Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157948

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

May 18, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 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.: 40157948

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.: 40157948

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157948001	**TD5-170828-01-FALLF-02**	Tissue	08/28/17 14:35	10/04/17 14:05
40157948002	**TD5-170828-01-FALLF-01**	Tissue	08/28/17 14:32	10/04/17 14:05
40157948003	**TD4-170828-01-SFSH-02**	Tissue	08/28/17 15:00	10/04/17 14:05
40157948004	**TD4-170828-01-SFSH-01**	Tissue	08/28/17 14:56	10/04/17 14:05
40157948005	**TD3-170828-01-SPSH-01**	Tissue	08/28/17 15:16	10/04/17 14:05
40157948006	**TD3-170828-01-BNMN-01**	Tissue	08/28/17 15:19	10/04/17 14:05
40157948007	**TD2-170828-01-SPSH-01**	Tissue	08/28/17 12:27	10/04/17 14:05
40157948008	**TD2-170828-01-GOSH-01**	Tissue	08/28/17 12:30	10/04/17 14:05
40157948009	**TD1-170828-01-GOSH-02**	Tissue	08/28/17 12:08	10/04/17 14:05
40157948010	**ND2-170828-01-PKSD-01**	Tissue	08/28/17 17:47	10/04/17 14:05
40157948011	**ND2-170828-01-GOSH-01**	Tissue	08/28/17 17:53	10/04/17 14:05
40157948012	**ND1-170828-01-SPSH-01**	Tissue	08/28/17 17:45	10/04/17 14:05
40157948013	**ND1-170828-01-PKSD-04**	Tissue	08/28/17 17:38	10/04/17 14:05
40157948014	**ND1-170828-01-GOSH-01**	Tissue	08/28/17 17:42	10/04/17 14:05

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157948001	TD5-170828-01-FALLF-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948002	TD5-170828-01-FALLF-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948003	TD4-170828-01-SFSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948004	TD4-170828-01-SFSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948005	TD3-170828-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948006	TD3-170828-01-BNMN-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948007	TD2-170828-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948008	TD2-170828-01-GOSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948009	TD1-170828-01-GOSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948010	ND2-170828-01-PKSD-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948011	ND2-170828-01-GOSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948012	ND1-170828-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948013	ND1-170828-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40157948014	ND1-170828-01-GOSH-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.: 40157948

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 18, 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)
- ND1-170828-01-SPSH-01 (Lab ID: 40157948012)
  - 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.: 40157948

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 18, 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: 287596

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

- ND1-170828-01-PKSD-04 (Lab ID: 40157948013)
  - PCB-1016 (Aroclor 1016)
- TD3-170828-01-SPSH-01 (Lab ID: 40157948005)
  - PCB-1016 (Aroclor 1016)

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.: 40157948

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 18, 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.: 40157948

Sample: TD5-170828-01-FALLF-02 **Lab ID: 40157948001** Collected: 08/28/17 14:35 Received: 10/04/17 14:05 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)	**<57.2**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.2**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.2**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.2**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**853**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**526**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**123J**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	11096-82-5	
PCB, Total	**1500**	ug/kg	251	57.2	5	05/01/18 07:23	05/07/18 21:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		5	05/01/18 07:23	05/07/18 21:46	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		5	05/01/18 07:23	05/07/18 21:46	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%	0.030	0.030	1		05/01/18 14:21		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD5-170828-01-FALLF-01 **Lab ID: 40157948002** Collected: 08/28/17 14:32 Received: 10/04/17 14:05 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)	**<34.1**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**699**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**461**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**103J**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	11096-82-5	
PCB, Total	**1260**	ug/kg	150	34.1	3	05/01/18 07:23	05/07/18 22:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		3	05/01/18 07:23	05/07/18 22:02	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		3	05/01/18 07:23	05/07/18 22:02	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%	0.030	0.030	1		05/01/18 14:21		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD4-170828-01-SFSH-02 **Lab ID: 40157948003** Collected: 08/28/17 15:00 Received: 10/04/17 14:05 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)	**<45.6**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**731**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**474**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**122J**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	11096-82-5	
PCB, Total	**1330**	ug/kg	200	45.6	4	05/02/18 09:20	05/08/18 04:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		4	05/02/18 09:20	05/08/18 04:22	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		4	05/02/18 09:20	05/08/18 04:22	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%	0.030	0.030	1		05/02/18 10:14		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD4-170828-01-SFSH-01 **Lab ID: 40157948004** Collected: 08/28/17 14:56 Received: 10/04/17 14:05 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 04:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**612**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**331**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.3J**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	11096-82-5	
PCB, Total	**1030**	ug/kg	100	22.8	2	05/02/18 09:20	05/08/18 04:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	101	%	60-140		2	05/02/18 09:20	05/08/18 04:38	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		2	05/02/18 09:20	05/08/18 04:38	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.6**	%	0.030	0.030	1		05/02/18 10:14		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD3-170828-01-SPSH-01 **Lab ID: 40157948005** Collected: 08/28/17 15:16 Received: 10/04/17 14:05 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)	**<68.3**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<68.3**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.3**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.3**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**2000**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**1130**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**174J**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	11096-82-5	
PCB, Total	**3300**	ug/kg	299	68.3	6	05/02/18 09:20	05/10/18 08:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		6	05/02/18 09:20	05/10/18 08:42	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		6	05/02/18 09:20	05/10/18 08:42	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%	0.030	0.030	1		05/02/18 10:14		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD3-170828-01-BNMN-01 **Lab ID: 40157948006** Collected: 08/28/17 15:19 Received: 10/04/17 14:05 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)	**<101**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<101**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<101**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<101**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**2540**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**1490**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**216J**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	11096-82-5	
PCB, Total	**4250**	ug/kg	444	101	5	05/04/18 07:32	05/08/18 15:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		5	05/04/18 07:32	05/08/18 15:39	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		5	05/04/18 07:32	05/08/18 15:39	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.1**	%	0.030	0.030	1		05/03/18 09:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD2-170828-01-SPSH-01 **Lab ID: 40157948007** Collected: 08/28/17 12:27 Received: 10/04/17 14:05 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)	**<57.1**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**1190**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**685**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**120J**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	11096-82-5	
PCB, Total	**2000**	ug/kg	250	57.1	5	05/01/18 07:23	05/07/18 22:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		5	05/01/18 07:23	05/07/18 22:18	877-09-8	
Decachlorobiphenyl (S)	106	%	60-140		5	05/01/18 07:23	05/07/18 22:18	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.7**	%	0.030	0.030	1		05/01/18 14:21		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD2-170828-01-GOSH-01 **Lab ID: 40157948008** Collected: 08/28/17 12:30 Received: 10/04/17 14:05 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	04/30/18 10:28	05/07/18 15:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**353**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**211**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**46.5J**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	11096-82-5	
PCB, Total	**611**	ug/kg	99.9	22.8	2	04/30/18 10:28	05/07/18 15:57	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		2	04/30/18 10:28	05/07/18 15:57	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		2	04/30/18 10:28	05/07/18 15:57	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.1**	%	0.030	0.030	1		04/30/18 14:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: TD1-170828-01-GOSH-02 **Lab ID: 40157948009** Collected: 08/28/17 12:08 Received: 10/04/17 14:05 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	04/30/18 10:28	05/07/18 16:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**110**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**532**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**299**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**69.9J**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	11096-82-5	
PCB, Total	**1010**	ug/kg	99.8	22.8	2	04/30/18 10:28	05/07/18 16:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		2	04/30/18 10:28	05/07/18 16:13	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		2	04/30/18 10:28	05/07/18 16:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.6**	%	0.030	0.030	1		04/30/18 14:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: ND2-170828-01-PKSD-01 **Lab ID: 40157948010** Collected: 08/28/17 17:47 Received: 10/04/17 14:05 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)	**<188**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<188**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<188**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<188**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**3860**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**1980**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**257J**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	11096-82-5	
PCB, Total	**6090**	ug/kg	822	188	5	05/02/18 09:20	05/08/18 05:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		5	05/02/18 09:20	05/08/18 05:10	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		5	05/02/18 09:20	05/08/18 05:10	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.7**	%	0.030	0.030	1		05/02/18 10:14		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: ND2-170828-01-GOSH-01 **Lab ID: 40157948011** Collected: 08/28/17 17:53 Received: 10/04/17 14:05 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)	**<114**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**614**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**1830**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**785**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**187J**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	11096-82-5	
PCB, Total	**3420**	ug/kg	499	114	10	04/30/18 10:28	05/07/18 16:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		10	04/30/18 10:28	05/07/18 16:29	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		10	04/30/18 10:28	05/07/18 16:29	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/30/18 14:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: ND1-170828-01-SPSH-01 **Lab ID: 40157948012** Collected: 08/28/17 17:45 Received: 10/04/17 14:05 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)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**3700**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**1990**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**404J**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	11096-82-5	
PCB, Total	**6100**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/07/18 23:05	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/07/18 23:05	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.5**	%	0.030	0.030	1		05/01/18 14:22		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Sample: ND1-170828-01-PKSD-04 **Lab ID: 40157948013** Collected: 08/28/17 17:38 Received: 10/04/17 14:05 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)	**<68.2**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**212J**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.2**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.2**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**1650**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**926**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**131J**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	11096-82-5	
PCB, Total	**2920**	ug/kg	299	68.2	6	05/02/18 09:20	05/10/18 08:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		6	05/02/18 09:20	05/10/18 08:58	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		6	05/02/18 09:20	05/10/18 08:58	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	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.: 40157948

Sample: ND1-170828-01-GOSH-01 **Lab ID: 40157948014** Collected: 08/28/17 17:42 Received: 10/04/17 14:05 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)	**<56.9**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**325**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**1250**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**551**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**132J**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	11096-82-5	
PCB, Total	**2260**	ug/kg	250	56.9	5	04/30/18 10:28	05/07/18 17:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		5	04/30/18 10:28	05/07/18 17:01	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		5	04/30/18 10:28	05/07/18 17:01	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/30/18 14:42		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

QC Batch: 287324 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157948008, 40157948009, 40157948011, 40157948014

METHOD BLANK: 1681428 | Matrix: Tissue
Associated Lab Samples: 40157948008, 40157948009, 40157948011, 40157948014

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.: 40157948

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.: 40157948

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.: 40157948

QC Batch: 287454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157948001, 40157948002, 40157948007, 40157948012

METHOD BLANK: 1681906 | Matrix: Tissue
Associated Lab Samples: 40157948001, 40157948002, 40157948007, 40157948012

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.: 40157948

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.: 40157948

QC Batch: 287596 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157948003, 40157948004, 40157948005, 40157948010, 40157948013

METHOD BLANK: 1682672 | Matrix: Tissue
Associated Lab Samples: 40157948003, 40157948004, 40157948005, 40157948010, 40157948013

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.: 40157948

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.: 40157948

QC Batch: 287737 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157948006

METHOD BLANK: 1683452 | Matrix: Tissue
Associated Lab Samples: 40157948006

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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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

QC Batch: 287437 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157948008, 40157948009, 40157948011, 40157948014

METHOD BLANK: 1681739 Matrix: Tissue
Associated Lab Samples: 40157948008, 40157948009, 40157948011, 40157948014

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.: 40157948

QC Batch: 287559 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157948001, 40157948002, 40157948007, 40157948012

METHOD BLANK: 1682357 Matrix: Tissue
Associated Lab Samples: 40157948001, 40157948002, 40157948007, 40157948012

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.: 40157948

QC Batch: 287607 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157948003, 40157948004, 40157948005, 40157948010, 40157948013

METHOD BLANK: 1682697 Matrix: Tissue
Associated Lab Samples: 40157948003, 40157948004, 40157948005, 40157948010, 40157948013

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.: 40157948

QC Batch: 287776 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157948006

METHOD BLANK: 1683598 | Matrix: Tissue
Associated Lab Samples: 40157948006

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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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157948001	**TD5-170828-01-FALLF-02**	EPA 3541	287454	EPA 8082A Mod	287632
40157948002	**TD5-170828-01-FALLF-01**	EPA 3541	287454	EPA 8082A Mod	287632
40157948003	**TD4-170828-01-SFSH-02**	EPA 3541	287596	EPA 8082A Mod	287775
40157948004	**TD4-170828-01-SFSH-01**	EPA 3541	287596	EPA 8082A Mod	287775
40157948005	**TD3-170828-01-SPSH-01**	EPA 3541	287596	EPA 8082A Mod	287775
40157948006	**TD3-170828-01-BNMN-01**	EPA 3541	287737	EPA 8082A Mod	287881
40157948007	**TD2-170828-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40157948008	**TD2-170828-01-GOSH-01**	EPA 3541	287324	EPA 8082A Mod	287513
40157948009	**TD1-170828-01-GOSH-02**	EPA 3541	287324	EPA 8082A Mod	287513
40157948010	**ND2-170828-01-PKSD-01**	EPA 3541	287596	EPA 8082A Mod	287775
40157948011	**ND2-170828-01-GOSH-01**	EPA 3541	287324	EPA 8082A Mod	287513
40157948012	**ND1-170828-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40157948013	**ND1-170828-01-PKSD-04**	EPA 3541	287596	EPA 8082A Mod	287775
40157948014	**ND1-170828-01-GOSH-01**	EPA 3541	287324	EPA 8082A Mod	287513
40157948001	**TD5-170828-01-FALLF-02**	Pace Lipid	287559		
40157948002	**TD5-170828-01-FALLF-01**	Pace Lipid	287559		
40157948003	**TD4-170828-01-SFSH-02**	Pace Lipid	287607		
40157948004	**TD4-170828-01-SFSH-01**	Pace Lipid	287607		
40157948005	**TD3-170828-01-SPSH-01**	Pace Lipid	287607		
40157948006	**TD3-170828-01-BNMN-01**	Pace Lipid	287776		
40157948007	**TD2-170828-01-SPSH-01**	Pace Lipid	287559		
40157948008	**TD2-170828-01-GOSH-01**	Pace Lipid	287437		
40157948009	**TD1-170828-01-GOSH-02**	Pace Lipid	287437		
40157948010	**ND2-170828-01-PKSD-01**	Pace Lipid	287607		
40157948011	**ND2-170828-01-GOSH-01**	Pace Lipid	287437		
40157948012	**ND1-170828-01-SPSH-01**	Pace Lipid	287559		
40157948013	**ND1-170828-01-PKSD-04**	Pace Lipid	287607		
40157948014	**ND1-170828-01-GOSH-01**	Pace Lipid	287437		

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40157948

SSR

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170828-T11-03
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

OK 10-4-17 SW

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	TD5-170828-01	TD5-170828-01-FALLF-02	8/28/2017	14:35	☐	1	F	WH	☑	☐	☐	☑	☑	☐	1-ziploc A
002	TD5-170828-01	TD5-170828-01-FALLF-01	8/28/2017	14:32	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
003	TD4-170828-01	TD4-170828-01-SFSH-02	8/28/2017	15:00	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
004	TD4-170828-01	TD4-170828-01-SFSH-01	8/28/2017	14:56	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
005	TD3-170828-01	TD3-170828-01-SPSH-01	8/28/2017	15:16	☐	1	F	WH	☑	☐	☐	☑	☑	☐	1-ziploc A
006	TD3-170828-01	TD3-170828-01-BNMN-01	8/28/2017	15:19	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
007	TD2-170828-01	TD2-170828-01-SPSH-01	8/28/2017	12:27	☐	1	F	WH	☑	☐	☐	☑	☑	☐	2-ziploc A 10-4-17 SW
008	TD2-170828-01	TD2-170828-01-GOSH-01	8/28/2017	12:30	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
009	TD1-170828-01	TD1-170828-01-GOSH-02	8/28/2017	12:08	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
010	ND2-170828-01	ND2-170828-01-PKSD-01	8/28/2017	17:47	☐	1	F	WH	☐	☐	☐	☑	☑	☐	

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 FED EX	Signature Fed Ex
Print Name Jim Ryan	Print Name D. Bubniak	Print Name D. Bubniak	Print Name A. Dittle	Print Name A. Dittle	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE T: 7.6°C	Company PACE	Company
Date/Time 8/29/17	Date/Time 8/29/17 1030	Date/Time 8/29/17 1115	Date/Time 8/29/17 11:15	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405

Susan Kylie
Susan Kylie
Pace
10/4/17 1405

Date Printed: 8/28/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170828-T11-03
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

OK 10-4-17 SKW

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	ND2-170828-01	ND2-170828-01-GOSH-01	8/28/2017	17:53	☑	1	F	WH	☑	☐	☐	☑	☑	☐	1-ziploc A
012	ND1-170828-01	ND1-170828-01-SPSH-01	8/28/2017	17:45	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
013	ND1-170828-01	ND1-170828-01-PKSD-04	8/28/2017	17:38	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
014	ND1-170828-01	ND1-170828-01-GOSH-01	8/28/2017	17:42	☐	1	F	WH	☑	☐	☐	☑	☑	☐	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature JIM RYAN/BY Mark LaRue	Signature [illegible]	Signature [illegible]	Signature [illegible]	Signature [illegible] VIA FED EX	Signature Fed Ex
Print Name MARK LaRUE	Print Name D. Bubniak	Print Name D. Bubniak	Print Name A. BITTAG	Print Name A. BITTAG	Print Name
Company ANCHOR QEA	Company PACE	Company PACE	Company PACE T: 7.6°C	Company PACE	Company
Date/Time 8/29/17	Date/Time 8/29/17 1030	Date/Time 8/29/17 1115	Date/Time 8/29/17 11:15	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405

Date Printed: 8/28/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 2 of 2**

40157948

Angela Lane - Fwd: RE: Re: GE AQEA FISH SHIPPED 10/3/17 FOR RECEIPT 10/4/17

From: Tod Noltemeyer
To: Lane, Angela; WI Sample Receiving
Date: 10/5/2017 9:04 AM
Subject: Fwd: RE: Re: GE AQEA FISH SHIPPED 10/3/17 FOR RECEIPT 10/4/17

Those two fish with the same ID can be differentiated as noted below.

Tod

>>> Jim Ryan <jryan@anchorqea.com> 10/5/2017 8:52 AM >>>
I checked our field database and the TD2 sample should have 4 fish in the composite. The TD3 sample should have 9 fish. Let me know if that's not correct.

Thanks,
Jim

From: custody [custody@pacelabs.com]
Sent: Thursday, October 5, 2017 9:38 AM
To: Jim Ryan <jryan@anchorqea.com>
Cc: Tod Noltemeyer <tod.noltemeyer@pacelabs.com>
Subject: Fwd: Re: GE AQEA FISH SHIPPED 10/3/17 FOR RECEIPT 10/4/17

Hi Jim!

Are you able to help Tod n Green Bay out with this question? I suspect you keep sample details in your system somewhere...

Thanks!

Andrea

>>> Tod Noltemeyer 10/5/2017 9:20 AM >>>
We received the fish yesterday. On the attached COC we have two fish with the labels being TD2 170828-01-SPH01 and same time collected, but we are missing TD3..... Is there a way we can differentiate which is which, maybe by weight?

Tod

Tod Noltemeyer
Project Manager
Pace Analytical Services
1241 Bellevue St.
Green Bay, WI 54302
608-232-3300
www.pacelabs.com

40157948

>>> custody 10/3/2017 2:55 PM >>>
Two coolers headed your way for tomorrow!

FedEx:

4099 9470 4755
4099 9470 4766

Chains are attached-

Thank you!

Andrea

Pace Analytical

Sample Condition Upon Receipt

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

Project #: **WO# : 40157948**

40157948

Client Name: GE

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

Tracking #: 4099947047 5; 4099947047 6

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 SR68 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.1 /Corr: 0.1 **Biological Tissue is Frozen:** ☑ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 10-4-17
Initials: [illegible]

		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. No Volume for TD3 17082801 SPSH 01 – Recieved 2 for TD2 1708328 01 SPSH 01. 10-4-17 SL
-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: Per email directions samples placed. 10-5-17 SL

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): 40157948
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 1°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 TD2-170828-01-SPSH-01 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 1:5 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 the parent result on the final report.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 287324, 287596 and 287737, and one portion of each parent sample was fortified with Aroclor 1242. 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 1682675 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 MS 1682675 on the final report.

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

F. Sample Duplicate: Samples TD3-170828-01-BNMN-01, TD2-170828-01-SPSH-01, ND2-170828-01-PKSD-01, and ND1-170828-01-GOSH-01 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 calibration range of the instrument.

H. **Reanalysis:** Samples TD3-170828-01-SPSH-01, ND1-170828-01-PKSD-04, and DUP 1683454 were initially analyzed diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a greater dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the "1q" data qualifier on the final report to note the occurrence.

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: 05/21/18

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.: 40157948 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1681428	1681428BLANK	80	70
1681429	1681429LCS	86	77
1681432	1681432DUP	102	96
40157948008	TD2-170828-01-GOSH-01	85	86
40157948009	TD1-170828-01-GOSH-02	89	96
40157948011	ND2-170828-01-GOSH-01	103	97
40157948014	ND1-170828-01-GOSH-01	95	93

	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.: 40157948 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1681906	1681906BLANK	90	77
1681907	1681907LCS	92	80
1681908	1681908MS	98	88
1681909	1681909DUP	103	99
40157948001	TD5-170828-01-FALLF-02	98	92
40157948002	TD5-170828-01-FALLF-01	95	95
40157948007	TD2-170828-01-SPSH-01	106	103
40157948012	ND1-170828-01-SPSH-01	0*	0*

	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.: 40157948 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1682672	1682672BLANK	76	66
1682673	1682673LCS	87	76
1682674	1682674DUP	96	93
40157948003	TD4-170828-01-SFSH-02	101	100
40157948004	TD4-170828-01-SFSH-01	94	101
40157948005	TD3-170828-01-SPSH-01	105	100
40157948010	ND2-170828-01-PKSD-01	87	81
40157948013	ND1-170828-01-PKSD-04	98	95

	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.: 40157948 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1683452	1683452BLANK	85	77
1683453	1683453LCS	96	90
1683454	1683454DUP	94	88
40157948006	TD3-170828-01-BNMN-01	94	90

	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.: 40157948

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.

05/18/2018 3:10

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.: 40157948

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.

05/18/2018 3:10

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.: 40157948

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.

05/18/2018 3:10

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.: 40157948

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.: 40157948

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: TD2-170828-01-SPSH-01

Matrix Spike - Sample No: 1681908MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718036.D

SDG No.: 40157948

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: 40158029010

Matrix Spike - Sample No: 1682675MS

Date Analyzed (1): 05/08/2018

Lab File ID: 050718.B\050718075.D

SDG No.: 40157948

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.: 40157948

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.: 40157948

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: 40158017020

Duplicate Sample No: 40158017020DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718025.D

SDG No.: 40157948

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-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40158029004

Duplicate Sample No: 40158029004DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718030.D

SDG No.: 40157948

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-4

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: ND2-170828-01-GOSH-01

Duplicate Sample No: 40157948011DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718014.D

SDG No.: 40157948

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-1

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.: 40157948

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-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: TD2-170828-01-SPSH-01

Duplicate Sample No: 40157948007DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718037.D

SDG No.: 40157948

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-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: 40158029010

Duplicate Sample No: 40158029010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718078.D

SDG No.: 40157948

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-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: ND2-170828-01-PKSD-01

Duplicate Sample No: 40157948010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718062.D

SDG No.: 40157948

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-1

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.: 40157948

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-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: 40158029012

Duplicate Sample No: 40158029012DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718095.D

SDG No.: 40157948

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.

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: TD3-170828-01-BNMN-01

Duplicate Sample No: 40157948006DUP

Date Analyzed: 05/10/2018

Lab File ID: 051018.B\051018008.D

SDG No.: 40157948

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.

SAMPLE NO.

1681428BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157948 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
TD2-170828-01-GOSH-01	40157948008	050718.B\050718011.D	05/07/2018 15:57
TD1-170828-01-GOSH-02	40157948009	050718.B\050718012.D	05/07/2018 16:13
ND2-170828-01-GOSH-01	40157948011	050718.B\050718013.D	05/07/2018 16:29
1681432DUP	1681432	050718.B\050718014.D	05/07/2018 16:45
ND1-170828-01-GOSH-01	40157948014	050718.B\050718015.D	05/07/2018 17:01
1681433DUP	1681433	050718.B\050718025.D	05/07/2018 19:39
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.: 40157948 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
TD5-170828-01-FALLF-02	40157948001	050718.B\050718033.D	05/07/2018 21:46
TD5-170828-01-FALLF-01	40157948002	050718.B\050718034.D	05/07/2018 22:02
TD2-170828-01-SPSH-01	40157948007	050718.B\050718035.D	05/07/2018 22:18
1681908MS	1681908	050718.B\050718036.D	05/07/2018 22:33
1681909DUP	1681909	050718.B\050718037.D	05/07/2018 22:49
ND1-170828-01-SPSH-01	40157948012	050718.B\050718038.D	05/07/2018 23:05
1681910DUP	1681910	050718.B\050718047.D	05/08/2018 01:28

SAMPLE NO.

1682672BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157948 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
TD4-170828-01-SFSH-02	40157948003	050718.B\050718058.D	05/08/2018 04:22
TD4-170828-01-SFSH-01	40157948004	050718.B\050718059.D	05/08/2018 04:38
ND2-170828-01-PKSD-01	40157948010	050718.B\050718061.D	05/08/2018 05:10
1682674DUP	1682674	050718.B\050718062.D	05/08/2018 05:25
1682677DUP	1682677	050718.B\050718078.D	05/08/2018 14:35
TD3-170828-01-SPSH-01	40157948005	051018.B\051018006.D	05/10/2018 08:42
ND1-170828-01-PKSD-04	40157948013	051018.B\051018007.D	05/10/2018 08:58

SAMPLE NO.

1683452BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157948 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
TD3-170828-01-BNMN-01	40157948006	050718.B\050718082.D	05/08/2018 15:39
1683456DUP	1683456	050718.B\050718086.D	05/08/2018 16:42
1683457DUP	1683457	050718.B\050718095.D	05/08/2018 19:06
1683454DUP	1683454	051018.B\051018008.D	05/10/2018 09:14

SAMPLE NO.

TD5-170828-01-FALLF-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40157948001
Date Analyzed: 05/07/2018 21:46
Lab File ID: 050718.B\050718033.D
Initial wt/vol: 9.9685 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)	<57.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	853	
11097-69-1	PCB-1254 (Aroclor 1254)	526	
11096-82-5	PCB-1260 (Aroclor 1260)	123	J
1336-36-3	PCB, Total	1500	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718033.D
Lab Smp Id: 40157948001 Client Smp ID: TD5-170828-01-FALLF
Inj Date : 07-MAY-2018 21:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948001 x5,
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: 33
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	9.969	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.728	10118	8637	0.854	0.02		
2.475	67860	55405	0.816	0.18		
2.549	2218044	2246519	1.013	5.90	$ 2 Tetrachloro-m-xylene	
2.859	16340	11780	0.721	0.04		
2.922	21584	20594	0.954	0.05		
3.064	14627	14026	0.959	0.03		
3.093	25365	27052	1.067	0.06		
3.130	117668	113830	0.967	0.31		
3.396	58427	58425	1.000	0.15		
3.423	58537	53774	0.919	0.15		
3.512	141592	138693	0.980	0.37		
3.600	130544	119050	0.912	0.34		
3.724	22872	20099	0.879	0.06		
3.811	111936	108321	0.968	0.29		
3.838	68443	57504	0.840	0.18		
3.909	685139	399240	0.583	1.82		
4.020	143897	112031	0.779	0.38		
4.077	122942	106552	0.867	0.32		
4.142	83572	75111	0.899	0.22		
4.215	14636	10228	0.699	0.03		
4.298	1025488	959886	0.936	2.73		
4.344	1049079	983617	0.938	2.79	6 Aroclor 1248	BA
4.375	1170561	968568	0.827	3.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.428	21567	17788	0.825	0.05	
4.502	511446	481838	0.942	1.36	
4.537	428125	371355	0.867	1.13	
4.631	821742	768991	0.936	2.18	6 Aroclor 1248
4.672	76535	69374	0.906	0.20	
4.702	110666	96918	0.876	0.29	
4.764	74976	68292	0.911	0.19	
4.818	103475	69447	0.671	0.27	
4.852	212744	198518	0.933	0.56	
4.898	921299	890379	0.966	2.45	6 Aroclor 1248
4.932	717975	680571	0.948	1.91	
4.964	2088982	1372239	0.657	5.56	6 Aroclor 1248
5.042	305277	255704	0.838	0.81	
5.123	882654	802809	0.910	2.35	6 Aroclor 1248
5.186	586546	537062	0.916	1.56	
5.246	1258697	1109016	0.881	3.35	7 Aroclor 1254
5.297	1110853	1008128	0.908	2.95	
5.369	99905	96631	0.967	0.26	
5.393	203293	157949	0.777	0.54	
5.448	410753	378908	0.922	1.09	
5.492	859260	761940	0.887	2.28	7 Aroclor 1254
5.533	826704	721078	0.872	2.20	
5.572	71035	88026	1.239	0.18	
5.596	1441635	1297954	0.900	3.83	7 Aroclor 1254
5.663	55941	45988	0.822	0.14	
5.691	215081	188098	0.875	0.57	
5.761	274342	252669	0.921	0.73	
5.798	202443	163334	0.807	0.53	
5.826	339413	232581	0.685	0.90	
5.877	2233656	1797452	0.805	5.94	
5.974	209502	154279	0.736	0.55	
6.016	130587	106533	0.816	0.34	
6.078	322074	301714	0.937	0.85	
6.111	1176448	1084390	0.922	3.13	7 Aroclor 1254
6.140	1345446	1143553	0.850	3.58	
6.255	268687	206131	0.767	0.71	
6.313	123587	127468	1.031	0.32	
6.329	157318	136805	0.870	0.41	
6.387	1836413	1536894	0.837	4.88	7 Aroclor 1254
6.421	199170	181901	0.913	0.53	
6.460	92852	77169	0.831	0.24	
6.519	146424	112773	0.770	0.38	
6.596	386385	359570	0.931	1.02	
6.623	375637	338033	0.900	1.00	
6.646	122429	115611	0.944	0.32	
6.690	79847	71541	0.896	0.21	
6.750	31098	26007	0.836	0.08	
6.805	136721	120649	0.882	0.36	
6.844	148939	134317	0.902	0.39	
6.888	283688	254793	0.898	0.75	
6.927	109696	81431	0.742	0.29	
7.002	20616	17018	0.825	0.05	
7.029	192561	170133	0.884	0.51	
7.090	507208	462940	0.913	1.35	8 Aroclor 1260
7.122	58270	47883	0.822	0.15	
7.205	50791	22029	0.434	0.13	
7.337	277329	248610	0.896	0.73	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.367	115293	83855	0.727	0.30	
7.421	49814	26439	0.531	0.13	
7.476	144559	130551	0.903	0.38	
7.528	202773	153087	0.755	0.53	8 Aroclor 1260
7.634	25590	18934	0.740	0.06	
7.665	11817	11117	0.941	0.03	
7.704	22399	13027	0.582	0.05	
7.743	14320	16208	1.132	0.03	
7.778	55163	50476	0.915	0.14	
7.814	41663	32722	0.785	0.11	
7.835	33927	22906	0.675	0.09	
7.881	8907	16532	1.856	0.02	
7.899	40651	29315	0.721	0.10	
7.986	140079	131185	0.937	0.37	8 Aroclor 1260
8.048	18368	14327	0.780	0.04	
8.134	16071	14137	0.880	0.04	
8.360	104776	89953	0.859	0.27	
8.438	43052	28613	0.665	0.11	
8.657	2607477	2278373	0.874	7.47	$ 12 Decachlorobiphenyl
9.000	87658	55896	0.638	0.23	
9.252	9729	10764	1.106	0.02	
9.525	126839	75529	0.595	0.33	
	37556939	32594100		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718033.D
Lab Smp Id: 40157948001 Client Smp ID: TD5-170828-01-FALLF
Inj Date : 07-MAY-2018 21:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948001 x5,
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: 33
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	9.969	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.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2218044	0.01842	46			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

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			
4.343	4.343	0.000	1049079	0.43980	1100	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	821742	0.19347	480	0.00- 20.00	78.33	BA
4.897	4.898	-0.001	921299	0.45227	1100	0.00- 20.00	87.82	BA
4.963	4.963	0.000	2088982	0.38138	960	0.00- 20.00	199.13	BA
5.122	5.123	-0.001	882653	0.23330	580	0.00- 20.00	84.14	BA
Average of Peak Concentrations =					850			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	1258697	0.22319	560	0.00- 20.00	100.00(M)	CO
5.492	5.492	0.000	859259	0.18424	460	0.00- 20.00	68.27	CO
5.595	5.596	-0.001	1441635	0.16838	420	0.00- 20.00	114.53	CO
6.110	6.113	-0.003	1176447	0.22143	560	0.00- 20.00	93.47	CO
6.386	6.387	-0.001	1836412	0.25084	630	0.00- 20.00	145.90	CO
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
7.089	7.090	-0.001	507207	0.04310	110	0.00- 20.00	27.62	BA
7.336	7.338	-0.002	277329	0.04903	120	0.00- 20.00	15.10	BA
7.528	7.529	-0.001	202773	0.05931	150	0.00- 20.00	11.04	BA
7.985	7.987	-0.002	140079	0.04423	110	0.00- 20.00	7.63	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2607476	0.01958	49			

QC Flag Legend

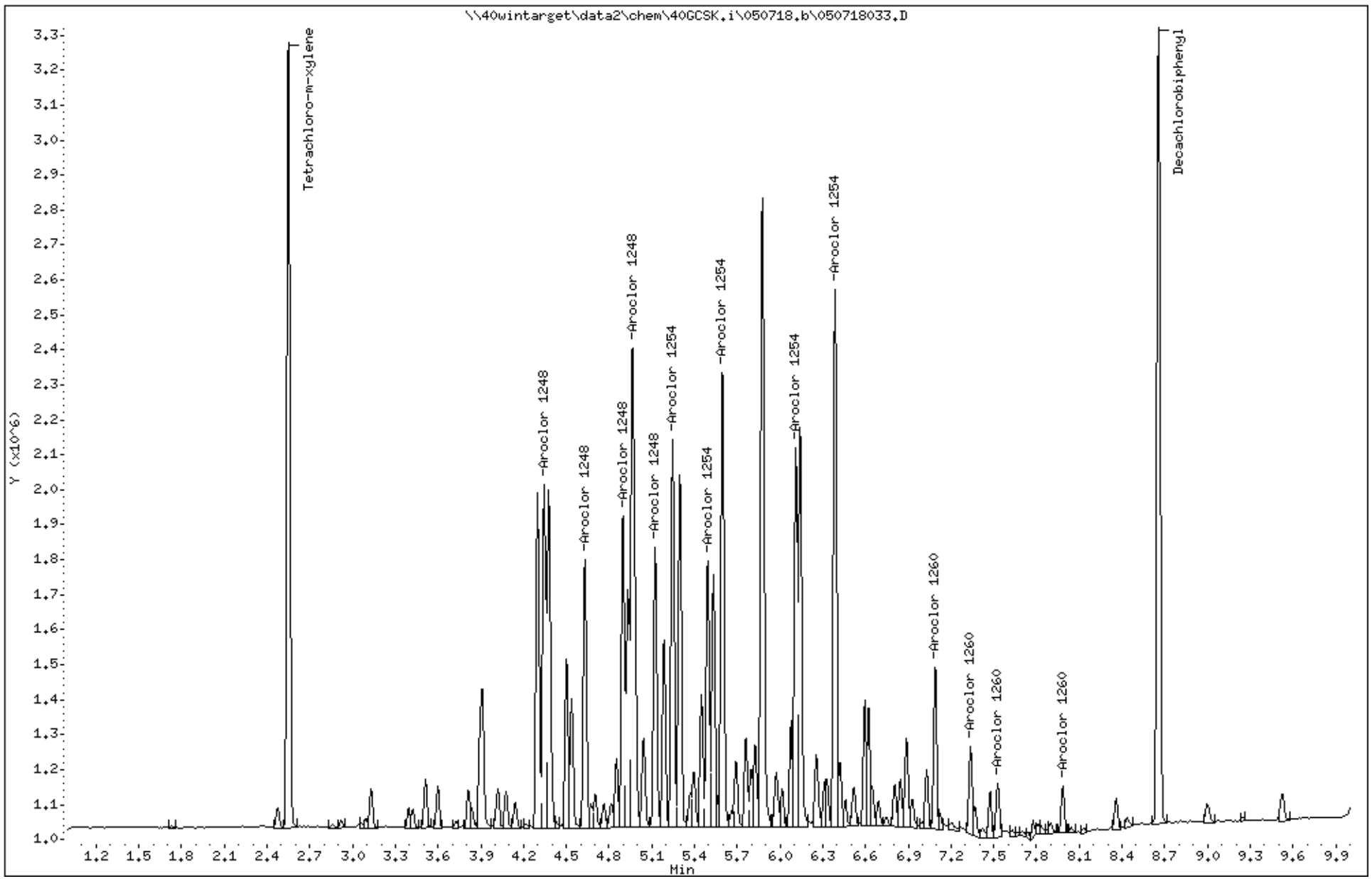
M - Compound response manually integrated.

Review Codes Legend

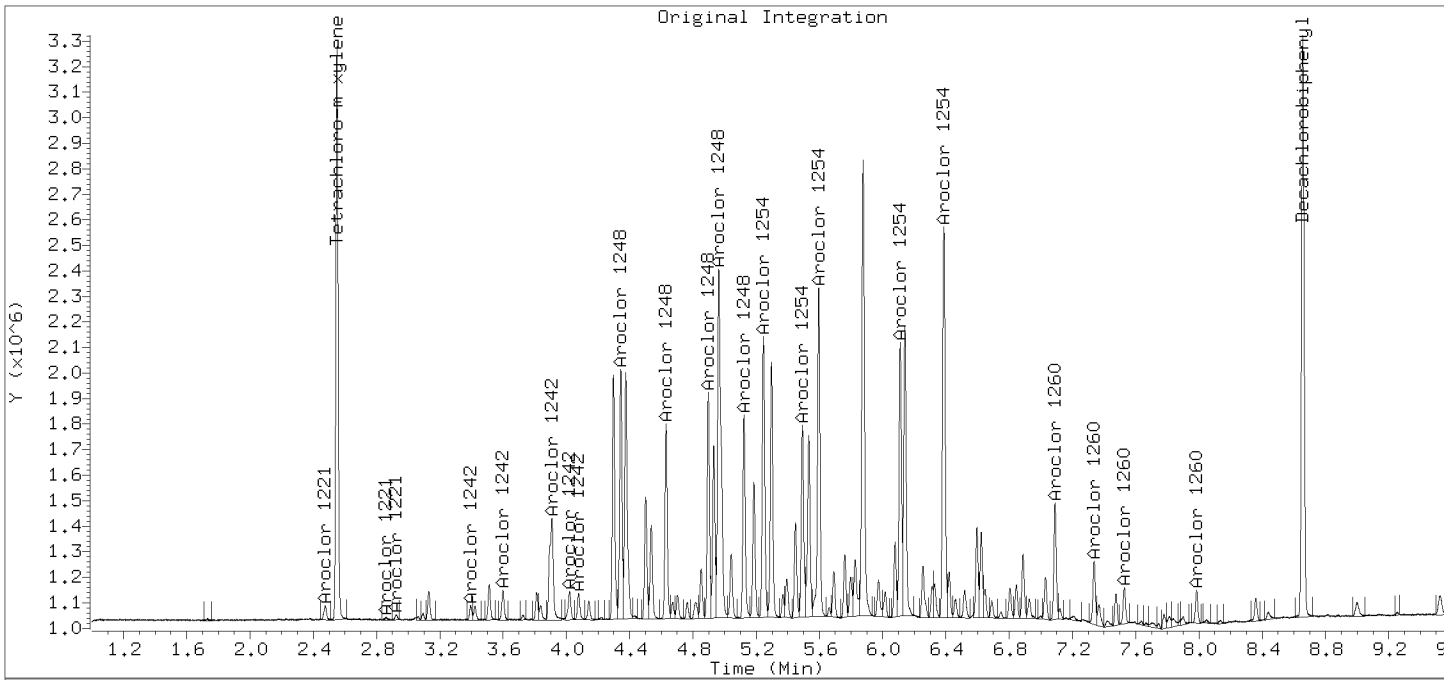
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

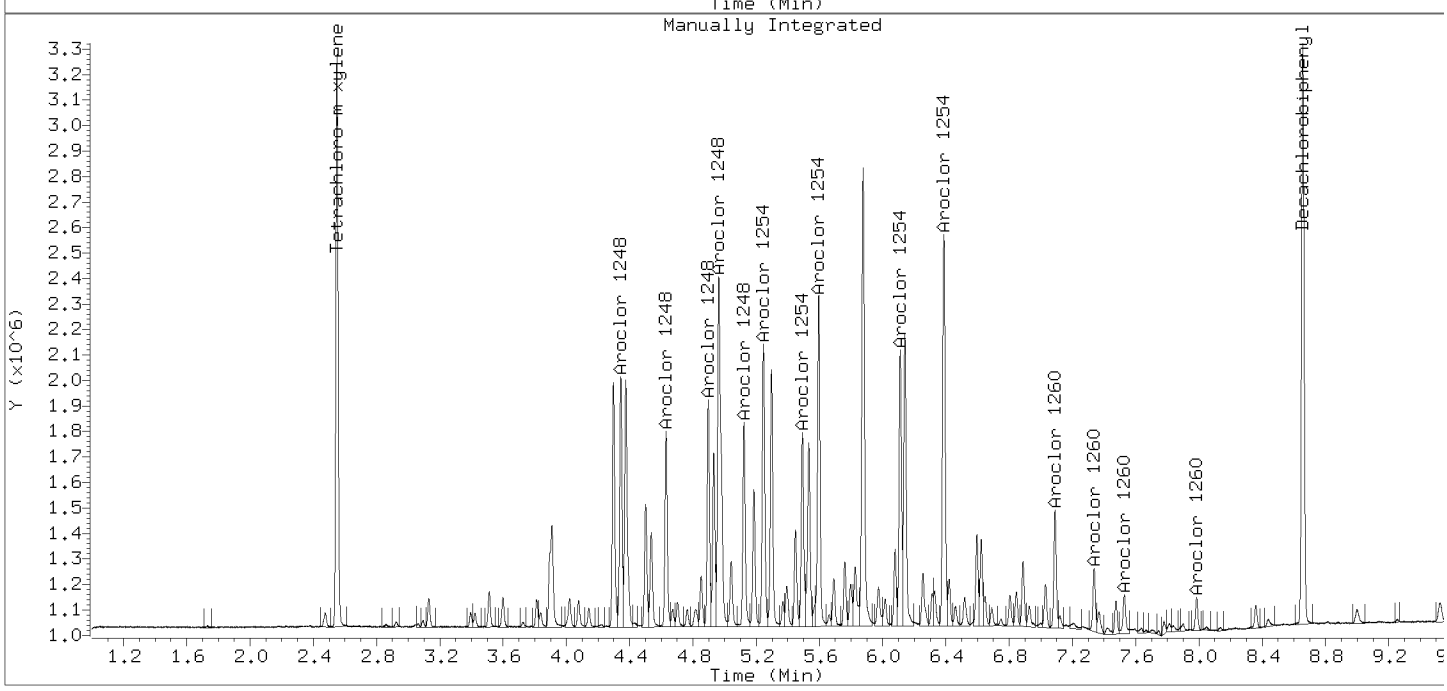
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718033.D
Date : 07-MAY-2018 21:46
Client ID: TD5-170828-01-FALLF
Sample Info: 40157948001 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	58426	0	
Aroclor 1016	58426	0	
Aroclor 1016	58426	0	
Aroclor 1016	58426	0	
Aroclor 1016	58426	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	21583	0	
Aroclor 1232	21583	0	
Aroclor 1232	21583	0	
Aroclor 1232	21583	0	

Aroclor 1232	21583	0	
Aroclor 1242	58426	0	
Aroclor 1242	58426	0	
Aroclor 1242	58426	0	
Aroclor 1242	58426	0	
Aroclor 1242	58426	0	
Aroclor 1248	1038759	1049079	BA
Aroclor 1248	1038759	1049079	BA
Aroclor 1248	1038759	1049079	BA
Aroclor 1248	1038759	1049079	BA
Aroclor 1248	1038759	1049079	BA
Aroclor 1254	1229264	1258697	CO
Aroclor 1254	1229264	1258697	CO
Aroclor 1254	1229264	1258697	CO
Aroclor 1254	1229264	1258697	CO
Aroclor 1254	1229264	1258697	CO
Aroclor 1260	1822029	0	BA
Aroclor 1260	1822029	0	BA
Aroclor 1260	1822029	0	BA
Aroclor 1260	1822029	0	BA
Aroclor 1260	1822029	0	BA
Tetrachloro-m-xylene	2218044	2218044	
Decachlorobiphenyl	2607476	2607476	

==========

SAMPLE NO.

TD5-170828-01-FALLF-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40157948002
Date Analyzed: 05/07/2018 22:02
Lab File ID: 050718.B\050718034.D
Initial wt/vol: 10.0255 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)	<34.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	699	
11097-69-1	PCB-1254 (Aroclor 1254)	461	
11096-82-5	PCB-1260 (Aroclor 1260)	103	J
1336-36-3	PCB, Total	1260	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718034.D
Lab Smp Id: 40157948002 Client Smp ID: TD5-170828-01-FALLF
Inj Date : 07-MAY-2018 22:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948002 x3,
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: 34
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	10.025	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	17631	12019	0.682	0.03		
2.061	9837	7128	0.725	0.01		
2.476	140363	114199	0.814	0.26		
2.551	3811951	3909520	1.026	7.19	$ 2 Tetrachloro-m-xylene	
2.863	14968	15392	1.028	0.02		
2.926	32355	28832	0.891	0.06		
3.051	12349	14194	1.149	0.02		
3.064	17513	19664	1.123	0.03		
3.093	38654	40003	1.035	0.07		
3.131	179661	177636	0.989	0.33		
3.395	66810	62293	0.932	0.12		
3.422	57763	54223	0.939	0.10		
3.513	183036	173680	0.949	0.34		
3.600	152520	141046	0.925	0.28		
3.723	26431	24307	0.920	0.04		
3.812	129173	125895	0.975	0.24		
3.838	66059	60752	0.920	0.12		
3.909	801311	481462	0.601	1.51		
4.020	148430	112517	0.758	0.28		
4.078	142093	122023	0.859	0.26		
4.142	91568	83837	0.916	0.17		
4.220	14225	11669	0.820	0.02		
4.298	1234059	1135627	0.920	2.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.345	1272282	1197734	0.941	2.40	6 Aroclor 1248
4.376	1435211	1164002	0.811	2.70	
4.431	30818	20938	0.679	0.05	
4.502	605692	576433	0.952	1.14	
4.537	493524	433541	0.878	0.93	
4.631	1005285	945243	0.940	1.89	6 Aroclor 1248
4.673	95778	85470	0.892	0.18	
4.704	124801	112541	0.902	0.23	
4.766	84901	70999	0.836	0.16	
4.816	114597	76136	0.664	0.21	
4.853	294068	272826	0.928	0.55	
4.898	1380547	1303960	0.945	2.60	6 Aroclor 1248
4.932	1089636	1031341	0.947	2.05	
4.964	3046653	2161640	0.710	5.75	6 Aroclor 1248
5.042	387325	317215	0.819	0.73	
5.124	1250479	1157967	0.926	2.36	6 Aroclor 1248
5.187	709497	652645	0.920	1.33	
5.246	1743928	1521893	0.873	3.29	7 Aroclor 1254
5.297	1602641	1443703	0.901	3.02	
5.369	128742	120412	0.935	0.24	
5.394	236281	193028	0.817	0.44	
5.449	593186	554478	0.935	1.11	
5.493	1244303	1097552	0.882	2.34	7 Aroclor 1254
5.534	1228243	1061782	0.864	2.31	
5.596	2161554	1787823	0.827	4.08	7 Aroclor 1254
5.662	58399	45152	0.773	0.11	
5.691	279969	253601	0.906	0.52	
5.761	283298	264011	0.932	0.53	
5.798	252095	201050	0.798	0.47	
5.826	495659	350270	0.707	0.93	
5.877	3443129	2825935	0.821	6.49	
5.974	251386	202013	0.804	0.47	
6.016	200516	137250	0.684	0.37	
6.079	429202	404537	0.943	0.81	
6.111	1909910	1724500	0.903	3.60	7 Aroclor 1254
6.141	1954805	1690964	0.865	3.68	
6.255	352560	272925	0.774	0.66	
6.313	157706	176862	1.121	0.29	
6.328	221049	190430	0.861	0.41	
6.386	2572649	2145472	0.834	4.85	7 Aroclor 1254
6.420	268613	241207	0.898	0.50	
6.461	125182	105534	0.843	0.23	
6.517	166904	114628	0.687	0.31	
6.595	519305	468316	0.902	0.98	
6.623	566728	520479	0.918	1.06	
6.647	138513	150027	1.083	0.26	
6.690	121672	104942	0.862	0.22	
6.747	31424	29915	0.952	0.05	
6.804	176703	157858	0.893	0.33	
6.845	185807	168205	0.905	0.35	
6.886	427683	385208	0.901	0.80	
6.928	162747	115262	0.708	0.30	
6.993	34053	23794	0.699	0.06	
7.029	222614	191773	0.861	0.42	
7.090	709017	654568	0.923	1.33	8 Aroclor 1260
7.122	93496	70048	0.749	0.17	
7.157	21123	20767	0.983	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.192	25231	27283	1.081	0.04	
7.203	64199	36434	0.568	0.12	
7.337	398180	348424	0.875	0.75	8 Aroclor 1260
7.368	158031	121443	0.768	0.29	
7.422	55074	33347	0.605	0.10	
7.476	181634	168267	0.926	0.34	
7.528	269970	205975	0.763	0.50	8 Aroclor 1260
7.636	26385	24874	0.943	0.04	
7.665	15206	14987	0.986	0.02	
7.701	39508	25418	0.643	0.07	
7.745	28276	27969	0.989	0.05	
7.778	76592	70180	0.916	0.14	
7.813	63598	48701	0.766	0.12	
7.839	44206	30477	0.689	0.08	
7.886	13470	18597	1.381	0.02	
7.896	34053	29357	0.862	0.06	
7.951	6809	7404	1.087	0.01	
7.985	209179	195933	0.937	0.39	8 Aroclor 1260
8.046	13967	13911	0.996	0.02	
8.132	9721	6858	0.705	0.01	
8.360	157064	143743	0.915	0.29	
8.439	55871	34912	0.625	0.10	
8.656	4237481	3673543	0.867	8.55	$ 12 Decachlorobiphenyl
8.998	91132	58726	0.644	0.17	
9.527	120336	70213	0.583	0.22	
	52977824	46133699		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718034.D
Lab Smp Id: 40157948002 Client Smp ID: TD5-170828-01-FALLF
Inj Date : 07-MAY-2018 22:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948002 x3,
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: 34
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	10.025	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	3811950	0.03165		47		

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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.

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	1272282	0.53337	800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1005285	0.23668	350	0.00- 20.00	79.01	BA
4.897	4.898	-0.001	1380546	0.67772	1000	0.00- 20.00	108.51	BA
4.964	4.963	0.001	3046652	0.55622	830	0.00- 20.00	239.46	BA
5.123	5.123	0.000	1250479	0.33053	490	0.00- 20.00	98.29	BA
			Average of Peak Concentrations =		700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1743928	0.30923	460	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	1244303	0.26680	400	0.00- 20.00	71.35	BA
5.595	5.596	-0.001	2161553	0.25246	380	0.00- 20.00	123.95	BA
6.110	6.113	-0.003	1909910	0.35949	540	0.00- 20.00	109.52	BA
6.386	6.387	-0.001	2572649	0.35140	520	0.00- 20.00	147.52	BA
			Average of Peak Concentrations =		460			
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	709017	0.06024	90	0.00- 20.00	27.56	BA
7.336	7.338	-0.002	398179	0.07040	100	0.00- 20.00	15.48	BA
7.528	7.529	-0.001	269970	0.07897	120	0.00- 20.00	10.49	BA
7.985	7.987	-0.002	209179	0.06605	99	0.00- 20.00	8.13	BA
			Average of Peak Concentrations =		100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	4237480	0.03182	48			

QC Flag Legend

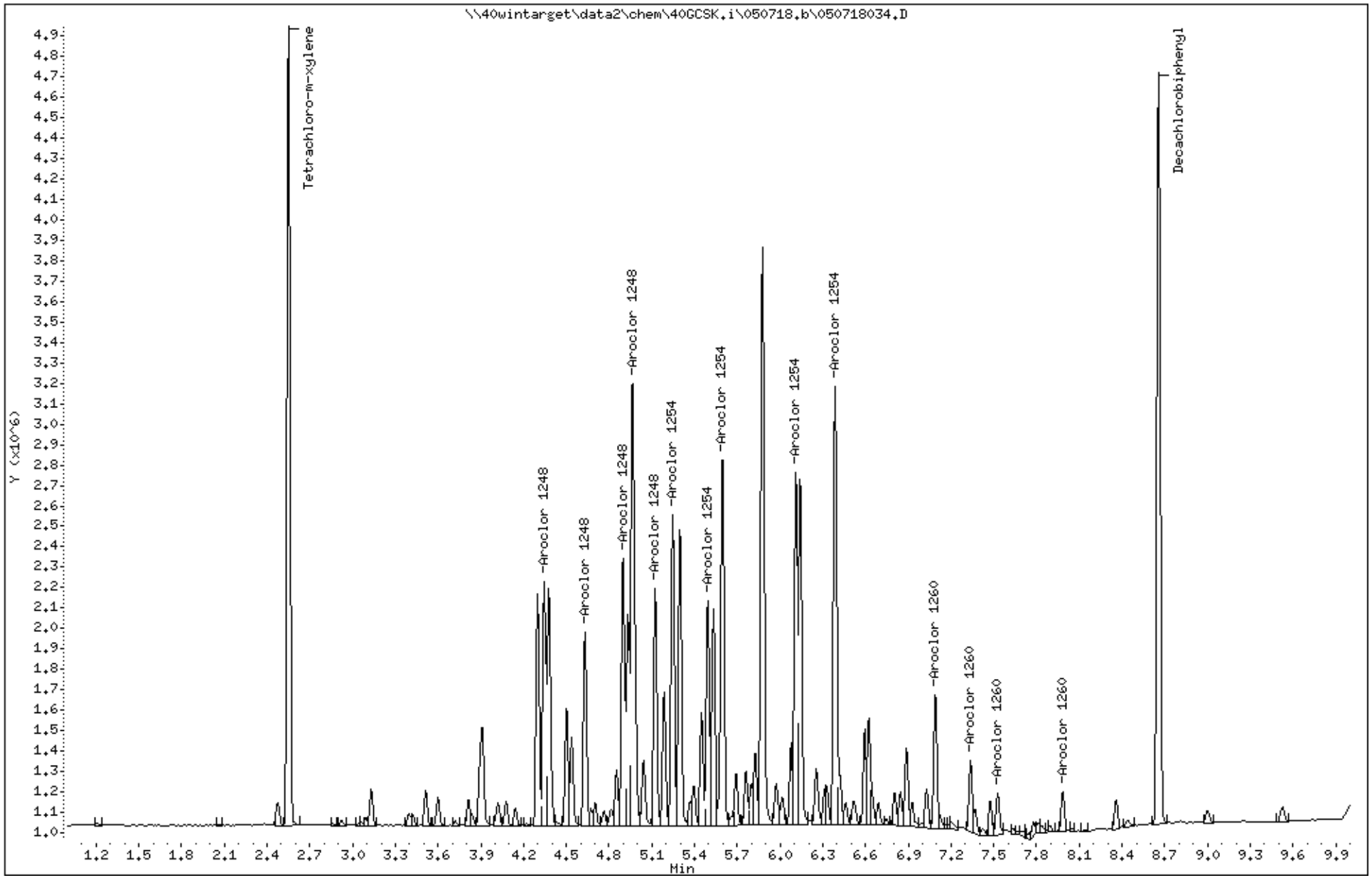
M - Compound response manually integrated.

Review Codes Legend

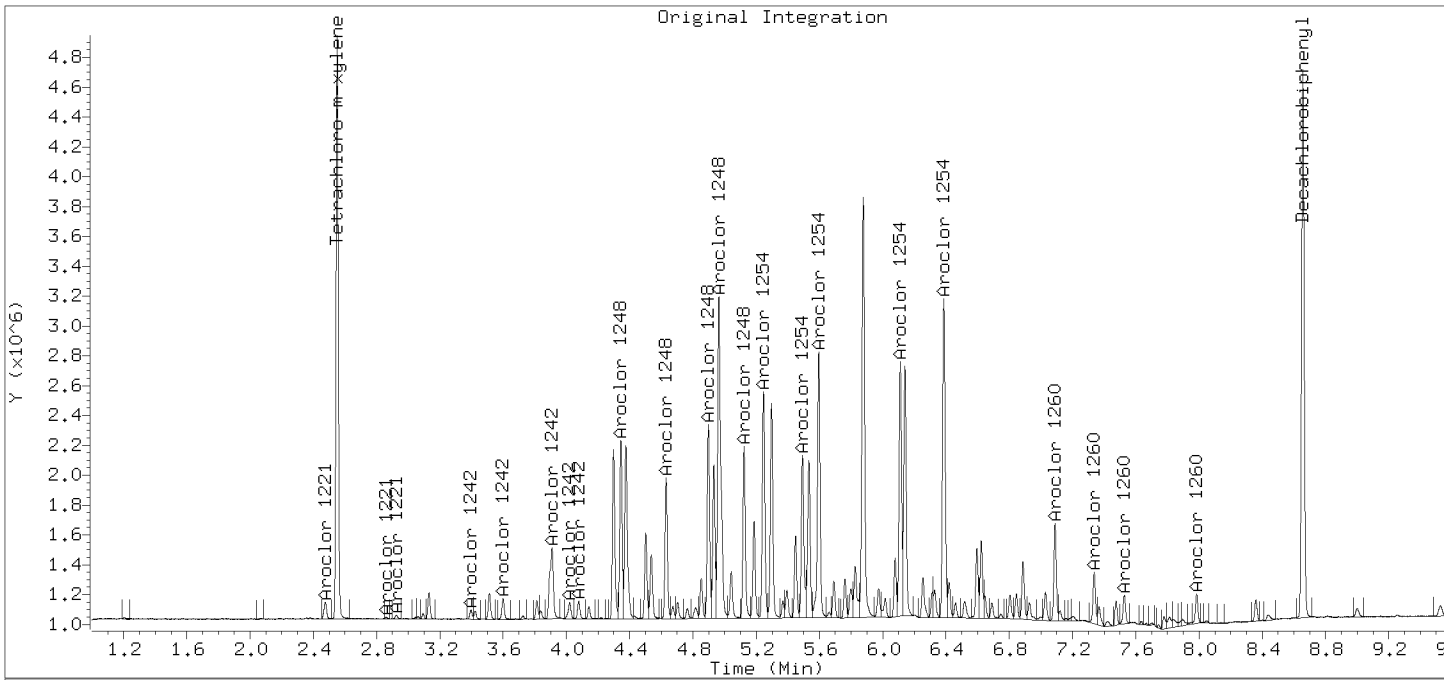
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

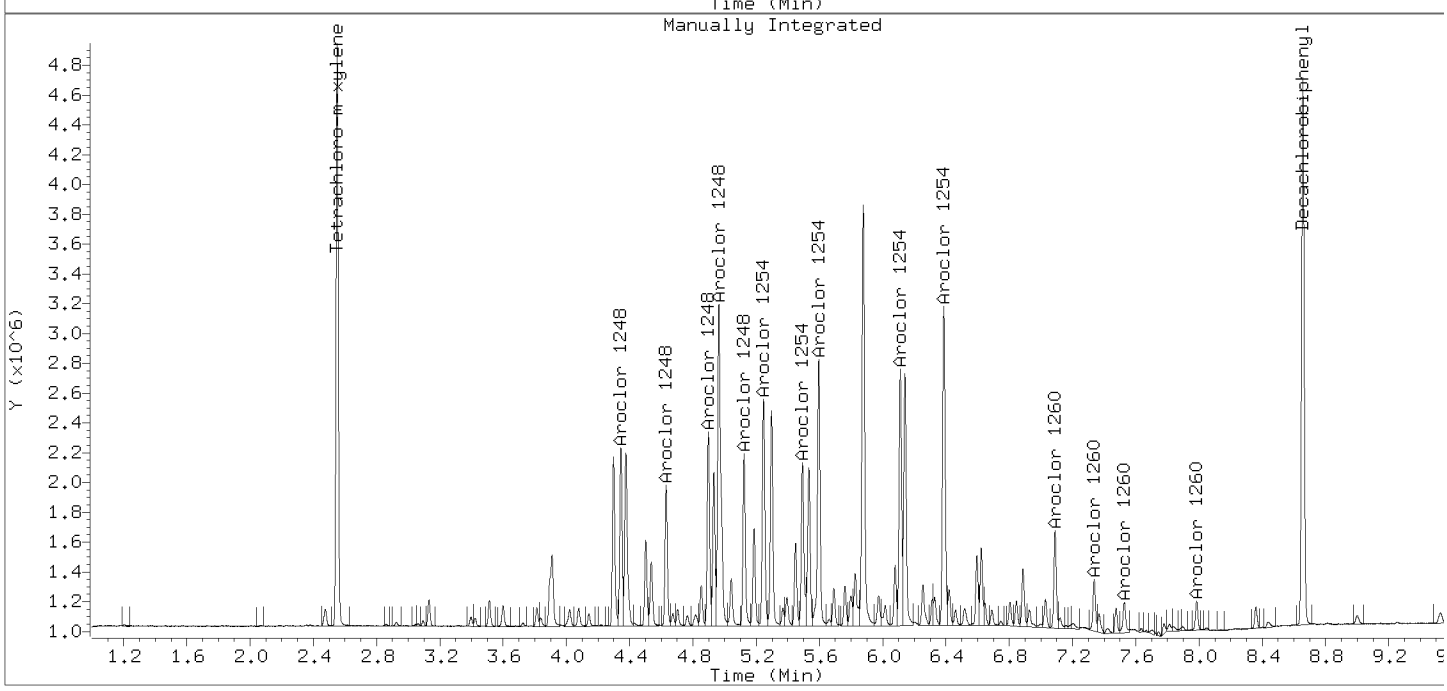
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718034.D
Date : 07-MAY-2018 22:02
Client ID: TD5-170828-01-FALLF
Sample Info: 40157948002 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 22:02 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66810	0	
Aroclor 1016	66810	0	
Aroclor 1016	66810	0	
Aroclor 1016	66810	0	
Aroclor 1016	66810	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32355	0	
Aroclor 1232	32355	0	
Aroclor 1232	32355	0	
Aroclor 1232	32355	0	

Aroclor 1232	32355	0	
Aroclor 1242	66810	0	
Aroclor 1242	66810	0	
Aroclor 1242	66810	0	
Aroclor 1242	66810	0	
Aroclor 1242	66810	0	
Aroclor 1248	1268045	1272282	BA
Aroclor 1248	1268045	1272282	BA
Aroclor 1248	1268045	1272282	BA
Aroclor 1248	1268045	1272282	BA
Aroclor 1248	1268045	1272282	BA
Aroclor 1254	1725212	1743928	BA
Aroclor 1254	1725212	1743928	BA
Aroclor 1254	1725212	1743928	BA
Aroclor 1254	1725212	1743928	BA
Aroclor 1254	1725212	1743928	BA
Aroclor 1260	2554638	0	BA
Aroclor 1260	2554638	0	BA
Aroclor 1260	2554638	0	BA
Aroclor 1260	2554638	0	BA
Aroclor 1260	2554638	0	BA
Tetrachloro-m-xylene	3811950	3811950	
Decachlorobiphenyl	4237480	4237480	

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SAMPLE NO.

TD4-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40157948003
Date Analyzed: 05/08/2018 04:22
Lab File ID: 050718.B\050718058.D
Initial wt/vol: 9.9892 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)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	731	
11097-69-1	PCB-1254 (Aroclor 1254)	474	
11096-82-5	PCB-1260 (Aroclor 1260)	122	J
1336-36-3	PCB, Total	1330	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718058.D
Lab Smp Id: 40157948003 Client Smp ID: TD4-170828-01-SFSH-
Inj Date : 08-MAY-2018 04:22
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948003 x4,
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: 58
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	9.989	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.178	12803	12142	0.948	0.03		
2.004	10547	6317	0.599	0.02		
2.474	42634	37494	0.879	0.10		
2.549	3014750	3105405	1.030	7.12	$ 2 Tetrachloro-m-xylene	
2.859	12771	11448	0.896	0.03		
3.046	35148	28775	0.819	0.08		
3.063	51028	53563	1.050	0.12		
3.092	83445	82255	0.986	0.19		
3.129	31683	30451	0.961	0.07		
3.397	19392	17714	0.913	0.04		
3.422	19481	15911	0.817	0.04		
3.513	34438	32044	0.930	0.08		
3.596	14154	14208	1.004	0.03		
3.726	24901	17140	0.688	0.05		
3.812	137292	129224	0.941	0.32		
3.838	64479	58069	0.901	0.15		
3.900	311353	363715	1.168	0.73		
3.909	501326	457462	0.913	1.18		
4.007	23229	27554	1.186	0.05		
4.020	45971	31590	0.687	0.10		
4.076	146955	120483	0.820	0.34		
4.142	89253	75479	0.846	0.21		
4.297	1136536	1061153	0.934	2.68		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.344	1124844	1072256	0.953	2.65	6 Aroclor 1248
4.376	1275155	1086067	0.852	3.01	
4.501	588093	562693	0.957	1.39	
4.537	485546	419850	0.865	1.14	
4.630	815284	776297	0.952	1.92	6 Aroclor 1248
4.672	91584	80857	0.883	0.21	
4.703	146465	122161	0.834	0.34	
4.765	76263	58650	0.769	0.18	
4.815	108810	67587	0.621	0.25	
4.852	223802	202030	0.903	0.52	
4.897	1075542	1041492	0.968	2.54	6 Aroclor 1248
4.932	717783	679293	0.946	1.69	
4.963	2165306	1483088	0.685	5.11	6 Aroclor 1248
5.042	338429	285922	0.845	0.80	
5.123	899964	853964	0.949	2.12	6 Aroclor 1248
5.186	594391	533108	0.897	1.40	
5.246	1457752	1304101	0.895	3.44	7 Aroclor 1254
5.297	1147939	1037333	0.904	2.71	
5.369	92753	87007	0.938	0.21	
5.396	210571	165763	0.787	0.49	
5.449	507098	484909	0.956	1.19	
5.493	974239	865493	0.888	2.30	7 Aroclor 1254
5.533	896474	773005	0.862	2.11	
5.574	87931	96864	1.102	0.20	
5.595	1593568	1427349	0.896	3.76	7 Aroclor 1254
5.662	52624	43377	0.824	0.12	
5.692	258998	224938	0.868	0.61	
5.761	232909	217916	0.936	0.55	
5.799	219953	164064	0.746	0.51	
5.827	295876	253274	0.856	0.69	
5.847	63166	92883	1.470	0.14	
5.876	2587869	2117522	0.818	6.11	
5.972	241667	170376	0.705	0.57	
6.015	135896	99666	0.733	0.32	
6.078	326301	300444	0.921	0.77	
6.111	1283031	1149354	0.896	3.03	7 Aroclor 1254
6.140	1610109	1360329	0.845	3.80	
6.254	319202	253855	0.795	0.75	
6.313	166902	162292	0.972	0.39	
6.386	2113399	1787680	0.846	4.99	7 Aroclor 1254
6.419	255826	225799	0.883	0.60	
6.460	117644	97369	0.828	0.27	
6.518	135200	96755	0.716	0.31	
6.573	14249	15829	1.111	0.03	
6.596	339825	325544	0.958	0.80	
6.623	447747	411050	0.918	1.05	
6.646	133259	133404	1.001	0.31	
6.691	95415	86177	0.903	0.22	
6.748	29785	25827	0.867	0.07	
6.805	149484	130291	0.872	0.35	
6.847	164352	141014	0.858	0.38	
6.887	353549	318556	0.901	0.83	
6.927	132800	93678	0.705	0.31	
6.996	33296	22958	0.690	0.07	
7.030	216863	193295	0.891	0.51	
7.089	618260	559229	0.905	1.46	8 Aroclor 1260
7.121	73337	53747	0.733	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.159	27257	23935	0.878	0.06	
7.180	14345	20861	1.454	0.03	
7.206	72030	33169	0.460	0.17	
7.264	42677	18353	0.430	0.10	
7.336	318379	287718	0.904	0.75	8 Aroclor 1260
7.368	174297	115677	0.664	0.41	
7.425	136280	75027	0.551	0.32	
7.477	149235	132359	0.887	0.35	
7.505	24512	38846	1.585	0.05	
7.527	256848	176565	0.687	0.60	8 Aroclor 1260
7.578	44483	33844	0.761	0.10	
7.631	54213	38993	0.719	0.12	
7.666	57132	33074	0.579	0.13	
7.711	48820	47099	0.965	0.11	
7.747	40399	47966	1.187	0.09	
7.785	90464	64561	0.714	0.21	
7.814	85603	45823	0.535	0.20	
7.899	65064	36117	0.555	0.15	
7.984	191725	152562	0.796	0.45	8 Aroclor 1260
8.047	31097	17586	0.566	0.07	
8.315	12131	11428	0.942	0.02	
8.358	138696	108399	0.782	0.32	
8.434	12380	13139	1.061	0.02	
8.459	15249	9595	0.629	0.03	
8.656	3359847	2951684	0.879	8.49	$ 12 Decachlorobiphenyl
8.717	9677	8705	0.900	0.02	
8.809	16747	9793	0.585	0.03	
8.999	13482	13094	0.971	0.03	
9.252	20088	19627	0.977	0.04	
	42301102	37270826		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718058.D
Lab Smp Id: 40157948003 Client Smp ID: TD4-170828-01-SFSH-
Inj Date : 08-MAY-2018 04:22
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948003 x4,
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: 58
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	9.989	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	3014749	0.02503	50			
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	1124843	0.47156	940	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	815284	0.19195	380	0.00- 20.00	72.48	BA
4.897	4.898	-0.001	1075541	0.52799	1000	0.00- 20.00	95.62	BA
4.963	4.963	0.000	2165306	0.39532	790	0.00- 20.00	192.50	BA
5.123	5.123	0.000	899964	0.23788	480	0.00- 20.00	80.01	BA
Average of Peak Concentrations =					730			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1457752	0.25848	520	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	974238	0.20890	420	0.00- 20.00	66.83	CO
5.595	5.596	-0.001	1593568	0.18612	370	0.00- 20.00	109.32	CO
6.110	6.113	-0.003	1283031	0.24149	480	0.00- 20.00	88.01	CO
6.385	6.387	-0.002	2113398	0.28867	580	0.00- 20.00	144.98	CO
Average of Peak Concentrations =					470			
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	618259	0.05253	100	0.00- 20.00	29.25	BA
7.336	7.338	-0.002	318378	0.05629	110	0.00- 20.00	15.06	BA
7.527	7.529	-0.002	256848	0.07513	150	0.00- 20.00	12.15	BA
7.984	7.987	-0.003	191725	0.06054	120	0.00- 20.00	9.07	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	3359847	0.02523	50			

QC Flag Legend

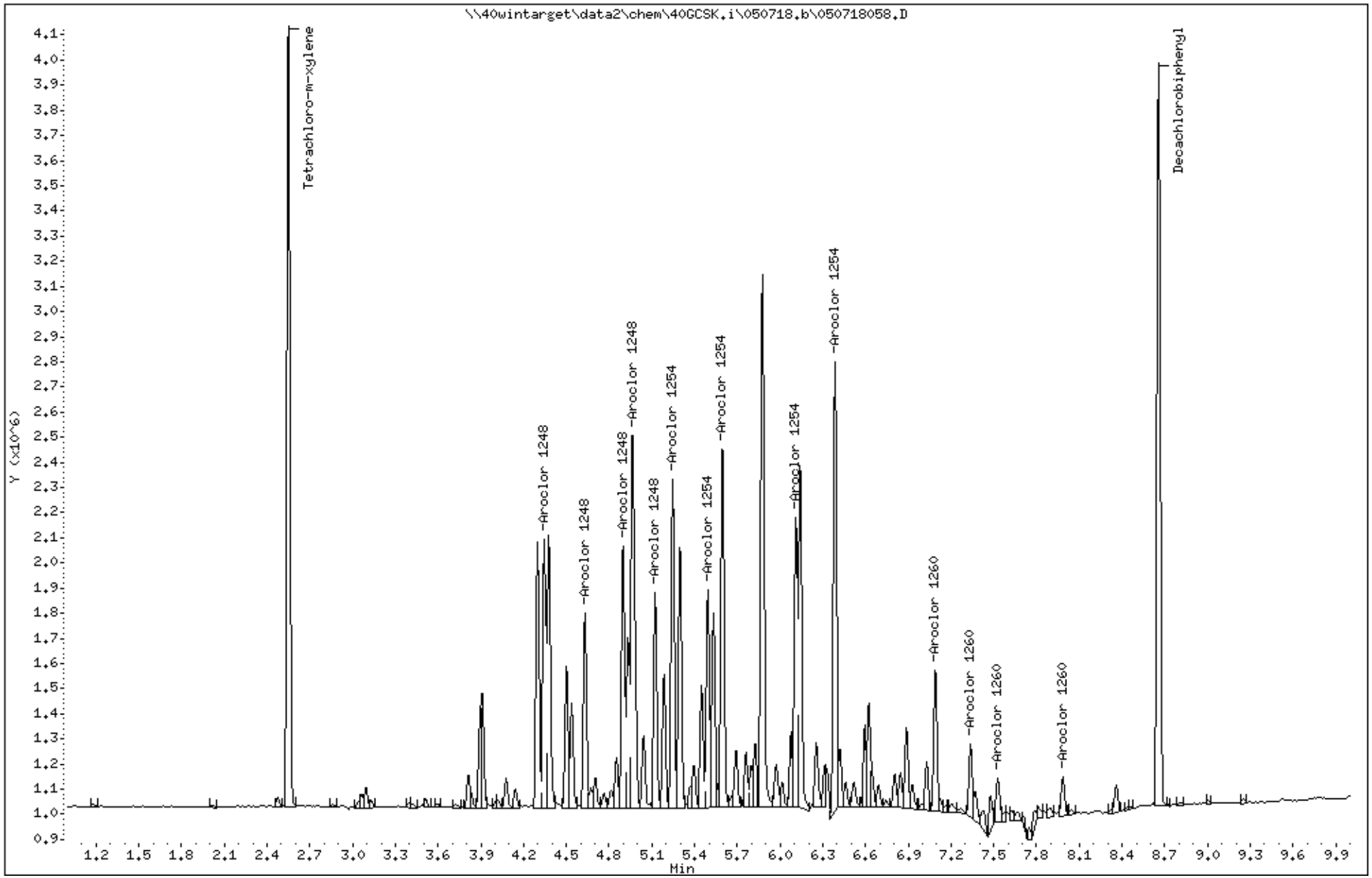
M - Compound response manually integrated.

Review Codes Legend

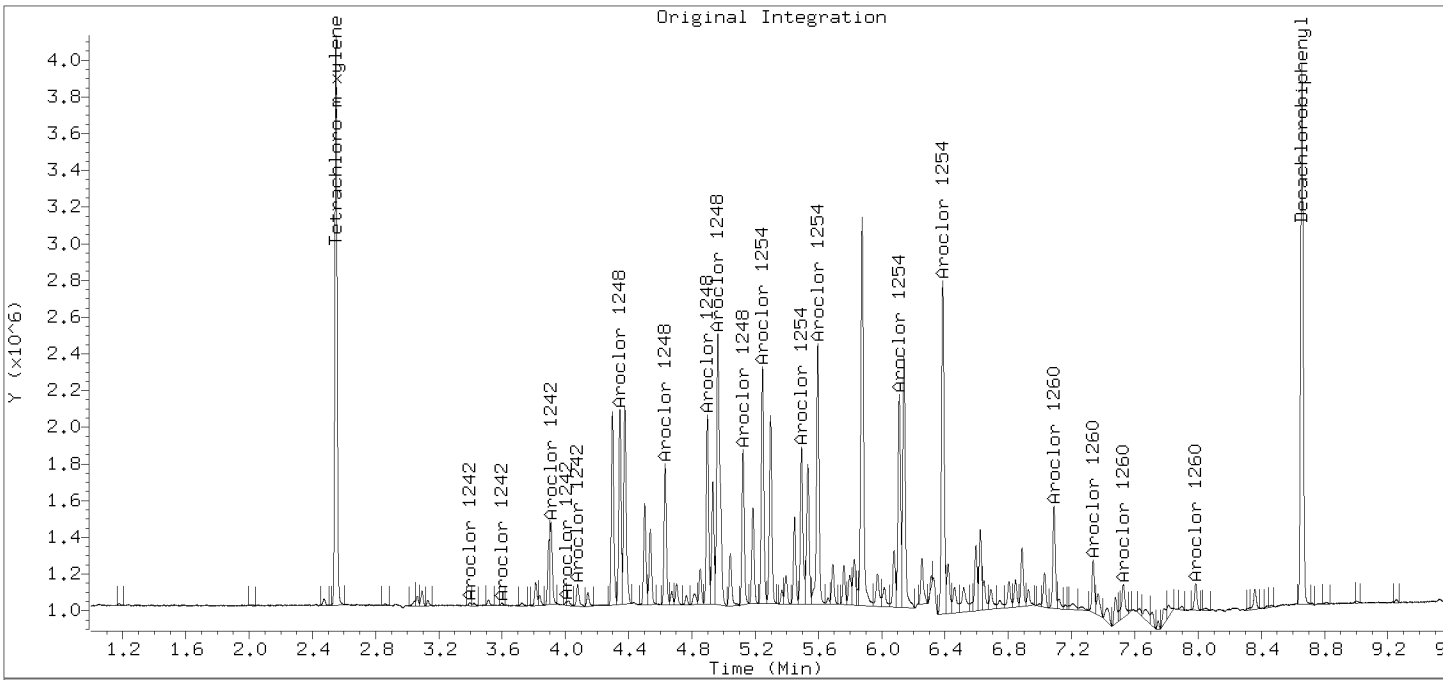
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

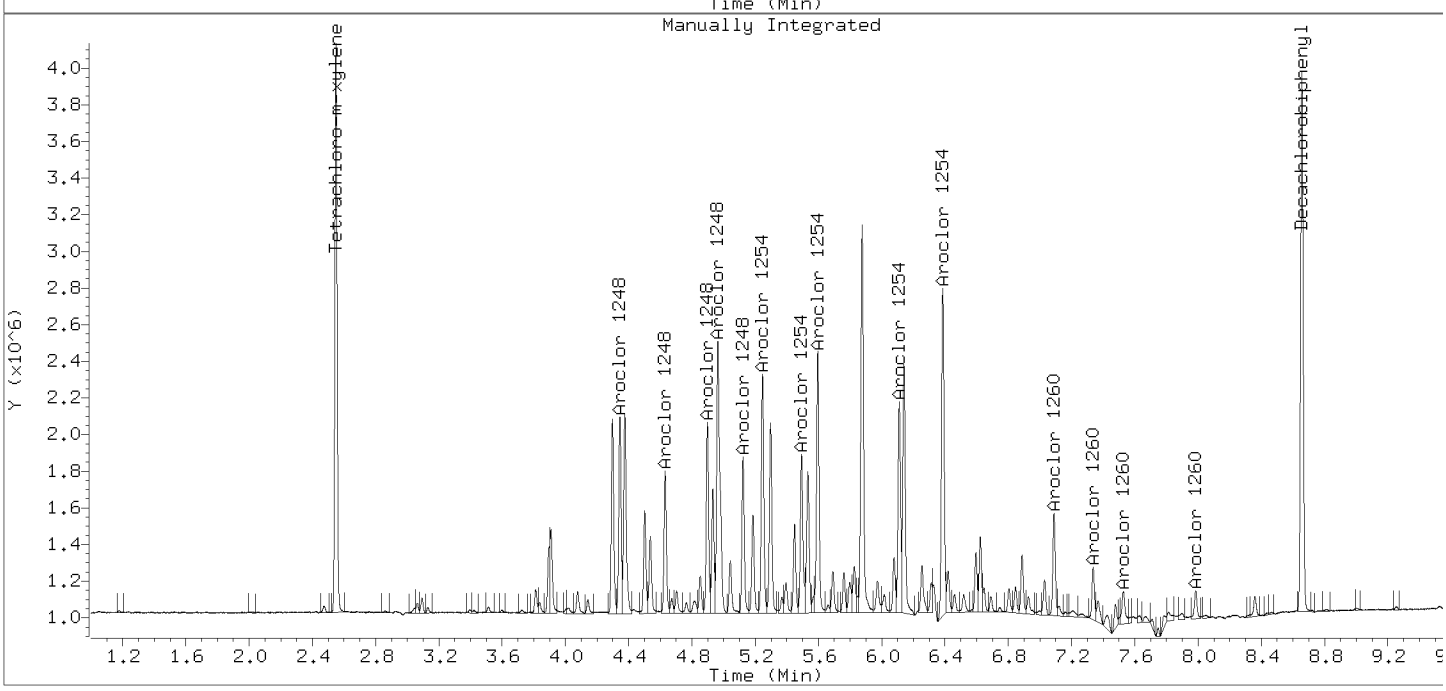
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718058.D
Date : 08-MAY-2018 04:22
Client ID: TD4-170828-01-SFSH-
Sample Info: 40157948003 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718058.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 04:22 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	19391	0	
Aroclor 1016	19391	0	
Aroclor 1016	19391	0	
Aroclor 1016	19391	0	
Aroclor 1016	19391	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	19391	0	
Aroclor 1242	19391	0	
Aroclor 1242	19391	0	
Aroclor 1242	19391	0	
Aroclor 1242	19391	0	
Aroclor 1248	1098435	1124843	BA
Aroclor 1248	1098435	1124843	BA
Aroclor 1248	1098435	1124843	BA
Aroclor 1248	1098435	1124843	BA
Aroclor 1248	1098435	1124843	BA
Aroclor 1254	1415648	1457752	CO
Aroclor 1254	1415648	1457752	CO
Aroclor 1254	1415648	1457752	CO
Aroclor 1254	1415648	1457752	CO
Aroclor 1254	1415648	1457752	CO
Aroclor 1260	2186556	0	BA
Aroclor 1260	2186556	0	BA
Aroclor 1260	2186556	0	BA
Aroclor 1260	2186556	0	BA
Aroclor 1260	2186556	0	BA
Tetrachloro-m-xylene	3014749	3014749	
Decachlorobiphenyl	3359847	3359847	

==========

SAMPLE NO.

TD4-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40157948004
Date Analyzed: 05/08/2018 04:38
Lab File ID: 050718.B\050718059.D
Initial wt/vol: 9.9903 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)	612	
11097-69-1	PCB-1254 (Aroclor 1254)	331	
11096-82-5	PCB-1260 (Aroclor 1260)	85.3	J
1336-36-3	PCB, Total	1030	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718059.D
Lab Smp Id: 40157948004 Client Smp ID: TD4-170828-01-SFSH-
Inj Date : 08-MAY-2018 04:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948004 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: 59
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	9.990	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	22829	26573	1.164	0.03		
1.230	18065	15413	0.853	0.02		
1.591	13901	10852	0.781	0.02		
1.732	10800	9227	0.854	0.01		
1.817	9590	10031	1.046	0.01		
2.006	19930	12849	0.645	0.02		
2.115	10009	9229	0.922	0.01		
2.226	10286	9055	0.880	0.01		
2.377	11381	11234	0.987	0.01		
2.424	15601	14495	0.929	0.02		
2.475	111482	98085	0.880	0.16		
2.550	6071972	6254979	1.030	8.78	$ 2 Tetrachloro-m-xylene	
2.859	23819	20249	0.850	0.03		
2.923	45482	26021	0.572	0.06		
2.994	12596	11528	0.915	0.01		
3.053	70858	58159	0.821	0.10		
3.064	120237	126449	1.052	0.17		
3.094	188689	195031	1.034	0.27		
3.131	71275	69788	0.979	0.10		
3.397	41811	36298	0.868	0.06		
3.421	31800	30965	0.974	0.04		
3.514	92058	82682	0.898	0.13		
3.599	51951	44278	0.852	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.725	44652	39710	0.889	0.06	
3.813	350286	348373	0.995	0.50	
3.837	163133	145487	0.892	0.23	
3.895	817454	955426	1.169	1.18	
3.908	1156932	1057076	0.914	1.67	
4.006	50526	52418	1.037	0.07	
4.019	70250	56372	0.802	0.10	
4.077	298346	273283	0.916	0.43	
4.141	157592	147131	0.934	0.22	
4.298	2190463	2048725	0.935	3.17	
4.344	2029041	1925710	0.949	2.93	6 Aroclor 1248
4.376	2207245	1867583	0.846	3.19	
4.433	45734	34633	0.757	0.06	
4.501	1179781	1097923	0.931	1.70	
4.537	875148	784462	0.896	1.26	
4.630	1526611	1439136	0.943	2.20	6 Aroclor 1248
4.672	149846	136226	0.909	0.21	
4.702	259177	230325	0.889	0.37	
4.763	120533	99481	0.825	0.17	
4.814	180474	117677	0.652	0.26	
4.852	353704	338389	0.957	0.51	
4.897	1689264	1605872	0.951	2.44	6 Aroclor 1248
4.932	1345646	1268572	0.943	1.94	
4.964	3419877	2300352	0.673	4.95	6 Aroclor 1248
5.042	569727	478874	0.841	0.82	
5.123	1485095	1414551	0.952	2.14	6 Aroclor 1248
5.186	959462	864927	0.901	1.38	
5.247	2047169	1840580	0.899	2.96	7 Aroclor 1254
5.297	1776667	1565657	0.881	2.57	
5.367	146124	135183	0.925	0.21	
5.395	333388	268102	0.804	0.48	
5.449	703980	642197	0.912	1.01	
5.492	1416247	1225683	0.865	2.04	7 Aroclor 1254
5.534	1406854	1211797	0.861	2.03	
5.574	142464	158040	1.109	0.20	
5.596	2322026	2051512	0.884	3.36	7 Aroclor 1254
5.661	73570	64406	0.875	0.10	
5.691	360017	313544	0.871	0.52	
5.761	366551	340832	0.930	0.53	
5.797	314894	246601	0.783	0.45	
5.825	520913	362847	0.697	0.75	
5.877	3579484	2909010	0.813	5.18	
5.974	347812	242976	0.699	0.50	
6.016	182639	149665	0.819	0.26	
6.079	487139	458723	0.942	0.70	
6.111	1747236	1564147	0.895	2.52	7 Aroclor 1254
6.141	2222742	1911146	0.860	3.21	
6.254	477604	328827	0.688	0.69	
6.313	198426	206948	1.043	0.28	
6.328	253327	218479	0.862	0.36	
6.386	2830945	2388161	0.844	4.09	7 Aroclor 1254
6.420	319734	290147	0.907	0.46	
6.459	143876	118088	0.821	0.20	
6.518	210022	147056	0.700	0.30	
6.569	17612	20867	1.185	0.02	
6.595	550558	526619	0.957	0.79	
6.622	576162	521778	0.906	0.83	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.646	188748	187279	0.992	0.27	
6.691	115107	108556	0.943	0.16	
6.748	54802	37475	0.684	0.07	
6.805	226300	181658	0.803	0.32	
6.845	254555	214227	0.842	0.36	
6.886	458756	390640	0.852	0.66	
6.928	213462	131676	0.617	0.30	
7.000	54271	35560	0.655	0.07	
7.029	408792	341144	0.835	0.59	
7.089	905842	828976	0.915	1.31	8 Aroclor 1260
7.119	106243	83394	0.785	0.15	
7.161	45109	35031	0.777	0.06	
7.181	31305	36348	1.161	0.04	
7.207	118966	52885	0.445	0.17	
7.266	53327	27440	0.515	0.07	
7.337	428612	382378	0.892	0.62	8 Aroclor 1260
7.367	223376	158579	0.710	0.32	
7.424	126522	71598	0.566	0.18	
7.476	191207	173153	0.906	0.27	
7.528	349173	240388	0.688	0.50	8 Aroclor 1260
7.631	71625	44185	0.617	0.10	
7.665	64623	36375	0.563	0.09	
7.706	59587	38789	0.651	0.08	
7.747	37991	45348	1.194	0.05	
7.780	92262	78615	0.852	0.13	
7.813	135099	66349	0.491	0.19	
7.898	114007	59900	0.525	0.16	
7.985	271754	216393	0.796	0.39	8 Aroclor 1260
8.047	37646	23061	0.613	0.05	
8.092	12178	11571	0.950	0.01	
8.137	12371	10996	0.889	0.01	
8.223	24540	13637	0.556	0.03	
8.360	194174	154468	0.796	0.28	
8.439	52271	26730	0.511	0.07	
8.656	6266248	5459543	0.871	9.66	$ 12 Decachlorobiphenyl
8.716	17900	14253	0.796	0.02	
8.811	18751	17031	0.908	0.02	
8.998	75709	42145	0.557	0.10	
9.253	22979	19899	0.866	0.03	
9.527	83299	53042	0.637	0.12	
9.570	18645	14017	0.752	0.02	
	69086741	60906514		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718059.D
Lab Smp Id: 40157948004 Client Smp ID: TD4-170828-01-SFSH-
Inj Date : 08-MAY-2018 04:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948004 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: 59
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	9.990	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	6071972	0.05041	50			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	2029041	0.85063	850	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1526610	0.35942	360	0.00- 20.00	75.24	BA
4.897	4.898	-0.001	1689263	0.82927	830	0.00- 20.00	83.25	BA
4.963	4.963	0.000	3419877	0.62436	620	0.00- 20.00	168.55	BA
5.122	5.123	-0.001	1485095	0.39254	390	0.00- 20.00	73.19	BA
Average of Peak Concentrations =					610			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	2047169	0.36300	360	0.00- 20.00	100.00(M)	CO
5.492	5.492	0.000	1416247	0.30367	300	0.00- 20.00	69.18	CO
5.595	5.596	-0.001	2322026	0.27120	270	0.00- 20.00	113.43	CO
6.110	6.113	-0.003	1747236	0.32887	330	0.00- 20.00	85.35	CO
6.385	6.387	-0.002	2830945	0.38668	390	0.00- 20.00	138.29	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)	BA
7.089	7.090	-0.001	905842	0.07697	77	0.00- 20.00	32.00	BA
7.336	7.338	-0.002	428612	0.07578	76	0.00- 20.00	15.14	BA
7.527	7.529	-0.002	349172	0.10213	100	0.00- 20.00	12.33	BA
7.984	7.987	-0.003	271753	0.08581	86	0.00- 20.00	9.60	BA
Average of Peak Concentrations =					85			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	6266247	0.04705	47			

QC Flag Legend

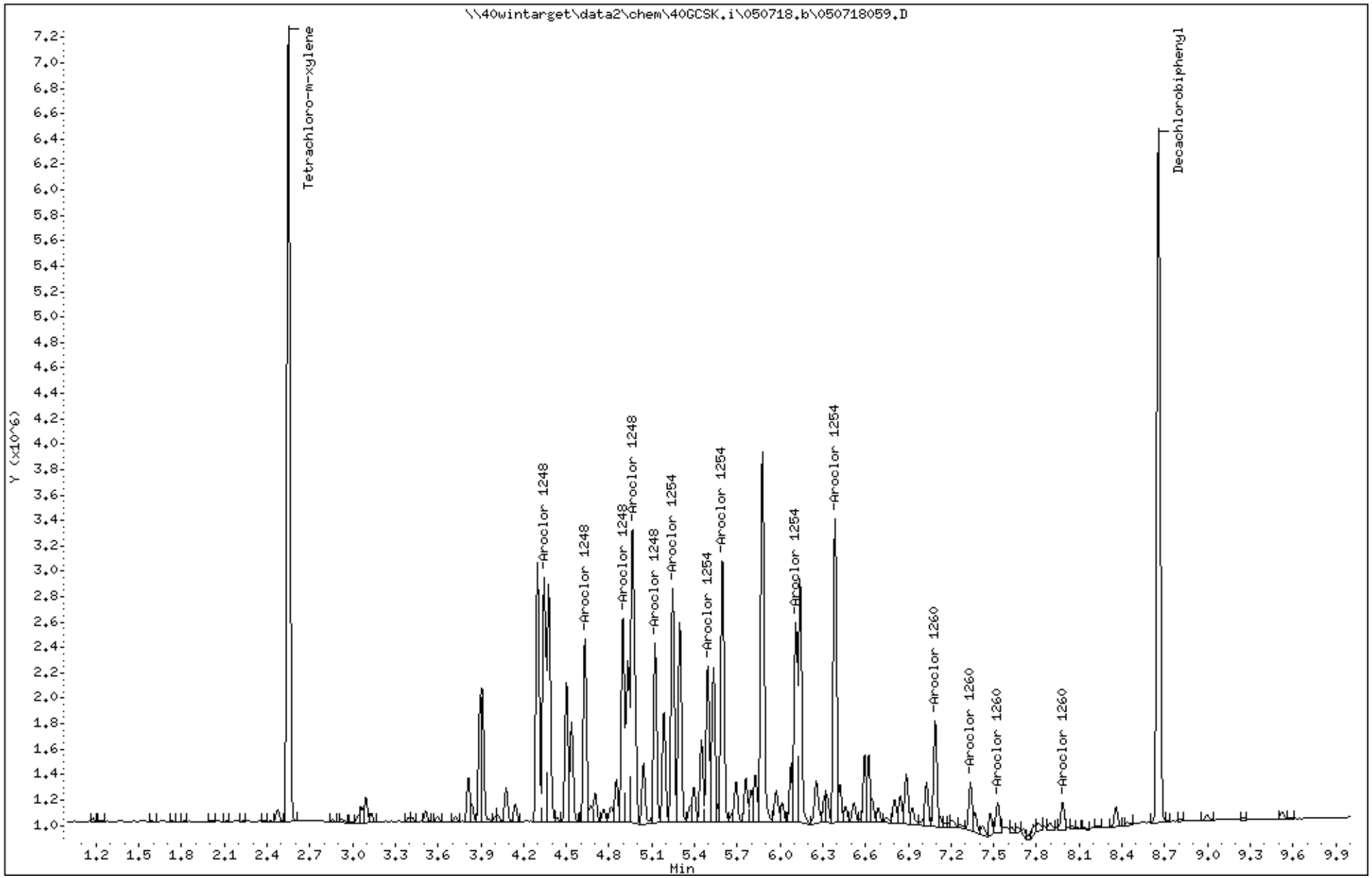
M - Compound response manually integrated.

Review Codes Legend

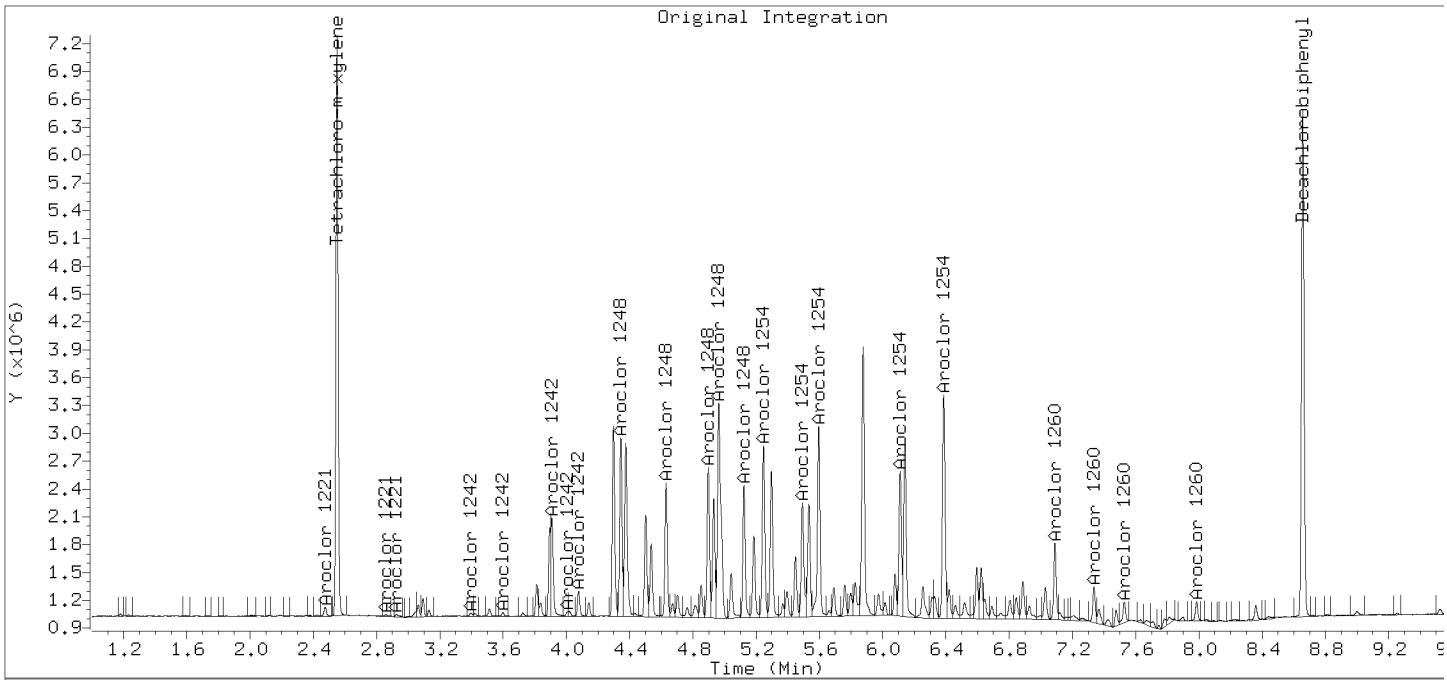
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

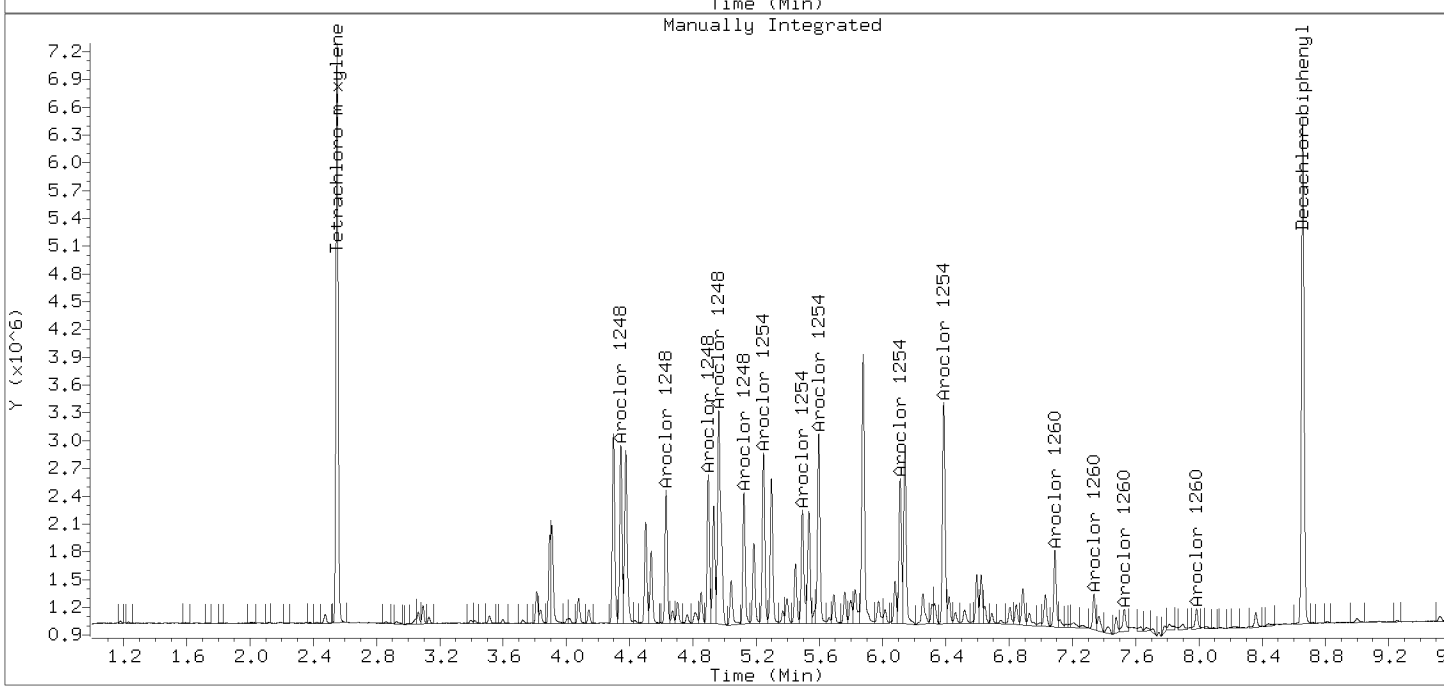
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718059.D
Date : 08-MAY-2018 04:38
Client ID: TD4-170828-01-SFSH-
Sample Info: 40157948004 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718059.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 04:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	41811	0	
Aroclor 1016	41811	0	
Aroclor 1016	41811	0	
Aroclor 1016	41811	0	
Aroclor 1016	41811	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	45482	0	
Aroclor 1232	45482	0	
Aroclor 1232	45482	0	
Aroclor 1232	45482	0	

Aroclor 1232	45482	0	
Aroclor 1242	41811	0	
Aroclor 1242	41811	0	
Aroclor 1242	41811	0	
Aroclor 1242	41811	0	
Aroclor 1242	41811	0	
Aroclor 1248	2019832	2029041	BA
Aroclor 1248	2019832	2029041	BA
Aroclor 1248	2019832	2029041	BA
Aroclor 1248	2019832	2029041	BA
Aroclor 1248	2019832	2029041	BA
Aroclor 1254	2085648	2047169	CO
Aroclor 1254	2085648	2047169	CO
Aroclor 1254	2085648	2047169	CO
Aroclor 1254	2085648	2047169	CO
Aroclor 1254	2085648	2047169	CO
Aroclor 1260	2879888	0	BA
Aroclor 1260	2879888	0	BA
Aroclor 1260	2879888	0	BA
Aroclor 1260	2879888	0	BA
Aroclor 1260	2879888	0	BA
Tetrachloro-m-xylene	6071972	6071972	
Decachlorobiphenyl	6266247	6266247	

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SAMPLE NO.

