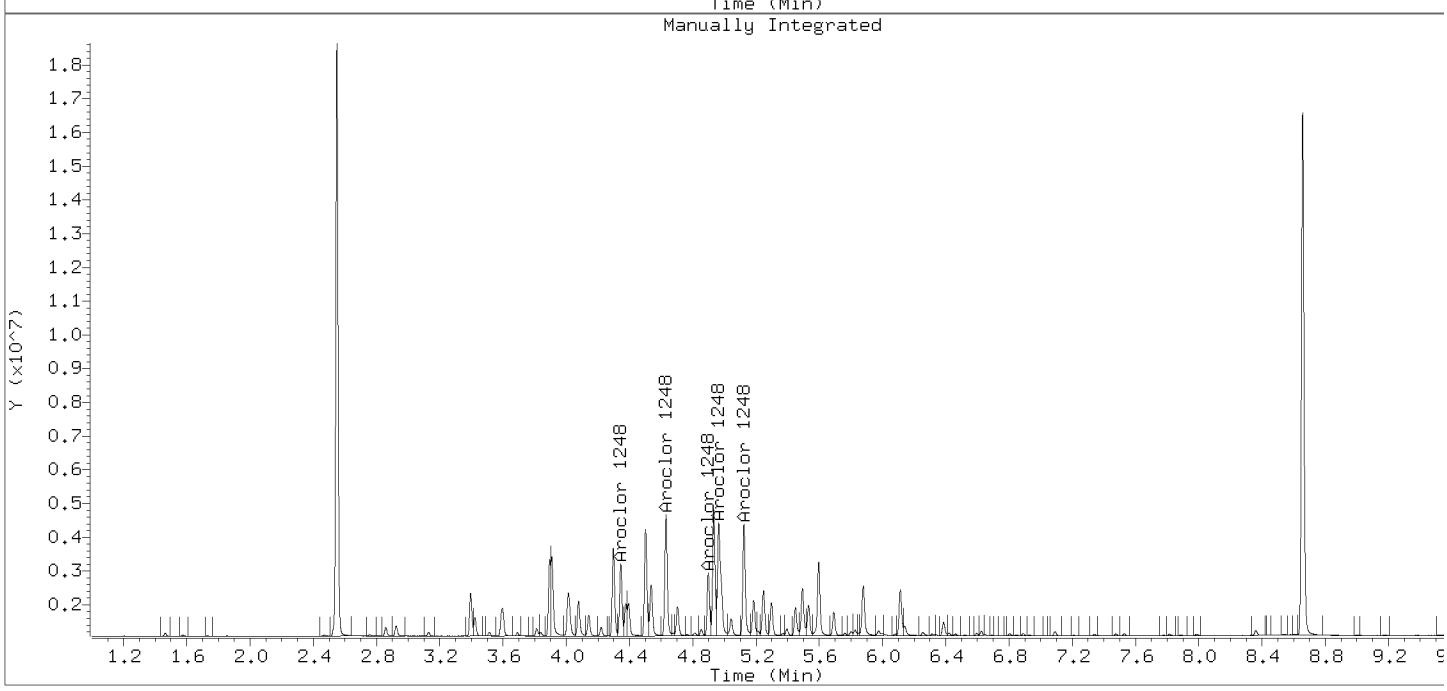
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318041.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 15:12 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL5D




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 2255505 | 2273295 | BA |
| Aroclor 1248 | 2255505 | 2273295 | BA |
| Aroclor 1248 | 2255505 | 2273295 | BA |
| Aroclor 1248 | 2255505 | 2273295 | BA |
| Aroclor 1248 | 2255505 | 2273295 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318045.D
Lab Smp Id: 1254-CAL1C  Client Smp ID: 1254-CAL1C
Inj Date : 03-MAY-2018 15:44
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 45  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 2.549 | 1179502 | 1167461 | 0.990 | 9.81 | | |
| 2.857 | 16535 | 17412 | 1.053 | 0.13 | | |
| 3.690 | 12117 | 9114 | 0.752 | 0.10 | | |
| 4.299 | 263491 | 244022 | 0.926 | 2.19 | | |
| 4.346 | 65124 | 64046 | 0.983 | 0.54 | | |
| 4.502 | 160147 | 146899 | 0.917 | 1.33 | | |
| 4.540 | 15729 | 14808 | 0.941 | 0.13 | | |
| 4.632 | 80283 | 63791 | 0.795 | 0.66 | | |
| 4.702 | 19593 | 12984 | 0.663 | 0.16 | | |
| 4.898 | 59045 | 51641 | 0.875 | 0.49 | | |
| 4.934 | 230365 | 201305 | 0.874 | 1.91 | | |
| 4.980 | 559768 | 438433 | 0.783 | 4.65 | | |
| 5.042 | 95903 | 78877 | 0.822 | 0.79 | | |
| 5.126 | 54684 | 41630 | 0.761 | 0.45 | | |
| 5.186 | 317361 | 273343 | 0.861 | 2.64 | | |
| 5.248 | 605223 | 532922 | 0.881 | 5.03 | 7 Aroclor 1254 | BA |
| 5.297 | 277550 | 237464 | 0.856 | 2.30 | | |
| 5.397 | 51481 | 43472 | 0.844 | 0.42 | | |
| 5.449 | 226805 | 204165 | 0.900 | 1.88 | | |
| 5.494 | 483755 | 425519 | 0.880 | 4.02 | 7 Aroclor 1254 | BA |
| 5.532 | 163729 | 144361 | 0.882 | 1.36 | | |
| 5.564 | 64826 | 60756 | 0.937 | 0.53 | | |
| 5.596 | 908810 | 785216 | 0.864 | 7.56 | 7 Aroclor 1254 | BA |
| 5.691 | 132623 | 105412 | 0.795 | 1.10 | | |
| 5.761 | 84922 | 75466 | 0.889 | 0.70 | | |
| 5.799 | 119697 | 77382 | 0.646 | 0.99 | | |
| 5.828 | 76419 | 59643 | 0.780 | 0.63 | | |
| 5.877 | 927803 | 651737 | 0.702 | 7.71 | | |
| 5.972 | 98137 | 60861 | 0.620 | 0.81 | | |
| 6.013 | 48845 | 31026 | 0.635 | 0.40 | | |
| 6.080 | 75297 | 69055 | 0.917 | 0.62 | | |
| 6.114 | 525013 | 446276 | 0.850 | 4.36 | 7 Aroclor 1254 | BA |
| 6.141 | 442950 | 354076 | 0.799 | 3.68 | | |
| 6.254 | 163096 | 127505 | 0.782 | 1.35 | | |
| 6.315 | 70726 | 66225 | 0.936 | 0.58 | | |
| 6.328 | 76016 | 65326 | 0.859 | 0.63 | | |
| 6.387 | 756905 | 633778 | 0.837 | 6.29 | 7 Aroclor 1254 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.421 | 157209 | 120376 | 0.766 | 1.30 | |
| 6.461 | 91519 | 66348 | 0.725 | 0.76 | |
| 6.598 | 32862 | 27267 | 0.830 | 0.27 | |
| 6.624 | 251355 | 178493 | 0.710 | 2.09 | |
| 6.692 | 39286 | 28106 | 0.715 | 0.32 | |
| 6.807 | 47278 | 40986 | 0.867 | 0.39 | |
| 6.848 | 31059 | 26187 | 0.843 | 0.25 | |
| 6.891 | 130461 | 107035 | 0.820 | 1.08 | |
| 6.931 | 41798 | 27889 | 0.667 | 0.34 | |
| 7.092 | 94677 | 80486 | 0.850 | 0.78 | |
| 7.340 | 79329 | 66625 | 0.840 | 0.65 | |
| 7.369 | 14506 | 15451 | 1.065 | 0.12 | |
| 7.639 | 10367 | 6933 | 0.669 | 0.08 | |
| 8.362 | 17220 | 12596 | 0.731 | 0.14 | |
| 8.657 | 1455903 | 1185230 | 0.814 | 12.38 | |
| 9.527 | 15450 | 10674 | 0.691 | 0.12 | |
| | 12020551 | 10084091 | | 100.000 | |

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318045.D
Lab Smp Id: 1254-CAL1C  Client Smp ID: 1254-CAL1C
Inj Date : 03-MAY-2018 15:44
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 45  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.248 | 5.248 | 0.000 | 605222 | 0.10000 | 0.11 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 483754 | 0.10000 | 0.10 | 0.00- 20.00 | 79.93 | BA |
| 5.596 | 5.596 | 0.000 | 908809 | 0.10000 | 0.11 | 0.00- 20.00 | 150.16 | BA |
| 6.114 | 6.113 | 0.001 | 525013 | 0.10000 | 0.099 | 0.00- 20.00 | 86.75 | BA |
| 6.386 | 6.387 | -0.001 | 756904 | 0.10000 | 0.10 | 0.00- 20.00 | 125.06 | BA |
| Average of Peak Amounts = | | | | | 0.10380 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318045.D



Date : 03-MAY-2018 15:44

Client ID: 1254-CAL1C

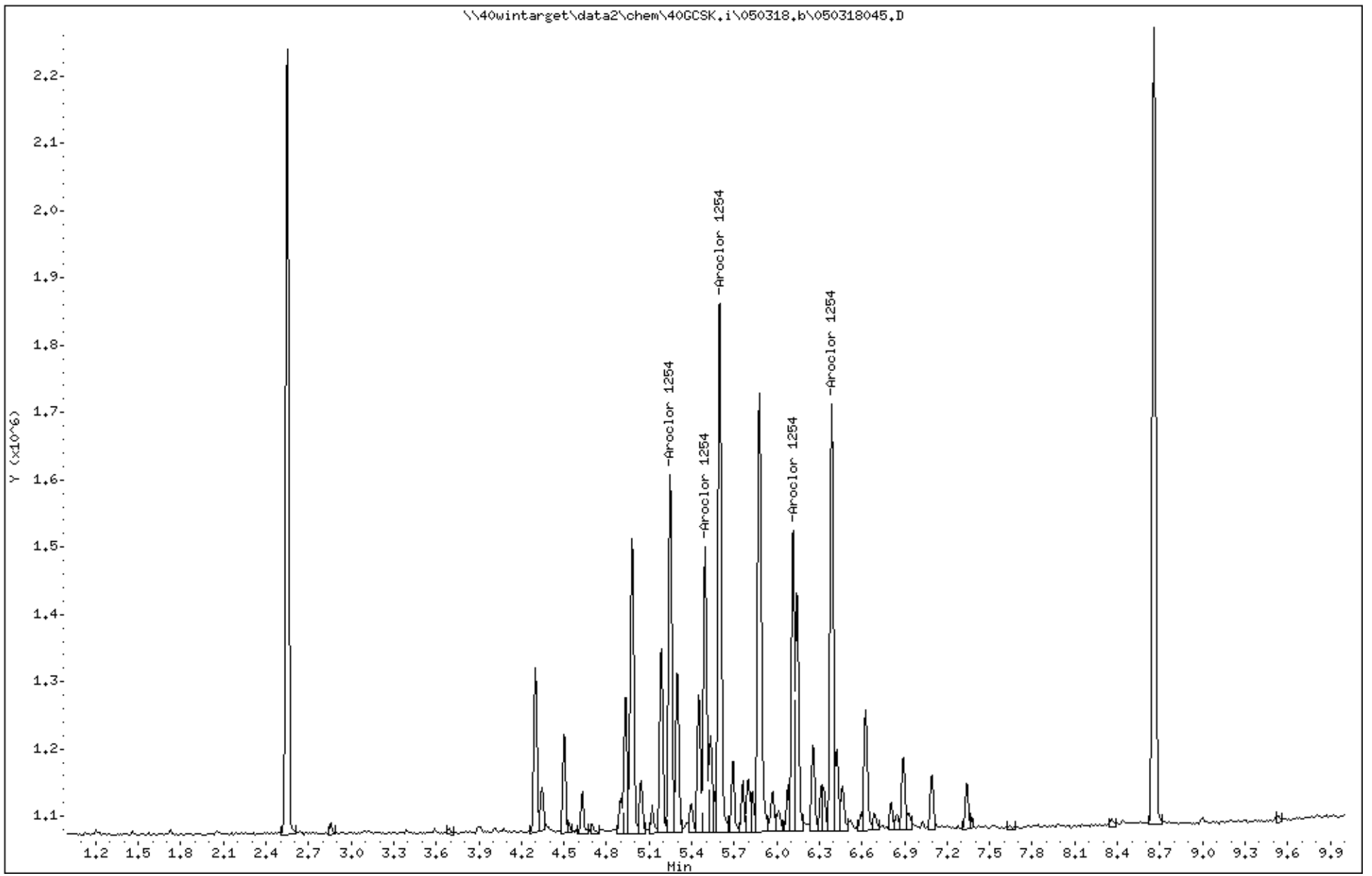
Instrument: 40GCSK.i

Sample Info: 1254-CAL1C, 188135:1

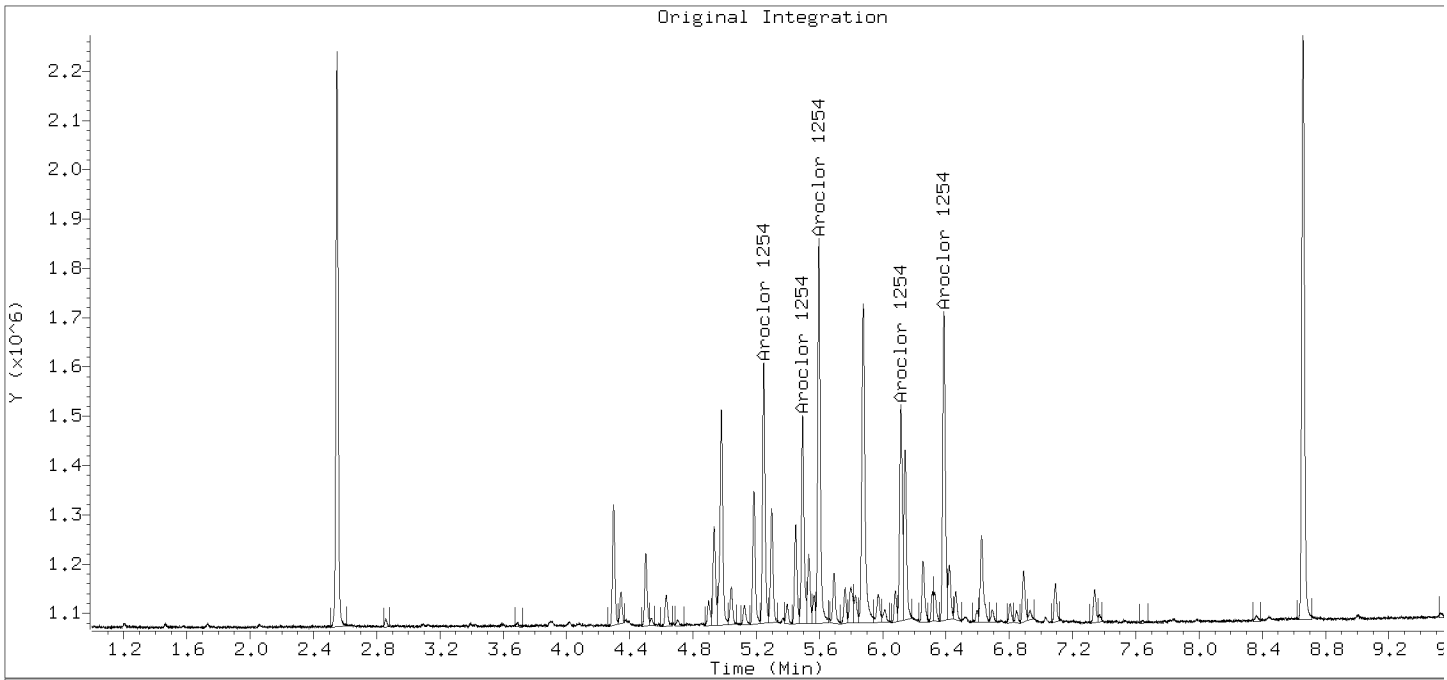
Operator: BLM

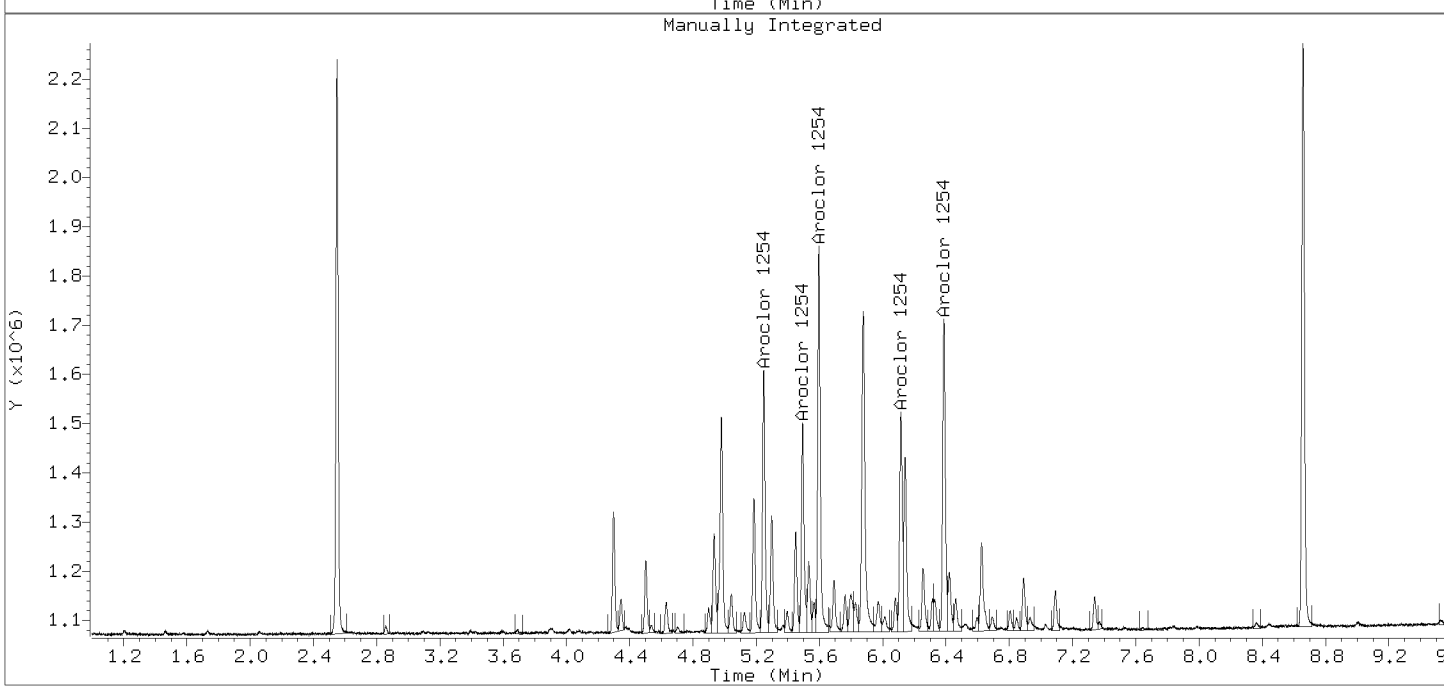
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318045.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 15:44 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL1C




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 588776 | 605222 | BA |
| Aroclor 1254 | 588776 | 605222 | BA |
| Aroclor 1254 | 588776 | 605222 | BA |
| Aroclor 1254 | 588776 | 605222 | BA |
| Aroclor 1254 | 588776 | 605222 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Lab Smp Id: 1254-CAL2C  Client Smp ID: 1254-CAL2C
Inj Date : 03-MAY-2018 16:00
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 47  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.461 | 14822 | 13973 | 0.943 | 0.06 | | |
| 1.576 | 10179 | 9618 | 0.945 | 0.04 | | |
| 2.549 | 2304938 | 2305889 | 1.000 | 9.50 | | |
| 2.860 | 41460 | 32918 | 0.794 | 0.17 | | |
| 3.393 | 13825 | 11709 | 0.847 | 0.05 | | |
| 3.690 | 24133 | 16627 | 0.689 | 0.09 | | |
| 3.895 | 23160 | 17490 | 0.755 | 0.09 | | |
| 4.011 | 13412 | 11642 | 0.868 | 0.05 | | |
| 4.298 | 532260 | 501440 | 0.942 | 2.19 | | |
| 4.344 | 140614 | 132592 | 0.943 | 0.58 | | |
| 4.374 | 22660 | 18151 | 0.801 | 0.09 | | |
| 4.501 | 315775 | 291472 | 0.923 | 1.30 | | |
| 4.535 | 32451 | 31917 | 0.984 | 0.13 | | |
| 4.632 | 138554 | 127356 | 0.919 | 0.57 | | |
| 4.702 | 19504 | 22995 | 1.179 | 0.08 | | |
| 4.899 | 118915 | 108209 | 0.910 | 0.49 | | |
| 4.933 | 470051 | 431905 | 0.919 | 1.93 | | |
| 4.980 | 1111171 | 876077 | 0.788 | 4.58 | | |
| 5.042 | 191764 | 159654 | 0.833 | 0.79 | | |
| 5.123 | 111718 | 86016 | 0.770 | 0.46 | | |
| 5.185 | 635245 | 552953 | 0.870 | 2.62 | | |
| 5.247 | 1204914 | 1082067 | 0.898 | 4.97 | 7 Aroclor 1254 | BA |
| 5.297 | 564212 | 480275 | 0.851 | 2.32 | | |
| 5.370 | 30671 | 29705 | 0.969 | 0.12 | | |
| 5.395 | 105146 | 85723 | 0.815 | 0.43 | | |
| 5.449 | 458488 | 421613 | 0.920 | 1.89 | | |
| 5.494 | 974769 | 846428 | 0.868 | 4.02 | 7 Aroclor 1254 | BA |
| 5.532 | 339130 | 285795 | 0.843 | 1.39 | | |
| 5.566 | 125700 | 121110 | 0.963 | 0.51 | | |
| 5.596 | 1813407 | 1570262 | 0.866 | 7.48 | 7 Aroclor 1254 | BA |
| 5.692 | 260436 | 213698 | 0.821 | 1.07 | | |
| 5.760 | 166748 | 147782 | 0.886 | 0.68 | | |
| 5.799 | 254610 | 156620 | 0.615 | 1.05 | | |
| 5.827 | 144880 | 122289 | 0.844 | 0.59 | | |
| 5.876 | 1871210 | 1322226 | 0.707 | 7.71 | | |
| 5.972 | 170241 | 123615 | 0.726 | 0.70 | | |
| 6.013 | 98405 | 61277 | 0.623 | 0.40 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.080 | 157569 | 140006 | 0.889 | 0.65 | |
| 6.115 | 1103101 | 935413 | 0.848 | 4.55 | 7 Aroclor 1254 |
| 6.141 | 893481 | 699043 | 0.782 | 3.68 | |
| 6.256 | 323732 | 257778 | 0.796 | 1.33 | |
| 6.314 | 247053 | 134935 | 0.546 | 1.01 | |
| 6.386 | 1532709 | 1284719 | 0.838 | 6.32 | 7 Aroclor 1254 |
| 6.421 | 298676 | 240768 | 0.806 | 1.23 | |
| 6.461 | 170298 | 131936 | 0.775 | 0.70 | |
| 6.521 | 36459 | 26677 | 0.732 | 0.15 | |
| 6.596 | 63504 | 56432 | 0.889 | 0.26 | |
| 6.624 | 510418 | 380918 | 0.746 | 2.10 | |
| 6.691 | 82335 | 60127 | 0.730 | 0.33 | |
| 6.806 | 99253 | 83565 | 0.842 | 0.40 | |
| 6.847 | 59639 | 53514 | 0.897 | 0.24 | |
| 6.889 | 278919 | 226915 | 0.814 | 1.15 | |
| 6.929 | 92957 | 56132 | 0.604 | 0.38 | |
| 7.030 | 27653 | 23009 | 0.832 | 0.11 | |
| 7.091 | 210951 | 166685 | 0.790 | 0.87 | |
| 7.161 | 9727 | 8068 | 0.829 | 0.04 | |
| 7.199 | 23691 | 14528 | 0.613 | 0.09 | |
| 7.339 | 162365 | 144320 | 0.889 | 0.66 | |
| 7.369 | 42779 | 31456 | 0.735 | 0.17 | |
| 7.525 | 10429 | 10067 | 0.965 | 0.04 | |
| 7.639 | 11279 | 10654 | 0.945 | 0.04 | |
| 7.838 | 27359 | 19069 | 0.697 | 0.11 | |
| 8.362 | 25639 | 18720 | 0.730 | 0.10 | |
| 8.441 | 34278 | 24983 | 0.729 | 0.14 | |
| 8.657 | 2693320 | 2289732 | 0.850 | 11.39 | |
| 9.002 | 66583 | 36898 | 0.554 | 0.27 | |
| 9.526 | 74251 | 48860 | 0.658 | 0.30 | |
| | 24239985 | 20447015 | | 100.000 | |

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Lab Smp Id: 1254-CAL2C  Client Smp ID: 1254-CAL2C
Inj Date : 03-MAY-2018 16:00
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 47  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 1204914 | 0.20000 | 0.21 | 0.00- 20.00 | 100.00(M) | BA |
| 5.494 | 5.492 | 0.002 | 974768 | 0.20000 | 0.21 | 0.00- 20.00 | 80.90 | BA |
| 5.595 | 5.596 | -0.001 | 1813406 | 0.20000 | 0.21 | 0.00- 20.00 | 150.50 | BA |
| 6.115 | 6.113 | 0.002 | 1103100 | 0.20000 | 0.21 | 0.00- 20.00 | 91.55 | BA |
| 6.386 | 6.387 | -0.001 | 1532709 | 0.20000 | 0.21 | 0.00- 20.00 | 127.20 | BA |
| Average of Peak Amounts = | | | | | 0.21000 | | | |

QC Flag Legend

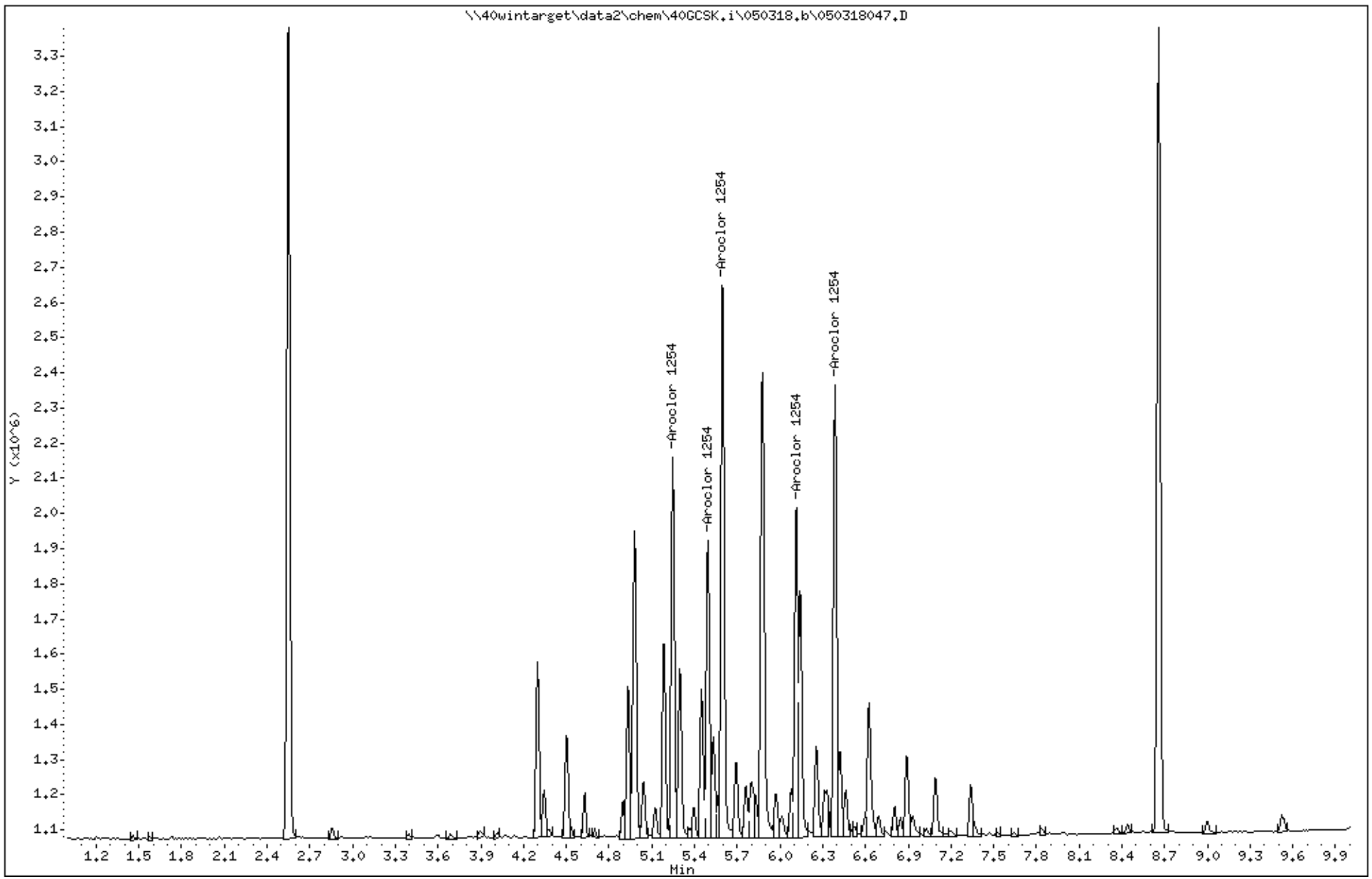
M - Compound response manually integrated.

Review Codes Legend

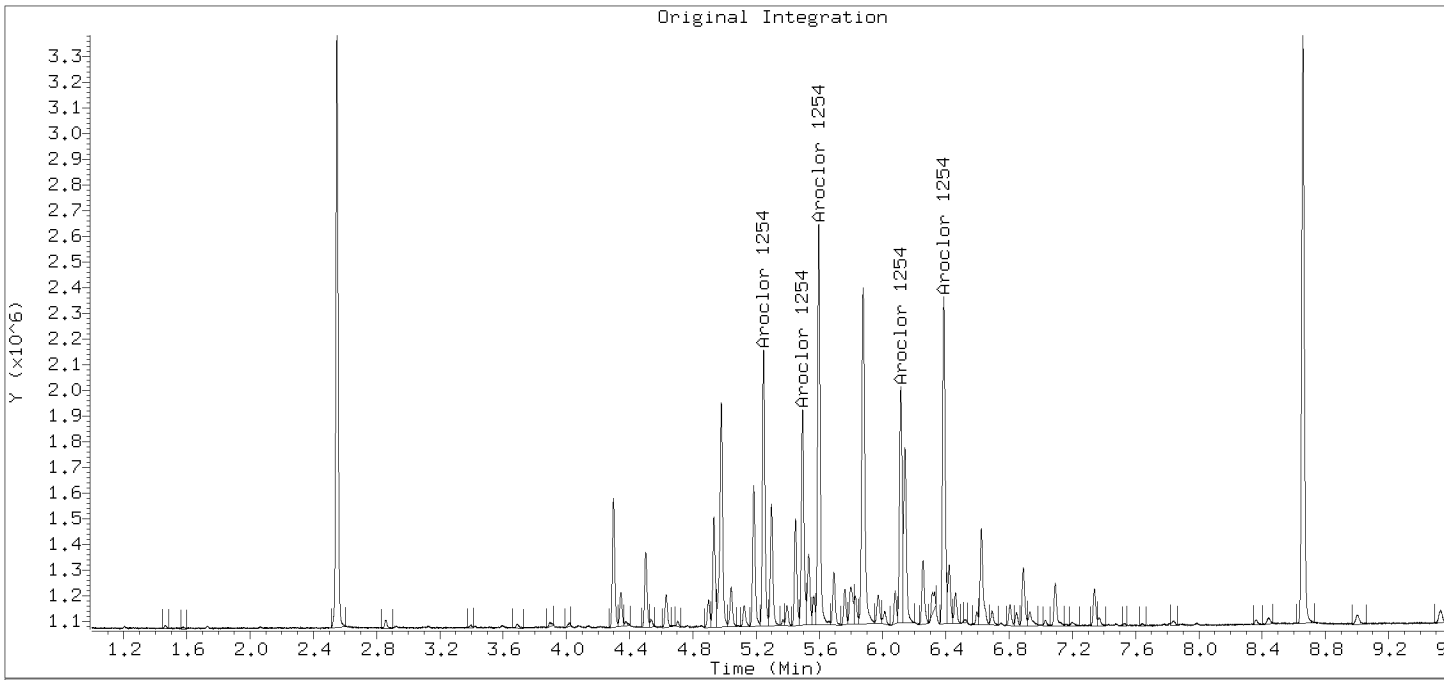
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

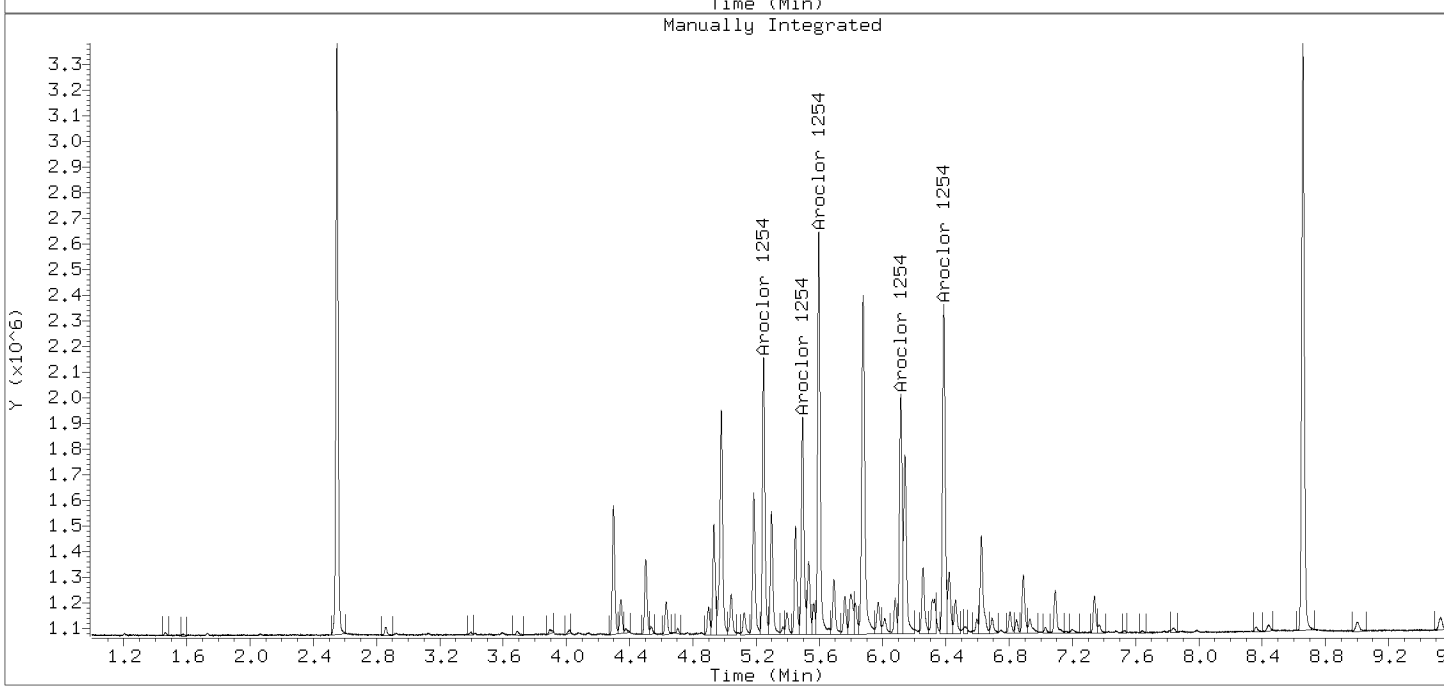
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Date : 03-MAY-2018 16:00
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSK.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318047.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:00 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL2C




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 1184550 | 1204914 | BA |
| Aroclor 1254 | 1184550 | 1204914 | BA |
| Aroclor 1254 | 1184550 | 1204914 | BA |
| Aroclor 1254 | 1184550 | 1204914 | BA |
| Aroclor 1254 | 1184550 | 1204914 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D
Lab Smp Id: 1254-CAL3C  Client Smp ID: 1254-CAL3C
Inj Date : 03-MAY-2018 16:16
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 49  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 37835 | 35474 | 0.938 | 0.06 | | |
| 1.466 | 39597 | 35698 | 0.902 | 0.06 | | |
| 1.576 | 18176 | 15489 | 0.852 | 0.03 | | |
| 1.732 | 34365 | 32003 | 0.931 | 0.05 | | |
| 2.061 | 23693 | 20781 | 0.877 | 0.04 | | |
| 2.187 | 10101 | 8447 | 0.836 | 0.01 | | |
| 2.550 | 5932452 | 5816414 | 0.980 | 10.05 | | |
| 2.635 | 18983 | 11914 | 0.628 | 0.03 | | |
| 2.692 | 10115 | 7094 | 0.701 | 0.01 | | |
| 2.859 | 84961 | 81260 | 0.956 | 0.14 | | |
| 2.923 | 19381 | 16844 | 0.869 | 0.03 | | |
| 3.094 | 11343 | 13784 | 1.215 | 0.01 | | |
| 3.126 | 18556 | 18060 | 0.973 | 0.03 | | |
| 3.395 | 31651 | 30528 | 0.965 | 0.05 | | |
| 3.422 | 18672 | 17504 | 0.937 | 0.03 | | |
| 3.595 | 29336 | 21389 | 0.729 | 0.04 | | |
| 3.690 | 37981 | 34842 | 0.917 | 0.06 | | |
| 3.896 | 49944 | 38416 | 0.769 | 0.08 | | |
| 4.017 | 57945 | 42879 | 0.740 | 0.09 | | |
| 4.077 | 32868 | 24767 | 0.754 | 0.05 | | |
| 4.135 | 44000 | 33113 | 0.753 | 0.07 | | |
| 4.298 | 1292772 | 1191173 | 0.921 | 2.19 | | |
| 4.345 | 367843 | 336923 | 0.916 | 0.62 | | |
| 4.376 | 103943 | 61941 | 0.596 | 0.17 | | |
| 4.437 | 12049 | 10184 | 0.845 | 0.02 | | |
| 4.502 | 779300 | 732839 | 0.940 | 1.32 | | |
| 4.537 | 84794 | 72452 | 0.854 | 0.14 | | |
| 4.631 | 349343 | 314711 | 0.901 | 0.59 | | |
| 4.676 | 13026 | 16600 | 1.274 | 0.02 | | |
| 4.703 | 62037 | 55595 | 0.896 | 0.10 | | |
| 4.765 | 11453 | 11835 | 1.033 | 0.01 | | |
| 4.826 | 12538 | 10120 | 0.807 | 0.02 | | |
| 4.854 | 22403 | 20240 | 0.903 | 0.03 | | |
| 4.899 | 288873 | 269348 | 0.932 | 0.48 | | |
| 4.934 | 1186043 | 1077721 | 0.909 | 2.01 | | |
| 4.980 | 2596262 | 1981481 | 0.763 | 4.40 | | |
| 5.043 | 457864 | 373896 | 0.817 | 0.77 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.125 | 261744 | 215755 | 0.824 | 0.44 | |
| 5.185 | 1519083 | 1320622 | 0.869 | 2.57 | |
| 5.248 | 2820996 | 2492333 | 0.883 | 4.78 | 7 Aroclor 1254 |
| 5.297 | 1339894 | 1139955 | 0.851 | 2.27 | |
| 5.371 | 78478 | 66897 | 0.852 | 0.13 | |
| 5.396 | 244180 | 210275 | 0.861 | 0.41 | |
| 5.450 | 1113776 | 1023899 | 0.919 | 1.88 | |
| 5.493 | 2359185 | 2038677 | 0.864 | 3.99 | 7 Aroclor 1254 |
| 5.532 | 826934 | 731388 | 0.884 | 1.40 | |
| 5.565 | 294996 | 288597 | 0.978 | 0.50 | |
| 5.597 | 4257857 | 3667028 | 0.861 | 7.21 | 7 Aroclor 1254 |
| 5.662 | 63960 | 50187 | 0.785 | 0.10 | |
| 5.692 | 616527 | 533934 | 0.866 | 1.04 | |
| 5.761 | 395193 | 359544 | 0.910 | 0.66 | |
| 5.798 | 582530 | 383686 | 0.659 | 0.98 | |
| 5.827 | 363835 | 298698 | 0.821 | 0.61 | |
| 5.877 | 4432898 | 3263759 | 0.736 | 7.51 | |
| 5.971 | 408091 | 291918 | 0.715 | 0.69 | |
| 6.014 | 227657 | 136073 | 0.598 | 0.38 | |
| 6.079 | 368305 | 335391 | 0.911 | 0.62 | |
| 6.114 | 2715408 | 2295921 | 0.846 | 4.60 | 7 Aroclor 1254 |
| 6.141 | 2099220 | 1672253 | 0.797 | 3.55 | |
| 6.255 | 811670 | 656830 | 0.809 | 1.37 | |
| 6.314 | 325653 | 323238 | 0.993 | 0.55 | |
| 6.327 | 370292 | 319230 | 0.862 | 0.62 | |
| 6.386 | 3689653 | 3134824 | 0.850 | 6.25 | 7 Aroclor 1254 |
| 6.421 | 697424 | 612540 | 0.878 | 1.18 | |
| 6.461 | 410361 | 308544 | 0.752 | 0.69 | |
| 6.522 | 116817 | 59043 | 0.505 | 0.19 | |
| 6.569 | 26996 | 22960 | 0.850 | 0.04 | |
| 6.597 | 141498 | 139354 | 0.985 | 0.23 | |
| 6.625 | 1265906 | 985732 | 0.779 | 2.14 | |
| 6.691 | 198604 | 147670 | 0.744 | 0.33 | |
| 6.747 | 42182 | 30697 | 0.728 | 0.07 | |
| 6.805 | 242570 | 201748 | 0.832 | 0.41 | |
| 6.847 | 148774 | 128853 | 0.866 | 0.25 | |
| 6.889 | 707464 | 598034 | 0.845 | 1.19 | |
| 6.929 | 227806 | 131125 | 0.576 | 0.38 | |
| 7.029 | 69143 | 56193 | 0.813 | 0.11 | |
| 7.091 | 510611 | 433920 | 0.850 | 0.86 | |
| 7.159 | 25013 | 18766 | 0.750 | 0.04 | |
| 7.200 | 21410 | 14925 | 0.697 | 0.03 | |
| 7.338 | 405949 | 373603 | 0.920 | 0.68 | |
| 7.369 | 94948 | 75940 | 0.800 | 0.16 | |
| 7.473 | 17738 | 16537 | 0.932 | 0.03 | |
| 7.528 | 27170 | 23543 | 0.867 | 0.04 | |
| 7.641 | 22620 | 18499 | 0.818 | 0.03 | |
| 7.775 | 17428 | 14750 | 0.846 | 0.02 | |
| 7.811 | 21798 | 19957 | 0.916 | 0.03 | |
| 7.837 | 27587 | 17033 | 0.617 | 0.04 | |
| 7.884 | 15072 | 11365 | 0.754 | 0.02 | |
| 7.988 | 25113 | 20638 | 0.822 | 0.04 | |
| 8.360 | 59088 | 47022 | 0.796 | 0.10 | |
| 8.439 | 19504 | 15486 | 0.794 | 0.03 | |
| 8.657 | 6539910 | 5484390 | 0.839 | 11.54 | |
| 9.004 | 20044 | 17972 | 0.897 | 0.03 | |
| 9.528 | 29817 | 18805 | 0.631 | 0.05 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| | 58986878 | 50210315 | | 100.000 | |

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D
Lab Smp Id: 1254-CAL3C  Client Smp ID: 1254-CAL3C
Inj Date : 03-MAY-2018 16:16
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 49  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 2820995 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 2359184 | 0.50000 | 0.50 | 0.00- 20.00 | 83.63 | BA |
| 5.596 | 5.596 | 0.000 | 4257856 | 0.50000 | 0.50 | 0.00- 20.00 | 150.93 | BA |
| 6.114 | 6.113 | 0.001 | 2715407 | 0.50000 | 0.51 | 0.00- 20.00 | 96.26 | BA |
| 6.385 | 6.387 | -0.002 | 3689653 | 0.50000 | 0.50 | 0.00- 20.00 | 130.79 | BA |
| Average of Peak Amounts = | | | | | 0.50200 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D



Date : 03-MAY-2018 16:16

Client ID: 1254-CAL3C

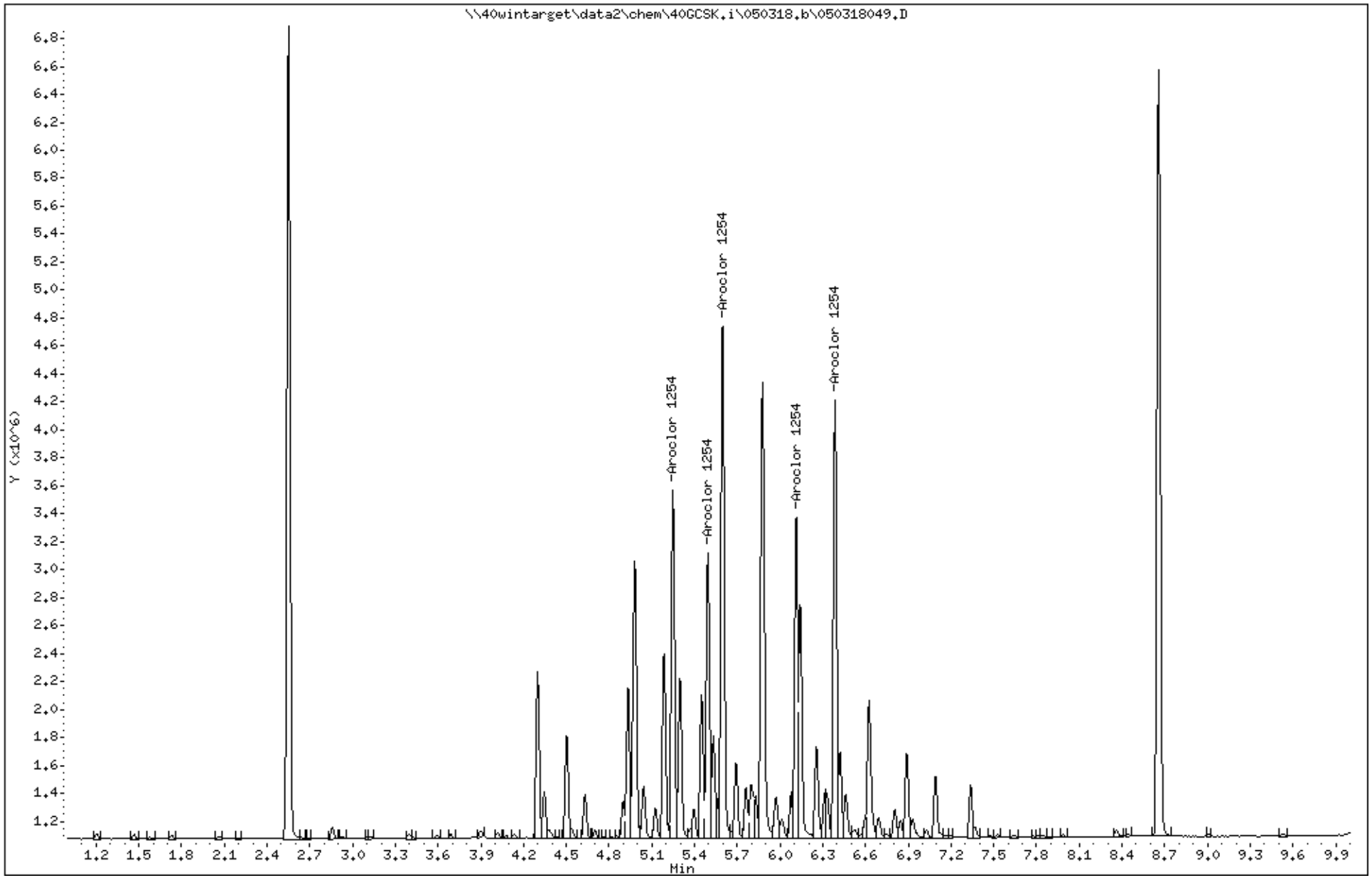
Instrument: 40GCSK.i

Sample Info: 1254-CAL3C, 185554:1

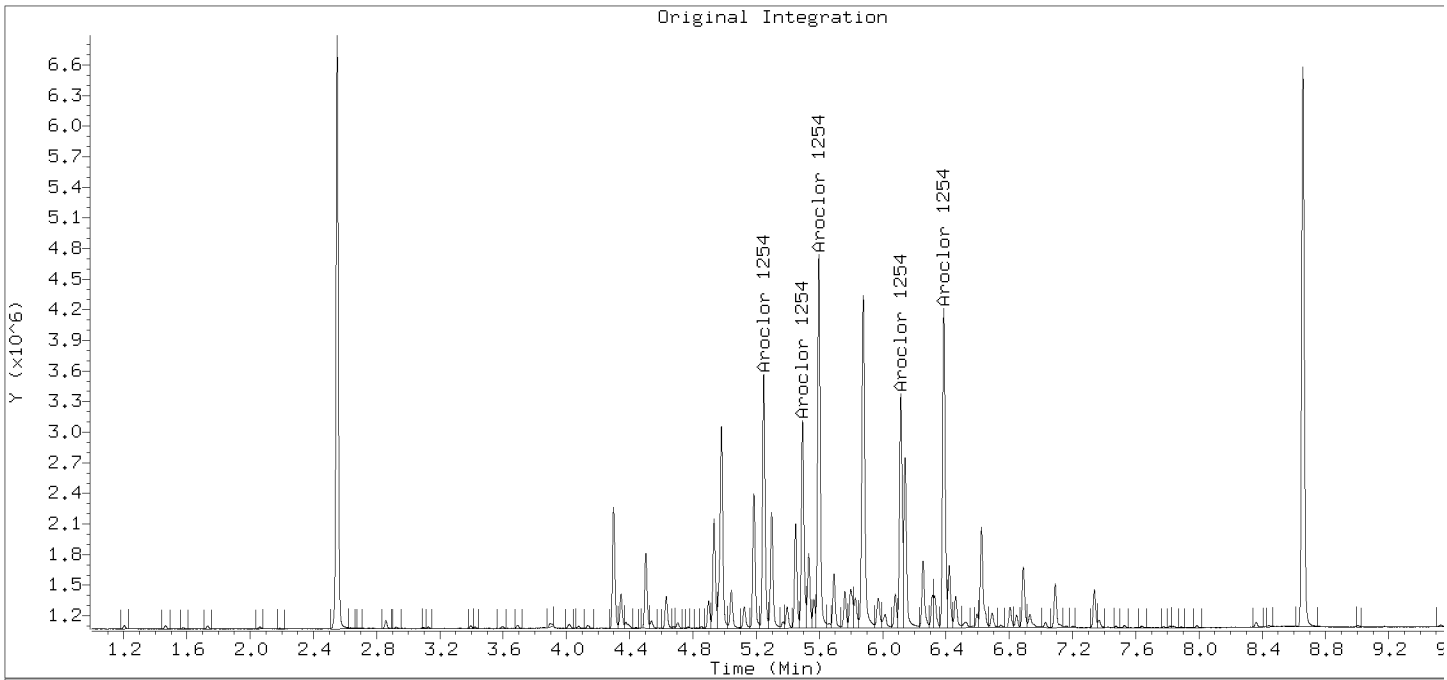
Operator: BLM

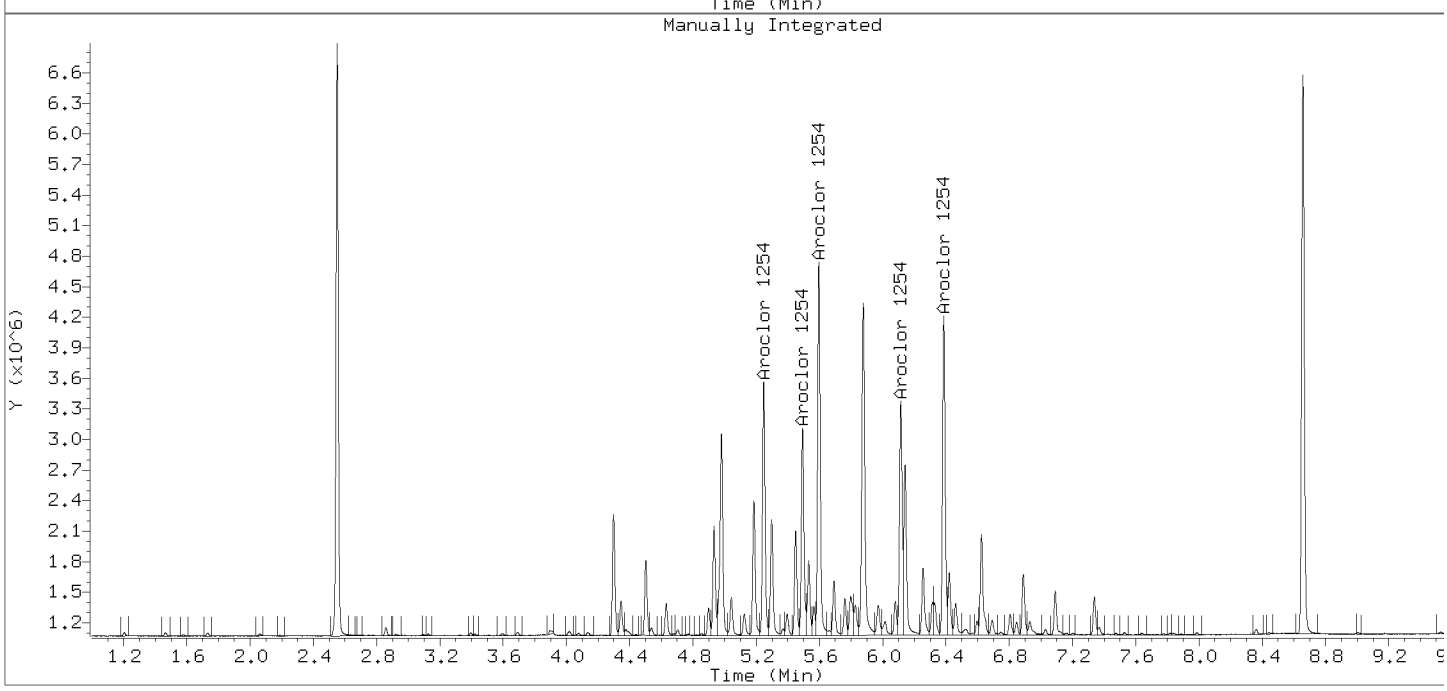
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318049.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:16 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL3C




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 2816439 | 2820995 | BA |
| Aroclor 1254 | 2816439 | 2820995 | BA |
| Aroclor 1254 | 2816439 | 2820995 | BA |
| Aroclor 1254 | 2816439 | 2820995 | BA |
| Aroclor 1254 | 2816439 | 2820995 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D
Lab Smp Id: 1254-CAL4C  Client Smp ID: 1254-CAL4C
Inj Date : 03-MAY-2018 16:33
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 51  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.465 | 65684 | 61659 | 0.939 | 0.06 | | |
| 1.577 | 31537 | 27048 | 0.858 | 0.03 | | |
| 1.733 | 12366 | 12998 | 1.051 | 0.01 | | |
| 2.550 | 11683383 | 11632747 | 0.996 | 12.38 | | |
| 2.637 | 26720 | 14830 | 0.555 | 0.02 | | |
| 2.859 | 159527 | 150368 | 0.943 | 0.16 | | |
| 2.926 | 27612 | 22793 | 0.825 | 0.02 | | |
| 3.128 | 33021 | 28927 | 0.876 | 0.03 | | |
| 3.397 | 44737 | 41720 | 0.933 | 0.04 | | |
| 3.423 | 22264 | 22658 | 1.018 | 0.02 | | |
| 3.595 | 44753 | 32102 | 0.717 | 0.04 | | |
| 3.692 | 72020 | 65910 | 0.915 | 0.07 | | |
| 3.897 | 153312 | 74518 | 0.486 | 0.16 | | |
| 4.018 | 81357 | 63382 | 0.779 | 0.08 | | |
| 4.079 | 34168 | 27641 | 0.809 | 0.03 | | |
| 4.141 | 26093 | 21512 | 0.824 | 0.02 | | |
| 4.298 | 1927412 | 1794044 | 0.931 | 2.04 | | |
| 4.345 | 536162 | 509102 | 0.950 | 0.56 | | |
| 4.377 | 91194 | 68612 | 0.752 | 0.09 | | |
| 4.502 | 1197329 | 1118396 | 0.934 | 1.26 | | |
| 4.538 | 126416 | 109095 | 0.863 | 0.13 | | |
| 4.631 | 547052 | 495193 | 0.905 | 0.57 | | |
| 4.677 | 25587 | 26088 | 1.020 | 0.02 | | |
| 4.705 | 100442 | 84951 | 0.846 | 0.10 | | |
| 4.768 | 21917 | 21338 | 0.974 | 0.02 | | |
| 4.821 | 12095 | 10981 | 0.908 | 0.01 | | |
| 4.856 | 26497 | 25464 | 0.961 | 0.02 | | |
| 4.899 | 440866 | 424263 | 0.962 | 0.46 | | |
| 4.933 | 1793346 | 1617117 | 0.902 | 1.90 | | |
| 4.980 | 3945093 | 3097918 | 0.785 | 4.18 | | |
| 5.043 | 683611 | 584001 | 0.854 | 0.72 | | |
| 5.124 | 393711 | 327766 | 0.833 | 0.41 | | |
| 5.185 | 2282401 | 1981406 | 0.868 | 2.41 | | |
| 5.247 | 4265468 | 3851747 | 0.903 | 4.51 | 7 Aroclor 1254 | BA |
| 5.298 | 2014750 | 1726517 | 0.857 | 2.13 | | |
| 5.371 | 103933 | 101295 | 0.975 | 0.11 | | |
| 5.395 | 363491 | 315114 | 0.867 | 0.38 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.449 | 1698997 | 1522319 | 0.896 | 1.80 | |
| 5.493 | 3602658 | 3189660 | 0.885 | 3.81 | 7 Aroclor 1254 |
| 5.532 | 1273481 | 1101311 | 0.865 | 1.34 | |
| 5.565 | 450864 | 442328 | 0.981 | 0.47 | |
| 5.596 | 6550878 | 5920954 | 0.904 | 6.94 | 7 Aroclor 1254 |
| 5.661 | 82459 | 72405 | 0.878 | 0.08 | |
| 5.691 | 946985 | 808121 | 0.853 | 1.00 | |
| 5.761 | 590445 | 548094 | 0.928 | 0.62 | |
| 5.798 | 884538 | 603241 | 0.682 | 0.93 | |
| 5.826 | 591834 | 473013 | 0.799 | 0.62 | |
| 5.876 | 6761205 | 5265675 | 0.779 | 7.16 | |
| 5.972 | 613558 | 459719 | 0.749 | 0.65 | |
| 6.015 | 336284 | 208057 | 0.619 | 0.35 | |
| 6.078 | 560655 | 523254 | 0.933 | 0.59 | |
| 6.114 | 4202015 | 3447687 | 0.820 | 4.45 | 7 Aroclor 1254 |
| 6.141 | 3138434 | 2580695 | 0.822 | 3.32 | |
| 6.255 | 1230649 | 1021355 | 0.830 | 1.30 | |
| 6.313 | 489163 | 512093 | 1.047 | 0.51 | |
| 6.328 | 582659 | 487233 | 0.836 | 0.61 | |
| 6.386 | 5660183 | 4791028 | 0.846 | 5.99 | 7 Aroclor 1254 |
| 6.421 | 1080088 | 942313 | 0.872 | 1.14 | |
| 6.462 | 620777 | 483904 | 0.780 | 0.65 | |
| 6.524 | 154276 | 82086 | 0.532 | 0.16 | |
| 6.568 | 30343 | 29586 | 0.975 | 0.03 | |
| 6.596 | 213357 | 211456 | 0.991 | 0.22 | |
| 6.625 | 1935628 | 1497645 | 0.774 | 2.05 | |
| 6.692 | 287310 | 216730 | 0.754 | 0.30 | |
| 6.745 | 54191 | 39587 | 0.731 | 0.05 | |
| 6.805 | 359451 | 307282 | 0.855 | 0.38 | |
| 6.846 | 216621 | 192842 | 0.890 | 0.22 | |
| 6.889 | 1089060 | 926460 | 0.851 | 1.15 | |
| 6.930 | 320881 | 196565 | 0.613 | 0.34 | |
| 7.028 | 93162 | 81639 | 0.876 | 0.09 | |
| 7.091 | 780203 | 647722 | 0.830 | 0.82 | |
| 7.158 | 30199 | 24153 | 0.800 | 0.03 | |
| 7.338 | 629536 | 559662 | 0.889 | 0.66 | |
| 7.368 | 137748 | 117880 | 0.856 | 0.14 | |
| 7.474 | 23193 | 24382 | 1.051 | 0.02 | |
| 7.529 | 39318 | 34748 | 0.884 | 0.04 | |
| 7.639 | 20973 | 20106 | 0.959 | 0.02 | |
| 7.777 | 22594 | 20265 | 0.897 | 0.02 | |
| 7.816 | 48391 | 32644 | 0.675 | 0.05 | |
| 7.888 | 19778 | 15264 | 0.772 | 0.02 | |
| 7.986 | 35220 | 31361 | 0.890 | 0.03 | |
| 8.362 | 104579 | 86428 | 0.826 | 0.11 | |
| 8.657 | 12334179 | 10422811 | 0.845 | 13.50 | |
| 9.173 | 14317 | 11451 | 0.800 | 0.01 | |
| 9.528 | 11846 | 8418 | 0.711 | 0.01 | |
| | 94372489 | 81834853 | | 100.000 | |

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D
Lab Smp Id: 1254-CAL4C  Client Smp ID: 1254-CAL4C
Inj Date : 03-MAY-2018 16:33
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 51  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 4265468 | 0.80000 | 0.76 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 3602657 | 0.80000 | 0.77 | 0.00- 20.00 | 84.46 | BA |
| 5.596 | 5.596 | 0.000 | 6550878 | 0.80000 | 0.76 | 0.00- 20.00 | 153.58 | BA |
| 6.113 | 6.113 | 0.000 | 4202015 | 0.80000 | 0.79 | 0.00- 20.00 | 98.51 | BA |
| 6.386 | 6.387 | -0.001 | 5660182 | 0.80000 | 0.77 | 0.00- 20.00 | 132.70 | BA |
| Average of Peak Amounts = | | | | | 0.77000 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D



Date : 03-MAY-2018 16:33

Client ID: 1254-CAL4C

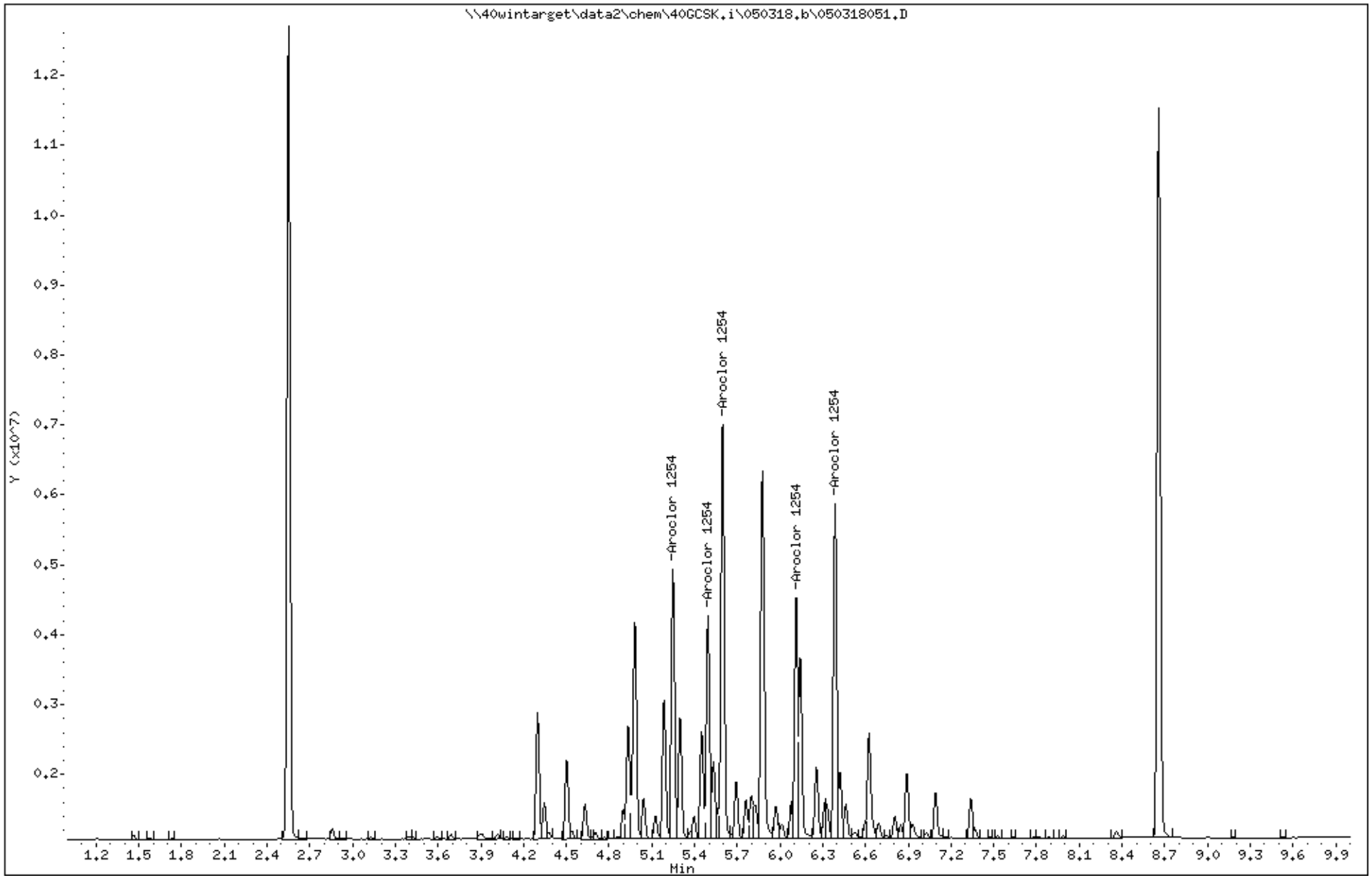
Instrument: 40GCSK.i

Sample Info: 1254-CAL4C, 185555:1

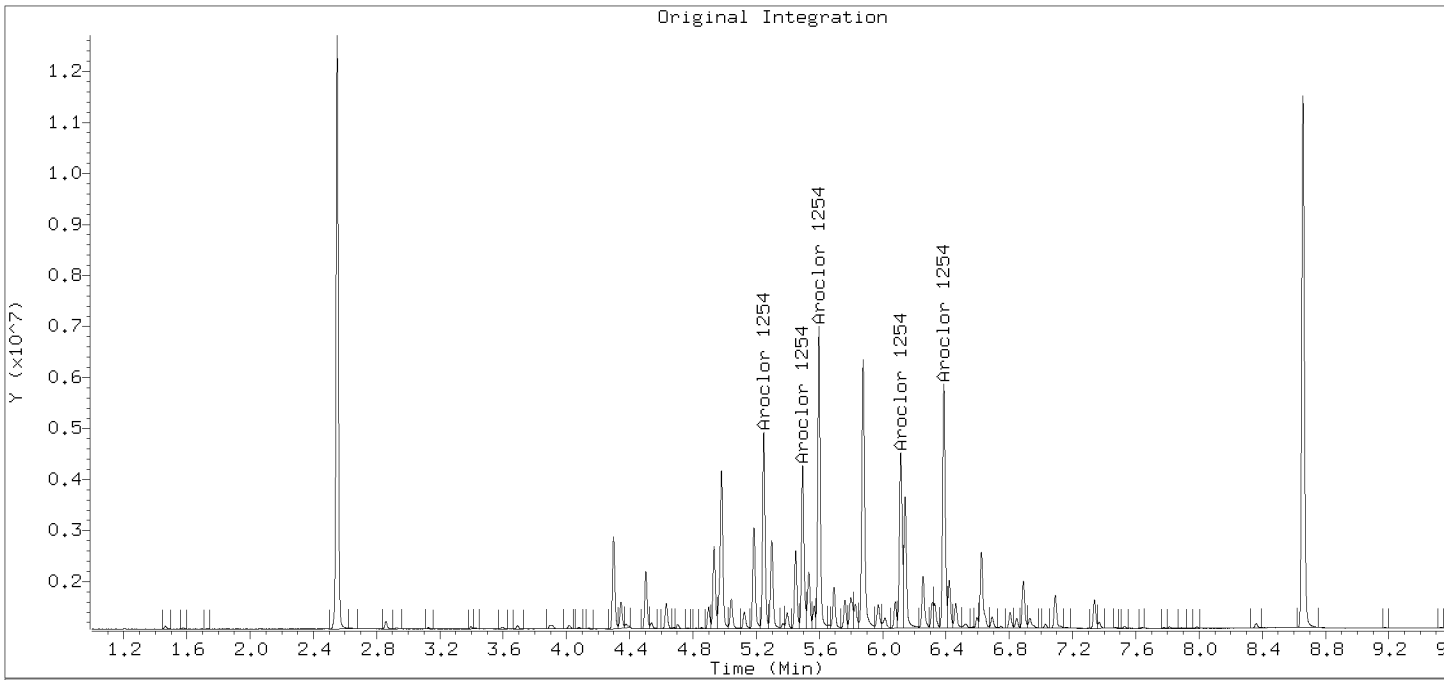
Operator: BLM

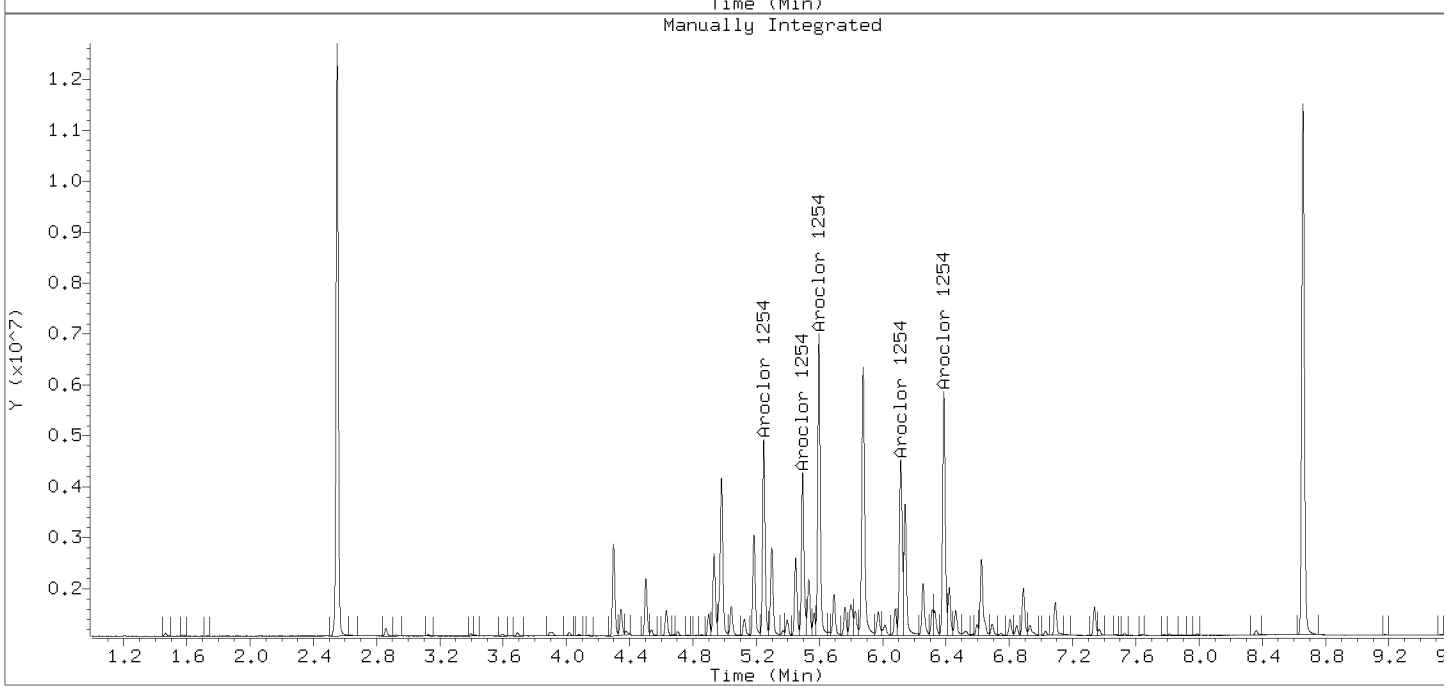
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318051.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:33 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL4C




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 4259785 | 4265468 | BA |
| Aroclor 1254 | 4259785 | 4265468 | BA |
| Aroclor 1254 | 4259785 | 4265468 | BA |
| Aroclor 1254 | 4259785 | 4265468 | BA |
| Aroclor 1254 | 4259785 | 4265468 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D
Lab Smp Id: 1254-CAL5C  Client Smp ID: 1254-CAL5C
Inj Date : 03-MAY-2018 16:49
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 53  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.465 | 94334 | 86720 | 0.919 | 0.07 | | |
| 1.576 | 36255 | 34026 | 0.939 | 0.02 | | |
| 1.732 | 17140 | 14805 | 0.864 | 0.01 | | |
| 2.550 | 17051478 | 16946835 | 0.994 | 14.06 | | |
| 2.639 | 22453 | 18346 | 0.817 | 0.01 | | |
| 2.859 | 220655 | 213532 | 0.968 | 0.18 | | |
| 2.927 | 36286 | 27800 | 0.766 | 0.02 | | |
| 3.126 | 42563 | 39252 | 0.922 | 0.03 | | |
| 3.396 | 52012 | 50388 | 0.969 | 0.04 | | |
| 3.424 | 26224 | 27473 | 1.048 | 0.02 | | |
| 3.592 | 32608 | 29565 | 0.907 | 0.02 | | |
| 3.691 | 107216 | 98994 | 0.923 | 0.08 | | |
| 3.813 | 13209 | 11542 | 0.874 | 0.01 | | |
| 3.839 | 9830 | 12473 | 1.269 | 0.00 | | |
| 3.896 | 102271 | 73903 | 0.723 | 0.08 | | |
| 4.020 | 112605 | 77763 | 0.691 | 0.09 | | |
| 4.079 | 51765 | 35867 | 0.693 | 0.04 | | |
| 4.142 | 33783 | 28623 | 0.847 | 0.02 | | |
| 4.222 | 12944 | 13230 | 1.022 | 0.01 | | |
| 4.298 | 2315280 | 2151788 | 0.929 | 1.90 | | |
| 4.345 | 684998 | 636086 | 0.929 | 0.56 | | |
| 4.377 | 169950 | 103681 | 0.610 | 0.14 | | |
| 4.502 | 1444478 | 1336988 | 0.926 | 1.19 | | |
| 4.538 | 164640 | 133752 | 0.812 | 0.13 | | |
| 4.631 | 653091 | 599940 | 0.919 | 0.53 | | |
| 4.677 | 25779 | 28683 | 1.113 | 0.02 | | |
| 4.704 | 110616 | 102750 | 0.929 | 0.09 | | |
| 4.766 | 30433 | 24898 | 0.818 | 0.02 | | |
| 4.855 | 36721 | 33792 | 0.920 | 0.03 | | |
| 4.899 | 547237 | 514211 | 0.940 | 0.45 | | |
| 4.933 | 2162870 | 1965897 | 0.909 | 1.78 | | |
| 4.980 | 4735184 | 3665602 | 0.774 | 3.90 | | |
| 5.043 | 829431 | 710466 | 0.857 | 0.68 | | |
| 5.124 | 484685 | 410303 | 0.847 | 0.39 | | |
| 5.185 | 2751118 | 2404196 | 0.874 | 2.26 | | |
| 5.247 | 5147482 | 4568390 | 0.887 | 4.24 | 7 Aroclor 1254 | BA |
| 5.298 | 2413870 | 2105073 | 0.872 | 1.99 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.370 | 138573 | 121039 | 0.873 | 0.11 | |
| 5.395 | 438665 | 387223 | 0.883 | 0.36 | |
| 5.449 | 2036584 | 1831316 | 0.899 | 1.67 | |
| 5.494 | 4385746 | 3852821 | 0.878 | 3.61 | 7 Aroclor 1254 |
| 5.533 | 1537460 | 1338919 | 0.871 | 1.26 | |
| 5.565 | 549124 | 535190 | 0.975 | 0.45 | |
| 5.596 | 7950560 | 7103175 | 0.893 | 6.55 | 7 Aroclor 1254 |
| 5.664 | 96913 | 84405 | 0.871 | 0.07 | |
| 5.692 | 1152364 | 1005968 | 0.873 | 0.95 | |
| 5.761 | 726308 | 677496 | 0.933 | 0.59 | |
| 5.799 | 1106459 | 742290 | 0.671 | 0.91 | |
| 5.826 | 701585 | 567727 | 0.809 | 0.57 | |
| 5.876 | 8232694 | 6386108 | 0.776 | 6.79 | |
| 5.971 | 748845 | 562793 | 0.752 | 0.61 | |
| 6.015 | 420548 | 254894 | 0.606 | 0.34 | |
| 6.079 | 681450 | 635494 | 0.933 | 0.56 | |
| 6.115 | 5115409 | 4233800 | 0.828 | 4.21 | 7 Aroclor 1254 |
| 6.141 | 3831855 | 3076138 | 0.803 | 3.16 | |
| 6.255 | 1502470 | 1234099 | 0.821 | 1.23 | |
| 6.314 | 655939 | 643199 | 0.981 | 0.54 | |
| 6.329 | 672542 | 603144 | 0.897 | 0.55 | |
| 6.386 | 6918347 | 5807228 | 0.839 | 5.70 | 7 Aroclor 1254 |
| 6.421 | 1316858 | 1131554 | 0.859 | 1.08 | |
| 6.462 | 764690 | 609103 | 0.797 | 0.63 | |
| 6.523 | 201974 | 104245 | 0.516 | 0.16 | |
| 6.571 | 39280 | 37864 | 0.964 | 0.03 | |
| 6.597 | 270894 | 258316 | 0.954 | 0.22 | |
| 6.624 | 2365431 | 1810281 | 0.765 | 1.95 | |
| 6.692 | 363846 | 277910 | 0.764 | 0.30 | |
| 6.747 | 67363 | 53138 | 0.789 | 0.05 | |
| 6.805 | 456988 | 389283 | 0.852 | 0.37 | |
| 6.846 | 267541 | 240335 | 0.898 | 0.22 | |
| 6.889 | 1370844 | 1166806 | 0.851 | 1.13 | |
| 6.930 | 395439 | 246723 | 0.624 | 0.32 | |
| 7.029 | 125501 | 106467 | 0.848 | 0.10 | |
| 7.091 | 958695 | 795363 | 0.830 | 0.79 | |
| 7.163 | 39793 | 34404 | 0.865 | 0.03 | |
| 7.210 | 31482 | 16729 | 0.531 | 0.02 | |
| 7.303 | 9681 | 8830 | 0.912 | 0.00 | |
| 7.339 | 791579 | 686316 | 0.867 | 0.65 | |
| 7.368 | 187084 | 149994 | 0.802 | 0.15 | |
| 7.428 | 25072 | 15619 | 0.623 | 0.02 | |
| 7.476 | 44530 | 33430 | 0.751 | 0.03 | |
| 7.530 | 56979 | 45820 | 0.804 | 0.04 | |
| 7.640 | 37498 | 33355 | 0.890 | 0.03 | |
| 7.779 | 21862 | 22077 | 1.010 | 0.01 | |
| 7.816 | 45182 | 41661 | 0.922 | 0.03 | |
| 7.887 | 17521 | 19811 | 1.131 | 0.01 | |
| 7.989 | 42040 | 36301 | 0.863 | 0.03 | |
| 8.362 | 142934 | 126713 | 0.887 | 0.11 | |
| 8.442 | 20192 | 15214 | 0.753 | 0.01 | |
| 8.607 | 10919 | 12976 | 1.188 | 0.00 | |
| 8.658 | 18249779 | 15515986 | 0.850 | 15.50 | |
| 9.002 | 35513 | 24490 | 0.690 | 0.02 | |
| 9.172 | 27699 | 16350 | 0.590 | 0.02 | |
| 9.527 | 56480 | 33752 | 0.598 | 0.04 | |
| | 121243103 | 105139315 | | 100.000 | |

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D
Lab Smp Id: 1254-CAL5C  Client Smp ID: 1254-CAL5C
Inj Date : 03-MAY-2018 16:49
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 53  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: NSAR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 5147482 | 1.00000 | 0.91 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 4385746 | 1.00000 | 0.94 | 0.00- 20.00 | 85.20 | BA |
| 5.595 | 5.596 | -0.001 | 7950560 | 1.00000 | 0.93 | 0.00- 20.00 | 154.46 | BA |
| 6.114 | 6.113 | 0.001 | 5115408 | 1.00000 | 0.96 | 0.00- 20.00 | 99.38 | BA |
| 6.386 | 6.387 | -0.001 | 6918346 | 1.00000 | 0.94 | 0.00- 20.00 | 134.40 | BA |
| Average of Peak Amounts = | | | | | 0.93600 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D



Date : 03-MAY-2018 16:49

Client ID: 1254-CAL5C

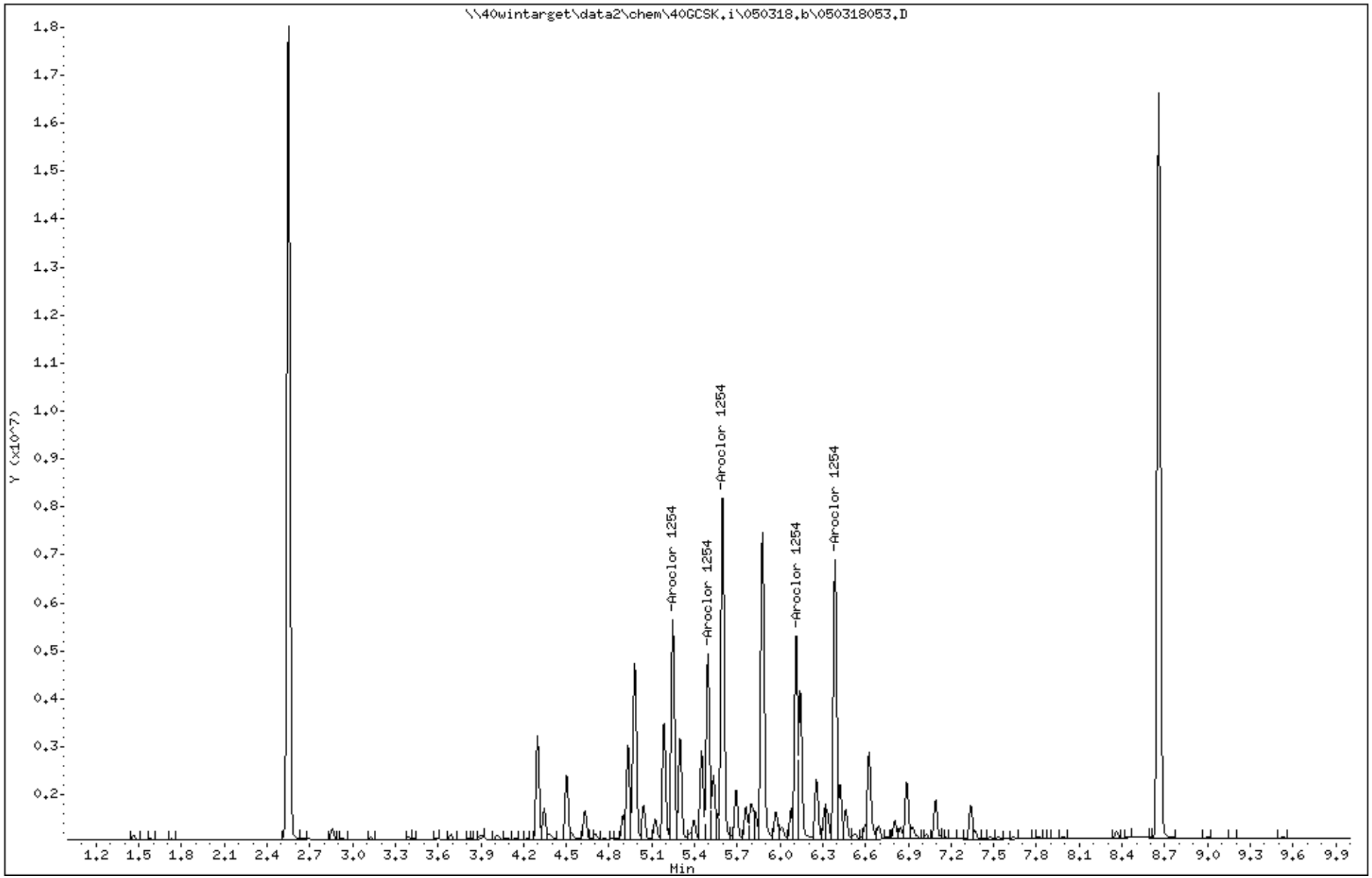
Instrument: 40GCSK.i

Sample Info: 1254-CAL5C, 185556:1

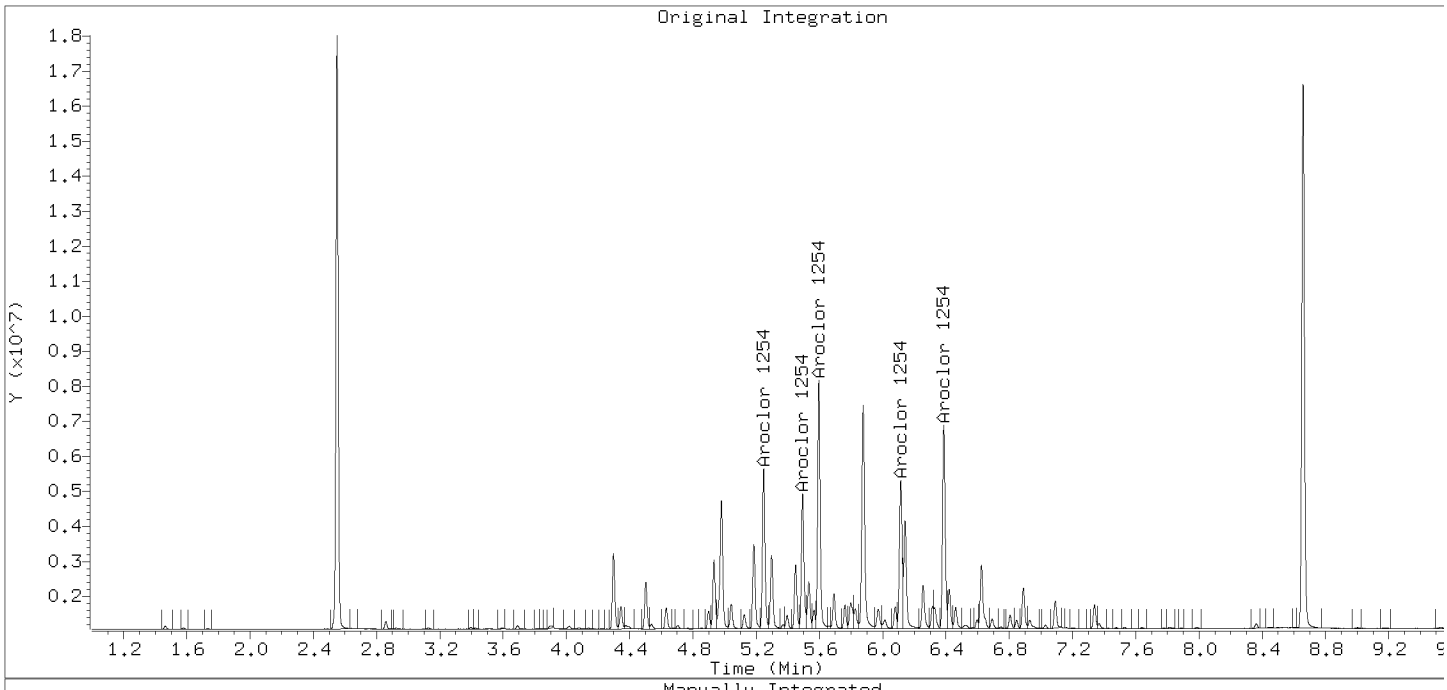
Operator: BLM

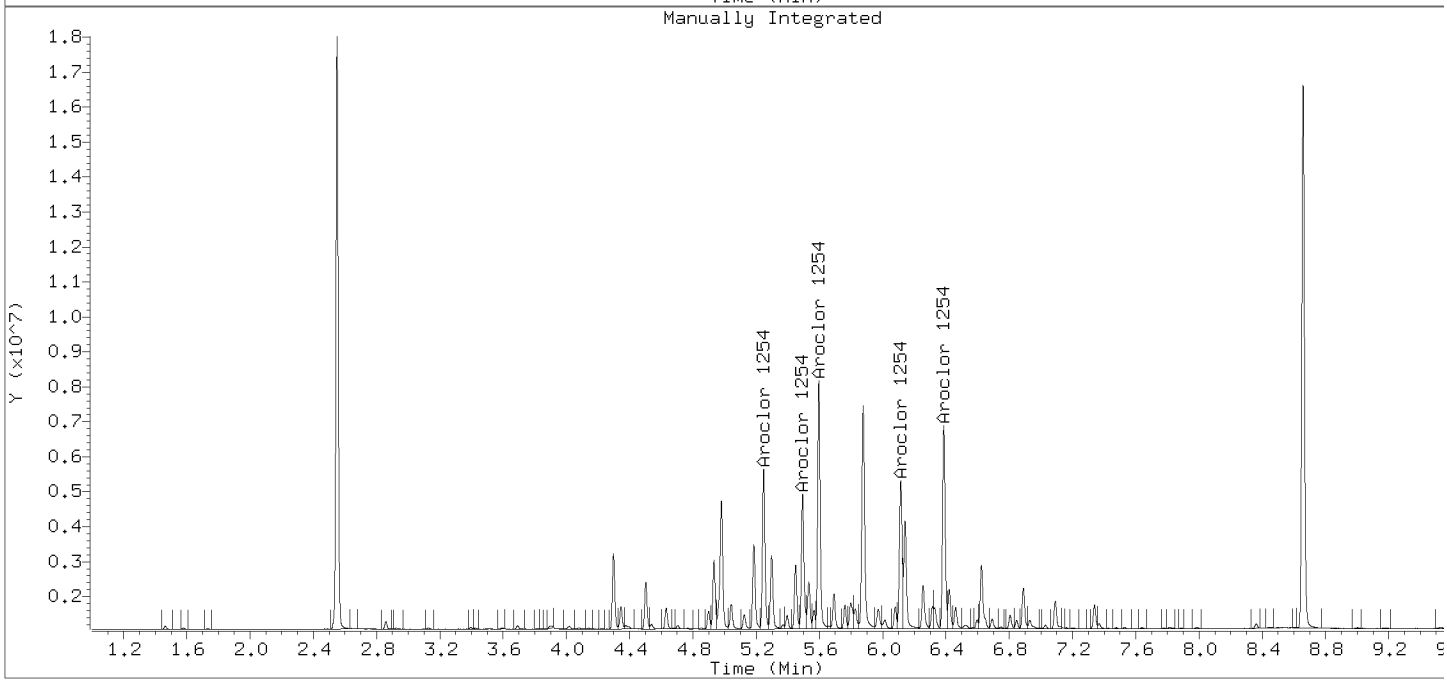
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318053.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:49 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL5C




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 5127685 | 5147482 | BA |
| Aroclor 1254 | 5127685 | 5147482 | BA |
| Aroclor 1254 | 5127685 | 5147482 | BA |
| Aroclor 1254 | 5127685 | 5147482 | BA |
| Aroclor 1254 | 5127685 | 5147482 | BA |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318057.D
Lab Smp Id: 1660-CAL1A  Client Smp ID: 1660-CAL1A
Inj Date : 03-MAY-2018 17:21
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 57  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.465 | 10247 | 9652 | 0.942 | 0.05 | | |
| 1.732 | 14350 | 12450 | 0.868 | 0.07 | | |
| 2.468 | 36532 | 24347 | 0.666 | 0.18 | | |
| 2.549 | 1227409 | 1217132 | 0.992 | 6.12 | $ 2 Tetrachloro-m-xylene | |
| 2.756 | 42687 | 31112 | 0.729 | 0.21 | | |
| 2.861 | 69719 | 55931 | 0.802 | 0.34 | | |
| 2.924 | 243914 | 203480 | 0.834 | 1.21 | | |
| 3.130 | 37053 | 32411 | 0.875 | 0.18 | | |
| 3.396 | 322684 | 304278 | 0.943 | 1.60 | 5 Aroclor 1016 | BA |
| 3.421 | 215868 | 179673 | 0.832 | 1.07 | | |
| 3.514 | 61445 | 48044 | 0.782 | 0.30 | | |
| 3.593 | 342688 | 235856 | 0.688 | 1.70 | 5 Aroclor 1016 | BA |
| 3.778 | 12543 | 11477 | 0.915 | 0.06 | | |
| 3.815 | 84766 | 75498 | 0.891 | 0.42 | | |
| 3.838 | 60858 | 49359 | 0.811 | 0.30 | | |
| 3.910 | 979205 | 517819 | 0.529 | 4.88 | 5 Aroclor 1016 | BA |
| 4.013 | 428320 | 312930 | 0.731 | 2.13 | 5 Aroclor 1016 | BA |
| 4.079 | 284693 | 226580 | 0.796 | 1.41 | 5 Aroclor 1016 | BA |
| 4.144 | 95783 | 74440 | 0.777 | 0.47 | | |
| 4.220 | 47557 | 30577 | 0.643 | 0.23 | | |
| 4.298 | 249804 | 222516 | 0.891 | 1.24 | | |
| 4.345 | 223814 | 202492 | 0.905 | 1.11 | | |
| 4.377 | 92449 | 94775 | 1.025 | 0.46 | | |
| 4.393 | 132590 | 107876 | 0.814 | 0.66 | | |
| 4.502 | 300026 | 278211 | 0.927 | 1.49 | | |
| 4.537 | 243650 | 174043 | 0.714 | 1.21 | | |
| 4.632 | 402541 | 336843 | 0.837 | 2.00 | | |
| 4.703 | 94872 | 80696 | 0.851 | 0.47 | | |
| 4.810 | 20642 | 15065 | 0.730 | 0.10 | | |
| 4.852 | 16498 | 13417 | 0.813 | 0.08 | | |
| 4.899 | 71514 | 59090 | 0.826 | 0.35 | | |
| 4.935 | 114099 | 92519 | 0.811 | 0.56 | | |
| 4.981 | 367590 | 263634 | 0.717 | 1.83 | | |
| 5.042 | 31961 | 21994 | 0.688 | 0.15 | | |
| 5.124 | 26737 | 18762 | 0.702 | 0.13 | | |
| 5.187 | 84559 | 66271 | 0.784 | 0.42 | | |
| 5.248 | 305589 | 259096 | 0.848 | 1.52 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.448 | 24666 | 19310 | 0.783 | 0.12 | |
| 5.493 | 84190 | 69977 | 0.831 | 0.41 | |
| 5.566 | 123949 | 109795 | 0.886 | 0.61 | |
| 5.597 | 209060 | 171966 | 0.823 | 1.04 | |
| 5.761 | 302587 | 277877 | 0.918 | 1.50 | |
| 5.794 | 204612 | 118225 | 0.578 | 1.02 | |
| 5.872 | 801684 | 657691 | 0.820 | 3.99 | |
| 5.970 | 58037 | 46868 | 0.808 | 0.28 | |
| 6.014 | 34635 | 22947 | 0.663 | 0.17 | |
| 6.080 | 131616 | 118014 | 0.897 | 0.65 | |
| 6.117 | 271125 | 270698 | 0.998 | 1.35 | |
| 6.141 | 911552 | 765770 | 0.840 | 4.54 | |
| 6.255 | 539217 | 325985 | 0.605 | 2.68 | |
| 6.344 | 119272 | 74215 | 0.622 | 0.59 | |
| 6.387 | 1045305 | 836242 | 0.800 | 5.21 | 8 Aroclor 1260 |
| 6.420 | 173431 | 134513 | 0.776 | 0.86 | |
| 6.461 | 59449 | 34925 | 0.587 | 0.29 | |
| 6.518 | 112865 | 94792 | 0.840 | 0.56 | |
| 6.572 | 22738 | 29840 | 1.312 | 0.11 | |
| 6.596 | 514407 | 457840 | 0.890 | 2.56 | |
| 6.624 | 95191 | 98434 | 1.034 | 0.47 | |
| 6.647 | 325459 | 274084 | 0.842 | 1.62 | |
| 6.694 | 46415 | 27915 | 0.601 | 0.23 | |
| 6.748 | 106289 | 88052 | 0.828 | 0.53 | |
| 6.805 | 547247 | 482862 | 0.882 | 2.72 | |
| 6.847 | 315822 | 271911 | 0.861 | 1.57 | |
| 6.891 | 247950 | 208600 | 0.841 | 1.23 | |
| 6.924 | 55965 | 44915 | 0.803 | 0.27 | |
| 6.956 | 30891 | 25267 | 0.818 | 0.15 | |
| 7.000 | 35541 | 33701 | 0.948 | 0.17 | |
| 7.029 | 111886 | 94963 | 0.849 | 0.55 | |
| 7.091 | 1218315 | 1024411 | 0.841 | 6.07 | 8 Aroclor 1260 |
| 7.119 | 100728 | 96137 | 0.954 | 0.50 | |
| 7.161 | 56883 | 36867 | 0.648 | 0.28 | |
| 7.206 | 59770 | 46158 | 0.772 | 0.29 | |
| 7.338 | 569122 | 493548 | 0.867 | 2.83 | 8 Aroclor 1260 |
| 7.370 | 181180 | 136845 | 0.755 | 0.90 | |
| 7.476 | 298191 | 235098 | 0.788 | 1.48 | |
| 7.530 | 356951 | 293810 | 0.823 | 1.78 | 8 Aroclor 1260 |
| 7.640 | 24618 | 20999 | 0.853 | 0.12 | |
| 7.778 | 143129 | 124849 | 0.872 | 0.71 | |
| 7.815 | 28185 | 22171 | 0.787 | 0.14 | |
| 7.885 | 28937 | 15927 | 0.550 | 0.14 | |
| 7.987 | 330223 | 256266 | 0.776 | 1.64 | 8 Aroclor 1260 |
| 8.052 | 28512 | 22127 | 0.776 | 0.14 | |
| 8.361 | 90146 | 70358 | 0.780 | 0.44 | |
| 8.658 | 1475186 | 1246378 | 0.845 | 7.78 | $ 12 Decachlorobiphenyl |
| | 20050386 | 16390489 | | 100.000 | |

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318057.D
Lab Smp Id: 1660-CAL1A  Client Smp ID: 1660-CAL1A
Inj Date : 03-MAY-2018 17:21
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21  Cal File: 050318057.D
Als bottle: 57  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 1227409 | 0.01000 | 0.010 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.396 | 3.395 | 0.001 | 322683 | 0.10000 | 0.10 | 0.00- 20.00 | 100.00(M) | BA |
| 3.592 | 3.592 | 0.000 | 342687 | 0.10000 | 0.11 | 0.00- 20.00 | 106.20 | BA |
| 3.910 | 3.909 | 0.001 | 979205 | 0.10000 | 0.10 | 0.00- 20.00 | 303.46 | BA |
| 4.012 | 4.011 | 0.001 | 428319 | 0.10000 | 0.11 | 0.00- 20.00 | 132.74 | BA |
| 4.079 | 4.078 | 0.001 | 284693 | 0.10000 | 0.10 | 0.00- 20.00 | 88.23 | BA |
| Average of Peak Amounts = | | | | | 0.10400 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 1045304 | 0.10000 | 0.10 | 0.00- 20.00 | 100.00(M) | CO |
| 7.090 | 7.090 | 0.000 | 1218315 | 0.10000 | 0.10 | 0.00- 20.00 | 116.55 | CO |
| 7.338 | 7.338 | 0.000 | 569122 | 0.10000 | 0.10 | 0.00- 20.00 | 54.45 | CO |
| 7.529 | 7.529 | 0.000 | 356951 | 0.10000 | 0.10 | 0.00- 20.00 | 34.15 | CO |
| 7.987 | 7.987 | 0.000 | 330223 | 0.10000 | 0.10 | 0.00- 20.00 | 31.59 | CO |
| Average of Peak Amounts = | | | | | 0.10000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 1475185 | 0.01000 | 0.011 | | | |

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318057.D



Date : 03-MAY-2018 17:21

Client ID: 1660-CAL1A

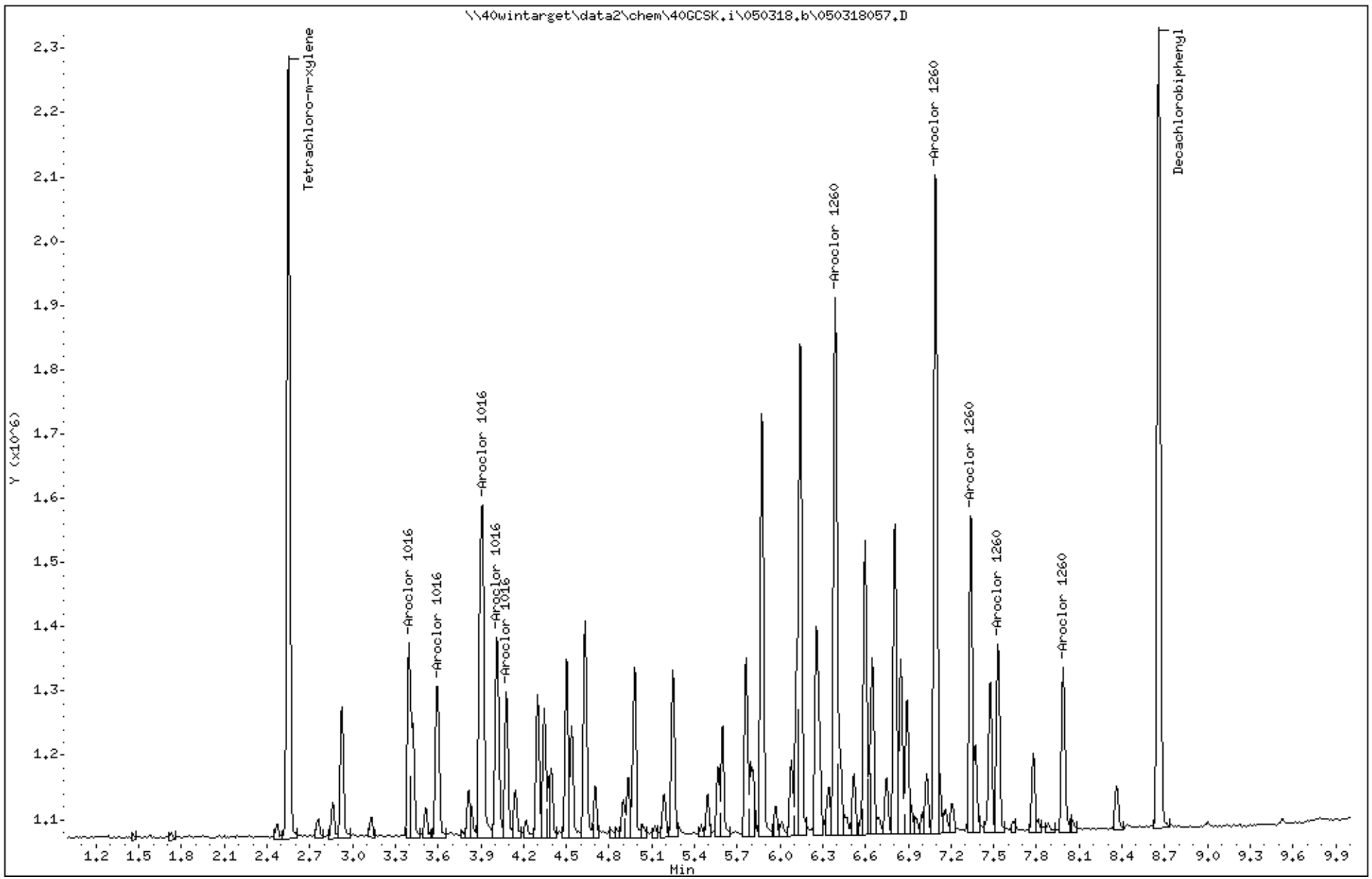
Instrument: 40GCSK.i

Sample Info: 1660-CAL1A, 188136:1

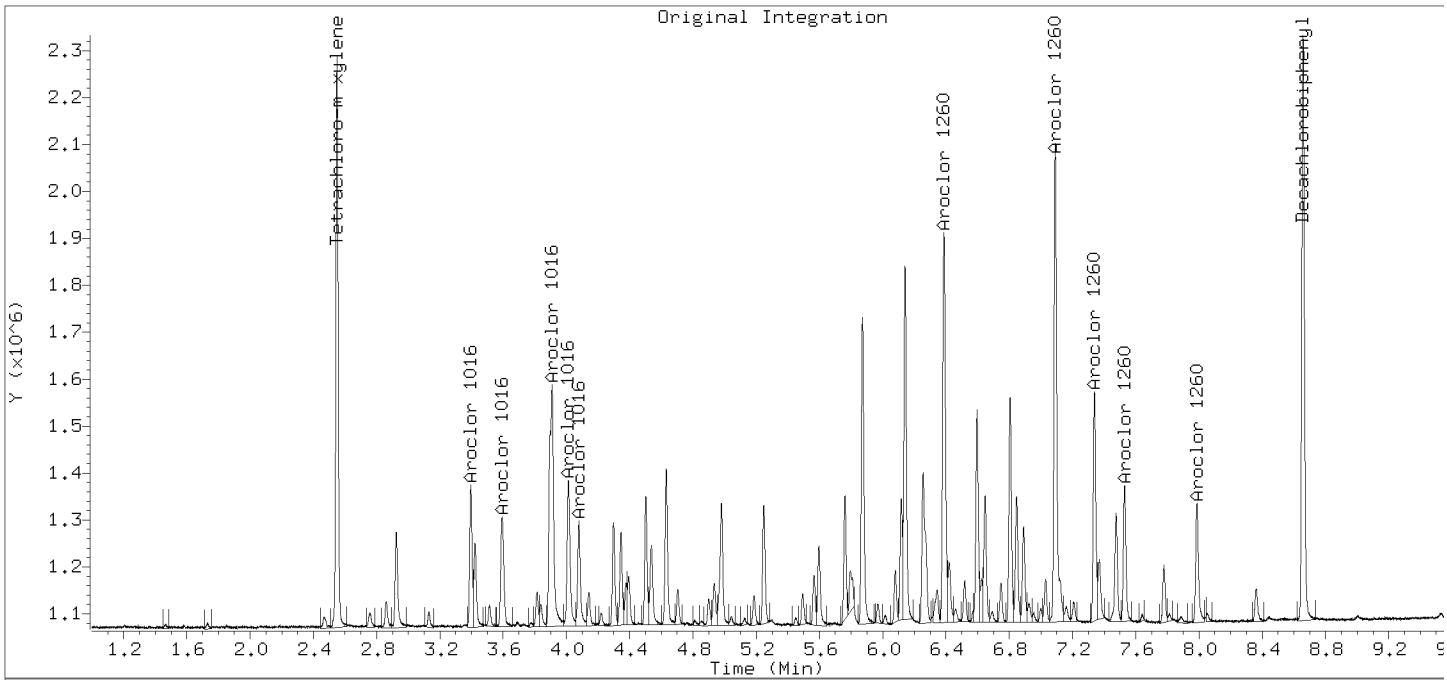
Operator: BLM

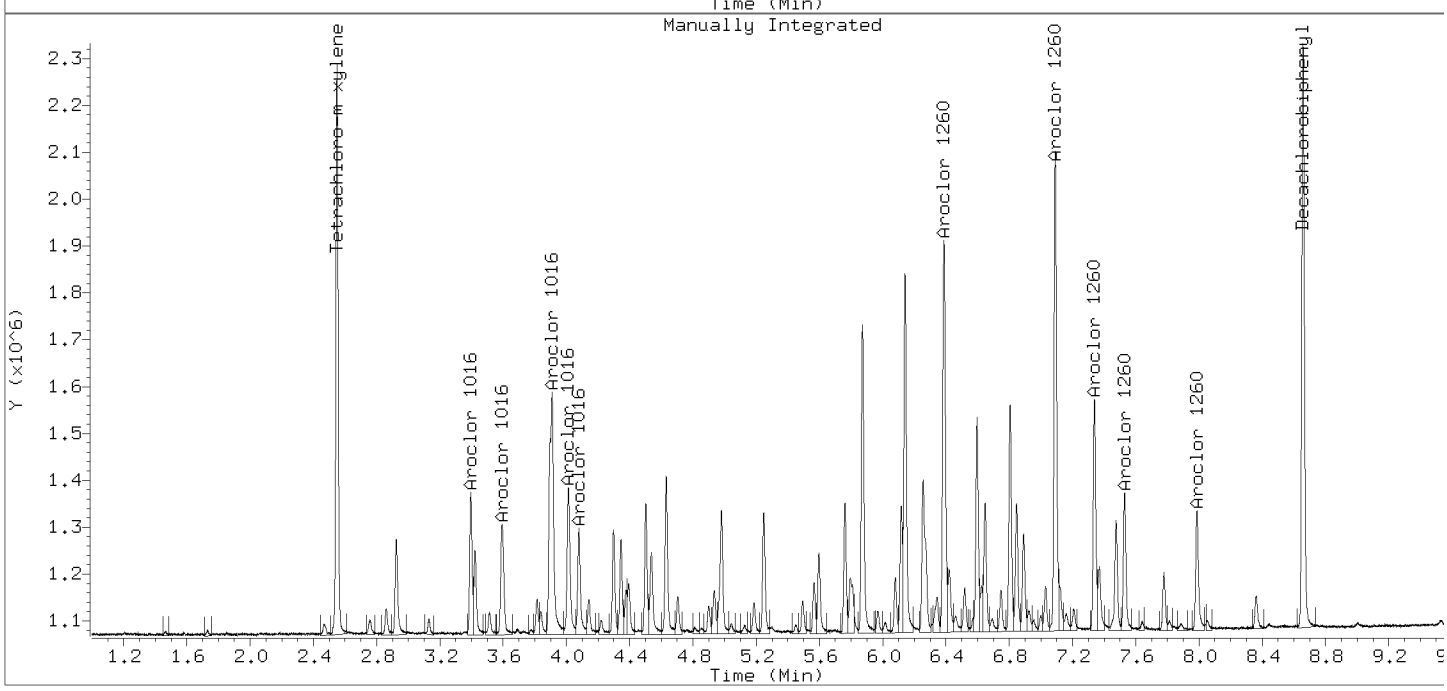
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318057.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:21 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL1A




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 319537 | 322683 | BA |
| Aroclor 1016 | 319537 | 322683 | BA |
| Aroclor 1016 | 319537 | 322683 | BA |
| Aroclor 1016 | 319537 | 322683 | BA |
| Aroclor 1016 | 319537 | 322683 | BA |
| Aroclor 1260 | 1027607 | 1045304 | CO |
| Aroclor 1260 | 1027607 | 1045304 | CO |
| Aroclor 1260 | 1027607 | 1045304 | CO |
| Aroclor 1260 | 1027607 | 1045304 | CO |
| Aroclor 1260 | 1027607 | 1045304 | CO |
| Tetrachloro-m-xylene | 1227409 | 1227409 | |
| Decachlorobiphenyl | 1475185 | 1475185 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A  Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 59  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.463 | 17912 | 15815 | 0.883 | 0.04 | | |
| 1.728 | 14663 | 12228 | 0.834 | 0.03 | | |
| 2.471 | 61595 | 45938 | 0.746 | 0.15 | | |
| 2.549 | 2379750 | 2356758 | 0.990 | 6.07 | $ 2 Tetrachloro-m-xylene | |
| 2.759 | 81642 | 61206 | 0.750 | 0.20 | | |
| 2.861 | 123186 | 109359 | 0.888 | 0.31 | | |
| 2.923 | 445033 | 401933 | 0.903 | 1.13 | | |
| 3.129 | 68982 | 63508 | 0.921 | 0.17 | | |
| 3.395 | 642979 | 618646 | 0.962 | 1.64 | 5 Aroclor 1016 | BA |
| 3.422 | 413701 | 350172 | 0.846 | 1.05 | | |
| 3.514 | 111192 | 91343 | 0.821 | 0.28 | | |
| 3.593 | 656402 | 467903 | 0.713 | 1.67 | 5 Aroclor 1016 | BA |
| 3.689 | 21483 | 19027 | 0.886 | 0.05 | | |
| 3.727 | 18991 | 12123 | 0.638 | 0.04 | | |
| 3.777 | 22282 | 18523 | 0.831 | 0.05 | | |
| 3.812 | 156568 | 150637 | 0.962 | 0.39 | | |
| 3.839 | 120759 | 94958 | 0.786 | 0.30 | | |
| 3.910 | 1960217 | 1051620 | 0.536 | 5.00 | 5 Aroclor 1016 | BA |
| 4.013 | 836515 | 652751 | 0.780 | 2.13 | 5 Aroclor 1016 | BA |
| 4.078 | 554798 | 461332 | 0.832 | 1.41 | 5 Aroclor 1016 | BA |
| 4.143 | 181440 | 148408 | 0.818 | 0.46 | | |
| 4.220 | 70325 | 59295 | 0.843 | 0.17 | | |
| 4.298 | 484782 | 449254 | 0.927 | 1.23 | | |
| 4.345 | 430095 | 393366 | 0.915 | 1.09 | | |
| 4.377 | 180343 | 183689 | 1.019 | 0.46 | | |
| 4.393 | 256145 | 213986 | 0.835 | 0.65 | | |
| 4.457 | 20400 | 13867 | 0.680 | 0.05 | | |
| 4.501 | 587316 | 545985 | 0.930 | 1.50 | | |
| 4.536 | 470606 | 337325 | 0.717 | 1.20 | | |
| 4.631 | 789855 | 683978 | 0.866 | 2.01 | | |
| 4.703 | 196684 | 152734 | 0.777 | 0.50 | | |
| 4.815 | 34227 | 22900 | 0.669 | 0.08 | | |
| 4.855 | 27687 | 22611 | 0.817 | 0.07 | | |
| 4.900 | 135860 | 118857 | 0.875 | 0.34 | | |
| 4.934 | 215377 | 187768 | 0.872 | 0.55 | | |
| 4.980 | 721010 | 533800 | 0.740 | 1.84 | | |
| 5.041 | 53209 | 38327 | 0.720 | 0.13 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.125 | 41894 | 32302 | 0.771 | 0.10 | |
| 5.185 | 151878 | 128511 | 0.846 | 0.38 | |
| 5.247 | 592252 | 529227 | 0.894 | 1.51 | |
| 5.298 | 34884 | 26291 | 0.754 | 0.08 | |
| 5.451 | 39658 | 34118 | 0.860 | 0.10 | |
| 5.494 | 167539 | 142461 | 0.850 | 0.42 | |
| 5.565 | 232028 | 216757 | 0.934 | 0.59 | |
| 5.597 | 396416 | 345641 | 0.872 | 1.01 | |
| 5.761 | 594381 | 559830 | 0.942 | 1.51 | |
| 5.797 | 396250 | 232669 | 0.587 | 1.01 | |
| 5.872 | 1549685 | 1284766 | 0.829 | 3.95 | |
| 5.970 | 108800 | 88927 | 0.817 | 0.27 | |
| 6.013 | 53350 | 39816 | 0.746 | 0.13 | |
| 6.080 | 252243 | 220298 | 0.873 | 0.64 | |
| 6.118 | 555471 | 555820 | 1.001 | 1.41 | |
| 6.142 | 1786713 | 1459334 | 0.817 | 4.56 | |
| 6.256 | 1074156 | 676419 | 0.630 | 2.74 | |
| 6.345 | 255144 | 141865 | 0.556 | 0.65 | |
| 6.387 | 2060205 | 1676311 | 0.814 | 5.26 | 8 Aroclor 1260 |
| 6.421 | 323552 | 267972 | 0.828 | 0.82 | |
| 6.460 | 101995 | 67487 | 0.662 | 0.26 | |
| 6.519 | 220804 | 182699 | 0.827 | 0.56 | |
| 6.573 | 44657 | 56097 | 1.256 | 0.11 | |
| 6.596 | 1023482 | 931936 | 0.911 | 2.61 | |
| 6.625 | 180721 | 190531 | 1.054 | 0.46 | |
| 6.648 | 648769 | 549633 | 0.847 | 1.65 | |
| 6.693 | 74295 | 53893 | 0.725 | 0.18 | |
| 6.748 | 199775 | 177148 | 0.887 | 0.51 | |
| 6.806 | 1093875 | 981925 | 0.898 | 2.79 | |
| 6.846 | 614855 | 545051 | 0.886 | 1.57 | |
| 6.891 | 494228 | 424061 | 0.858 | 1.26 | |
| 6.926 | 107692 | 82408 | 0.765 | 0.27 | |
| 6.956 | 50402 | 40618 | 0.806 | 0.12 | |
| 7.000 | 68025 | 60976 | 0.896 | 0.17 | |
| 7.029 | 215607 | 188309 | 0.873 | 0.55 | |
| 7.091 | 2413451 | 2074318 | 0.859 | 6.16 | 8 Aroclor 1260 |
| 7.121 | 173661 | 175821 | 1.012 | 0.44 | |
| 7.162 | 101290 | 67903 | 0.670 | 0.25 | |
| 7.210 | 114177 | 88917 | 0.779 | 0.29 | |
| 7.339 | 1164449 | 1022657 | 0.878 | 2.97 | 8 Aroclor 1260 |
| 7.370 | 364134 | 260539 | 0.716 | 0.93 | |
| 7.475 | 582855 | 473833 | 0.813 | 1.48 | |
| 7.529 | 715284 | 612483 | 0.856 | 1.82 | 8 Aroclor 1260 |
| 7.640 | 54375 | 35714 | 0.657 | 0.13 | |
| 7.777 | 284744 | 241227 | 0.847 | 0.72 | |
| 7.813 | 50534 | 37810 | 0.748 | 0.12 | |
| 7.844 | 13467 | 14059 | 1.044 | 0.03 | |
| 7.888 | 36189 | 25930 | 0.717 | 0.09 | |
| 7.987 | 655399 | 556937 | 0.850 | 1.67 | 8 Aroclor 1260 |
| 8.050 | 58966 | 37901 | 0.643 | 0.15 | |
| 8.361 | 162341 | 141287 | 0.870 | 0.41 | |
| 8.443 | 20217 | 11826 | 0.585 | 0.05 | |
| 8.657 | 2739030 | 2382922 | 0.870 | 7.47 | $ 12 Decachlorobiphenyl |
| 9.002 | 29783 | 17947 | 0.603 | 0.07 | |
| 9.527 | 41267 | 24515 | 0.594 | 0.10 | |
| | 39145304 | 32658583 | | 100.000 | |

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A  Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37  Cal File: 050318059.D
Als bottle: 59  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.548 | 2.549 | -0.001 | 2379750 | 0.02000 | 0.020 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.395 | 3.395 | 0.000 | 642978 | 0.20000 | 0.21 | 0.00- 20.00 | 100.00(M) | BA |
| 3.592 | 3.592 | 0.000 | 656402 | 0.20000 | 0.21 | 0.00- 20.00 | 102.09 | BA |
| 3.909 | 3.909 | 0.000 | 1960217 | 0.20000 | 0.21 | 0.00- 20.00 | 304.87 | BA |
| 4.012 | 4.011 | 0.001 | 836514 | 0.20000 | 0.21 | 0.00- 20.00 | 130.10 | BA |
| 4.077 | 4.078 | -0.001 | 554798 | 0.20000 | 0.20 | 0.00- 20.00 | 86.29 | BA |
| Average of Peak Amounts = | | | | | 0.20800 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 2060205 | 0.20000 | 0.20 | 0.00- 20.00 | 100.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 2413450 | 0.20000 | 0.20 | 0.00- 20.00 | 117.15 | BA |
| 7.338 | 7.338 | 0.000 | 1164449 | 0.20000 | 0.20 | 0.00- 20.00 | 56.52 | BA |
| 7.528 | 7.529 | -0.001 | 715284 | 0.20000 | 0.21 | 0.00- 20.00 | 34.72 | BA |
| 7.986 | 7.987 | -0.001 | 655399 | 0.20000 | 0.21 | 0.00- 20.00 | 31.81 | BA |
| Average of Peak Amounts = | | | | | 0.20400 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 2739030 | 0.02000 | 0.020 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D



Date : 03-MAY-2018 17:37

Client ID: 1660-CAL2A

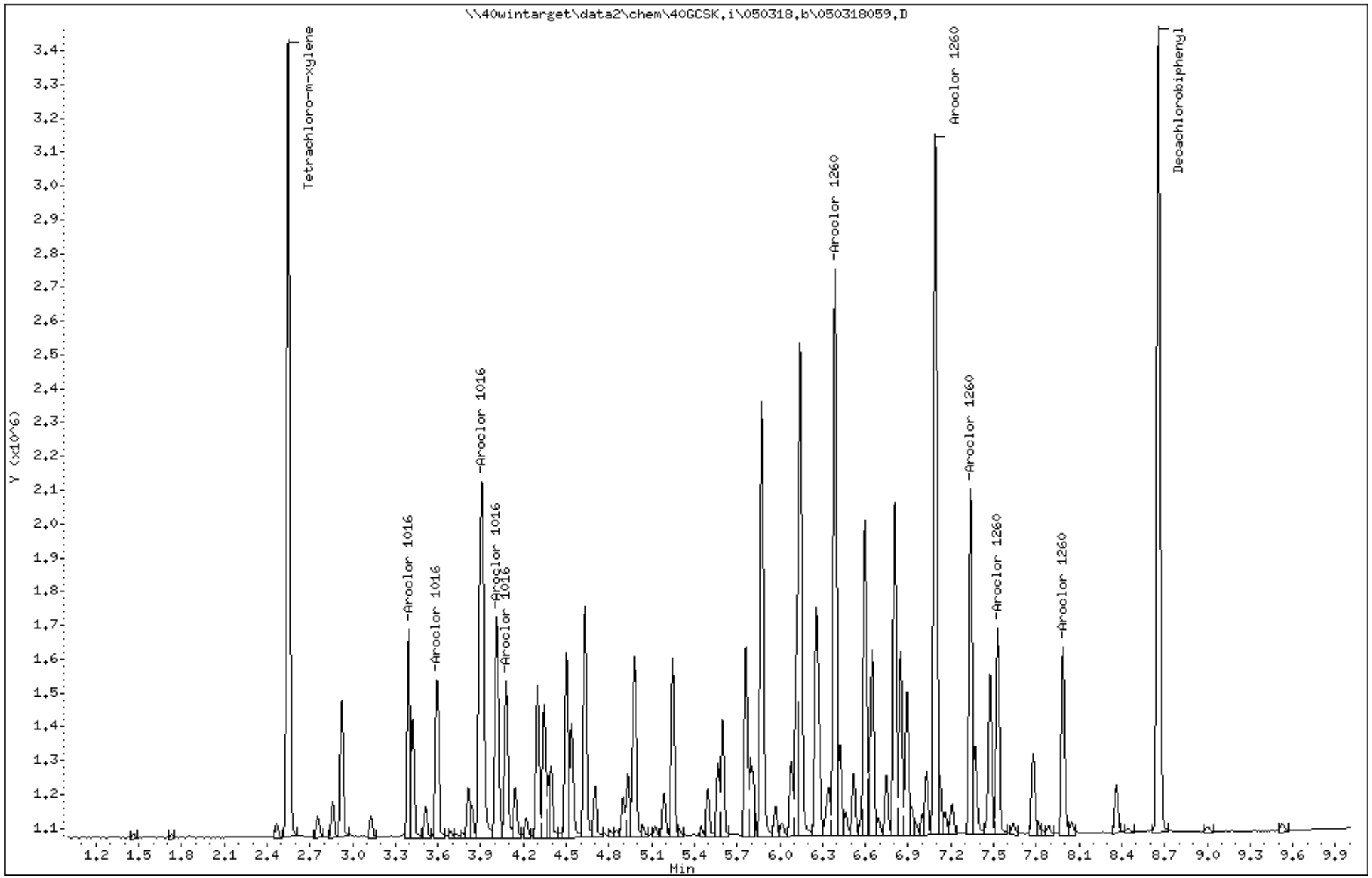
Instrument: 40GCSK.i

Sample Info: 1660-CAL2A, 185558:1

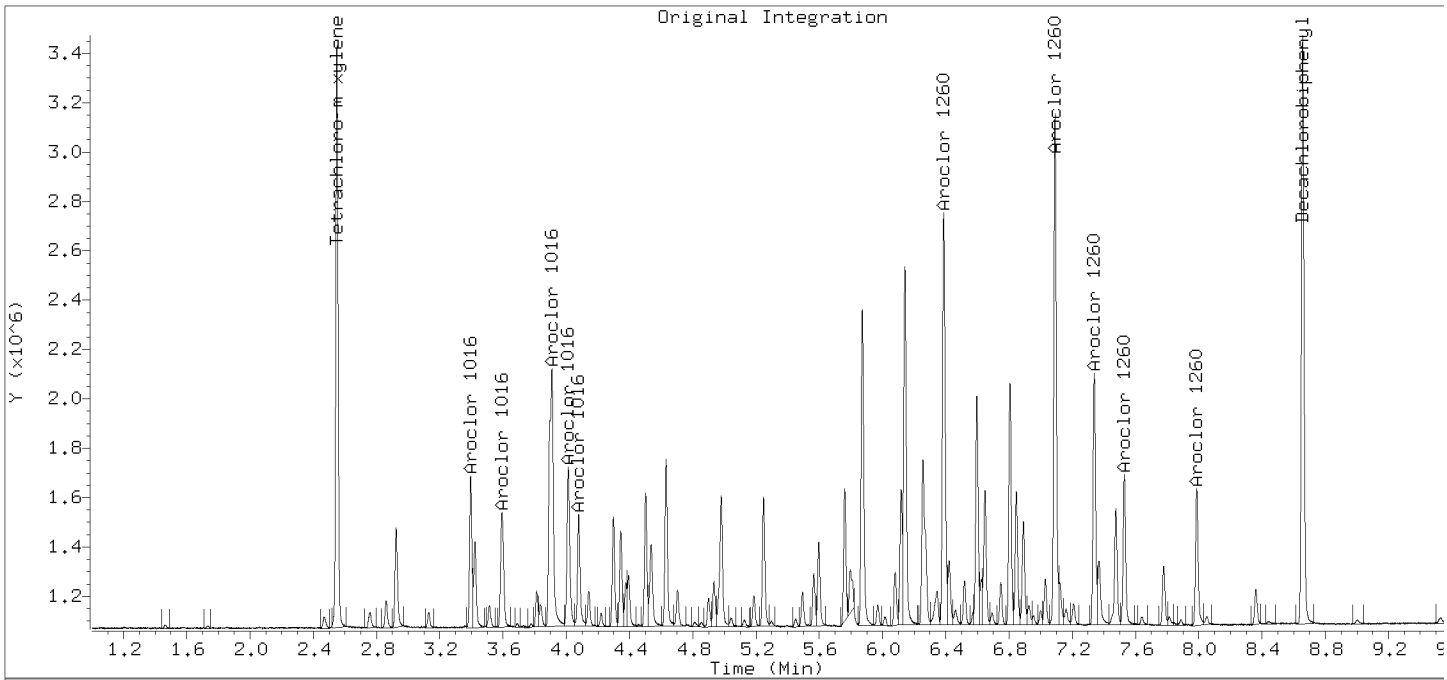
Operator: BLM

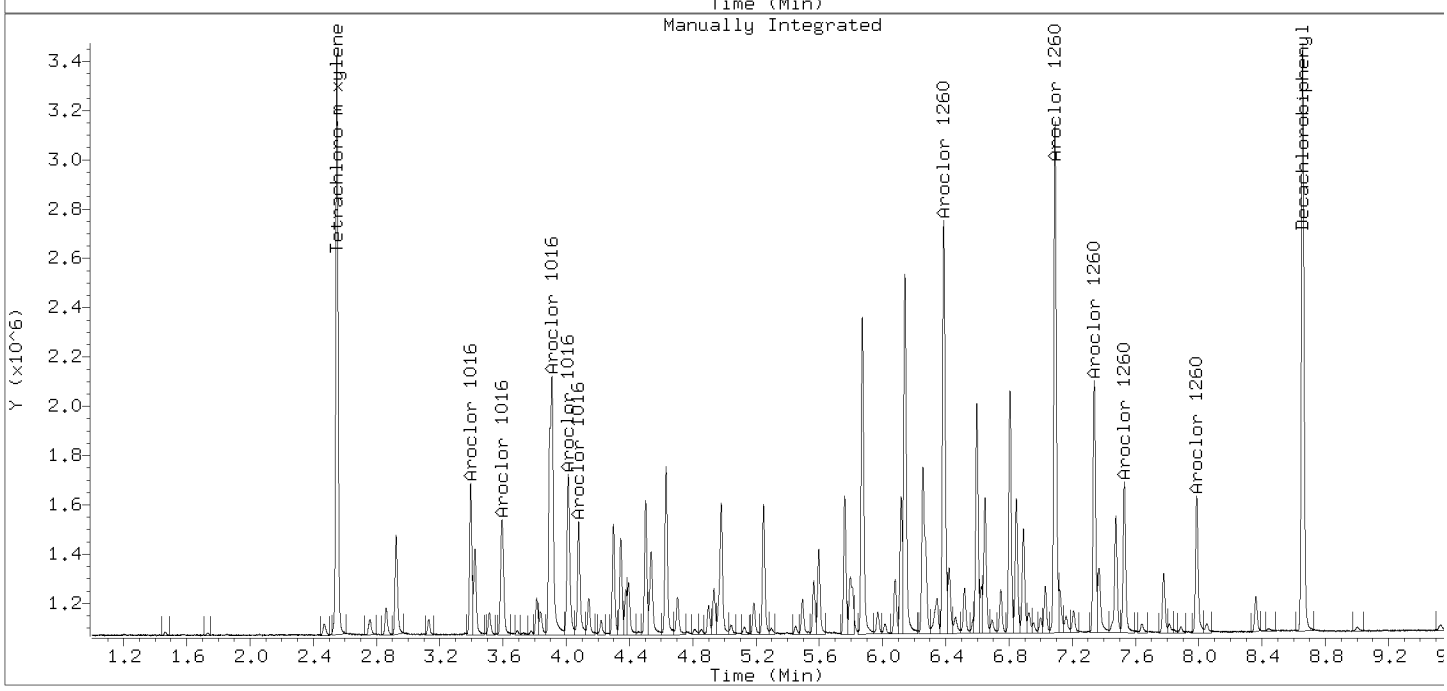
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318059.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL2A




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 638624 | 642978 | BA |
| Aroclor 1016 | 638624 | 642978 | BA |
| Aroclor 1016 | 638624 | 642978 | BA |
| Aroclor 1016 | 638624 | 642978 | BA |
| Aroclor 1016 | 638624 | 642978 | BA |
| Aroclor 1260 | 2042014 | 2060205 | BA |
| Aroclor 1260 | 2042014 | 2060205 | BA |
| Aroclor 1260 | 2042014 | 2060205 | BA |
| Aroclor 1260 | 2042014 | 2060205 | BA |
| Aroclor 1260 | 2042014 | 2060205 | BA |
| Tetrachloro-m-xylene | 2379750 | 2379750 | |
| Decachlorobiphenyl | 2739030 | 2739030 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A  Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 61  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 53726 | 50354 | 0.937 | 0.05 | | |
| 1.463 | 37186 | 35122 | 0.944 | 0.03 | | |
| 1.578 | 21617 | 16843 | 0.779 | 0.02 | | |
| 1.730 | 28304 | 28194 | 0.996 | 0.02 | | |
| 1.854 | 16868 | 15254 | 0.904 | 0.01 | | |
| 2.061 | 37868 | 29796 | 0.787 | 0.03 | | |
| 2.470 | 137109 | 113423 | 0.827 | 0.14 | | |
| 2.549 | 6100684 | 6155447 | 1.009 | 6.43 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 188393 | 152965 | 0.812 | 0.19 | | |
| 2.861 | 304915 | 277454 | 0.910 | 0.32 | | |
| 2.924 | 1157346 | 1028076 | 0.888 | 1.22 | | |
| 3.091 | 23867 | 21080 | 0.883 | 0.02 | | |
| 3.130 | 171532 | 157358 | 0.917 | 0.18 | | |
| 3.354 | 22231 | 16521 | 0.743 | 0.02 | | |
| 3.395 | 1549695 | 1472824 | 0.950 | 1.63 | 5 Aroclor 1016 | BA |
| 3.421 | 985336 | 873341 | 0.886 | 1.03 | | |
| 3.513 | 263101 | 222930 | 0.847 | 0.27 | | |
| 3.594 | 1598183 | 1152800 | 0.721 | 1.68 | 5 Aroclor 1016 | BA |
| 3.691 | 51400 | 40457 | 0.787 | 0.05 | | |
| 3.725 | 25991 | 17647 | 0.679 | 0.02 | | |
| 3.777 | 43562 | 41035 | 0.942 | 0.04 | | |
| 3.812 | 389538 | 376603 | 0.967 | 0.41 | | |
| 3.838 | 289273 | 239616 | 0.828 | 0.30 | | |
| 3.909 | 4708386 | 2608002 | 0.554 | 4.96 | 5 Aroclor 1016 | BA |
| 4.012 | 2028145 | 1590308 | 0.784 | 2.13 | 5 Aroclor 1016 | BA |
| 4.077 | 1375494 | 1186545 | 0.863 | 1.45 | 5 Aroclor 1016 | BA |
| 4.142 | 430719 | 353186 | 0.820 | 0.45 | | |
| 4.221 | 170219 | 135058 | 0.793 | 0.17 | | |
| 4.298 | 1172731 | 1080073 | 0.921 | 1.23 | | |
| 4.344 | 1058088 | 981986 | 0.928 | 1.11 | | |
| 4.376 | 431521 | 450844 | 1.045 | 0.45 | | |
| 4.394 | 606218 | 512468 | 0.845 | 0.63 | | |
| 4.460 | 36210 | 25250 | 0.697 | 0.03 | | |
| 4.502 | 1430253 | 1335045 | 0.933 | 1.50 | | |
| 4.537 | 1131425 | 838742 | 0.741 | 1.19 | | |
| 4.631 | 1906063 | 1624999 | 0.853 | 2.01 | | |
| 4.703 | 441727 | 384456 | 0.870 | 0.46 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.763 | 37907 | 23970 | 0.632 | 0.03 | |
| 4.810 | 69190 | 53049 | 0.767 | 0.07 | |
| 4.855 | 62084 | 52439 | 0.845 | 0.06 | |
| 4.899 | 334136 | 301333 | 0.902 | 0.35 | |
| 4.933 | 537333 | 489354 | 0.911 | 0.56 | |
| 4.980 | 1726715 | 1230785 | 0.713 | 1.82 | |
| 5.044 | 126074 | 91572 | 0.726 | 0.13 | |
| 5.126 | 97679 | 77855 | 0.797 | 0.10 | |
| 5.186 | 360685 | 312217 | 0.866 | 0.38 | |
| 5.248 | 1433379 | 1273297 | 0.888 | 1.51 | |
| 5.298 | 77106 | 54913 | 0.712 | 0.08 | |
| 5.396 | 17385 | 14283 | 0.822 | 0.01 | |
| 5.450 | 96882 | 81968 | 0.846 | 0.10 | |
| 5.494 | 383137 | 357488 | 0.933 | 0.40 | |
| 5.565 | 559641 | 538610 | 0.962 | 0.59 | |
| 5.597 | 1002245 | 867756 | 0.866 | 1.05 | |
| 5.691 | 21314 | 17370 | 0.815 | 0.02 | |
| 5.761 | 1464006 | 1357901 | 0.928 | 1.54 | |
| 5.795 | 963085 | 575973 | 0.598 | 1.01 | |
| 5.873 | 3636638 | 3029500 | 0.833 | 3.83 | |
| 5.969 | 248205 | 217423 | 0.876 | 0.26 | |
| 6.014 | 118539 | 97504 | 0.823 | 0.12 | |
| 6.079 | 619548 | 565801 | 0.913 | 0.65 | |
| 6.117 | 1358471 | 1361163 | 1.002 | 1.43 | |
| 6.142 | 4174571 | 3497797 | 0.838 | 4.40 | |
| 6.255 | 2624249 | 1661735 | 0.633 | 2.76 | |
| 6.344 | 590948 | 342928 | 0.580 | 0.62 | |
| 6.386 | 5019097 | 4164755 | 0.830 | 5.29 | 8 Aroclor 1260 |
| 6.421 | 762689 | 647945 | 0.850 | 0.80 | |
| 6.461 | 201798 | 151800 | 0.752 | 0.21 | |
| 6.518 | 536476 | 459453 | 0.856 | 0.56 | |
| 6.573 | 112260 | 133894 | 1.193 | 0.11 | |
| 6.596 | 2436192 | 2179917 | 0.895 | 2.56 | |
| 6.625 | 454038 | 495755 | 1.092 | 0.47 | |
| 6.647 | 1548071 | 1327669 | 0.858 | 1.63 | |
| 6.691 | 178453 | 134122 | 0.752 | 0.18 | |
| 6.747 | 481363 | 438864 | 0.912 | 0.50 | |
| 6.806 | 2616686 | 2361158 | 0.902 | 2.75 | |
| 6.847 | 1484307 | 1315090 | 0.886 | 1.56 | |
| 6.890 | 1242930 | 1038667 | 0.836 | 1.31 | |
| 6.925 | 233934 | 198303 | 0.848 | 0.24 | |
| 6.956 | 115943 | 99282 | 0.856 | 0.12 | |
| 7.000 | 164120 | 152071 | 0.927 | 0.17 | |
| 7.029 | 524427 | 486210 | 0.927 | 0.55 | |
| 7.091 | 5900538 | 5151876 | 0.873 | 6.22 | 8 Aroclor 1260 |
| 7.121 | 412665 | 393369 | 0.953 | 0.43 | |
| 7.159 | 204567 | 153012 | 0.748 | 0.21 | |
| 7.208 | 272783 | 218350 | 0.800 | 0.28 | |
| 7.339 | 2854588 | 2543355 | 0.891 | 3.01 | 8 Aroclor 1260 |
| 7.370 | 853888 | 668115 | 0.782 | 0.90 | |
| 7.475 | 1405441 | 1192261 | 0.848 | 1.48 | |
| 7.529 | 1721743 | 1492890 | 0.867 | 1.81 | 8 Aroclor 1260 |
| 7.640 | 133905 | 95911 | 0.716 | 0.14 | |
| 7.778 | 694879 | 631675 | 0.909 | 0.73 | |
| 7.814 | 121059 | 79469 | 0.656 | 0.12 | |
| 7.888 | 66234 | 55913 | 0.844 | 0.06 | |
| 7.987 | 1602956 | 1330170 | 0.830 | 1.69 | 8 Aroclor 1260 |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.050 | 116958 | 88536 | 0.757 | 0.12 | |
| 8.361 | 405599 | 346787 | 0.855 | 0.42 | |
| 8.440 | 40321 | 25957 | 0.644 | 0.04 | |
| 8.658 | 6625063 | 5534164 | 0.835 | 7.47 | $ 12 Decachlorobiphenyl |
| 9.003 | 50871 | 33868 | 0.666 | 0.05 | |
| 9.529 | 55262 | 36484 | 0.660 | 0.05 | |
| | 94818181 | 80045203 | | 100.000 | |

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A  Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53  Cal File: 050318061.D
Als bottle: 61  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 6100684 | 0.05000 | 0.051 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.394 | 3.395 | -0.001 | 1549695 | 0.50000 | 0.51 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1598182 | 0.50000 | 0.50 | 0.00- 20.00 | 103.13 | BA |
| 3.908 | 3.909 | -0.001 | 4708386 | 0.50000 | 0.50 | 0.00- 20.00 | 303.83 | BA |
| 4.012 | 4.011 | 0.001 | 2028145 | 0.50000 | 0.50 | 0.00- 20.00 | 130.87 | BA |
| 4.077 | 4.078 | -0.001 | 1375493 | 0.50000 | 0.51 | 0.00- 20.00 | 88.76 | BA |
| Average of Peak Amounts = | | | | | 0.50400 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 5019097 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 5900537 | 0.50000 | 0.50 | 0.00- 20.00 | 117.56 | BA |
| 7.338 | 7.338 | 0.000 | 2854587 | 0.50000 | 0.50 | 0.00- 20.00 | 56.87 | BA |
| 7.529 | 7.529 | 0.000 | 1721743 | 0.50000 | 0.50 | 0.00- 20.00 | 34.30 | BA |
| 7.986 | 7.987 | -0.001 | 1602956 | 0.50000 | 0.51 | 0.00- 20.00 | 31.94 | BA |
| Average of Peak Amounts = | | | | | 0.50200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6625063 | 0.05000 | 0.050 | | | |

QC Flag Legend

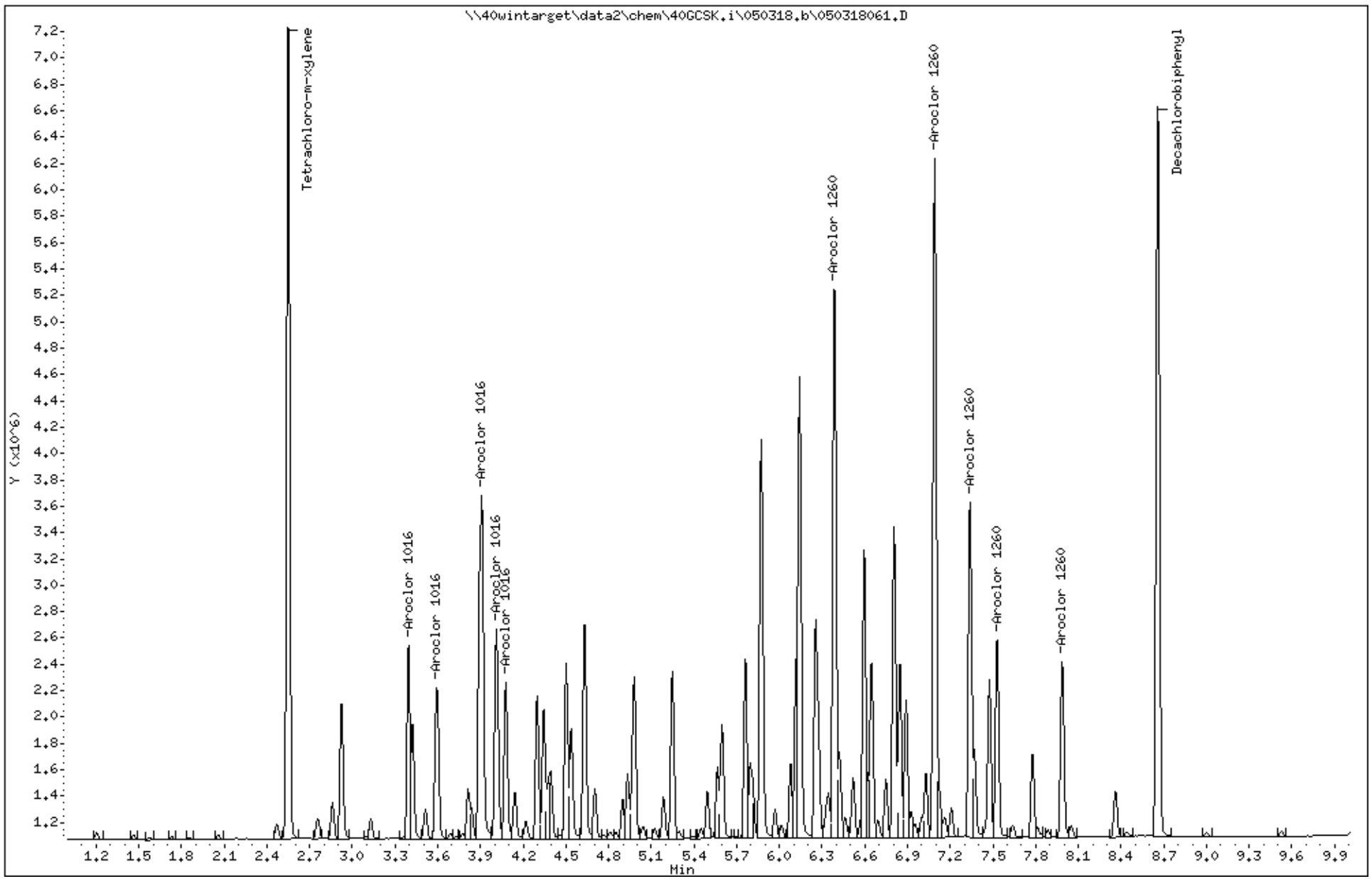
M - Compound response manually integrated.

Review Codes Legend

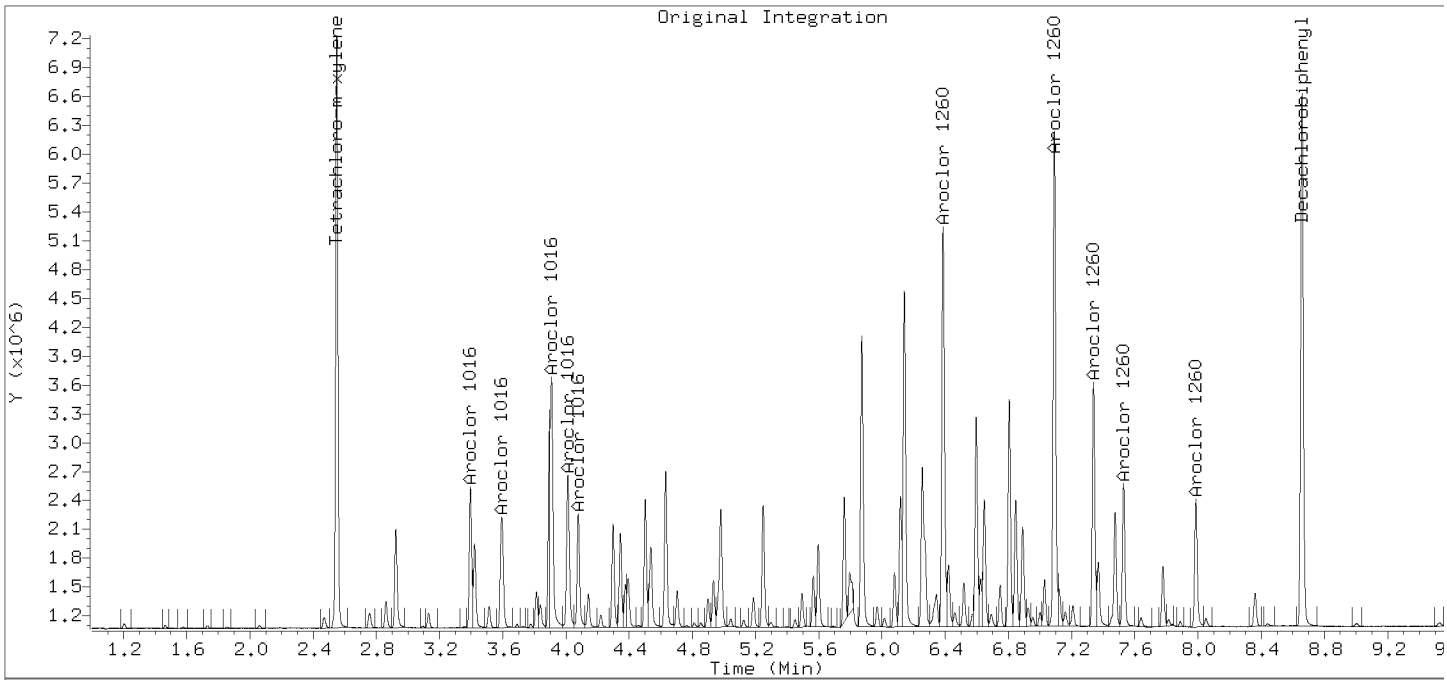
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

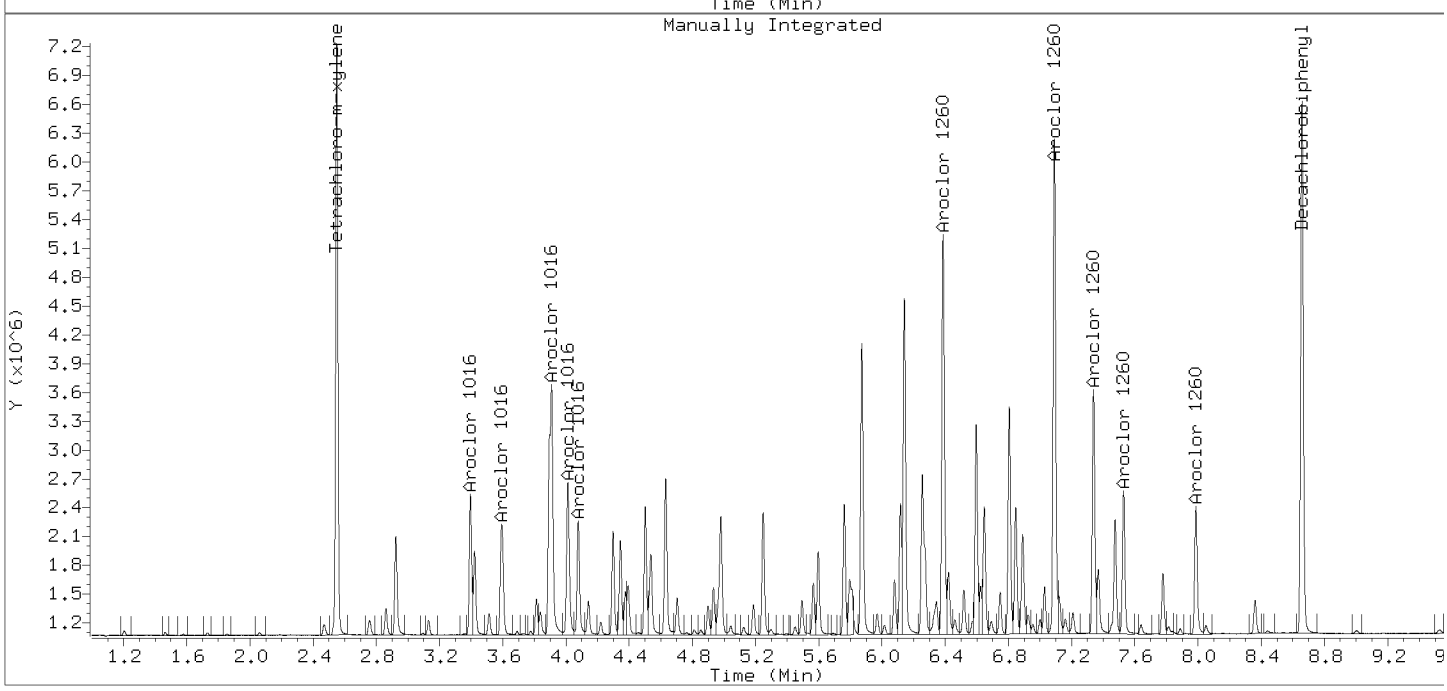
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Date : 03-MAY-2018 17:53
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

Instrument: 40GCSK.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318061.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL3A




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1540117 | 1549695 | BA |
| Aroclor 1016 | 1540117 | 1549695 | BA |
| Aroclor 1016 | 1540117 | 1549695 | BA |
| Aroclor 1016 | 1540117 | 1549695 | BA |
| Aroclor 1016 | 1540117 | 1549695 | BA |
| Aroclor 1260 | 4988423 | 5019097 | BA |
| Aroclor 1260 | 4988423 | 5019097 | BA |
| Aroclor 1260 | 4988423 | 5019097 | BA |
| Aroclor 1260 | 4988423 | 5019097 | BA |
| Aroclor 1260 | 4988423 | 5019097 | BA |
| Tetrachloro-m-xylene | 6100684 | 6100684 | |
| Decachlorobiphenyl | 6625063 | 6625063 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A  Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 63  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.464 | 67236 | 64848 | 0.964 | 0.04 | | |
| 1.577 | 30556 | 27095 | 0.887 | 0.02 | | |
| 1.732 | 31242 | 29019 | 0.929 | 0.02 | | |
| 1.854 | 21745 | 19686 | 0.905 | 0.01 | | |
| 2.470 | 208781 | 168214 | 0.806 | 0.13 | | |
| 2.550 | 11955961 | 11999830 | 1.004 | 7.97 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 313747 | 237652 | 0.757 | 0.20 | | |
| 2.860 | 489974 | 458341 | 0.935 | 0.32 | | |
| 2.924 | 1719967 | 1536154 | 0.893 | 1.14 | | |
| 3.130 | 244334 | 235899 | 0.965 | 0.16 | | |
| 3.274 | 10988 | 7384 | 0.672 | 0.00 | | |
| 3.362 | 28250 | 24900 | 0.881 | 0.01 | | |
| 3.396 | 2348979 | 2198443 | 0.936 | 1.56 | 5 Aroclor 1016 | BA |
| 3.422 | 1465092 | 1299045 | 0.887 | 0.97 | | |
| 3.514 | 396811 | 344207 | 0.867 | 0.26 | | |
| 3.594 | 2420313 | 1697882 | 0.702 | 1.61 | 5 Aroclor 1016 | BA |
| 3.692 | 80439 | 75413 | 0.938 | 0.05 | | |
| 3.723 | 31076 | 23156 | 0.745 | 0.02 | | |
| 3.776 | 64078 | 60404 | 0.943 | 0.04 | | |
| 3.813 | 615074 | 590097 | 0.959 | 0.41 | | |
| 3.838 | 430982 | 372783 | 0.865 | 0.28 | | |
| 3.909 | 7271125 | 4103121 | 0.564 | 4.84 | 5 Aroclor 1016 | BA |
| 4.011 | 3072408 | 2432414 | 0.792 | 2.04 | 5 Aroclor 1016 | BA |
| 4.077 | 2070662 | 1801326 | 0.870 | 1.38 | 5 Aroclor 1016 | BA |
| 4.142 | 645710 | 551139 | 0.854 | 0.43 | | |
| 4.221 | 238325 | 206191 | 0.865 | 0.15 | | |
| 4.298 | 1763686 | 1629539 | 0.924 | 1.17 | | |
| 4.345 | 1607829 | 1463237 | 0.910 | 1.07 | | |
| 4.377 | 658312 | 690446 | 1.049 | 0.43 | | |
| 4.394 | 926757 | 783490 | 0.845 | 0.61 | | |
| 4.458 | 56164 | 36342 | 0.647 | 0.03 | | |
| 4.502 | 2167213 | 2034242 | 0.939 | 1.44 | | |
| 4.537 | 1739220 | 1273956 | 0.732 | 1.16 | | |
| 4.631 | 2894760 | 2541033 | 0.878 | 1.93 | | |
| 4.703 | 675338 | 598985 | 0.887 | 0.45 | | |
| 4.761 | 48164 | 32845 | 0.682 | 0.03 | | |
| 4.812 | 104846 | 80805 | 0.771 | 0.06 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.853 | 94643 | 77881 | 0.823 | 0.06 | |
| 4.898 | 519887 | 495744 | 0.954 | 0.34 | |
| 4.933 | 838898 | 768578 | 0.916 | 0.55 | |
| 4.980 | 2601456 | 1860837 | 0.715 | 1.73 | |
| 5.043 | 185872 | 137052 | 0.737 | 0.12 | |
| 5.124 | 146509 | 121892 | 0.832 | 0.09 | |
| 5.186 | 555478 | 498528 | 0.897 | 0.37 | |
| 5.247 | 2154992 | 1925467 | 0.893 | 1.43 | |
| 5.297 | 126762 | 86104 | 0.679 | 0.08 | |
| 5.393 | 23727 | 19735 | 0.832 | 0.01 | |
| 5.449 | 144806 | 128498 | 0.887 | 0.09 | |
| 5.494 | 596942 | 553969 | 0.928 | 0.39 | |
| 5.531 | 27825 | 27055 | 0.972 | 0.01 | |
| 5.565 | 857592 | 822758 | 0.959 | 0.57 | |
| 5.596 | 1545706 | 1365517 | 0.883 | 1.03 | |
| 5.691 | 28511 | 22906 | 0.803 | 0.01 | |
| 5.760 | 2205326 | 2053023 | 0.931 | 1.47 | |
| 5.796 | 1608716 | 870409 | 0.541 | 1.07 | |
| 5.872 | 5534744 | 4659515 | 0.842 | 3.69 | |
| 5.970 | 370112 | 341912 | 0.924 | 0.24 | |
| 6.016 | 176527 | 146842 | 0.832 | 0.11 | |
| 6.080 | 950067 | 908543 | 0.956 | 0.63 | |
| 6.117 | 2035562 | 2008760 | 0.987 | 1.35 | |
| 6.141 | 6388906 | 5380626 | 0.842 | 4.26 | |
| 6.255 | 4009021 | 2569923 | 0.641 | 2.67 | |
| 6.343 | 915697 | 543582 | 0.594 | 0.61 | |
| 6.387 | 7770769 | 6434864 | 0.828 | 5.18 | 8 Aroclor 1260 |
| 6.420 | 1181233 | 1015145 | 0.859 | 0.78 | |
| 6.462 | 295336 | 224814 | 0.761 | 0.19 | |
| 6.518 | 800706 | 685961 | 0.857 | 0.53 | |
| 6.572 | 177187 | 210961 | 1.191 | 0.11 | |
| 6.596 | 3711115 | 3273611 | 0.882 | 2.47 | |
| 6.624 | 722454 | 793419 | 1.098 | 0.48 | |
| 6.647 | 2356465 | 2054698 | 0.872 | 1.57 | |
| 6.691 | 267842 | 205980 | 0.769 | 0.17 | |
| 6.747 | 750453 | 699673 | 0.932 | 0.50 | |
| 6.805 | 4025779 | 3664936 | 0.910 | 2.68 | |
| 6.846 | 2243243 | 1966250 | 0.877 | 1.49 | |
| 6.890 | 1907111 | 1636442 | 0.858 | 1.27 | |
| 6.926 | 355149 | 296453 | 0.835 | 0.23 | |
| 6.955 | 177855 | 148888 | 0.837 | 0.11 | |
| 6.999 | 247782 | 231402 | 0.934 | 0.16 | |
| 7.029 | 828759 | 754937 | 0.911 | 0.55 | |
| 7.091 | 9187934 | 8114188 | 0.883 | 6.12 | 8 Aroclor 1260 |
| 7.122 | 653413 | 593308 | 0.908 | 0.43 | |
| 7.161 | 306439 | 233514 | 0.762 | 0.20 | |
| 7.208 | 382783 | 320545 | 0.837 | 0.25 | |
| 7.338 | 4459353 | 4051635 | 0.909 | 2.97 | 8 Aroclor 1260 |
| 7.369 | 1293842 | 1059494 | 0.819 | 0.86 | |
| 7.475 | 2145485 | 1746091 | 0.814 | 1.43 | |
| 7.529 | 2620928 | 2286896 | 0.873 | 1.74 | 8 Aroclor 1260 |
| 7.639 | 195235 | 153578 | 0.787 | 0.13 | |
| 7.778 | 1081779 | 975392 | 0.902 | 0.72 | |
| 7.814 | 170854 | 124894 | 0.731 | 0.11 | |
| 7.887 | 99574 | 85627 | 0.860 | 0.06 | |
| 7.987 | 2445296 | 2099169 | 0.858 | 1.63 | 8 Aroclor 1260 |
| 8.052 | 189137 | 135738 | 0.718 | 0.12 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.361 | 670097 | 572171 | 0.854 | 0.44 | |
| 8.658 | 12598490 | 11014054 | 0.874 | 8.88 | $ 12 Decachlorobiphenyl |
| 9.006 | 17026 | 12307 | 0.723 | 0.01 | |
| 9.172 | 17942 | 12537 | 0.699 | 0.01 | |
| 9.534 | 13856 | 14286 | 1.031 | 0.00 | |
| | 149929128 | 128029077 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A  Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09  Cal File: 050318063.D
Als bottle: 63  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 11955960 | 0.10000 | 0.099 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.395 | 3.395 | 0.000 | 2348979 | 0.80000 | 0.77 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 2420312 | 0.80000 | 0.76 | 0.00- 20.00 | 103.04 | BA |
| 3.908 | 3.909 | -0.001 | 7271124 | 0.80000 | 0.77 | 0.00- 20.00 | 309.54 | BA |
| 4.011 | 4.011 | 0.000 | 3072407 | 0.80000 | 0.76 | 0.00- 20.00 | 130.80 | BA |
| 4.077 | 4.078 | -0.001 | 2070661 | 0.80000 | 0.77 | 0.00- 20.00 | 88.15 | BA |
| Average of Peak Amounts = | | | | | 0.76600 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 7770768 | 0.80000 | 0.78 | 0.00- 20.00 | 100.00(M) | BA |
| 7.091 | 7.090 | 0.001 | 9187934 | 0.80000 | 0.78 | 0.00- 20.00 | 118.24 | BA |
| 7.338 | 7.338 | 0.000 | 4459353 | 0.80000 | 0.79 | 0.00- 20.00 | 57.39 | BA |
| 7.528 | 7.529 | -0.001 | 2620928 | 0.80000 | 0.77 | 0.00- 20.00 | 33.73 | BA |
| 7.986 | 7.987 | -0.001 | 2445295 | 0.80000 | 0.77 | 0.00- 20.00 | 31.47 | BA |
| Average of Peak Amounts = | | | | | 0.77800 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.658 | 8.657 | 0.001 | 12598489 | 0.10000 | 0.094 | | | |

QC Flag Legend

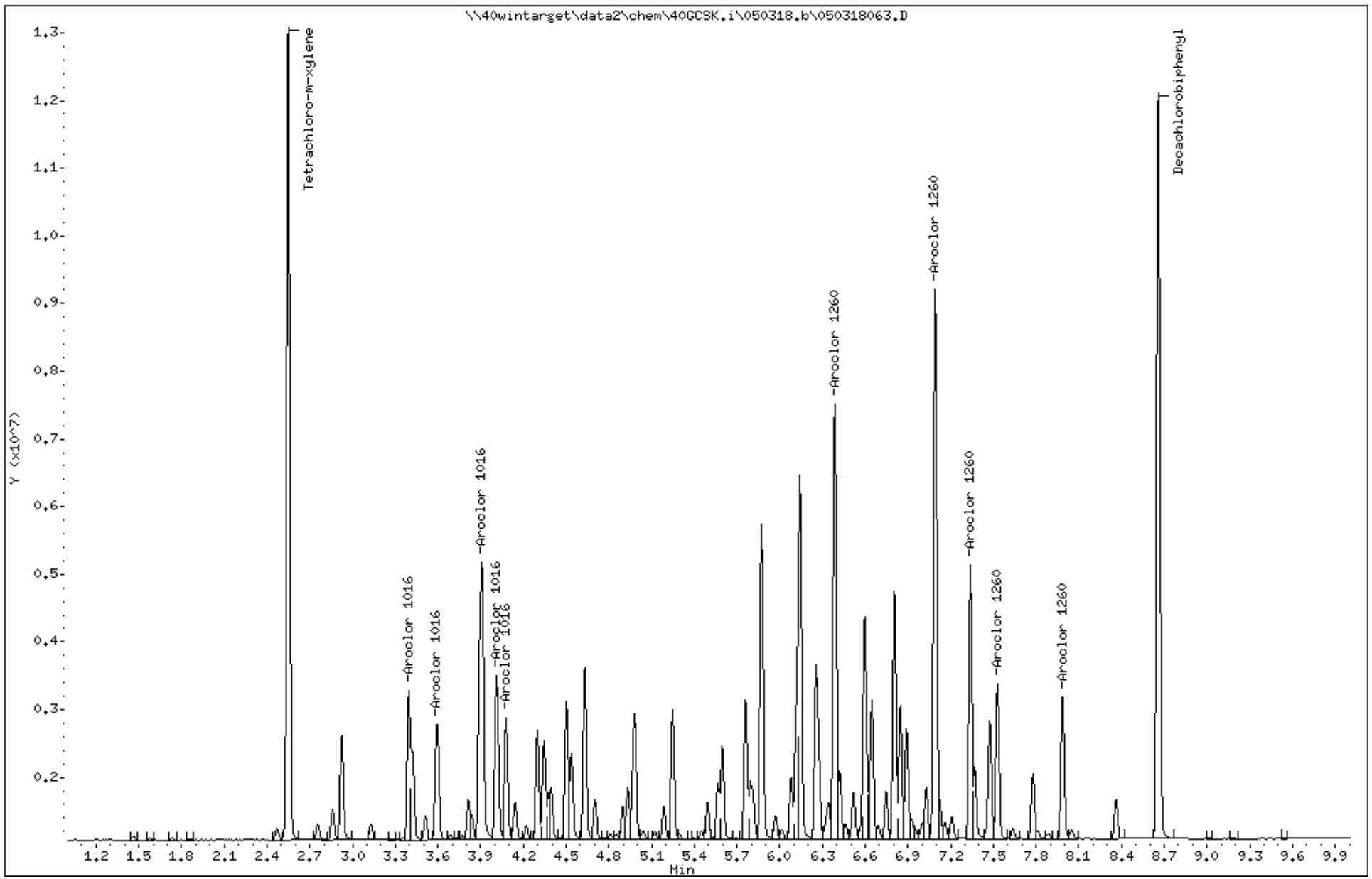
M - Compound response manually integrated.

Review Codes Legend

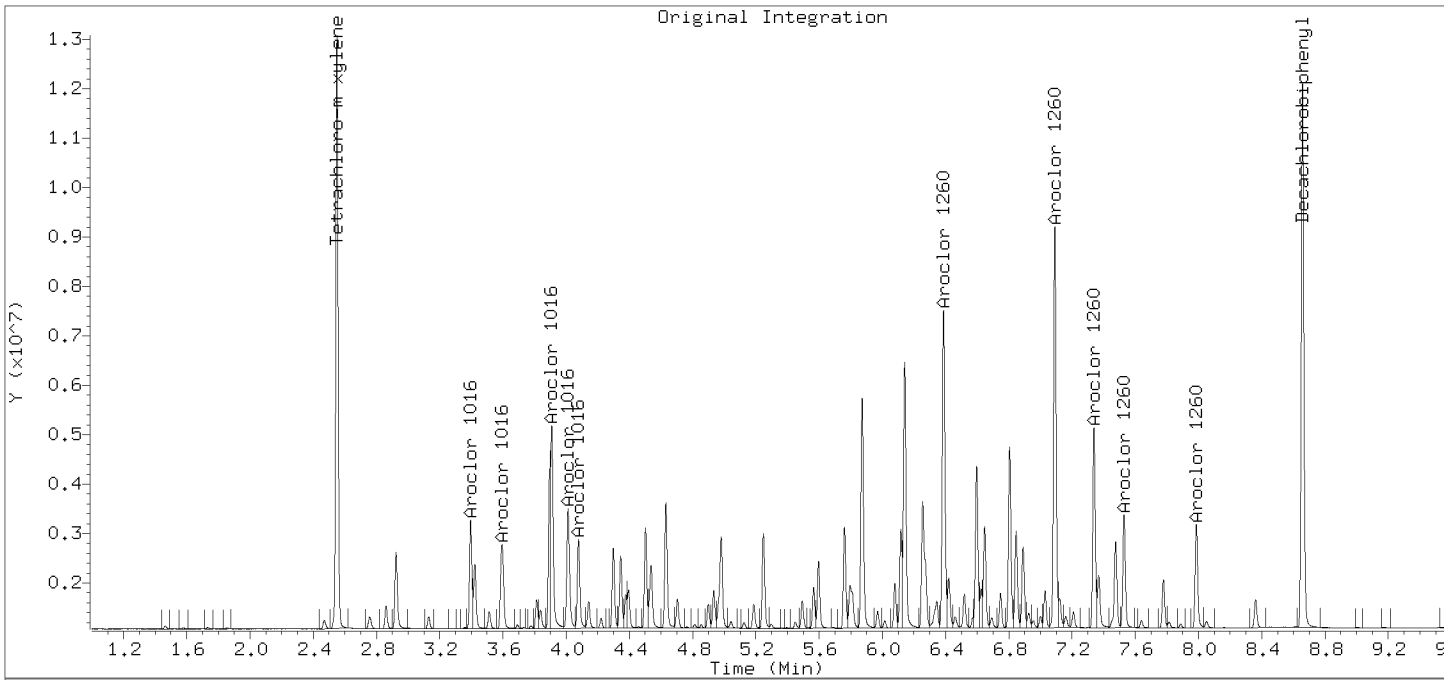
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

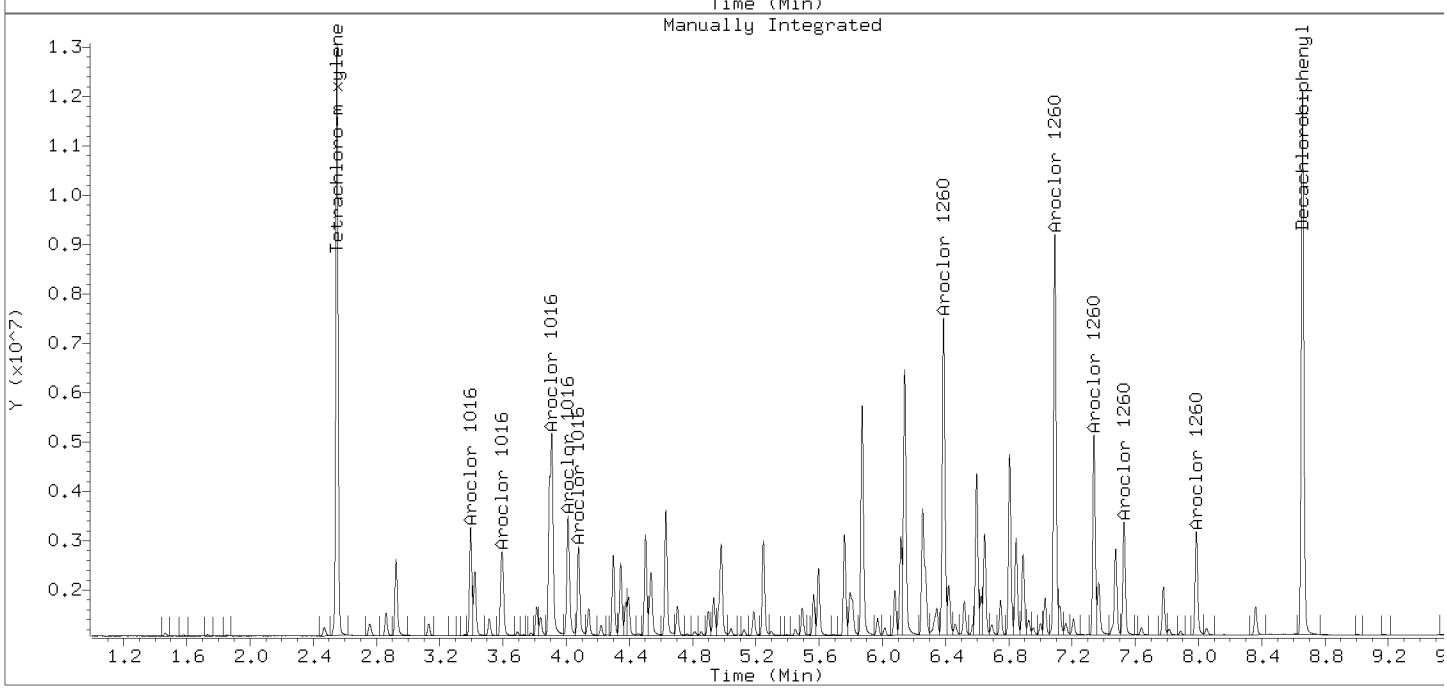
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Date : 03-MAY-2018 18:09
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

Instrument: 40GCSK.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318063.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:09 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL4A




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 2335401 | 2348979 | BA |
| Aroclor 1016 | 2335401 | 2348979 | BA |
| Aroclor 1016 | 2335401 | 2348979 | BA |
| Aroclor 1016 | 2335401 | 2348979 | BA |
| Aroclor 1016 | 2335401 | 2348979 | BA |
| Aroclor 1260 | 7750565 | 7770768 | BA |
| Aroclor 1260 | 7750565 | 7770768 | BA |
| Aroclor 1260 | 7750565 | 7770768 | BA |
| Aroclor 1260 | 7750565 | 7770768 | BA |
| Aroclor 1260 | 7750565 | 7770768 | BA |
| Tetrachloro-m-xylene | 11955960 | 11955960 | |
| Decachlorobiphenyl | 12598489 | 12598489 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A  Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 65  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.202 | 10600 | 11802 | 1.113 | 0.00 | | |
| 1.462 | 94131 | 93130 | 0.989 | 0.04 | | |
| 1.575 | 40028 | 36391 | 0.909 | 0.02 | | |
| 1.729 | 24562 | 23104 | 0.941 | 0.01 | | |
| 1.855 | 28263 | 25098 | 0.888 | 0.01 | | |
| 2.469 | 252718 | 200899 | 0.795 | 0.13 | | |
| 2.549 | 17835724 | 18075506 | 1.013 | 9.40 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 379493 | 289183 | 0.762 | 0.20 | | |
| 2.860 | 637485 | 596560 | 0.936 | 0.33 | | |
| 2.923 | 2104579 | 1860445 | 0.884 | 1.10 | | |
| 3.131 | 302809 | 289637 | 0.957 | 0.15 | | |
| 3.359 | 39118 | 32135 | 0.821 | 0.02 | | |
| 3.395 | 2816368 | 2657278 | 0.944 | 1.48 | 5 Aroclor 1016 | BA |
| 3.422 | 1786177 | 1554575 | 0.870 | 0.94 | | |
| 3.514 | 483430 | 426051 | 0.881 | 0.25 | | |
| 3.594 | 2923969 | 2080952 | 0.712 | 1.54 | 5 Aroclor 1016 | BA |
| 3.691 | 116927 | 108092 | 0.924 | 0.06 | | |
| 3.728 | 54082 | 32398 | 0.599 | 0.02 | | |
| 3.777 | 80041 | 73439 | 0.918 | 0.04 | | |
| 3.813 | 750863 | 739637 | 0.985 | 0.39 | | |
| 3.837 | 532576 | 470190 | 0.883 | 0.28 | | |
| 3.908 | 8886004 | 5003325 | 0.563 | 4.68 | 5 Aroclor 1016 | BA |
| 4.012 | 3741519 | 2955342 | 0.790 | 1.97 | 5 Aroclor 1016 | BA |
| 4.078 | 2529477 | 2241835 | 0.886 | 1.33 | 5 Aroclor 1016 | BA |
| 4.142 | 779305 | 673679 | 0.864 | 0.41 | | |
| 4.220 | 304140 | 249707 | 0.821 | 0.16 | | |
| 4.298 | 2129218 | 1925543 | 0.904 | 1.12 | | |
| 4.345 | 1936075 | 1797022 | 0.928 | 1.02 | | |
| 4.377 | 821663 | 847136 | 1.031 | 0.43 | | |
| 4.394 | 1104089 | 978477 | 0.886 | 0.58 | | |
| 4.457 | 66686 | 46067 | 0.691 | 0.03 | | |
| 4.502 | 2636996 | 2453008 | 0.930 | 1.39 | | |
| 4.537 | 2118944 | 1543530 | 0.728 | 1.11 | | |
| 4.631 | 3529320 | 3071319 | 0.870 | 1.86 | | |
| 4.704 | 826392 | 726177 | 0.879 | 0.43 | | |
| 4.765 | 66133 | 42637 | 0.645 | 0.03 | | |
| 4.812 | 126649 | 96930 | 0.765 | 0.06 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.854 | 115792 | 97994 | 0.846 | 0.06 | |
| 4.899 | 639463 | 597315 | 0.934 | 0.33 | |
| 4.933 | 1026826 | 921088 | 0.897 | 0.54 | |
| 4.980 | 3162663 | 2282967 | 0.722 | 1.66 | |
| 5.043 | 235547 | 163358 | 0.694 | 0.12 | |
| 5.124 | 185144 | 150351 | 0.812 | 0.09 | |
| 5.186 | 682483 | 602617 | 0.883 | 0.35 | |
| 5.248 | 2617724 | 2359652 | 0.901 | 1.38 | |
| 5.297 | 146755 | 102100 | 0.696 | 0.07 | |
| 5.394 | 31421 | 22776 | 0.725 | 0.01 | |
| 5.450 | 172339 | 157887 | 0.916 | 0.09 | |
| 5.494 | 731080 | 688598 | 0.942 | 0.38 | |
| 5.531 | 35946 | 31436 | 0.875 | 0.01 | |
| 5.565 | 1039490 | 984107 | 0.947 | 0.54 | |
| 5.596 | 1870163 | 1641153 | 0.878 | 0.98 | |
| 5.691 | 35131 | 26330 | 0.749 | 0.01 | |
| 5.761 | 2666143 | 2512418 | 0.942 | 1.40 | |
| 5.796 | 1979981 | 1063183 | 0.537 | 1.04 | |
| 5.872 | 6734644 | 5673706 | 0.842 | 3.55 | |
| 5.970 | 463225 | 408694 | 0.882 | 0.24 | |
| 6.016 | 220245 | 186092 | 0.845 | 0.11 | |
| 6.080 | 1166464 | 1087303 | 0.932 | 0.61 | |
| 6.117 | 2446662 | 2521575 | 1.031 | 1.29 | |
| 6.141 | 7792763 | 6601966 | 0.847 | 4.10 | |
| 6.256 | 4902469 | 3132484 | 0.639 | 2.58 | |
| 6.344 | 1142155 | 658658 | 0.577 | 0.60 | |
| 6.387 | 9544191 | 7809544 | 0.818 | 5.03 | 8 Aroclor 1260 |
| 6.421 | 1431136 | 1226841 | 0.857 | 0.75 | |
| 6.462 | 382444 | 280168 | 0.733 | 0.20 | |
| 6.519 | 978695 | 837798 | 0.856 | 0.51 | |
| 6.573 | 201013 | 256883 | 1.278 | 0.10 | |
| 6.596 | 4507380 | 4003546 | 0.888 | 2.37 | |
| 6.624 | 900416 | 950861 | 1.056 | 0.47 | |
| 6.648 | 2883370 | 2487636 | 0.863 | 1.52 | |
| 6.691 | 344707 | 257431 | 0.747 | 0.18 | |
| 6.748 | 939773 | 853268 | 0.908 | 0.49 | |
| 6.805 | 4919441 | 4479601 | 0.911 | 2.59 | |
| 6.847 | 2737725 | 2392698 | 0.874 | 1.44 | |
| 6.890 | 2344515 | 2009215 | 0.857 | 1.23 | |
| 6.926 | 443838 | 365831 | 0.824 | 0.23 | |
| 6.955 | 227292 | 189491 | 0.834 | 0.11 | |
| 6.999 | 315762 | 293589 | 0.930 | 0.16 | |
| 7.029 | 1026744 | 907611 | 0.884 | 0.54 | |
| 7.091 | 11310003 | 10026142 | 0.886 | 5.96 | 8 Aroclor 1260 |
| 7.121 | 787149 | 722978 | 0.918 | 0.41 | |
| 7.161 | 384747 | 282521 | 0.734 | 0.20 | |
| 7.208 | 508220 | 398074 | 0.783 | 0.26 | |
| 7.307 | 22840 | 24338 | 1.066 | 0.01 | |
| 7.338 | 5484641 | 4898135 | 0.893 | 2.89 | 8 Aroclor 1260 |
| 7.368 | 1588553 | 1279962 | 0.806 | 0.83 | |
| 7.476 | 2618792 | 2116651 | 0.808 | 1.38 | |
| 7.529 | 3228578 | 2739776 | 0.849 | 1.70 | 8 Aroclor 1260 |
| 7.639 | 248924 | 187542 | 0.753 | 0.13 | |
| 7.778 | 1319068 | 1195900 | 0.907 | 0.69 | |
| 7.814 | 212816 | 155518 | 0.731 | 0.11 | |
| 7.887 | 133066 | 111601 | 0.839 | 0.07 | |
| 7.987 | 2993726 | 2544338 | 0.850 | 1.57 | 8 Aroclor 1260 |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.051 | 217804 | 169994 | 0.780 | 0.11 | |
| 8.361 | 835944 | 744828 | 0.891 | 0.44 | |
| 8.658 | 18449537 | 16077866 | 0.871 | 10.14 | $ 12 Decachlorobiphenyl |
| 9.173 | 25312 | 18752 | 0.741 | 0.01 | |
| 9.527 | 23908 | 13331 | 0.558 | 0.01 | |
| | 189661336 | 162314303 | | 100.000 | |

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A  Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 65  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 17835724 | 0.15000 | 0.15 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.395 | 3.395 | 0.000 | 2816368 | 1.00000 | 0.92 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 2923969 | 1.00000 | 0.92 | 0.00- 20.00 | 103.82 | BA |
| 3.908 | 3.909 | -0.001 | 8886004 | 1.00000 | 0.94 | 0.00- 20.00 | 315.51 | BA |
| 4.011 | 4.011 | 0.000 | 3741518 | 1.00000 | 0.93 | 0.00- 20.00 | 132.85 | BA |
| 4.078 | 4.078 | 0.000 | 2529476 | 1.00000 | 0.94 | 0.00- 20.00 | 89.81 | BA |
| Average of Peak Amounts = | | | | | 0.93000 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 9544191 | 1.00000 | 0.95 | 0.00- 20.00 | 100.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 11310002 | 1.00000 | 0.96 | 0.00- 20.00 | 118.50 | BA |
| 7.338 | 7.338 | 0.000 | 5484640 | 1.00000 | 0.97 | 0.00- 20.00 | 57.47 | BA |
| 7.528 | 7.529 | -0.001 | 3228577 | 1.00000 | 0.94 | 0.00- 20.00 | 33.83 | BA |
| 7.986 | 7.987 | -0.001 | 2993726 | 1.00000 | 0.94 | 0.00- 20.00 | 31.37 | BA |
| Average of Peak Amounts = | | | | | 0.95200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 18449537 | 0.15000 | 0.14 | | | |

QC Flag Legend

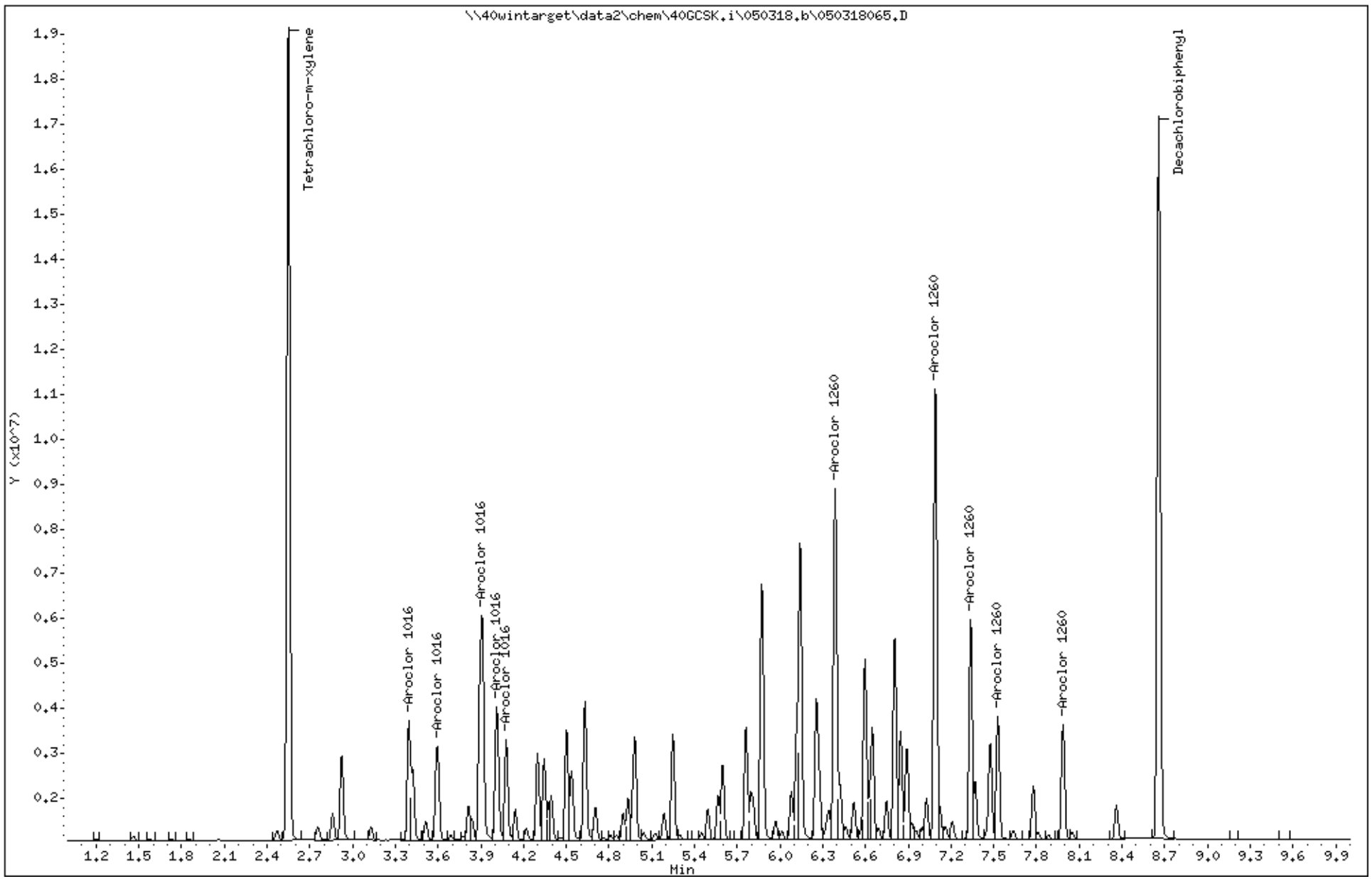
M - Compound response manually integrated.

Review Codes Legend

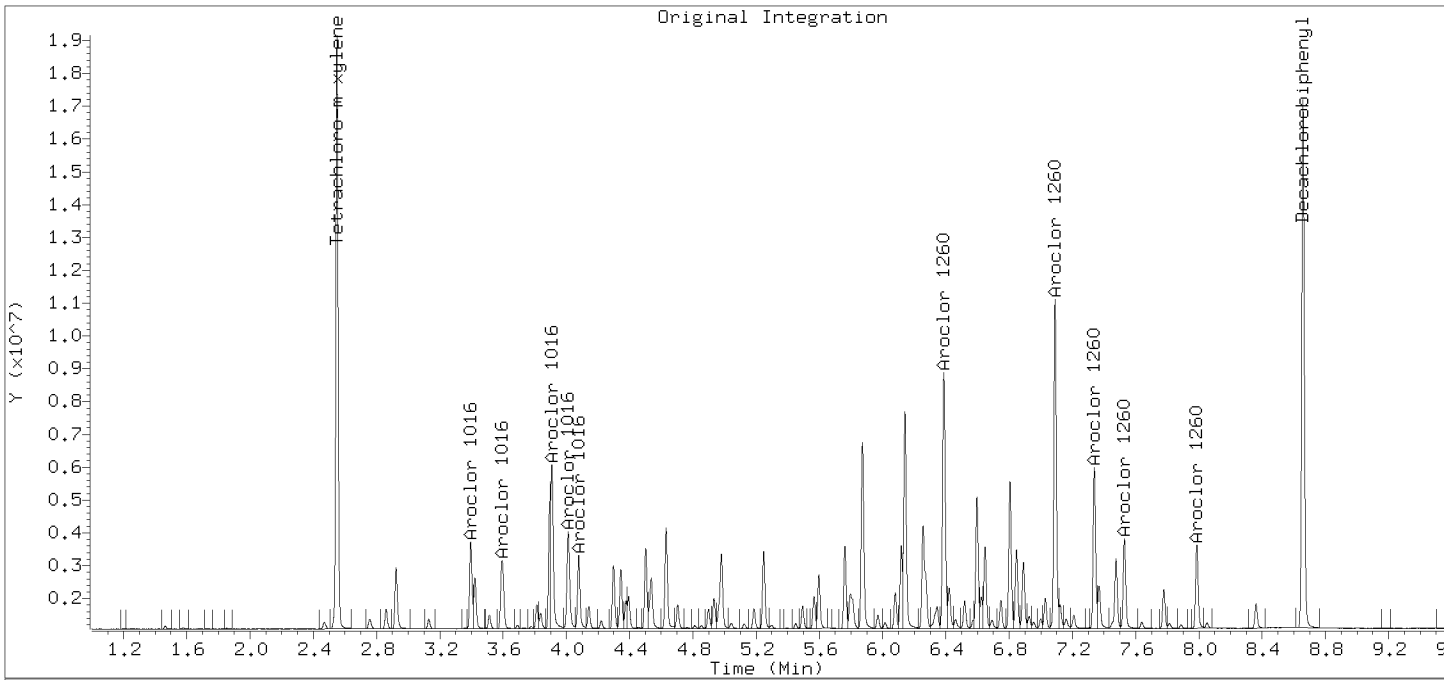
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

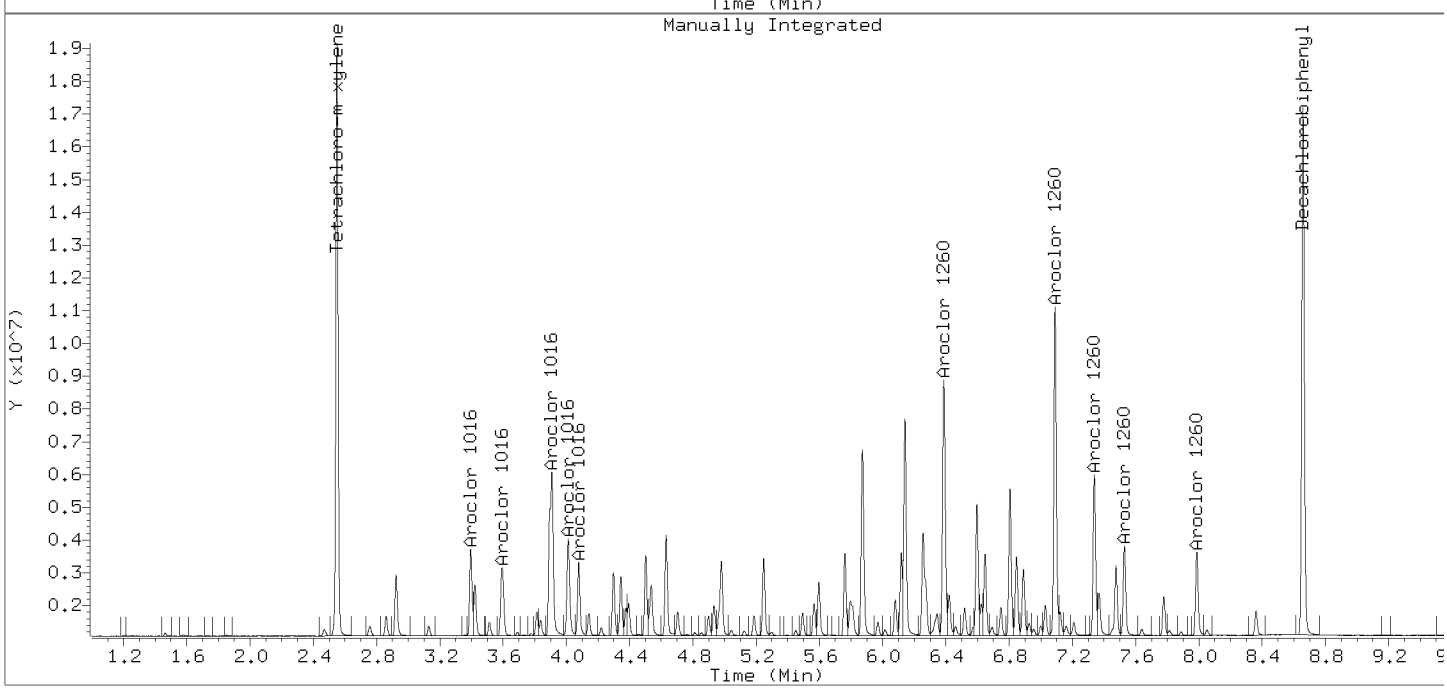
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Date : 03-MAY-2018 18:26
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

Instrument: 40GCSK.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318065.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL5A




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 2805643 | 2816368 | BA |
| Aroclor 1016 | 2805643 | 2816368 | BA |
| Aroclor 1016 | 2805643 | 2816368 | BA |
| Aroclor 1016 | 2805643 | 2816368 | BA |
| Aroclor 1016 | 2805643 | 2816368 | BA |
| Aroclor 1260 | 9525282 | 9544191 | BA |
| Aroclor 1260 | 9525282 | 9544191 | BA |
| Aroclor 1260 | 9525282 | 9544191 | BA |
| Aroclor 1260 | 9525282 | 9544191 | BA |
| Aroclor 1260 | 9525282 | 9544191 | BA |
| Tetrachloro-m-xylene | 17835724 | 17835724 | |
| Decachlorobiphenyl | 18449537 | 18449537 | |

# PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSK
Calibration Date: 5/3/2018

| Aroclor | True Value | Abundance Concentration | % Difference | Acceptance Criteria % | Pass/Fail |
|---|---|---|---|---|---|
| AR1221-CAL1 | .1 | 0.107248 | 7.248 | 20 | Pass |
| AR1242-CAL1 | .1 | 0.112708 | 12.708 | 20 | Pass |
| AR1248-CAL1 | .1 | 0.100845 | 0.845 | 20 | Pass |
| AR1254-CAL1 | .1 | 0.103878 | 3.878 | 20 | Pass |
| AR1016-CAL1 | .1 | 0.105964 | 5.964 | 20 | Pass |
| AR1260-CAL1 | .1 | 0.103447 | 3.447 | 20 | Pass |

SAMPLE NO.