TD3-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40157948005
Date Analyzed: 05/10/2018 08:42
Lab File ID: 051018.B\051018006.D
Initial wt/vol: 10.0174 Final wt/vol: 5 mL Dilution: 6
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<68.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<68.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<68.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<68.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	2000	
11097-69-1	PCB-1254 (Aroclor 1254)	1130	
11096-82-5	PCB-1260 (Aroclor 1260)	174	J
1336-36-3	PCB, Total	3300	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018006.D
Lab Smp Id: 40157948005 Client Smp ID: TD3-170828-01-SPSH-
Inj Date : 10-MAY-2018 08:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948005 x6,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6
Dil Factor: 6.00000
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	6.000	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
1.181	10747	9668	0.900	0.01		
1.205	17290	15871	0.918	0.02		
2.477	60672	50094	0.826	0.10		
2.550	1999294	2022613	1.012	3.42	$ 2 Tetrachloro-m-xylene	
2.926	11511	12766	1.109	0.01		
3.049	19540	17913	0.917	0.03		
3.063	32734	33158	1.013	0.05		
3.094	62599	63539	1.015	0.10		
3.130	45780	44235	0.966	0.07		
3.395	20837	17743	0.852	0.03		
3.423	19369	17328	0.895	0.03		
3.515	45899	39875	0.869	0.07		
3.599	30375	28504	0.938	0.05		
3.724	11802	11378	0.964	0.02		
3.812	87802	85065	0.969	0.15		
3.838	62056	51047	0.823	0.10		
3.910	859310	571957	0.666	1.47		
4.019	69529	37212	0.535	0.11		
4.077	194231	167015	0.860	0.33		
4.143	107069	98562	0.921	0.18		
4.297	1864986	1730551	0.928	3.19		
4.345	1842524	1732704	0.940	3.15	6 Aroclor 1248	BA
4.376	1616861	1376572	0.851	2.77		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.431	23877	21150	0.886	0.04	
4.502	1319843	1236554	0.937	2.26	
4.537	1004365	884632	0.881	1.72	
4.631	1533856	1456750	0.950	2.62	6 Aroclor 1248
4.673	75705	68807	0.909	0.12	
4.704	267629	238020	0.889	0.45	
4.765	90539	74178	0.819	0.15	
4.812	167715	117226	0.699	0.28	
4.853	333586	316394	0.948	0.57	
4.898	1885069	1782968	0.946	3.23	6 Aroclor 1248
4.933	1433235	1366248	0.953	2.45	
4.964	4045033	2823109	0.698	7.45	6 Aroclor 1248
5.043	513151	433640	0.845	0.87	
5.124	2047508	1874472	0.915	3.50	6 Aroclor 1248
5.186	959324	848129	0.884	1.64	
5.248	2392225	2109084	0.882	4.09	7 Aroclor 1254
5.297	1783464	1598685	0.896	3.05	
5.370	101707	95573	0.940	0.17	
5.395	288513	239205	0.829	0.49	
5.449	910872	844024	0.927	1.56	
5.493	1756777	1532651	0.872	3.01	7 Aroclor 1254
5.533	1240191	1111501	0.896	2.12	
5.575	136252	148519	1.090	0.23	
5.597	2886438	2593793	0.899	4.94	7 Aroclor 1254
5.661	50831	42421	0.835	0.08	
5.691	466904	415988	0.891	0.80	
5.761	296437	273619	0.923	0.50	
5.800	331652	258425	0.779	0.56	
5.827	433803	351586	0.810	0.74	
5.848	83212	131006	1.574	0.14	
5.877	3692235	3009378	0.815	6.32	
5.974	355915	244363	0.687	0.60	
6.017	143320	105348	0.735	0.24	
6.080	371211	352987	0.951	0.63	
6.112	2059054	1829492	0.889	3.52	7 Aroclor 1254
6.141	1920386	1658103	0.863	3.29	
6.255	467903	381002	0.814	0.80	
6.314	213985	225774	1.055	0.36	
6.328	248274	215330	0.867	0.42	
6.387	2659238	2246630	0.845	4.55	7 Aroclor 1254
6.422	361582	329494	0.911	0.61	
6.461	164570	147449	0.896	0.28	
6.520	146798	97412	0.664	0.25	
6.573	13434	16948	1.262	0.02	
6.597	342885	327302	0.955	0.58	
6.624	572791	541488	0.945	0.98	
6.647	144218	147111	1.020	0.24	
6.691	114217	103100	0.903	0.19	
6.748	36987	33826	0.915	0.06	
6.805	205926	177176	0.860	0.35	
6.847	181564	164587	0.906	0.31	
6.889	431241	386941	0.897	0.73	
6.930	157200	107667	0.685	0.26	
6.995	35831	23957	0.669	0.06	
7.031	235461	200928	0.853	0.40	
7.091	651302	594016	0.912	1.11	8 Aroclor 1260
7.120	70847	55646	0.785	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.159	24906	24750	0.994	0.04	
7.196	44134	37079	0.840	0.07	
7.206	72256	41820	0.579	0.12	
7.268	37053	19338	0.522	0.06	
7.337	368681	328329	0.891	0.63	8 Aroclor 1260
7.369	173184	120125	0.694	0.29	
7.427	112965	54103	0.479	0.19	
7.478	124246	118480	0.954	0.21	
7.530	229758	155738	0.678	0.39	8 Aroclor 1260
7.571	51037	29936	0.587	0.08	
7.635	44860	29158	0.650	0.07	
7.669	29934	22768	0.761	0.05	
7.706	56940	30823	0.541	0.09	
7.746	44710	43279	0.968	0.07	
7.781	74345	66690	0.897	0.12	
7.815	54390	37127	0.683	0.09	
7.838	53989	37697	0.698	0.09	
7.902	60144	32135	0.534	0.10	
7.988	140095	114197	0.815	0.24	8 Aroclor 1260
8.134	20392	11359	0.557	0.03	
8.362	92034	79083	0.859	0.15	
8.437	39841	28451	0.714	0.06	
8.658	2323752	2042042	0.879	3.98	$ 12 Decachlorobiphenyl
9.000	55432	38070	0.687	0.09	
9.527	74318	46534	0.626	0.12	
	58354300	50836293		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018006.D
Lab Smp Id: 40157948005 Client Smp ID: TD3-170828-01-SPSH-
Inj Date : 10-MAY-2018 08:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948005 x6,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6
Dil Factor: 6.00000
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	6.000	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

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.549	2.549	0.000	1999294	0.01660	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.

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	1842523	0.77243	2300	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1533855	0.36112	1100	0.00- 20.00	83.25	BA
4.897	4.898	-0.001	1885068	0.92540	2800	0.00- 20.00	102.31	BA
4.963	4.963	0.000	4045032	0.73850	2200	0.00- 20.00	219.54	BA
5.123	5.123	0.000	2047507	0.54120	1600	0.00- 20.00	111.13	BA
Average of Peak Concentrations =					2000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	2392225	0.42418	1300	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	1756777	0.37669	1100	0.00- 20.00	73.44	CO
5.596	5.596	0.000	2886437	0.33712	1000	0.00- 20.00	120.66	CO
6.111	6.113	-0.002	2059053	0.38756	1200	0.00- 20.00	86.07	CO
6.386	6.387	-0.001	2659237	0.36323	1100	0.00- 20.00	111.16	CO
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)	BA
7.090	7.090	0.000	651302	0.05534	160	0.00- 20.00	24.49	BA
7.337	7.338	-0.001	368681	0.06518	200	0.00- 20.00	13.86	BA
7.529	7.529	0.000	229757	0.06720	200	0.00- 20.00	8.64	BA
7.988	7.987	0.001	140095	0.04423	130	0.00- 20.00	5.27	BA
Average of Peak Concentrations =					170			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2323752	0.01745	52			

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\051018.b\051018006.D

Date : 10-MAY-2018 08:42

Client ID: TD3-170828-01-SPSH-

Instrument: 40GCSK.i

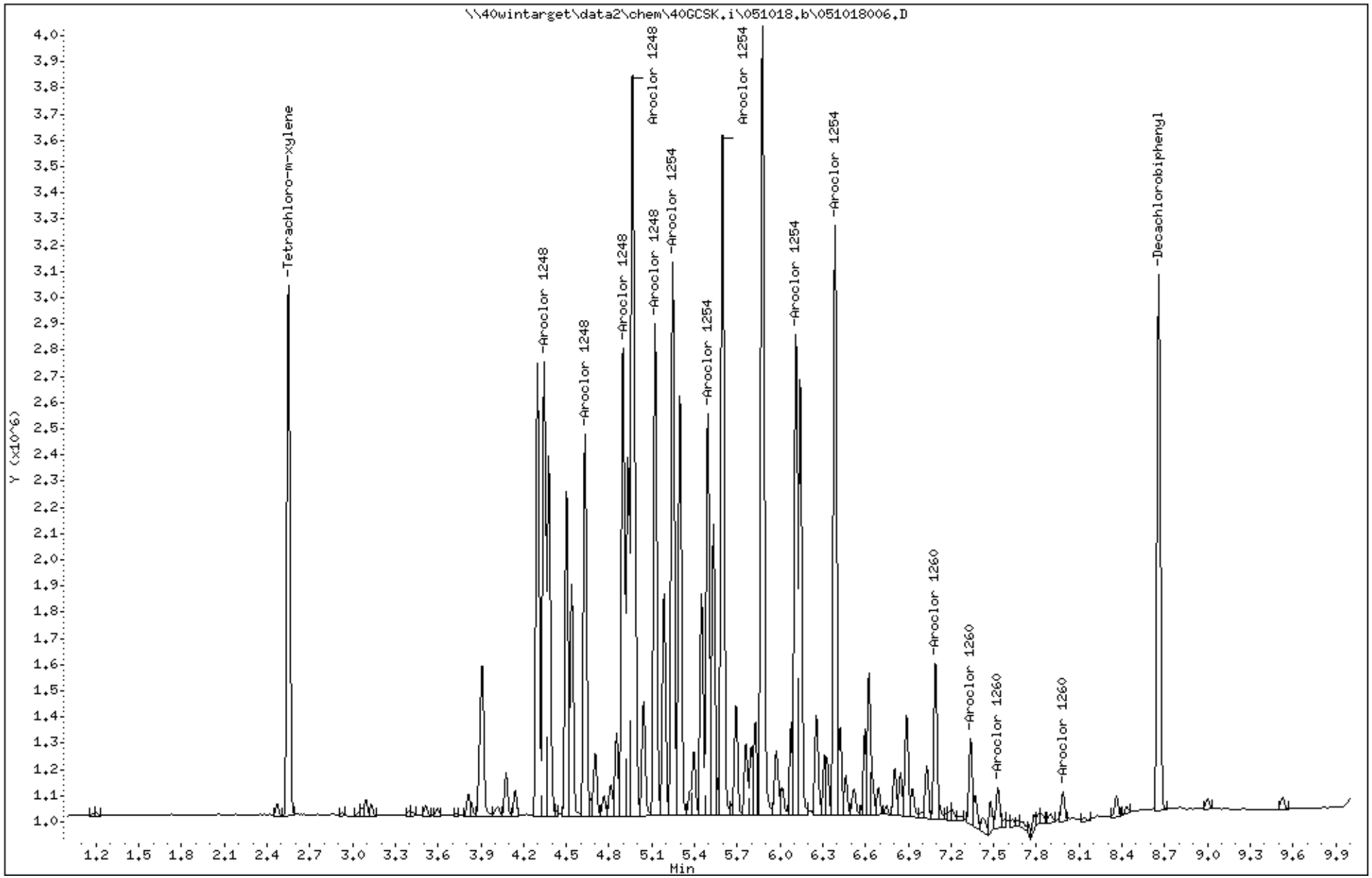
Sample Info: 40157948005 x6,

Volume Injected (uL): 1.0

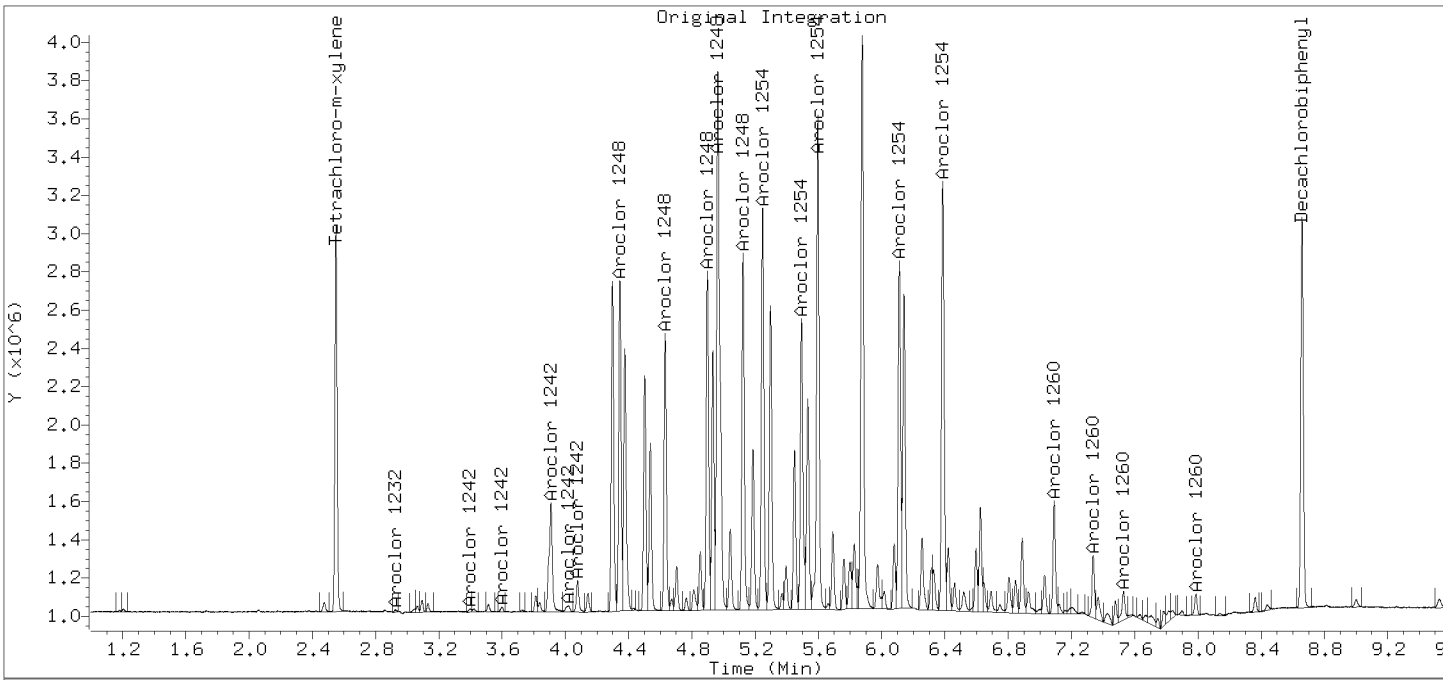
Operator: BLM

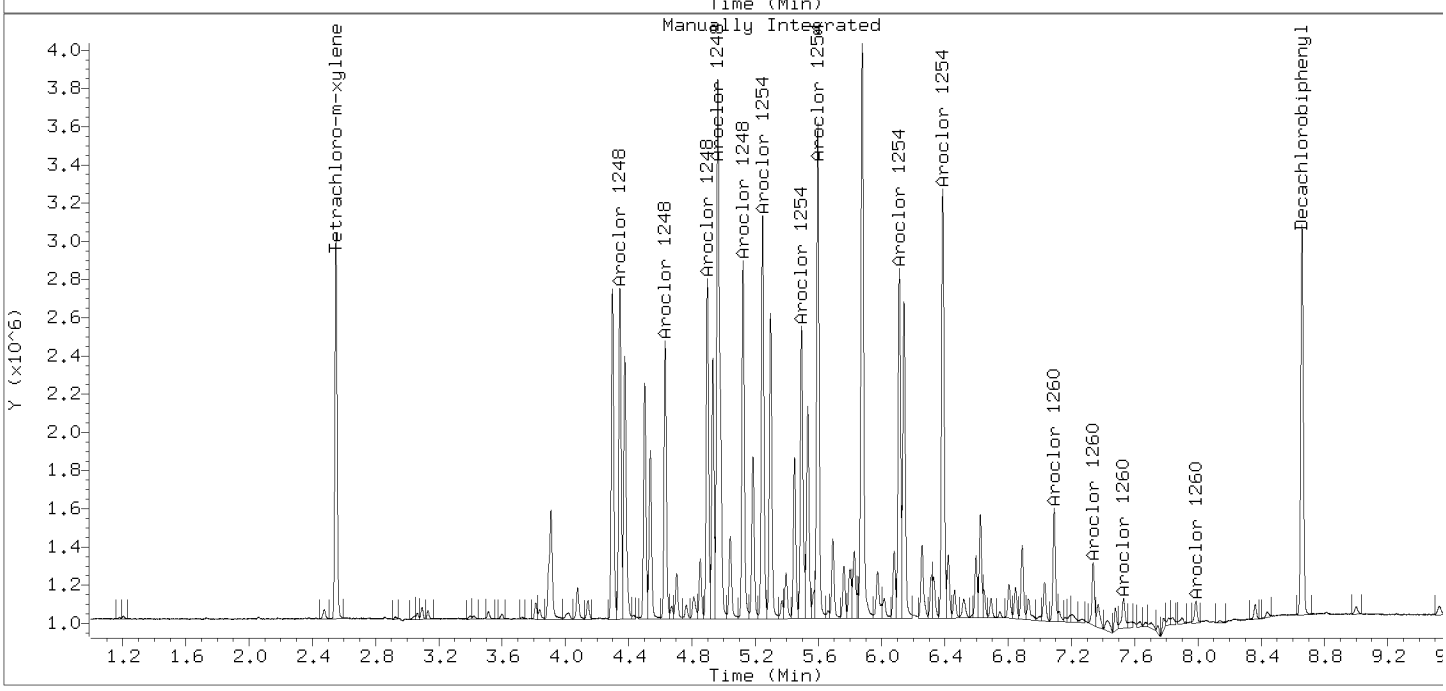
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-MAY-2018 08:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	20837	0	
Aroclor 1016	20837	0	
Aroclor 1016	20837	0	
Aroclor 1016	20837	0	
Aroclor 1016	20837	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	11510	0	
Aroclor 1232	11510	0	
Aroclor 1232	11510	0	
Aroclor 1232	11510	0	

Aroclor 1232	11510	0	
Aroclor 1242	20837	0	
Aroclor 1242	20837	0	
Aroclor 1242	20837	0	
Aroclor 1242	20837	0	
Aroclor 1242	20837	0	
Aroclor 1248	1825471	1842523	BA
Aroclor 1248	1825471	1842523	BA
Aroclor 1248	1825471	1842523	BA
Aroclor 1248	1825471	1842523	BA
Aroclor 1248	1825471	1842523	BA
Aroclor 1254	2355808	2392225	CO
Aroclor 1254	2355808	2392225	CO
Aroclor 1254	2355808	2392225	CO
Aroclor 1254	2355808	2392225	CO
Aroclor 1254	2355808	2392225	CO
Aroclor 1260	2651094	0	BA
Aroclor 1260	2651094	0	BA
Aroclor 1260	2651094	0	BA
Aroclor 1260	2651094	0	BA
Aroclor 1260	2651094	0	BA
Tetrachloro-m-xylene	1999294	1999294	
Decachlorobiphenyl	2323752	2323752	

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SAMPLE NO.

TD3-170828-01-BNMN-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40157948006
Date Analyzed: 05/08/2018 15:39
Lab File ID: 050718.B\050718082.D
Initial wt/vol: 5.6341 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)	<101	U
11104-28-2	PCB-1221 (Aroclor 1221)	<101	U
11141-16-5	PCB-1232 (Aroclor 1232)	<101	U
53469-21-9	PCB-1242 (Aroclor 1242)	<101	U
12672-29-6	PCB-1248 (Aroclor 1248)	2540	
11097-69-1	PCB-1254 (Aroclor 1254)	1490	
11096-82-5	PCB-1260 (Aroclor 1260)	216	J
1336-36-3	PCB, Total	4250	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718082.D
Lab Smp Id: 40157948006 Client Smp ID: TD3-170828-01-BNMN-
Inj Date : 08-MAY-2018 15:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948006 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: 82
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	5.634	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.474	18533	18170	0.980	0.03		
2.550	2168222	2209744	1.019	4.20	$ 2 Tetrachloro-m-xylene	
3.063	22426	18639	0.831	0.04		
3.094	35678	35525	0.996	0.06		
3.134	17320	14096	0.814	0.03		
3.392	10686	9068	0.849	0.02		
3.423	13537	12004	0.887	0.02		
3.514	17034	15712	0.922	0.03		
3.601	21899	20357	0.930	0.04		
3.813	89667	84481	0.942	0.17		
3.836	59066	50452	0.854	0.11		
3.910	781457	527015	0.674	1.51		
4.005	42554	23665	0.556	0.08		
4.079	190842	169924	0.890	0.37		
4.143	76067	60426	0.794	0.14		
4.298	1581909	1483298	0.938	3.06		
4.345	1565607	1515021	0.968	3.03	6 Aroclor 1248	BA
4.377	1415822	1197183	0.846	2.74		
4.502	1303032	1234569	0.947	2.52		
4.538	854605	772784	0.904	1.65		
4.631	1474483	1376969	0.934	2.86	6 Aroclor 1248	BA
4.673	56143	52225	0.930	0.10		
4.704	284416	258198	0.908	0.55		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.765	74031	62141	0.839	0.14	
4.811	145408	106220	0.730	0.28	
4.854	244232	232738	0.953	0.47	
4.898	1445238	1376884	0.953	2.80	6 Aroclor 1248
4.933	1224123	1186750	0.969	2.37	
4.964	3579664	2372497	0.663	7.45	6 Aroclor 1248
5.043	475007	409742	0.863	0.92	
5.124	1862282	1753878	0.942	3.61	6 Aroclor 1248
5.186	885304	794392	0.897	1.71	
5.247	2007994	1800508	0.897	3.89	7 Aroclor 1254
5.298	1431824	1262112	0.881	2.77	
5.369	112625	105510	0.937	0.21	
5.395	245869	207542	0.844	0.47	
5.450	806069	767501	0.952	1.56	
5.494	1554935	1360645	0.875	3.01	7 Aroclor 1254
5.533	1039132	944107	0.909	2.01	
5.570	132559	136763	1.032	0.25	
5.596	2768580	2501289	0.903	5.37	7 Aroclor 1254
5.660	42518	36255	0.853	0.08	
5.691	460387	420452	0.913	0.89	
5.761	293387	268623	0.916	0.56	
5.799	328540	251448	0.765	0.63	
5.827	342275	281188	0.822	0.66	
5.877	3126968	2468457	0.789	6.06	
5.974	257442	202461	0.786	0.49	
6.015	116985	87487	0.748	0.22	
6.079	303207	289210	0.954	0.58	
6.112	1808988	1566964	0.866	3.50	7 Aroclor 1254
6.142	1580888	1360857	0.861	3.06	
6.255	451877	352190	0.779	0.87	
6.313	192618	191530	0.994	0.37	
6.329	210353	187000	0.889	0.40	
6.386	2401219	2059241	0.858	4.65	7 Aroclor 1254
6.421	329761	300414	0.911	0.63	
6.461	159334	140866	0.884	0.30	
6.521	123009	84297	0.685	0.23	
6.597	311115	290975	0.935	0.60	
6.624	710649	538669	0.758	1.37	
6.690	94869	83873	0.884	0.18	
6.747	39642	36785	0.928	0.07	
6.806	231110	208836	0.904	0.44	
6.846	173460	157518	0.908	0.33	
6.888	367594	333325	0.907	0.71	
6.928	119954	89263	0.744	0.23	
6.999	26806	19770	0.738	0.05	
7.031	138731	120437	0.868	0.26	
7.090	530036	482096	0.910	1.02	8 Aroclor 1260
7.119	54386	44644	0.821	0.10	
7.156	24163	18998	0.786	0.04	
7.207	64795	32298	0.498	0.12	
7.337	325935	292344	0.897	0.63	8 Aroclor 1260
7.367	119915	91380	0.762	0.23	
7.422	59364	29355	0.494	0.11	
7.476	116143	113931	0.981	0.22	
7.528	194377	143517	0.738	0.37	8 Aroclor 1260
7.628	24163	18471	0.764	0.04	
7.694	20731	13085	0.631	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.747	26648	30395	1.141	0.05	
7.780	70121	62156	0.886	0.13	
7.813	47058	36850	0.783	0.09	
7.838	44568	28417	0.638	0.08	
7.887	38143	21905	0.574	0.07	
7.985	112813	93849	0.832	0.21	8 Aroclor 1260
8.052	20360	13606	0.668	0.03	
8.135	16385	13291	0.811	0.03	
8.360	85732	76337	0.890	0.16	
8.440	36808	24119	0.655	0.07	
8.657	2496758	2088585	0.837	4.84	$ 12 Decachlorobiphenyl
9.002	55654	38416	0.690	0.10	
9.525	81856	52031	0.636	0.15	
	51546481	44829211		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718082.D
Lab Smp Id: 40157948006 Client Smp ID: TD3-170828-01-BNMN-
Inj Date : 08-MAY-2018 15:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948006 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: 82
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	5.634	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		
2.550	2.549	0.001	2168221	0.01800	80			
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			
4.345	4.343	0.002	1565607	0.65634	2900	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1474482	0.34715	1500	0.00- 20.00	94.18	BA
4.898	4.898	0.000	1445238	0.70948	3100	0.00- 20.00	92.31	BA
4.964	4.963	0.001	3579664	0.65353	2900	0.00- 20.00	228.64	BA
5.124	5.123	0.001	1862282	0.49224	2200	0.00- 20.00	118.95	BA
Average of Peak Concentrations =					2500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	2007993	0.35605	1600	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	1554935	0.33341	1500	0.00- 20.00	77.44	BA
5.596	5.596	0.000	2768579	0.32336	1400	0.00- 20.00	137.88	BA
6.112	6.113	-0.001	1808987	0.34049	1500	0.00- 20.00	90.09	BA
6.386	6.387	-0.001	2401218	0.32799	1400	0.00- 20.00	119.58	BA
Average of Peak Concentrations =					1500			
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	530036	0.04504	200	0.00- 20.00	22.07	BA
7.336	7.338	-0.002	325934	0.05762	260	0.00- 20.00	13.57	BA
7.528	7.529	-0.001	194377	0.05685	250	0.00- 20.00	8.09	BA
7.984	7.987	-0.003	112813	0.03562	160	0.00- 20.00	4.70	BA
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2496758	0.01875	83			

QC Flag Legend

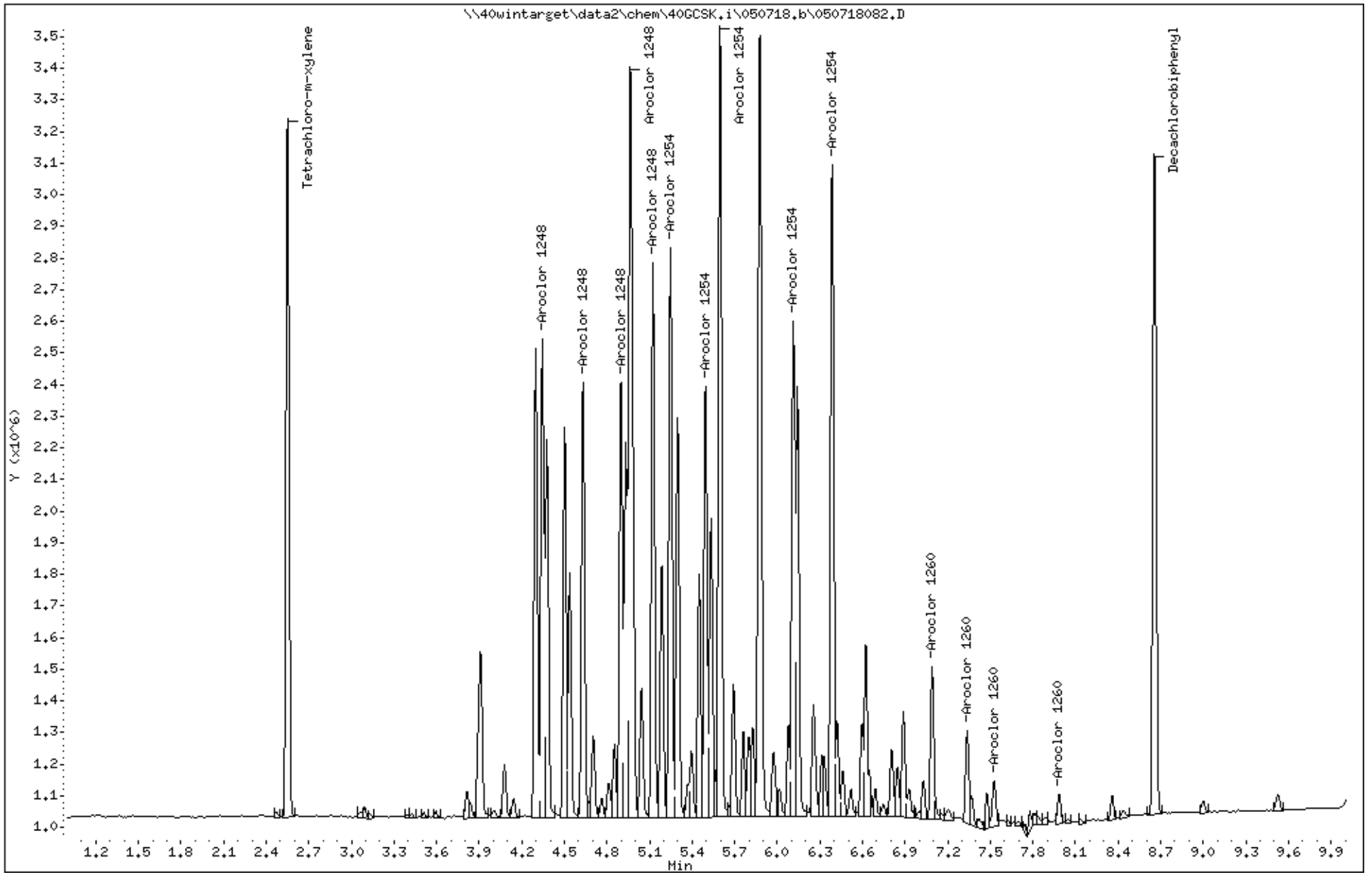
M - Compound response manually integrated.

Review Codes Legend

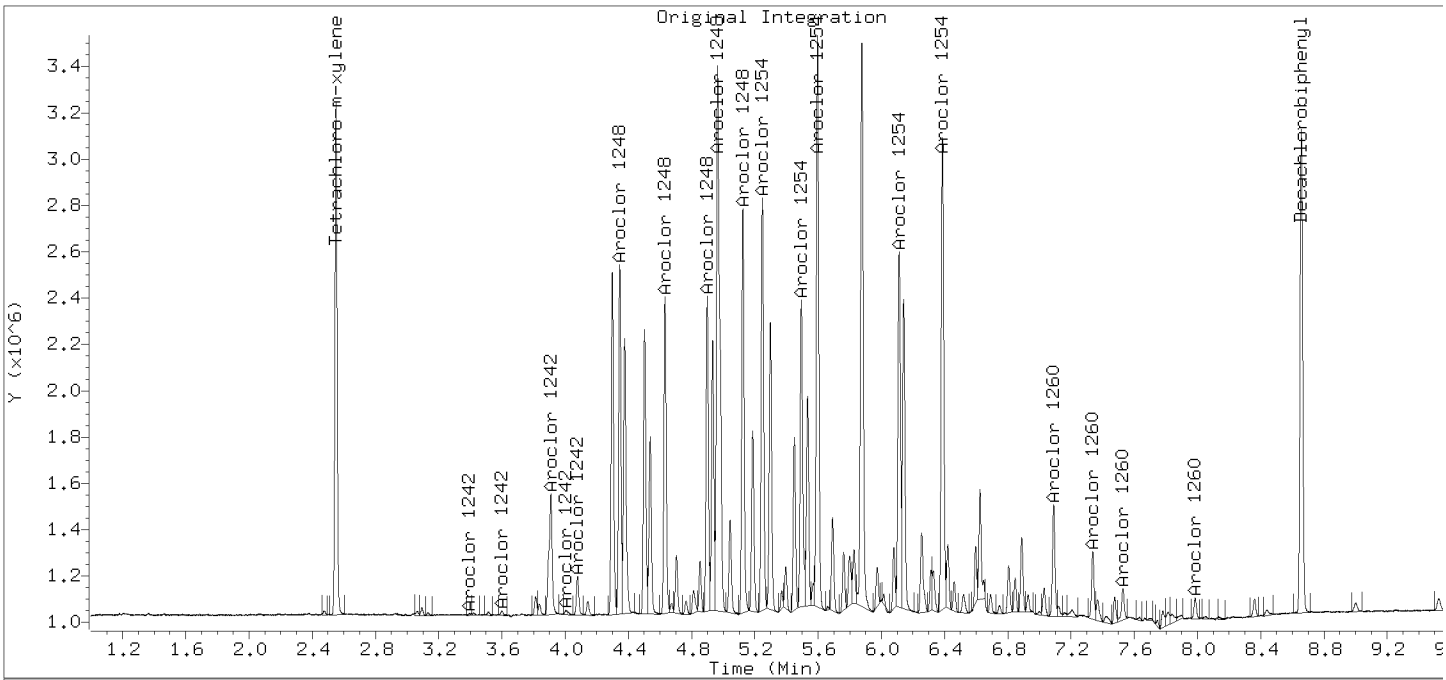
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

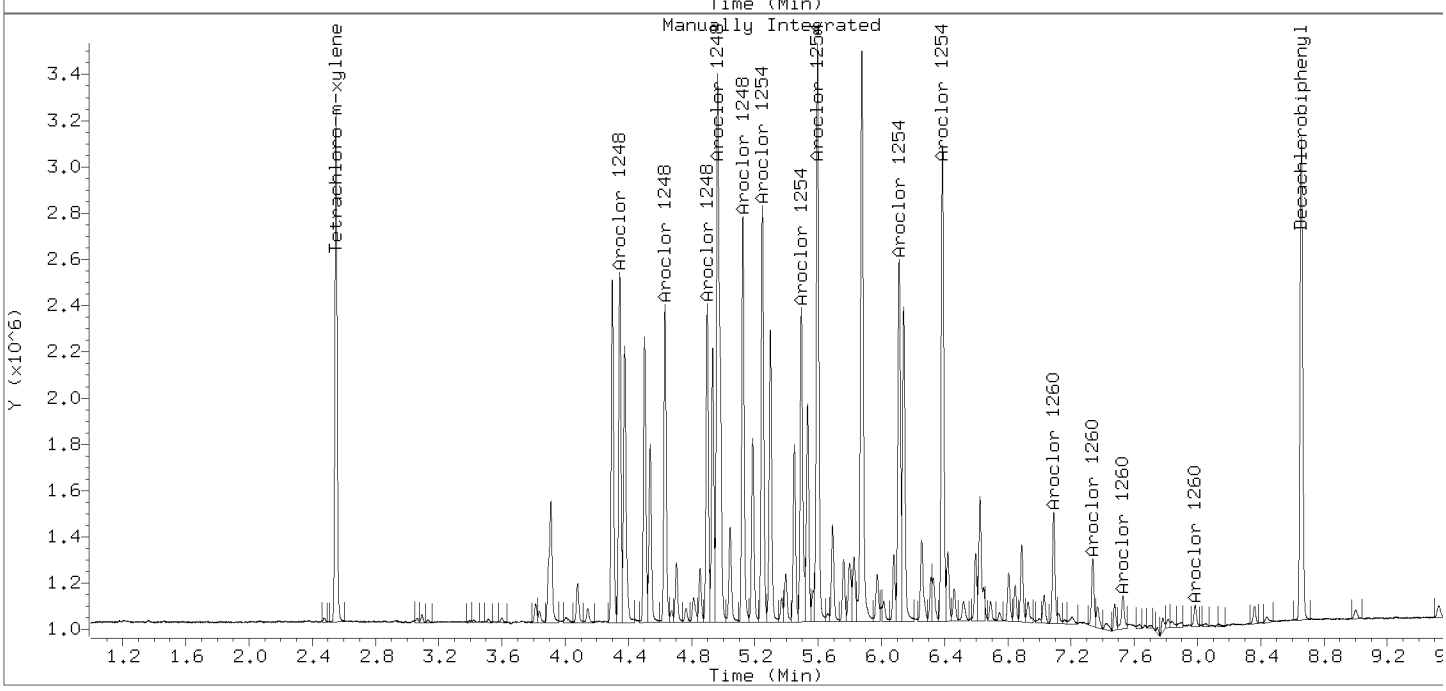
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718082.D
Date : 08-MAY-2018 15:39
Client ID: TD3-170828-01-BNMN-
Sample Info: 40157948006 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718082.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 15:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	10685	0	
Aroclor 1016	10685	0	
Aroclor 1016	10685	0	
Aroclor 1016	10685	0	
Aroclor 1016	10685	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	10685	0	
Aroclor 1242	10685	0	
Aroclor 1242	10685	0	
Aroclor 1242	10685	0	
Aroclor 1242	10685	0	
Aroclor 1248	1547287	1565607	BA
Aroclor 1248	1547287	1565607	BA
Aroclor 1248	1547287	1565607	BA
Aroclor 1248	1547287	1565607	BA
Aroclor 1248	1547287	1565607	BA
Aroclor 1254	1942172	2007993	BA
Aroclor 1254	1942172	2007993	BA
Aroclor 1254	1942172	2007993	BA
Aroclor 1254	1942172	2007993	BA
Aroclor 1254	1942172	2007993	BA
Aroclor 1260	2343325	0	BA
Aroclor 1260	2343325	0	BA
Aroclor 1260	2343325	0	BA
Aroclor 1260	2343325	0	BA
Aroclor 1260	2343325	0	BA
Tetrachloro-m-xylene	2168221	2168221	
Decachlorobiphenyl	2496758	2496758	

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SAMPLE NO.

TD2-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40157948007
Date Analyzed: 05/07/2018 22:18
Lab File ID: 050718.B\050718035.D
Initial wt/vol: 9.9868 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)	<57.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	1190	
11097-69-1	PCB-1254 (Aroclor 1254)	685	
11096-82-5	PCB-1260 (Aroclor 1260)	120	J
1336-36-3	PCB, Total	2000	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718035.D
Lab Smp Id: 40157948007 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948007 x5,
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: 35
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	9.987	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.820	13163	12118	0.921	0.02		
2.475	41460	37893	0.914	0.08		
2.550	2492398	2562737	1.028	5.17	$ 2 Tetrachloro-m-xylene	
2.864	10671	8649	0.810	0.02		
2.925	11071	10857	0.981	0.02		
3.047	26739	24705	0.924	0.05		
3.065	40578	40637	1.001	0.08		
3.093	66185	67323	1.017	0.13		
3.132	30423	30163	0.991	0.06		
3.516	27674	25312	0.915	0.05		
3.599	14778	12192	0.825	0.03		
3.724	28066	24765	0.882	0.05		
3.813	224434	222797	0.993	0.46		
3.837	97468	88206	0.905	0.20		
3.909	1327964	765428	0.576	2.75		
4.006	55833	31097	0.557	0.11		
4.078	205584	183326	0.892	0.42		
4.143	94486	86029	0.910	0.19		
4.298	1705901	1597864	0.937	3.54		
4.344	1686572	1605805	0.952	3.50	6 Aroclor 1248	BA
4.376	1445071	1268198	0.878	2.99		
4.431	37991	24128	0.635	0.07		
4.501	965208	904615	0.937	2.00		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.537	692339	608666	0.879	1.43	
4.631	1206877	1136708	0.942	2.50	6 Aroclor 1248
4.672	113508	101936	0.898	0.23	
4.702	197919	176265	0.891	0.41	
4.766	110686	92697	0.837	0.22	
4.817	140877	94744	0.673	0.29	
4.853	255262	238379	0.934	0.52	
4.898	1146244	1085202	0.947	2.37	6 Aroclor 1248
4.932	1115466	1052167	0.943	2.31	
4.964	2669460	1553470	0.582	5.53	6 Aroclor 1248
5.042	472179	411452	0.871	0.97	
5.123	1278788	1182838	0.925	2.65	6 Aroclor 1248
5.186	860793	783655	0.910	1.78	
5.247	1648106	1470426	0.892	3.42	7 Aroclor 1254
5.298	1177641	1034490	0.878	2.44	
5.369	92984	90560	0.974	0.19	
5.395	284198	229247	0.807	0.58	
5.449	580020	540762	0.932	1.20	
5.493	1236256	1105412	0.894	2.56	7 Aroclor 1254
5.534	967751	842928	0.871	2.00	
5.567	140630	151526	1.077	0.29	
5.596	2176301	1930657	0.887	4.51	7 Aroclor 1254
5.661	60507	50895	0.841	0.12	
5.691	316335	285513	0.903	0.65	
5.761	383281	352752	0.920	0.79	
5.796	311622	232196	0.745	0.64	
5.827	376252	269854	0.717	0.78	
5.876	2593880	2034559	0.784	5.38	
5.973	244032	185062	0.758	0.50	
6.015	176314	117744	0.668	0.36	
6.079	347202	307583	0.886	0.72	
6.112	1449629	1255734	0.866	3.00	7 Aroclor 1254
6.141	1379422	1186449	0.860	2.86	
6.254	387500	282017	0.728	0.80	
6.313	148439	155870	1.050	0.30	
6.328	206408	167656	0.812	0.42	
6.386	2085134	1789927	0.858	4.32	7 Aroclor 1254
6.419	271754	243000	0.894	0.56	
6.460	131745	114126	0.866	0.27	
6.518	183577	141674	0.772	0.38	
6.596	382926	356291	0.930	0.79	
6.623	455433	412746	0.906	0.94	
6.645	133366	133056	0.998	0.27	
6.689	85262	72811	0.854	0.17	
6.746	44720	35526	0.794	0.09	
6.804	190925	169565	0.888	0.39	
6.845	186997	170872	0.914	0.38	
6.887	335554	292461	0.872	0.69	
6.927	122304	96793	0.791	0.25	
6.998	24899	21924	0.881	0.05	
7.030	201441	178703	0.887	0.41	
7.090	468081	422984	0.904	0.97	8 Aroclor 1260
7.122	62684	43969	0.701	0.13	
7.201	83591	43119	0.516	0.17	
7.263	36387	17296	0.475	0.07	
7.335	269701	243571	0.903	0.55	8 Aroclor 1260
7.367	136340	92880	0.681	0.28	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.427	86429	47258	0.547	0.17	
7.475	133786	127161	0.950	0.27	
7.527	218758	151468	0.692	0.45	8 Aroclor 1260
7.632	45105	28651	0.635	0.09	
7.667	40490	21559	0.532	0.08	
7.746	32751	38079	1.163	0.06	
7.779	63221	59396	0.939	0.13	
7.815	53728	44310	0.825	0.11	
7.837	116634	64933	0.557	0.24	
7.900	83922	45669	0.544	0.17	
7.984	128805	103145	0.801	0.26	8 Aroclor 1260
8.042	43133	19057	0.442	0.08	
8.361	93742	82143	0.876	0.19	
8.436	122383	84597	0.691	0.25	
8.656	2825161	2430572	0.860	6.37	$ 12 Decachlorobiphenyl
8.811	13674	13000	0.951	0.02	
8.881	10079	6025	0.598	0.02	
8.999	249869	141491	0.566	0.51	
9.525	337219	168723	0.500	0.69	
	48186542	41203446		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718035.D
Lab Smp Id: 40157948007 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948007 x5,
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: 35
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	9.987	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

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.550	2.549	0.001	2492398	0.02069	52			

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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

Operator disabled compound identification.

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	1686571	0.70705	1800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1206876	0.28414	710	0.00- 20.00	71.56	BA
4.898	4.898	0.000	1146244	0.56270	1400	0.00- 20.00	67.96	BA
4.964	4.963	0.001	2669459	0.48736	1200	0.00- 20.00	158.28	BA
5.123	5.123	0.000	1278788	0.33801	850	0.00- 20.00	75.82	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1648106	0.29224	730	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	1236256	0.26508	660	0.00- 20.00	75.01	BA
5.595	5.596	-0.001	2176301	0.25418	640	0.00- 20.00	132.05	BA
6.111	6.113	-0.002	1449629	0.27285	680	0.00- 20.00	87.96	BA
6.386	6.387	-0.001	2085134	0.28481	710	0.00- 20.00	126.52	BA
Average of Peak Concentrations =					680			
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	468081	0.03977	100	0.00- 20.00	22.45	BA
7.335	7.338	-0.003	269701	0.04768	120	0.00- 20.00	12.93	BA
7.526	7.529	-0.003	218758	0.06399	160	0.00- 20.00	10.49	BA
7.983	7.987	-0.004	128805	0.04067	100	0.00- 20.00	6.18	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2825160	0.02121	53			

QC Flag Legend

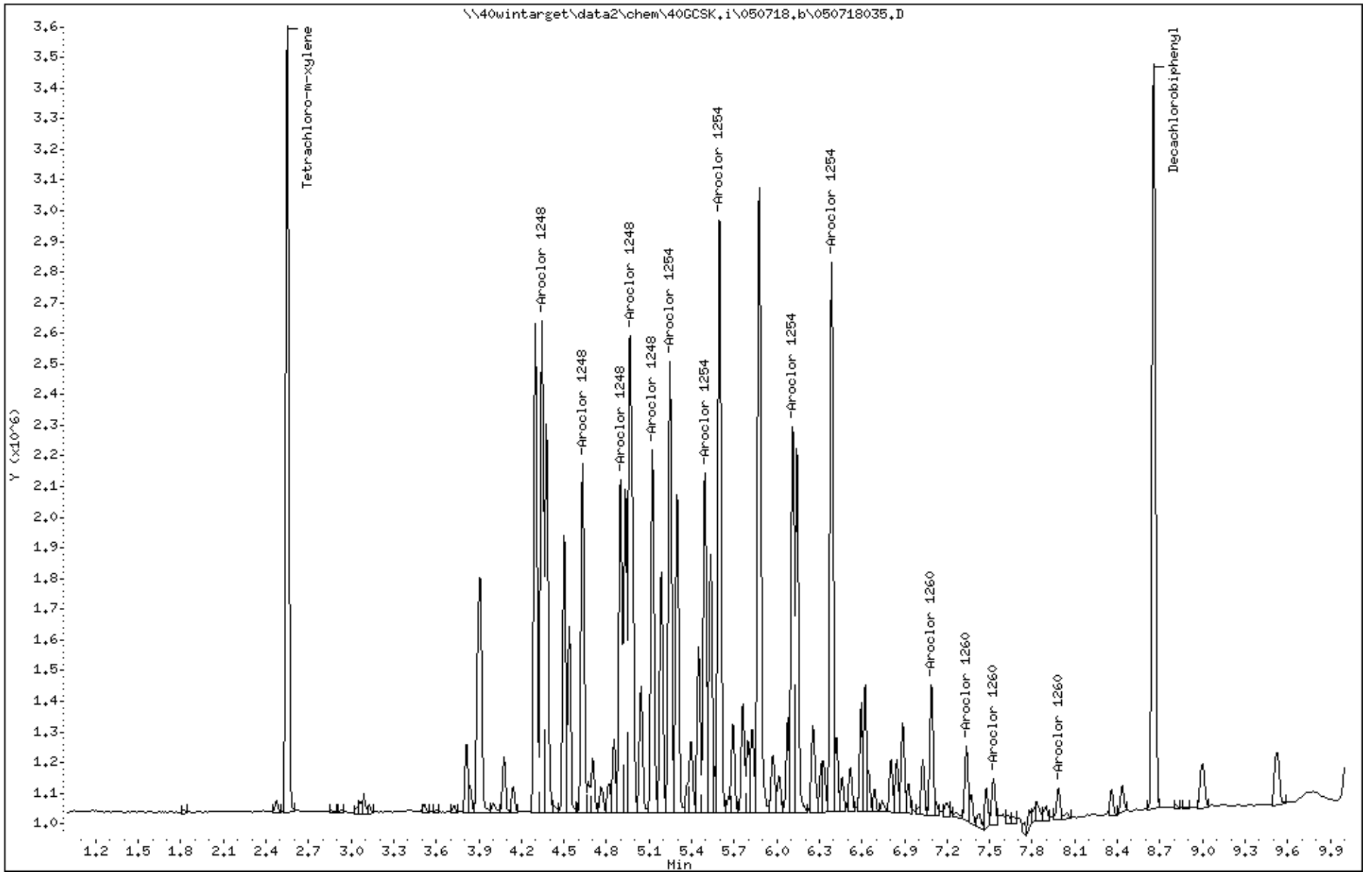
M - Compound response manually integrated.

Review Codes Legend

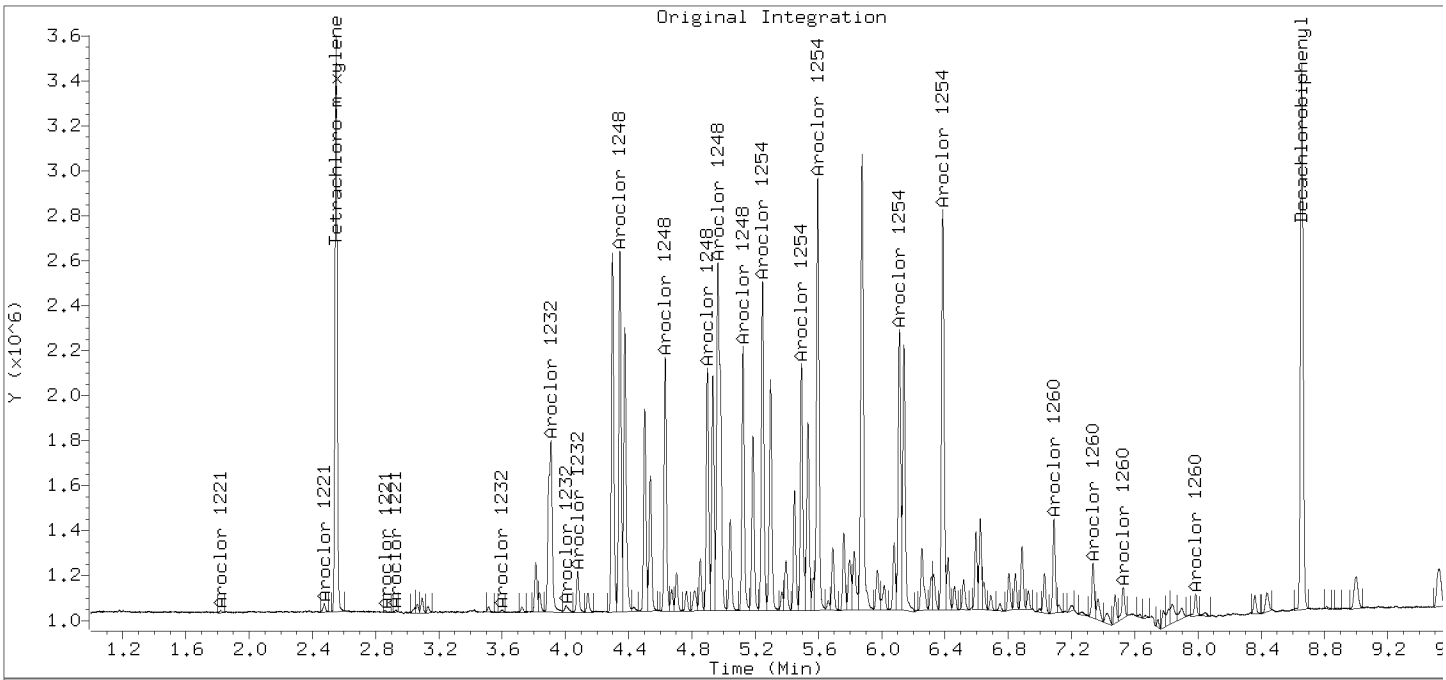
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

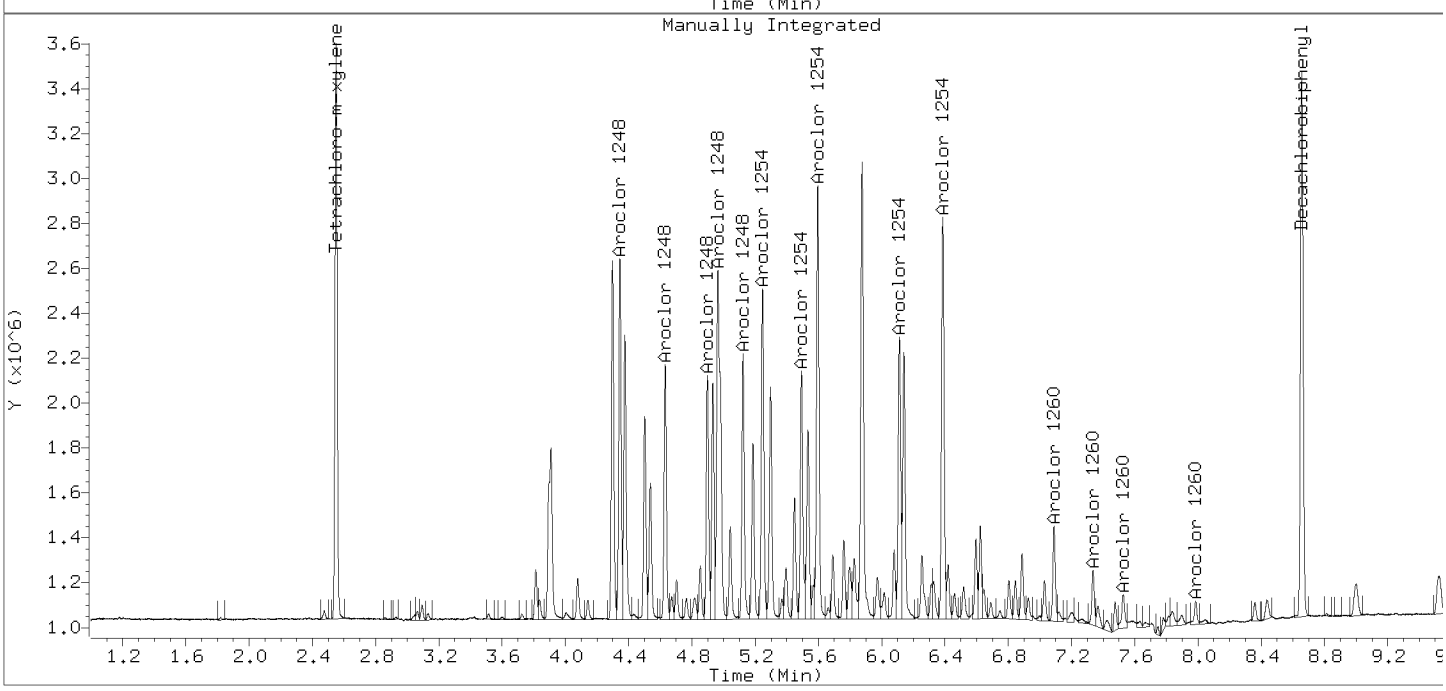
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718035.D
Date : 07-MAY-2018 22:18
Client ID: TD2-170828-01-SPSH-
Sample Info: 40157948007 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 22:18 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948007





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	13163	0	
Aroclor 1221	13163	0	
Aroclor 1221	13163	0	
Aroclor 1221	13163	0	
Aroclor 1221	13163	0	
Aroclor 1232	11071	0	
Aroclor 1232	11071	0	
Aroclor 1232	11071	0	
Aroclor 1232	11071	0	

Aroclor 1232	11071	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	1676829	1686571	BA
Aroclor 1248	1676829	1686571	BA
Aroclor 1248	1676829	1686571	BA
Aroclor 1248	1676829	1686571	BA
Aroclor 1248	1676829	1686571	BA
Aroclor 1254	1625349	1648106	BA
Aroclor 1254	1625349	1648106	BA
Aroclor 1254	1625349	1648106	BA
Aroclor 1254	1625349	1648106	BA
Aroclor 1254	1625349	1648106	BA
Aroclor 1260	2057627	0	BA
Aroclor 1260	2057627	0	BA
Aroclor 1260	2057627	0	BA
Aroclor 1260	2057627	0	BA
Aroclor 1260	2057627	0	BA
Tetrachloro-m-xylene	2492398	2492398	
Decachlorobiphenyl	2825160	2825160	

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SAMPLE NO.

TD2-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40157948008
Date Analyzed: 05/07/2018 15:57
Lab File ID: 050718.B\050718011.D
Initial wt/vol: 10.0142 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)	353	
11097-69-1	PCB-1254 (Aroclor 1254)	211	
11096-82-5	PCB-1260 (Aroclor 1260)	46.5	J
1336-36-3	PCB, Total	611	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718011.D
Lab Smp Id: 40157948008 Client Smp ID: TD2-170828-01-GOSH-
Inj Date : 07-MAY-2018 15:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948008 x2,
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: 11
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	10.014	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	12088	11628	0.962	0.02		
1.732	11414	9627	0.843	0.02		
1.824	330053	332679	1.008	0.71		
2.005	10929	8288	0.758	0.02		
2.428	16384	11232	0.686	0.03		
2.476	135595	108760	0.802	0.29		
2.550	5193764	5275471	1.016	11.28	$ 2 Tetrachloro-m-xylene	
2.860	30431	20580	0.676	0.06		
2.925	37366	37406	1.001	0.08		
3.045	28135	26049	0.926	0.06		
3.063	54177	50478	0.932	0.11		
3.094	97086	96298	0.992	0.21		
3.130	153364	137455	0.896	0.33		
3.260	23345	17267	0.740	0.05		
3.395	119446	118463	0.992	0.25		
3.422	100073	99720	0.996	0.21		
3.514	133277	125937	0.945	0.28		
3.599	166137	144018	0.867	0.36		
3.730	25391	19649	0.774	0.05		
3.814	107270	103740	0.967	0.23		
3.837	65433	53733	0.821	0.14		
3.909	796085	497888	0.625	1.72		
4.021	221383	160254	0.724	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.078	191187	168726	0.883	0.41	
4.143	125038	112447	0.899	0.27	
4.219	29186	27598	0.946	0.06	
4.298	1074522	994967	0.926	2.33	
4.345	1120247	1055722	0.942	2.43	6 Aroclor 1248
4.376	1107126	892065	0.806	2.40	
4.502	723303	692892	0.958	1.57	
4.538	553110	493450	0.892	1.20	
4.599	918041	969275	1.056	1.99	
4.631	1035062	949457	0.917	2.24	6 Aroclor 1248
4.672	77602	66771	0.860	0.16	
4.703	162035	149610	0.923	0.35	
4.765	60395	50490	0.836	0.13	
4.814	88673	57223	0.645	0.19	
4.853	178008	168205	0.945	0.38	
4.898	883388	844035	0.955	1.91	6 Aroclor 1248
4.932	749599	707188	0.943	1.62	
4.964	2016482	1300748	0.645	4.38	6 Aroclor 1248
5.042	317758	266914	0.840	0.69	
5.083	12143	13656	1.125	0.02	
5.123	957702	886776	0.926	2.08	6 Aroclor 1248
5.186	577329	511655	0.886	1.25	
5.247	1285188	1142010	0.889	2.79	7 Aroclor 1254
5.298	1058873	946851	0.894	2.30	
5.371	74432	67774	0.911	0.16	
5.396	193627	159168	0.822	0.42	
5.448	417742	377959	0.905	0.90	
5.493	917456	810717	0.884	1.99	7 Aroclor 1254
5.535	950668	834845	0.878	2.06	
5.572	77008	86918	1.129	0.16	
5.597	1627966	1405004	0.863	3.53	7 Aroclor 1254
5.661	57295	38871	0.678	0.12	
5.692	268856	232943	0.866	0.58	
5.762	225865	210221	0.931	0.49	
5.799	196860	150871	0.766	0.42	
5.827	307026	217589	0.709	0.66	
5.876	2108565	1680546	0.797	4.58	
5.974	212810	133055	0.625	0.46	
6.016	96830	75646	0.781	0.21	
6.079	266817	243180	0.911	0.57	
6.111	1072183	918144	0.856	2.32	7 Aroclor 1254
6.141	1221687	1092732	0.894	2.65	
6.255	285188	207795	0.729	0.61	
6.315	104614	123303	1.179	0.22	
6.329	194082	156742	0.808	0.42	
6.386	1761466	1499810	0.851	3.82	7 Aroclor 1254
6.420	214769	187123	0.871	0.46	
6.459	98248	78841	0.802	0.21	
6.517	119901	82769	0.690	0.26	
6.570	10984	13335	1.214	0.02	
6.596	292664	272089	0.930	0.63	
6.623	405018	361371	0.892	0.87	
6.647	108643	114148	1.051	0.23	
6.693	58437	51930	0.889	0.12	
6.732	12595	15165	1.204	0.02	
6.746	30130	27676	0.919	0.06	
6.804	151295	132152	0.873	0.32	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.844	175134	142618	0.814	0.38	
6.887	260091	226704	0.872	0.56	
6.928	123213	72406	0.588	0.26	
6.988	35641	25612	0.719	0.07	
7.029	279534	232593	0.832	0.60	
7.090	465386	408337	0.877	1.01	8 Aroclor 1260
7.121	45135	49924	1.106	0.09	
7.180	36652	28276	0.771	0.07	
7.209	80291	39640	0.494	0.17	
7.259	41890	24502	0.585	0.09	
7.336	254748	220200	0.864	0.55	8 Aroclor 1260
7.368	143246	95514	0.667	0.31	
7.422	88847	47007	0.529	0.19	
7.475	107519	103077	0.959	0.23	
7.527	203532	138158	0.679	0.44	8 Aroclor 1260
7.666	32467	25262	0.778	0.07	
7.744	37558	37272	0.992	0.08	
7.782	75314	58391	0.775	0.16	
7.812	65601	47096	0.718	0.14	
7.899	86069	42879	0.498	0.18	
7.984	133095	98642	0.741	0.28	8 Aroclor 1260
8.048	25484	14834	0.582	0.05	
8.092	10551	10325	0.979	0.02	
8.137	17795	14129	0.794	0.03	
8.223	10928	8584	0.786	0.02	
8.359	103350	89008	0.861	0.22	
8.467	28770	14626	0.508	0.06	
8.657	5632683	4834540	0.858	12.76	$ 12 Decachlorobiphenyl
8.807	12690	11739	0.925	0.02	
8.998	13270	12767	0.962	0.02	
9.141	18125	13144	0.725	0.03	
9.253	33946	30236	0.891	0.07	
9.296	12042	8091	0.672	0.02	
9.525	28307	16702	0.590	0.06	
	46031251	40238618		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718011.D
Lab Smp Id: 40157948008 Client Smp ID: TD2-170828-01-GOSH-
Inj Date : 07-MAY-2018 15:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948008 x2,
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: 11
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	10.014	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	5193764	0.04312		43		

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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.

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			
4.345	4.343	0.002	1120247	0.46964	470	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1035062	0.24369	240	0.00- 20.00	92.40	BA
4.898	4.898	0.000	883387	0.43366	430	0.00- 20.00	78.86	BA
4.964	4.963	0.001	2016482	0.36815	370	0.00- 20.00	180.00	BA
5.123	5.123	0.000	957701	0.25314	250	0.00- 20.00	85.49	BA
Average of Peak Concentrations =					350			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1285188	0.22789	230	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	917455	0.19672	200	0.00- 20.00	71.39	CO
5.597	5.596	0.001	1627966	0.19014	190	0.00- 20.00	126.67	CO
6.111	6.113	-0.002	1072183	0.20181	200	0.00- 20.00	83.43	CO
6.385	6.387	-0.002	1761465	0.24060	240	0.00- 20.00	137.06	CO
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)	CO
7.089	7.090	-0.001	465386	0.03954	39	0.00- 20.00	28.94	CO
7.335	7.338	-0.003	254748	0.04504	45	0.00- 20.00	14.46	CO
7.527	7.529	-0.002	203531	0.05953	59	0.00- 20.00	11.55	CO
7.983	7.987	-0.004	133095	0.04202	42	0.00- 20.00	7.56	CO
Average of Peak Concentrations =					46			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	5632682	0.04229	42			

QC Flag Legend

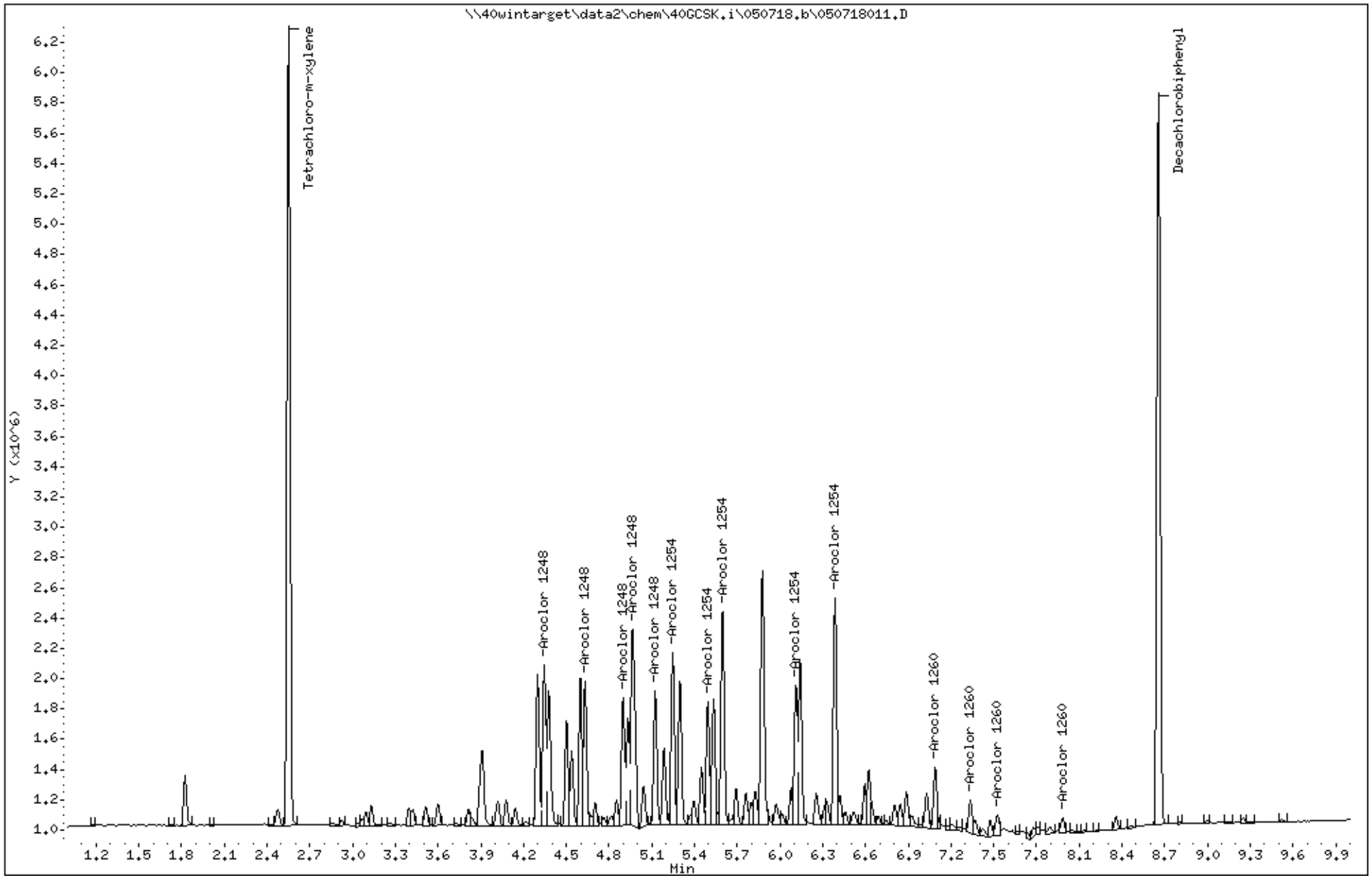
M - Compound response manually integrated.

Review Codes Legend

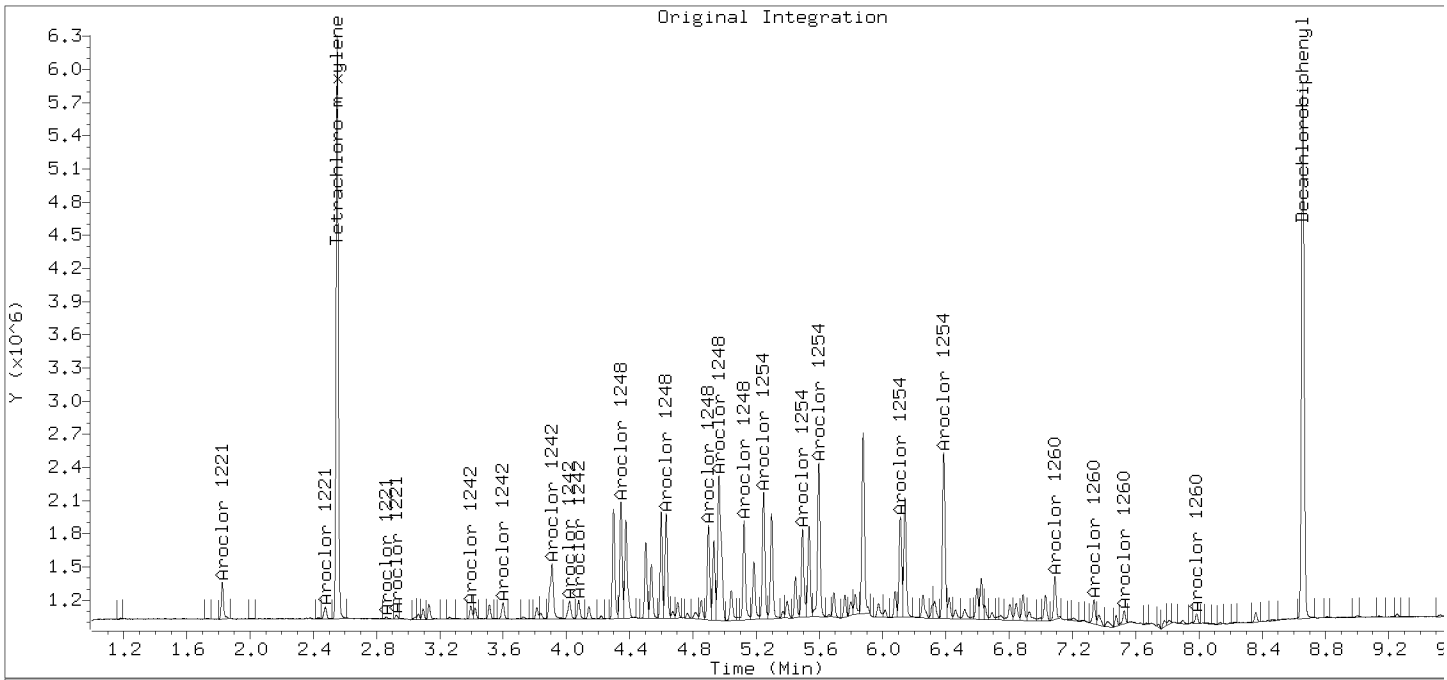
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

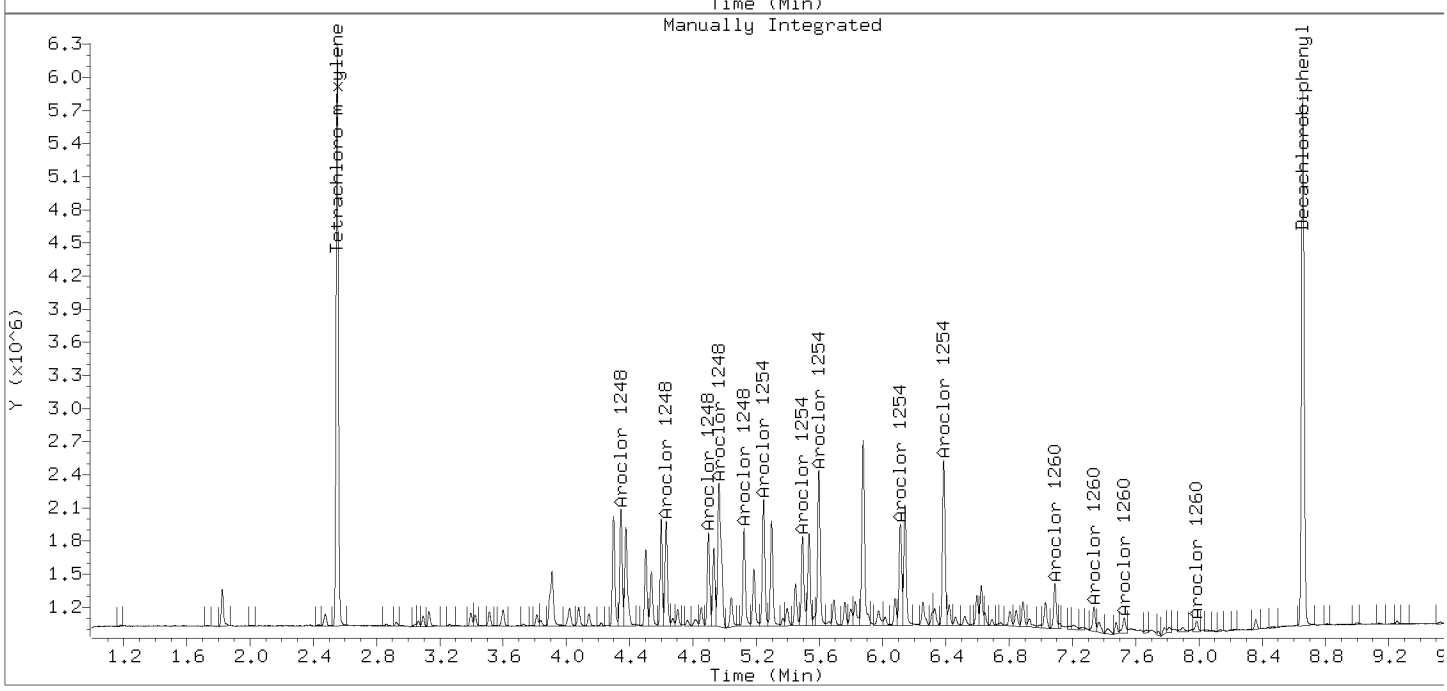
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718011.D
Date : 07-MAY-2018 15:57
Client ID: TD2-170828-01-GOSH-
Sample Info: 40157948008 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 15:57 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	119446	0	
Aroclor 1016	119446	0	
Aroclor 1016	119446	0	
Aroclor 1016	119446	0	
Aroclor 1016	119446	0	
Aroclor 1221	330053	0	
Aroclor 1221	330053	0	
Aroclor 1221	330053	0	
Aroclor 1221	330053	0	
Aroclor 1221	330053	0	
Aroclor 1232	37366	0	
Aroclor 1232	37366	0	
Aroclor 1232	37366	0	
Aroclor 1232	37366	0	

Aroclor 1232	37366	0	
Aroclor 1242	119446	0	
Aroclor 1242	119446	0	
Aroclor 1242	119446	0	
Aroclor 1242	119446	0	
Aroclor 1242	119446	0	
Aroclor 1248	1106504	1120247	BA
Aroclor 1248	1106504	1120247	BA
Aroclor 1248	1106504	1120247	BA
Aroclor 1248	1106504	1120247	BA
Aroclor 1248	1106504	1120247	BA
Aroclor 1254	1294200	1285188	CO
Aroclor 1254	1294200	1285188	CO
Aroclor 1254	1294200	1285188	CO
Aroclor 1254	1294200	1285188	CO
Aroclor 1254	1294200	1285188	CO
Aroclor 1260	1761633	0	CO
Aroclor 1260	1761633	0	CO
Aroclor 1260	1761633	0	CO
Aroclor 1260	1761633	0	CO
Aroclor 1260	1761633	0	CO
Tetrachloro-m-xylene	5193764	5193764	
Decachlorobiphenyl	5632682	5632682	

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SAMPLE NO.

TD1-170828-01-GOSH-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40157948009
Date Analyzed: 05/07/2018 16:13
Lab File ID: 050718.B\050718012.D
Initial wt/vol: 10.0164 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)	110	
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)	532	
11097-69-1	PCB-1254 (Aroclor 1254)	299	
11096-82-5	PCB-1260 (Aroclor 1260)	69.9	J
1336-36-3	PCB, Total	1010	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718012.D
Lab Smp Id: 40157948009 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:13
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948009 x2,
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: 12
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	10.016	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.180	16964	19214	1.133	0.02			
1.207	21698	18098	0.834	0.03			
1.823	79529	91205	1.147	0.12			
2.061	15151	11612	0.766	0.02			
2.476	186935	147535	0.789	0.29		1 Aroclor 1221	CO
2.551	5754947	5950199	1.034	9.15	$	2 Tetrachloro-m-xylene	BA
2.757	29698	17569	0.592	0.04		1 Aroclor 1221	CO
2.860	44680	34064	0.762	0.07		1 Aroclor 1221	CO
2.925	86129	70426	0.818	0.13		1 Aroclor 1221	CO
2.945	18801	15119	0.804	0.02			
3.064	128588	78574	0.611	0.20			
3.093	137393	139341	1.014	0.21			
3.131	277643	262546	0.946	0.44			
3.396	234753	225825	0.962	0.37			
3.423	228068	211611	0.928	0.36			
3.513	246190	229762	0.933	0.39			
3.599	332958	280047	0.841	0.52			
3.728	35139	30317	0.863	0.05			
3.814	194562	188042	0.966	0.30			
3.838	124211	111606	0.899	0.19			
3.909	1548926	987773	0.638	2.46			
4.020	347872	251757	0.724	0.55			
4.077	365379	316921	0.867	0.58			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.142	226806	209460	0.924	0.36	
4.221	59542	52531	0.882	0.09	
4.298	1779317	1638245	0.921	2.83	
4.345	1828377	1742847	0.953	2.90	6 Aroclor 1248
4.376	1686320	1327780	0.787	2.68	
4.502	1294157	1209724	0.935	2.05	
4.538	971726	867830	0.893	1.54	
4.600	265170	268002	1.011	0.42	
4.631	1660879	1530440	0.921	2.64	6 Aroclor 1248
4.673	83457	66545	0.797	0.13	
4.704	300018	266776	0.889	0.47	
4.764	73766	58346	0.791	0.11	
4.815	122112	79578	0.652	0.19	
4.854	231068	217225	0.940	0.36	
4.899	1232430	1150408	0.933	1.96	6 Aroclor 1248
4.933	1070084	1014022	0.948	1.70	
4.965	2931215	1862539	0.635	4.66	6 Aroclor 1248
5.043	397819	333418	0.838	0.63	
5.124	1389951	1241889	0.893	2.21	6 Aroclor 1248
5.187	804229	696236	0.866	1.27	
5.247	1803726	1591294	0.882	2.87	7 Aroclor 1254
5.298	1434326	1210797	0.844	2.28	
5.369	107838	99296	0.921	0.17	
5.397	258282	204530	0.792	0.41	
5.449	578248	539676	0.933	0.92	
5.493	1238781	1094363	0.883	1.97	7 Aroclor 1254
5.535	1278397	1100005	0.860	2.03	
5.569	76204	113250	1.486	0.12	
5.596	2319019	2057781	0.887	3.69	7 Aroclor 1254
5.659	65715	45535	0.693	0.10	
5.691	368792	320739	0.870	0.58	
5.761	304892	276858	0.908	0.48	
5.798	266507	192464	0.722	0.42	
5.827	384787	275389	0.716	0.61	
5.877	2908599	2380300	0.818	4.62	
5.908	205405	182260	0.887	0.32	
5.974	283390	175127	0.618	0.45	
6.015	102724	82978	0.808	0.16	
6.051	15870	18137	1.143	0.02	
6.078	366060	338573	0.925	0.58	
6.111	1483065	1306828	0.881	2.35	7 Aroclor 1254
6.141	1952443	1664597	0.853	3.10	
6.208	31532	23767	0.754	0.05	
6.254	460849	334162	0.725	0.73	
6.314	170650	183621	1.076	0.27	
6.328	238453	201501	0.845	0.37	
6.385	2633481	2237529	0.850	4.19	7 Aroclor 1254
6.420	325401	279349	0.858	0.51	
6.461	143435	117024	0.816	0.22	
6.517	160886	101309	0.630	0.25	
6.573	17704	21181	1.196	0.02	
6.596	465804	447228	0.960	0.74	
6.623	627228	581581	0.927	0.99	
6.646	180859	181578	1.004	0.28	
6.690	104076	88141	0.847	0.16	
6.746	54735	51941	0.949	0.08	
6.805	263245	235178	0.893	0.41	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.845	241226	204880	0.849	0.38	
6.887	385978	332584	0.862	0.61	
6.928	152148	104013	0.684	0.24	
6.996	41303	26885	0.651	0.06	
7.029	360705	313198	0.868	0.57	
7.090	796167	724307	0.910	1.26	8 Aroclor 1260
7.121	64970	72768	1.120	0.10	
7.188	35033	33766	0.964	0.05	
7.207	99891	50283	0.503	0.15	
7.336	387290	345315	0.892	0.61	8 Aroclor 1260
7.367	186128	132563	0.712	0.29	
7.422	91509	46118	0.504	0.14	
7.475	187717	174512	0.930	0.29	
7.528	293570	217739	0.742	0.46	8 Aroclor 1260
7.633	51415	30781	0.599	0.08	
7.665	43785	27752	0.634	0.06	
7.745	29363	30504	1.039	0.04	
7.777	104447	91255	0.874	0.16	
7.813	78527	53358	0.679	0.12	
7.846	56587	33599	0.594	0.09	
7.881	14778	20651	1.397	0.02	
7.898	85664	57513	0.671	0.13	
7.951	21048	16682	0.793	0.03	
7.985	184129	146954	0.798	0.29	8 Aroclor 1260
8.042	20734	17917	0.864	0.03	
8.136	30345	24488	0.807	0.04	
8.360	127932	113156	0.885	0.20	
8.437	10417	10838	1.040	0.01	
8.656	5950643	5290754	0.889	10.03	$ 12 Decachlorobiphenyl
8.813	23815	18643	0.783	0.03	
9.001	43132	24412	0.566	0.06	
9.140	25370	17027	0.671	0.04	
9.254	31271	27279	0.872	0.04	
9.527	42715	27274	0.639	0.06	
	62845816	54738639		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718012.D
Lab Smp Id: 40157948009 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:13
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948009 x2,
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: 12
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	10.016	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)	CO
2.475	2.471	0.004	186935	0.35459	350	0.00- 20.00	0.00	CO
2.756	2.758	-0.002	29697	0.02141	21	0.00- 20.00	0.00	CO
2.859	2.860	-0.001	44680	0.04049	40	0.00- 20.00	0.00	CO
2.925	2.923	0.002	86129	0.02576	26	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					110			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	5754947	0.04778	48		(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	1828376	0.76650	760	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1660878	0.39103	390	0.00- 20.00	90.84	BA
4.898	4.898	0.000	1232429	0.60501	600	0.00- 20.00	67.41	BA
4.964	4.963	0.001	2931214	0.53515	530	0.00- 20.00	160.32	BA
5.123	5.123	0.000	1389950	0.36739	370	0.00- 20.00	76.02	BA
Average of Peak Concentrations =					530			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	1803725	0.31983	320	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	1238781	0.26562	260	0.00- 20.00	68.68	CO
5.595	5.596	-0.001	2319019	0.27085	270	0.00- 20.00	128.57	CO
6.111	6.113	-0.002	1483065	0.27915	280	0.00- 20.00	82.22	CO
6.385	6.387	-0.002	2633481	0.35971	360	0.00- 20.00	146.00	CO
Average of Peak Concentrations =					300			
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	796166	0.06765	68	0.00- 20.00	32.66	CO
7.336	7.338	-0.002	387289	0.06847	68	0.00- 20.00	14.71	CO
7.527	7.529	-0.002	293570	0.08587	86	0.00- 20.00	11.15	CO
7.984	7.987	-0.003	184129	0.05814	58	0.00- 20.00	6.99	CO
Average of Peak Concentrations =					70			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	5950642	0.04468	45			

QC Flag Legend

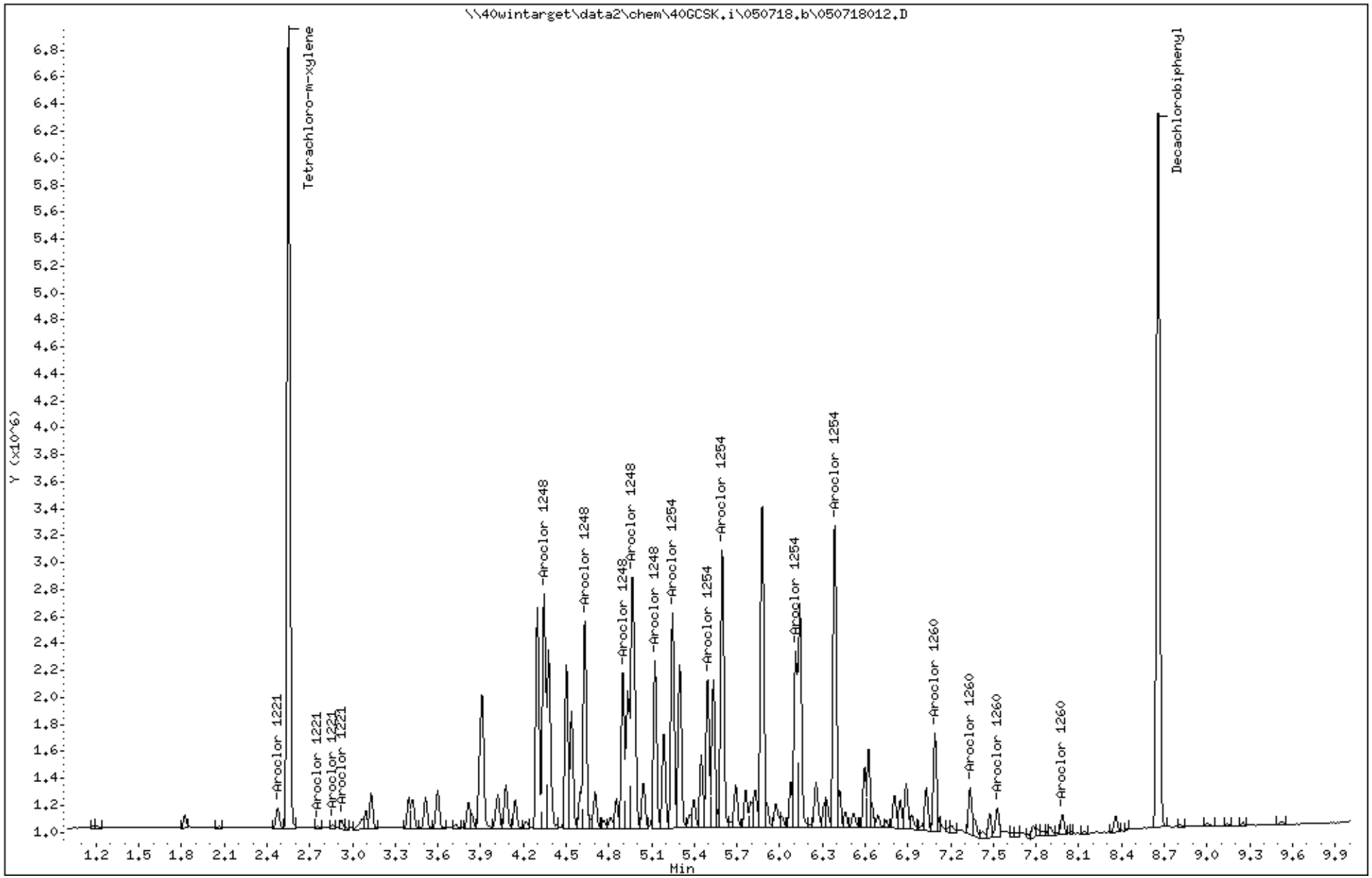
M - Compound response manually integrated.

Review Codes Legend

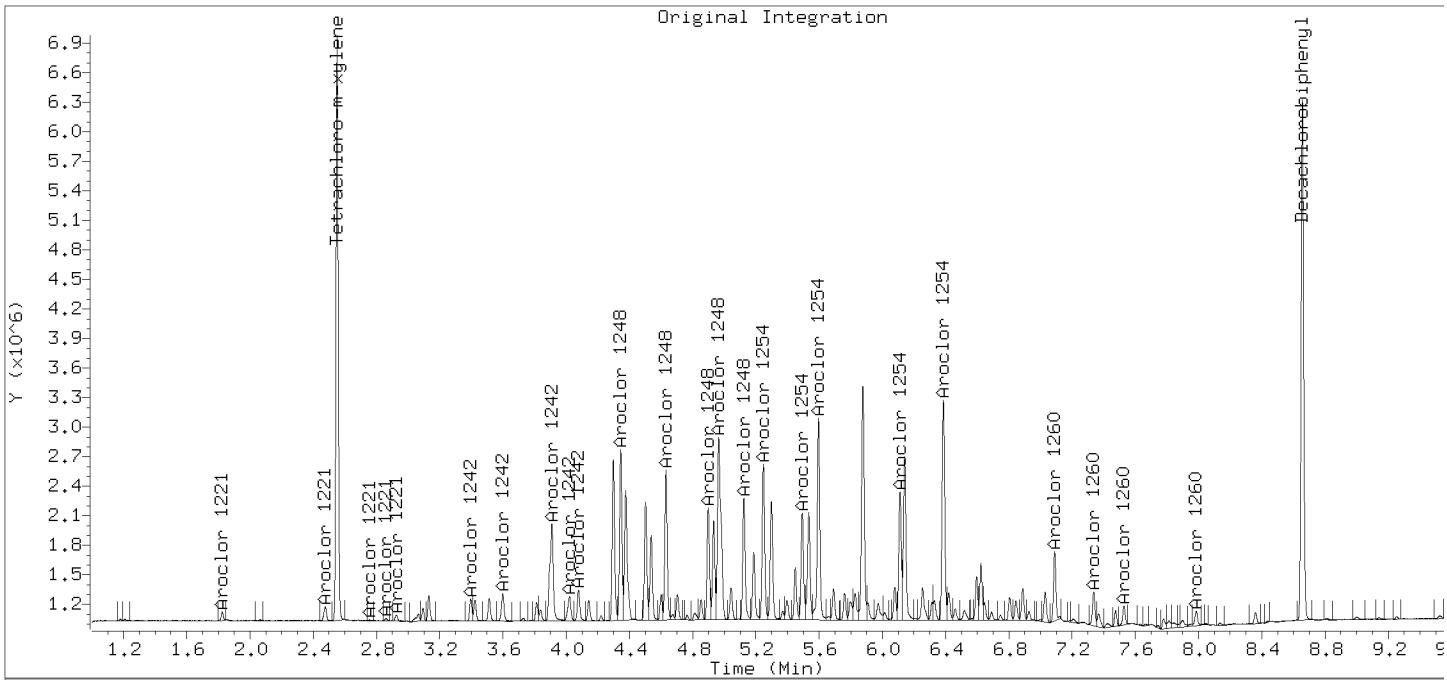
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

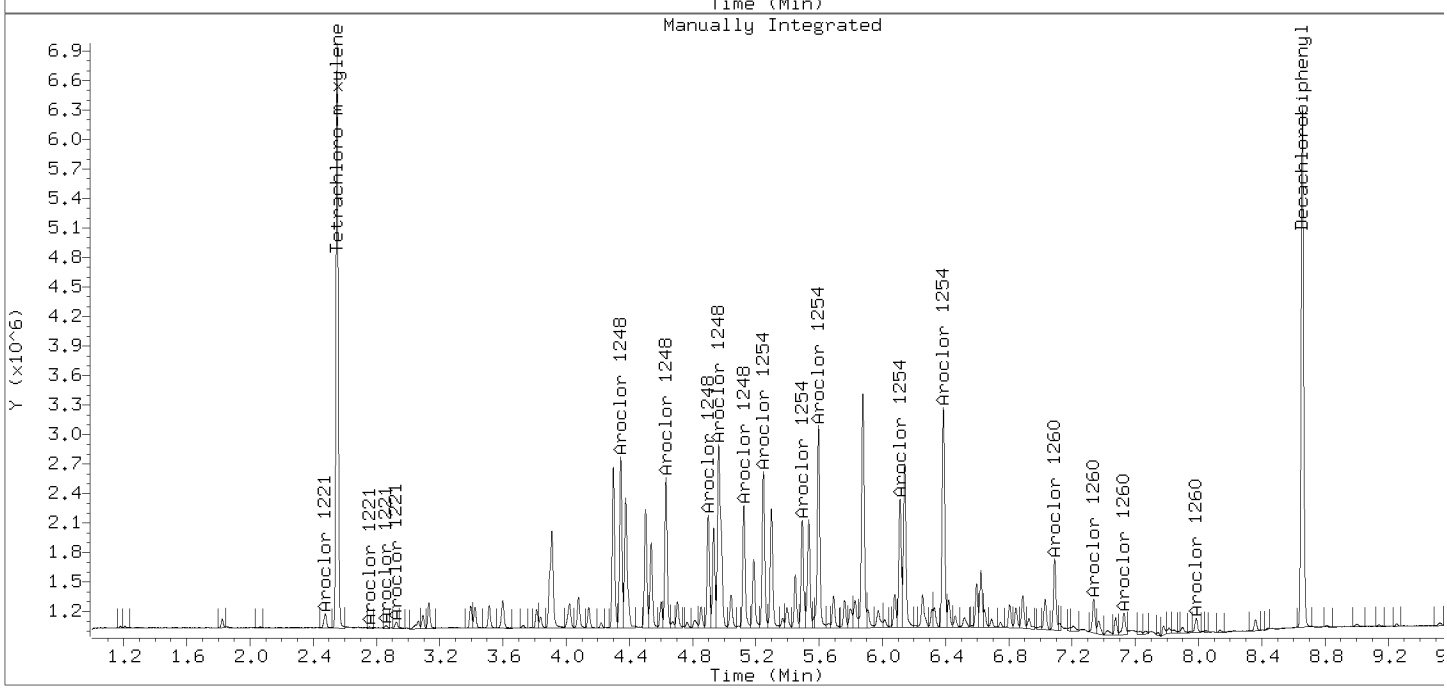
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718012.D
Date : 07-MAY-2018 16:13
Client ID: TD1-170828-01-GOSH-
Sample Info: 40157948009 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 16:13 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	233967	0	
Aroclor 1016	233967	0	
Aroclor 1016	233967	0	
Aroclor 1016	233967	0	
Aroclor 1016	233967	0	
Aroclor 1221	79528	0	CO
Aroclor 1221	79528	0	CO
Aroclor 1221	79528	0	CO
Aroclor 1221	79528	0	CO
Aroclor 1221	79528	0	CO
Aroclor 1232	83931	0	
Aroclor 1232	83931	0	
Aroclor 1232	83931	0	
Aroclor 1232	83931	0	

Aroclor 1232	83931	0	
Aroclor 1242	233967	0	
Aroclor 1242	233967	0	
Aroclor 1242	233967	0	
Aroclor 1242	233967	0	
Aroclor 1242	233967	0	
Aroclor 1248	1806239	1828376	BA
Aroclor 1248	1806239	1828376	BA
Aroclor 1248	1806239	1828376	BA
Aroclor 1248	1806239	1828376	BA
Aroclor 1248	1806239	1828376	BA
Aroclor 1254	1772805	1803725	CO
Aroclor 1254	1772805	1803725	CO
Aroclor 1254	1772805	1803725	CO
Aroclor 1254	1772805	1803725	CO
Aroclor 1254	1772805	1803725	CO
Aroclor 1260	2625520	0	CO
Aroclor 1260	2625520	0	CO
Aroclor 1260	2625520	0	CO
Aroclor 1260	2625520	0	CO
Aroclor 1260	2625520	0	CO
Tetrachloro-m-xylene	5707615	5754947	BA
Decachlorobiphenyl	5950642	5950642	

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SAMPLE NO.