10965753ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 18:58

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318069.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1221 | 1 | Averaged | 1.852 | 1.819 | 1.887 | 990400.050 | 1007748.00 | 1.7516 |
| Aroclor 1221 | 2 | Averaged | 2.472 | 2.437 | 2.505 | 527183.800 | 525090.000 | -0.3972 |
| Aroclor 1221 | 3 | Averaged | 2.757 | 2.724 | 2.792 | 1386989.95 | 1434412.00 | 3.4191 |
| Aroclor 1221 | 4 | Averaged | 2.861 | 2.826 | 2.894 | 1103515.20 | 1105148.00 | 0.1480 |
| Aroclor 1221 | 5 | Averaged | 2.924 | 2.889 | 2.957 | 3343089.15 | 3473996.00 | 3.9157 |
| Decachlorobiphenyl (S) | | Averaged | 8.658 | 8.623 | 8.691 | 133190612. | 126277860. | -5.1901 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 114744400. | -4.7300 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10965769ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:14

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318071.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1242 | 1 | Averaged | 3.395 | 3.362 | 3.43 | 2420361.20 | 2477562.00 | 2.3633 |
| Aroclor 1242 | 2 | Averaged | 3.592 | 3.558 | 3.626 | 2461220.20 | 2532278.00 | 2.8871 |
| Aroclor 1242 | 3 | Averaged | 3.908 | 3.875 | 3.943 | 7255531.45 | 7352366.00 | 1.3346 |
| Aroclor 1242 | 4 | Averaged | 4.01 | 3.977 | 4.045 | 3116237.30 | 3192204.00 | 2.4378 |
| Aroclor 1242 | 5 | Averaged | 4.077 | 4.044 | 4.112 | 2093297.05 | 2136002.00 | 2.0401 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 120978920. | -9.1686 |
| Tetrachloro-m-xylene | | Averaged | 2.548 | 2.515 | 2.583 | 120441301. | 109577260. | -9.0202 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10965760ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:30

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318073.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1248 | 1 | Averaged | 4.344 | 4.309 | 4.377 | 2385348.25 | 2537884.00 | 6.3947 |
| Aroclor 1248 | 2 | Averaged | 4.63 | 4.596 | 4.664 | 4247440.25 | 4466132.00 | 5.1488 |
| Aroclor 1248 | 3 | Averaged | 4.898 | 4.864 | 4.932 | 2037039.95 | 2219262.00 | 8.9454 |
| Aroclor 1248 | 4 | Averaged | 4.964 | 4.929 | 4.997 | 5477393.60 | 5820260.00 | 6.2597 |
| Aroclor 1248 | 5 | Averaged | 5.124 | 5.089 | 5.157 | 3783272.55 | 4083010.00 | 7.9227 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 123503360. | -7.2732 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 114009700. | -5.3400 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10965755ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:47

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318075.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1254 | 1 | Averaged | 5.247 | 5.214 | 5.282 | 5639619.40 | 5229098.00 | -7.2792 |
| Aroclor 1254 | 2 | Averaged | 5.493 | 5.458 | 5.526 | 4663763.05 | 4346390.00 | -6.8051 |
| Aroclor 1254 | 3 | Averaged | 5.596 | 5.562 | 5.63 | 8561997.90 | 7723550.00 | -9.7927 |
| Aroclor 1254 | 4 | Averaged | 6.115 | 6.079 | 6.147 | 5312874.15 | 4896798.00 | -7.8315 |
| Aroclor 1254 | 5 | Averaged | 6.386 | 6.353 | 6.421 | 7321092.90 | 7028970.00 | -3.9902 |
| Decachlorobiphenyl (S) | | Averaged | 8.658 | 8.623 | 8.691 | 133190612. | 124092700. | -6.8307 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 114866640. | -4.6285 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10965768ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 20:03

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318077.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1016 | 1 | Averaged | 3.394 | 3.361 | 3.429 | 3058740.35 | 3126392.00 | 2.2117 |
| Aroclor 1016 | 2 | Averaged | 3.594 | 3.558 | 3.626 | 3170920.60 | 3168508.00 | -0.0761 |
| Aroclor 1016 | 3 | Averaged | 3.908 | 3.875 | 3.943 | 9396963.20 | 9468364.00 | 0.7598 |
| Aroclor 1016 | 4 | Averaged | 4.011 | 3.977 | 4.045 | 4020815.35 | 4042920.00 | 0.5498 |
| Aroclor 1016 | 5 | Averaged | 4.077 | 4.044 | 4.112 | 2697941.65 | 2682334.00 | -0.5785 |
| Aroclor 1260 | 1 | Averaged | 6.386 | 6.353 | 6.421 | 10009982.0 | 9413384.00 | -5.9600 |
| Aroclor 1260 | 2 | Averaged | 7.09 | 7.056 | 7.124 | 11769278.7 | 11929928.0 | 1.3650 |
| Aroclor 1260 | 3 | Averaged | 7.337 | 7.304 | 7.372 | 5656294.05 | 5762990.00 | 1.8863 |
| Aroclor 1260 | 4 | Averaged | 7.528 | 7.495 | 7.563 | 3418830.60 | 3409380.00 | -0.2764 |
| Aroclor 1260 | 5 | Averaged | 7.986 | 7.953 | 8.021 | 3167096.35 | 3374502.00 | 6.5488 |
| Decachlorobiphenyl (S) | | Averaged | 8.656 | 8.623 | 8.691 | 133190612. | 125009800. | -6.1422 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 112020020. | -6.9920 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10983415CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 14:06

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718004.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1248 | 1 | Averaged | 4.344 | 4.309 | 4.377 | 2385348.25 | 2408228.00 | 0.9592 |
| Aroclor 1248 | 2 | Averaged | 4.63 | 4.596 | 4.664 | 4247440.25 | 4179566.00 | -1.5980 |
| Aroclor 1248 | 3 | Averaged | 4.897 | 4.864 | 4.932 | 2037039.95 | 2085936.00 | 2.4003 |
| Aroclor 1248 | 4 | Averaged | 4.964 | 4.929 | 4.997 | 5477393.60 | 5358524.00 | -2.1702 |
| Aroclor 1248 | 5 | Averaged | 5.123 | 5.089 | 5.157 | 3783272.55 | 3774028.00 | -0.2444 |
| Decachlorobiphenyl (S) | | Averaged | 8.656 | 8.623 | 8.691 | 133190612. | 119784660. | -10.0652 |
| Tetrachloro-m-xylene | | Averaged | 2.55 | 2.515 | 2.583 | 120441301. | 112451580. | -6.6337 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10983581CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 17:17

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718016.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1254 | 1 | Averaged | 5.247 | 5.214 | 5.282 | 5639619.40 | 5407266.00 | -4.1200 |
| Aroclor 1254 | 2 | Averaged | 5.493 | 5.458 | 5.526 | 4663763.05 | 4515790.00 | -3.1728 |
| Aroclor 1254 | 3 | Averaged | 5.595 | 5.562 | 5.63 | 8561997.90 | 8136290.00 | -4.9721 |
| Aroclor 1254 | 4 | Averaged | 6.113 | 6.079 | 6.147 | 5312874.15 | 5292702.00 | -0.3797 |
| Aroclor 1254 | 5 | Averaged | 6.385 | 6.353 | 6.421 | 7321092.90 | 7046954.00 | -3.7445 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 122835240. | -7.7749 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 114613060. | -4.8391 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10983580CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 20:27

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718028.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1016 | 1 | Averaged | 3.395 | 3.361 | 3.429 | 3058740.35 | 2900200.00 | -5.1832 |
| Aroclor 1016 | 2 | Averaged | 3.593 | 3.558 | 3.626 | 3170920.60 | 2916590.00 | -8.0207 |
| Aroclor 1016 | 3 | Averaged | 3.907 | 3.875 | 3.943 | 9396963.20 | 8651454.00 | -7.9335 |
| Aroclor 1016 | 4 | Averaged | 4.01 | 3.977 | 4.045 | 4020815.35 | 3683440.00 | -8.3907 |
| Aroclor 1016 | 5 | Averaged | 4.076 | 4.044 | 4.112 | 2697941.65 | 2468564.00 | -8.5019 |
| Aroclor 1260 | 1 | Averaged | 6.385 | 6.353 | 6.421 | 10009982.0 | 9189518.00 | -8.1965 |
| Aroclor 1260 | 2 | Averaged | 7.089 | 7.056 | 7.124 | 11769278.7 | 10724886.0 | -8.8739 |
| Aroclor 1260 | 3 | Averaged | 7.337 | 7.304 | 7.372 | 5656294.05 | 5292272.00 | -6.4357 |
| Aroclor 1260 | 4 | Averaged | 7.527 | 7.495 | 7.563 | 3418830.60 | 3090922.00 | -9.5913 |
| Aroclor 1260 | 5 | Averaged | 7.984 | 7.953 | 8.021 | 3167096.35 | 2919082.00 | -7.8310 |
| Decachlorobiphenyl (S) | | Averaged | 8.655 | 8.623 | 8.691 | 133190612. | 120651140. | -9.4147 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 110234300. | -8.4747 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10983582CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 23:37

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718040.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1221 | 1 | Averaged | 1.853 | 1.819 | 1.887 | 990400.050 | 927736.000 | -6.3271 |
| Aroclor 1221 | 2 | Averaged | 2.471 | 2.437 | 2.505 | 527183.800 | 489430.000 | -7.1614 |
| Aroclor 1221 | 3 | Averaged | 2.757 | 2.724 | 2.792 | 1386989.95 | 1304902.00 | -5.9184 |
| Aroclor 1221 | 4 | Averaged | 2.86 | 2.826 | 2.894 | 1103515.20 | 1010210.00 | -8.4553 |
| Aroclor 1221 | 5 | Averaged | 2.923 | 2.889 | 2.957 | 3343089.15 | 3166268.00 | -5.2892 |
| Decachlorobiphenyl (S) | | Averaged | 8.656 | 8.623 | 8.691 | 133190612. | 117674280. | -11.6497 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 109544300. | -9.0476 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10985972CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 02:47

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718052.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1232 | 1 | Averaged | 2.924 | 2.888 | 2.956 | 2694578.00 | 2660126.00 | -1.2786 |
| Aroclor 1232 | 2 | Averaged | 3.593 | 3.558 | 3.626 | 1418110.00 | 1387436.00 | -2.1630 |
| Aroclor 1232 | 3 | Averaged | 3.909 | 3.874 | 3.942 | 4136332.00 | 4105940.00 | -0.7348 |
| Aroclor 1232 | 4 | Averaged | 4.012 | 3.977 | 4.045 | 1788600.00 | 1752570.00 | -2.0144 |
| Aroclor 1232 | 5 | Averaged | 4.077 | 4.044 | 4.112 | 1171600.00 | 1158478.00 | -1.1200 |
| Decachlorobiphenyl (S) | | Averaged | 8.656 | 8.623 | 8.691 | 133190612. | 122278020. | -8.1932 |
| Tetrachloro-m-xylene | | Averaged | 2.55 | 2.515 | 2.583 | 120441301. | 113931080. | -5.4053 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10985971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 05:57

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718064.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1242 | 1 | Averaged | 3.395 | 3.362 | 3.43 | 2420361.20 | 2523242.00 | 4.2506 |
| Aroclor 1242 | 2 | Averaged | 3.593 | 3.558 | 3.626 | 2461220.20 | 2512572.00 | 2.0864 |
| Aroclor 1242 | 3 | Averaged | 3.908 | 3.875 | 3.943 | 7255531.45 | 7414610.00 | 2.1925 |
| Aroclor 1242 | 4 | Averaged | 4.011 | 3.977 | 4.045 | 3116237.30 | 3174138.00 | 1.8580 |
| Aroclor 1242 | 5 | Averaged | 4.078 | 4.044 | 4.112 | 2093297.05 | 2107202.00 | 0.6643 |
| Decachlorobiphenyl (S) | | Averaged | 8.656 | 8.623 | 8.691 | 133190612. | 123295920. | -7.4290 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 113514080. | -5.7515 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

11003837CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 14:04

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718076.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1248 | 1 | Averaged | 4.344 | 4.309 | 4.377 | 2385348.25 | 2462836.00 | 3.2485 |
| Aroclor 1248 | 2 | Averaged | 4.63 | 4.596 | 4.664 | 4247440.25 | 4285834.00 | 0.9039 |
| Aroclor 1248 | 3 | Averaged | 4.898 | 4.864 | 4.932 | 2037039.95 | 2200580.00 | 8.0283 |
| Aroclor 1248 | 4 | Averaged | 4.964 | 4.929 | 4.997 | 5477393.60 | 5501454.00 | 0.4393 |
| Aroclor 1248 | 5 | Averaged | 5.123 | 5.089 | 5.157 | 3783272.55 | 3924454.00 | 3.7317 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 124377160. | -6.6172 |
| Tetrachloro-m-xylene | | Averaged | 2.55 | 2.515 | 2.583 | 120441301. | 115021200. | -4.5002 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

11003838CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 17:14

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718088.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1254 | 1 | Averaged | 5.246 | 5.214 | 5.282 | 5639619.40 | 5642660.00 | 0.0539 |
| Aroclor 1254 | 2 | Averaged | 5.493 | 5.458 | 5.526 | 4663763.05 | 4706260.00 | 0.9112 |
| Aroclor 1254 | 3 | Averaged | 5.596 | 5.562 | 5.63 | 8561997.90 | 8426772.00 | -1.5794 |
| Aroclor 1254 | 4 | Averaged | 6.112 | 6.079 | 6.147 | 5312874.15 | 5599618.00 | 5.3972 |
| Aroclor 1254 | 5 | Averaged | 6.385 | 6.353 | 6.421 | 7321092.90 | 7410084.00 | 1.2155 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 125922660. | -5.4568 |
| Tetrachloro-m-xylene | | Averaged | 2.549 | 2.515 | 2.583 | 120441301. | 119848000. | -0.4926 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

11017116CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 19:53

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718098.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158029

| COMPOUND | PEAK | CURVE | RT | RT WINDOW | | $\overline{RRF}$ or Amount | RRF or Amount | %D |
|---|---|---|---|---|---|---|---|---|
| | | | | FROM | TO | | | |
| Aroclor 1016 | 1 | Averaged | 3.396 | 3.361 | 3.429 | 3058740.35 | 2906790.00 | -4.9677 |
| Aroclor 1016 | 2 | Averaged | 3.593 | 3.558 | 3.626 | 3170920.60 | 2898596.00 | -8.5882 |
| Aroclor 1016 | 3 | Averaged | 3.909 | 3.875 | 3.943 | 9396963.20 | 8653980.00 | -7.9066 |
| Aroclor 1016 | 4 | Averaged | 4.012 | 3.977 | 4.045 | 4020815.35 | 3678444.00 | -8.5150 |
| Aroclor 1016 | 5 | Averaged | 4.078 | 4.044 | 4.112 | 2697941.65 | 2471534.00 | -8.3919 |
| Aroclor 1260 | 1 | Averaged | 6.386 | 6.353 | 6.421 | 10009982.0 | 9217818.00 | -7.9137 |
| Aroclor 1260 | 2 | Averaged | 7.091 | 7.056 | 7.124 | 11769278.7 | 10775178.0 | -8.4466 |
| Aroclor 1260 | 3 | Averaged | 7.338 | 7.304 | 7.372 | 5656294.05 | 5325468.00 | -5.8488 |
| Aroclor 1260 | 4 | Averaged | 7.528 | 7.495 | 7.563 | 3418830.60 | 3088088.00 | -9.6741 |
| Aroclor 1260 | 5 | Averaged | 7.987 | 7.953 | 8.021 | 3167096.35 | 2920846.00 | -7.7753 |
| Decachlorobiphenyl (S) | | Averaged | 8.657 | 8.623 | 8.691 | 133190612. | 120708700. | -9.3715 |
| Tetrachloro-m-xylene | | Averaged | 2.55 | 2.515 | 2.583 | 120441301. | 109993800. | -8.6744 |

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV  Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 69  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1221.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.207 | 10135 | 9331 | 0.921 | 0.05 | | |
| 1.463 | 33399 | 34615 | 1.036 | 0.18 | | |
| 1.575 | 17542 | 14570 | 0.831 | 0.09 | | |
| 1.853 | 503874 | 494618 | 0.982 | 2.80 | 1 Aroclor 1221 | BA |
| 2.257 | 158186 | 139208 | 0.880 | 0.88 | | |
| 2.472 | 262546 | 197513 | 0.752 | 1.46 | 1 Aroclor 1221 | BA |
| 2.549 | 5737220 | 5706394 | 0.995 | 31.96 | $ 2 Tetrachloro-m-xylene | BA |
| 2.758 | 717206 | 552377 | 0.770 | 3.99 | 1 Aroclor 1221 | BA |
| 2.861 | 552574 | 499469 | 0.904 | 3.07 | 1 Aroclor 1221 | BA |
| 2.924 | 1736998 | 1460097 | 0.841 | 9.67 | 1 Aroclor 1221 | BA |
| 3.129 | 36897 | 29553 | 0.801 | 0.20 | | |
| 3.360 | 104991 | 80618 | 0.768 | 0.58 | | |
| 3.405 | 393120 | 182077 | 0.463 | 2.19 | | |
| 3.514 | 34555 | 28693 | 0.830 | 0.19 | | |
| 3.594 | 137761 | 102991 | 0.748 | 0.76 | | |
| 3.689 | 34161 | 33255 | 0.973 | 0.19 | | |
| 3.815 | 33693 | 34208 | 1.015 | 0.18 | | |
| 3.839 | 39250 | 34125 | 0.869 | 0.21 | | |
| 3.910 | 326318 | 181143 | 0.555 | 1.81 | | |
| 4.013 | 164038 | 127239 | 0.776 | 0.91 | | |
| 4.079 | 97856 | 80038 | 0.818 | 0.54 | | |
| 4.139 | 19294 | 12630 | 0.655 | 0.10 | | |
| 4.298 | 32817 | 31230 | 0.952 | 0.18 | | |
| 4.345 | 27622 | 28227 | 1.022 | 0.15 | | |
| 4.504 | 43682 | 39992 | 0.916 | 0.24 | | |
| 4.537 | 47300 | 32921 | 0.696 | 0.26 | | |
| 4.632 | 62207 | 47040 | 0.756 | 0.34 | | |
| 4.706 | 13166 | 12292 | 0.934 | 0.07 | | |
| 4.900 | 20123 | 16804 | 0.835 | 0.11 | | |
| 4.933 | 35882 | 28983 | 0.808 | 0.19 | | |
| 4.967 | 49699 | 29730 | 0.598 | 0.27 | | |
| 5.127 | 29261 | 25198 | 0.861 | 0.16 | | |
| 5.595 | 16467 | 11253 | 0.683 | 0.09 | | |
| 7.815 | 13184 | 17004 | 1.290 | 0.07 | | |
| 7.887 | 10745 | 11079 | 1.031 | 0.05 | | |
| 8.364 | 48778 | 41142 | 0.843 | 0.27 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.658 | 6313893 | 5197016 | 0.823 | 35.38 | $ 12 Decachlorobiphenyl |
| 9.004 | 19528 | 13755 | 0.704 | 0.10 | |
| 9.528 | 11239 | 10915 | 0.971 | 0.06 | |
| | 17947208 | 15629343 | | 100.000 | |

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV  Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 69  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1221.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5737220 | 0.05000 | 0.048 | | (M) | BA |
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.852 | 1.853 | -0.001 | 503874 | 0.50000 | 0.51 | 0.00- 20.00 | 100.00(M) | BA |
| 2.472 | 2.471 | 0.001 | 262545 | 0.50000 | 0.50 | 0.00- 20.00 | 52.11 | BA |
| 2.757 | 2.758 | -0.001 | 717206 | 0.50000 | 0.52 | 0.00- 20.00 | 142.34 | BA |
| 2.861 | 2.860 | 0.001 | 552574 | 0.50000 | 0.50 | 0.00- 20.00 | 109.67 | BA |
| 2.924 | 2.923 | 0.001 | 1736998 | 0.50000 | 0.52 | 0.00- 20.00 | 344.73 | BA |
| Average of Peak Amounts = | | | | | 0.51000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.658 | 8.657 | 0.001 | 6313893 | 0.05000 | 0.047 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D



Date : 03-MAY-2018 18:58

Client ID: 1221-ICV

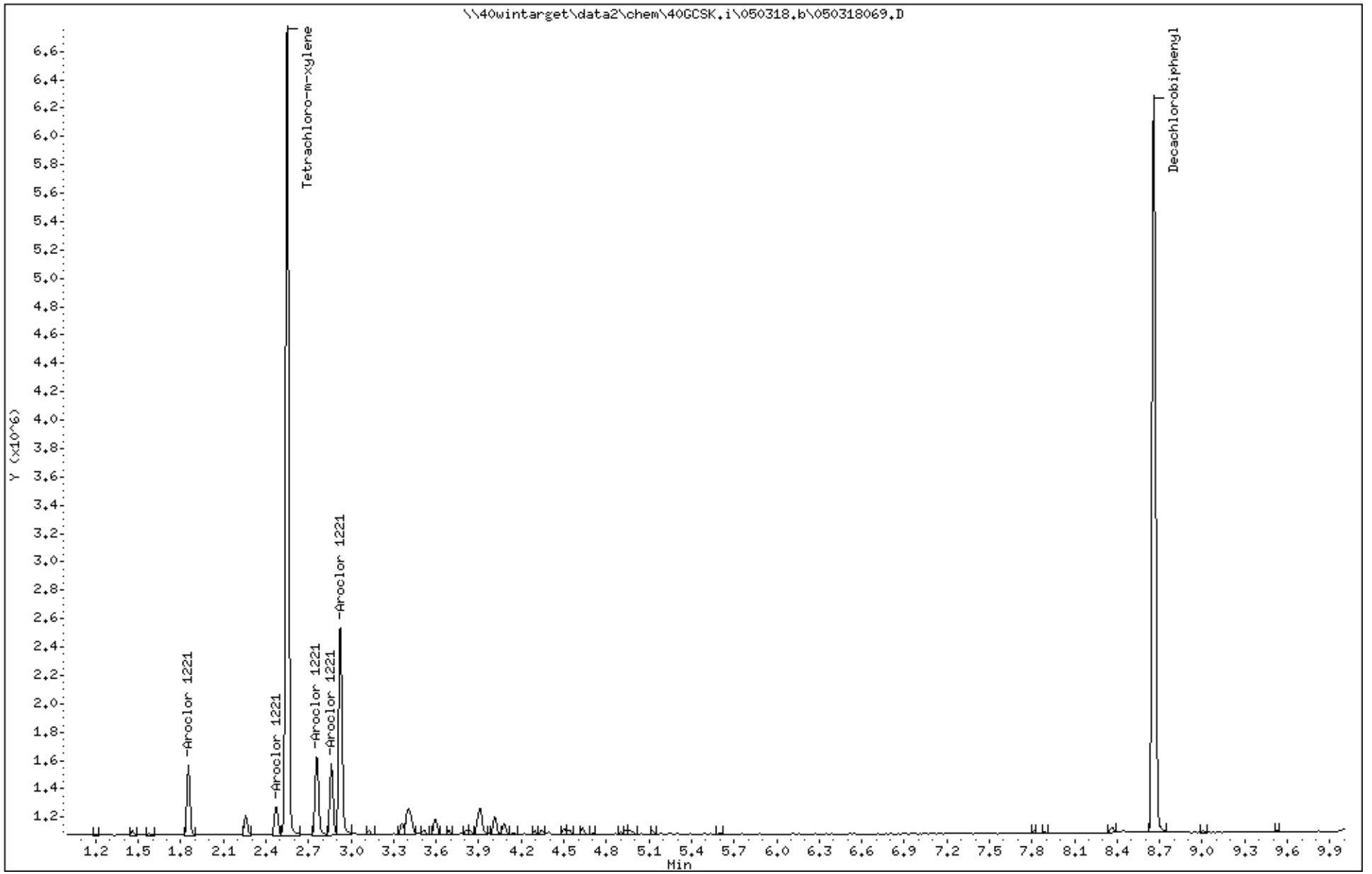
Instrument: 40GCSK.i

Sample Info: 1221-ICV, 188142:1

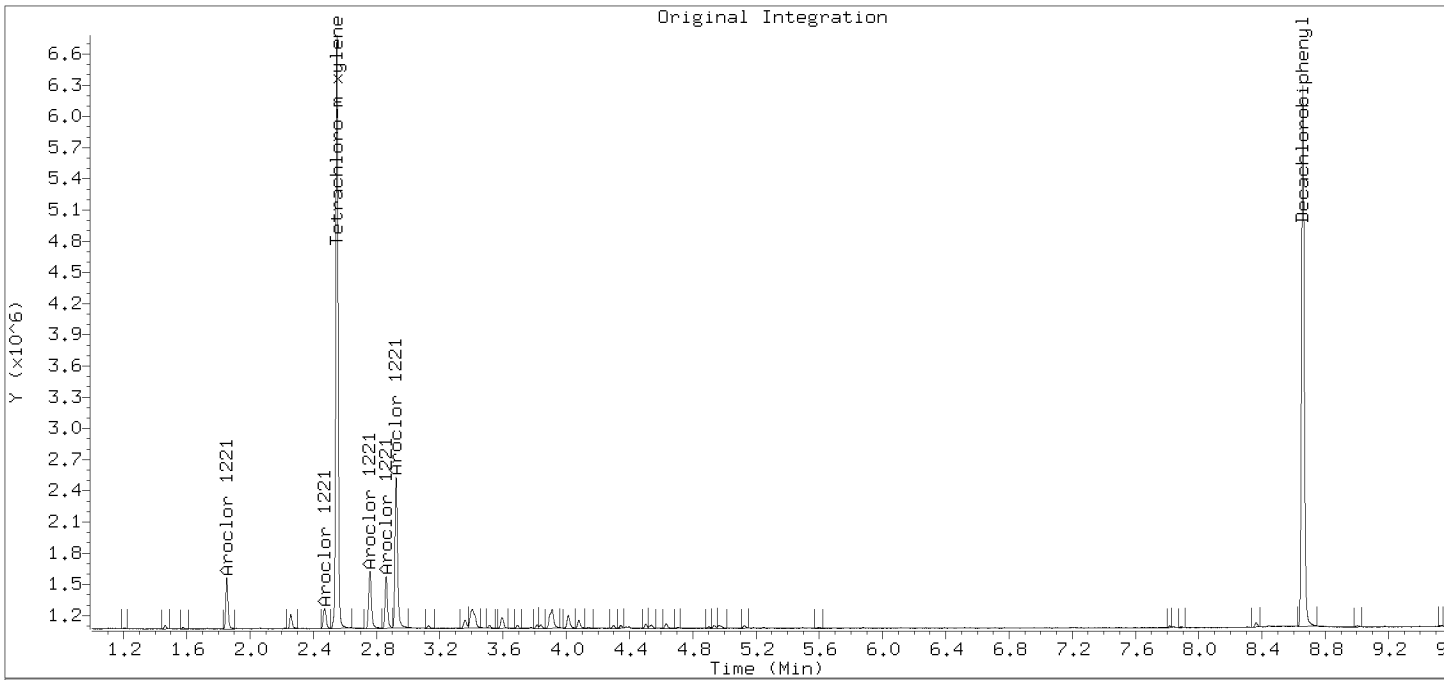
Operator: BLM

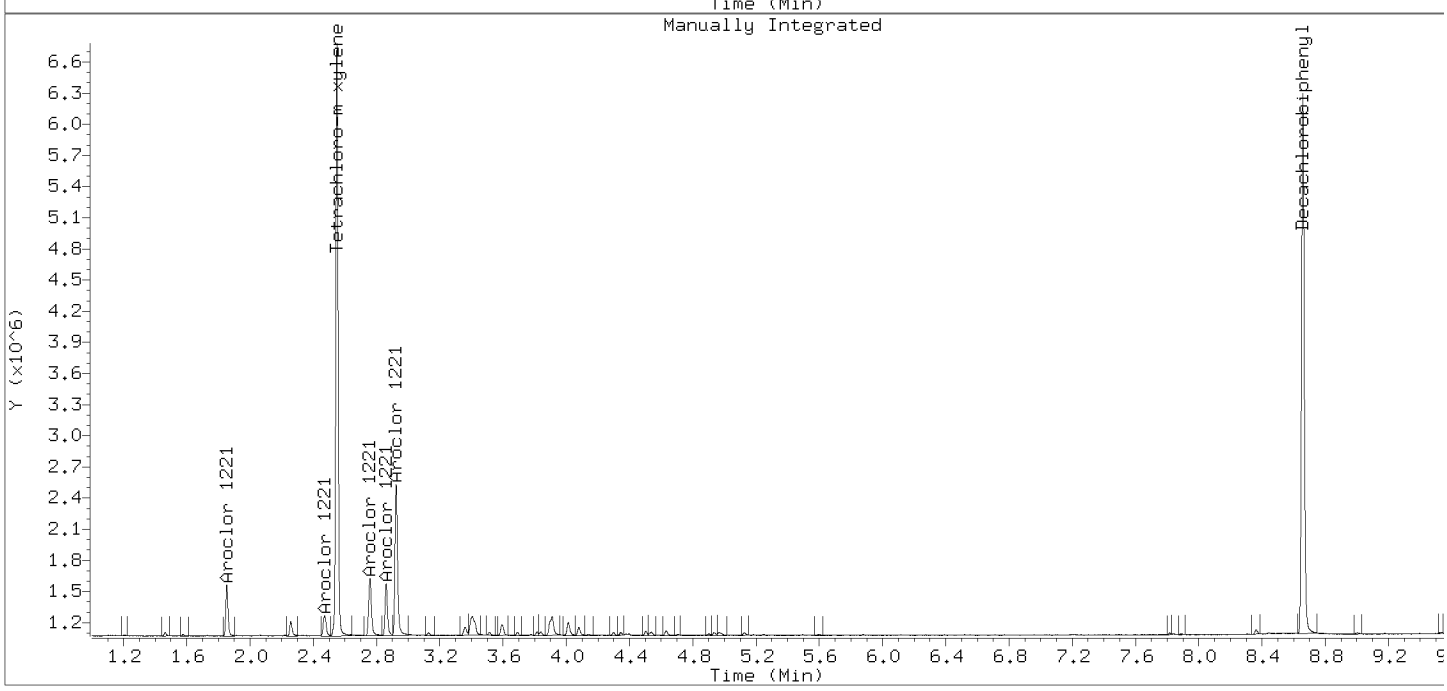
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318069.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-MAY-2018 18:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-ICV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 499216 | 503874 | BA |
| Aroclor 1221 | 499216 | 503874 | BA |
| Aroclor 1221 | 499216 | 503874 | BA |
| Aroclor 1221 | 499216 | 503874 | BA |
| Aroclor 1221 | 499216 | 503874 | BA |
| Tetrachloro-m-xylene | 5693206 | 5737220 | BA |
| Decachlorobiphenyl | 6313893 | 6313893 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV  Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 71  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1242.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.463 | 35844 | 32368 | 0.903 | 0.09 | | |
| 1.573 | 12277 | 13515 | 1.101 | 0.03 | | |
| 1.855 | 13915 | 13578 | 0.976 | 0.03 | | |
| 2.469 | 123641 | 99090 | 0.801 | 0.31 | | |
| 2.548 | 5478863 | 5513963 | 1.006 | 14.02 | $ 2 Tetrachloro-m-xylene | |
| 2.756 | 176106 | 135858 | 0.771 | 0.45 | | |
| 2.860 | 267820 | 244962 | 0.915 | 0.68 | | |
| 2.923 | 969700 | 871908 | 0.899 | 2.48 | | |
| 3.130 | 133618 | 125837 | 0.942 | 0.34 | | |
| 3.358 | 17584 | 13995 | 0.796 | 0.04 | | |
| 3.395 | 1238781 | 1167381 | 0.942 | 3.17 | 3 Aroclor 1242 | BA |
| 3.421 | 765819 | 693705 | 0.906 | 1.95 | | |
| 3.512 | 208025 | 179412 | 0.862 | 0.53 | | |
| 3.593 | 1266139 | 927695 | 0.733 | 3.24 | 3 Aroclor 1242 | BA |
| 3.690 | 44178 | 35695 | 0.808 | 0.11 | | |
| 3.776 | 33544 | 30658 | 0.914 | 0.08 | | |
| 3.812 | 301547 | 295558 | 0.980 | 0.77 | | |
| 3.837 | 225630 | 189949 | 0.842 | 0.57 | | |
| 3.908 | 3676183 | 2044328 | 0.556 | 9.40 | 3 Aroclor 1242 | BA |
| 4.011 | 1596102 | 1247807 | 0.782 | 4.08 | 3 Aroclor 1242 | BA |
| 4.078 | 1068001 | 925745 | 0.867 | 2.73 | 3 Aroclor 1242 | BA |
| 4.142 | 321981 | 254278 | 0.790 | 0.82 | | |
| 4.221 | 125370 | 104037 | 0.830 | 0.32 | | |
| 4.298 | 841555 | 771015 | 0.916 | 2.15 | | |
| 4.344 | 793916 | 748154 | 0.942 | 2.03 | | |
| 4.376 | 315909 | 328421 | 1.040 | 0.80 | | |
| 4.393 | 433556 | 372521 | 0.859 | 1.10 | | |
| 4.458 | 31124 | 20639 | 0.663 | 0.07 | | |
| 4.501 | 1109212 | 1023415 | 0.923 | 2.83 | | |
| 4.536 | 927315 | 663293 | 0.715 | 2.37 | | |
| 4.630 | 1437315 | 1270850 | 0.884 | 3.67 | | |
| 4.703 | 352433 | 299019 | 0.848 | 0.90 | | |
| 4.763 | 26140 | 19304 | 0.738 | 0.06 | | |
| 4.813 | 74483 | 54965 | 0.738 | 0.19 | | |
| 4.854 | 76111 | 68339 | 0.898 | 0.19 | | |
| 4.898 | 642501 | 599914 | 0.934 | 1.64 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.933 | 1189632 | 1086480 | 0.913 | 3.04 | |
| 4.964 | 1585444 | 1088926 | 0.687 | 4.05 | |
| 5.044 | 193808 | 125081 | 0.645 | 0.49 | |
| 5.124 | 1287043 | 1106454 | 0.860 | 3.29 | |
| 5.186 | 285073 | 204208 | 0.716 | 0.72 | |
| 5.247 | 298428 | 246314 | 0.825 | 0.76 | |
| 5.298 | 224255 | 179959 | 0.802 | 0.57 | |
| 5.368 | 18579 | 18212 | 0.980 | 0.04 | |
| 5.396 | 48640 | 39736 | 0.817 | 0.12 | |
| 5.450 | 177459 | 151389 | 0.853 | 0.45 | |
| 5.494 | 308823 | 255444 | 0.827 | 0.79 | |
| 5.532 | 199856 | 165365 | 0.827 | 0.51 | |
| 5.596 | 526300 | 386988 | 0.735 | 1.34 | |
| 5.693 | 157265 | 131789 | 0.838 | 0.40 | |
| 5.760 | 26821 | 16575 | 0.618 | 0.06 | |
| 5.799 | 21934 | 21663 | 0.988 | 0.05 | |
| 5.828 | 42234 | 31503 | 0.746 | 0.10 | |
| 5.878 | 353196 | 242396 | 0.686 | 0.90 | |
| 5.978 | 47132 | 28120 | 0.597 | 0.12 | |
| 6.113 | 339947 | 224601 | 0.661 | 0.86 | |
| 6.254 | 24579 | 16569 | 0.674 | 0.06 | |
| 6.388 | 63419 | 54698 | 0.862 | 0.16 | |
| 6.417 | 12340 | 12413 | 1.006 | 0.03 | |
| 6.593 | 10963 | 10303 | 0.940 | 0.02 | |
| 6.624 | 30366 | 20043 | 0.660 | 0.07 | |
| 6.894 | 14033 | 11760 | 0.838 | 0.03 | |
| 7.089 | 17453 | 15010 | 0.860 | 0.04 | |
| 7.816 | 20478 | 18550 | 0.906 | 0.05 | |
| 7.841 | 32277 | 24888 | 0.771 | 0.08 | |
| 8.360 | 51166 | 42588 | 0.832 | 0.13 | |
| 8.440 | 56079 | 36321 | 0.648 | 0.14 | |
| 8.658 | 6048946 | 5104647 | 0.844 | 15.79 | $ 12 Decachlorobiphenyl |
| 9.001 | 79156 | 50822 | 0.642 | 0.20 | |
| 9.526 | 120210 | 70478 | 0.586 | 0.30 | |
| | 39075573 | 32641464 | | 100.000 | |

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV  Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 71  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1242.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.548 | 2.549 | -0.001 | 5478863 | 0.05000 | 0.045 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1238781 | 0.50000 | 0.51 | 0.00- 20.00 | 100.00(M) | BA |
| 3.592 | 3.592 | 0.000 | 1266139 | 0.50000 | 0.51 | 0.00- 20.00 | 102.21 | BA |
| 3.908 | 3.909 | -0.001 | 3676183 | 0.50000 | 0.51 | 0.00- 20.00 | 296.76 | BA |
| 4.010 | 4.011 | -0.001 | 1596102 | 0.50000 | 0.51 | 0.00- 20.00 | 128.84 | BA |
| 4.077 | 4.078 | -0.001 | 1068001 | 0.50000 | 0.51 | 0.00- 20.00 | 86.21 | BA |
| Average of Peak Amounts = | | | | | 0.51000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6048946 | 0.05000 | 0.045 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

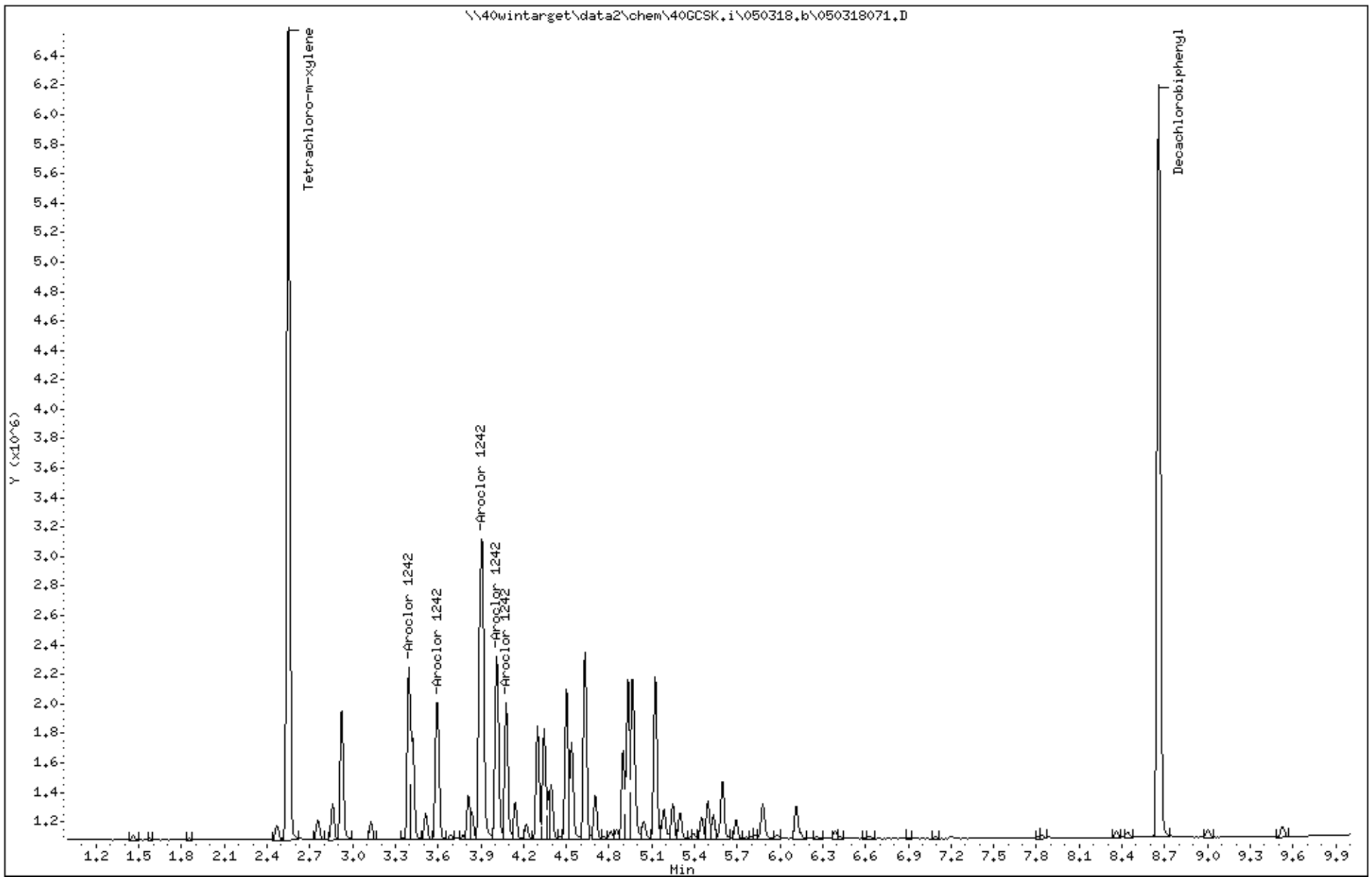
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Date : 03-MAY-2018 19:14
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

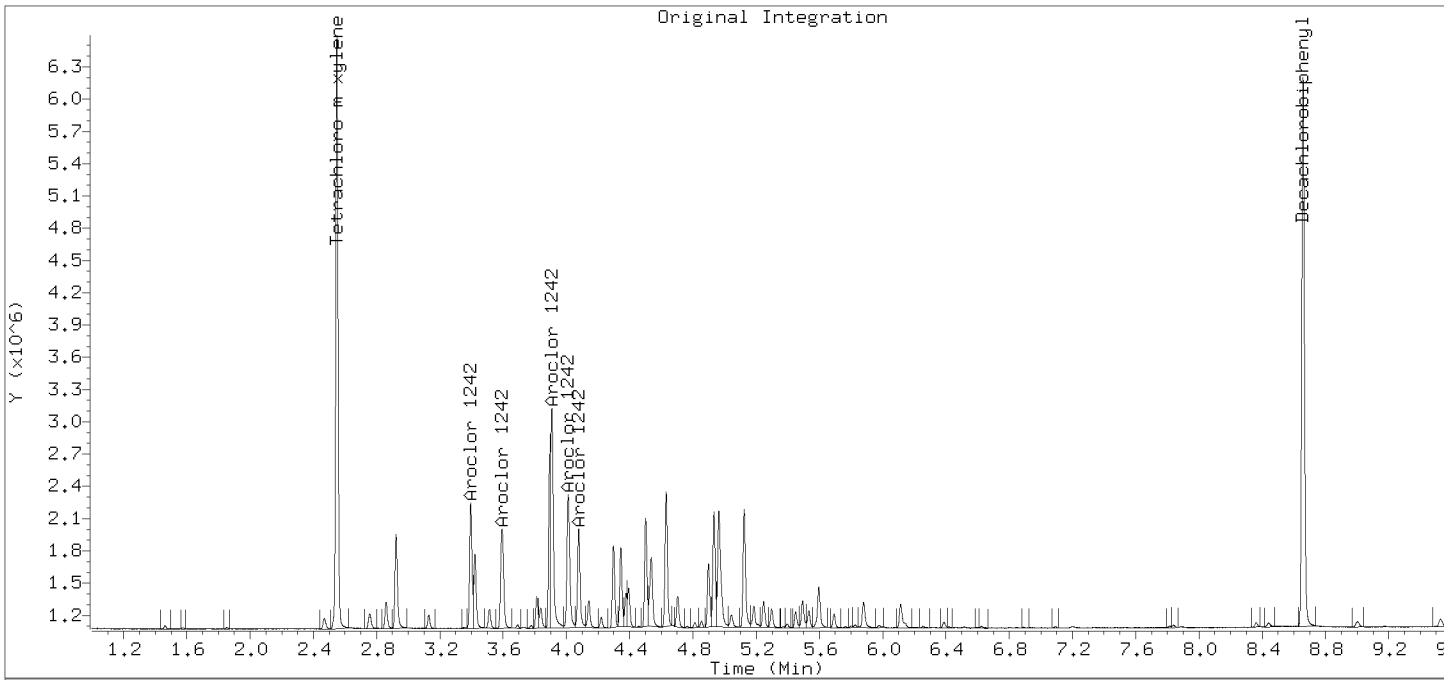
Instrument: 40GCSK.i

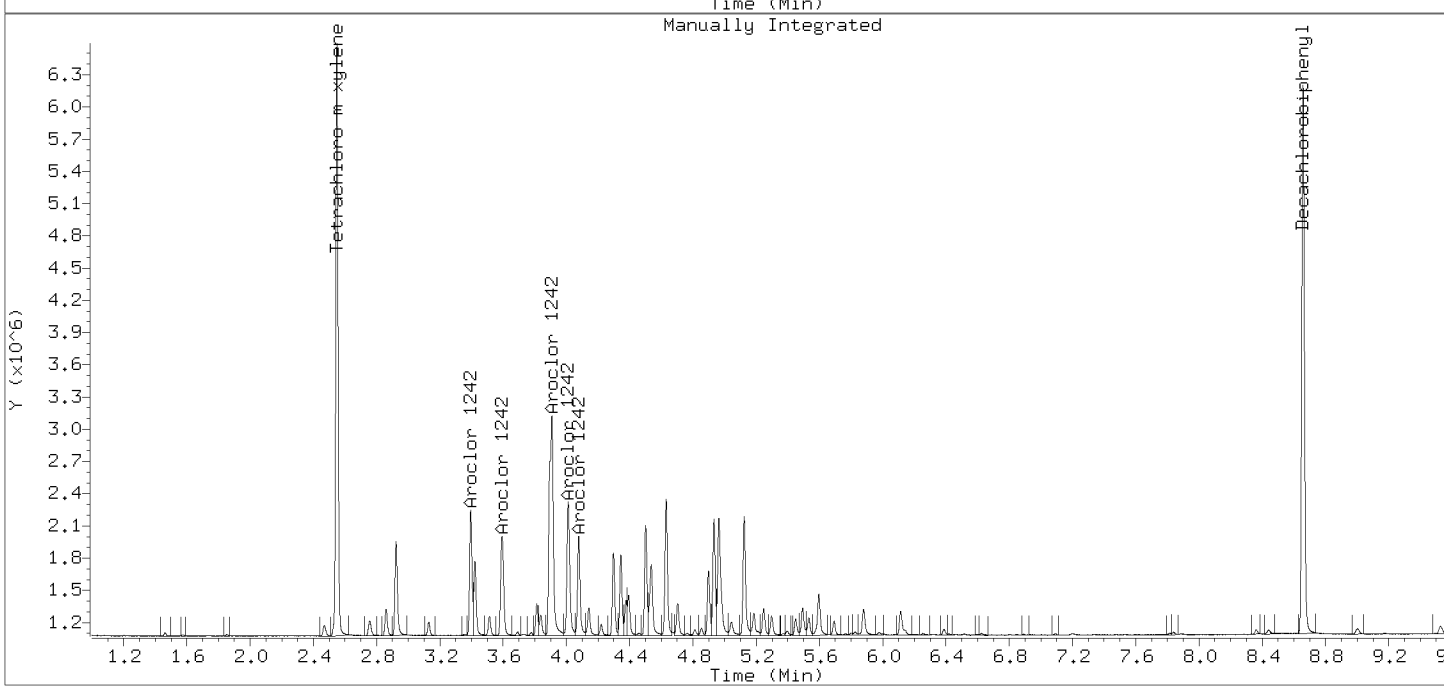
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318071.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 03-MAY-2018 19:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-ICV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 1232012 | 1238781 | BA |
| Aroclor 1242 | 1232012 | 1238781 | BA |
| Aroclor 1242 | 1232012 | 1238781 | BA |
| Aroclor 1242 | 1232012 | 1238781 | BA |
| Aroclor 1242 | 1232012 | 1238781 | BA |
| Tetrachloro-m-xylene | 5478863 | 5478863 | |
| Decachlorobiphenyl | 6048946 | 6048946 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV  Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 73  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.201 | 13077 | 11111 | 0.850 | 0.02 | | |
| 1.462 | 40308 | 33423 | 0.829 | 0.08 | | |
| 1.577 | 14087 | 13915 | 0.988 | 0.03 | | |
| 2.550 | 5700485 | 5690886 | 0.998 | 12.26 | $ 2 Tetrachloro-m-xylene | |
| 2.857 | 96917 | 86462 | 0.892 | 0.20 | | |
| 2.923 | 99052 | 81130 | 0.819 | 0.21 | | |
| 3.129 | 46038 | 43514 | 0.945 | 0.09 | | |
| 3.396 | 642155 | 631729 | 0.984 | 1.38 | | |
| 3.422 | 279406 | 240309 | 0.860 | 0.60 | | |
| 3.513 | 47670 | 43518 | 0.913 | 0.10 | | |
| 3.595 | 527858 | 379953 | 0.720 | 1.13 | | |
| 3.689 | 38993 | 36122 | 0.926 | 0.08 | | |
| 3.814 | 131939 | 95879 | 0.727 | 0.28 | | |
| 3.896 | 1026878 | 1125360 | 1.096 | 2.21 | | |
| 3.908 | 1318198 | 1163514 | 0.883 | 2.83 | | |
| 4.014 | 873398 | 635447 | 0.728 | 1.87 | | |
| 4.078 | 576997 | 486531 | 0.843 | 1.24 | | |
| 4.142 | 375813 | 332174 | 0.884 | 0.80 | | |
| 4.220 | 154503 | 133758 | 0.866 | 0.33 | | |
| 4.298 | 1545431 | 1408016 | 0.911 | 3.32 | | |
| 4.344 | 1268942 | 1177626 | 0.928 | 2.73 | 6 Aroclor 1248 | BA |
| 4.377 | 509119 | 545631 | 1.072 | 1.09 | | |
| 4.393 | 654561 | 542912 | 0.829 | 1.40 | | |
| 4.501 | 1870533 | 1736730 | 0.928 | 4.02 | | |
| 4.537 | 1017858 | 831513 | 0.817 | 2.19 | | |
| 4.630 | 2233067 | 1945005 | 0.871 | 4.80 | 6 Aroclor 1248 | BA |
| 4.703 | 533791 | 462216 | 0.866 | 1.14 | | |
| 4.763 | 38285 | 26426 | 0.690 | 0.08 | | |
| 4.811 | 70035 | 50273 | 0.718 | 0.15 | | |
| 4.853 | 121261 | 105557 | 0.870 | 0.26 | | |
| 4.898 | 1109631 | 1062433 | 0.957 | 2.38 | 6 Aroclor 1248 | BA |
| 4.932 | 2167426 | 1954051 | 0.902 | 4.66 | | |
| 4.965 | 2910130 | 1804455 | 0.620 | 6.26 | 6 Aroclor 1248 | BA |
| 5.043 | 395059 | 272984 | 0.691 | 0.85 | | |
| 5.124 | 2041506 | 1732611 | 0.849 | 4.39 | 6 Aroclor 1248 | BA |
| 5.185 | 667983 | 564724 | 0.845 | 1.43 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.211 | 84240 | 87652 | 1.041 | 0.18 | |
| 5.247 | 852365 | 736449 | 0.864 | 1.83 | |
| 5.298 | 652235 | 543651 | 0.834 | 1.40 | |
| 5.367 | 50821 | 41542 | 0.817 | 0.10 | |
| 5.394 | 138318 | 111668 | 0.807 | 0.29 | |
| 5.450 | 531494 | 440749 | 0.829 | 1.14 | |
| 5.494 | 899453 | 770622 | 0.857 | 1.93 | |
| 5.533 | 576847 | 490901 | 0.851 | 1.24 | |
| 5.596 | 1515566 | 1188962 | 0.785 | 3.26 | |
| 5.691 | 456735 | 373651 | 0.818 | 0.98 | |
| 5.761 | 47093 | 34421 | 0.731 | 0.10 | |
| 5.801 | 86395 | 63657 | 0.737 | 0.18 | |
| 5.827 | 108747 | 92762 | 0.853 | 0.23 | |
| 5.879 | 1092155 | 787035 | 0.721 | 2.35 | |
| 5.977 | 157484 | 83047 | 0.527 | 0.33 | |
| 6.080 | 33565 | 27970 | 0.833 | 0.07 | |
| 6.113 | 990166 | 725645 | 0.733 | 2.13 | |
| 6.256 | 75887 | 53287 | 0.702 | 0.16 | |
| 6.314 | 62899 | 29916 | 0.476 | 0.13 | |
| 6.386 | 243403 | 197816 | 0.813 | 0.52 | |
| 6.421 | 55951 | 41464 | 0.741 | 0.12 | |
| 6.460 | 41540 | 30769 | 0.741 | 0.08 | |
| 6.599 | 14833 | 14769 | 0.996 | 0.03 | |
| 6.625 | 92957 | 67554 | 0.727 | 0.20 | |
| 6.804 | 19855 | 16628 | 0.837 | 0.04 | |
| 6.848 | 10150 | 10279 | 1.013 | 0.02 | |
| 6.891 | 39848 | 33489 | 0.840 | 0.08 | |
| 6.930 | 10350 | 9033 | 0.873 | 0.02 | |
| 7.093 | 42725 | 33246 | 0.778 | 0.09 | |
| 7.337 | 15785 | 17428 | 1.104 | 0.03 | |
| 7.530 | 10456 | 11576 | 1.107 | 0.02 | |
| 7.816 | 15398 | 16262 | 1.056 | 0.03 | |
| 7.987 | 13351 | 10754 | 0.805 | 0.02 | |
| 8.361 | 57119 | 44383 | 0.777 | 0.12 | |
| 8.446 | 13733 | 9579 | 0.698 | 0.02 | |
| 8.657 | 6175168 | 5142488 | 0.833 | 13.60 | $ 12 Decachlorobiphenyl |
| 9.000 | 10534 | 11040 | 1.048 | 0.02 | |
| 9.174 | 10329 | 8529 | 0.826 | 0.02 | |
| | 46464343 | 39898571 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV  Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 73  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5700485 | 0.05000 | 0.047 | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1268942 | 0.50000 | 0.53 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 2233066 | 0.50000 | 0.52 | 0.00- 20.00 | 175.98 | BA |
| 4.898 | 4.898 | 0.000 | 1109631 | 0.50000 | 0.54 | 0.00- 20.00 | 87.45 | BA |
| 4.964 | 4.963 | 0.001 | 2910130 | 0.50000 | 0.53 | 0.00- 20.00 | 229.34 | BA |
| 5.124 | 5.123 | 0.001 | 2041505 | 0.50000 | 0.54 | 0.00- 20.00 | 160.88 | BA |
| Average of Peak Amounts = | | | | | 0.53200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6175168 | 0.05000 | 0.046 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

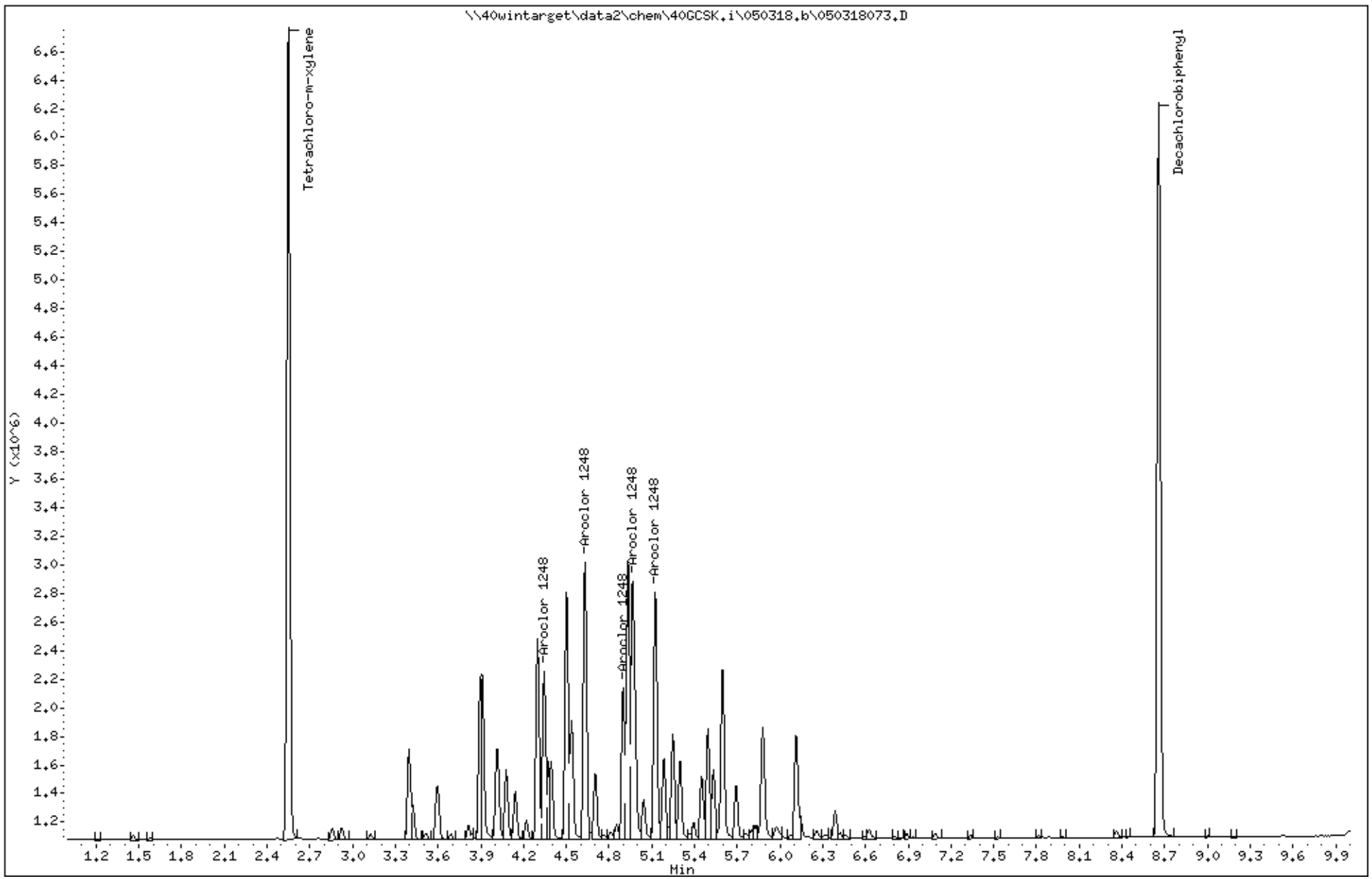
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Date : 03-MAY-2018 19:30
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

Instrument: 40GCSK.i

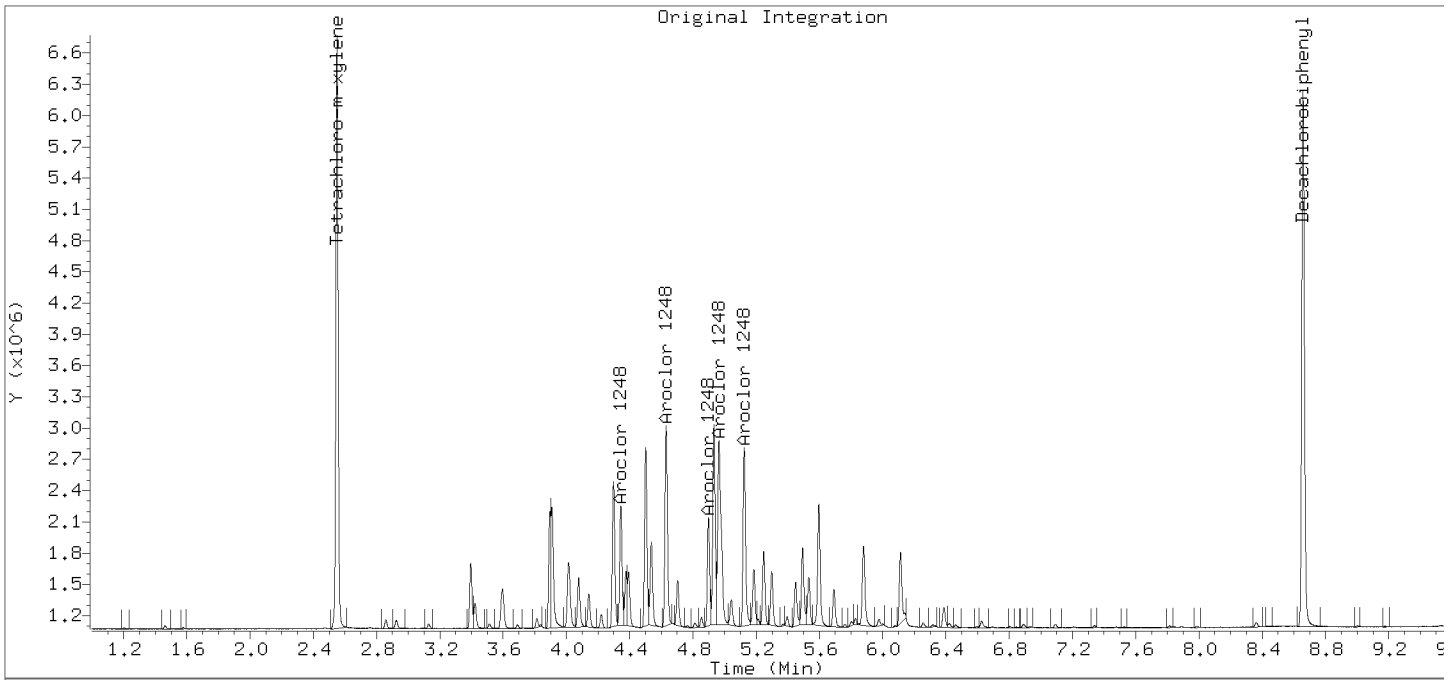
Operator: BLM

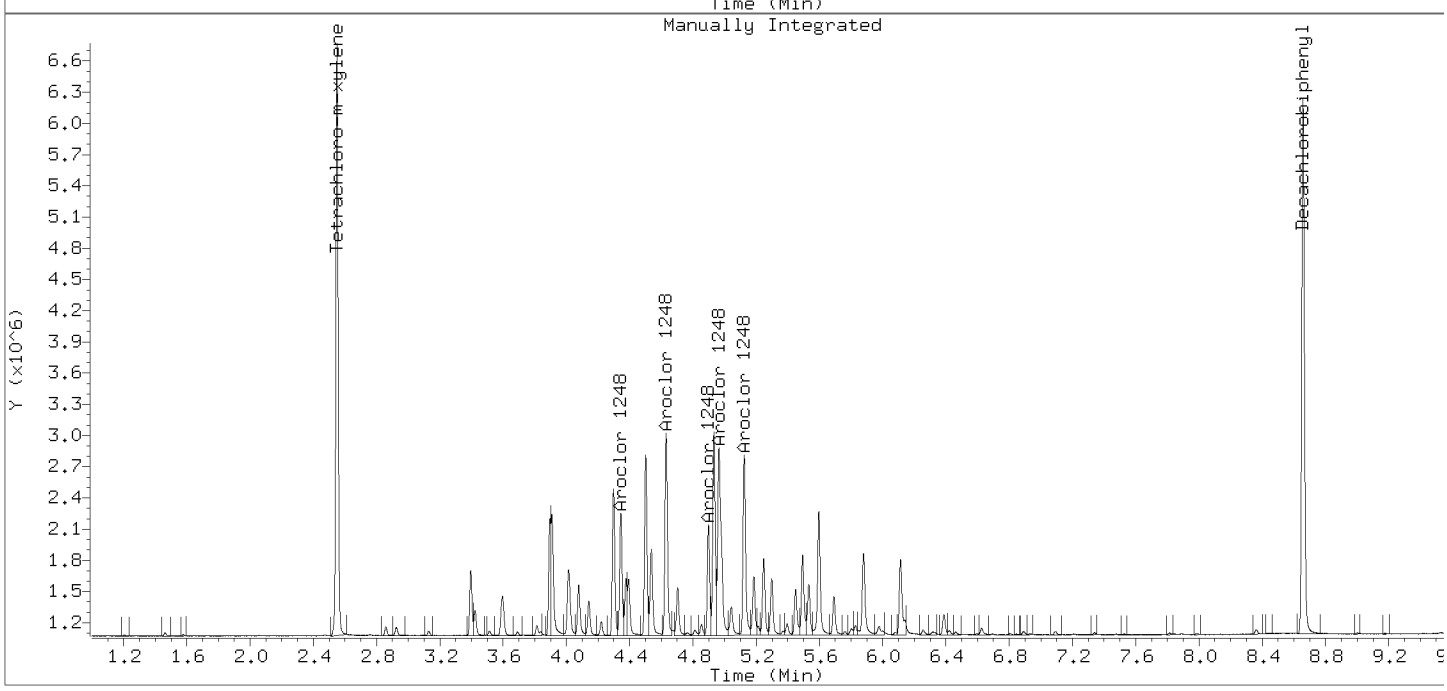
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318073.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 03-MAY-2018 19:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-ICV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 1202141 | 1268942 | BA |
| Aroclor 1248 | 1202141 | 1268942 | BA |
| Aroclor 1248 | 1202141 | 1268942 | BA |
| Aroclor 1248 | 1202141 | 1268942 | BA |
| Aroclor 1248 | 1202141 | 1268942 | BA |
| Tetrachloro-m-xylene | 5700485 | 5700485 | |
| Decachlorobiphenyl | 6175168 | 6175168 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318075.D
Lab Smp Id: 1254-ICV  Client Smp ID: 1254-ICV
Inj Date : 03-MAY-2018 19:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 75  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 17099 | 17961 | 1.050 | 0.03 | | |
| 1.464 | 31166 | 33364 | 1.071 | 0.05 | | |
| 1.577 | 14206 | 14058 | 0.990 | 0.02 | | |
| 1.731 | 11847 | 9407 | 0.794 | 0.02 | | |
| 2.060 | 15196 | 12514 | 0.824 | 0.02 | | |
| 2.549 | 5743333 | 5753407 | 1.002 | 10.47 | $ 2 Tetrachloro-m-xylene | |
| 2.627 | 12732 | 9353 | 0.735 | 0.02 | | |
| 2.858 | 79639 | 77785 | 0.977 | 0.14 | | |
| 2.927 | 12980 | 8985 | 0.692 | 0.02 | | |
| 3.125 | 16855 | 16020 | 0.950 | 0.03 | | |
| 3.397 | 16419 | 18396 | 1.120 | 0.02 | | |
| 3.594 | 17751 | 13278 | 0.748 | 0.03 | | |
| 3.691 | 37251 | 35004 | 0.940 | 0.06 | | |
| 3.896 | 63801 | 33202 | 0.520 | 0.11 | | |
| 4.018 | 41828 | 32657 | 0.781 | 0.07 | | |
| 4.077 | 17769 | 15744 | 0.886 | 0.03 | | |
| 4.143 | 11045 | 11484 | 1.040 | 0.02 | | |
| 4.297 | 1140921 | 1054492 | 0.924 | 2.07 | | |
| 4.344 | 318256 | 288043 | 0.905 | 0.58 | | |
| 4.377 | 85603 | 48763 | 0.570 | 0.15 | | |
| 4.501 | 656003 | 628544 | 0.958 | 1.19 | | |
| 4.537 | 85551 | 62215 | 0.727 | 0.15 | | |
| 4.631 | 299718 | 265589 | 0.886 | 0.54 | | |
| 4.676 | 15483 | 15921 | 1.028 | 0.02 | | |
| 4.705 | 48979 | 42219 | 0.862 | 0.08 | | |
| 4.767 | 19241 | 15313 | 0.796 | 0.03 | | |
| 4.853 | 14712 | 14318 | 0.973 | 0.02 | | |
| 4.899 | 245661 | 230129 | 0.937 | 0.44 | | |
| 4.933 | 994286 | 910618 | 0.916 | 1.81 | | |
| 4.979 | 2371066 | 1856379 | 0.783 | 4.32 | | |
| 5.042 | 413458 | 342850 | 0.829 | 0.75 | | |
| 5.125 | 204825 | 166373 | 0.812 | 0.37 | | |
| 5.184 | 1393866 | 1221049 | 0.876 | 2.54 | | |
| 5.247 | 2614549 | 2353889 | 0.900 | 4.76 | 7 Aroclor 1254 | BA |
| 5.297 | 1241088 | 1053718 | 0.849 | 2.26 | | |
| 5.370 | 69211 | 63771 | 0.921 | 0.12 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.396 | 220325 | 189888 | 0.862 | 0.40 | |
| 5.449 | 1013847 | 913641 | 0.901 | 1.84 | |
| 5.493 | 2173195 | 1882833 | 0.866 | 3.96 | 7 Aroclor 1254 |
| 5.532 | 738078 | 639085 | 0.866 | 1.34 | |
| 5.565 | 286902 | 270171 | 0.942 | 0.52 | |
| 5.596 | 3861776 | 3372688 | 0.873 | 7.04 | 7 Aroclor 1254 |
| 5.662 | 50846 | 51116 | 1.005 | 0.09 | |
| 5.692 | 550798 | 460807 | 0.837 | 1.00 | |
| 5.761 | 377836 | 346807 | 0.918 | 0.68 | |
| 5.798 | 579412 | 369848 | 0.638 | 1.05 | |
| 5.827 | 353740 | 282902 | 0.800 | 0.64 | |
| 5.876 | 4118337 | 3012619 | 0.732 | 7.50 | |
| 5.971 | 393764 | 277732 | 0.705 | 0.71 | |
| 6.015 | 229046 | 139312 | 0.608 | 0.41 | |
| 6.080 | 358780 | 326574 | 0.910 | 0.65 | |
| 6.115 | 2448399 | 2028758 | 0.829 | 4.46 | 7 Aroclor 1254 |
| 6.142 | 2033287 | 1607258 | 0.790 | 3.70 | |
| 6.256 | 789148 | 639377 | 0.810 | 1.43 | |
| 6.315 | 327132 | 316806 | 0.968 | 0.59 | |
| 6.329 | 362225 | 302932 | 0.836 | 0.66 | |
| 6.386 | 3514486 | 2966961 | 0.844 | 6.40 | 7 Aroclor 1254 |
| 6.420 | 718816 | 609787 | 0.848 | 1.31 | |
| 6.461 | 400793 | 308622 | 0.770 | 0.73 | |
| 6.523 | 122606 | 60633 | 0.495 | 0.22 | |
| 6.572 | 23239 | 22706 | 0.977 | 0.04 | |
| 6.596 | 140664 | 134429 | 0.956 | 0.25 | |
| 6.624 | 1211758 | 922684 | 0.761 | 2.20 | |
| 6.692 | 195149 | 142227 | 0.729 | 0.35 | |
| 6.748 | 40047 | 30034 | 0.750 | 0.07 | |
| 6.806 | 241653 | 203276 | 0.841 | 0.44 | |
| 6.846 | 141780 | 127747 | 0.901 | 0.25 | |
| 6.889 | 701855 | 589038 | 0.839 | 1.27 | |
| 6.931 | 210314 | 128990 | 0.613 | 0.38 | |
| 7.029 | 64583 | 56107 | 0.869 | 0.11 | |
| 7.091 | 462405 | 417142 | 0.902 | 0.84 | |
| 7.160 | 21914 | 16712 | 0.763 | 0.03 | |
| 7.340 | 405589 | 352005 | 0.868 | 0.73 | |
| 7.370 | 100166 | 83077 | 0.829 | 0.18 | |
| 7.475 | 17505 | 14994 | 0.857 | 0.03 | |
| 7.530 | 30025 | 22507 | 0.750 | 0.05 | |
| 7.643 | 30854 | 19792 | 0.641 | 0.05 | |
| 7.778 | 13772 | 13256 | 0.963 | 0.02 | |
| 7.813 | 18587 | 17743 | 0.955 | 0.03 | |
| 7.838 | 17620 | 13509 | 0.767 | 0.03 | |
| 7.985 | 16013 | 17071 | 1.066 | 0.02 | |
| 8.362 | 55075 | 44062 | 0.800 | 0.10 | |
| 8.441 | 19743 | 12008 | 0.608 | 0.03 | |
| 8.658 | 6204635 | 5190066 | 0.836 | 11.72 | $ 12 Decachlorobiphenyl |
| 9.006 | 29653 | 17197 | 0.580 | 0.05 | |
| 9.530 | 23017 | 16038 | 0.697 | 0.04 | |
| | 54854583 | 46748386 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318075.D
Lab Smp Id: 1254-ICV  Client Smp ID: 1254-ICV
Inj Date : 03-MAY-2018 19:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 75  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5743332 | 0.05000 | 0.048 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 2614549 | 0.50000 | 0.46 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 2173195 | 0.50000 | 0.46 | 0.00- 20.00 | 83.12 | BA |
| 5.596 | 5.596 | 0.000 | 3861775 | 0.50000 | 0.45 | 0.00- 20.00 | 147.70 | BA |
| 6.115 | 6.113 | 0.002 | 2448399 | 0.50000 | 0.46 | 0.00- 20.00 | 93.65 | BA |
| 6.386 | 6.387 | -0.001 | 3514485 | 0.50000 | 0.48 | 0.00- 20.00 | 134.42 | BA |
| Average of Peak Amounts = | | | | | 0.46200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.658 | 8.657 | 0.001 | 6204635 | 0.05000 | 0.046 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318075.D



Date : 03-MAY-2018 19:47

Client ID: 1254-ICV

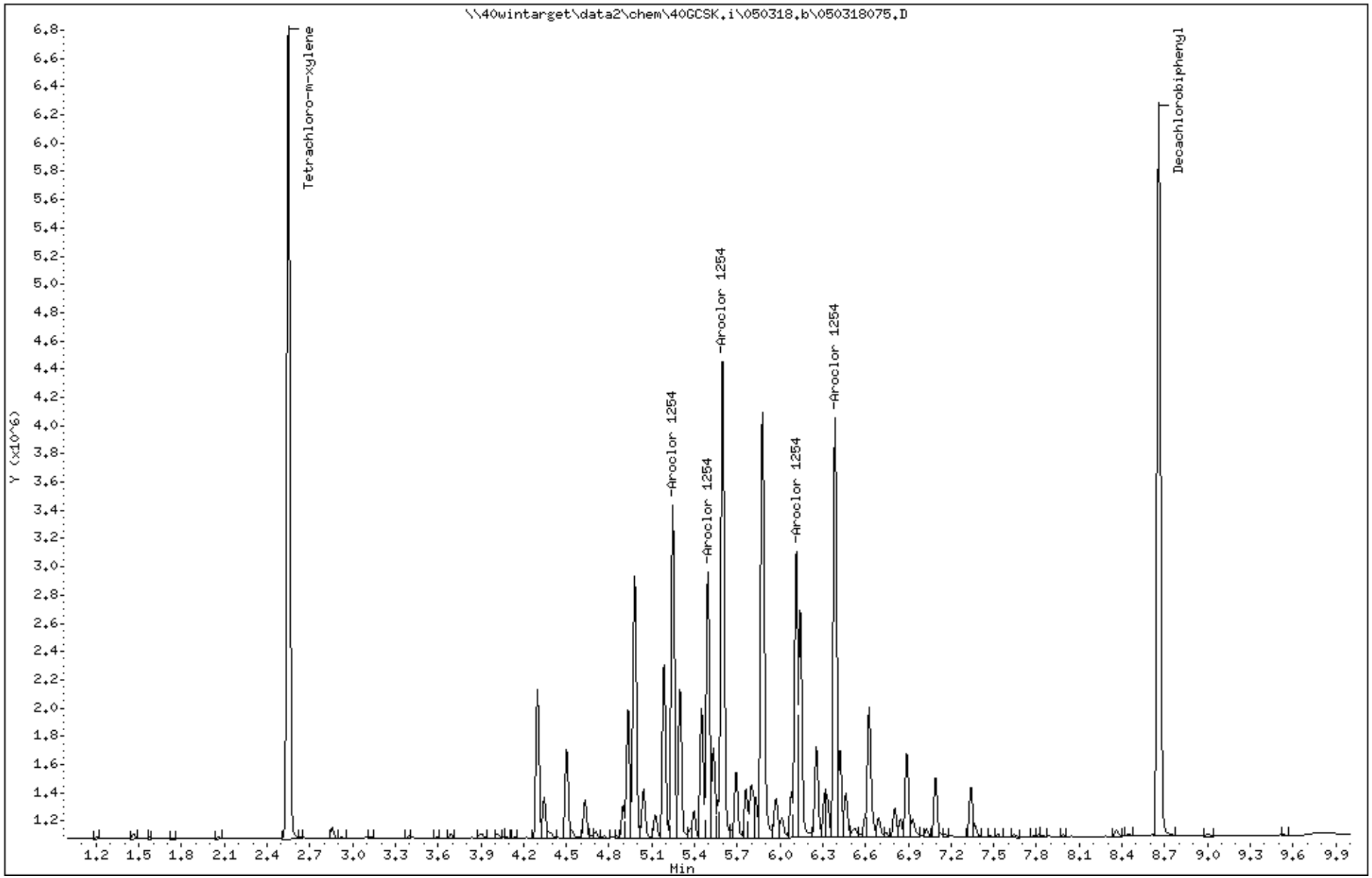
Instrument: 40GCSK.i

Sample Info: 1254-ICV, 185564:1

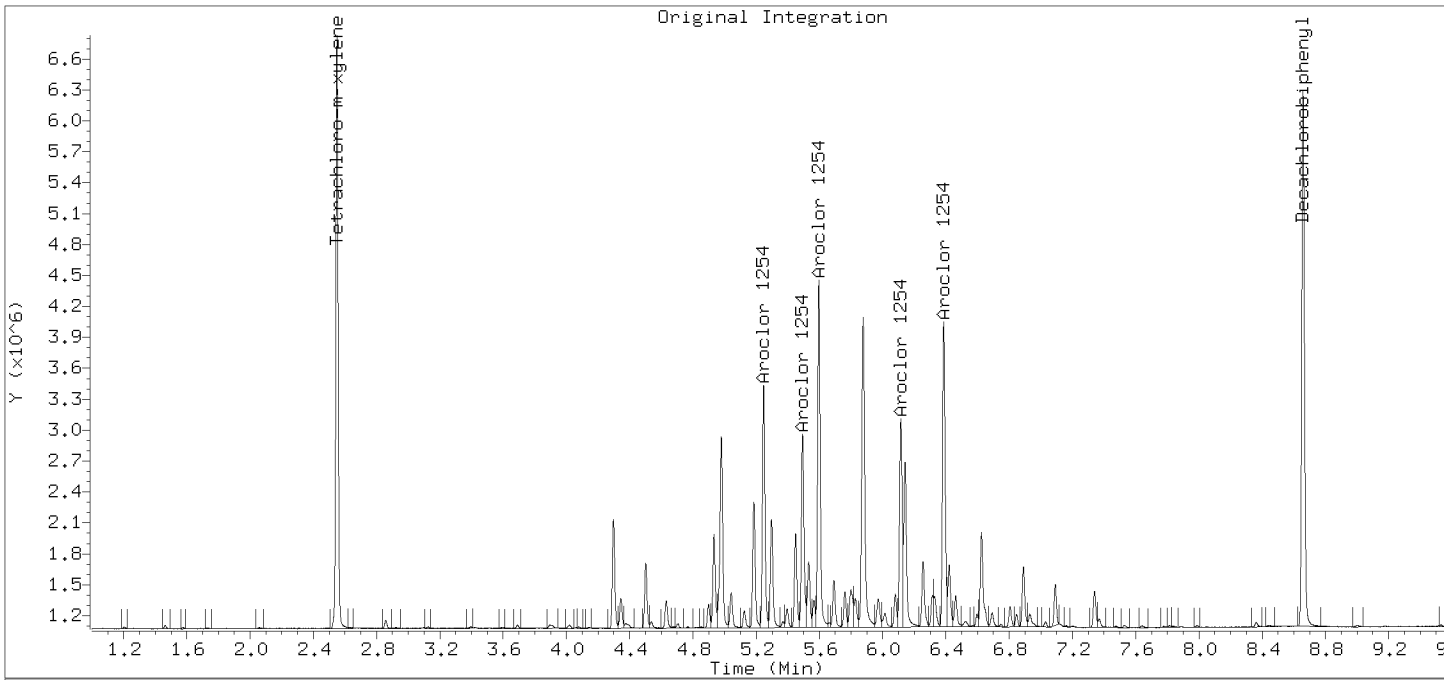
Operator: BLM

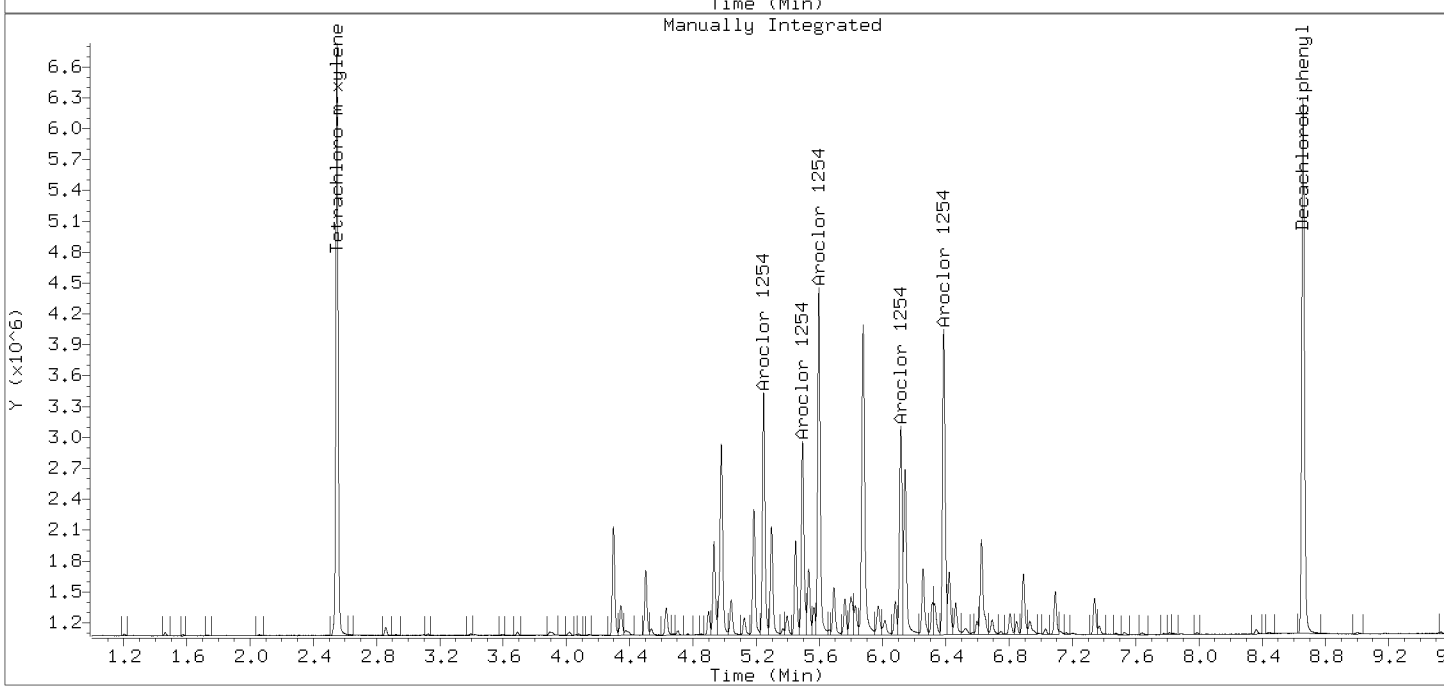
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318075.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 03-MAY-2018 19:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-ICV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 2602673 | 2614549 | BA |
| Aroclor 1254 | 2602673 | 2614549 | BA |
| Aroclor 1254 | 2602673 | 2614549 | BA |
| Aroclor 1254 | 2602673 | 2614549 | BA |
| Aroclor 1254 | 2602673 | 2614549 | BA |
| Tetrachloro-m-xylene | 5743332 | 5743332 | |
| Decachlorobiphenyl | 6204635 | 6204635 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 03-MAY-2018 20:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 77 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.463 | 31732 | 32104 | 1.012 | 0.03 | | |
| 1.575 | 12413 | 14317 | 1.153 | 0.01 | | |
| 1.853 | 14997 | 14556 | 0.971 | 0.01 | | |
| 2.470 | 127923 | 104735 | 0.819 | 0.14 | | |
| 2.549 | 5601002 | 5545799 | 0.990 | 6.13 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 192174 | 146010 | 0.760 | 0.21 | | |
| 2.861 | 283324 | 258623 | 0.913 | 0.31 | | |
| 2.923 | 1097809 | 978941 | 0.892 | 1.20 | | |
| 3.129 | 159774 | 152913 | 0.957 | 0.17 | | |
| 3.354 | 16305 | 16548 | 1.015 | 0.01 | | |
| 3.395 | 1563197 | 1443063 | 0.923 | 1.71 | 5 Aroclor 1016 | BA |
| 3.423 | 968278 | 863609 | 0.892 | 1.06 | | |
| 3.514 | 262759 | 220916 | 0.841 | 0.28 | | |
| 3.594 | 1584255 | 1128444 | 0.712 | 1.73 | 5 Aroclor 1016 | BA |
| 3.691 | 40233 | 37202 | 0.925 | 0.04 | | |
| 3.727 | 25623 | 16299 | 0.636 | 0.02 | | |
| 3.777 | 41793 | 40660 | 0.973 | 0.04 | | |
| 3.812 | 381201 | 374925 | 0.984 | 0.41 | | |
| 3.837 | 278916 | 240594 | 0.863 | 0.30 | | |
| 3.909 | 4734182 | 2608452 | 0.551 | 5.18 | 5 Aroclor 1016 | BA |
| 4.011 | 2021461 | 1559795 | 0.772 | 2.21 | 5 Aroclor 1016 | BA |
| 4.078 | 1341168 | 1176874 | 0.877 | 1.46 | 5 Aroclor 1016 | BA |
| 4.142 | 422007 | 362148 | 0.858 | 0.46 | | |
| 4.221 | 170362 | 135373 | 0.795 | 0.18 | | |
| 4.298 | 1138812 | 1050073 | 0.922 | 1.24 | | |
| 4.344 | 1065052 | 992902 | 0.932 | 1.16 | | |
| 4.375 | 443003 | 462500 | 1.044 | 0.48 | | |
| 4.394 | 596411 | 529680 | 0.888 | 0.65 | | |
| 4.455 | 31283 | 23372 | 0.747 | 0.03 | | |
| 4.501 | 1403104 | 1297114 | 0.924 | 1.53 | | |
| 4.537 | 996131 | 783795 | 0.787 | 1.09 | | |
| 4.631 | 1660717 | 1438732 | 0.866 | 1.81 | | |
| 4.704 | 321139 | 273627 | 0.852 | 0.35 | | |
| 4.765 | 29396 | 16952 | 0.577 | 0.03 | | |
| 4.814 | 38475 | 28291 | 0.735 | 0.04 | | |
| 4.856 | 28748 | 24693 | 0.859 | 0.03 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.899 | 158670 | 145094 | 0.914 | 0.17 | |
| 4.934 | 254032 | 226367 | 0.891 | 0.27 | |
| 4.980 | 1279246 | 1025964 | 0.802 | 1.40 | |
| 5.042 | 64414 | 42152 | 0.654 | 0.07 | |
| 5.125 | 83932 | 68782 | 0.819 | 0.09 | |
| 5.185 | 254583 | 222475 | 0.874 | 0.27 | |
| 5.248 | 1263180 | 1119526 | 0.886 | 1.38 | |
| 5.296 | 49757 | 34450 | 0.692 | 0.05 | |
| 5.393 | 17166 | 15182 | 0.884 | 0.01 | |
| 5.450 | 56877 | 51756 | 0.910 | 0.06 | |
| 5.493 | 289714 | 258801 | 0.893 | 0.31 | |
| 5.565 | 540051 | 521461 | 0.966 | 0.59 | |
| 5.596 | 808210 | 717645 | 0.888 | 0.88 | |
| 5.760 | 1468800 | 1377582 | 0.938 | 1.60 | |
| 5.795 | 1012001 | 562843 | 0.556 | 1.10 | |
| 5.872 | 3460428 | 2975427 | 0.860 | 3.79 | |
| 5.970 | 217696 | 191558 | 0.880 | 0.23 | |
| 6.015 | 103462 | 86979 | 0.841 | 0.11 | |
| 6.078 | 590852 | 550742 | 0.932 | 0.64 | |
| 6.117 | 1243922 | 1230724 | 0.989 | 1.36 | |
| 6.141 | 4060031 | 3324709 | 0.819 | 4.44 | |
| 6.255 | 2619668 | 1601934 | 0.612 | 2.86 | |
| 6.344 | 536818 | 335541 | 0.625 | 0.58 | |
| 6.387 | 4706693 | 3823937 | 0.812 | 5.15 | 8 Aroclor 1260 |
| 6.420 | 675088 | 590940 | 0.875 | 0.73 | |
| 6.461 | 161877 | 119422 | 0.738 | 0.17 | |
| 6.518 | 540471 | 460445 | 0.852 | 0.59 | |
| 6.572 | 101691 | 138840 | 1.365 | 0.11 | |
| 6.596 | 2517779 | 2204060 | 0.875 | 2.75 | |
| 6.624 | 341233 | 405281 | 1.188 | 0.37 | |
| 6.647 | 1539912 | 1335149 | 0.867 | 1.68 | |
| 6.691 | 141878 | 112209 | 0.791 | 0.15 | |
| 6.747 | 482763 | 451547 | 0.935 | 0.52 | |
| 6.805 | 2698462 | 2467706 | 0.914 | 2.95 | |
| 6.846 | 1529762 | 1355734 | 0.886 | 1.67 | |
| 6.890 | 1160456 | 1006750 | 0.868 | 1.27 | |
| 6.925 | 229471 | 197257 | 0.860 | 0.25 | |
| 6.955 | 107372 | 92385 | 0.860 | 0.11 | |
| 6.998 | 158627 | 147088 | 0.927 | 0.17 | |
| 7.029 | 531751 | 492029 | 0.925 | 0.58 | |
| 7.091 | 5964965 | 5342618 | 0.896 | 6.53 | 8 Aroclor 1260 |
| 7.121 | 435705 | 400911 | 0.920 | 0.47 | |
| 7.159 | 186803 | 147073 | 0.787 | 0.20 | |
| 7.208 | 270123 | 211363 | 0.782 | 0.29 | |
| 7.269 | 10418 | 11174 | 1.073 | 0.01 | |
| 7.338 | 2881495 | 2542057 | 0.882 | 3.15 | 8 Aroclor 1260 |
| 7.368 | 811843 | 680501 | 0.838 | 0.88 | |
| 7.476 | 1469357 | 1219599 | 0.830 | 1.60 | |
| 7.529 | 1704690 | 1465970 | 0.860 | 1.86 | 8 Aroclor 1260 |
| 7.639 | 122417 | 97289 | 0.795 | 0.13 | |
| 7.778 | 720446 | 672721 | 0.934 | 0.78 | |
| 7.815 | 208305 | 130050 | 0.624 | 0.22 | |
| 7.886 | 84000 | 63617 | 0.757 | 0.09 | |
| 7.987 | 1687251 | 1426950 | 0.846 | 1.84 | 8 Aroclor 1260 |
| 8.051 | 132265 | 96124 | 0.727 | 0.14 | |
| 8.360 | 594977 | 496368 | 0.834 | 0.65 | |
| 8.438 | 68124 | 55769 | 0.819 | 0.07 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.615 | 10805 | 11359 | 1.051 | 0.01 | |
| 8.657 | 6250490 | 5391309 | 0.863 | 7.33 | $ 12 Decachlorobiphenyl |
| 8.885 | 9999 | 7160 | 0.716 | 0.01 | |
| 9.001 | 200481 | 114375 | 0.571 | 0.21 | |
| 9.524 | 285878 | 145641 | 0.509 | 0.31 | |
| | 91294791 | 77213102 | | 100.000 | |

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Lab Smp Id: 1660-ICV  Client Smp ID: 1660-ICV
Inj Date : 03-MAY-2018 20:03
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 77  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5601001 | 0.05000 | 0.046 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.394 | 3.395 | -0.001 | 1563196 | 0.50000 | 0.51 | 0.00- 20.00 | 100.00(M) | BA |
| 3.594 | 3.592 | 0.002 | 1584254 | 0.50000 | 0.50 | 0.00- 20.00 | 101.35 | BA |
| 3.908 | 3.909 | -0.001 | 4734182 | 0.50000 | 0.50 | 0.00- 20.00 | 302.85 | BA |
| 4.011 | 4.011 | 0.000 | 2021460 | 0.50000 | 0.50 | 0.00- 20.00 | 129.32 | BA |
| 4.077 | 4.078 | -0.001 | 1341167 | 0.50000 | 0.50 | 0.00- 20.00 | 85.80 | BA |
| Average of Peak Amounts = | | | | | 0.50200 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 4706692 | 0.50000 | 0.47 | 0.00- 20.00 | 100.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 5964964 | 0.50000 | 0.51 | 0.00- 20.00 | 126.73 | BA |
| 7.337 | 7.338 | -0.001 | 2881495 | 0.50000 | 0.51 | 0.00- 20.00 | 61.22 | BA |
| 7.528 | 7.529 | -0.001 | 1704690 | 0.50000 | 0.50 | 0.00- 20.00 | 36.22 | BA |
| 7.986 | 7.987 | -0.001 | 1687251 | 0.50000 | 0.53 | 0.00- 20.00 | 35.85 | BA |
| Average of Peak Amounts = | | | | | 0.50400 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 6250490 | 0.05000 | 0.047 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D



Date : 03-MAY-2018 20:03

Client ID: 1660-ICV

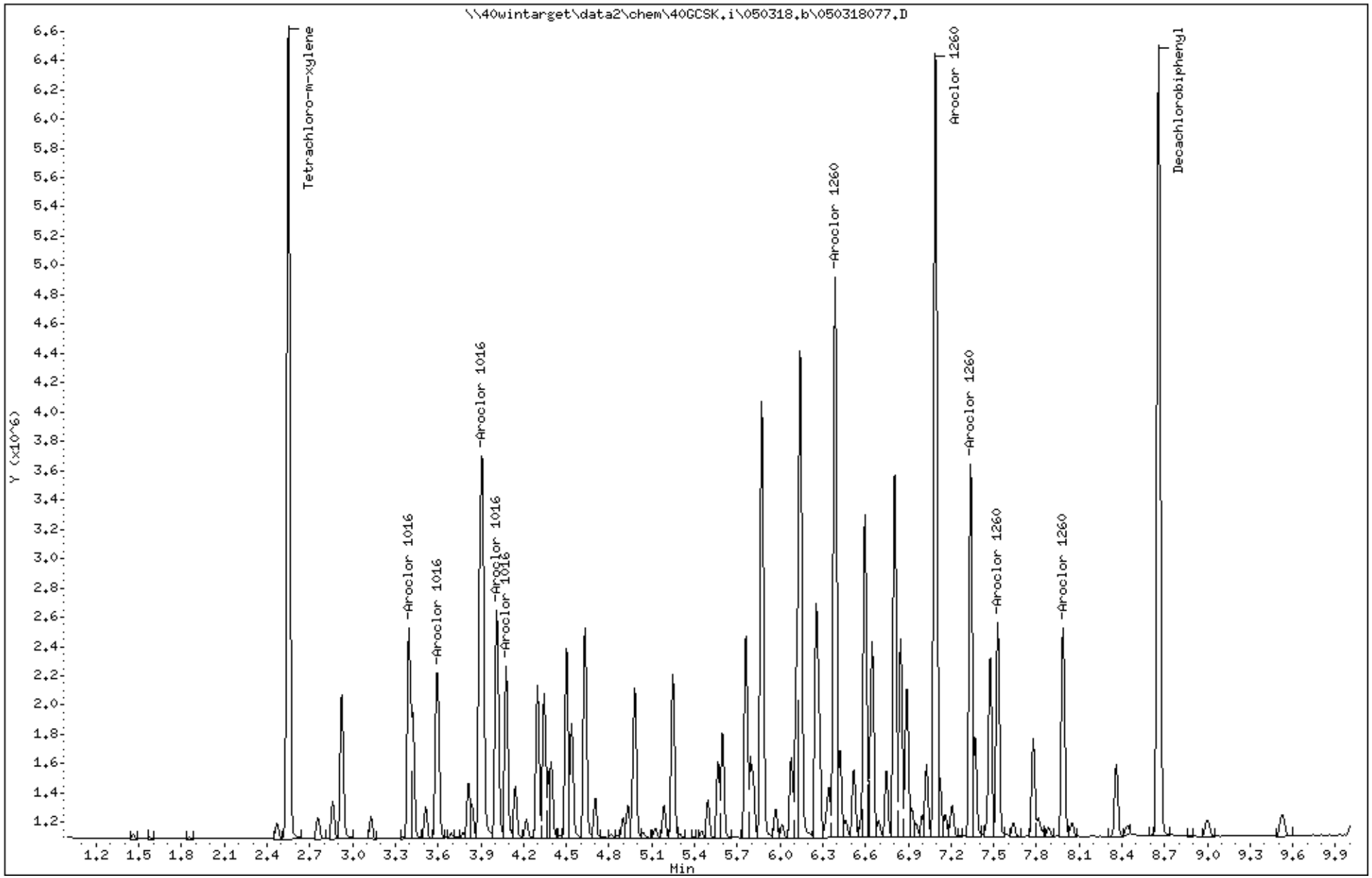
Instrument: 40GCSK.i

Sample Info: 1660-ICV, 185565:1

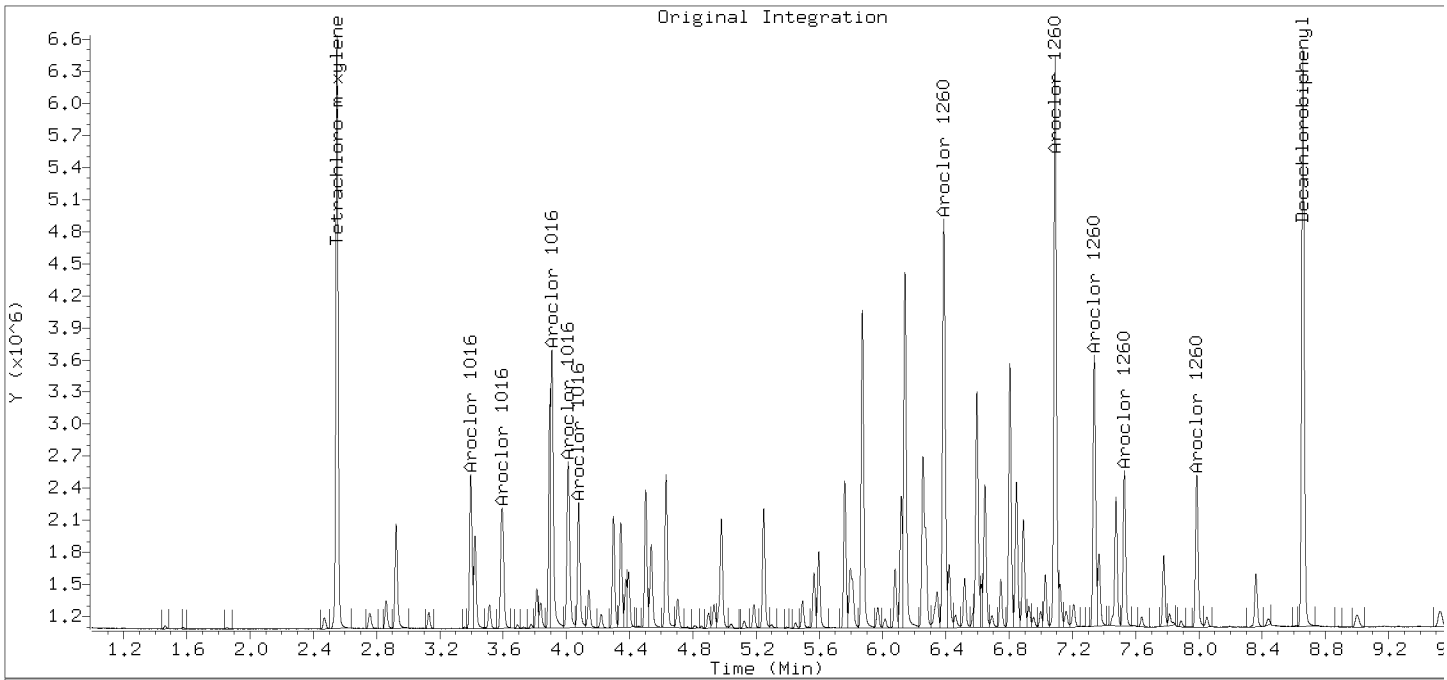
Operator: BLM

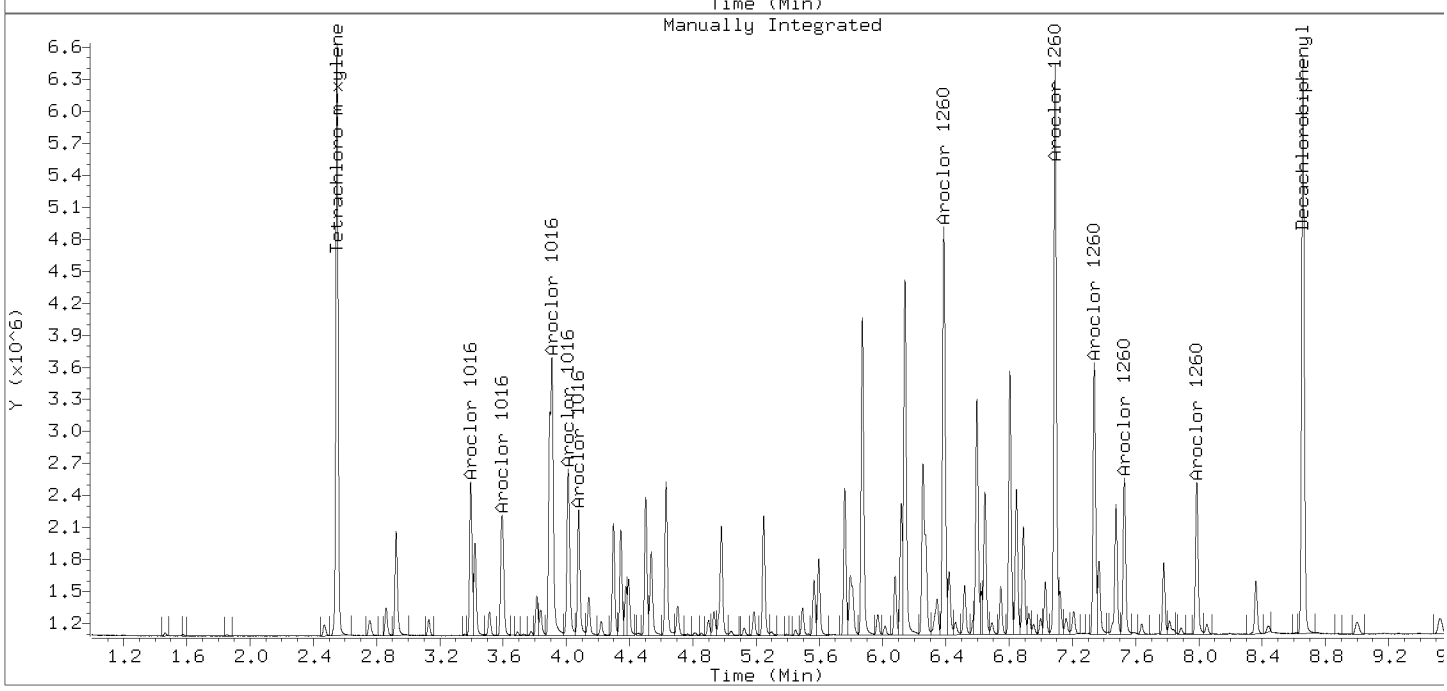
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318077.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 20:03 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-ICV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1555270 | 1563196 | BA |
| Aroclor 1016 | 1555270 | 1563196 | BA |
| Aroclor 1016 | 1555270 | 1563196 | BA |
| Aroclor 1016 | 1555270 | 1563196 | BA |
| Aroclor 1016 | 1555270 | 1563196 | BA |
| Aroclor 1260 | 4702751 | 4706692 | BA |
| Aroclor 1260 | 4702751 | 4706692 | BA |
| Aroclor 1260 | 4702751 | 4706692 | BA |
| Aroclor 1260 | 4702751 | 4706692 | BA |
| Aroclor 1260 | 4702751 | 4706692 | BA |
| Tetrachloro-m-xylene | 5601001 | 5601001 | |
| Decachlorobiphenyl | 6250490 | 6250490 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Lab Smp Id: 1248-CCV  Client Smp ID: 1248-CCV
Inj Date : 07-MAY-2018 14:06
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 4  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 18025 | 20517 | 1.138 | 0.03 | | |
| 1.464 | 36312 | 35261 | 0.971 | 0.07 | | |
| 1.576 | 16067 | 14067 | 0.876 | 0.03 | | |
| 1.728 | 15032 | 14638 | 0.974 | 0.03 | | |
| 2.469 | 18788 | 16681 | 0.888 | 0.04 | | |
| 2.550 | 5622579 | 5719318 | 1.017 | 12.35 | $ 2 Tetrachloro-m-xylene | |
| 2.756 | 26052 | 22703 | 0.871 | 0.05 | | |
| 2.860 | 104221 | 98498 | 0.945 | 0.22 | | |
| 2.924 | 176687 | 159410 | 0.902 | 0.38 | | |
| 3.129 | 57678 | 52480 | 0.910 | 0.12 | | |
| 3.395 | 692892 | 674716 | 0.974 | 1.52 | | |
| 3.422 | 307666 | 281559 | 0.915 | 0.67 | | |
| 3.514 | 63248 | 57084 | 0.903 | 0.13 | | |
| 3.595 | 580474 | 414667 | 0.714 | 1.27 | | |
| 3.692 | 35734 | 36146 | 1.012 | 0.07 | | |
| 3.813 | 125217 | 122125 | 0.975 | 0.27 | | |
| 3.838 | 61641 | 54378 | 0.882 | 0.13 | | |
| 3.896 | 1059325 | 1173145 | 1.107 | 2.32 | | |
| 3.908 | 1327438 | 1232841 | 0.929 | 2.91 | | |
| 4.013 | 904026 | 684919 | 0.758 | 1.98 | | |
| 4.078 | 594667 | 529628 | 0.891 | 1.30 | | |
| 4.143 | 352876 | 318434 | 0.902 | 0.77 | | |
| 4.221 | 143482 | 129910 | 0.905 | 0.31 | | |
| 4.298 | 1492299 | 1381489 | 0.926 | 3.27 | | |
| 4.344 | 1204115 | 1133497 | 0.941 | 2.64 | 6 Aroclor 1248 | BA |
| 4.377 | 502322 | 507570 | 1.010 | 1.10 | | |
| 4.393 | 544613 | 507839 | 0.932 | 1.19 | | |
| 4.502 | 1805183 | 1672925 | 0.927 | 3.96 | | |
| 4.537 | 942770 | 784946 | 0.833 | 2.07 | | |
| 4.631 | 2089783 | 1866851 | 0.893 | 4.59 | 6 Aroclor 1248 | BA |
| 4.674 | 41892 | 38607 | 0.922 | 0.09 | | |
| 4.703 | 489873 | 438253 | 0.895 | 1.07 | | |
| 4.766 | 31194 | 22946 | 0.736 | 0.06 | | |
| 4.811 | 62683 | 49516 | 0.790 | 0.13 | | |
| 4.853 | 108814 | 104474 | 0.960 | 0.23 | | |
| 4.898 | 1042969 | 986180 | 0.946 | 2.29 | 6 Aroclor 1248 | BA |
| 4.933 | 2051926 | 1884186 | 0.918 | 4.50 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.964 | 2679262 | 1711604 | 0.639 | 5.88 | 6 Aroclor 1248 |
| 5.042 | 334191 | 254296 | 0.761 | 0.73 | |
| 5.124 | 1887015 | 1693526 | 0.897 | 4.14 | 6 Aroclor 1248 |
| 5.185 | 685799 | 544141 | 0.793 | 1.50 | |
| 5.246 | 808615 | 715140 | 0.884 | 1.77 | |
| 5.298 | 596144 | 524839 | 0.880 | 1.31 | |
| 5.372 | 43247 | 38254 | 0.885 | 0.09 | |
| 5.395 | 126737 | 106546 | 0.841 | 0.27 | |
| 5.449 | 512402 | 442642 | 0.864 | 1.12 | |
| 5.493 | 846309 | 725437 | 0.857 | 1.85 | |
| 5.532 | 514853 | 468494 | 0.910 | 1.13 | |
| 5.597 | 1429703 | 1158625 | 0.810 | 3.14 | |
| 5.692 | 408488 | 353871 | 0.866 | 0.89 | |
| 5.763 | 56956 | 46267 | 0.812 | 0.12 | |
| 5.802 | 84352 | 66989 | 0.794 | 0.18 | |
| 5.827 | 106505 | 90735 | 0.852 | 0.23 | |
| 5.850 | 29547 | 41235 | 1.396 | 0.06 | |
| 5.878 | 987600 | 772849 | 0.783 | 2.17 | |
| 5.975 | 132587 | 80158 | 0.605 | 0.29 | |
| 6.080 | 29922 | 30496 | 1.019 | 0.06 | |
| 6.112 | 822023 | 700249 | 0.852 | 1.80 | |
| 6.141 | 181003 | 146199 | 0.808 | 0.39 | |
| 6.256 | 91655 | 57230 | 0.624 | 0.20 | |
| 6.312 | 57439 | 29963 | 0.522 | 0.12 | |
| 6.387 | 250098 | 212370 | 0.849 | 0.54 | |
| 6.419 | 47176 | 39050 | 0.828 | 0.10 | |
| 6.460 | 38574 | 30873 | 0.800 | 0.08 | |
| 6.514 | 30233 | 18905 | 0.625 | 0.06 | |
| 6.596 | 40365 | 40280 | 0.998 | 0.08 | |
| 6.625 | 95728 | 68373 | 0.714 | 0.21 | |
| 6.690 | 16529 | 10503 | 0.635 | 0.03 | |
| 6.805 | 41162 | 36537 | 0.888 | 0.09 | |
| 6.844 | 19377 | 18710 | 0.966 | 0.04 | |
| 6.890 | 45332 | 40333 | 0.890 | 0.09 | |
| 6.929 | 21948 | 14191 | 0.647 | 0.04 | |
| 7.090 | 79315 | 69406 | 0.875 | 0.17 | |
| 7.201 | 37960 | 20070 | 0.529 | 0.08 | |
| 7.337 | 25828 | 25431 | 0.985 | 0.05 | |
| 7.475 | 32860 | 29096 | 0.885 | 0.07 | |
| 7.529 | 41060 | 35162 | 0.856 | 0.09 | |
| 7.774 | 14872 | 12813 | 0.862 | 0.03 | |
| 7.813 | 22217 | 21943 | 0.988 | 0.04 | |
| 7.838 | 38173 | 25711 | 0.674 | 0.08 | |
| 7.889 | 22059 | 14037 | 0.636 | 0.04 | |
| 7.987 | 38710 | 26977 | 0.697 | 0.08 | |
| 8.041 | 13914 | 7485 | 0.538 | 0.03 | |
| 8.361 | 63553 | 54937 | 0.864 | 0.13 | |
| 8.438 | 44388 | 30339 | 0.683 | 0.09 | |
| 8.656 | 5989234 | 5214841 | 0.871 | 13.66 | $ 12 Decachlorobiphenyl |
| 8.997 | 78055 | 44570 | 0.571 | 0.17 | |
| 9.170 | 10757 | 9756 | 0.907 | 0.02 | |
| 9.525 | 98719 | 59680 | 0.605 | 0.21 | |
| | 45501116 | 40274568 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Lab Smp Id: 1248-CCV  Client Smp ID: 1248-CCV
Inj Date : 07-MAY-2018 14:06
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 4  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5622579 | 0.05000 | 0.047 | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1204114 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 2089783 | 0.50000 | 0.49 | 0.00- 20.00 | 173.55 | BA |
| 4.897 | 4.898 | -0.001 | 1042968 | 0.50000 | 0.51 | 0.00- 20.00 | 86.62 | BA |
| 4.964 | 4.963 | 0.001 | 2679262 | 0.50000 | 0.49 | 0.00- 20.00 | 222.51 | BA |
| 5.123 | 5.123 | 0.000 | 1887014 | 0.50000 | 0.50 | 0.00- 20.00 | 156.71 | BA |
| Average of Peak Amounts = | | | | | 0.49800 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 5989233 | 0.05000 | 0.045 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

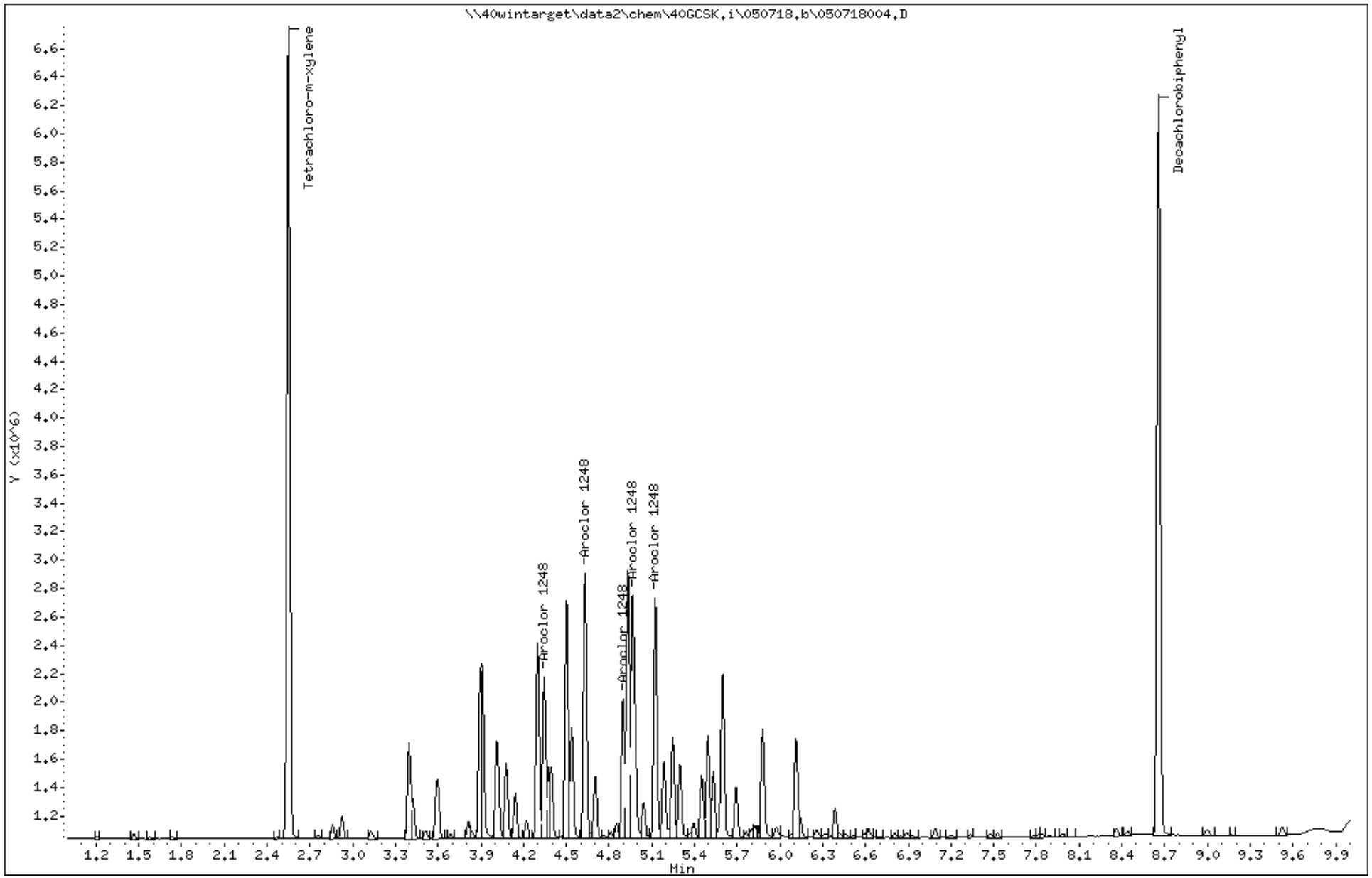
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Date : 07-MAY-2018 14:06
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

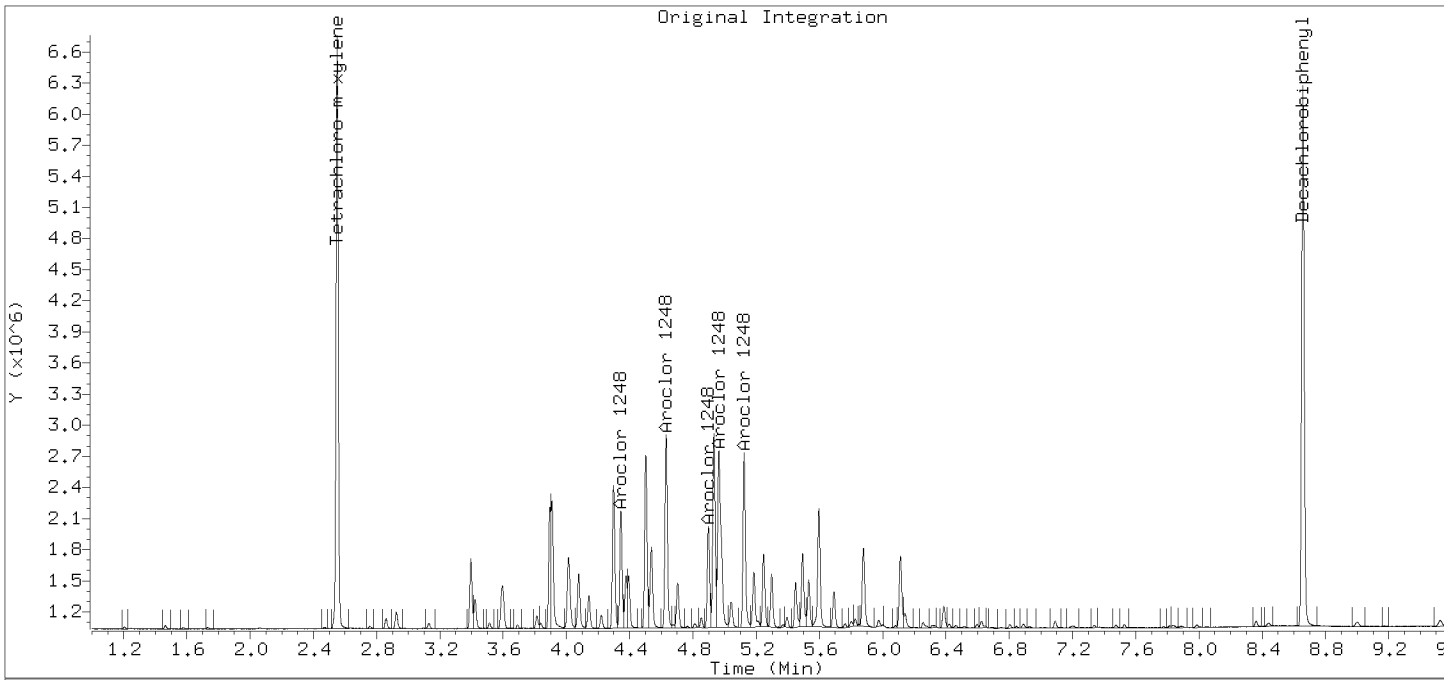
Operator: BLM

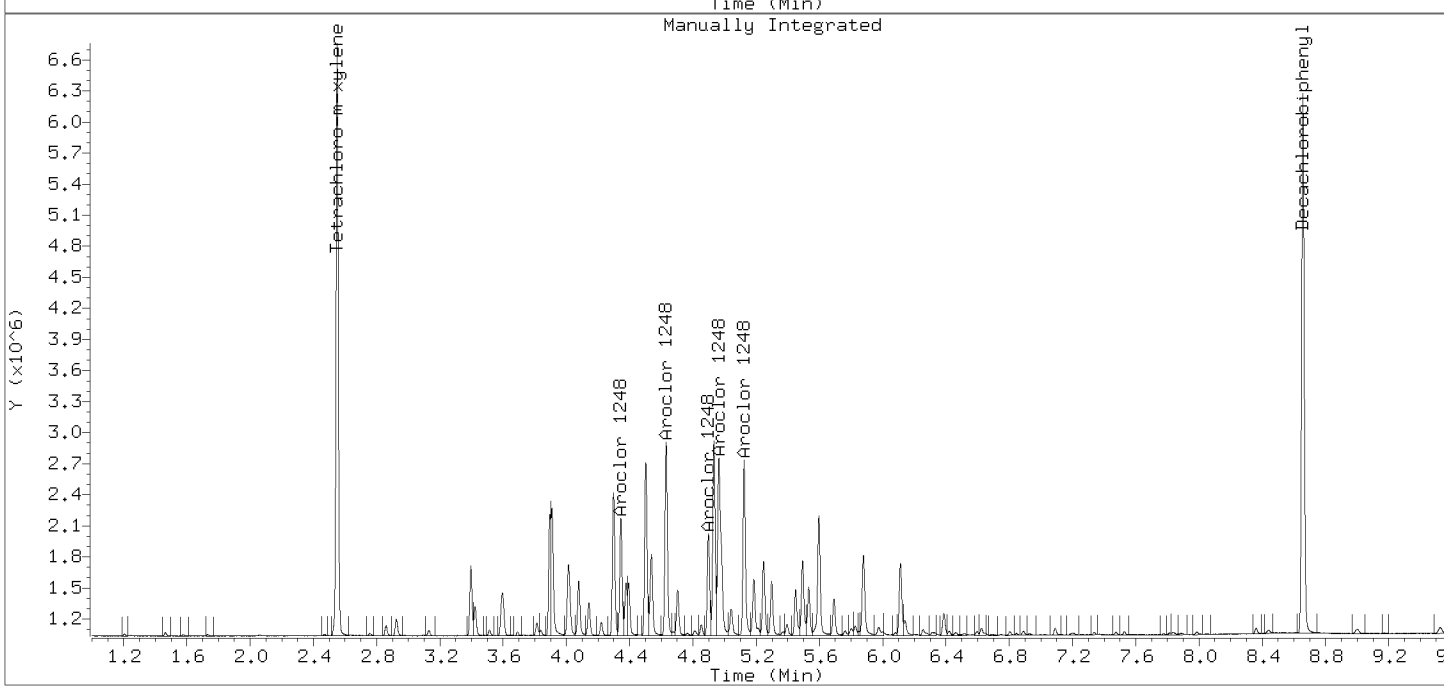
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 07-MAY-2018 14:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 1190249 | 1204114 | BA |
| Aroclor 1248 | 1190249 | 1204114 | BA |
| Aroclor 1248 | 1190249 | 1204114 | BA |
| Aroclor 1248 | 1190249 | 1204114 | BA |
| Aroclor 1248 | 1190249 | 1204114 | BA |
| Tetrachloro-m-xylene | 5622579 | 5622579 | |
| Decachlorobiphenyl | 5989233 | 5989233 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718016.D
Lab Smp Id: 1254-CCV  Client Smp ID: 1254-CCV
Inj Date : 07-MAY-2018 17:17
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 16  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.202 | 29937 | 26047 | 0.870 | 0.05 | | |
| 1.464 | 36798 | 33511 | 0.911 | 0.06 | | |
| 1.577 | 15692 | 15383 | 0.980 | 0.02 | | |
| 1.732 | 20532 | 18907 | 0.921 | 0.03 | | |
| 2.550 | 5730654 | 5751322 | 1.004 | 10.24 | $ 2 Tetrachloro-m-xylene | |
| 2.859 | 83797 | 80307 | 0.958 | 0.14 | | |
| 2.922 | 21299 | 16825 | 0.790 | 0.03 | | |
| 3.096 | 13080 | 10313 | 0.788 | 0.02 | | |
| 3.128 | 17666 | 16082 | 0.910 | 0.03 | | |
| 3.396 | 33376 | 30644 | 0.918 | 0.05 | | |
| 3.423 | 19991 | 17357 | 0.868 | 0.03 | | |
| 3.594 | 27151 | 23074 | 0.850 | 0.04 | | |
| 3.692 | 36871 | 35072 | 0.951 | 0.06 | | |
| 3.899 | 58302 | 39530 | 0.678 | 0.10 | | |
| 4.018 | 54364 | 41413 | 0.762 | 0.09 | | |
| 4.074 | 32381 | 21633 | 0.668 | 0.05 | | |
| 4.141 | 26154 | 20623 | 0.789 | 0.04 | | |
| 4.298 | 1242889 | 1166469 | 0.939 | 2.22 | | |
| 4.345 | 335913 | 321360 | 0.957 | 0.60 | | |
| 4.377 | 53270 | 42676 | 0.801 | 0.09 | | |
| 4.502 | 761099 | 715606 | 0.940 | 1.36 | | |
| 4.539 | 75900 | 68716 | 0.905 | 0.13 | | |
| 4.631 | 342092 | 309108 | 0.904 | 0.61 | | |
| 4.678 | 17228 | 16244 | 0.943 | 0.03 | | |
| 4.702 | 59208 | 54586 | 0.922 | 0.10 | | |
| 4.764 | 13054 | 14094 | 1.080 | 0.02 | | |
| 4.855 | 17027 | 16488 | 0.968 | 0.03 | | |
| 4.898 | 282968 | 275140 | 0.972 | 0.50 | | |
| 4.933 | 1154411 | 1046895 | 0.907 | 2.06 | | |
| 4.980 | 2480419 | 1947142 | 0.785 | 4.43 | | |
| 5.043 | 410146 | 361989 | 0.883 | 0.73 | | |
| 5.124 | 243356 | 211655 | 0.870 | 0.43 | | |
| 5.186 | 1449877 | 1277704 | 0.881 | 2.59 | | |
| 5.247 | 2703634 | 2450602 | 0.906 | 4.83 | 7 Aroclor 1254 | BA |
| 5.297 | 1268011 | 1098076 | 0.866 | 2.26 | | |
| 5.369 | 66116 | 64462 | 0.975 | 0.11 | | |
| 5.396 | 225050 | 205317 | 0.912 | 0.40 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.448 | 1079971 | 979924 | 0.907 | 1.93 | |
| 5.493 | 2257895 | 1990254 | 0.881 | 4.03 | 7 Aroclor 1254 |
| 5.532 | 778537 | 709939 | 0.912 | 1.39 | |
| 5.565 | 276664 | 264575 | 0.956 | 0.49 | |
| 5.596 | 4068146 | 3725328 | 0.916 | 7.27 | 7 Aroclor 1254 |
| 5.662 | 37644 | 39914 | 1.060 | 0.06 | |
| 5.691 | 580599 | 515742 | 0.888 | 1.03 | |
| 5.761 | 369782 | 341425 | 0.923 | 0.66 | |
| 5.798 | 558583 | 357079 | 0.639 | 0.99 | |
| 5.827 | 346600 | 288908 | 0.834 | 0.61 | |
| 5.876 | 4223765 | 3224063 | 0.763 | 7.55 | |
| 5.971 | 373034 | 287020 | 0.769 | 0.66 | |
| 6.015 | 204384 | 129736 | 0.635 | 0.36 | |
| 6.079 | 343081 | 319462 | 0.931 | 0.61 | |
| 6.113 | 2646352 | 2159505 | 0.816 | 4.73 | 7 Aroclor 1254 |
| 6.140 | 1932981 | 1615879 | 0.836 | 3.45 | |
| 6.255 | 768694 | 628246 | 0.817 | 1.37 | |
| 6.313 | 309295 | 316220 | 1.022 | 0.55 | |
| 6.328 | 345653 | 296165 | 0.857 | 0.61 | |
| 6.385 | 3523477 | 3046861 | 0.865 | 6.30 | 7 Aroclor 1254 |
| 6.420 | 641513 | 567991 | 0.885 | 1.14 | |
| 6.461 | 371932 | 294040 | 0.791 | 0.66 | |
| 6.522 | 106102 | 55482 | 0.523 | 0.18 | |
| 6.568 | 18725 | 21011 | 1.122 | 0.03 | |
| 6.596 | 134491 | 134311 | 0.999 | 0.24 | |
| 6.624 | 1206293 | 946108 | 0.784 | 2.15 | |
| 6.691 | 178569 | 144757 | 0.811 | 0.31 | |
| 6.745 | 37479 | 28258 | 0.754 | 0.06 | |
| 6.805 | 232025 | 199428 | 0.860 | 0.41 | |
| 6.846 | 139084 | 127014 | 0.913 | 0.24 | |
| 6.888 | 683641 | 608902 | 0.891 | 1.22 | |
| 6.928 | 197956 | 128487 | 0.649 | 0.35 | |
| 7.028 | 68644 | 54894 | 0.800 | 0.12 | |
| 7.090 | 474009 | 408077 | 0.861 | 0.84 | |
| 7.162 | 19254 | 17566 | 0.912 | 0.03 | |
| 7.337 | 381908 | 354572 | 0.928 | 0.68 | |
| 7.367 | 80745 | 72800 | 0.902 | 0.14 | |
| 7.472 | 18692 | 14903 | 0.797 | 0.03 | |
| 7.528 | 30296 | 23854 | 0.787 | 0.05 | |
| 7.638 | 22285 | 18254 | 0.819 | 0.03 | |
| 7.777 | 12924 | 13786 | 1.067 | 0.02 | |
| 7.816 | 14988 | 16157 | 1.078 | 0.02 | |
| 7.836 | 12619 | 11890 | 0.942 | 0.02 | |
| 7.988 | 29162 | 21043 | 0.722 | 0.05 | |
| 8.361 | 53830 | 49522 | 0.920 | 0.09 | |
| 8.437 | 26041 | 19323 | 0.742 | 0.04 | |
| 8.657 | 6141763 | 5421837 | 0.883 | 11.43 | $ 12 Decachlorobiphenyl |
| 9.004 | 48036 | 30646 | 0.638 | 0.08 | |
| 9.526 | 48731 | 34589 | 0.710 | 0.08 | |
| | 55916586 | 48938119 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718016.D
Lab Smp Id: 1254-CCV  Client Smp ID: 1254-CCV
Inj Date : 07-MAY-2018 17:17
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 16  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5730653 | 0.05000 | 0.048 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.247 | 5.248 | -0.001 | 2703633 | 0.50000 | 0.48 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 2257895 | 0.50000 | 0.48 | 0.00- 20.00 | 83.51 | BA |
| 5.595 | 5.596 | -0.001 | 4068145 | 0.50000 | 0.48 | 0.00- 20.00 | 150.47 | BA |
| 6.113 | 6.113 | 0.000 | 2646351 | 0.50000 | 0.50 | 0.00- 20.00 | 97.88 | BA |
| 6.385 | 6.387 | -0.002 | 3523477 | 0.50000 | 0.48 | 0.00- 20.00 | 130.32 | BA |
| Average of Peak Amounts = | | | | | 0.48400 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6141762 | 0.05000 | 0.046 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

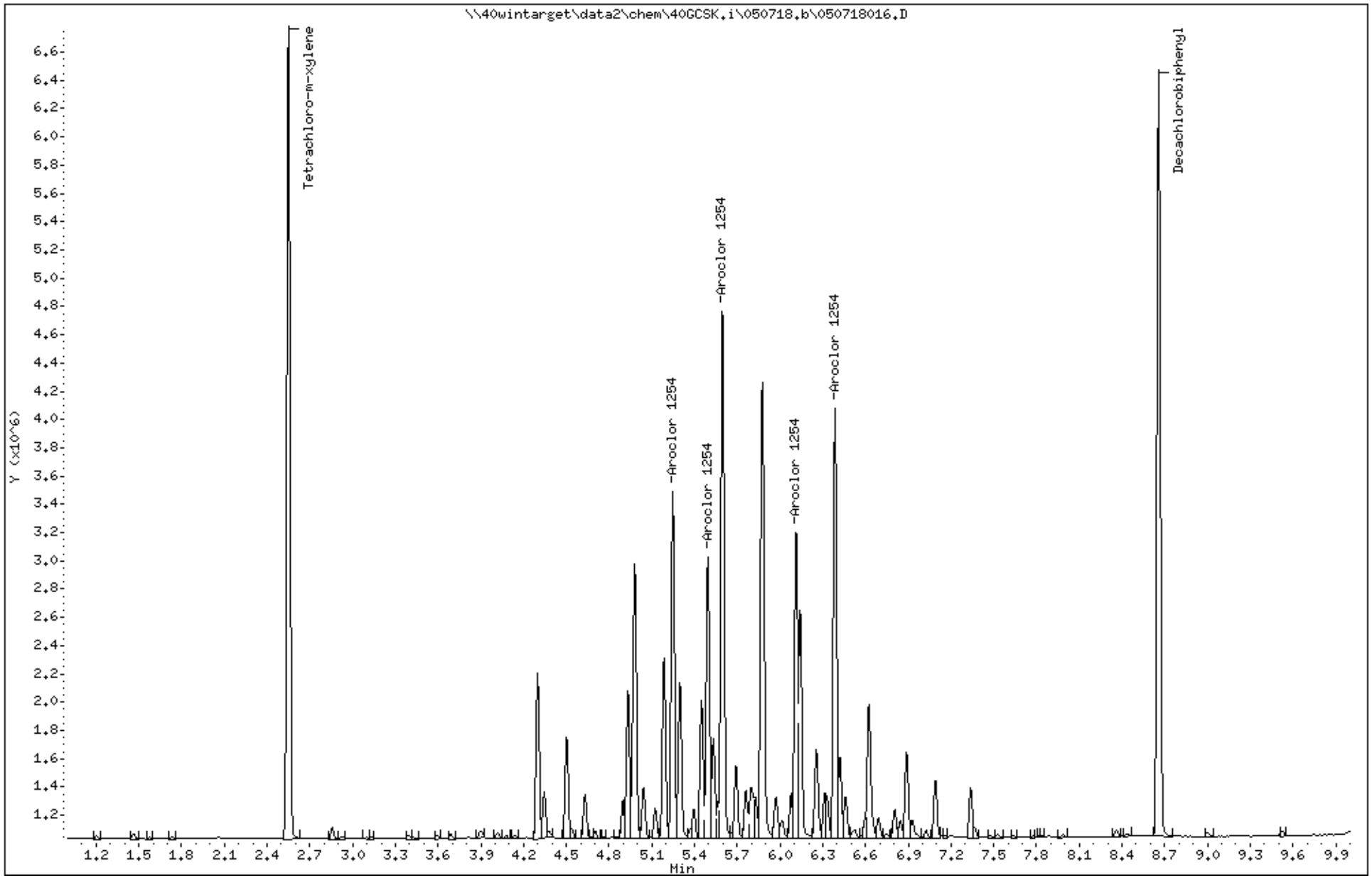
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718016.D
Date : 07-MAY-2018 17:17
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSK.i

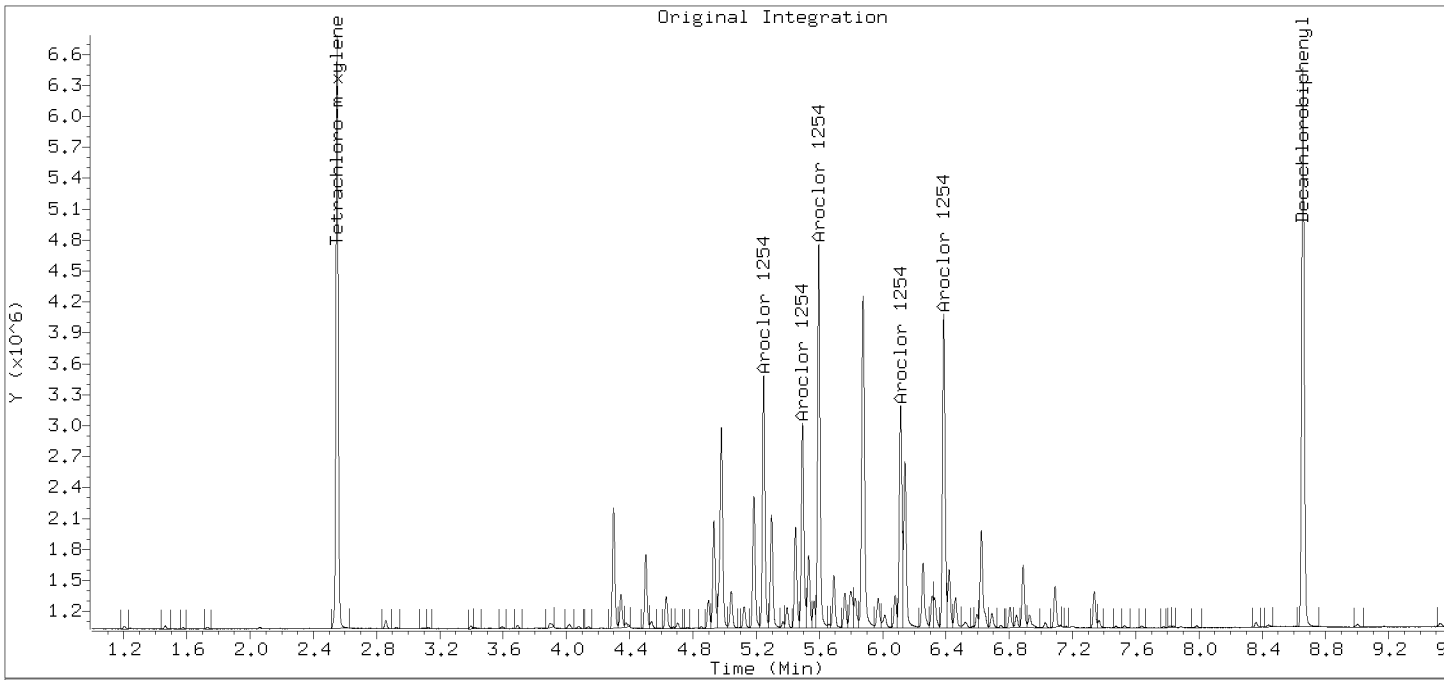
Operator: BLM

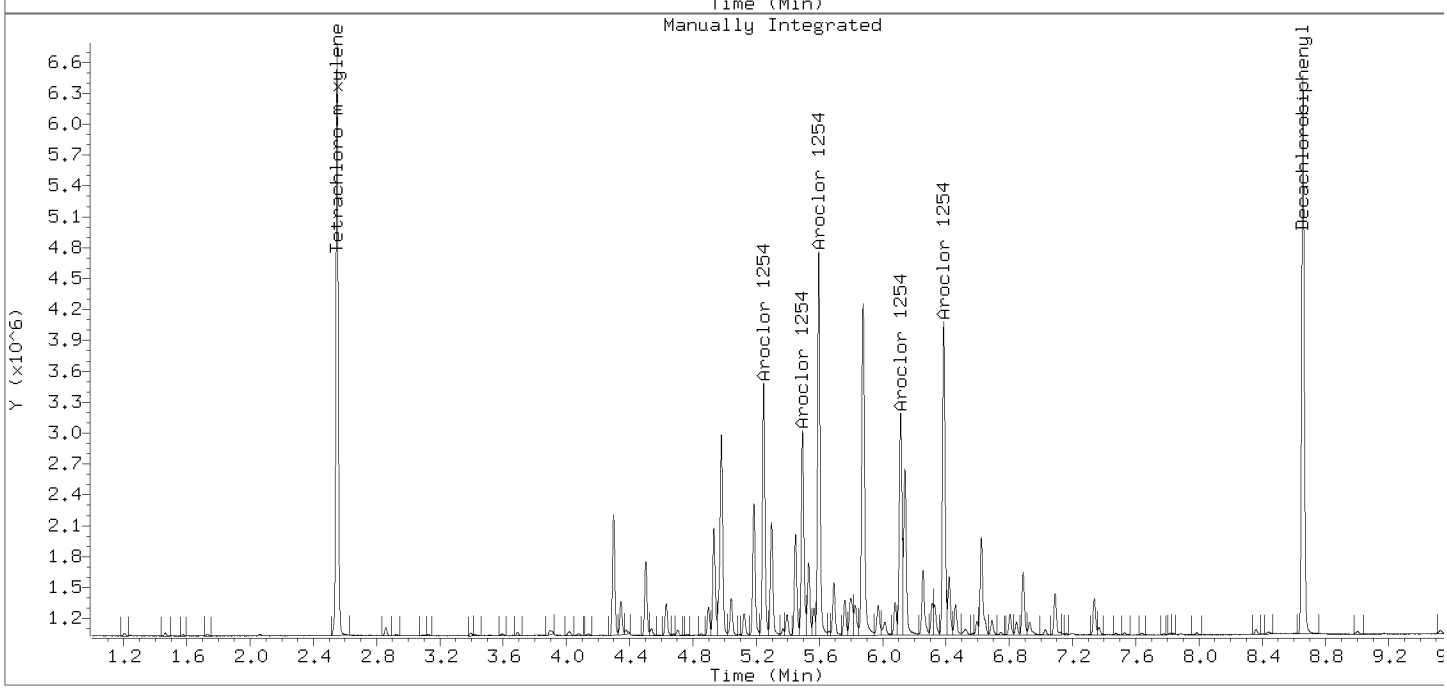
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 07-MAY-2018 17:17 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 2692691 | 2703633 | BA |
| Aroclor 1254 | 2692691 | 2703633 | BA |
| Aroclor 1254 | 2692691 | 2703633 | BA |
| Aroclor 1254 | 2692691 | 2703633 | BA |
| Aroclor 1254 | 2692691 | 2703633 | BA |
| Tetrachloro-m-xylene | 5730653 | 5730653 | |
| Decachlorobiphenyl | 6141762 | 6141762 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Lab Smp Id: 1660-CCV  Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 28  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 13700 | 13551 | 0.989 | 0.01 | | |
| 1.463 | 36721 | 33858 | 0.922 | 0.04 | | |
| 1.577 | 16929 | 14267 | 0.843 | 0.01 | | |
| 1.729 | 18860 | 15076 | 0.799 | 0.02 | | |
| 1.852 | 17097 | 12649 | 0.740 | 0.01 | | |
| 2.469 | 126899 | 100444 | 0.792 | 0.14 | | |
| 2.550 | 5511716 | 5368986 | 0.974 | 6.43 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 183567 | 148035 | 0.806 | 0.21 | | |
| 2.860 | 277091 | 256721 | 0.926 | 0.32 | | |
| 2.923 | 1047810 | 959282 | 0.916 | 1.22 | | |
| 3.129 | 146248 | 138443 | 0.947 | 0.17 | | |
| 3.355 | 21538 | 17791 | 0.826 | 0.02 | | |
| 3.396 | 1450100 | 1347889 | 0.930 | 1.69 | 5 Aroclor 1016 | BA |
| 3.422 | 867270 | 788391 | 0.909 | 1.01 | | |
| 3.513 | 232956 | 206726 | 0.887 | 0.27 | | |
| 3.594 | 1458296 | 1058346 | 0.726 | 1.70 | 5 Aroclor 1016 | BA |
| 3.690 | 42379 | 37447 | 0.884 | 0.04 | | |
| 3.732 | 24250 | 15640 | 0.645 | 0.02 | | |
| 3.776 | 40475 | 38024 | 0.939 | 0.04 | | |
| 3.813 | 364907 | 353563 | 0.969 | 0.42 | | |
| 3.837 | 254804 | 232306 | 0.912 | 0.29 | | |
| 3.908 | 4325727 | 2504409 | 0.579 | 5.05 | 5 Aroclor 1016 | BA |
| 4.011 | 1841720 | 1524820 | 0.828 | 2.15 | 5 Aroclor 1016 | BA |
| 4.077 | 1234282 | 1118972 | 0.907 | 1.44 | 5 Aroclor 1016 | BA |
| 4.142 | 373273 | 321733 | 0.862 | 0.43 | | |
| 4.220 | 145629 | 125161 | 0.859 | 0.17 | | |
| 4.297 | 1070568 | 1021262 | 0.954 | 1.25 | | |
| 4.344 | 965191 | 912381 | 0.945 | 1.12 | | |
| 4.376 | 401667 | 415953 | 1.036 | 0.46 | | |
| 4.394 | 512393 | 463563 | 0.905 | 0.59 | | |
| 4.456 | 34636 | 24180 | 0.698 | 0.04 | | |
| 4.502 | 1320592 | 1222980 | 0.926 | 1.54 | | |
| 4.536 | 1023287 | 774232 | 0.757 | 1.19 | | |
| 4.631 | 1692971 | 1504406 | 0.889 | 1.97 | | |
| 4.704 | 382306 | 348316 | 0.911 | 0.44 | | |
| 4.762 | 24904 | 19239 | 0.773 | 0.02 | | |
| 4.811 | 59216 | 51509 | 0.870 | 0.06 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.852 | 57611 | 50214 | 0.872 | 0.06 | |
| 4.898 | 318013 | 295574 | 0.929 | 0.37 | |
| 4.932 | 494794 | 471625 | 0.953 | 0.57 | |
| 4.980 | 1554702 | 1148344 | 0.739 | 1.81 | |
| 5.043 | 101403 | 81506 | 0.804 | 0.11 | |
| 5.122 | 92315 | 78533 | 0.851 | 0.10 | |
| 5.186 | 323604 | 293870 | 0.908 | 0.37 | |
| 5.247 | 1300566 | 1201529 | 0.924 | 1.51 | |
| 5.298 | 65927 | 50247 | 0.762 | 0.07 | |
| 5.392 | 16181 | 14180 | 0.876 | 0.01 | |
| 5.450 | 94435 | 80016 | 0.847 | 0.11 | |
| 5.493 | 353051 | 324288 | 0.919 | 0.41 | |
| 5.565 | 506418 | 494087 | 0.976 | 0.59 | |
| 5.595 | 906232 | 834044 | 0.920 | 1.05 | |
| 5.691 | 23794 | 15034 | 0.632 | 0.02 | |
| 5.760 | 1320340 | 1246802 | 0.944 | 1.54 | |
| 5.796 | 938868 | 514967 | 0.548 | 1.09 | |
| 5.871 | 3276516 | 2926664 | 0.893 | 3.82 | |
| 5.969 | 218720 | 199645 | 0.913 | 0.25 | |
| 6.016 | 106915 | 91089 | 0.852 | 0.12 | |
| 6.078 | 564684 | 545164 | 0.965 | 0.65 | |
| 6.116 | 1248894 | 1231318 | 0.986 | 1.45 | |
| 6.140 | 3750180 | 3251629 | 0.867 | 4.37 | |
| 6.254 | 2287499 | 1518080 | 0.664 | 2.67 | |
| 6.344 | 531455 | 306181 | 0.576 | 0.62 | |
| 6.386 | 4594760 | 3943508 | 0.858 | 5.36 | 8 Aroclor 1260 |
| 6.420 | 645019 | 583826 | 0.905 | 0.75 | |
| 6.461 | 158213 | 132840 | 0.840 | 0.18 | |
| 6.517 | 463445 | 409093 | 0.883 | 0.54 | |
| 6.571 | 103441 | 121553 | 1.175 | 0.12 | |
| 6.595 | 2196293 | 1989834 | 0.906 | 2.56 | |
| 6.623 | 430639 | 458221 | 1.064 | 0.50 | |
| 6.646 | 1375743 | 1230696 | 0.895 | 1.60 | |
| 6.690 | 154833 | 130444 | 0.842 | 0.18 | |
| 6.746 | 431186 | 414891 | 0.962 | 0.50 | |
| 6.804 | 2376420 | 2191139 | 0.922 | 2.77 | |
| 6.845 | 1339944 | 1206297 | 0.900 | 1.56 | |
| 6.888 | 1138692 | 1034113 | 0.908 | 1.32 | |
| 6.924 | 202083 | 174392 | 0.863 | 0.23 | |
| 6.954 | 96850 | 87497 | 0.903 | 0.11 | |
| 6.999 | 144812 | 140685 | 0.972 | 0.16 | |
| 7.028 | 482571 | 445223 | 0.923 | 0.56 | |
| 7.089 | 5362443 | 4924680 | 0.918 | 6.26 | 8 Aroclor 1260 |
| 7.121 | 359743 | 329047 | 0.915 | 0.42 | |
| 7.160 | 161760 | 137299 | 0.849 | 0.18 | |
| 7.208 | 224957 | 193157 | 0.859 | 0.26 | |
| 7.304 | 11479 | 12042 | 1.049 | 0.01 | |
| 7.337 | 2646137 | 2394376 | 0.905 | 3.09 | 8 Aroclor 1260 |
| 7.367 | 729525 | 625621 | 0.858 | 0.85 | |
| 7.474 | 1276767 | 1083889 | 0.849 | 1.49 | |
| 7.528 | 1545461 | 1383632 | 0.895 | 1.80 | 8 Aroclor 1260 |
| 7.637 | 119036 | 101525 | 0.853 | 0.13 | |
| 7.776 | 639543 | 594306 | 0.929 | 0.74 | |
| 7.811 | 101099 | 71907 | 0.711 | 0.11 | |
| 7.885 | 71718 | 54688 | 0.763 | 0.08 | |
| 7.985 | 1459542 | 1314629 | 0.901 | 1.70 | 8 Aroclor 1260 |
| 8.049 | 102098 | 84630 | 0.829 | 0.11 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 8.360 | 376140 | 336280 | 0.894 | 0.43 | |
| 8.655 | 6032558 | 5224319 | 0.866 | 7.54 | $ 12 Decachlorobiphenyl |
| 8.994 | 26765 | 16064 | 0.600 | 0.03 | |
| 9.525 | 31700 | 20956 | 0.661 | 0.03 | |
| | 85628507 | 74372480 | | 100.000 | |

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Lab Smp Id: 1660-CCV  Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 28  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5511715 | 0.05000 | 0.046 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.395 | 3.395 | 0.000 | 1450100 | 0.50000 | 0.47 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1458295 | 0.50000 | 0.46 | 0.00- 20.00 | 100.57 | BA |
| 3.907 | 3.909 | -0.002 | 4325727 | 0.50000 | 0.46 | 0.00- 20.00 | 298.31 | BA |
| 4.010 | 4.011 | -0.001 | 1841720 | 0.50000 | 0.46 | 0.00- 20.00 | 127.01 | BA |
| 4.076 | 4.078 | -0.002 | 1234282 | 0.50000 | 0.46 | 0.00- 20.00 | 85.12 | BA |
| Average of Peak Amounts = | | | | | 0.46200 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.385 | 6.387 | -0.002 | 4594759 | 0.50000 | 0.46 | 0.00- 20.00 | 100.00(M) | BA |
| 7.089 | 7.090 | -0.001 | 5362443 | 0.50000 | 0.46 | 0.00- 20.00 | 116.71 | BA |
| 7.337 | 7.338 | -0.001 | 2646136 | 0.50000 | 0.47 | 0.00- 20.00 | 57.59 | BA |
| 7.527 | 7.529 | -0.002 | 1545461 | 0.50000 | 0.45 | 0.00- 20.00 | 33.64 | BA |
| 7.984 | 7.987 | -0.003 | 1459541 | 0.50000 | 0.46 | 0.00- 20.00 | 31.77 | BA |
| Average of Peak Amounts = | | | | | 0.46000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.655 | 8.657 | -0.002 | 6032557 | 0.05000 | 0.045 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D



Date : 07-MAY-2018 20:27

Client ID: 1660-CCV

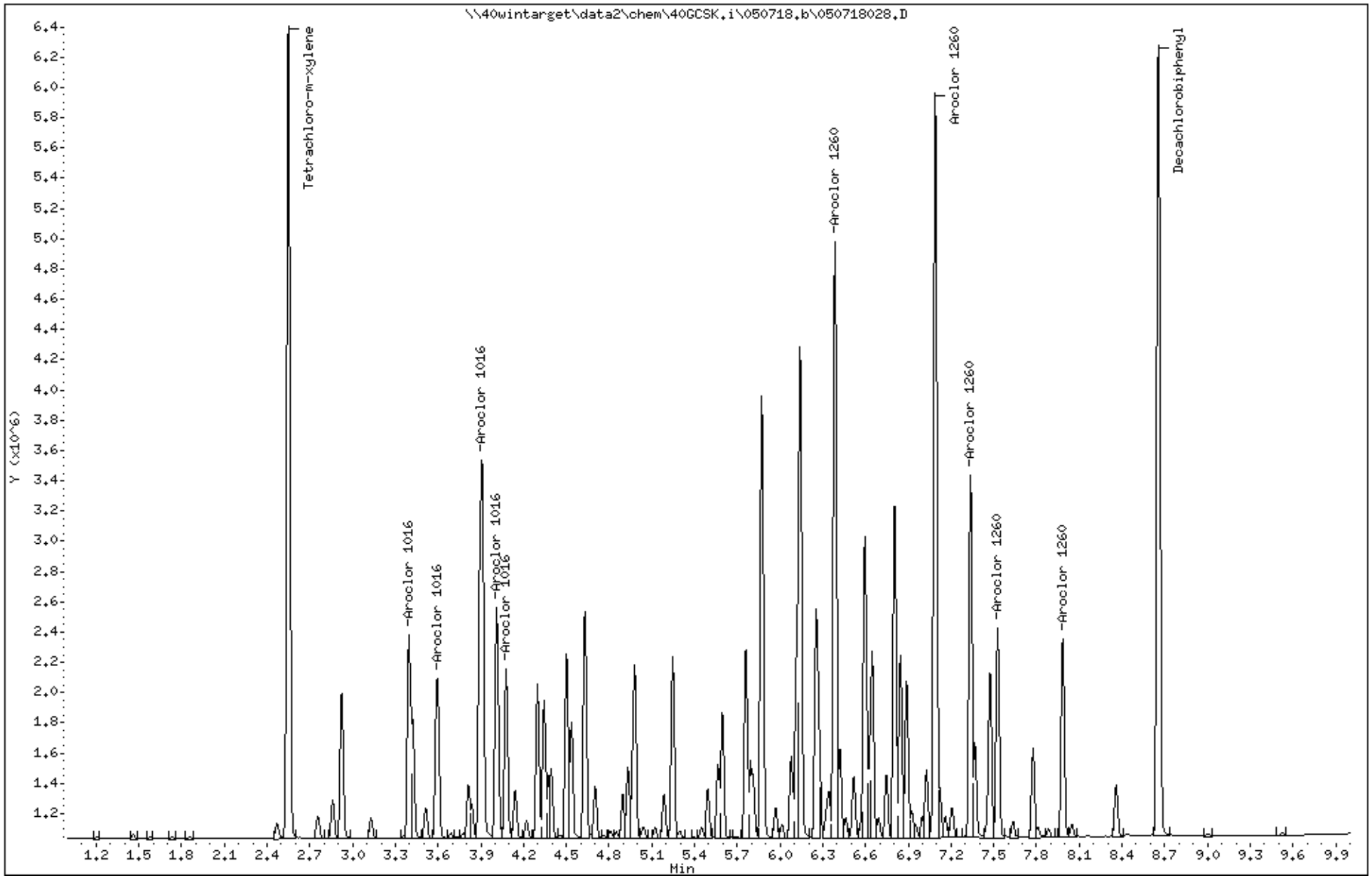
Instrument: 40GCSK.i

Sample Info: 1660-CCV, 185559:1

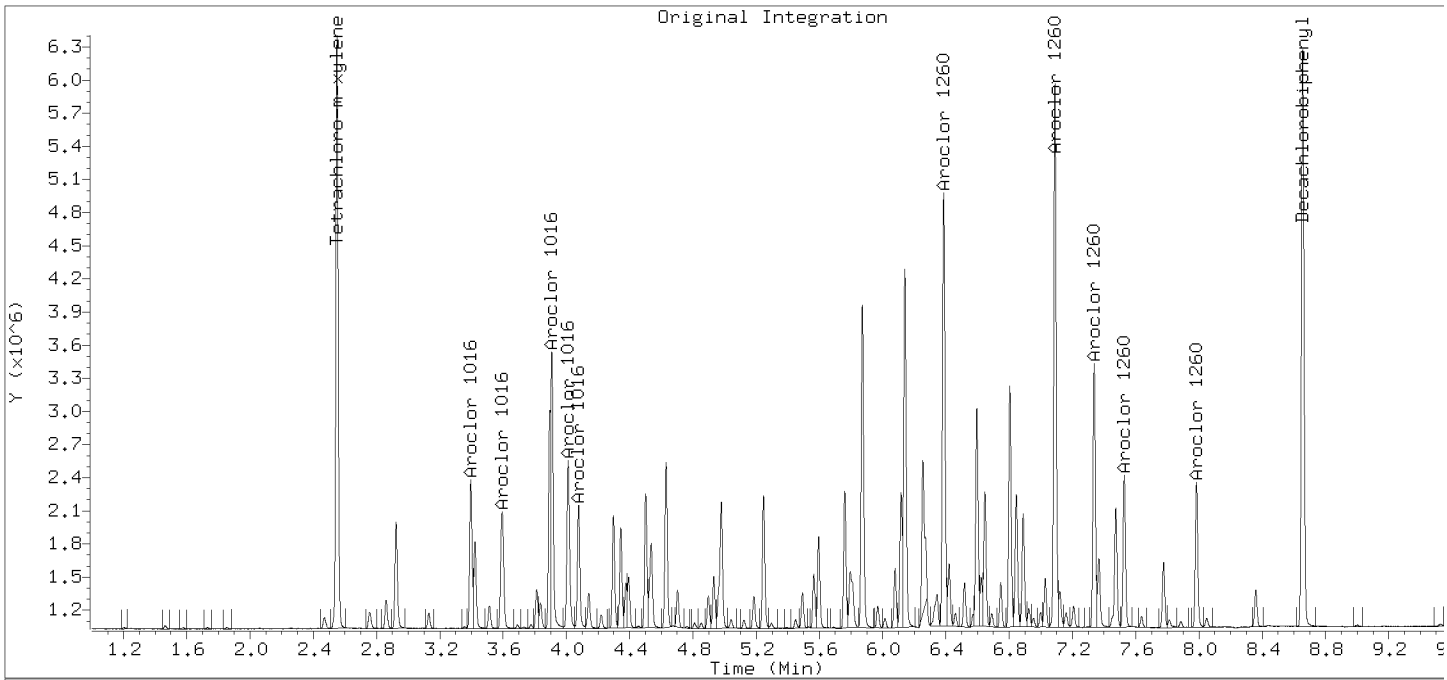
Operator: BLM

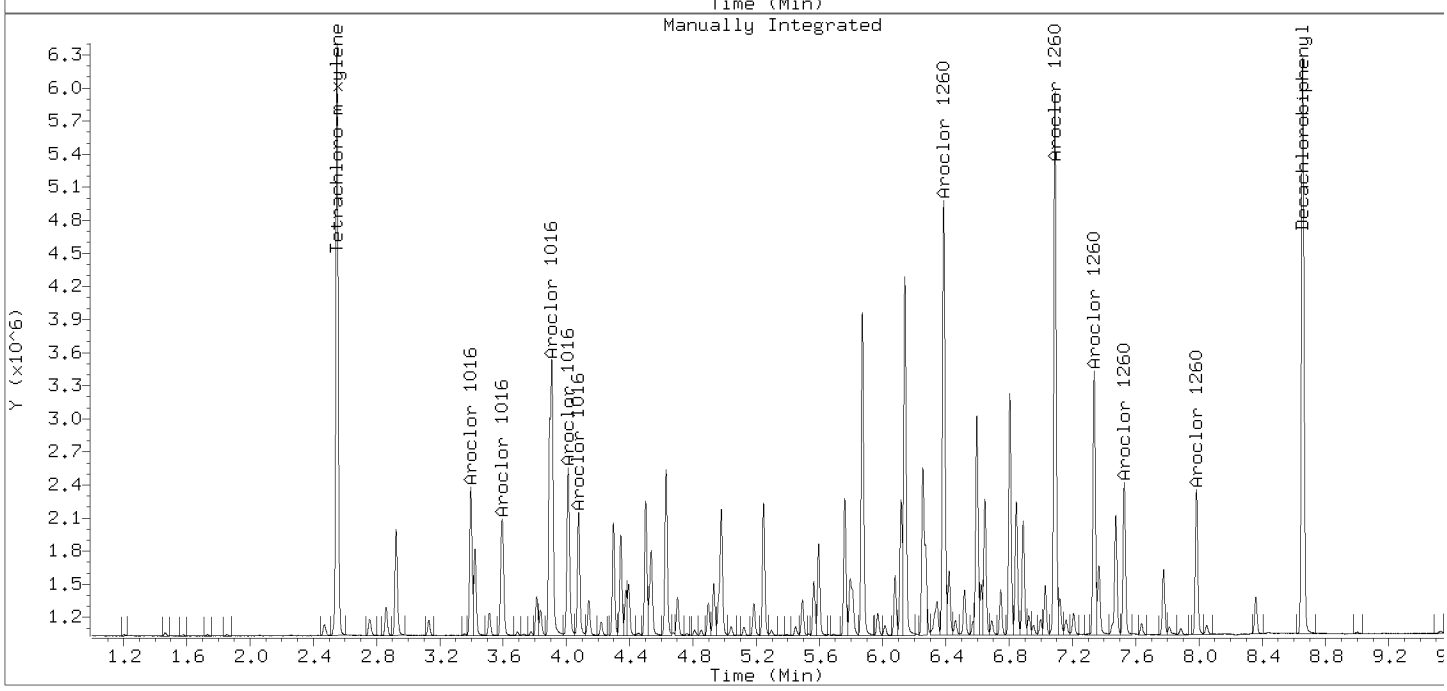
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 07-MAY-2018 20:27 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1446201 | 1450100 | BA |
| Aroclor 1016 | 1446201 | 1450100 | BA |
| Aroclor 1016 | 1446201 | 1450100 | BA |
| Aroclor 1016 | 1446201 | 1450100 | BA |
| Aroclor 1016 | 1446201 | 1450100 | BA |
| Aroclor 1260 | 4533239 | 4594759 | BA |
| Aroclor 1260 | 4533239 | 4594759 | BA |
| Aroclor 1260 | 4533239 | 4594759 | BA |
| Aroclor 1260 | 4533239 | 4594759 | BA |
| Aroclor 1260 | 4533239 | 4594759 | BA |
| Tetrachloro-m-xylene | 5511715 | 5511715 | |
| Decachlorobiphenyl | 6032557 | 6032557 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV  Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 40  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 33137 | 28086 | 0.848 | 0.19 | | |
| 1.463 | 34177 | 34226 | 1.001 | 0.20 | | |
| 1.577 | 18789 | 15155 | 0.807 | 0.11 | | |
| 1.730 | 19316 | 21704 | 1.124 | 0.11 | | |
| 1.854 | 463868 | 444877 | 0.959 | 2.72 | 1 Aroclor 1221 | BA |
| 2.060 | 26110 | 19070 | 0.730 | 0.15 | | |
| 2.257 | 156640 | 134731 | 0.860 | 0.92 | | |
| 2.471 | 244716 | 183960 | 0.752 | 1.43 | 1 Aroclor 1221 | BA |
| 2.550 | 5477215 | 5488095 | 1.002 | 32.20 | $ 2 Tetrachloro-m-xylene | BA |
| 2.758 | 652451 | 518527 | 0.795 | 3.83 | 1 Aroclor 1221 | BA |
| 2.861 | 505106 | 473505 | 0.937 | 2.97 | 1 Aroclor 1221 | BA |
| 2.924 | 1583135 | 1373779 | 0.868 | 9.30 | 1 Aroclor 1221 | BA |
| 3.095 | 16133 | 12828 | 0.795 | 0.09 | | |
| 3.129 | 32125 | 26521 | 0.826 | 0.18 | | |
| 3.358 | 106360 | 81744 | 0.769 | 0.62 | | |
| 3.404 | 373202 | 192794 | 0.517 | 2.19 | | |
| 3.514 | 34613 | 29439 | 0.851 | 0.20 | | |
| 3.594 | 137990 | 98782 | 0.716 | 0.81 | | |
| 3.690 | 35814 | 34908 | 0.975 | 0.21 | | |
| 3.813 | 39037 | 36737 | 0.941 | 0.22 | | |
| 3.837 | 47623 | 34742 | 0.730 | 0.28 | | |
| 3.909 | 314987 | 182335 | 0.579 | 1.85 | | |
| 4.011 | 146547 | 122746 | 0.838 | 0.86 | | |
| 4.078 | 92419 | 81396 | 0.881 | 0.54 | | |
| 4.132 | 13358 | 12566 | 0.941 | 0.07 | | |
| 4.297 | 37610 | 31363 | 0.834 | 0.22 | | |
| 4.344 | 28352 | 29244 | 1.031 | 0.16 | | |
| 4.502 | 39710 | 37444 | 0.943 | 0.23 | | |
| 4.536 | 46224 | 30171 | 0.653 | 0.27 | | |
| 4.632 | 46710 | 44548 | 0.954 | 0.27 | | |
| 4.701 | 10383 | 10748 | 1.035 | 0.06 | | |
| 4.898 | 20305 | 18670 | 0.919 | 0.11 | | |
| 4.934 | 31996 | 31721 | 0.991 | 0.18 | | |
| 4.962 | 40021 | 32413 | 0.810 | 0.23 | | |
| 5.122 | 32215 | 28917 | 0.898 | 0.18 | | |
| 5.248 | 10717 | 9331 | 0.871 | 0.06 | | |
| 5.595 | 15396 | 12539 | 0.814 | 0.09 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.277 | 17342 | 14464 | 0.834 | 0.10 | |
| 7.815 | 22145 | 15429 | 0.697 | 0.13 | |
| 7.885 | 13062 | 11263 | 0.862 | 0.07 | |
| 8.361 | 50369 | 45077 | 0.895 | 0.29 | |
| 8.441 | 14071 | 12318 | 0.875 | 0.08 | |
| 8.656 | 5883715 | 5106405 | 0.868 | 34.79 | $ 12 Decachlorobiphenyl |
| 8.778 | 12887 | 6610 | 0.513 | 0.07 | |
| 9.000 | 28388 | 19242 | 0.678 | 0.16 | |
| | 17006484 | 15231170 | | 100.000 | |

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV  Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 40  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1221.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5477215 | 0.05000 | 0.045 | | (M) | BA |
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 463868 | 0.50000 | 0.47 | 0.00- 20.00 | 100.00(M) | BA |
| 2.471 | 2.471 | 0.000 | 244715 | 0.50000 | 0.46 | 0.00- 20.00 | 52.76 | BA |
| 2.757 | 2.758 | -0.001 | 652451 | 0.50000 | 0.47 | 0.00- 20.00 | 140.65 | BA |
| 2.860 | 2.860 | 0.000 | 505105 | 0.50000 | 0.46 | 0.00- 20.00 | 108.89 | BA |
| 2.923 | 2.923 | 0.000 | 1583134 | 0.50000 | 0.47 | 0.00- 20.00 | 341.29 | BA |
| Average of Peak Amounts = | | | | | 0.46600 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 5883714 | 0.05000 | 0.044 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

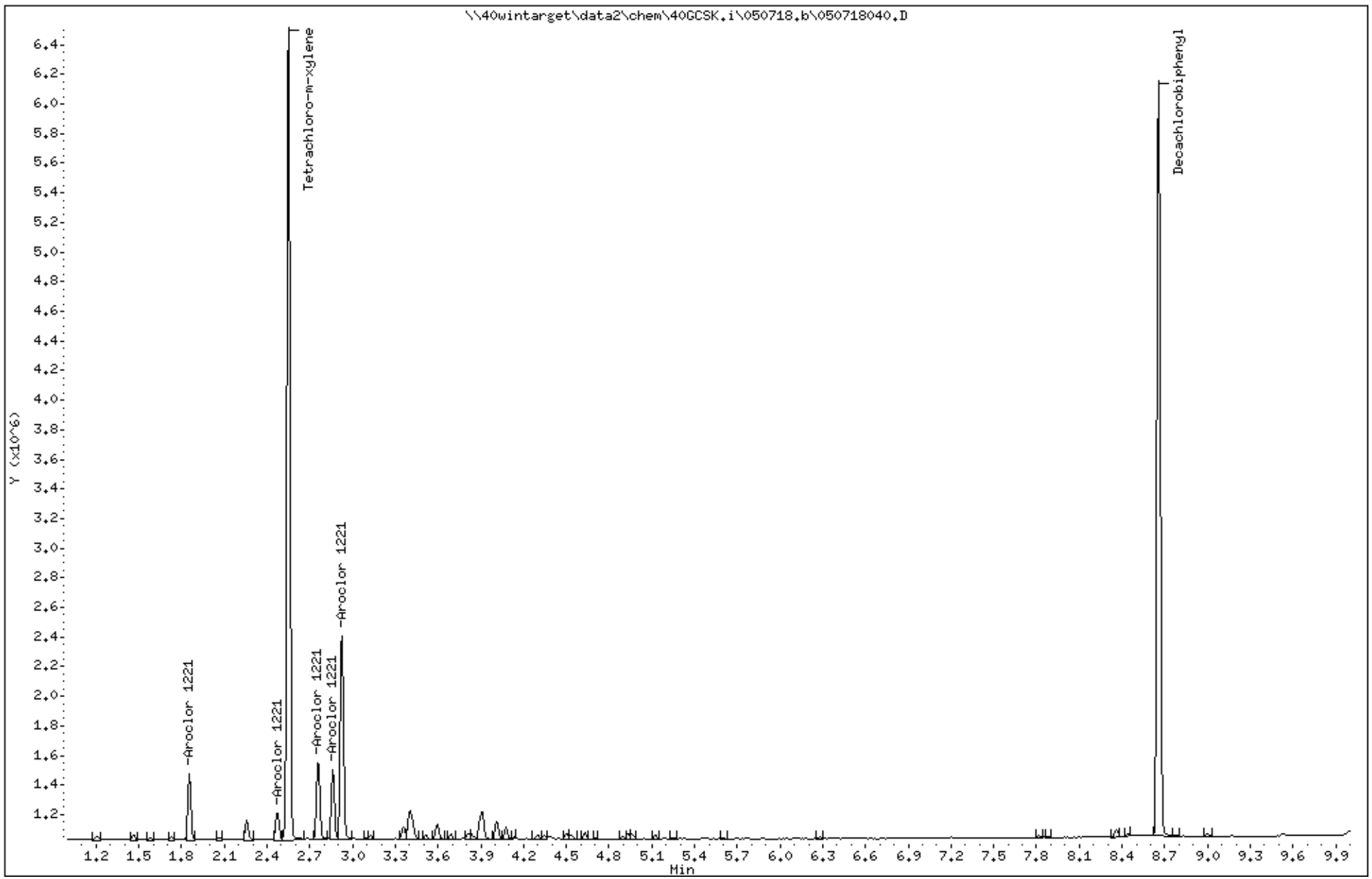
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Date : 07-MAY-2018 23:37
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

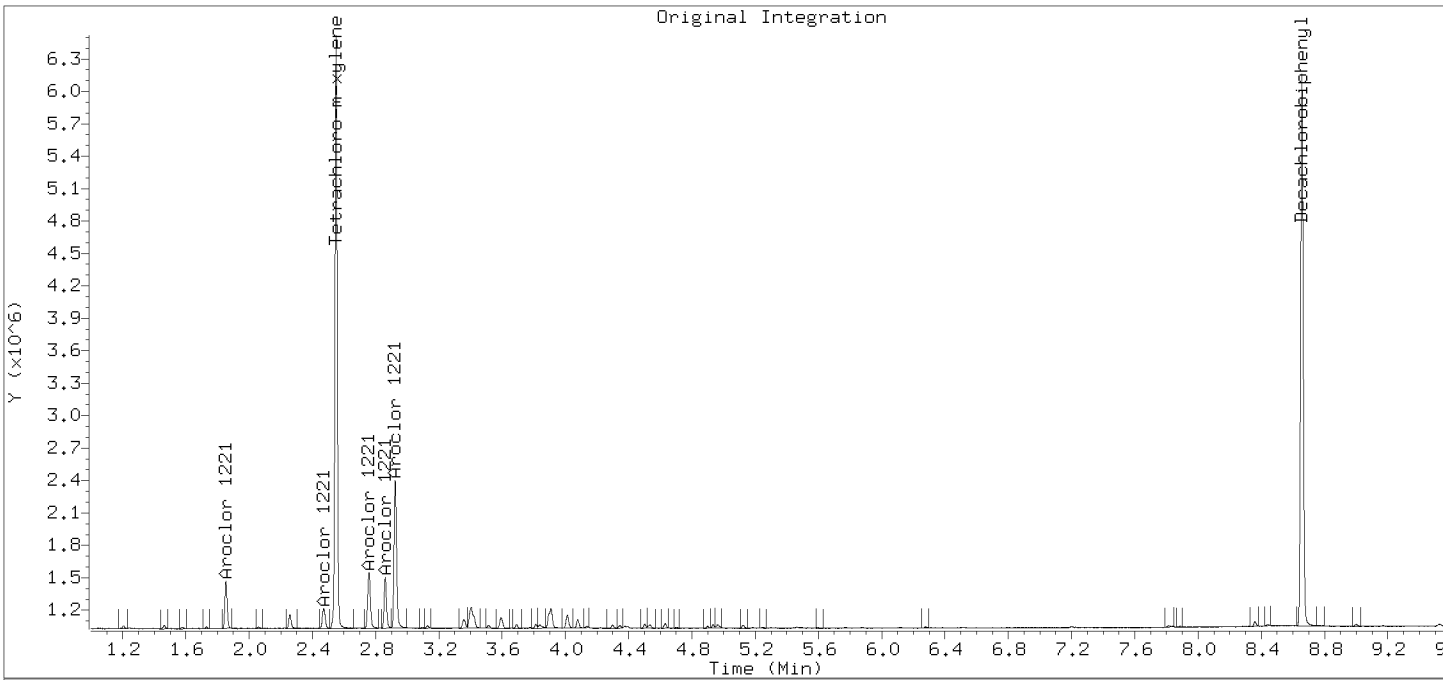
Operator: BLM

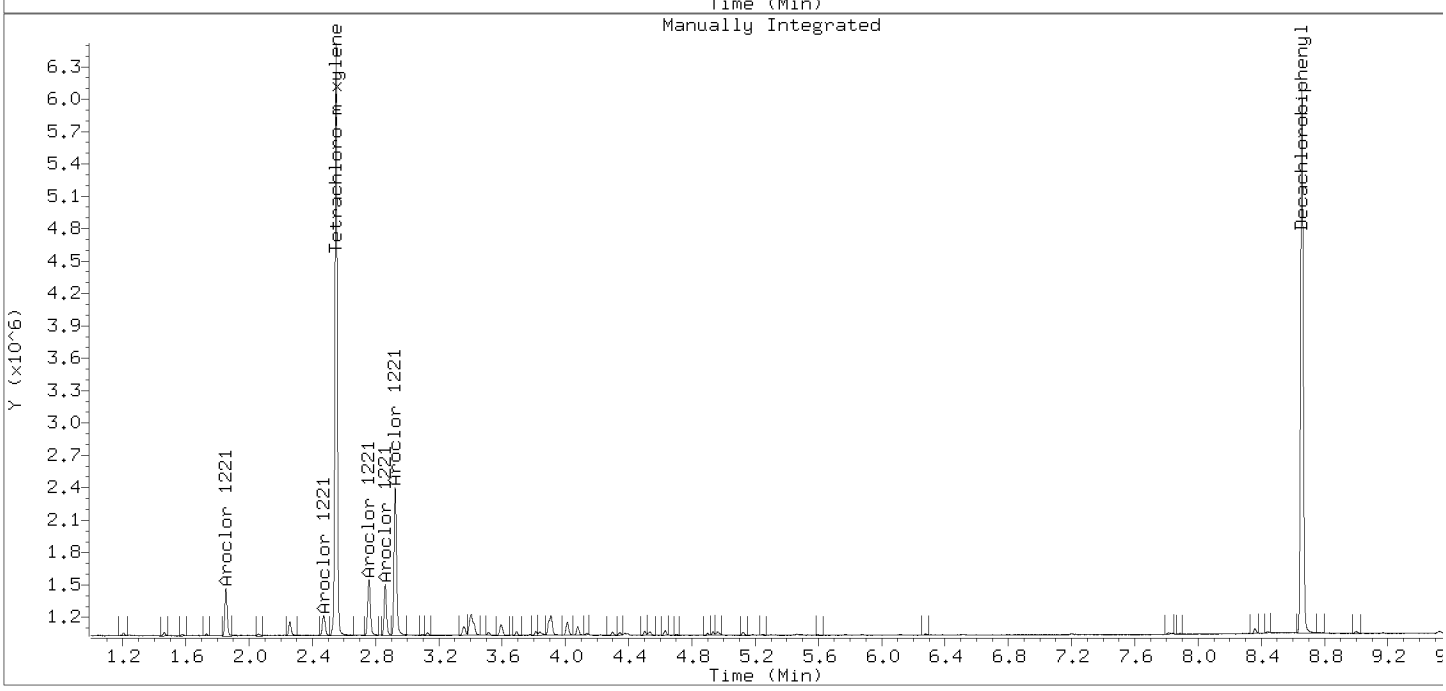
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718040.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 07-MAY-2018 23:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1221 | 448305 | 463868 | BA |
| Aroclor 1221 | 448305 | 463868 | BA |
| Aroclor 1221 | 448305 | 463868 | BA |
| Aroclor 1221 | 448305 | 463868 | BA |
| Aroclor 1221 | 448305 | 463868 | BA |
| Tetrachloro-m-xylene | 5457840 | 5477215 | BA |
| Decachlorobiphenyl | 5883714 | 5883714 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV  Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 52  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1232.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 29933 | 28232 | 0.943 | 0.10 | | |
| 1.466 | 35473 | 33281 | 0.938 | 0.12 | | |
| 1.576 | 17699 | 15411 | 0.871 | 0.06 | | |
| 1.734 | 23365 | 22976 | 0.983 | 0.08 | | |
| 1.855 | 289890 | 272695 | 0.941 | 1.01 | | |
| 2.063 | 20251 | 15706 | 0.776 | 0.07 | | |
| 2.258 | 81551 | 77517 | 0.951 | 0.28 | | |
| 2.472 | 187449 | 145479 | 0.776 | 0.65 | | |
| 2.550 | 5696554 | 5722742 | 1.005 | 19.91 | $ 2 Tetrachloro-m-xylene | |
| 2.759 | 441820 | 342053 | 0.774 | 1.54 | | |
| 2.861 | 402035 | 368936 | 0.918 | 1.40 | | |
| 2.924 | 1330064 | 1176803 | 0.885 | 4.65 | 4 Aroclor 1232 | BA |
| 3.131 | 86850 | 76402 | 0.880 | 0.30 | | |
| 3.360 | 71851 | 51668 | 0.719 | 0.25 | | |
| 3.396 | 754496 | 674793 | 0.894 | 2.63 | | |
| 3.423 | 450406 | 386442 | 0.858 | 1.57 | | |
| 3.513 | 127047 | 107360 | 0.845 | 0.44 | | |
| 3.594 | 693719 | 501762 | 0.723 | 2.42 | 4 Aroclor 1232 | BA |
| 3.690 | 43061 | 37586 | 0.873 | 0.15 | | |
| 3.779 | 23807 | 23465 | 0.986 | 0.08 | | |
| 3.813 | 181178 | 172194 | 0.950 | 0.63 | | |
| 3.838 | 147645 | 119492 | 0.809 | 0.51 | | |
| 3.910 | 2052971 | 1161393 | 0.566 | 7.17 | 4 Aroclor 1232 | BA |
| 4.012 | 876285 | 715320 | 0.816 | 3.06 | 4 Aroclor 1232 | BA |
| 4.078 | 579239 | 524171 | 0.905 | 2.02 | 4 Aroclor 1232 | BA |
| 4.142 | 175706 | 143296 | 0.816 | 0.61 | | |
| 4.221 | 66847 | 53284 | 0.797 | 0.23 | | |
| 4.299 | 416283 | 382441 | 0.919 | 1.45 | | |
| 4.345 | 406850 | 375955 | 0.924 | 1.42 | | |
| 4.377 | 173045 | 184270 | 1.065 | 0.60 | | |
| 4.393 | 218624 | 197114 | 0.902 | 0.76 | | |
| 4.502 | 561560 | 521659 | 0.929 | 1.96 | | |
| 4.536 | 487210 | 336083 | 0.690 | 1.70 | | |
| 4.631 | 739135 | 661316 | 0.895 | 2.58 | | |
| 4.703 | 181193 | 157360 | 0.868 | 0.63 | | |
| 4.761 | 19496 | 12071 | 0.619 | 0.06 | | |
| 4.812 | 39213 | 31377 | 0.800 | 0.13 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.855 | 43065 | 36735 | 0.853 | 0.15 | |
| 4.899 | 332628 | 309099 | 0.929 | 1.16 | |
| 4.933 | 590725 | 550658 | 0.932 | 2.06 | |
| 4.965 | 785496 | 579774 | 0.738 | 2.74 | |
| 5.045 | 92154 | 65343 | 0.709 | 0.32 | |
| 5.124 | 645911 | 573924 | 0.889 | 2.25 | |
| 5.185 | 108526 | 94333 | 0.869 | 0.37 | |
| 5.247 | 139832 | 121492 | 0.869 | 0.48 | |
| 5.299 | 109684 | 87863 | 0.801 | 0.38 | |
| 5.397 | 26665 | 21476 | 0.805 | 0.09 | |
| 5.449 | 91564 | 74759 | 0.816 | 0.32 | |
| 5.494 | 143560 | 122802 | 0.855 | 0.50 | |
| 5.533 | 92641 | 80645 | 0.871 | 0.32 | |
| 5.596 | 248652 | 184027 | 0.740 | 0.86 | |
| 5.691 | 73063 | 66092 | 0.905 | 0.25 | |
| 5.764 | 23921 | 15062 | 0.630 | 0.08 | |
| 5.799 | 16070 | 15341 | 0.955 | 0.05 | |
| 5.825 | 20313 | 16911 | 0.833 | 0.07 | |
| 5.878 | 178544 | 128849 | 0.722 | 0.62 | |
| 5.972 | 25185 | 15650 | 0.621 | 0.08 | |
| 6.113 | 134279 | 113726 | 0.847 | 0.46 | |
| 6.142 | 33880 | 30048 | 0.887 | 0.11 | |
| 6.252 | 14341 | 13088 | 0.913 | 0.05 | |
| 6.275 | 24580 | 18927 | 0.770 | 0.08 | |
| 6.322 | 13355 | 6569 | 0.492 | 0.04 | |
| 6.385 | 45144 | 37039 | 0.820 | 0.15 | |
| 6.508 | 13263 | 9093 | 0.686 | 0.04 | |
| 6.597 | 12017 | 12213 | 1.016 | 0.04 | |
| 6.803 | 16085 | 14962 | 0.930 | 0.05 | |
| 6.892 | 12142 | 9528 | 0.785 | 0.04 | |
| 7.090 | 29695 | 24726 | 0.833 | 0.10 | |
| 7.196 | 12571 | 8512 | 0.677 | 0.04 | |
| 7.338 | 16931 | 15967 | 0.943 | 0.05 | |
| 7.524 | 10437 | 8864 | 0.849 | 0.03 | |
| 7.816 | 14996 | 14397 | 0.960 | 0.05 | |
| 7.887 | 14016 | 11781 | 0.841 | 0.04 | |
| 8.360 | 58163 | 48067 | 0.826 | 0.20 | |
| 8.436 | 14650 | 12740 | 0.870 | 0.05 | |
| 8.657 | 6113901 | 5189282 | 0.849 | 21.75 | $ 12 Decachlorobiphenyl |
| 9.002 | 30723 | 18053 | 0.588 | 0.10 | |
| 9.525 | 44558 | 22488 | 0.505 | 0.15 | |
| | 28597730 | 24631010 | | 100.000 | |

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV  Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 52  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1232.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5696554 | 0.05000 | 0.047 | | | |
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| 2.924 | 2.922 | 0.002 | 1330063 | 0.50000 | 0.49 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 693718 | 0.50000 | 0.49 | 0.00- 20.00 | 52.16 | BA |
| 3.909 | 3.908 | 0.001 | 2052970 | 0.50000 | 0.50 | 0.00- 20.00 | 154.35 | BA |
| 4.012 | 4.011 | 0.001 | 876285 | 0.50000 | 0.49 | 0.00- 20.00 | 65.88 | BA |
| 4.077 | 4.078 | -0.001 | 579239 | 0.50000 | 0.49 | 0.00- 20.00 | 43.55 | BA |
| Average of Peak Amounts = | | | | | 0.49200 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 6113901 | 0.05000 | 0.046 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D



Date : 08-MAY-2018 02:47

Client ID: 1232-CCV

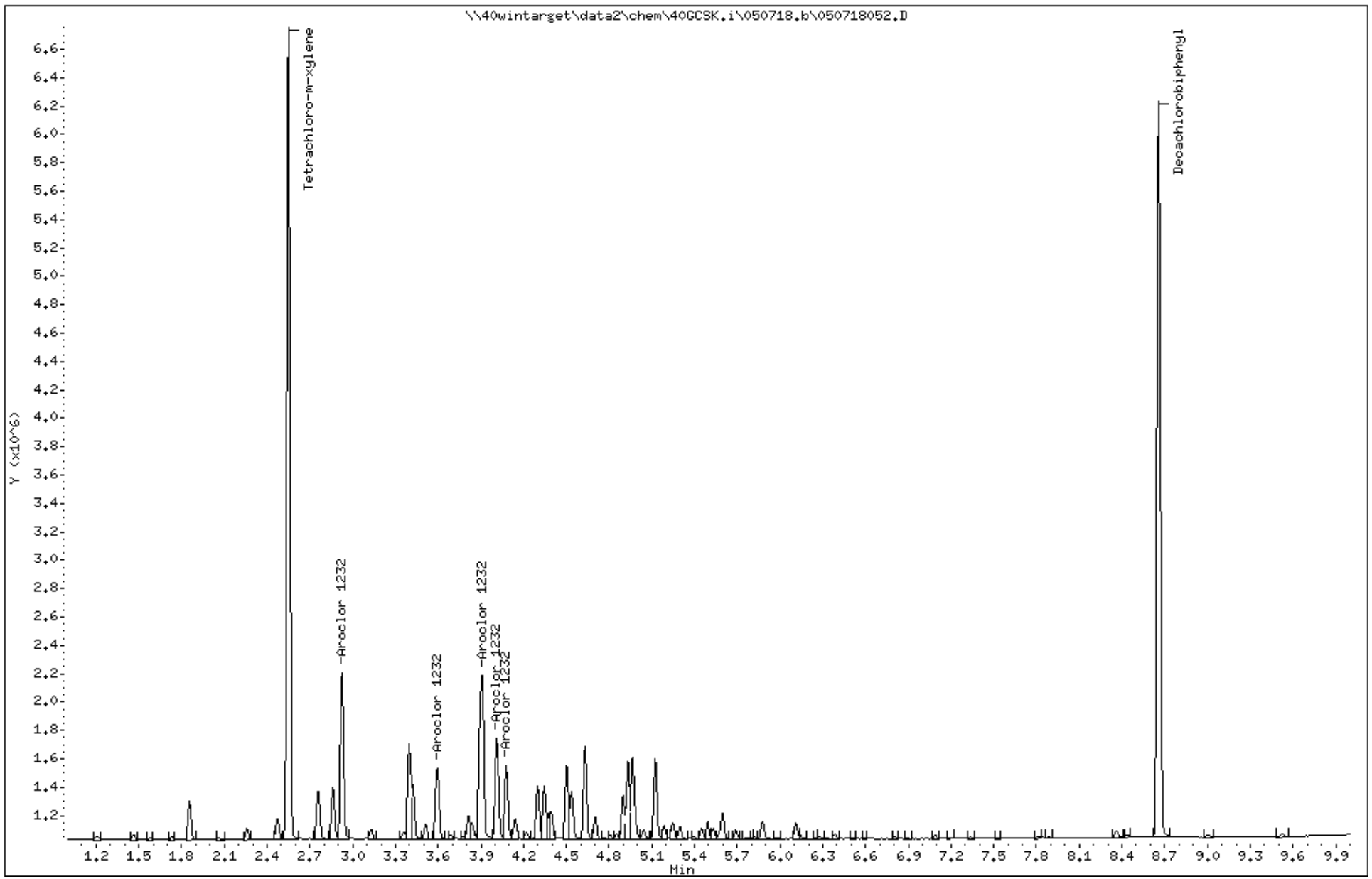
Instrument: 40GCSK.i

Sample Info: 1232-CCV, 185539:1

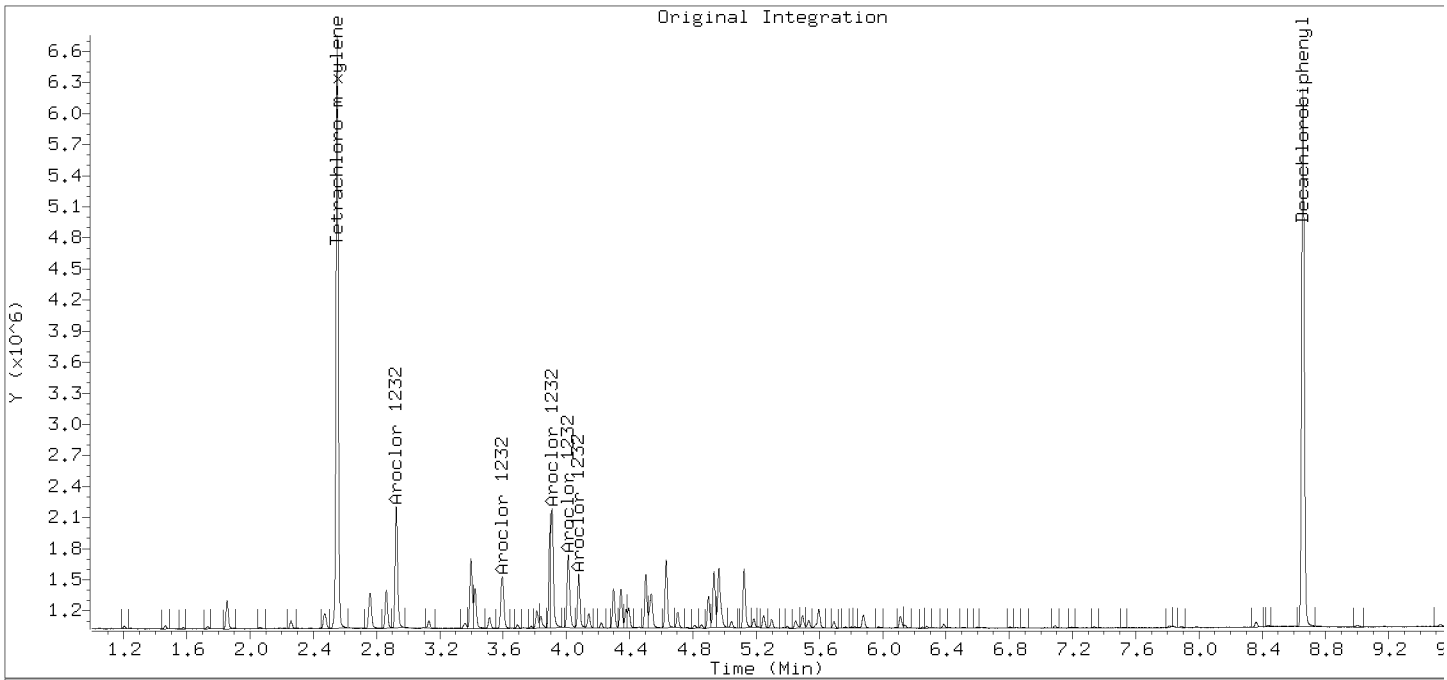
Operator: BLM

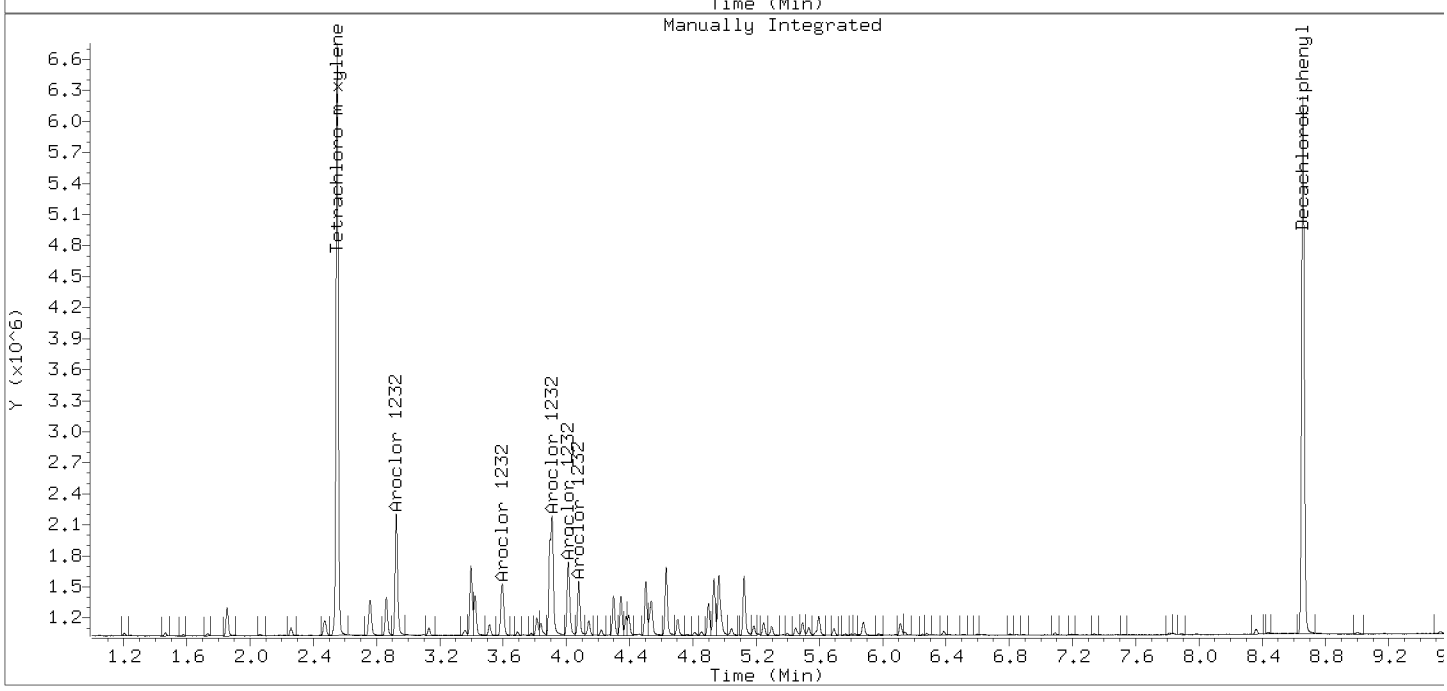
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718052.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 08-MAY-2018 02:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1232 | 1288947 | 1330063 | BA |
| Aroclor 1232 | 1288947 | 1330063 | BA |
| Aroclor 1232 | 1288947 | 1330063 | BA |
| Aroclor 1232 | 1288947 | 1330063 | BA |
| Aroclor 1232 | 1288947 | 1330063 | BA |
| Tetrachloro-m-xylene | 5696554 | 5696554 | |
| Decachlorobiphenyl | 6113901 | 6113901 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Lab Smp Id: 1242-CCV  Client Smp ID: 1242-CCV
Inj Date : 08-MAY-2018 05:57
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 64  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 21894 | 17418 | 0.796 | 0.05 | | |
| 1.462 | 38726 | 33855 | 0.874 | 0.09 | | |
| 1.578 | 14171 | 15004 | 1.059 | 0.03 | | |
| 1.732 | 19468 | 17721 | 0.910 | 0.04 | | |
| 1.855 | 17588 | 13182 | 0.749 | 0.04 | | |
| 2.059 | 15569 | 11926 | 0.766 | 0.03 | | |
| 2.470 | 115679 | 95094 | 0.822 | 0.28 | | |
| 2.550 | 5675705 | 5698471 | 1.004 | 14.13 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 174261 | 135253 | 0.776 | 0.43 | | |
| 2.860 | 258820 | 241474 | 0.933 | 0.64 | | |
| 2.923 | 945851 | 871850 | 0.922 | 2.35 | | |
| 3.129 | 131847 | 125917 | 0.955 | 0.32 | | |
| 3.357 | 18790 | 15332 | 0.816 | 0.04 | | |
| 3.395 | 1261622 | 1192848 | 0.945 | 3.14 | 3 Aroclor 1242 | BA |
| 3.422 | 743416 | 687436 | 0.925 | 1.85 | | |
| 3.513 | 200931 | 181203 | 0.902 | 0.50 | | |
| 3.594 | 1256286 | 915880 | 0.729 | 3.12 | 3 Aroclor 1242 | BA |
| 3.691 | 39254 | 37031 | 0.943 | 0.09 | | |
| 3.777 | 33795 | 33619 | 0.995 | 0.08 | | |
| 3.813 | 313240 | 303043 | 0.967 | 0.77 | | |
| 3.837 | 220804 | 197251 | 0.893 | 0.54 | | |
| 3.908 | 3707306 | 2099684 | 0.566 | 9.23 | 3 Aroclor 1242 | BA |
| 4.012 | 1587070 | 1287994 | 0.812 | 3.95 | 3 Aroclor 1242 | BA |
| 4.078 | 1053602 | 961025 | 0.912 | 2.62 | 3 Aroclor 1242 | BA |
| 4.143 | 322227 | 277227 | 0.860 | 0.80 | | |
| 4.220 | 125385 | 108356 | 0.864 | 0.31 | | |
| 4.298 | 872722 | 822715 | 0.943 | 2.17 | | |
| 4.344 | 837376 | 804957 | 0.961 | 2.08 | | |
| 4.377 | 346965 | 359761 | 1.037 | 0.86 | | |
| 4.394 | 451141 | 407996 | 0.904 | 1.12 | | |
| 4.456 | 21991 | 21321 | 0.970 | 0.05 | | |
| 4.502 | 1140730 | 1087787 | 0.954 | 2.84 | | |
| 4.536 | 936718 | 679774 | 0.726 | 2.33 | | |
| 4.631 | 1516999 | 1339199 | 0.883 | 3.77 | | |
| 4.704 | 343386 | 318077 | 0.926 | 0.85 | | |
| 4.762 | 25087 | 19792 | 0.789 | 0.06 | | |
| 4.811 | 71583 | 61071 | 0.853 | 0.17 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.852 | 81353 | 75639 | 0.930 | 0.20 | |
| 4.898 | 713872 | 691419 | 0.969 | 1.77 | |
| 4.932 | 1246272 | 1174445 | 0.942 | 3.10 | |
| 4.963 | 1612092 | 1175171 | 0.729 | 4.01 | |
| 5.042 | 187597 | 138938 | 0.741 | 0.46 | |
| 5.123 | 1330123 | 1199758 | 0.902 | 3.31 | |
| 5.185 | 278195 | 219292 | 0.788 | 0.69 | |
| 5.247 | 327448 | 292489 | 0.893 | 0.81 | |
| 5.297 | 252340 | 217638 | 0.862 | 0.62 | |
| 5.368 | 19181 | 18055 | 0.941 | 0.04 | |
| 5.393 | 54061 | 45829 | 0.848 | 0.13 | |
| 5.449 | 213489 | 182107 | 0.853 | 0.53 | |
| 5.493 | 353474 | 298272 | 0.844 | 0.88 | |
| 5.532 | 221135 | 197868 | 0.895 | 0.55 | |
| 5.595 | 576946 | 449783 | 0.780 | 1.43 | |
| 5.693 | 164068 | 150005 | 0.914 | 0.40 | |
| 5.756 | 15403 | 13559 | 0.880 | 0.03 | |
| 5.802 | 32809 | 29667 | 0.904 | 0.08 | |
| 5.826 | 44704 | 41891 | 0.937 | 0.11 | |
| 5.877 | 429066 | 346175 | 0.807 | 1.06 | |
| 5.977 | 56976 | 37692 | 0.662 | 0.14 | |
| 6.073 | 13613 | 11948 | 0.878 | 0.03 | |
| 6.111 | 356692 | 303622 | 0.851 | 0.88 | |
| 6.142 | 61206 | 53874 | 0.880 | 0.15 | |
| 6.254 | 17324 | 18617 | 1.075 | 0.04 | |
| 6.278 | 18918 | 18152 | 0.960 | 0.04 | |
| 6.312 | 10661 | 9358 | 0.878 | 0.02 | |
| 6.386 | 109449 | 98281 | 0.898 | 0.27 | |
| 6.421 | 18399 | 19259 | 1.047 | 0.04 | |
| 6.461 | 11059 | 12876 | 1.164 | 0.02 | |
| 6.624 | 41557 | 37895 | 0.912 | 0.10 | |
| 6.887 | 25614 | 23039 | 0.899 | 0.06 | |
| 7.089 | 12528 | 12303 | 0.982 | 0.03 | |
| 7.342 | 11473 | 8944 | 0.780 | 0.02 | |
| 7.813 | 12246 | 14169 | 1.157 | 0.03 | |
| 7.884 | 20263 | 14020 | 0.692 | 0.05 | |
| 8.359 | 56951 | 50737 | 0.891 | 0.14 | |
| 8.438 | 16123 | 15406 | 0.956 | 0.04 | |
| 8.656 | 6164797 | 5285298 | 0.857 | 15.69 | $ 12 Decachlorobiphenyl |
| 9.000 | 41940 | 27710 | 0.661 | 0.10 | |
| 9.527 | 54269 | 36626 | 0.675 | 0.13 | |
| | 40163692 | 34565370 | | 100.000 | |

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Lab Smp Id: 1242-CCV  Client Smp ID: 1242-CCV
Inj Date : 08-MAY-2018 05:57
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 64  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1242.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5675704 | 0.05000 | 0.047 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1261621 | 0.50000 | 0.52 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1256286 | 0.50000 | 0.51 | 0.00- 20.00 | 99.58 | BA |
| 3.908 | 3.909 | -0.001 | 3707305 | 0.50000 | 0.51 | 0.00- 20.00 | 293.85 | BA |
| 4.011 | 4.011 | 0.000 | 1587069 | 0.50000 | 0.51 | 0.00- 20.00 | 125.80 | BA |
| 4.078 | 4.078 | 0.000 | 1053601 | 0.50000 | 0.50 | 0.00- 20.00 | 83.51 | BA |
| Average of Peak Amounts = | | | | | 0.51000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 6164796 | 0.05000 | 0.046 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