ND2-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40157948010
Date Analyzed: 05/08/2018 05:10
Lab File ID: 050718.B\050718061.D
Initial wt/vol: 3.0399 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)	<188	U
11104-28-2	PCB-1221 (Aroclor 1221)	<188	U
11141-16-5	PCB-1232 (Aroclor 1232)	<188	U
53469-21-9	PCB-1242 (Aroclor 1242)	<188	U
12672-29-6	PCB-1248 (Aroclor 1248)	3860	
11097-69-1	PCB-1254 (Aroclor 1254)	1980	
11096-82-5	PCB-1260 (Aroclor 1260)	257	J
1336-36-3	PCB, Total	6090	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718061.D
Lab Smp Id: 40157948010 Client Smp ID: ND2-170828-01-PKSD-
Inj Date : 08-MAY-2018 05:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948010 x5,
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: 61
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	3.040	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.181	9586	9148	0.954	0.02		
2.230	10027	10933	1.090	0.02		
2.380	18112	14098	0.778	0.04		
2.476	96747	80828	0.835	0.23		
2.549	1959160	2003583	1.023	4.69	$ 2 Tetrachloro-m-xylene	
2.860	12978	10727	0.827	0.03		
2.923	30671	27864	0.908	0.07		
3.129	111146	110374	0.993	0.26		
3.395	61378	60391	0.984	0.14		
3.422	108022	97685	0.904	0.25		
3.512	155209	151737	0.978	0.37		
3.599	239031	225549	0.944	0.57		
3.727	25404	21127	0.832	0.06		
3.812	148156	151558	1.023	0.35		
3.837	87391	77208	0.883	0.20		
3.909	840998	494674	0.588	2.01		
4.020	172996	136870	0.791	0.41		
4.077	273544	248094	0.907	0.65		
4.142	85911	79525	0.926	0.20		
4.218	17281	13465	0.779	0.04		
4.298	1507680	1399494	0.928	3.61		
4.344	1650657	1573680	0.953	3.95	6 Aroclor 1248	BA
4.375	2057417	1722774	0.837	4.93		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.501	647903	615534	0.950	1.55	
4.537	735151	664013	0.903	1.76	
4.630	1289111	1188448	0.922	3.09	6 Aroclor 1248
4.671	87673	74901	0.854	0.21	
4.702	97188	84060	0.865	0.23	
4.764	90470	76009	0.840	0.21	
4.813	158124	105328	0.666	0.37	
4.852	226873	210727	0.929	0.54	
4.897	1070153	1033044	0.965	2.56	6 Aroclor 1248
4.932	1197068	1137716	0.950	2.87	
4.963	2711527	1831322	0.675	6.91	6 Aroclor 1248
5.042	412871	350858	0.850	0.98	
5.123	1249428	1148596	0.919	2.99	6 Aroclor 1248
5.185	636914	551265	0.866	1.52	
5.246	1532194	1353329	0.883	3.67	7 Aroclor 1254
5.297	1238193	1100979	0.889	2.96	
5.369	117297	114191	0.974	0.28	
5.394	146456	115424	0.788	0.35	
5.449	605684	554235	0.915	1.45	
5.492	1155426	1009739	0.874	2.77	7 Aroclor 1254
5.532	825998	743267	0.900	1.98	
5.570	78447	95484	1.217	0.18	
5.596	2010183	1741773	0.866	4.81	7 Aroclor 1254
5.660	46257	41815	0.904	0.11	
5.691	327034	293725	0.898	0.78	
5.760	275421	256062	0.930	0.66	
5.799	204798	154807	0.756	0.49	
5.826	327818	232869	0.710	0.78	
5.876	2234299	1755400	0.786	5.35	
5.974	197991	151701	0.766	0.47	
6.017	122148	64900	0.531	0.29	
6.079	227982	209906	0.921	0.54	
6.111	1221297	1076278	0.881	2.92	7 Aroclor 1254
6.140	1040319	904097	0.869	2.49	
6.254	281713	201296	0.715	0.67	
6.313	204387	120613	0.590	0.49	
6.385	1595108	1354110	0.849	3.82	7 Aroclor 1254
6.420	198432	175326	0.884	0.47	
6.459	94305	78709	0.835	0.22	
6.519	98779	74983	0.759	0.23	
6.595	272818	252250	0.925	0.65	
6.623	367470	322599	0.878	0.88	
6.648	87401	95513	1.093	0.20	
6.690	62357	52844	0.847	0.14	
6.747	29947	27811	0.929	0.07	
6.804	143912	132614	0.921	0.34	
6.844	123257	108782	0.883	0.29	
6.887	230773	199944	0.866	0.55	
6.927	88985	63441	0.713	0.21	
6.993	16628	13628	0.820	0.03	
7.027	53834	48295	0.897	0.12	
7.090	336332	308520	0.917	0.80	8 Aroclor 1260
7.120	34173	32942	0.964	0.08	
7.204	21838	17431	0.798	0.05	
7.337	204142	183142	0.897	0.48	8 Aroclor 1260
7.367	80311	62195	0.774	0.19	
7.475	102575	93112	0.908	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.527	130325	104030	0.798	0.31	8 Aroclor 1260
7.739	11488	12843	1.118	0.02	
7.779	42855	39653	0.925	0.10	
7.811	45894	27661	0.603	0.11	
7.983	70920	62218	0.877	0.17	8 Aroclor 1260
8.358	65337	58348	0.893	0.15	
8.436	17103	12448	0.728	0.04	
8.656	2304589	2034416	0.883	5.52	$ 12 Decachlorobiphenyl
8.997	11623	11164	0.961	0.02	
9.250	17387	12387	0.712	0.04	
9.527	34778	19362	0.557	0.08	
	41706972	36177818		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718061.D
Lab Smp Id: 40157948010 Client Smp ID: ND2-170828-01-PKSD-
Inj Date : 08-MAY-2018 05:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948010 x5,
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: 61
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	3.040	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	1959159	0.01627		130		

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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.

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	1650656	0.69200	5700	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1289110	0.30350	2500	0.00- 20.00	78.10	BA
4.897	4.898	-0.001	1070153	0.52535	4300	0.00- 20.00	64.83	BA
4.963	4.963	0.000	2711527	0.49504	4100	0.00- 20.00	164.27	BA
5.123	5.123	0.000	1249427	0.33025	2700	0.00- 20.00	75.69	BA
Average of Peak Concentrations =					3800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1532194	0.27168	2200	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	1155426	0.24775	2000	0.00- 20.00	75.41	BA
5.595	5.596	-0.001	2010182	0.23478	1900	0.00- 20.00	131.20	BA
6.111	6.113	-0.002	1221297	0.22988	1900	0.00- 20.00	79.71	BA
6.385	6.387	-0.002	1595108	0.21788	1800	0.00- 20.00	104.11	BA
Average of Peak Concentrations =					2000			
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	336332	0.02858	240	0.00- 20.00	21.09	BA
7.336	7.338	-0.002	204141	0.03609	300	0.00- 20.00	12.80	BA
7.526	7.529	-0.003	130325	0.03812	310	0.00- 20.00	8.17	BA
7.983	7.987	-0.004	70920	0.02239	180	0.00- 20.00	4.45	BA
Average of Peak Concentrations =					260			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2304588	0.01730	140			

QC Flag Legend

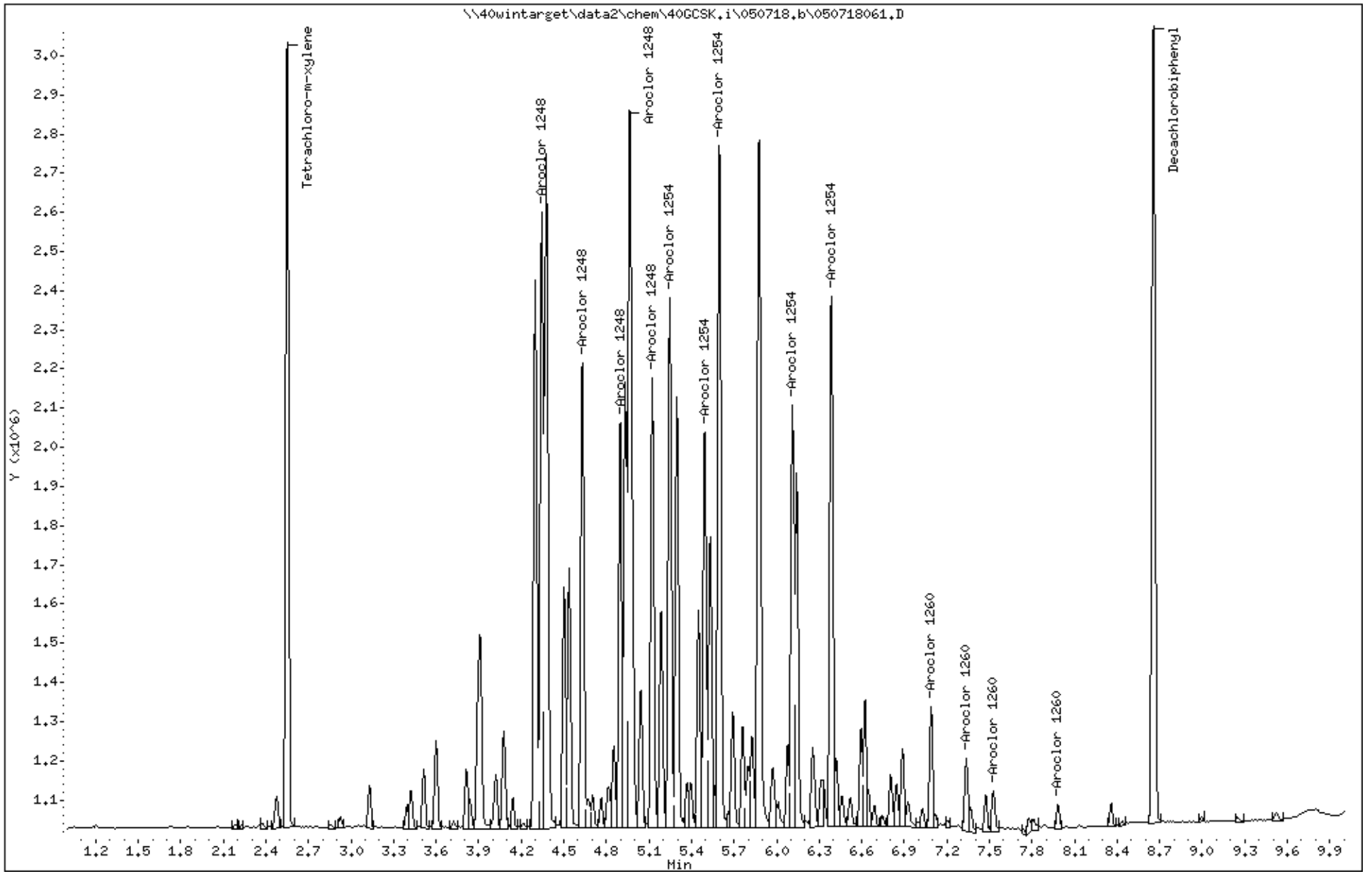
M - Compound response manually integrated.

Review Codes Legend

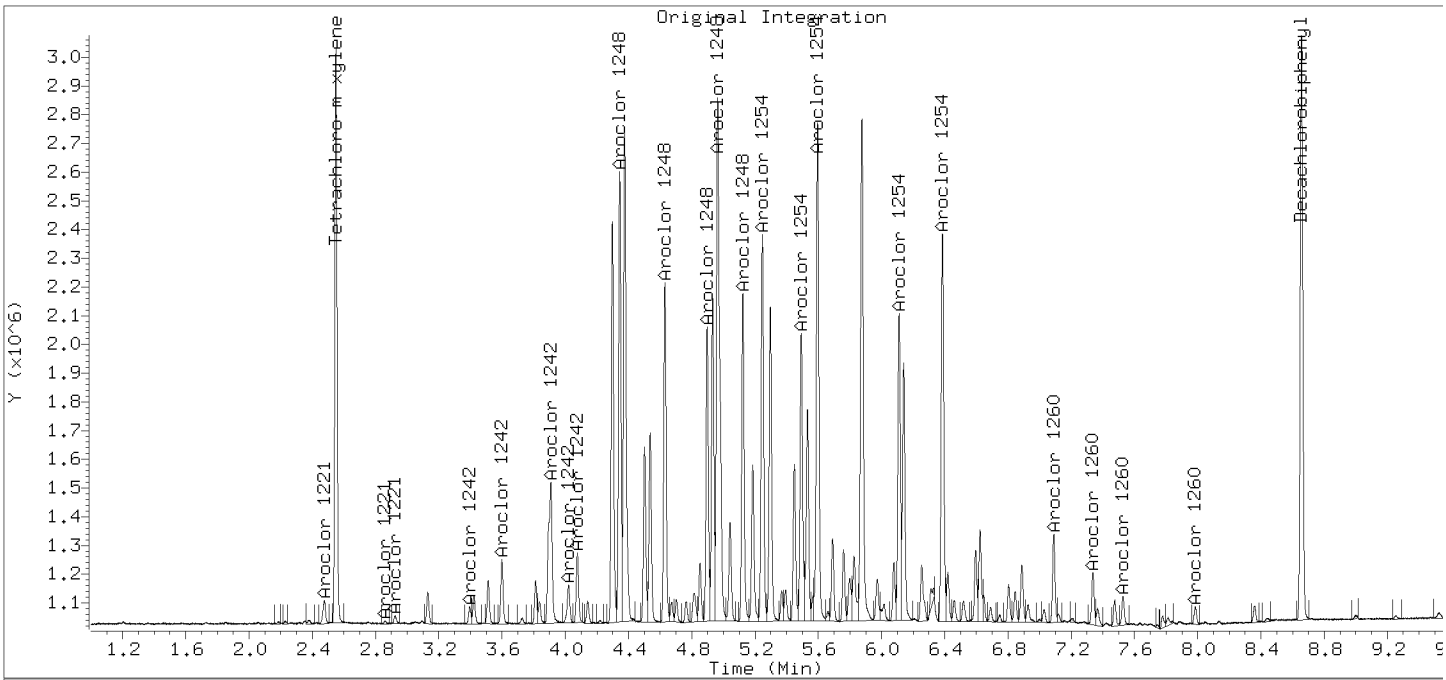
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

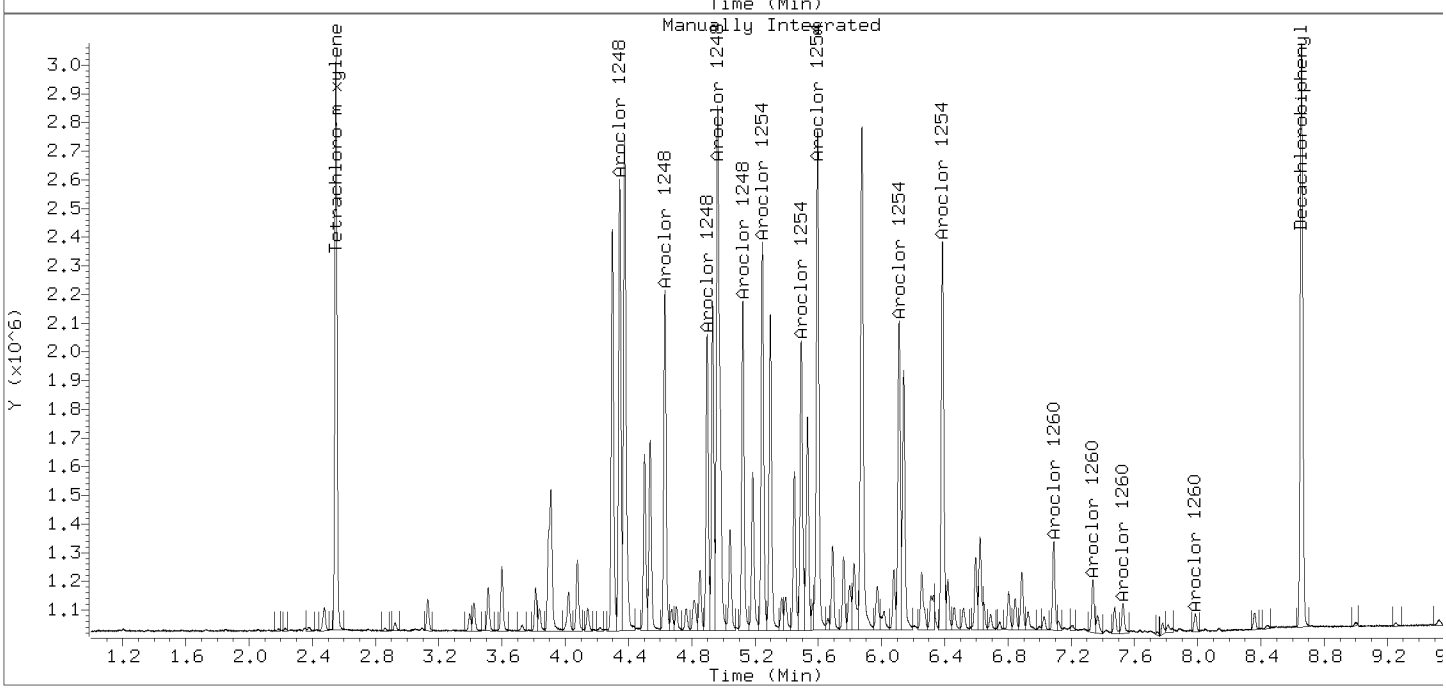
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718061.D
Date : 08-MAY-2018 05:10
Client ID: ND2-170828-01-PKSD-
Sample Info: 40157948010 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718061.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 05:10 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	61378	0	
Aroclor 1016	61378	0	
Aroclor 1016	61378	0	
Aroclor 1016	61378	0	
Aroclor 1016	61378	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30671	0	
Aroclor 1232	30671	0	
Aroclor 1232	30671	0	
Aroclor 1232	30671	0	

Aroclor 1232	30671	0	
Aroclor 1242	61378	0	
Aroclor 1242	61378	0	
Aroclor 1242	61378	0	
Aroclor 1242	61378	0	
Aroclor 1242	61378	0	
Aroclor 1248	1633194	1650656	BA
Aroclor 1248	1633194	1650656	BA
Aroclor 1248	1633194	1650656	BA
Aroclor 1248	1633194	1650656	BA
Aroclor 1248	1633194	1650656	BA
Aroclor 1254	1510015	1532194	BA
Aroclor 1254	1510015	1532194	BA
Aroclor 1254	1510015	1532194	BA
Aroclor 1254	1510015	1532194	BA
Aroclor 1254	1510015	1532194	BA
Aroclor 1260	1583057	0	BA
Aroclor 1260	1583057	0	BA
Aroclor 1260	1583057	0	BA
Aroclor 1260	1583057	0	BA
Aroclor 1260	1583057	0	BA
Tetrachloro-m-xylene	1959159	1959159	
Decachlorobiphenyl	2304588	2304588	

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SAMPLE NO.

ND2-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40157948011
Date Analyzed: 05/07/2018 16:29
Lab File ID: 050718.B\050718013.D
Initial wt/vol: 10.0294 Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	614	
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1830	
11097-69-1	PCB-1254 (Aroclor 1254)	785	
11096-82-5	PCB-1260 (Aroclor 1260)	187	J
1336-36-3	PCB, Total	3420	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718013.D
Lab Smp Id: 40157948011 Client Smp ID: ND2-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948011 x10,
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: 13
Dil Factor: 10.00000
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	10.000	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	10.029	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.208	15085	8418	0.558	0.04			
1.855	13336	12406	0.930	0.03		1 Aroclor 1221	BA
2.477	288297	240593	0.835	0.82		1 Aroclor 1221	BA
2.550	1167205	1192642	1.022	3.32	$	2 Tetrachloro-m-xylene	BA
2.754	15207	14262	0.938	0.04		1 Aroclor 1221	BA
2.860	26455	20832	0.787	0.07		1 Aroclor 1221	BA
2.922	69180	59539	0.861	0.19		1 Aroclor 1221	BA
3.064	10507	10902	1.038	0.02			
3.093	14614	14767	1.010	0.04			
3.131	473111	465287	0.983	1.34			
3.396	156657	157233	1.004	0.44			
3.423	196805	188577	0.958	0.56			
3.513	650545	637297	0.980	1.85			
3.599	375404	351675	0.937	1.06			
3.727	94117	78195	0.831	0.26			
3.813	348535	327071	0.938	0.99			
3.836	98717	93663	0.949	0.28			
3.897	318027	433259	1.362	0.90			
3.909	667598	548538	0.822	1.90			
4.022	488278	425788	0.872	1.39			
4.077	365516	318256	0.871	1.04			
4.142	141840	120010	0.846	0.40			
4.221	58656	47148	0.804	0.16			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1689312	1500381	0.888	4.80	
4.345	1696636	1600123	0.943	4.82	6 Aroclor 1248
4.376	2237515	1903121	0.851	6.86	
4.431	33945	26979	0.795	0.09	
4.501	636916	605922	0.951	1.81	
4.538	602394	535279	0.889	1.71	
4.631	1162526	1063021	0.914	3.30	6 Aroclor 1248
4.673	160807	138802	0.863	0.45	
4.703	146727	131433	0.896	0.41	
4.766	102187	85522	0.837	0.29	
4.822	137033	108260	0.790	0.39	
4.852	216983	201946	0.931	0.61	
4.898	748408	702778	0.939	2.13	6 Aroclor 1248
4.933	470914	433258	0.920	1.34	
4.964	1702087	949950	0.558	4.84	6 Aroclor 1248
5.042	376582	317330	0.843	1.07	
5.123	653077	586465	0.898	1.85	6 Aroclor 1248
5.186	655737	577641	0.881	1.86	
5.246	1019702	889237	0.872	2.90	7 Aroclor 1254
5.297	842967	730959	0.867	2.39	
5.368	87793	80459	0.916	0.24	
5.393	183585	146698	0.799	0.52	
5.449	305947	277115	0.906	0.87	
5.493	703955	618847	0.879	2.00	7 Aroclor 1254
5.533	445933	396551	0.889	1.26	
5.566	104054	100121	0.962	0.29	
5.595	1400683	1227760	0.877	3.98	7 Aroclor 1254
5.662	56991	45140	0.792	0.16	
5.691	194507	171883	0.884	0.55	
5.761	252890	238121	0.942	0.71	
5.796	176588	141401	0.801	0.50	
5.828	248594	191149	0.769	0.70	
5.875	1554663	1203531	0.774	4.42	
5.971	159570	116132	0.728	0.45	
6.014	105547	75913	0.719	0.30	
6.078	227493	211760	0.931	0.64	
6.112	697110	605889	0.869	1.98	7 Aroclor 1254
6.140	884223	744218	0.842	2.51	
6.254	207315	132059	0.637	0.59	
6.313	75559	81256	1.075	0.21	
6.327	120529	92629	0.769	0.34	
6.386	1175829	974115	0.828	3.34	7 Aroclor 1254
6.419	128549	116437	0.906	0.36	
6.459	72845	53502	0.734	0.20	
6.516	103300	80559	0.780	0.29	
6.596	248615	225217	0.906	0.70	
6.623	250604	227739	0.909	0.71	
6.646	84040	83001	0.988	0.23	
6.689	53727	41000	0.763	0.15	
6.746	23796	20764	0.873	0.06	
6.804	126897	110986	0.875	0.36	
6.846	124235	109271	0.880	0.35	
6.888	177196	153521	0.866	0.50	
6.927	79194	52707	0.666	0.22	
6.996	18067	17535	0.971	0.05	
7.029	75506	62520	0.828	0.21	
7.089	350119	312742	0.893	0.99	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	38348	32587	0.850	0.10	
7.204	36473	22831	0.626	0.10	
7.336	202549	177336	0.876	0.57	8 Aroclor 1260
7.367	76535	57203	0.747	0.21	
7.421	34892	18512	0.531	0.09	
7.476	106981	102616	0.959	0.30	
7.529	158277	121668	0.769	0.45	8 Aroclor 1260
7.563	24110	16289	0.676	0.06	
7.738	15398	18216	1.183	0.04	
7.777	47450	48070	1.013	0.13	
7.813	41064	28514	0.694	0.11	
7.885	21629	14950	0.691	0.06	
7.984	120537	106459	0.883	0.34	8 Aroclor 1260
8.359	87728	78151	0.891	0.24	
8.437	27393	17274	0.631	0.07	
8.656	1371140	1214712	0.886	3.90	$ 12 Decachlorobiphenyl
9.000	33728	23246	0.689	0.09	
9.254	14680	13322	0.907	0.04	
9.526	36228	26665	0.736	0.10	
	35127334	30533634		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718013.D
Lab Smp Id: 40157948011 Client Smp ID: ND2-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948011 x10,
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: 13
Dil Factor: 10.00000
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	10.000	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	10.029	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	13335	0.01346	67	0.00- 20.00	100.00(M)	BA
2.476	2.471	0.005	288297	0.54686	2700	0.00- 20.00	2161.96	BA
2.755	2.758	-0.003	15207	0.01096	55	0.00- 20.00	114.04	BA
2.859	2.860	-0.001	26455	0.02397	120	0.00- 20.00	198.39	BA
2.922	2.923	-0.001	69180	0.02069	100	0.00- 20.00	518.79	BA
Average of Peak Concentrations =					610			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	1167205	0.00969	48		(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         1696636 0.71127     3500   0.00-  20.00   100.00(M)      BA
4.630    4.630    0.000         1162525 0.27370     1400   0.00-  20.00    68.52         BA
4.897    4.898   -0.001          748408 0.36740     1800   0.00-  20.00    44.11         BA
4.964    4.963    0.001         1702087 0.31075     1500   0.00-  20.00   100.32         BA
5.122    5.123   -0.001          653077 0.17262      860   0.00-  20.00    38.49         BA
               Average of Peak Concentrations =     1800
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002         1019701 0.18081      900   0.00-  20.00   100.00(M)      BA
5.492    5.492    0.000          703954 0.15094      750   0.00-  20.00    69.04         BA
5.595    5.596   -0.001         1400682 0.16359      820   0.00-  20.00   137.36         BA
6.112    6.113   -0.001          697109 0.13121      650   0.00-  20.00    68.36         BA
6.386    6.387   -0.001         1175828 0.16061      800   0.00-  20.00   115.31         BA
               Average of Peak Concentrations =      780
-------------------------------------------------------------------------------
    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          350118 0.02975      150   0.00-  20.00    29.78         CO
7.335    7.338   -0.003          202549 0.03581      180   0.00-  20.00    17.23         CO
7.528    7.529   -0.001          158277 0.04630      230   0.00-  20.00    15.49         CO
7.983    7.987   -0.004          120537 0.03806      190   0.00-  20.00    10.25         CO
               Average of Peak Concentrations =      190
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.655    8.657   -0.002         1371139 0.01029       51
-------------------------------------------------------------------------------
```

QC Flag Legend

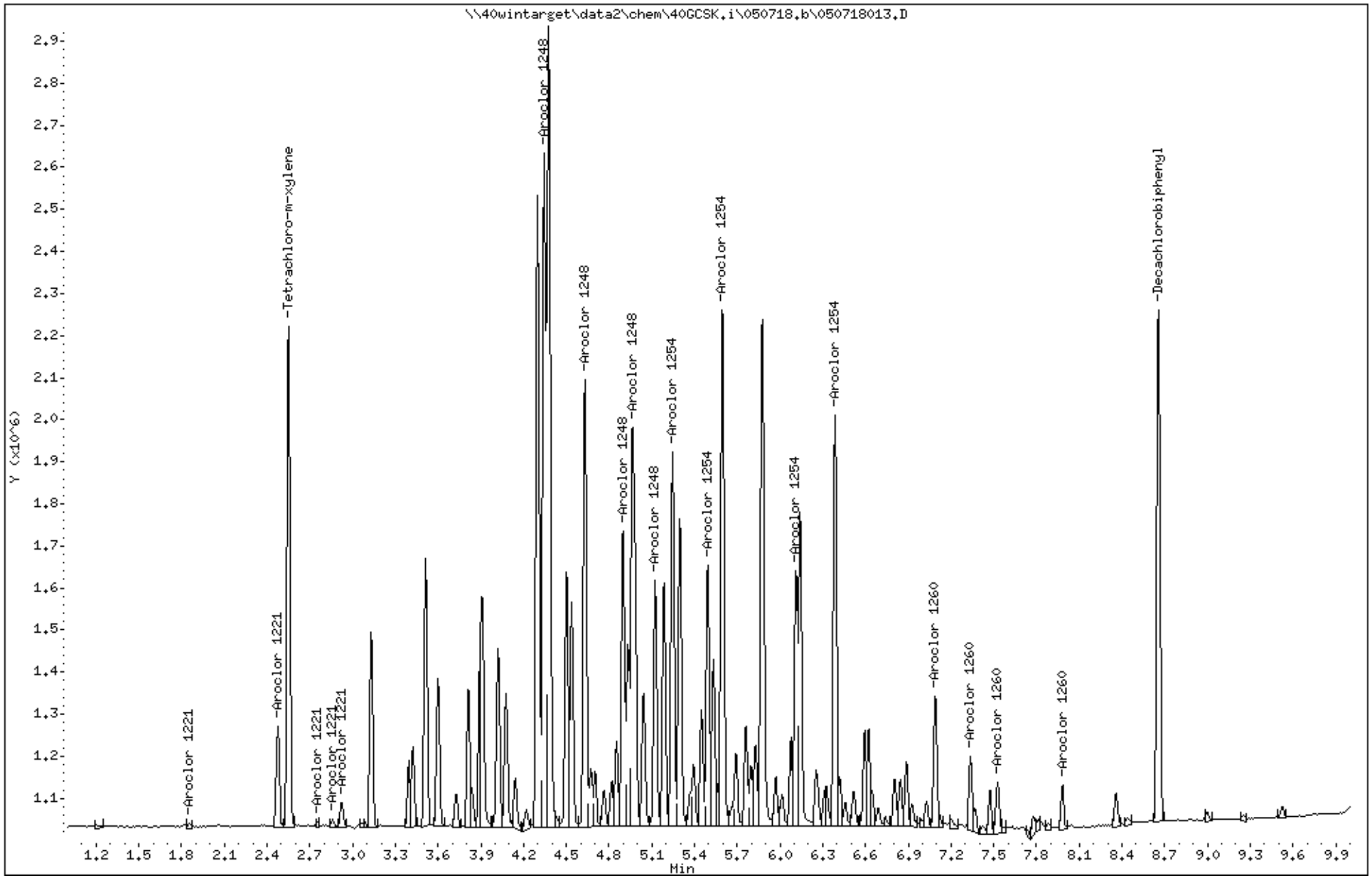
M - Compound response manually integrated.

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\050718013.D
Date : 07-MAY-2018 16:29
Client ID: ND2-170828-01-GOSH-
Sample Info: 40157948011 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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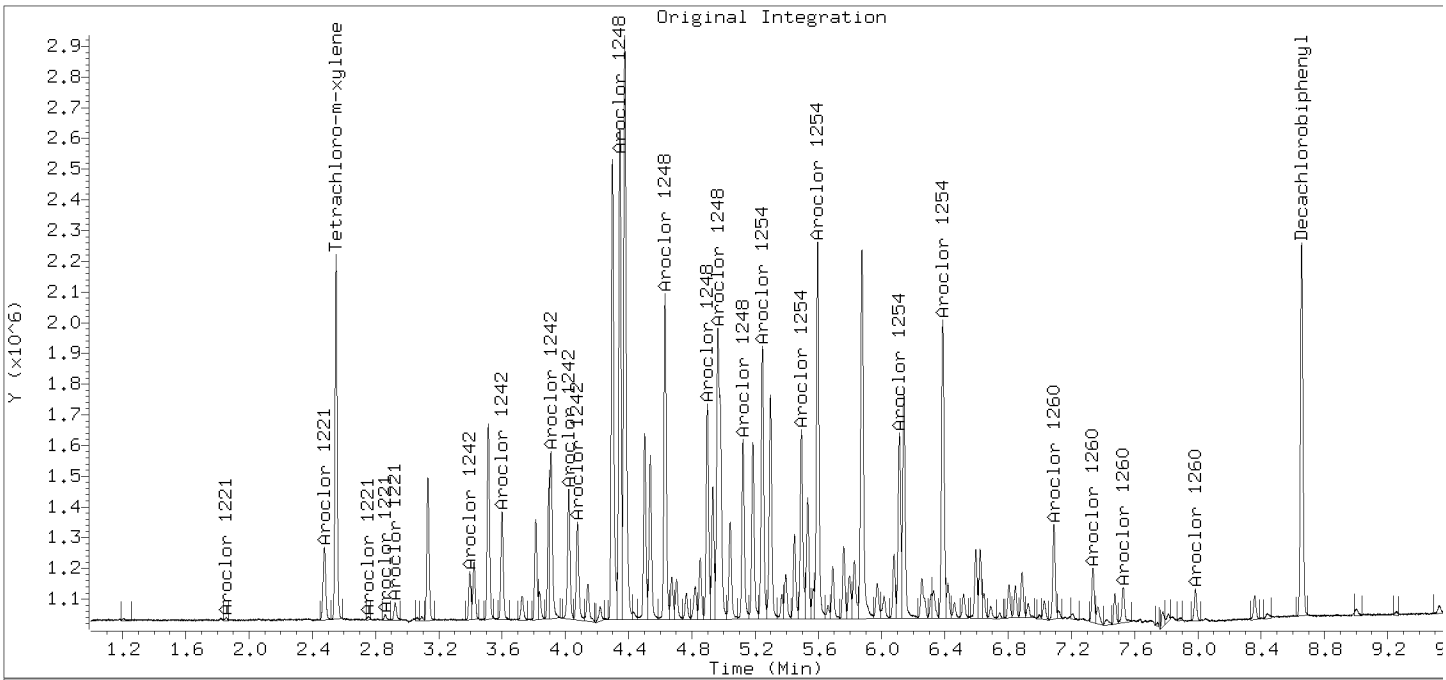
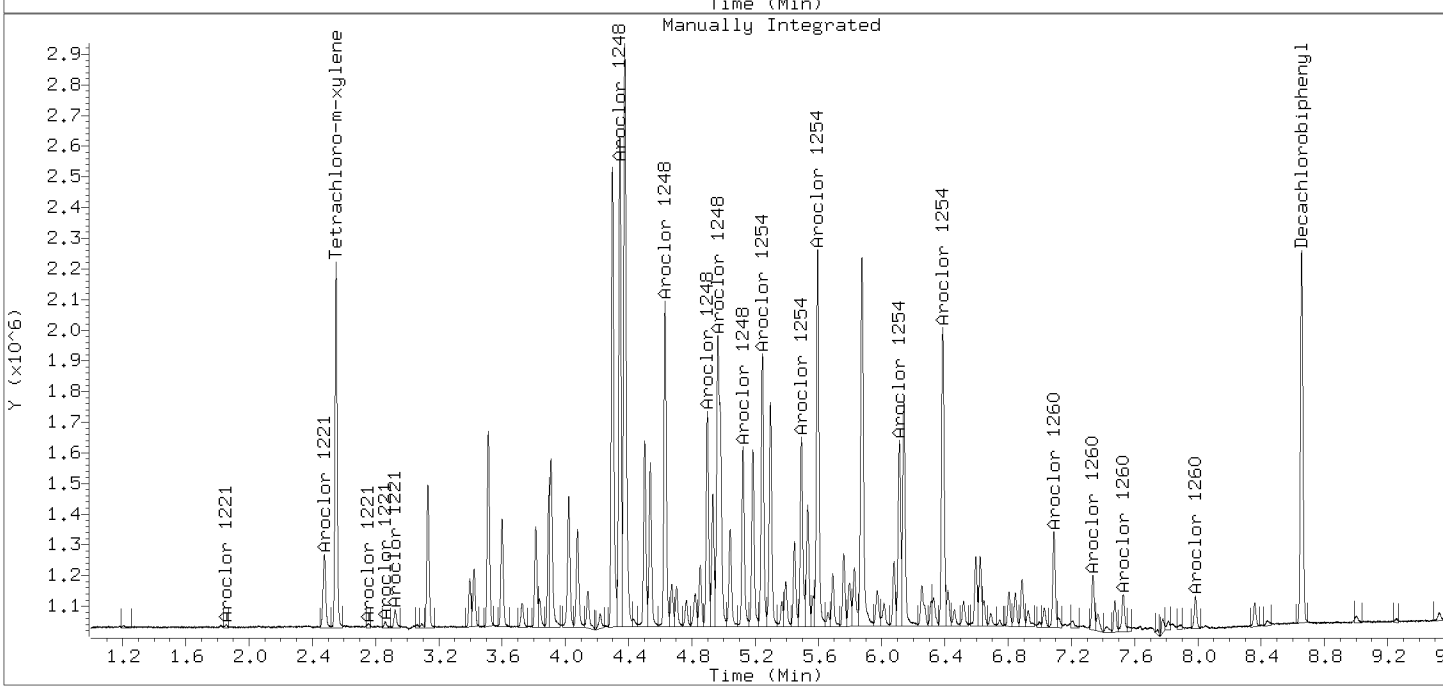
Injection Date: 07-MAY-2018 16:29 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	156656	0	
Aroclor 1016	156656	0	
Aroclor 1016	156656	0	
Aroclor 1016	156656	0	
Aroclor 1016	156656	0	
Aroclor 1221	12118	13335	BA
Aroclor 1221	12118	13335	BA
Aroclor 1221	12118	13335	BA
Aroclor 1221	12118	13335	BA
Aroclor 1221	12118	13335	BA
Aroclor 1232	65374	0	
Aroclor 1232	65374	0	
Aroclor 1232	65374	0	
Aroclor 1232	65374	0	

Aroclor 1232	65374	0	
Aroclor 1242	156656	0	
Aroclor 1242	156656	0	
Aroclor 1242	156656	0	
Aroclor 1242	156656	0	
Aroclor 1242	156656	0	
Aroclor 1248	1692098	1696636	BA
Aroclor 1248	1692098	1696636	BA
Aroclor 1248	1692098	1696636	BA
Aroclor 1248	1692098	1696636	BA
Aroclor 1248	1692098	1696636	BA
Aroclor 1254	1015473	1019701	BA
Aroclor 1254	1015473	1019701	BA
Aroclor 1254	1015473	1019701	BA
Aroclor 1254	1015473	1019701	BA
Aroclor 1254	1015473	1019701	BA
Aroclor 1260	1168062	0	CO
Aroclor 1260	1168062	0	CO
Aroclor 1260	1168062	0	CO
Aroclor 1260	1168062	0	CO
Aroclor 1260	1168062	0	CO
Tetrachloro-m-xylene	1146227	1167205	BA
Decachlorobiphenyl	1371139	1371139	

==========

SAMPLE NO.

ND1-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40157948012
Date Analyzed: 05/07/2018 23:05
Lab File ID: 050718.B\050718038.D
Initial wt/vol: 10.0342 Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<227	U
11104-28-2	PCB-1221 (Aroclor 1221)	<227	U
11141-16-5	PCB-1232 (Aroclor 1232)	<227	U
53469-21-9	PCB-1242 (Aroclor 1242)	<227	U
12672-29-6	PCB-1248 (Aroclor 1248)	3700	
11097-69-1	PCB-1254 (Aroclor 1254)	1990	
11096-82-5	PCB-1260 (Aroclor 1260)	404	J
1336-36-3	PCB, Total	6100	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718038.D
Lab Smp Id: 40157948012 Client Smp ID: ND1-170828-01-SPSH-
Inj Date : 07-MAY-2018 23:05
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948012 x20,
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: 38
Dil Factor: 20.00000
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	20.000	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	10.034	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.726	10072	7873	0.782	0.03		
2.476	23517	19231	0.818	0.07		
2.550	628043	639263	1.018	1.87	$ 2 Tetrachloro-m-xylene	
3.095	17877	16421	0.919	0.05		
3.129	13955	15360	1.101	0.04		
3.517	20096	17665	0.879	0.06		
3.724	25840	24653	0.954	0.07		
3.813	327397	268666	0.821	0.97		
3.896	336713	405914	1.206	1.00		
3.909	491946	429978	0.874	1.47		
4.007	32513	19642	0.604	0.09		
4.079	132215	114842	0.869	0.39		
4.142	55178	51866	0.940	0.16		
4.298	1462489	1376149	0.941	4.37		
4.345	1560640	1484756	0.951	4.66	6 Aroclor 1248	BA
4.376	1764542	1553468	0.880	5.27		
4.431	34763	22456	0.646	0.10		
4.502	592067	572887	0.968	1.77		
4.537	490454	443158	0.904	1.46		
4.631	920656	900587	0.978	2.75	6 Aroclor 1248	BA
4.673	142844	128063	0.897	0.42		
4.703	110085	93449	0.849	0.32		
4.765	98397	86680	0.881	0.29		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.820	141510	103476	0.731	0.42	
4.853	221986	212184	0.956	0.66	
4.898	871019	833542	0.957	2.60	6 Aroclor 1248
4.933	757545	717317	0.947	2.26	
4.964	1927058	1145677	0.595	5.76	6 Aroclor 1248
5.043	424435	374270	0.882	1.26	
5.123	783416	725996	0.927	2.34	6 Aroclor 1248
5.186	654864	597209	0.912	1.95	
5.246	1291991	1123820	0.870	3.86	7 Aroclor 1254
5.297	991939	885903	0.893	2.96	
5.371	87891	80745	0.919	0.26	
5.394	201817	171295	0.849	0.60	
5.449	397630	369466	0.929	1.18	
5.493	911054	823721	0.904	2.72	7 Aroclor 1254
5.533	553946	491074	0.887	1.65	
5.567	116689	109220	0.936	0.34	
5.595	1635565	1478736	0.904	4.89	7 Aroclor 1254
5.662	64776	57303	0.885	0.19	
5.691	215476	185377	0.860	0.64	
5.761	337557	315010	0.933	1.00	
5.797	231668	184193	0.795	0.69	
5.827	328870	249546	0.759	0.98	
5.876	1967336	1539568	0.783	6.38	
5.973	170209	140096	0.823	0.50	
6.016	136562	90898	0.666	0.40	
6.079	290164	269279	0.928	0.86	
6.111	938341	806916	0.860	2.80	7 Aroclor 1254
6.140	1114848	941873	0.845	3.33	
6.255	269985	171519	0.635	0.80	
6.313	97110	106228	1.094	0.29	
6.329	152370	117367	0.770	0.45	
6.387	1525332	1302926	0.854	4.56	7 Aroclor 1254
6.419	166527	144596	0.868	0.49	
6.459	78170	67275	0.861	0.23	
6.518	136127	108672	0.798	0.40	
6.596	392765	356145	0.907	1.17	
6.623	302931	272544	0.900	0.90	
6.645	110165	108920	0.989	0.32	
6.689	59989	54248	0.904	0.17	
6.747	29601	29470	0.996	0.08	
6.804	166193	149303	0.898	0.49	
6.845	164904	147884	0.897	0.49	
6.888	226668	204093	0.900	0.67	
6.927	87939	66006	0.751	0.26	
6.998	18454	16757	0.908	0.05	
7.030	76804	71132	0.926	0.22	
7.091	390032	353996	0.908	1.16	8 Aroclor 1260
7.119	45693	39609	0.867	0.13	
7.208	35017	20181	0.576	0.10	
7.337	232456	210917	0.907	0.69	8 Aroclor 1260
7.368	88823	69885	0.787	0.26	
7.422	29399	14988	0.510	0.08	
7.476	140898	130514	0.926	0.42	
7.528	170952	147134	0.861	0.51	8 Aroclor 1260
7.635	19114	16292	0.852	0.05	
7.748	11991	14592	1.217	0.03	
7.777	54301	47806	0.880	0.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.814	43050	28589	0.664	0.12	
7.887	28794	14049	0.488	0.08	
7.985	120422	104409	0.867	0.36	8 Aroclor 1260
8.361	80718	72994	0.904	0.24	
8.658	783864	693088	0.884	2.34	$ 12 Decachlorobiphenyl
9.528	12644	12758	1.009	0.03	
9.806	16228	7368	0.454	0.04	
	33424884	29210991		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718038.D
Lab Smp Id: 40157948012 Client Smp ID: ND1-170828-01-SPSH-
Inj Date : 07-MAY-2018 23:05
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948012 x20,
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: 38
Dil Factor: 20.00000
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	20.000	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	10.034	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

2.550	2.549	0.001	628043	0.00521	52			

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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			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	1560640	0.65426	6500	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	920655	0.21676	2200	0.00- 20.00	58.99	BA
4.897	4.898	-0.001	871018	0.42759	4300	0.00- 20.00	55.81	BA
4.963	4.963	0.000	1927057	0.35182	3500	0.00- 20.00	123.48	BA
5.123	5.123	0.000	783416	0.20707	2100	0.00- 20.00	50.20	BA
Average of Peak Concentrations =					3700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	1291990	0.22909	2300	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	911053	0.19535	1900	0.00- 20.00	70.52	BA
5.595	5.596	-0.001	1635564	0.19103	1900	0.00- 20.00	126.59	BA
6.111	6.113	-0.002	938341	0.17662	1800	0.00- 20.00	72.63	BA
6.386	6.387	-0.001	1525331	0.20835	2100	0.00- 20.00	118.06	BA
Average of Peak Concentrations =					2000			
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	390031	0.03314	330	0.00- 20.00	25.57	BA
7.337	7.338	-0.001	232455	0.04110	410	0.00- 20.00	15.24	BA
7.528	7.529	-0.001	170951	0.05000	500	0.00- 20.00	11.21	BA
7.985	7.987	-0.002	120421	0.03802	380	0.00- 20.00	7.89	BA
Average of Peak Concentrations =					400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	783863	0.00589	59			

QC Flag Legend

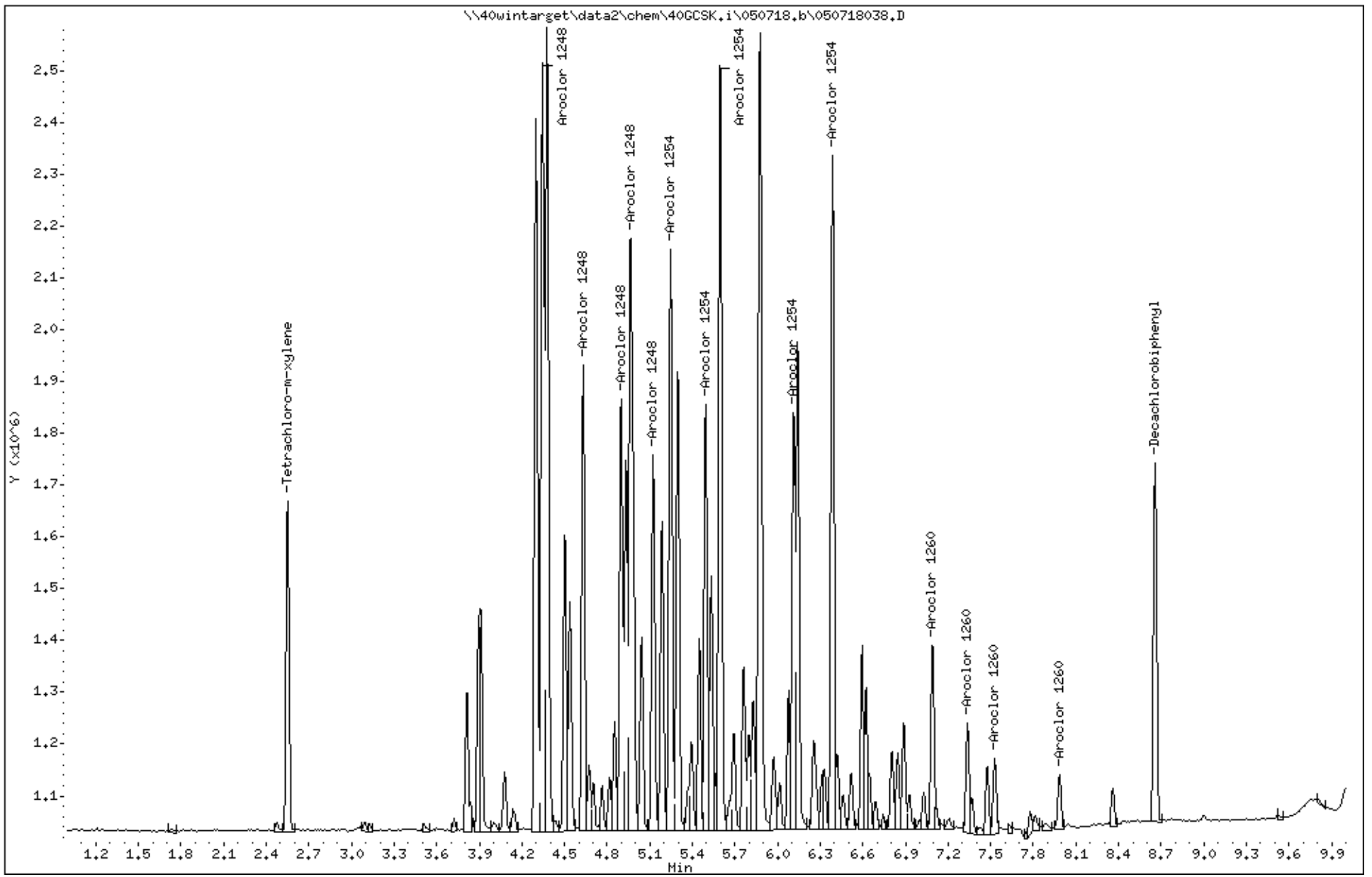
M - Compound response manually integrated.

Review Codes Legend

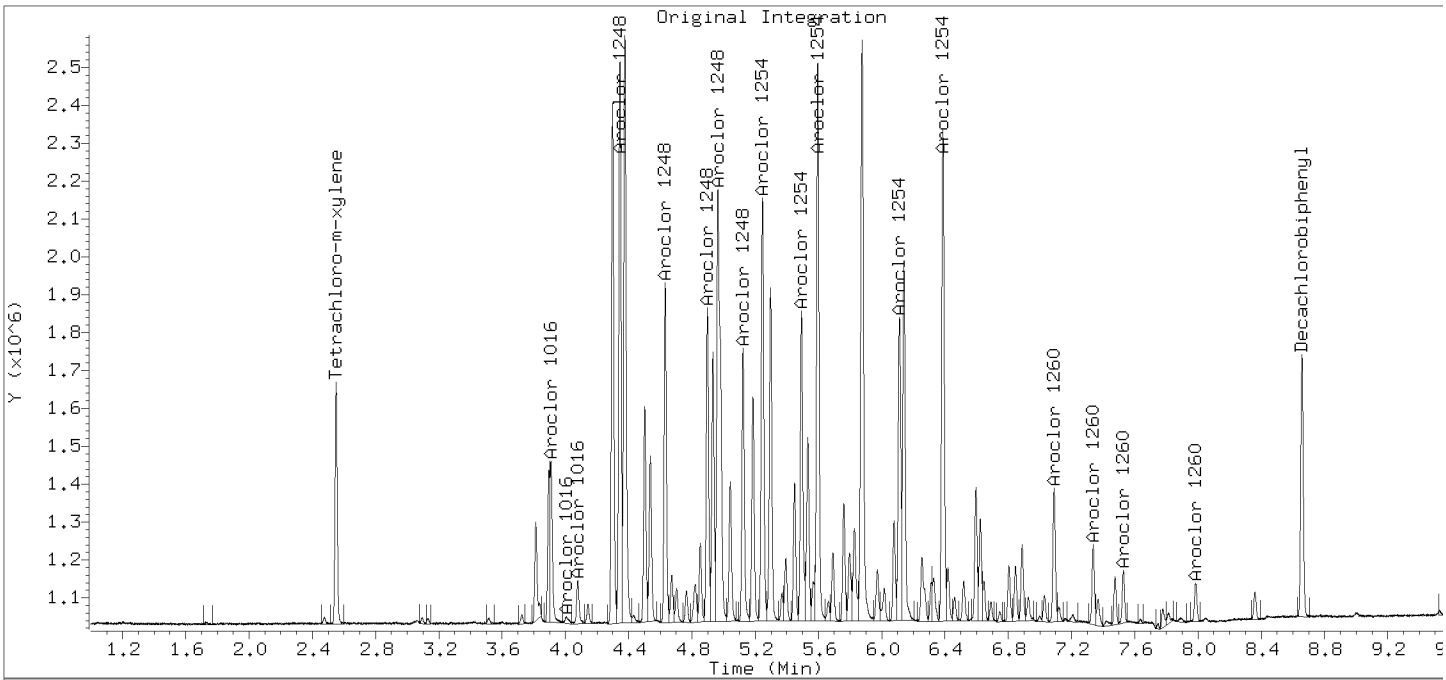
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

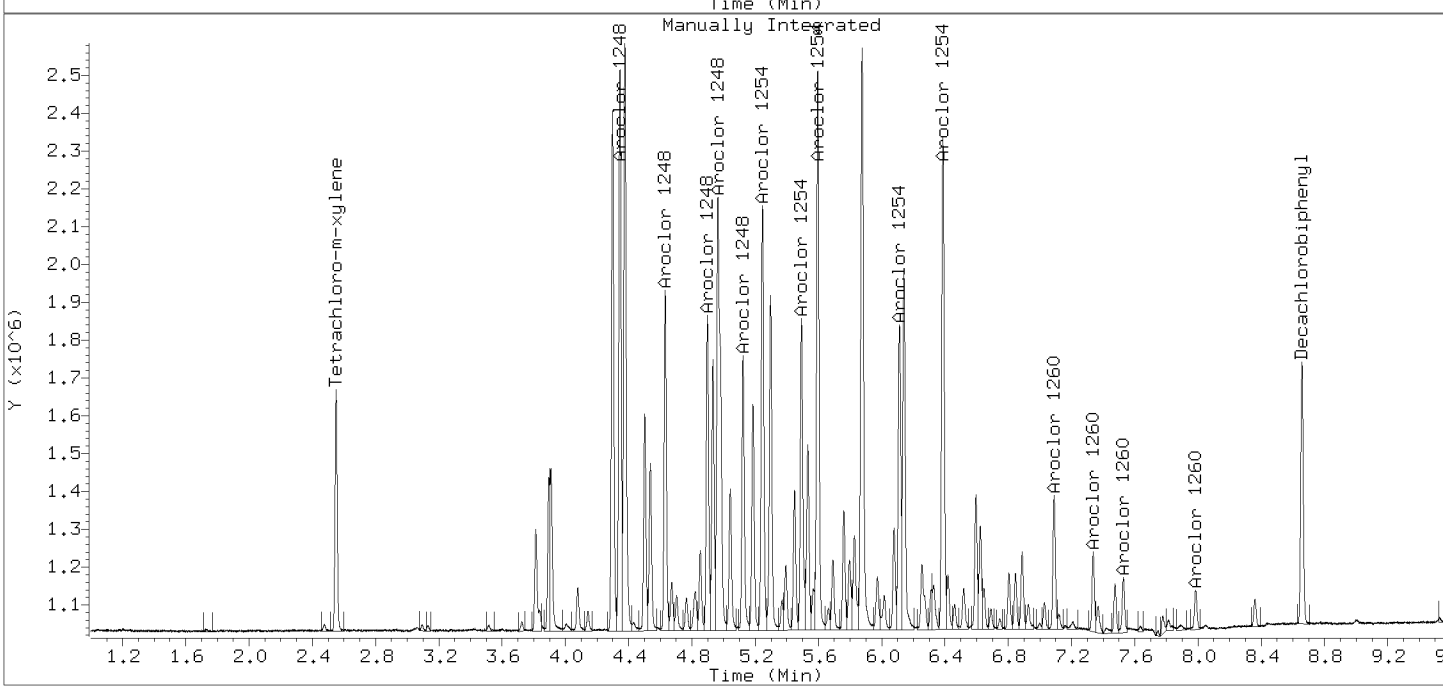
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718038.D
Date : 07-MAY-2018 23:05
Client ID: ND1-170828-01-SPSH-
Sample Info: 40157948012 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718038.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 23:05 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948012





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	1553912	1560640	BA
Aroclor 1248	1553912	1560640	BA
Aroclor 1248	1553912	1560640	BA
Aroclor 1248	1553912	1560640	BA
Aroclor 1248	1553912	1560640	BA
Aroclor 1254	1273796	1291990	BA
Aroclor 1254	1273796	1291990	BA
Aroclor 1254	1273796	1291990	BA
Aroclor 1254	1273796	1291990	BA
Aroclor 1254	1273796	1291990	BA
Aroclor 1260	1514647	0	BA
Aroclor 1260	1514647	0	BA
Aroclor 1260	1514647	0	BA
Aroclor 1260	1514647	0	BA
Aroclor 1260	1514647	0	BA
Tetrachloro-m-xylene	628043	628043	
Decachlorobiphenyl	783863	783863	

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SAMPLE NO.

ND1-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40157948013
Date Analyzed: 05/10/2018 08:58
Lab File ID: 051018.B\051018007.D
Initial wt/vol: 10.0361 Final wt/vol: 5 mL Dilution: 6
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<68.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	212	J
11141-16-5	PCB-1232 (Aroclor 1232)	<68.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<68.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	1650	
11097-69-1	PCB-1254 (Aroclor 1254)	926	
11096-82-5	PCB-1260 (Aroclor 1260)	131	J
1336-36-3	PCB, Total	2920	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018007.D
Lab Smp Id: 40157948013 Client Smp ID: ND1-170828-01-PKSD-
Inj Date : 10-MAY-2018 08:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948013 x6,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7
Dil Factor: 6.00000
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	6.000	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	10.036	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.728	10905	11017	1.010	0.02			
2.355	12177	10621	0.872	0.02			
2.379	12929	13050	1.009	0.02			
2.476	121652	99548	0.818	0.23		1 Aroclor 1221	BA
2.549	1900697	1890486	0.995	3.61	$	2 Tetrachloro-m-xylene	BA
2.755	18716	10969	0.586	0.03		1 Aroclor 1221	BA
2.863	24611	15619	0.635	0.04		1 Aroclor 1221	BA
2.924	59229	46484	0.785	0.11		1 Aroclor 1221	BA
3.095	21500	17828	0.829	0.04			
3.131	177755	171763	0.966	0.33			
3.395	112412	111478	0.992	0.21			
3.423	165758	153066	0.923	0.31			
3.513	309539	295881	0.956	0.58			
3.599	366545	341103	0.931	0.69			
3.726	50615	40545	0.801	0.09			
3.813	316614	304873	0.963	0.60			
3.837	124936	110829	0.887	0.23			
3.895	1226036	743901	0.607	2.33			
4.020	330239	268680	0.814	0.62			
4.077	330411	290266	0.878	0.62			
4.143	120412	107382	0.892	0.22			
4.221	19300	15733	0.815	0.03			
4.298	1969005	1818935	0.924	3.75			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.345	2076045	1946946	0.938	3.95	6 Aroclor 1248
4.376	2245769	1876821	0.836	4.27	
4.502	591848	558011	0.943	1.12	
4.537	703429	619493	0.881	1.33	
4.631	1503103	1393822	0.927	2.86	6 Aroclor 1248
4.673	150288	131765	0.877	0.28	
4.703	92572	76393	0.825	0.17	
4.765	128540	113264	0.881	0.24	
4.817	199302	132591	0.665	0.37	
4.854	299302	276180	0.923	0.57	
4.898	1251186	1168005	0.934	2.38	6 Aroclor 1248
4.933	1498005	1415087	0.945	2.85	
4.965	3182935	2103393	0.661	6.64	6 Aroclor 1248
5.044	555104	455325	0.820	1.05	
5.123	1297557	1188888	0.916	2.47	6 Aroclor 1248
5.187	899316	813115	0.904	1.71	
5.247	1972945	1730021	0.877	3.75	7 Aroclor 1254
5.298	1574136	1415719	0.899	2.99	
5.369	163527	149558	0.915	0.31	
5.395	203260	157079	0.773	0.38	
5.449	692215	644816	0.932	1.31	
5.494	1390792	1219905	0.877	2.64	7 Aroclor 1254
5.534	1126626	1000350	0.888	2.14	
5.571	136402	132481	0.971	0.25	
5.597	2426301	2116290	0.872	4.62	7 Aroclor 1254
5.660	77356	66148	0.855	0.14	
5.692	338402	296150	0.875	0.64	
5.762	462755	432393	0.934	0.88	
5.798	266079	206638	0.777	0.50	
5.827	470894	338406	0.719	0.89	
5.877	3053426	2454731	0.804	5.81	
5.974	306481	208059	0.679	0.58	
6.017	158322	114481	0.723	0.30	
6.080	359037	333492	0.929	0.68	
6.112	1606139	1416867	0.882	3.05	7 Aroclor 1254
6.141	1451477	1243964	0.857	2.76	
6.208	29802	20343	0.683	0.05	
6.256	368597	266624	0.723	0.70	
6.314	161235	159535	0.989	0.30	
6.330	185901	164168	0.883	0.35	
6.387	2309937	1914523	0.829	4.39	7 Aroclor 1254
6.421	249881	225286	0.902	0.47	
6.462	124594	100864	0.810	0.23	
6.519	176573	133170	0.754	0.33	
6.597	469093	435122	0.928	0.89	
6.625	602080	446381	0.741	1.14	
6.691	89386	71624	0.801	0.17	
6.748	41325	36532	0.884	0.07	
6.806	179765	158244	0.880	0.34	
6.846	176549	154273	0.874	0.33	
6.889	339300	306469	0.903	0.64	
6.928	141404	101590	0.718	0.26	
7.002	30444	23243	0.763	0.05	
7.030	109892	89299	0.813	0.20	
7.090	440053	395243	0.898	0.83	8 Aroclor 1260
7.122	67014	53530	0.799	0.12	
7.161	20586	17274	0.839	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.207	41991	21839	0.520	0.07	
7.338	259070	233528	0.901	0.49	8 Aroclor 1260
7.368	122075	95970	0.786	0.23	
7.477	140602	136205	0.969	0.26	
7.529	182941	145154	0.793	0.34	8 Aroclor 1260
7.627	17558	13533	0.771	0.03	
7.744	24943	21028	0.843	0.04	
7.781	57736	56222	0.974	0.10	
7.817	51952	35788	0.689	0.09	
7.839	20540	18518	0.902	0.03	
7.892	34511	19448	0.564	0.06	
7.987	120275	96505	0.802	0.22	8 Aroclor 1260
8.047	28611	15273	0.534	0.05	
8.137	41819	33003	0.789	0.07	
8.359	87374	80720	0.924	0.16	
8.502	12778	11870	0.929	0.02	
8.658	2178156	1911119	0.877	4.14	$ 12 Decachlorobiphenyl
9.256	28101	24427	0.869	0.05	
9.527	28871	16863	0.584	0.05	
	52506184	45097054		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018007.D
Lab Smp Id: 40157948013 Client Smp ID: ND1-170828-01-PKSD-
Inj Date : 10-MAY-2018 08:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948013 x6,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7
Dil Factor: 6.00000
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	6.000	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	10.036	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	121651	0.23076	690	0.00- 20.00	0.00	BA
2.754	2.758	-0.004	18715	0.01349	40	0.00- 20.00	0.00	BA
2.865	2.860	0.005	24611	0.02230	67	0.00- 20.00	0.00	BA
2.924	2.923	0.001	59229	0.01772	53	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					210			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	1900696	0.01578	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
4.345    4.343    0.002         2076045 0.87033     2600   0.00-  20.00   100.00(M)      BA
4.630    4.630    0.000         1503103 0.35388     1000   0.00-  20.00    72.40         BA
4.898    4.898    0.000         1251185 0.61422     1800   0.00-  20.00    60.27         BA
4.964    4.963    0.001         3182934 0.58110     1700   0.00-  20.00   153.32         BA
5.123    5.123    0.000         1297557 0.34297     1000   0.00-  20.00    62.50         BA
               Average of Peak Concentrations =     1600
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.247    5.248   -0.001         1972944 0.34984     1000   0.00-  20.00   100.00(M)      BA
5.494    5.492    0.002         1390792 0.29821      890   0.00-  20.00    70.49         BA
5.596    5.596    0.000         2426301 0.28338      850   0.00-  20.00   122.98         BA
6.112    6.113   -0.001         1606139 0.30231      900   0.00-  20.00    81.41         BA
6.386    6.387   -0.001         2309937 0.31552      940   0.00-  20.00   117.08         BA
               Average of Peak Concentrations =      930
-------------------------------------------------------------------------------
    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          440052 0.03739      110   0.00-  20.00    19.05         BA
7.338    7.338    0.000          259069 0.04580      140   0.00-  20.00    11.22         BA
7.528    7.529   -0.001          182940 0.05351      160   0.00-  20.00     7.92         BA
7.986    7.987   -0.001          120275 0.03798      110   0.00-  20.00     5.21         BA
               Average of Peak Concentrations =      130
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.658    8.657    0.001         2178156 0.01635       49
-------------------------------------------------------------------------------
```

QC Flag Legend

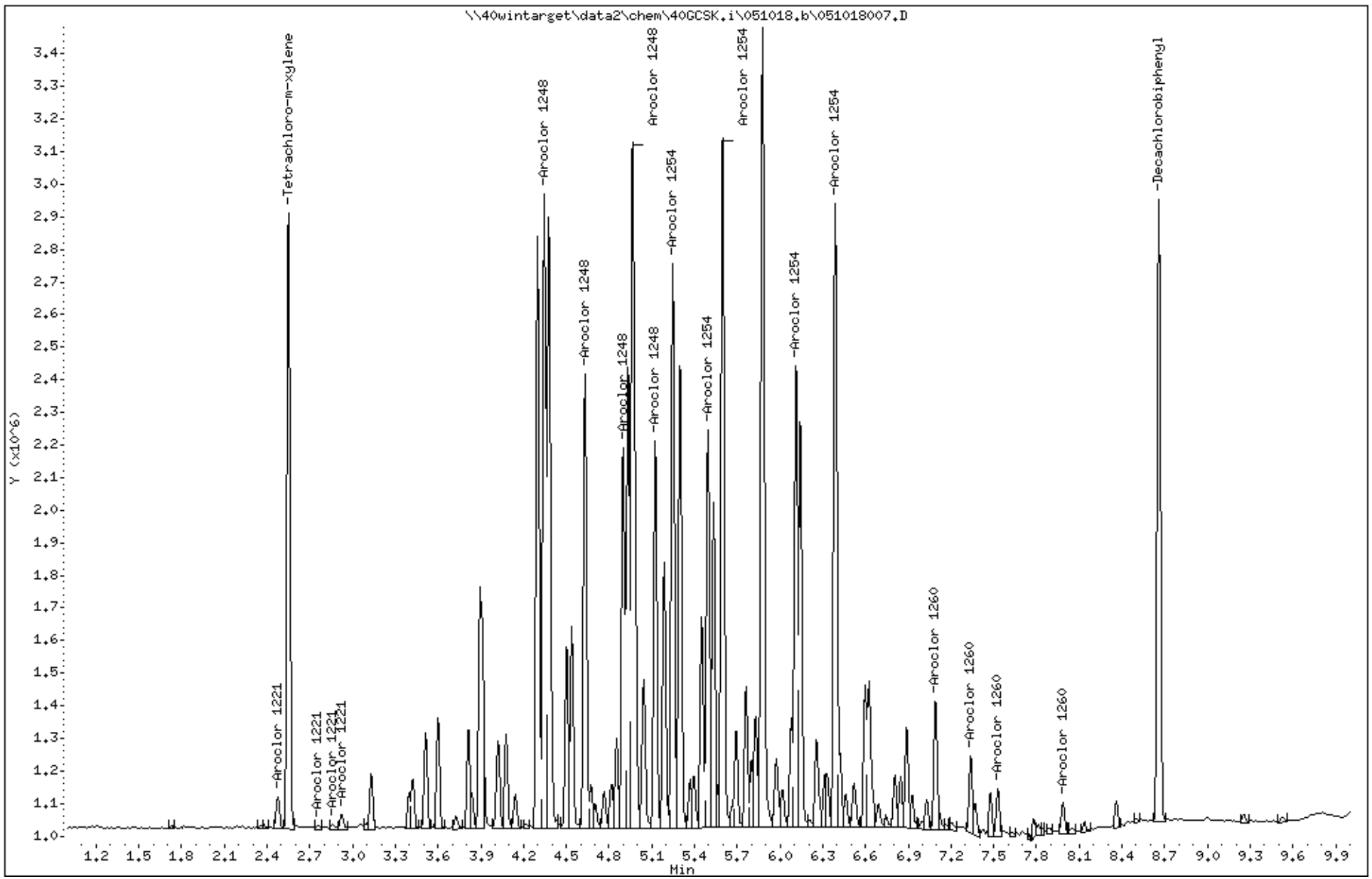
M - Compound response manually integrated.

Review Codes Legend

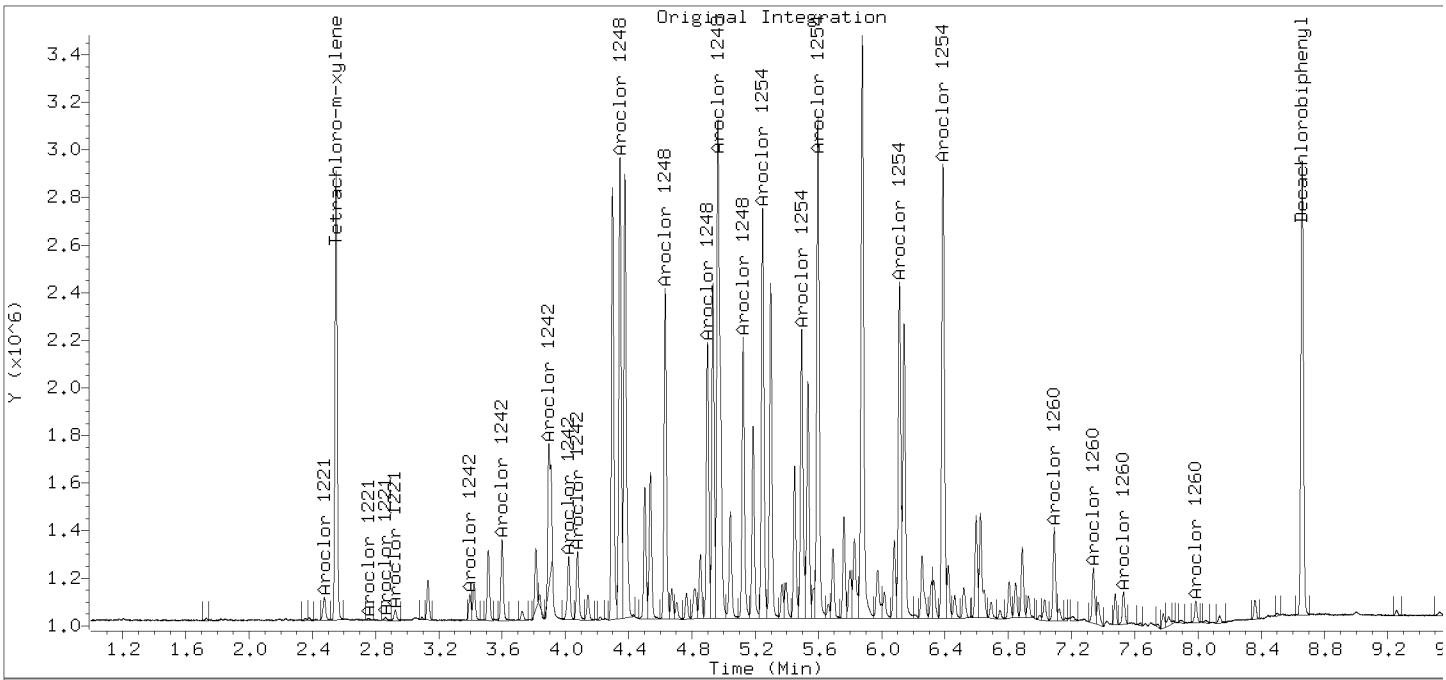
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

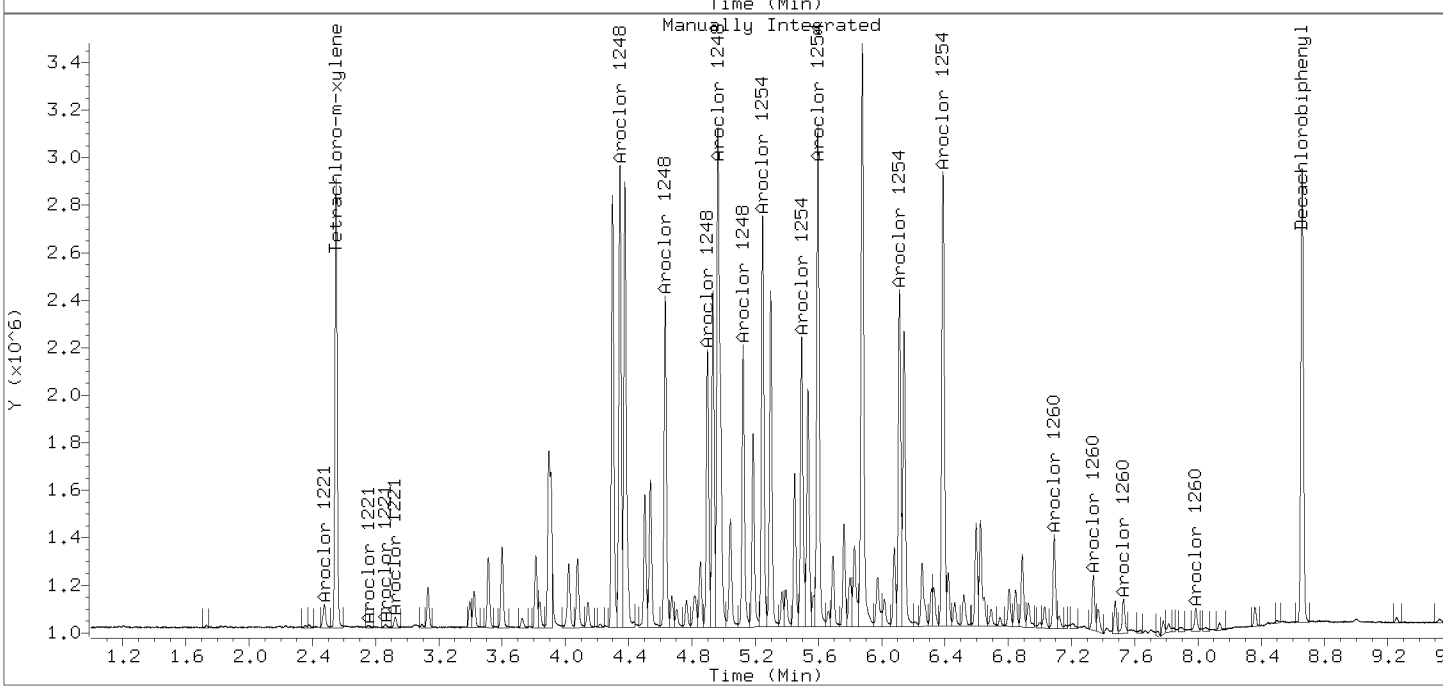
Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018007.D
Date : 10-MAY-2018 08:58
Client ID: ND1-170828-01-PKSD-
Sample Info: 40157948013 x6,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-MAY-2018 08:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	112412	0	
Aroclor 1016	112412	0	
Aroclor 1016	112412	0	
Aroclor 1016	112412	0	
Aroclor 1016	112412	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	56853	0	
Aroclor 1232	56853	0	
Aroclor 1232	56853	0	
Aroclor 1232	56853	0	

Aroclor 1232	56853	0	
Aroclor 1242	112412	0	
Aroclor 1242	112412	0	
Aroclor 1242	112412	0	
Aroclor 1242	112412	0	
Aroclor 1242	112412	0	
Aroclor 1248	2054803	2076045	BA
Aroclor 1248	2054803	2076045	BA
Aroclor 1248	2054803	2076045	BA
Aroclor 1248	2054803	2076045	BA
Aroclor 1248	2054803	2076045	BA
Aroclor 1254	1953482	1972944	BA
Aroclor 1254	1953482	1972944	BA
Aroclor 1254	1953482	1972944	BA
Aroclor 1254	1953482	1972944	BA
Aroclor 1254	1953482	1972944	BA
Aroclor 1260	2293845	0	BA
Aroclor 1260	2293845	0	BA
Aroclor 1260	2293845	0	BA
Aroclor 1260	2293845	0	BA
Aroclor 1260	2293845	0	BA
Tetrachloro-m-xylene	1879283	1900696	BA
Decachlorobiphenyl	2178156	2178156	

==========

SAMPLE NO.

ND1-170828-01-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40157948014
Date Analyzed: 05/07/2018 17:01
Lab File ID: 050718.B\050718015.D
Initial wt/vol: 10.0131 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)	325	
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)	1250	
11097-69-1	PCB-1254 (Aroclor 1254)	551	
11096-82-5	PCB-1260 (Aroclor 1260)	132	J
1336-36-3	PCB, Total	2260	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718015.D
Lab Smp Id: 40157948014 Client Smp ID: ND1-170828-01-GOSH-
Inj Date : 07-MAY-2018 17:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948014 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: 15
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	10.013	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.822	15265	14297	0.937	0.03			
2.477	242392	198096	0.817	0.49		1 Aroclor 1221	BA
2.550	2251799	2253392	1.001	4.56	$	2 Tetrachloro-m-xylene	BA
2.751	23672	15184	0.641	0.04		1 Aroclor 1221	BA
2.860	26259	18832	0.717	0.05		1 Aroclor 1221	BA
2.924	64368	50352	0.782	0.13		1 Aroclor 1221	BA
3.047	11361	13168	1.159	0.02			
3.063	19679	20272	1.030	0.03			
3.095	36989	36240	0.980	0.07			
3.131	542387	526640	0.971	1.09			
3.396	161656	163892	1.014	0.32			
3.424	199816	189060	0.946	0.40			
3.513	779771	758190	0.972	1.58			
3.599	378955	352506	0.930	0.76			
3.727	139864	119758	0.856	0.28			
3.813	453130	428725	0.946	0.91			
3.837	107872	107683	0.998	0.21			
3.896	1169865	671269	0.574	2.37			
4.021	816732	748214	0.916	1.65			
4.077	342187	302591	0.884	0.69			
4.142	208396	187827	0.901	0.42			
4.220	43649	39403	0.903	0.08			
4.298	2491264	2222340	0.892	5.04			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.345	2345513	2187199	0.933	4.75	6 Aroclor 1248
4.376	2867953	2433213	0.848	6.32	
4.431	70144	51622	0.736	0.14	
4.502	767296	715374	0.932	1.55	
4.538	720846	637665	0.885	1.46	
4.631	1502184	1383257	0.921	3.04	6 Aroclor 1248
4.673	268019	235549	0.879	0.54	
4.703	183217	156126	0.852	0.37	
4.765	177943	149303	0.839	0.36	
4.820	204537	165665	0.810	0.41	
4.853	346913	323228	0.932	0.70	
4.898	1021526	967419	0.947	2.07	6 Aroclor 1248
4.933	656680	601997	0.917	1.33	
4.964	2418320	1270116	0.525	4.90	6 Aroclor 1248
5.042	561992	471163	0.838	1.13	
5.124	842100	752597	0.894	1.70	6 Aroclor 1248
5.186	1036552	911024	0.879	2.10	
5.246	1473191	1255758	0.852	2.98	7 Aroclor 1254
5.298	1232170	1055424	0.857	2.49	
5.370	115909	115620	0.998	0.23	
5.393	334621	276850	0.827	0.67	
5.449	405526	367194	0.905	0.82	
5.493	1023538	920380	0.899	2.07	7 Aroclor 1254
5.533	721481	613125	0.850	1.46	
5.567	154787	136413	0.881	0.31	
5.596	1749718	1556031	0.889	3.54	7 Aroclor 1254
5.664	77551	65292	0.842	0.15	
5.691	257642	225330	0.875	0.52	
5.760	445128	410108	0.921	0.90	
5.798	243742	187979	0.771	0.49	
5.827	343820	255116	0.742	0.69	
5.876	2105533	1661604	0.789	4.26	
5.974	236313	169682	0.718	0.47	
6.015	187044	147704	0.790	0.37	
6.079	354650	321872	0.908	0.71	
6.111	929467	828362	0.891	1.88	7 Aroclor 1254
6.141	1294445	1110859	0.858	2.62	
6.254	280365	188792	0.673	0.56	
6.314	99329	117559	1.184	0.20	
6.329	175649	132502	0.754	0.35	
6.387	1780837	1469306	0.825	3.60	7 Aroclor 1254
6.420	183226	156818	0.856	0.37	
6.461	90570	71964	0.795	0.18	
6.518	173702	135648	0.781	0.35	
6.596	325465	301912	0.928	0.65	
6.624	354232	315804	0.892	0.71	
6.646	122959	116365	0.946	0.24	
6.690	69911	59535	0.852	0.14	
6.748	26736	23549	0.881	0.05	
6.805	136536	121180	0.888	0.27	
6.846	162254	144002	0.888	0.32	
6.888	243579	214540	0.881	0.49	
6.927	94681	74798	0.790	0.19	
7.001	22535	22427	0.995	0.04	
7.028	144958	121808	0.840	0.29	
7.089	505965	447952	0.885	1.02	8 Aroclor 1260
7.122	56445	46785	0.829	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.207	49141	27942	0.569	0.09	
7.259	25840	13501	0.522	0.05	
7.337	270845	241231	0.891	0.54	8 Aroclor 1260
7.367	111608	81409	0.729	0.22	
7.423	49621	25501	0.514	0.10	
7.475	130576	127503	0.976	0.26	
7.527	223873	166658	0.744	0.45	8 Aroclor 1260
7.635	20019	18697	0.934	0.04	
7.698	18388	12402	0.674	0.03	
7.746	26389	25625	0.971	0.05	
7.779	66193	57984	0.876	0.13	
7.813	42985	35041	0.815	0.08	
7.889	32713	17957	0.549	0.06	
7.985	172234	154880	0.899	0.34	8 Aroclor 1260
8.047	13417	12125	0.904	0.02	
8.359	122085	111701	0.915	0.24	
8.437	29303	19941	0.681	0.05	
8.656	2542754	2204863	0.867	5.15	$ 12 Decachlorobiphenyl
8.997	47509	29997	0.631	0.09	
9.252	18549	17834	0.961	0.03	
9.527	67186	42343	0.630	0.13	
	49336504	42259532		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718015.D
Lab Smp Id: 40157948014 Client Smp ID: ND1-170828-01-GOSH-
Inj Date : 07-MAY-2018 17:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40157948014 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: 15
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	10.013	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	242391	0.45978	1100	0.00- 20.00	1587.89	BA
2.751	2.758	-0.007	23671	0.01707	43	0.00- 20.00	155.07	BA
2.859	2.860	-0.001	26258	0.02379	59	0.00- 20.00	172.02	BA
2.923	2.923	0.000	64368	0.01925	48	0.00- 20.00	421.67	BA
Average of Peak Concentrations =					320			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	2251799	0.01870	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
4.344    4.343    0.001         2345512 0.98330     2400   0.00-  20.00   100.00(M)      BA
4.630    4.630    0.000         1502183 0.35367      880   0.00-  20.00    64.04         BA
4.897    4.898   -0.001         1021526 0.50148     1200   0.00-  20.00    43.55         BA
4.964    4.963    0.001         2418320 0.44151     1100   0.00-  20.00   103.10         BA
5.123    5.123    0.000          842099 0.22258      560   0.00-  20.00    35.90         BA
               Average of Peak Concentrations =     1200
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.245    5.248   -0.003         1473191 0.26122      650   0.00-  20.00   100.00(M)      BA
5.492    5.492    0.000         1023538 0.21947      550   0.00-  20.00    69.48         BA
5.595    5.596   -0.001         1749717 0.20436      510   0.00-  20.00   118.77         BA
6.111    6.113   -0.002          929467 0.17495      440   0.00-  20.00    63.09         BA
6.386    6.387   -0.001         1780837 0.24325      610   0.00-  20.00   120.88         BA
               Average of Peak Concentrations =      550
-------------------------------------------------------------------------------
    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
7.088    7.090   -0.002          505965 0.04299      110   0.00-  20.00    28.41         BA
7.336    7.338   -0.002          270844 0.04788      120   0.00-  20.00    15.21         BA
7.526    7.529   -0.003          223873 0.06548      160   0.00-  20.00    12.57         BA
7.984    7.987   -0.003          172234 0.05438      140   0.00-  20.00     9.67         BA
               Average of Peak Concentrations =      130
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.655    8.657   -0.002         2542754 0.01909       48
-------------------------------------------------------------------------------
```

QC Flag Legend

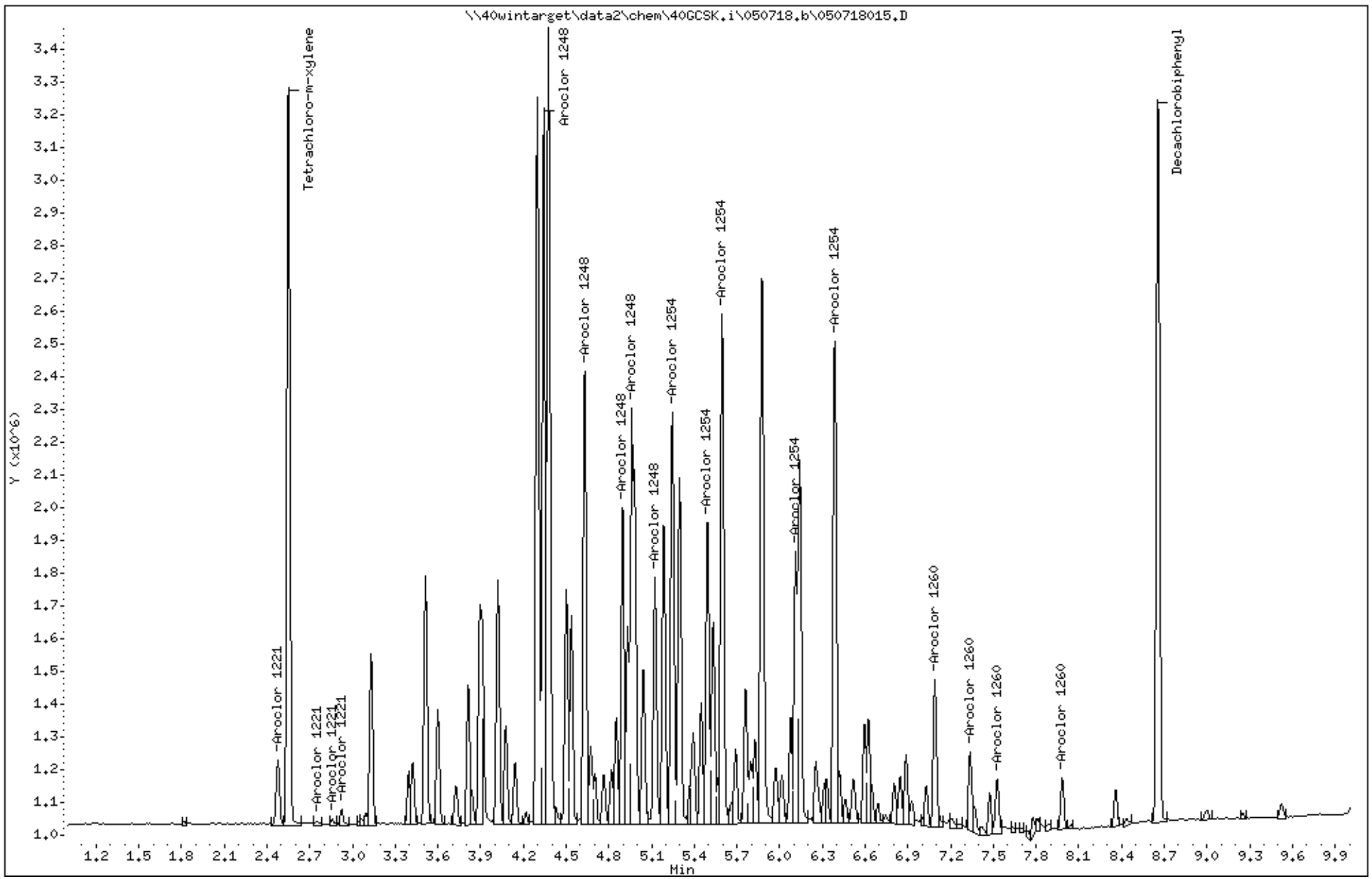
M - Compound response manually integrated.

Review Codes Legend

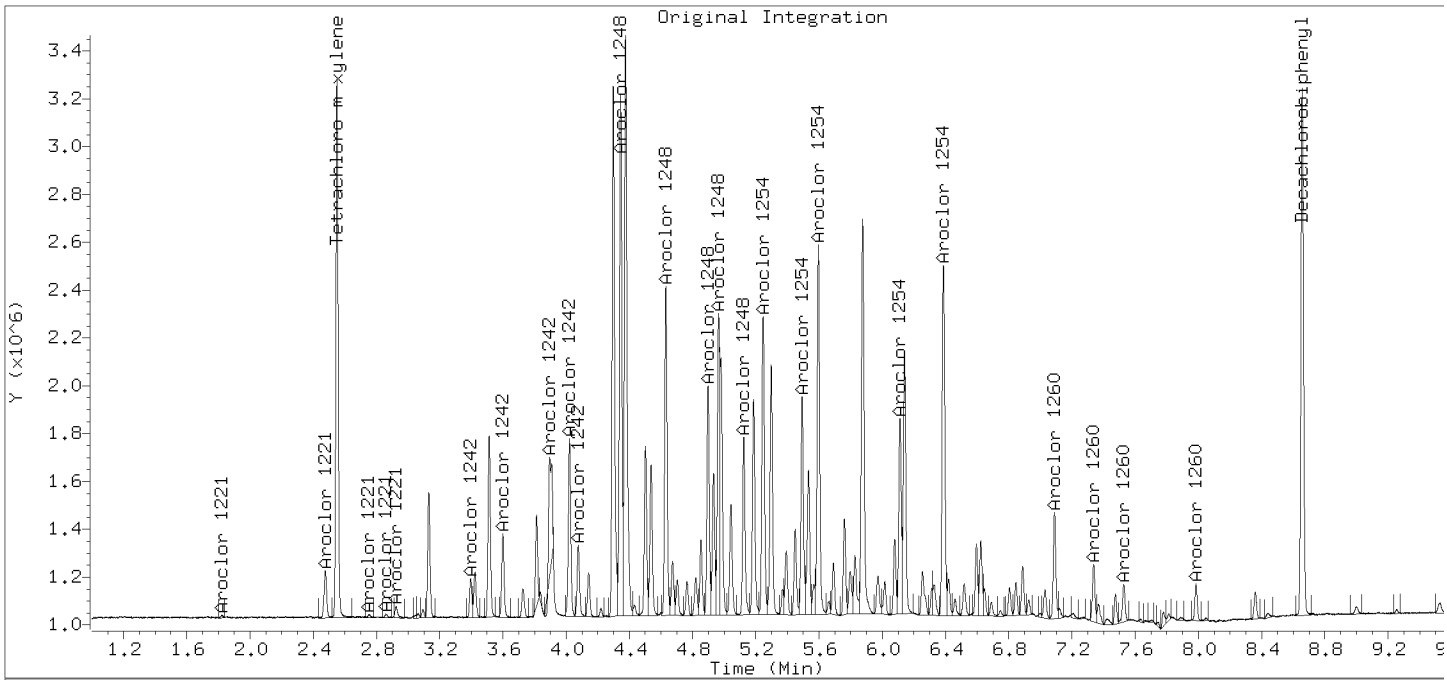
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

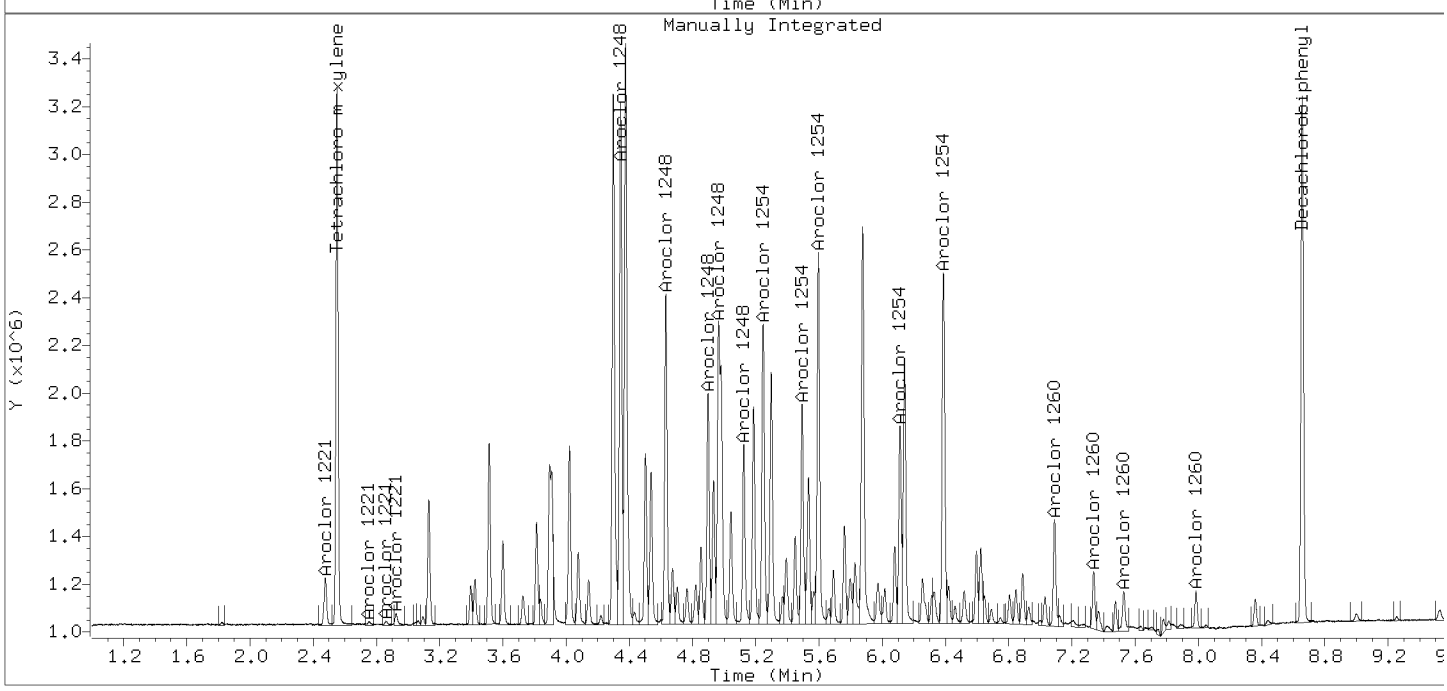
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718015.D
Date : 07-MAY-2018 17:01
Client ID: ND1-170828-01-GOSH-
Sample Info: 40157948014 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 17:01 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40157948014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	161656	0	
Aroclor 1016	161656	0	
Aroclor 1016	161656	0	
Aroclor 1016	161656	0	
Aroclor 1016	161656	0	
Aroclor 1221	12792	0	BA
Aroclor 1221	12792	0	BA
Aroclor 1221	12792	0	BA
Aroclor 1221	12792	0	BA
Aroclor 1221	12792	0	BA
Aroclor 1232	59471	0	
Aroclor 1232	59471	0	
Aroclor 1232	59471	0	
Aroclor 1232	59471	0	

Aroclor 1232	59471	0	
Aroclor 1242	161656	0	
Aroclor 1242	161656	0	
Aroclor 1242	161656	0	
Aroclor 1242	161656	0	
Aroclor 1242	161656	0	
Aroclor 1248	2325515	2345512	BA
Aroclor 1248	2325515	2345512	BA
Aroclor 1248	2325515	2345512	BA
Aroclor 1248	2325515	2345512	BA
Aroclor 1248	2325515	2345512	BA
Aroclor 1254	1442140	1473191	BA
Aroclor 1254	1442140	1473191	BA
Aroclor 1254	1442140	1473191	BA
Aroclor 1254	1442140	1473191	BA
Aroclor 1254	1442140	1473191	BA
Aroclor 1260	1768824	0	BA
Aroclor 1260	1768824	0	BA
Aroclor 1260	1768824	0	BA
Aroclor 1260	1768824	0	BA
Aroclor 1260	1768824	0	BA
Tetrachloro-m-xylene	2237272	2251799	BA
Decachlorobiphenyl	2542754	2542754	

==========

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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

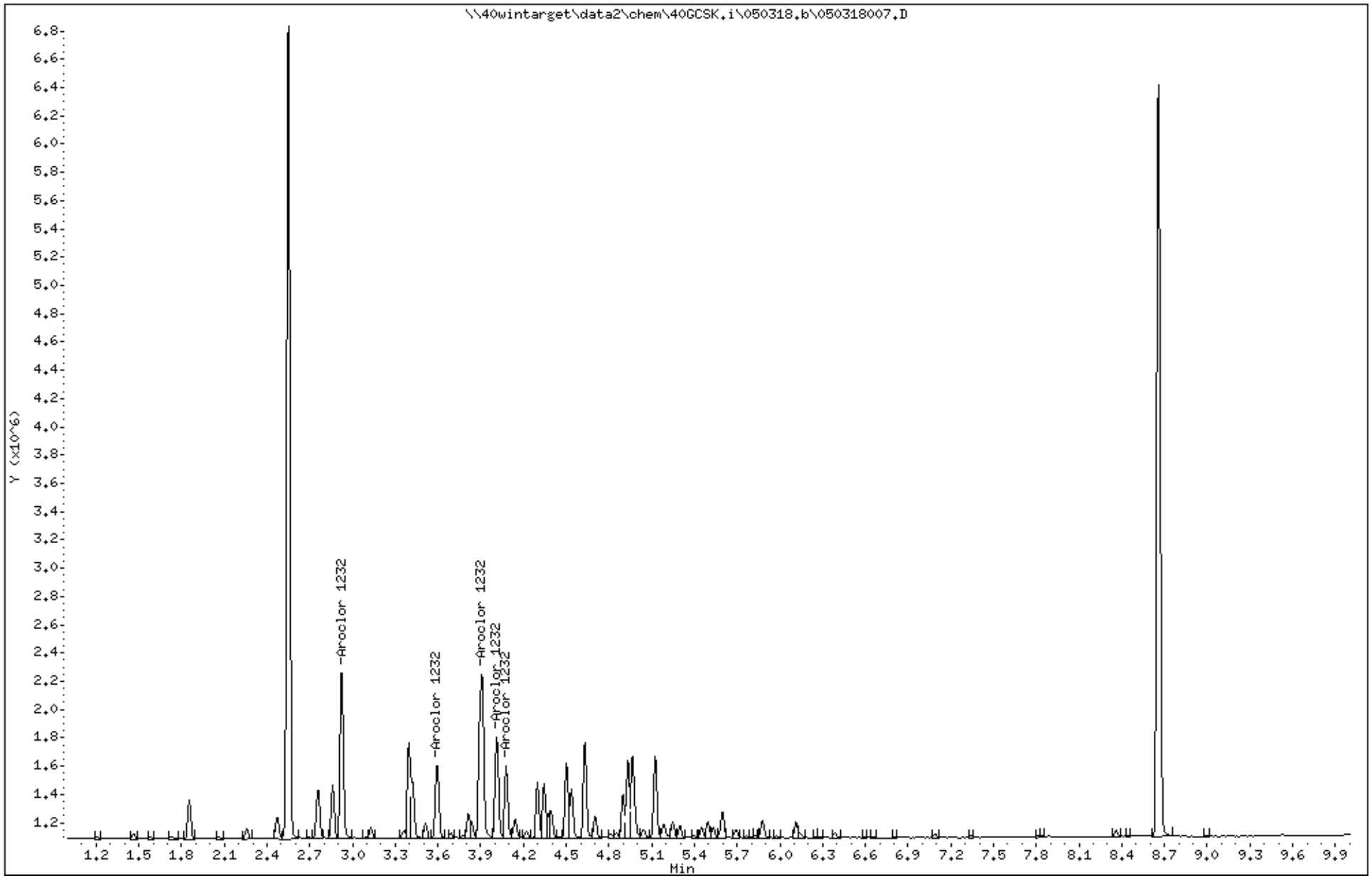
Instrument: 40GCSK.i

Sample Info: 1232-CAL3S, 185539:1

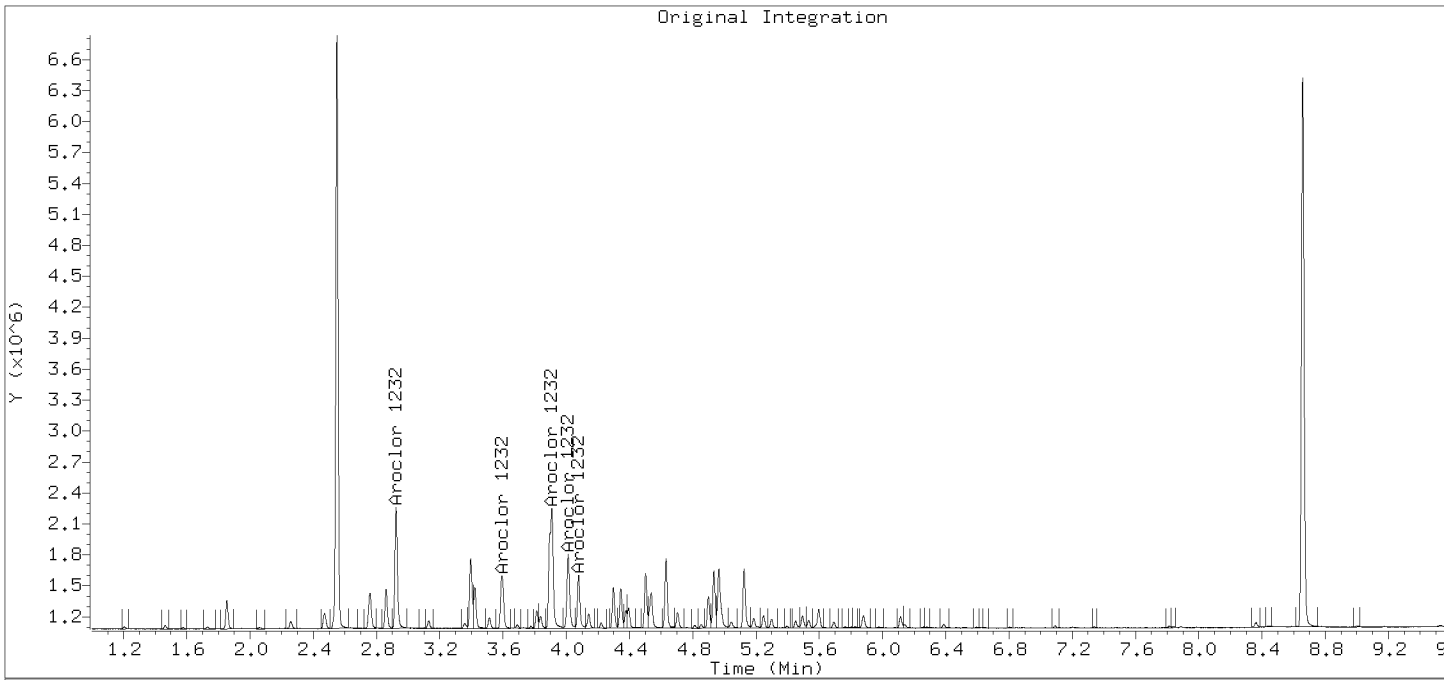
Operator: BLM

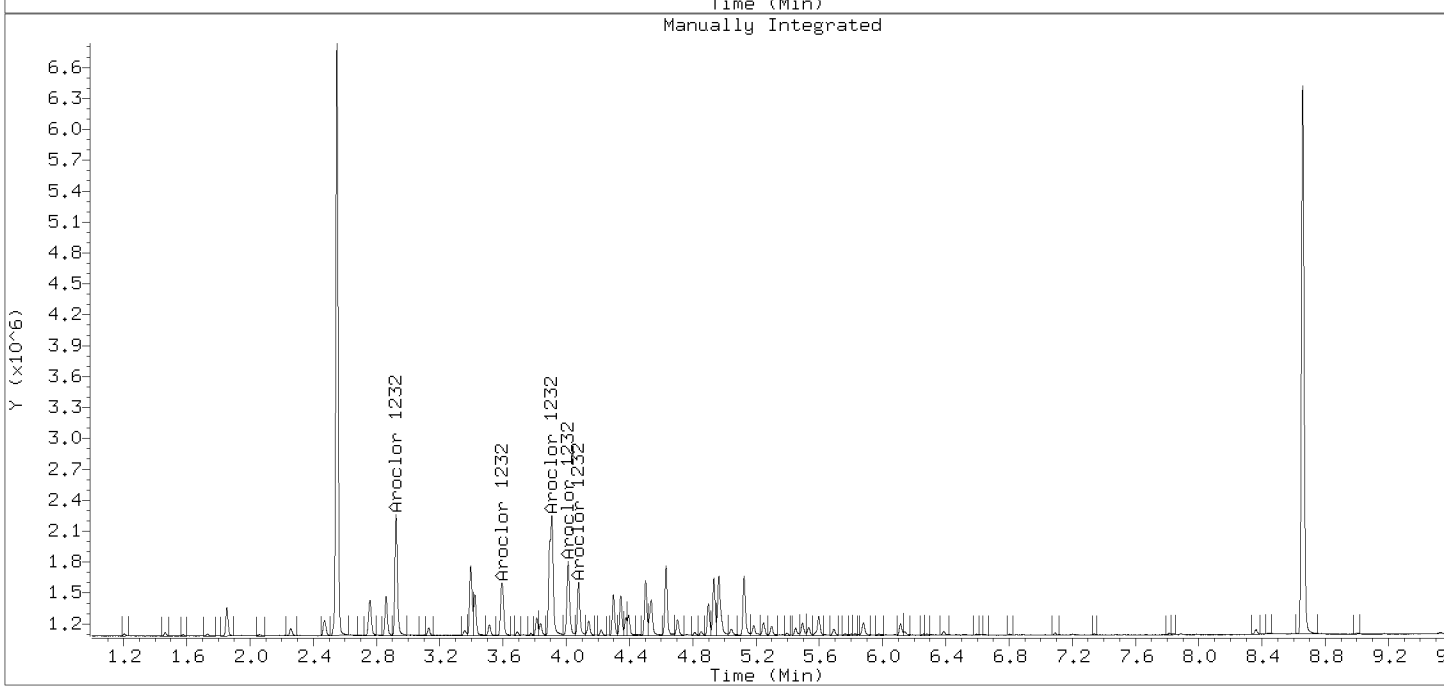
Column phase: ZB-1ms

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.

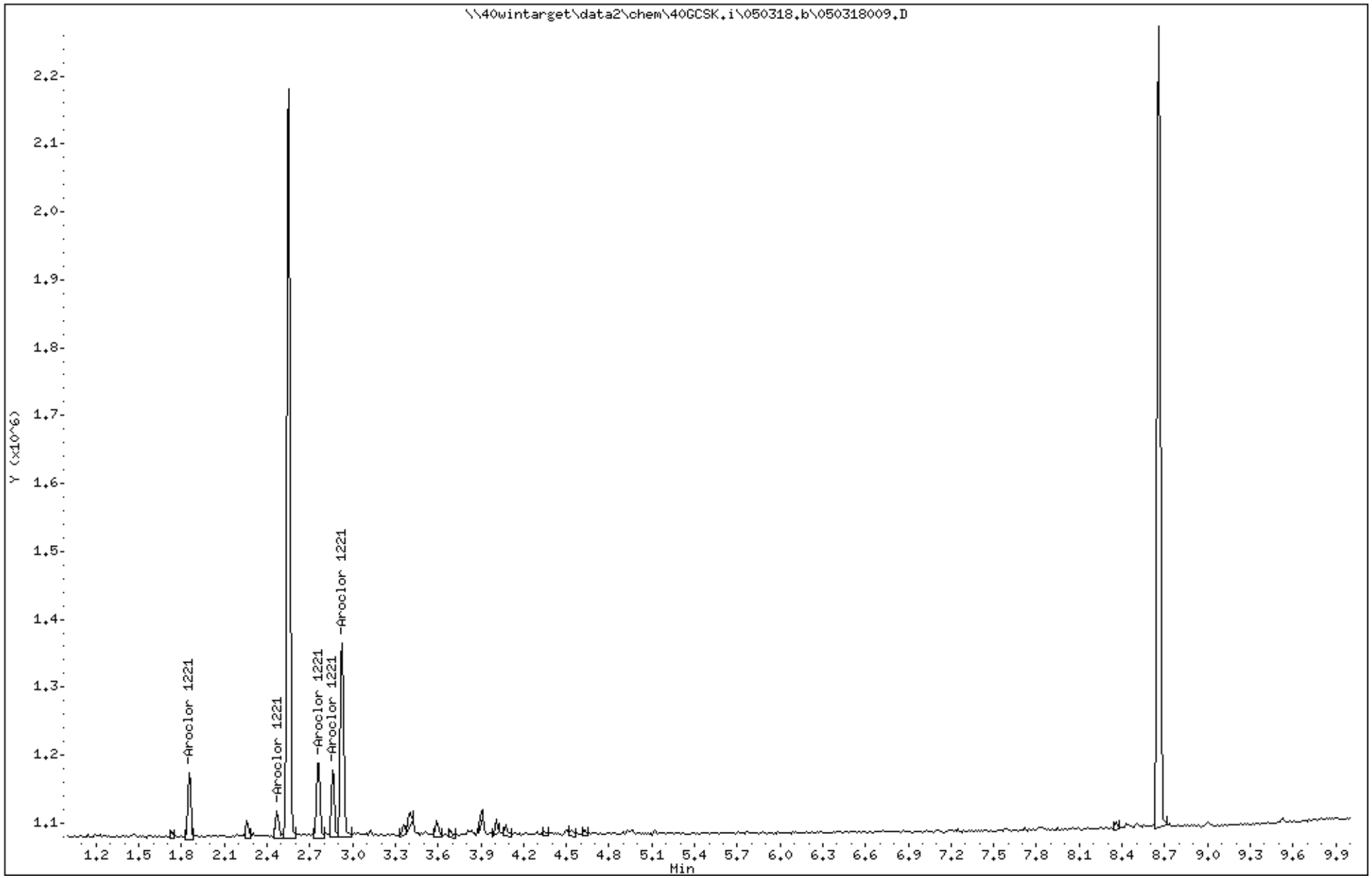
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Date : 03-MAY-2018 10:54
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSK.i

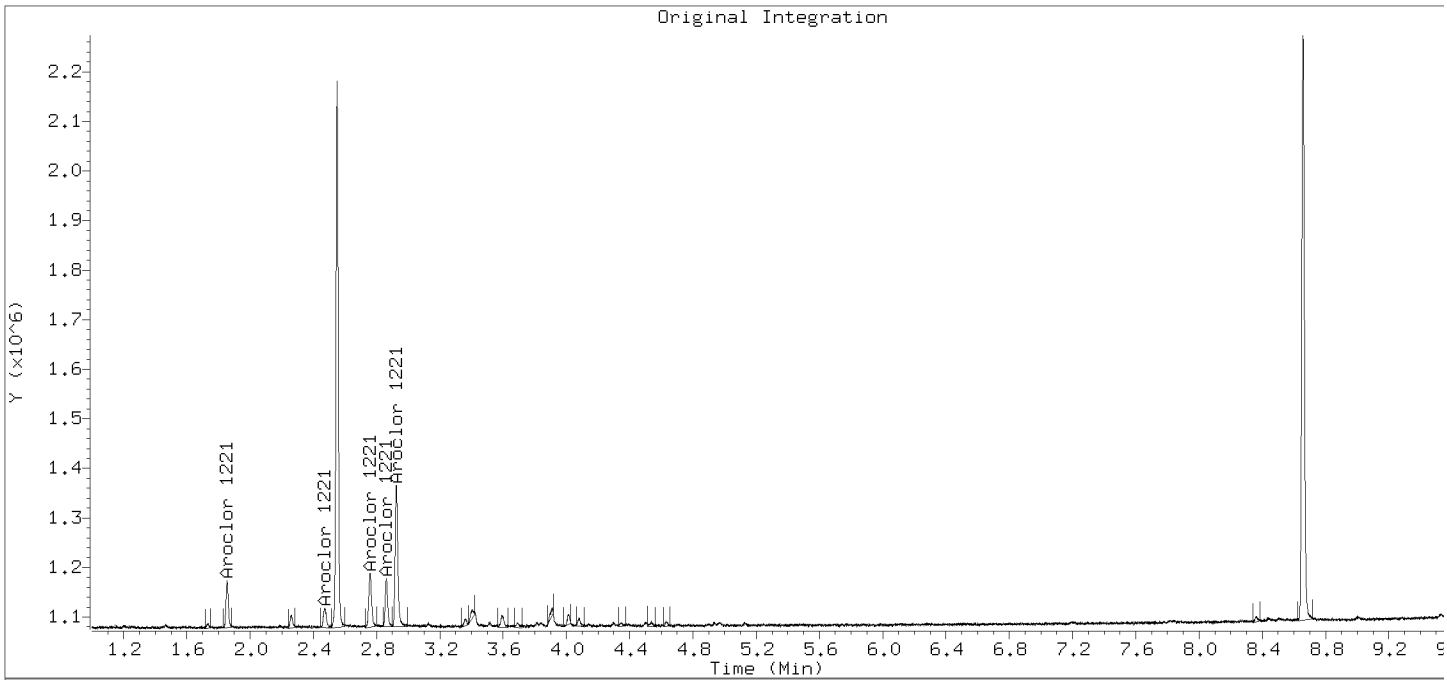
Operator: BLM

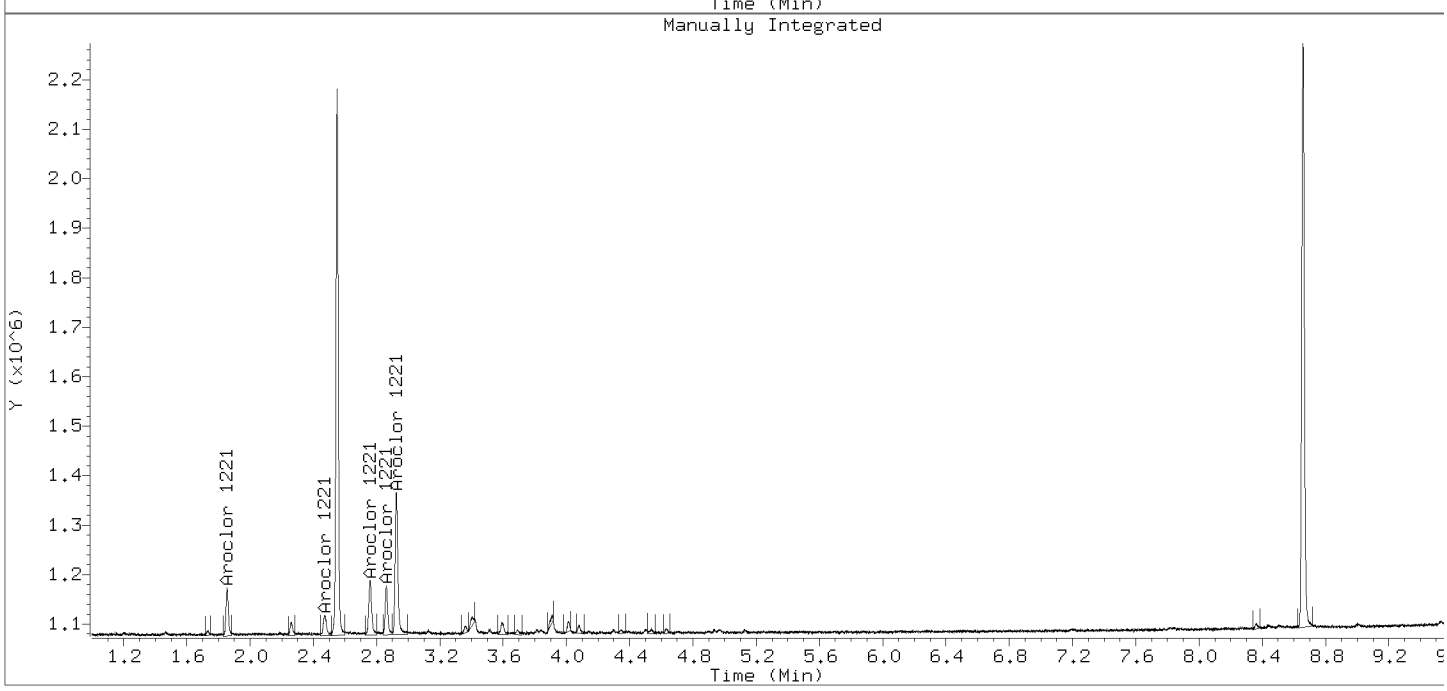
Column phase: ZB-1ms

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

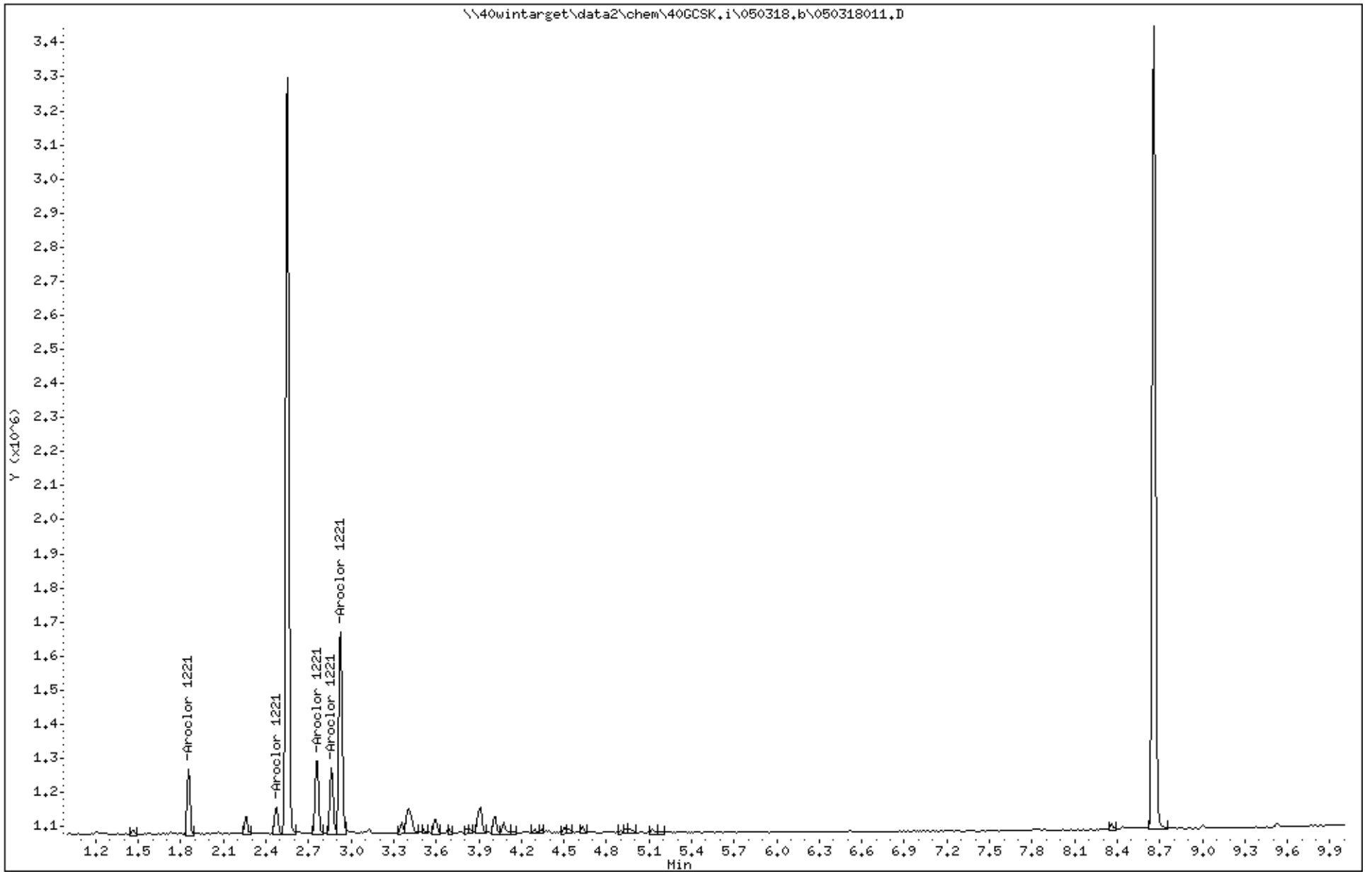
M - Compound response manually integrated.

Review Codes Legend

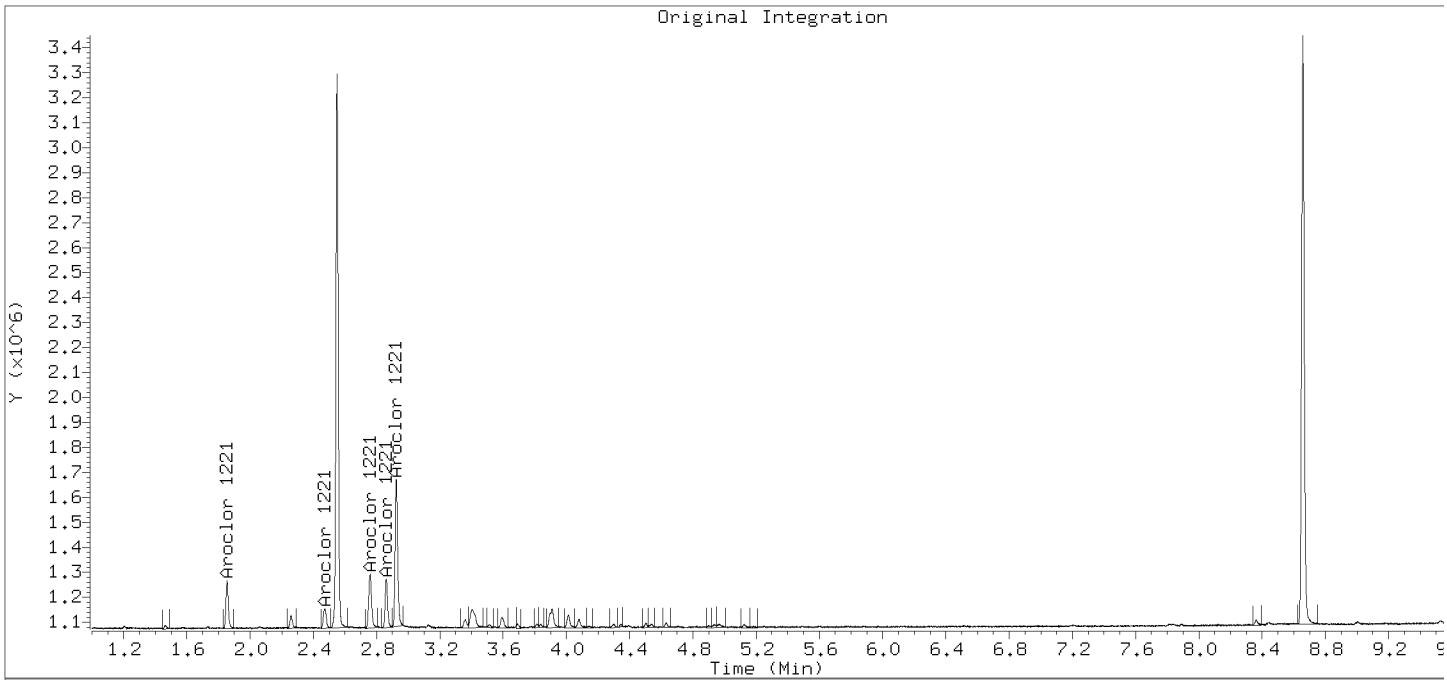
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

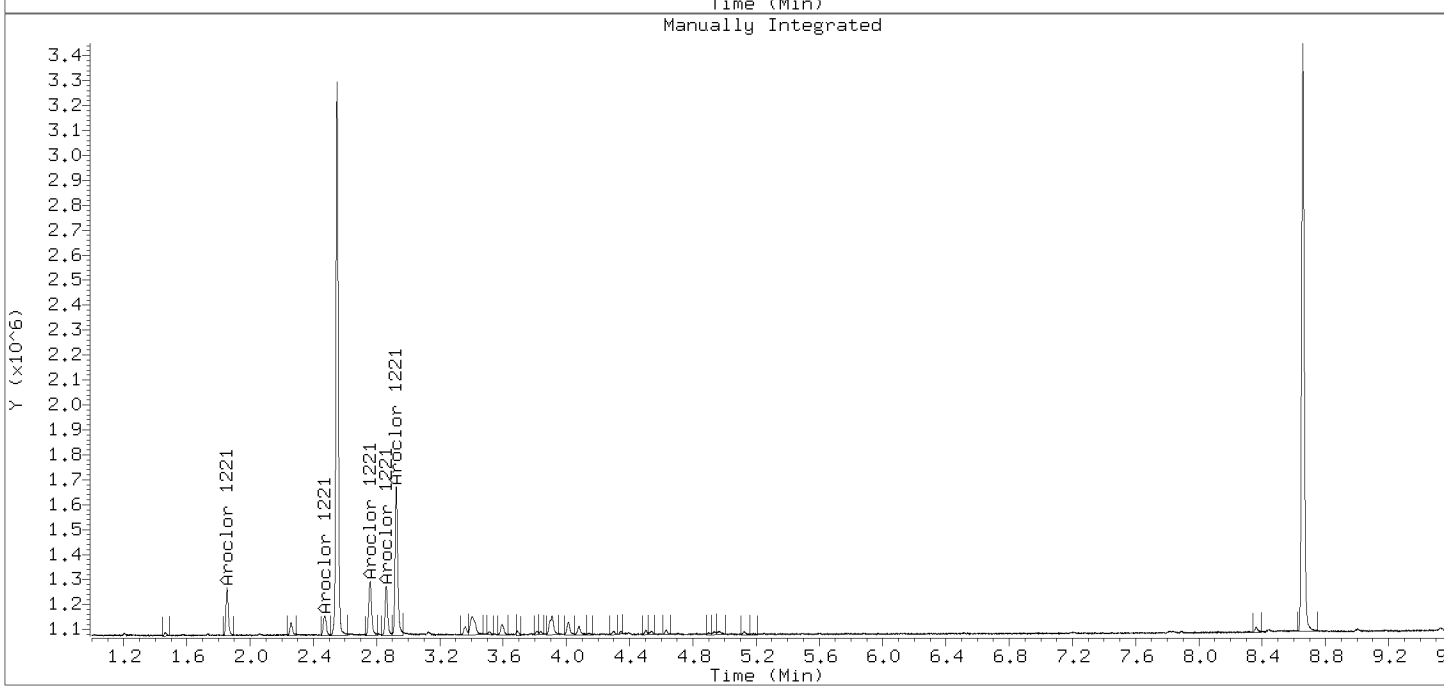
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Date : 03-MAY-2018 11:10
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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.

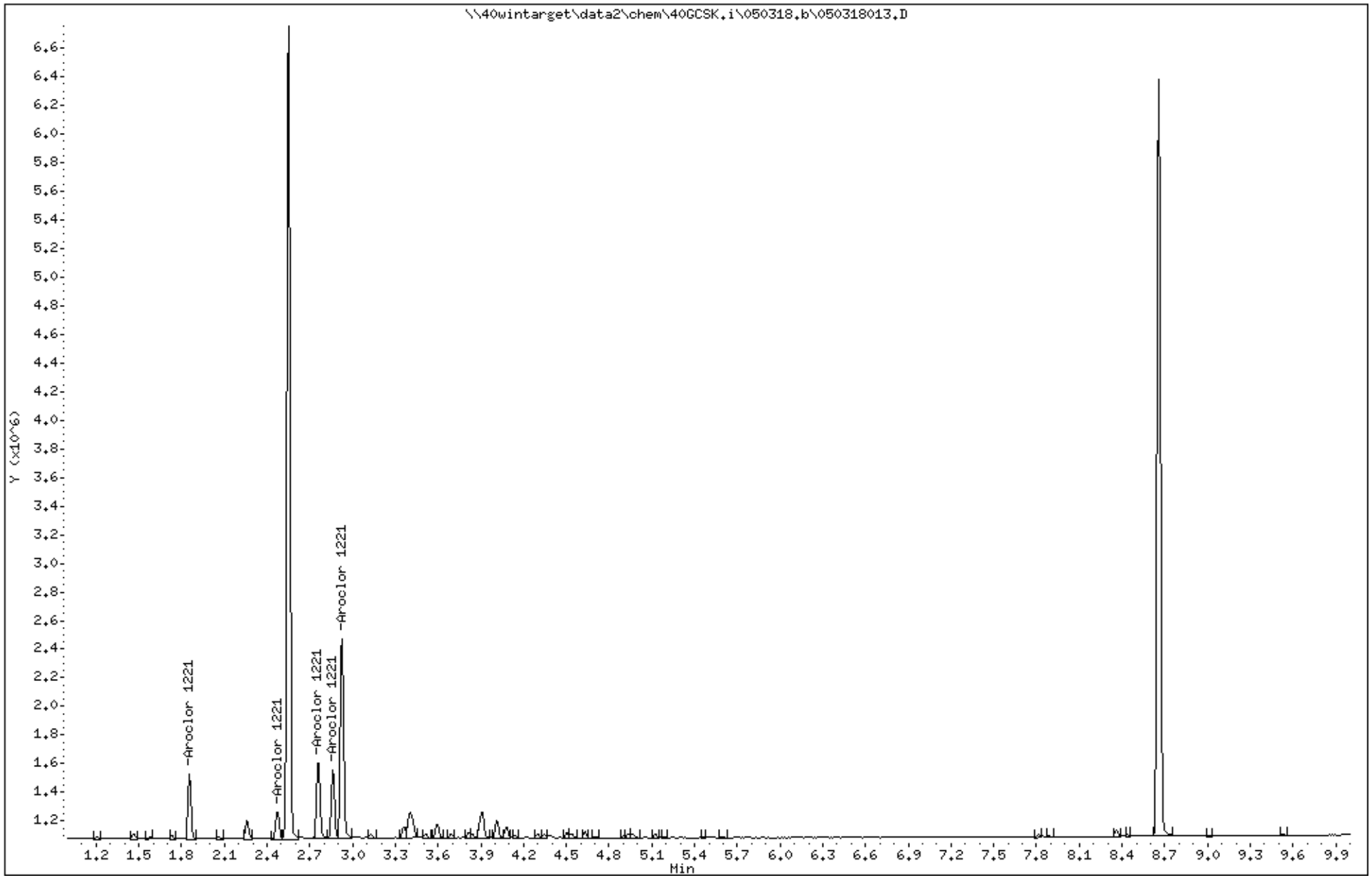
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Date : 03-MAY-2018 11:26
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSK.i

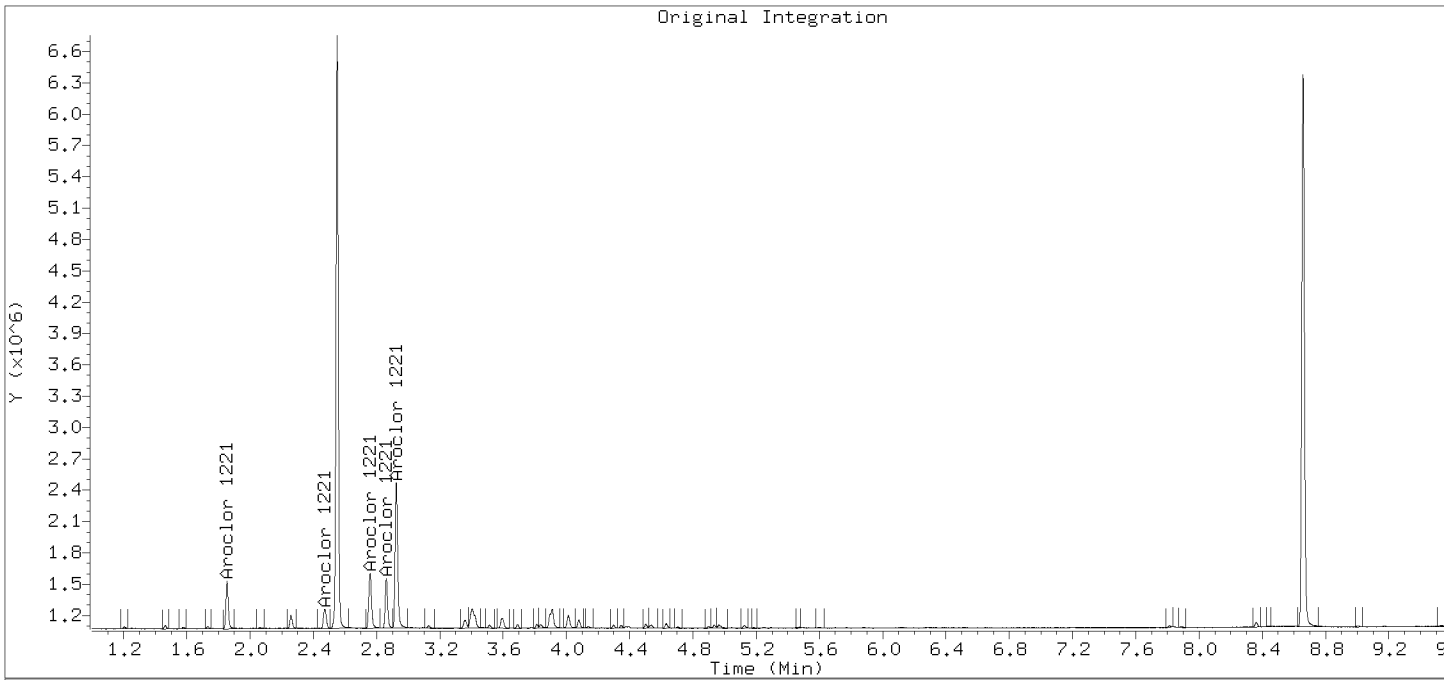
Operator: BLM

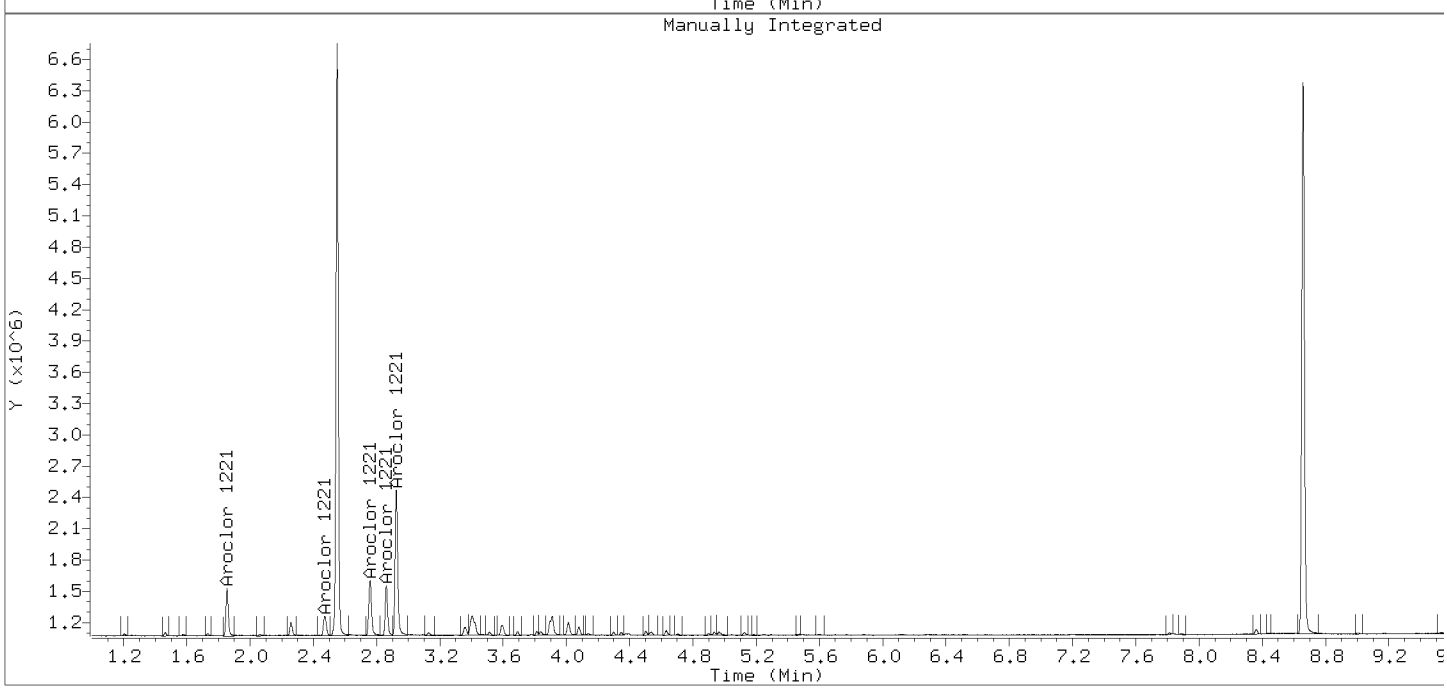
Column phase: ZB-1ms

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.

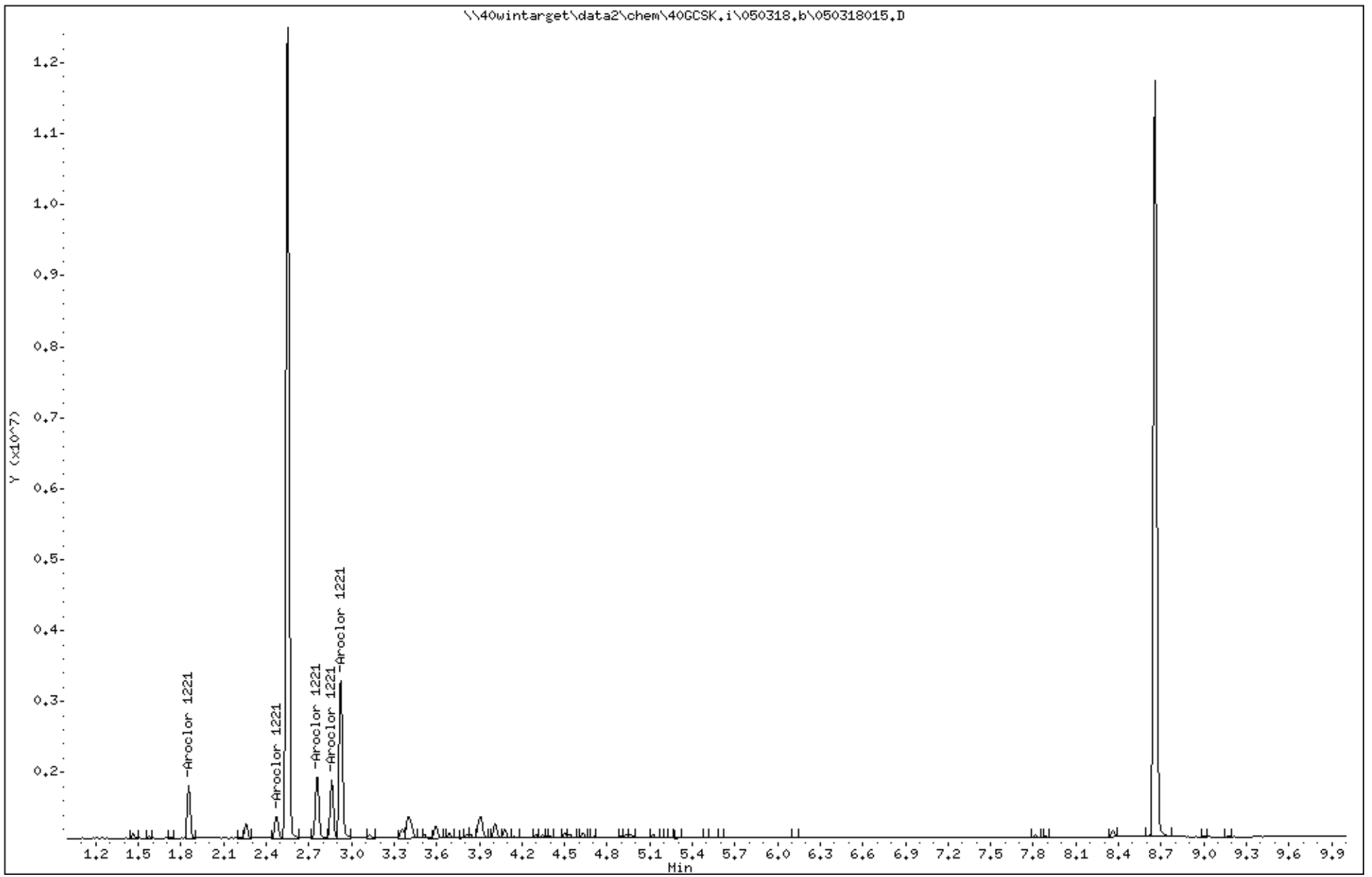
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Date : 03-MAY-2018 11:42
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

Instrument: 40GCSK.i

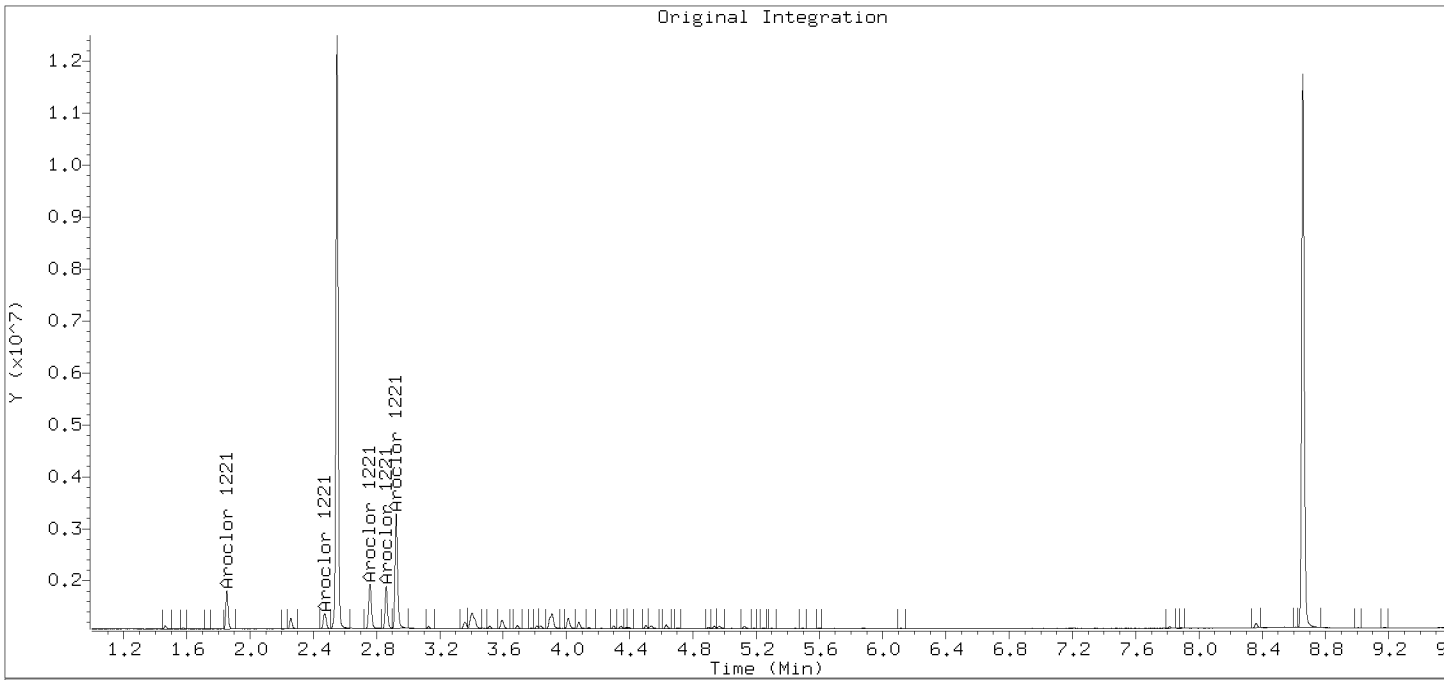
Operator: BLM

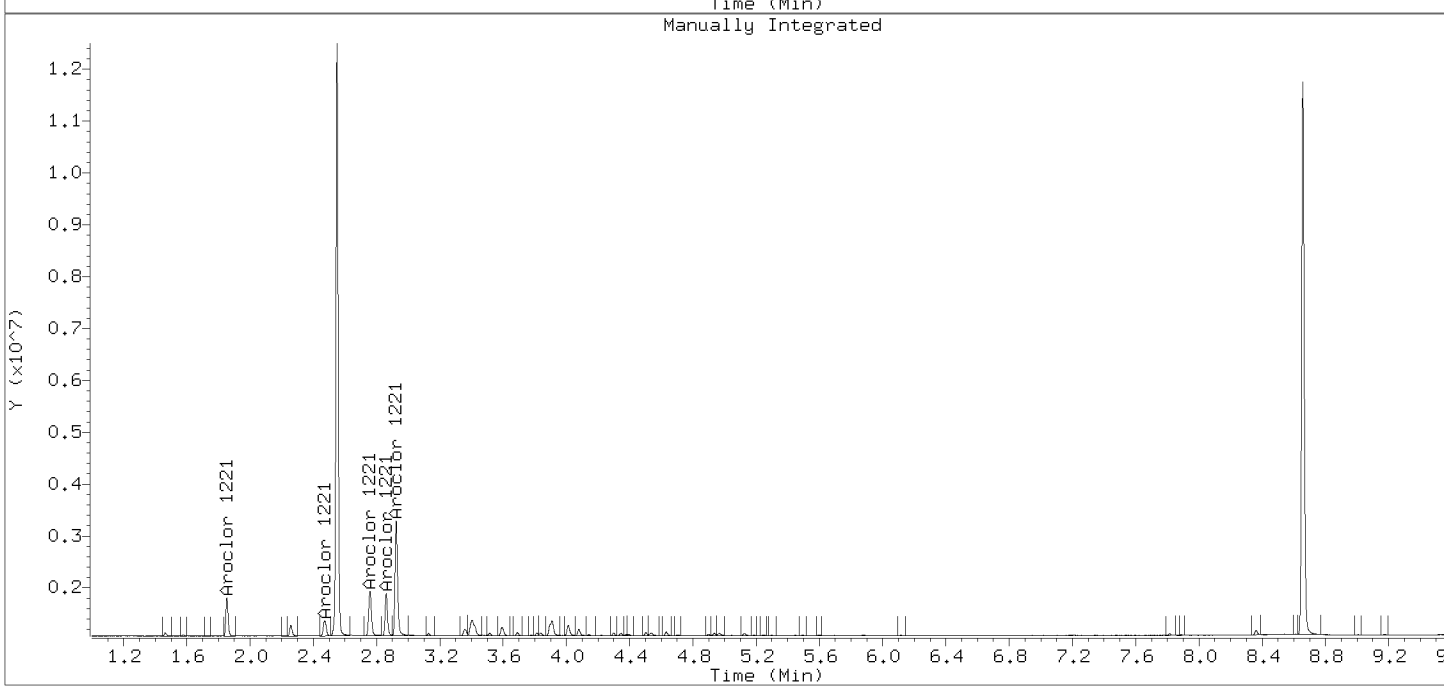
Column phase: ZB-1ms

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

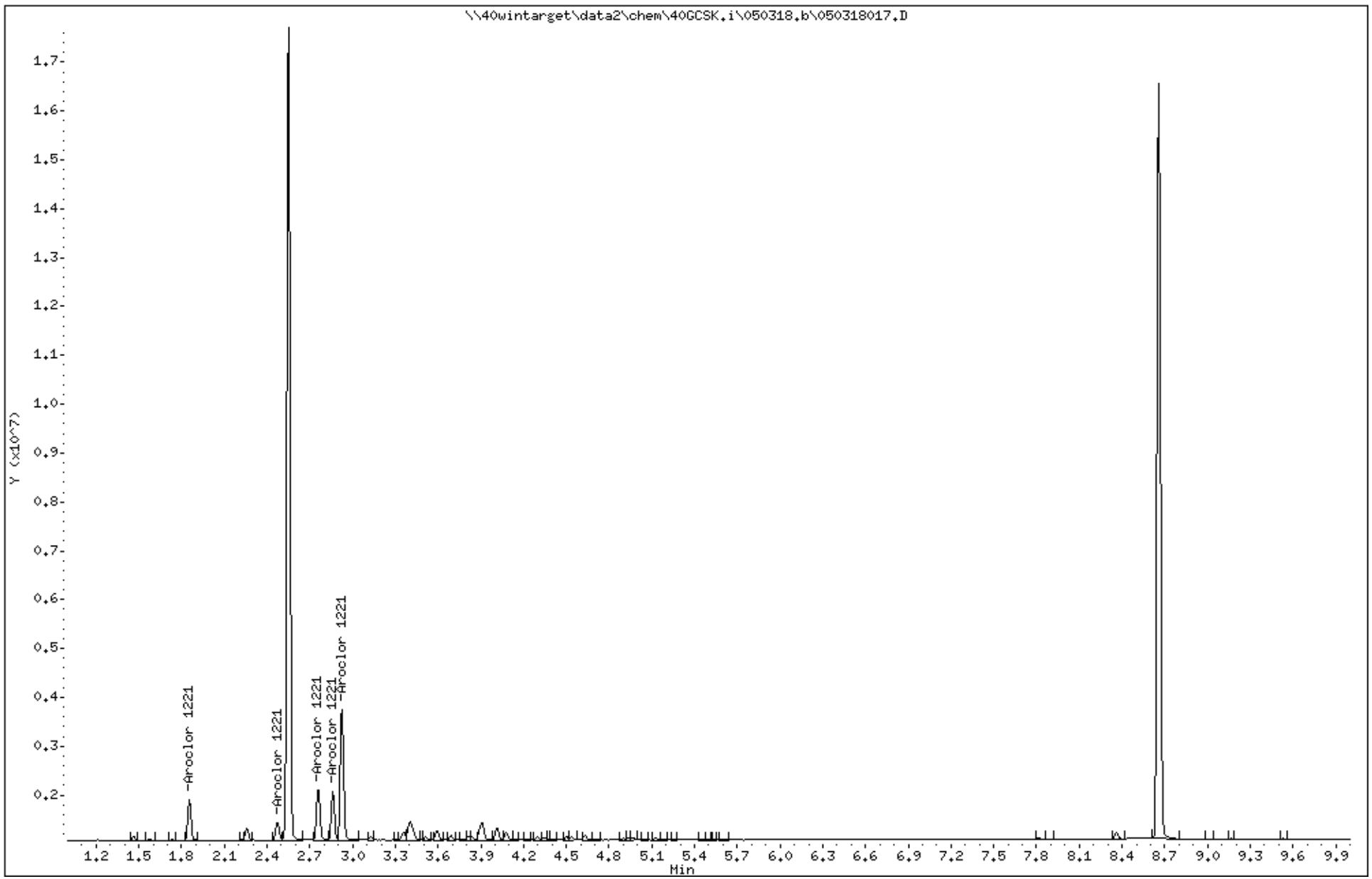
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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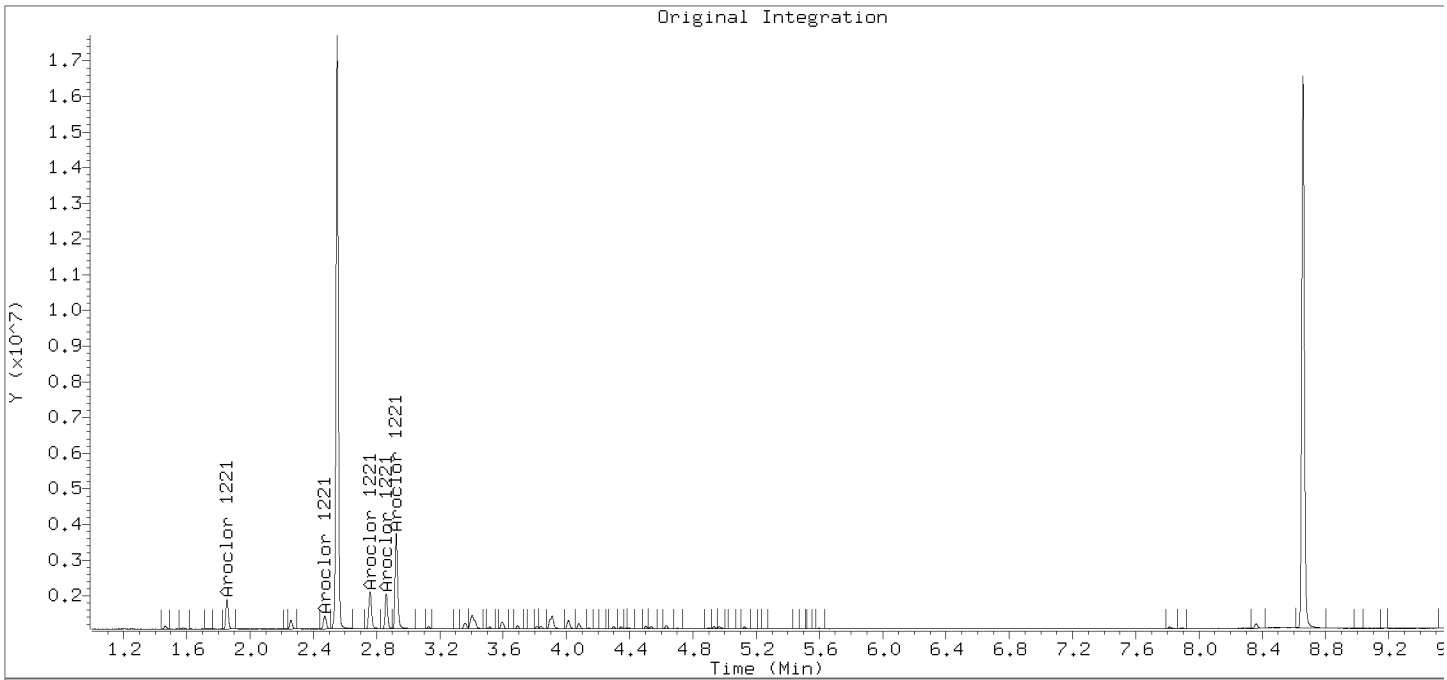
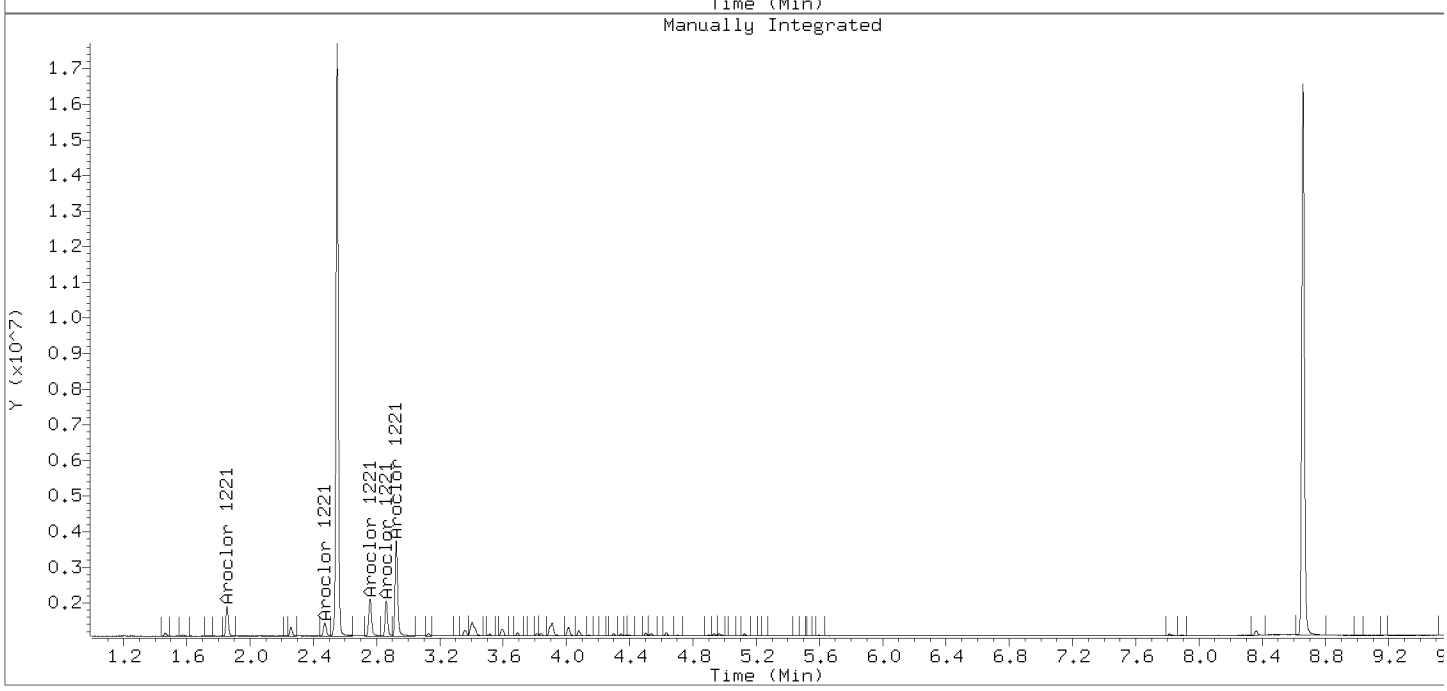
Injection Date: 03-MAY-2018 11:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL5F





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

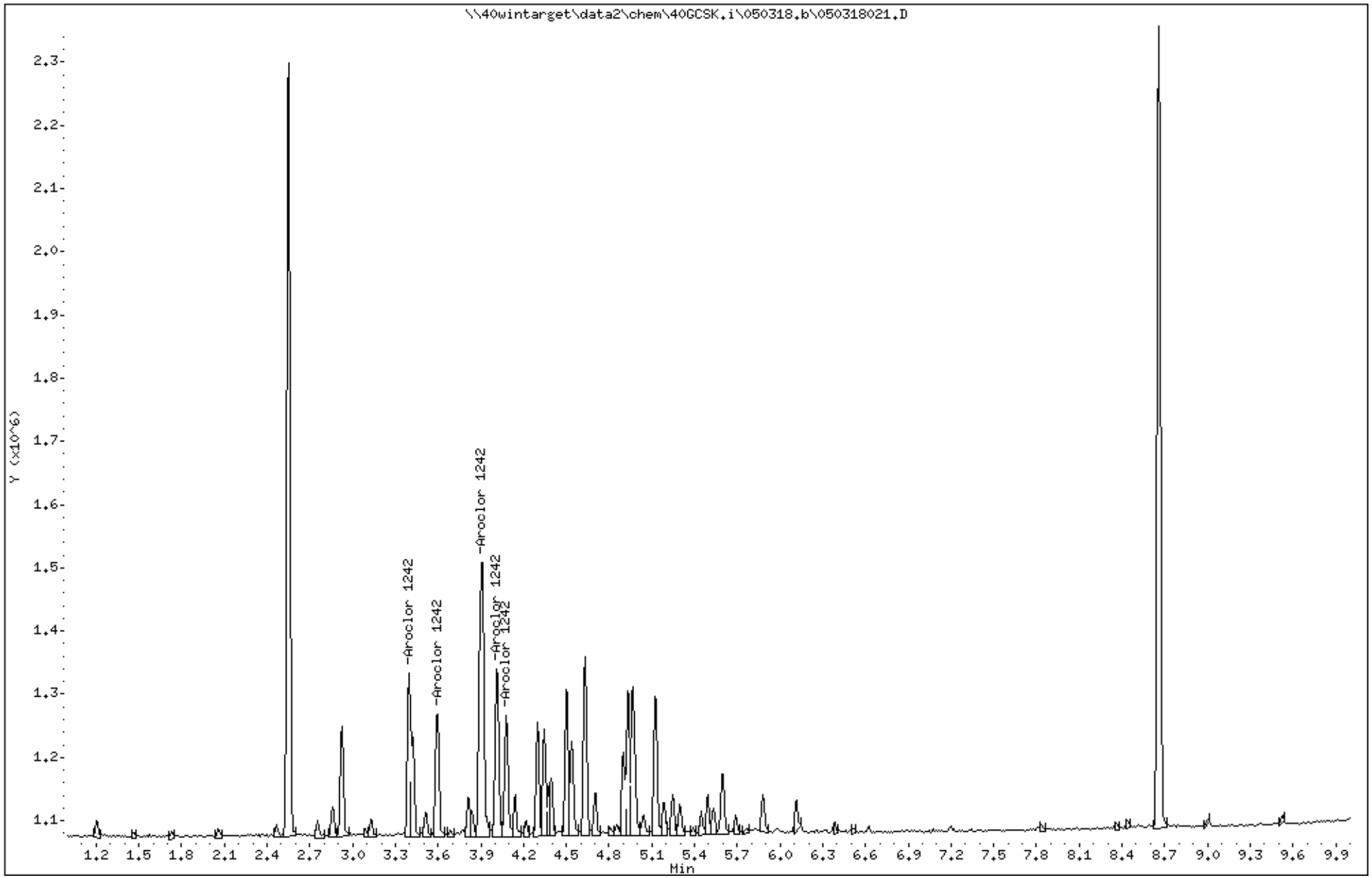
Instrument: 40GCSK.i

Sample Info: 1242-CAL1B, 188132:1