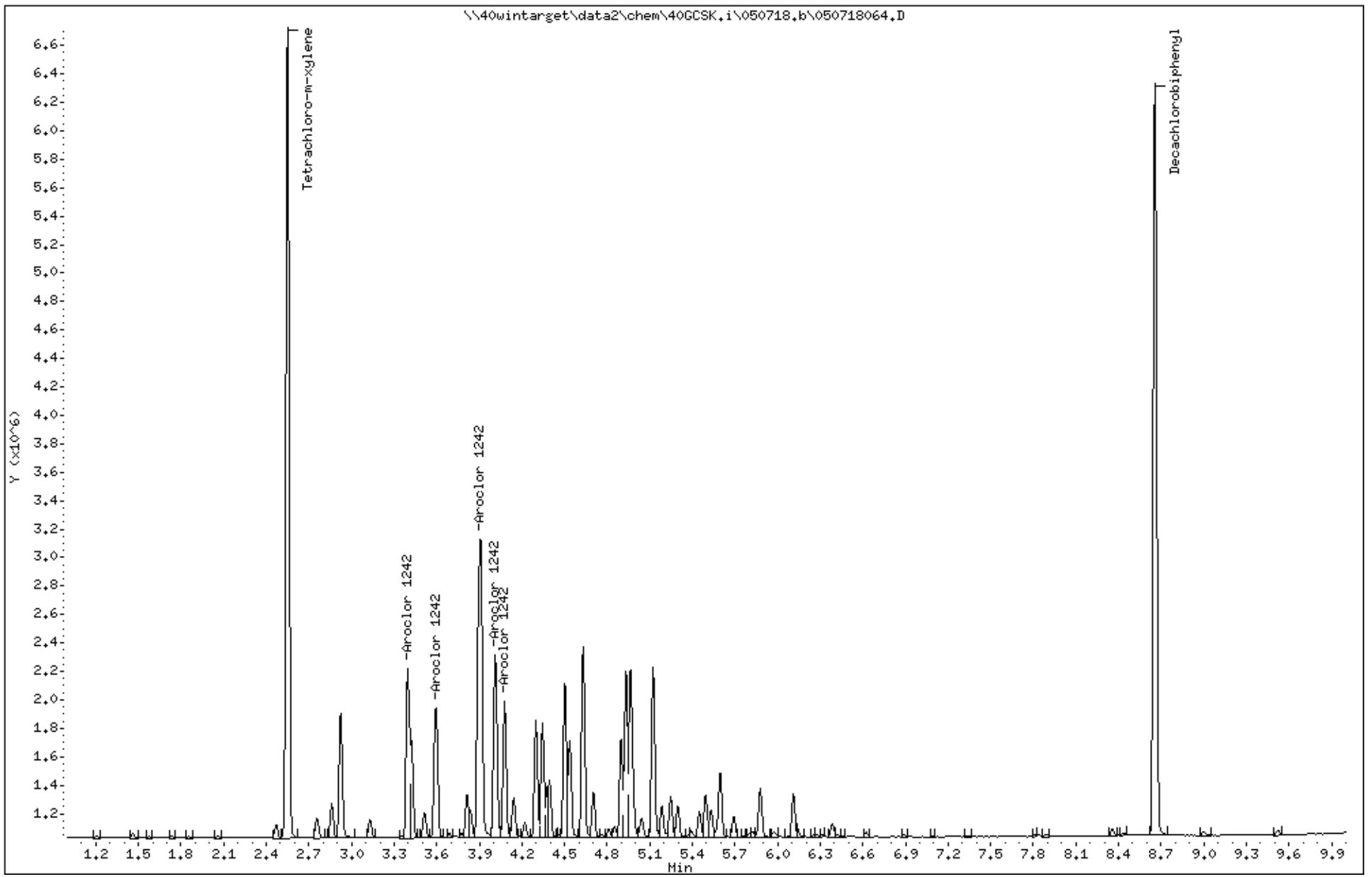
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Date : 08-MAY-2018 05:57
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSK.i

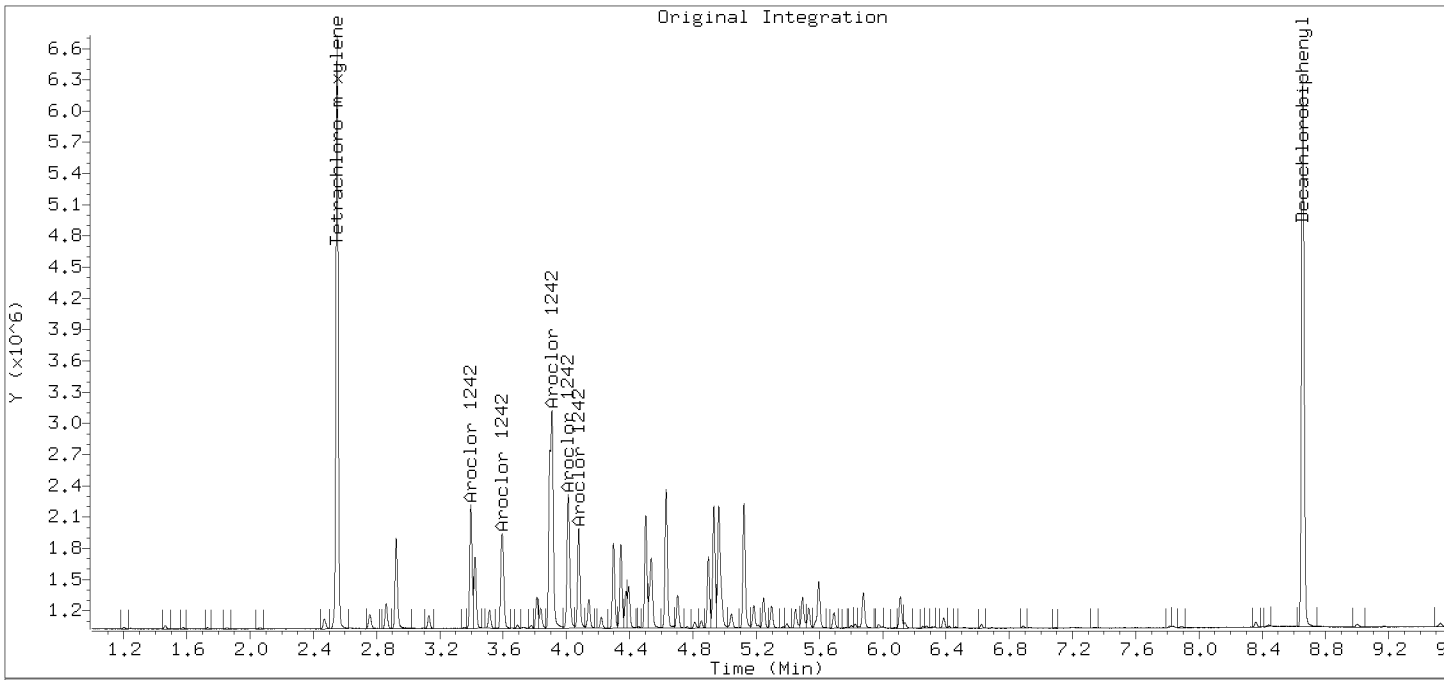
Operator: BLM

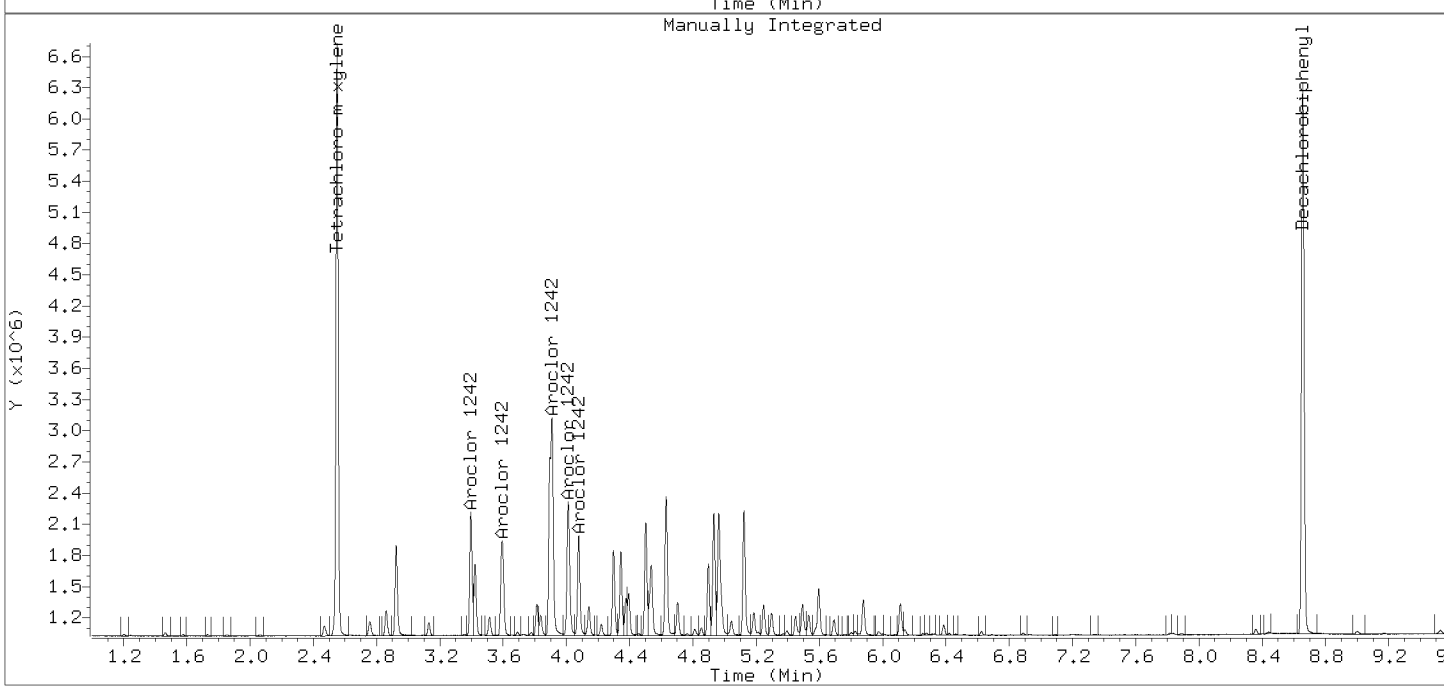
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718064.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 08-MAY-2018 05:57 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1242 | 1251855 | 1261621 | BA |
| Aroclor 1242 | 1251855 | 1261621 | BA |
| Aroclor 1242 | 1251855 | 1261621 | BA |
| Aroclor 1242 | 1251855 | 1261621 | BA |
| Aroclor 1242 | 1251855 | 1261621 | BA |
| Tetrachloro-m-xylene | 5675704 | 5675704 | |
| Decachlorobiphenyl | 6164796 | 6164796 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV  Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 76  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.207 | 56657 | 50255 | 0.887 | 0.12 | | |
| 1.247 | 14005 | 12482 | 0.891 | 0.03 | | |
| 1.467 | 40884 | 32976 | 0.807 | 0.08 | | |
| 1.579 | 20183 | 14268 | 0.707 | 0.04 | | |
| 1.732 | 16409 | 17056 | 1.039 | 0.03 | | |
| 2.063 | 34760 | 26514 | 0.763 | 0.07 | | |
| 2.469 | 24915 | 19650 | 0.789 | 0.05 | | |
| 2.551 | 5751061 | 5725502 | 0.996 | 12.36 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 21486 | 20530 | 0.955 | 0.04 | | |
| 2.859 | 113833 | 105526 | 0.927 | 0.24 | | |
| 2.924 | 189885 | 173371 | 0.913 | 0.40 | | |
| 3.093 | 21841 | 17975 | 0.823 | 0.04 | | |
| 3.132 | 56595 | 51632 | 0.912 | 0.12 | | |
| 3.396 | 709158 | 698730 | 0.985 | 1.52 | | |
| 3.423 | 303554 | 285021 | 0.939 | 0.65 | | |
| 3.514 | 62856 | 58589 | 0.932 | 0.13 | | |
| 3.595 | 590475 | 433208 | 0.734 | 1.27 | | |
| 3.692 | 35046 | 37038 | 1.057 | 0.07 | | |
| 3.813 | 130294 | 128679 | 0.988 | 0.28 | | |
| 3.838 | 61781 | 54823 | 0.887 | 0.13 | | |
| 3.895 | 1100608 | 1239591 | 1.126 | 2.36 | | |
| 3.908 | 1353945 | 1296551 | 0.958 | 2.91 | | |
| 4.013 | 928162 | 706343 | 0.761 | 1.99 | | |
| 4.078 | 617714 | 574887 | 0.931 | 1.32 | | |
| 4.143 | 364867 | 330183 | 0.905 | 0.78 | | |
| 4.222 | 142425 | 133917 | 0.940 | 0.30 | | |
| 4.298 | 1533706 | 1428539 | 0.931 | 3.29 | | |
| 4.345 | 1231419 | 1162789 | 0.944 | 2.64 | 6 Aroclor 1248 | BA |
| 4.377 | 511428 | 528054 | 1.033 | 1.09 | | |
| 4.394 | 536004 | 520846 | 0.972 | 1.15 | | |
| 4.502 | 1856241 | 1750715 | 0.943 | 3.99 | | |
| 4.538 | 950202 | 806506 | 0.849 | 2.04 | | |
| 4.631 | 2142917 | 1969566 | 0.919 | 4.60 | 6 Aroclor 1248 | BA |
| 4.675 | 30644 | 32873 | 1.073 | 0.06 | | |
| 4.704 | 488997 | 460667 | 0.942 | 1.05 | | |
| 4.764 | 25103 | 20319 | 0.809 | 0.05 | | |
| 4.812 | 61103 | 48104 | 0.787 | 0.13 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.854 | 111732 | 105300 | 0.942 | 0.24 | |
| 4.898 | 1100290 | 1050495 | 0.955 | 2.36 | 6 Aroclor 1248 |
| 4.933 | 2133965 | 1993487 | 0.934 | 4.58 | |
| 4.964 | 2750728 | 1819360 | 0.661 | 5.91 | 6 Aroclor 1248 |
| 5.043 | 308858 | 258458 | 0.837 | 0.66 | |
| 5.124 | 1962227 | 1788981 | 0.912 | 4.22 | 6 Aroclor 1248 |
| 5.185 | 611286 | 553848 | 0.906 | 1.31 | |
| 5.213 | 66521 | 71242 | 1.071 | 0.14 | |
| 5.247 | 814919 | 754906 | 0.926 | 1.75 | |
| 5.298 | 595136 | 531074 | 0.892 | 1.28 | |
| 5.370 | 38040 | 36256 | 0.953 | 0.08 | |
| 5.396 | 122522 | 106164 | 0.866 | 0.26 | |
| 5.450 | 530110 | 456954 | 0.862 | 1.14 | |
| 5.494 | 862368 | 762949 | 0.885 | 1.85 | |
| 5.533 | 526591 | 476723 | 0.905 | 1.13 | |
| 5.597 | 1440106 | 1215572 | 0.844 | 3.09 | |
| 5.691 | 402004 | 377320 | 0.939 | 0.86 | |
| 5.763 | 56021 | 44966 | 0.803 | 0.12 | |
| 5.801 | 79396 | 66580 | 0.839 | 0.17 | |
| 5.826 | 108537 | 92840 | 0.855 | 0.23 | |
| 5.848 | 34192 | 40510 | 1.185 | 0.07 | |
| 5.878 | 1012889 | 870576 | 0.859 | 2.17 | |
| 5.975 | 133667 | 84738 | 0.634 | 0.28 | |
| 6.081 | 32392 | 29423 | 0.908 | 0.06 | |
| 6.111 | 873931 | 784769 | 0.898 | 1.87 | |
| 6.140 | 168424 | 142643 | 0.847 | 0.36 | |
| 6.257 | 86172 | 57980 | 0.673 | 0.18 | |
| 6.313 | 52045 | 30594 | 0.588 | 0.11 | |
| 6.388 | 260189 | 224606 | 0.863 | 0.55 | |
| 6.419 | 45003 | 41679 | 0.926 | 0.09 | |
| 6.460 | 38737 | 32188 | 0.831 | 0.08 | |
| 6.513 | 28399 | 20674 | 0.728 | 0.06 | |
| 6.598 | 43294 | 41531 | 0.959 | 0.09 | |
| 6.626 | 99541 | 75054 | 0.754 | 0.21 | |
| 6.692 | 14353 | 12911 | 0.900 | 0.03 | |
| 6.804 | 42085 | 37486 | 0.891 | 0.09 | |
| 6.846 | 22186 | 20485 | 0.923 | 0.04 | |
| 6.889 | 50681 | 44472 | 0.877 | 0.10 | |
| 6.927 | 22222 | 15705 | 0.707 | 0.04 | |
| 7.091 | 74361 | 71504 | 0.962 | 0.15 | |
| 7.338 | 31989 | 31314 | 0.979 | 0.06 | |
| 7.366 | 9666 | 9845 | 1.019 | 0.02 | |
| 7.474 | 31835 | 29897 | 0.939 | 0.06 | |
| 7.529 | 35999 | 32095 | 0.892 | 0.07 | |
| 7.815 | 17601 | 20045 | 1.139 | 0.03 | |
| 7.837 | 27990 | 19821 | 0.708 | 0.06 | |
| 7.887 | 14038 | 12531 | 0.893 | 0.03 | |
| 7.986 | 32339 | 29293 | 0.906 | 0.06 | |
| 8.362 | 70540 | 60666 | 0.860 | 0.15 | |
| 8.440 | 35045 | 22583 | 0.644 | 0.07 | |
| 8.657 | 6218859 | 5380816 | 0.865 | 13.80 | $ 12 Decachlorobiphenyl |
| 9.001 | 39137 | 24334 | 0.622 | 0.08 | |
| 9.530 | 41583 | 24657 | 0.593 | 0.08 | |
| | 46493902 | 41915175 | | 100.000 | |

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV  Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 76  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1248.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5751060 | 0.05000 | 0.048 | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1231418 | 0.50000 | 0.52 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 2142917 | 0.50000 | 0.50 | 0.00- 20.00 | 174.02 | BA |
| 4.898 | 4.898 | 0.000 | 1100290 | 0.50000 | 0.54 | 0.00- 20.00 | 89.35 | BA |
| 4.964 | 4.963 | 0.001 | 2750727 | 0.50000 | 0.50 | 0.00- 20.00 | 223.38 | BA |
| 5.123 | 5.123 | 0.000 | 1962227 | 0.50000 | 0.52 | 0.00- 20.00 | 159.35 | BA |
| Average of Peak Amounts = | | | | | 0.51600 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6218858 | 0.05000 | 0.047 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

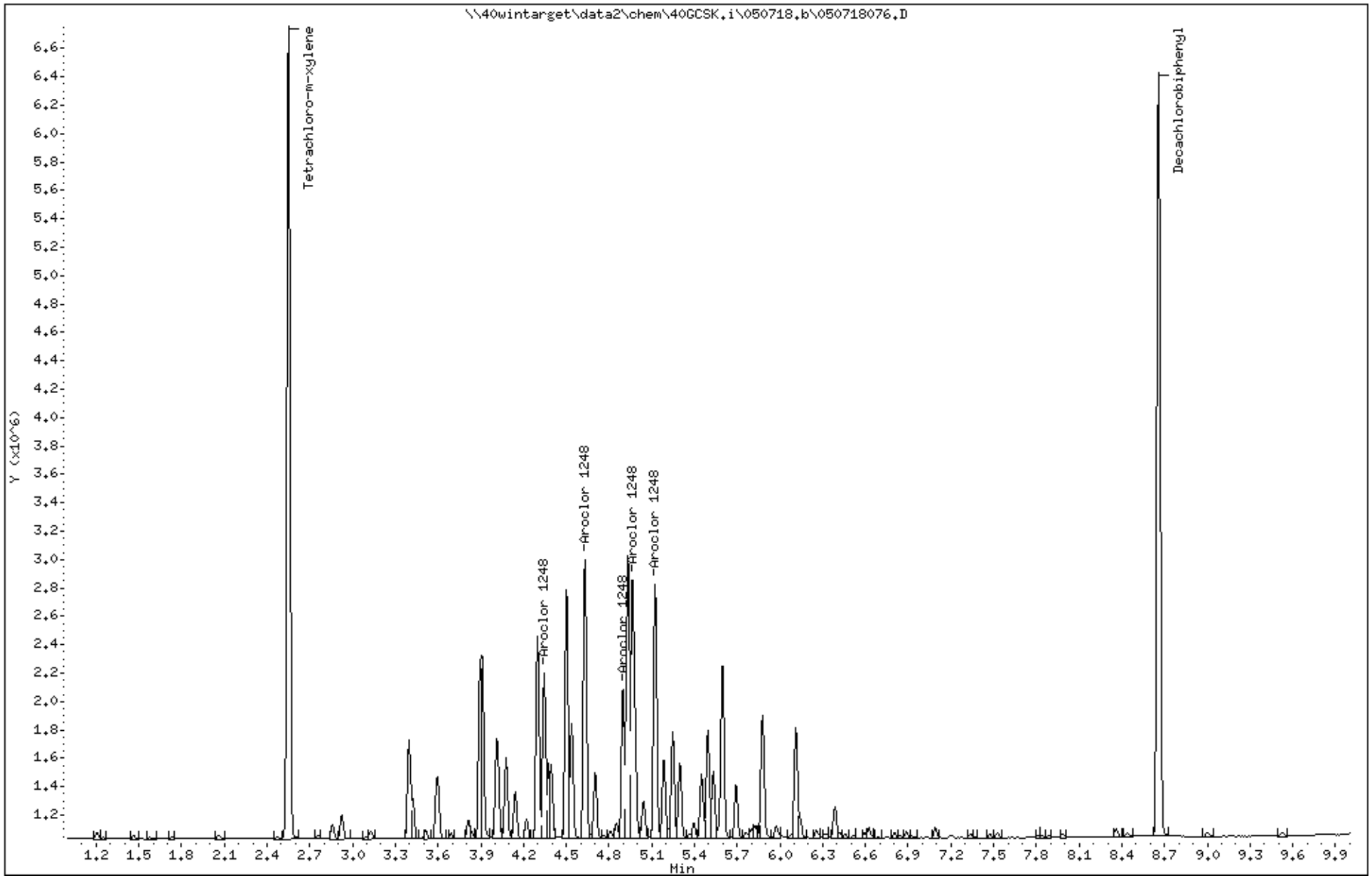
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Date : 08-MAY-2018 14:04
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

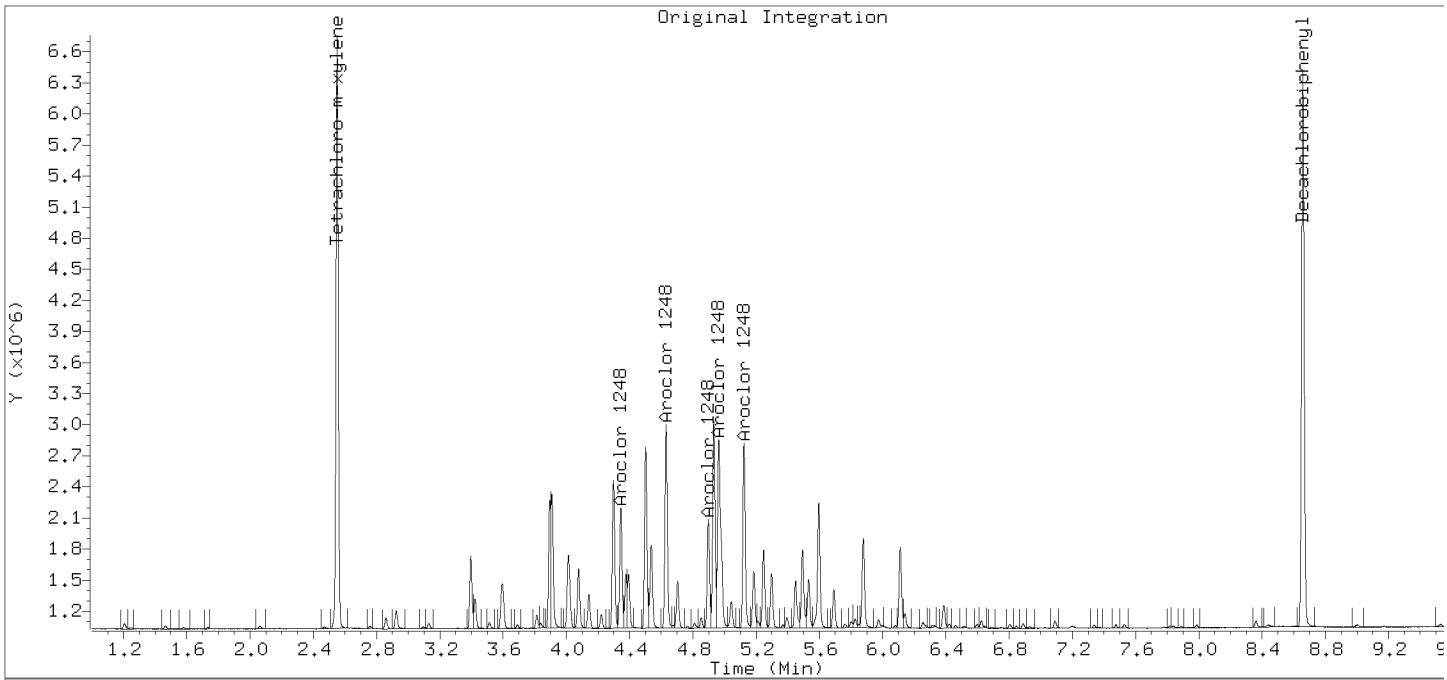
Operator: BLM

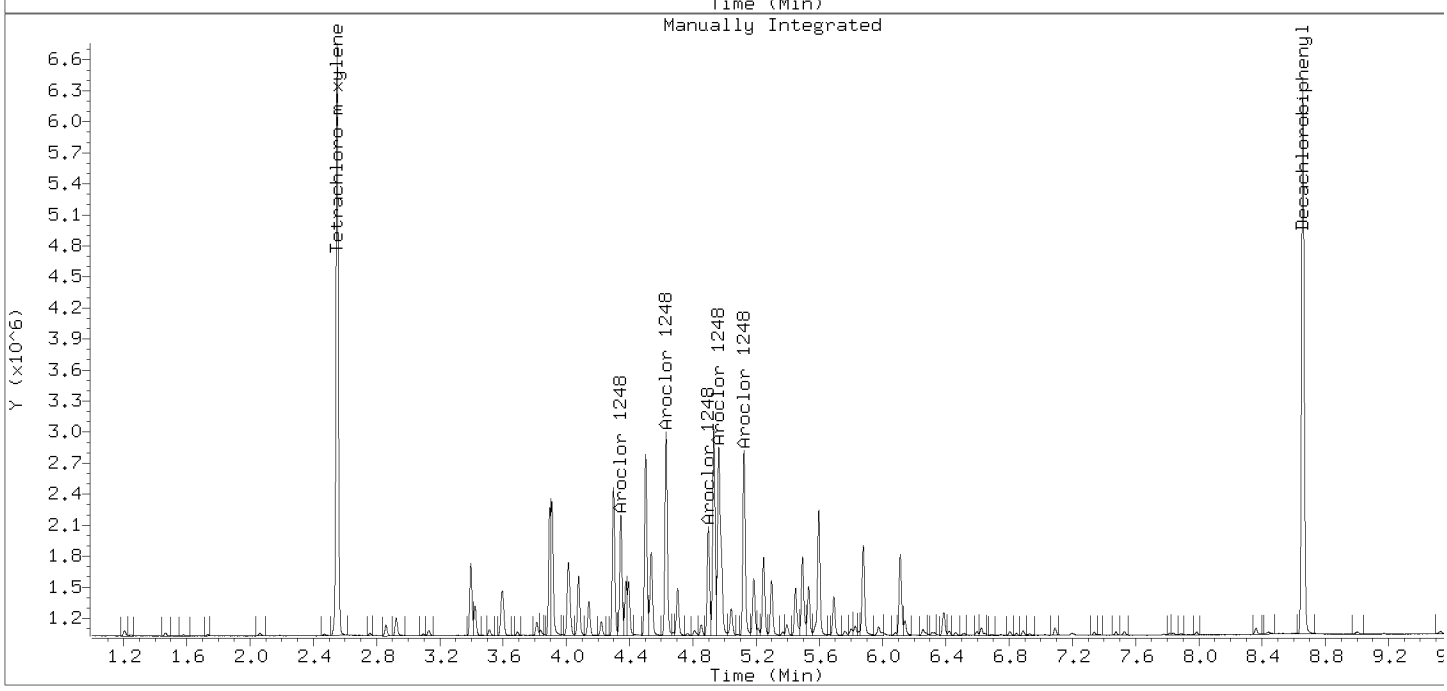
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718076.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 08-MAY-2018 14:04 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1248 | 1218609 | 1231418 | BA |
| Aroclor 1248 | 1218609 | 1231418 | BA |
| Aroclor 1248 | 1218609 | 1231418 | BA |
| Aroclor 1248 | 1218609 | 1231418 | BA |
| Aroclor 1248 | 1218609 | 1231418 | BA |
| Tetrachloro-m-xylene | 5751060 | 5751060 | |
| Decachlorobiphenyl | 6218858 | 6218858 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718088.D
Lab Smp Id: 1254-CCV  Client Smp ID: 1254-CCV
Inj Date : 08-MAY-2018 17:14
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 88  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.203 | 10693 | 10145 | 0.949 | 0.01 | | |
| 1.245 | 10656 | 12901 | 1.211 | 0.01 | | |
| 1.463 | 37498 | 35060 | 0.935 | 0.06 | | |
| 1.578 | 13390 | 13572 | 1.014 | 0.02 | | |
| 1.730 | 25580 | 22700 | 0.887 | 0.04 | | |
| 2.549 | 5992400 | 6091032 | 1.016 | 10.32 | $ 2 Tetrachloro-m-xylene | |
| 2.857 | 86269 | 84674 | 0.982 | 0.14 | | |
| 2.925 | 20065 | 18290 | 0.912 | 0.03 | | |
| 3.128 | 21990 | 18785 | 0.854 | 0.03 | | |
| 3.396 | 30308 | 30656 | 1.011 | 0.05 | | |
| 3.421 | 15927 | 16992 | 1.067 | 0.02 | | |
| 3.593 | 35419 | 24550 | 0.693 | 0.06 | | |
| 3.691 | 38378 | 36878 | 0.961 | 0.06 | | |
| 3.895 | 67935 | 48901 | 0.720 | 0.11 | | |
| 4.018 | 59402 | 43899 | 0.739 | 0.10 | | |
| 4.076 | 25331 | 24345 | 0.961 | 0.04 | | |
| 4.136 | 44752 | 35875 | 0.802 | 0.07 | | |
| 4.298 | 1317252 | 1233178 | 0.936 | 2.27 | | |
| 4.344 | 368740 | 348611 | 0.945 | 0.63 | | |
| 4.376 | 104578 | 59856 | 0.572 | 0.18 | | |
| 4.502 | 790668 | 768331 | 0.972 | 1.36 | | |
| 4.538 | 76797 | 71804 | 0.935 | 0.13 | | |
| 4.630 | 360069 | 329332 | 0.915 | 0.62 | | |
| 4.676 | 17679 | 16705 | 0.945 | 0.03 | | |
| 4.703 | 66252 | 60547 | 0.914 | 0.11 | | |
| 4.766 | 16232 | 17271 | 1.064 | 0.02 | | |
| 4.854 | 23361 | 21918 | 0.938 | 0.04 | | |
| 4.898 | 314030 | 301316 | 0.960 | 0.54 | | |
| 4.932 | 1224790 | 1143975 | 0.934 | 2.11 | | |
| 4.980 | 2564245 | 2063171 | 0.805 | 4.42 | | |
| 5.042 | 416080 | 383640 | 0.922 | 0.71 | | |
| 5.124 | 265775 | 237400 | 0.893 | 0.45 | | |
| 5.185 | 1510553 | 1354767 | 0.897 | 2.60 | | |
| 5.247 | 2821331 | 2553221 | 0.905 | 4.86 | 7 Aroclor 1254 | BA |
| 5.297 | 1298770 | 1187226 | 0.914 | 2.23 | | |
| 5.369 | 68961 | 65397 | 0.948 | 0.11 | | |
| 5.395 | 229244 | 211885 | 0.924 | 0.39 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 5.449 | 1122600 | 1048984 | 0.934 | 1.93 | |
| 5.493 | 2353131 | 2113151 | 0.898 | 4.05 | 7 Aroclor 1254 |
| 5.532 | 795561 | 730517 | 0.918 | 1.37 | |
| 5.565 | 279822 | 277272 | 0.991 | 0.48 | |
| 5.596 | 4213387 | 3893636 | 0.924 | 7.26 | 7 Aroclor 1254 |
| 5.663 | 39104 | 33485 | 0.856 | 0.06 | |
| 5.691 | 582026 | 548606 | 0.943 | 1.00 | |
| 5.760 | 370699 | 348640 | 0.940 | 0.63 | |
| 5.799 | 576901 | 390614 | 0.677 | 0.99 | |
| 5.827 | 379964 | 303432 | 0.799 | 0.65 | |
| 5.876 | 4400612 | 3584450 | 0.815 | 7.58 | |
| 5.972 | 379056 | 304699 | 0.804 | 0.65 | |
| 6.014 | 197696 | 126661 | 0.641 | 0.34 | |
| 6.079 | 360221 | 344148 | 0.955 | 0.62 | |
| 6.113 | 2799810 | 2333047 | 0.833 | 4.82 | 7 Aroclor 1254 |
| 6.141 | 1951890 | 1661705 | 0.851 | 3.36 | |
| 6.255 | 793010 | 675438 | 0.852 | 1.36 | |
| 6.312 | 329226 | 332433 | 1.010 | 0.56 | |
| 6.328 | 344828 | 305573 | 0.886 | 0.59 | |
| 6.385 | 3705043 | 3189032 | 0.861 | 6.38 | 7 Aroclor 1254 |
| 6.420 | 640672 | 606441 | 0.947 | 1.10 | |
| 6.461 | 359993 | 311224 | 0.865 | 0.62 | |
| 6.524 | 93138 | 53516 | 0.575 | 0.16 | |
| 6.597 | 140132 | 138178 | 0.986 | 0.24 | |
| 6.623 | 1253170 | 1040377 | 0.830 | 2.16 | |
| 6.690 | 186374 | 158017 | 0.848 | 0.32 | |
| 6.748 | 30144 | 26596 | 0.882 | 0.05 | |
| 6.805 | 241088 | 215942 | 0.896 | 0.41 | |
| 6.847 | 143679 | 129459 | 0.901 | 0.24 | |
| 6.888 | 735530 | 684289 | 0.930 | 1.26 | |
| 6.928 | 177501 | 137778 | 0.776 | 0.30 | |
| 7.027 | 65691 | 56611 | 0.862 | 0.11 | |
| 7.091 | 467531 | 446388 | 0.955 | 0.80 | |
| 7.122 | 35638 | 28125 | 0.789 | 0.06 | |
| 7.161 | 21258 | 19123 | 0.900 | 0.03 | |
| 7.338 | 414359 | 387785 | 0.936 | 0.71 | |
| 7.369 | 80190 | 76870 | 0.959 | 0.13 | |
| 7.419 | 11191 | 8546 | 0.764 | 0.01 | |
| 7.474 | 17985 | 17345 | 0.964 | 0.03 | |
| 7.528 | 33540 | 25376 | 0.757 | 0.05 | |
| 7.636 | 28016 | 24448 | 0.873 | 0.04 | |
| 7.777 | 12938 | 13399 | 1.036 | 0.02 | |
| 7.816 | 20481 | 16896 | 0.825 | 0.03 | |
| 7.884 | 11325 | 12046 | 1.064 | 0.01 | |
| 7.985 | 30824 | 22733 | 0.738 | 0.05 | |
| 8.361 | 66483 | 53989 | 0.812 | 0.11 | |
| 8.437 | 13571 | 10251 | 0.755 | 0.02 | |
| 8.657 | 6296133 | 5443140 | 0.865 | 11.24 | $ 12 Decachlorobiphenyl |
| 9.528 | 17510 | 13770 | 0.786 | 0.03 | |
| | 58012063 | 51722987 | | 100.000 | |

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718088.D
Lab Smp Id: 1254-CCV  Client Smp ID: 1254-CCV
Inj Date : 08-MAY-2018 17:14
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 88  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1254.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5992400 | 0.05000 | 0.050 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 2821330 | 0.50000 | 0.50 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 2353130 | 0.50000 | 0.50 | 0.00- 20.00 | 83.40 | BA |
| 5.596 | 5.596 | 0.000 | 4213386 | 0.50000 | 0.49 | 0.00- 20.00 | 149.34 | BA |
| 6.112 | 6.113 | -0.001 | 2799809 | 0.50000 | 0.53 | 0.00- 20.00 | 99.24 | BA |
| 6.385 | 6.387 | -0.002 | 3705042 | 0.50000 | 0.51 | 0.00- 20.00 | 131.32 | BA |
| Average of Peak Amounts = | | | | | 0.50600 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6296133 | 0.05000 | 0.047 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

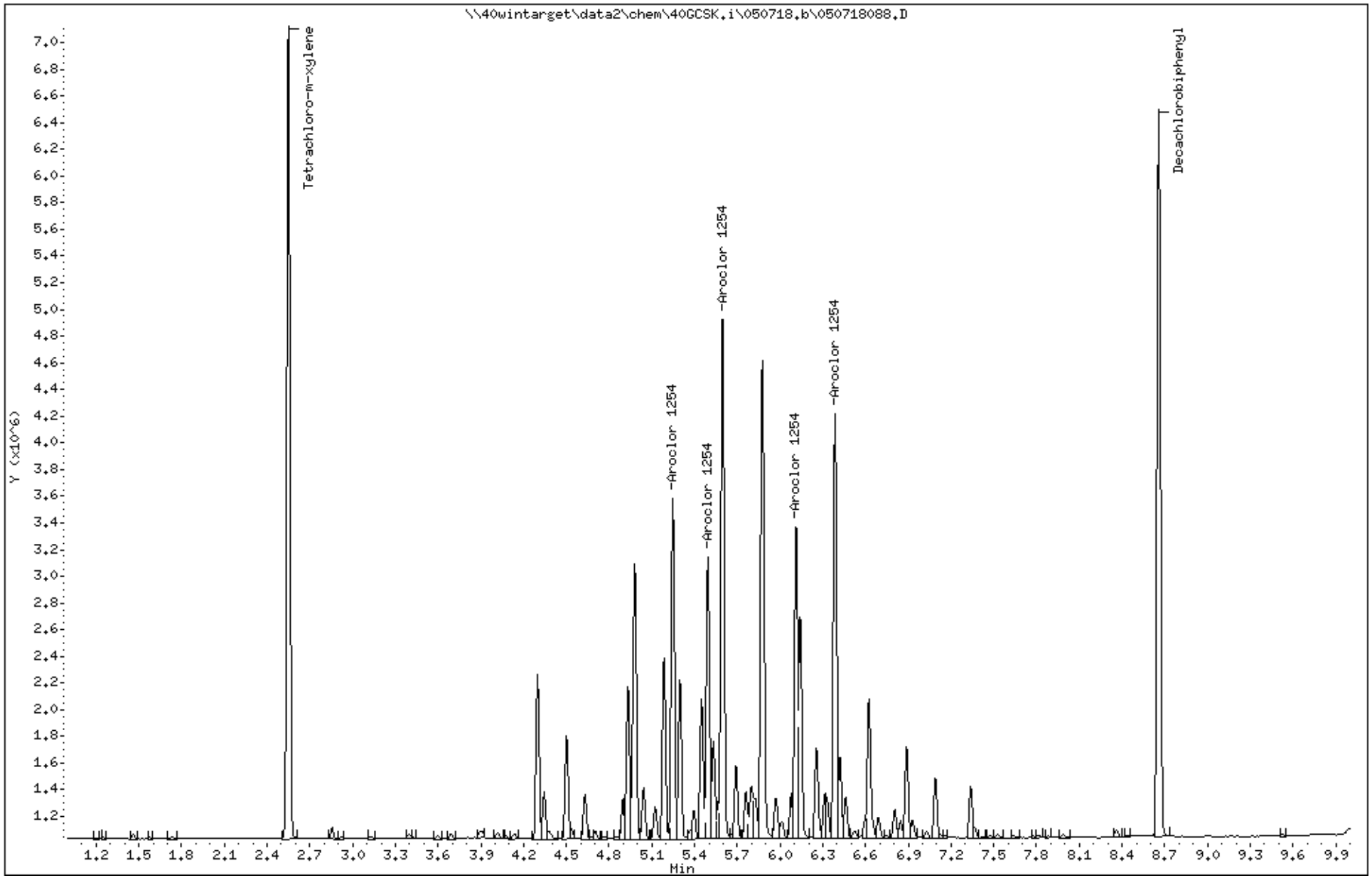
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718088.D
Date : 08-MAY-2018 17:14
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSK.i

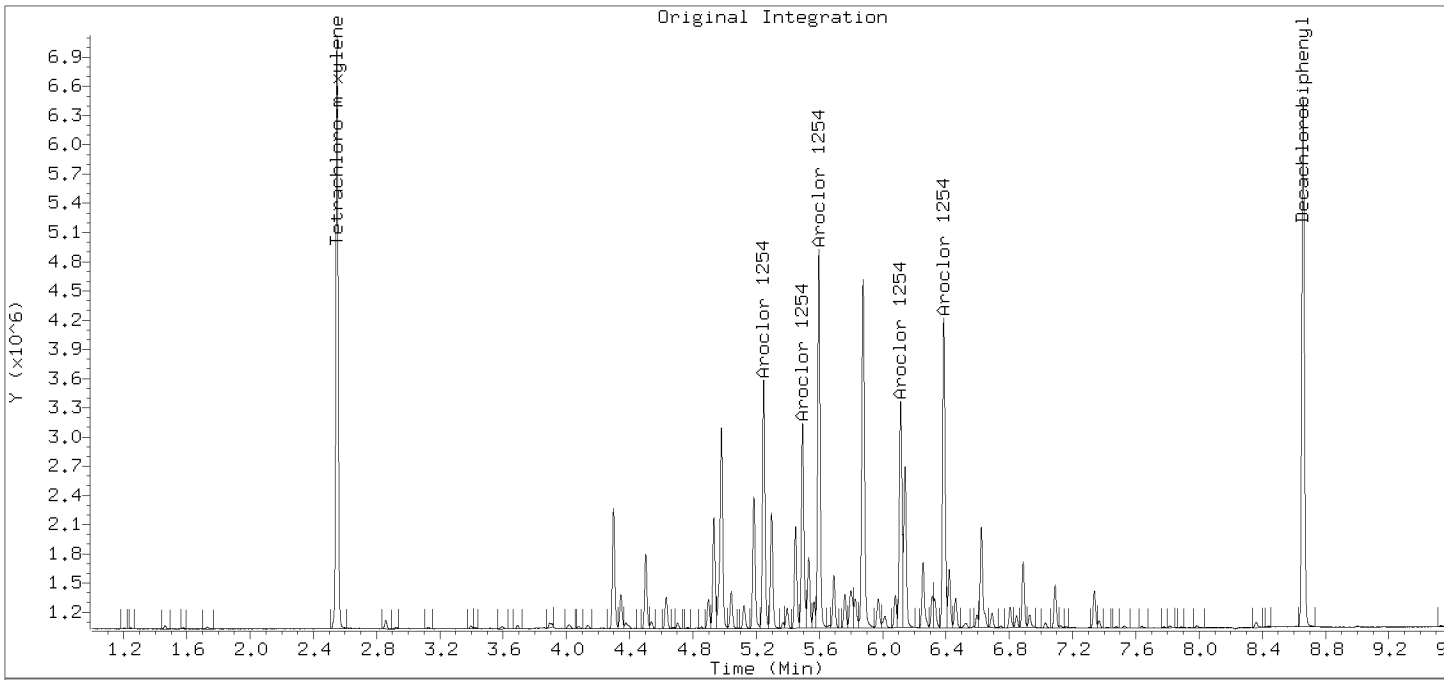
Operator: BLM

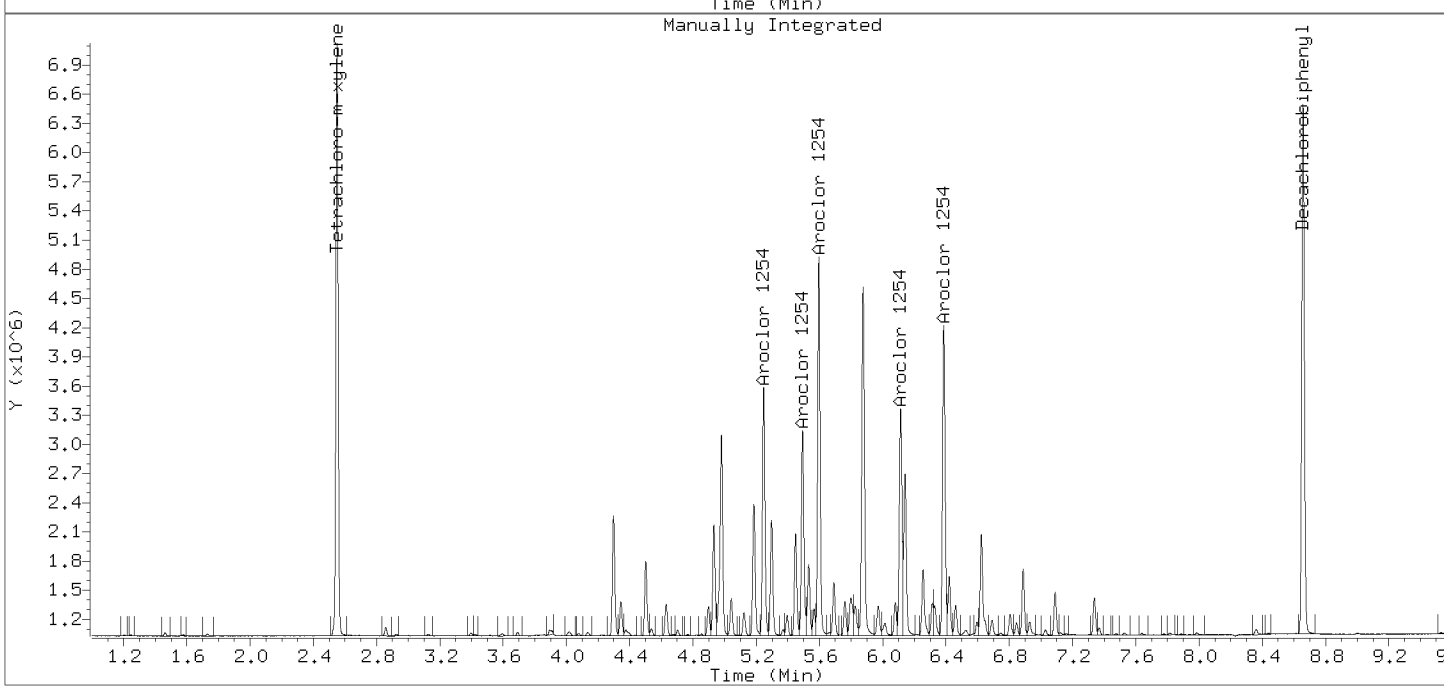
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718088.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 08-MAY-2018 17:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1254 | 2807584 | 2821330 | BA |
| Aroclor 1254 | 2807584 | 2821330 | BA |
| Aroclor 1254 | 2807584 | 2821330 | BA |
| Aroclor 1254 | 2807584 | 2821330 | BA |
| Aroclor 1254 | 2807584 | 2821330 | BA |
| Tetrachloro-m-xylene | 5992400 | 5992400 | |
| Decachlorobiphenyl | 6296133 | 6296133 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718098.D
Lab Smp Id: 1660-CCV  Client Smp ID: 1660-CCV
Inj Date : 08-MAY-2018 19:53
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i  Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 98  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 24128 | 22805 | 0.945 | 0.02 | | |
| 1.463 | 31000 | 31271 | 1.009 | 0.03 | | |
| 1.575 | 14013 | 14640 | 1.045 | 0.01 | | |
| 1.731 | 31137 | 27236 | 0.875 | 0.03 | | |
| 1.852 | 15534 | 13584 | 0.874 | 0.01 | | |
| 2.063 | 16032 | 12919 | 0.806 | 0.01 | | |
| 2.470 | 130300 | 103960 | 0.798 | 0.15 | | |
| 2.550 | 5499691 | 5465201 | 0.994 | 6.40 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 188636 | 153080 | 0.812 | 0.21 | | |
| 2.860 | 284096 | 262217 | 0.923 | 0.33 | | |
| 2.924 | 1056026 | 987196 | 0.935 | 1.22 | | |
| 3.097 | 11203 | 11032 | 0.985 | 0.01 | | |
| 3.131 | 152808 | 143565 | 0.940 | 0.17 | | |
| 3.356 | 25753 | 19423 | 0.754 | 0.02 | | |
| 3.396 | 1453395 | 1355408 | 0.933 | 1.69 | 5 Aroclor 1016 | BA |
| 3.423 | 853191 | 788785 | 0.925 | 0.99 | | |
| 3.515 | 232850 | 212023 | 0.911 | 0.27 | | |
| 3.594 | 1449298 | 1062013 | 0.733 | 1.68 | 5 Aroclor 1016 | BA |
| 3.690 | 39260 | 39459 | 1.005 | 0.04 | | |
| 3.723 | 23877 | 16134 | 0.676 | 0.02 | | |
| 3.777 | 40013 | 39209 | 0.980 | 0.04 | | |
| 3.813 | 373637 | 366699 | 0.981 | 0.43 | | |
| 3.837 | 273800 | 238860 | 0.872 | 0.31 | | |
| 3.909 | 4326991 | 2520209 | 0.582 | 5.03 | 5 Aroclor 1016 | BA |
| 4.012 | 1839222 | 1517496 | 0.825 | 2.14 | 5 Aroclor 1016 | BA |
| 4.079 | 1235767 | 1150044 | 0.931 | 1.43 | 5 Aroclor 1016 | BA |
| 4.143 | 375559 | 323968 | 0.863 | 0.43 | | |
| 4.221 | 142061 | 125765 | 0.885 | 0.16 | | |
| 4.298 | 1075002 | 992810 | 0.924 | 1.25 | | |
| 4.345 | 965027 | 909325 | 0.942 | 1.12 | | |
| 4.376 | 403283 | 422063 | 1.047 | 0.46 | | |
| 4.394 | 509997 | 472624 | 0.927 | 0.59 | | |
| 4.455 | 32535 | 25460 | 0.783 | 0.03 | | |
| 4.502 | 1317685 | 1241143 | 0.942 | 1.53 | | |
| 4.537 | 1022016 | 757882 | 0.742 | 1.19 | | |
| 4.631 | 1689599 | 1530143 | 0.906 | 1.96 | | |
| 4.672 | 21656 | 23298 | 1.076 | 0.02 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.703 | 380728 | 351012 | 0.922 | 0.44 | |
| 4.766 | 28239 | 19752 | 0.699 | 0.03 | |
| 4.811 | 62018 | 51947 | 0.838 | 0.07 | |
| 4.852 | 59603 | 51534 | 0.865 | 0.06 | |
| 4.898 | 320336 | 303985 | 0.949 | 0.37 | |
| 4.933 | 500213 | 469779 | 0.939 | 0.58 | |
| 4.980 | 1547419 | 1142966 | 0.739 | 1.80 | |
| 5.043 | 103111 | 81786 | 0.793 | 0.12 | |
| 5.124 | 93704 | 82239 | 0.878 | 0.10 | |
| 5.186 | 326419 | 289987 | 0.888 | 0.38 | |
| 5.248 | 1299952 | 1228007 | 0.945 | 1.51 | |
| 5.297 | 59434 | 50186 | 0.844 | 0.06 | |
| 5.392 | 14312 | 12592 | 0.880 | 0.01 | |
| 5.451 | 94054 | 78722 | 0.837 | 0.10 | |
| 5.494 | 352654 | 334825 | 0.949 | 0.41 | |
| 5.534 | 14999 | 14993 | 1.000 | 0.01 | |
| 5.566 | 501360 | 485194 | 0.968 | 0.58 | |
| 5.597 | 902116 | 858181 | 0.951 | 1.05 | |
| 5.692 | 18491 | 15987 | 0.865 | 0.02 | |
| 5.761 | 1322572 | 1241271 | 0.939 | 1.54 | |
| 5.796 | 934608 | 519148 | 0.555 | 1.08 | |
| 5.873 | 3267349 | 2835634 | 0.868 | 3.80 | |
| 5.970 | 219981 | 201808 | 0.917 | 0.25 | |
| 6.016 | 103973 | 91592 | 0.881 | 0.12 | |
| 6.080 | 569840 | 558030 | 0.979 | 0.66 | |
| 6.117 | 1245854 | 1239125 | 0.995 | 1.45 | |
| 6.142 | 3756511 | 3238682 | 0.862 | 4.37 | |
| 6.255 | 2372427 | 1545606 | 0.651 | 2.76 | |
| 6.344 | 527173 | 302796 | 0.574 | 0.61 | |
| 6.386 | 4608909 | 3881852 | 0.842 | 5.36 | 8 Aroclor 1260 |
| 6.420 | 634735 | 579891 | 0.914 | 0.73 | |
| 6.462 | 150135 | 123781 | 0.824 | 0.17 | |
| 6.519 | 463466 | 412362 | 0.890 | 0.53 | |
| 6.573 | 100444 | 127614 | 1.270 | 0.11 | |
| 6.596 | 2205039 | 1958313 | 0.888 | 2.56 | |
| 6.624 | 432939 | 445502 | 1.029 | 0.50 | |
| 6.647 | 1370545 | 1253515 | 0.915 | 1.59 | |
| 6.690 | 151095 | 128214 | 0.849 | 0.17 | |
| 6.748 | 428285 | 389784 | 0.910 | 0.49 | |
| 6.805 | 2382039 | 2172959 | 0.912 | 2.77 | |
| 6.847 | 1343187 | 1206542 | 0.898 | 1.56 | |
| 6.890 | 1141709 | 1022937 | 0.896 | 1.32 | |
| 6.926 | 197020 | 172870 | 0.877 | 0.22 | |
| 6.955 | 93866 | 86774 | 0.924 | 0.10 | |
| 7.000 | 143931 | 140053 | 0.973 | 0.16 | |
| 7.029 | 482041 | 454086 | 0.942 | 0.56 | |
| 7.091 | 5387589 | 4961841 | 0.921 | 6.27 | 8 Aroclor 1260 |
| 7.121 | 350279 | 317468 | 0.906 | 0.40 | |
| 7.160 | 157055 | 131128 | 0.835 | 0.18 | |
| 7.209 | 224408 | 190405 | 0.848 | 0.26 | |
| 7.339 | 2662735 | 2463324 | 0.925 | 3.10 | 8 Aroclor 1260 |
| 7.369 | 708687 | 627861 | 0.886 | 0.82 | |
| 7.476 | 1270954 | 1076627 | 0.847 | 1.47 | |
| 7.528 | 1544045 | 1422128 | 0.921 | 1.79 | 8 Aroclor 1260 |
| 7.639 | 115494 | 101977 | 0.883 | 0.13 | |
| 7.778 | 636225 | 586353 | 0.922 | 0.74 | |
| 7.815 | 101796 | 73368 | 0.721 | 0.11 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.886 | 64642 | 55569 | 0.860 | 0.07 | |
| 7.987 | 1460423 | 1319989 | 0.904 | 1.70 | 8 Aroclor 1260 |
| 8.051 | 101450 | 84211 | 0.830 | 0.11 | |
| 8.361 | 384220 | 340779 | 0.887 | 0.44 | |
| 8.438 | 41024 | 25040 | 0.610 | 0.04 | |
| 8.658 | 6035436 | 5165605 | 0.856 | 7.56 | $ 12 Decachlorobiphenyl |
| 9.003 | 57136 | 36501 | 0.639 | 0.06 | |
| 9.527 | 70023 | 45450 | 0.649 | 0.08 | |
| | 85878534 | 74678988 | | 100.000 | |

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718098.D
Lab Smp Id: 1660-CCV  Client Smp ID: 1660-CCV
Inj Date : 08-MAY-2018 19:53
Operator : BLM  Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i  Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26  Cal File: 050318065.D
Als bottle: 98  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon  Compound Sublist: AR1660.sub
Target Version: RC10A  Sample Matrix: None

| RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5499690 | 0.05000 | 0.046 | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| 3.396 | 3.395 | 0.001 | 1453395 | 0.50000 | 0.48 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1449298 | 0.50000 | 0.46 | 0.00- 20.00 | 99.72 | BA |
| 3.909 | 3.909 | 0.000 | 4326990 | 0.50000 | 0.46 | 0.00- 20.00 | 297.72 | BA |
| 4.012 | 4.011 | 0.001 | 1839222 | 0.50000 | 0.46 | 0.00- 20.00 | 126.55 | BA |
| 4.078 | 4.078 | 0.000 | 1235767 | 0.50000 | 0.46 | 0.00- 20.00 | 85.03 | BA |
| Average of Peak Amounts = | | | | | 0.46400 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 4608909 | 0.50000 | 0.46 | 0.00- 20.00 | 100.00(M) | BA |
| 7.091 | 7.090 | 0.001 | 5387589 | 0.50000 | 0.46 | 0.00- 20.00 | 116.90 | BA |
| 7.338 | 7.338 | 0.000 | 2662734 | 0.50000 | 0.47 | 0.00- 20.00 | 57.77 | BA |
| 7.528 | 7.529 | -0.001 | 1544044 | 0.50000 | 0.45 | 0.00- 20.00 | 33.50 | BA |
| 7.987 | 7.987 | 0.000 | 1460423 | 0.50000 | 0.46 | 0.00- 20.00 | 31.69 | BA |
| Average of Peak Amounts = | | | | | 0.46000 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6035435 | 0.05000 | 0.045 | | | |

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718098.D



Date : 08-MAY-2018 19:53

Client ID: 1660-CCV

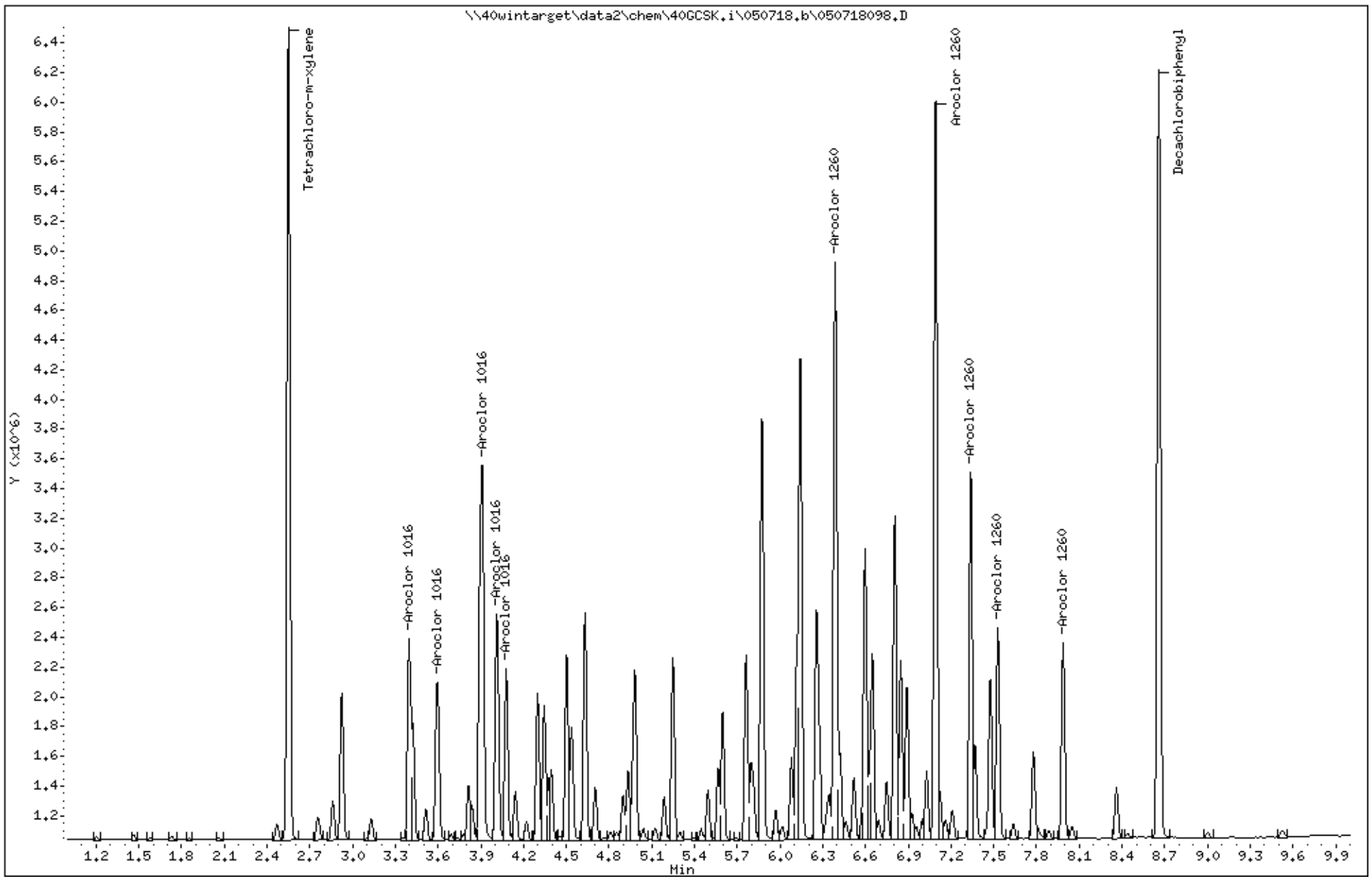
Instrument: 40GCSK.i

Sample Info: 1660-CCV, 185559:1

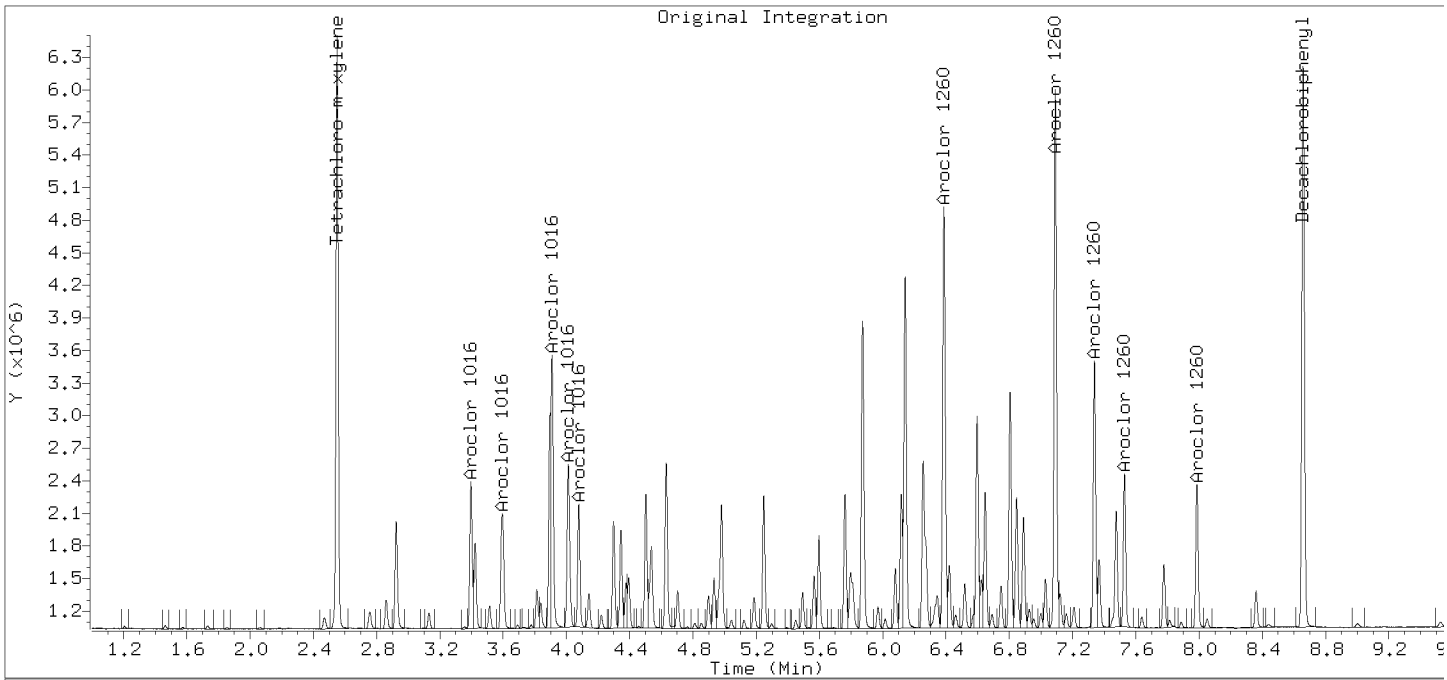
Operator: BLM

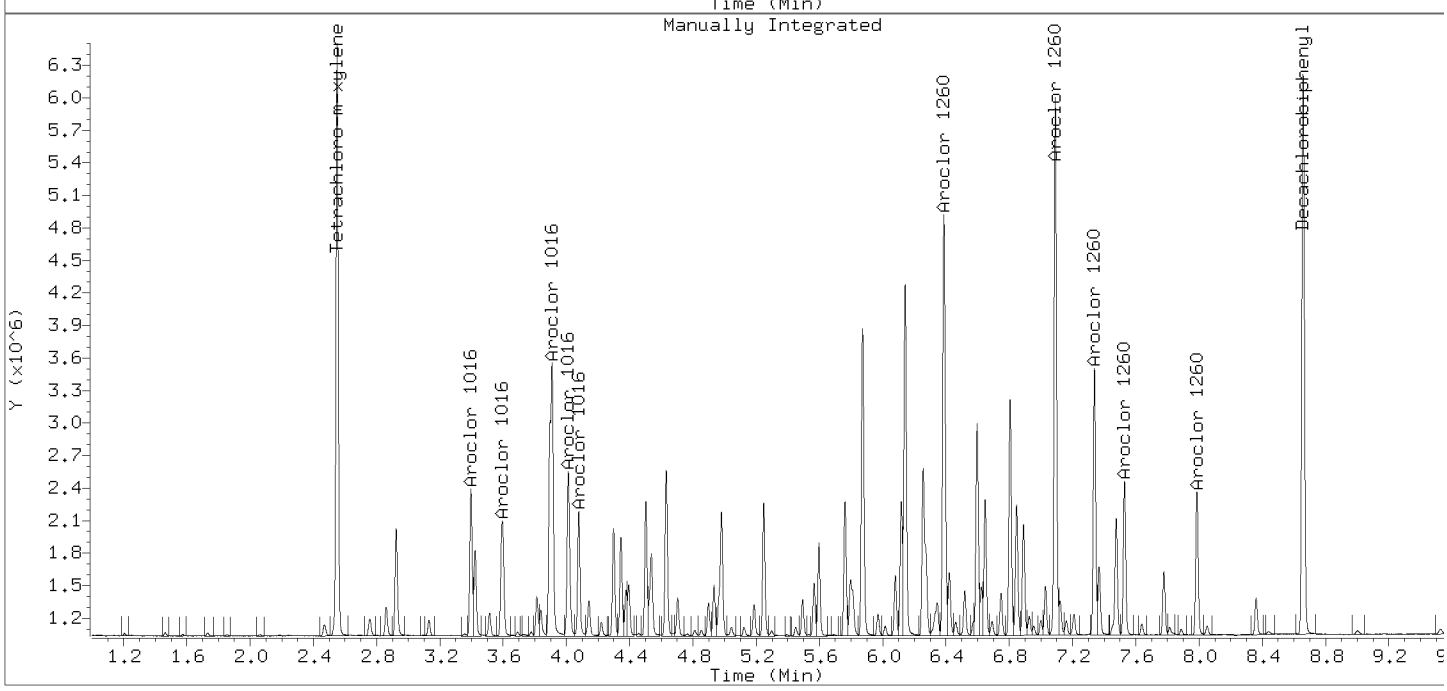
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718098.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 08-MAY-2018 19:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CCV




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1437341 | 1453395 | BA |
| Aroclor 1016 | 1437341 | 1453395 | BA |
| Aroclor 1016 | 1437341 | 1453395 | BA |
| Aroclor 1016 | 1437341 | 1453395 | BA |
| Aroclor 1016 | 1437341 | 1453395 | BA |
| Aroclor 1260 | 4593801 | 4608909 | BA |
| Aroclor 1260 | 4593801 | 4608909 | BA |
| Aroclor 1260 | 4593801 | 4608909 | BA |
| Aroclor 1260 | 4593801 | 4608909 | BA |
| Aroclor 1260 | 4593801 | 4608909 | BA |
| Tetrachloro-m-xylene | 5499690 | 5499690 | |
| Decachlorobiphenyl | 6035435 | 6035435 | |

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681428

Date Analyzed: 05/07/2018 14:38

Lab File ID: 050718.B\050718006.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <11.4 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718006.D
Lab Smp Id: 1681428 Client Smp ID: MB
Inj Date : 07-MAY-2018 14:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681428,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 15915 | 14949 | 0.939 | 0.08 | | |
| 1.733 | 20427 | 18156 | 0.889 | 0.10 | | |
| 2.063 | 10564 | 10334 | 0.978 | 0.05 | | |
| 2.259 | 15425 | 13122 | 0.851 | 0.07 | | |
| 2.551 | 8431564 | 8575220 | 1.017 | 42.75 | $ 2 Tetrachloro-m-xylene | |
| 2.859 | 20284 | 18432 | 0.909 | 0.10 | | |
| 4.133 | 26266 | 25782 | 0.982 | 0.13 | | |
| 4.319 | 21982 | 15895 | 0.723 | 0.11 | | |
| 5.763 | 10483 | 7249 | 0.692 | 0.05 | | |
| 6.275 | 14700 | 10064 | 0.685 | 0.07 | | |
| 6.513 | 15907 | 11492 | 0.722 | 0.08 | | |
| 7.194 | 34769 | 18392 | 0.529 | 0.17 | | |
| 7.813 | 26474 | 28278 | 1.068 | 0.13 | | |
| 7.838 | 35438 | 24359 | 0.687 | 0.17 | | |
| 7.884 | 12684 | 12748 | 1.005 | 0.06 | | |
| 8.360 | 83979 | 78889 | 0.939 | 0.42 | | |
| 8.440 | 49633 | 30822 | 0.621 | 0.25 | | |
| 8.656 | 10685703 | 9118828 | 0.853 | 54.27 | $ 12 Decachlorobiphenyl | |
| 8.998 | 78809 | 51696 | 0.656 | 0.39 | | |
| 9.525 | 110033 | 66010 | 0.600 | 0.55 | | |
| | 19721039 | 18150717 | | 100.000 | | |

Total unknown % area = 3.0

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718006.D
Lab Smp Id: 1681428 Client Smp ID: MB
Inj Date : 07-MAY-2018 14:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681428,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

---

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.551 | 2.549 | 0.002 | 8431564 | 0.07001 | 35 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

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| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

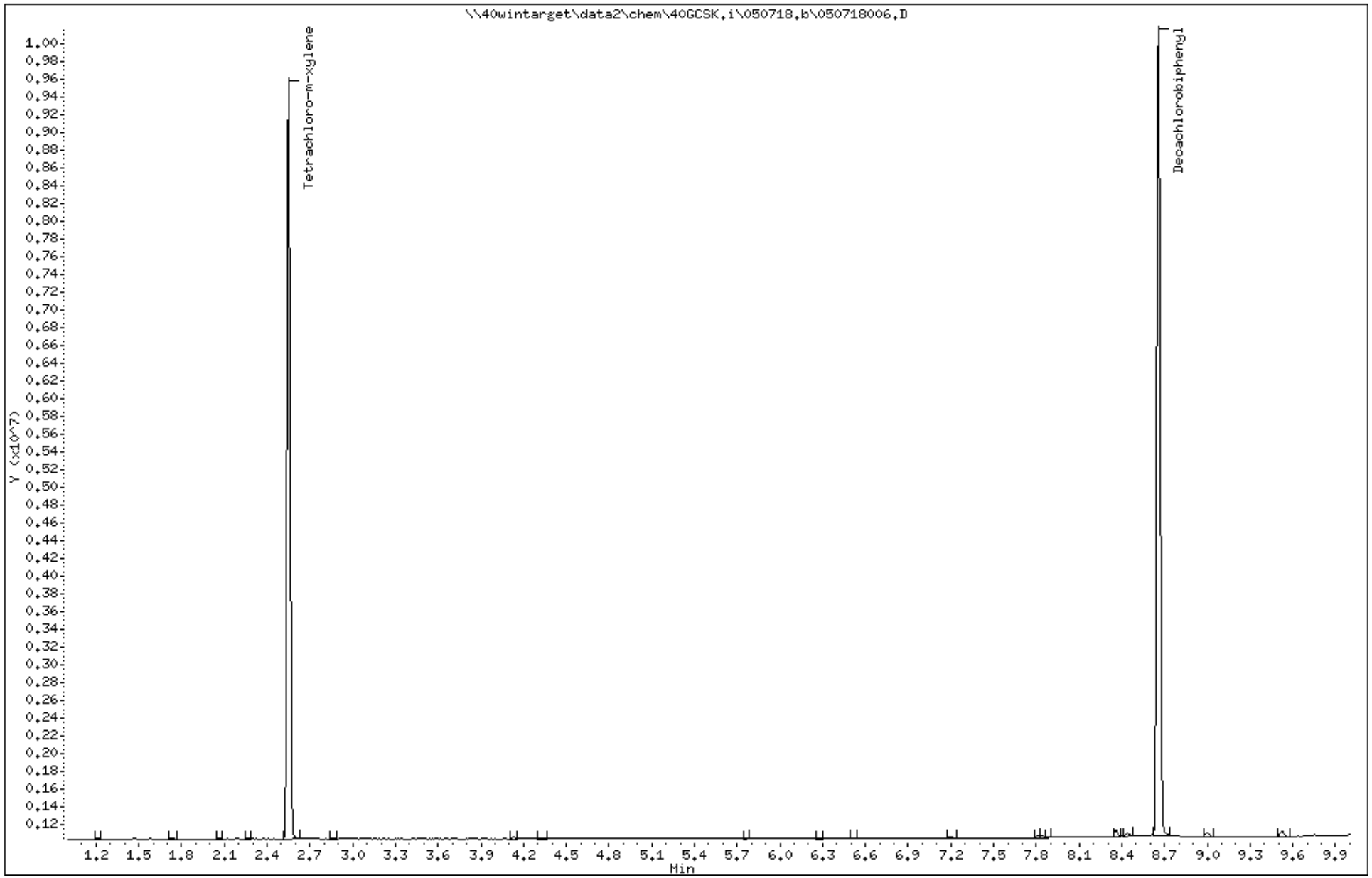
---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8.656 | 8.657 | -0.001 | 10685703 | 0.08023 | 40 | | | |

---

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718006.D
Date : 07-MAY-2018 14:38
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1681428,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 14:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681428

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 8431564 | 8431564 | |
| Decachlorobiphenyl | 10685703 | 10685703 | |

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681429

Date Analyzed: 05/07/2018 14:54

Lab File ID: 050718.B\050718007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | 236 | |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Lab Smp Id: 1681429 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 14:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681429,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 12302 | 10929 | 0.888 | 0.02 | | |
| 1.466 | 11744 | 11878 | 1.011 | 0.02 | | |
| 1.733 | 24263 | 21138 | 0.871 | 0.05 | | |
| 1.852 | 10233 | 10283 | 1.005 | 0.02 | | |
| 2.261 | 19315 | 17321 | 0.897 | 0.04 | | |
| 2.471 | 111625 | 86699 | 0.777 | 0.24 | | |
| 2.551 | 9319067 | 9553716 | 1.025 | 20.08 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 161798 | 129148 | 0.798 | 0.34 | | |
| 2.863 | 195571 | 182316 | 0.932 | 0.42 | | |
| 2.924 | 896451 | 825817 | 0.921 | 1.93 | | |
| 2.988 | 11973 | 9596 | 0.801 | 0.02 | | |
| 3.130 | 108680 | 104768 | 0.964 | 0.23 | | |
| 3.356 | 16490 | 14420 | 0.874 | 0.03 | | |
| 3.396 | 1159272 | 1095284 | 0.945 | 2.49 | 3 Aroclor 1242 | BA |
| 3.423 | 686686 | 629480 | 0.917 | 1.48 | | |
| 3.514 | 189900 | 164948 | 0.869 | 0.40 | | |
| 3.594 | 1151458 | 834035 | 0.724 | 2.48 | 3 Aroclor 1242 | BA |
| 3.729 | 19144 | 15001 | 0.784 | 0.04 | | |
| 3.778 | 33381 | 32169 | 0.964 | 0.07 | | |
| 3.814 | 294355 | 286192 | 0.972 | 0.63 | | |
| 3.837 | 209334 | 186506 | 0.891 | 0.45 | | |
| 3.909 | 3441414 | 1903510 | 0.553 | 7.41 | 3 Aroclor 1242 | BA |
| 4.012 | 1473863 | 1178510 | 0.800 | 3.17 | 3 Aroclor 1242 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.078 | 967709 | 882691 | 0.912 | 2.08 | 3 Aroclor 1242 |
| 4.143 | 296443 | 248890 | 0.840 | 0.63 | |
| 4.221 | 108893 | 99419 | 0.913 | 0.23 | |
| 4.298 | 807255 | 765472 | 0.948 | 1.74 | |
| 4.345 | 764659 | 721268 | 0.943 | 1.64 | |
| 4.377 | 322468 | 321440 | 0.997 | 0.69 | |
| 4.394 | 389396 | 355748 | 0.914 | 0.83 | |
| 4.459 | 30619 | 18715 | 0.611 | 0.06 | |
| 4.502 | 1047848 | 976822 | 0.932 | 2.25 | |
| 4.537 | 824299 | 617085 | 0.749 | 1.77 | |
| 4.631 | 1367729 | 1197509 | 0.876 | 2.94 | |
| 4.703 | 319099 | 273424 | 0.857 | 0.68 | |
| 4.764 | 28116 | 18319 | 0.652 | 0.06 | |
| 4.812 | 71830 | 56768 | 0.790 | 0.15 | |
| 4.854 | 75113 | 68475 | 0.912 | 0.16 | |
| 4.898 | 626155 | 598612 | 0.956 | 1.34 | |
| 4.932 | 1127245 | 1046045 | 0.928 | 2.42 | |
| 4.964 | 1467722 | 1044457 | 0.712 | 3.16 | |
| 5.043 | 178398 | 125385 | 0.703 | 0.38 | |
| 5.124 | 1205106 | 1062471 | 0.882 | 2.59 | |
| 5.185 | 254894 | 191684 | 0.752 | 0.54 | |
| 5.247 | 285198 | 247263 | 0.867 | 0.61 | |
| 5.297 | 223905 | 178638 | 0.798 | 0.48 | |
| 5.397 | 45207 | 39948 | 0.884 | 0.09 | |
| 5.449 | 189021 | 149911 | 0.793 | 0.40 | |
| 5.493 | 295637 | 246449 | 0.834 | 0.63 | |
| 5.531 | 185516 | 159571 | 0.860 | 0.39 | |
| 5.596 | 497209 | 369579 | 0.743 | 1.07 | |
| 5.691 | 158239 | 128560 | 0.812 | 0.34 | |
| 5.761 | 26829 | 18230 | 0.679 | 0.05 | |
| 5.804 | 27620 | 22873 | 0.828 | 0.05 | |
| 5.826 | 42275 | 32502 | 0.769 | 0.09 | |
| 5.878 | 336982 | 258082 | 0.766 | 0.72 | |
| 5.976 | 39843 | 30370 | 0.762 | 0.08 | |
| 6.112 | 252666 | 221450 | 0.876 | 0.54 | |
| 6.253 | 23537 | 16488 | 0.701 | 0.05 | |
| 6.387 | 73666 | 60929 | 0.827 | 0.15 | |
| 6.424 | 11558 | 11644 | 1.007 | 0.02 | |
| 6.594 | 9828 | 11279 | 1.148 | 0.02 | |
| 6.625 | 16419 | 16361 | 0.996 | 0.03 | |
| 6.803 | 11469 | 11705 | 1.021 | 0.02 | |
| 6.847 | 10366 | 7364 | 0.710 | 0.02 | |
| 6.888 | 15507 | 13048 | 0.841 | 0.03 | |
| 7.090 | 18701 | 16547 | 0.885 | 0.04 | |
| 7.338 | 9960 | 9224 | 0.926 | 0.02 | |
| 7.816 | 38190 | 28435 | 0.745 | 0.08 | |
| 7.884 | 18975 | 14954 | 0.788 | 0.04 | |
| 8.359 | 98220 | 81891 | 0.834 | 0.21 | |
| 8.442 | 24369 | 15058 | 0.618 | 0.05 | |
| 8.657 | 11480790 | 9977491 | 0.869 | 25.11 | $ 12 Decachlorobiphenyl |
| 9.000 | 37375 | 22446 | 0.601 | 0.08 | |
| 9.526 | 45921 | 27673 | 0.603 | 0.09 | |
| | 46390311 | 40440326 | | 100.000 | |

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Lab Smp Id: 1681429 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 14:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681429,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 9319066 | 0.07737 | 39 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1159271 | 0.47897 | 240 | 0.00- 20.00 | 100.00(M) | BA |
| 3.594 | 3.592 | 0.002 | 1151457 | 0.46784 | 230 | 0.00- 20.00 | 99.33 | BA |
| 3.908 | 3.909 | -0.001 | 3441413 | 0.47432 | 240 | 0.00- 20.00 | 296.86 | BA |
| 4.012 | 4.011 | 0.001 | 1473862 | 0.47296 | 240 | 0.00- 20.00 | 127.14 | BA |
| 4.078 | 4.078 | 0.000 | 967709 | 0.46229 | 230 | 0.00- 20.00 | 83.48 | BA |
| Average of Peak Concentrations = | | | | | 240 | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | |
|---|---|---|---|---|---|---|
| 8.656 | 8.657 | -0.001 | 11480790 | 0.08620 | 43 | |

---

QC Flag Legend

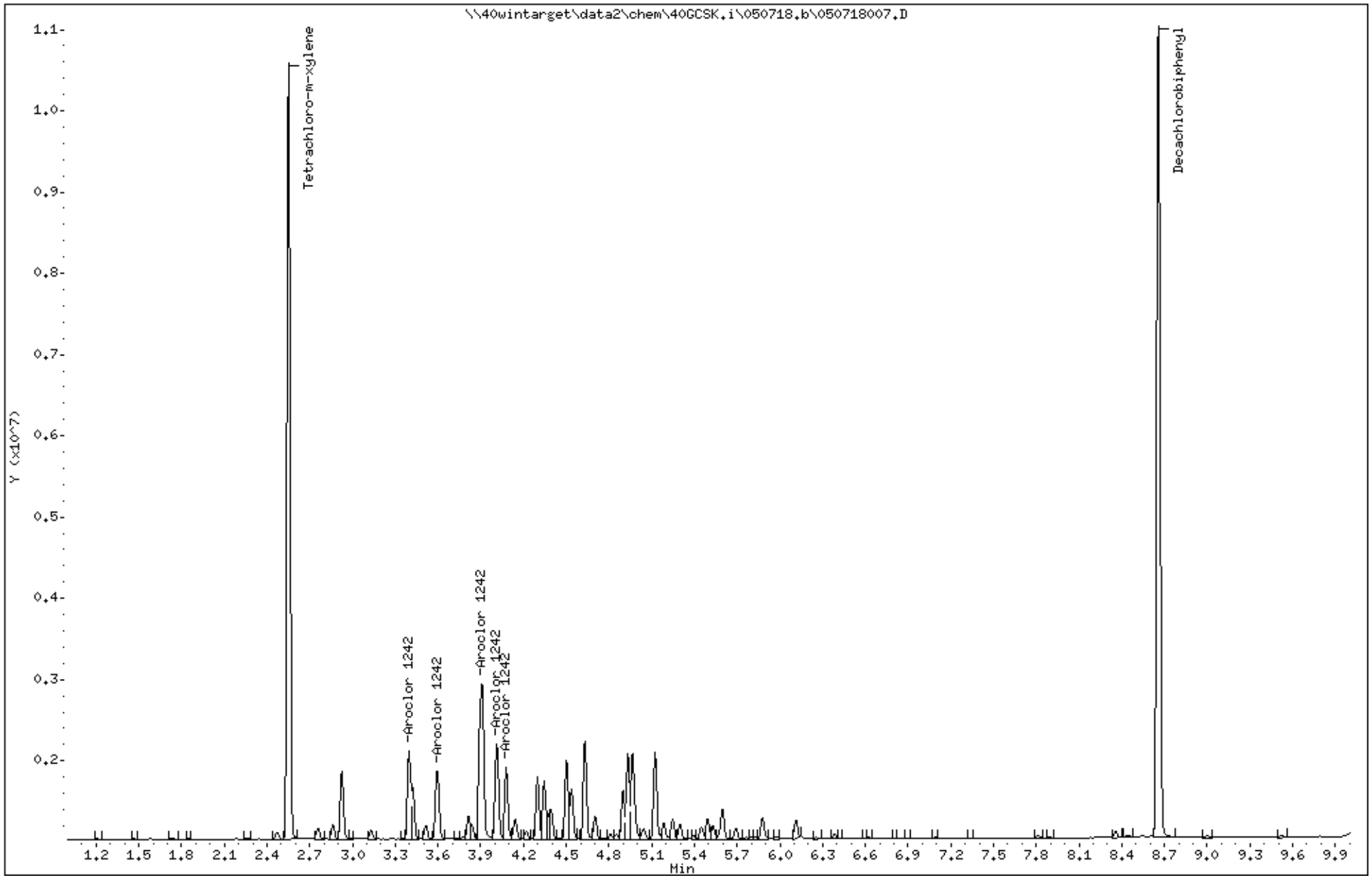
M - Compound response manually integrated.

Review Codes Legend

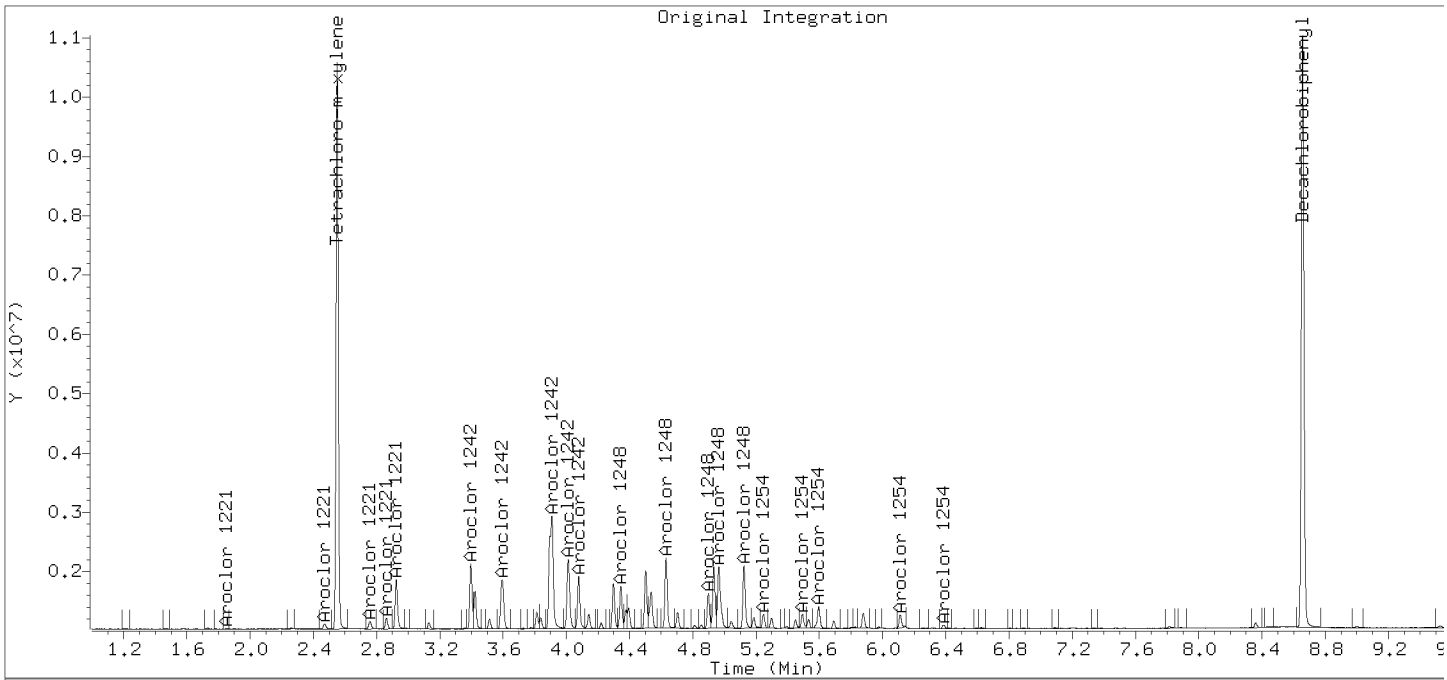
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

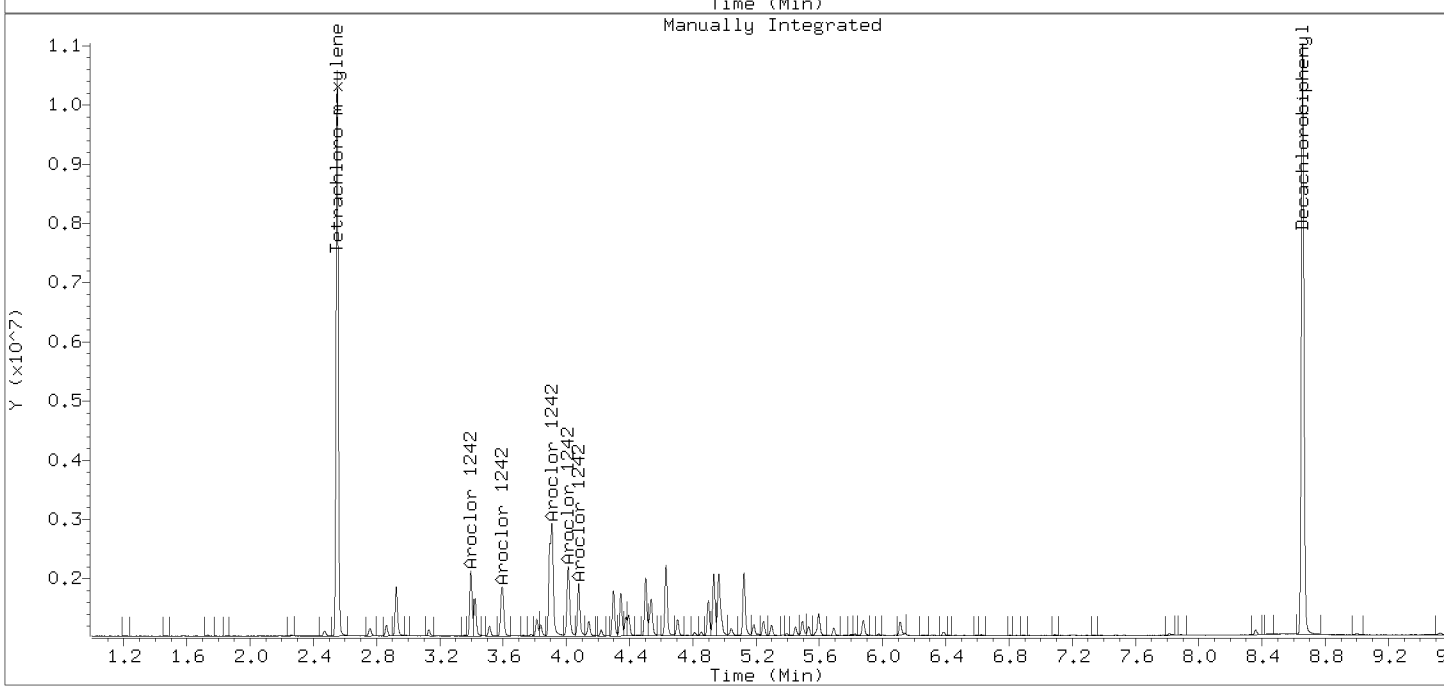
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Date : 07-MAY-2018 14:54
Client ID: MBLCS
Sample Info: 1681429,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 14:54 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681429




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1145209 | 0 | |
| Aroclor 1016 | 1145209 | 0 | |
| Aroclor 1016 | 1145209 | 0 | |
| Aroclor 1016 | 1145209 | 0 | |
| Aroclor 1016 | 1145209 | 0 | |
| Aroclor 1221 | 10233 | 0 | |
| Aroclor 1221 | 10233 | 0 | |
| Aroclor 1221 | 10233 | 0 | |
| Aroclor 1221 | 10233 | 0 | |
| Aroclor 1221 | 10233 | 0 | |
| Aroclor 1232 | 896451 | 0 | |
| Aroclor 1232 | 896451 | 0 | |
| Aroclor 1232 | 896451 | 0 | |
| Aroclor 1232 | 896451 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 896451 | 0 | |
| Aroclor 1242 | 1145209 | 1159271 | BA |
| Aroclor 1242 | 1145209 | 1159271 | BA |
| Aroclor 1242 | 1145209 | 1159271 | BA |
| Aroclor 1242 | 1145209 | 1159271 | BA |
| Aroclor 1242 | 1145209 | 1159271 | BA |
| Aroclor 1248 | 744406 | 0 | |
| Aroclor 1248 | 744406 | 0 | |
| Aroclor 1248 | 744406 | 0 | |
| Aroclor 1248 | 744406 | 0 | |
| Aroclor 1248 | 744406 | 0 | |
| Aroclor 1254 | 256844 | 0 | |
| Aroclor 1254 | 256844 | 0 | |
| Aroclor 1254 | 256844 | 0 | |
| Aroclor 1254 | 256844 | 0 | |
| Aroclor 1254 | 256844 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 9319066 | 9319066 | |
| Decachlorobiphenyl | 11480790 | 11480790 | |

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 1681434
Date Analyzed: 05/07/2018 20:58
Lab File ID: 050718.B\050718030.D
Initial wt/vol: 10.0092 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <56.9 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 291 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <56.9 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <56.9 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 922 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 347 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 102 | J |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718030.D
Lab Smp Id: 1681434 Client Smp ID: SW4-170830-01-GOSH-
Inj Date : 07-MAY-2018 20:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681434 x5,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 30 QC Sample: FIELDDUP
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.009 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 1.204 | 26746 | 23996 | 0.897 | 0.07 | | | |
| 1.820 | 19698 | 21373 | 1.085 | 0.05 | | | |
| 1.851 | 17855 | 14701 | 0.823 | 0.04 | | 1 Aroclor 1221 | BA |
| 2.057 | 20614 | 17265 | 0.838 | 0.05 | | | |
| 2.475 | 247389 | 198766 | 0.803 | 0.68 | | 1 Aroclor 1221 | BA |
| 2.549 | 2374201 | 2388267 | 1.006 | 6.54 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.756 | 21218 | 17323 | 0.816 | 0.05 | | 1 Aroclor 1221 | BA |
| 2.862 | 44598 | 34265 | 0.768 | 0.12 | | 1 Aroclor 1221 | BA |
| 2.923 | 129578 | 108381 | 0.836 | 0.35 | | 1 Aroclor 1221 | BA |
| 3.045 | 20771 | 17579 | 0.846 | 0.05 | | | |
| 3.063 | 25113 | 26457 | 1.054 | 0.06 | | | |
| 3.093 | 61381 | 59379 | 0.967 | 0.16 | | | |
| 3.130 | 307368 | 294346 | 0.958 | 0.84 | | | |
| 3.396 | 215060 | 210412 | 0.978 | 0.59 | | | |
| 3.423 | 233220 | 215610 | 0.924 | 0.64 | | | |
| 3.512 | 401436 | 395824 | 0.986 | 1.10 | | | |
| 3.599 | 365060 | 337133 | 0.924 | 1.00 | | | |
| 3.727 | 60022 | 50875 | 0.848 | 0.16 | | | |
| 3.812 | 396158 | 382695 | 0.966 | 1.09 | | | |
| 3.837 | 159710 | 151517 | 0.949 | 0.44 | | | |
| 3.896 | 1452936 | 867447 | 0.597 | 4.00 | | | |
| 4.021 | 392525 | 315261 | 0.803 | 1.08 | | | |
| 4.077 | 284689 | 246524 | 0.866 | 0.78 | | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.142 | 152664 | 138476 | 0.907 | 0.42 | |
| 4.219 | 33162 | 29062 | 0.876 | 0.09 | |
| 4.298 | 1648649 | 1489054 | 0.903 | 4.54 | |
| 4.344 | 1701695 | 1606221 | 0.944 | 4.69 | 6 Aroclor 1248 |
| 4.376 | 1751811 | 1459511 | 0.833 | 4.83 | |
| 4.429 | 36307 | 23196 | 0.639 | 0.10 | |
| 4.502 | 620175 | 580955 | 0.937 | 1.71 | |
| 4.537 | 525822 | 471262 | 0.896 | 1.45 | |
| 4.631 | 1128606 | 1058909 | 0.938 | 3.11 | 6 Aroclor 1248 |
| 4.673 | 133702 | 117363 | 0.878 | 0.36 | |
| 4.704 | 153106 | 134558 | 0.879 | 0.42 | |
| 4.764 | 104330 | 88629 | 0.850 | 0.28 | |
| 4.820 | 130358 | 92405 | 0.709 | 0.35 | |
| 4.853 | 217012 | 204956 | 0.944 | 0.59 | |
| 4.898 | 747235 | 720686 | 0.964 | 2.06 | 6 Aroclor 1248 |
| 4.933 | 695806 | 668881 | 0.961 | 1.91 | |
| 4.964 | 1702241 | 1024859 | 0.602 | 4.69 | 6 Aroclor 1248 |
| 5.042 | 366221 | 316692 | 0.865 | 1.01 | |
| 5.123 | 715523 | 649511 | 0.908 | 1.97 | 6 Aroclor 1248 |
| 5.187 | 605722 | 546491 | 0.902 | 1.67 | |
| 5.246 | 935781 | 809618 | 0.865 | 2.58 | 7 Aroclor 1254 |
| 5.297 | 786197 | 695770 | 0.885 | 2.16 | |
| 5.369 | 77696 | 76349 | 0.983 | 0.21 | |
| 5.395 | 183037 | 151280 | 0.826 | 0.50 | |
| 5.449 | 271192 | 246515 | 0.909 | 0.74 | |
| 5.493 | 638483 | 571366 | 0.895 | 1.76 | 7 Aroclor 1254 |
| 5.534 | 529001 | 454528 | 0.859 | 1.45 | |
| 5.569 | 58317 | 79107 | 1.356 | 0.16 | |
| 5.596 | 1188005 | 1038676 | 0.874 | 3.27 | 7 Aroclor 1254 |
| 5.663 | 47707 | 41856 | 0.877 | 0.13 | |
| 5.691 | 173671 | 156592 | 0.902 | 0.47 | |
| 5.761 | 226302 | 210391 | 0.930 | 0.62 | |
| 5.796 | 146675 | 114554 | 0.781 | 0.40 | |
| 5.827 | 220593 | 160901 | 0.729 | 0.60 | |
| 5.876 | 1359228 | 1074351 | 0.790 | 3.74 | |
| 5.972 | 143059 | 104105 | 0.728 | 0.39 | |
| 6.015 | 103517 | 79261 | 0.766 | 0.28 | |
| 6.078 | 208038 | 189457 | 0.911 | 0.57 | |
| 6.110 | 548802 | 489209 | 0.891 | 1.51 | 7 Aroclor 1254 |
| 6.141 | 823600 | 726500 | 0.882 | 2.27 | |
| 6.253 | 167983 | 117249 | 0.698 | 0.46 | |
| 6.312 | 70284 | 72252 | 1.028 | 0.19 | |
| 6.328 | 108710 | 89471 | 0.823 | 0.29 | |
| 6.387 | 1096311 | 916313 | 0.836 | 3.02 | 7 Aroclor 1254 |
| 6.420 | 107753 | 92352 | 0.857 | 0.29 | |
| 6.460 | 55450 | 47738 | 0.861 | 0.15 | |
| 6.518 | 105694 | 82614 | 0.782 | 0.29 | |
| 6.595 | 208054 | 198704 | 0.955 | 0.57 | |
| 6.622 | 233403 | 209250 | 0.897 | 0.64 | |
| 6.646 | 73779 | 68729 | 0.932 | 0.20 | |
| 6.689 | 41528 | 36207 | 0.872 | 0.11 | |
| 6.747 | 21499 | 18317 | 0.852 | 0.05 | |
| 6.804 | 86638 | 72908 | 0.842 | 0.23 | |
| 6.845 | 100008 | 87067 | 0.871 | 0.27 | |
| 6.888 | 146361 | 125274 | 0.856 | 0.40 | |
| 6.925 | 62258 | 50282 | 0.808 | 0.17 | |
| 7.028 | 92199 | 72632 | 0.788 | 0.25 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.089 | 314385 | 282056 | 0.897 | 0.86 | 8 Aroclor 1260 |
| 7.120 | 23831 | 25885 | 1.086 | 0.06 | |
| 7.189 | 20811 | 18587 | 0.893 | 0.05 | |
| 7.205 | 32803 | 22769 | 0.694 | 0.09 | |
| 7.336 | 188310 | 159013 | 0.844 | 0.51 | 8 Aroclor 1260 |
| 7.366 | 94453 | 63172 | 0.669 | 0.26 | |
| 7.426 | 66631 | 33690 | 0.506 | 0.18 | |
| 7.474 | 100199 | 96701 | 0.965 | 0.27 | |
| 7.527 | 191690 | 135526 | 0.707 | 0.52 | 8 Aroclor 1260 |
| 7.632 | 40108 | 25608 | 0.638 | 0.11 | |
| 7.746 | 27283 | 28669 | 1.051 | 0.07 | |
| 7.780 | 53746 | 47007 | 0.875 | 0.14 | |
| 7.812 | 55305 | 39924 | 0.722 | 0.15 | |
| 7.985 | 150277 | 117960 | 0.785 | 0.41 | 8 Aroclor 1260 |
| 8.046 | 27729 | 16407 | 0.592 | 0.07 | |
| 8.360 | 113439 | 103458 | 0.912 | 0.31 | |
| 8.440 | 16752 | 14432 | 0.861 | 0.04 | |
| 8.656 | 2714779 | 2370865 | 0.873 | 7.99 | $ 12 Decachlorobiphenyl |
| 8.999 | 50300 | 28890 | 0.574 | 0.13 | |
| 9.255 | 19860 | 17068 | 0.859 | 0.05 | |
| 9.526 | 54843 | 33915 | 0.618 | 0.15 | |
| | 36251837 | 31326420 | | 100.000 | |

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718030.D
Lab Smp Id: 1681434 Client Smp ID: SW4-170830-01-GOSH-
Inj Date : 07-MAY-2018 20:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681434 x5,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 30 QC Sample: FIELDDUP
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.009 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.850 | 1.853 | -0.003 | 17855 | 0.01803 | 45 | 0.00- 20.00 | 100.00(M) | BA |
| 2.474 | 2.471 | 0.003 | 247388 | 0.46926 | 1200 | 0.00- 20.00 | 1385.54 | BA |
| 2.756 | 2.758 | -0.002 | 21218 | 0.01530 | 38 | 0.00- 20.00 | 118.84 | BA |
| 2.861 | 2.860 | 0.001 | 44598 | 0.04041 | 100 | 0.00- 20.00 | 249.78 | BA |
| 2.923 | 2.923 | 0.000 | 129577 | 0.03876 | 97 | 0.00- 20.00 | 725.72 | BA |
| Average of Peak Concentrations = | | | | | 290 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 2374200 | 0.01971 | 49 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

```
                                          CONCENTRATIONS
                                          ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (ug/Kg)   TARGET RANGE    RATIO         REVIEW CODE
 ==== ======== ========        ======== =======  =======   ============    =====         ===========

    4 Aroclor 1232                                CAS #: 1114-16-5

Operator disabled compound identification.
-------------------------------------------------------------------------------
    5 Aroclor 1016                                CAS #: 12674-11-2

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.344    4.343    0.001         1701694 0.71339     1800   0.00-  20.00   100.00(M)      BA
4.630    4.630    0.000         1128606 0.26571      660   0.00-  20.00    66.32         BA
4.897    4.898   -0.001          747235 0.36682      920   0.00-  20.00    43.91         BA
4.964    4.963    0.001         1702241 0.31078      780   0.00-  20.00   100.03         BA
5.123    5.123    0.000          715523 0.18913      470   0.00-  20.00    42.05         BA
               Average of Peak Concentrations =      920
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002          935780 0.16593      410   0.00-  20.00   100.00(M)      BA
5.493    5.492    0.001          638483 0.13690      340   0.00-  20.00    68.23         BA
5.596    5.596    0.000         1188005 0.13875      350   0.00-  20.00   126.95         BA
6.110    6.113   -0.003          548802 0.10330      260   0.00-  20.00    58.65         BA
6.387    6.387    0.000         1096310 0.14975      370   0.00-  20.00   117.15         BA
               Average of Peak Concentrations =      350
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.387    6.387    0.000               0    0.00     0.00   0.00-  20.00     0.00(M)      CO
7.088    7.090   -0.002          314384 0.02671       67   0.00-  20.00    30.81         CO
7.335    7.338   -0.003          188310 0.03329       83   0.00-  20.00    17.18         CO
7.527    7.529   -0.002          191690 0.05607      140   0.00-  20.00    17.49         CO
7.985    7.987   -0.002          150277 0.04745      120   0.00-  20.00    13.71         CO
               Average of Peak Concentrations =      100
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.656    8.657   -0.001         2714778 0.02038       51
-------------------------------------------------------------------------------
```

QC Flag Legend

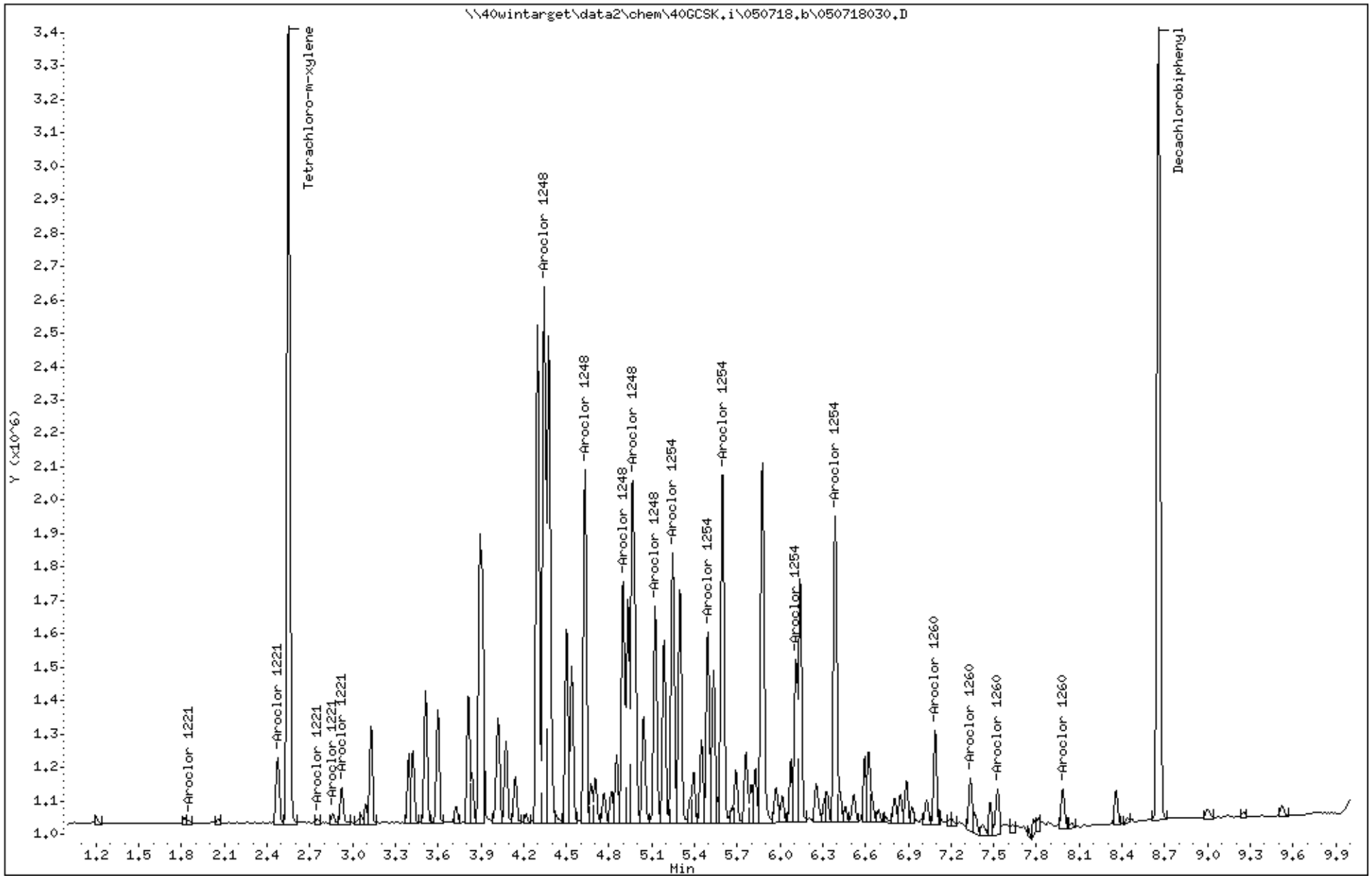
M - Compound response manually integrated.