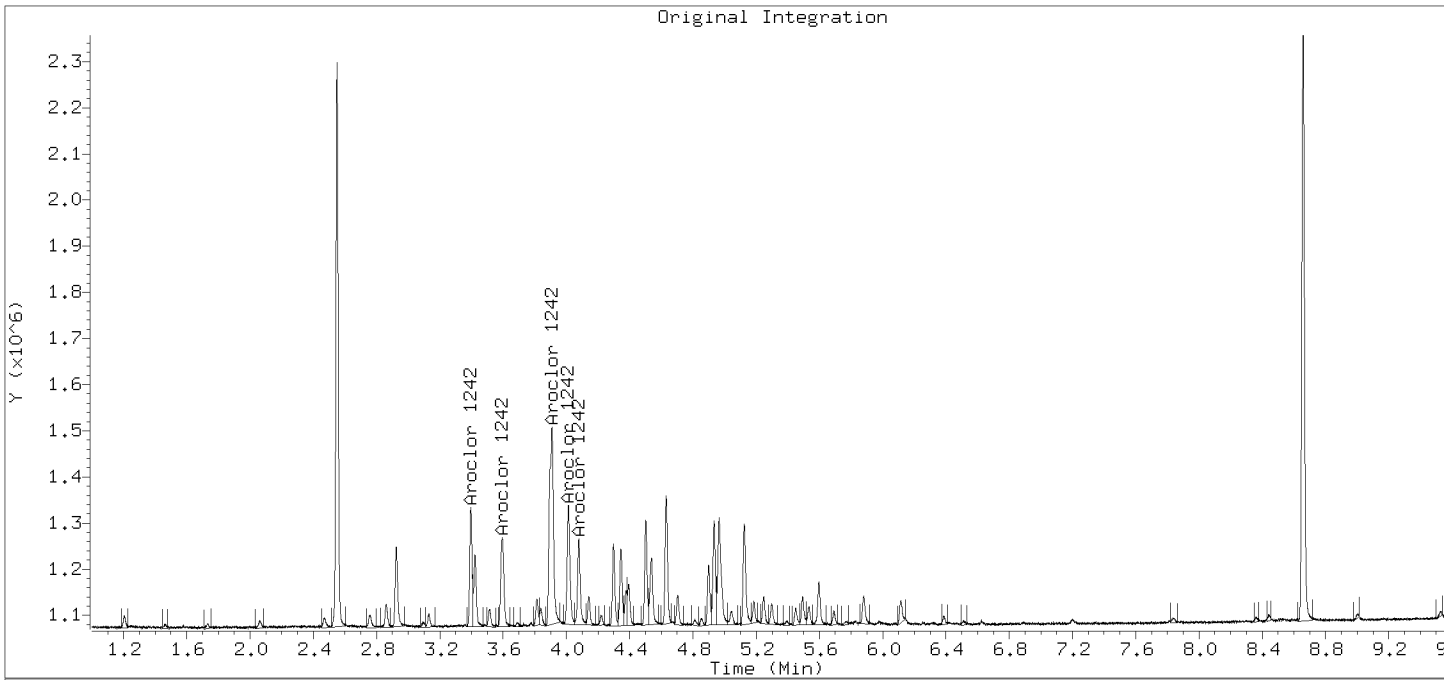
Operator: BLM

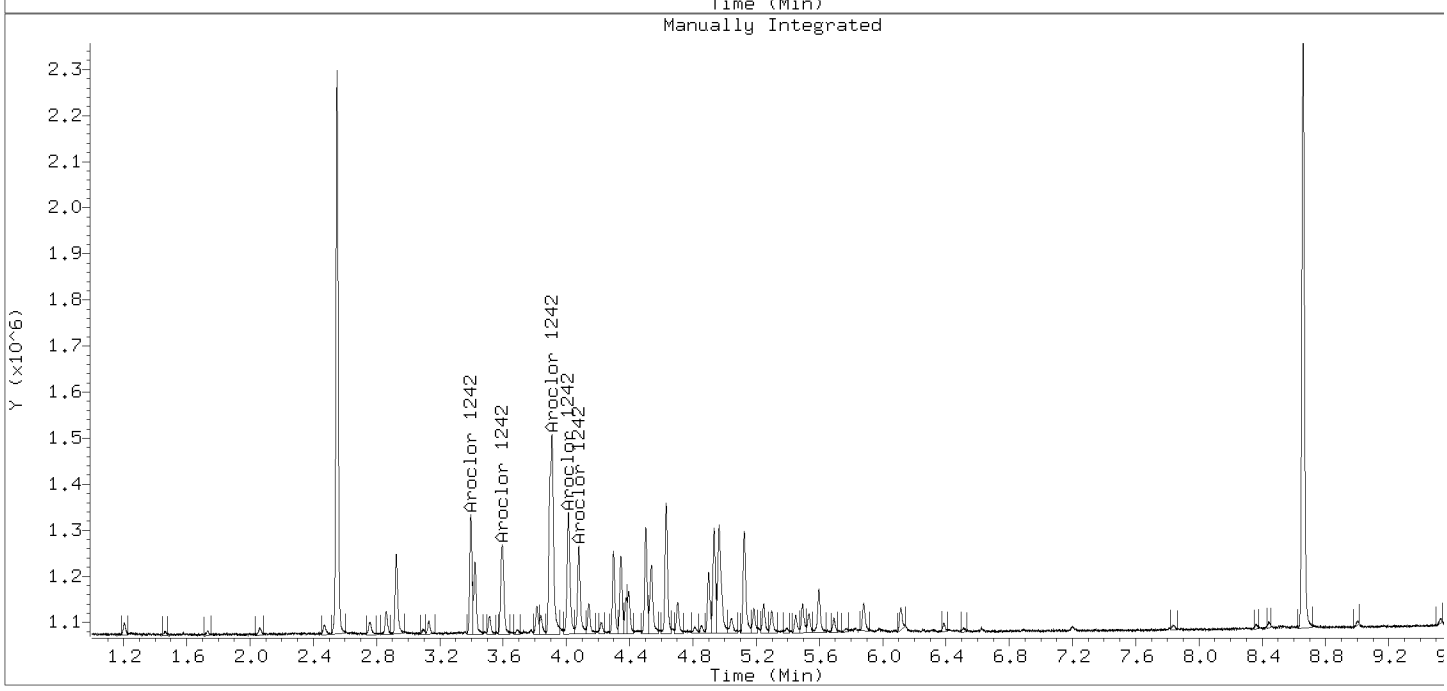
Column phase: ZB-1ms

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

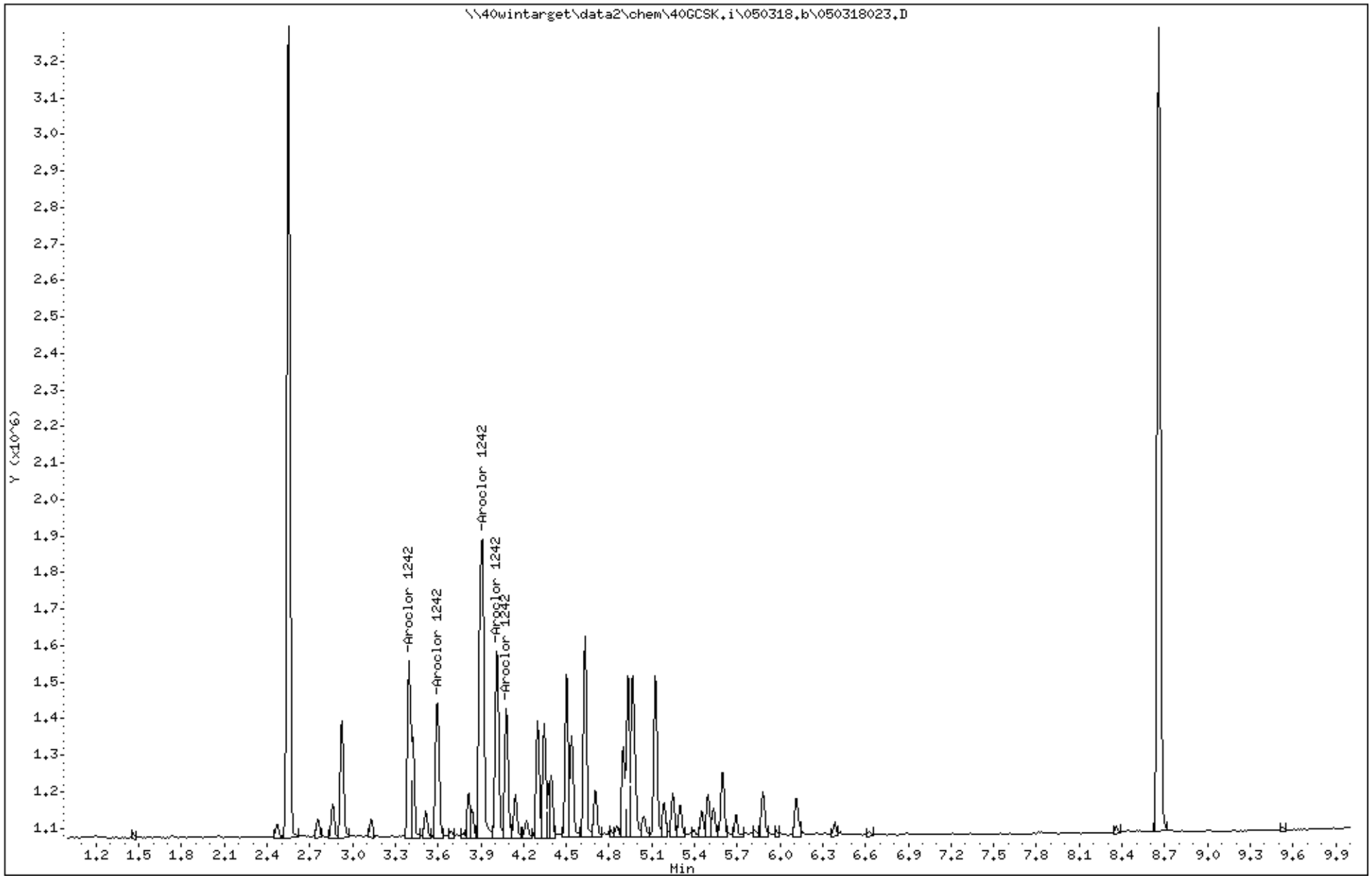
M - Compound response manually integrated.

Review Codes Legend

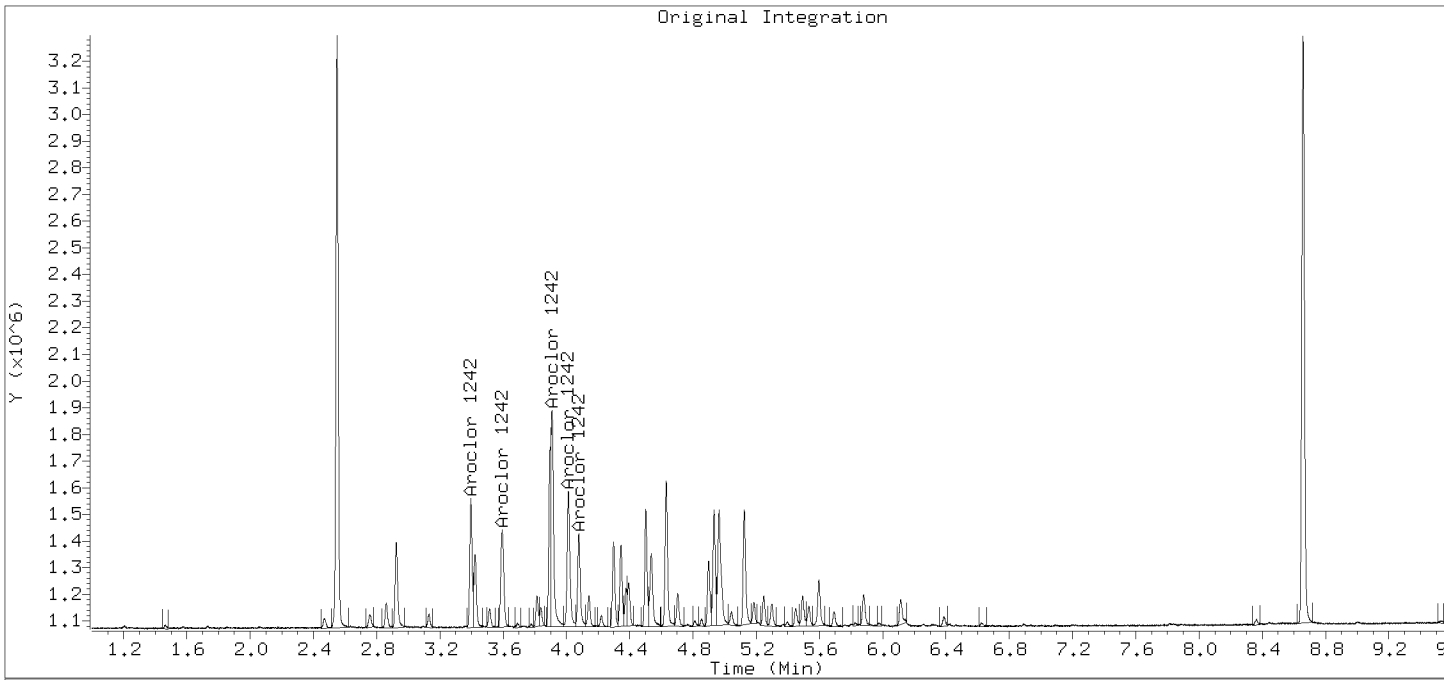
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

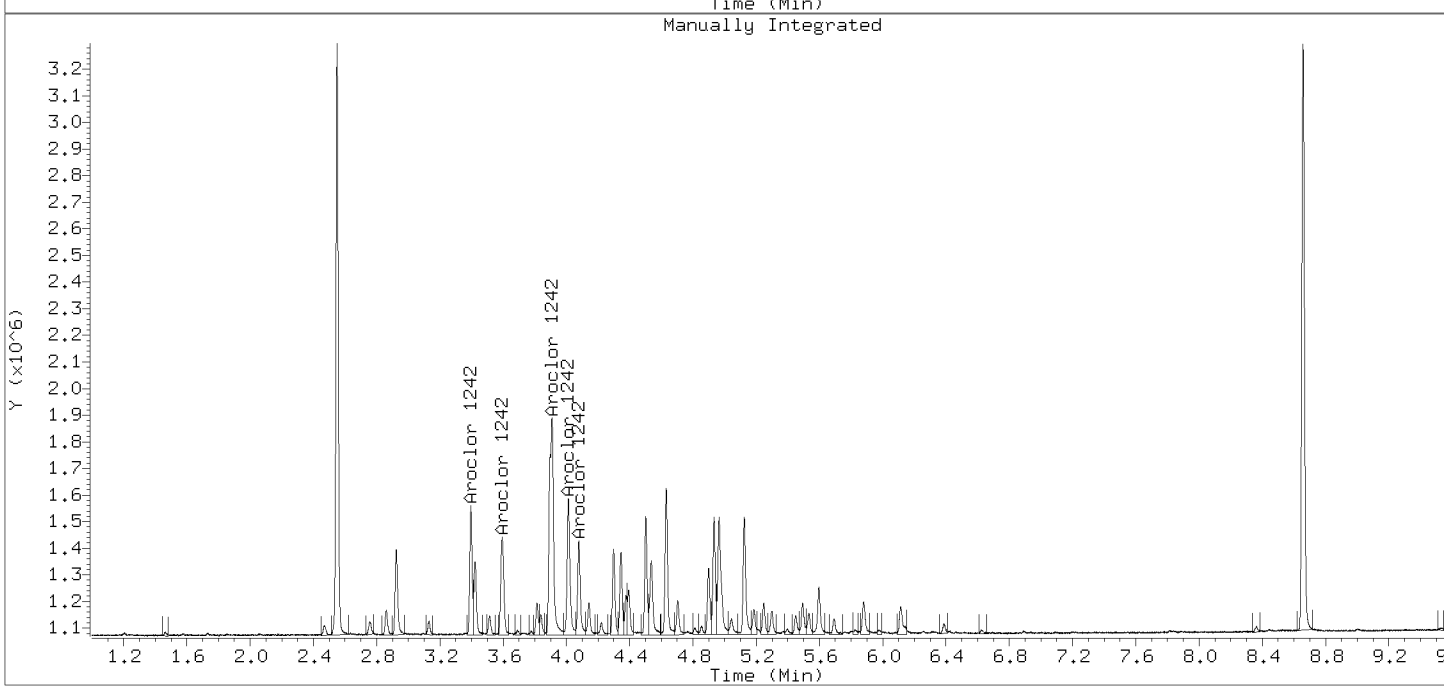
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D
Date : 03-MAY-2018 12:47
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

Instrument: 40GCSK.i
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.

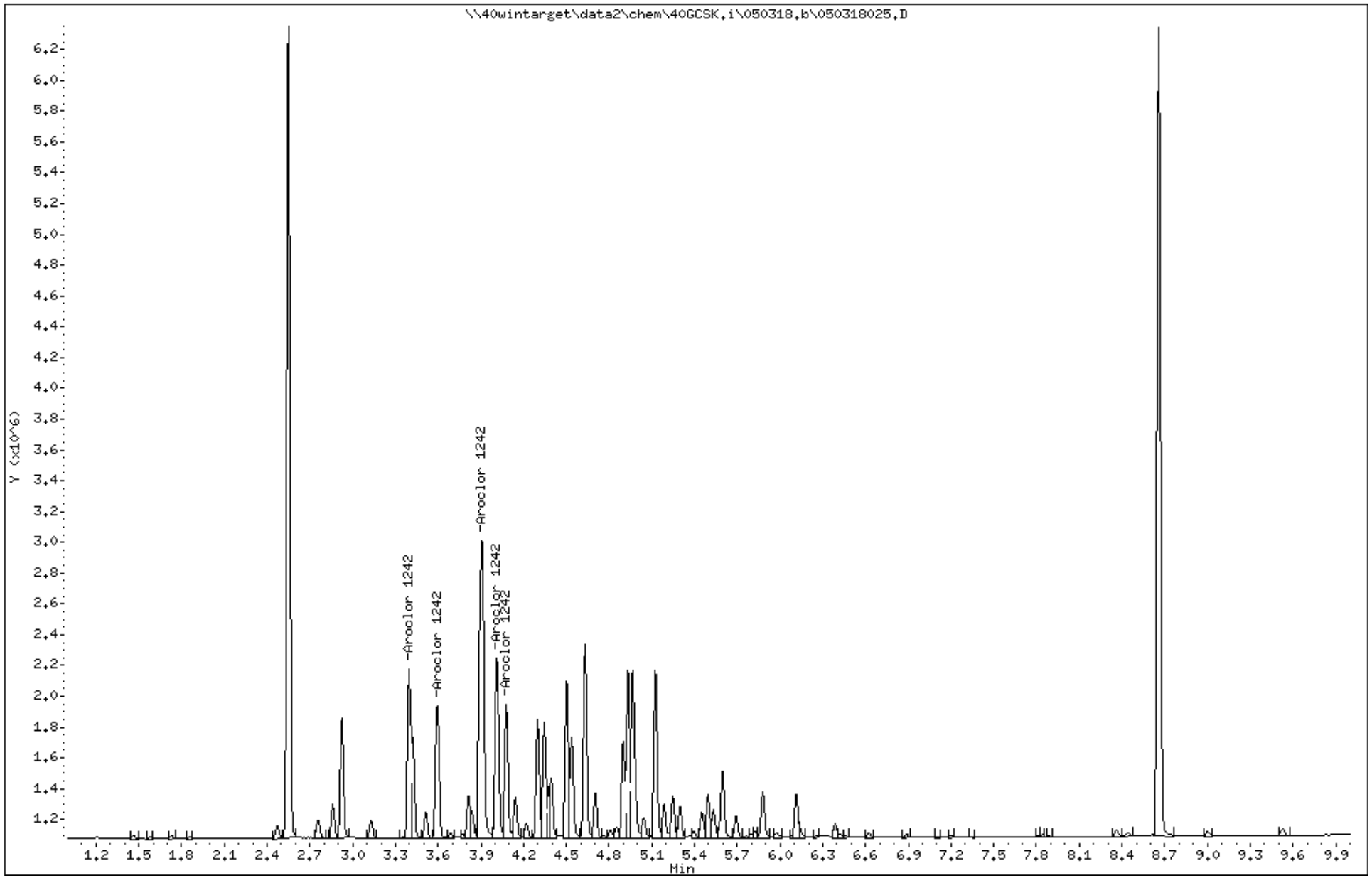
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Date : 03-MAY-2018 13:03
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

Instrument: 40GCSK.i

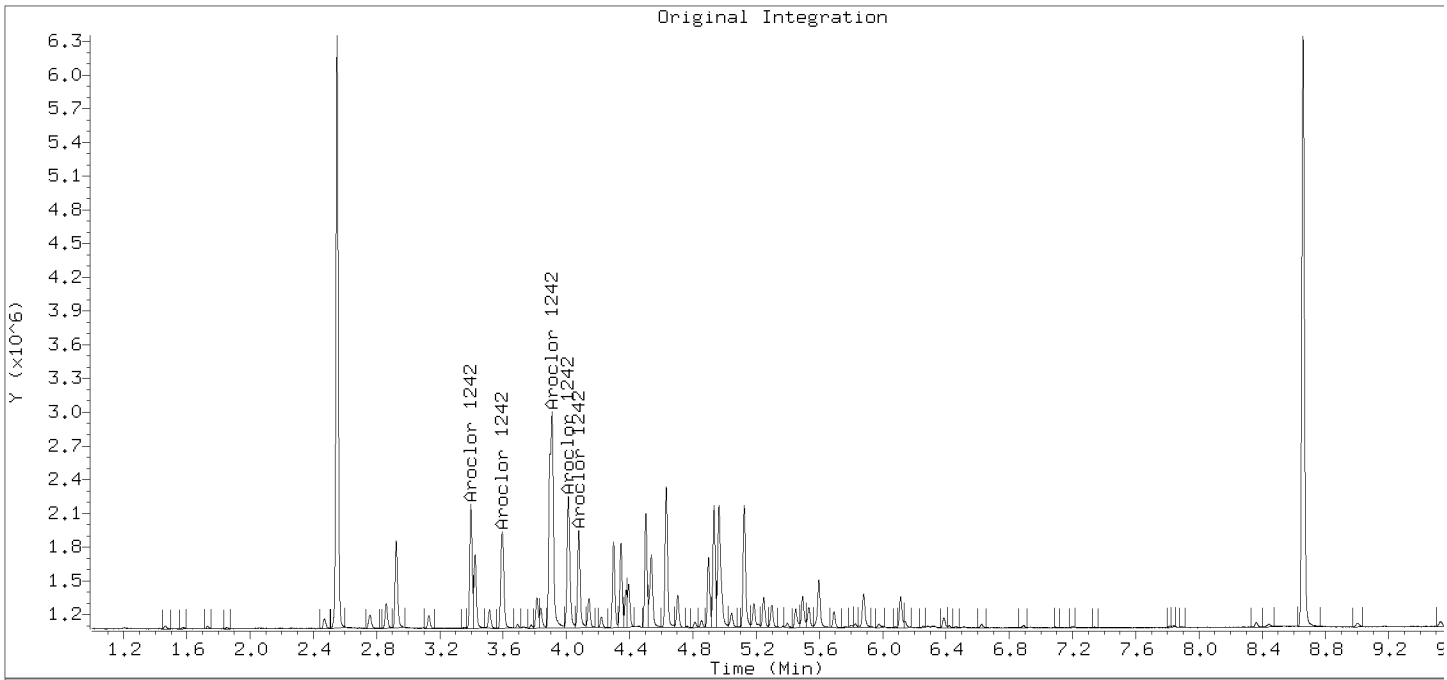
Operator: BLM

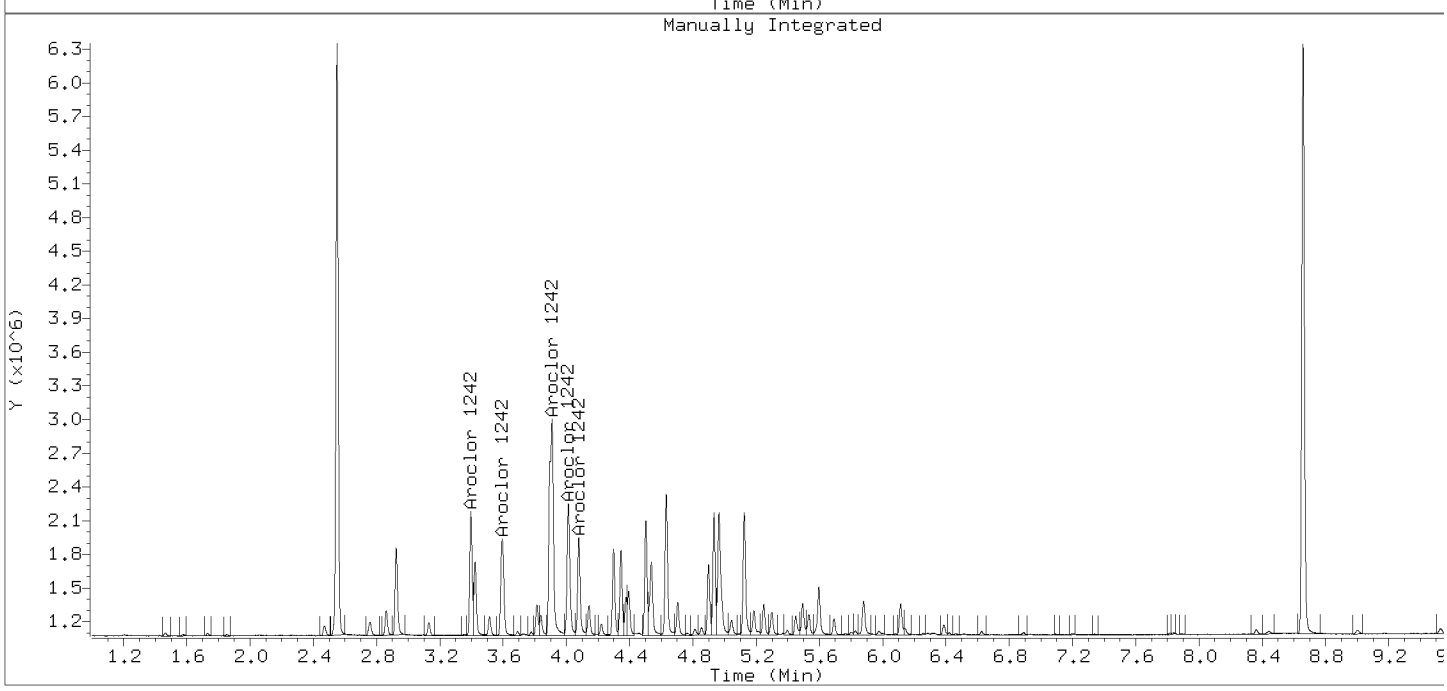
Column phase: ZB-1ms

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

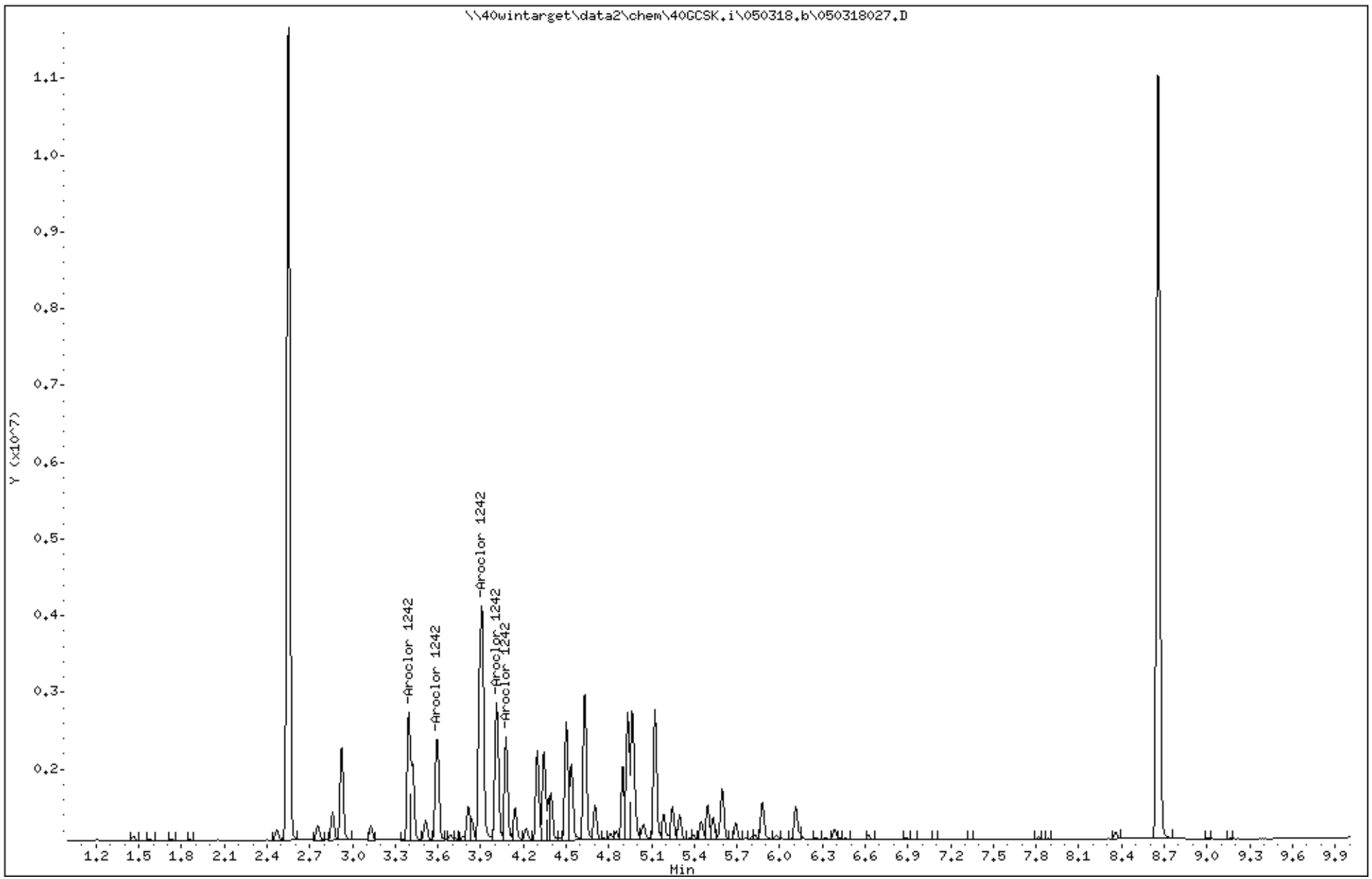
Instrument: 40GCSK.i

Sample Info: 1242-CAL4B, 185545:1

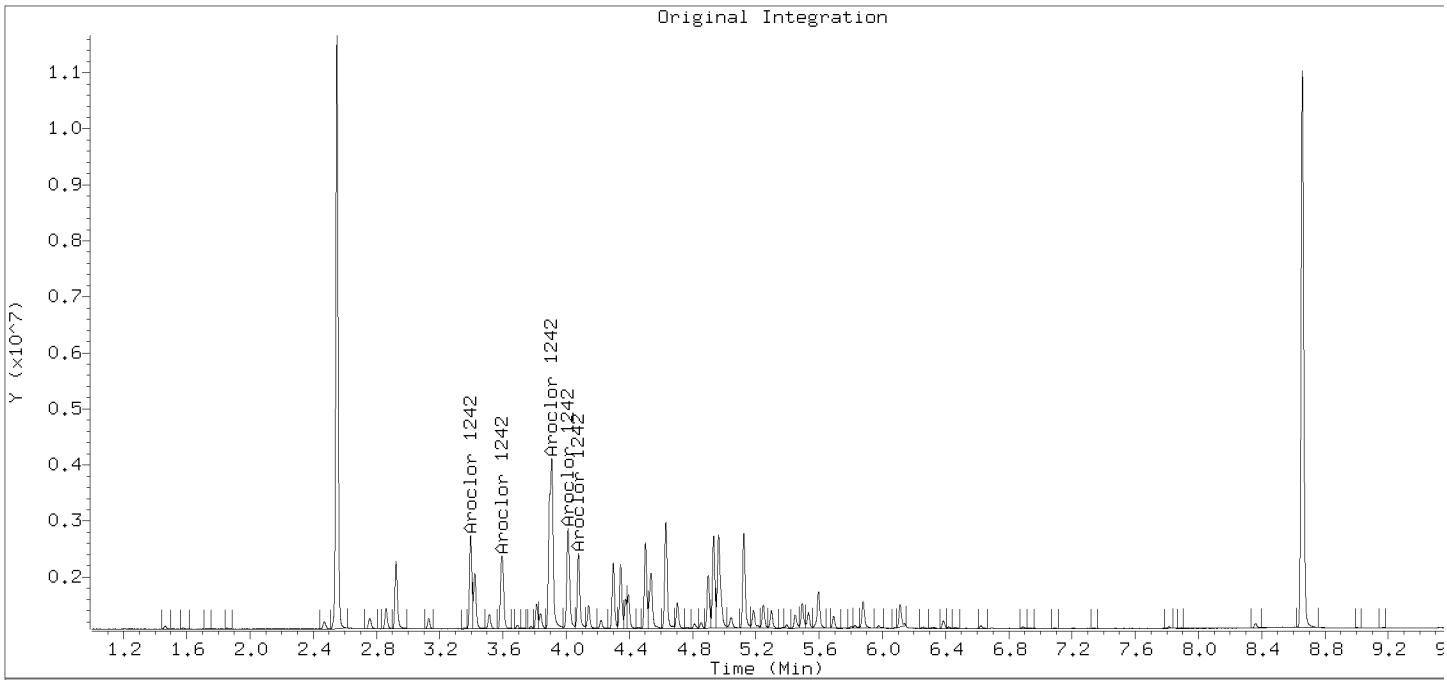
Operator: BLM

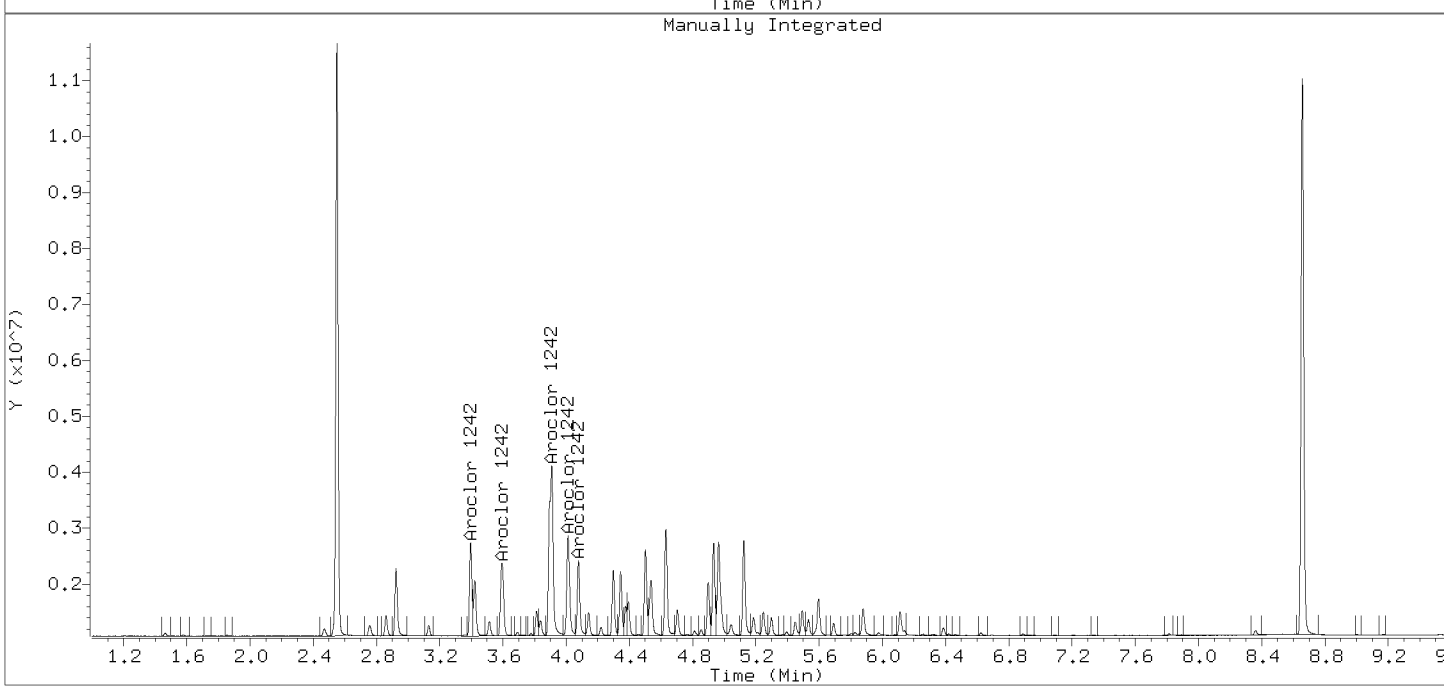
Column phase: ZB-1ms

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

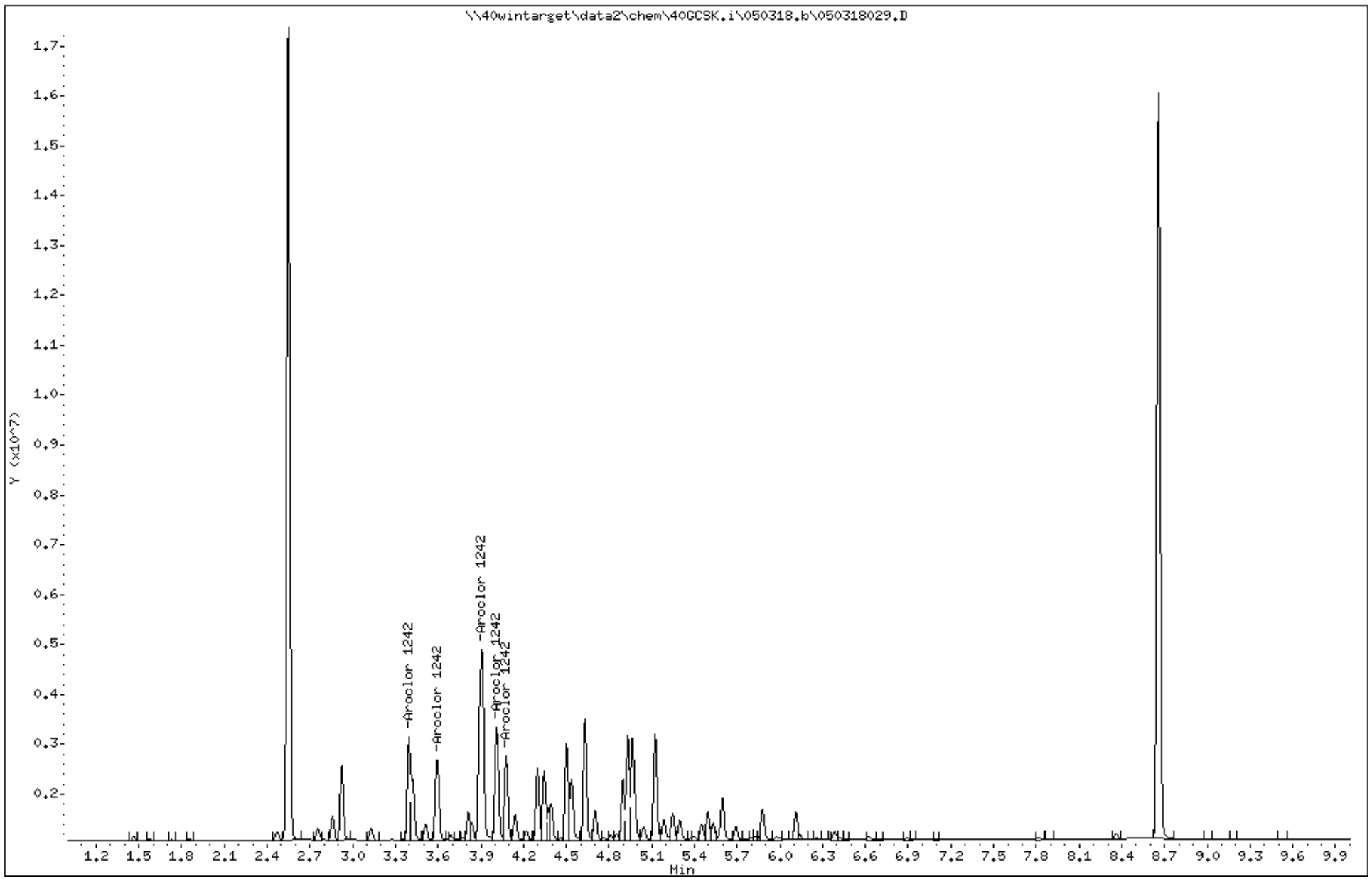
Instrument: 40GCSK.i

Sample Info: 1242-CAL5B, 185546:1

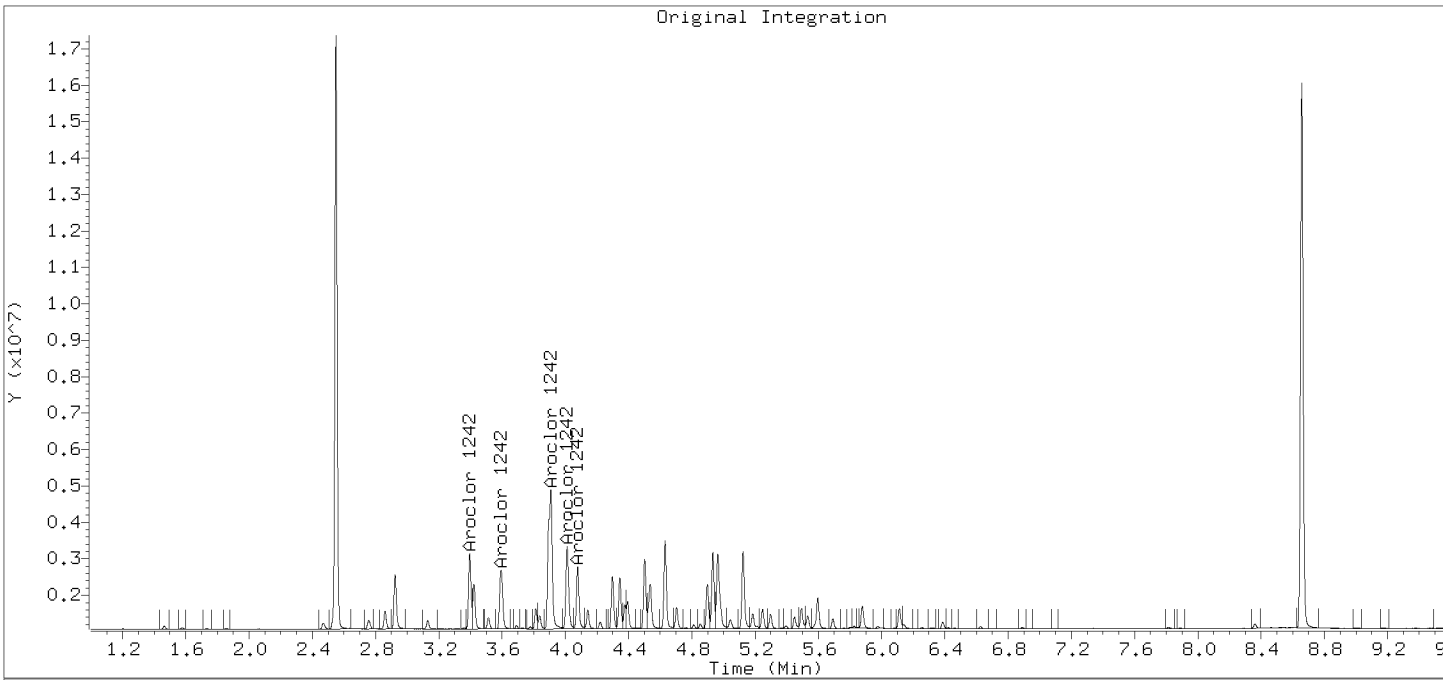
Operator: BLM

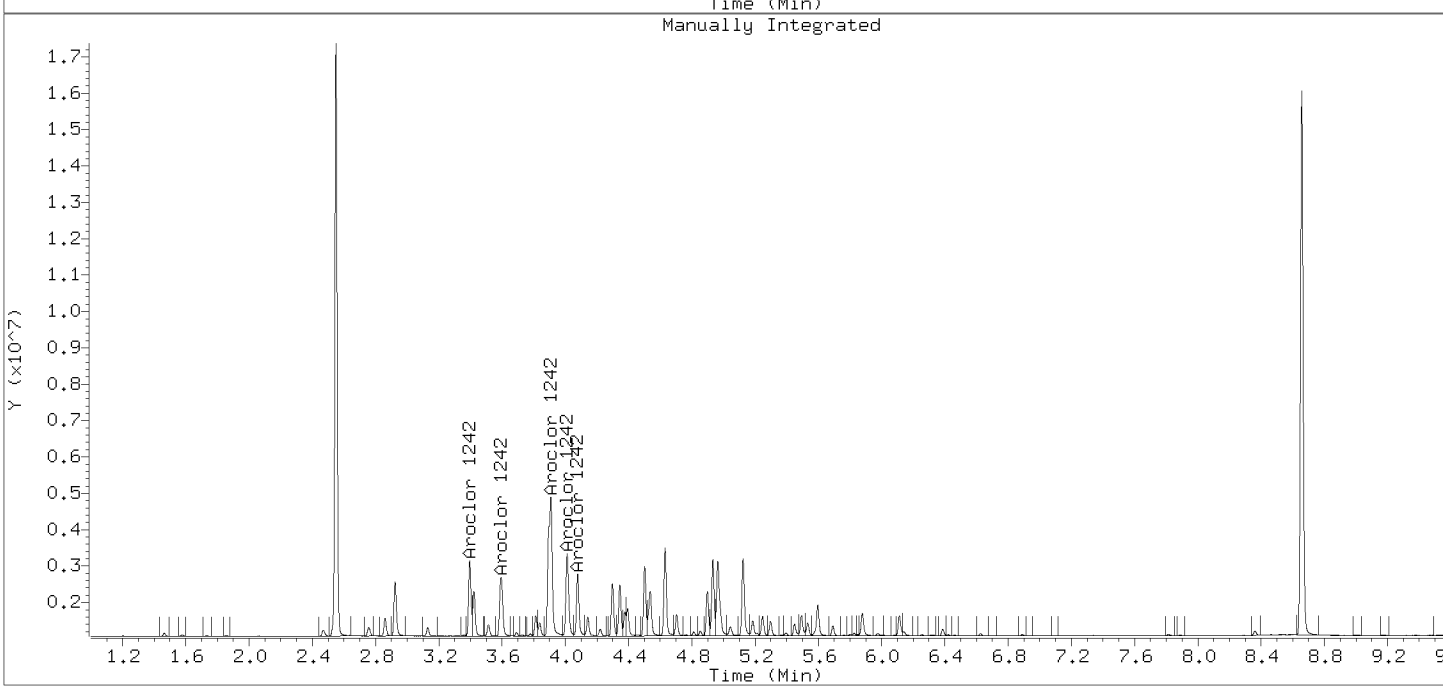
Column phase: ZB-1ms

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.

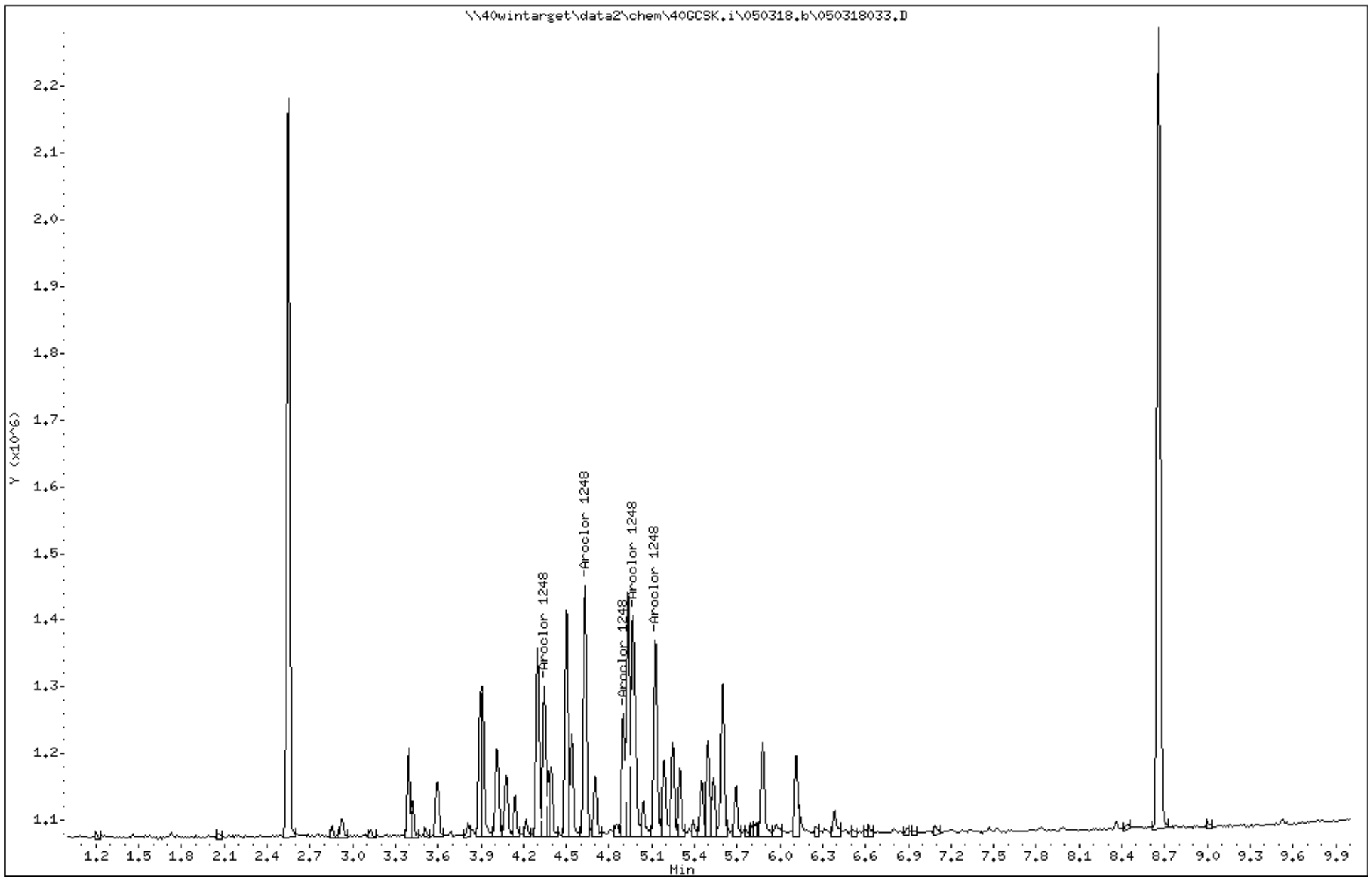
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D
Date : 03-MAY-2018 14:07
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSK.i

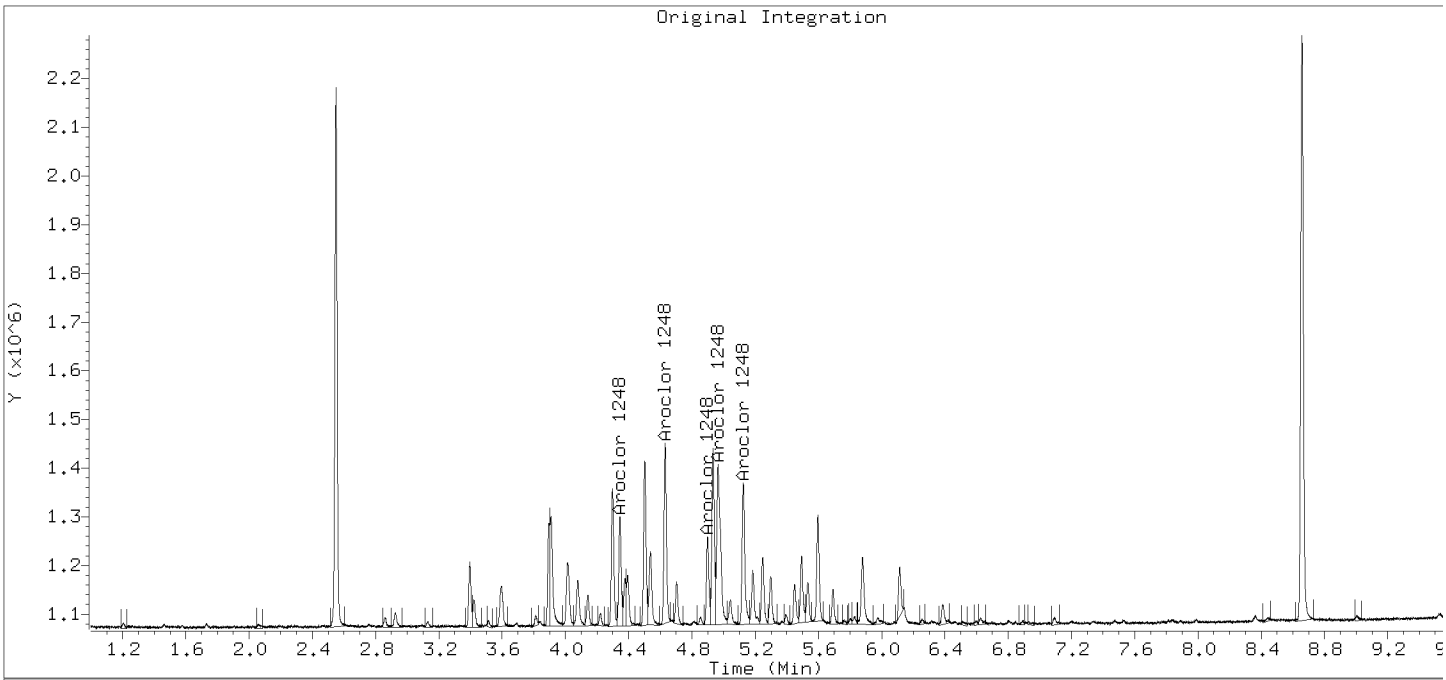
Operator: BLM

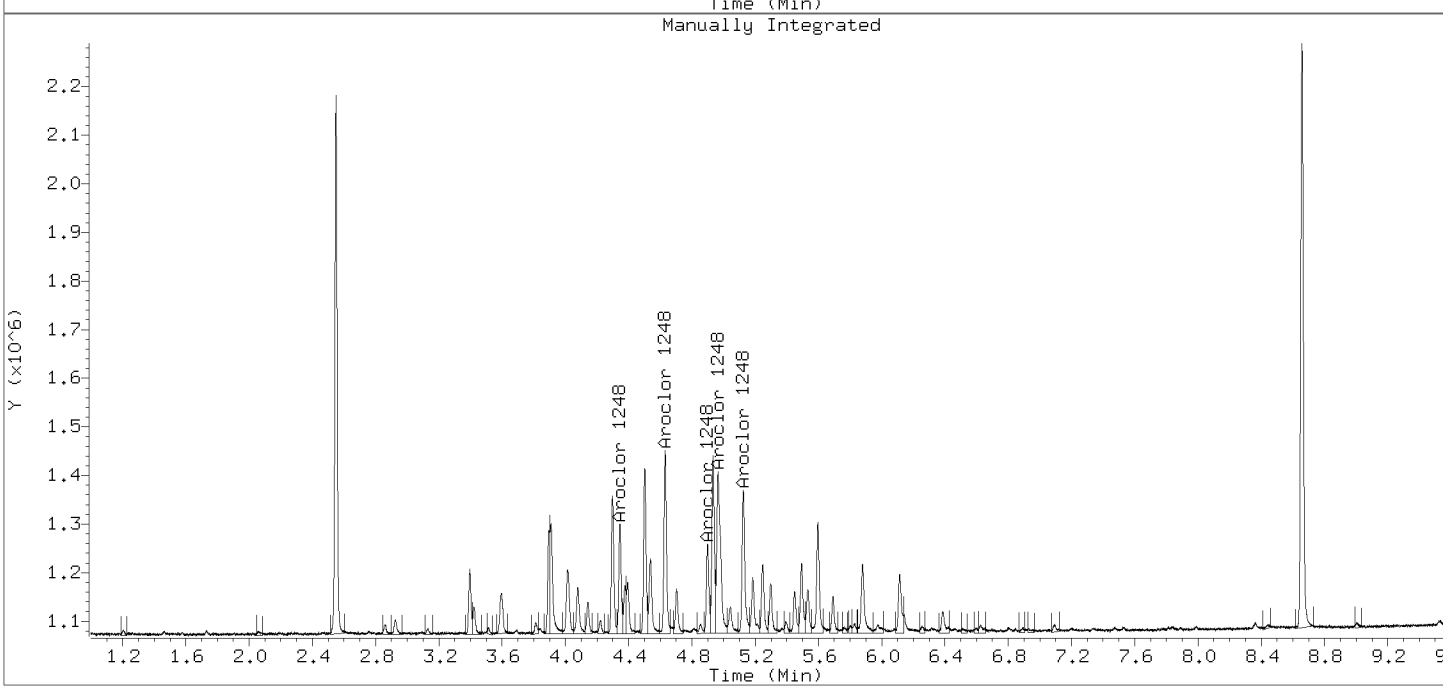
Column phase: ZB-1ms

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.

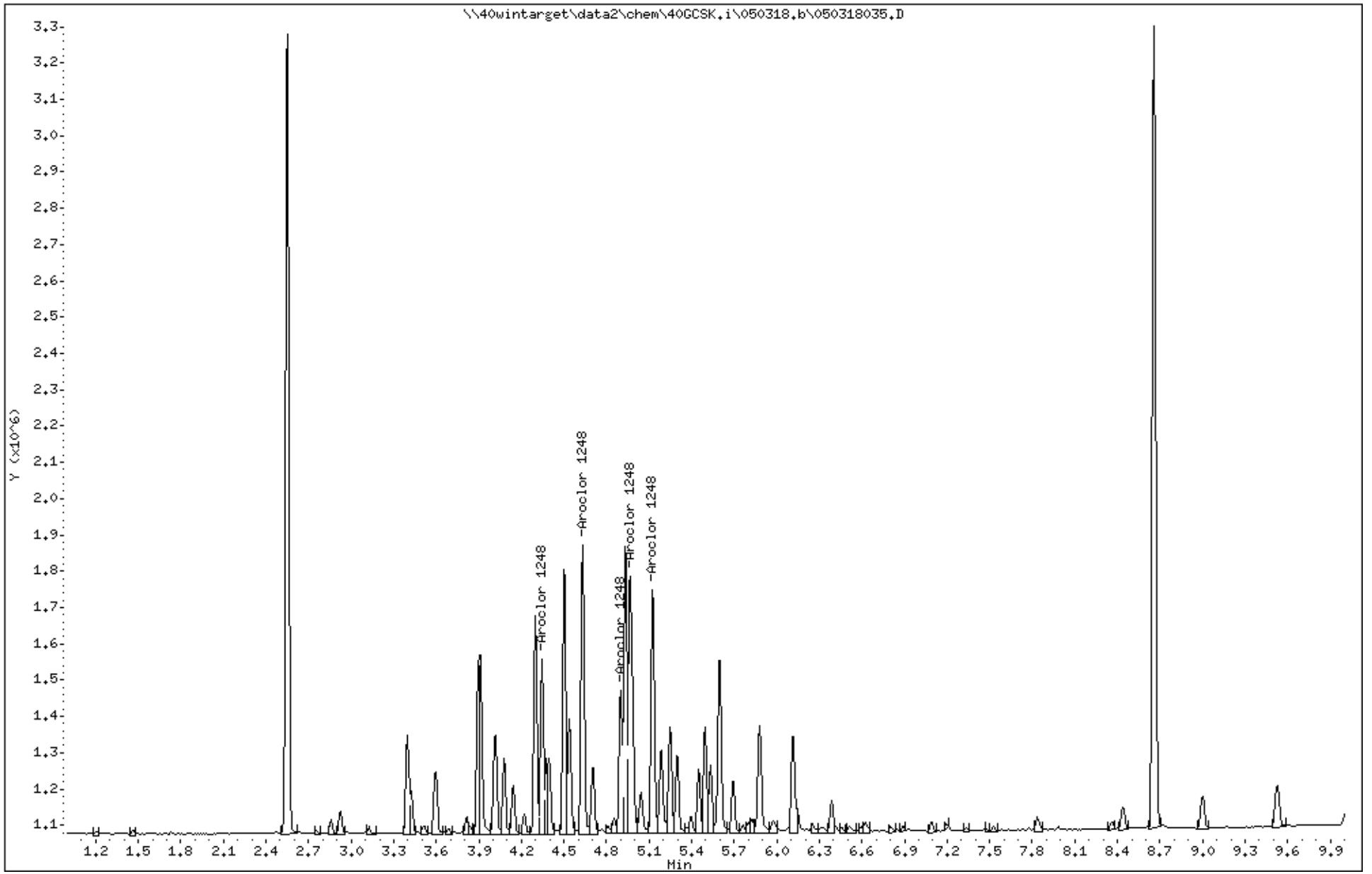
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Date : 03-MAY-2018 14:23
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

Instrument: 40GCSK.i

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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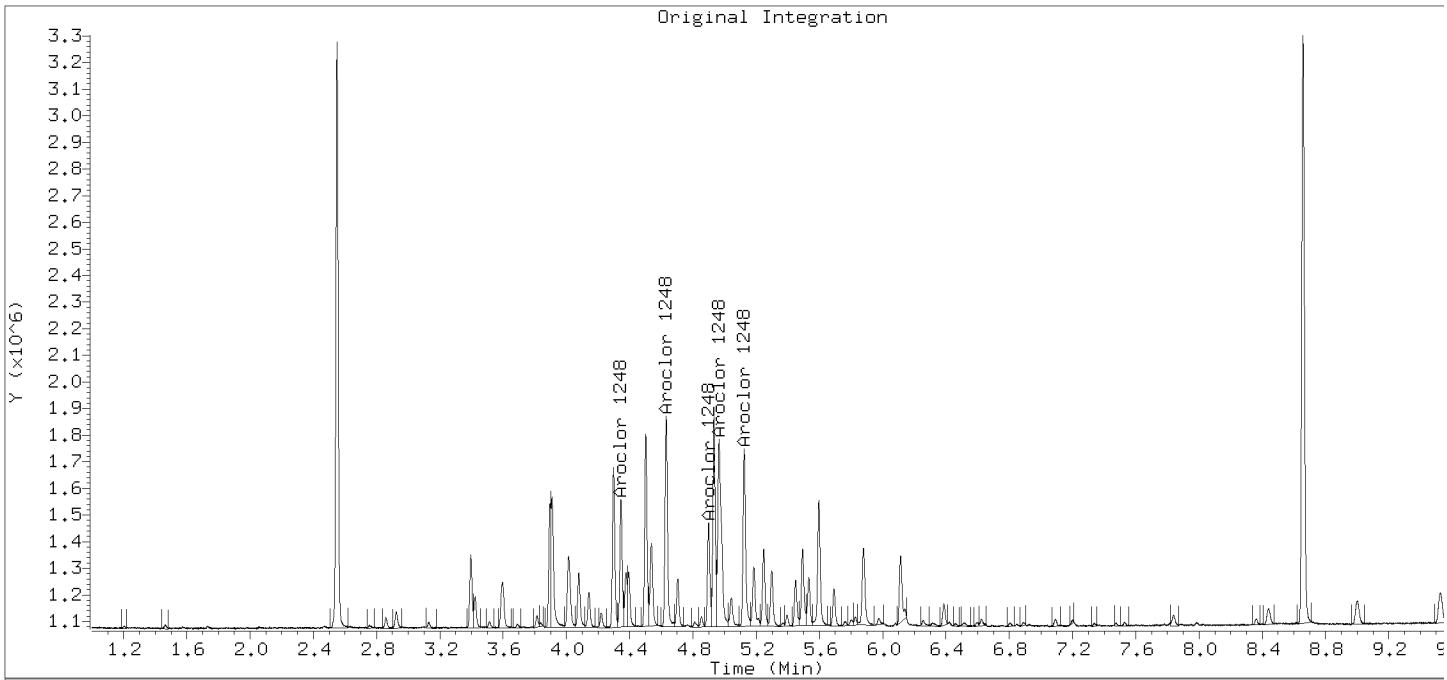
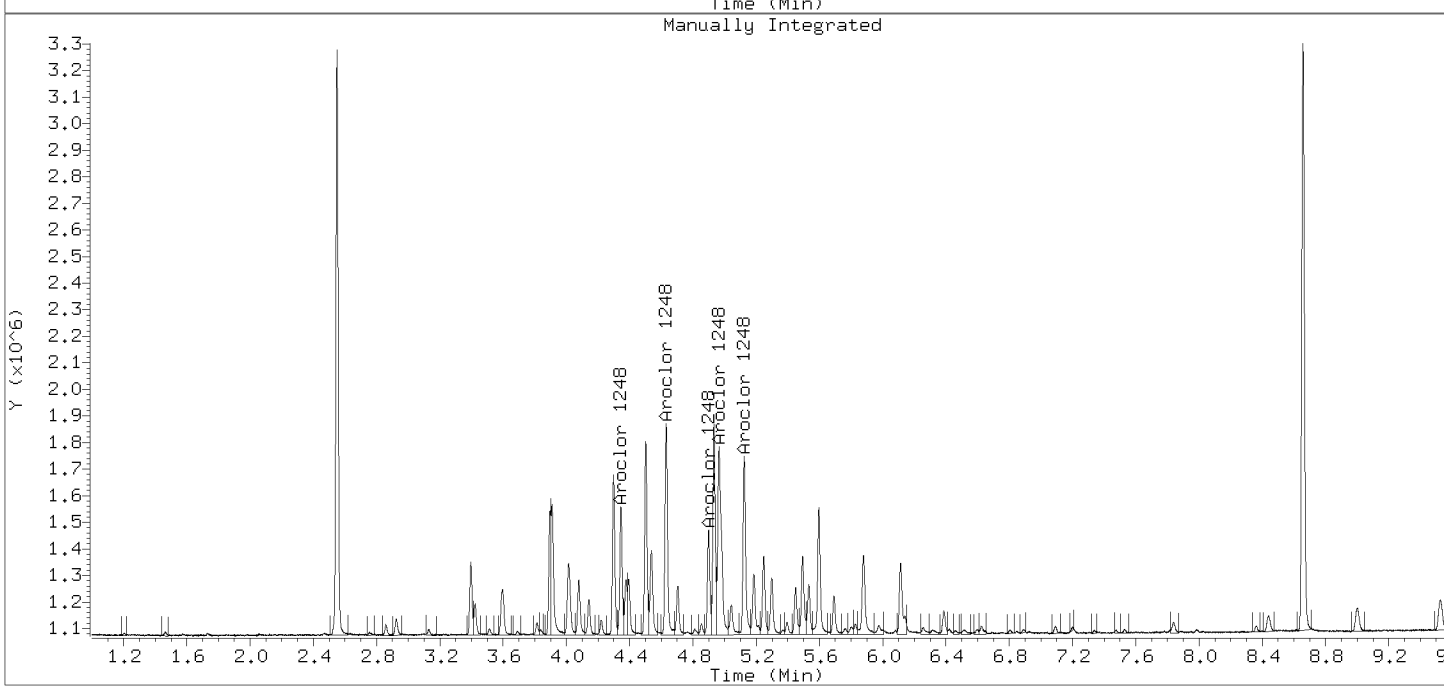
Injection Date: 03-MAY-2018 14:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL2D





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.

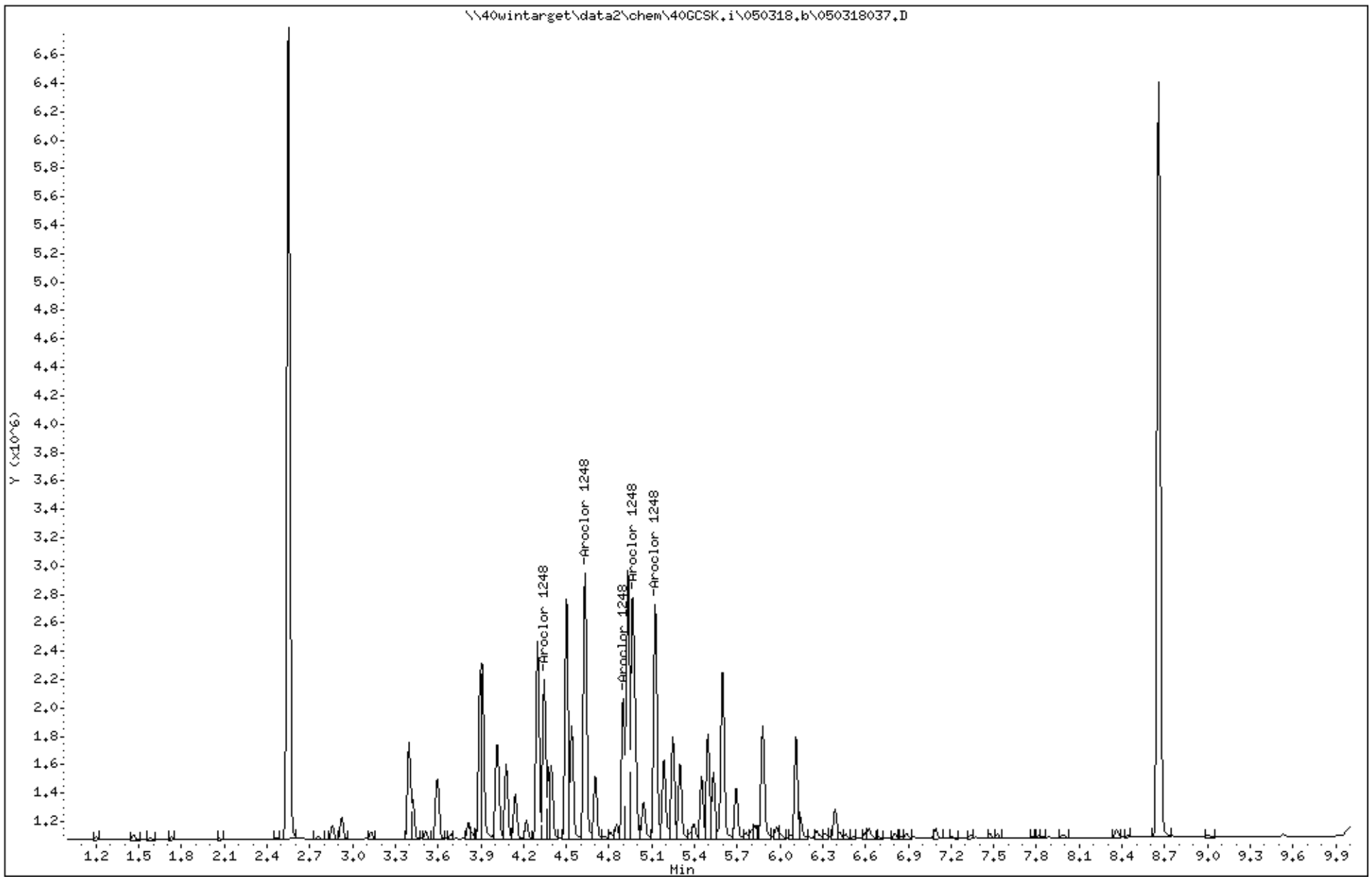
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Date : 03-MAY-2018 14:39
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSK.i

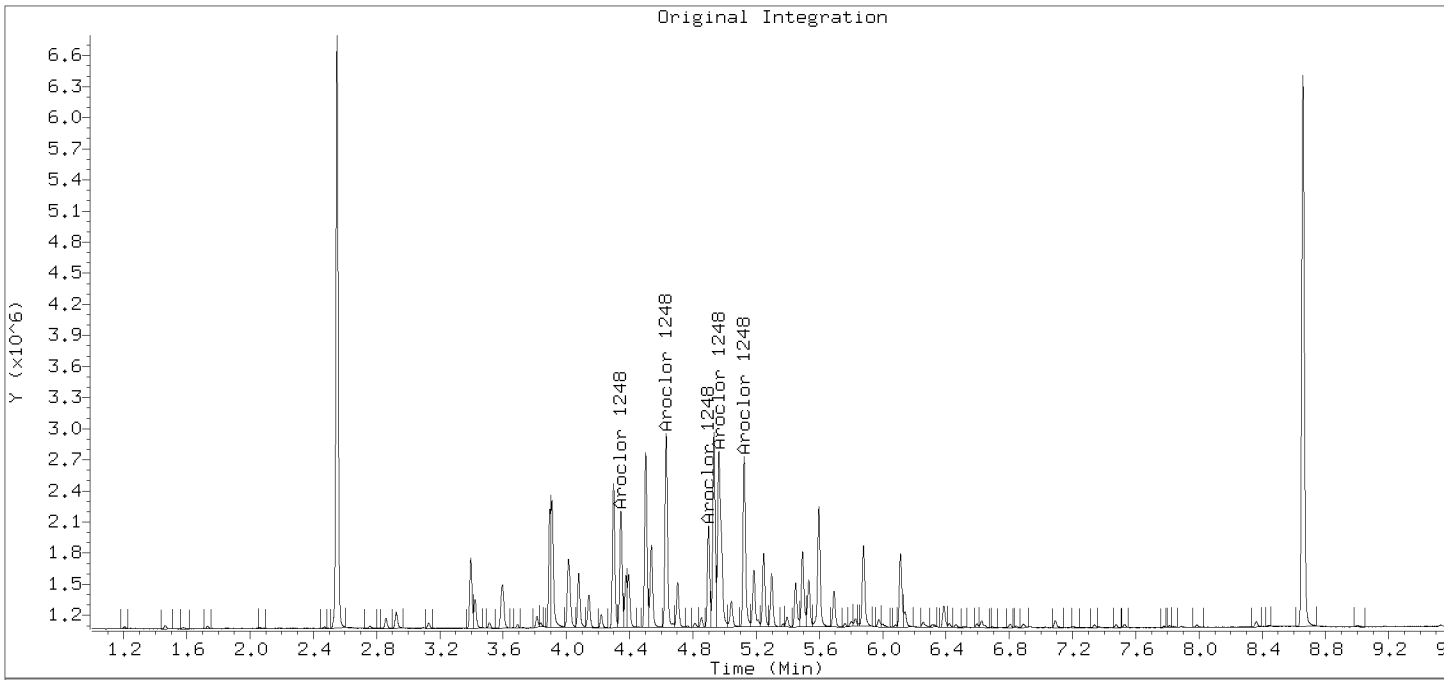
Operator: BLM

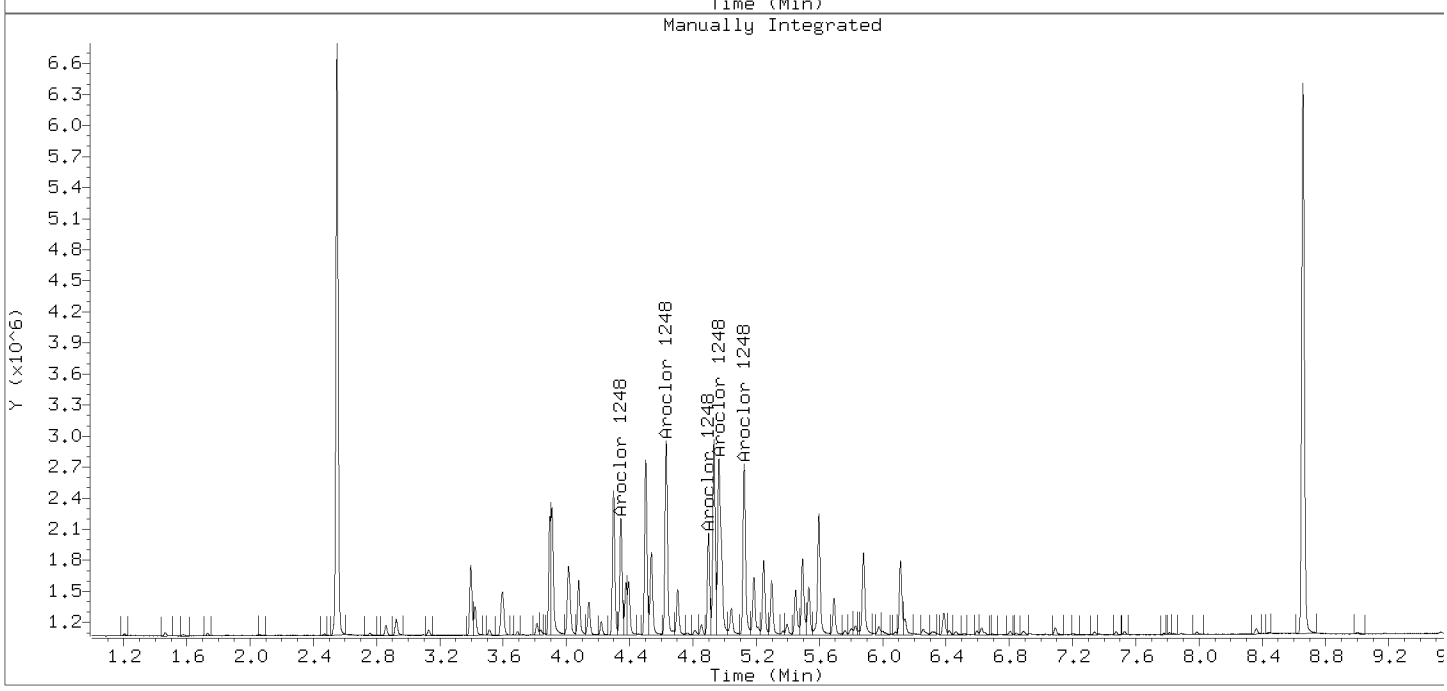
Column phase: ZB-1ms

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.

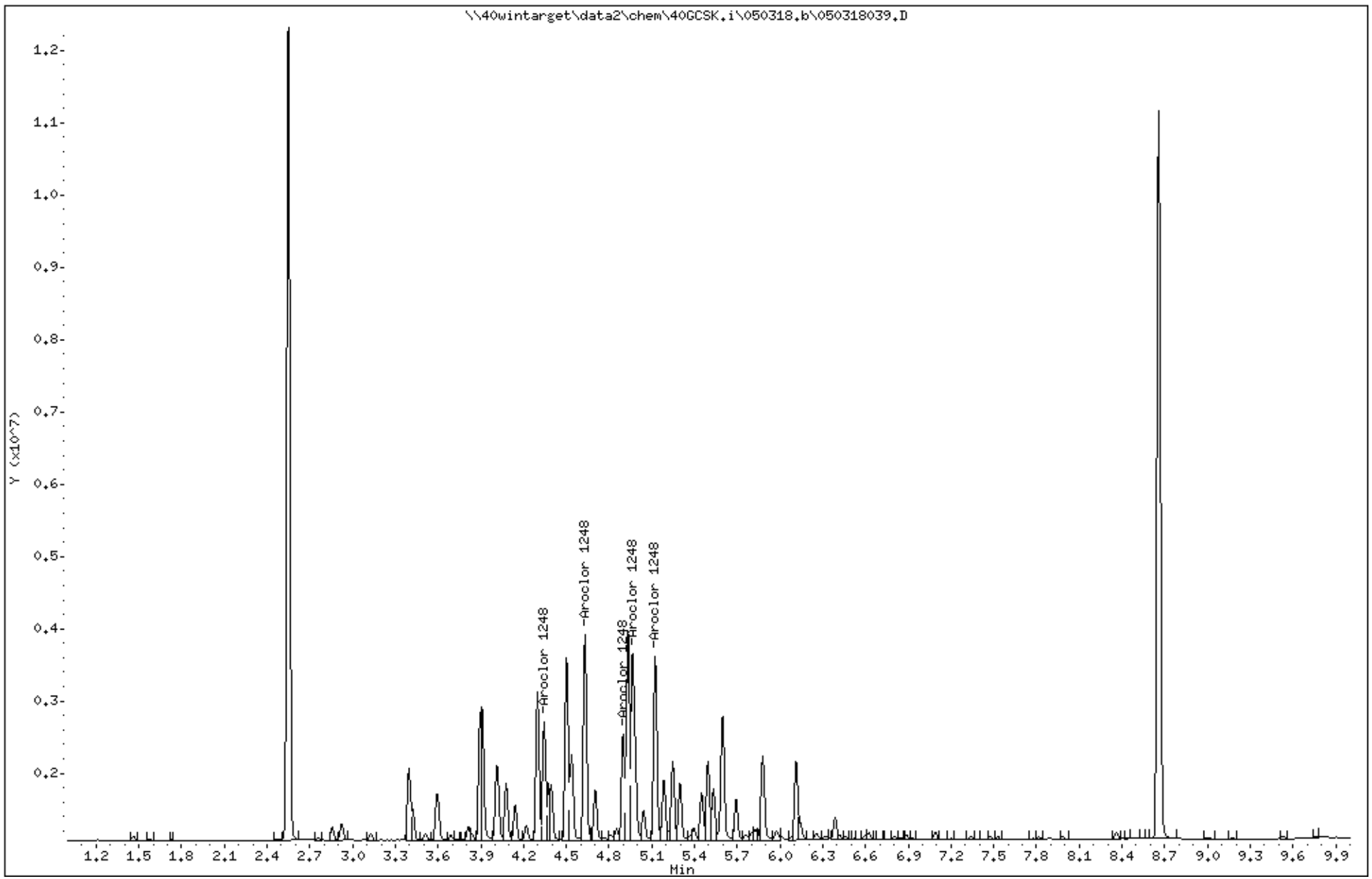
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Date : 03-MAY-2018 14:56
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSK.i

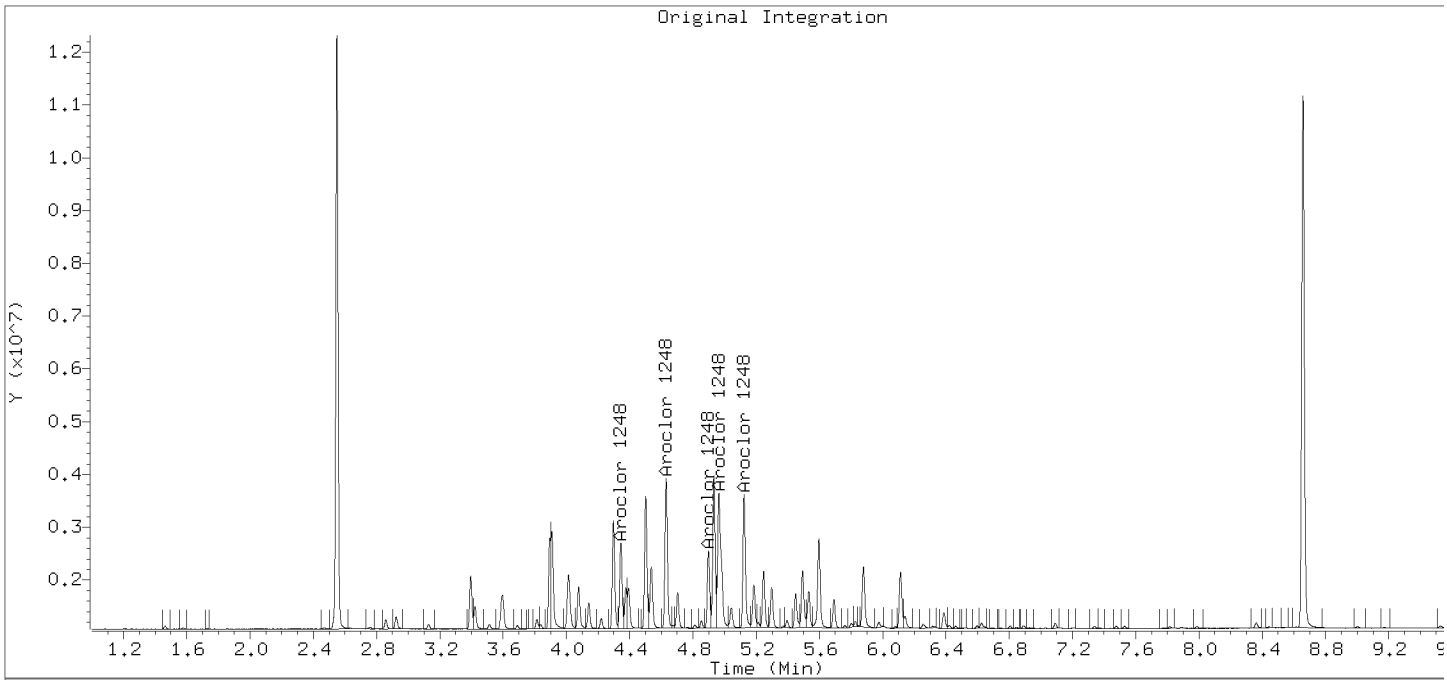
Operator: BLM

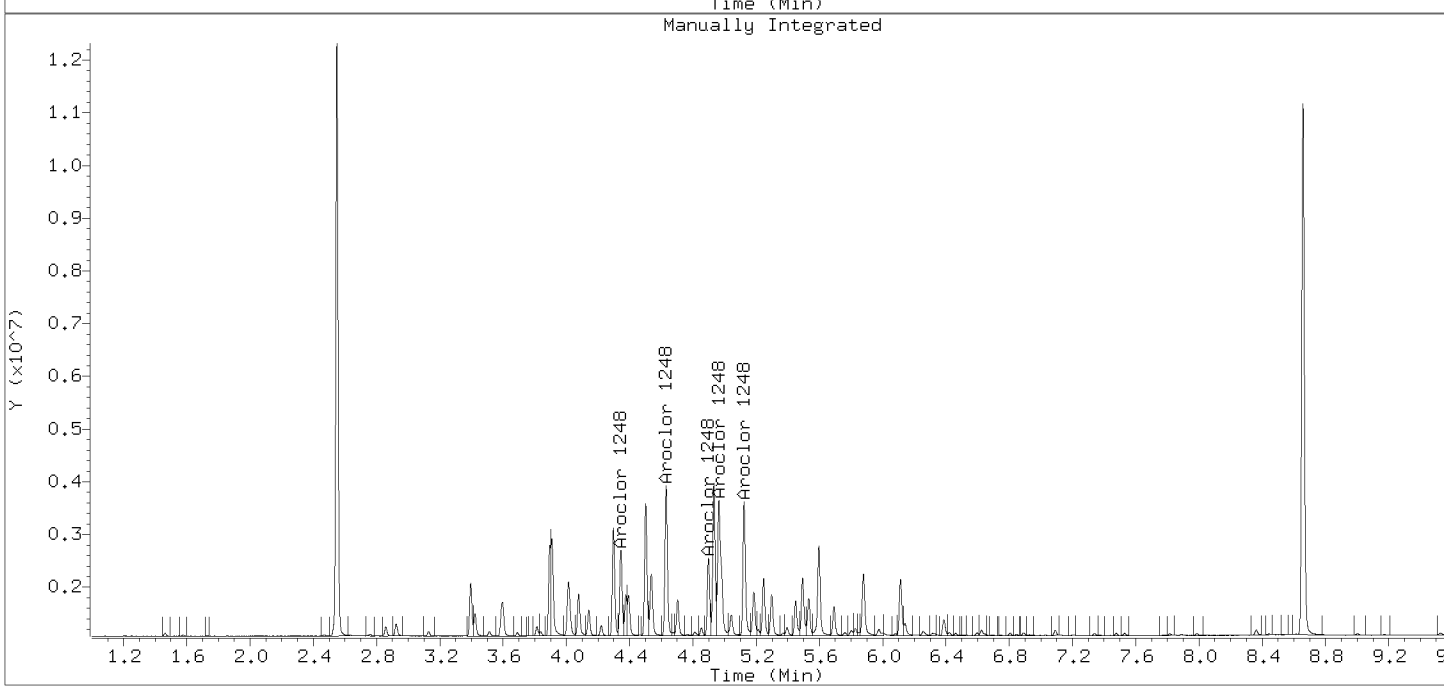
Column phase: ZB-1ms

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

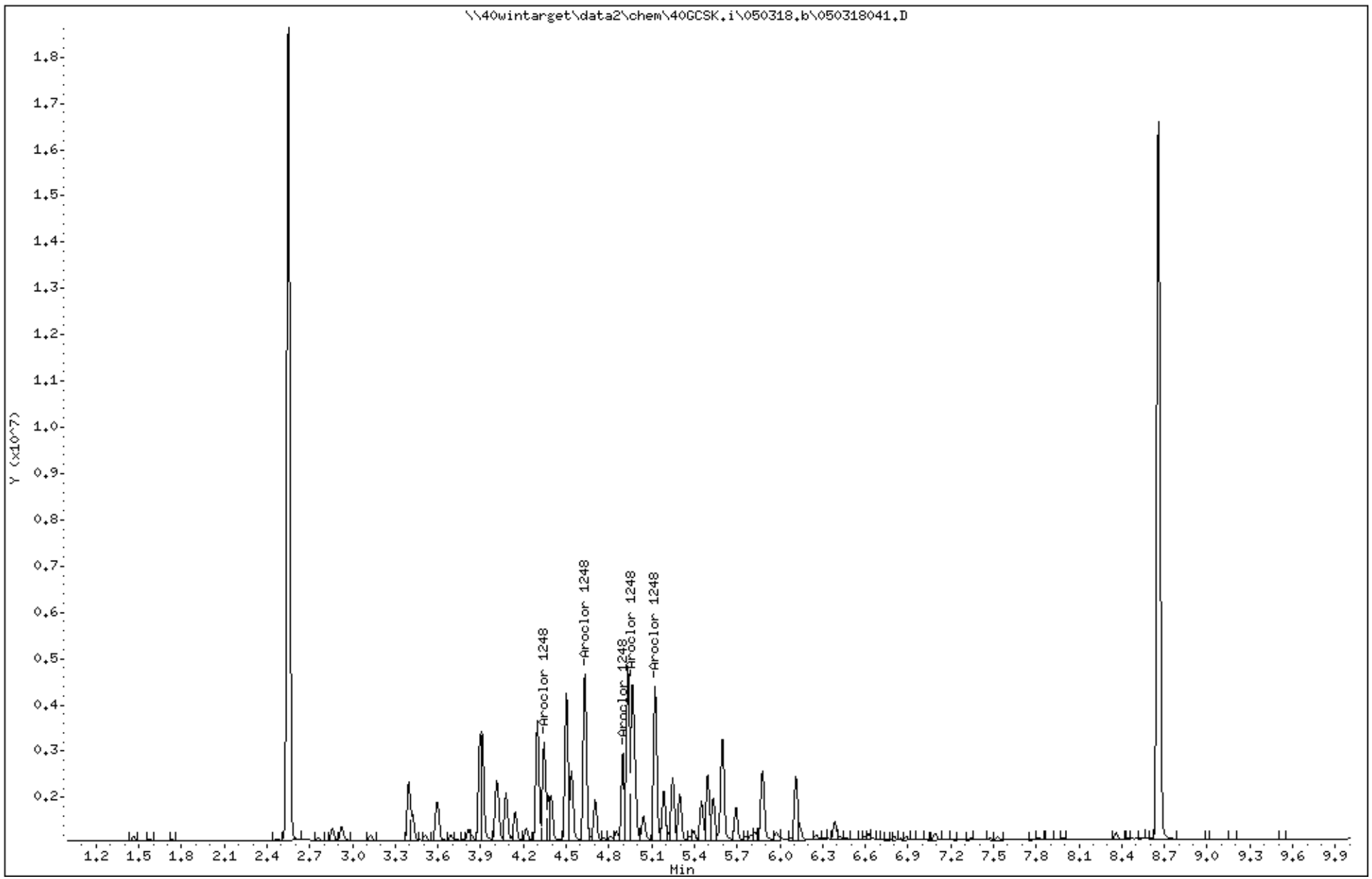
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

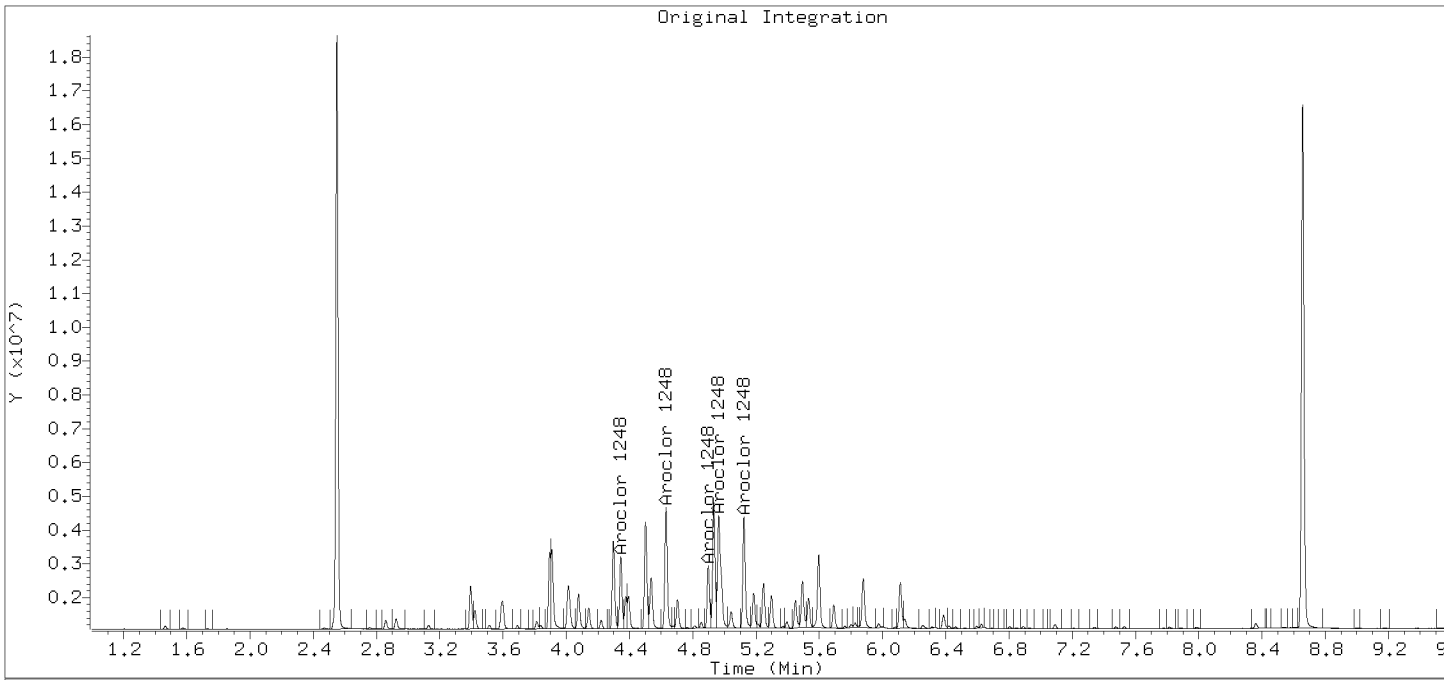
Operator: BLM

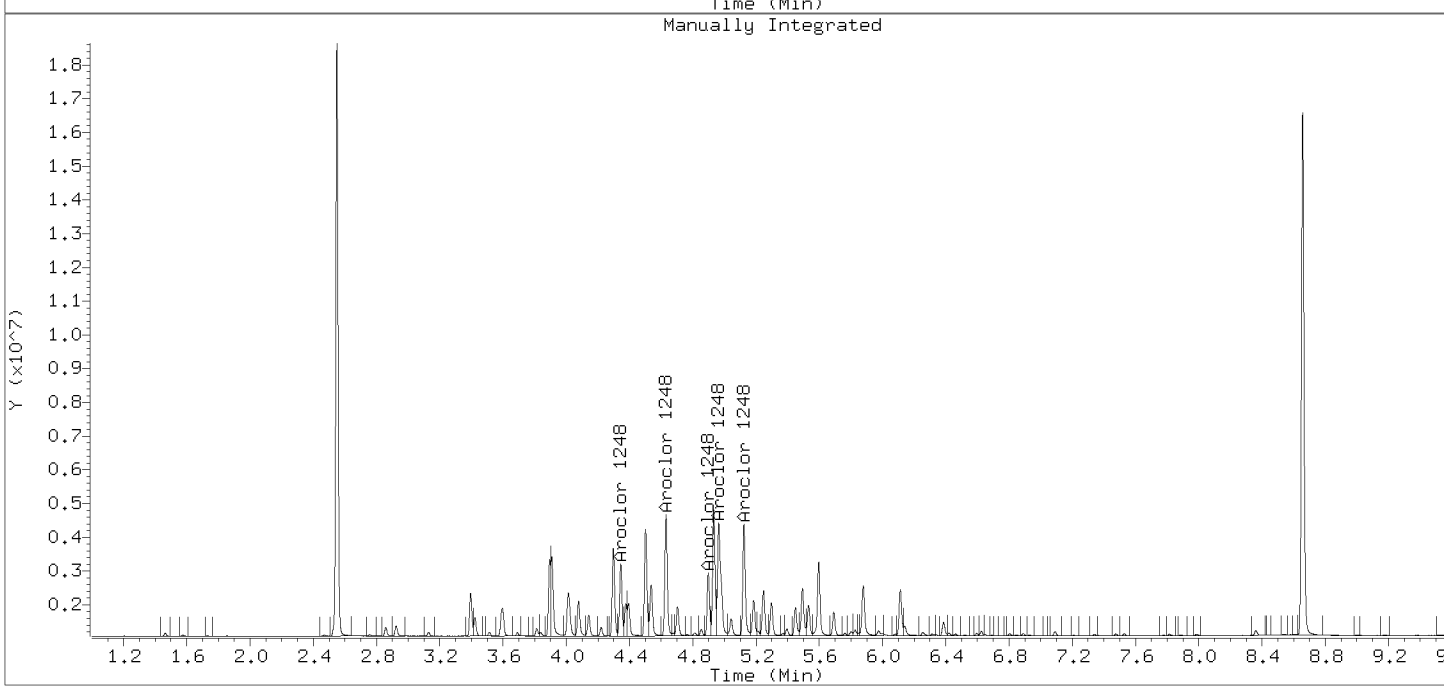
Column phase: ZB-1ms

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

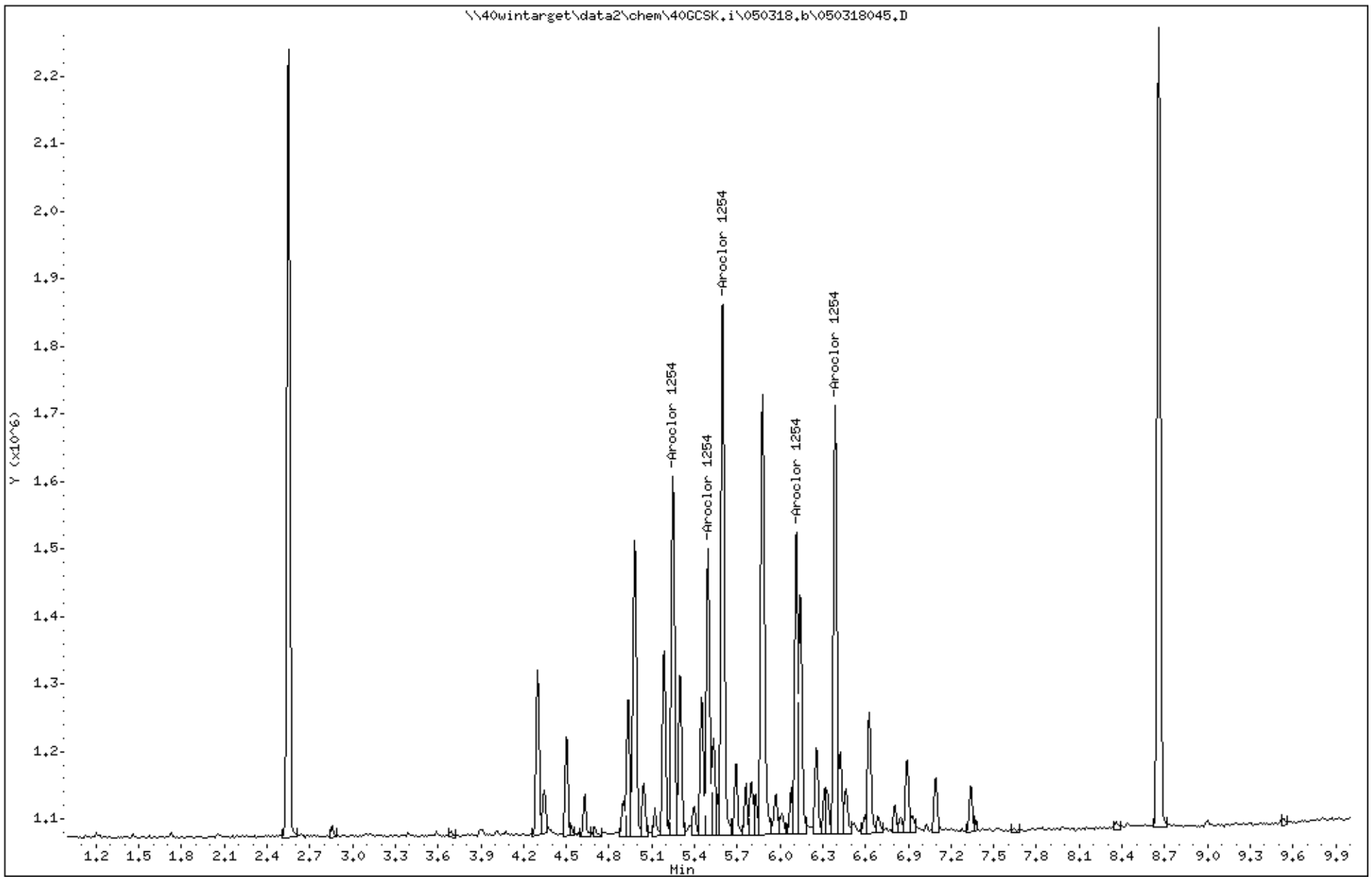
Instrument: 40GCSK.i

Sample Info: 1254-CAL1C, 188135:1

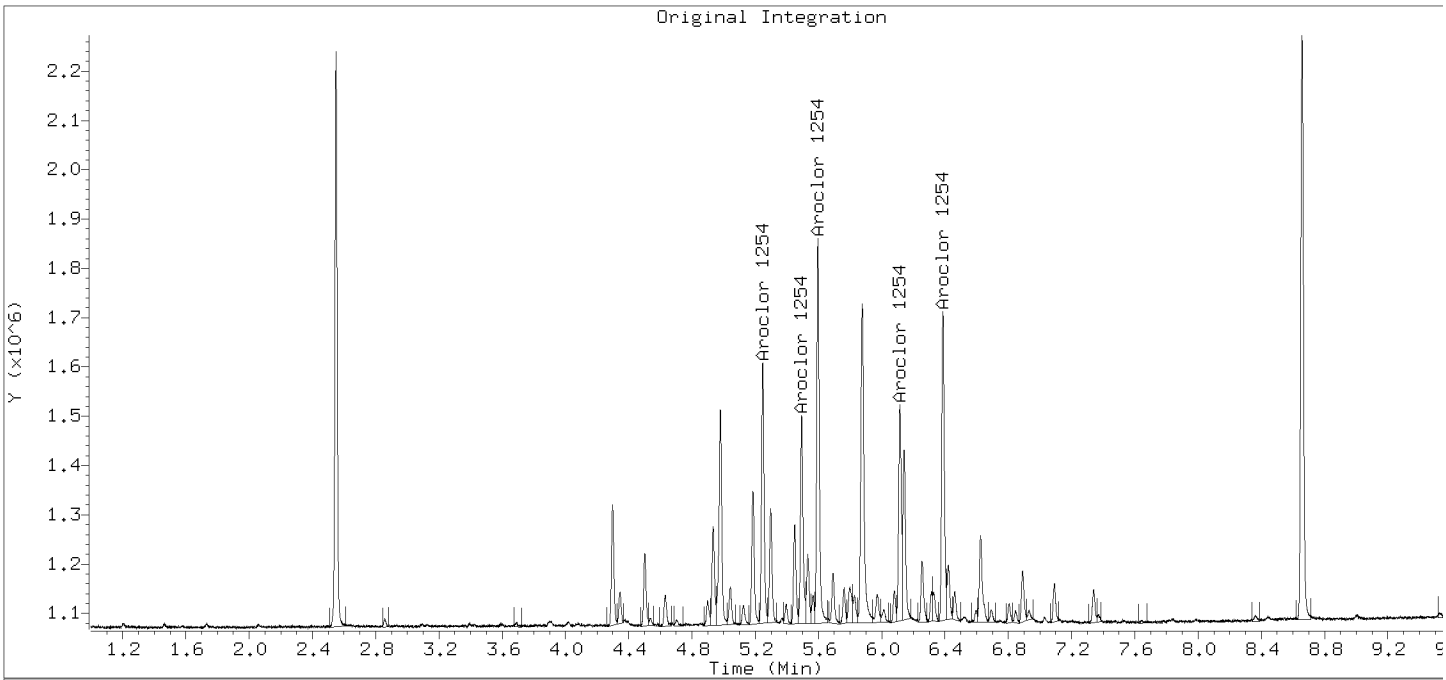
Operator: BLM

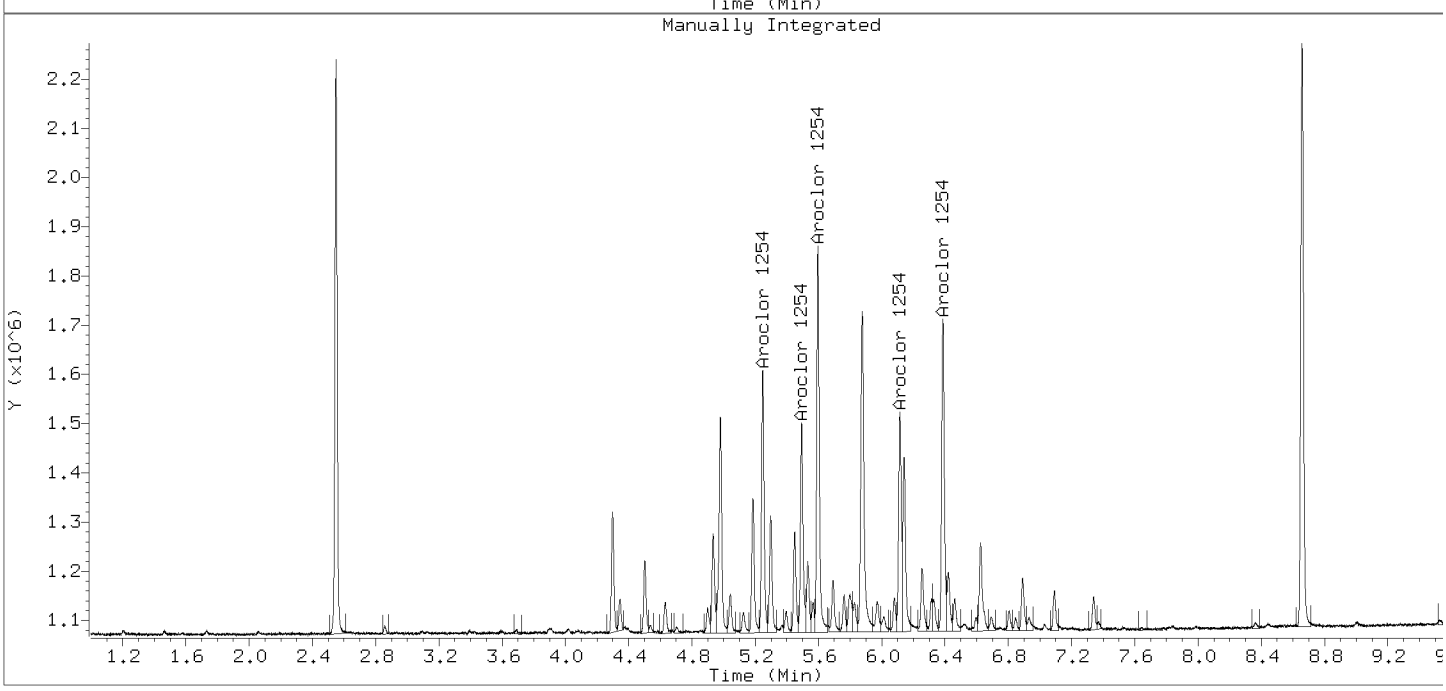
Column phase: ZB-1ms

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

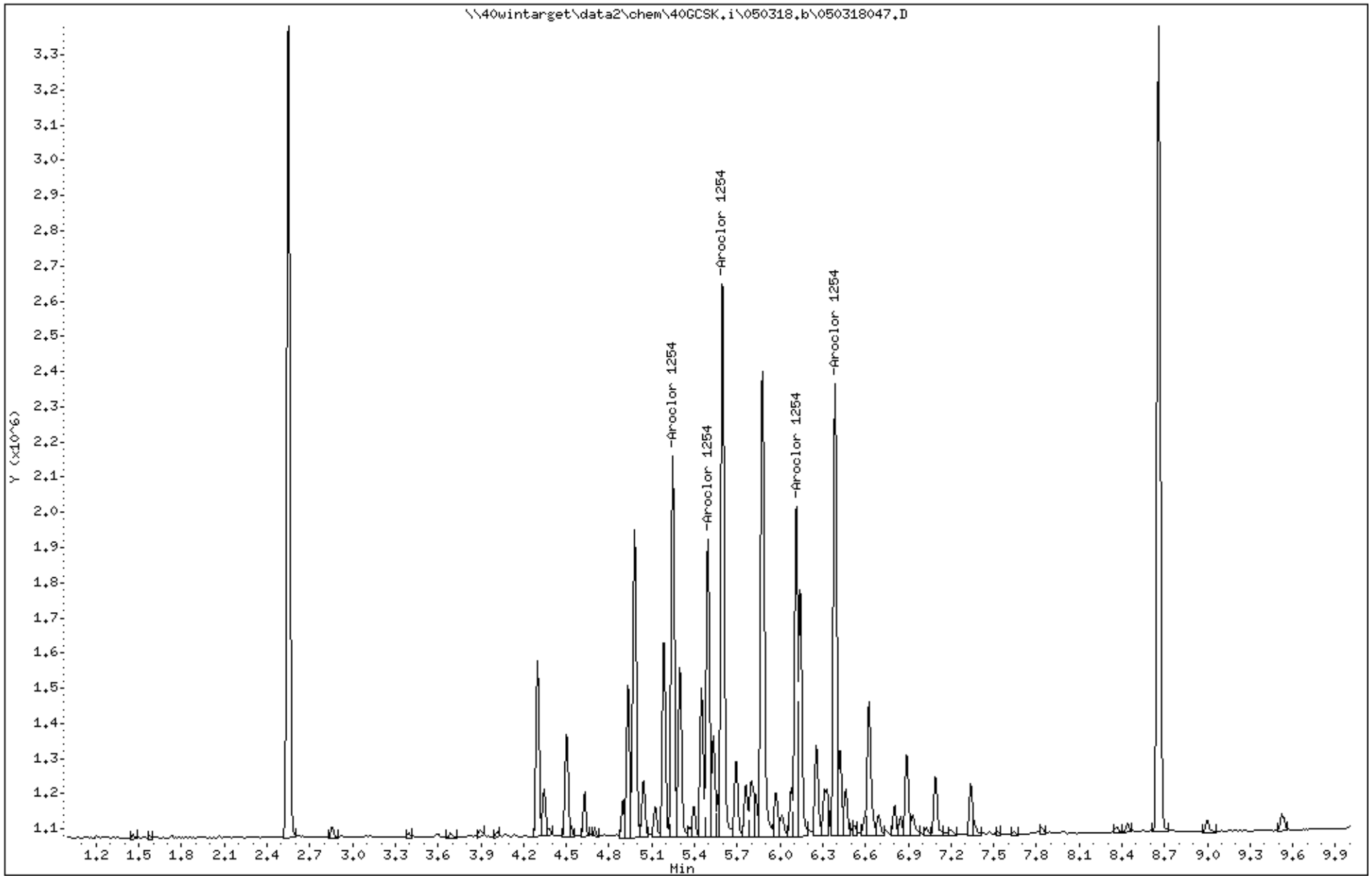
Instrument: 40GCSK.i

Sample Info: 1254-CAL2C, 185553:1

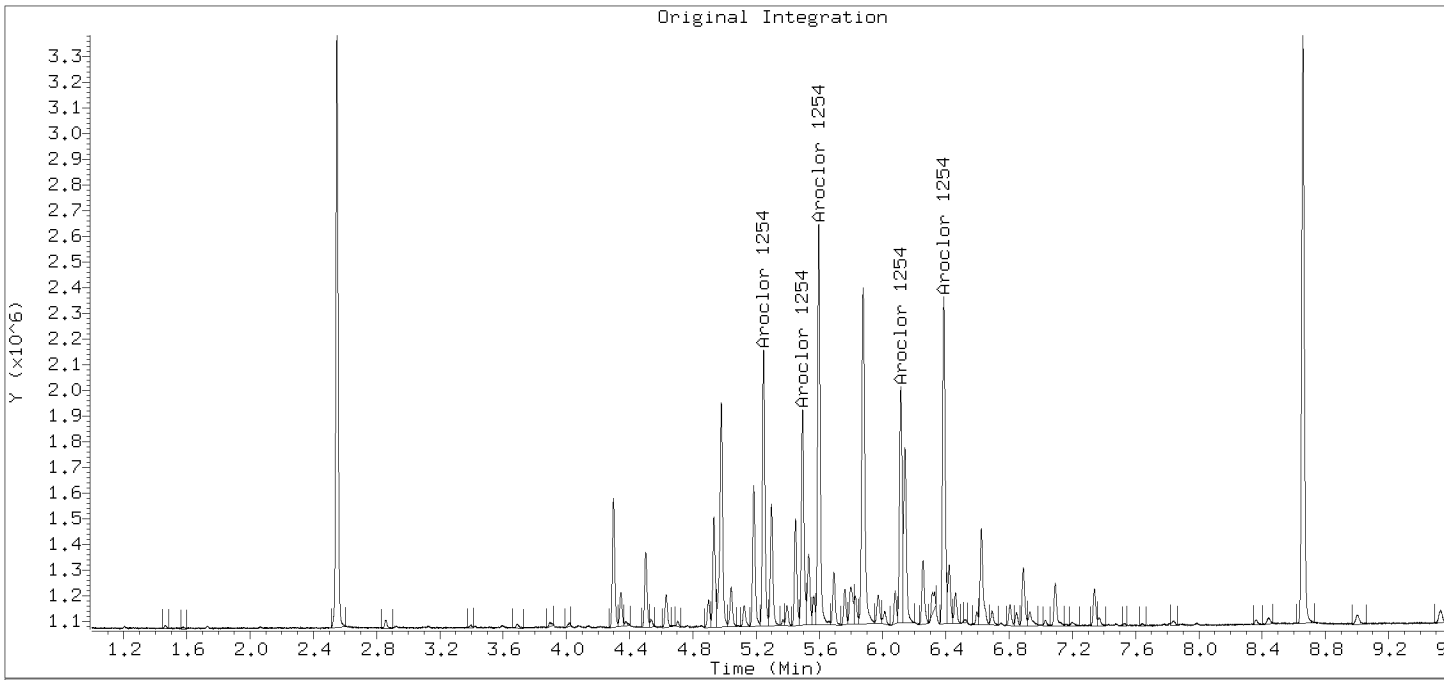
Operator: BLM

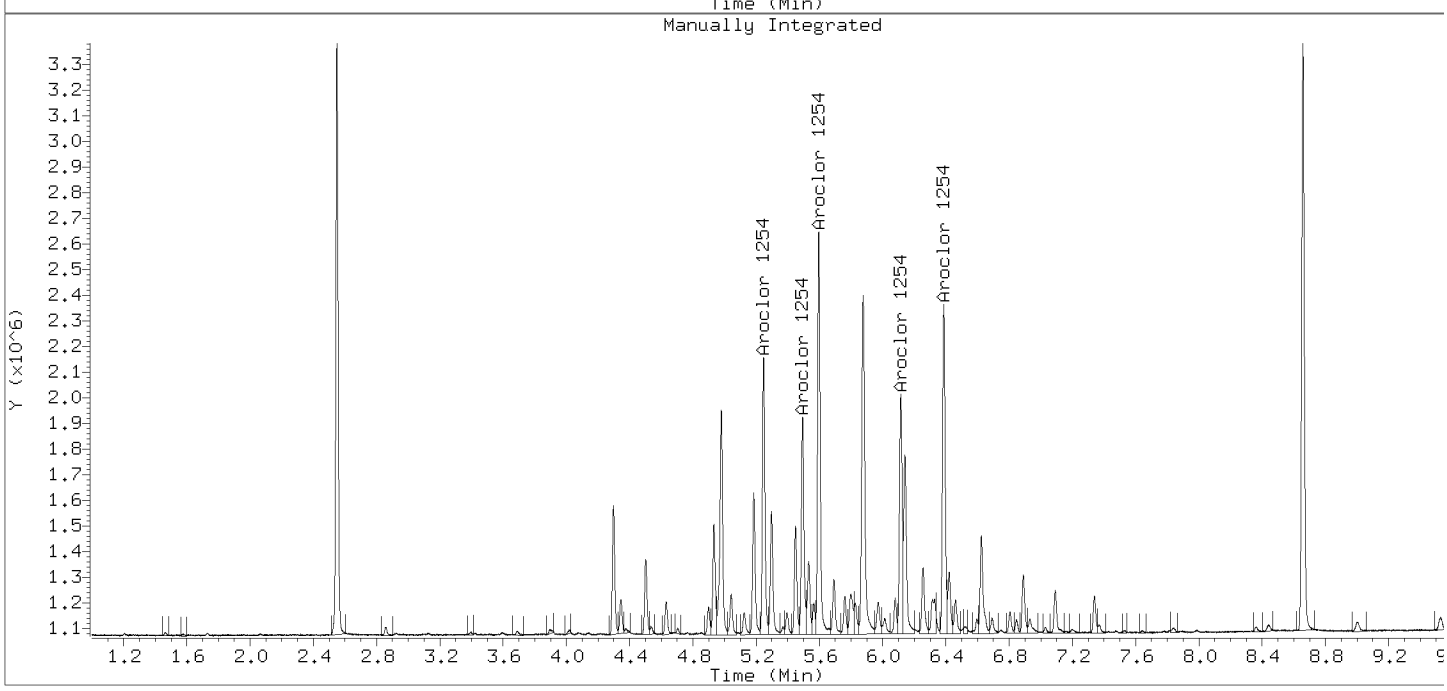
Column phase: ZB-1ms

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

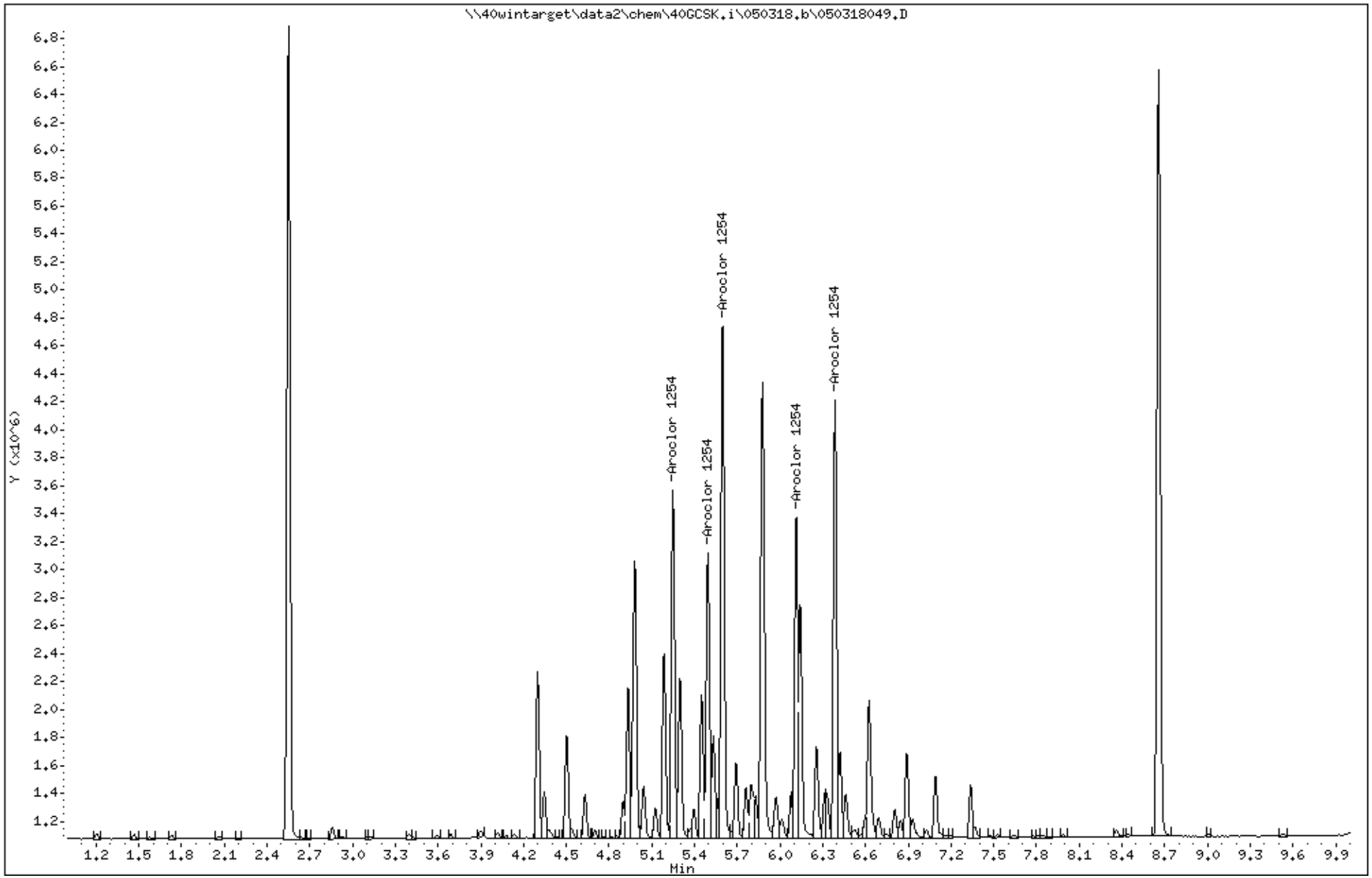
Instrument: 40GCSK.i

Sample Info: 1254-CAL3C, 185554:1

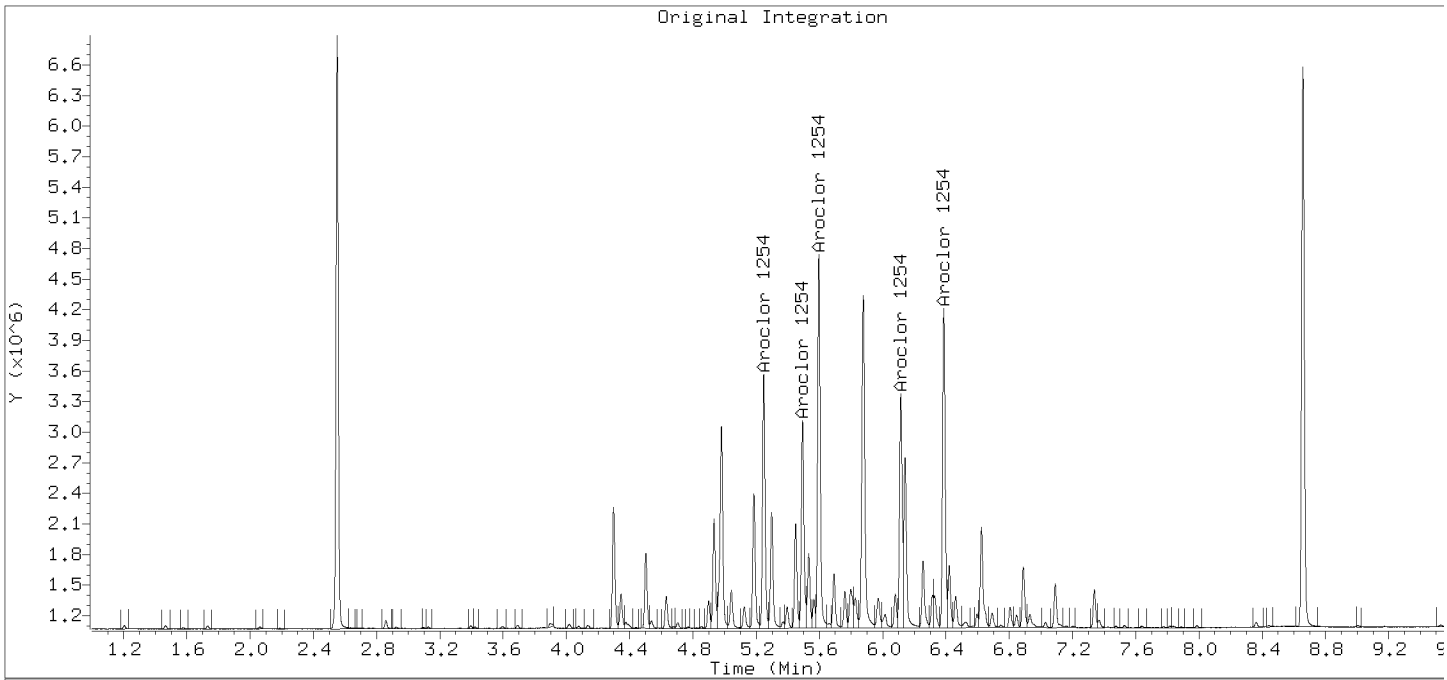
Operator: BLM

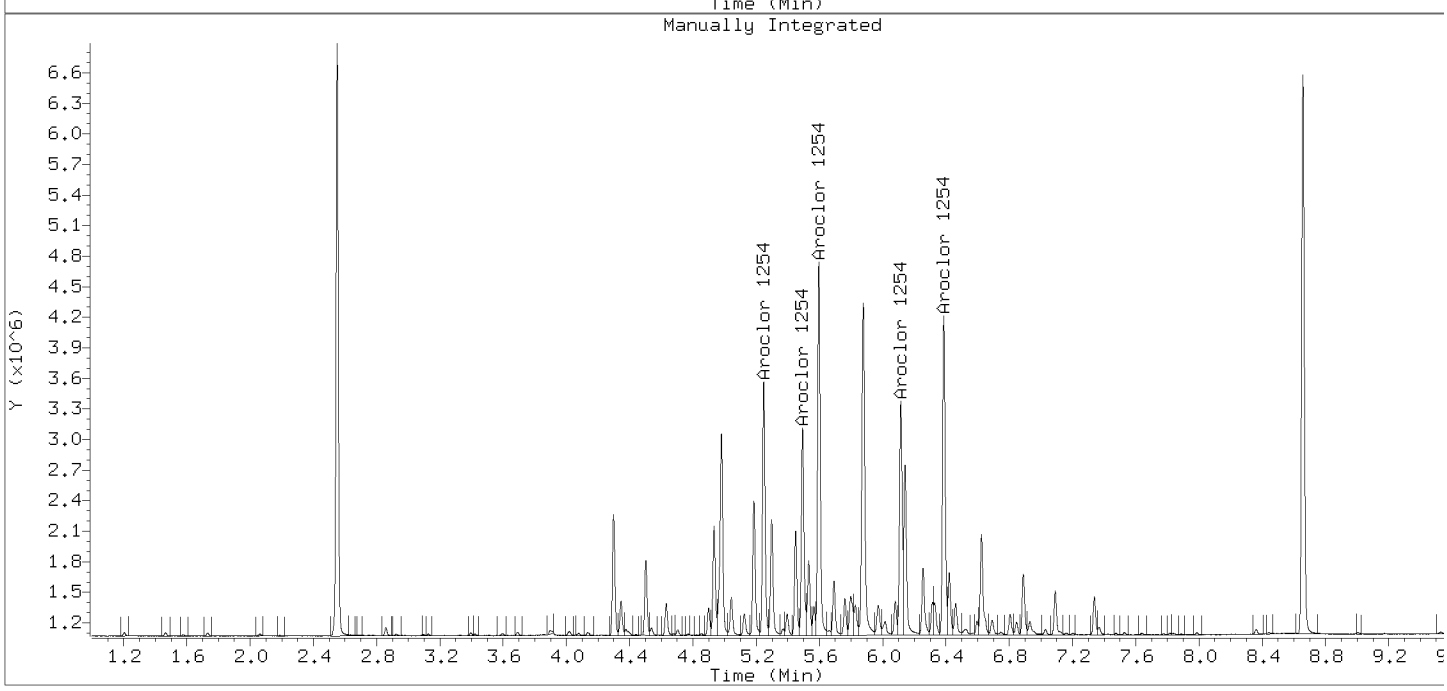
Column phase: ZB-1ms

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

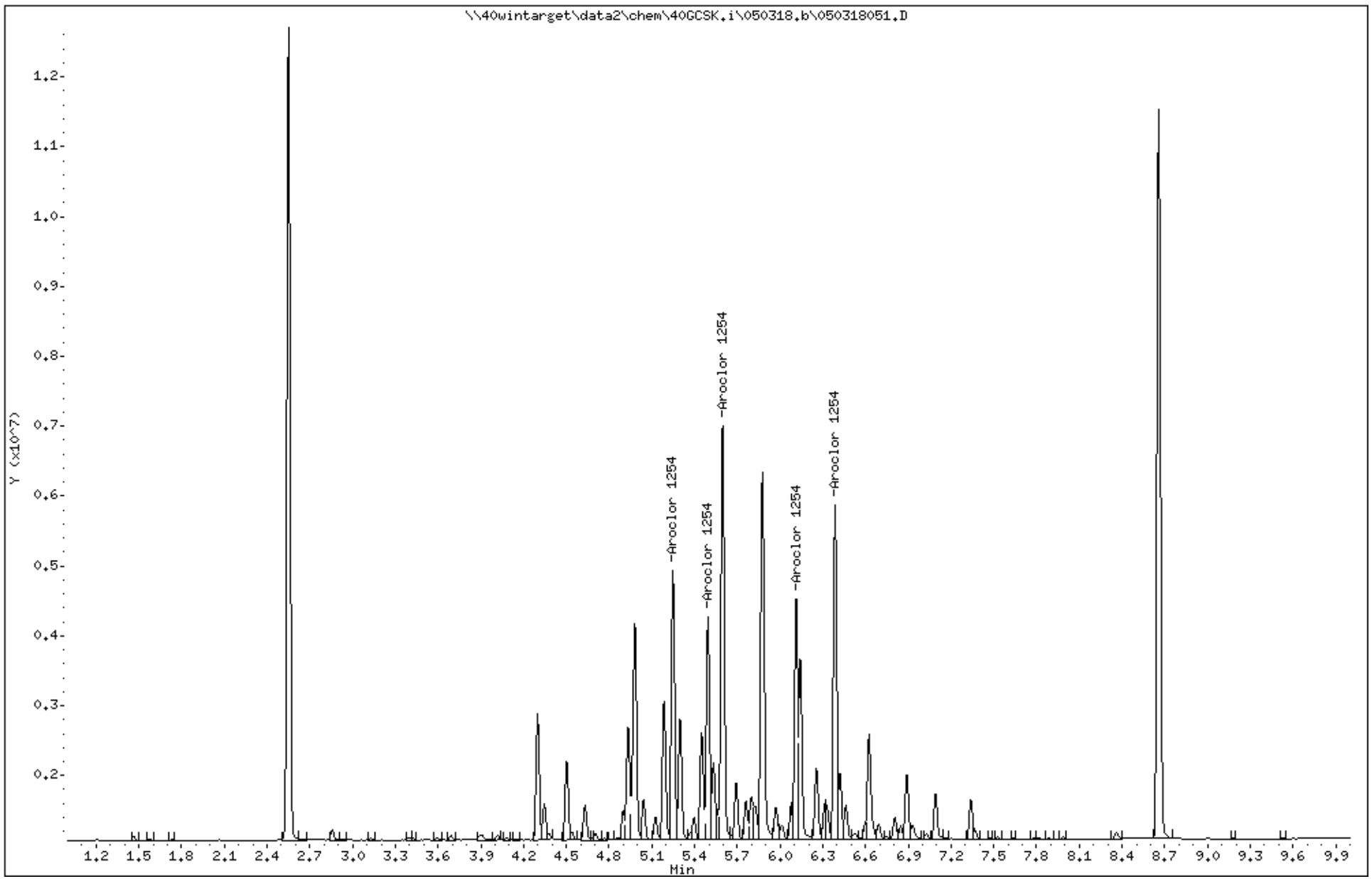
M - Compound response manually integrated.

Review Codes Legend

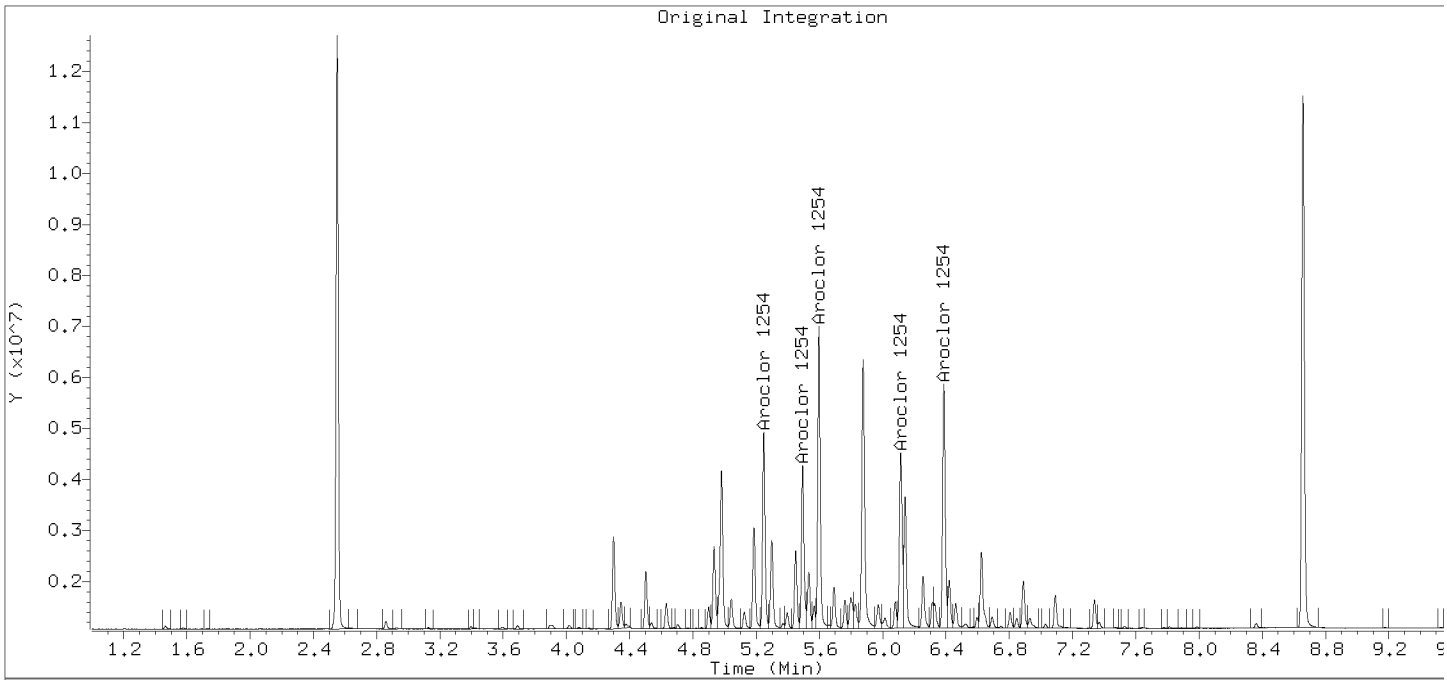
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

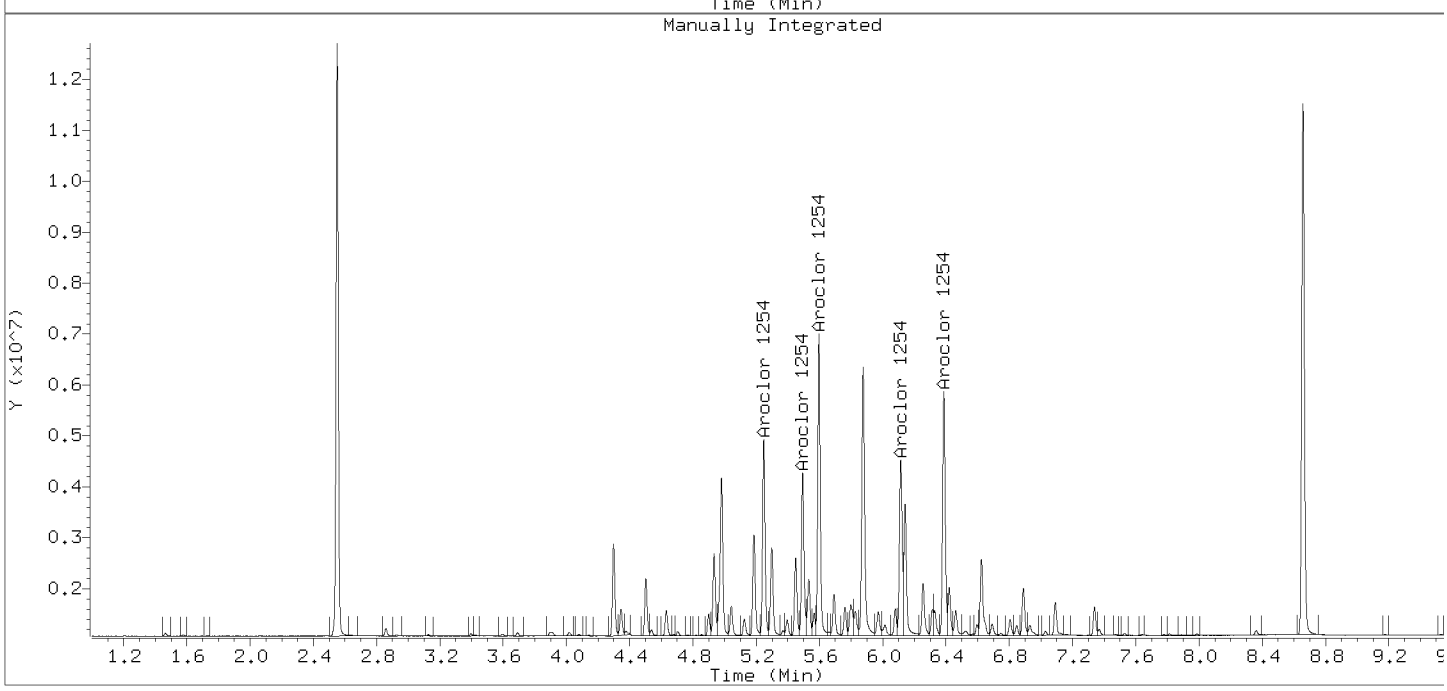
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D
Date : 03-MAY-2018 16:33
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSK.i
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

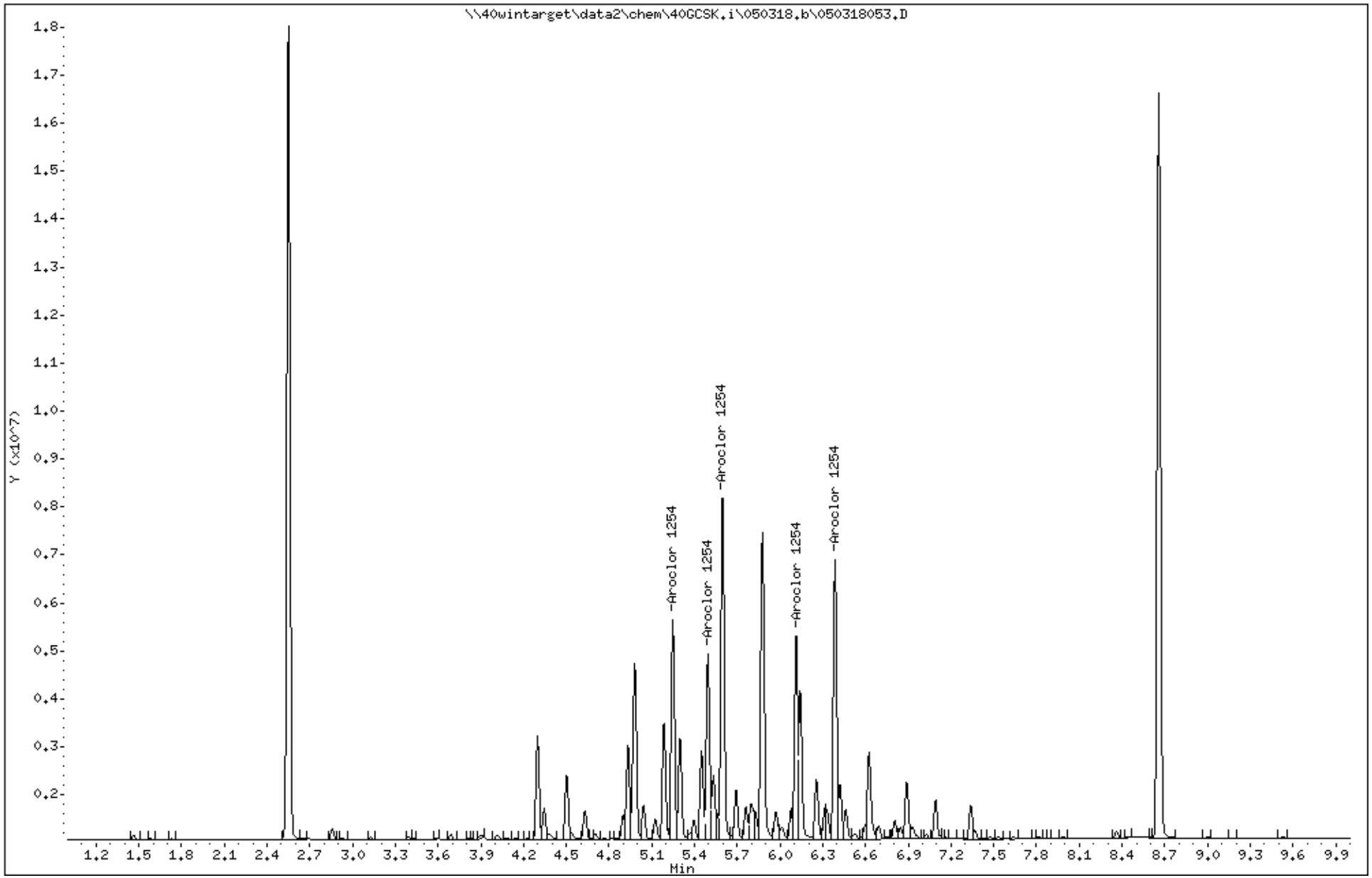
M - Compound response manually integrated.

Review Codes Legend

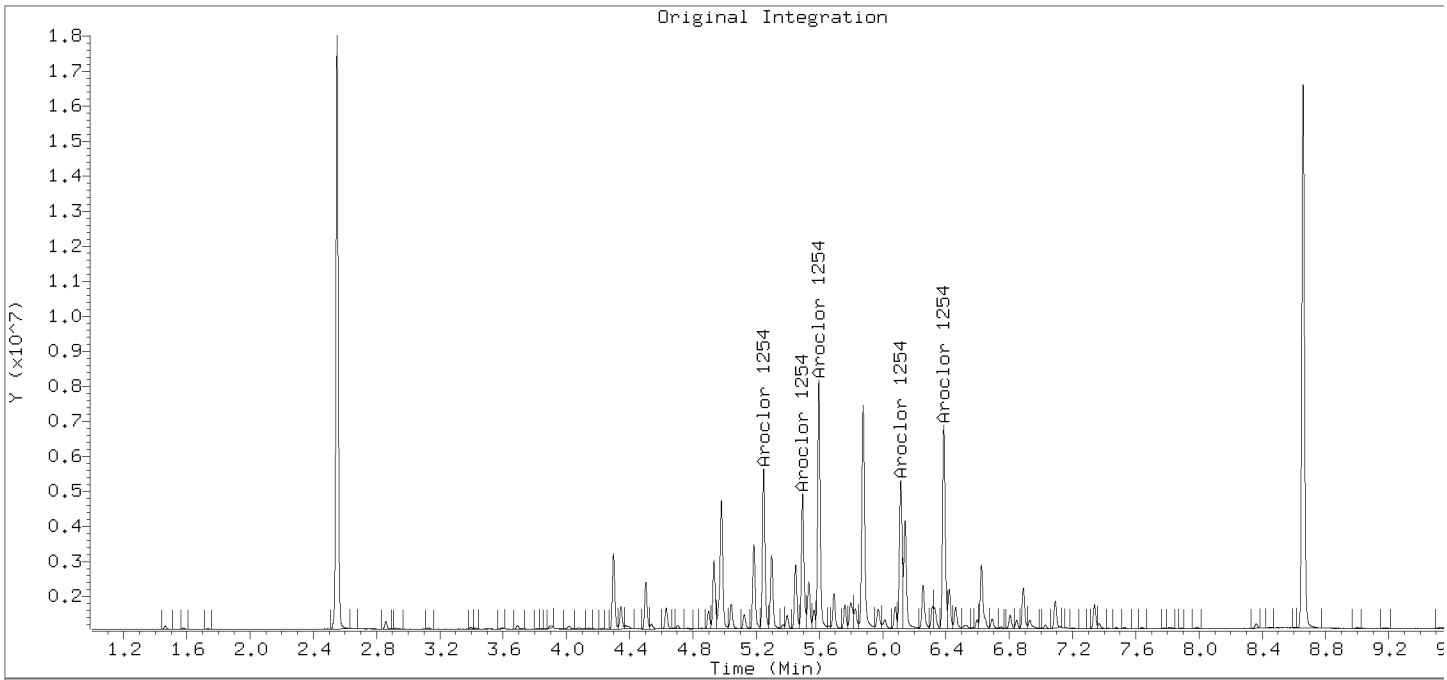
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

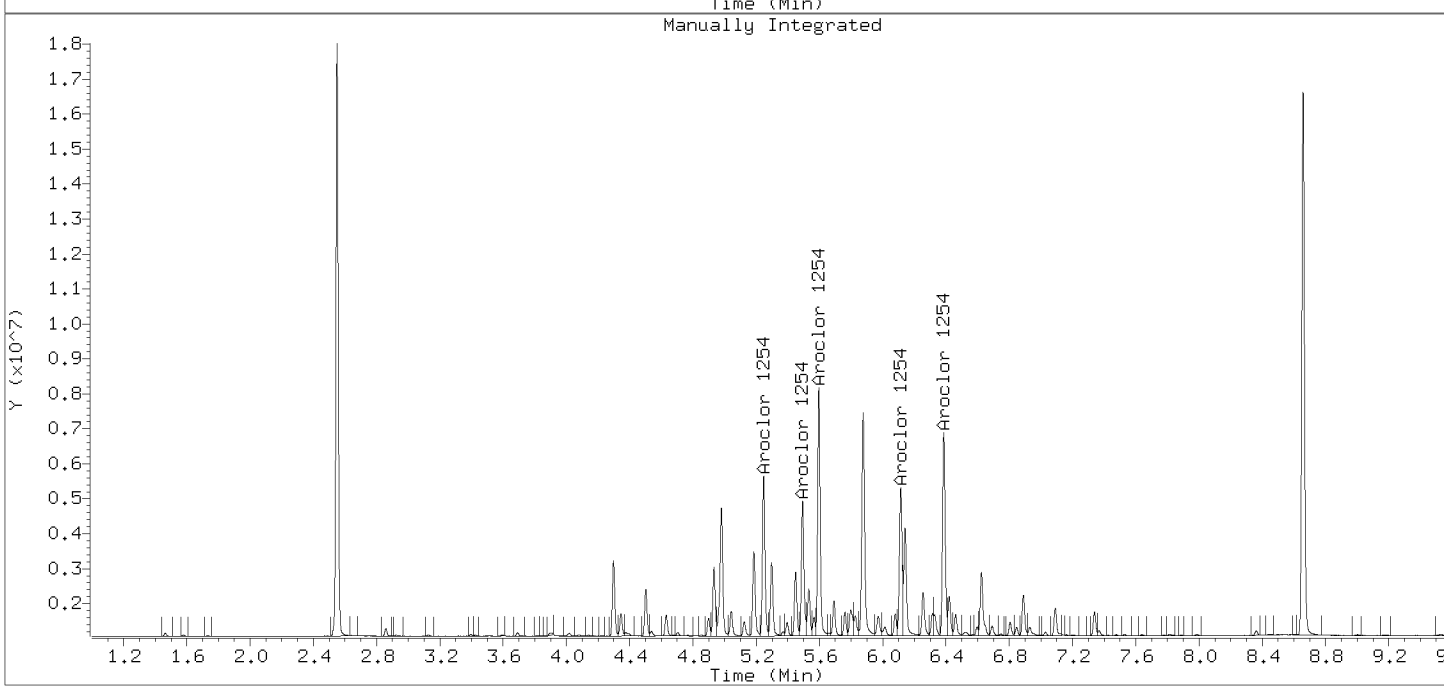
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D
Date : 03-MAY-2018 16:49
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Instrument: 40GCSK.i
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

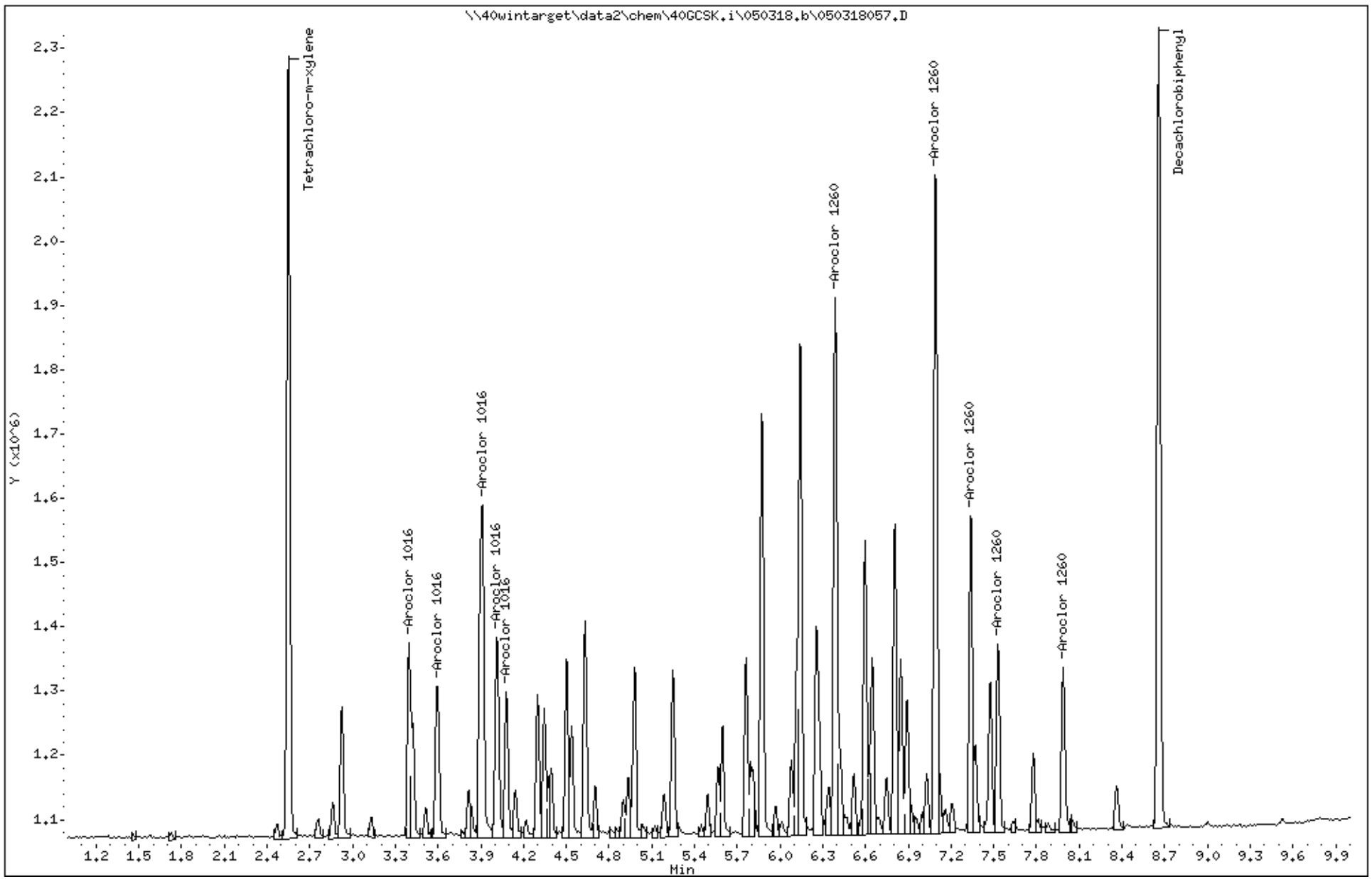
Instrument: 40GCSK.i

Sample Info: 1660-CAL1A, 188136:1

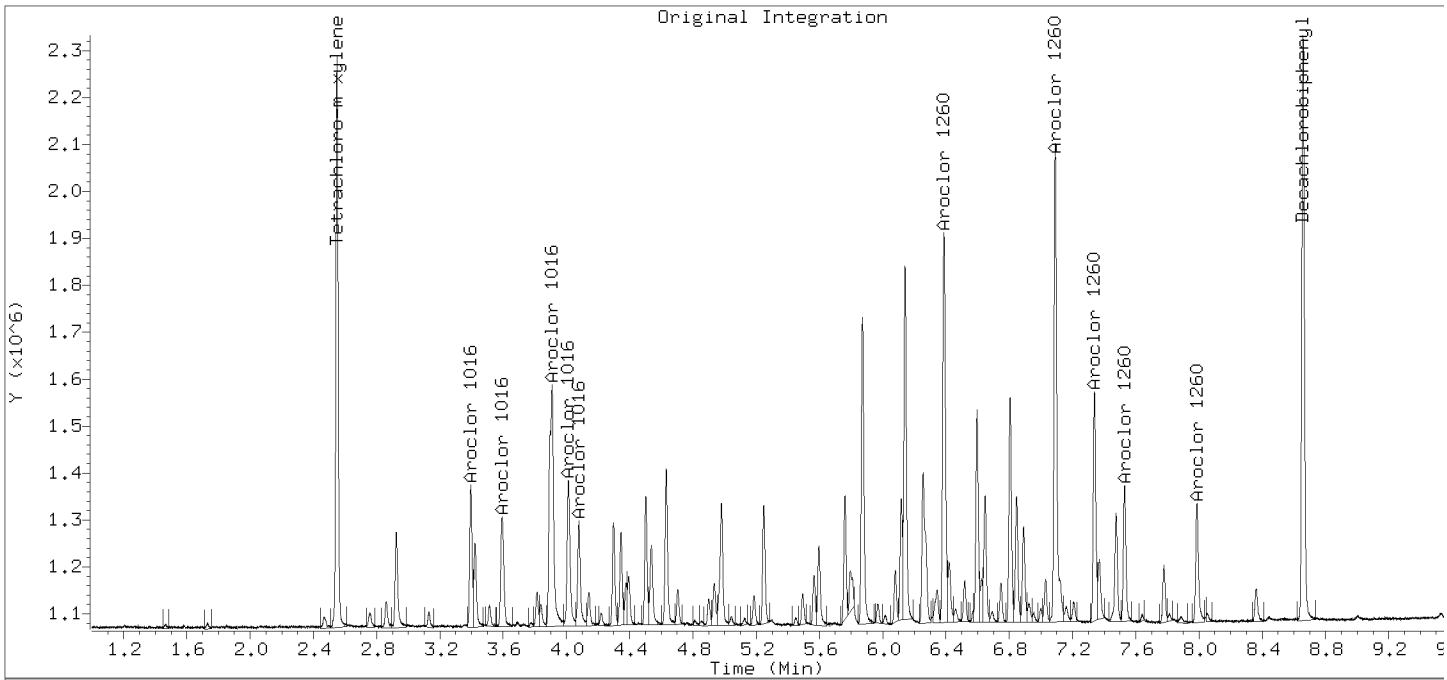
Operator: BLM

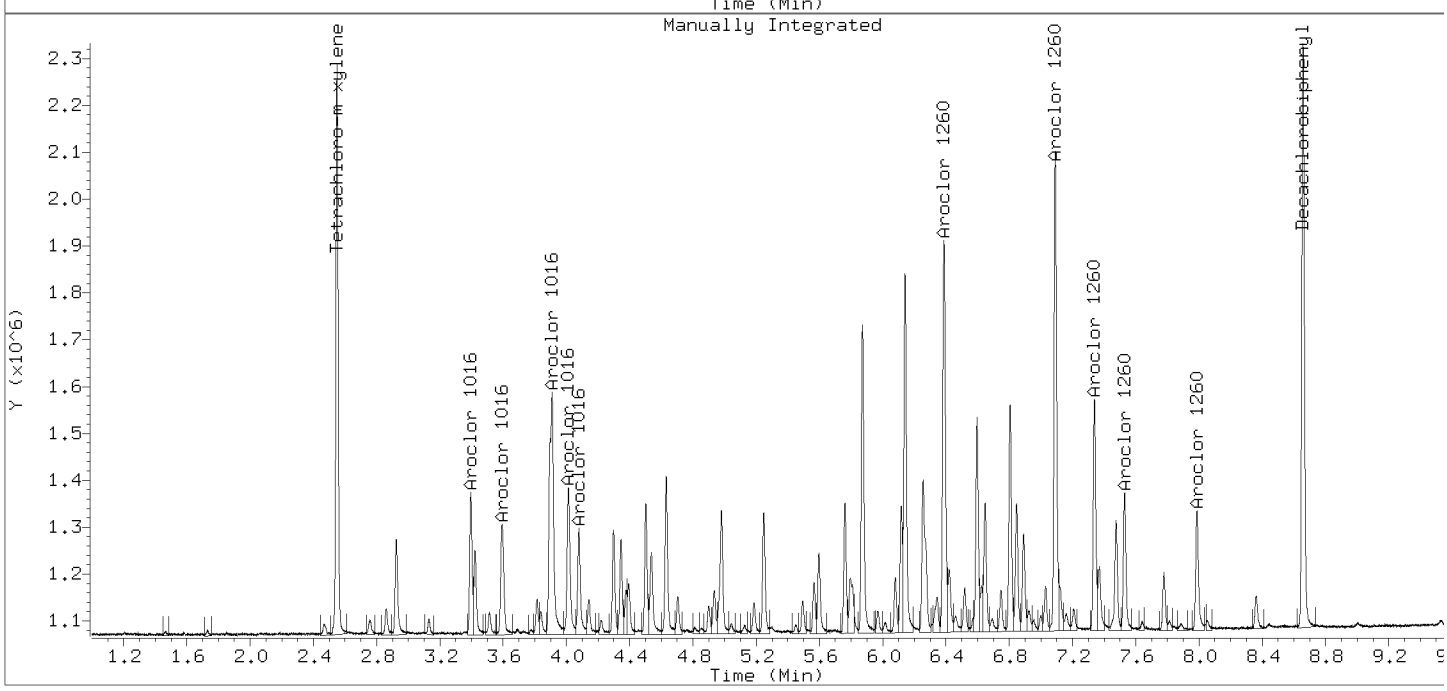
Column phase: ZB-1ms

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

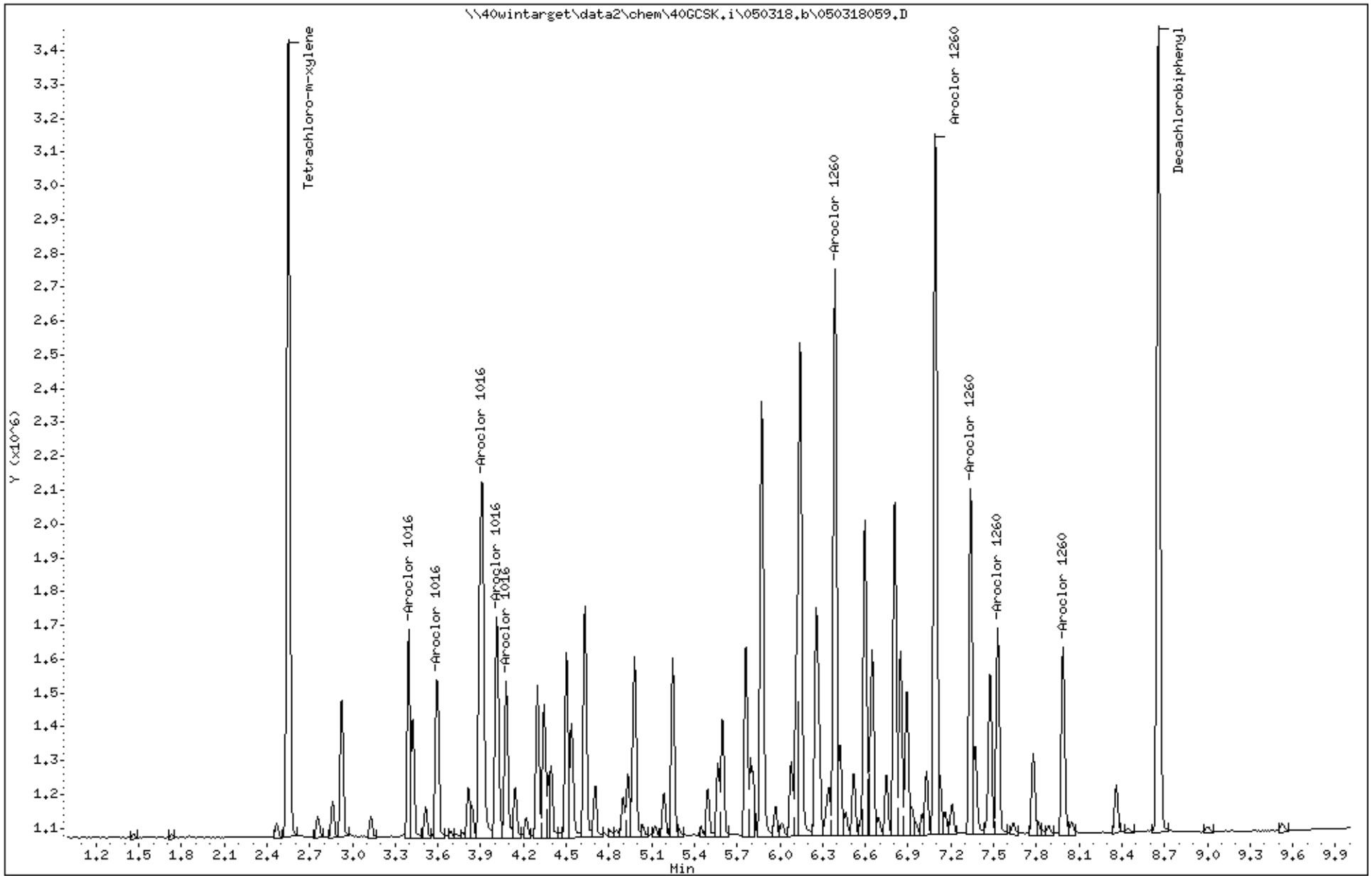
Instrument: 40GCSK.i

Sample Info: 1660-CAL2A, 185558:1

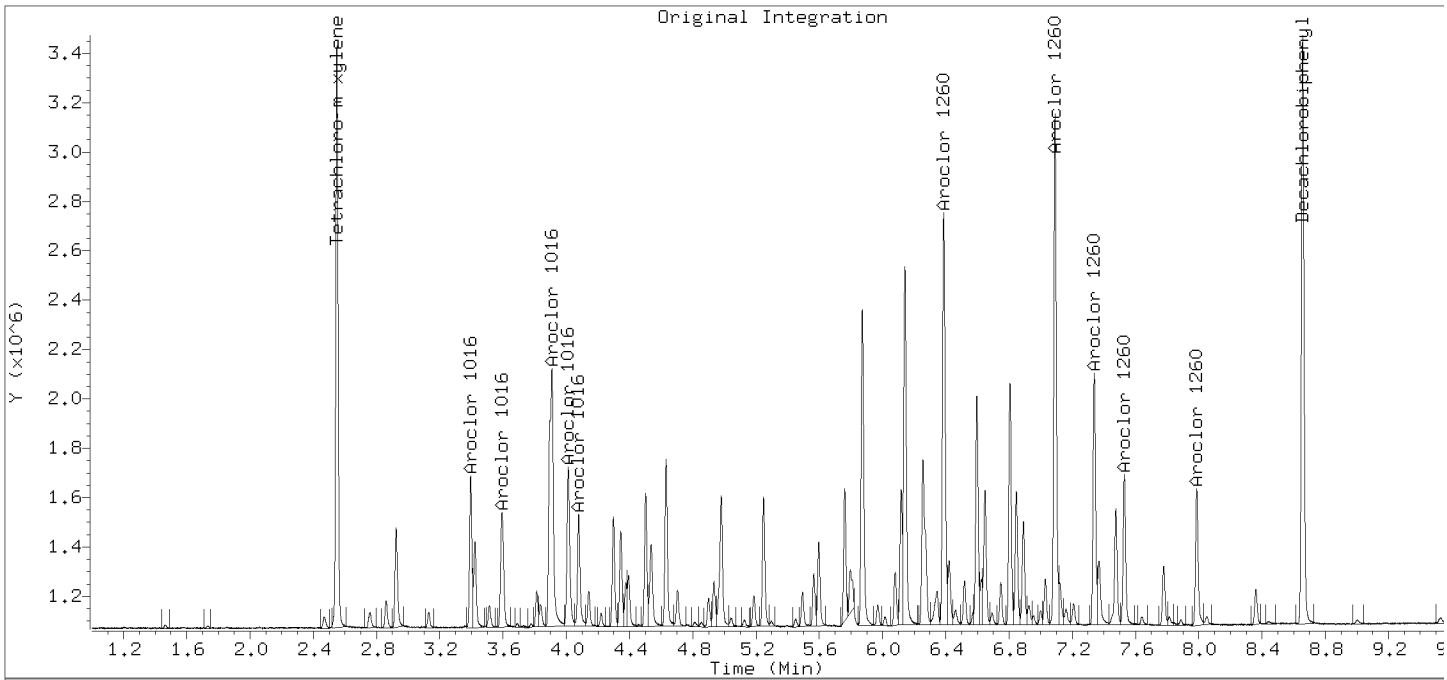
Operator: BLM

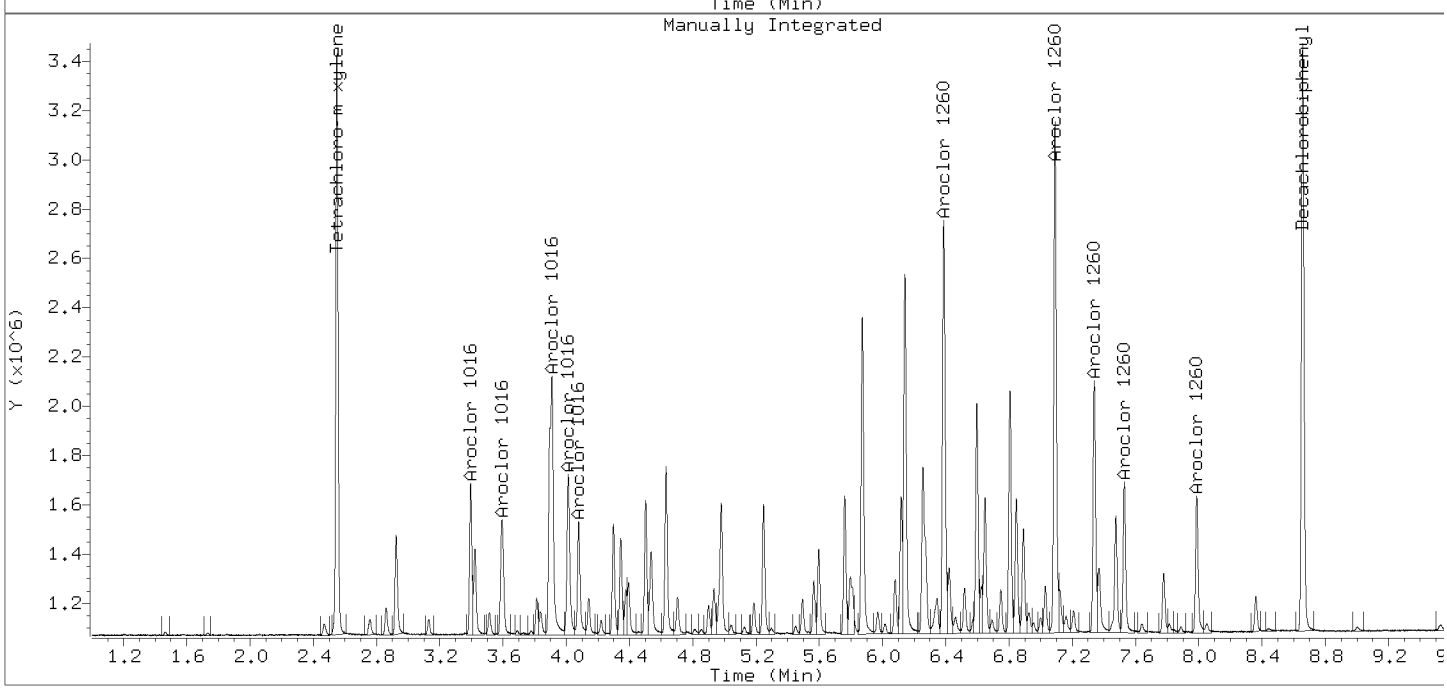
Column phase: ZB-1ms

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

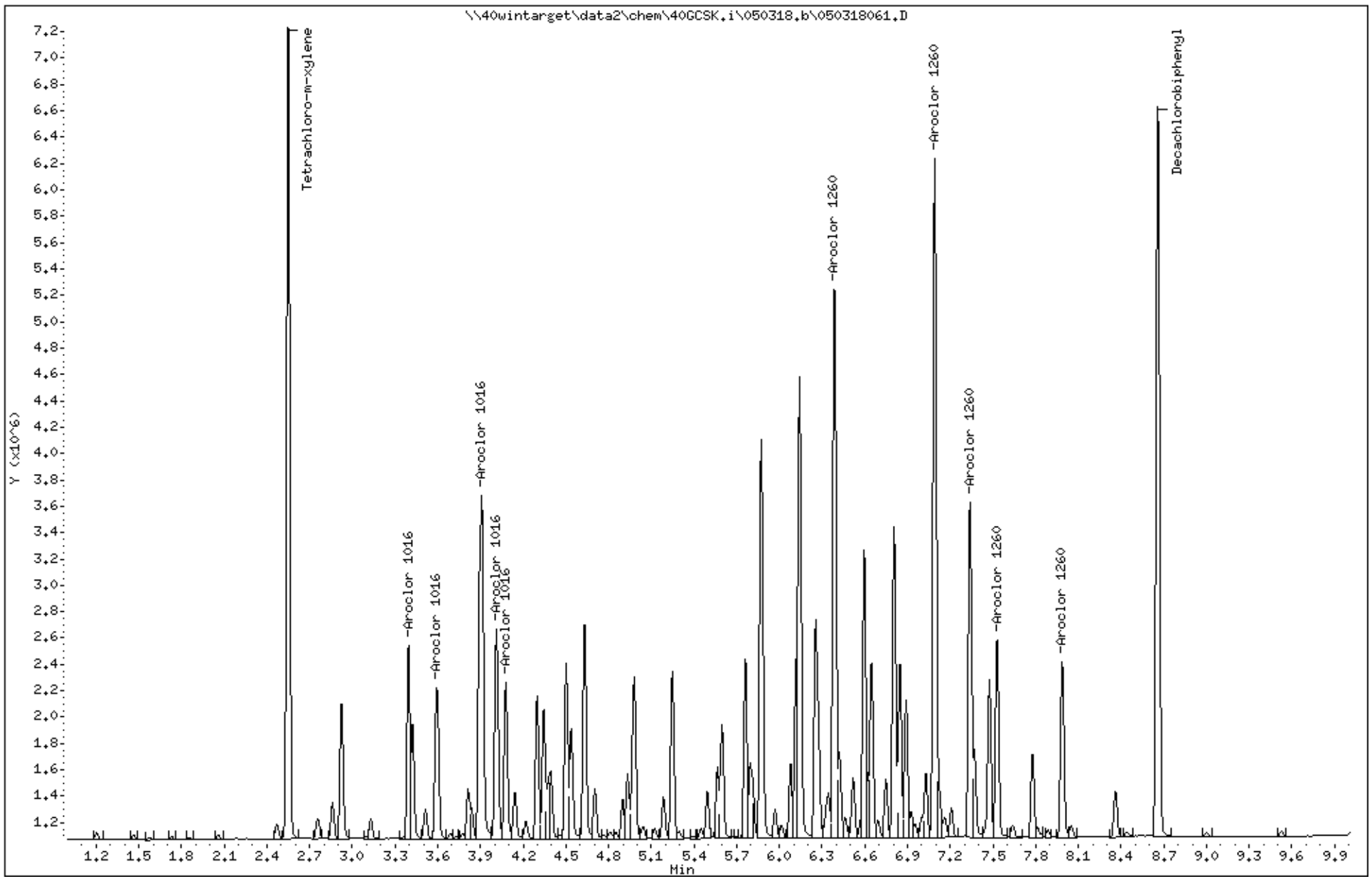
M - Compound response manually integrated.

Review Codes Legend

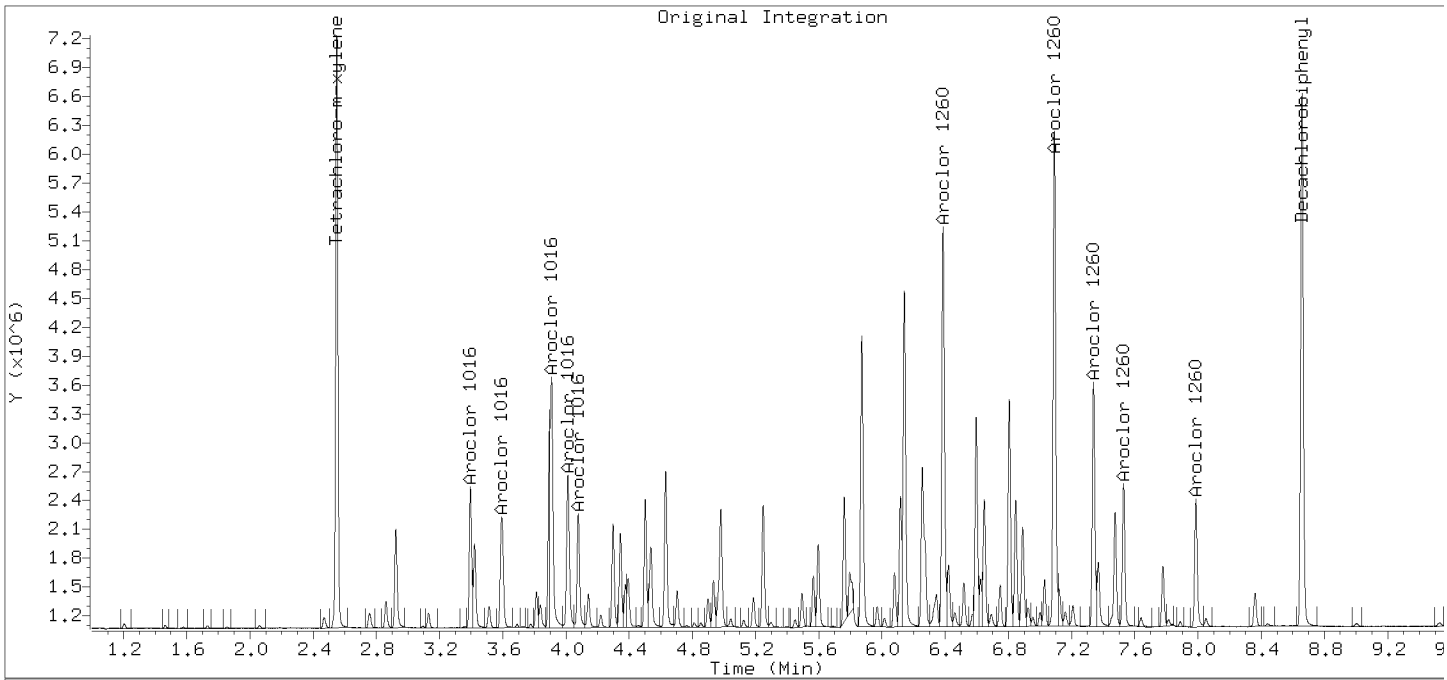
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

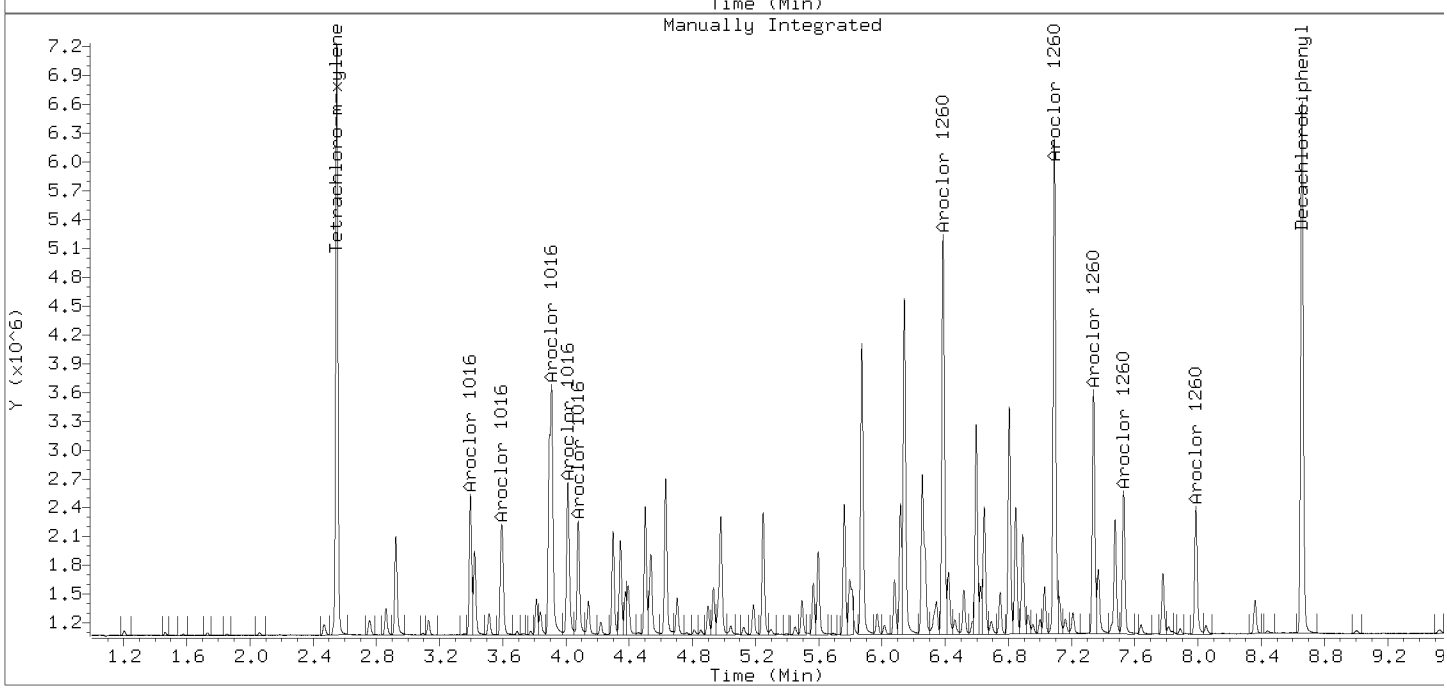
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Date : 03-MAY-2018 17:53
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

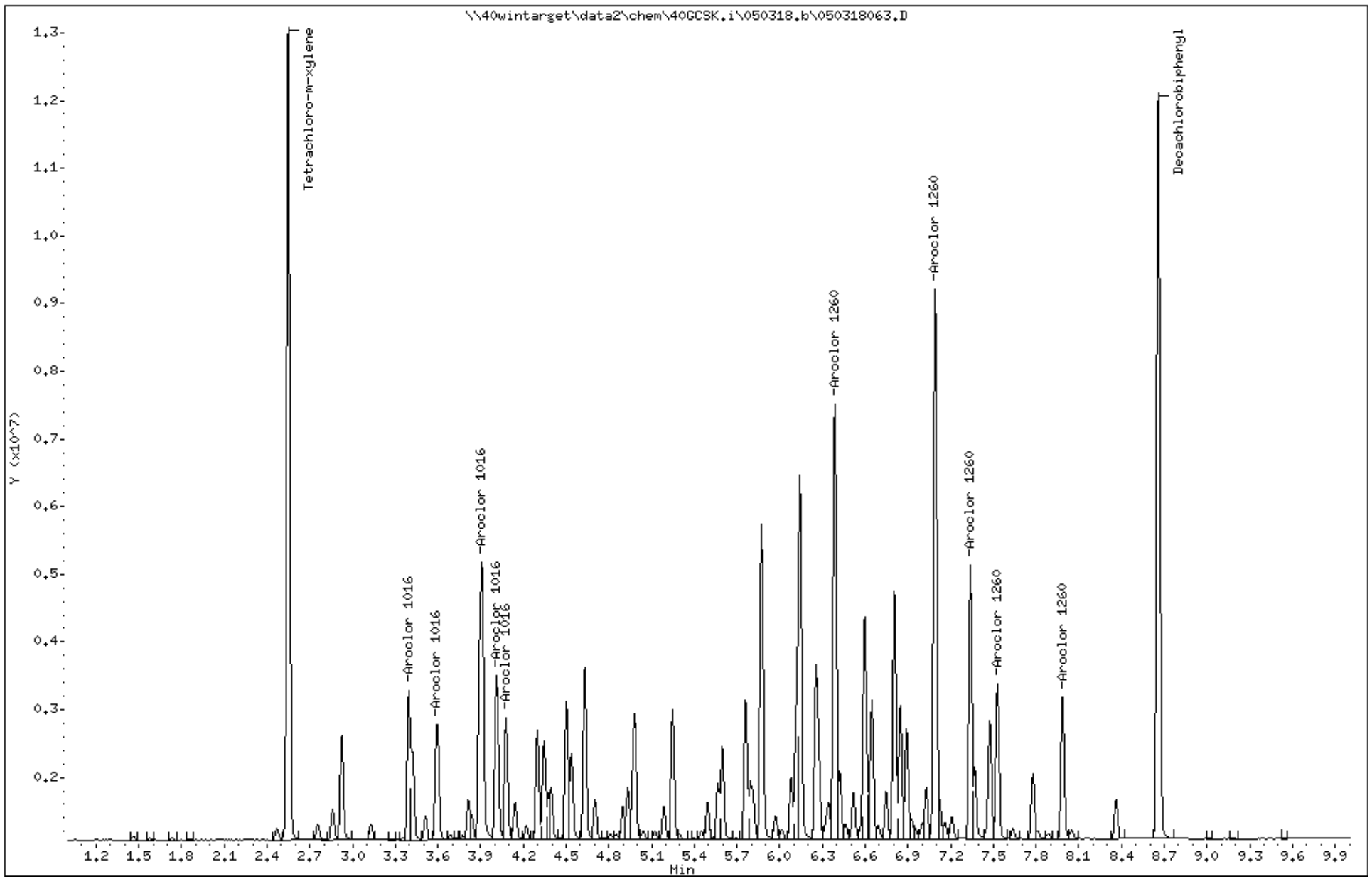
Instrument: 40GCSK.i

Sample Info: 1660-CAL4A, 185560:1

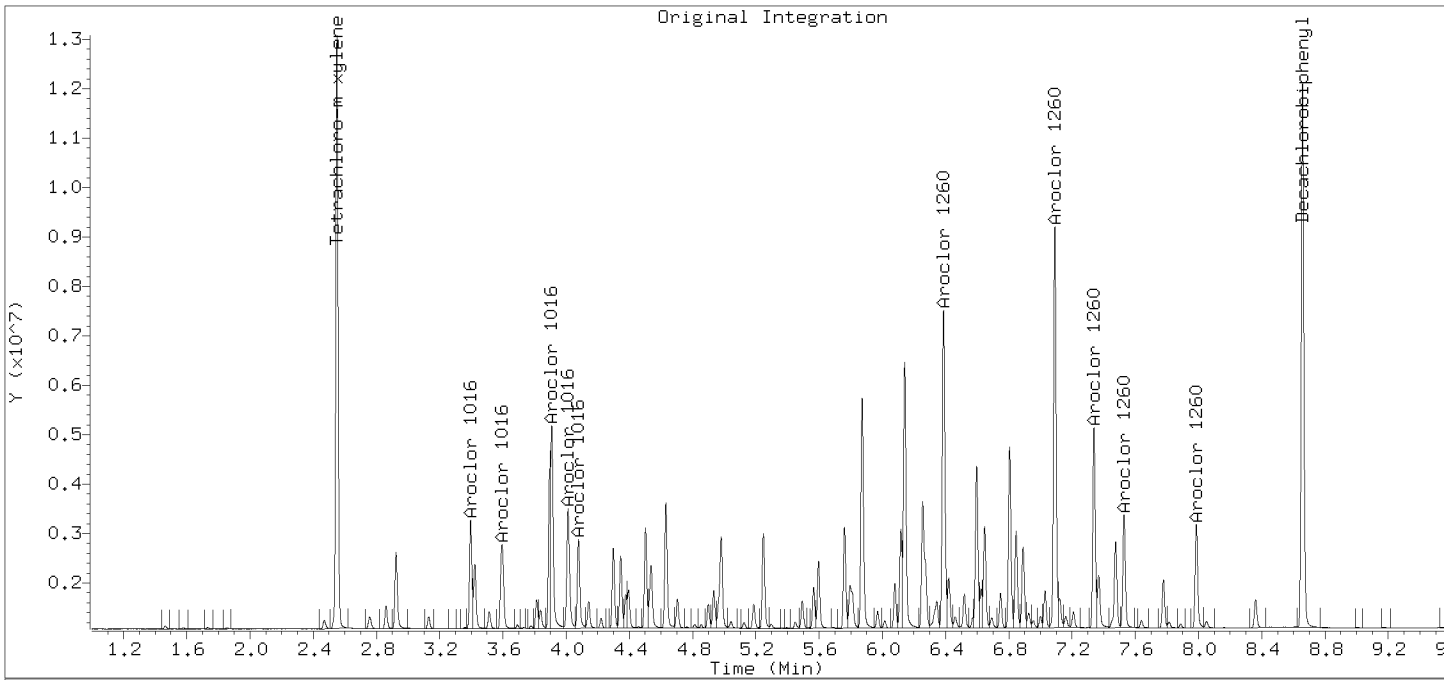
Operator: BLM

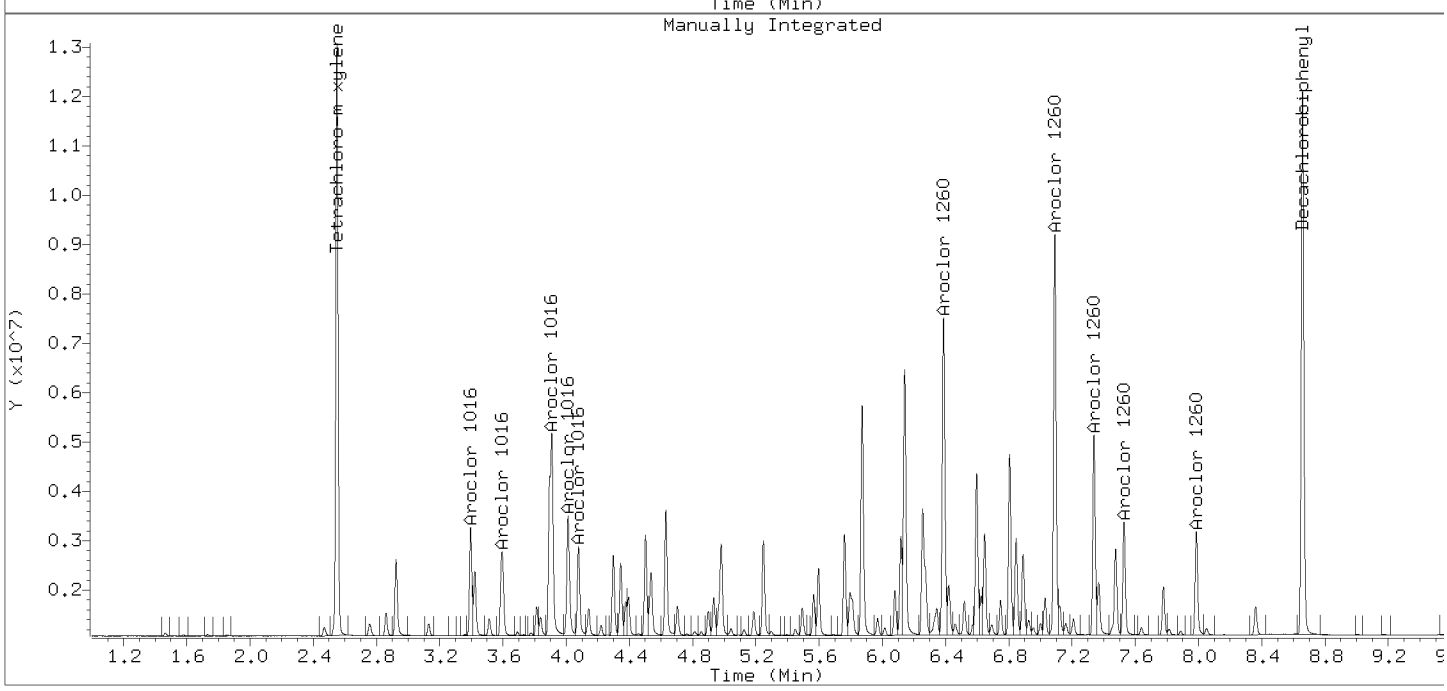
Column phase: ZB-1ms

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

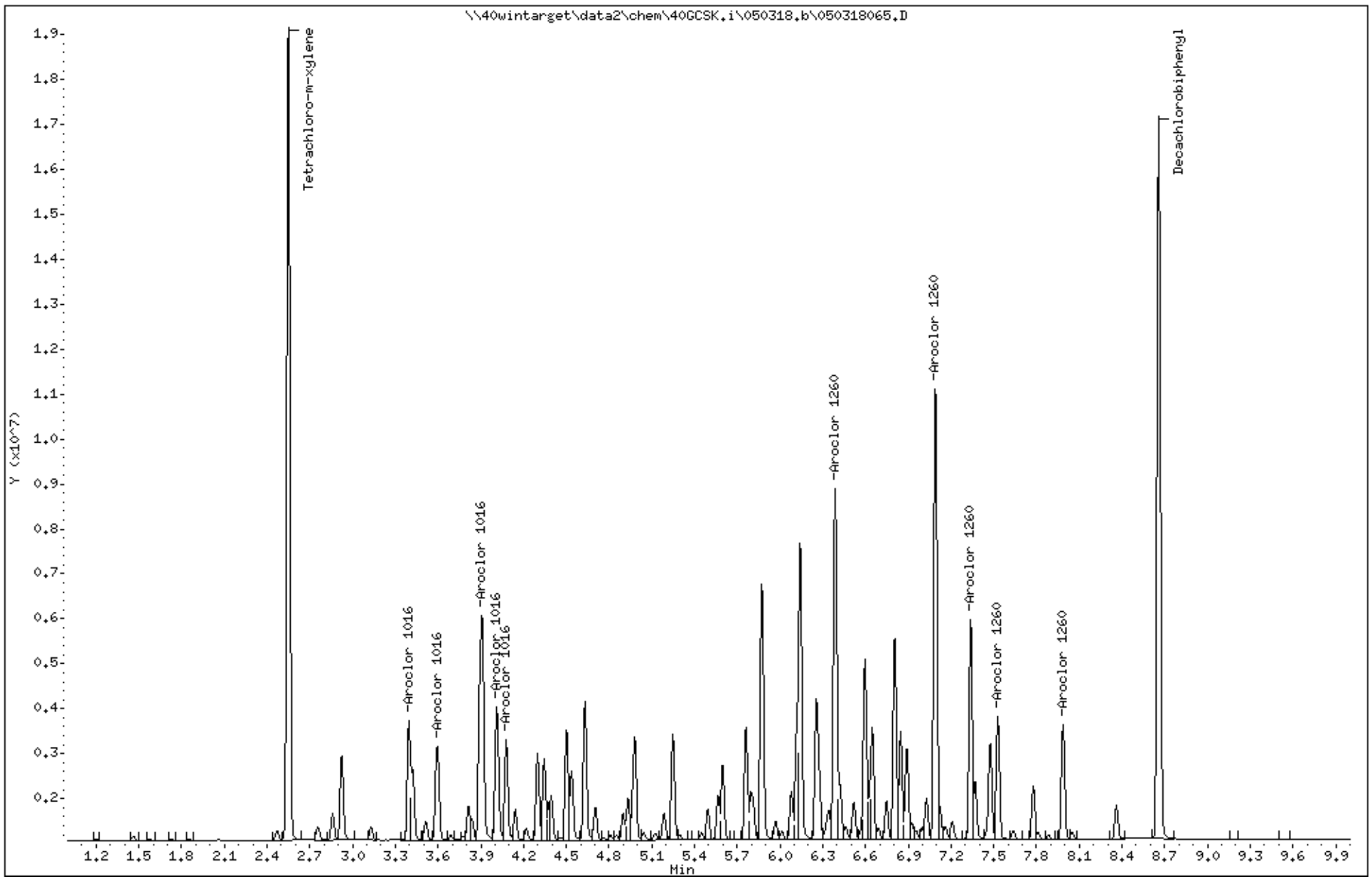
Instrument: 40GCSK.i

Sample Info: 1660-CAL5A, 185561:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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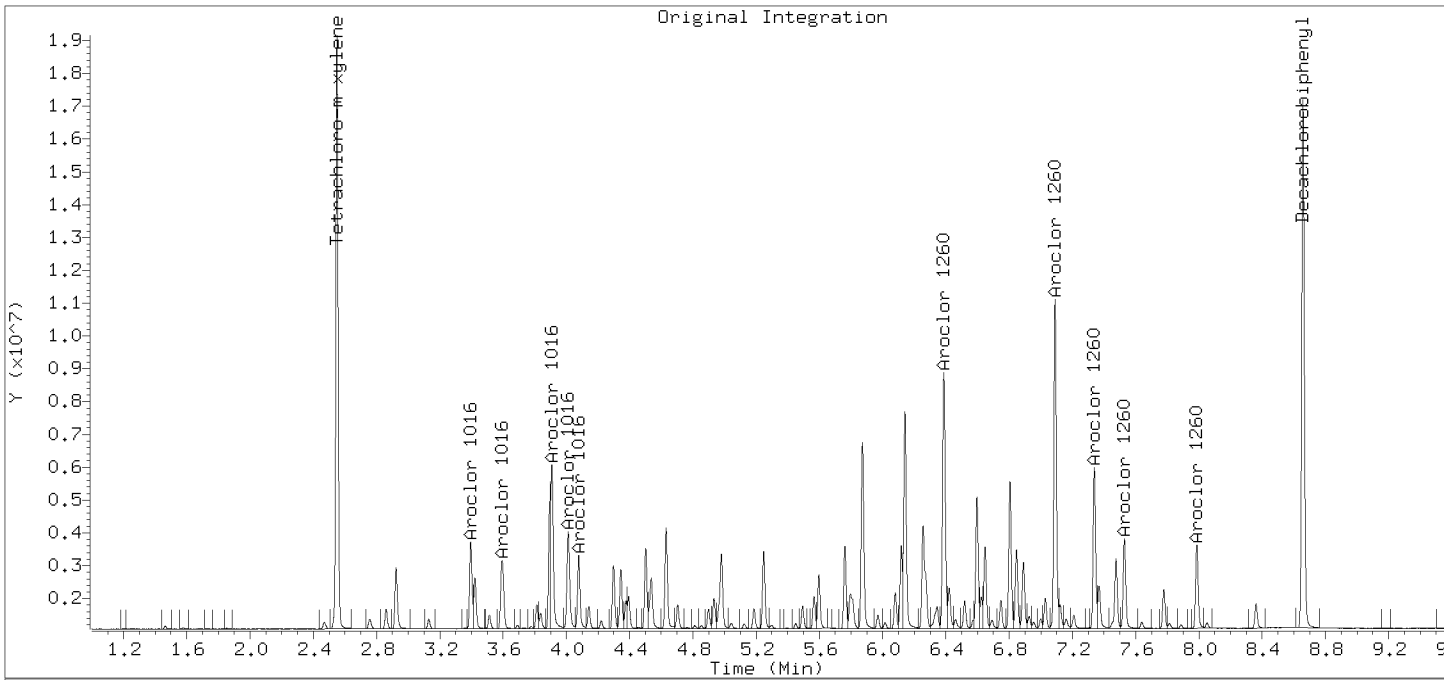
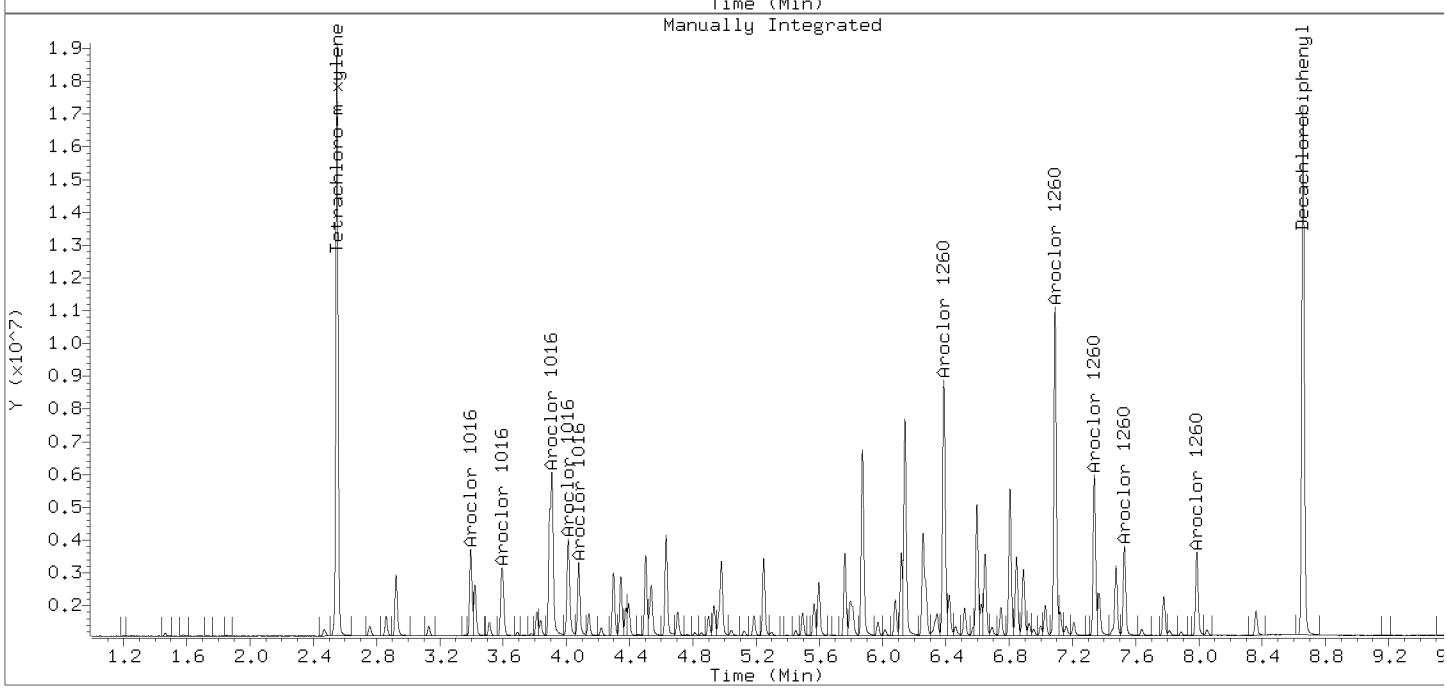
Injection Date: 03-MAY-2018 18:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL5A





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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.: 40157948

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.

10983579CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/10/2018 Time: 07:42

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 051018.B\051018004.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40157948

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	956324.000	-3.4406
Aroclor 1221	2	Averaged	2.472	2.437	2.505	527183.800	510306.000	-3.2015
Aroclor 1221	3	Averaged	2.758	2.724	2.792	1386989.95	1343678.00	-3.1227
Aroclor 1221	4	Averaged	2.86	2.826	2.894	1103515.20	1055806.00	-4.3234
Aroclor 1221	5	Averaged	2.923	2.889	2.957	3343089.15	3286744.00	-1.6854
Decachlorobiphenyl (S)		Averaged	8.658	8.623	8.691	133190612.	118477260.	-11.0468
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	112797940.	-6.3461

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

SAMPLE NO.

10983583CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/10/2018 Time: 09:46

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 051018.B\051018010.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40157948

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.923	2.888	2.956	2694578.00	2590962.00	-3.8454
Aroclor 1232	2	Averaged	3.593	3.558	3.626	1418110.00	1348562.00	-4.9043
Aroclor 1232	3	Averaged	3.908	3.874	3.942	4136332.00	3983648.00	-3.6913
Aroclor 1232	4	Averaged	4.012	3.977	4.045	1788600.00	1702432.00	-4.8176
Aroclor 1232	5	Averaged	4.078	4.044	4.112	1171600.00	1127620.00	-3.7538
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	116643940.	-12.4233
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	110089900.	-8.5946

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.

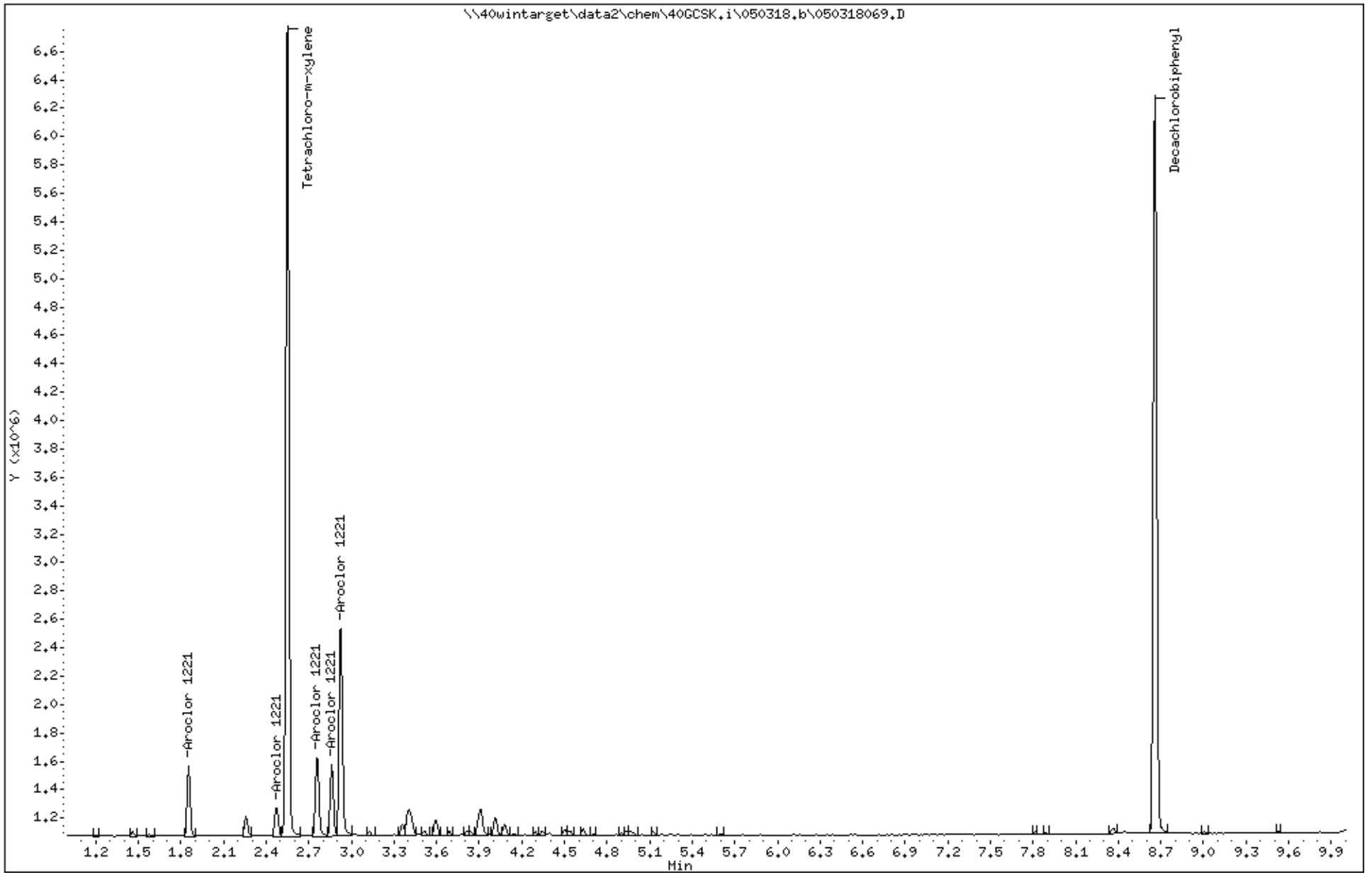
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Date : 03-MAY-2018 18:58
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSK.i

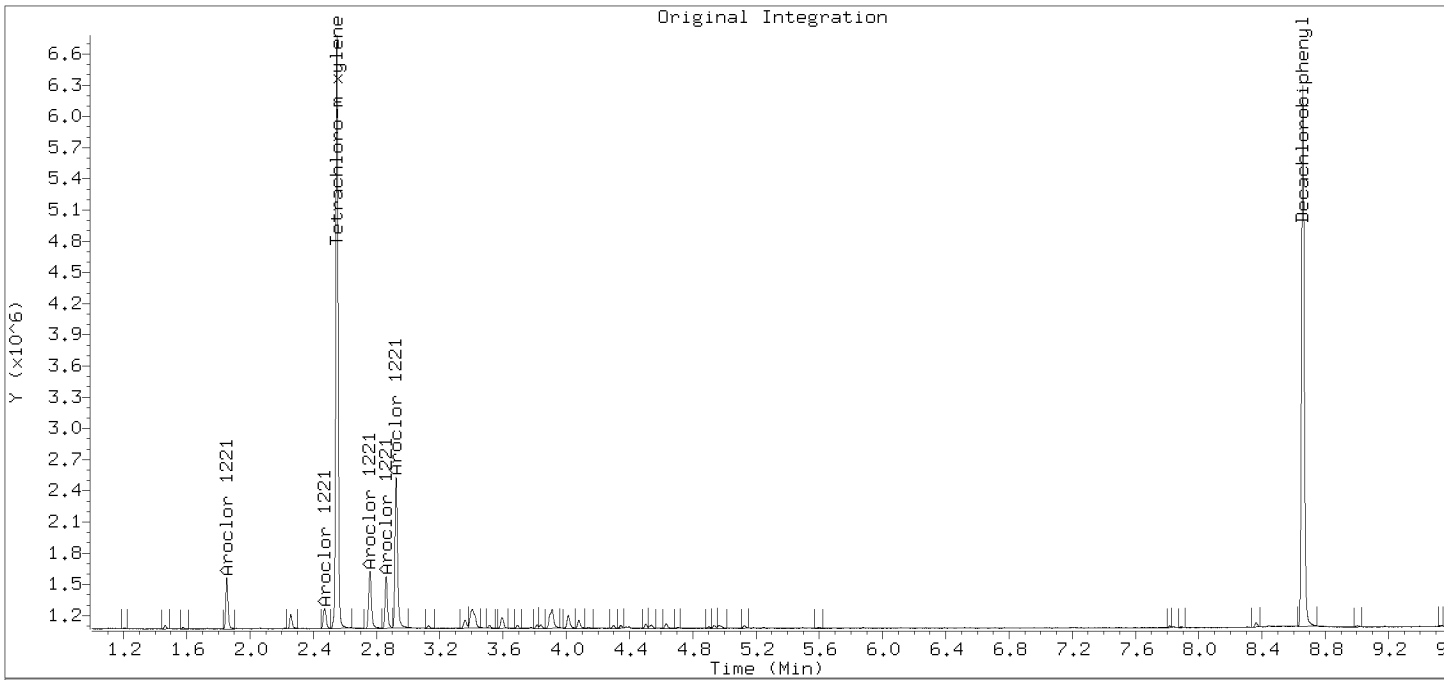
Operator: BLM

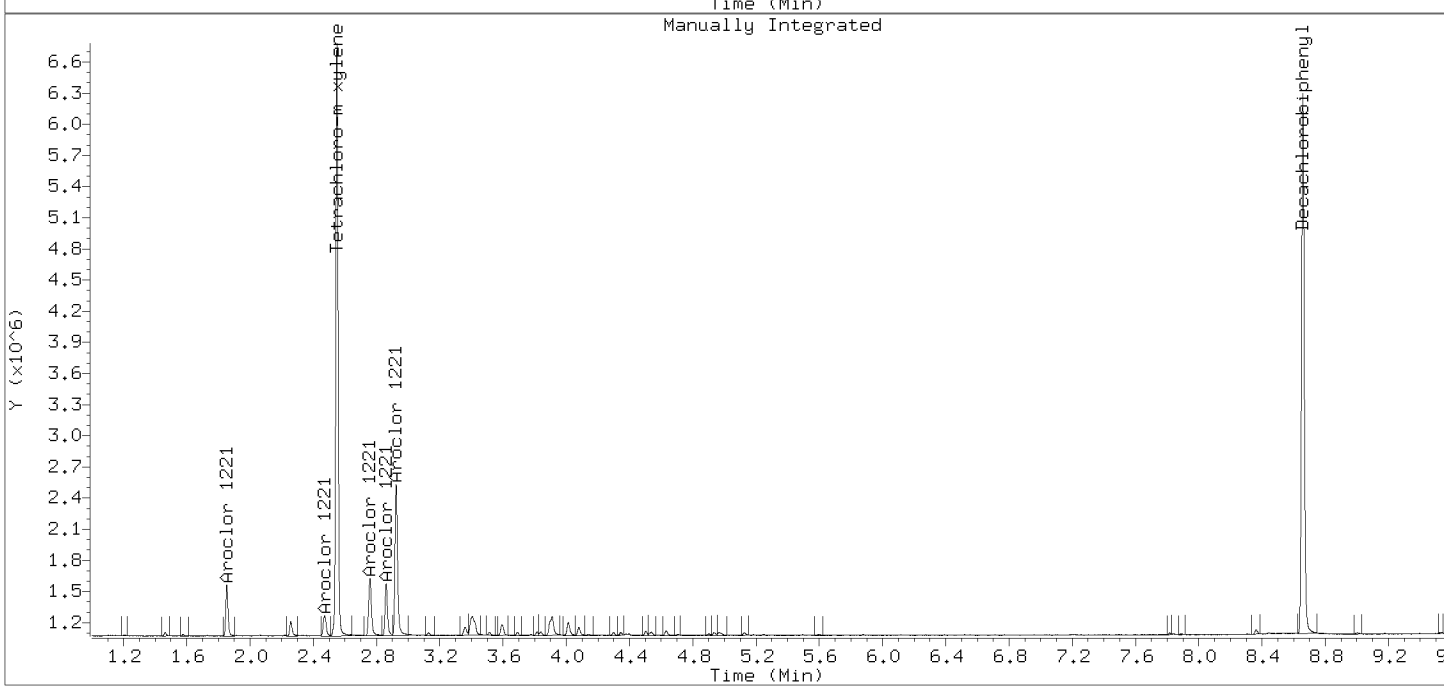
Column phase: ZB-1ms

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.

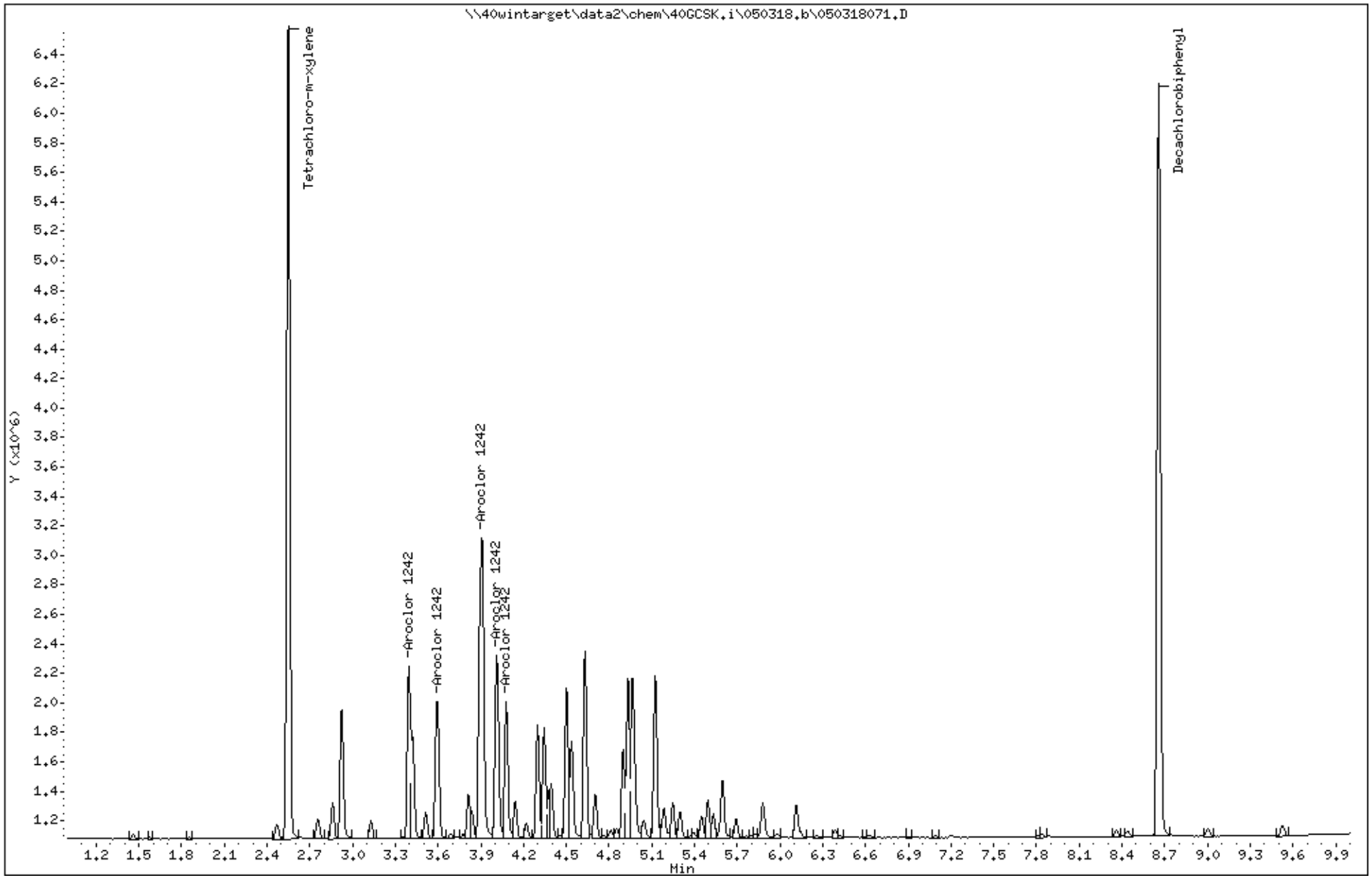
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Date : 03-MAY-2018 19:14
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSK.i

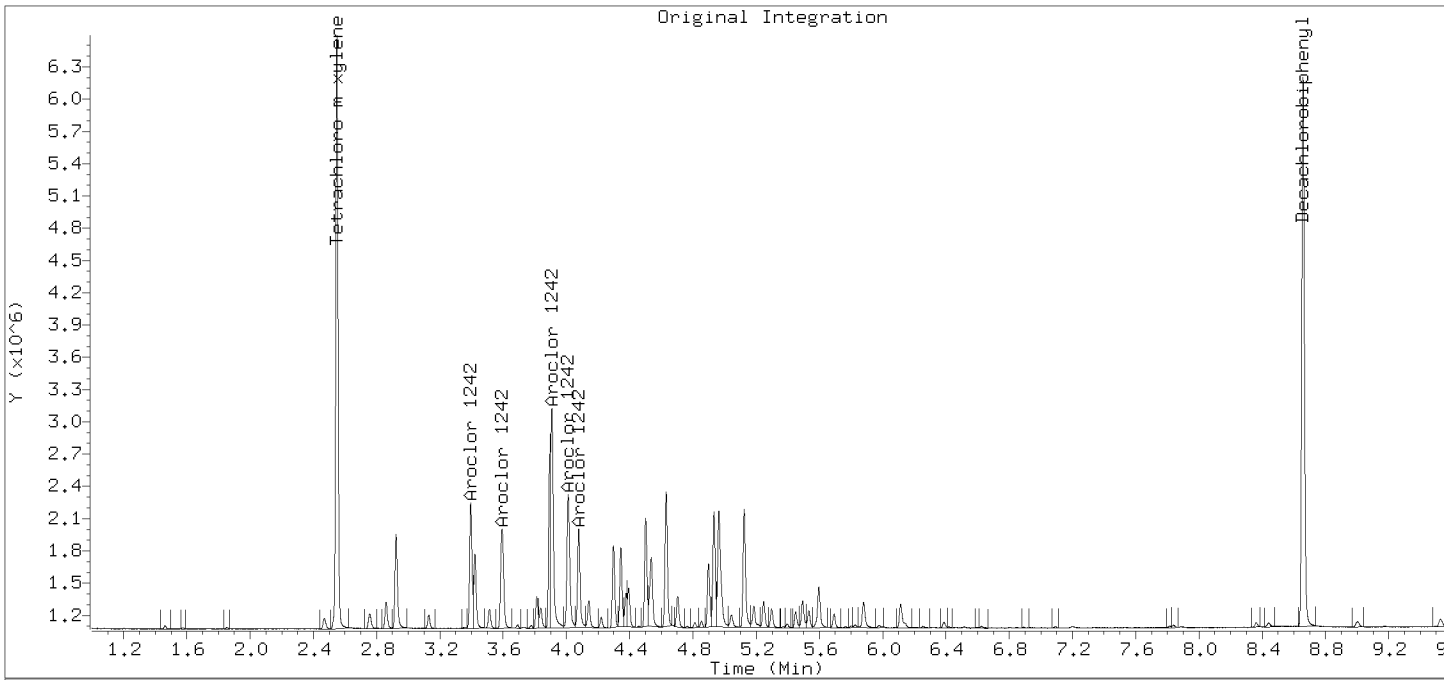
Operator: BLM

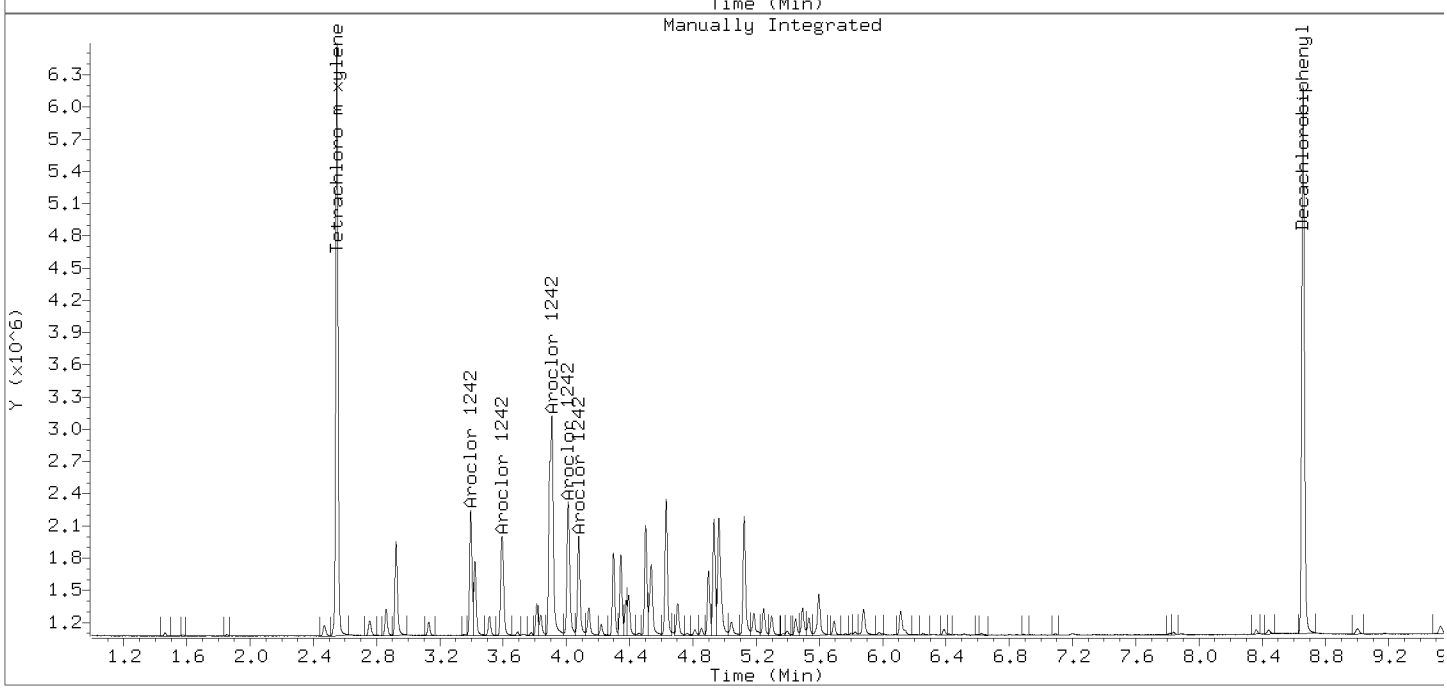
Column phase: ZB-1ms

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

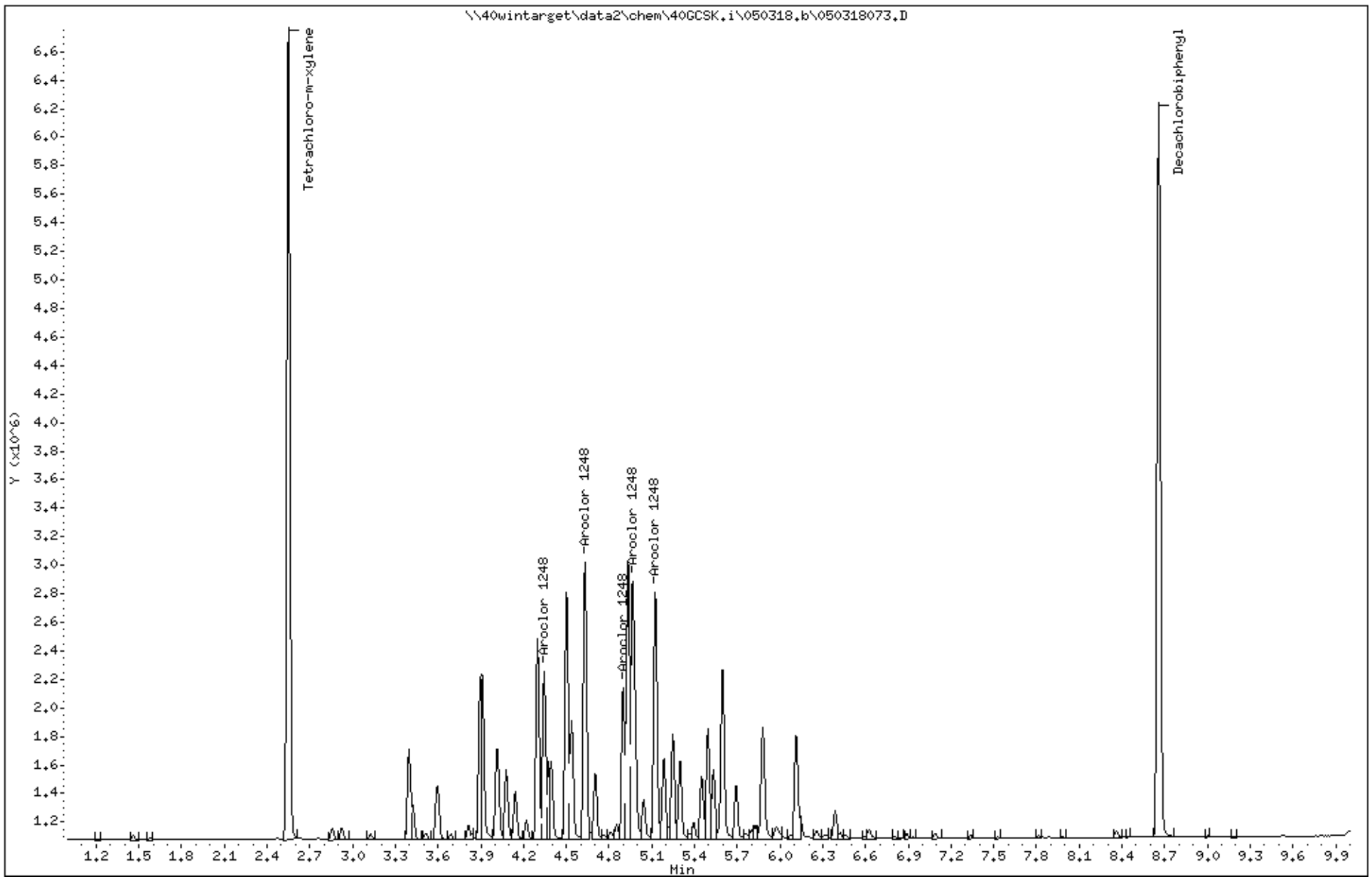
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

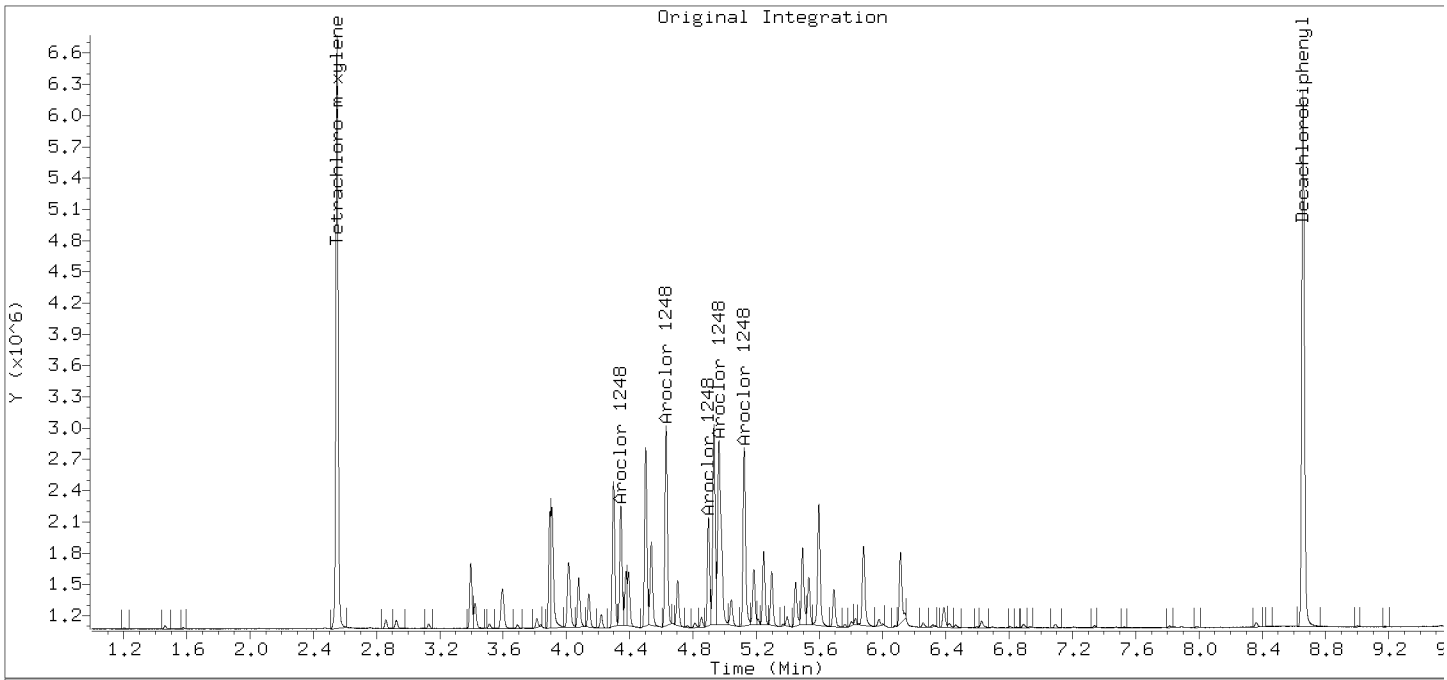
Instrument: 40GCSK.i

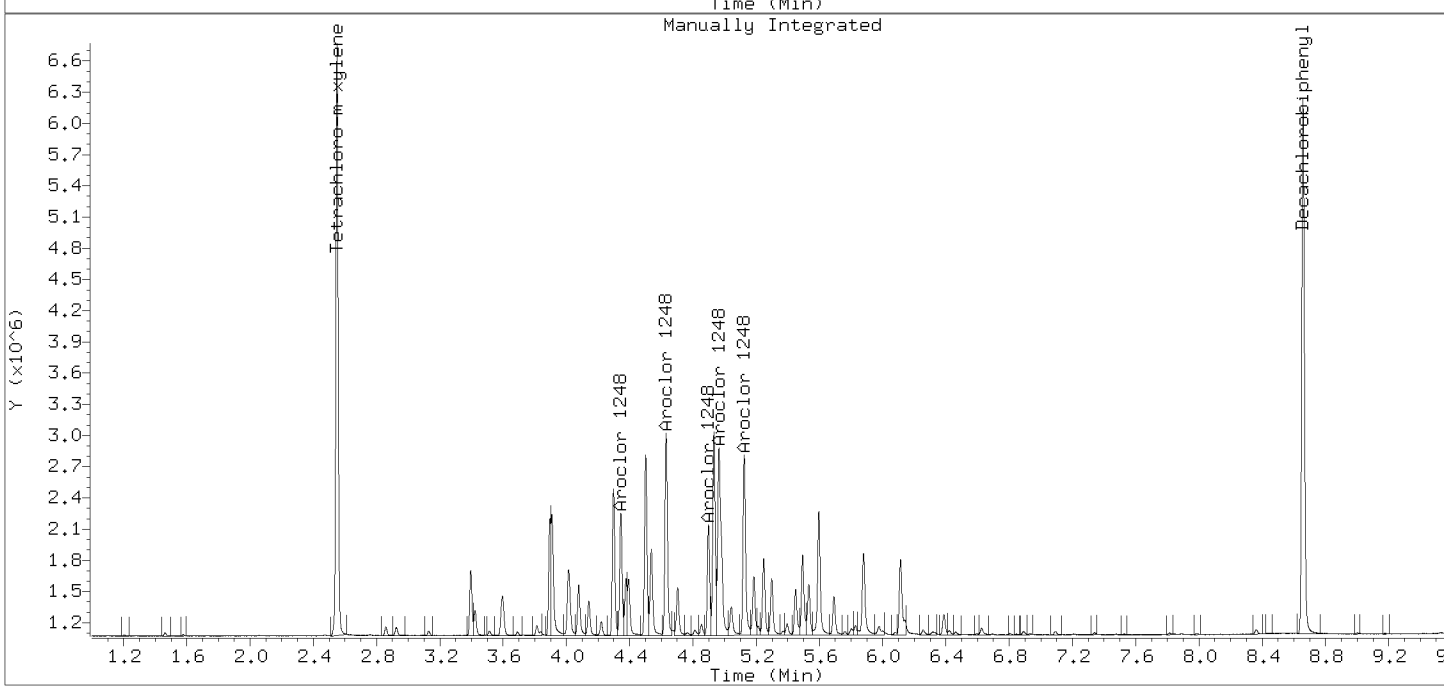
Operator: BLM

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

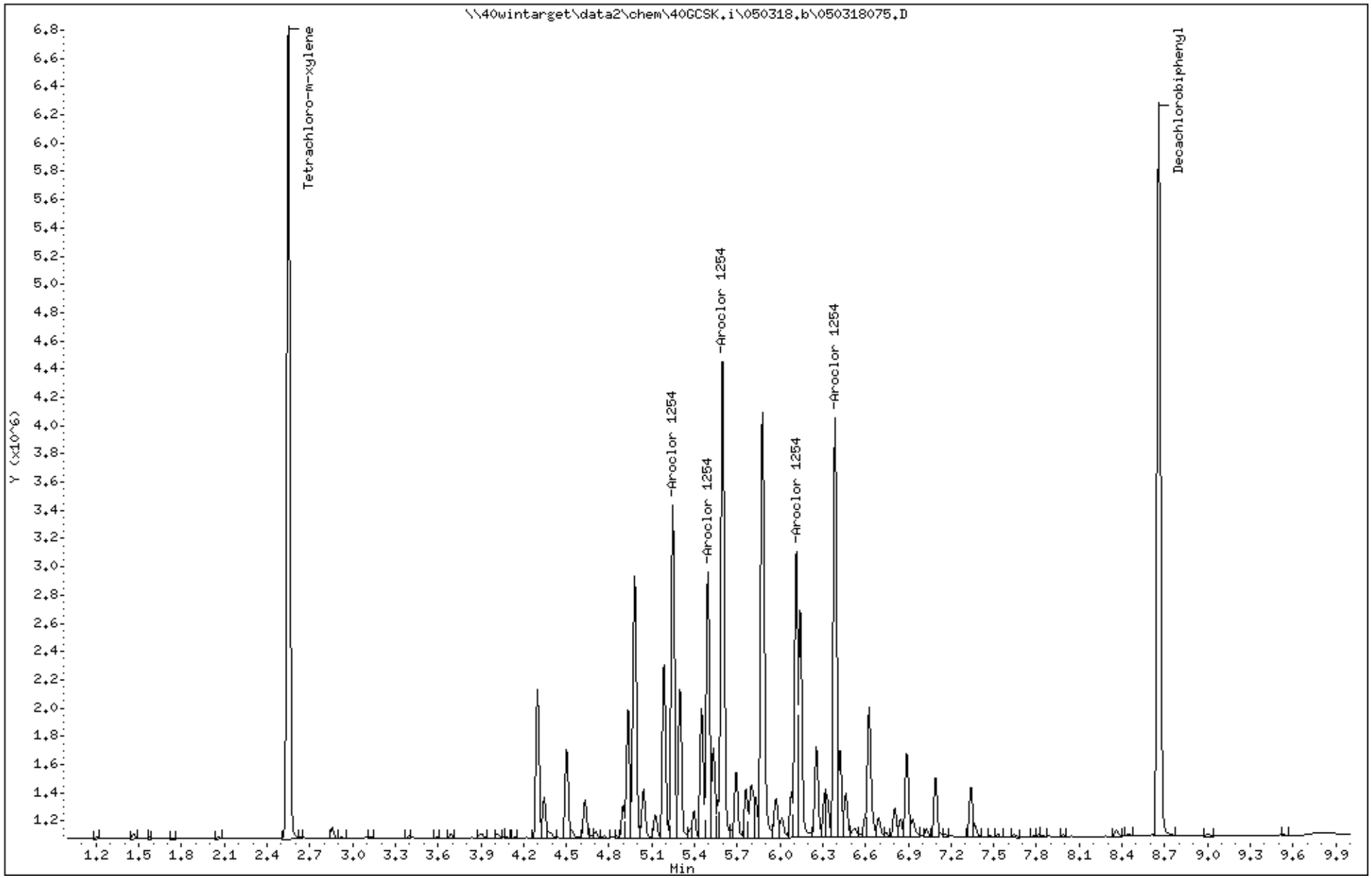
Instrument: 40GCSK.i

Sample Info: 1254-ICV, 185564:1

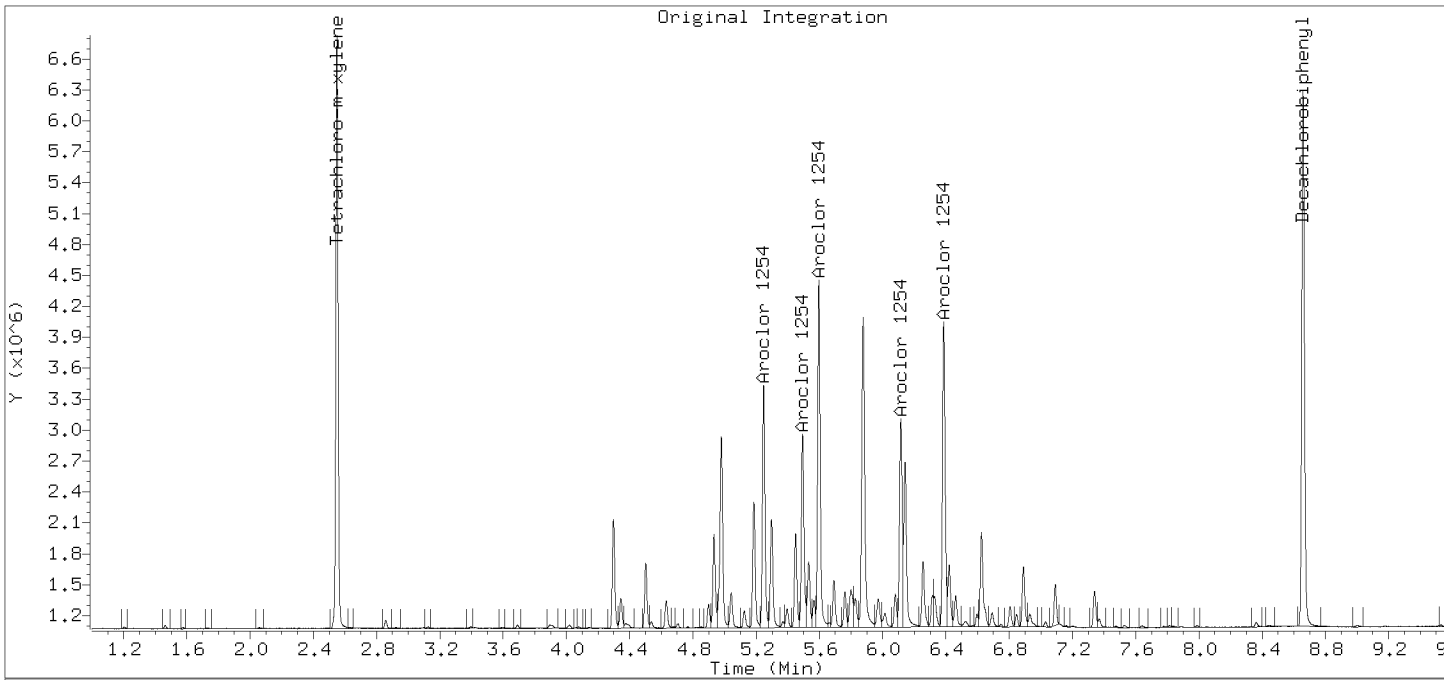
Operator: BLM

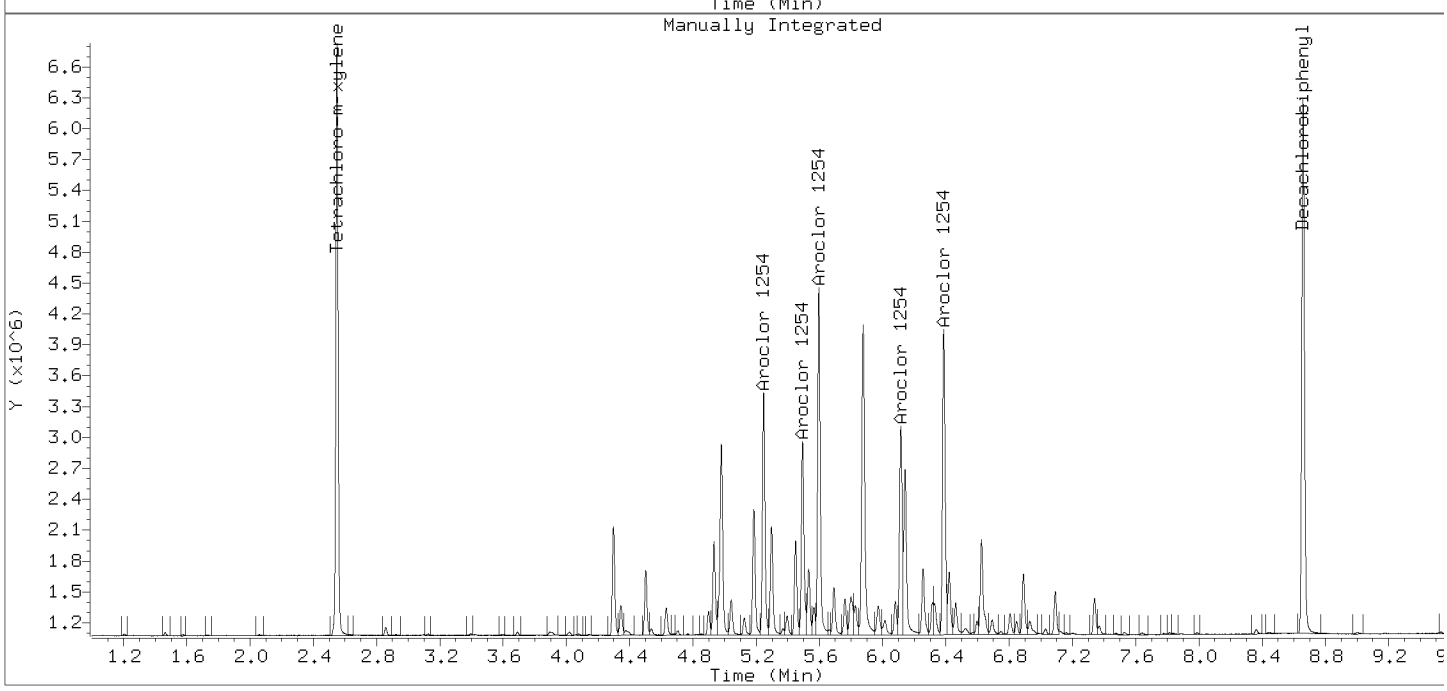
Column phase: ZB-1ms

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

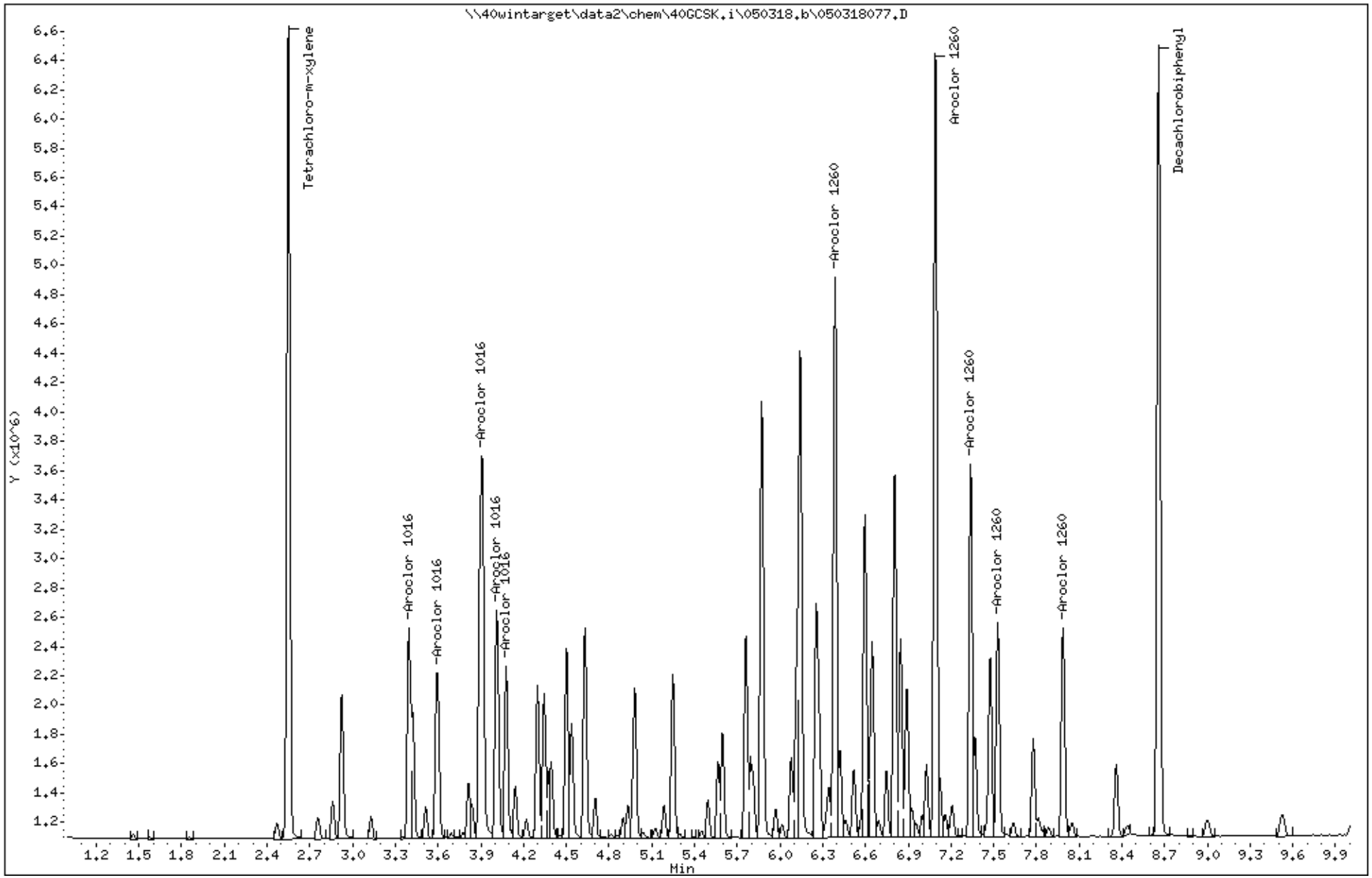
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Date : 03-MAY-2018 20:03
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

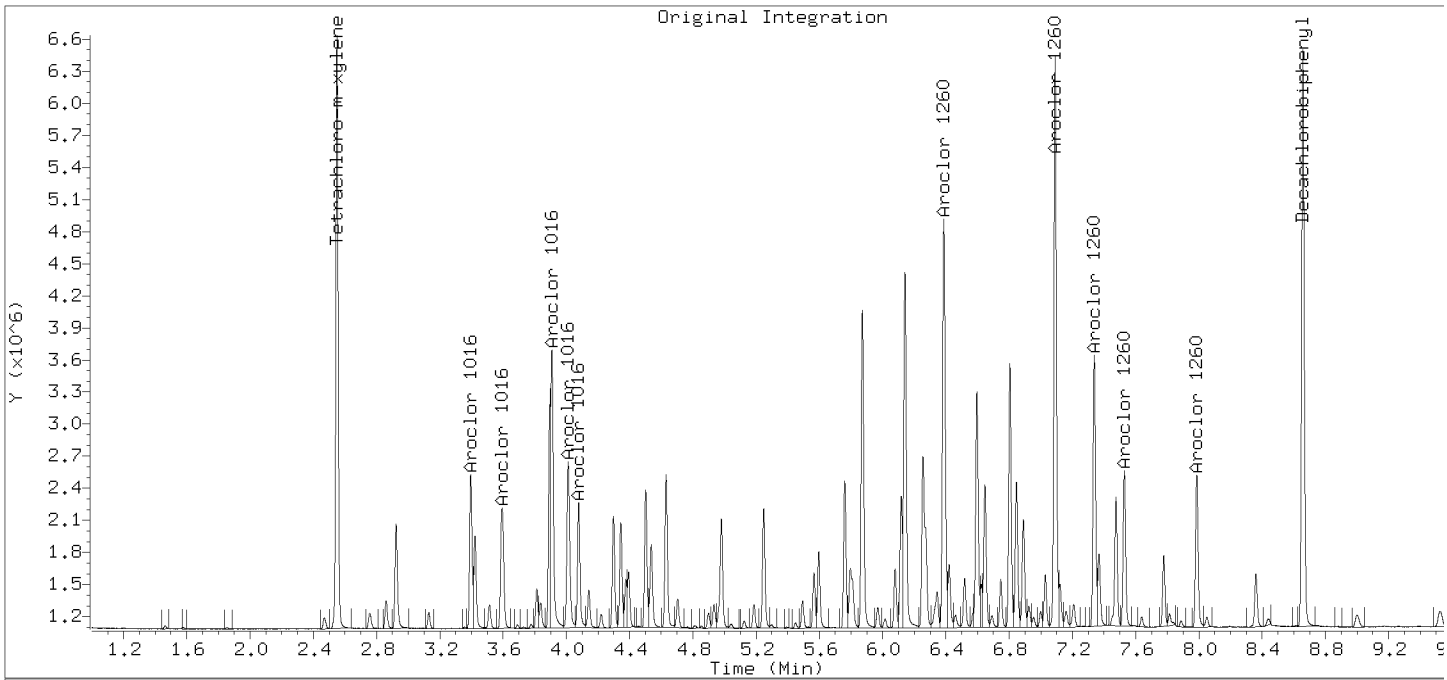
Instrument: 40GCSK.i

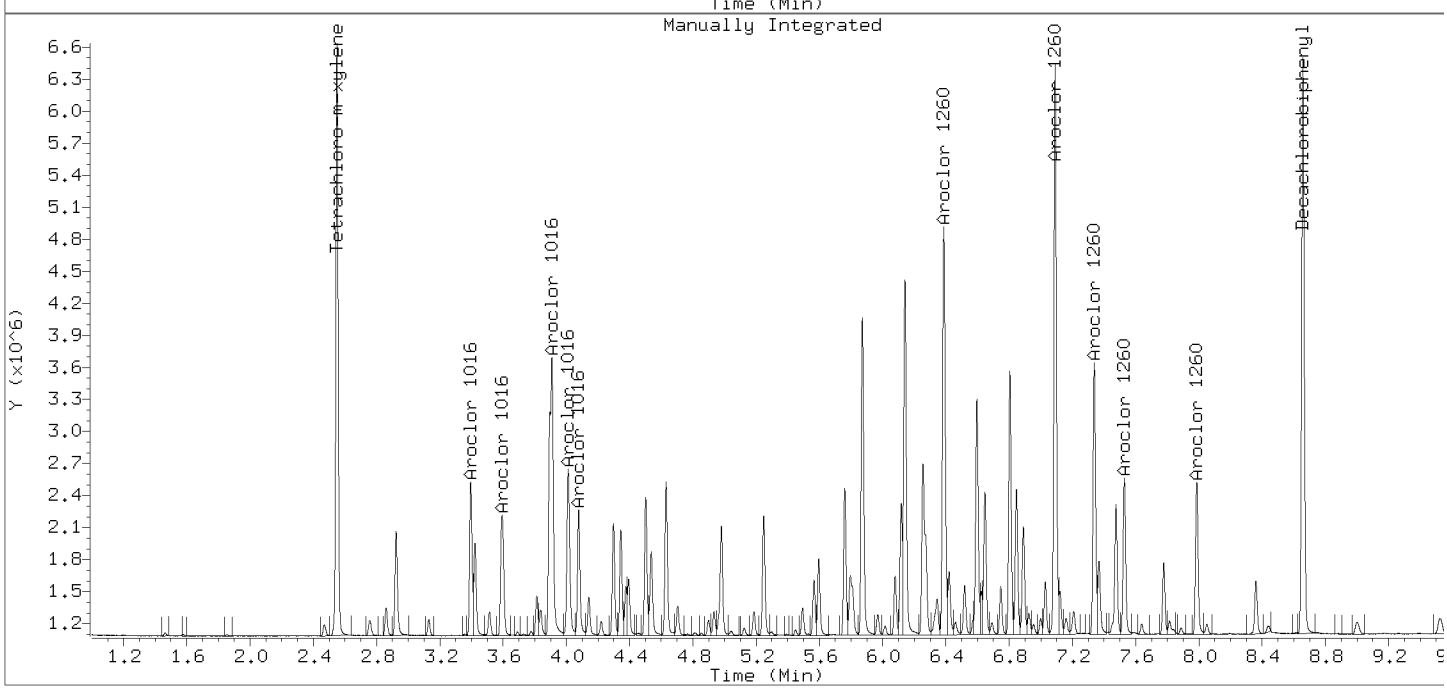
Operator: BLM

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.

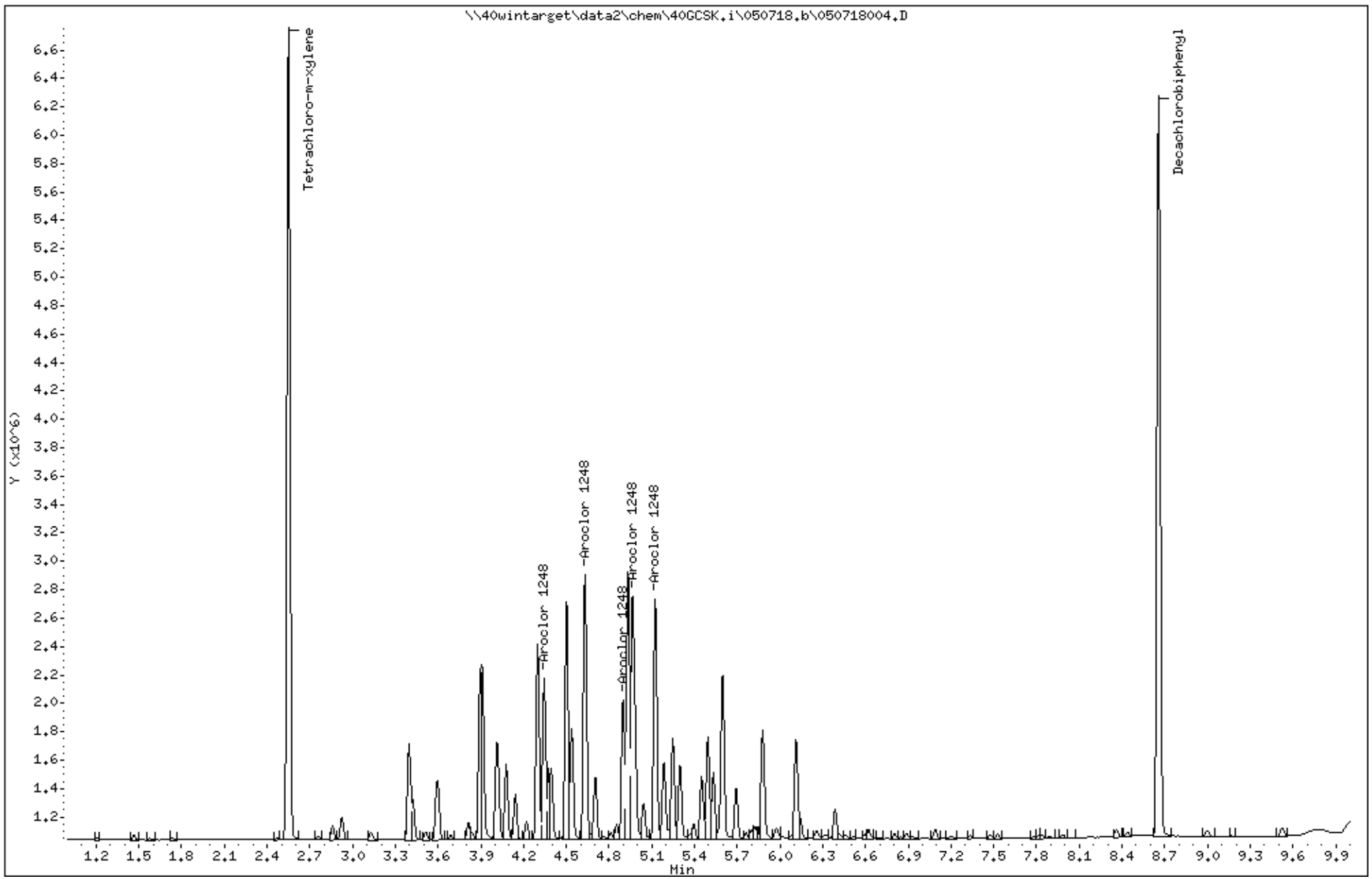
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Date : 07-MAY-2018 14:06
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

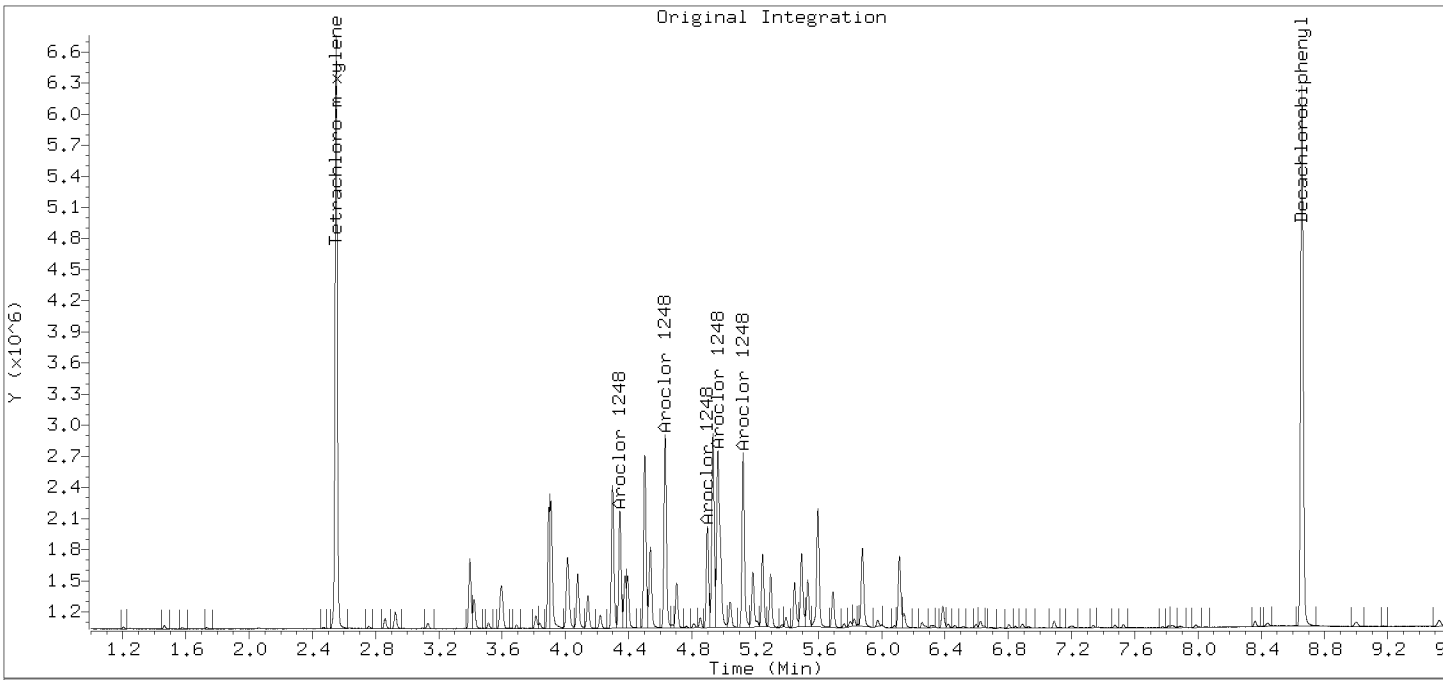
Operator: BLM

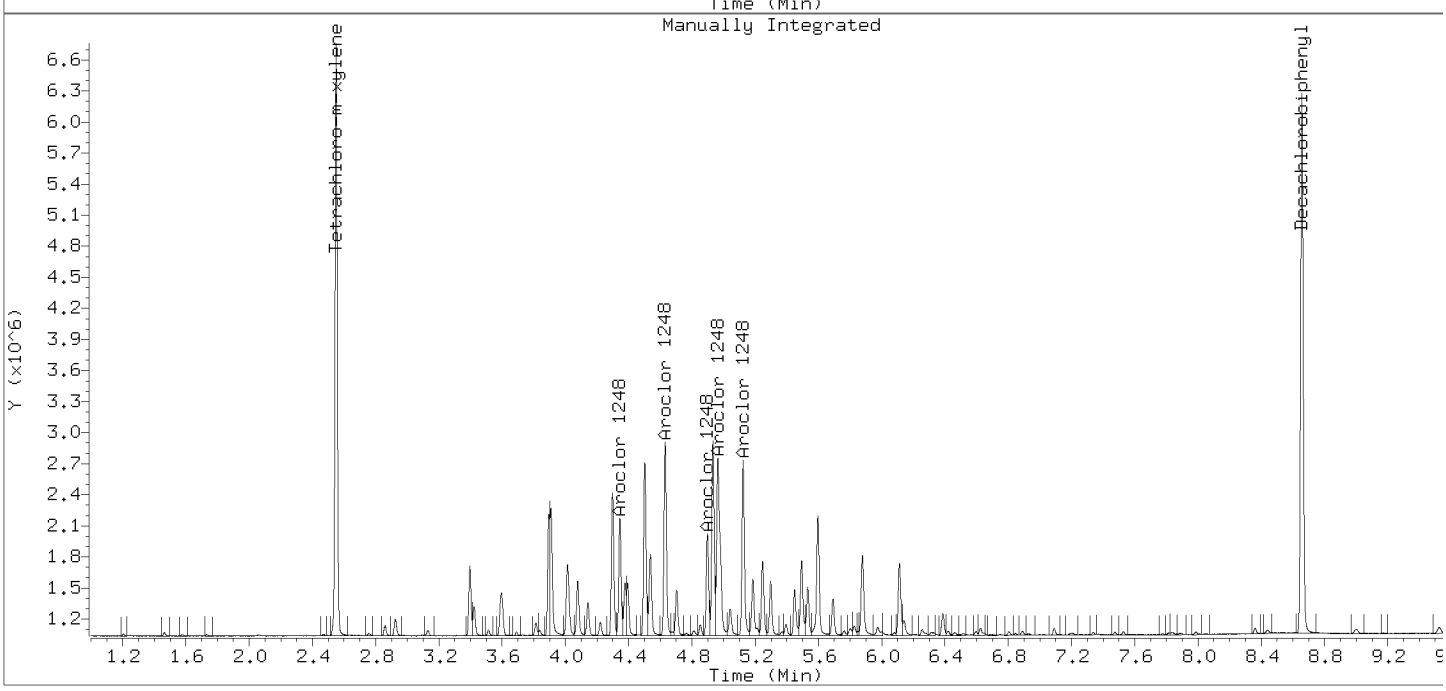
Column phase: ZB-1ms

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

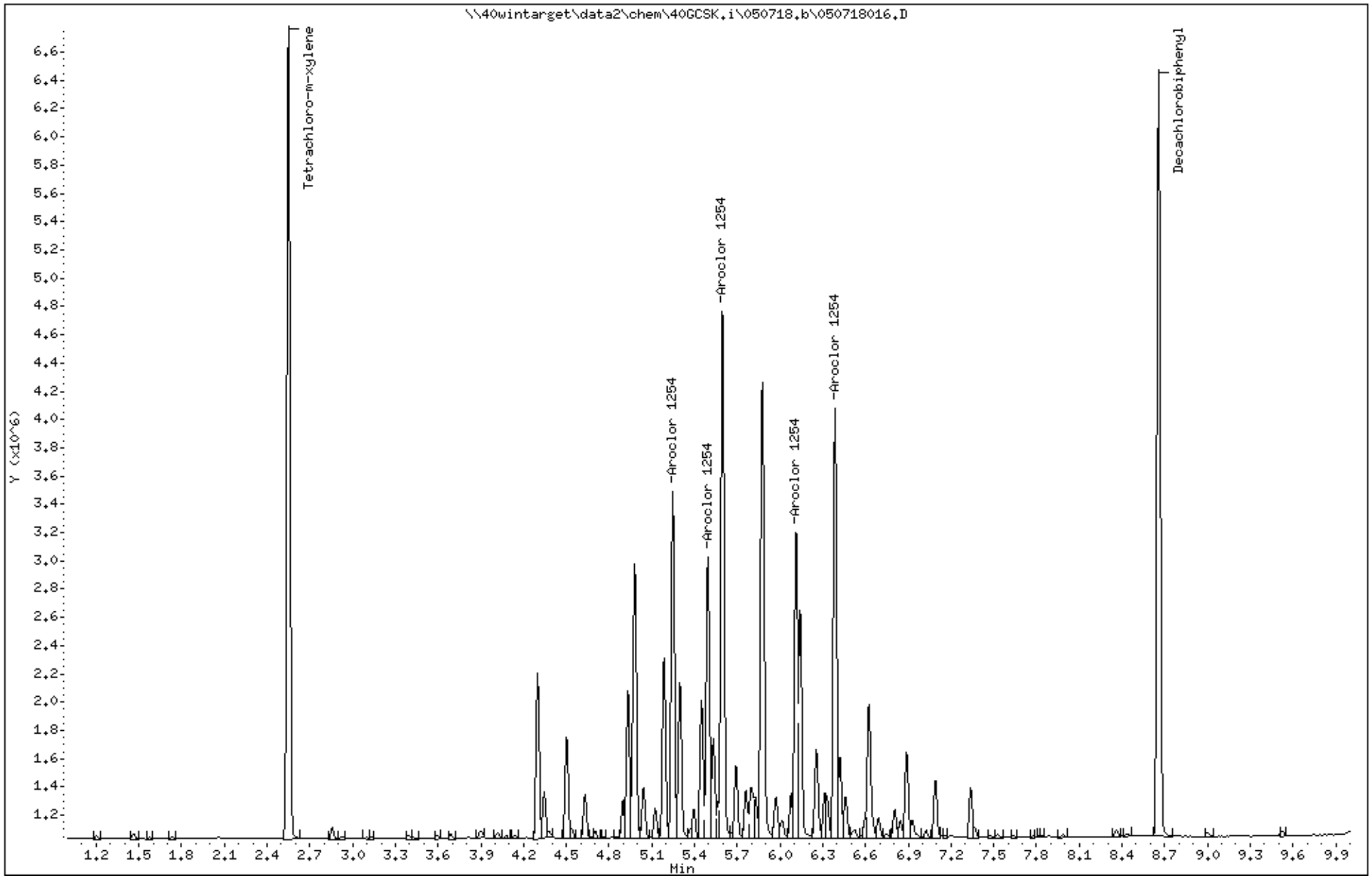
Instrument: 40GCSK.i

Sample Info: 1254-CCV, 185554:1

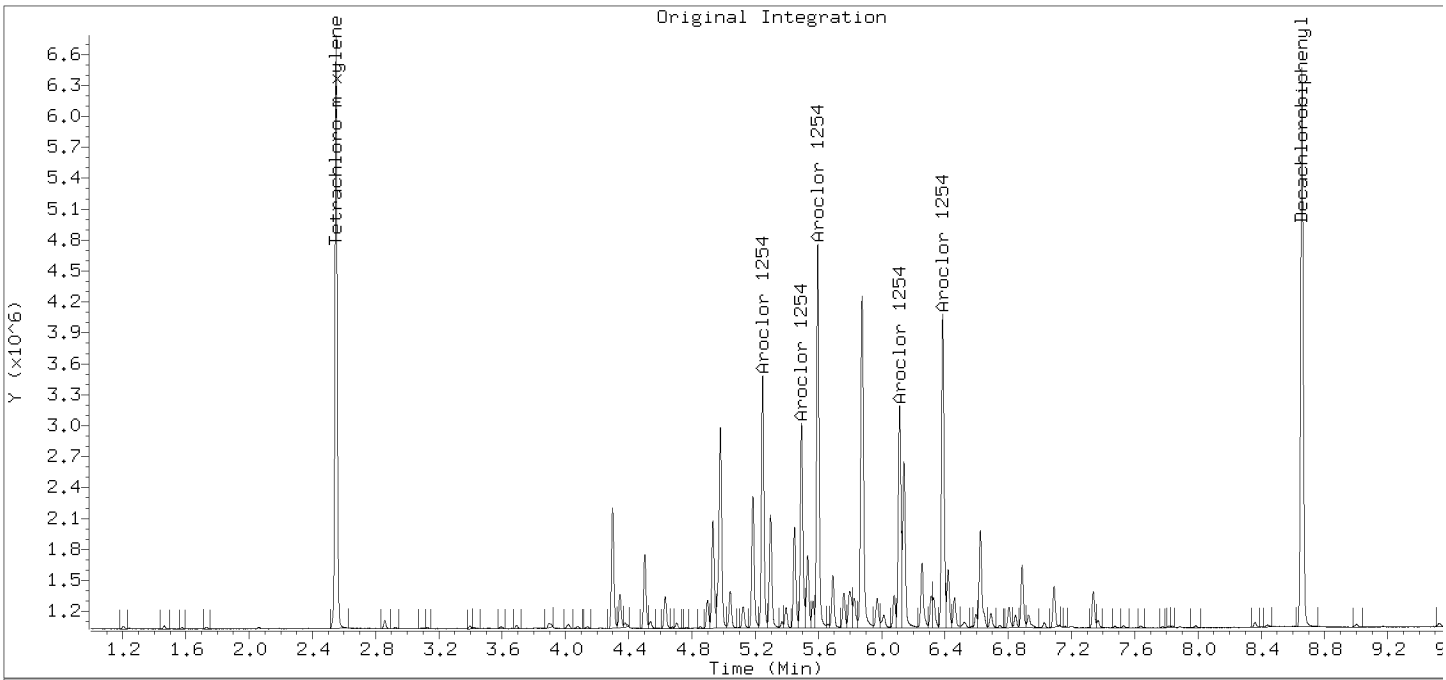
Operator: BLM

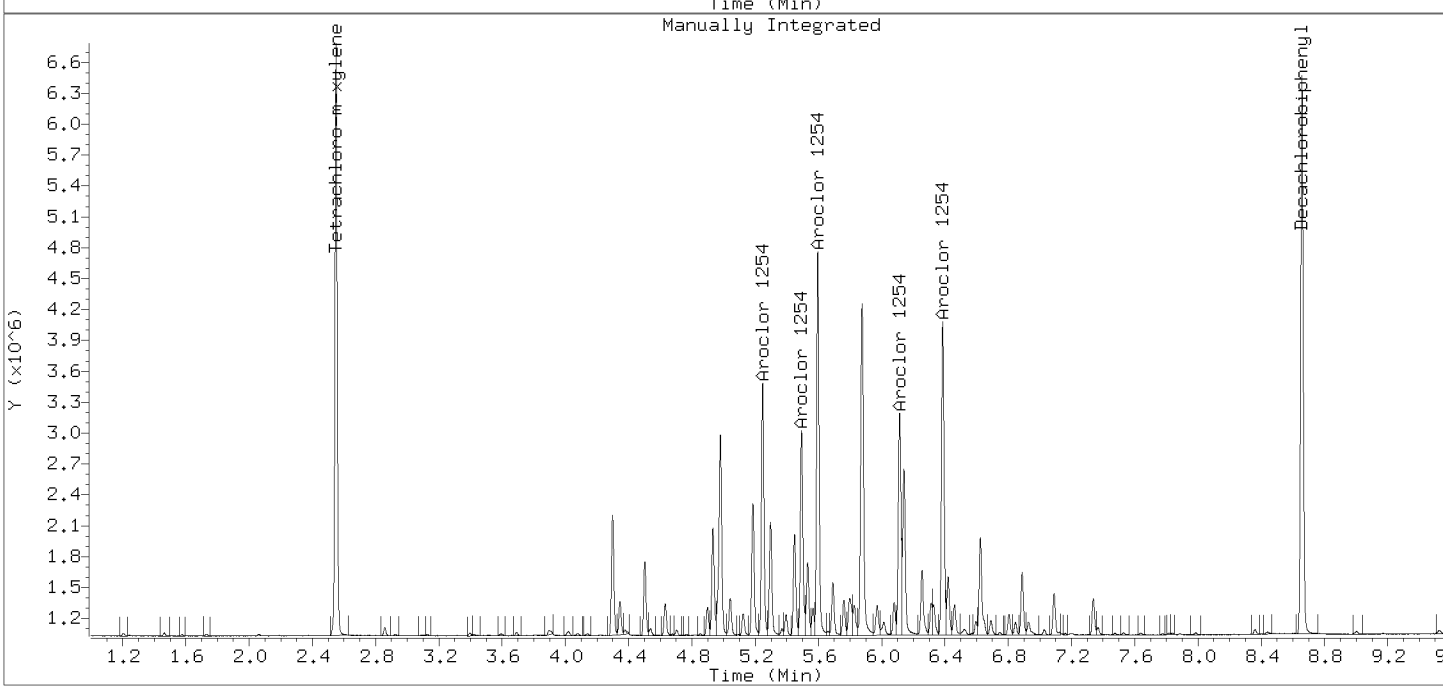
Column phase: ZB-1ms

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	

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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

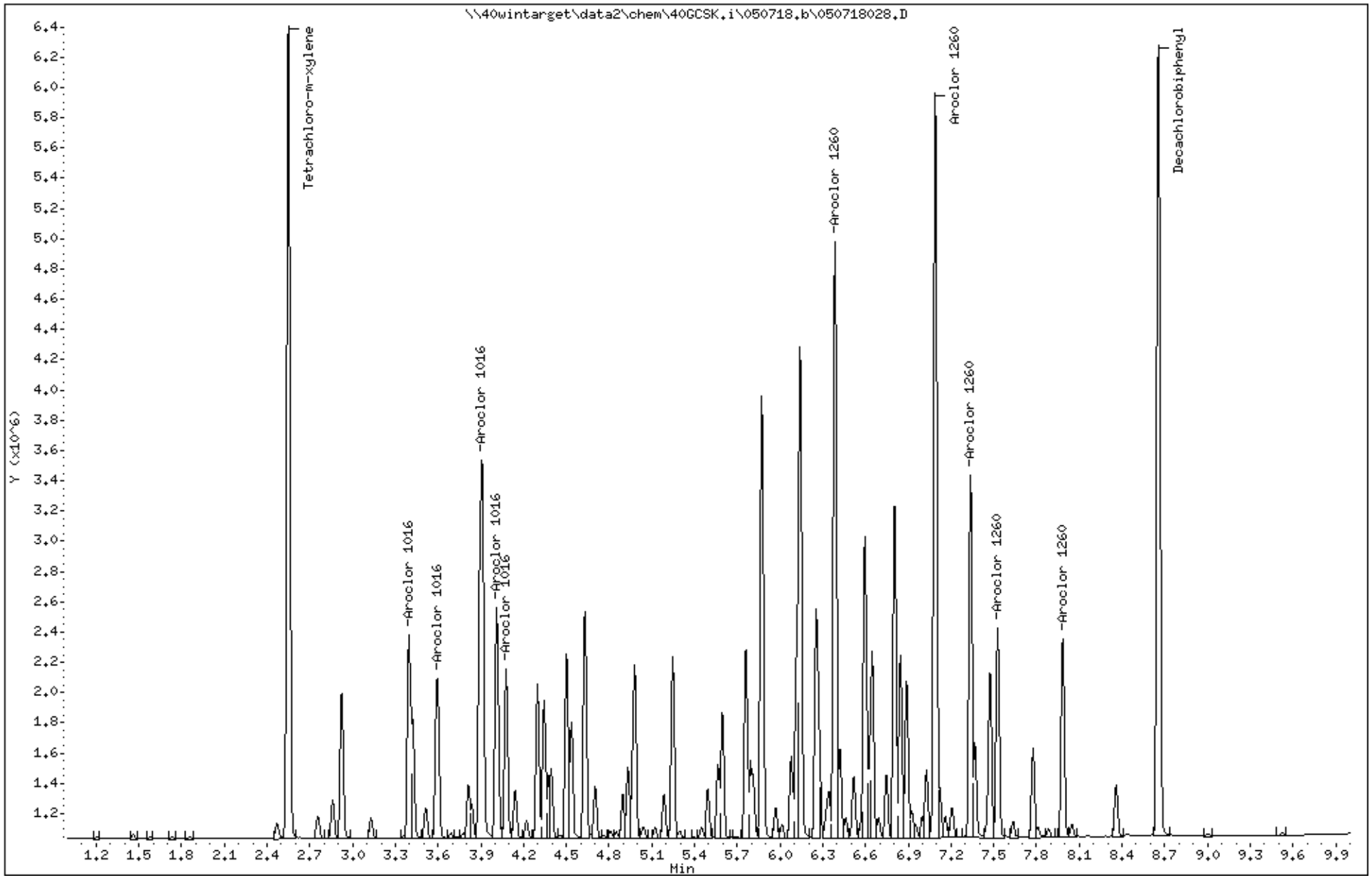
M - Compound response manually integrated.

Review Codes Legend

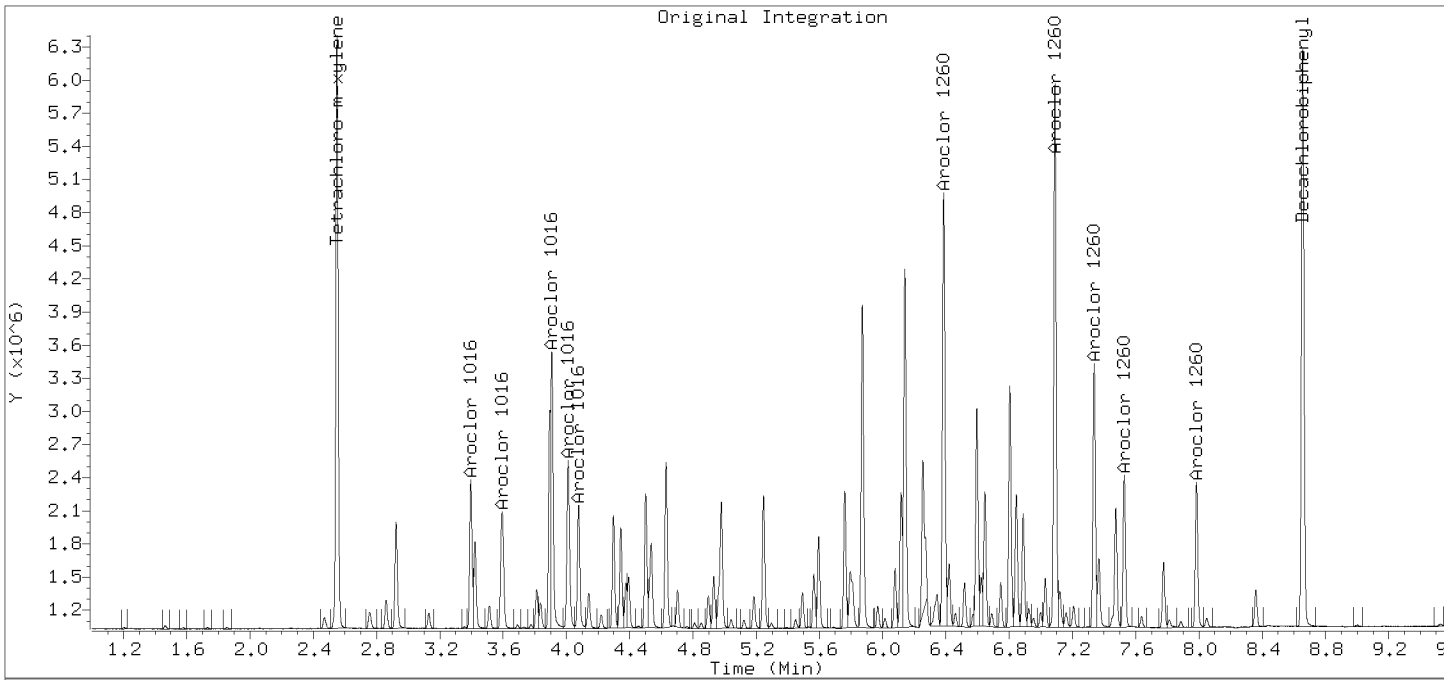
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

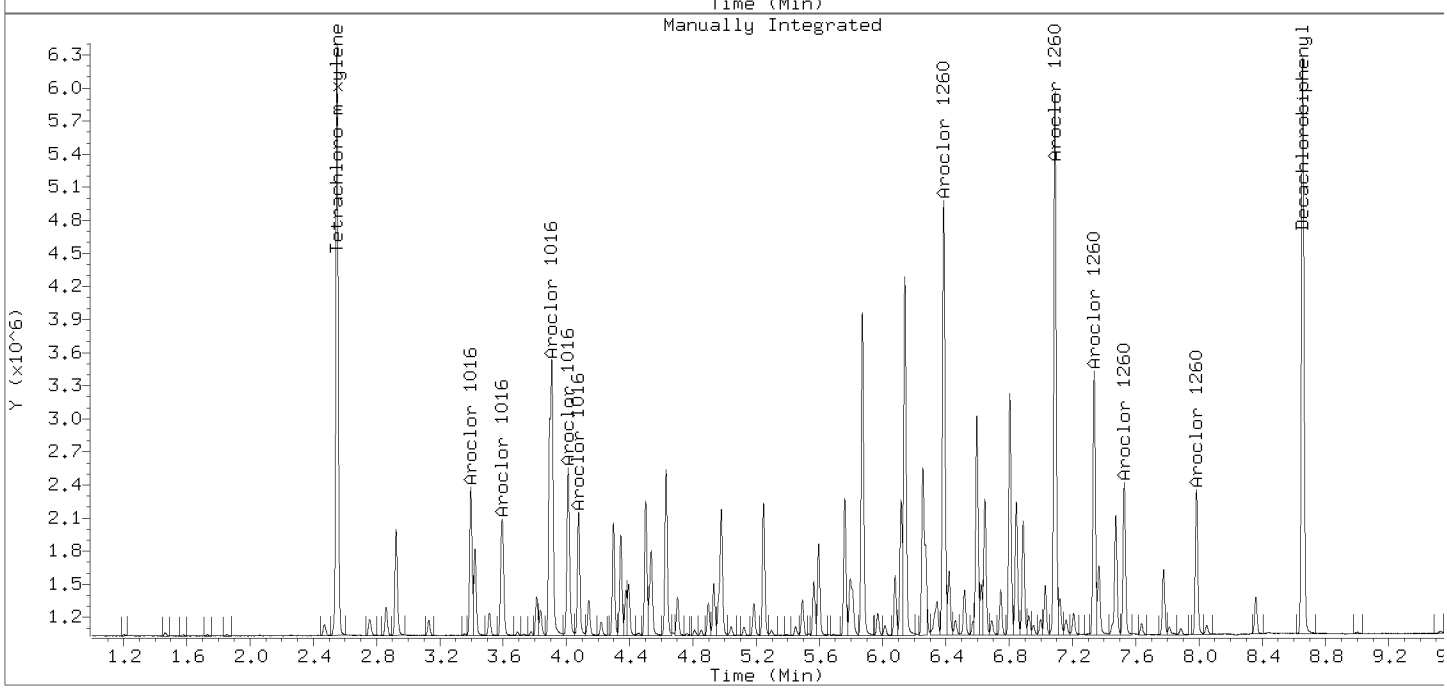
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Date : 07-MAY-2018 20:27
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

Instrument: 40GCSK.i
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

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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.

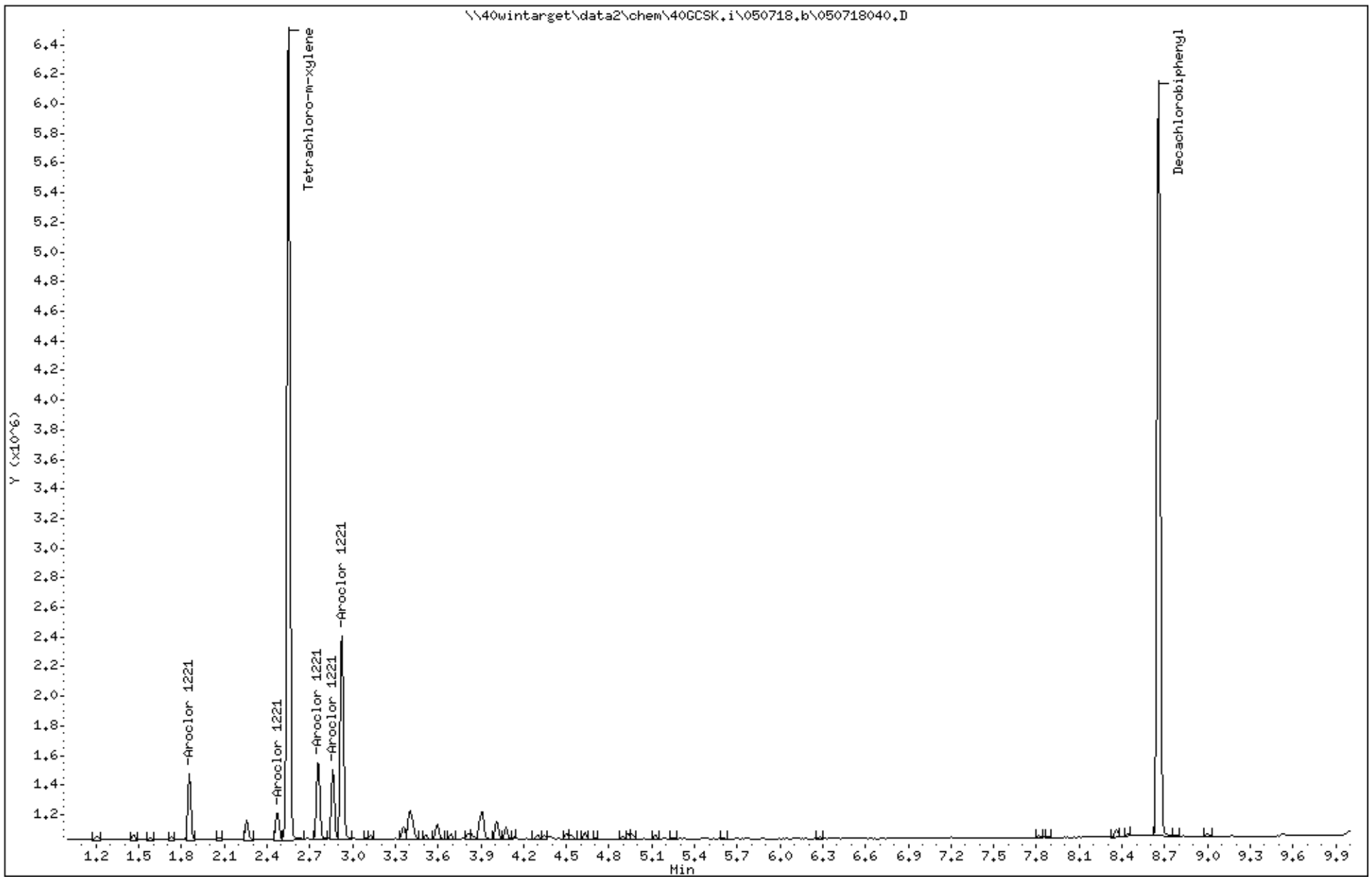
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Date : 07-MAY-2018 23:37
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

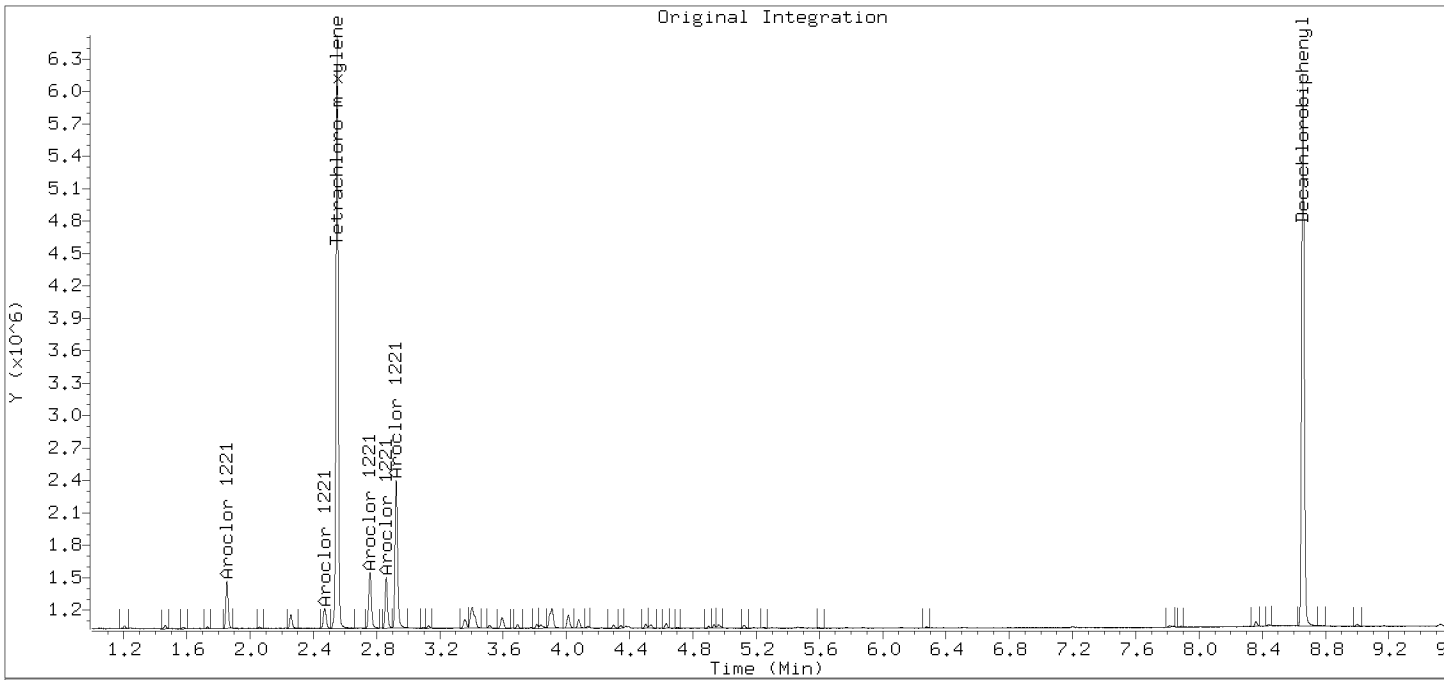
Operator: BLM

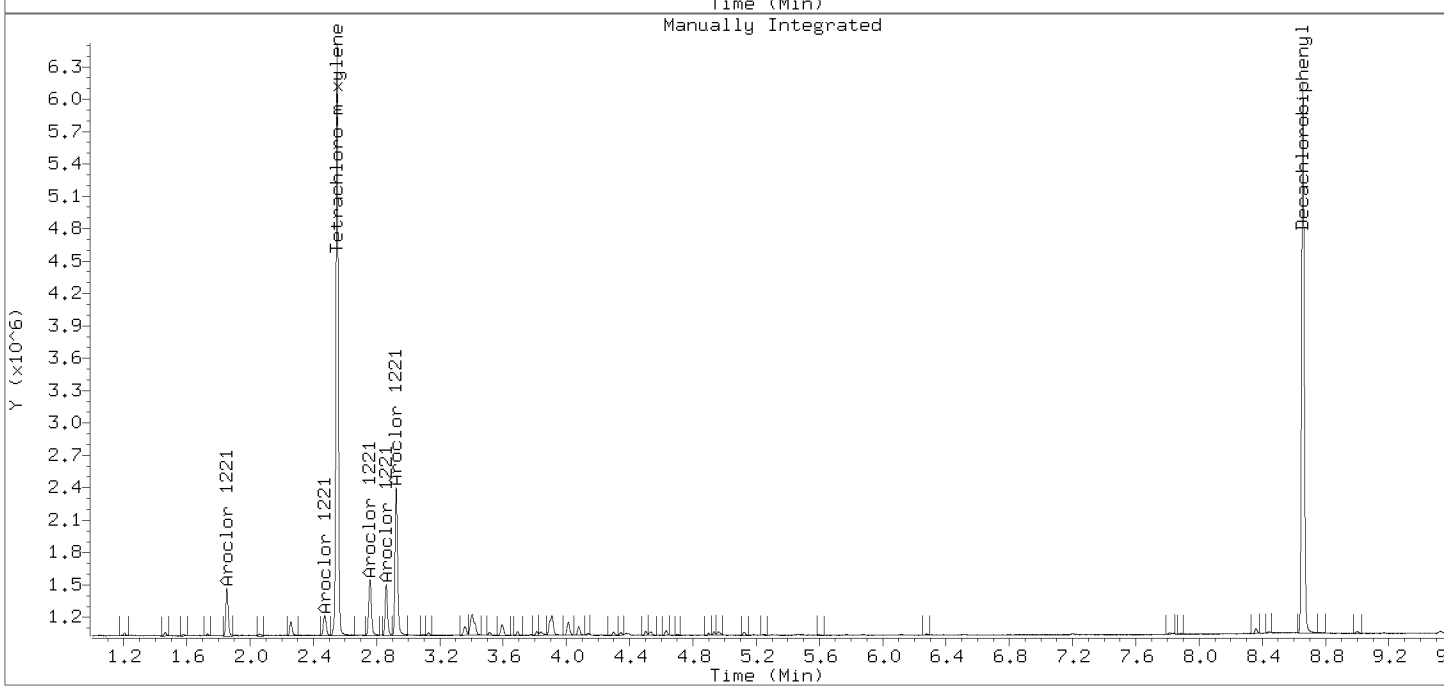
Column phase: ZB-1ms

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.

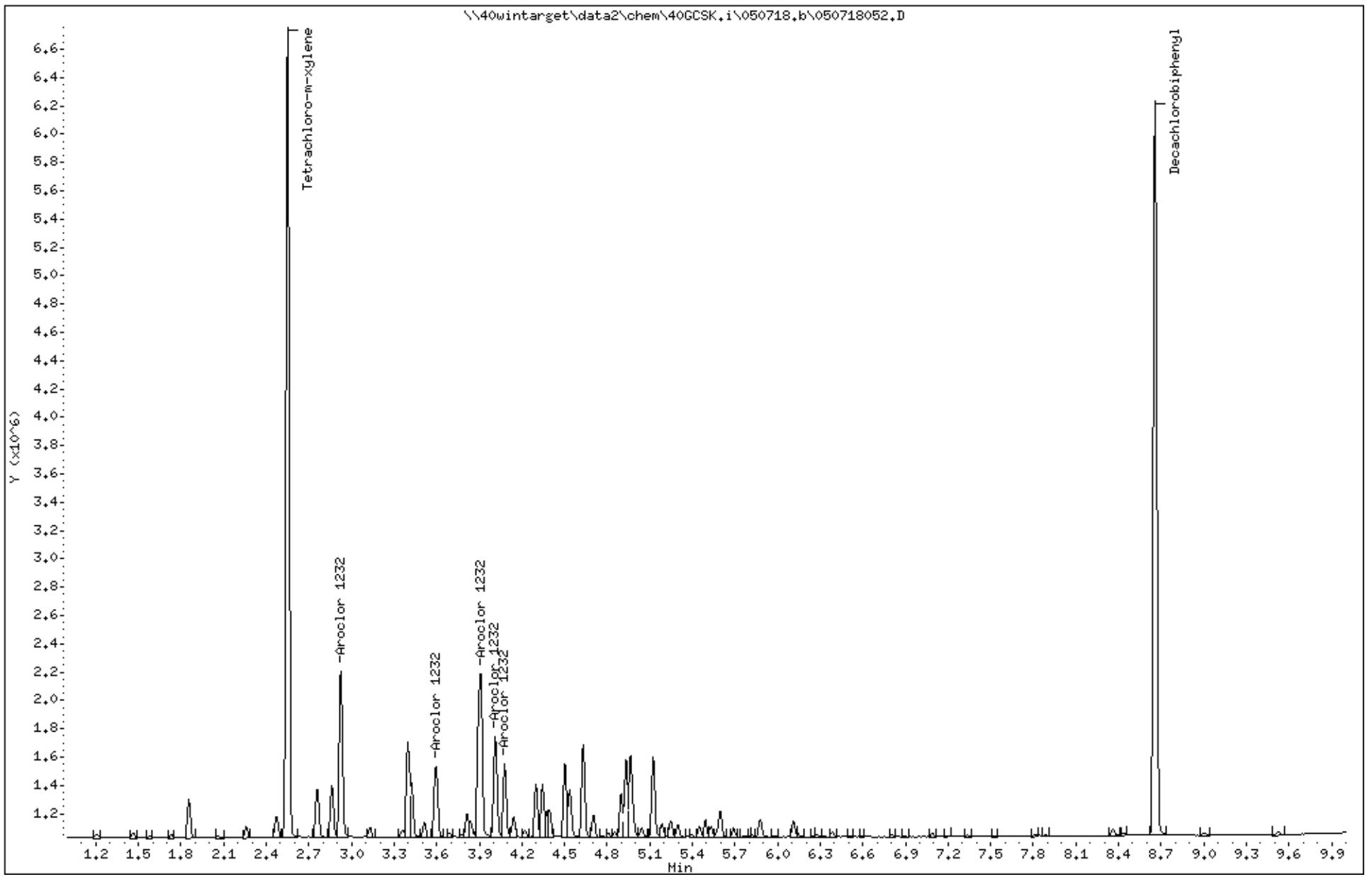
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Date : 08-MAY-2018 02:47
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSK.i

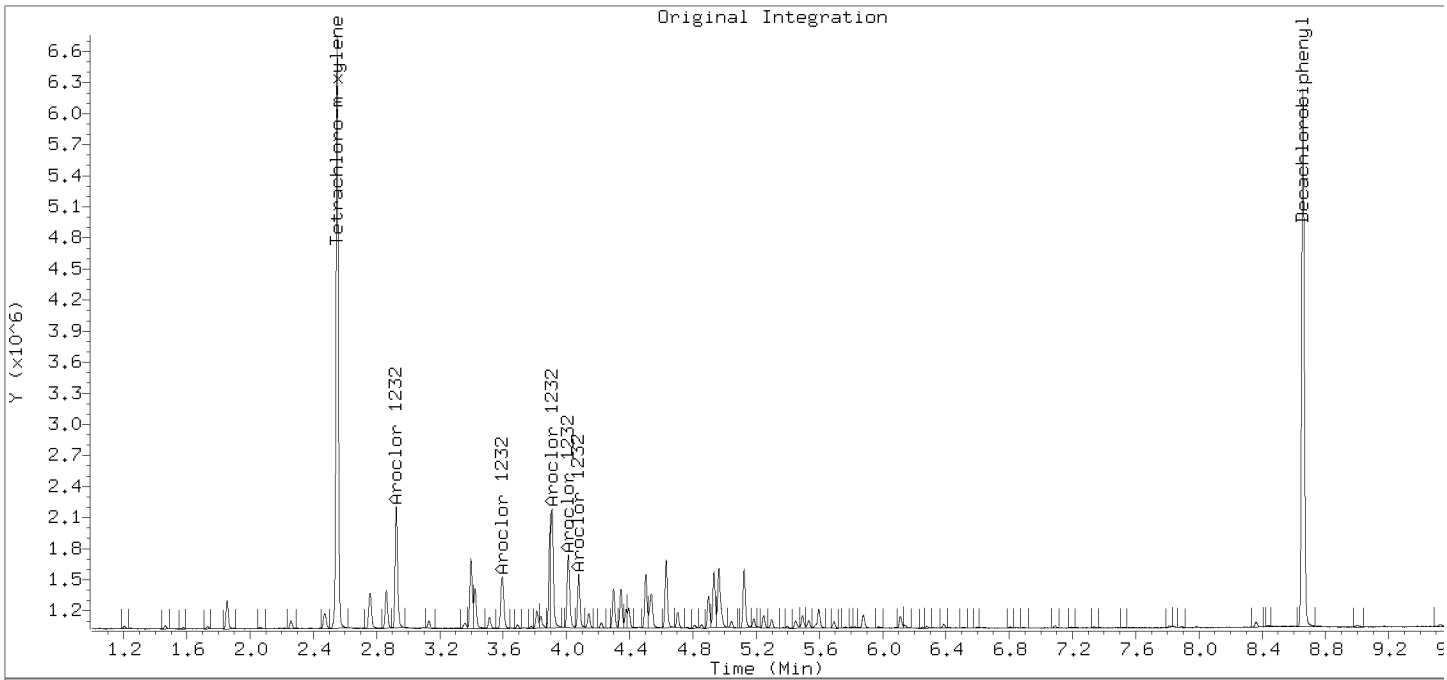
Operator: BLM

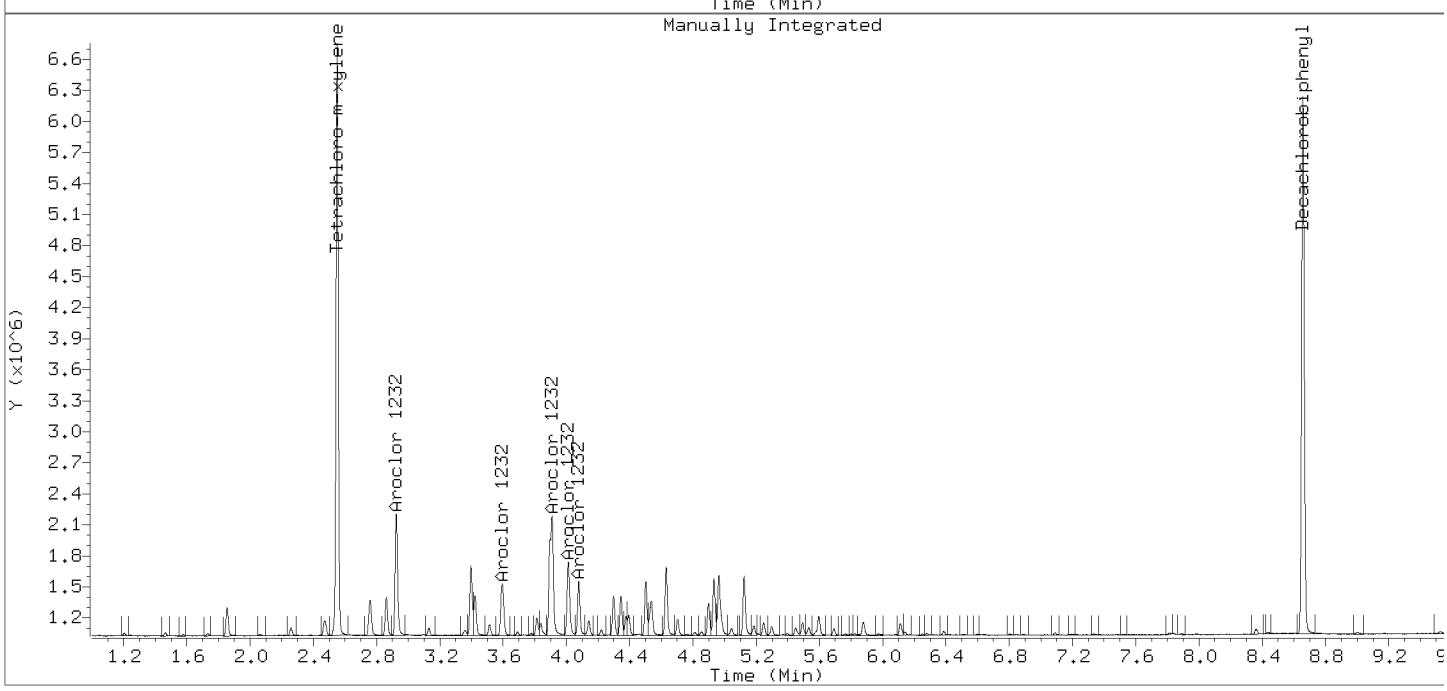
Column phase: ZB-1ms

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.

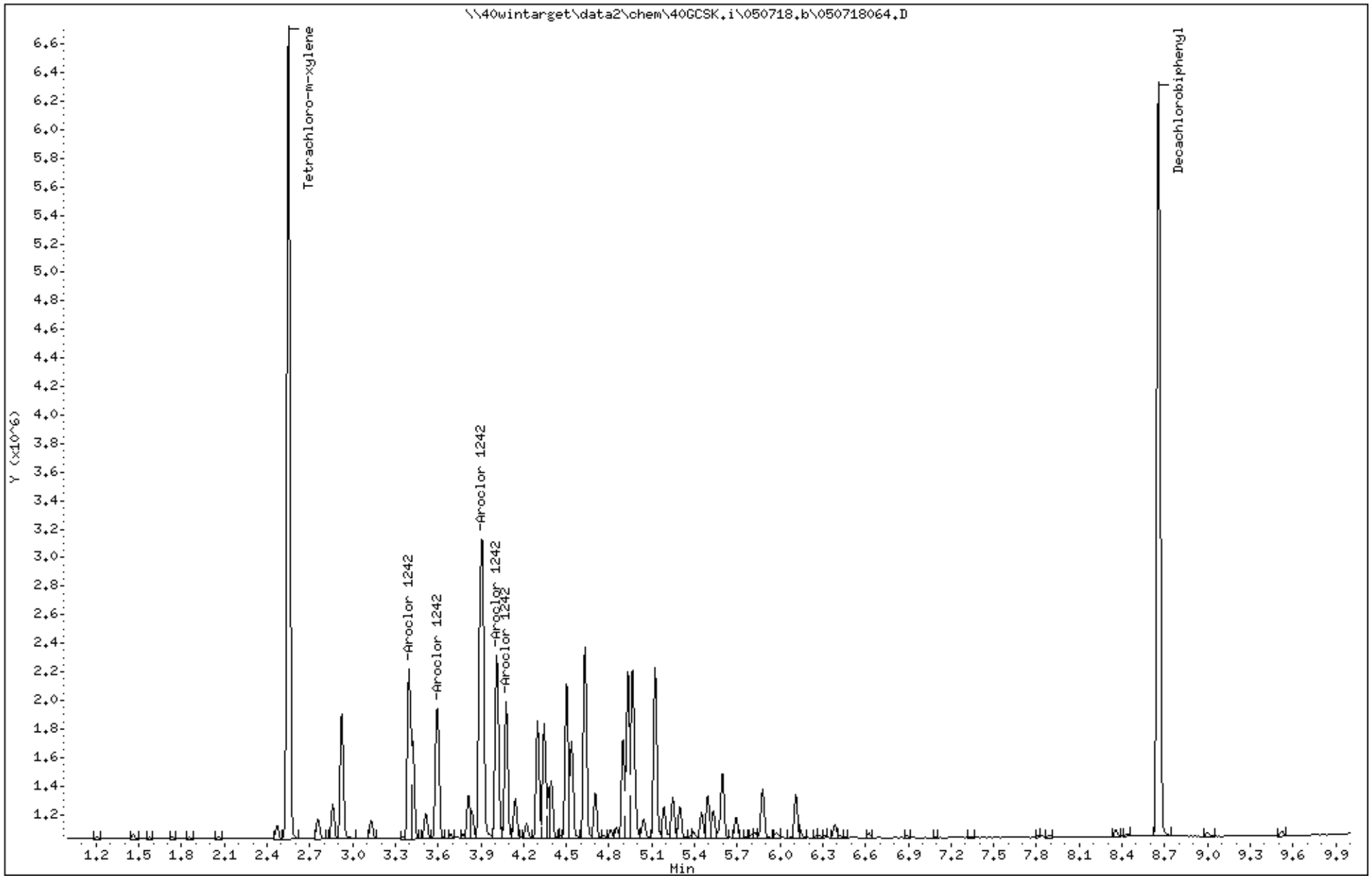
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Date : 08-MAY-2018 05:57
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSK.i

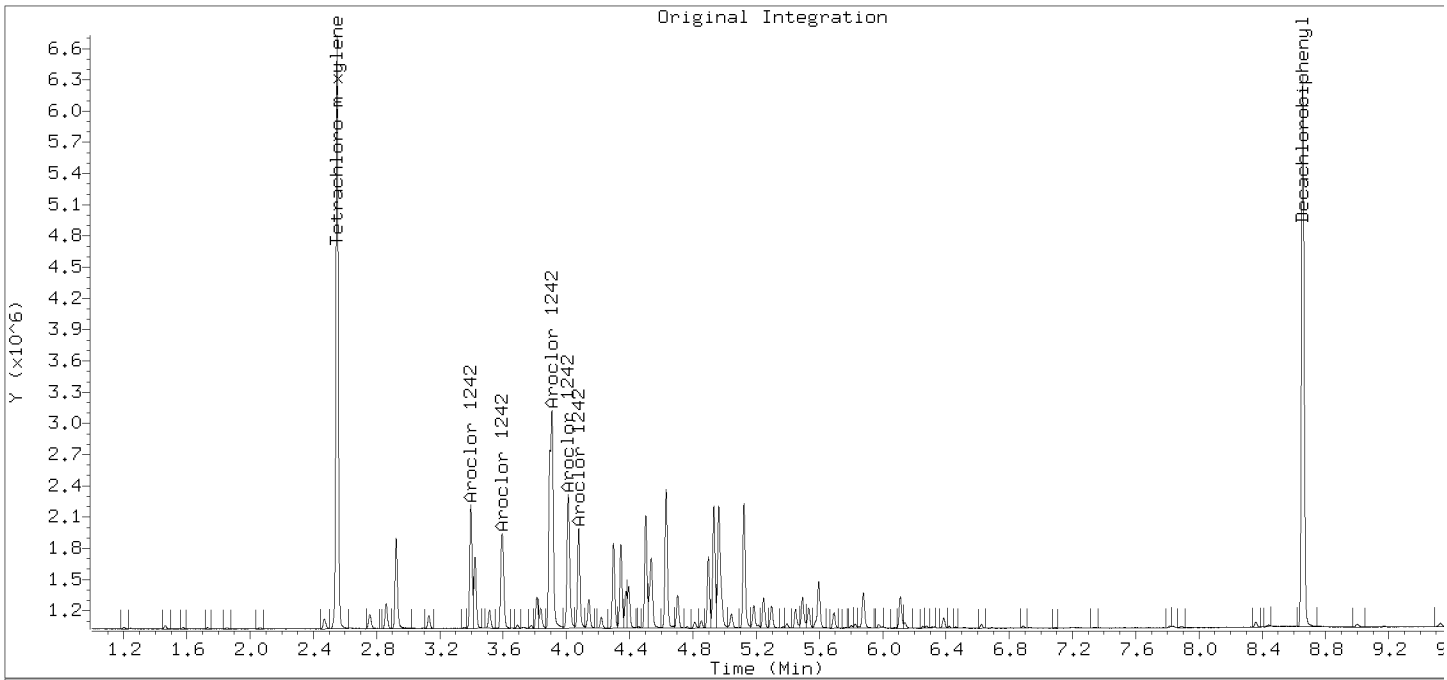
Operator: BLM

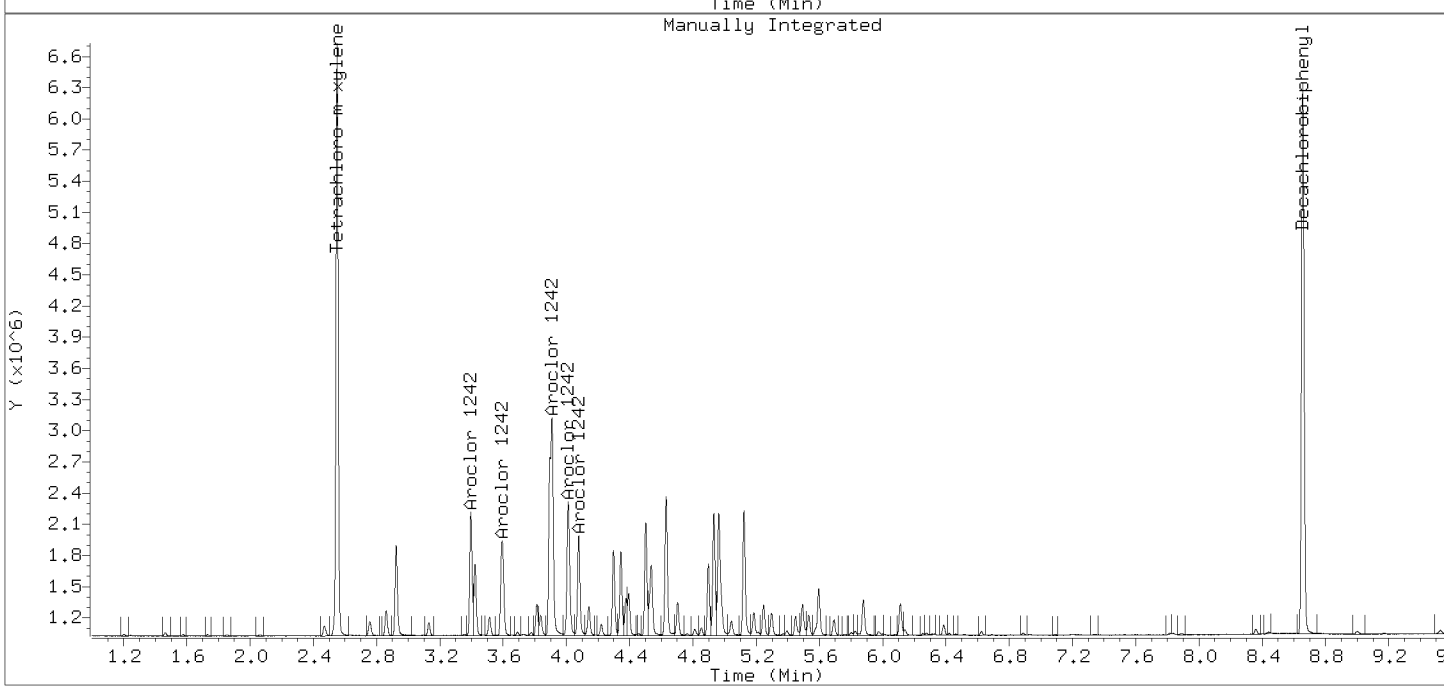
Column phase: ZB-1ms

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.

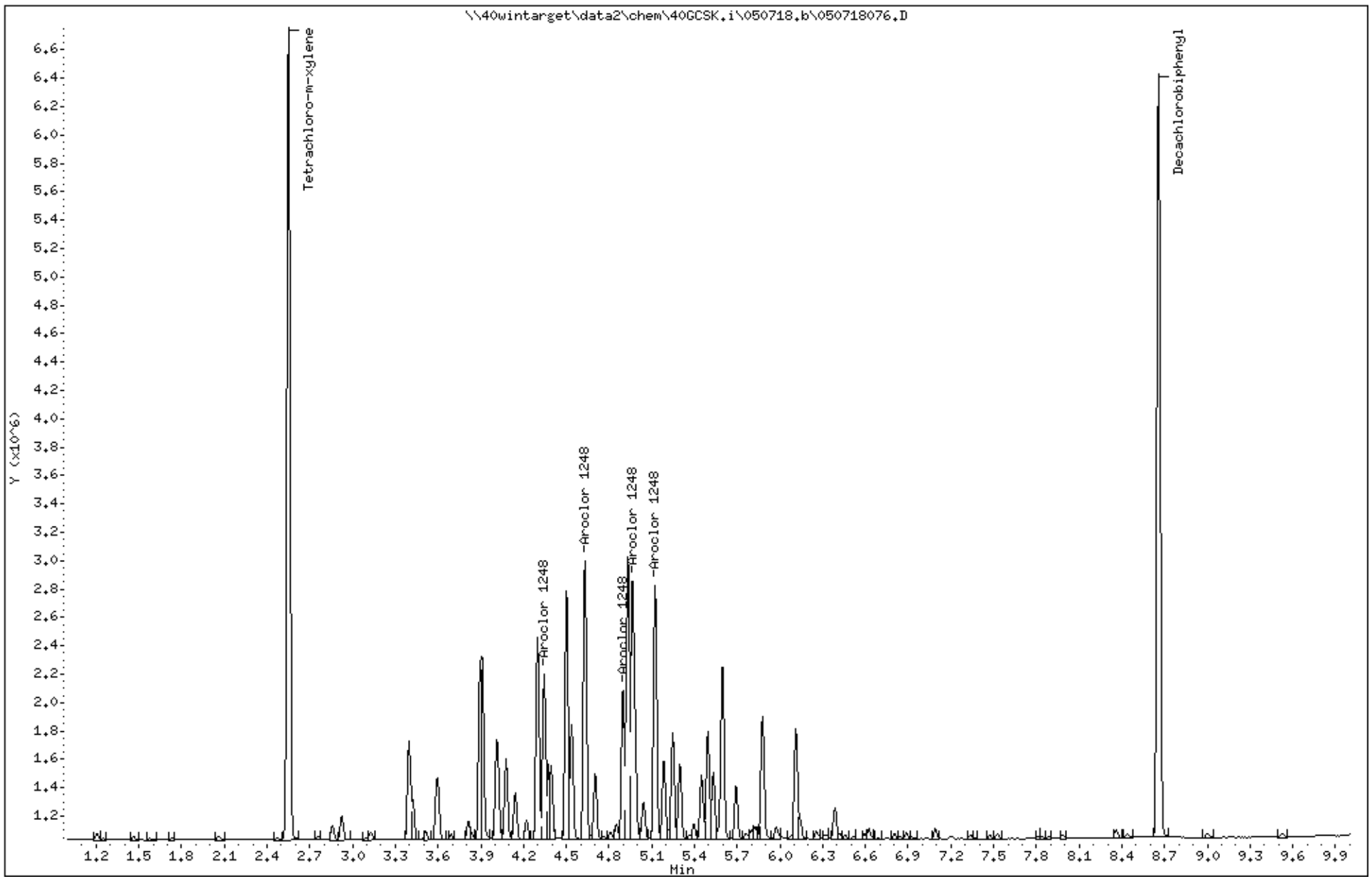
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Date : 08-MAY-2018 14:04
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

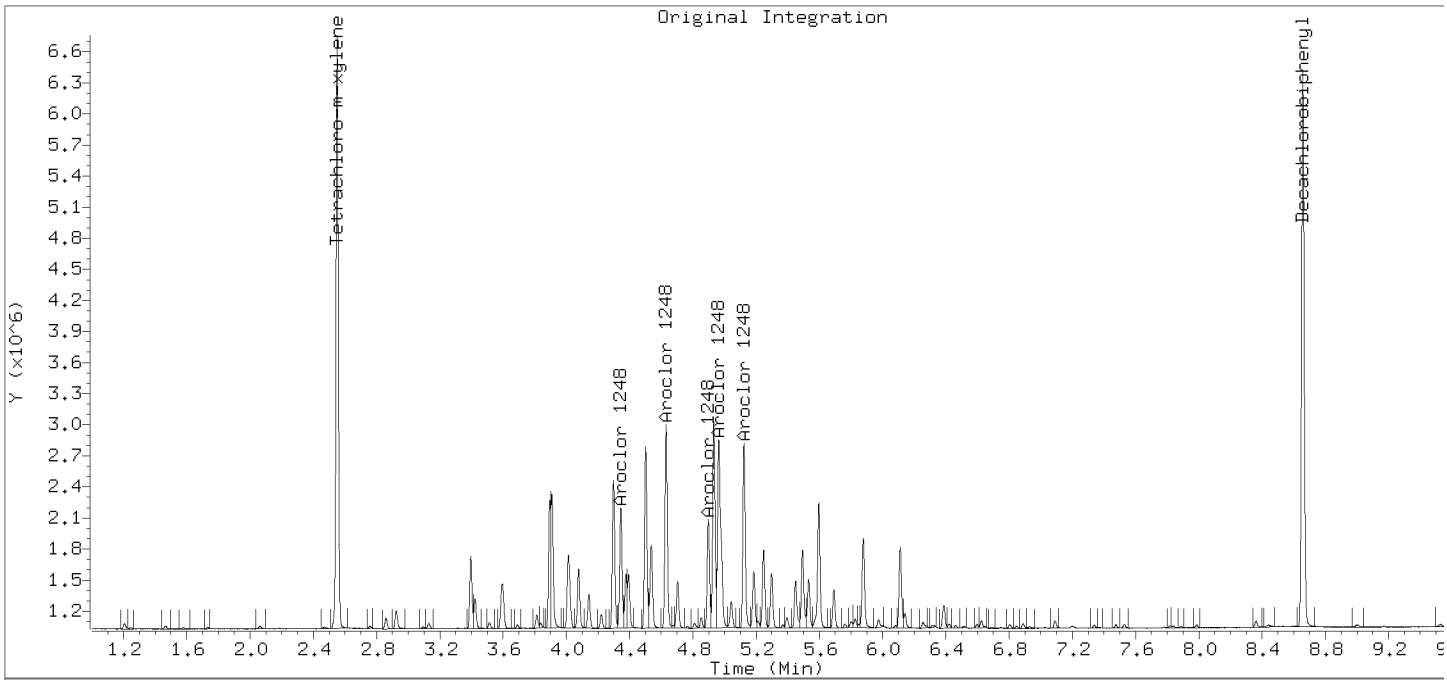
Operator: BLM

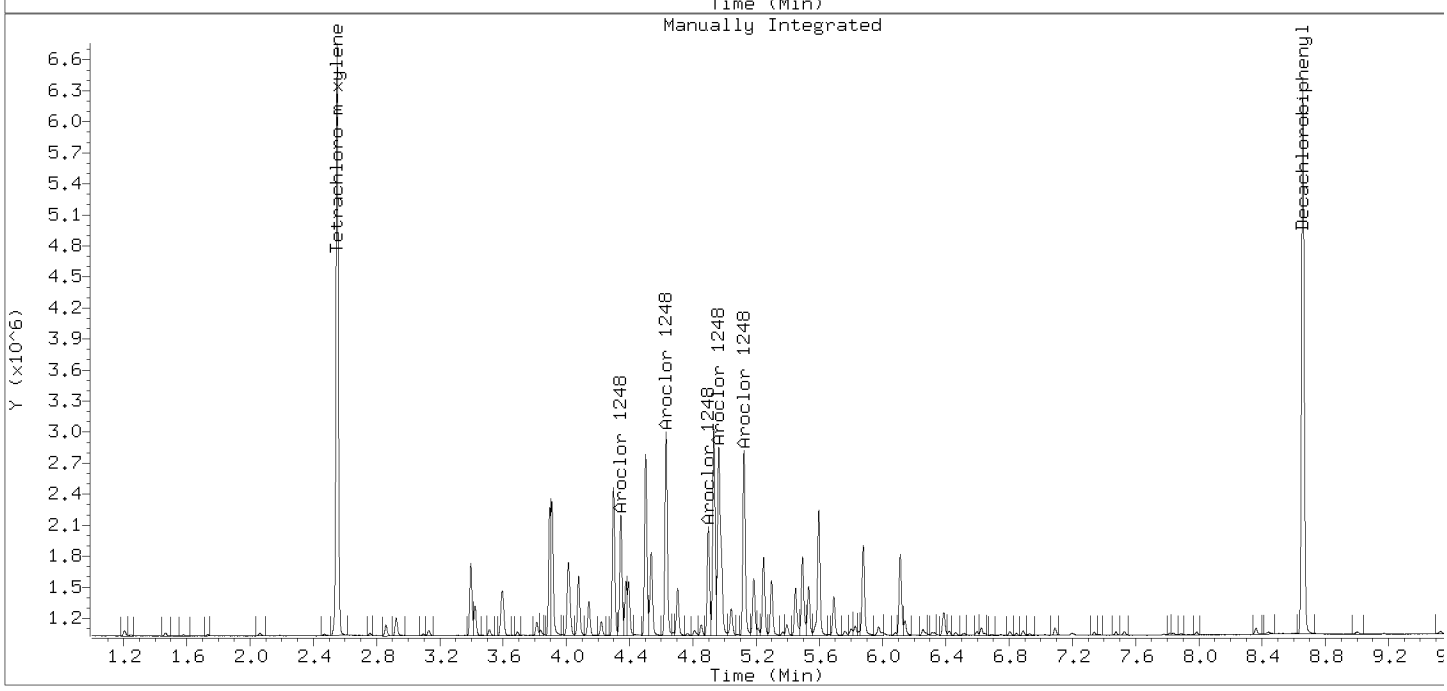
Column phase: ZB-1ms

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

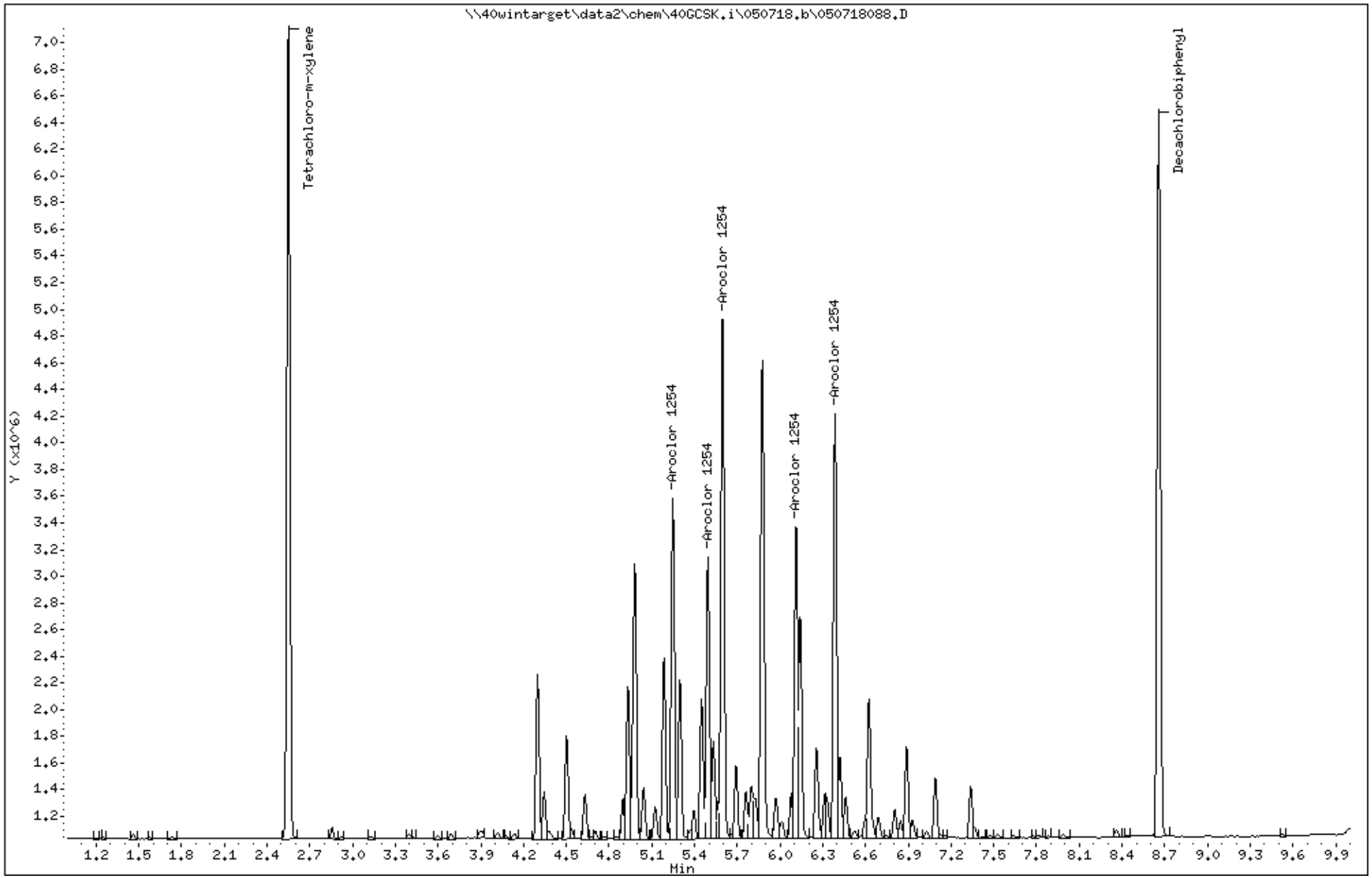
Instrument: 40GCSK.i

Sample Info: 1254-CCV, 185554:1

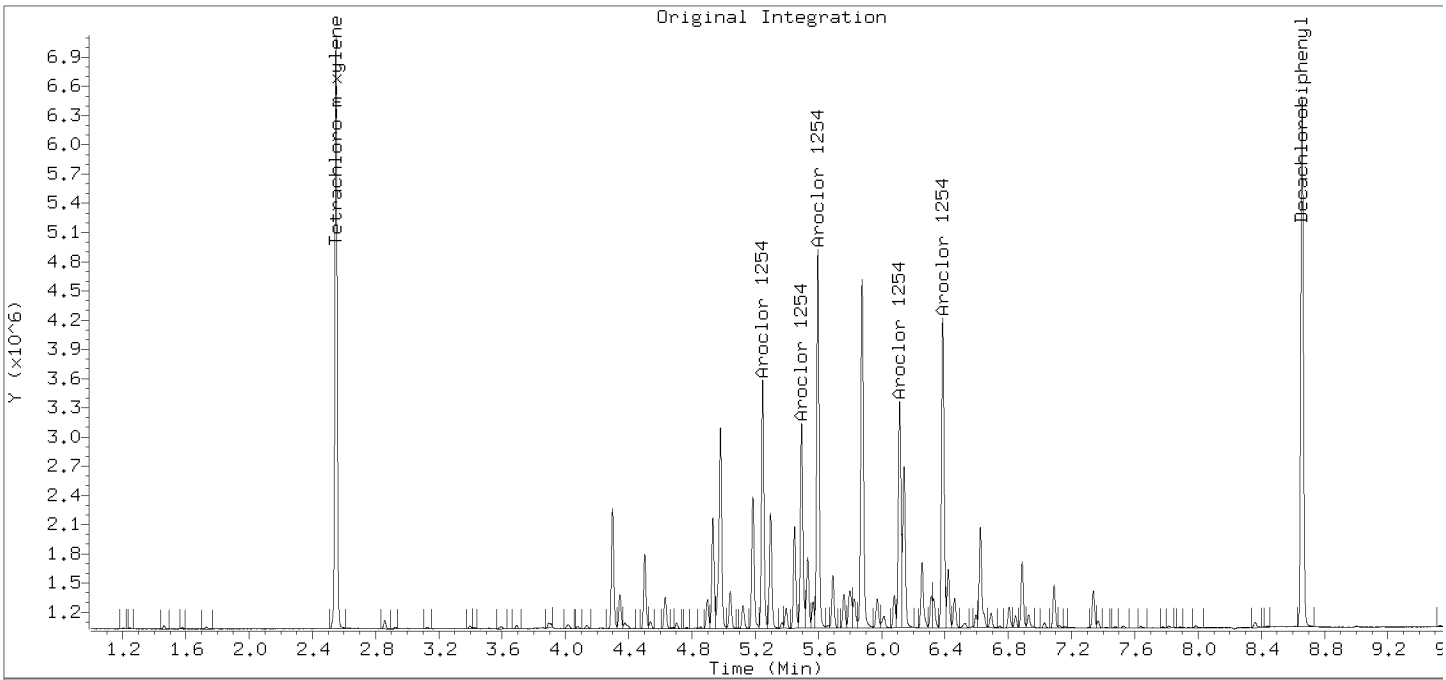
Operator: BLM

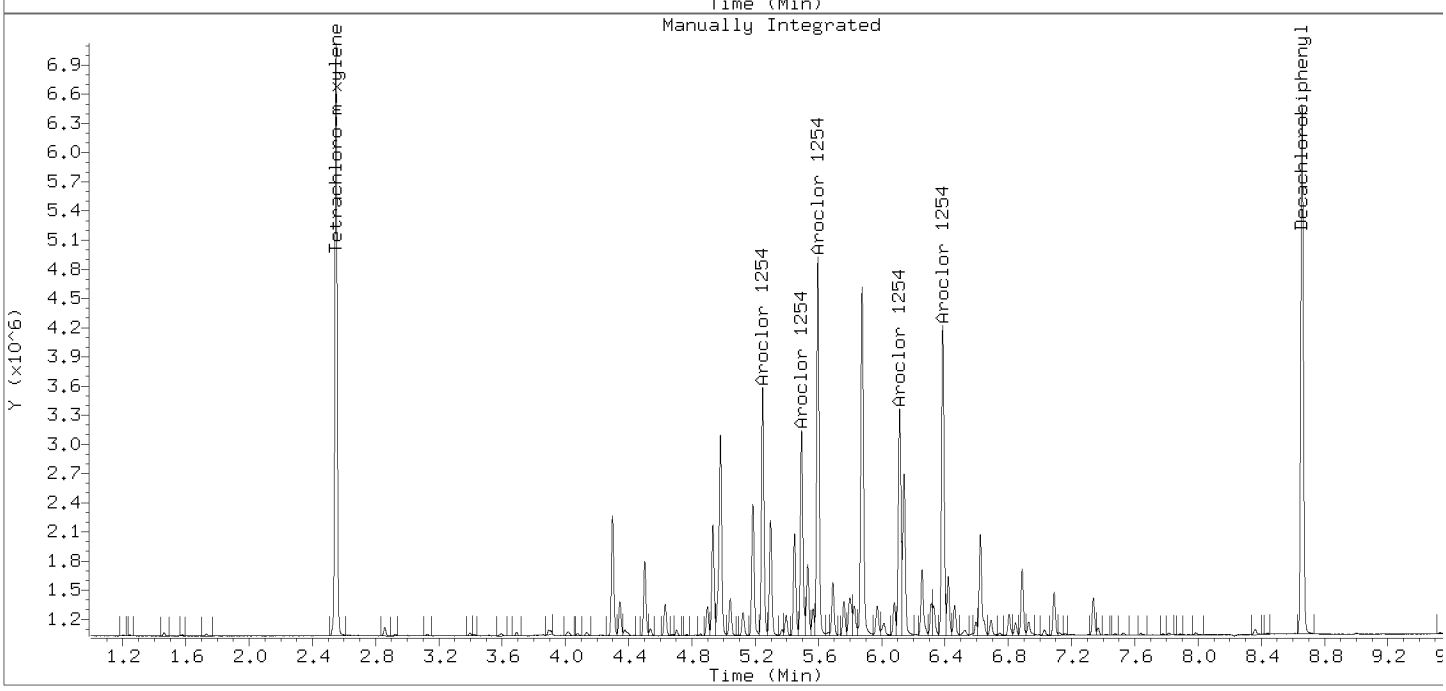
Column phase: ZB-1ms

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\051018.b\051018004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-MAY-2018 07:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 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: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.202	27438	24275	0.885	0.15			
1.243	10261	9518	0.928	0.05			
1.462	36907	32503	0.881	0.20			
1.576	17333	15609	0.901	0.09			
1.731	268280	268680	1.001	1.47			
1.804	16487	13353	0.810	0.09			
1.853	478163	453972	0.949	2.62		1 Aroclor 1221	BA
2.063	20801	15221	0.732	0.11			
2.257	154966	138427	0.893	0.85			
2.473	255153	189042	0.741	1.40		1 Aroclor 1221	BA
2.550	5639898	5555785	0.985	30.95	$	2 Tetrachloro-m-xylene	BA
2.759	671839	545634	0.812	3.68		1 Aroclor 1221	BA
2.861	527904	491584	0.931	2.89		1 Aroclor 1221	BA
2.923	1643372	1453893	0.885	9.02		1 Aroclor 1221	BA
3.090	19012	14694	0.773	0.10			
3.129	38539	30369	0.788	0.21			
3.360	113707	86009	0.756	0.62			
3.404	398309	205024	0.515	2.18			
3.512	36678	31059	0.847	0.20			
3.593	145985	102798	0.704	0.80			
3.690	38386	36822	0.959	0.21			
3.774	12770	11737	0.919	0.07			
3.812	43162	39937	0.925	0.23			
3.838	48701	40341	0.828	0.26			
3.910	336707	193836	0.576	1.84			
4.012	155901	127649	0.819	0.85			
4.077	101110	89517	0.885	0.55			
4.133	62261	48790	0.784	0.34			
4.298	36066	33904	0.940	0.19			
4.345	27492	28160	1.024	0.15			
4.375	15654	12598	0.805	0.08			
4.502	38788	41128	1.060	0.21			
4.533	44032	27460	0.624	0.24			
4.630	52400	48962	0.934	0.28			
4.704	11043	11424	1.034	0.06			
4.899	20808	19995	0.961	0.11			
4.934	34547	34129	0.988	0.18			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.964	55958	37223	0.665	0.30	
5.124	38006	31543	0.830	0.20	
5.244	13946	10921	0.783	0.07	
5.483	23795	13325	0.560	0.13	
5.878	11414	9614	0.842	0.06	
6.021	20191	14829	0.734	0.11	
6.278	24526	20156	0.822	0.13	
6.508	21660	14728	0.680	0.11	
7.194	37347	20186	0.541	0.20	
7.816	21157	19808	0.936	0.11	
7.838	41992	30749	0.732	0.23	
7.890	20713	13810	0.667	0.11	
8.362	55017	46012	0.836	0.30	
8.441	54895	34474	0.628	0.30	
8.658	5923864	5132519	0.866	32.74	$ 12 Decachlorobiphenyl
9.000	78967	47864	0.606	0.43	
9.403	21631	19257	0.890	0.11	
9.526	91395	58408	0.639	0.50	
9.741	60747	17407	0.287	0.33	
	18218084	16116671		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-MAY-2018 07:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 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: 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			
2.550	2.549	0.001	5639897	0.05000	0.047		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.853	1.853	0.000	478162	0.50000	0.48	0.00- 20.00	100.00(M)	BA
2.472	2.471	0.001	255153	0.50000	0.48	0.00- 20.00	53.36	BA
2.758	2.758	0.000	671839	0.50000	0.48	0.00- 20.00	140.50	BA
2.860	2.860	0.000	527903	0.50000	0.48	0.00- 20.00	110.40	BA
2.923	2.923	0.000	1643372	0.50000	0.49	0.00- 20.00	343.69	BA
Average of Peak Amounts =					0.48200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	5923863	0.05000	0.044			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

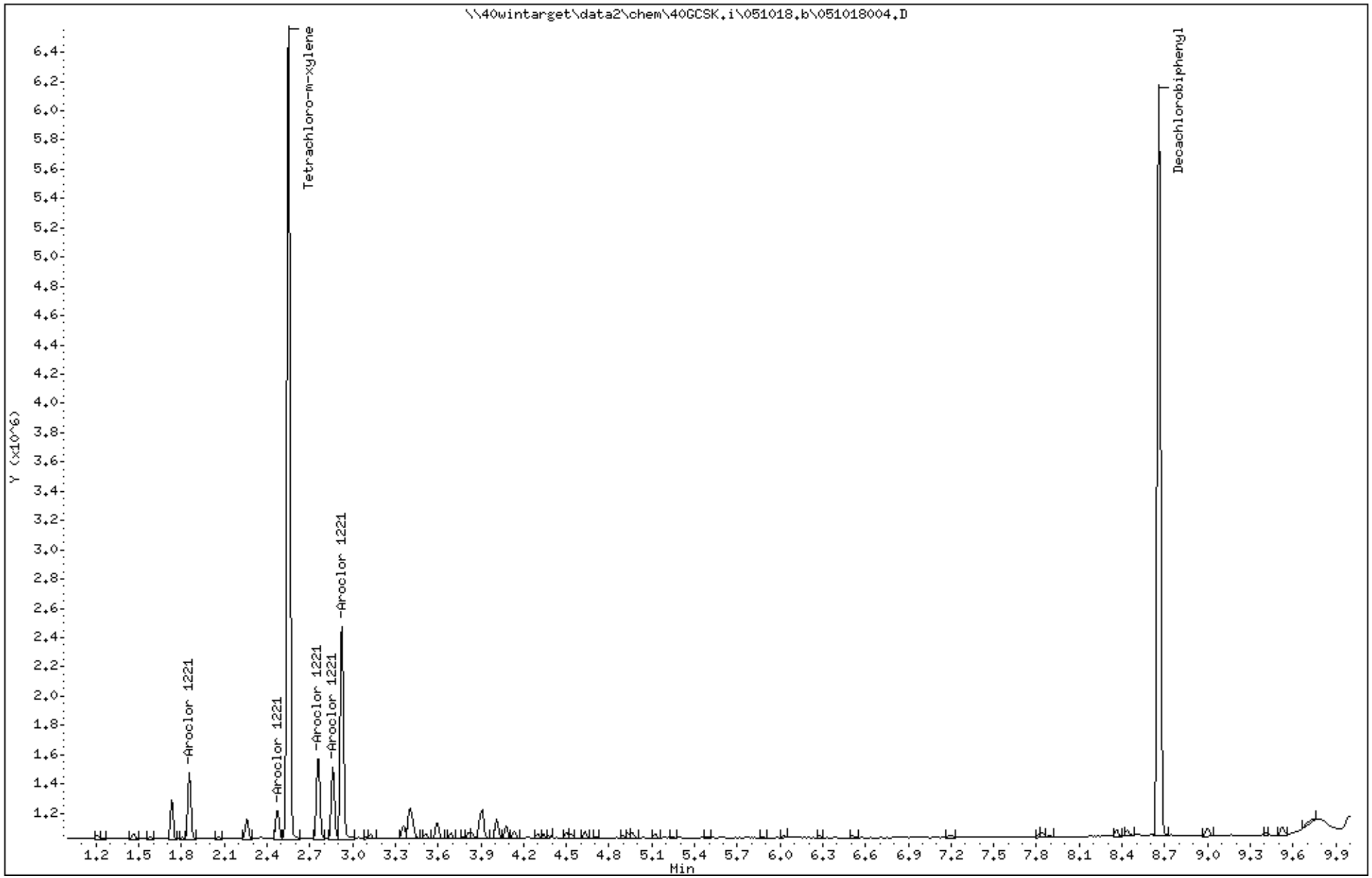
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018004.D
Date : 10-MAY-2018 07:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

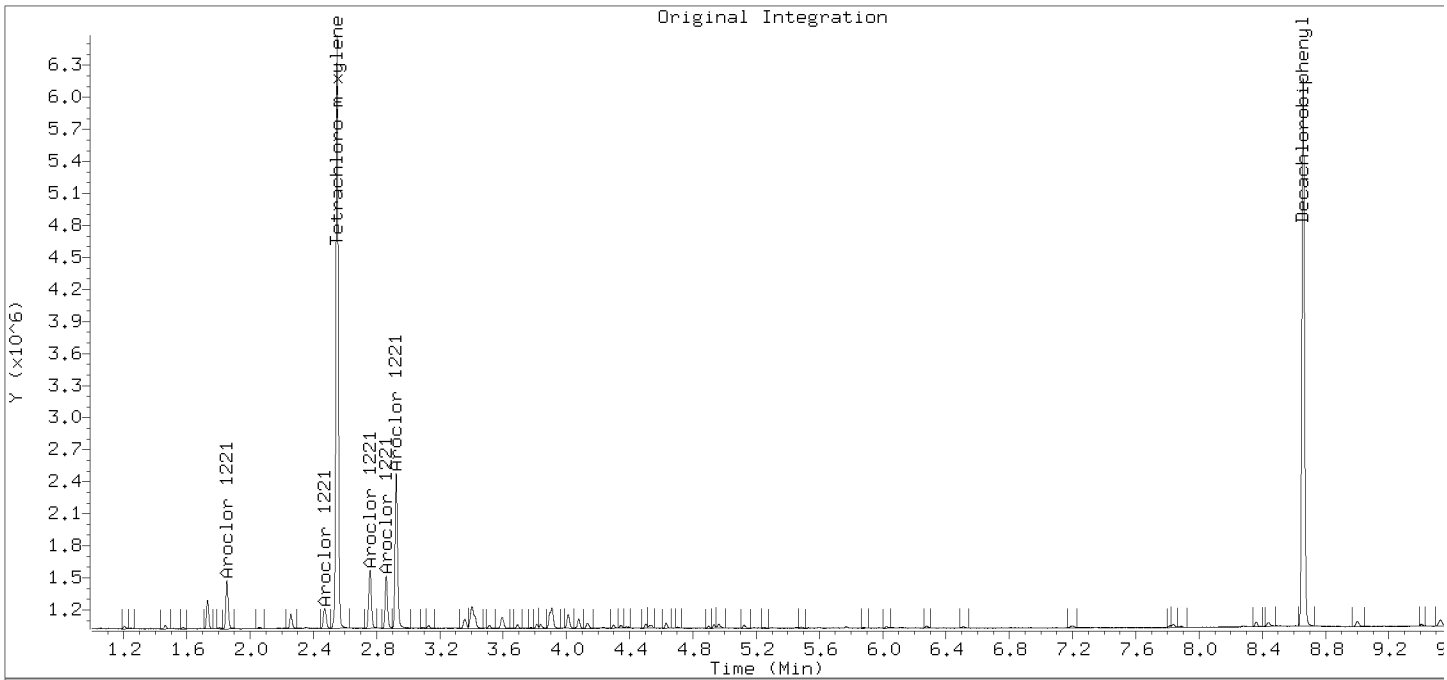
Instrument: 40GCSK.i

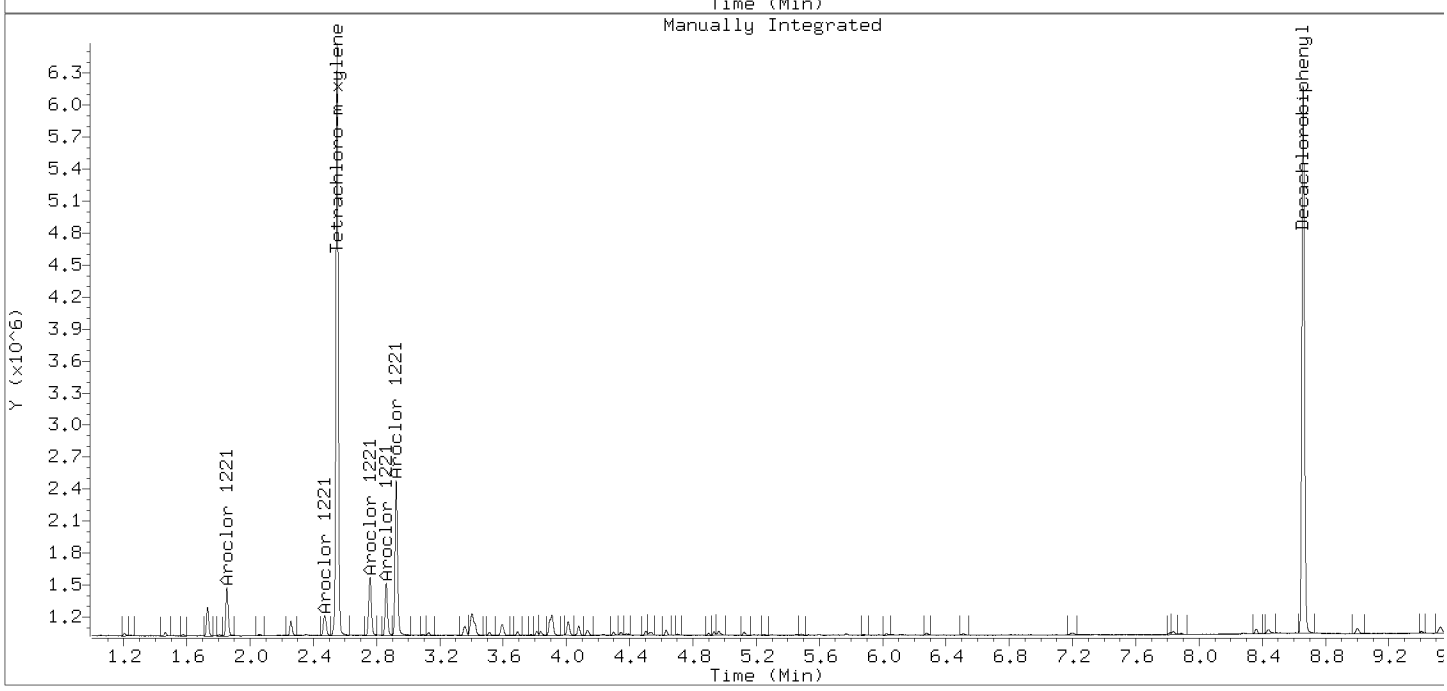
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 10-MAY-2018 07:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Tetrachloro-m-xylene	5616161	5639897	BA
Decachlorobiphenyl	5923863	5923863	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-MAY-2018 09:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 10 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	36746	32389	0.881	0.13		
1.462	33548	33144	0.988	0.12		
1.573	21467	16701	0.778	0.07		
1.732	20806	16413	0.789	0.07		
1.853	278237	268694	0.966	1.01		
2.061	21550	18292	0.849	0.07		
2.259	75503	73631	0.975	0.27		
2.470	186379	141705	0.760	0.67		
2.549	5504495	5484717	0.996	20.01	$ 2 Tetrachloro-m-xylene	
2.758	419915	345201	0.822	1.52		
2.860	393953	364431	0.925	1.43		
2.923	1295482	1155163	0.892	4.70	4 Aroclor 1232	BA
3.091	20737	14908	0.719	0.07		
3.131	83996	75172	0.895	0.30		
3.358	72230	52637	0.729	0.26		
3.396	736880	660339	0.896	2.67		
3.422	420694	373239	0.887	1.52		
3.514	120989	103668	0.857	0.43		
3.594	674282	487391	0.723	2.45	4 Aroclor 1232	BA
3.692	41416	37396	0.903	0.15		
3.777	27254	22936	0.842	0.09		
3.813	179507	173937	0.969	0.65		
3.836	132038	115416	0.874	0.48		
3.908	1991824	1130633	0.568	7.24	4 Aroclor 1232	BA
4.012	851216	705721	0.829	3.09	4 Aroclor 1232	BA
4.078	563811	513330	0.910	2.04	4 Aroclor 1232	BA
4.142	164355	137325	0.836	0.59		
4.220	71434	52696	0.738	0.25		
4.298	405740	379203	0.935	1.47		
4.345	393500	369745	0.940	1.43		
4.376	173093	173904	1.005	0.62		
4.395	202056	192155	0.951	0.73		
4.458	19499	14742	0.756	0.07		
4.502	542373	521416	0.961	1.97		
4.536	475672	321571	0.676	1.72		
4.631	712045	656412	0.922	2.58		
4.705	168087	153708	0.914	0.61		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.810	41266	32890	0.797	0.15	
4.854	42527	36554	0.860	0.15	
4.898	326600	313306	0.959	1.18	
4.933	576210	548660	0.952	2.09	
4.964	754412	566035	0.750	2.74	
5.043	80514	62718	0.779	0.29	
5.123	629892	585863	0.930	2.29	
5.185	101686	91395	0.899	0.36	
5.248	136715	119808	0.876	0.49	
5.298	99044	87626	0.885	0.36	
5.395	25680	20578	0.801	0.09	
5.449	108467	75463	0.696	0.39	
5.494	138723	119639	0.862	0.50	
5.533	89902	77421	0.861	0.32	
5.596	248029	182408	0.735	0.90	
5.692	73175	60831	0.831	0.26	
5.762	21597	16309	0.755	0.07	
5.879	167020	132661	0.794	0.60	
5.976	23762	17324	0.729	0.08	
6.113	134829	117114	0.869	0.49	
6.141	32472	28495	0.878	0.11	
6.255	10017	13329	1.331	0.03	
6.276	19373	15668	0.809	0.07	
6.386	41520	36263	0.873	0.15	
6.506	10083	7514	0.745	0.03	
6.804	14476	13779	0.952	0.05	
7.092	26992	22750	0.843	0.09	
7.339	11724	13031	1.112	0.04	
7.817	20986	16924	0.806	0.07	
7.886	16324	13403	0.821	0.05	
7.984	9857	7606	0.772	0.03	
8.361	54470	47216	0.867	0.19	
8.440	14799	14473	0.978	0.05	
8.658	5832197	5006691	0.858	21.56	$ 12 Decachlorobiphenyl
9.167	11085	7794	0.703	0.04	
9.529	26336	17627	0.669	0.09	
	27505567	23937247		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-MAY-2018 09:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 10 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		
2.549	2.549	0.000	5504495	0.05000	0.046			
4 Aroclor 1232						CAS #: 1114-16-5		
2.923	2.922	0.001	1295481	0.50000	0.48	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	674281	0.50000	0.48	0.00- 20.00	52.05	BA
3.908	3.908	0.000	1991824	0.50000	0.48	0.00- 20.00	153.75	BA
4.012	4.011	0.001	851216	0.50000	0.48	0.00- 20.00	65.71	BA
4.078	4.078	0.000	563810	0.50000	0.48	0.00- 20.00	43.52	BA
Average of Peak Amounts =					0.48000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.657	8.657	0.000	5832197	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.

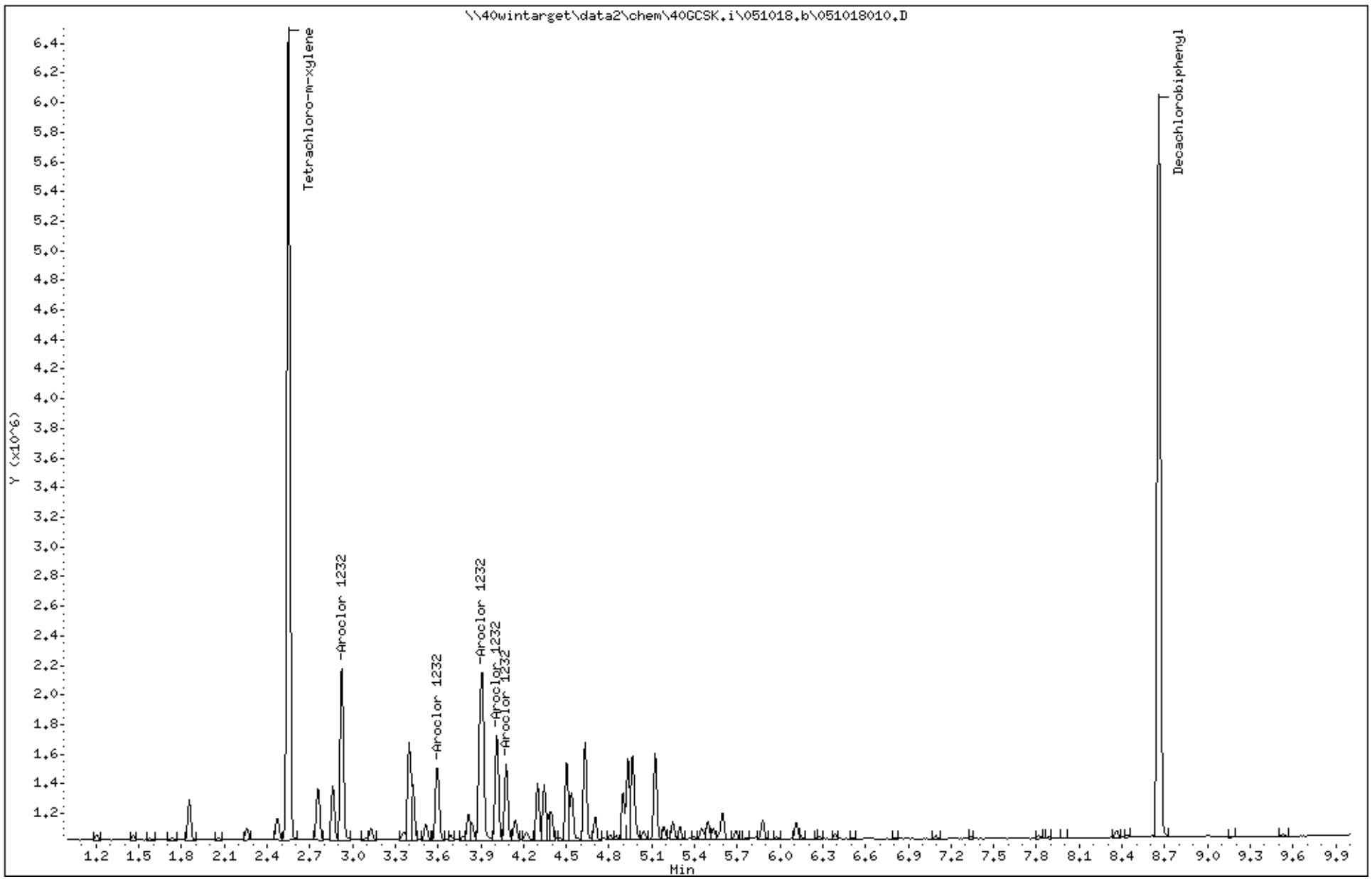
Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D
Date : 10-MAY-2018 09:46
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSK.i

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018010.D (ManInt: AR1232.sub Orig: AR1221.sub)
Injection Date: 10-MAY-2018 09:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV

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.: 40157948

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).

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).

---

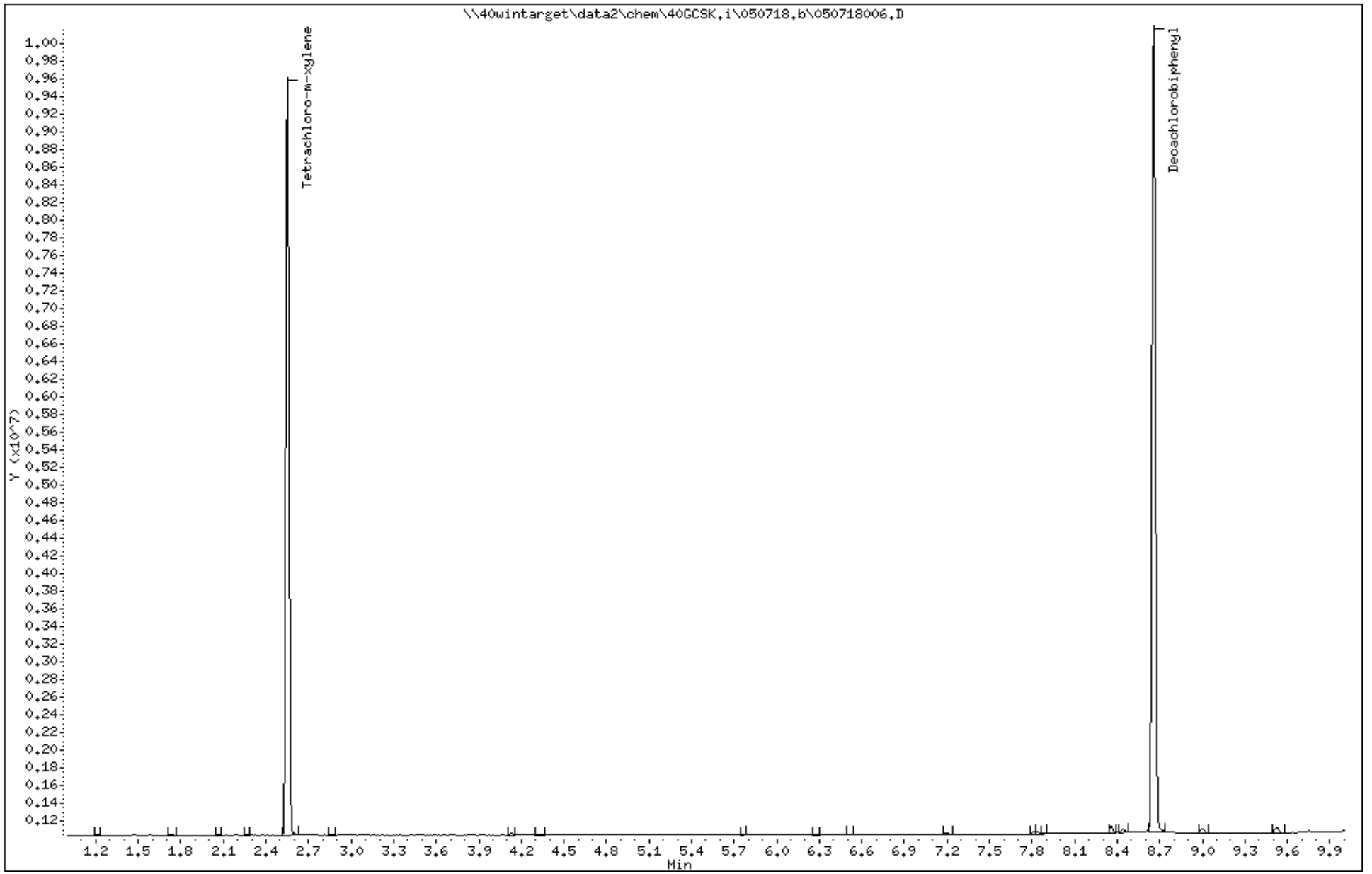
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	8.657	-0.001	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.: 40157948

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.

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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).

$ 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

Instrument: 40GCSK.i

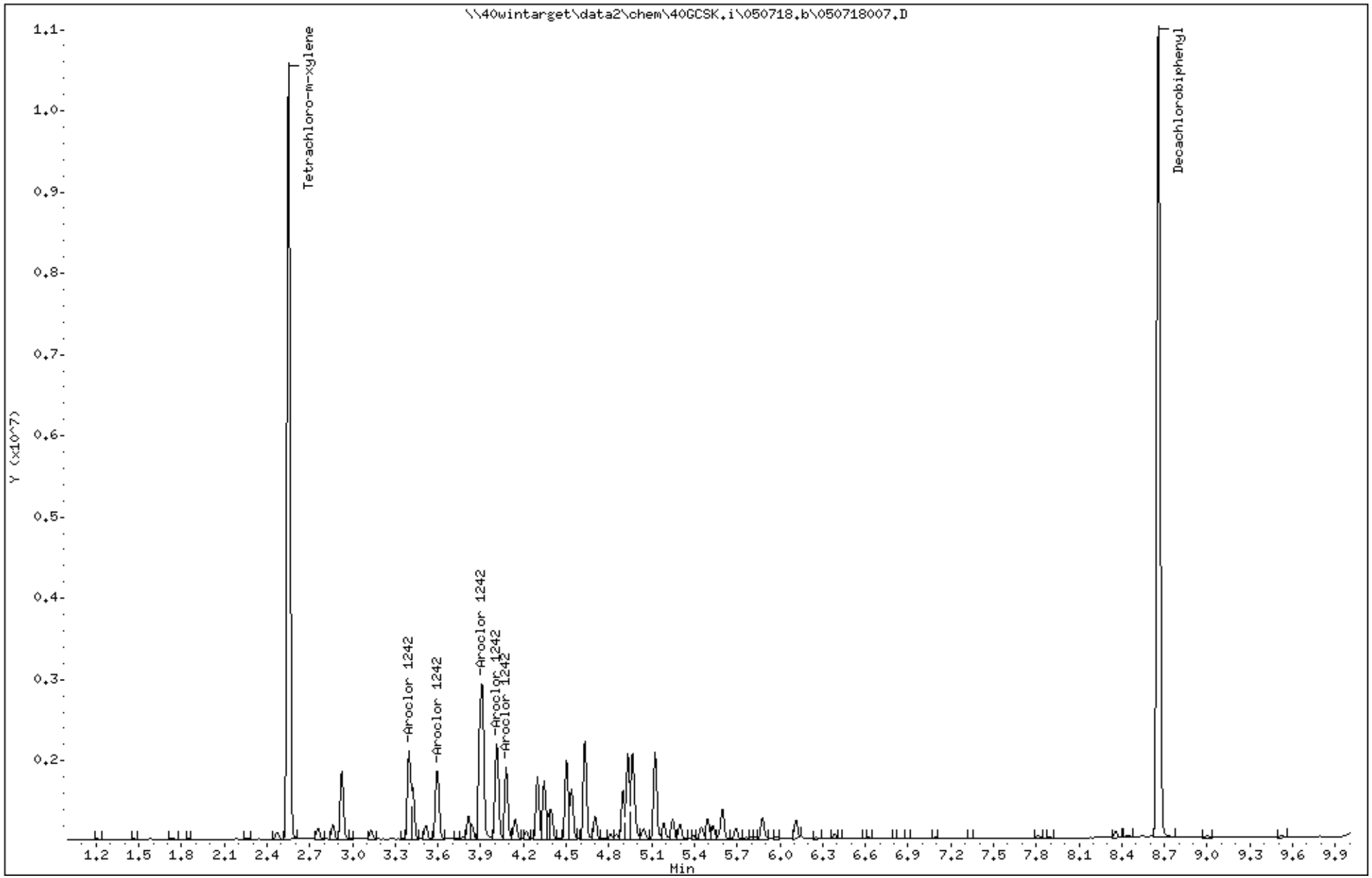
Sample Info: 1681429,

Volume Injected (uL): 1.0

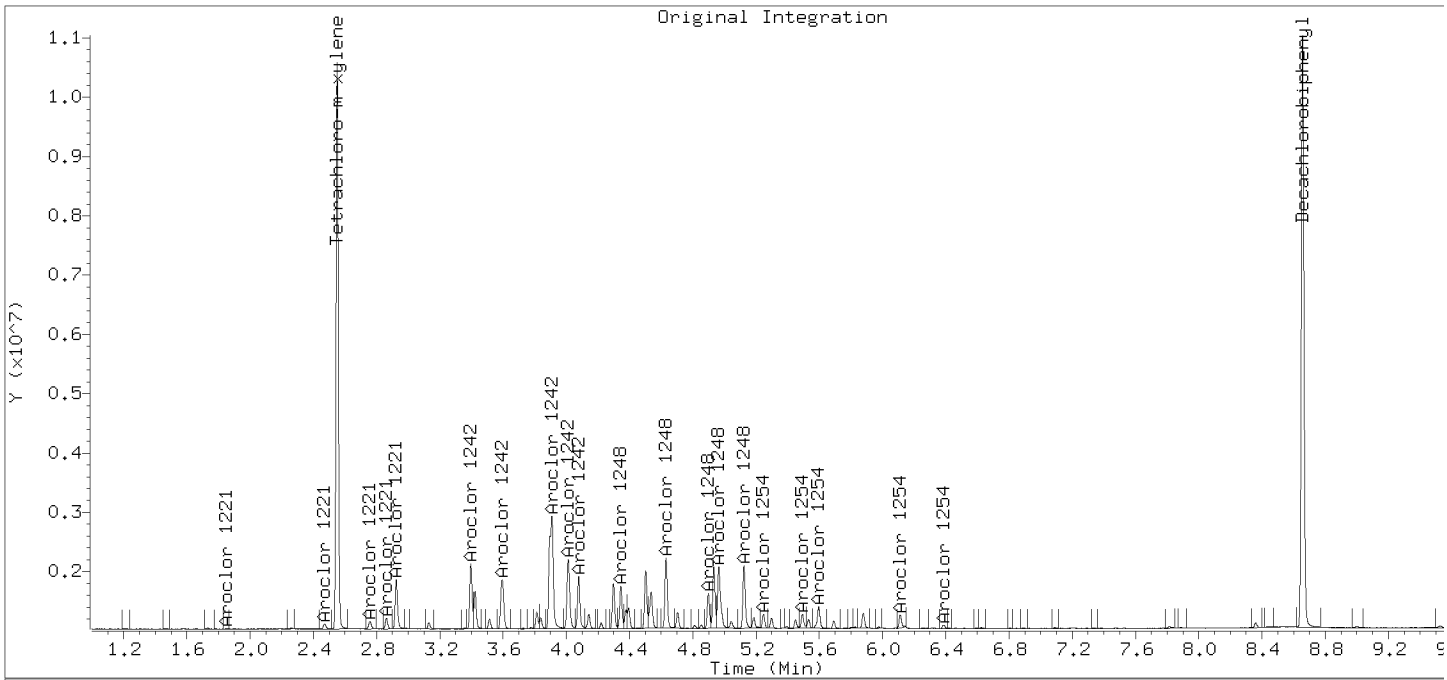
Operator: BLM

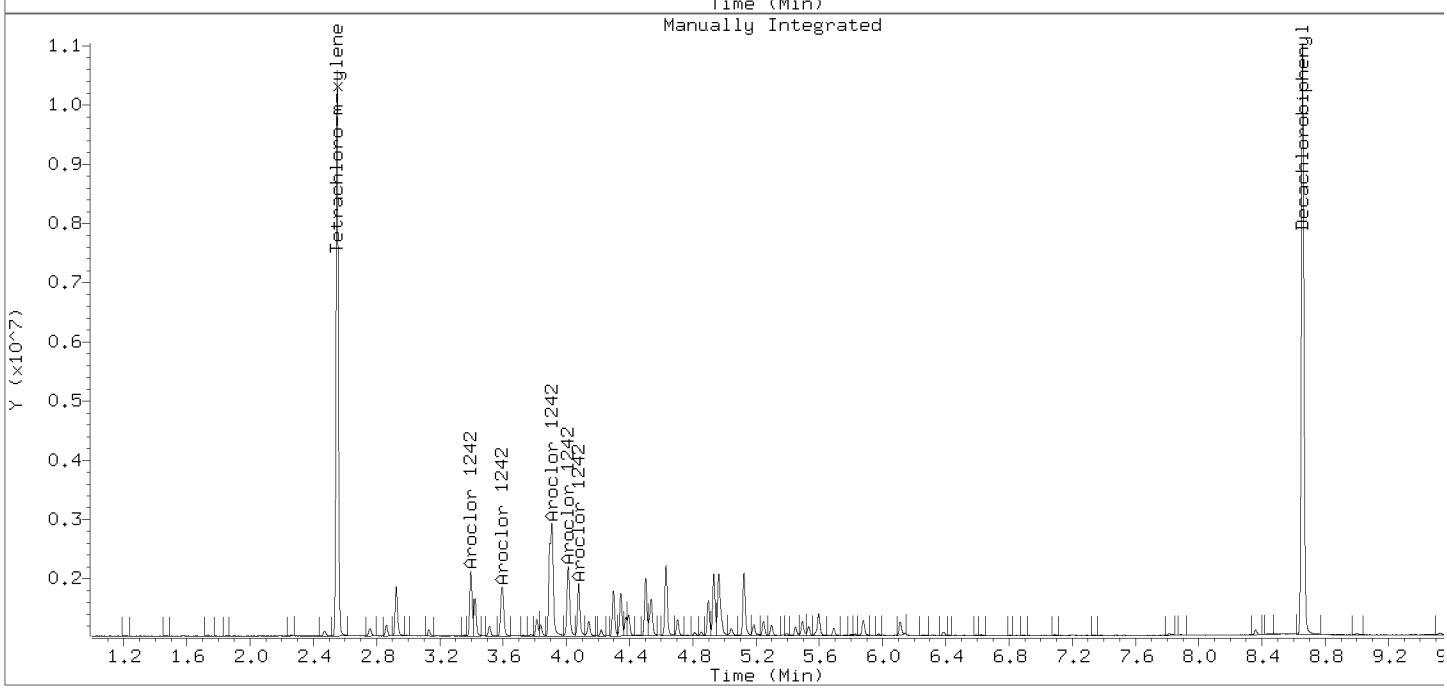
Column phase: ZB-1ms

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: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157948

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681432

Date Analyzed: 05/07/2018 16:45

Lab File ID: 050718.B\050718014.D

Initial wt/vol: 10.0332 Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	631	
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1870	
11097-69-1	PCB-1254 (Aroclor 1254)	805	
11096-82-5	PCB-1260 (Aroclor 1260)	196	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718014.D
Lab Smp Id: 1681432 Client Smp ID: ND2-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681432 x10,
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: 14 QC Sample: FIELDDUP
Dil Factor: 10.00000