Review Codes Legend

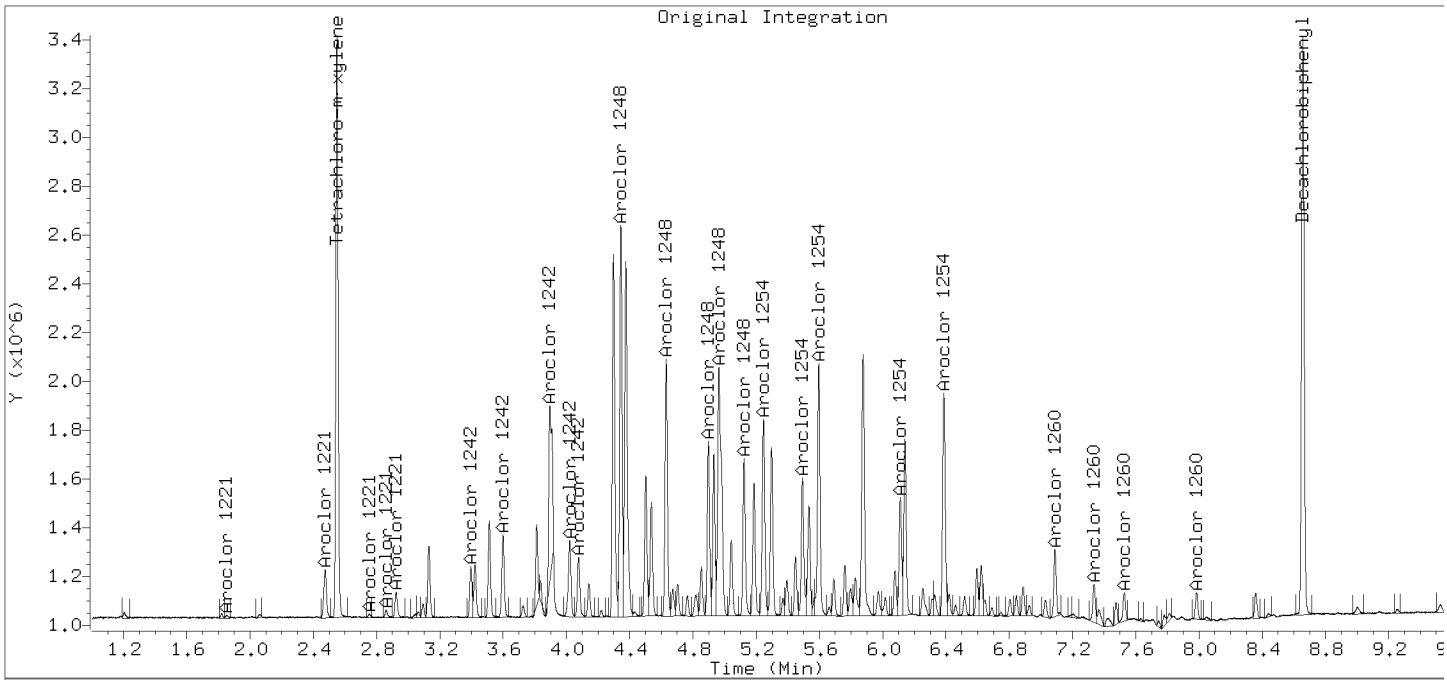
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

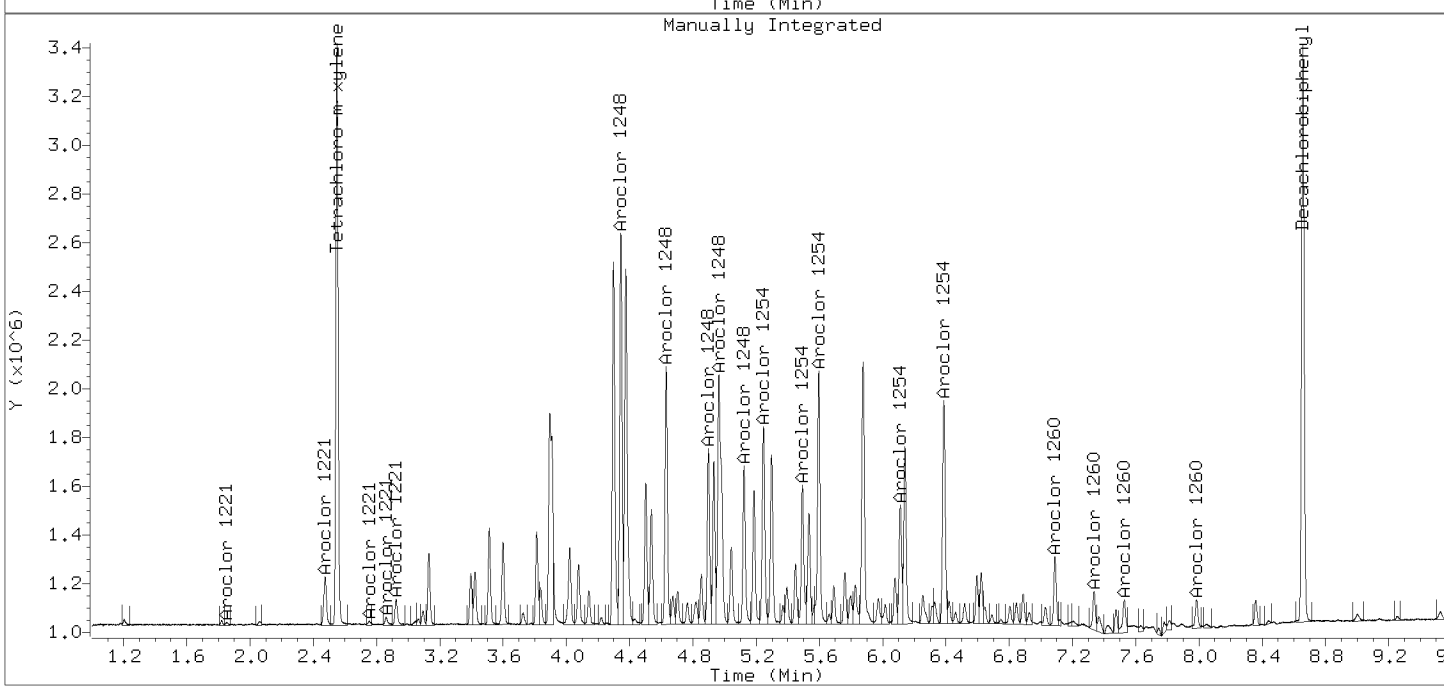
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718030.D
Date : 07-MAY-2018 20:58
Client ID: SW4-170830-01-GOSH-
Sample Info: 1681434 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 20:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681434




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 215060 | 0 | |
| Aroclor 1016 | 215060 | 0 | |
| Aroclor 1016 | 215060 | 0 | |
| Aroclor 1016 | 215060 | 0 | |
| Aroclor 1016 | 215060 | 0 | |
| Aroclor 1221 | 15780 | 17855 | BA |
| Aroclor 1221 | 15780 | 17855 | BA |
| Aroclor 1221 | 15780 | 17855 | BA |
| Aroclor 1221 | 15780 | 17855 | BA |
| Aroclor 1221 | 15780 | 17855 | BA |
| Aroclor 1232 | 122204 | 0 | |
| Aroclor 1232 | 122204 | 0 | |
| Aroclor 1232 | 122204 | 0 | |
| Aroclor 1232 | 122204 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 122204 | 0 | |
| Aroclor 1242 | 215060 | 0 | |
| Aroclor 1242 | 215060 | 0 | |
| Aroclor 1242 | 215060 | 0 | |
| Aroclor 1242 | 215060 | 0 | |
| Aroclor 1242 | 215060 | 0 | |
| Aroclor 1248 | 1693214 | 1701694 | BA |
| Aroclor 1248 | 1693214 | 1701694 | BA |
| Aroclor 1248 | 1693214 | 1701694 | BA |
| Aroclor 1248 | 1693214 | 1701694 | BA |
| Aroclor 1248 | 1693214 | 1701694 | BA |
| Aroclor 1254 | 921256 | 935780 | BA |
| Aroclor 1254 | 921256 | 935780 | BA |
| Aroclor 1254 | 921256 | 935780 | BA |
| Aroclor 1254 | 921256 | 935780 | BA |
| Aroclor 1254 | 921256 | 935780 | BA |
| Aroclor 1260 | 1085826 | 0 | CO |
| Aroclor 1260 | 1085826 | 0 | CO |
| Aroclor 1260 | 1085826 | 0 | CO |
| Aroclor 1260 | 1085826 | 0 | CO |
| Aroclor 1260 | 1085826 | 0 | CO |
| Tetrachloro-m-xylene | 2354410 | 2374200 | BA |
| Decachlorobiphenyl | 2714778 | 2714778 | |

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681906

Date Analyzed: 05/07/2018 21:14

Lab File ID: 050718.B\050718031.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <11.4 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.203 | 12461 | 11000 | 0.883 | 0.05 | | |
| 1.576 | 13884 | 10142 | 0.730 | 0.06 | | |
| 1.731 | 23383 | 21564 | 0.922 | 0.10 | | |
| 2.550 | 9251838 | 9365012 | 1.012 | 42.72 | $ 2 Tetrachloro-m-xylene | |
| 2.858 | 21077 | 18797 | 0.892 | 0.09 | | |
| 2.928 | 23578 | 17427 | 0.739 | 0.10 | | |
| 2.990 | 11632 | 8318 | 0.715 | 0.05 | | |
| 4.132 | 38210 | 35506 | 0.929 | 0.17 | | |
| 4.319 | 17446 | 15451 | 0.886 | 0.08 | | |
| 5.427 | 11569 | 13890 | 1.201 | 0.05 | | |
| 5.465 | 15288 | 12830 | 0.839 | 0.07 | | |
| 6.277 | 13077 | 10588 | 0.810 | 0.06 | | |
| 7.816 | 43520 | 32154 | 0.739 | 0.20 | | |
| 7.885 | 23206 | 20312 | 0.875 | 0.10 | | |
| 8.361 | 107370 | 91475 | 0.852 | 0.49 | | |
| 8.442 | 10506 | 10807 | 1.029 | 0.04 | | |
| 8.657 | 11994045 | 10471977 | 0.873 | 55.46 | $ 12 Decachlorobiphenyl | |
| 9.525 | 24500 | 17606 | 0.719 | 0.11 | | |
| | 21656590 | 20184856 | | 100.000 | | |

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

---

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 9251837 | 0.07682 | | 38 | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

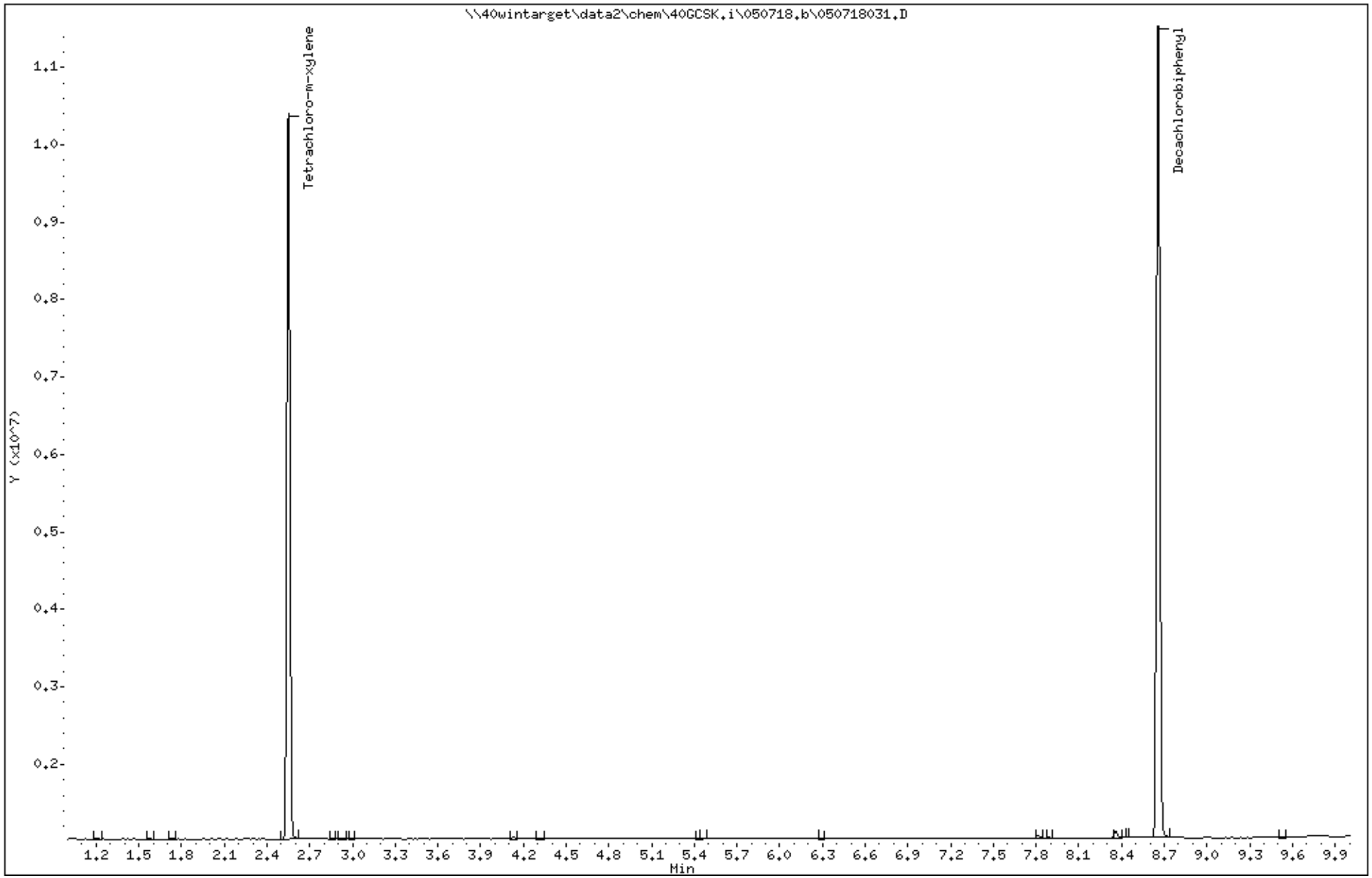
---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8.656 | 8.657 | -0.001 | 11994044 | 0.09005 | | 45 | | |

---

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Date : 07-MAY-2018 21:14
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1681906,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681906

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 9251837 | 9251837 | |
| Decachlorobiphenyl | 11994044 | 11994044 | |

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681907

Date Analyzed: 05/07/2018 21:30

Lab File ID: 050718.B\050718032.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | 240 | |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.204 | 25368 | 23610 | 0.931 | 0.05 | | |
| 1.574 | 10386 | 9610 | 0.925 | 0.02 | | |
| 1.731 | 24406 | 21766 | 0.892 | 0.05 | | |
| 1.855 | 13737 | 12928 | 0.941 | 0.02 | | |
| 2.471 | 105106 | 83696 | 0.796 | 0.21 | | |
| 2.549 | 9629482 | 9864810 | 1.024 | 20.13 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 153768 | 124743 | 0.811 | 0.32 | | |
| 2.860 | 199876 | 184186 | 0.922 | 0.41 | | |
| 2.922 | 895722 | 821428 | 0.917 | 1.87 | | |
| 3.086 | 12203 | 6660 | 0.546 | 0.02 | | |
| 3.130 | 112811 | 106366 | 0.943 | 0.23 | | |
| 3.358 | 20508 | 17002 | 0.829 | 0.04 | | |
| 3.395 | 1165874 | 1093070 | 0.938 | 2.43 | 3 Aroclor 1242 | BA |
| 3.422 | 702899 | 638339 | 0.908 | 1.46 | | |
| 3.514 | 196070 | 167215 | 0.853 | 0.40 | | |
| 3.594 | 1166527 | 853293 | 0.731 | 2.43 | 3 Aroclor 1242 | BA |
| 3.727 | 19698 | 13558 | 0.688 | 0.04 | | |
| 3.777 | 33202 | 30372 | 0.915 | 0.06 | | |
| 3.812 | 304577 | 294027 | 0.965 | 0.63 | | |
| 3.838 | 209445 | 185026 | 0.883 | 0.43 | | |
| 3.908 | 3505353 | 1969681 | 0.562 | 7.32 | 3 Aroclor 1242 | BA |
| 4.011 | 1506656 | 1219210 | 0.809 | 3.14 | 3 Aroclor 1242 | BA |
| 4.077 | 993714 | 914463 | 0.920 | 2.07 | 3 Aroclor 1242 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.142 | 297630 | 242775 | 0.816 | 0.62 | |
| 4.221 | 116094 | 96855 | 0.834 | 0.24 | |
| 4.297 | 827693 | 751100 | 0.907 | 1.73 | |
| 4.344 | 771142 | 737648 | 0.957 | 1.61 | |
| 4.376 | 314724 | 325309 | 1.034 | 0.65 | |
| 4.393 | 391968 | 351168 | 0.896 | 0.81 | |
| 4.454 | 30106 | 19901 | 0.661 | 0.06 | |
| 4.501 | 1068195 | 1000210 | 0.936 | 2.23 | |
| 4.537 | 851858 | 618169 | 0.726 | 1.78 | |
| 4.630 | 1387365 | 1211297 | 0.873 | 2.90 | |
| 4.702 | 317118 | 284653 | 0.898 | 0.66 | |
| 4.763 | 23385 | 17706 | 0.757 | 0.04 | |
| 4.812 | 70950 | 56251 | 0.793 | 0.14 | |
| 4.851 | 75097 | 69788 | 0.929 | 0.15 | |
| 4.897 | 648169 | 619505 | 0.956 | 1.35 | |
| 4.932 | 1167078 | 1082617 | 0.928 | 2.43 | |
| 4.964 | 1490424 | 1099302 | 0.738 | 3.11 | |
| 5.042 | 164210 | 122215 | 0.744 | 0.34 | |
| 5.123 | 1237360 | 1128069 | 0.912 | 2.58 | |
| 5.184 | 245858 | 190370 | 0.774 | 0.51 | |
| 5.247 | 284098 | 247069 | 0.870 | 0.59 | |
| 5.297 | 209842 | 183595 | 0.875 | 0.43 | |
| 5.396 | 45366 | 40427 | 0.891 | 0.09 | |
| 5.427 | 18891 | 22875 | 1.211 | 0.03 | |
| 5.449 | 188125 | 156821 | 0.834 | 0.39 | |
| 5.493 | 295888 | 256750 | 0.868 | 0.61 | |
| 5.531 | 189217 | 164210 | 0.868 | 0.39 | |
| 5.595 | 497924 | 383721 | 0.771 | 1.04 | |
| 5.691 | 146446 | 134446 | 0.918 | 0.30 | |
| 5.766 | 20780 | 16246 | 0.782 | 0.04 | |
| 5.802 | 26523 | 24058 | 0.907 | 0.05 | |
| 5.826 | 38375 | 33811 | 0.881 | 0.08 | |
| 5.876 | 323983 | 278531 | 0.860 | 0.67 | |
| 5.974 | 49770 | 31045 | 0.624 | 0.10 | |
| 6.111 | 325933 | 255144 | 0.783 | 0.68 | |
| 6.256 | 19007 | 15623 | 0.822 | 0.03 | |
| 6.325 | 10187 | 9391 | 0.922 | 0.02 | |
| 6.385 | 64636 | 57067 | 0.883 | 0.13 | |
| 6.422 | 10016 | 10357 | 1.034 | 0.02 | |
| 6.624 | 28672 | 20106 | 0.701 | 0.05 | |
| 6.804 | 15288 | 13444 | 0.879 | 0.03 | |
| 6.888 | 19409 | 14274 | 0.735 | 0.04 | |
| 7.089 | 21608 | 20406 | 0.944 | 0.04 | |
| 7.196 | 12780 | 10083 | 0.789 | 0.02 | |
| 7.813 | 24811 | 28299 | 1.141 | 0.05 | |
| 7.888 | 28804 | 18722 | 0.650 | 0.06 | |
| 8.360 | 106815 | 90409 | 0.846 | 0.22 | |
| 8.443 | 19206 | 13965 | 0.727 | 0.04 | |
| 8.605 | 13452 | 8574 | 0.637 | 0.02 | |
| 8.657 | 12211206 | 10694130 | 0.876 | 25.89 | $ 12 Decachlorobiphenyl |
| 8.998 | 29210 | 19473 | 0.667 | 0.06 | |
| 9.524 | 36061 | 23341 | 0.647 | 0.07 | |
| | 47836145 | 41976380 | | 100.000 | |

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 9629482 | 0.07995 | 40 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1165874 | 0.48169 | 240 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1166526 | 0.47396 | 240 | 0.00- 20.00 | 100.06 | BA |
| 3.907 | 3.909 | -0.002 | 3505352 | 0.48313 | 240 | 0.00- 20.00 | 300.66 | BA |
| 4.011 | 4.011 | 0.000 | 1506656 | 0.48349 | 240 | 0.00- 20.00 | 129.23 | BA |
| 4.077 | 4.078 | -0.001 | 993713 | 0.47471 | 240 | 0.00- 20.00 | 85.23 | BA |
| Average of Peak Concentrations = | | | | | 240 | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | |
|---|---|---|---|---|---|---|
| 8.656 | 8.657 | -0.001 | 12211206 | 0.09168 | 46 | |

---

QC Flag Legend

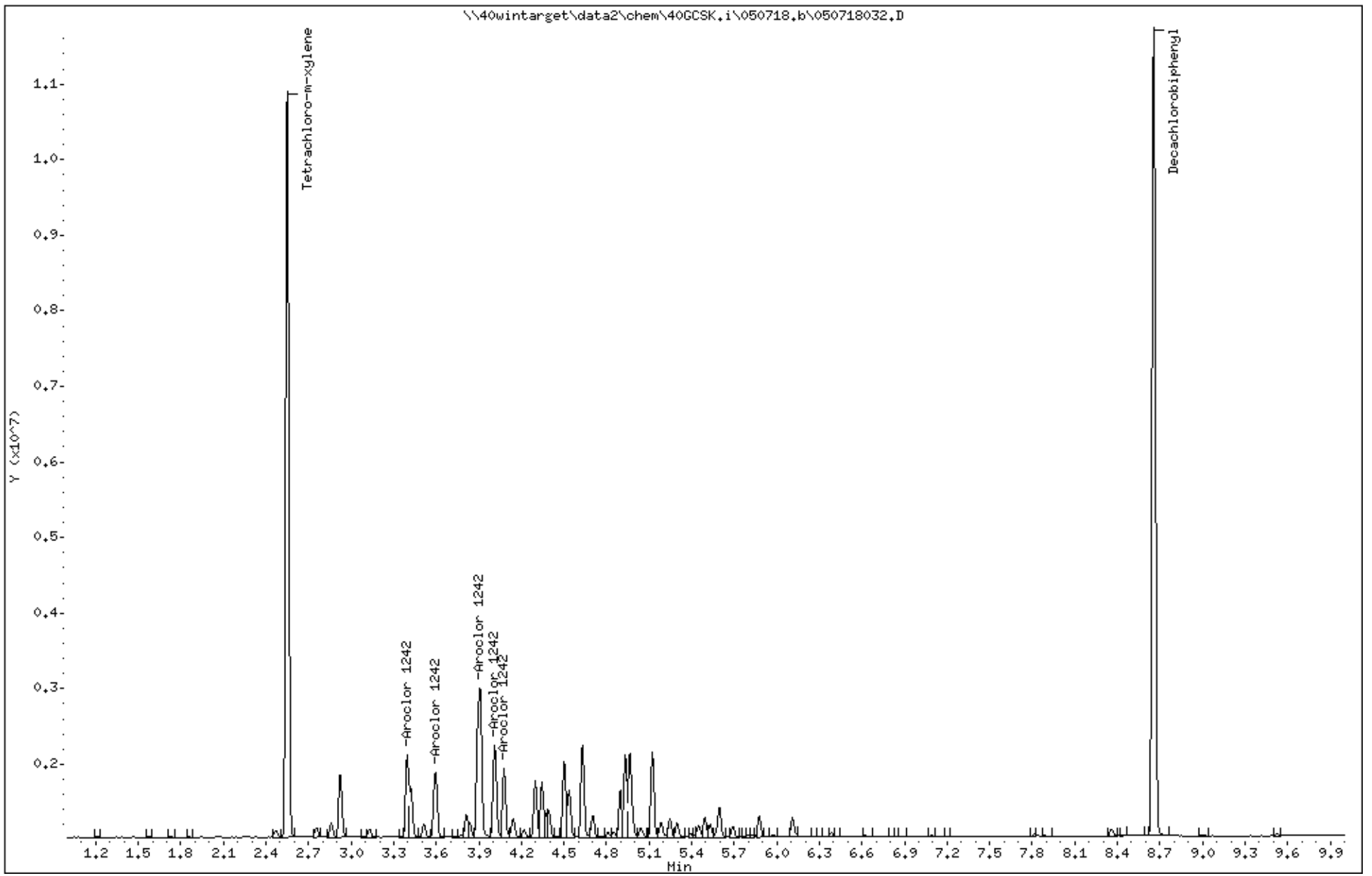
M - Compound response manually integrated.

Review Codes Legend

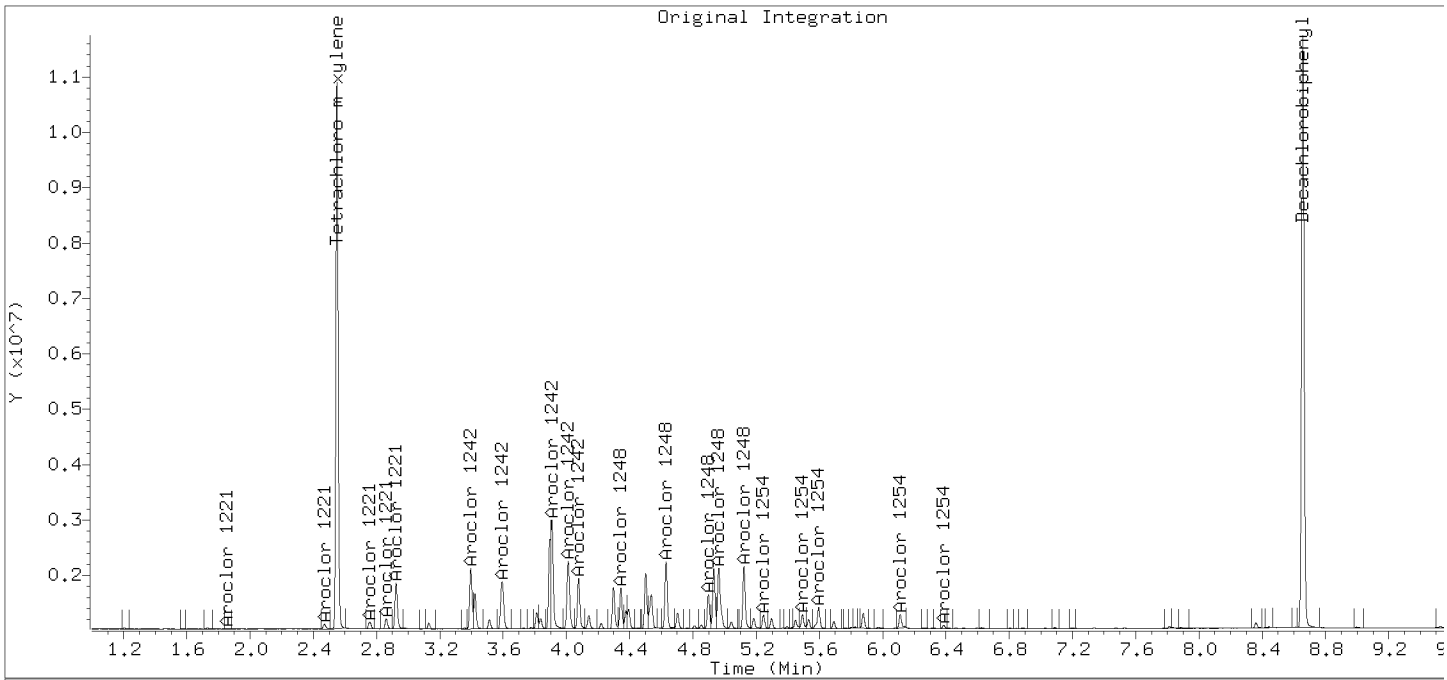
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

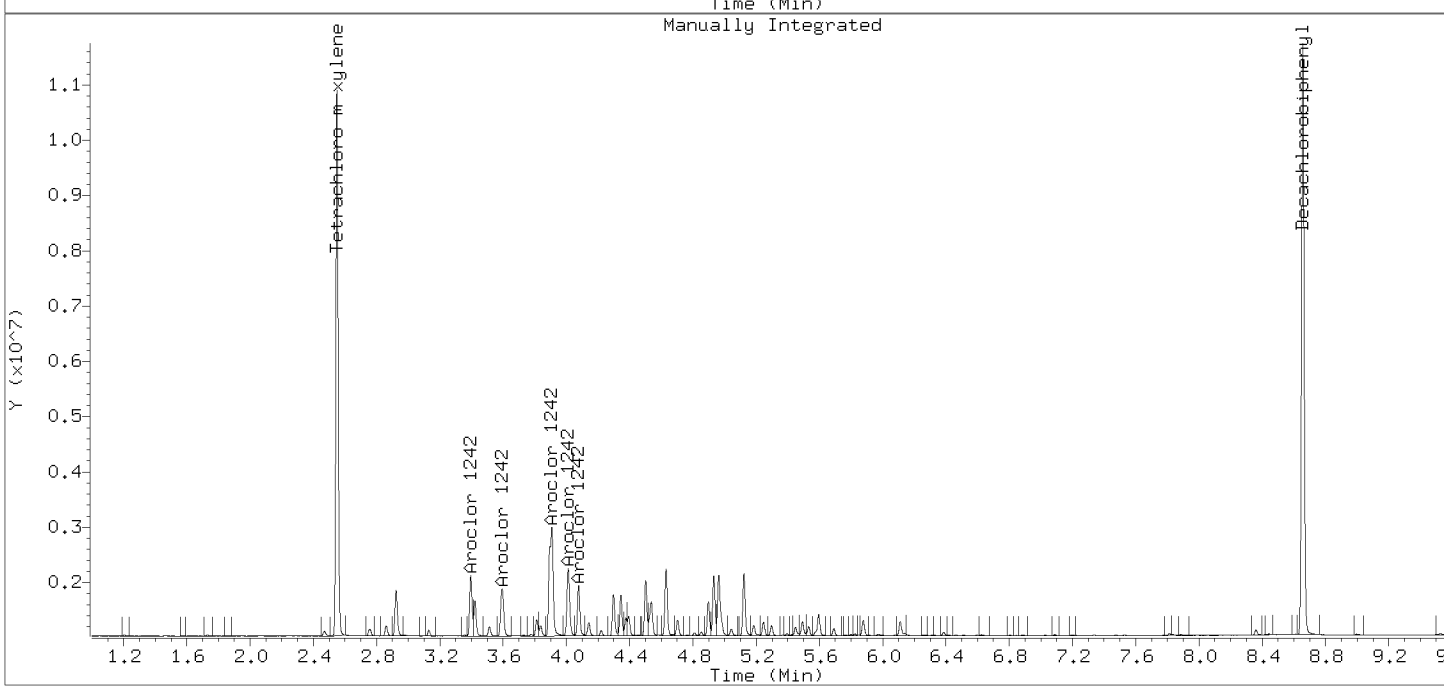
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Date : 07-MAY-2018 21:30
Client ID: MBLCS
Sample Info: 1681907,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681907




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1160634 | 0 | |
| Aroclor 1016 | 1160634 | 0 | |
| Aroclor 1016 | 1160634 | 0 | |
| Aroclor 1016 | 1160634 | 0 | |
| Aroclor 1016 | 1160634 | 0 | |
| Aroclor 1221 | 13736 | 0 | |
| Aroclor 1221 | 13736 | 0 | |
| Aroclor 1221 | 13736 | 0 | |
| Aroclor 1221 | 13736 | 0 | |
| Aroclor 1221 | 13736 | 0 | |
| Aroclor 1232 | 895721 | 0 | |
| Aroclor 1232 | 895721 | 0 | |
| Aroclor 1232 | 895721 | 0 | |
| Aroclor 1232 | 895721 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 895721 | 0 | |
| Aroclor 1242 | 1160634 | 1165874 | BA |
| Aroclor 1242 | 1160634 | 1165874 | BA |
| Aroclor 1242 | 1160634 | 1165874 | BA |
| Aroclor 1242 | 1160634 | 1165874 | BA |
| Aroclor 1242 | 1160634 | 1165874 | BA |
| Aroclor 1248 | 754157 | 0 | |
| Aroclor 1248 | 754157 | 0 | |
| Aroclor 1248 | 754157 | 0 | |
| Aroclor 1248 | 754157 | 0 | |
| Aroclor 1248 | 754157 | 0 | |
| Aroclor 1254 | 260061 | 0 | |
| Aroclor 1254 | 260061 | 0 | |
| Aroclor 1254 | 260061 | 0 | |
| Aroclor 1254 | 260061 | 0 | |
| Aroclor 1254 | 260061 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 9629482 | 9629482 | |
| Decachlorobiphenyl | 12211206 | 12211206 | |

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682672

Date Analyzed: 05/08/2018 03:50

Lab File ID: 050718.B\050718056.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <11.4 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Lab Smp Id: 1682672 Client Smp ID: MB
Inj Date : 08-MAY-2018 03:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682672,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 56 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.463 | 11241 | 10134 | 0.902 | 0.06 | | |
| 1.581 | 11665 | 8596 | 0.737 | 0.06 | | |
| 1.732 | 21723 | 19798 | 0.911 | 0.11 | | |
| 2.550 | 7968939 | 8165260 | 1.025 | 43.03 | $ 2 Tetrachloro-m-xylene | |
| 2.857 | 12291 | 14612 | 1.189 | 0.06 | | |
| 2.929 | 23630 | 15283 | 0.647 | 0.12 | | |
| 4.133 | 21065 | 18470 | 0.877 | 0.11 | | |
| 5.465 | 19491 | 14798 | 0.759 | 0.10 | | |
| 6.274 | 13866 | 8724 | 0.629 | 0.07 | | |
| 7.815 | 39467 | 29206 | 0.740 | 0.21 | | |
| 7.885 | 25223 | 22569 | 0.895 | 0.13 | | |
| 8.361 | 94775 | 82158 | 0.867 | 0.51 | | |
| 8.439 | 10282 | 9448 | 0.919 | 0.05 | | |
| 8.657 | 10143407 | 8722378 | 0.860 | 54.86 | $ 12 Decachlorobiphenyl | |
| 9.000 | 44382 | 27830 | 0.627 | 0.23 | | |
| 9.529 | 53748 | 34663 | 0.645 | 0.29 | | |
| | 18515197 | 17203927 | | 100.000 | | |

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Lab Smp Id: 1682672 Client Smp ID: MB
Inj Date : 08-MAY-2018 03:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682672,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 56 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

---

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

| RT | EXP RT | DLT RT | RESPONSE | ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 2.549 | 2.549 | 0.000 | 7968939 | 0.06616 | 33 | | | |

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

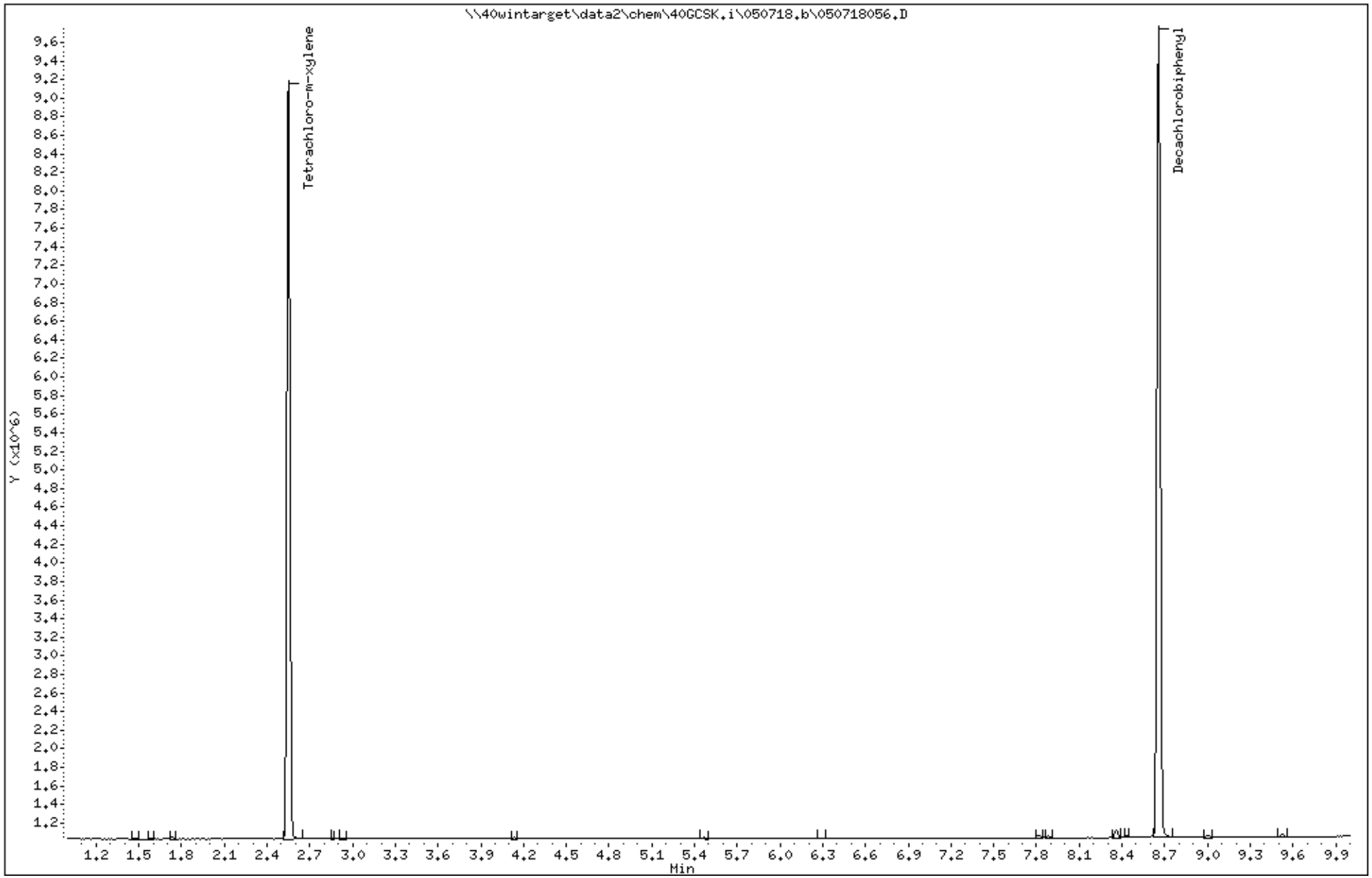
---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8.657 | 8.657 | 0.000 | 10143407 | 0.07616 | | 38 | | |

---

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Date : 08-MAY-2018 03:50
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1682672,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718056.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 03:50 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682672

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 7968939 | 7968939 | |
| Decachlorobiphenyl | 10143407 | 10143407 | |

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682673

Date Analyzed: 05/08/2018 04:06

Lab File ID: 050718.B\050718057.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | 229 | |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Lab Smp Id: 1682673 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 04:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682673,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 15456 | 15357 | 0.994 | 0.03 | | |
| 2.469 | 98965 | 80937 | 0.818 | 0.21 | | |
| 2.550 | 9132073 | 9350217 | 1.024 | 20.04 | $ 2 Tetrachloro-m-xylene | |
| 2.757 | 151780 | 119584 | 0.788 | 0.33 | | |
| 2.861 | 185129 | 174524 | 0.943 | 0.40 | | |
| 2.923 | 845475 | 783752 | 0.927 | 1.85 | | |
| 3.131 | 108707 | 101344 | 0.932 | 0.23 | | |
| 3.357 | 19278 | 14904 | 0.773 | 0.04 | | |
| 3.396 | 1108887 | 1047038 | 0.944 | 2.43 | 3 Aroclor 1242 | BA |
| 3.422 | 664487 | 602871 | 0.907 | 1.45 | | |
| 3.514 | 183401 | 160910 | 0.877 | 0.40 | | |
| 3.594 | 1107925 | 803512 | 0.725 | 2.43 | 3 Aroclor 1242 | BA |
| 3.726 | 23817 | 12754 | 0.535 | 0.05 | | |
| 3.777 | 29449 | 30087 | 1.022 | 0.06 | | |
| 3.813 | 290043 | 281745 | 0.971 | 0.63 | | |
| 3.838 | 197088 | 179949 | 0.913 | 0.43 | | |
| 3.909 | 3349691 | 1868131 | 0.558 | 7.35 | 3 Aroclor 1242 | BA |
| 4.012 | 1438103 | 1173930 | 0.816 | 3.15 | 3 Aroclor 1242 | BA |
| 4.077 | 951530 | 863017 | 0.907 | 2.08 | 3 Aroclor 1242 | BA |
| 4.142 | 265317 | 240360 | 0.906 | 0.58 | | |
| 4.220 | 108673 | 91827 | 0.845 | 0.23 | | |
| 4.297 | 778182 | 728033 | 0.936 | 1.70 | | |
| 4.345 | 735673 | 692955 | 0.942 | 1.61 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.376 | 297298 | 308812 | 1.039 | 0.65 | |
| 4.394 | 390002 | 341330 | 0.875 | 0.85 | |
| 4.458 | 24416 | 19026 | 0.779 | 0.05 | |
| 4.502 | 1009012 | 961617 | 0.953 | 2.21 | |
| 4.537 | 842917 | 595742 | 0.707 | 1.84 | |
| 4.631 | 1333772 | 1165106 | 0.874 | 2.92 | |
| 4.703 | 307672 | 269798 | 0.877 | 0.67 | |
| 4.763 | 24247 | 17388 | 0.717 | 0.05 | |
| 4.811 | 68174 | 54853 | 0.805 | 0.14 | |
| 4.854 | 72119 | 65605 | 0.910 | 0.15 | |
| 4.898 | 615387 | 583749 | 0.949 | 1.35 | |
| 4.933 | 1115660 | 1044369 | 0.936 | 2.44 | |
| 4.965 | 1436890 | 1030945 | 0.717 | 3.15 | |
| 5.043 | 158737 | 119148 | 0.751 | 0.34 | |
| 5.123 | 1177305 | 1056181 | 0.897 | 2.58 | |
| 5.184 | 245382 | 183034 | 0.746 | 0.53 | |
| 5.247 | 274468 | 243197 | 0.886 | 0.60 | |
| 5.298 | 204739 | 174642 | 0.853 | 0.44 | |
| 5.368 | 18386 | 15817 | 0.860 | 0.04 | |
| 5.394 | 43521 | 38690 | 0.889 | 0.09 | |
| 5.450 | 180018 | 147119 | 0.817 | 0.39 | |
| 5.493 | 287305 | 243343 | 0.847 | 0.63 | |
| 5.533 | 180896 | 160788 | 0.889 | 0.39 | |
| 5.597 | 481976 | 362389 | 0.752 | 1.05 | |
| 5.691 | 141378 | 126057 | 0.892 | 0.31 | |
| 5.759 | 19760 | 14396 | 0.729 | 0.04 | |
| 5.799 | 25918 | 23719 | 0.915 | 0.05 | |
| 5.825 | 51039 | 31522 | 0.618 | 0.11 | |
| 5.878 | 324754 | 265906 | 0.819 | 0.71 | |
| 5.975 | 39981 | 31553 | 0.789 | 0.08 | |
| 6.079 | 10824 | 11720 | 1.083 | 0.02 | |
| 6.111 | 272571 | 237723 | 0.872 | 0.59 | |
| 6.141 | 47362 | 42532 | 0.898 | 0.10 | |
| 6.252 | 25554 | 17391 | 0.681 | 0.05 | |
| 6.385 | 66774 | 58798 | 0.881 | 0.14 | |
| 6.419 | 11464 | 10911 | 0.952 | 0.02 | |
| 6.596 | 10458 | 12109 | 1.158 | 0.02 | |
| 6.622 | 25921 | 19558 | 0.755 | 0.05 | |
| 6.808 | 11825 | 9922 | 0.839 | 0.02 | |
| 6.842 | 11094 | 7625 | 0.687 | 0.02 | |
| 6.889 | 13819 | 13141 | 0.951 | 0.03 | |
| 7.032 | 14650 | 12404 | 0.847 | 0.03 | |
| 7.091 | 15811 | 16566 | 1.048 | 0.03 | |
| 7.338 | 9974 | 9244 | 0.927 | 0.02 | |
| 7.473 | 10034 | 6611 | 0.659 | 0.02 | |
| 7.813 | 41653 | 33858 | 0.813 | 0.09 | |
| 7.886 | 29434 | 22071 | 0.750 | 0.06 | |
| 8.138 | 11335 | 12196 | 1.076 | 0.02 | |
| 8.359 | 101936 | 86698 | 0.851 | 0.22 | |
| 8.436 | 13851 | 12253 | 0.885 | 0.03 | |
| 8.657 | 11548062 | 9956552 | 0.862 | 25.70 | $ 12 Decachlorobiphenyl |
| 9.001 | 29894 | 22287 | 0.746 | 0.06 | |
| 9.527 | 46616 | 30205 | 0.648 | 0.10 | |
| | 45563173 | 39775954 | | 100.000 | |

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Lab Smp Id: 1682673 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 04:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682673,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 9132072 | 0.07582 | 38 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.396 | 3.396 | 0.000 | 1108887 | 0.45815 | 230 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1107924 | 0.45015 | 220 | 0.00- 20.00 | 99.91 | BA |
| 3.909 | 3.909 | 0.000 | 3349691 | 0.46167 | 230 | 0.00- 20.00 | 302.08 | BA |
| 4.011 | 4.011 | 0.000 | 1438102 | 0.46149 | 230 | 0.00- 20.00 | 129.69 | BA |
| 4.077 | 4.078 | -0.001 | 951529 | 0.45456 | 230 | 0.00- 20.00 | 85.81 | BA |
| Average of Peak Concentrations = | | | | | 230 | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

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$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | |
|---|---|---|---|---|---|---|
| 8.657 | 8.657 | 0.000 | 11548061 | 0.08670 | 43 | |

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QC Flag Legend

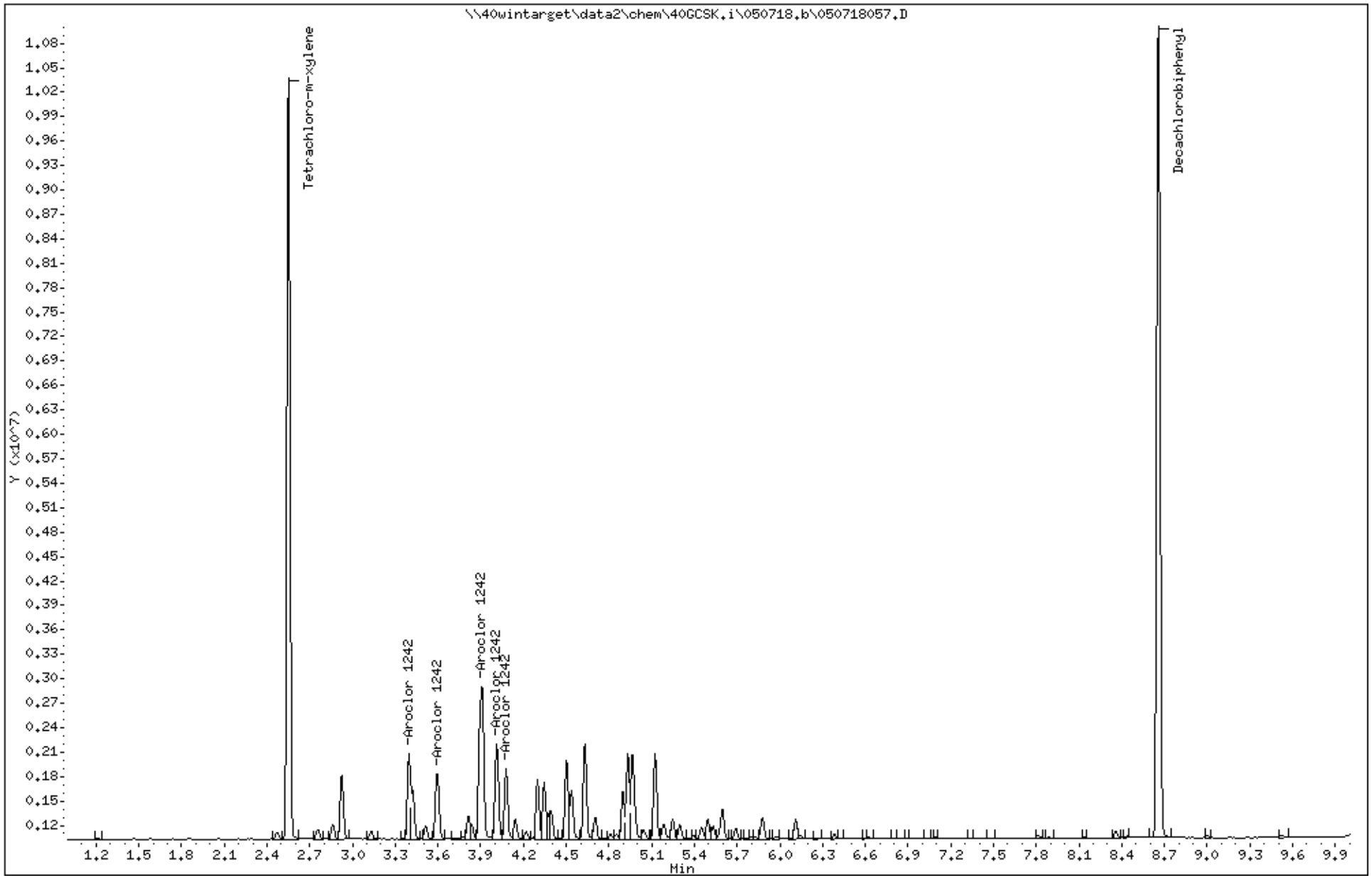
M - Compound response manually integrated.

Review Codes Legend

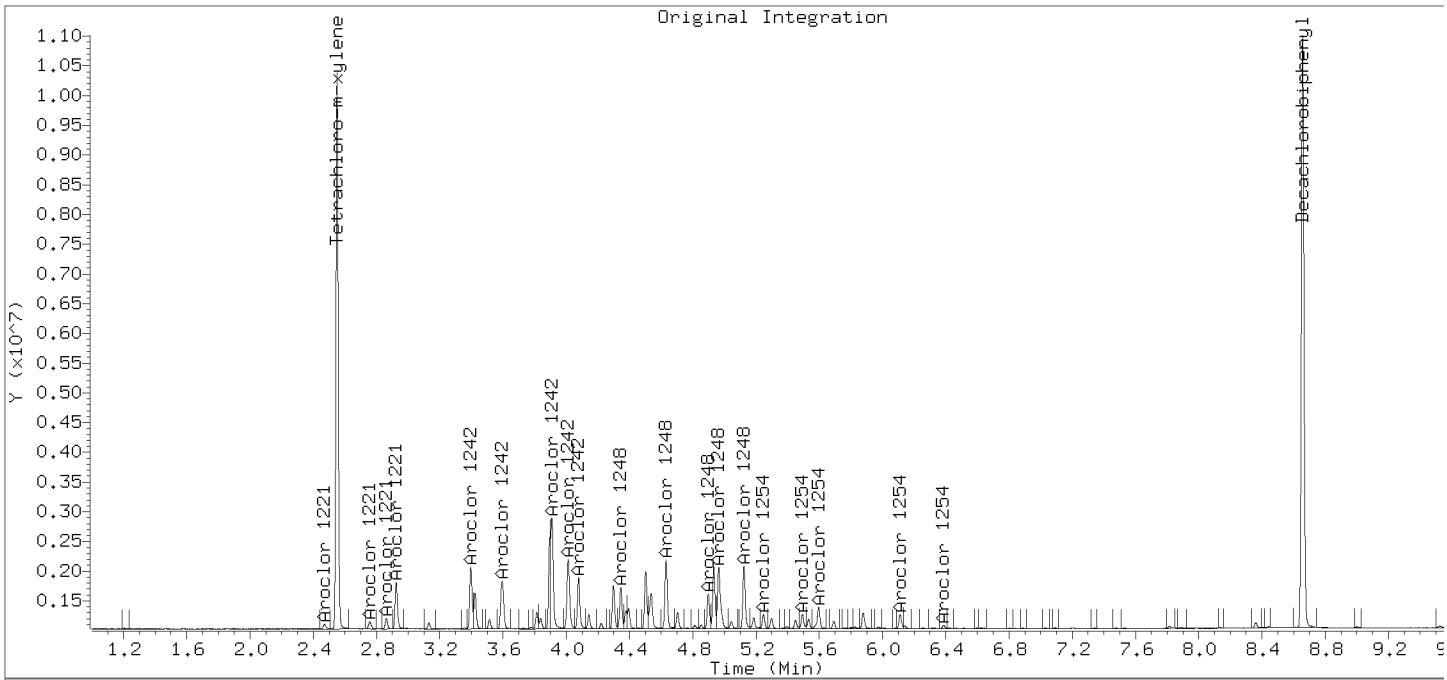
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

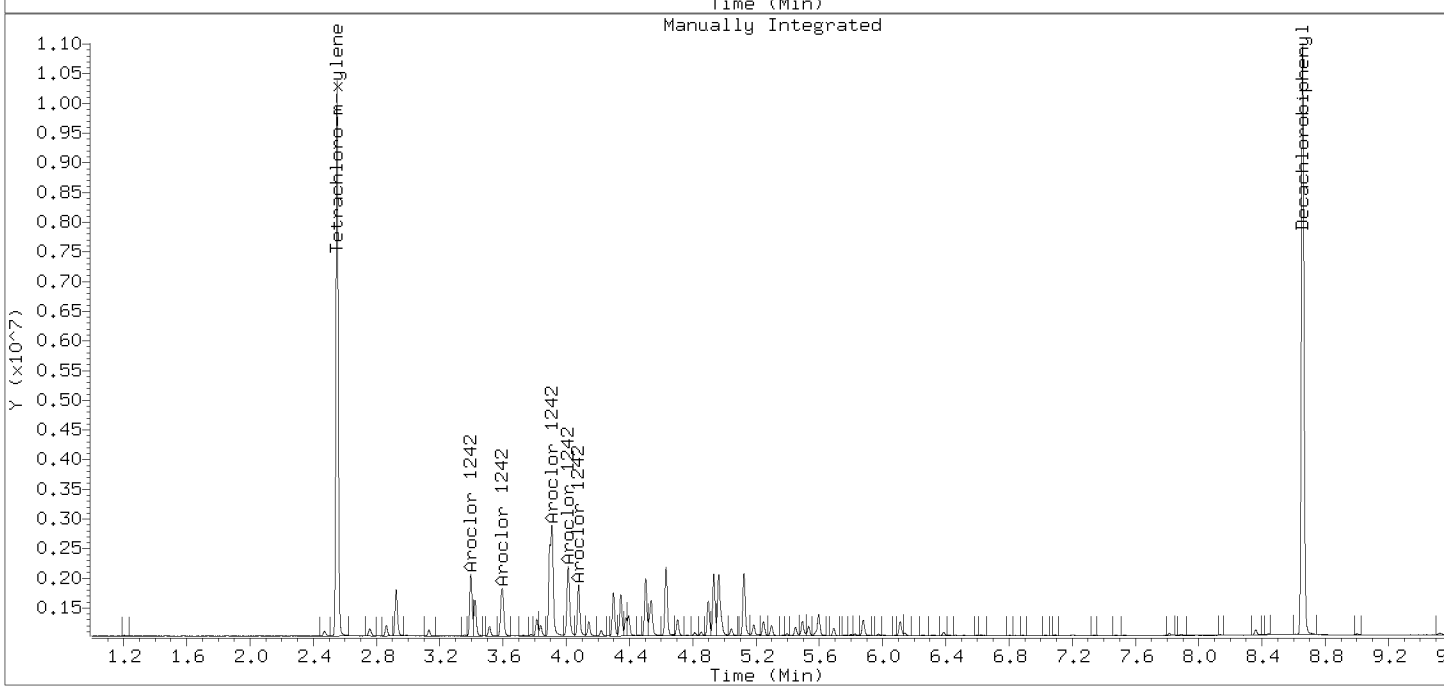
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Date : 08-MAY-2018 04:06
Client ID: MBLCS
Sample Info: 1682673,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718057.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 04:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682673




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1102222 | 0 | |
| Aroclor 1016 | 1102222 | 0 | |
| Aroclor 1016 | 1102222 | 0 | |
| Aroclor 1016 | 1102222 | 0 | |
| Aroclor 1016 | 1102222 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 845475 | 0 | |
| Aroclor 1232 | 845475 | 0 | |
| Aroclor 1232 | 845475 | 0 | |
| Aroclor 1232 | 845475 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 845475 | 0 | |
| Aroclor 1242 | 1102222 | 1108887 | BA |
| Aroclor 1242 | 1102222 | 1108887 | BA |
| Aroclor 1242 | 1102222 | 1108887 | BA |
| Aroclor 1242 | 1102222 | 1108887 | BA |
| Aroclor 1242 | 1102222 | 1108887 | BA |
| Aroclor 1248 | 730202 | 0 | |
| Aroclor 1248 | 730202 | 0 | |
| Aroclor 1248 | 730202 | 0 | |
| Aroclor 1248 | 730202 | 0 | |
| Aroclor 1248 | 730202 | 0 | |
| Aroclor 1254 | 261765 | 0 | |
| Aroclor 1254 | 261765 | 0 | |
| Aroclor 1254 | 261765 | 0 | |
| Aroclor 1254 | 261765 | 0 | |
| Aroclor 1254 | 261765 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 9132072 | 9132072 | |
| Decachlorobiphenyl | 11548061 | 11548061 | |

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158029
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 1682675
Date Analyzed: 05/08/2018 13:48
Lab File ID: 050718.B\050718075.D
Initial wt/vol: 6.9581 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <32.8 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 259 | |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <32.8 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | 514 | |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 674 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 294 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 237 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718075.D
Lab Smp Id: 1682675 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:48
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682675 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 75 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 6.958 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.178 | 18137 | 21447 | 1.183 | 0.02 | | |
| 1.347 | 11555 | 11195 | 0.969 | 0.01 | | |
| 1.854 | 20172 | 17809 | 0.883 | 0.02 | 1 Aroclor 1221 | BA |
| 2.004 | 39581 | 25840 | 0.653 | 0.05 | | |
| 2.380 | 14974 | 14490 | 0.968 | 0.02 | | |
| 2.423 | 28608 | 26007 | 0.909 | 0.04 | | |
| 2.474 | 249876 | 212870 | 0.852 | 0.35 | 1 Aroclor 1221 | BA |
| 2.550 | 6072393 | 6267060 | 1.032 | 8.55 | $ 2 Tetrachloro-m-xylene | BA |
| 2.687 | 25719 | 15795 | 0.614 | 0.03 | | |
| 2.756 | 128722 | 97187 | 0.755 | 0.18 | 1 Aroclor 1221 | BA |
| 2.862 | 146540 | 138154 | 0.943 | 0.20 | 1 Aroclor 1221 | BA |
| 2.922 | 606345 | 558011 | 0.920 | 0.85 | 1 Aroclor 1221 | BA |
| 3.047 | 140609 | 93470 | 0.665 | 0.19 | | |
| 3.092 | 238735 | 240275 | 1.006 | 0.33 | | |
| 3.130 | 160734 | 156010 | 0.971 | 0.22 | | |
| 3.354 | 18670 | 13224 | 0.708 | 0.02 | | |
| 3.396 | 781875 | 741525 | 0.948 | 1.10 | 3 Aroclor 1242 | BA |
| 3.422 | 456626 | 431931 | 0.946 | 0.64 | | |
| 3.513 | 220735 | 196554 | 0.890 | 0.31 | | |
| 3.594 | 769313 | 550656 | 0.716 | 1.08 | 3 Aroclor 1242 | BA |
| 3.726 | 46623 | 36470 | 0.782 | 0.06 | | |
| 3.777 | 24134 | 24510 | 1.016 | 0.03 | | |
| 3.812 | 511241 | 511597 | 1.001 | 0.72 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 3.837 | 238723 | 225972 | 0.947 | 0.33 | |
| 3.908 | 3396592 | 1853420 | 0.546 | 4.78 | 3 Aroclor 1242 |
| 4.012 | 1002881 | 800026 | 0.798 | 1.41 | 3 Aroclor 1242 |
| 4.077 | 759615 | 729473 | 0.960 | 1.06 | 3 Aroclor 1242 |
| 4.142 | 279491 | 249321 | 0.892 | 0.39 | |
| 4.221 | 84027 | 64625 | 0.769 | 0.11 | |
| 4.297 | 1833855 | 1702782 | 0.929 | 2.58 | |
| 4.344 | 1851922 | 1759409 | 0.950 | 2.60 | 6 Aroclor 1248 |
| 4.375 | 1824028 | 1410152 | 0.773 | 2.56 | |
| 4.432 | 68107 | 40642 | 0.597 | 0.09 | |
| 4.501 | 1210815 | 1141441 | 0.943 | 1.70 | |
| 4.537 | 969677 | 776110 | 0.800 | 1.36 | |
| 4.631 | 1588842 | 1493875 | 0.940 | 2.23 | 6 Aroclor 1248 |
| 4.672 | 111958 | 100338 | 0.896 | 0.15 | |
| 4.703 | 330075 | 308105 | 0.933 | 0.46 | |
| 4.765 | 86547 | 73082 | 0.844 | 0.12 | |
| 4.820 | 138872 | 92984 | 0.670 | 0.19 | |
| 4.853 | 244655 | 228236 | 0.933 | 0.34 | |
| 4.897 | 942819 | 905955 | 0.961 | 1.32 | 6 Aroclor 1248 |
| 4.933 | 1252160 | 1200241 | 0.959 | 1.76 | |
| 4.964 | 2225023 | 1361063 | 0.612 | 3.13 | 6 Aroclor 1248 |
| 5.042 | 445358 | 386673 | 0.868 | 0.62 | |
| 5.123 | 1230949 | 1147764 | 0.932 | 1.73 | 6 Aroclor 1248 |
| 5.186 | 824130 | 740160 | 0.898 | 1.16 | |
| 5.247 | 1432249 | 1221907 | 0.853 | 2.01 | 7 Aroclor 1254 |
| 5.298 | 1156221 | 991003 | 0.857 | 1.62 | |
| 5.368 | 142883 | 130326 | 0.912 | 0.20 | |
| 5.399 | 550757 | 484142 | 0.879 | 0.77 | |
| 5.448 | 427737 | 399387 | 0.934 | 0.60 | |
| 5.493 | 863239 | 800402 | 0.927 | 1.21 | 7 Aroclor 1254 |
| 5.537 | 2150268 | 2039052 | 0.948 | 3.02 | |
| 5.574 | 132992 | 144982 | 1.090 | 0.18 | |
| 5.596 | 1706687 | 1495489 | 0.876 | 2.40 | 7 Aroclor 1254 |
| 5.661 | 70053 | 63721 | 0.910 | 0.09 | |
| 5.691 | 237368 | 212419 | 0.895 | 0.33 | |
| 5.761 | 374975 | 350016 | 0.933 | 0.52 | |
| 5.797 | 244213 | 195436 | 0.800 | 0.34 | |
| 5.828 | 385743 | 264996 | 0.687 | 0.54 | |
| 5.875 | 2202797 | 1821620 | 0.827 | 3.10 | |
| 5.908 | 176401 | 146823 | 0.832 | 0.24 | |
| 5.973 | 266264 | 150896 | 0.567 | 0.37 | |
| 6.017 | 165743 | 136586 | 0.824 | 0.23 | |
| 6.054 | 11305 | 18354 | 1.624 | 0.01 | |
| 6.079 | 542131 | 509080 | 0.939 | 0.76 | |
| 6.113 | 952028 | 842826 | 0.885 | 1.34 | 7 Aroclor 1254 |
| 6.141 | 2426930 | 2145464 | 0.884 | 3.41 | |
| 6.255 | 482606 | 325262 | 0.674 | 0.67 | |
| 6.314 | 141012 | 159411 | 1.130 | 0.19 | |
| 6.329 | 238012 | 194704 | 0.818 | 0.33 | |
| 6.387 | 2523594 | 2173928 | 0.861 | 3.55 | 8 Aroclor 1260 |
| 6.421 | 274373 | 253049 | 0.922 | 0.38 | |
| 6.461 | 100929 | 83644 | 0.829 | 0.14 | |
| 6.519 | 272421 | 217749 | 0.799 | 0.38 | |
| 6.575 | 26058 | 32951 | 1.265 | 0.03 | |
| 6.596 | 991304 | 937855 | 0.946 | 1.39 | |
| 6.624 | 445450 | 430301 | 0.966 | 0.62 | |
| 6.648 | 362703 | 329190 | 0.908 | 0.51 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.690 | 103923 | 95973 | 0.923 | 0.14 | |
| 6.722 | 9348 | 11641 | 1.245 | 0.01 | |
| 6.746 | 70172 | 62781 | 0.895 | 0.09 | |
| 6.805 | 342555 | 311543 | 0.909 | 0.48 | |
| 6.845 | 352447 | 306878 | 0.871 | 0.49 | |
| 6.888 | 394824 | 345045 | 0.874 | 0.55 | |
| 6.926 | 232451 | 170776 | 0.735 | 0.32 | |
| 6.999 | 61792 | 51076 | 0.827 | 0.08 | |
| 7.029 | 980634 | 932960 | 0.951 | 1.38 | |
| 7.090 | 1609399 | 1451376 | 0.902 | 2.26 | 8 Aroclor 1260 |
| 7.122 | 164211 | 121983 | 0.743 | 0.23 | |
| 7.158 | 59981 | 45318 | 0.756 | 0.08 | |
| 7.207 | 101440 | 51359 | 0.506 | 0.14 | |
| 7.337 | 645063 | 583864 | 0.905 | 0.90 | 8 Aroclor 1260 |
| 7.367 | 263863 | 201865 | 0.765 | 0.37 | |
| 7.425 | 83603 | 47203 | 0.565 | 0.11 | |
| 7.476 | 472915 | 437963 | 0.926 | 0.66 | |
| 7.529 | 606018 | 485670 | 0.801 | 0.85 | 8 Aroclor 1260 |
| 7.576 | 57352 | 42174 | 0.735 | 0.08 | |
| 7.638 | 77195 | 43167 | 0.559 | 0.10 | |
| 7.666 | 43167 | 27149 | 0.629 | 0.06 | |
| 7.747 | 34613 | 40916 | 1.182 | 0.04 | |
| 7.781 | 136664 | 121763 | 0.891 | 0.19 | |
| 7.814 | 183887 | 140235 | 0.763 | 0.25 | |
| 7.900 | 228422 | 145924 | 0.639 | 0.32 | |
| 7.987 | 457938 | 377642 | 0.825 | 0.64 | 8 Aroclor 1260 |
| 8.044 | 62721 | 36382 | 0.580 | 0.08 | |
| 8.361 | 379658 | 329385 | 0.868 | 0.53 | |
| 8.440 | 15587 | 12255 | 0.786 | 0.02 | |
| 8.465 | 12716 | 11868 | 0.933 | 0.01 | |
| 8.657 | 6383243 | 5559389 | 0.871 | 9.58 | $ 12 Decachlorobiphenyl |
| 8.789 | 27566 | 24853 | 0.902 | 0.03 | |
| 8.813 | 67035 | 54204 | 0.809 | 0.09 | |
| 8.930 | 22206 | 18242 | 0.822 | 0.03 | |
| 9.002 | 23709 | 16718 | 0.705 | 0.03 | |
| 9.143 | 28241 | 24756 | 0.877 | 0.03 | |
| 9.255 | 28901 | 26873 | 0.930 | 0.04 | |
| 9.527 | 26637 | 20222 | 0.759 | 0.03 | |
| | 71002580 | 61686298 | | 100.000 | |

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718075.D
Lab Smp Id: 1682675 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 13:48
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682675 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 75 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 6.958 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.854 | 1.853 | 0.001 | 20172 | 0.02037 | 29 | 0.00- 20.00 | 100.00(M) | BA |
| 2.473 | 2.471 | 0.002 | 249876 | 0.47398 | 680 | 0.00- 20.00 | 1238.73 | BA |
| 2.756 | 2.758 | -0.002 | 128721 | 0.09281 | 130 | 0.00- 20.00 | 638.12 | BA |
| 2.861 | 2.860 | 0.001 | 146540 | 0.13279 | 190 | 0.00- 20.00 | 726.45 | BA |
| 2.922 | 2.923 | -0.001 | 606345 | 0.18137 | 260 | 0.00- 20.00 | 3005.87 | BA |
| Average of Peak Concentrations = | | | | | 260 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 6072392 | 0.05042 | 72 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 781875 | 0.32304 | 460 | 0.00- 20.00 | 100.00(RM) | BA |
| 3.594 | 3.592 | 0.002 | 769312 | 0.31257 | 450 | 0.00- 20.00 | 98.39 | BA |
| 3.908 | 3.909 | -0.001 | 3396592 | 0.46814 | 670 | 0.00- 20.00 | 434.42 | BA |
| 4.011 | 4.011 | 0.000 | 1002881 | 0.32182 | 460 | 0.00- 20.00 | 128.27 | BA |
| 4.077 | 4.078 | -0.001 | 759614 | 0.36288 | 520 | 0.00- 20.00 | 97.15 | BA |
| Average of Peak Concentrations = | | | | | 510 | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1851922 | 0.77637 | 1100 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 1588841 | 0.37407 | 540 | 0.00- 20.00 | 85.79 | BA |
| 4.897 | 4.898 | -0.001 | 942818 | 0.46284 | 660 | 0.00- 20.00 | 50.91 | BA |
| 4.964 | 4.963 | 0.001 | 2225023 | 0.40622 | 580 | 0.00- 20.00 | 120.15 | BA |
| 5.123 | 5.123 | 0.000 | 1230948 | 0.32537 | 470 | 0.00- 20.00 | 66.47 | BA |
| | | | Average of Peak Concentrations = | | 670 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1432249 | 0.25396 | 360 | 0.00- 20.00 | 100.00(M) | CO |
| 5.493 | 5.492 | 0.001 | 863239 | 0.18509 | 270 | 0.00- 20.00 | 60.27 | CO |
| 5.596 | 5.596 | 0.000 | 1706686 | 0.19933 | 290 | 0.00- 20.00 | 119.16 | CO |
| 6.112 | 6.113 | -0.001 | 952027 | 0.17919 | 260 | 0.00- 20.00 | 66.47 | CO |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | CO |
| | | | Average of Peak Concentrations = | | 290 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 2523593 | 0.25211 | 360 | 0.00- 20.00 | 100.00(M) | BA |
| 7.089 | 7.090 | -0.001 | 1609398 | 0.13675 | 200 | 0.00- 20.00 | 63.77 | BA |
| 7.337 | 7.338 | -0.001 | 645062 | 0.11404 | 160 | 0.00- 20.00 | 25.56 | BA |
| 7.528 | 7.529 | -0.001 | 606018 | 0.17726 | 250 | 0.00- 20.00 | 24.01 | BA |
| 7.986 | 7.987 | -0.001 | 457937 | 0.14459 | 210 | 0.00- 20.00 | 18.15 | BA |
| | | | Average of Peak Concentrations = | | 240 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 6383243 | 0.04793 | 69 | | | |

QC Flag Legend

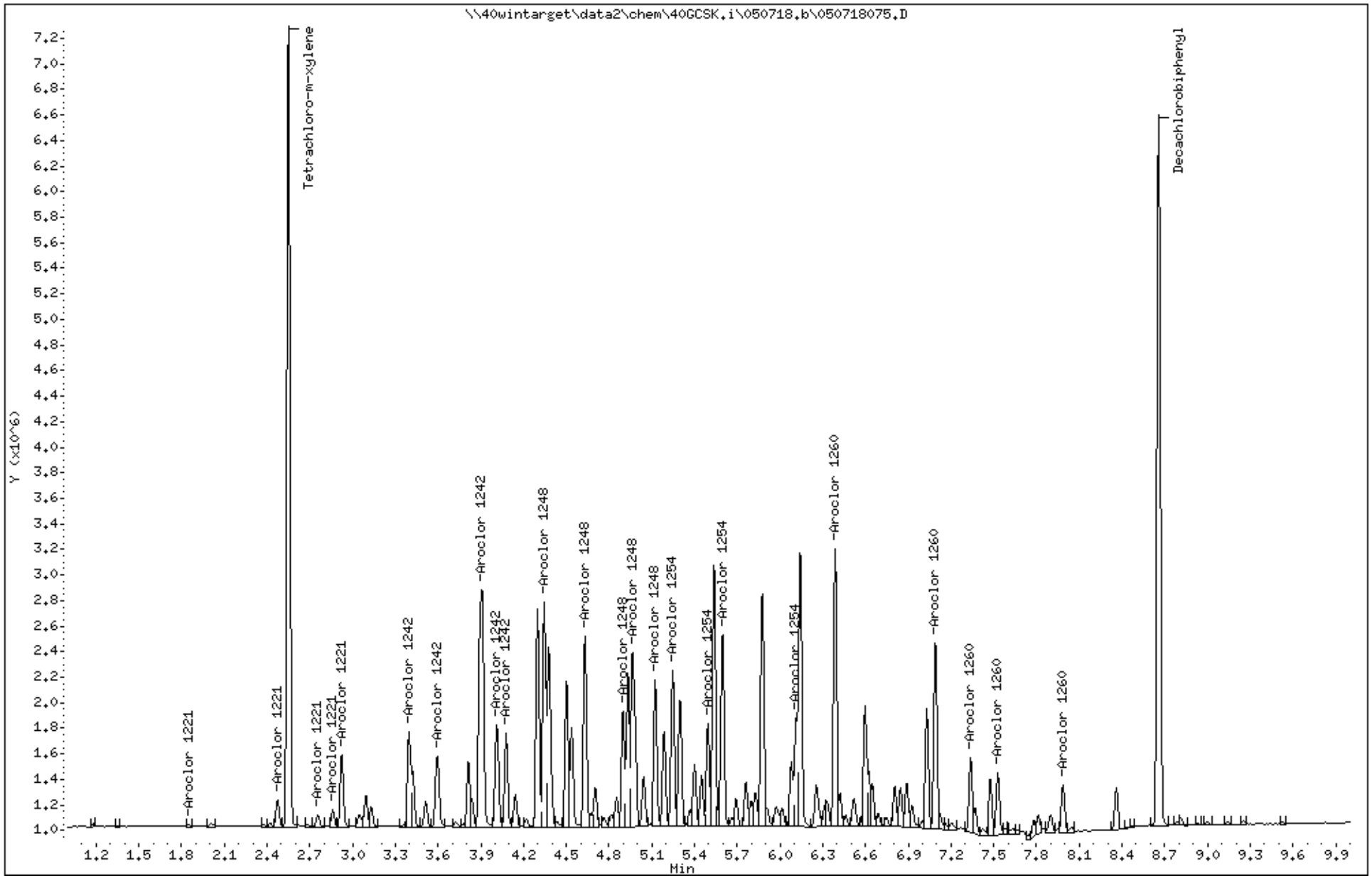
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

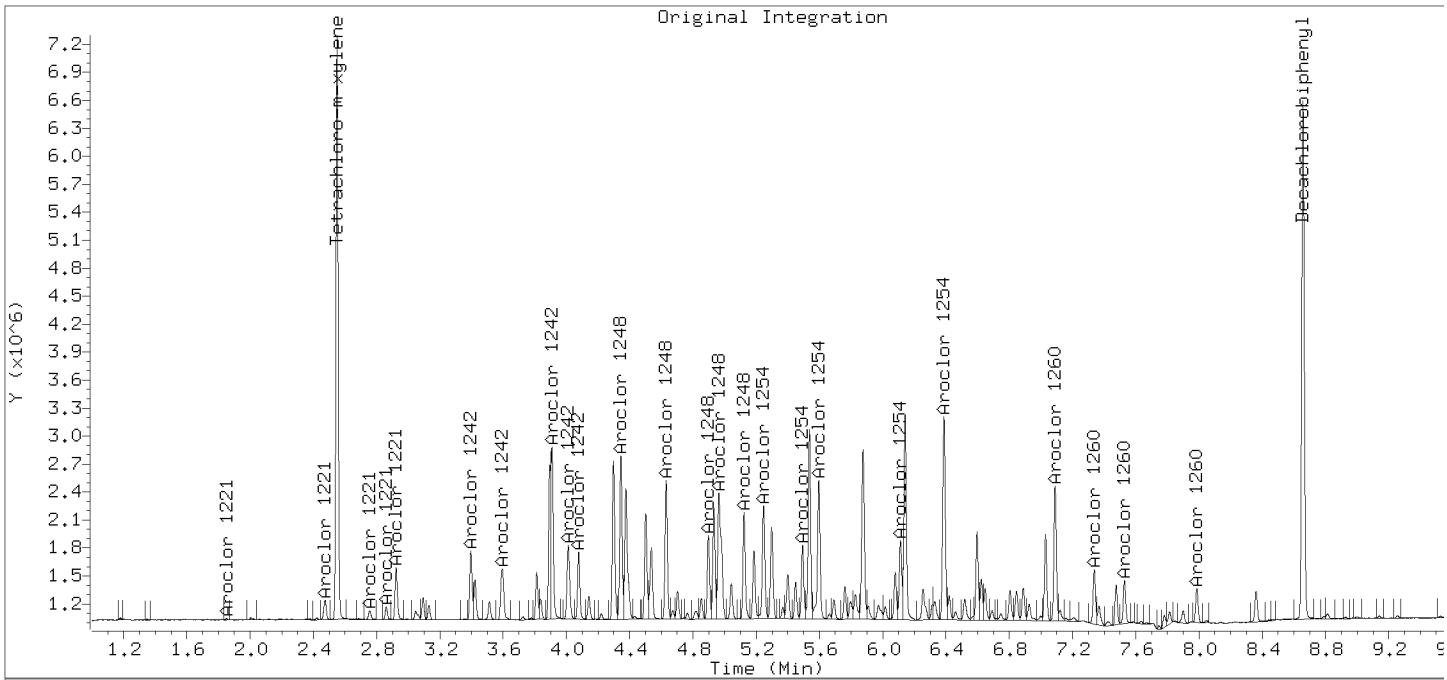
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

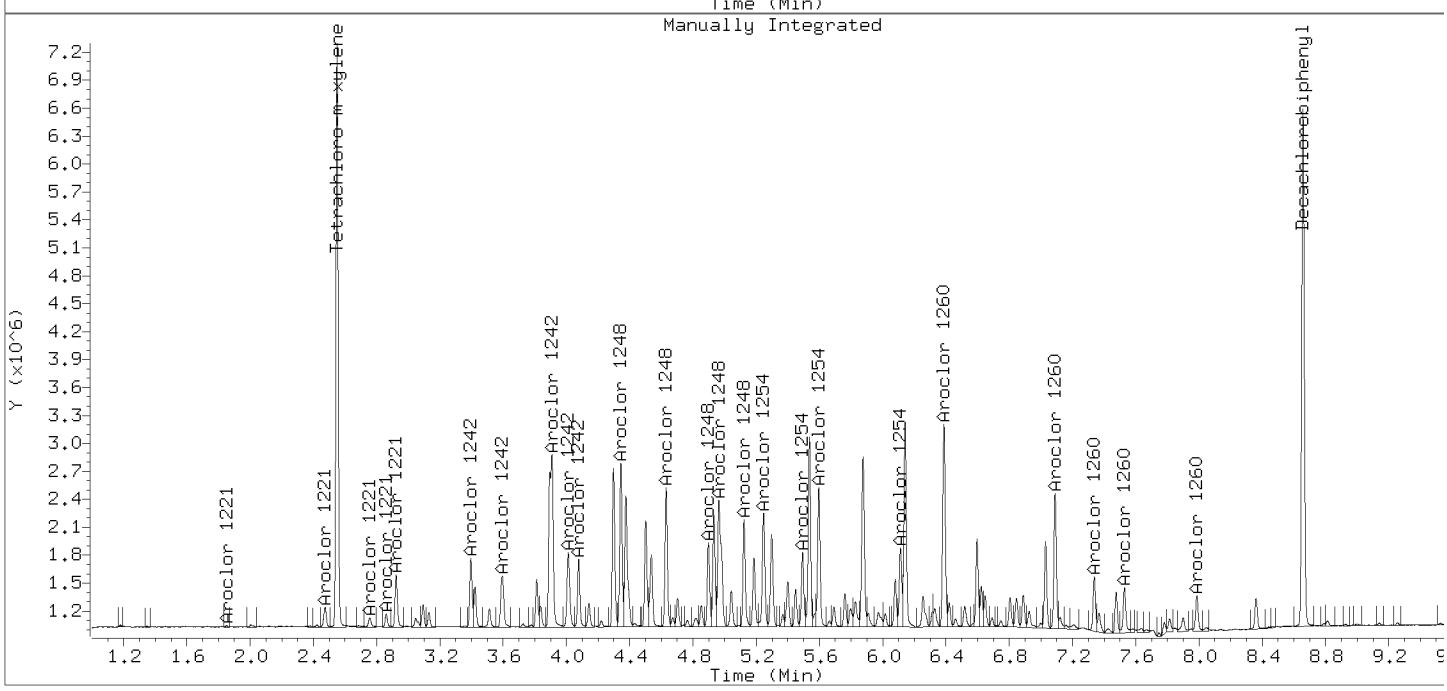
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718075.D
Date : 08-MAY-2018 13:48
Client ID: AT1-170830-01-SFSH-
Sample Info: 1682675 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718075.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 13:48 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682675




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 776436 | 0 | |
| Aroclor 1016 | 776436 | 0 | |
| Aroclor 1016 | 776436 | 0 | |
| Aroclor 1016 | 776436 | 0 | |
| Aroclor 1016 | 776436 | 0 | |
| Aroclor 1221 | 15990 | 20172 | BA |
| Aroclor 1221 | 15990 | 20172 | BA |
| Aroclor 1221 | 15990 | 20172 | BA |
| Aroclor 1221 | 15990 | 20172 | BA |
| Aroclor 1221 | 15990 | 20172 | BA |
| Aroclor 1232 | 595966 | 0 | |
| Aroclor 1232 | 595966 | 0 | |
| Aroclor 1232 | 595966 | 0 | |
| Aroclor 1232 | 595966 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 595966 | 0 | |
| Aroclor 1242 | 776436 | 781875 | BA |
| Aroclor 1242 | 776436 | 781875 | BA |
| Aroclor 1242 | 776436 | 781875 | BA |
| Aroclor 1242 | 776436 | 781875 | BA |
| Aroclor 1242 | 776436 | 781875 | BA |
| Aroclor 1248 | 1835299 | 1851922 | BA |
| Aroclor 1248 | 1835299 | 1851922 | BA |
| Aroclor 1248 | 1835299 | 1851922 | BA |
| Aroclor 1248 | 1835299 | 1851922 | BA |
| Aroclor 1248 | 1835299 | 1851922 | BA |
| Aroclor 1254 | 1388781 | 1432249 | CO |
| Aroclor 1254 | 1388781 | 1432249 | CO |
| Aroclor 1254 | 1388781 | 1432249 | CO |
| Aroclor 1254 | 1388781 | 1432249 | CO |
| Aroclor 1254 | 1388781 | 1432249 | CO |
| Aroclor 1260 | 2534765 | 2523593 | BA |
| Aroclor 1260 | 2534765 | 2523593 | BA |
| Aroclor 1260 | 2534765 | 2523593 | BA |
| Aroclor 1260 | 2534765 | 2523593 | BA |
| Aroclor 1260 | 2534765 | 2523593 | BA |
| Tetrachloro-m-xylene | 6023153 | 6072392 | BA |
| Decachlorobiphenyl | 6383243 | 6383243 | |

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682677

Date Analyzed: 05/08/2018 14:35

Lab File ID: 050718.B\050718078.D

Initial wt/vol: 6.4488 g Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <35.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 115 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <35.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <35.4 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 400 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 234 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 222 | |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718078.D
Lab Smp Id: 1682677 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 14:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682677 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 78 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 6.449 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.180 | 15794 | 17603 | 1.115 | 0.03 | | |
| 1.851 | 14241 | 10279 | 0.722 | 0.02 | 1 Aroclor 1221 | BA |
| 2.003 | 38464 | 23261 | 0.605 | 0.07 | | |
| 2.423 | 23090 | 19414 | 0.841 | 0.04 | | |
| 2.475 | 162180 | 144686 | 0.892 | 0.32 | 1 Aroclor 1221 | BA |
| 2.550 | 5456360 | 5508775 | 1.010 | 10.98 | $ 2 Tetrachloro-m-xylene | BA |
| 2.751 | 16174 | 13015 | 0.805 | 0.03 | 1 Aroclor 1221 | BA |
| 2.859 | 28510 | 22760 | 0.798 | 0.05 | 1 Aroclor 1221 | BA |
| 2.928 | 42501 | 27402 | 0.645 | 0.08 | 1 Aroclor 1221 | BA |
| 3.047 | 119285 | 80868 | 0.678 | 0.24 | | |
| 3.094 | 204866 | 207294 | 1.012 | 0.41 | | |
| 3.131 | 86111 | 80502 | 0.935 | 0.17 | | |
| 3.396 | 47833 | 41816 | 0.874 | 0.09 | | |
| 3.422 | 41402 | 34706 | 0.838 | 0.08 | | |
| 3.513 | 96173 | 82045 | 0.853 | 0.19 | | |
| 3.600 | 42003 | 33577 | 0.799 | 0.08 | | |
| 3.625 | 17376 | 16675 | 0.960 | 0.03 | | |
| 3.725 | 34510 | 25260 | 0.732 | 0.06 | | |
| 3.812 | 291327 | 276704 | 0.950 | 0.58 | | |
| 3.838 | 106484 | 100835 | 0.947 | 0.21 | | |
| 3.896 | 1077046 | 639830 | 0.594 | 2.16 | | |
| 4.021 | 99726 | 60424 | 0.606 | 0.20 | | |
| 4.077 | 155421 | 138721 | 0.893 | 0.31 | | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.142 | 111393 | 94371 | 0.847 | 0.22 | |
| 4.298 | 1232316 | 1147017 | 0.931 | 2.48 | |
| 4.344 | 1259770 | 1215289 | 0.965 | 2.53 | 6 Aroclor 1248 |
| 4.376 | 1249083 | 1074604 | 0.860 | 2.51 | |
| 4.433 | 46914 | 33314 | 0.710 | 0.09 | |
| 4.502 | 520171 | 495740 | 0.953 | 1.04 | |
| 4.536 | 411824 | 351017 | 0.852 | 0.82 | |
| 4.631 | 727245 | 695076 | 0.956 | 1.46 | 6 Aroclor 1248 |
| 4.672 | 89874 | 79456 | 0.884 | 0.18 | |
| 4.703 | 137852 | 123926 | 0.899 | 0.27 | |
| 4.740 | 21695 | 21148 | 0.975 | 0.04 | |
| 4.765 | 66817 | 57280 | 0.857 | 0.13 | |
| 4.822 | 91844 | 69302 | 0.755 | 0.18 | |
| 4.852 | 178503 | 165677 | 0.928 | 0.35 | |
| 4.898 | 490898 | 464415 | 0.946 | 0.98 | 6 Aroclor 1248 |
| 4.933 | 527141 | 494986 | 0.939 | 1.06 | |
| 4.964 | 1229482 | 645246 | 0.525 | 2.47 | 6 Aroclor 1248 |
| 5.043 | 320891 | 280736 | 0.875 | 0.64 | |
| 5.123 | 471467 | 415102 | 0.880 | 0.94 | 6 Aroclor 1248 |
| 5.185 | 600991 | 553448 | 0.921 | 1.20 | |
| 5.246 | 1113316 | 968052 | 0.870 | 2.24 | 7 Aroclor 1254 |
| 5.298 | 915673 | 786071 | 0.858 | 1.84 | |
| 5.368 | 117530 | 108557 | 0.924 | 0.23 | |
| 5.399 | 451741 | 392321 | 0.868 | 0.90 | |
| 5.449 | 296004 | 276904 | 0.935 | 0.59 | |
| 5.492 | 610115 | 570592 | 0.935 | 1.22 | 7 Aroclor 1254 |
| 5.536 | 1749621 | 1677110 | 0.959 | 3.52 | |
| 5.567 | 94818 | 99948 | 1.054 | 0.19 | |
| 5.595 | 1281767 | 1137543 | 0.887 | 2.58 | 7 Aroclor 1254 |
| 5.663 | 60557 | 54180 | 0.895 | 0.12 | |
| 5.692 | 143022 | 123070 | 0.860 | 0.28 | |
| 5.760 | 320628 | 296857 | 0.926 | 0.64 | |
| 5.797 | 210347 | 160832 | 0.765 | 0.42 | |
| 5.827 | 302525 | 211990 | 0.701 | 0.60 | |
| 5.875 | 1781525 | 1480866 | 0.831 | 3.58 | |
| 5.908 | 152596 | 122034 | 0.800 | 0.30 | |
| 5.973 | 211815 | 120790 | 0.570 | 0.42 | |
| 6.016 | 140534 | 115854 | 0.824 | 0.28 | |
| 6.078 | 464813 | 433558 | 0.933 | 0.93 | |
| 6.112 | 674492 | 621573 | 0.922 | 1.35 | 7 Aroclor 1254 |
| 6.140 | 2090308 | 1840480 | 0.880 | 4.20 | |
| 6.255 | 393503 | 270796 | 0.688 | 0.79 | |
| 6.313 | 124860 | 130944 | 1.049 | 0.25 | |
| 6.329 | 201488 | 166647 | 0.827 | 0.40 | |
| 6.386 | 2169953 | 1825742 | 0.841 | 4.36 | 8 Aroclor 1260 |
| 6.420 | 233515 | 211901 | 0.907 | 0.47 | |
| 6.459 | 82156 | 69821 | 0.850 | 0.16 | |
| 6.517 | 238847 | 191377 | 0.801 | 0.48 | |
| 6.596 | 876758 | 808435 | 0.922 | 1.76 | |
| 6.623 | 374431 | 360305 | 0.962 | 0.75 | |
| 6.647 | 317312 | 286072 | 0.902 | 0.63 | |
| 6.690 | 98004 | 88110 | 0.899 | 0.19 | |
| 6.747 | 61887 | 53221 | 0.860 | 0.12 | |
| 6.804 | 293115 | 266530 | 0.909 | 0.59 | |
| 6.846 | 305480 | 267246 | 0.875 | 0.61 | |
| 6.888 | 342881 | 309711 | 0.903 | 0.69 | |
| 6.926 | 172879 | 149301 | 0.864 | 0.34 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 7.000 | 53578 | 44547 | 0.831 | 0.10 | |
| 7.030 | 845267 | 792073 | 0.937 | 1.70 | |
| 7.089 | 1397510 | 1274346 | 0.912 | 2.81 | 8 Aroclor 1260 |
| 7.120 | 143292 | 107811 | 0.752 | 0.28 | |
| 7.159 | 39381 | 34569 | 0.878 | 0.07 | |
| 7.184 | 15920 | 25343 | 1.592 | 0.03 | |
| 7.210 | 85461 | 43060 | 0.504 | 0.17 | |
| 7.337 | 558863 | 514632 | 0.921 | 1.12 | 8 Aroclor 1260 |
| 7.367 | 226259 | 169703 | 0.750 | 0.45 | |
| 7.424 | 86935 | 39851 | 0.458 | 0.17 | |
| 7.476 | 447517 | 402481 | 0.899 | 0.90 | |
| 7.528 | 531297 | 416859 | 0.785 | 1.06 | 8 Aroclor 1260 |
| 7.580 | 80824 | 38204 | 0.473 | 0.16 | |
| 7.620 | 19723 | 25863 | 1.311 | 0.03 | |
| 7.634 | 48634 | 38415 | 0.790 | 0.09 | |
| 7.666 | 32288 | 24159 | 0.748 | 0.06 | |
| 7.747 | 25387 | 27138 | 1.069 | 0.05 | |
| 7.777 | 127552 | 114064 | 0.894 | 0.25 | |
| 7.813 | 158877 | 120381 | 0.758 | 0.31 | |
| 7.845 | 56640 | 33394 | 0.590 | 0.11 | |
| 7.899 | 188198 | 128919 | 0.685 | 0.37 | |
| 7.949 | 39445 | 24229 | 0.614 | 0.07 | |
| 7.986 | 396678 | 325479 | 0.821 | 0.79 | 8 Aroclor 1260 |
| 8.021 | 12699 | 19474 | 1.533 | 0.02 | |
| 8.044 | 58798 | 33123 | 0.563 | 0.11 | |
| 8.094 | 17742 | 10957 | 0.618 | 0.03 | |
| 8.136 | 20569 | 14016 | 0.681 | 0.04 | |
| 8.360 | 319657 | 287396 | 0.899 | 0.64 | |
| 8.657 | 5960670 | 5328918 | 0.894 | 12.60 | $ 12 Decachlorobiphenyl |
| 8.788 | 21674 | 21621 | 0.998 | 0.04 | |
| 8.812 | 61053 | 48990 | 0.802 | 0.12 | |
| 8.927 | 17873 | 13347 | 0.747 | 0.03 | |
| 9.000 | 20178 | 13058 | 0.647 | 0.04 | |
| 9.137 | 27478 | 21496 | 0.782 | 0.05 | |
| 9.252 | 29254 | 24412 | 0.834 | 0.05 | |
| 9.528 | 24169 | 15171 | 0.628 | 0.04 | |
| | 49671210 | 43756442 | | 100.000 | |

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718078.D
Lab Smp Id: 1682677 Client Smp ID: AT1-170830-01-SFSH-
Inj Date : 08-MAY-2018 14:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682677 x2,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 78 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 6.449 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.851 | 1.853 | -0.002 | 14240 | 0.01438 | 22 | 0.00- 20.00 | 100.00(M) | BA |
| 2.475 | 2.471 | 0.004 | 162180 | 0.30763 | 480 | 0.00- 20.00 | 1138.90 | BA |
| 2.751 | 2.758 | -0.007 | 16174 | 0.01166 | 18 | 0.00- 20.00 | 113.58 | BA |
| 2.862 | 2.860 | 0.002 | 28509 | 0.02583 | 40 | 0.00- 20.00 | 200.20 | BA |
| 2.928 | 2.923 | 0.005 | 42501 | 0.01271 | 20 | 0.00- 20.00 | 298.46 | BA |
| Average of Peak Concentrations = | | | | | 120 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.550 | 2.549 | 0.001 | 5456359 | 0.04530 | 70 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 1259769 | 0.52813 | 820 | 0.00- 20.00 | 100.00(M) | BA |
| 4.630 | 4.630 | 0.000 | 727244 | 0.17122 | 260 | 0.00- 20.00 | 57.73 | BA |
| 4.897 | 4.898 | -0.001 | 490897 | 0.24099 | 370 | 0.00- 20.00 | 38.97 | BA |
| 4.964 | 4.963 | 0.001 | 1229481 | 0.22446 | 350 | 0.00- 20.00 | 97.60 | BA |
| 5.123 | 5.123 | 0.000 | 471467 | 0.12462 | 190 | 0.00- 20.00 | 37.42 | BA |
| Average of Peak Concentrations = | | | | | 400 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 1113316 | 0.19741 | 310 | 0.00- 20.00 | 100.00(M) | BA |
| 5.492 | 5.492 | 0.000 | 610115 | 0.13082 | 200 | 0.00- 20.00 | 54.80 | BA |
| 5.595 | 5.596 | -0.001 | 1281767 | 0.14970 | 230 | 0.00- 20.00 | 115.13 | BA |
| 6.112 | 6.113 | -0.001 | 674492 | 0.12695 | 200 | 0.00- 20.00 | 60.58 | BA |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 230 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.386 | 6.387 | -0.001 | 2169953 | 0.21678 | 340 | 0.00- 20.00 | 100.00(M) | BA |
| 7.089 | 7.090 | -0.001 | 1397509 | 0.11874 | 180 | 0.00- 20.00 | 64.40 | BA |
| 7.337 | 7.338 | -0.001 | 558863 | 0.09880 | 150 | 0.00- 20.00 | 25.75 | BA |
| 7.527 | 7.529 | -0.002 | 531296 | 0.15540 | 240 | 0.00- 20.00 | 24.48 | BA |
| 7.985 | 7.987 | -0.002 | 396678 | 0.12525 | 190 | 0.00- 20.00 | 18.28 | BA |
| Average of Peak Concentrations = | | | | | 220 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.657 | 8.657 | 0.000 | 5960670 | 0.04475 | 69 | | | |

QC Flag Legend

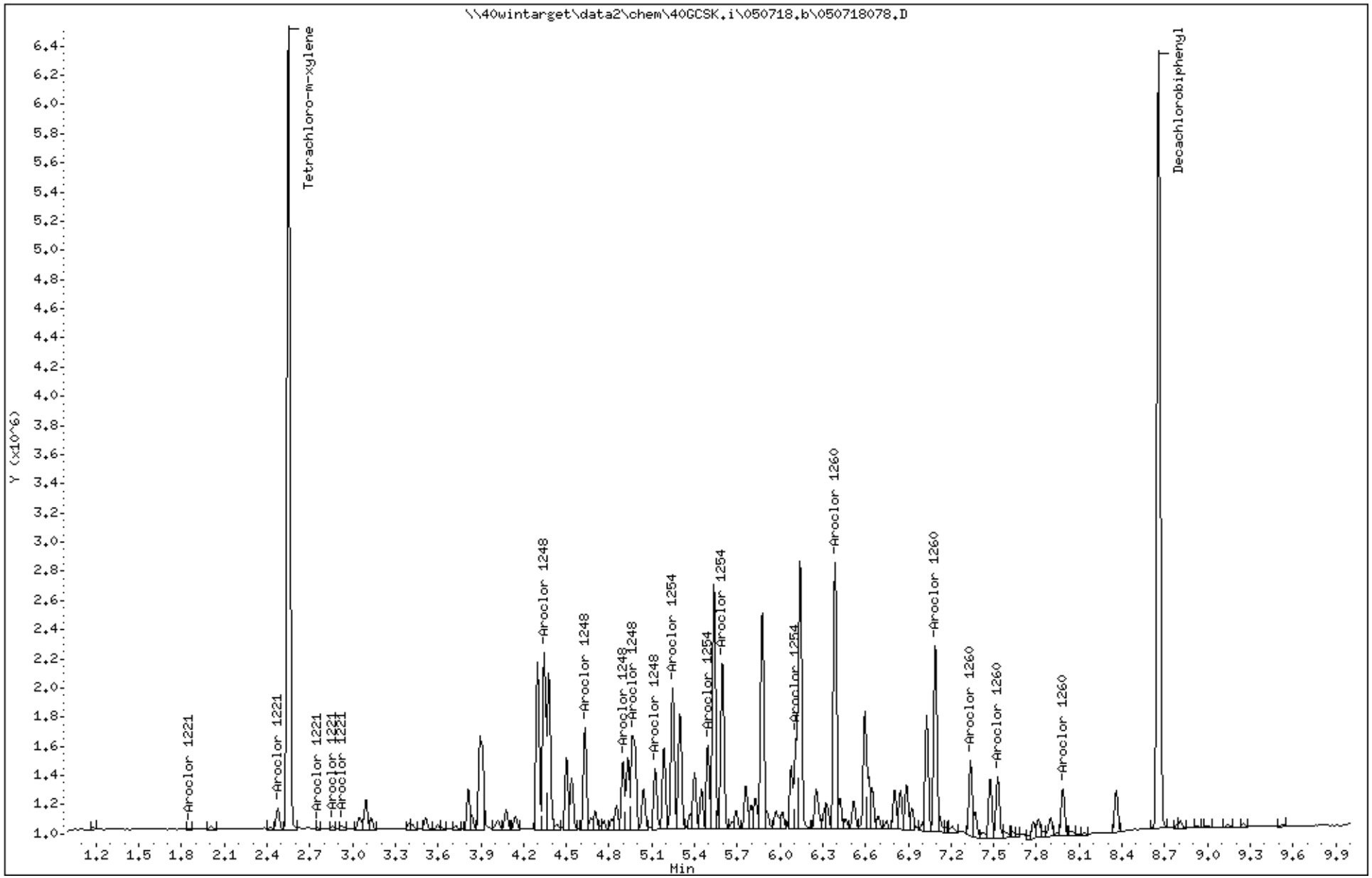
M - Compound response manually integrated.