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	10.000	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	10.033	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.850	17553	12338	0.703	0.04		1 Aroclor 1221	BA
2.476	292936	241410	0.824	0.81		1 Aroclor 1221	BA
2.550	1158156	1159640	1.001	3.22	$	2 Tetrachloro-m-xylene	BA
2.755	20023	14197	0.709	0.05		1 Aroclor 1221	BA
2.863	25222	21683	0.860	0.07		1 Aroclor 1221	BA
2.924	76041	63384	0.834	0.21		1 Aroclor 1221	BA
3.093	12107	13709	1.132	0.03			
3.130	475843	463356	0.974	1.32			
3.395	160604	160437	0.999	0.44			
3.423	204740	192109	0.938	0.56			
3.513	675016	648342	0.960	1.87			
3.599	385544	359504	0.932	1.07			
3.726	90833	80184	0.883	0.25			
3.813	356504	334028	0.937	0.99			
3.838	108677	93491	0.860	0.30			
3.896	357113	452556	1.267	0.99			
3.908	665873	556111	0.835	1.85			
4.022	502648	440904	0.877	1.39			
4.076	374670	321227	0.857	1.04			
4.143	156346	124770	0.798	0.43			
4.221	66492	50065	0.753	0.18			
4.254	5368	6332	1.180	0.01			
4.297	1726005	1548716	0.897	4.80			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.344	1742313	1633920	0.938	4.84	6 Aroclor 1248
4.375	2280623	1937592	0.850	6.83	
4.433	43198	27636	0.640	0.12	
4.502	638241	618292	0.969	1.77	
4.538	614467	544161	0.886	1.70	
4.631	1182559	1087690	0.920	3.29	6 Aroclor 1248
4.673	165509	144969	0.876	0.46	
4.703	154609	131138	0.848	0.43	
4.765	104928	87797	0.837	0.29	
4.820	142315	109045	0.766	0.39	
4.854	228298	205414	0.900	0.63	
4.898	771419	721729	0.936	2.14	6 Aroclor 1248
4.933	485365	440527	0.908	1.35	
4.965	1735469	981318	0.565	4.82	6 Aroclor 1248
5.042	385346	324147	0.841	1.07	
5.123	664482	597336	0.899	1.84	6 Aroclor 1248
5.186	673874	610472	0.906	1.87	
5.246	1057446	923451	0.873	2.94	7 Aroclor 1254
5.297	869292	768710	0.884	2.41	
5.369	88099	83361	0.946	0.24	
5.394	187092	151591	0.810	0.52	
5.449	314295	281383	0.895	0.87	
5.493	714016	648227	0.908	1.98	7 Aroclor 1254
5.532	468657	407240	0.869	1.30	
5.568	110821	99381	0.897	0.30	
5.596	1437856	1265877	0.880	4.00	7 Aroclor 1254
5.660	53747	45664	0.850	0.14	
5.691	200591	172537	0.860	0.55	
5.760	257939	240856	0.934	0.71	
5.796	186386	143302	0.769	0.51	
5.828	251416	195228	0.777	0.69	
5.876	1602669	1249837	0.780	4.45	
5.972	158720	119662	0.754	0.44	
6.016	112407	80522	0.716	0.31	
6.079	236141	213656	0.905	0.65	
6.113	712120	625067	0.878	1.98	7 Aroclor 1254
6.140	906196	785706	0.867	2.52	
6.254	210787	139556	0.662	0.58	
6.311	74339	81760	1.100	0.20	
6.326	123790	95676	0.773	0.34	
6.386	1212184	1022194	0.843	3.37	7 Aroclor 1254
6.419	132957	119461	0.898	0.36	
6.460	68120	53287	0.782	0.18	
6.517	103119	79268	0.769	0.28	
6.595	249612	237327	0.951	0.69	
6.622	256768	234641	0.914	0.71	
6.644	87553	87262	0.997	0.24	
6.692	49635	40816	0.822	0.13	
6.744	23041	20466	0.888	0.06	
6.805	128423	112151	0.873	0.35	
6.845	123076	111493	0.906	0.34	
6.887	179467	161391	0.899	0.49	
6.926	74288	52965	0.713	0.20	
6.993	19428	16207	0.834	0.05	
7.029	78270	64171	0.820	0.21	
7.089	357325	331929	0.929	0.99	8 Aroclor 1260
7.120	40173	34455	0.858	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.206	43793	22964	0.524	0.12	
7.336	215931	185795	0.860	0.60	8 Aroclor 1260
7.367	87206	61454	0.705	0.24	
7.420	34608	22139	0.640	0.09	
7.474	113135	107155	0.947	0.31	
7.528	171613	130173	0.759	0.47	8 Aroclor 1260
7.636	24906	17725	0.712	0.06	
7.659	15534	12443	0.801	0.04	
7.697	27909	13456	0.482	0.07	
7.745	17665	18354	1.039	0.04	
7.779	54292	47980	0.884	0.15	
7.815	45353	30808	0.679	0.12	
7.984	122366	106749	0.872	0.34	8 Aroclor 1260
8.360	83946	79813	0.951	0.23	
8.441	11214	9555	0.852	0.03	
8.656	1363174	1190884	0.874	3.79	$ 12 Decachlorobiphenyl
8.999	25713	15184	0.591	0.07	
9.253	17197	14745	0.857	0.04	
9.523	17700	14203	0.802	0.04	
	35938843	31260989		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718014.D
Lab Smp Id: 1681432 Client Smp ID: ND2-170828-01-GOSH-
Inj Date : 07-MAY-2018 16:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681432 x10,
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: 14 QC Sample: FIELDDUP
Dil Factor: 10.00000
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	10.000	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	10.033	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	17552	0.01772	88	0.00- 20.00	100.00(M)	BA
2.476	2.471	0.005	292935	0.55566	2800	0.00- 20.00	1668.96	BA
2.755	2.758	-0.003	20023	0.01444	72	0.00- 20.00	114.08	BA
2.863	2.860	0.003	25222	0.02286	110	0.00- 20.00	143.70	BA
2.924	2.923	0.001	76041	0.02275	110	0.00- 20.00	433.23	BA
Average of Peak Concentrations =					630			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	1158155	0.00962	48		(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	1742313	0.73042	3600	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1182559	0.27842	1400	0.00- 20.00	67.87	BA
4.898	4.898	0.000	771419	0.37870	1900	0.00- 20.00	44.28	BA
4.964	4.963	0.001	1735469	0.31684	1600	0.00- 20.00	99.61	BA
5.123	5.123	0.000	664482	0.17564	880	0.00- 20.00	38.14	BA
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1057445	0.18750	930	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	714015	0.15310	760	0.00- 20.00	67.52	BA
5.595	5.596	-0.001	1437855	0.16793	840	0.00- 20.00	135.97	BA
6.112	6.113	-0.001	712120	0.13404	670	0.00- 20.00	67.34	BA
6.386	6.387	-0.001	1212183	0.16557	820	0.00- 20.00	114.63	BA
Average of Peak Concentrations =					800			
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	357324	0.03036	150	0.00- 20.00	29.48	BA
7.336	7.338	-0.002	215930	0.03818	190	0.00- 20.00	17.81	BA
7.527	7.529	-0.002	171613	0.05020	250	0.00- 20.00	14.16	BA
7.983	7.987	-0.004	122366	0.03864	190	0.00- 20.00	10.09	BA
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	1363173	0.01023	51			

QC Flag Legend

M - Compound response manually integrated.

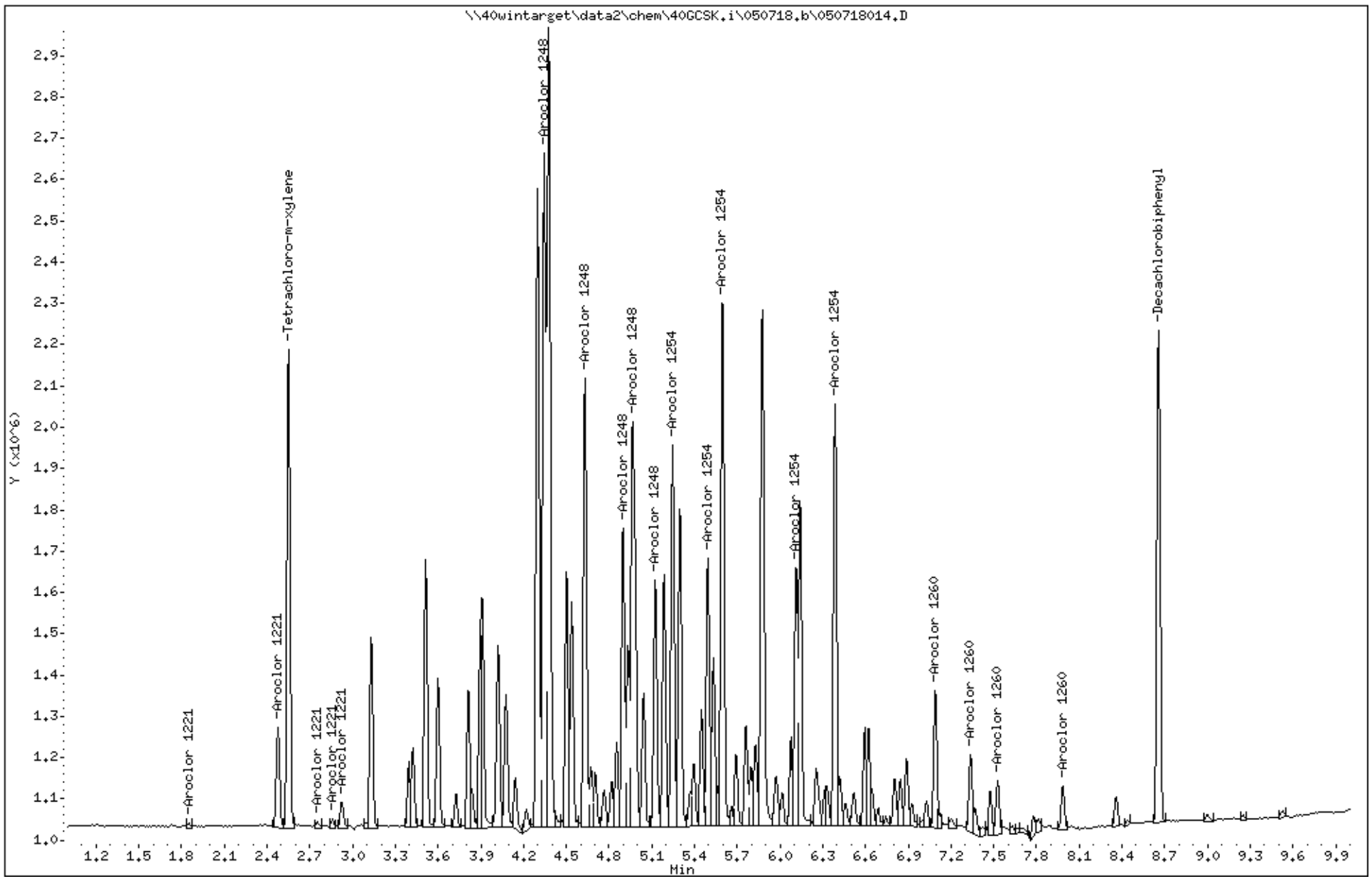
Review Codes Legend

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

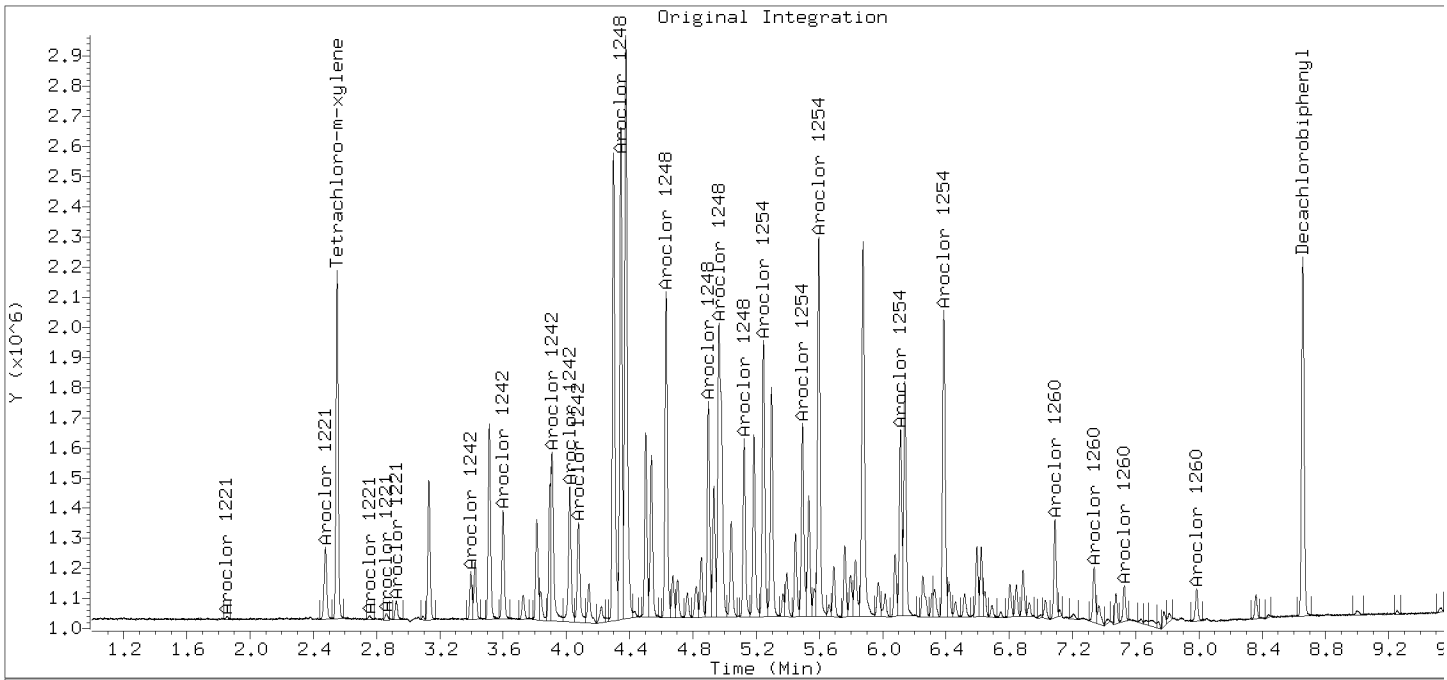
:

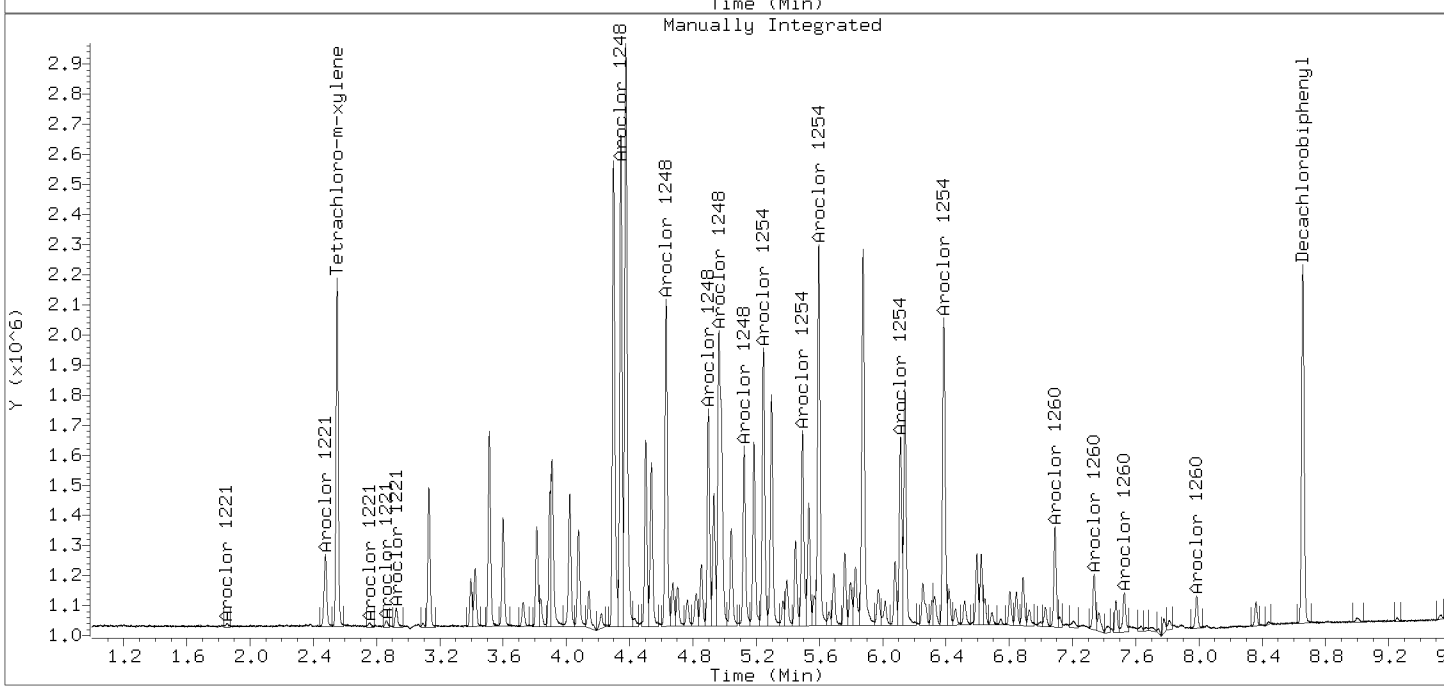
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718014.D
Date : 07-MAY-2018 16:45
Client ID: ND2-170828-01-GOSH-
Sample Info: 1681432 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 16:45 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681432





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	160604	0	
Aroclor 1016	160604	0	
Aroclor 1016	160604	0	
Aroclor 1016	160604	0	
Aroclor 1016	160604	0	
Aroclor 1221	13117	17552	BA
Aroclor 1221	13117	17552	BA
Aroclor 1221	13117	17552	BA
Aroclor 1221	13117	17552	BA
Aroclor 1221	13117	17552	BA
Aroclor 1232	71864	0	
Aroclor 1232	71864	0	
Aroclor 1232	71864	0	
Aroclor 1232	71864	0	

Aroclor 1232	71864	0	
Aroclor 1242	160604	0	
Aroclor 1242	160604	0	
Aroclor 1242	160604	0	
Aroclor 1242	160604	0	
Aroclor 1242	160604	0	
Aroclor 1248	1739741	1742313	BA
Aroclor 1248	1739741	1742313	BA
Aroclor 1248	1739741	1742313	BA
Aroclor 1248	1739741	1742313	BA
Aroclor 1248	1739741	1742313	BA
Aroclor 1254	1033964	1057445	BA
Aroclor 1254	1033964	1057445	BA
Aroclor 1254	1033964	1057445	BA
Aroclor 1254	1033964	1057445	BA
Aroclor 1254	1033964	1057445	BA
Aroclor 1260	1201488	0	BA
Aroclor 1260	1201488	0	BA
Aroclor 1260	1201488	0	BA
Aroclor 1260	1201488	0	BA
Aroclor 1260	1201488	0	BA
Tetrachloro-m-xylene	1144527	1158155	BA
Decachlorobiphenyl	1363173	1363173	

==========

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.: 40157948

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

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

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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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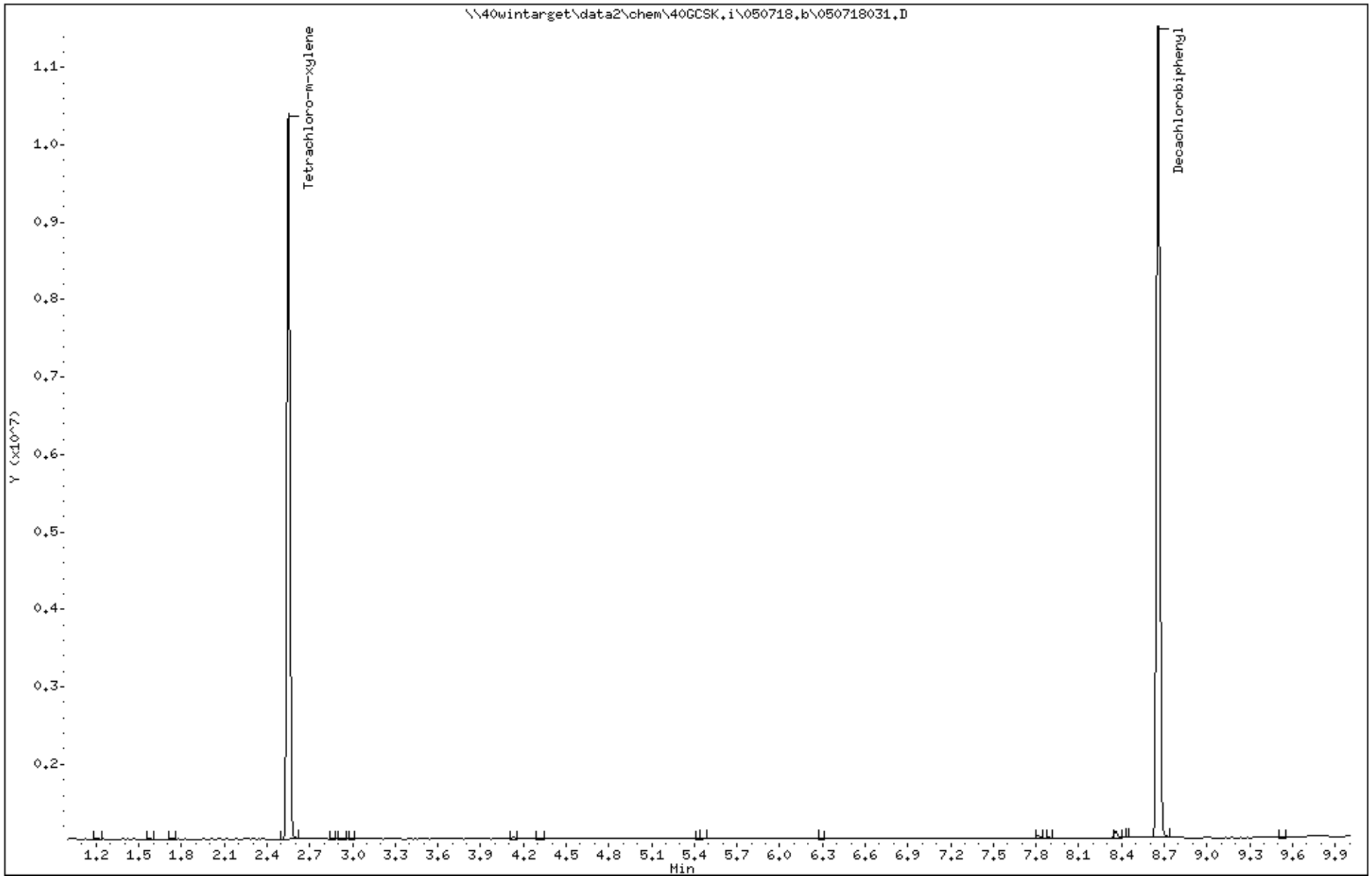
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	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.: 40157948

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

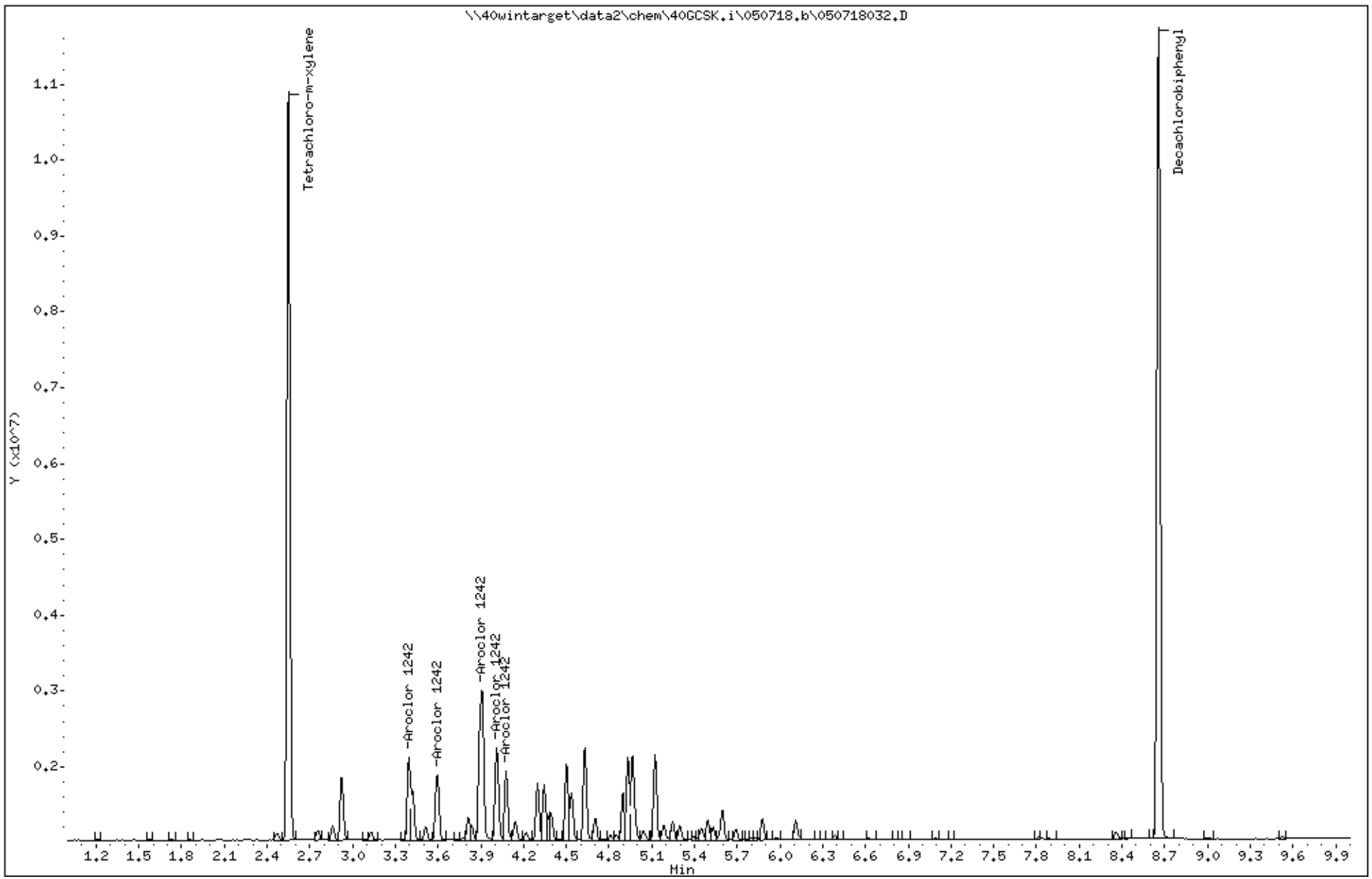
M - Compound response manually integrated.

Review Codes Legend

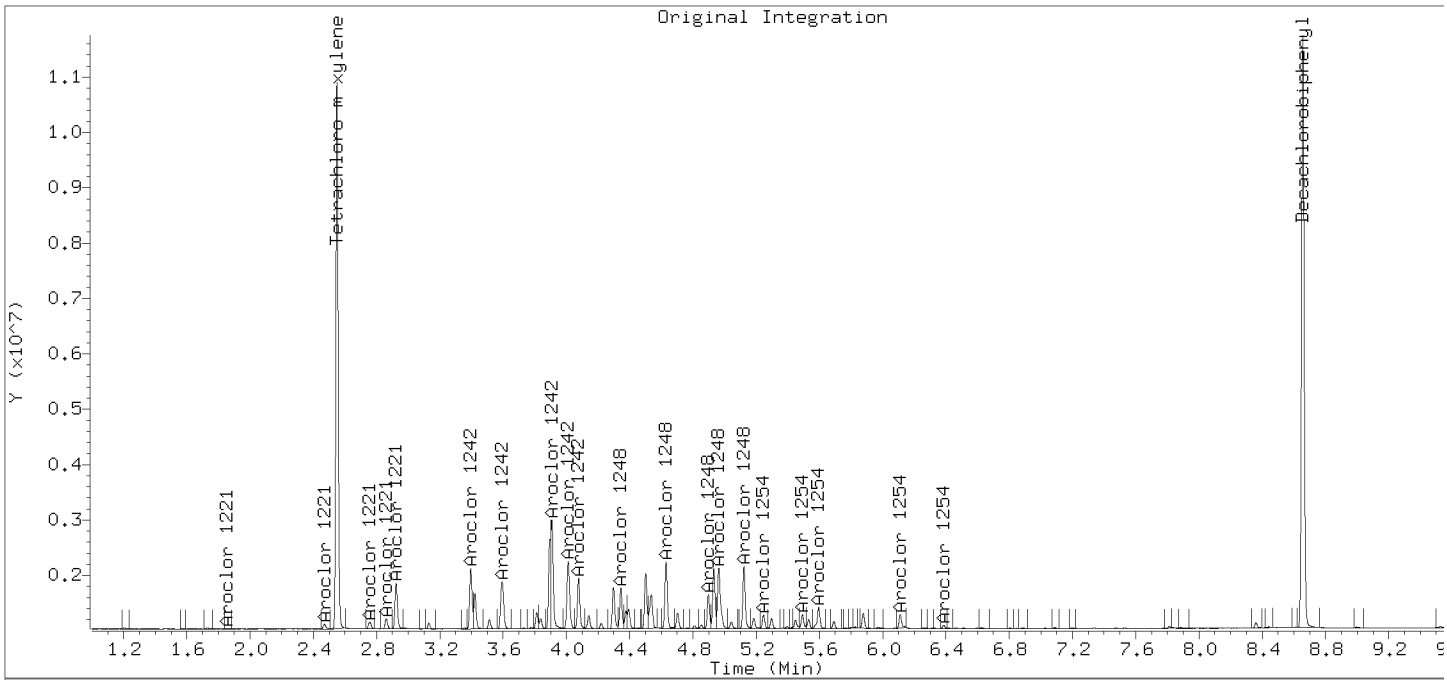
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

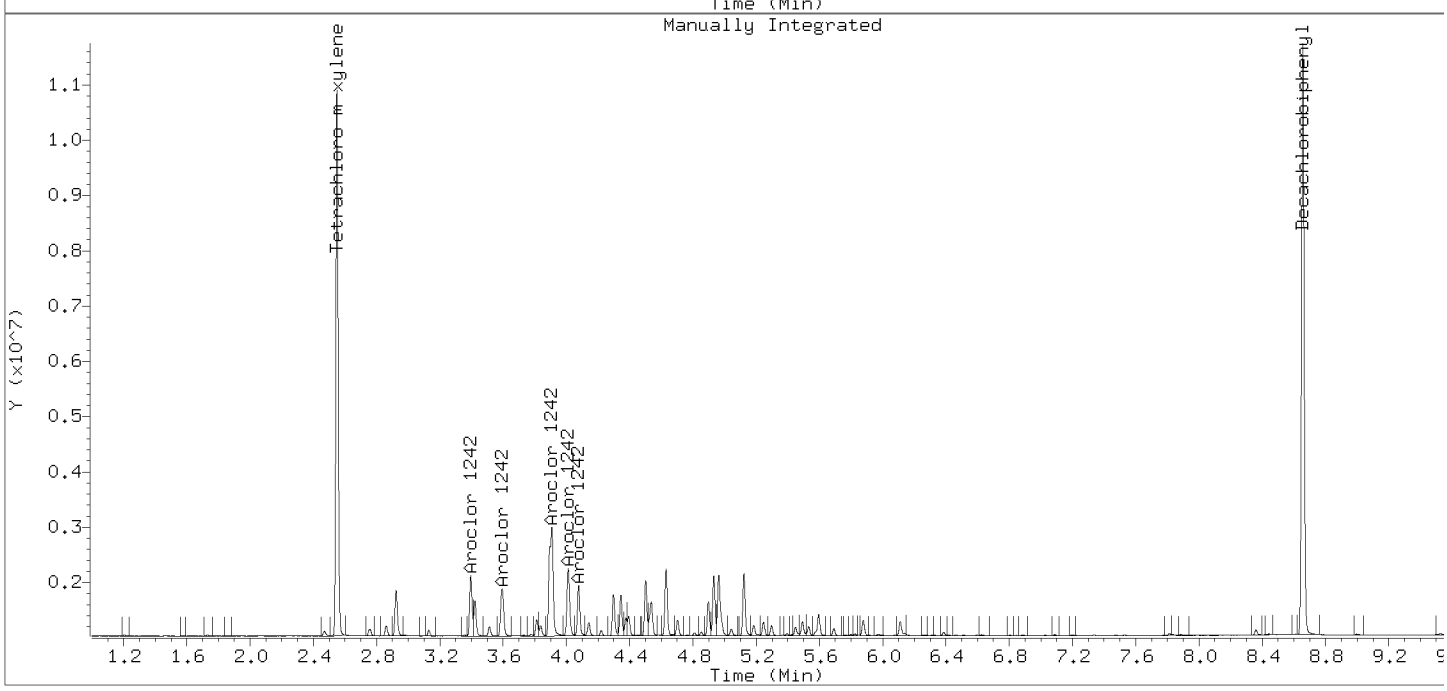
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Date : 07-MAY-2018 21:30
Client ID: MBLCS
Sample Info: 1681907,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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	

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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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157948
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 1681908
Date Analyzed: 05/07/2018 22:33
Lab File ID: 050718.B\050718036.D
Initial wt/vol: 5.4335 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)	<105	U
11104-28-2	PCB-1221 (Aroclor 1221)	<105	U
11141-16-5	PCB-1232 (Aroclor 1232)	<105	U
53469-21-9	PCB-1242 (Aroclor 1242)	649	
12672-29-6	PCB-1248 (Aroclor 1248)	1410	
11097-69-1	PCB-1254 (Aroclor 1254)	676	
11096-82-5	PCB-1260 (Aroclor 1260)	119	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718036.D
Lab Smp Id: 1681908 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681908 x5,
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: 36 QC Sample: MS
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	5.434	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.474	52491	37378	0.712	0.16		
2.550	2117172	2190547	1.035	6.72	$ 2 Tetrachloro-m-xylene	
2.758	42618	33509	0.786	0.13		
2.862	51300	47757	0.931	0.16		
2.924	225387	203485	0.903	0.71		
3.093	29651	31602	1.066	0.09		
3.131	37586	38934	1.036	0.11		
3.396	286421	269230	0.940	0.90	3 Aroclor 1242	BA
3.422	173578	160985	0.927	0.55		
3.513	60342	50364	0.835	0.19		
3.593	284901	207772	0.729	0.90	3 Aroclor 1242	BA
3.723	19837	16047	0.809	0.06		
3.813	180172	175212	0.972	0.57		
3.836	96171	86562	0.900	0.30		
3.909	1442851	822590	0.570	4.58	3 Aroclor 1242	BA
4.012	372939	292738	0.785	1.18	3 Aroclor 1242	BA
4.078	320286	286024	0.893	1.01	3 Aroclor 1242	BA
4.142	111567	97171	0.871	0.35		
4.220	27934	25509	0.913	0.08		
4.297	1059205	1007224	0.951	3.36		
4.345	1026764	993858	0.968	3.25	6 Aroclor 1248	BA
4.376	886826	729609	0.823	2.81		
4.502	710251	682947	0.962	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.537	532912	439843	0.825	1.69	
4.631	893485	853783	0.956	2.83	6 Aroclor 1248
4.671	66310	55566	0.838	0.21	
4.703	174139	154292	0.886	0.55	
4.764	60784	50724	0.834	0.19	
4.817	91385	58404	0.639	0.29	
4.853	147088	135361	0.920	0.46	
4.897	700683	675184	0.964	2.22	6 Aroclor 1248
4.932	793658	763601	0.962	2.51	
4.964	1660949	1017719	0.613	5.27	6 Aroclor 1248
5.043	274228	229575	0.837	0.87	
5.123	906295	839125	0.926	2.87	6 Aroclor 1248
5.186	480214	428962	0.893	1.52	
5.247	897828	797459	0.888	2.85	7 Aroclor 1254
5.297	629710	570711	0.906	1.99	
5.369	49518	49619	1.002	0.15	
5.395	155021	122788	0.792	0.49	
5.449	326106	302209	0.927	1.03	
5.493	669634	595729	0.890	2.12	7 Aroclor 1254
5.534	518462	458918	0.885	1.64	
5.570	88403	85606	0.968	0.28	
5.596	1195759	1057174	0.884	3.79	7 Aroclor 1254
5.664	36639	27961	0.763	0.11	