Review Codes Legend

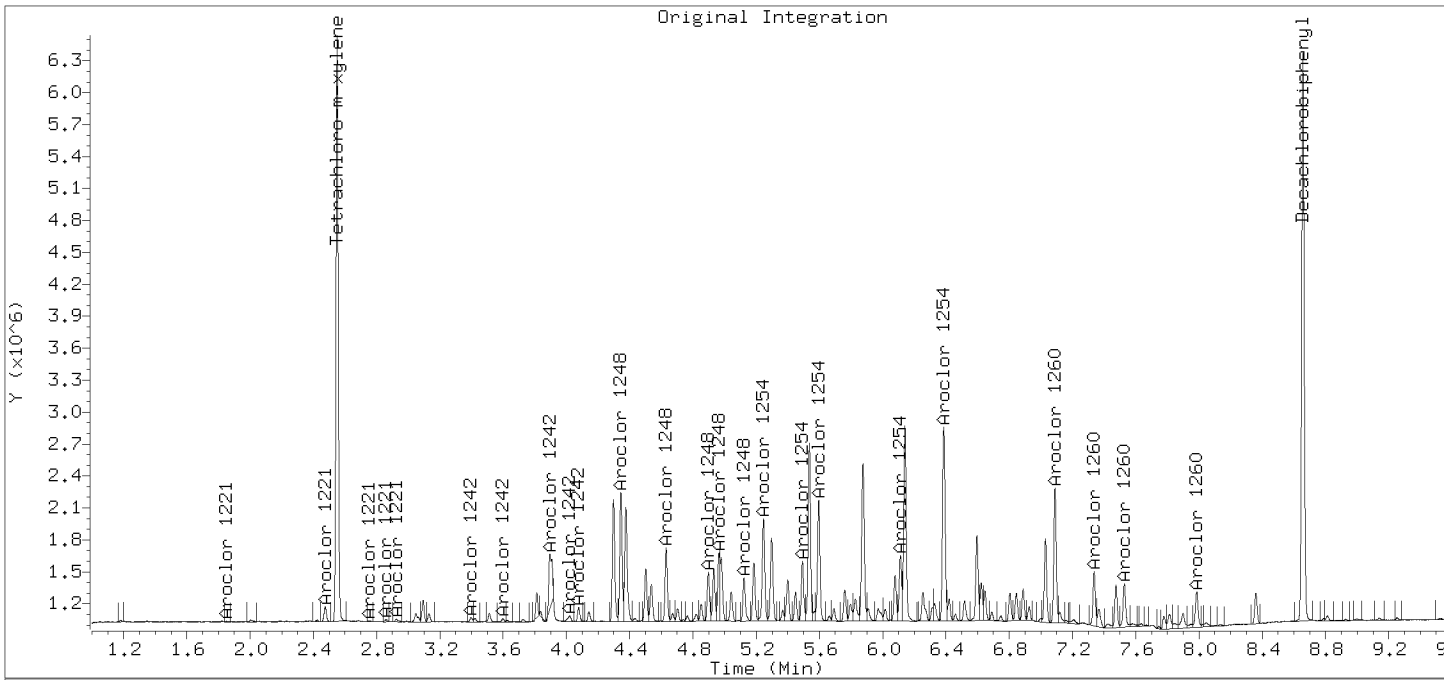
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

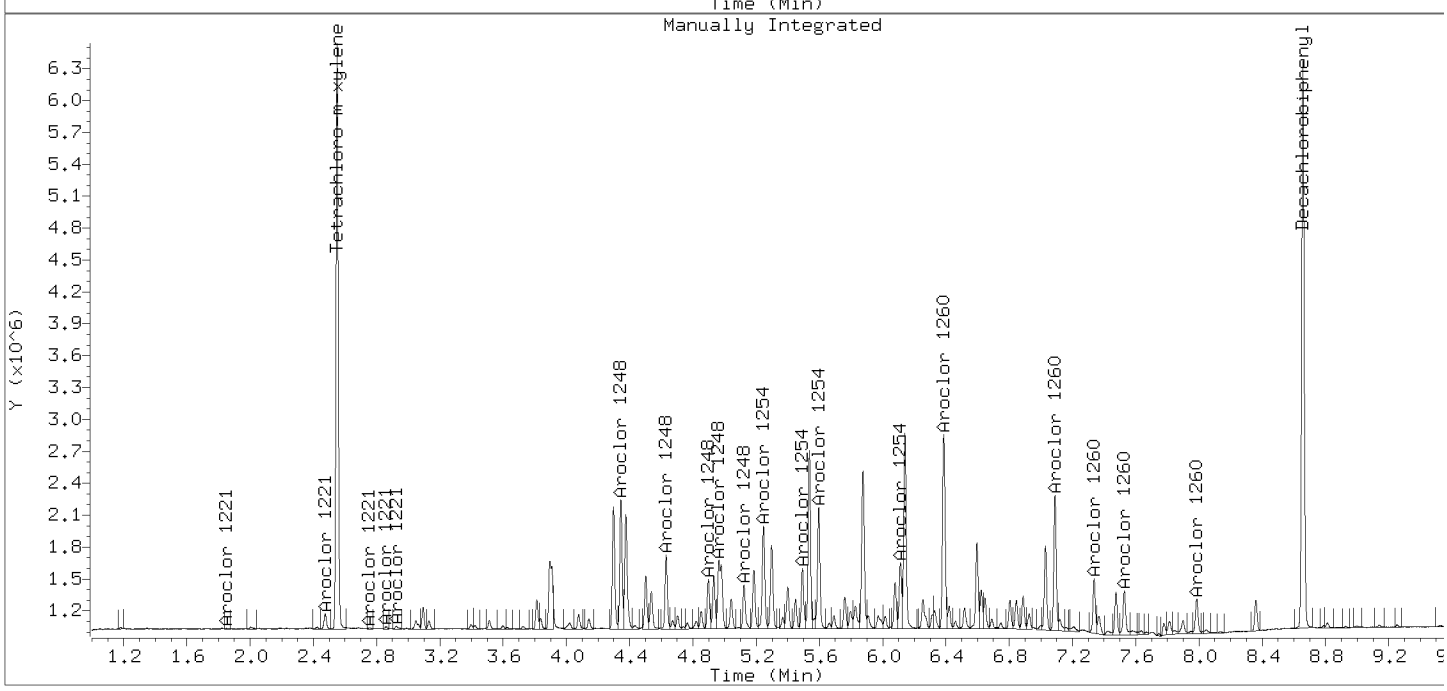
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718078.D
Date : 08-MAY-2018 14:35
Client ID: AT1-170830-01-SFSH-
Sample Info: 1682677 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718078.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 14:35 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682677




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 44984 | 0 | |
| Aroclor 1016 | 44984 | 0 | |
| Aroclor 1016 | 44984 | 0 | |
| Aroclor 1016 | 44984 | 0 | |
| Aroclor 1016 | 44984 | 0 | |
| Aroclor 1221 | 9636 | 14240 | BA |
| Aroclor 1221 | 9636 | 14240 | BA |
| Aroclor 1221 | 9636 | 14240 | BA |
| Aroclor 1221 | 9636 | 14240 | BA |
| Aroclor 1221 | 9636 | 14240 | BA |
| Aroclor 1232 | 34675 | 0 | |
| Aroclor 1232 | 34675 | 0 | |
| Aroclor 1232 | 34675 | 0 | |
| Aroclor 1232 | 34675 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 34675 | 0 | |
| Aroclor 1242 | 44984 | 0 | |
| Aroclor 1242 | 44984 | 0 | |
| Aroclor 1242 | 44984 | 0 | |
| Aroclor 1242 | 44984 | 0 | |
| Aroclor 1242 | 44984 | 0 | |
| Aroclor 1248 | 1250604 | 1259769 | BA |
| Aroclor 1248 | 1250604 | 1259769 | BA |
| Aroclor 1248 | 1250604 | 1259769 | BA |
| Aroclor 1248 | 1250604 | 1259769 | BA |
| Aroclor 1248 | 1250604 | 1259769 | BA |
| Aroclor 1254 | 1078573 | 1113316 | BA |
| Aroclor 1254 | 1078573 | 1113316 | BA |
| Aroclor 1254 | 1078573 | 1113316 | BA |
| Aroclor 1254 | 1078573 | 1113316 | BA |
| Aroclor 1254 | 1078573 | 1113316 | BA |
| Aroclor 1260 | 2150085 | 2169953 | BA |
| Aroclor 1260 | 2150085 | 2169953 | BA |
| Aroclor 1260 | 2150085 | 2169953 | BA |
| Aroclor 1260 | 2150085 | 2169953 | BA |
| Aroclor 1260 | 2150085 | 2169953 | BA |
| Tetrachloro-m-xylene | 5417434 | 5456359 | BA |
| Decachlorobiphenyl | 5960670 | 5960670 | |

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683452

Date Analyzed: 05/08/2018 15:07

Lab File ID: 050718.B\050718080.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <11.4 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718080.D
Lab Smp Id: 1683452 Client Smp ID: MB
Inj Date : 08-MAY-2018 15:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683452,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 80 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 2.549 | 9271159 | 9615203 | 1.037 | 44.26 | $ 2 Tetrachloro-m-xylene | |
| 2.859 | 17821 | 15554 | 0.873 | 0.08 | | |
| 2.926 | 34614 | 21837 | 0.631 | 0.16 | | |
| 2.987 | 14253 | 11738 | 0.824 | 0.06 | | |
| 4.318 | 15122 | 10049 | 0.665 | 0.07 | | |
| 4.614 | 10129 | 8516 | 0.841 | 0.04 | | |
| 5.425 | 12413 | 10838 | 0.873 | 0.05 | | |
| 7.814 | 53596 | 36046 | 0.673 | 0.25 | | |
| 7.886 | 40559 | 23279 | 0.574 | 0.19 | | |
| 8.361 | 102073 | 88035 | 0.862 | 0.48 | | |
| 8.658 | 11341717 | 9920669 | 0.875 | 54.23 | $ 12 Decachlorobiphenyl | |
| 9.524 | 29123 | 18962 | 0.651 | 0.13 | | |
| | 20942579 | 19780726 | | 100.000 | | |

Total unknown % area = 1.5

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718080.D
Lab Smp Id: 1683452 Client Smp ID: MB
Inj Date : 08-MAY-2018 15:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683452,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 80 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | | CAS #: 11104-28-2 | | |

Peaks not detected for Quant. or Qual. signal(s).

---

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 2 Tetrachloro-m-xylene | | | | | | CAS #: 877-09-8 | | |
| 2.549 | 2.549 | 0.000 | 9271159 | 0.07698 | 38 | | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 Aroclor 1242 | | | | | | CAS #: 53469-21-9 | | |

Peaks not detected for Quant. or Qual. signal(s).

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | | CAS #: 1114-16-5 | | |

Peaks not detected for Quant. or Qual. signal(s).

---

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

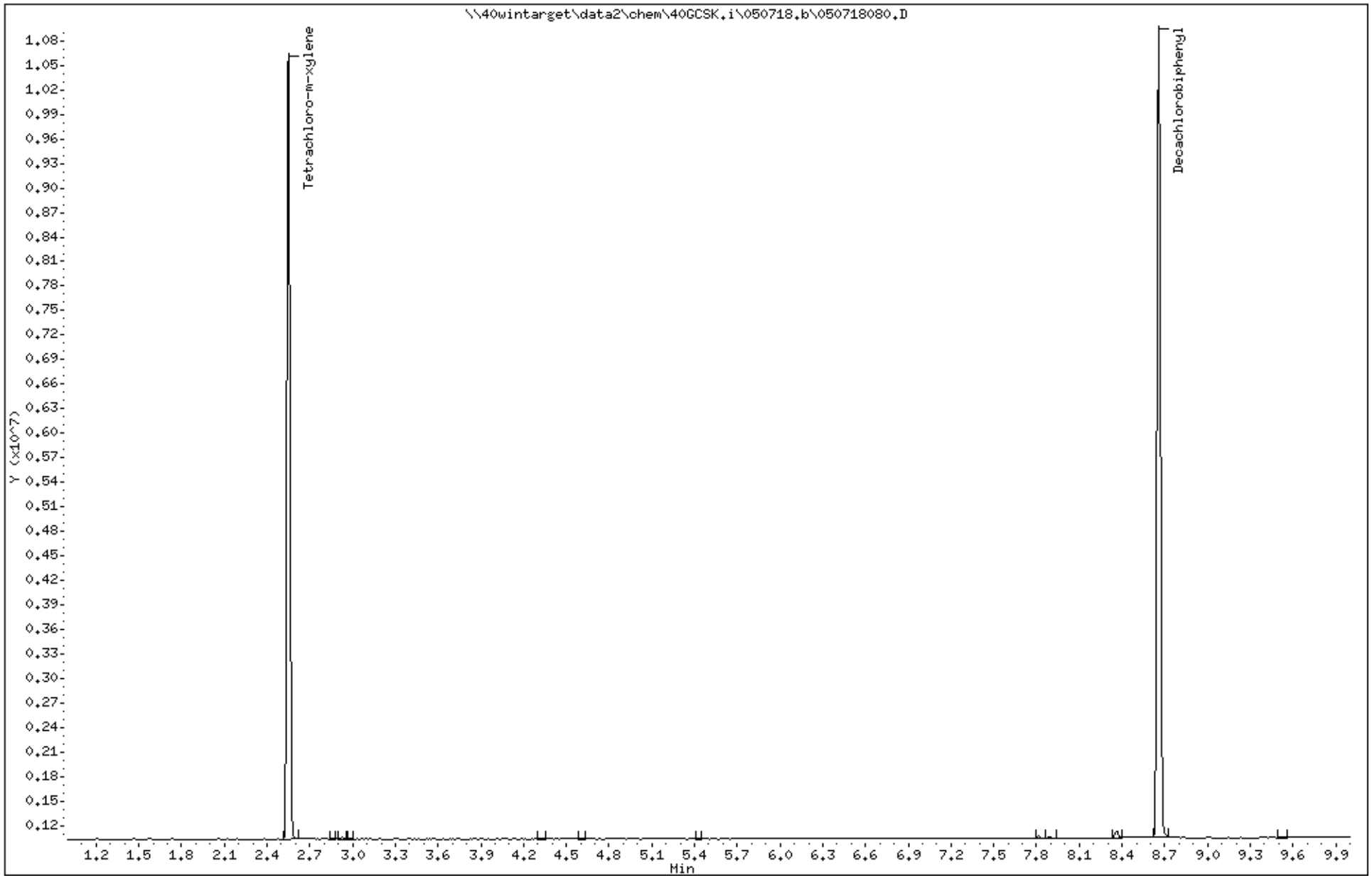
---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8.657 | 8.657 | 0.000 | 11341717 | 0.08515 | 42 | | | |

---

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718080.D
Date : 08-MAY-2018 15:07
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1683452,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718080.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 15:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683452

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1016 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1221 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1232 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1242 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1248 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1254 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 9271159 | 9271159 | |
| Decachlorobiphenyl | 11341717 | 11341717 | |

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683453

Date Analyzed: 05/08/2018 15:23

Lab File ID: 050718.B\050718081.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <11.4 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | <11.4 | U |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <11.4 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | 256 | |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | <11.4 | U |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | <11.4 | U |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | <11.4 | U |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718081.D
Lab Smp Id: 1683453 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 15:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683453,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 81 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|
| 1.205 | 17488 | 19272 | 1.102 | 0.03 | | |
| 1.460 | 13485 | 11281 | 0.837 | 0.02 | | |
| 1.730 | 25002 | 22999 | 0.920 | 0.04 | | |
| 1.854 | 15634 | 15640 | 1.000 | 0.03 | | |
| 2.061 | 11435 | 10384 | 0.908 | 0.02 | | |
| 2.471 | 121621 | 96932 | 0.797 | 0.23 | | |
| 2.550 | 10873002 | 11173923 | 1.028 | 21.09 | $ 2 Tetrachloro-m-xylene | |
| 2.756 | 179164 | 146178 | 0.816 | 0.34 | | |
| 2.862 | 226155 | 211221 | 0.934 | 0.43 | | |
| 2.924 | 1016433 | 937188 | 0.922 | 1.97 | | |
| 2.980 | 23691 | 15924 | 0.672 | 0.04 | | |
| 3.131 | 123854 | 118232 | 0.955 | 0.24 | | |
| 3.356 | 21803 | 18287 | 0.839 | 0.04 | | |
| 3.395 | 1265836 | 1195828 | 0.945 | 2.45 | 3 Aroclor 1242 | BA |
| 3.423 | 750119 | 693963 | 0.925 | 1.45 | | |
| 3.513 | 204525 | 183302 | 0.896 | 0.39 | | |
| 3.594 | 1248668 | 923279 | 0.739 | 2.42 | 3 Aroclor 1242 | BA |
| 3.725 | 20841 | 14509 | 0.696 | 0.04 | | |
| 3.777 | 34440 | 32800 | 0.952 | 0.06 | | |
| 3.813 | 328702 | 319788 | 0.973 | 0.63 | | |
| 3.837 | 224279 | 209000 | 0.932 | 0.43 | | |
| 3.909 | 3754996 | 2154334 | 0.574 | 7.28 | 3 Aroclor 1242 | BA |
| 4.012 | 1607031 | 1318502 | 0.820 | 3.11 | 3 Aroclor 1242 | BA |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.078 | 1046623 | 968261 | 0.925 | 2.03 | 3 Aroclor 1242 |
| 4.143 | 322889 | 262756 | 0.814 | 0.62 | |
| 4.221 | 122732 | 102449 | 0.835 | 0.23 | |
| 4.299 | 874491 | 800286 | 0.915 | 1.69 | |
| 4.345 | 823069 | 778490 | 0.946 | 1.59 | |
| 4.376 | 337588 | 343883 | 1.019 | 0.65 | |
| 4.393 | 409800 | 376722 | 0.919 | 0.79 | |
| 4.454 | 27596 | 22392 | 0.811 | 0.05 | |
| 4.502 | 1124725 | 1080914 | 0.961 | 2.18 | |
| 4.537 | 917622 | 661662 | 0.721 | 1.78 | |
| 4.631 | 1469448 | 1296435 | 0.882 | 2.85 | |
| 4.703 | 334733 | 297993 | 0.890 | 0.64 | |
| 4.761 | 24340 | 18067 | 0.742 | 0.04 | |
| 4.811 | 69970 | 62025 | 0.886 | 0.13 | |
| 4.853 | 79555 | 74731 | 0.939 | 0.15 | |
| 4.898 | 693599 | 677577 | 0.977 | 1.34 | |
| 4.933 | 1231469 | 1163446 | 0.945 | 2.38 | |
| 4.964 | 1566113 | 1188807 | 0.759 | 3.03 | |
| 5.043 | 158710 | 129394 | 0.815 | 0.30 | |
| 5.124 | 1299994 | 1179131 | 0.907 | 2.52 | |
| 5.186 | 255685 | 199328 | 0.780 | 0.49 | |
| 5.247 | 295584 | 262789 | 0.889 | 0.57 | |
| 5.298 | 223308 | 192250 | 0.861 | 0.43 | |
| 5.395 | 45719 | 43147 | 0.944 | 0.08 | |
| 5.427 | 21573 | 23516 | 1.090 | 0.04 | |
| 5.450 | 198084 | 167001 | 0.843 | 0.38 | |
| 5.494 | 314013 | 267160 | 0.851 | 0.60 | |
| 5.532 | 198499 | 172864 | 0.871 | 0.38 | |
| 5.597 | 526081 | 402528 | 0.765 | 1.02 | |
| 5.692 | 150206 | 138165 | 0.920 | 0.29 | |
| 5.763 | 20037 | 15404 | 0.769 | 0.03 | |
| 5.801 | 30244 | 25075 | 0.829 | 0.05 | |
| 5.827 | 40936 | 37804 | 0.923 | 0.07 | |
| 5.878 | 340110 | 296705 | 0.872 | 0.65 | |
| 5.976 | 37064 | 32240 | 0.870 | 0.07 | |
| 6.112 | 338231 | 261607 | 0.773 | 0.65 | |
| 6.328 | 11846 | 9737 | 0.822 | 0.02 | |
| 6.387 | 74170 | 64018 | 0.863 | 0.14 | |
| 6.417 | 12586 | 12902 | 1.025 | 0.02 | |
| 6.458 | 13744 | 10984 | 0.799 | 0.02 | |
| 6.624 | 14964 | 17116 | 1.144 | 0.02 | |
| 6.806 | 13455 | 12190 | 0.906 | 0.02 | |
| 6.890 | 14195 | 13278 | 0.935 | 0.02 | |
| 7.033 | 21444 | 11740 | 0.547 | 0.04 | |
| 7.093 | 22015 | 19551 | 0.888 | 0.04 | |
| 7.338 | 10130 | 8983 | 0.887 | 0.01 | |
| 7.473 | 9974 | 8686 | 0.871 | 0.01 | |
| 7.525 | 11844 | 8704 | 0.735 | 0.02 | |
| 7.813 | 58240 | 38476 | 0.661 | 0.11 | |
| 7.883 | 15919 | 17176 | 1.079 | 0.03 | |
| 8.247 | 12737 | 13979 | 1.097 | 0.02 | |
| 8.264 | 10513 | 10576 | 1.006 | 0.02 | |
| 8.361 | 110142 | 100639 | 0.914 | 0.21 | |
| 8.443 | 46666 | 22491 | 0.482 | 0.09 | |
| 8.534 | 10602 | 7890 | 0.744 | 0.02 | |
| 8.658 | 12777394 | 11054343 | 0.865 | 25.18 | $ 12 Decachlorobiphenyl |
| 9.002 | 72650 | 43975 | 0.605 | 0.14 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 9.530 | 118852 | 67409 | 0.567 | 0.23 | |
| | 51542724 | 45440613 | | 100.000 | |

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718081.D
Lab Smp Id: 1683453 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 15:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683453,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 81 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 10.000 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 10873001 | 0.09028 | 45 | | | |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |
| 3.395 | 3.396 | -0.001 | 1265836 | 0.52299 | 260 | 0.00- 20.00 | 100.00(M) | BA |
| 3.593 | 3.592 | 0.001 | 1248667 | 0.50734 | 250 | 0.00- 20.00 | 98.64 | BA |
| 3.908 | 3.909 | -0.001 | 3754995 | 0.51754 | 260 | 0.00- 20.00 | 296.64 | BA |
| 4.011 | 4.011 | 0.000 | 1607031 | 0.51570 | 260 | 0.00- 20.00 | 126.95 | BA |
| 4.077 | 4.078 | -0.001 | 1046623 | 0.49999 | 250 | 0.00- 20.00 | 82.68 | BA |
| Average of Peak Concentrations = | | | | | 260 | | | |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

| | | | | | | |
|---|---|---|---|---|---|---|
| 8.657 | 8.657 | 0.000 | 12777394 | 0.09593 | 48 | |

---

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718081.D



Date : 08-MAY-2018 15:23

Client ID: MBLCS

Instrument: 40GCSK.i

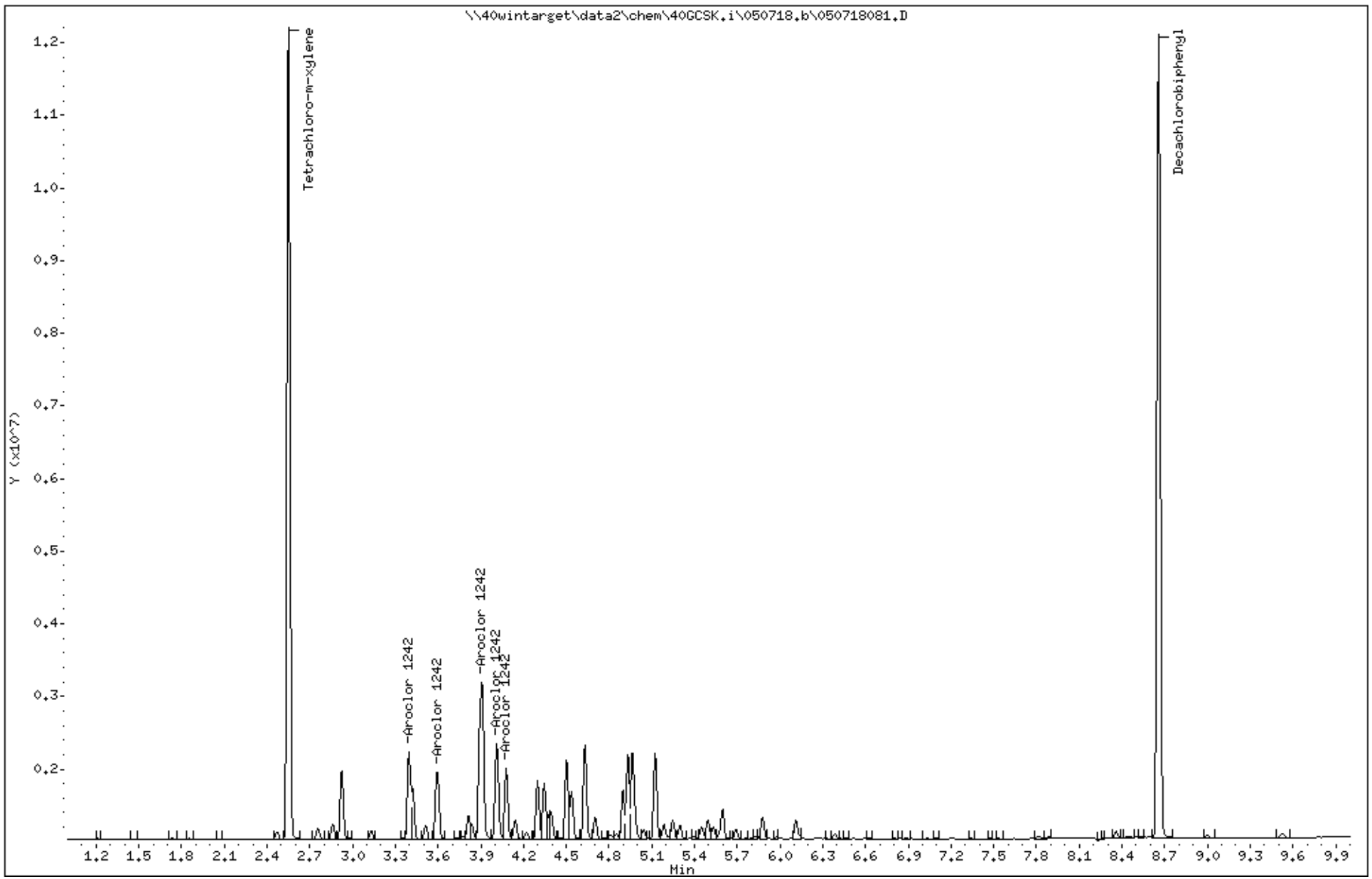
Sample Info: 1683453,

Volume Injected (uL): 1.0

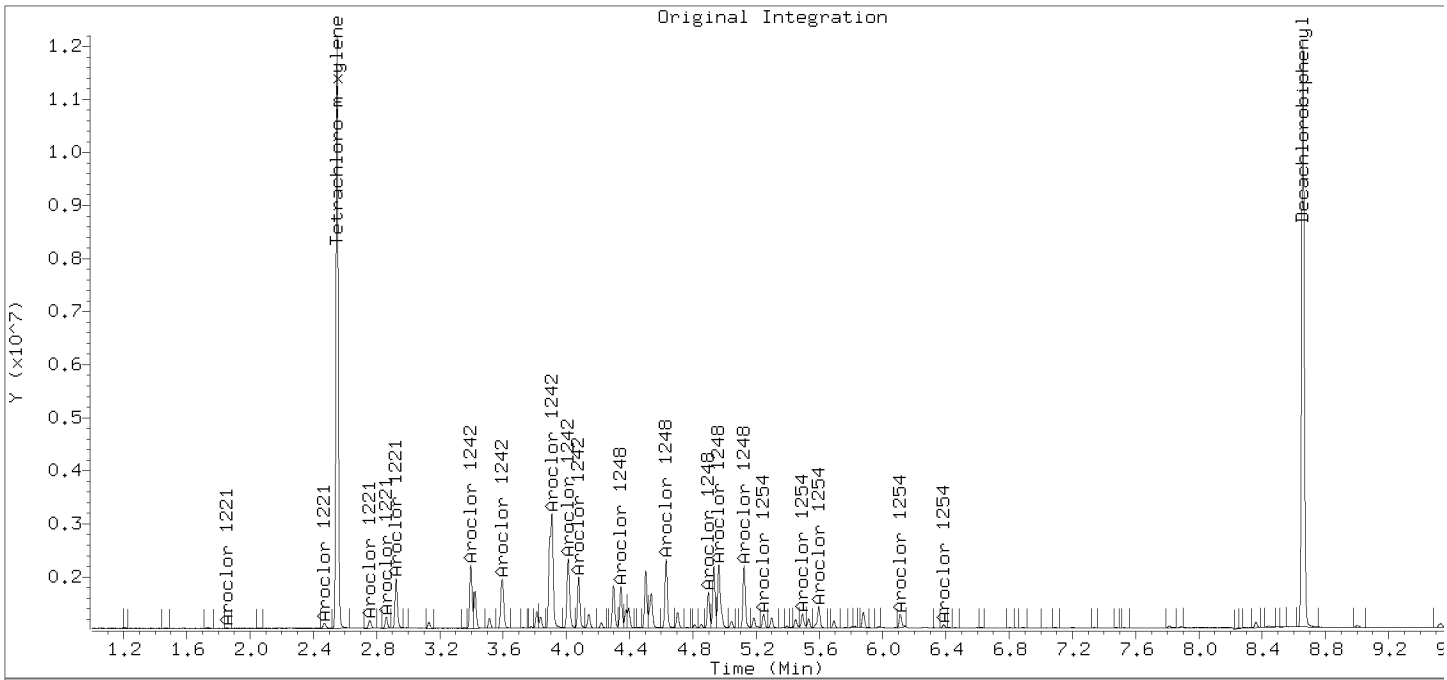
Operator: BLM

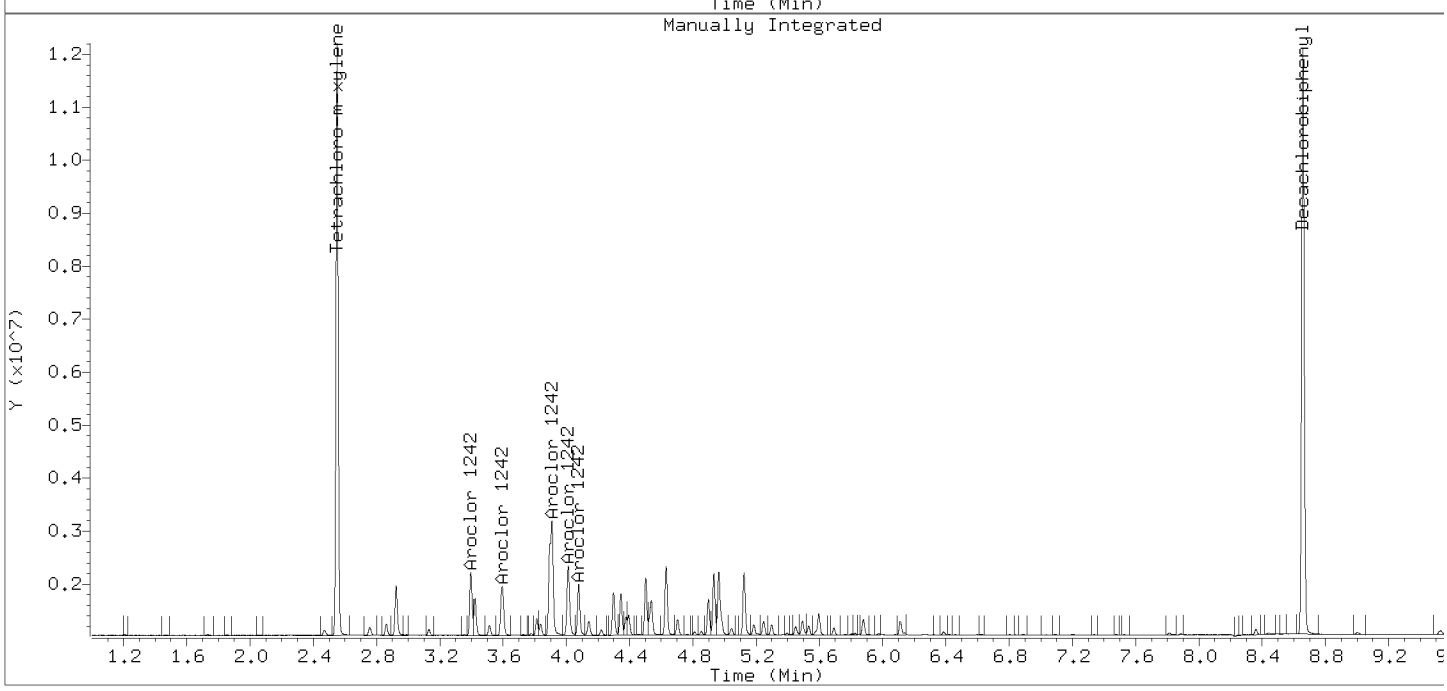
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718081.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 15:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683453




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 1260300 | 0 | |
| Aroclor 1016 | 1260300 | 0 | |
| Aroclor 1016 | 1260300 | 0 | |
| Aroclor 1016 | 1260300 | 0 | |
| Aroclor 1016 | 1260300 | 0 | |
| Aroclor 1221 | 15633 | 0 | |
| Aroclor 1221 | 15633 | 0 | |
| Aroclor 1221 | 15633 | 0 | |
| Aroclor 1221 | 15633 | 0 | |
| Aroclor 1221 | 15633 | 0 | |
| Aroclor 1232 | 992269 | 0 | |
| Aroclor 1232 | 992269 | 0 | |
| Aroclor 1232 | 992269 | 0 | |
| Aroclor 1232 | 992269 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 992269 | 0 | |
| Aroclor 1242 | 1260300 | 1265836 | BA |
| Aroclor 1242 | 1260300 | 1265836 | BA |
| Aroclor 1242 | 1260300 | 1265836 | BA |
| Aroclor 1242 | 1260300 | 1265836 | BA |
| Aroclor 1242 | 1260300 | 1265836 | BA |
| Aroclor 1248 | 805438 | 0 | |
| Aroclor 1248 | 805438 | 0 | |
| Aroclor 1248 | 805438 | 0 | |
| Aroclor 1248 | 805438 | 0 | |
| Aroclor 1248 | 805438 | 0 | |
| Aroclor 1254 | 275115 | 0 | |
| Aroclor 1254 | 275115 | 0 | |
| Aroclor 1254 | 275115 | 0 | |
| Aroclor 1254 | 275115 | 0 | |
| Aroclor 1254 | 275115 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Aroclor 1260 | 0 | 0 | |
| Tetrachloro-m-xylene | 10873001 | 10873001 | |
| Decachlorobiphenyl | 12777394 | 12777394 | |

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158029

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683457

Date Analyzed: 05/08/2018 19:06

Lab File ID: 050718.B\050718095.D

Initial wt/vol: 7.0222 g Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSK Percent Moisture:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: ug/kg | Q |
|---|---|---|---|
| 12674-11-2 | PCB-1016 (Aroclor 1016) | <32.5 | U |
| 11104-28-2 | PCB-1221 (Aroclor 1221) | 122 | J |
| 11141-16-5 | PCB-1232 (Aroclor 1232) | <32.5 | U |
| 53469-21-9 | PCB-1242 (Aroclor 1242) | <32.5 | U |
| 12672-29-6 | PCB-1248 (Aroclor 1248) | 236 | |
| 11097-69-1 | PCB-1254 (Aroclor 1254) | 176 | |
| 11096-82-5 | PCB-1260 (Aroclor 1260) | 82.9 | J |

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718095.D
Lab Smp Id: 1683457 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683457 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 95 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 7.022 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | AREA | HEIGHT | HT/AREA | % AREA | | COMPOUNDS | REVIEW CODE |
|---|---|---|---|---|---|---|---|
| 1.205 | 26533 | 25703 | 0.969 | 0.07 | | | |
| 2.061 | 21244 | 15279 | 0.719 | 0.05 | | | |
| 2.474 | 151989 | 129445 | 0.852 | 0.41 | | 1 Aroclor 1221 | BA |
| 2.549 | 5380246 | 5456185 | 1.014 | 14.71 | $ | 2 Tetrachloro-m-xylene | BA |
| 2.751 | 8057 | 8973 | 1.114 | 0.02 | | 1 Aroclor 1221 | BA |
| 2.860 | 30622 | 23466 | 0.766 | 0.08 | | 1 Aroclor 1221 | BA |
| 2.922 | 70221 | 54169 | 0.771 | 0.19 | | 1 Aroclor 1221 | BA |
| 3.063 | 12810 | 13764 | 1.074 | 0.03 | | | |
| 3.094 | 54024 | 51736 | 0.958 | 0.14 | | | |
| 3.130 | 135829 | 128543 | 0.946 | 0.37 | | | |
| 3.396 | 122795 | 122414 | 0.997 | 0.33 | | | |
| 3.422 | 159842 | 150837 | 0.944 | 0.43 | | | |
| 3.512 | 191288 | 185758 | 0.971 | 0.52 | | | |
| 3.599 | 214556 | 197976 | 0.923 | 0.58 | | | |
| 3.727 | 25299 | 21630 | 0.855 | 0.06 | | | |
| 3.812 | 146828 | 115731 | 0.788 | 0.40 | | | |
| 3.896 | 552709 | 329170 | 0.596 | 1.51 | | | |
| 4.021 | 198351 | 168351 | 0.849 | 0.54 | | | |
| 4.075 | 137833 | 118557 | 0.860 | 0.37 | | | |
| 4.143 | 89635 | 70537 | 0.787 | 0.24 | | | |
| 4.221 | 29727 | 24385 | 0.820 | 0.08 | | | |
| 4.298 | 812557 | 747065 | 0.919 | 2.22 | | | |
| 4.344 | 748110 | 719629 | 0.962 | 2.04 | | 6 Aroclor 1248 | CO |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 4.376 | 766604 | 648785 | 0.846 | 2.09 | |
| 4.435 | 56817 | 41107 | 0.723 | 0.15 | |
| 4.501 | 327718 | 307007 | 0.937 | 0.89 | |
| 4.537 | 249497 | 225928 | 0.906 | 0.68 | |
| 4.630 | 617876 | 573105 | 0.928 | 1.68 | 6 Aroclor 1248 |
| 4.673 | 52232 | 44513 | 0.852 | 0.14 | |
| 4.703 | 73731 | 59682 | 0.809 | 0.20 | |
| 4.743 | 27351 | 25904 | 0.947 | 0.07 | |
| 4.766 | 46582 | 34986 | 0.751 | 0.12 | |
| 4.824 | 75631 | 66476 | 0.879 | 0.20 | |
| 4.851 | 99711 | 89610 | 0.899 | 0.27 | |
| 4.898 | 294071 | 278207 | 0.946 | 0.80 | 6 Aroclor 1248 |
| 4.931 | 227416 | 210053 | 0.924 | 0.62 | |
| 4.979 | 924004 | 536571 | 0.581 | 2.52 | 6 Aroclor 1248 |
| 5.042 | 254525 | 210850 | 0.828 | 0.69 | |
| 5.090 | 24341 | 20984 | 0.862 | 0.06 | |
| 5.123 | 210815 | 197527 | 0.937 | 0.57 | 6 Aroclor 1248 |
| 5.143 | 23967 | 32738 | 1.366 | 0.06 | |
| 5.185 | 510872 | 455687 | 0.892 | 1.39 | |
| 5.246 | 756665 | 675343 | 0.893 | 2.06 | 7 Aroclor 1254 |
| 5.299 | 745720 | 588719 | 0.789 | 2.03 | |
| 5.368 | 89391 | 78461 | 0.878 | 0.24 | |
| 5.400 | 401465 | 368573 | 0.918 | 1.09 | |
| 5.449 | 178697 | 166283 | 0.931 | 0.48 | |
| 5.493 | 439270 | 401956 | 0.915 | 1.20 | 7 Aroclor 1254 |
| 5.535 | 800026 | 729861 | 0.912 | 2.18 | |
| 5.565 | 67897 | 70604 | 1.040 | 0.18 | |
| 5.596 | 948253 | 855279 | 0.902 | 2.59 | 7 Aroclor 1254 |
| 5.662 | 50522 | 40616 | 0.804 | 0.13 | |
| 5.691 | 100929 | 82959 | 0.822 | 0.27 | |
| 5.761 | 303833 | 279357 | 0.919 | 0.83 | |
| 5.798 | 154684 | 115117 | 0.744 | 0.42 | |
| 5.828 | 190625 | 135377 | 0.710 | 0.52 | |
| 5.875 | 1154320 | 962148 | 0.834 | 3.15 | |
| 5.907 | 192111 | 159394 | 0.830 | 0.52 | |
| 5.972 | 73600 | 82302 | 1.118 | 0.20 | |
| 5.989 | 139390 | 113355 | 0.813 | 0.38 | |
| 6.017 | 81242 | 72694 | 0.895 | 0.22 | |
| 6.052 | 28490 | 26188 | 0.919 | 0.07 | |
| 6.079 | 279473 | 255484 | 0.914 | 0.76 | |
| 6.114 | 476825 | 425778 | 0.893 | 1.30 | 7 Aroclor 1254 |
| 6.141 | 1118617 | 978752 | 0.875 | 3.05 | |
| 6.254 | 242970 | 152362 | 0.627 | 0.66 | |
| 6.314 | 78453 | 87253 | 1.112 | 0.21 | |
| 6.331 | 184953 | 145539 | 0.787 | 0.50 | |
| 6.386 | 1390166 | 1214108 | 0.873 | 3.80 | 7 Aroclor 1254 |
| 6.421 | 156607 | 140946 | 0.900 | 0.42 | |
| 6.462 | 56298 | 45047 | 0.800 | 0.15 | |
| 6.517 | 156285 | 117487 | 0.752 | 0.42 | |
| 6.596 | 512096 | 465763 | 0.910 | 1.40 | |
| 6.623 | 261230 | 252656 | 0.967 | 0.71 | |
| 6.646 | 177914 | 157836 | 0.887 | 0.48 | |
| 6.692 | 35235 | 36160 | 1.026 | 0.09 | |
| 6.748 | 19928 | 15438 | 0.775 | 0.05 | |
| 6.805 | 219005 | 195838 | 0.894 | 0.59 | |
| 6.846 | 207142 | 176946 | 0.854 | 0.56 | |
| 6.888 | 197936 | 165653 | 0.837 | 0.54 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|---|---|---|---|---|---|
| 6.926 | 130304 | 83707 | 0.642 | 0.35 | |
| 6.998 | 36628 | 28869 | 0.788 | 0.10 | |
| 7.029 | 532259 | 491840 | 0.924 | 1.45 | |
| 7.090 | 647883 | 588614 | 0.909 | 1.77 | 8 Aroclor 1260 |
| 7.121 | 96285 | 63431 | 0.659 | 0.26 | |
| 7.189 | 76100 | 36621 | 0.481 | 0.20 | |
| 7.337 | 304752 | 266492 | 0.874 | 0.83 | 8 Aroclor 1260 |
| 7.366 | 105318 | 66391 | 0.630 | 0.28 | |
| 7.420 | 52441 | 34510 | 0.658 | 0.14 | |
| 7.476 | 252127 | 213278 | 0.846 | 0.68 | |
| 7.528 | 223593 | 157770 | 0.706 | 0.61 | 8 Aroclor 1260 |
| 7.663 | 17574 | 17943 | 1.021 | 0.04 | |
| 7.711 | 45061 | 21555 | 0.478 | 0.12 | |
| 7.777 | 72207 | 65903 | 0.913 | 0.19 | |
| 7.814 | 92881 | 71713 | 0.772 | 0.25 | |
| 7.845 | 46468 | 28664 | 0.617 | 0.12 | |
| 7.898 | 151819 | 116132 | 0.765 | 0.41 | |
| 7.958 | 27893 | 22207 | 0.796 | 0.07 | |
| 7.986 | 185579 | 149304 | 0.805 | 0.50 | 8 Aroclor 1260 |
| 8.042 | 43125 | 22173 | 0.514 | 0.11 | |
| 8.135 | 384620 | 350912 | 0.912 | 1.05 | |
| 8.360 | 157609 | 143200 | 0.909 | 0.43 | |
| 8.440 | 21921 | 14634 | 0.668 | 0.05 | |
| 8.657 | 5737614 | 5085711 | 0.886 | 16.21 | $ 12 Decachlorobiphenyl |
| 8.813 | 69357 | 48442 | 0.698 | 0.18 | |
| 8.999 | 55929 | 34400 | 0.615 | 0.15 | |
| 9.139 | 44483 | 35192 | 0.791 | 0.12 | |
| 9.254 | 42383 | 36731 | 0.867 | 0.11 | |
| 9.525 | 67837 | 44002 | 0.649 | 0.18 | |
| | 36575176 | 32312996 | | 100.000 | |

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718095.D
Lab Smp Id: 1683457 Client Smp ID: AT1-170830-01-MIN-0
Inj Date : 08-MAY-2018 19:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683457 x2,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 95 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * CpndVar

| Name | Value | Description |
|---|---|---|
| DF | 2.000 | Dilution Factor |
| Uf | 1.000 | Correction Factor |
| Vt | 5000.000 | Volume of final extract(uL)(1000 low,200 |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 7.022 | Weight of sample extracted |
| M | 0.00000 | %Moisture |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Aroclor 1221 | | | | | CAS #: 11104-28-2 | | | |
| 1.853 | 1.853 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 2.473 | 2.471 | 0.002 | 151988 | 0.28830 | 410 | 0.00- 20.00 | 0.00 | BA |
| 2.751 | 2.758 | -0.007 | 8057 | 0.00581 | 8.3 | 0.00- 20.00 | 0.00 | BA |
| 2.860 | 2.860 | 0.000 | 30621 | 0.02775 | 40 | 0.00- 20.00 | 0.00 | BA |
| 2.922 | 2.923 | -0.001 | 70220 | 0.02100 | 30 | 0.00- 20.00 | 0.00 | BA |
| Average of Peak Concentrations = | | | | | 120 | | | |
| $ 2 Tetrachloro-m-xylene | | | | | CAS #: 877-09-8 | | | |
| 2.549 | 2.549 | 0.000 | 5380245 | 0.04467 | 64 | | (M) | BA |
| 3 Aroclor 1242 | | | | | CAS #: 53469-21-9 | | | |

Operator disabled compound identification.

| RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COL (ug/ml) | FINAL (ug/Kg) | TARGET RANGE | RATIO | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 4 Aroclor 1232 | | | | | CAS #: 1114-16-5 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 5 Aroclor 1016 | | | | | CAS #: 12674-11-2 | | | |
| Operator disabled compound identification. | | | | | | | | |
| 6 Aroclor 1248 | | | | | CAS #: 12672-29-6 | | | |
| 4.344 | 4.343 | 0.001 | 748110 | 0.31363 | 450 | 0.00- 20.00 | 100.00(M) | CO |
| 4.630 | 4.630 | 0.000 | 617876 | 0.14547 | 210 | 0.00- 20.00 | 82.59 | CO |
| 4.897 | 4.898 | -0.001 | 294070 | 0.14436 | 200 | 0.00- 20.00 | 39.31 | CO |
| 4.979 | 4.963 | 0.016 | 924003 | 0.16869 | 240 | 0.00- 20.00 | 123.51 | CO |
| 5.123 | 5.123 | 0.000 | 210814 | 0.05572 | 79 | 0.00- 20.00 | 28.18 | CO |
| | | Average of Peak Concentrations = | | | 240 | | | |
| 7 Aroclor 1254 | | | | | CAS #: 11097-69-1 | | | |
| 5.246 | 5.248 | -0.002 | 756665 | 0.13417 | 190 | 0.00- 20.00 | 100.00(M) | BA |
| 5.493 | 5.492 | 0.001 | 439270 | 0.09419 | 130 | 0.00- 20.00 | 58.05 | BA |
| 5.595 | 5.596 | -0.001 | 948252 | 0.11075 | 160 | 0.00- 20.00 | 125.32 | BA |
| 6.114 | 6.113 | 0.001 | 476824 | 0.08975 | 130 | 0.00- 20.00 | 63.02 | BA |
| 6.386 | 6.387 | -0.001 | 1390165 | 0.18988 | 270 | 0.00- 20.00 | 183.72 | BA |
| | | Average of Peak Concentrations = | | | 180 | | | |
| 8 Aroclor 1260 | | | | | CAS #: 11096-82-5 | | | |
| 6.387 | 6.387 | 0.000 | 0 | 0.00 | 0.00 | 0.00- 20.00 | 0.00(M) | BA |
| 7.090 | 7.090 | 0.000 | 647882 | 0.05505 | 78 | 0.00- 20.00 | 46.60 | BA |
| 7.337 | 7.338 | -0.001 | 304752 | 0.05388 | 77 | 0.00- 20.00 | 21.92 | BA |
| 7.528 | 7.529 | -0.001 | 223593 | 0.06540 | 93 | 0.00- 20.00 | 16.08 | BA |
| 7.985 | 7.987 | -0.002 | 185579 | 0.05860 | 83 | 0.00- 20.00 | 13.35 | BA |
| | | Average of Peak Concentrations = | | | 83 | | | |
| $ 12 Decachlorobiphenyl | | | | | CAS #: 2051-24-3 | | | |
| 8.656 | 8.657 | -0.001 | 5737614 | 0.04308 | 61 | | | |

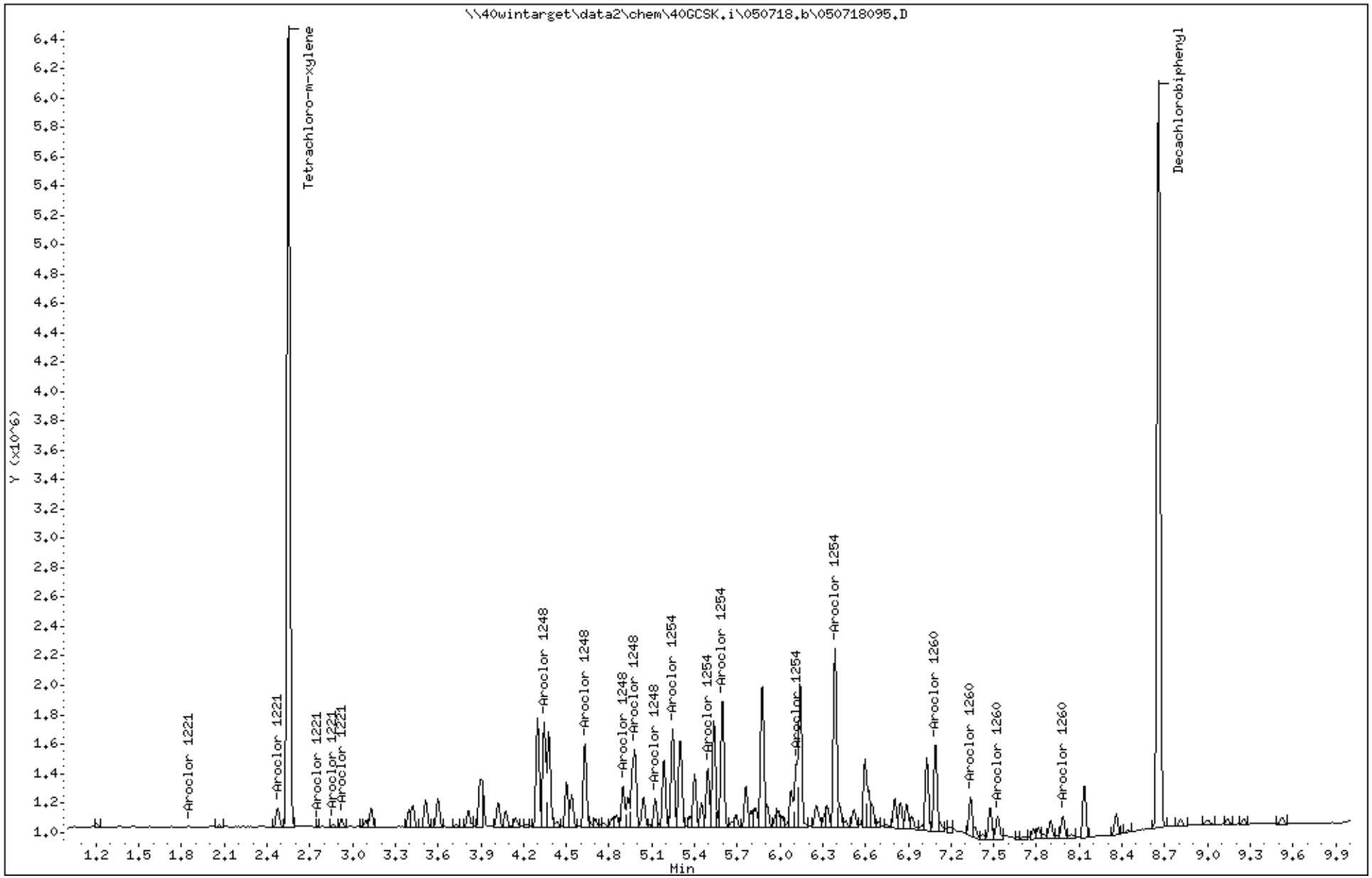
QC Flag Legend

M - Compound response manually integrated.

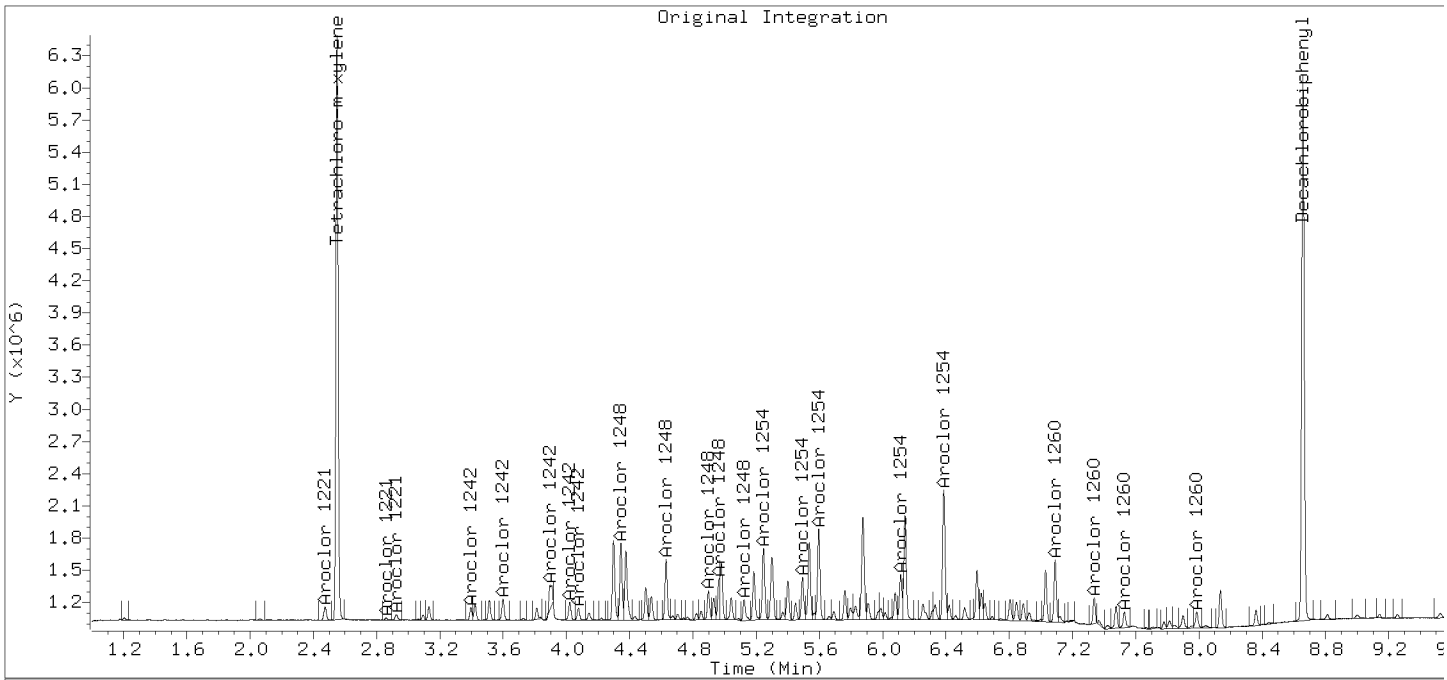
Review Codes Legend

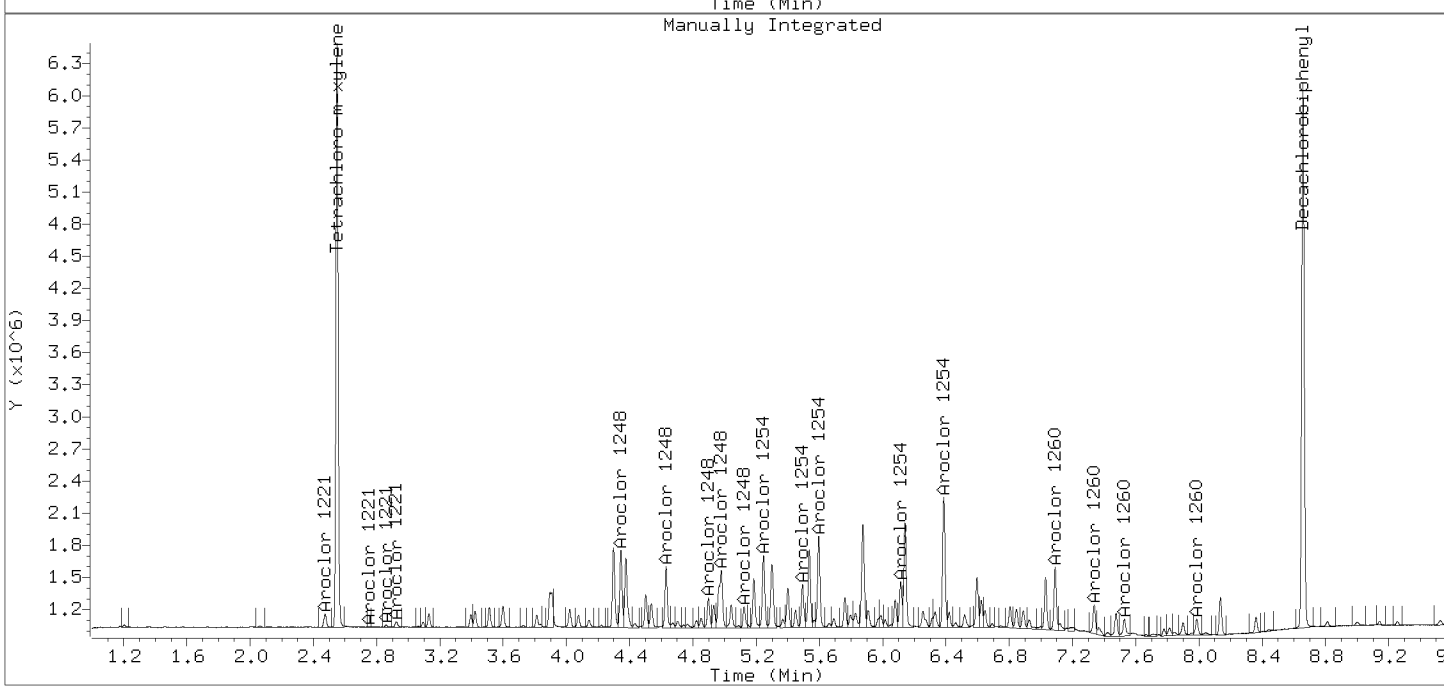
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718095.D
Date : 08-MAY-2018 19:06
Client ID: AT1-170830-01-MIN-0
Instrument: 40GCSK.i
Sample Info: 1683457 x2,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718095.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 19:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683457




Manually Integrated Compounds

| Compound | Area (before) | Area (after) | Code |
|---|---|---|---|
| Aroclor 1016 | 122794 | 0 | |
| Aroclor 1016 | 122794 | 0 | |
| Aroclor 1016 | 122794 | 0 | |
| Aroclor 1016 | 122794 | 0 | |
| Aroclor 1016 | 122794 | 0 | |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1221 | 0 | 0 | BA |
| Aroclor 1232 | 61448 | 0 | |
| Aroclor 1232 | 61448 | 0 | |
| Aroclor 1232 | 61448 | 0 | |
| Aroclor 1232 | 61448 | 0 | |

| | | | |
|---|---|---|---|
| Aroclor 1232 | 61448 | 0 | |
| Aroclor 1242 | 122794 | 0 | |
| Aroclor 1242 | 122794 | 0 | |
| Aroclor 1242 | 122794 | 0 | |
| Aroclor 1242 | 122794 | 0 | |
| Aroclor 1242 | 122794 | 0 | |
| Aroclor 1248 | 735841 | 748110 | CO |
| Aroclor 1248 | 735841 | 748110 | CO |
| Aroclor 1248 | 735841 | 748110 | CO |
| Aroclor 1248 | 735841 | 748110 | CO |
| Aroclor 1248 | 735841 | 748110 | CO |
| Aroclor 1254 | 725164 | 756665 | BA |
| Aroclor 1254 | 725164 | 756665 | BA |
| Aroclor 1254 | 725164 | 756665 | BA |
| Aroclor 1254 | 725164 | 756665 | BA |
| Aroclor 1254 | 725164 | 756665 | BA |
| Aroclor 1260 | 1373485 | 0 | BA |
| Aroclor 1260 | 1373485 | 0 | BA |
| Aroclor 1260 | 1373485 | 0 | BA |
| Aroclor 1260 | 1373485 | 0 | BA |
| Aroclor 1260 | 1373485 | 0 | BA |
| Tetrachloro-m-xylene | 5350837 | 5380245 | BA |
| Decachlorobiphenyl | 5737614 | 5737614 | |

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# Prep Log Report

**Batch Information: OEXT 287324 PCB-B**

**Template Version: F-GB-O-113-Rev.05 (22Mar2018)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prep Method | EPA 3541 | Analysis Method | EPA 8082A Mod | Extracted By | ETB | Extracted Date/Time | 04/30/2018 10:28:43:480 |
| Spiked By | ETB | Spiked By Date/Time | 04/30/2018 10:28:43:480 | Witnessed By | AMC | Witnessed By Date/Time | 04/30/2018 10:28:43:480 |
| Instrument | 40BALL | Conc. Temp #1 | 40 | Conc. Temp #2 | 40 | Methylene Chloride | None Added |
| Hexane/Acetone 1:1 | 195058 | Hexane | 192551 | Sodium Sulfate | 194642 | Florisil | 186910 |
| 3620B Date/Initials | 05/01/18 ETB | H2SO4 - Conc. | 179362 | Acid 3665A Date/Initials | 05/01/18 ETB | Tuna | None Added |
| Reviewed By | BLM | Reviewed By Date | 05/10/2018 14:00 | Batch Notes | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | BLANK | **1681428** | 10 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | LCS | **1681429** | 10 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | RQS | **40157940015** | 9.9936 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1681911** | 9.9851 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | MS | **1681430** | 9.9846 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | PS | **40157948008** | 10.0142 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948009** | 10.0164 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | RQS | **40157948011** | 10.0294 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1681432** | 10.0332 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948014** | 10.0131 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017001** | 9.9702 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017002** | 9.9957 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017016** | 9.9898 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017017** | 10.0147 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017018** | 10.0284 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017019** | 10.0003 | 5 | 3 | | 193230 (.25) | |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | RQS | **40158017020** | 10.002 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1681433** | 10.0261 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029002** | 9.985 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | RQS | **40158029004** | 10.0264 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1681434** | 10.0092 | 5 | 3 | | 193230 (.25) | |

**Standard Notes:**

**192096: Ar1242 Spike @20ug/mL 40GCS9.** **193230: Pest/PCB Surrogate Spike 40GCSC.**

# Prep Log Report

**Batch Information: OEXT 287454 PCB-B**

**Template Version: F-GB-O-113-Rev.05 (22Mar2018)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prep Method | EPA 3541 | Analysis Method | EPA 8082A Mod | Extracted By | ETB | Extracted Date/Time | 05/01/2018 07:23:08:558 |
| Spiked By | ETB | Spiked By Date/Time | 05/01/2018 07:23:11:212 | Witnessed By | AMC | Witnessed By Date/Time | 05/01/2018 07:23:13:940 |
| Instrument | 40BALL | Conc. Temp #1 | 40 | Conc. Temp #2 | 40 | Methylene Chloride | None Added |
| Hexane/Acetone 1:1 | 195058 | Hexane | 192551 | Sodium Sulfate | 194786 | Florisil | 186910 |
| 3620B Date/Initials | 05/02/18 ETB | H2SO4 - Conc. | 179362 | Acid 3665A Date/Initials | 05/02/18 ETB | Tuna | None Added |
| Reviewed By | BLM | Reviewed By Date | 05/11/2018 07:55 | Batch Notes | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | BLANK | **1681906** | 10 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | LCS | **1681907** | 10 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | PS | **40157948001** | 9.9685 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948002** | 10.0255 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948007** | 9.9868 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | MS | **1681908** | 5.4335 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | DUP | **1681909** | 8.7067 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948012** | 10.0342 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013011** | 10.0286 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013012** | 9.9824 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017003** | 10.0244 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017004** | 10.0023 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017005** | 10.0013 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017006** | 9.9932 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1681910** | 9.996 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017007** | 10.0085 | 5 | 3 | | 193230 (.25) | |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | PS | **40158017008** | 10.0276 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017009** | 10.0324 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017010** | 9.9712 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029001** | 9.9914 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029005** | 9.9689 | 5 | 3 | | 193230 (.25) | |

**Standard Notes:**

**192096: Ar1242 Spike @20ug/mL 40GCS9.** **193230: Pest/PCB Surrogate Spike 40GCSC.**

# Prep Log Report

**Batch Information: OEXT 287596 PCB-B**

**Template Version: F-GB-O-113-Rev.05 (22Mar2018)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prep Method | EPA 3541 | Analysis Method | EPA 8082A Mod | Extracted By | ETB | Extracted Date/Time | 05/02/2018 09:20:54:284 |
| Spiked By | ETB | Spiked By Date/Time | 05/02/2018 09:21:08:362 | Witnessed By | AMC | Witnessed By Date/Time | 05/02/2018 09:21:08:362 |
| Instrument | 40BALL | Conc. Temp #1 | 40 | Conc. Temp #2 | 40 | Methylene Chloride | None Added |
| Hexane/Acetone 1:1 | 195322 | Hexane | 192551 | Sodium Sulfate | 194786 | Florisil | 186910 |
| 3620B Date/Initials | 05/03/18 ETB | H2SO4 - Conc. | 179362 | Acid 3665A Date/Initials | 05/03/18 ETB | Tuna | None Added |
| Reviewed By | BLM | Reviewed By Date | 05/16/2018 11:05 | Batch Notes | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | BLANK | **1682672** | 10 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | LCS | **1682673** | 10 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | PS | **40157948003** | 9.9892 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948004** | 9.9903 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948005** | 10.0174 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948010** | 3.0399 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1682674** | 3.1553 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40157948013** | 10.0361 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013006** | 7.8655 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013007** | 9.9717 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013008** | 9.9779 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158013009** | 9.9617 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029006** | 10.007 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029007** | 10.0174 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029008** | 9.9635 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029009** | 10.005 | 5 | 3 | | 193230 (.25) | |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | RQS | **40158029010** | 7.2759 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | MS | **1682675** | 6.9581 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | DUP | **1682677** | 6.4488 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029011** | 9.9867 | 5 | 3 | | 193230 (.25) | |

**Standard Notes:**

**192096: Ar1242 Spike @20ug/mL 40GCS9.** **193230: Pest/PCB Surrogate Spike 40GCSC.**

# Prep Log Report

**Batch Information: OEXT 287737 PCB-B**

**Template Version: F-GB-O-113-Rev.05 (22Mar2018)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prep Method | EPA 3541 | Analysis Method | EPA 8082A Mod | Extracted By | ETB | Extracted Date/Time | 05/04/2018 07:32:08:316 |
| Spiked By | ETB | Spiked By Date/Time | 05/04/2018 07:32:09:070 | Witnessed By | AMC | Witnessed By Date/Time | 05/04/2018 07:32:09:996 |
| Instrument | 40BALL | Conc. Temp #1 | 40 | Conc. Temp #2 | 40 | Methylene Chloride | None Added |
| Hexane/Acetone 1:1 | 195322 | Hexane | 195250 | Sodium Sulfate | 194916 | Florisil | 188802 |
| 3620B Date/Initials | 5/4/18 AMC | H2SO4 - Conc. | 179362 | Acid 3665A Date/Initials | 5/4/18 AMC | Tuna | None Added |
| Reviewed By | BLM | Reviewed By Date | 05/18/2018 14:19 | Batch Notes | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Initial Weight (g) | Final Volume (mL) | Volume Delivered (mL) | Sample Notes | 8081-SS (mL) | AR1242-SPK (mL) |
|---|---|---|---|---|---|---|---|---|
| 8082A TNYP | BLANK | **1683452** | 10 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | LCS | **1683453** | 10 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | PS | **40157948006** | 5.6341 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1683454** | 8.1489 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017011** | 10.0015 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | MS | **1683455** | 3.5445 | 5 | 3 | | 193230 (.25) | 192096 (.125) |
| 8082A TNYP | DUP | **1683456** | 4.3374 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017012** | 10.0365 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017013** | 9.9933 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017014** | 10.0237 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158017015** | 10.0001 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029003** | 9.9914 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029012** | 9.9826 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | DUP | **1683457** | 7.0222 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029013** | 10.0044 | 5 | 3 | | 193230 (.25) | |
| 8082A TNYP | PS | **40158029014** | 10.0008 | 5 | 3 | | 193230 (.25) | |

# Prep Log Report

**Standard Notes:**

**192096: Ar1242 Spike @20ug/mL 40GCS9.** **193230: Pest/PCB Surrogate Spike 40GCSC.**

```
    Sequence Name: C:\msdchem\1\sequence\050118.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\050118\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1681428MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1681429LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157940-015 x20
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1681430MS x20
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  1681911DUP x20
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157948-008 x2
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157948-009 x2
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157948-011 x10
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1681432DUP x10
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40157948-014 x5
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158017-001 x3
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158017-002 x3
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158017-016 –
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158017-017 –
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40158017-018 –
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158017-019 –
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158017-020 –
     Datafile           --------

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```

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Bryan Meyer — Signed — 5/10/18 — Date

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```
      Method                SCREEN2014
20) Sample          20  1681433DUP —
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40158029-002 x4
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40158029-004 x5
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  1681434DUP x5
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Bryan Meyl — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
   Sequence Name: C:\msdchem\1\sequence\050218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\050218\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1681906MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1681907LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157948-001 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40157948-002 x3
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40157948-007 x5
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  1681908MS x5
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  1681909DUP x5
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157948-012 x20
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40158013-011 x20
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40158013-012 x15
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158017-003 x5
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158017-004 x4
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158017-005 x30
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158017-006 x20
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1681910DUP x20
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158017-007 x15
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158017-008 x20
     Datafile           --------

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```

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Signed: Beyn Meyl — Date: 5/10/18

Signed: Jim O'Conn — Date: 5-10-18

```
      Method                SCREEN2014
20)   Sample        20      40158017-009 x20
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40158017-010 x20
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40158029-001 x15
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40158029-005 x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Signed 5/10/18 Date Signed 5-10-18 Date

```
    Sequence Name: C:\msdchem\1\sequence\050318.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\050318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1683033MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1683034LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1683035MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1683036DUP
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40168356-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40168356-002
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40168356-003
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40168356-004
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40168356-005
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40168356-006
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40168356-007
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40168356-008
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40168356-009
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40168356-010
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40168356-011
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40168356-012
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40168356-013
     Datafile          --------

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```

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Bryan Meyll — Signed — 5/10/18 — Date

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```
      Method              SCREEN2014
20) Sample          20  40168356-014
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40168356-015
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  HEXANE
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  40168317-001
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  40168317-002
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  40168317-003
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  40168317-004
      Datafile            --------
      Method              SCREEN2014
27) RearSamp        27  40168318-001
      Datafile            --------
      Method              SCREEN2014
28) Sample          28  40168318-002
      Datafile            --------
      Method              SCREEN2014
29) RearSamp        29  1682672MB
      Datafile            --------
      Method              SCREEN2014
30) Sample          30  1682673LCS
      Datafile            --------
      Method              SCREEN2014
31) RearSamp        31  40157948-003 x4
      Datafile            --------
      Method              SCREEN2014
32) Sample          32  40157948-004 x2
      Datafile            --------
      Method              SCREEN2014
33) RearSamp        33  40157948-005 x5
      Datafile            --------
      Method              SCREEN2014
34) Sample          34  40157948-010 x5
      Datafile            --------
      Method              SCREEN2014
35) RearSamp        35  1682674DUP x5
      Datafile            --------
      Method              SCREEN2014
36) Sample          36  40157948-013 x5
      Datafile            --------
      Method              SCREEN2014
37) RearSamp        37  40158013-006 x10
      Datafile            --------
      Method              SCREEN2014
38) Sample          38  40158013-007 x10
      Datafile            --------
      Method              SCREEN2014
39) RearSamp        39  40158013-008 x10
      Datafile            --------
      Method              SCREEN2014
40) Sample          40  40158013-009 x10
      Datafile            --------
      Method              SCREEN2014
41) RearSamp        41  40158029-006 x2
      Datafile            --------
      Method              SCREEN2014
42) Sample          42  40158029-007 x2
      Datafile            --------
      Method              SCREEN2014
43) RearSamp        43  40158029-008 x3
      Datafile            --------
```

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Signed: [signature] Date: 5/10/18

Signed: [signature] Date: 5-10-18

Sequence Name: C:\msdchem\1\sequence\050318.s

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 44) | Sample | 44 | 40158029-009 ×3 | SCREEN2014 | |
| 45) | RearSamp | 45 | 40158029-010 ×2 | SCREEN2014 | |
| 46) | Sample | 46 | 1682675MS ×2 | SCREEN2014 | |
| 47) | RearSamp | 47 | 1682677DUP ×2 | SCREEN2014 | |
| 48) | Sample | 48 | 40158029-011 ×2 | SCREEN2014 | |

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Read and Understood By

Bryan Meyer 5/10/18 Signed Date

Jim O'Connor 5-10-18 Signed Date

```
    Sequence Name: C:\msdchem\1\sequence\050418.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\050418\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                   Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1683452MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1683453LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40157948-006 x5
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1683454DUP x5
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40158017-011 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  1683455MS —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  1683456DUP —
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40158017-012 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40158017-013 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40158017-014 —
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40158017-015 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40158029-003 x5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40158029-012 x2
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  1683457DUP x2
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40158029-013 x2
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40158029-014 x2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  1682663MB
     Datafile          --------
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```

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Signed: [signature] Date: 5/10/18 Signed: [signature] Date: 5-10-18

```
   Sequence Name: C:\msdchem\1\sequence\050318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\050318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run        Sequence Barcode Options
    (X) Full Method               (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only         ( ) On Mismatch, Don't Inject
                                  ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          050318001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          050318002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          050318003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          050318004
     Method            GEBIOTA2017
 6) RearSamp        5  HEXANE
     Datafile          050318005
     Method            GEBIOTA2017
 7) Sample          6  HEXANE
     Datafile          050318006
     Method            GEBIOTA2017
 8) RearSamp        7  1232-CAL3S,185539:1,17762,NSA
     Datafile          050318007
     Method            GEBIOTA2017
 9) Sample          8  1232-CAL3S,185539:1,17761,NSA
     Datafile          050318008
     Method            GEBIOTA2017
10) RearSamp        9  1221-CAL1F,188138:1,17762,NSA
     Datafile          050318009
     Method            GEBIOTA2017
11) Sample         10  1221-CAL1F,188138:1,17761,NSA
     Datafile          050318010
     Method            GEBIOTA2017
12) RearSamp       11  1221-CAL2F,188139:1,17762,NSA
     Datafile          050318011
     Method            GEBIOTA2017
13) Sample         12  1221-CAL2F,188139:1,17761,NSA
     Datafile          050318012
     Method            GEBIOTA2017
14) RearSamp       13  1221-CAL3F,185538:1,17762,NSA
     Datafile          050318013
     Method            GEBIOTA2017
15) Sample         14  1221-CAL3F,185538:1,17761,NSA
     Datafile          050318014
     Method            GEBIOTA2017
16) RearSamp       15  1221-CAL4F,188140:1,17762,NSA
     Datafile          050318015
     Method            GEBIOTA2017
17) Sample         16  1221-CAL4F,188140:1,17761,NSA
     Datafile          050318016
     Method            GEBIOTA2017
18) RearSamp       17  1221-CAL5F,188141:1,17762,NSA
     Datafile          050318017
     Method            GEBIOTA2017
19) Sample         18  1221-CAL5F,188141:1,17761,NSA
     Datafile          050318018
     Method            GEBIOTA2017
20) RearSamp       19  HEXANE

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```

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```
      Datafile          050318019
      Method            GEBIOTA2017
21) Sample        20    HEXANE
      Datafile          050318020
      Method            GEBIOTA2017
22) RearSamp      21    1242-CAL1B,188132:1,17762,NSA
      Datafile          050318021
      Method            GEBIOTA2017
23) Sample        22    1242-CAL1B,188132:1,17761,NSA
      Datafile          050318022
      Method            GEBIOTA2017
24) RearSamp      23    1242-CAL2B,185543:1,17762,NSA
      Datafile          050318023
      Method            GEBIOTA2017
25) Sample        24    1242-CAL2B,185543:1,17761,NSA
      Datafile          050318024
      Method            GEBIOTA2017
26) RearSamp      25    1242-CAL3B,185544:1,17762,NSA
      Datafile          050318025
      Method            GEBIOTA2017
27) Sample        26    1242-CAL3B,185544:1,17761,NSA
      Datafile          050318026
      Method            GEBIOTA2017
28) RearSamp      27    1242-CAL4B,185545:1,17762,NSA
      Datafile          050318027
      Method            GEBIOTA2017
29) Sample        28    1242-CAL4B,185545:1,17761,NSA
      Datafile          050318028
      Method            GEBIOTA2017
30) RearSamp      29    1242-CAL5B,185546:1,17762,NSA
      Datafile          050318029
      Method            GEBIOTA2017
31) Sample        30    1242-CAL5B,185546:1,17761,NSA
      Datafile          050318030
      Method            GEBIOTA2017
32) RearSamp      31    HEXANE
      Datafile          050318031
      Method            GEBIOTA2017
33) Sample        32    HEXANE
      Datafile          050318032
      Method            GEBIOTA2017
34) RearSamp      33    1248-CAL1D,188134:1,17762,NSA
      Datafile          050318033
      Method            GEBIOTA2017
35) Sample        34    1248-CAL1D,188134:1,17761,NSA
      Datafile          050318034
      Method            GEBIOTA2017
36) RearSamp      35    1248-CAL2D,185548:1,17762,NSA
      Datafile          050318035
      Method            GEBIOTA2017
37) Sample        36    1248-CAL2D,185548:1,17761,NSA
      Datafile          050318036
      Method            GEBIOTA2017
38) RearSamp      37    1248-CAL3D,185549:1,17762,NSA
      Datafile          050318037
      Method            GEBIOTA2017
39) Sample        38    1248-CAL3D,185549:1,17761,NSA
      Datafile          050318038
      Method            GEBIOTA2017
40) RearSamp      39    1248-CAL4D,185550:1,17762,NSA
      Datafile          050318039
      Method            GEBIOTA2017
41) Sample        40    1248-CAL4D,185550:1,17761,NSA
      Datafile          050318040
      Method            GEBIOTA2017
42) RearSamp      41    1248-CAL5D,185551:1,17762,NSA
      Datafile          050318041
      Method            GEBIOTA2017
43) Sample        42    1248-CAL5D,185551:1,17761,NSA
      Datafile          050318042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\050318.s

| | Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|---|
| 44) | | RearSamp | 43 | HEXANE | | |
| | | Datafile | | 050318043 | | |
| | | Method | | | GEBIOTA2017 | |
| 45) | | Sample | 44 | HEXANE | | |
| | | Datafile | | 050318044 | | |
| | | Method | | | GEBIOTA2017 | |
| 46) | | RearSamp | 45 | 1254-CAL1C,188135:1,17762,NSA | | |
| | | Datafile | | 050318045 | | |
| | | Method | | | GEBIOTA2017 | |
| 47) | | Sample | 46 | 1254-CAL1C,188135:1,17761,NSA | | |
| | | Datafile | | 050318046 | | |
| | | Method | | | GEBIOTA2017 | |
| 48) | | RearSamp | 47 | 1254-CAL2C,185553:1,17762,NSA | | |
| | | Datafile | | 050318047 | | |
| | | Method | | | GEBIOTA2017 | |
| 49) | | Sample | 48 | 1254-CAL2C,185553:1,17761,NSA | | |
| | | Datafile | | 050318048 | | |
| | | Method | | | GEBIOTA2017 | |
| 50) | | RearSamp | 49 | 1254-CAL3C,185554:1,17762,NSA | | |
| | | Datafile | | 050318049 | | |
| | | Method | | | GEBIOTA2017 | |
| 51) | | Sample | 50 | 1254-CAL3C,185554:1,17761,NSA | | |
| | | Datafile | | 050318050 | | |
| | | Method | | | GEBIOTA2017 | |
| 52) | | RearSamp | 51 | 1254-CAL4C,185555:1,17762,NSA | | |
| | | Datafile | | 050318051 | | |
| | | Method | | | GEBIOTA2017 | |
| 53) | | Sample | 52 | 1254-CAL4C,185555:1,17761,NSA | | |
| | | Datafile | | 050318052 | | |
| | | Method | | | GEBIOTA2017 | |
| 54) | | RearSamp | 53 | 1254-CAL5C,185556:1,17762,NSA | | |
| | | Datafile | | 050318053 | | |
| | | Method | | | GEBIOTA2017 | |
| 55) | | Sample | 54 | 1254-CAL5C,185556:1,17761,NSA | | |
| | | Datafile | | 050318054 | | |
| | | Method | | | GEBIOTA2017 | |
| 56) | | RearSamp | 55 | HEXANE | | |
| | | Datafile | | 050318055 | | |
| | | Method | | | GEBIOTA2017 | |
| 57) | | Sample | 56 | HEXANE | | |
| | | Datafile | | 050318056 | | |
| | | Method | | | GEBIOTA2017 | |
| 58) | | RearSamp | 57 | 1660-CAL1A,188136:1,17762,AR1 | | |
| | | Datafile | | 050318057 | | |
| | | Method | | | GEBIOTA2017 | |
| 59) | | Sample | 58 | 1660-CAL1A,188136:1,17761,AR1 | | |
| | | Datafile | | 050318058 | | |
| | | Method | | | GEBIOTA2017 | |
| 60) | | RearSamp | 59 | 1660-CAL2A,185558:1,17762,AR1 | | |
| | | Datafile | | 050318059 | | |
| | | Method | | | GEBIOTA2017 | |
| 61) | | Sample | 60 | 1660-CAL2A,185558:1,17761,AR1 | | |
| | | Datafile | | 050318060 | | |
| | | Method | | | GEBIOTA2017 | |
| 62) | | RearSamp | 61 | 1660-CAL3A,185559:1,17762,AR1 | | |
| | | Datafile | | 050318061 | | |
| | | Method | | | GEBIOTA2017 | |
| 63) | | Sample | 62 | 1660-CAL3A,185559:1,17761,AR1 | | |
| | | Datafile | | 050318062 | | |
| | | Method | | | GEBIOTA2017 | |
| 64) | | RearSamp | 63 | 1660-CAL4A,185560:1,17762,AR1 | | |
| | | Datafile | | 050318063 | | |
| | | Method | | | GEBIOTA2017 | |
| 65) | | Sample | 64 | 1660-CAL4A,185560:1,17761,AR1 | | |
| | | Datafile | | 050318064 | | |
| | | Method | | | GEBIOTA2017 | |
| 66) | | RearSamp | 65 | 1660-CAL5A,185561:1,17762,AR1 | | |
| | | Datafile | | 050318065 | | |

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```
      Method                GEBIOTA2017
67) Sample          66  1660-CAL5A,185561:1,17761,AR1
      Datafile              050318066
      Method                GEBIOTA2017
68) RearSamp        67  HEXANE
      Datafile              050318067
      Method                GEBIOTA2017
69) Sample          68  HEXANE
      Datafile              050318068
      Method                GEBIOTA2017
70) RearSamp        69  1221-ICV,188142:1,17762,AR122 ok
      Datafile              050318069
      Method                GEBIOTA2017
71) Sample          70  1221-ICV,188142:1,17761,AR122 ok
      Datafile              050318070
      Method                GEBIOTA2017
72) RearSamp        71  1242-ICV,185562:1,17762,AR124 ok
      Datafile              050318071
      Method                GEBIOTA2017
73) Sample          72  1242-ICV,185562:1,17761,AR124 ok
      Datafile              050318072
      Method                GEBIOTA2017
74) RearSamp        73  1248-ICV,185563:1,17762,AR124 ok
      Datafile              050318073
      Method                GEBIOTA2017
75) Sample          74  1248-ICV,185563:1,17761,AR124 ok
      Datafile              050318074
      Method                GEBIOTA2017
76) RearSamp        75  1254-ICV,185564:1,17762,AR125 ok
      Datafile              050318075
      Method                GEBIOTA2017
77) Sample          76  1254-ICV,185564:1,17761,AR125 F
      Datafile              050318076
      Method                GEBIOTA2017
78) RearSamp        77  1660-ICV,185565:1,17762,AR166 ok
      Datafile              050318077
      Method                GEBIOTA2017
79) Sample          78  1660-ICV,185565:1,17761,AR166 F
      Datafile              050318078
      Method                GEBIOTA2017
80) RearSamp        79  1679886,,17744,BIOTA
      Datafile              050318079
      Method                GEBIOTA2017
81) Sample          80  1681428,,17750,BIOTA
      Datafile              050318080
      Method                GEBIOTA2017
82) RearSamp        81  1679887,,17744,BIOTA
      Datafile              050318081
      Method                GEBIOTA2017
83) Sample          82  1681429,,17750,BIOTA
      Datafile              050318082
      Method                GEBIOTA2017
84) RearSamp        83  40158013001 x2,,17744,BIOTA
      Datafile              050318083
      Method                GEBIOTA2017
85) Sample          84  40157940015 x20,,17750,BIOTA
      Datafile              050318084
      Method                GEBIOTA2017
86) RearSamp        85  40158013002 x5,,17744,BIOTA
      Datafile              050318085
      Method                GEBIOTA2017
87) Sample          86  1681430 x20,,17750,BIOTA
      Datafile              050318086
      Method                GEBIOTA2017
88) RearSamp        87  40158013003 x5,,17744,BIOTA
      Datafile              050318087
      Method                GEBIOTA2017
89) Sample          88  1681911 x20,,17750,BIOTA
      Datafile              050318088
      Method                GEBIOTA2017
90) RearSamp        89  40158013004 x5,,17744,BIOTA
      Datafile              050318089
```

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Read and Understood By

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```
      Method              GEBIOTA2017
91) Sample          90  40157948008 x2,,17750,BIOTA
      Datafile            050318090
      Method              GEBIOTA2017
92) RearSamp        91  40158013005,,17744,BIOTA
      Datafile            050318091
      Method              GEBIOTA2017
93) Sample          92  40157948009 x2,,17750,BIOTA
      Datafile            050318092
      Method              GEBIOTA2017
94) RearSamp        93  40158028001 x6,,17744,BIOTA
      Datafile            050318093
      Method              GEBIOTA2017
95) Sample          94  40157948011 x10,,17750,BIOTA
      Datafile            050318094
      Method              GEBIOTA2017
96) RearSamp        95  40158028002 x5,,17744,BIOTA
      Datafile            050318095
      Method              GEBIOTA2017
```

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Signed 5/7/18 Date Signed 5/7/18 Date

Sequence Name: C:\msdchem\1\sequence\050318.s

| | Line Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 97) | Sample | 96 | 1681432 x10,,17750,BIOTA | | |
| | Datafile | | 050318096 | | |
| | Method | | | GEBIOTA2017 | |
| 98) | RearSamp | 97 | 40158028003 x4,,17744,BIOTA | | |
| | Datafile | | 050318097 | | |
| | Method | | | GEBIOTA2017 | |
| 99) | Sample | 98 | 40157948014 x5,,17750,BIOTA | | |
| | Datafile | | 050318098 | | |
| | Method | | | GEBIOTA2017 | |
| 100) | RearSamp | 99 | 1221-CCV,185538:1,17762,AR122 OK | | |
| | Datafile | | 050318099 | | |
| | Method | | | GEBIOTA2017 | |
| 101) | Sample | 100 | 1221-CCV,185538:1,17761,AR122 | | |
| | Datafile | | 050318100 | | |
| | Method | | | GEBIOTA2017 | |
| 102) | RearSamp | 1 | 1221-CCV,185538:1,17762,AR122 OK | | |
| | Datafile | | 050318101 | | |
| | Method | | | GEBIOTA2017 | |
| 103) | Sample | 2 | 1221-CCV,185538:1,17761,AR122 | | |
| | Datafile | | 050318102 | | |
| | Method | | | GEBIOTA2017 | |
| 104) | RearSamp | 3 | 40158028004 x10,,17744,BIOTA | | |
| | Datafile | | 050318103 | | |
| | Method | | | GEBIOTA2017 | |
| 105) | Sample | 4 | 40158017001 x3,,17750,BIOTA | | |
| | Datafile | | 050318104 | | |
| | Method | | | GEBIOTA2017 | |
| 106) | RearSamp | 5 | 40158028005 x10,,17744,BIOTA | | |
| | Datafile | | 050318105 | | |
| | Method | | | GEBIOTA2017 | |
| 107) | Sample | 6 | 40158017002 x3,,17750,BIOTA | | |
| | Datafile | | 050318106 | | |
| | Method | | | GEBIOTA2017 | |
| 108) | RearSamp | 7 | 40158028006 x6,,17744,BIOTA | | |
| | Datafile | | 050318107 | | |
| | Method | | | GEBIOTA2017 | |
| 109) | Sample | 8 | 40158017016,,17750,BIOTA | | |
| | Datafile | | 050318108 | | |
| | Method | | | GEBIOTA2017 | |
| 110) | RearSamp | 9 | 40158028007 x5,,17744,BIOTA | | |
| | Datafile | | 050318109 | | |
| | Method | | | GEBIOTA2017 | |
| 111) | Sample | 10 | 40158017017,,17750,BIOTA | | |
| | Datafile | | 050318110 | | |
| | Method | | | GEBIOTA2017 | |
| 112) | RearSamp | 11 | 40158028008 x5,,17744,BIOTA | | |
| | Datafile | | 050318111 | | |
| | Method | | | GEBIOTA2017 | |
| 113) | Sample | 12 | 40158017018,,17750,BIOTA | | |
| | Datafile | | 050318112 | | |
| | Method | | | GEBIOTA2017 | |
| 114) | RearSamp | 13 | 40158028009 x5,,17744,BIOTA | | |
| | Datafile | | 050318113 | | |
| | Method | | | GEBIOTA2017 | |
| 115) | Sample | 14 | 40158017019,,17750,BIOTA | | |
| | Datafile | | 050318114 | | |
| | Method | | | GEBIOTA2017 | |
| 116) | RearSamp | 15 | 40158028010 x5,,17744,BIOTA | | |
| | Datafile | | 050318115 | | |
| | Method | | | GEBIOTA2017 | |
| 117) | Sample | 16 | 40158017020,,17750,BIOTA | | |
| | Datafile | | 050318116 | | |
| | Method | | | GEBIOTA2017 | |
| 118) | RearSamp | 17 | 40158028011 x4,,17744,BIOTA | | |
| | Datafile | | 050318117 | | |
| | Method | | | GEBIOTA2017 | |
| 119) | Sample | 18 | 1681433,,17750,BIOTA | | |
| | Datafile | | 050318118 | | |

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```
        Method                  GEBIOTA2017
120) RearSamp        19  40158028012 x5,,17744,BIOTA
        Datafile                050318119
        Method                  GEBIOTA2017
121) Sample          20  40158029002 x4,,17750,BIOTA
        Datafile                050318120
        Method                  GEBIOTA2017
122) RearSamp        21  40158028013 x5,,17744,BIOTA
        Datafile                050318121
        Method                  GEBIOTA2017
123) Sample          22  40158029004 x5,,17750,BIOTA
        Datafile                050318122
        Method                  GEBIOTA2017
124) RearSamp        23  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318123
        Method                  GEBIOTA2017
125) Sample          24  1232-CCV,185539:1,17761,AR123
        Datafile                050318124
        Method                  GEBIOTA2017
126) RearSamp        25  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318125
        Method                  GEBIOTA2017
127) Sample          26  1232-CCV,185539:1,17761,AR123
        Datafile                050318126
        Method                  GEBIOTA2017
128) RearSamp        27  40158028014 x4,,17744,BIOTA
        Datafile                050318127
        Method                  GEBIOTA2017
129) Sample          28  1681434 x5,,17750,BIOTA
        Datafile                050318128
        Method                  GEBIOTA2017
130) RearSamp        29  40158028015 x3,,17744,BIOTA
        Datafile                050318129
        Method                  GEBIOTA2017
131) Sample          30  HEXANE
        Datafile                050318130
        Method                  GEBIOTA2017
132) RearSamp        31  1679888 x4,,17744,BIOTA
        Datafile                050318131
        Method                  GEBIOTA2017
133) Sample          32  HEXANE
        Datafile                050318132
        Method                  GEBIOTA2017
134) RearSamp        33  1679889 x3,,17744,BIOTA
        Datafile                050318133
        Method                  GEBIOTA2017
135) Sample          34  HEXANE
        Datafile                050318134
        Method                  GEBIOTA2017
136) RearSamp        35  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318135
        Method                  GEBIOTA2017
137) Sample          36  1242-CCV,185544:1,17761,AR124
        Datafile                050318136
        Method                  GEBIOTA2017
138) RearSamp        37  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318137
        Method                  GEBIOTA2017
139) Sample          38  1242-CCV,185544:1,17761,AR124
        Datafile                050318138
        Method                  GEBIOTA2017
```

* ICVs for 40GCSJ did not meet criteria, this column run will not be used.
** GCSV Batch 17744 was screened 40GCSI 04/30/18 BLM 5/7/18

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Read and Understood By

Signed 5/7/18 Date Signed 5/7/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\050718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\050718\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run        Sequence Barcode Options
    (X) Full Method               (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only         ( ) On Mismatch, Don't Inject
                                  ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  PRIME
     Datafile          050718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          050718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          050718003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17762,AR124 OK
     Datafile          050718004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17762,AR124 OK
     Datafile          050718005
     Method            GEBIOTA2017
 6) Sample          6  1681428,,17750,BIOTA
     Datafile          050718006
     Method            GEBIOTA2017
 7) Sample          7  1681429,,17750,BIOTA
     Datafile          050718007
     Method            GEBIOTA2017
 8) Sample          8  40157940015 x20,,17750,BIOTA
     Datafile          050718008
     Method            GEBIOTA2017
 9) Sample          9  1681430 x20,,17750,BIOTA
     Datafile          050718009
     Method            GEBIOTA2017
10) Sample         10  1681911 x20,,17750,BIOTA
     Datafile          050718010
     Method            GEBIOTA2017
11) Sample         11  40157948008 x2,,17750,BIOTA
     Datafile          050718011
     Method            GEBIOTA2017
12) Sample         12  40157948009 x2,,17750,BIOTA
     Datafile          050718012
     Method            GEBIOTA2017
13) Sample         13  40157948011 x10,,17750,BIOTA
     Datafile          050718013
     Method            GEBIOTA2017
14) Sample         14  1681432 x10,,17750,BIOTA
     Datafile          050718014
     Method            GEBIOTA2017
15) Sample         15  40157948014 x5,,17750,BIOTA
     Datafile          050718015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17762,AR125 OK
     Datafile          050718016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17762,AR125 OK
     Datafile          050718017
     Method            GEBIOTA2017
18) Sample         18  40158017001 x3,,17750,BIOTA DS
     Datafile          050718018
     Method            GEBIOTA2017
19) Sample         19  40158017002 x3,,17750,BIOTA
     Datafile          050718019

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```

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Signed: [signature] Date: 5/10/18

Signed: [signature] Date: 5-10-18

```
      Method              GEBIOTA2017
20) Sample        20  40158017016,,17750,BIOTA
      Datafile            050718020
      Method              GEBIOTA2017
21) Sample        21  40158017017,,17750,BIOTA
      Datafile            050718021
      Method              GEBIOTA2017
22) Sample        22  40158017018,,17750,BIOTA
      Datafile            050718022
      Method              GEBIOTA2017
23) Sample        23  40158017019,,17750,BIOTA
      Datafile            050718023
      Method              GEBIOTA2017
24) Sample        24  40158017020,,17750,BIOTA
      Datafile            050718024
      Method              GEBIOTA2017
25) Sample        25  1681433,,17750,BIOTA
      Datafile            050718025
      Method              GEBIOTA2017
26) Sample        26  40158029002 x4,,17750,BIOTA
      Datafile            050718026
      Method              GEBIOTA2017
27) Sample        27  40158029004 x5,,17750,BIOTA
      Datafile            050718027
      Method              GEBIOTA2017
28) Sample        28  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718028
      Method              GEBIOTA2017
29) Sample        29  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718029
      Method              GEBIOTA2017
30) Sample        30  1681434 x5,,17750,BIOTA
      Datafile            050718030
      Method              GEBIOTA2017
31) Sample        31  1681906,,17754,BIOTA
      Datafile            050718031
      Method              GEBIOTA2017
32) Sample        32  1681907,,17754,BIOTA
      Datafile            050718032
      Method              GEBIOTA2017
33) Sample        33  40157948001 x5,,17754,BIOTA
      Datafile            050718033
      Method              GEBIOTA2017
34) Sample        34  40157948002 x3,,17754,BIOTA
      Datafile            050718034
      Method              GEBIOTA2017
35) Sample        35  40157948007 x5,,17754,BIOTA
      Datafile            050718035
      Method              GEBIOTA2017
36) Sample        36  1681908 x5,,17754,BIOTA
      Datafile            050718036
      Method              GEBIOTA2017
37) Sample        37  1681909 x5,,17754,BIOTA
      Datafile            050718037
      Method              GEBIOTA2017
38) Sample        38  40157948012 x20,,17754,BIOTA
      Datafile            050718038
      Method              GEBIOTA2017
39) Sample        39  40158013011 x20,,17754,BIOTA
      Datafile            050718039
      Method              GEBIOTA2017
40) Sample        40  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718040
      Method              GEBIOTA2017
41) Sample        41  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718041
      Method              GEBIOTA2017
42) Sample        42  40158013012 x15,,17754,BIOTA
      Datafile            050718042
      Method              GEBIOTA2017
43) Sample        43  40158017003 x5,,17754,BIOTA
      Datafile            050718043

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```

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Beg Meagl 5/10/18 Signed Date

Jim O'Gorman 5-10-18 Signed Date

Sequence Name: C:\msdchem\1\sequence\050718.s

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 44) | Sample | 44 | 40158017004 | x4,,17754 | BIOTA |
| | Datafile | | 050718044 | | |
| | Method | | GEBIOTA2017 | | |
| 45) | Sample | 45 | 40158017005 | x30,,17754 | BIOTA |
| | Datafile | | 050718045 | | |
| | Method | | GEBIOTA2017 | | |
| 46) | Sample | 46 | 40158017006 | x20,,17754 | BIOTA |
| | Datafile | | 050718046 | | |
| | Method | | GEBIOTA2017 | | |
| 47) | Sample | 47 | 1681910 | x20,,17754 | BIOTA |
| | Datafile | | 050718047 | | |
| | Method | | GEBIOTA2017 | | |
| 48) | Sample | 48 | 40158017007 | x15,,17754 | BIOTA |
| | Datafile | | 050718048 | | |
| | Method | | GEBIOTA2017 | | |
| 49) | Sample | 49 | 40158017008 | x20,,17754 | BIOTA |
| | Datafile | | 050718049 | | |
| | Method | | GEBIOTA2017 | | |
| 50) | Sample | 50 | 40158017009 | x20,,17754 | BIOTA |
| | Datafile | | 050718050 | | |
| | Method | | GEBIOTA2017 | | |
| 51) | Sample | 51 | 40158017010 | x20,,17754 | BIOTA |
| | Datafile | | 050718051 | | |
| | Method | | GEBIOTA2017 | | |
| 52) | Sample | 52 | 1232-CCV,185539:1 | 17762 | AR123 OK |
| | Datafile | | 050718052 | | |
| | Method | | GEBIOTA2017 | | |
| 53) | Sample | 53 | 1232-CCV,185539:1 | 17762 | AR123 OK |
| | Datafile | | 050718053 | | |
| | Method | | GEBIOTA2017 | | |
| 54) | Sample | 54 | 40158029001 | x15,,17754 | BIOTA |
| | Datafile | | 050718054 | | |
| | Method | | GEBIOTA2017 | | |
| 55) | Sample | 55 | 40158029005 | x2,,17754 | BIOTA |
| | Datafile | | 050718055 | | |
| | Method | | GEBIOTA2017 | | |
| 56) | Sample | 56 | 1682672,,17763 | | BIOTA |
| | Datafile | | 050718056 | | |
| | Method | | GEBIOTA2017 | | |
| 57) | Sample | 57 | 1682673,,17763 | | BIOTA |
| | Datafile | | 050718057 | | |
| | Method | | GEBIOTA2017 | | |
| 58) | Sample | 58 | 40157948003 | x4,,17763 | BIOTA |
| | Datafile | | 050718058 | | |
| | Method | | GEBIOTA2017 | | |
| 59) | Sample | 59 | 40157948004 | x2,,17763 | BIOTA |
| | Datafile | | 050718059 | | |
| | Method | | GEBIOTA2017 | | |
| 60) | Sample | 60 | 40157948005 | x5,,17763 | BIOTA RS |
| | Datafile | | 050718060 | | |
| | Method | | GEBIOTA2017 | | |
| 61) | Sample | 61 | 40157948010 | x5,,17763 | BIOTA |
| | Datafile | | 050718061 | | |
| | Method | | GEBIOTA2017 | | |
| 62) | Sample | 62 | 1682674 | x5,,17763 | BIOTA |
| | Datafile | | 050718062 | | |
| | Method | | GEBIOTA2017 | | |
| 63) | Sample | 63 | 40157948013 | x5,,17763 | BIOTA RS |
| | Datafile | | 050718063 | | |
| | Method | | GEBIOTA2017 | | |
| 64) | Sample | 64 | 1242-CCV,185544:1 | 17762 | AR124 OK |
| | Datafile | | 050718064 | | |
| | Method | | GEBIOTA2017 | | |
| 65) | Sample | 65 | 1242-CCV,185544:1 | 17762 | AR124 OK |
| | Datafile | | 050718065 | | |
| | Method | | GEBIOTA2017 | | |
| 66) | Sample | 66 | 40158013006 | x10,,17763 | BIOTA |
| | Datafile | | 050718066 | | |

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Read and Understood By

Signed: Bryan Meyer Date: 5/10/18

Signed: Jim O'Connor Date: 5-10-18

```
      Method                GEBIOTA2017
67) Sample          67  40158013007 x10,,17763,BIOTA
      Datafile              050718067
      Method                GEBIOTA2017
68) Sample          68  40158013008 x10,,17763,BIOTA
      Datafile              050718068
      Method                GEBIOTA2017
69) Sample          69  40158013009 x10,,17763,BIOTA
      Datafile              050718069
      Method                GEBIOTA2017
70) Sample          70  40158029006 x2,,17763,BIOTA
      Datafile              050718070
      Method                GEBIOTA2017
71) Sample          71  40158029007 x2,,17763,BIOTA
      Datafile              050718071
      Method                GEBIOTA2017
72) Sample          72  40158029008 x3,,17763,BIOTA
      Datafile              050718072
      Method                GEBIOTA2017
73) Sample          73  40158029009 x3,,17763,BIOTA
      Datafile              050718073
      Method                GEBIOTA2017
74) Sample          74  40158029010 x2,,17763,BIOTA
      Datafile              050718074
      Method                GEBIOTA2017
75) Sample          75  1682675 x2,,17763,BIOTA
      Datafile              050718075
      Method                GEBIOTA2017
76) Sample          76  1248-CCV,185549:1,17762,AR124 OK
      Datafile              050718076
      Method                GEBIOTA2017
77) Sample          77  1248-CCV,185549:1,17762,AR124 OK
      Datafile              050718077
      Method                GEBIOTA2017
78) Sample          78  1682677 x2,,17763,BIOTA
      Datafile              050718078
      Method                GEBIOTA2017
79) Sample          79  40158029011 x2,,17763,BIOTA
      Datafile              050718079
      Method                GEBIOTA2017
80) Sample          80  1683452,,17773,BIOTA
      Datafile              050718080
      Method                GEBIOTA2017
81) Sample          81  1683453,,17773,BIOTA
      Datafile              050718081
      Method                GEBIOTA2017
82) Sample          82  40157948006 x5,,17773,BIOTA
      Datafile              050718082
      Method                GEBIOTA2017
83) Sample          83  1683454 x5,,17773,BIOTA RS
      Datafile              050718083
      Method                GEBIOTA2017
84) Sample          84  40158017011,,17773,BIOTA
      Datafile              050718084
      Method                GEBIOTA2017
85) Sample          85  1683455,,17773,BIOTA
      Datafile              050718085
      Method                GEBIOTA2017
86) Sample          86  1683456,,17773,BIOTA
      Datafile              050718086
      Method                GEBIOTA2017
87) Sample          87  40158017012,,17773,BIOTA
      Datafile              050718087
      Method                GEBIOTA2017
88) Sample          88  1254-CCV,185554:1,17762,AR125 OK
      Datafile              050718088
      Method                GEBIOTA2017
89) Sample          89  1254-CCV,185554:1,17762,AR125 OK
      Datafile              050718089
      Method                GEBIOTA2017
90) Sample          90  40158017013,,17773,BIOTA
      Datafile              050718090

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```

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Read and Understood By

Bryan Meyl — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
      Method                GEBIOTA2017
91) Sample          91  40158017014,,17773,BIOTA
      Datafile              050718091
      Method                GEBIOTA2017
92) Sample          92  40158017015,,17773,BIOTA RS
      Datafile              050718092
      Method                GEBIOTA2017
93) Sample          93  40158029003 x5,,17773,BIOTA
      Datafile              050718093
      Method                GEBIOTA2017
94) Sample          94  40158029012 x2,,17773,BIOTA
      Datafile              050718094
      Method                GEBIOTA2017
95) Sample          95  1683457 x2,,17773,BIOTA
      Datafile              050718095
      Method                GEBIOTA2017
96) Sample          96  40158029013 x2,,17773,BIOTA
      Datafile              050718096
      Method                GEBIOTA2017

   Sequence Name: C:\msdchem\1\sequence\050718.s
```

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```
   Line Type          Vial  DataFile  Method    Sample Name
   ---------------------------------------------------------------
97) Sample          97  40158029014 x2,,17773,BIOTA
      Datafile              050718097
      Method                GEBIOTA2017
98) Sample          98  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718098
      Method                GEBIOTA2017
99) Sample          99  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718099
      Method                GEBIOTA2017
```

GCSV Batch 17750 Screened 40GCSI 05/01/18
GCSV Batch 17754 Screened 40GCSI 5/2/18
GCSV Batch 17763 Screened 40GCSI 5/3/18
GCSV Batch 17773 Screened 40GCSI 5/4/18

BLM 5/10/18

Continued on Page —

Read and Understood By

Bryan Maynard — Signed — 5/10/18 — Date
Jim O'Connor — Signed — 5-10-18 — Date

```
    Sequence Name: C:\msdchem\1\sequence\051018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\051018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  PRIME
     Datafile          051018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          051018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          051018003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17762,AR122 OK
     Datafile          051018004
     Method            GEBIOTA2017
 5) Sample          5  40158017001 x4,,17750,BIOTA
     Datafile          051018005
     Method            GEBIOTA2017
 6) Sample          6  40157948005 x6,,17763,BIOTA
     Datafile          051018006
     Method            GEBIOTA2017
 7) Sample          7  40157948013 x6,,17763,BIOTA
     Datafile          051018007
     Method            GEBIOTA2017
 8) Sample          8  1683454 x6,,17773,BIOTA
     Datafile          051018008
     Method            GEBIOTA2017
 9) Sample          9  40158017015,,17773,BIOTA
     Datafile          051018009
     Method            GEBIOTA2017
10) Sample         10  1232-CCV,185539:1,17762,AR123 OK
     Datafile          051018010
     Method            GEBIOTA2017

   Last Modified: Thu May 10 10:33:27 2018                Page:  1
```

BLM 5/10/18

Continued on Page -

Read and Understood By

Bryan Meyer 5/10/18 Signed Date

Jim O'Connor 5-10-18 Signed Date

# Standard Log Report

## Standards Log Information for Standard #195322

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | ETB | **Volume of Standard:** | 4 L | **Lot ID:** | NA |
| **Create Date:** | 05/02/2018 | **Manufacturer:** | N/A | **Part ID:** | N/A |
| **Expire Date:** | 11/02/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | RGNT498 |

**Notes:**

Hexane/Acetone 1:1 By ETB

## Compound Name and Concentration for Standard #195322

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | Hexanes | ug/mL |

## Composed of Information for Standard #195322

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 195250 | 2000 | mL |
| 193873 | 2000 | mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #195250

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | AMC | **Volume of Standard:** | 215 L | **Lot ID:** | 405891 |
| **Create Date:** | 05/01/2018 | **Manufacturer:** | J.T. Baker | **Part ID:** | 9262-8P |
| **Expire Date:** | 03/22/2019 | **Manufacturer Lot ID:** | 0000194330 | **Standard ID:** | RGNT150 |

**Notes:**

Hexane SVOA TANK Changed AMC 05/01/18

## Compound Name and Concentration for Standard #195250

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #195058

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | ETB | **Volume of Standard:** | 4 L | **Lot ID:** | NA |
| **Create Date:** | 04/30/2018 | **Manufacturer:** | N/A | **Part ID:** | N/A |
| **Expire Date:** | 10/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | RGNT498 |

**Notes:**

Hexane/Acetone 1:1 By ETB

## Compound Name and Concentration for Standard #195058

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | Hexanes | ug/mL |

## Composed of Information for Standard #195058

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 193872 | 2000 | mL |
| 192551 | 2000 | mL |

# Standard Log Report

## Standards Log Information for Standard #194916

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | DLH | **Volume of Standard:** | 5 kg | **Lot ID:** | 405550 |
| **Create Date:** | 04/26/2018 | **Manufacturer:** | JT Baker | **Part ID:** | 3375-09 |
| **Expire Date:** | 10/23/2018 | **Manufacturer Lot ID:** | 0000177456 | **Standard ID:** | RGNT301 |

**Notes:**

Sodium Sulfate SVOA baked 4/26/18

## Compound Name and Concentration for Standard #194916

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Sodium Sulfate | | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #194786

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 5 kg | **Lot ID:** | 405550 |
| **Create Date:** | 04/25/2018 | **Manufacturer:** | JT Baker | **Part ID:** | 3375-09 |
| **Expire Date:** | 10/25/2018 | **Manufacturer Lot ID:** | 0000177456 | **Standard ID:** | RGNT301 |

**Notes:**

Sodium Sulfate SVOA baked 4/25/18

## Compound Name and Concentration for Standard #194786

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Sodium Sulfate | | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #194642

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 5 kg | **Lot ID:** | 405550 |
| **Create Date:** | 04/24/2018 | **Manufacturer:** | JT Baker | **Part ID:** | 3375-09 |
| **Expire Date:** | 10/24/2018 | **Manufacturer Lot ID:** | 0000177456 | **Standard ID:** | RGNT301 |

**Notes:**

Sodium Sulfate SVOA baked 4/24/18

## Compound Name and Concentration for Standard #194642

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Sodium Sulfate | | | |

# Standard Log Report

## Standards Log Information for Standard #193873

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 4 L | **Lot ID:** | 405758 |
| **Create Date:** | 04/12/2018 | **Manufacturer:** | Burdick & Jackson | **Part ID:** | 010-4 |
| **Expire Date:** | 03/21/2019 | **Manufacturer Lot ID:** | DS923 | **Standard ID:** | RGNT036 |

**Notes:**

Acetone - 4L container

## Compound Name and Concentration for Standard #193873

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #193872

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 4 L | **Lot ID:** | 405758 |
| **Create Date:** | 04/12/2018 | **Manufacturer:** | Burdick & Jackson | **Part ID:** | 010-4 |
| **Expire Date:** | 03/21/2019 | **Manufacturer Lot ID:** | DS923 | **Standard ID:** | RGNT036 |

**Notes:**

Acetone - 4L container

## Compound Name and Concentration for Standard #193872

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #193230

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | ASD | **Volume of Standard:** | 1000 mL | **Lot ID:** | GCSV |
| **Create Date:** | 04/05/2018 | **Manufacturer:** | N/A | **Part ID:** | N/A |
| **Expire Date:** | 10/05/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 8081-SS |

**Notes:**

Pest/PCB Surrogate Spike 40GCSC.i\040618SurrCHK.b\A406068 TCMX-91.42% DCB-91.66%

## Compound Name and Concentration for Standard #193230

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | Decachlorobiphenyl (S) | 2 ug/mL |
| Tetrachloro-m-xylene (S) | 2 ug/mL | | |

## Composed of Information for Standard #193230

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 190942 | 999 | mL |
| 172034 | 1 | mL |

# Standard Log Report

## Standards Log Information for Standard #192551

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | AMC | **Volume of Standard:** | 215 L | **Lot ID:** | 405817 |
| **Create Date:** | 03/28/2018 | **Manufacturer:** | J.T. Baker | **Part ID:** | 9262-8P |
| **Expire Date:** | 03/22/2019 | **Manufacturer Lot ID:** | 0000191733 | **Standard ID:** | RGNT150 |

**Notes:**

Hexane SVOA TANK Changed AMC 3/28/18

## Compound Name and Concentration for Standard #192551

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #192096

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | ASD | **Volume of Standard:** | 200 mL | **Lot ID:** | GCSV |
| **Create Date:** | 03/22/2018 | **Manufacturer:** | N/A | **Part ID:** | N/A |
| **Expire Date:** | 09/22/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | AR1242-SPK |

**Notes:**

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

## Compound Name and Concentration for Standard #192096

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | PCB-1242 (Aroclor 1242) | 20 ug/mL |

## Composed of Information for Standard #192096

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 179368 | 196 | mL |
| 81343 | 1 | mL |
| 81342 | 1 | mL |
| 81341 | 1 | mL |
| 81340 | 1 | mL |

# Standard Log Report

## Standards Log Information for Standard #190942

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 4 L | **Lot ID:** | 405758 |
| **Create Date:** | 03/08/2018 | **Manufacturer:** | Burdick & Jackson | **Part ID:** | 010-4 |
| **Expire Date:** | 03/21/2019 | **Manufacturer Lot ID:** | DS923 | **Standard ID:** | RGNT036 |

**Notes:**

Acetone - 4L container

## Compound Name and Concentration for Standard #190942

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #188802

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | AMC | **Volume of Standard:** | 3 kg | **Lot ID:** | 405746 |
| **Create Date:** | 02/08/2018 | **Manufacturer:** | Fisher Scientific | **Part ID:** | F100-3 |
| **Expire Date:** | 08/07/2018 | **Manufacturer Lot ID:** | 175507 | **Standard ID:** | RGNT142 |

**Notes:**

Florisil, 60-100 Mesh by AMC

## Compound Name and Concentration for Standard #188802

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Florisil | | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #188142

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-ICV |

**Notes:**

1221 ICV Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #188142

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #188142

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188137 | 500 | uL |
| 188129 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #188141

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-CAL5 |

**Notes:**

1221 Cal 5 Std @ 1.0 ug/mL

## Compound Name and Concentration for Standard #188141

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .15 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | 1 ug/mL | PCB-1221 (Aroclor 1221)-1 | 1 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | 1 ug/mL | PCB-1221 (Aroclor 1221)-3 | 1 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | 1 ug/mL | PCB-1232 (Aroclor 1232)-5 | 1 ug/mL |
| Tetrachloro-m-xylene (S) | .15 ug/mL | | |

## Composed of Information for Standard #188141

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 1500 | uL |
| 185526 | 1000 | uL |
| 184640 | 97.5 | mL |

# Standard Log Report

## Standards Log Information for Standard #188140

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-CAL4 |

**Notes:**

1221 Cal 4 Std @ 0.8 ug/mL

## Compound Name and Concentration for Standard #188140

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .1 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | .8 ug/mL | PCB-1221 (Aroclor 1221)-1 | .8 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | .8 ug/mL | PCB-1221 (Aroclor 1221)-3 | .8 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | .8 ug/mL | PCB-1232 (Aroclor 1232)-5 | .8 ug/mL |
| Tetrachloro-m-xylene (S) | .1 ug/mL | | |

## Composed of Information for Standard #188140

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 1000 | uL |
| 185526 | 800 | uL |
| 184640 | 98.2 | mL |

# Standard Log Report

## Standards Log Information for Standard #188139

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-CAL2 |

**Notes:**

1221 Cal 2 Std @ 0.2 ug/mL

## Compound Name and Concentration for Standard #188139

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .02 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | .2 ug/mL | PCB-1221 (Aroclor 1221)-1 | .2 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | .2 ug/mL | PCB-1221 (Aroclor 1221)-3 | .2 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | .2 ug/mL | PCB-1232 (Aroclor 1232)-5 | .2 ug/mL |
| Tetrachloro-m-xylene (S) | .02 ug/mL | | |

## Composed of Information for Standard #188139

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 200 | uL |
| 185526 | 200 | uL |
| 184640 | 99.6 | mL |

# Standard Log Report

## Standards Log Information for Standard #188138

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-CAL1 |

**Notes:**

NY 1221 Cal 1 Std @ 0.1 ug/mL

## Compound Name and Concentration for Standard #188138

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .01 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | .1 ug/mL | PCB-1221 (Aroclor 1221)-1 | .1 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | .1 ug/mL | PCB-1221 (Aroclor 1221)-3 | .1 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | .1 ug/mL | PCB-1232 (Aroclor 1232)-5 | .1 ug/mL |
| Tetrachloro-m-xylene (S) | .01 ug/mL | | |

## Composed of Information for Standard #188138

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 100 | uL |
| 185526 | 100 | uL |
| 184640 | 99.8 | mL |

# Standard Log Report

## Standards Log Information for Standard #188137

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-STK |

**Notes:**

1221 ICV STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #188137

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1221 (Aroclor 1221) | 100 ug/mL |

## Composed of Information for Standard #188137

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 179816 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #188136

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-CAL1 |

**Notes:**

NY 1660 Cal 1 Std @ 0.1 ug/mL

## Compound Name and Concentration for Standard #188136

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .01 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | .1 ug/mL | PCB-1260 (Aroclor 1260) | .1 ug/mL |
| Tetrachloro-m-xylene (S) | .01 ug/mL | | |

## Composed of Information for Standard #188136

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 100 | uL |
| 185533 | 100 | uL |
| 184640 | 99.8 | mL |

# Standard Log Report

## Standards Log Information for Standard #188135

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-CAL1 |

**Notes:**

NY 1254 Cal 1 Std @ 0.1 ug/mL

## Compound Name and Concentration for Standard #188135

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .01 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | .1 ug/mL | Tetrachloro-m-xylene (S) | .01 ug/mL |

## Composed of Information for Standard #188135

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 100 | uL |
| 185530 | 100 | uL |
| 184640 | 99.8 | mL |

# Standard Log Report

## Standards Log Information for Standard #188134

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-CAL1 |

**Notes:**

NY 1248 Cal 1 Std @ 0.1 ug/mL

## Compound Name and Concentration for Standard #188134

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .01 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | .1 ug/mL | Tetrachloro-m-xylene (S) | .01 ug/mL |

## Composed of Information for Standard #188134

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 100 | uL |
| 185529 | 100 | uL |
| 184640 | 99.8 | mL |

# Standard Log Report

## Standards Log Information for Standard #188132

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 07/30/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-CAL1 |

**Notes:**

NY 1242 Cal 1 Std @ 0.1 ug/mL

## Compound Name and Concentration for Standard #188132

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .01 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | .1 ug/mL | PCB-1242 (Aroclor 1242) | .1 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | .1 ug/mL | PCB-1242 (Aroclor 1242)-7 | .1 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | .1 ug/mL | PCB-1242 (Aroclor 1242)-9 | .1 ug/mL |
| Tetrachloro-m-xylene (S) | .01 ug/mL | | |

## Composed of Information for Standard #188132

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 188129 | 100 | uL |
| 185528 | 100 | uL |
| 184640 | 99.8 | mL |

# Standard Log Report

## Standards Log Information for Standard #188129

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 20 mL | **Lot ID:** | GCSV |
| **Create Date:** | 01/30/2018 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | PEST-SUR |

**Notes:**

Pest/PCB Surr Std @ 10 ug/mL

## Compound Name and Concentration for Standard #188129

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | 10 ug/mL | Hexanes | ug/mL |
| Tetrachloro-m-xylene (S) | 10 ug/mL | | |

## Composed of Information for Standard #188129

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185958 | 1 | mL |
| 184640 | 19 | mL |

# Standard Log Report

## Standards Log Information for Standard #186910

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | AMC | **Volume of Standard:** | 3 kg | **Lot ID:** | 405706 |
| **Create Date:** | 01/12/2018 | **Manufacturer:** | Fisher Scientific | **Part ID:** | F100-3 |
| **Expire Date:** | 01/11/2020 | **Manufacturer Lot ID:** | 174228 | **Standard ID:** | RGNT142 |

**Notes:**

Florisil, 60-100 Mesh by AMC

## Compound Name and Concentration for Standard #186910

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Florisil | | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #185958

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BLM | **Volume of Standard:** | 1 mL | **Lot ID:** | 405693 |
| **Create Date:** | 01/02/2018 | **Manufacturer:** | Restek | **Part ID:** | 32000 |
| **Expire Date:** | 11/30/2023 | **Manufacturer Lot ID:** | A0130424 | **Standard ID:** | PEST-SUR |

**Notes:**

Pest/PCB Surr @ 200 ug/mL

## Compound Name and Concentration for Standard #185958

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | 200 ug/mL | Tetrachloro-m-xylene (S) | 200 ug/mL |

# Standard Log Report

## Standards Log Information for Standard #185565

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-ICV |

**Notes:**

1660 ICV Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185565

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | .5 ug/mL | PCB-1260 (Aroclor 1260) | .5 ug/mL |
| Tetrachloro-m-xylene (S) | .05 ug/mL | | |

## Composed of Information for Standard #185565

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185537 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185564

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-ICV |

**Notes:**

1254 ICV Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185564

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185564

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185536 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185563

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-ICV |

**Notes:**

1248 ICV Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185563

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185563

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185535 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185562

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-ICV |

**Notes:**

1242 ICV Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185562

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185562

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185534 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185561

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-CAL5 |

**Notes:**

1660 Cal 5 Std @ 1.0 ug/mL

## Compound Name and Concentration for Standard #185561

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .15 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | 1 ug/mL | PCB-1260 (Aroclor 1260) | 1 ug/mL |
| Tetrachloro-m-xylene (S) | .15 ug/mL | | |

## Composed of Information for Standard #185561

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185533 | 1 | mL |
| 185524 | 1500 | uL |
| 184640 | 97.5 | mL |

# Standard Log Report

## Standards Log Information for Standard #185560

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-CAL4 |

**Notes:**

1660 Cal 4 Std @ 0.8 ug/mL

## Compound Name and Concentration for Standard #185560

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .1 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | .8 ug/mL | PCB-1260 (Aroclor 1260) | .8 ug/mL |
| Tetrachloro-m-xylene (S) | .1 ug/mL | | |

## Composed of Information for Standard #185560

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185533 | 800 | uL |
| 185524 | 1 | mL |
| 184640 | 98.2 | mL |

# Standard Log Report

## Standards Log Information for Standard #185559

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 200 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-CAL3 |

**Notes:**

1660 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185559

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | .5 ug/mL | PCB-1260 (Aroclor 1260) | .5 ug/mL |
| Tetrachloro-m-xylene (S) | .05 ug/mL | | |

## Composed of Information for Standard #185559

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185533 | 1 | mL |
| 185524 | 1 | mL |
| 184640 | 198 | mL |

# Standard Log Report

## Standards Log Information for Standard #185558

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-CAL2 |

**Notes:**

1660 Cal 2 Std @ 0.2 ug/mL

## Compound Name and Concentration for Standard #185558

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .02 ug/mL | Hexanes | ug/mL |
| PCB-1016 (Aroclor 1016) | .2 ug/mL | PCB-1260 (Aroclor 1260) | .2 ug/mL |
| Tetrachloro-m-xylene (S) | .02 ug/mL | | |

## Composed of Information for Standard #185558

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185533 | 200 | uL |
| 185524 | 200 | uL |
| 184640 | 99.6 | mL |

# Standard Log Report

## Standards Log Information for Standard #185556

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-CAL5 |

**Notes:**

1254 Cal 5 Std @ 1.0 ug/mL

## Compound Name and Concentration for Standard #185556

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .15 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | 1 ug/mL | Tetrachloro-m-xylene (S) | .15 ug/mL |

## Composed of Information for Standard #185556

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185530 | 1000 | uL |
| 185524 | 1500 | uL |
| 184640 | 97.5 | mL |

# Standard Log Report

## Standards Log Information for Standard #185555

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-CAL4 |

**Notes:**

1254 Cal 4 Std @ 0.8 ug/mL

## Compound Name and Concentration for Standard #185555

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .1 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | .8 ug/mL | Tetrachloro-m-xylene (S) | .1 ug/mL |

## Composed of Information for Standard #185555

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185530 | 800 | uL |
| 185524 | 1000 | uL |
| 184640 | 98.2 | mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #185554

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 200 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-CAL3 |

**Notes:**

1254 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185554

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185554

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185530 | 1000 | uL |
| 185524 | 1000 | uL |
| 184640 | 198 | mL |

# Standard Log Report

## Standards Log Information for Standard #185553

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-CAL2 |

**Notes:**

1254 Cal 2 Std @ 0.2 ug/mL

## Compound Name and Concentration for Standard #185553

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .02 ug/mL | Hexanes | ug/mL |
| PCB-1254 (Aroclor 1254) | .2 ug/mL | Tetrachloro-m-xylene (S) | .02 ug/mL |

## Composed of Information for Standard #185553

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185530 | 200 | uL |
| 185524 | 200 | uL |
| 184640 | 99.6 | mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #185551

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-CAL5 |

**Notes:**

1248 Cal 5 Std @ 1.0 ug/mL

## Compound Name and Concentration for Standard #185551

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .15 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | 1 ug/mL | Tetrachloro-m-xylene (S) | .15 ug/mL |

## Composed of Information for Standard #185551

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185529 | 1 | mL |
| 185524 | 1500 | uL |
| 184640 | 97.5 | mL |

# Standard Log Report

## Standards Log Information for Standard #185550

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-CAL4 |

**Notes:**

1248 Cal 4 Std @ 0.8 ug/mL

## Compound Name and Concentration for Standard #185550

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .1 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | .8 ug/mL | Tetrachloro-m-xylene (S) | .1 ug/mL |

## Composed of Information for Standard #185550

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185529 | 800 | uL |
| 185524 | 1 | mL |
| 184640 | 98.2 | mL |

# Standard Log Report

## Standards Log Information for Standard #185549

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-CAL3 |

**Notes:**

1248 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185549

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185549

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185529 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185548

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-CAL2 |

**Notes:**

1248 Cal 2 Std @ 0.2 ug/mL

## Compound Name and Concentration for Standard #185548

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .02 ug/mL | Hexanes | ug/mL |
| PCB-1248 (Aroclor 1248) | .2 ug/mL | Tetrachloro-m-xylene (S) | .02 ug/mL |

## Composed of Information for Standard #185548

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185529 | 200 | uL |
| 185524 | 200 | uL |
| 184640 | 99.6 | mL |

# Standard Log Report

## Standards Log Information for Standard #185546

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-CAL5 |

**Notes:**

1242 Cal 5 Std @ 1.0 ug/mL

## Compound Name and Concentration for Standard #185546

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .15 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | 1 ug/mL | PCB-1242 (Aroclor 1242) | 1 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | 1 ug/mL | PCB-1242 (Aroclor 1242)-7 | 1 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | 1 ug/mL | PCB-1242 (Aroclor 1242)-9 | 1 ug/mL |
| Tetrachloro-m-xylene (S) | .15 ug/mL | | |

## Composed of Information for Standard #185546

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185528 | 1000 | uL |
| 185524 | 1500 | uL |
| 184640 | 97.5 | mL |

# Standard Log Report

## Standards Log Information for Standard #185545

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-CAL4 |

**Notes:**

1242 Cal 4 Std @ 0.8 ug/mL

## Compound Name and Concentration for Standard #185545

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .1 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | .8 ug/mL | PCB-1242 (Aroclor 1242) | .8 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | .8 ug/mL | PCB-1242 (Aroclor 1242)-7 | .8 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | .8 ug/mL | PCB-1242 (Aroclor 1242)-9 | .8 ug/mL |
| Tetrachloro-m-xylene (S) | .1 ug/mL | | |

## Composed of Information for Standard #185545

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185528 | 800 | uL |
| 185524 | 1000 | uL |
| 184640 | 98.2 | mL |

# Standard Log Report

## Standards Log Information for Standard #185544

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 200 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-CAL3 |

**Notes:**

1242 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185544

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | .5 ug/mL | PCB-1242 (Aroclor 1242) | .5 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | .5 ug/mL | PCB-1242 (Aroclor 1242)-7 | .5 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | .5 ug/mL | PCB-1242 (Aroclor 1242)-9 | .5 ug/mL |
| Tetrachloro-m-xylene (S) | .05 ug/mL | | |

## Composed of Information for Standard #185544

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185528 | 1000 | uL |
| 185524 | 1000 | uL |
| 184640 | 198 | mL |

# Standard Log Report

## Standards Log Information for Standard #185543

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-CAL2 |

**Notes:**

1242 Cal 2 Std @ 0.2 ug/mL

## Compound Name and Concentration for Standard #185543

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .02 ug/mL | Hexanes | ug/mL |
| PCB-1242 (Aroclor 1242) | .2 ug/mL | PCB-1242 (Aroclor 1242) | .2 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | .2 ug/mL | PCB-1242 (Aroclor 1242)-7 | .2 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | .2 ug/mL | PCB-1242 (Aroclor 1242)-9 | .2 ug/mL |
| Tetrachloro-m-xylene (S) | .02 ug/mL | | |

## Composed of Information for Standard #185543

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185528 | 200 | uL |
| 185524 | 200 | uL |
| 184640 | 99.6 | mL |

# Standard Log Report

## Standards Log Information for Standard #185539

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1232-CAL3 |

**Notes:**

1232 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185539

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1232 (Aroclor 1232) | .5 ug/mL | Tetrachloro-m-xylene (S) | .05 ug/mL |

## Composed of Information for Standard #185539

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185527 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185538

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 100 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 06/27/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-CAL3 |

**Notes:**

1221 Cal 3 Std @ 0.5 ug/mL

## Compound Name and Concentration for Standard #185538

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | .05 ug/mL | Hexanes | ug/mL |
| PCB-1221 (Aroclor 1221) | .5 ug/mL | PCB-1221 (Aroclor 1221)-1 | .5 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | .5 ug/mL | PCB-1221 (Aroclor 1221)-3 | .5 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | .5 ug/mL | PCB-1232 (Aroclor 1232)-5 | .5 ug/mL |
| Tetrachloro-m-xylene (S) | .05 ug/mL | | |

## Composed of Information for Standard #185538

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 185526 | 500 | uL |
| 185524 | 500 | uL |
| 184640 | 99 | mL |

# Standard Log Report

## Standards Log Information for Standard #185537

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 08/09/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-STK |

**Notes:**

1660 ICV STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185537

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1016 (Aroclor 1016) | 100 ug/mL |
| PCB-1260 (Aroclor 1260) | 100 ug/mL | | |

## Composed of Information for Standard #185537

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 175600 | 1 | mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #185536

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-STK |

**Notes:**

1254 ICV STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185536

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1254 (Aroclor 1254) | 100 ug/mL |

## Composed of Information for Standard #185536

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173678 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185535

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-STK |

**Notes:**

1248 ICV STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185535

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1248 (Aroclor 1248) | 100 ug/mL |

## Composed of Information for Standard #185535

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173676 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185534

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | O2Si | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-STK |

**Notes:**

1242 ICV STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185534

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1242 (Aroclor 1242) | 100 ug/mL |

## Composed of Information for Standard #185534

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173674 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185533

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1660-STK |

**Notes:**

1660 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185533

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1016 (Aroclor 1016) | 100 ug/mL |
| PCB-1260 (Aroclor 1260) | 100 ug/mL | | |

## Composed of Information for Standard #185533

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173188 | 1 | mL |

# Standard Log Report

## Standards Log Information for Standard #185530

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1254-STK |

**Notes:**

1254 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185530

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1254 (Aroclor 1254) | 100 ug/mL |

## Composed of Information for Standard #185530

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173182 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185529

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1248-STK |

**Notes:**

1248 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185529

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1248 (Aroclor 1248) | 100 ug/mL |

## Composed of Information for Standard #185529

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173180 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185528

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185528

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1242 (Aroclor 1242) | 100 ug/mL |
| PCB-1242 (Aroclor 1242) | 100 ug/mL | PCB-1242 (Aroclor 1242)-6 | 100 ug/mL |
| PCB-1242 (Aroclor 1242)-7 | 100 ug/mL | PCB-1242 (Aroclor 1242)-8 | 100 ug/mL |
| PCB-1242 (Aroclor 1242)-9 | 100 ug/mL | | |

## Composed of Information for Standard #185528

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173178 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185527

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1232-STK |

**Notes:**

1232 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185527

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1232 (Aroclor 1232) | 100 ug/mL |

## Composed of Information for Standard #185527

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173176 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185526

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 10 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | 1221-STK |

**Notes:**

1221 STK Std @ 100 ug/mL

## Compound Name and Concentration for Standard #185526

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | PCB-1221 (Aroclor 1221) | 100 ug/mL |
| PCB-1221 (Aroclor 1221)-1 | 100 ug/mL | PCB-1221 (Aroclor 1221)-2 | 100 ug/mL |
| PCB-1221 (Aroclor 1221)-3 | 100 ug/mL | PCB-1221 (Aroclor 1221)-4 | 100 ug/mL |
| PCB-1232 (Aroclor 1232)-5 | 100 ug/mL | | |

## Composed of Information for Standard #185526

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 9 | mL |
| 173174 | 1000 | uL |

# Standard Log Report

## Standards Log Information for Standard #185524

**WORKING STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 20 mL | **Lot ID:** | GCSV |
| **Create Date:** | 12/27/2017 | **Manufacturer:** | Restek | **Part ID:** | N/A |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | N/A | **Standard ID:** | PEST-SUR |

**Notes:**

Pest/PCB Surr Std @ 10 ug/mL

## Compound Name and Concentration for Standard #185524

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | 10 ug/mL | Hexanes | ug/mL |
| Tetrachloro-m-xylene (S) | 10 ug/mL | | |

## Composed of Information for Standard #185524

| Composed of Standard Seq | Volume | Units |
|---|---|---|
| 184640 | 19 | mL |
| 178398 | 1 | mL |

# Standard Log Report

## Standards Log Information for Standard #184640

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | AMC | **Volume of Standard:** | 215 L | **Lot ID:** | 405661 |
| **Create Date:** | 12/12/2017 | **Manufacturer:** | J.T. Baker | **Part ID:** | 9262-8P |
| **Expire Date:** | 12/15/2018 | **Manufacturer Lot ID:** | 0000183983 | **Standard ID:** | RGNT150 |

**Notes:**

Hexane SVOA TANK Changed AMC 12/12/17

## Compound Name and Concentration for Standard #184640

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Hexanes | ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #179816

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 1 mL | **Lot ID:** | 405540 |
| **Create Date:** | 10/09/2017 | **Manufacturer:** | o2si | **Part ID:** | 030273-11 |
| **Expire Date:** | 09/01/2021 | **Manufacturer Lot ID:** | 316120 | **Standard ID:** | 1221-STK |

**Notes:**

1221 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #179816

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1221 (Aroclor 1221) | 1000 ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #179368

**STOCK STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 4 L | **Lot ID:** | 405532 |
| **Create Date:** | 10/02/2017 | **Manufacturer:** | Burdick & Jackson | **Part ID:** | 010-4 |
| **Expire Date:** | 01/08/2019 | **Manufacturer Lot ID:** | DS490 | **Standard ID:** | RGNT036 |

**Notes:**

Acetone - 4L container

## Compound Name and Concentration for Standard #179368

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Acetone | ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #178398

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | DMH | **Volume of Standard:** | 1 mL | **Lot ID:** | 405520 |
| **Create Date:** | 09/18/2017 | **Manufacturer:** | Restek | **Part ID:** | 32000 |
| **Expire Date:** | 06/30/2023 | **Manufacturer Lot ID:** | A0125833 | **Standard ID:** | PEST-SUR |

**Notes:**

Pest/PCB Surr @ 200 ug/mL

## Compound Name and Concentration for Standard #178398

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | 200 ug/mL | Tetrachloro-m-xylene (S) | 200 ug/mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #175600

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405431 |
| **Create Date:** | 08/09/2017 | **Manufacturer:** | O2SI | **Part ID:** | 130011-03 |
| **Expire Date:** | 08/09/2018 | **Manufacturer Lot ID:** | 311587 | **Standard ID:** | 1660-STK |

**Notes:**

1016/1260 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #175600

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1016 (Aroclor 1016) | 1000 ug/mL | PCB-1260 (Aroclor 1260) | 1000 ug/mL |

# Standard Log Report

## Standards Log Information for Standard #173678

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405386 |
| **Create Date:** | 07/17/2017 | **Manufacturer:** | O2Si | **Part ID:** | 030277-06 |
| **Expire Date:** | 03/21/2020 | **Manufacturer Lot ID:** | 302980 | **Standard ID:** | 1254-STK |

**Notes:**

1254 ICV STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173678

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1254 (Aroclor 1254) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #173676

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405385 |
| **Create Date:** | 07/17/2017 | **Manufacturer:** | O2Si | **Part ID:** | 030276-15 |
| **Expire Date:** | 01/14/2020 | **Manufacturer Lot ID:** | 296389 | **Standard ID:** | 1248-STK |

**Notes:**

1248 ICV STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173676

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1248 (Aroclor 1248) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #173674

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405384 |
| **Create Date:** | 07/17/2017 | **Manufacturer:** | O2Si | **Part ID:** | 030275-03 |
| **Expire Date:** | 03/20/2027 | **Manufacturer Lot ID:** | 302979 | **Standard ID:** | 1242-STK |

**Notes:**

1242 ICV STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173674

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #173188

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405375 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32039 |
| **Expire Date:** | 04/30/2023 | **Manufacturer Lot ID:** | A0124547 | **Standard ID:** | 1660-STK |

**Notes:**

Ar1660 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173188

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1016 (Aroclor 1016) | 1000 ug/mL | PCB-1260 (Aroclor 1260) | 1000 ug/mL |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #173182

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405372 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32011 |
| **Expire Date:** | 05/31/2023 | **Manufacturer Lot ID:** | A0125350 | **Standard ID:** | 1254-STK |

**Notes:**

1254 STK Std @ 1000 ug/mL L

## Compound Name and Concentration for Standard #173182

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1254 (Aroclor 1254) | 1000 ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #173180

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405371 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32010 |
| **Expire Date:** | 12/31/2022 | **Manufacturer Lot ID:** | A0121842 | **Standard ID:** | 1248-STK |

**Notes:**

1248 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173180

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1248 (Aroclor 1248) | 1000 ug/mL | | |

# Standard Log Report

## Standards Log Information for Standard #173178

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405370 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32009 |
| **Expire Date:** | 04/30/2023 | **Manufacturer Lot ID:** | A0124535 | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173178

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | PCB-1242 (Aroclor 1242) | 1000 ug/mL |
| PCB-1242 (Aroclor 1242)-6 | 1000 ug/mL | PCB-1242 (Aroclor 1242)-7 | 1000 ug/mL |
| PCB-1242 (Aroclor 1242)-8 | 1000 ug/mL | PCB-1242 (Aroclor 1242)-9 | 1000 ug/mL |

# Standard Log Report

## Standards Log Information for Standard #173176

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405369 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32008 |
| **Expire Date:** | 04/30/2023 | **Manufacturer Lot ID:** | A0124534 | **Standard ID:** | 1232-STK |

**Notes:**

1232 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173176

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1232 (Aroclor 1232) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #173174

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | BDS | **Volume of Standard:** | 1 mL | **Lot ID:** | 405368 |
| **Create Date:** | 07/07/2017 | **Manufacturer:** | Restek | **Part ID:** | 32007 |
| **Expire Date:** | 06/30/2023 | **Manufacturer Lot ID:** | A0126078 | **Standard ID:** | 1221-STK |

**Notes:**

1221 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #173174

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1221 (Aroclor 1221) | 1000 ug/mL | PCB-1221 (Aroclor 1221)-1 | 1000 ug/mL |
| PCB-1221 (Aroclor 1221)-2 | 1000 ug/mL | PCB-1221 (Aroclor 1221)-3 | 1000 ug/mL |
| PCB-1221 (Aroclor 1221)-4 | 1000 ug/mL | PCB-1232 (Aroclor 1232)-5 | 1000 ug/mL |

# Standard Log Report

## Standards Log Information for Standard #172034

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | MRN | **Volume of Standard:** | 10 mL | **Lot ID:** | 405341 |
| **Create Date:** | 06/23/2017 | **Manufacturer:** | O2SI | **Part ID:** | 130023-15 |
| **Expire Date:** | 11/06/2018 | **Manufacturer Lot ID:** | 311236 | **Standard ID:** | PEST-SUR |

**Notes:**

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

## Compound Name and Concentration for Standard #172034

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| Decachlorobiphenyl (S) | 2000 ug/mL | Tetrachloro-m-xylene (S) | 2000 ug/mL |

# Standard Log Report

## Standards Log Information for Standard #81343

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | CAC | **Volume of Standard:** | 1 mL | **Lot ID:** | 403271 |
| **Create Date:** | 04/22/2014 | **Manufacturer:** | O2SI | **Part ID:** | 030275-07 |
| **Expire Date:** | 04/15/2024 | **Manufacturer Lot ID:** | 226760 | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #81343

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #81342

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | CAC | **Volume of Standard:** | 1 mL | **Lot ID:** | 403271 |
| **Create Date:** | 04/22/2014 | **Manufacturer:** | O2SI | **Part ID:** | 030275-07 |
| **Expire Date:** | 04/15/2024 | **Manufacturer Lot ID:** | 226760 | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #81342

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #81341

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | CAC | **Volume of Standard:** | 1 mL | **Lot ID:** | 403271 |
| **Create Date:** | 04/22/2014 | **Manufacturer:** | O2SI | **Part ID:** | 030275-07 |
| **Expire Date:** | 04/15/2024 | **Manufacturer Lot ID:** | 226760 | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #81341

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

# Standard Log Report

## Standards Log Information for Standard #81340

**INDIVIDUAL STANDARD**

| | | | | | |
|---|---|---|---|---|---|
| **Created By:** | CAC | **Volume of Standard:** | 1 mL | **Lot ID:** | 403271 |
| **Create Date:** | 04/22/2014 | **Manufacturer:** | O2SI | **Part ID:** | 030275-07 |
| **Expire Date:** | 04/15/2024 | **Manufacturer Lot ID:** | 226760 | **Standard ID:** | 1242-STK |

**Notes:**

1242 STK Std @ 1000 ug/mL

## Compound Name and Concentration for Standard #81340

| Compound Name | Concentration | Compound Name | Concentration |
|---|---|---|---|
| PCB-1242 (Aroclor 1242) | 1000 ug/mL | | |

The standards listed are from Pace's Green Bay Laboratory.

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Date Received: 4/22/14 cre

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Rev 0 **Page**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 030275-03 | 226760 | Ambient or Less | Hexane | 15-Apr-2024 | Aroclor 1242 Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1242 | 53469-21-9 | 100 | 275.3.3P | 1003 +/- 10.66 | mg/L |

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 130023-15 | 311236 | ≤ 6 °C | Tol.:Hex. 1:1 | 8-Jun-2019 | Pesticide Surrogate Solution, 2,000 mg/L, 10 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| decachlorobiphenyl (BZ# 209) | 2051-24-3 | 99.1 | 301.115.5P | 2022 +/- 4.56 | mg/L |
| 2,4,5,6-tetrachloro-m-xylene | 877-09-8 | 98.6 | 300.115.3P | 1996 +/- 14.54 | mg/L |

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32007 **Lot No.:** A0126078

**Description :** Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2023 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | Aroclor 1221 | | 1,008.4 µg/mL | +/- 5.9179 | µg/mL | Gravimetric |
| | **CAS #** 11104-28-2 | (Lot 2781200) | | +/- 31.9602 | µg/mL | Unstressed |
| | **Purity** ----% | | | +/- 41.7506 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

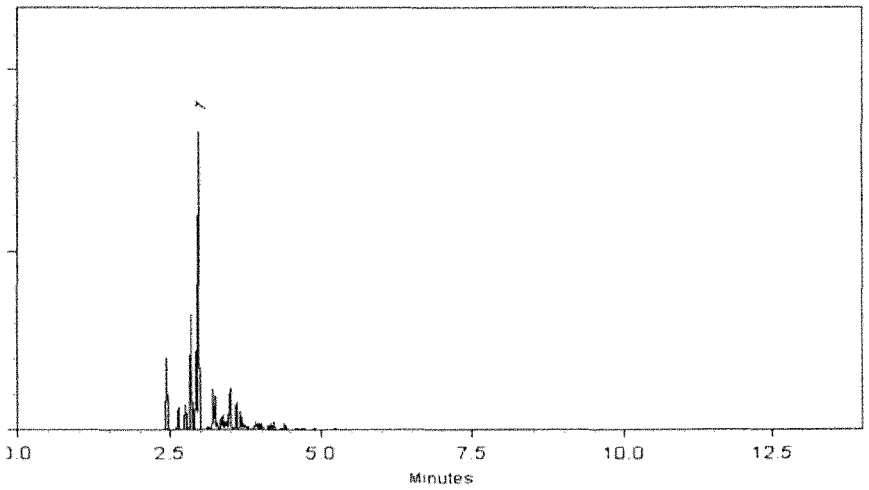
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 27-Mar-2017

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Certificate #FM 80397

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**Catalog No. :** 32008 **Lot No.:** A0124534

**Description :** Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2023 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Aroclor 1232 | 1,000.0 µg/mL | +/- 5.9397 µg/mL | Gravimetric |
| | **CAS #** 11141-16-5 (Lot W-107-05) | | +/- 31.7072 µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.4130 µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

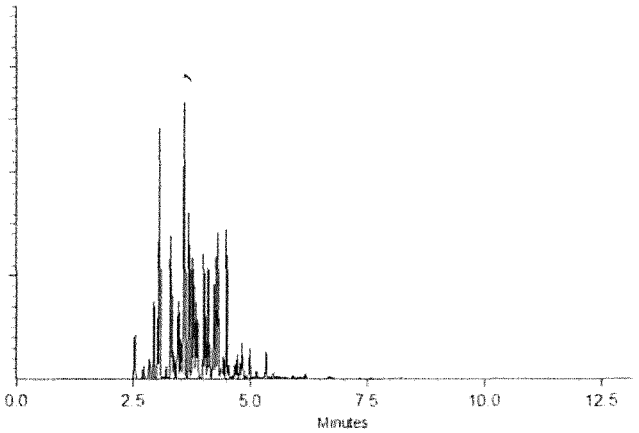
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

**Date Mixed:** 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

**Date Passed:** 31-Jan-2017

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**Catalog No. :** 32009 **Lot No.:** A0124535

**Description :** Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2023 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | Aroclor 1242 | | 1,002.0 µg/mL | +/- 5.9516 | µg/mL | Gravimetric |
| | **CAS #** 53469-21-9 | (Lot 01141-A) | | +/- 31.7706 | µg/mL | Unstressed |
| | **Purity** ----% | | | +/- 41.4958 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

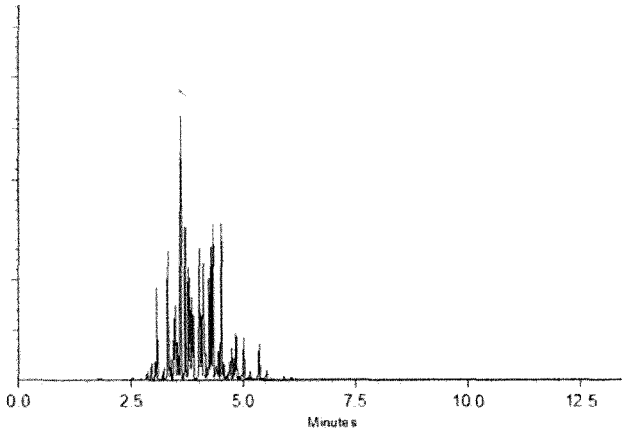
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

**Date Mixed:** 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 31-Jan-2017

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32010 **Lot No.:** A0121842

**Description :** Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2022 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Aroclor 1248 | 996.8 µg/mL | +/- 5.8498 µg/mL | Gravimetric |
| | **CAS #** 12672-29-6 (Lot 07) | | +/- 31.5925 µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.2704 µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

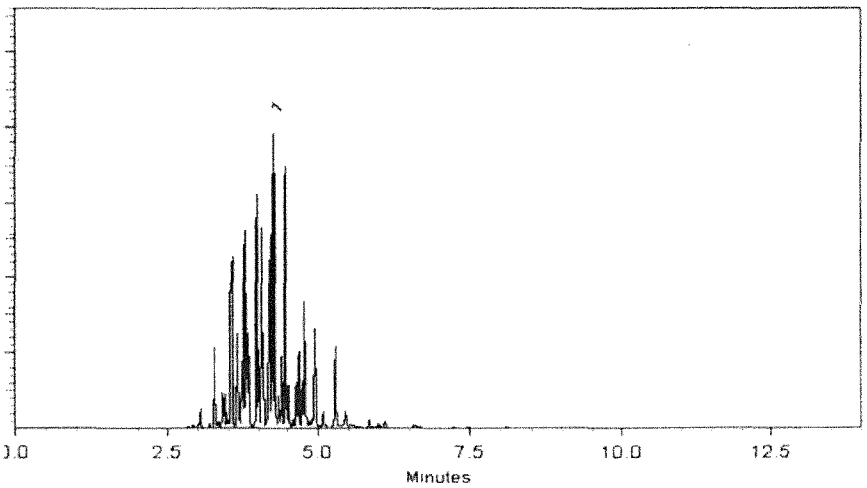
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

**Date Mixed:** 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

**Date Passed:** 03-Oct-2016

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32011 **Lot No.:** A0125350

**Description :** Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2023 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | Aroclor 1254 | | 1,005.6 µg/mL | +/- 5.9014 | µg/mL | Gravimetric |
| | **CAS #** 11097-69-1 | (Lot 124-191-B) | | +/- 31.8715 | µg/mL | Unstressed |
| | **Purity** ----% | | | +/- 41.6347 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

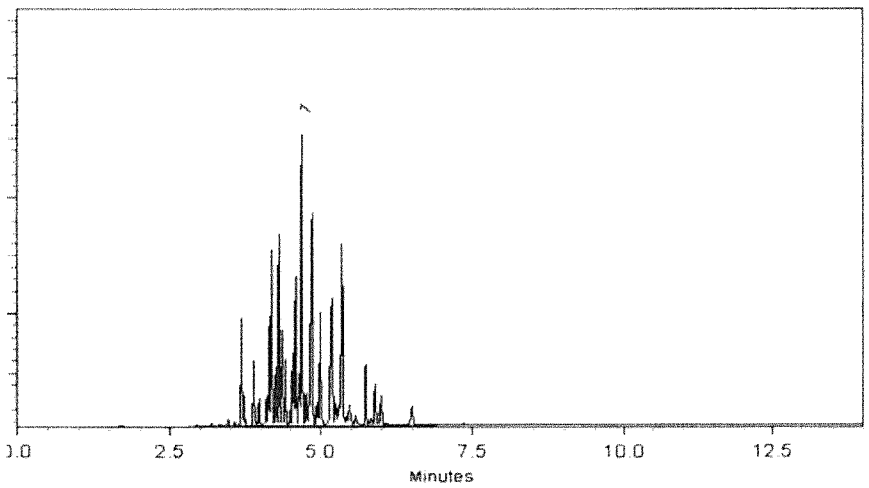
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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**Catalog No. :** 32039 **Lot No.:** A0124547

**Description :** Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2023 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | Aroclor 1016 | | 1,002.0 µg/mL | +/- 5.8392 | µg/mL | Gravimetric |
| | **CAS #** 12674-11-2 | (Lot W-125-04) | | +/- 31.7498 | µg/mL | Unstressed |
| | **Purity** ----% | | | +/- 41.4799 | µg/mL | Stressed |
| 2 | Aroclor 1260 | | 1,002.2 µg/mL | +/- 5.8403 | µg/mL | Gravimetric |
| | **CAS #** 11096-82-5 | (Lot W-129-06) | | +/- 31.7561 | µg/mL | Unstressed |
| | **Purity** ----% | | | +/- 41.4881 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

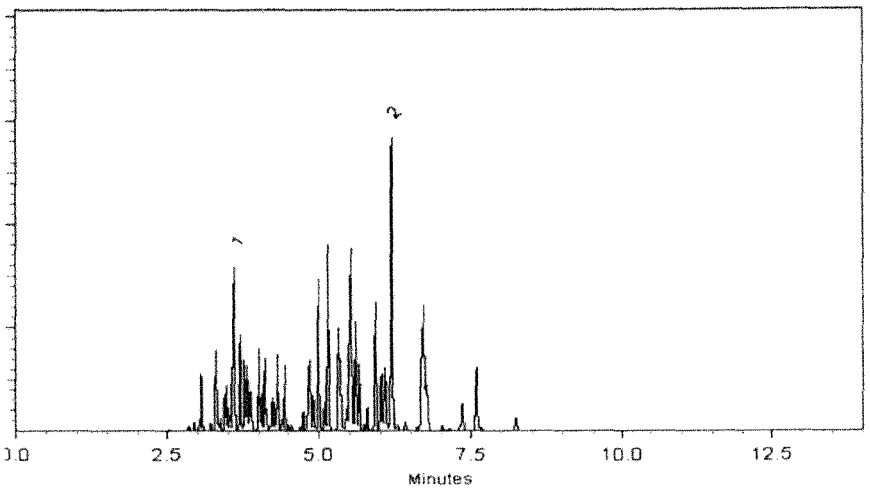
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis

**Cathleen Soltis - Mix Technician**

**Date Mixed:** 30-Jan-2017 **Balance:** B442140311

Jennifer J Pollino

**Jennifer Pollino - Operations Tech-ARM QC**

**Date Passed:** 01-Feb-2017

**Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397**

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| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 030275-03 | 302979 | Ambient or Less | Hexane | 20-Mar-2027 | Aroclor 1242 Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1242 | 53469-21-9 | 100 | 275.3.5.2P | 1010 +/- 7.38 | mg/L |

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 030276-15 | 296389 | ≤ Ambient | Hexane | 14-Jan-2020 | Aroclor 1248 Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1248 | 12672-29-6 | 100 | 276.3.1P | 1008 +/- 4.47 | mg/L |

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Rev 0 **Page 1 of 1**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 030277-06 | 302980 | ≤ Ambient | Hexane | 21-Mar-2020 | Aroclor 1254 Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1254 | 11097-69-1 | 100 | 277.6.4P | 1004 +/- 4.32 | mg/L |

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 130011-03 | 311587 | ≤ Ambient | Hexane | 28-Jul-2020 | Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1016 | 12674-11-2 | 100 | 272.5.1.6P | 1006 +/- 3.01 | mg/L |
| Aroclor 1260 | 11096-82-5 | 100 | 278.3.10P | 1016 +/- 3.02 | mg/L |

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32000 **Lot No.:** A0125833

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2023 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use.

DMH 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | | 201.5 µg/mL | +/- 1.1742 | µg/mL | Gravimetric |
| | **CAS #** 877-09-8 | (Lot 0052481) | | +/- 6.3844 | µg/mL | Unstressed |
| | **Purity** 98% | | | +/- 8.3410 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | | 201.9 µg/mL | +/- 1.1766 | µg/mL | Gravimetric |
| | **CAS #** 2051-24-3 | (Lot ER071509-01) | | +/- 6.3975 | µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 8.3581 | µg/mL | Stressed |

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

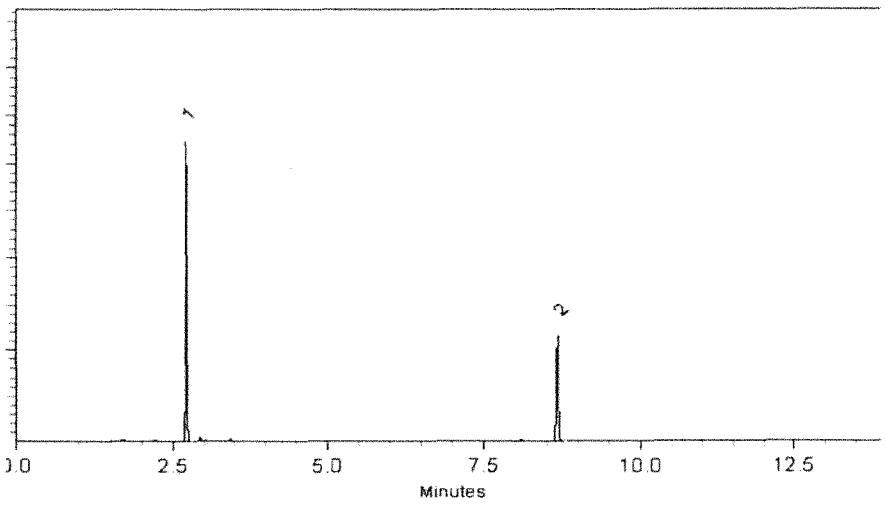
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

**Date Mixed:** 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

**Date Passed:** 17-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

# Honeywell

CERTIFICATE OF ANALYSIS

**Honeywell Burdick & Jackson®**
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

| | |
|---|---|
| **Brand:** | Research Chemicals - B&J |
| **Product:** | 010 |
| **Lot No.:** | DS490 |
| **Production Date:** | 10-Jul-2017 |
| **Best Before:** | 8-Jan-2019 |

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

| Parameter | Specification Min. | Max. | Result | Units |
|---|---|---|---|---|
| Water by Karl Fischer Titration | | 0.50 | 0.31 | % |
| UV Cutoff | | 330 | 328 | nm |
| Refractive Index (20°C) | 1.3583 | 1.3589 | 1.3586 | |
| Residue | | 1 | <0.5 | mg/L |
| GC Analysis (excluding water) | 99.9 | | 99.97 | % |
| Electron Capture GC | | 10 | <10 | ng/L |
| UV Absorbance @ 340 nm | | 0.060 | 0.0481 | AU |
| UV Absorbance @ 350 nm | | 0.010 | 0.0014 | AU |
| UV Absorbance @ 375 nm | | 0.005 | <0.0001 | AU |
| UV Absorbance @ 400 nm | | 0.005 | <0.0001 | AU |

**Honeywell**
**Quality Control Approval**

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 030273-11 | 316120 | ≤ Ambient | Hexane | 1-Sep-2021 | Aroclor 1221 Solution, 1,000 mg/L, 1 ml |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|---|---|---|---|---|---|
| Aroclor 1221 | 11104-28-2 | 100 | 273.3.2P | 1018 +/- 3.01 | mg/L |

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

# Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|---|---|---|
| ACS - Assay ($Na_2SO_4$) | >= 99.0 % | 99.2 |
| ACS - Insoluble Matter | <= 0.01 % | < 0.01 |
| ACS - Loss on Ignition | <= 0.5 % | 0.1 |
| ACS - pH of 5% Solution at 25°C | 5.2 - 9.2 | 6.0 |
| ACS - Chloride (Cl) | <= 0.001 % | < 0.001 |
| ACS - Phosphate ($PO_4$) | <= 0.001 % | < 0.001 |
| ACS - Calcium (Ca) | <= 0.01 % | < 0.01 |
| ACS - Iron (Fe) | <= 0.001 % | < 0.001 |
| ACS - Magnesium (Mg) | <= 0.005 % | < 0.005 |
| ACS - Potassium (K) | <= 0.01 % | < 0.01 |
| ACS - Extraction-Concentration Suitability * | Passes Test | PT |
| ACS - Heavy Metals (as Pb) | <= 5 ppm | < 5 |
| Nitrogen Compounds (as N) | <= 5 ppm | < 5 |

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | <= 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | 1 |
| Assay (Total Saturated $C_6$ Isomers) (by GC, corrected for water) | >= 99.5 % | 99.8 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.5 |
| Substances Darkened by $H_2SO_4$ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

# RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32000 **Lot No.:** A0130424

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2023 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | | 201.2 µg/mL | +/- 1.1725 | µg/mL | Gravimetric |
| | **CAS #** 877-09-8 | (Lot 0052481) | | +/- 6.3751 | µg/mL | Unstressed |
| | **Purity** 98% | | | +/- 8.3288 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | | 201.5 µg/mL | +/- 1.1742 | µg/mL | Gravimetric |
| | **CAS #** 2051-24-3 | (Lot ER071509-01) | | +/- 6.3848 | µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 8.3415 | µg/mL | Stressed |

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

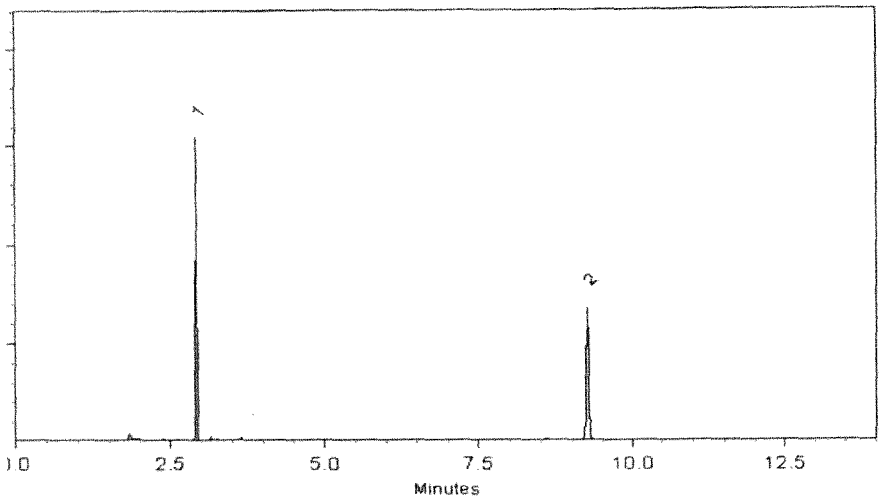
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

o2si smart solutions®

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

# Certificate of Analysis

Rev 1



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 020986-02 -02-SS | 297165 | ≤ -10 °C | P/T Methanol | 16-Jan-2020 | Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml |

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration |
|---|---|---|---|---|
| dichlorofluoromethane (Freon 21) | 75-43-4 | 99 | 986.158.2.2.1S | 2008 +/- 20.85 mg/L |

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By --

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | <= 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated $C_6$ Isomers) (by GC, corrected for water) | >= 99.5 % | 100.0 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 99 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 |
| Substances Darkened by $H_2SO_4$ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405891
REC.05/01/18 BY AMC
Exp. __/__/__ By __
Open __/__/__ By __

Material No.: 9262-8P
Batch No.: 0000194330
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | <= 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated $C_6$ Isomers) (by GC, corrected for water) | >= 99.5 % | 100.0 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 99 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 |
| Substances Darkened by $H_2SO_4$ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW5-170830-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029001 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 6.4 | | % | 1 | 05/01/2018 14:24 |

SAMPLE NO.

SW5-170830-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029002 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 4.4 | | % | 1 | 04/30/2018 14:43 |

SAMPLE NO.

SW4-170830-01-MMSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029003 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 3.1 | | % | 1 | 05/03/2018 09:46 |

SAMPLE NO.

SW4-170830-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029004 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 3.5 | | % | 1 | 04/30/2018 14:44 |

SAMPLE NO.

AT1-170830-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029005 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 2.0 | | % | 1 | 05/01/2018 14:24 |

SAMPLE NO.

AT1-170830-01-SFSH-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029006 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 3.2 | | % | 1 | 05/02/2018 10:15 |

SAMPLE NO.

AT1-170830-01-SFSH-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029007 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 3.9 | | % | 1 | 05/02/2018 10:16 |

SAMPLE NO.

AT1-170830-01-SFSH-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029008 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 5.3 | | % | 1 | 05/02/2018 10:16 |

SAMPLE NO.

AT1-170830-01-SFSH-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029009 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 4.7 | | % | 1 | 05/02/2018 10:16 |

SAMPLE NO.

AT1-170830-01-SFSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029010 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 5.6 | | % | 1 | 05/02/2018 10:16 |

SAMPLE NO.

AT1-170830-01-SFSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029011 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 4.1 | | % | 1 | 05/02/2018 10:17 |

SAMPLE NO.

AT1-170830-01-MIN-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029012 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 2.8 | | % | 1 | 05/03/2018 09:46 |

SAMPLE NO.

AT1-170830-01-MIN-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029013 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 2.1 | | % | 1 | 05/03/2018 09:46 |

SAMPLE NO.

AT1-170830-01-MIN-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158029014 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| | Lipid | 2.5 | | % | 1 | 05/03/2018 09:46 |

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

| Analyte | Initial Calibration Blank | | Continuing Calibration Blank | | | | | | Method Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | C | | C | | C | | C | 1681739 | C |
| Lipid | | | | | | | | | <0.030 | U |

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

| Analyte | Initial Calibration Blank | | Continuing Calibration Blank | | | | | | Method Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | C | | C | | C | | C | 1682357 | C |
| Lipid | | | | | | | | | <0.030 | U |

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

| Analyte | Initial Calibration Blank | | Continuing Calibration Blank | | | | | | Method Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | C | | C | | C | | C | 1682697 | C |
| Lipid | | | | | | | | | 0.050 | |

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

| Analyte | Initial Calibration Blank | | Continuing Calibration Blank | | | | | | Method Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | C | | C | | C | | C | 1683598 | C |
| Lipid | | | | | | | | | <0.030 | U |

SAMPLE NO.

1681741DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 3.7 | 3.7 | 1 |

SAMPLE NO.

1681743DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 2.7 | 2.8 | 6 |

SAMPLE NO.

1681744DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 2.9 | 2.6 | 9 |

SAMPLE NO.

1681745DUP

FORM VI INORGANIC-4
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 3.5 | 3.7 | 4 |

SAMPLE NO.

1682360DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 4.7 | 4.7 | 1 |

SAMPLE NO.

1682361DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 1.7 | 1.5 | 11 |

SAMPLE NO.

1682699DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 3.7 | 3.7 | 0 |

SAMPLE NO.

1682701DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 5.6 | 5.5 | 2 |

SAMPLE NO.

1683600DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 5.1 | 5.2 | 2 |

SAMPLE NO.

1683602DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 4.7 | 4.6 | 2 |

SAMPLE NO.

1683603DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158029 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

| Analyte | Control Limit | Sample | Duplicate | RPD |
|---|---|---|---|---|
| Lipid | 40 | 2.8 | 2.7 | 2 |

# Prep Log Report

**Batch Information: OEXT 287437 LIPIDS** **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis Method | Pace Lipid | Analyzed By | ETB | Instrument | 40BALL | Batch Notes | |
| Reviewed By | BLM | Reviewed By Date | 05/10/2018 14:40 | | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | BLANK | **1681739** | Y | 0.01000 | 04/30/2018 14:40:12 | | 10 | 5 | 1 | 0.9371 | 0.9373 | M | 1681428 |
| LIPID | BLANK | **1681740** | Y | 0.01000 | 04/30/2018 14:40:22 | | 10 | 5 | 1 | 0.9345 | 0.9347 | M | 1681429 |
| LIPID | RQS | **40157940015** | Y | 3.652 | 04/30/2018 14:40:33 | | 9.9936 | 5 | 1 | 0.9321 | 1.0051 | M | |
| LIPID | DUP | **1681741** | Y | 3.691 | 04/30/2018 14:40:48 | | 9.9851 | 5 | 1 | 0.9318 | 1.0055 | M | 1681911 |
| LIPID | PS | **40157948008** | Y | 3.121 | 04/30/2018 14:41:14 | | 10.0142 | 5 | 1 | 0.9354 | 0.9979 | M | |
| LIPID | PS | **40157948009** | Y | 4.607 | 04/30/2018 14:41:25 | | 10.0164 | 5 | 1 | 0.9347 | 1.027 | M | |
| LIPID | RQS | **40157948011** | Y | 2.652 | 04/30/2018 14:41:37 | | 10.0294 | 5 | 1 | 0.9372 | 0.9904 | M | |
| LIPID | DUP | **1681743** | Y | 2.816 | 04/30/2018 14:41:50 | | 10.0332 | 5 | 1 | 0.9330 | 0.9895 | M | 1681432 |
| LIPID | PS | **40157948014** | Y | 2.497 | 04/30/2018 14:42:01 | | 10.0131 | 5 | 1 | 0.9370 | 0.987 | M | |
| LIPID | PS | **40158017001** | Y | 3.726 | 04/30/2018 14:42:10 | | 9.9702 | 5 | 1 | 0.9370 | 1.0113 | M | |
| LIPID | PS | **40158017002** | Y | 1.841 | 04/30/2018 14:42:31 | | 9.9957 | 5 | 1 | 0.9381 | 0.9749 | M | |
| LIPID | PS | **40158017016** | Y | 2.903 | 04/30/2018 14:42:40 | | 9.9898 | 5 | 1 | 0.9378 | 0.9958 | M | |
| LIPID | PS | **40158017017** | Y | 2.646 | 04/30/2018 14:42:51 | | 10.0147 | 5 | 1 | 0.9332 | 0.9862 | M | |
| LIPID | PS | **40158017018** | Y | 1.935 | 04/30/2018 14:43:04 | | 10.0284 | 5 | 1 | 0.9355 | 0.9743 | M | |
| LIPID | PS | **40158017019** | Y | 3.140 | 04/30/2018 14:43:20 | | 10.0003 | 5 | 1 | 0.9400 | 1.0028 | M | |
| LIPID | RQS | **40158017020** | Y | 2.909 | 04/30/2018 14:43:32 | | 10.002 | 5 | 1 | 0.9396 | 0.9978 | M | |
| LIPID | DUP | **1681744** | Y | 2.648 | 04/30/2018 14:43:43 | | 10.0261 | 5 | 1 | 0.9384 | 0.9915 | M | 1681433 |
| LIPID | PS | **40158029002** | Y | 4.392 | 04/30/2018 14:43:54 | | 9.985 | 5 | 1 | 0.9337 | 1.0214 | M | |
| LIPID | RQS | **40158029004** | Y | 3.531 | 04/30/2018 14:44:03 | | 10.0264 | 5 | 1 | 0.9369 | 1.0077 | M | |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | DUP | **1681745** | Y | 3.682 | 04/30/2018 14:44:11 | | 10.0092 | 5 | 1 | 0.9329 | 1.0066 | M | 1681434 |
| LIPID | MS | **1688378** | Y | 3.751 | 04/30/2018 14:44:11 | | 9.9846 | 5 | 1 | .9373 | 1.0122 | M | 1681430 |

# Prep Log Report

**Batch Information: OEXT 287559 LIPIDS**

**Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis Method | Pace Lipid | Analyzed By | ETB | Instrument | 40BALL | Batch Notes | |
| Reviewed By | BLM | Reviewed By Date | 05/11/2018 07:57 | | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | BLANK | **1682357** | Y | -0.01000 | 05/01/2018 14:21:10 | | 10 | 5 | 1 | 0.9342 | 0.934 | M | 1681906 |
| LIPID | BLANK | **1682358** | Y | 0.01500 | 05/01/2018 14:21:21 | | 10 | 5 | 1 | 0.9319 | 0.9322 | M | 1681907 |
| LIPID | PS | **40157948001** | Y | 2.102 | 05/01/2018 14:21:31 | | 9.9685 | 5 | 1 | 0.93 | 0.9719 | M | |
| LIPID | PS | **40157948002** | Y | 1.706 | 05/01/2018 14:21:41 | | 10.0255 | 5 | 1 | 0.9329 | 0.9671 | M | |
| LIPID | PS | **40157948007** | Y | 4.686 | 05/01/2018 14:21:50 | | 9.9868 | 5 | 1 | 0.9329 | 1.0265 | M | |
| LIPID | DUP | **1682360** | Y | 4.715 | 05/01/2018 14:22:14 | | 8.7067 | 5 | 1 | 0.9341 | 1.0162 | M | 1681909 |
| LIPID | PS | **40157948012** | Y | 4.545 | 05/01/2018 14:22:25 | | 10.0342 | 5 | 1 | 0.9364 | 1.0276 | M | |
| LIPID | PS | **40158013011** | Y | 4.557 | 05/01/2018 14:22:34 | | 10.0286 | 5 | 1 | 0.9355 | 1.0269 | M | |
| LIPID | PS | **40158013012** | Y | 4.287 | 05/01/2018 14:22:44 | | 9.9824 | 5 | 1 | 0.937 | 1.0226 | M | |
| LIPID | PS | **40158017003** | Y | 2.589 | 05/01/2018 14:22:54 | | 10.0244 | 5 | 1 | 0.9353 | 0.9872 | M | |
| LIPID | PS | **40158017004** | Y | 2.365 | 05/01/2018 14:23:05 | | 10.0023 | 5 | 1 | 0.9328 | 0.9801 | M | |
| LIPID | PS | **40158017005** | Y | 4.964 | 05/01/2018 14:23:16 | | 10.0013 | 5 | 1 | 0.9368 | 1.0361 | M | |
| LIPID | PS | **40158017006** | Y | 1.691 | 05/01/2018 14:23:25 | | 9.9932 | 5 | 1 | 0.9355 | 0.9693 | M | |
| LIPID | DUP | **1682361** | Y | 1.516 | 05/01/2018 14:23:37 | | 9.996 | 5 | 1 | 0.9357 | 0.966 | M | 1681910 |
| LIPID | PS | **40158017007** | Y | 4.456 | 05/01/2018 14:23:48 | | 10.0085 | 5 | 1 | 0.9353 | 1.0245 | M | |
| LIPID | PS | **40158017008** | Y | 4.557 | 05/01/2018 14:24:00 | | 10.0276 | 5 | 1 | 0.9356 | 1.027 | M | |
| LIPID | PS | **40158017009** | Y | 4.994 | 05/01/2018 14:24:10 | | 10.0324 | 5 | 1 | 0.9354 | 1.0356 | M | |
| LIPID | PS | **40158017010** | Y | 4.844 | 05/01/2018 14:24:22 | | 9.9712 | 5 | 1 | 0.9322 | 1.0288 | M | |
| LIPID | PS | **40158029001** | Y | 6.420 | 05/01/2018 14:24:34 | | 9.9914 | 5 | 1 | 0.9324 | 1.0607 | M | |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | PS | **40158029005** | Y | 1.986 | 05/01/2018 14:24:44 | | 9.9689 | 5 | 1 | 0.9343 | 0.9739 | M | |
| LIPID | MS | **1683590** | Y | 4.574 | 05/01/2018 14:24:44 | | 5.4335 | 5 | 1 | .9348 | 0.9845 | M | 1681908 |

# Prep Log Report

**Batch Information: OEXT 287607 LIPIDS** **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis Method | Pace Lipid | Analyzed By | ETB | Instrument | 40BALL | Batch Notes | |
| Reviewed By | CAH | Reviewed By Date | 05/16/2018 14:08 | | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | BLANK | **1682697** | Y | 0.05000 | 05/02/2018 10:13:52 | | 10 | 5 | 1 | 0.9301 | 0.9311 | M | 1682672 |
| LIPID | BLANK | **1682698** | Y | -0.01500 | 05/02/2018 10:14:02 | | 10 | 5 | 1 | 0.9349 | 0.9346 | M | 1682673 |
| LIPID | PS | **40157948003** | Y | 4.965 | 05/02/2018 10:14:13 | | 9.9892 | 5 | 1 | 0.9358 | 1.035 | M | |
| LIPID | PS | **40157948004** | Y | 5.636 | 05/02/2018 10:14:24 | | 9.9903 | 5 | 1 | 0.9286 | 1.0412 | M | |
| LIPID | PS | **40157948005** | Y | 4.976 | 05/02/2018 10:14:34 | | 10.0174 | 5 | 1 | 0.9384 | 1.0381 | M | |
| LIPID | PS | **40157948010** | Y | 3.734 | 05/02/2018 10:14:43 | | 3.0399 | 5 | 1 | 0.9315 | 0.9542 | M | |
| LIPID | DUP | **1682699** | Y | 3.740 | 05/02/2018 10:14:54 | | 3.1553 | 5 | 1 | 0.9351 | 0.9587 | M | 1682674 |
| LIPID | PS | **40157948013** | Y | 2.611 | 05/02/2018 10:15:05 | | 10.0361 | 5 | 1 | 0.9372 | 0.9896 | M | |
| LIPID | PS | **40158013006** | Y | 2.098 | 05/02/2018 10:15:15 | | 7.8655 | 5 | 1 | 0.9359 | 0.9689 | M | |
| LIPID | PS | **40158013007** | Y | 1.991 | 05/02/2018 10:15:24 | | 9.9717 | 5 | 1 | 0.9335 | 0.9732 | M | |
| LIPID | PS | **40158013008** | Y | 2.075 | 05/02/2018 10:15:35 | | 9.9779 | 5 | 1 | 0.9346 | 0.976 | M | |
| LIPID | PS | **40158013009** | Y | 2.454 | 05/02/2018 10:15:45 | | 9.9617 | 5 | 1 | 0.9339 | 0.9828 | M | |
| LIPID | PS | **40158029006** | Y | 3.248 | 05/02/2018 10:15:58 | | 10.007 | 5 | 1 | 0.9342 | 0.9992 | M | |
| LIPID | PS | **40158029007** | Y | 3.888 | 05/02/2018 10:16:10 | | 10.0174 | 5 | 1 | 0.9322 | 1.0101 | M | |
| LIPID | PS | **40158029008** | Y | 5.335 | 05/02/2018 10:16:19 | | 9.9635 | 5 | 1 | 0.9331 | 1.0394 | M | |
| LIPID | PS | **40158029009** | Y | 4.728 | 05/02/2018 10:16:30 | | 10.005 | 5 | 1 | 0.934 | 1.0286 | M | |
| LIPID | RQS | **40158029010** | Y | 5.559 | 05/02/2018 10:16:41 | | 7.2759 | 5 | 1 | 0.9382 | 1.0191 | M | |
| LIPID | MS | **1682700** | Y | 5.461 | 05/02/2018 10:16:50 | | 6.9581 | 5 | 1 | 0.9348 | 1.0108 | M | 1682675 |
| LIPID | DUP | **1682701** | Y | 5.466 | 05/02/2018 10:17:05 | | 6.4488 | 5 | 1 | 0.9344 | 1.0049 | M | 1682677 |

# Prep Log Report

40158029

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | PS | **40158029011** | Y | 4.085 | 05/02/2018 10:17:15 | | 9.9867 | 5 | 1 | 0.9303 | 1.0119 | M | |

# Prep Log Report

**Batch Information: OEXT 287776 LIPIDS** **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis Method | Pace Lipid | Analyzed By | ETB | Instrument | 40BALL | Batch Notes | |
| Reviewed By | CAH | Reviewed By Date | 05/18/2018 14:50 | | | | |

**Sample Information:**

| QC Rule | Sample Type | Lab Sample ID | Select | Lipid % Posted | Run Date/Time | ID | Sample Weight (g) | Sample Volume (mL) | Aliquot (mL) | Dish Weight (g) | Dry Weight 1 (g) | Dry Wt Use 1 | Sample Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIPID | BLANK | **1683598** | Y | -0.01000 | 05/03/2018 09:44:26 | | 10 | 5 | 1 | 0.934 | 0.9338 | M | 1683452 |
| LIPID | BLANK | **1683599** | Y | -0.02000 | 05/03/2018 09:44:35 | | 10 | 5 | 1 | 0.9366 | 0.9362 | M | 1683453 |
| LIPID | PS | **40157948006** | Y | 5.076 | 05/03/2018 09:44:48 | | 5.6341 | 5 | 1 | 0.9326 | 0.9898 | M | |
| LIPID | DUP | **1683600** | Y | 5.166 | 05/03/2018 09:44:59 | | 8.1489 | 5 | 1 | 0.9352 | 1.0194 | M | 1683454 |
| LIPID | PS | **40158017011** | Y | 4.669 | 05/03/2018 09:45:10 | | 10.0015 | 5 | 1 | 0.9332 | 1.0266 | M | |
| LIPID | MS | **1683601** | Y | 4.571 | 05/03/2018 09:45:19 | | 3.5445 | 5 | 1 | 0.9324 | 0.9648 | M | 1683455 |
| LIPID | DUP | **1683602** | Y | 4.599 | 05/03/2018 09:45:27 | | 4.3374 | 5 | 1 | 0.9323 | 0.9722 | M | 1683456 |
| LIPID | PS | **40158017012** | Y | 4.399 | 05/03/2018 09:45:33 | | 10.0365 | 5 | 1 | 0.9383 | 1.0266 | M | |
| LIPID | PS | **40158017013** | Y | 4.698 | 05/03/2018 09:45:41 | | 9.9933 | 5 | 1 | 0.9362 | 1.0301 | M | |
| LIPID | PS | **40158017014** | Y | 4.300 | 05/03/2018 09:45:50 | | 10.0237 | 5 | 1 | 0.9331 | 1.0193 | M | |
| LIPID | PS | **40158017015** | Y | 4.495 | 05/03/2018 09:45:57 | | 10.0001 | 5 | 1 | 0.9364 | 1.0263 | M | |
| LIPID | PS | **40158029003** | Y | 3.138 | 05/03/2018 09:46:03 | | 9.9914 | 5 | 1 | 0.9351 | 0.9978 | M | |
| LIPID | PS | **40158029012** | Y | 2.760 | 05/03/2018 09:46:10 | | 9.9826 | 5 | 1 | 0.9325 | 0.9876 | M | |
| LIPID | DUP | **1683603** | Y | 2.706 | 05/03/2018 09:46:16 | | 7.0222 | 5 | 1 | 0.9305 | 0.9685 | M | 1683457 |
| LIPID | PS | **40158029013** | Y | 2.074 | 05/03/2018 09:46:23 | | 10.0044 | 5 | 1 | 0.9284 | 0.9699 | M | |
| LIPID | PS | **40158029014** | Y | 2.545 | 05/03/2018 09:46:30 | | 10.0008 | 5 | 1 | 0.9296 | 0.9805 | M | |

40158029

Client Name: GE
Project #: 40158029
Sample Type: Fish
Date/Time Removed to Thaw: 04-13-18
Date/Time Prepped: 04-13-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

## Biota Homogenization Log (NYDOH Method)

Logbook: 4413

| Sample ID | A) Scales Removed B) Skin Removed (Note A or B Below) | Whole Body/Fillet (WB/F) | Picture of Fish/Weight Taken? (Y/N) | Total Fish Weight (g) | Internal Organs Intact (Y/N) | Gender (Optional) M/F/U[1] | Fillet Weight (g) | Left/Both Fillet[2]? | Picture of Fillet/Weight Taken? (Y/N) | Container Code[3] | Number of Containers Used | Picture of Jars/Weight Taken? (Y/N) | Weight of homogenized Sample (g) | Processing Type (C/G/R/RM)[4] | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | N/A | WB | Y | 52.3 | Y | N/A | N/A | Left / Both | N/A | 4AG | 1 | Y | 49.5 | C | |
| 2 | | | | 179.3 | | | | Left / Both | | | 2 | Y | 172.5 | | |
| 3 | | | | 23.1 | | | | Left / Both | | | 1 | Y | 21.7 | | |
| 4 | | | | 128.7 | | | | Left / Both | | | 2 | Y | 122.4 | | |
| 5 | | | | 13.6 | | | | Left / Both | | | 1 | Y | 12.5 | | |
| 6 | | | | 22.5 | | | | Left / Both | | | 1 | Y | 21.2 | | |
| 7 | | | | 20.0 | | | | Left / Both | | | 1 | Y | 18.9 | | |
| 8 | | | | 21.1 | | | | Left / Both | | | 1 | Y | 20.4 | | |
| 9 | | | | 28.0 | | | | Left / Both | | | 1 | Y | 26.8 | | |
| 10 | | | | 23.7 | | | | Left / Both | | | 1 | Y | 21.9 | | |
| 11 | | | | 22.0 | | | | Left / Both | | | 1 | Y | 21.2 | | |
| 12 | | | | 20.2 | | | | Left / Both | | | 1 | Y | 18.6 | | |
| 13 | | | | 23.9 | | | | Left / Both | | | 1 | Y | 22.6 | | |
| 14 | X | X | X | 23.5 | X | X | X | Left / Both | X | X | 1 | Y | 21.7 | X | |
| | | | | | | | | Left / Both | | | | | | | |
| | | | | | | | | Left / Both | | | | | | | |
| | | | | | | CWN | 04-13-18 | ~~Left / Both~~ | | | | | | | |
| | | | | | | | | Left / Both | | | | | | | |
| | | | | | | | | Left / Both | | | | | | | |
| | | | | | | | | Left / Both | | | | | | | |

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(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(3) Note Container Type / Lot # using Codes Below:

| Container Code | Container Size | Lot# |
|---|---|---|
| 2CG | 2 oz Clear Glass | |
| 4AG | 4 oz Amber Glass | G7-243-01DB |
| 9AG | 9 oz Amber Glass | |
| 32AG | 32 oz Amber Glass | |

(4) Processing Type Code Descriptions:

| Code | Description of Code |
|---|---|
| C | Chopped |
| G | Grind |
| R | Robot coupe |
| RM | Robot coupe multiple batches |

Reviewed By

4/27/18
Date