5.691	195422	168712	0.863	0.62	
5.760	197195	182729	0.927	0.62	
5.798	160934	123301	0.766	0.51	
5.827	180822	144464	0.799	0.57	
5.875	1412924	1094647	0.775	4.48	
5.973	134683	101189	0.751	0.42	
6.015	88650	64184	0.724	0.28	
6.079	173766	159655	0.919	0.55	
6.112	773252	691912	0.895	2.45	7 Aroclor 1254
6.141	712059	618962	0.869	2.26	
6.255	199085	146402	0.735	0.63	
6.313	155229	85566	0.551	0.49	
6.386	1074921	919540	0.855	3.41	7 Aroclor 1254
6.420	137550	124373	0.904	0.43	
6.462	71200	56269	0.790	0.22	
6.517	92259	69092	0.749	0.29	
6.596	197169	188981	0.958	0.62	
6.623	229251	207331	0.904	0.72	
6.644	73039	67836	0.929	0.23	
6.690	44632	37255	0.835	0.14	
6.747	20674	16627	0.804	0.06	
6.806	98562	85430	0.867	0.31	
6.845	96239	87638	0.911	0.30	
6.887	172475	153939	0.893	0.54	
6.926	69120	47437	0.686	0.21	
7.030	105893	90146	0.851	0.33	
7.089	244009	217073	0.890	0.77	8 Aroclor 1260
7.208	28588	17259	0.604	0.09	
7.338	145826	128871	0.884	0.46	8 Aroclor 1260
7.367	75376	52829	0.701	0.23	
7.419	29090	20549	0.706	0.09	
7.476	73220	69181	0.945	0.23	
7.527	126034	79029	0.627	0.40	8 Aroclor 1260
7.633	19702	13076	0.664	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.666	12909	11912	0.923	0.04	
7.706	14778	9991	0.676	0.04	
7.747	23186	27420	1.183	0.07	
7.780	42585	36497	0.857	0.13	
7.810	45953	24098	0.524	0.14	
7.897	38425	20463	0.533	0.12	
7.984	62776	54748	0.872	0.19	8 Aroclor 1260
8.360	56777	50360	0.887	0.18	
8.656	2597596	2254790	0.868	8.62	$ 12 Decachlorobiphenyl
9.527	19823	12956	0.654	0.06	
9.804	12984	5868	0.452	0.04	
	31502099	27097954		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718036.D
Lab Smp Id: 1681908 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681908 x5,
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: 36 QC Sample: MS
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	5.434	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	2117172	0.01758	81			
3 Aroclor 1242					CAS #: 53469-21-9			
3.396	3.396	0.000	286420	0.11834	540	0.00- 20.00	100.00(RM)	BA
3.593	3.592	0.001	284900	0.11576	530	0.00- 20.00	99.47	BA
3.908	3.909	-0.001	1442850	0.19886	910	0.00- 20.00	503.75	BA
4.011	4.011	0.000	372939	0.11968	550	0.00- 20.00	130.21	BA
4.078	4.078	0.000	320286	0.15301	700	0.00- 20.00	111.82	BA
Average of Peak Concentrations =					650			

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	1026763	0.43045	2000	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	893484	0.21036	970	0.00- 20.00	87.02	BA
4.897	4.898	-0.001	700683	0.34397	1600	0.00- 20.00	68.24	BA
4.964	4.963	0.001	1660948	0.30324	1400	0.00- 20.00	161.77	BA
5.123	5.123	0.000	906295	0.23955	1100	0.00- 20.00	88.27	BA
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	897828	0.15920	730	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	669634	0.14358	660	0.00- 20.00	74.58	CO
5.595	5.596	-0.001	1195759	0.13966	640	0.00- 20.00	133.18	CO
6.111	6.113	-0.002	773252	0.14554	670	0.00- 20.00	86.12	CO
6.385	6.387	-0.002	1074921	0.14683	680	0.00- 20.00	119.72	CO
Average of Peak Concentrations =					680			
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	244008	0.02073	95	0.00- 20.00	22.70	BA
7.337	7.338	-0.001	145826	0.02578	120	0.00- 20.00	13.57	BA
7.527	7.529	-0.002	126033	0.03686	170	0.00- 20.00	11.72	BA
7.984	7.987	-0.003	62775	0.01982	91	0.00- 20.00	5.84	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2597596	0.01950	90			

QC Flag Legend

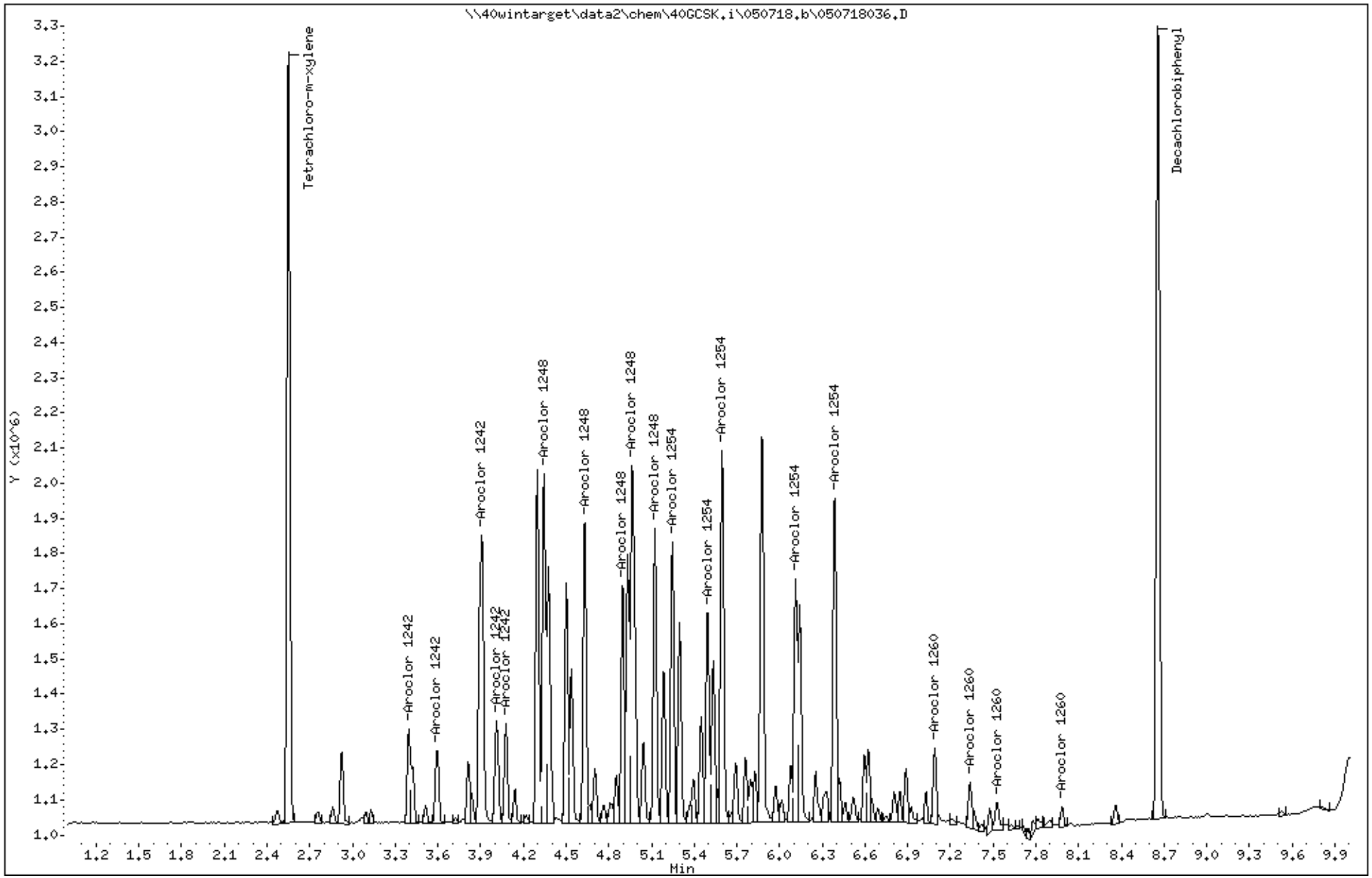
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

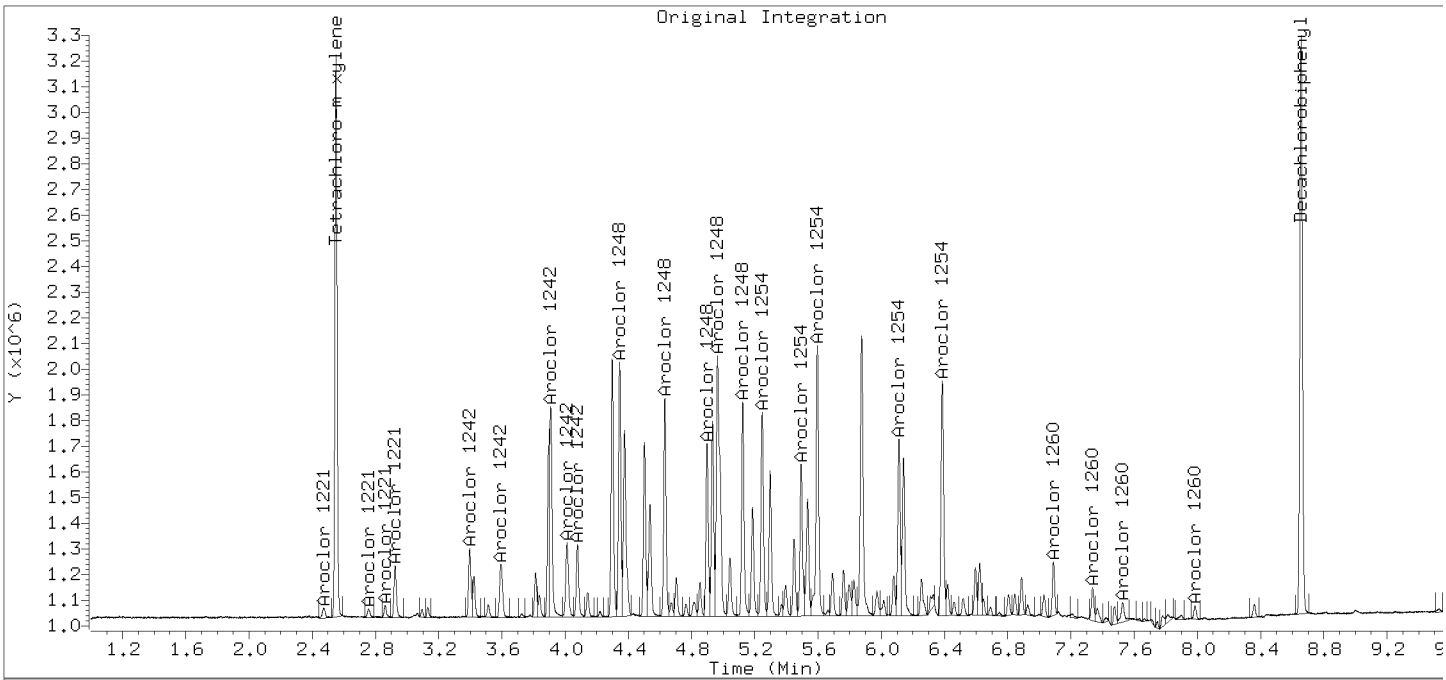
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

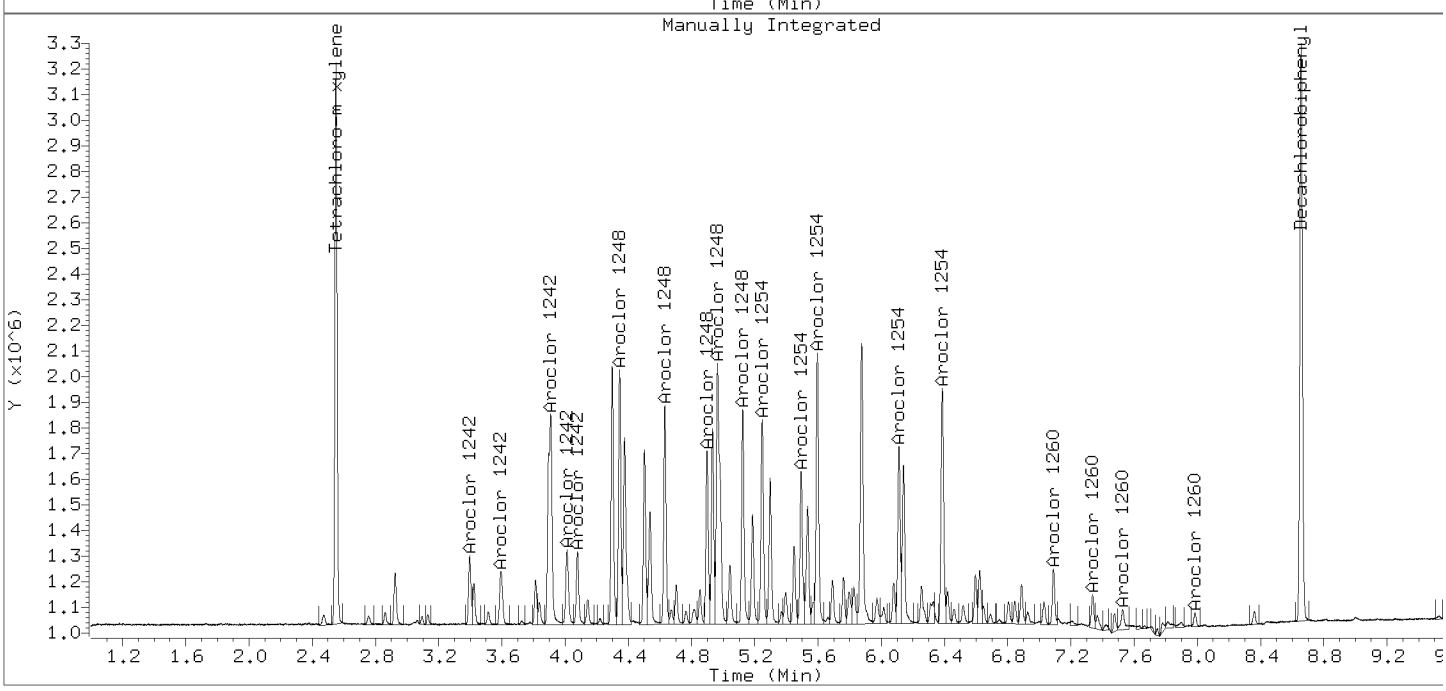
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718036.D
Date : 07-MAY-2018 22:33
Client ID: TD2-170828-01-SPSH-
Sample Info: 1681908 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 22:33 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681908





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	281718	0	
Aroclor 1016	281718	0	
Aroclor 1016	281718	0	
Aroclor 1016	281718	0	
Aroclor 1016	281718	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	225386	0	
Aroclor 1232	225386	0	
Aroclor 1232	225386	0	
Aroclor 1232	225386	0	

Aroclor 1232	225386	0	
Aroclor 1242	281718	286420	BA
Aroclor 1242	281718	286420	BA
Aroclor 1242	281718	286420	BA
Aroclor 1242	281718	286420	BA
Aroclor 1242	281718	286420	BA
Aroclor 1248	1016348	1026763	BA
Aroclor 1248	1016348	1026763	BA
Aroclor 1248	1016348	1026763	BA
Aroclor 1248	1016348	1026763	BA
Aroclor 1248	1016348	1026763	BA
Aroclor 1254	886348	897828	CO
Aroclor 1254	886348	897828	CO
Aroclor 1254	886348	897828	CO
Aroclor 1254	886348	897828	CO
Aroclor 1254	886348	897828	CO
Aroclor 1260	1063270	0	BA
Aroclor 1260	1063270	0	BA
Aroclor 1260	1063270	0	BA
Aroclor 1260	1063270	0	BA
Aroclor 1260	1063270	0	BA
Tetrachloro-m-xylene	2117172	2117172	
Decachlorobiphenyl	2597596	2597596	

==========

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: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157948

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681909

Date Analyzed: 05/07/2018 22:49

Lab File ID: 050718.B\050718037.D

Initial wt/vol: 8.7067 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)	<65.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<65.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<65.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<65.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	1200	
11097-69-1	PCB-1254 (Aroclor 1254)	694	
11096-82-5	PCB-1260 (Aroclor 1260)	123	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718037.D
Lab Smp Id: 1681909 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681909 x5,
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: 37 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	8.707	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.821	11818	11456	0.969	0.02		
2.477	38205	32413	0.848	0.09		
2.551	2376190	2376109	1.000	5.62	$ 2 Tetrachloro-m-xylene	
3.048	15116	19991	1.322	0.03		
3.065	32938	34159	1.037	0.07		
3.094	57808	58246	1.008	0.13		
3.131	26763	24770	0.926	0.06		
3.512	25799	22114	0.857	0.06		
3.725	23725	21138	0.891	0.05		
3.813	195590	196487	1.005	0.46		
3.838	92029	79424	0.863	0.21		
3.897	420085	526511	1.253	0.99		
3.909	748949	654507	0.874	1.77		
4.006	45599	29007	0.636	0.10		
4.079	182450	160154	0.878	0.43		
4.143	83459	77063	0.923	0.19		
4.298	1522806	1414073	0.929	3.60		
4.345	1501152	1436896	0.957	3.55	6 Aroclor 1248	BA
4.377	1290199	1125177	0.872	3.05		
4.433	30935	21940	0.709	0.07		
4.502	836827	804799	0.962	1.98		
4.537	599182	544691	0.909	1.41		
4.632	1062577	1012351	0.953	2.51	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.673	98765	91117	0.923	0.23	
4.704	173721	151238	0.871	0.41	
4.766	99809	85435	0.856	0.23	
4.818	125190	82394	0.658	0.29	
4.854	224435	209998	0.936	0.53	
4.898	1002391	956632	0.954	2.37	6 Aroclor 1248
4.933	985742	922925	0.936	2.33	
4.964	2344612	1382086	0.589	5.54	6 Aroclor 1248
5.043	418824	352613	0.842	0.99	
5.123	1120947	1048483	0.935	2.65	6 Aroclor 1248
5.186	758563	691990	0.912	1.79	
5.247	1458106	1295019	0.888	3.45	7 Aroclor 1254
5.297	1033332	914796	0.885	2.44	
5.368	82776	75638	0.914	0.19	
5.395	248754	200788	0.807	0.58	
5.449	507765	480018	0.945	1.20	
5.493	1077620	955804	0.887	2.55	7 Aroclor 1254
5.533	847419	753322	0.889	2.00	
5.568	125498	132608	1.057	0.29	
5.596	1934405	1666845	0.862	4.57	7 Aroclor 1254
5.663	52111	44331	0.851	0.12	
5.691	282162	246313	0.873	0.66	
5.761	338621	306227	0.904	0.80	
5.798	266284	209317	0.786	0.63	
5.827	327337	234913	0.718	0.77	
5.876	2300567	1820005	0.791	5.44	
5.972	236249	163119	0.690	0.55	
6.015	133343	106874	0.801	0.31	
6.079	296334	278220	0.939	0.70	
6.112	1274993	1103907	0.866	3.01	7 Aroclor 1254
6.141	1217165	1044447	0.858	2.88	
6.256	345612	245362	0.710	0.81	
6.314	132975	134891	1.014	0.31	
6.330	178882	148311	0.829	0.42	
6.386	1857468	1530962	0.824	4.39	7 Aroclor 1254
6.420	237228	211112	0.890	0.56	
6.460	121271	98135	0.809	0.28	
6.518	154734	119536	0.773	0.36	
6.596	339390	312721	0.921	0.80	
6.624	393373	365838	0.930	0.93	
6.646	124940	116146	0.930	0.29	
6.692	80183	64890	0.809	0.18	
6.746	37449	29256	0.781	0.08	
6.804	166266	153069	0.921	0.39	
6.846	166528	146596	0.880	0.39	
6.888	293287	259150	0.884	0.69	
6.930	101747	82630	0.812	0.24	
6.997	21387	20414	0.955	0.05	
7.029	177080	153389	0.866	0.41	
7.089	405340	367973	0.908	0.95	8 Aroclor 1260
7.122	53195	39644	0.745	0.12	
7.157	14903	15270	1.025	0.03	
7.207	61110	26503	0.434	0.14	
7.337	248012	222044	0.895	0.58	8 Aroclor 1260
7.369	123938	83297	0.672	0.29	
7.421	65030	34398	0.529	0.15	
7.476	120482	113119	0.939	0.28	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.528	208206	136515	0.656	0.49	8 Aroclor 1260
7.633	26446	23269	0.880	0.06	
7.668	26764	17688	0.661	0.06	
7.748	23451	26589	1.134	0.05	
7.779	61485	52663	0.857	0.14	
7.811	47934	35617	0.743	0.11	
7.840	41079	24235	0.590	0.09	
7.899	57272	34188	0.597	0.13	
7.986	103258	84939	0.823	0.24	8 Aroclor 1260
8.360	84334	77093	0.914	0.19	
8.438	18445	15020	0.814	0.04	
8.657	2736003	2389382	0.873	6.93	$ 12 Decachlorobiphenyl
8.810	12132	10183	0.839	0.02	
9.000	42649	28553	0.669	0.10	
9.524	60722	39384	0.649	0.14	
9.778	12740	9116	0.716	0.03	
9.798	38289	20827	0.544	0.09	
9.901	10436	5448	0.522	0.02	
	42247499	36816263		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718037.D
Lab Smp Id: 1681909 Client Smp ID: TD2-170828-01-SPSH-
Inj Date : 07-MAY-2018 22:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681909 x5,
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: 37 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	8.707	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		
2.550	2.549	0.001	2376190	0.01973	57			
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			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1501151	0.62932	1800	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1062577	0.25017	720	0.00- 20.00	70.78	BA
4.897	4.898	-0.001	1002390	0.49208	1400	0.00- 20.00	66.77	BA
4.964	4.963	0.001	2344611	0.42805	1200	0.00- 20.00	156.19	BA
5.123	5.123	0.000	1120946	0.29629	850	0.00- 20.00	74.67	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1458106	0.25855	740	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	1077619	0.23106	660	0.00- 20.00	73.91	BA
5.596	5.596	0.000	1934404	0.22593	650	0.00- 20.00	132.67	BA
6.111	6.113	-0.002	1274992	0.23998	690	0.00- 20.00	87.44	BA
6.386	6.387	-0.001	1857468	0.25371	730	0.00- 20.00	127.39	BA
Average of Peak Concentrations =					690			
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	405340	0.03444	99	0.00- 20.00	21.82	BA
7.336	7.338	-0.002	248012	0.04385	120	0.00- 20.00	13.35	BA
7.527	7.529	-0.002	208206	0.06090	170	0.00- 20.00	11.21	BA
7.985	7.987	-0.002	103258	0.03260	94	0.00- 20.00	5.56	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2736002	0.02054	59			

QC Flag Legend

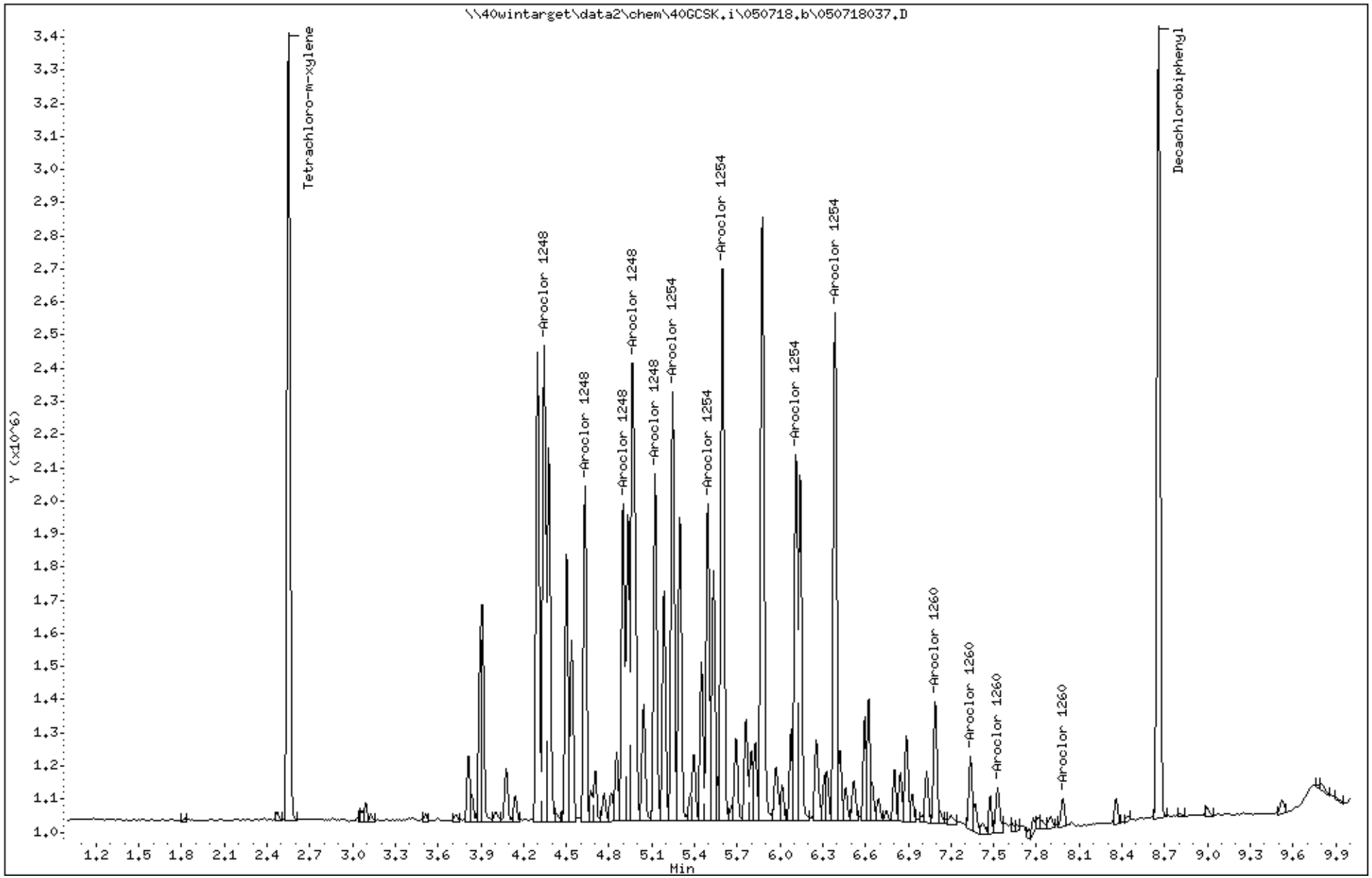
M - Compound response manually integrated.

Review Codes Legend

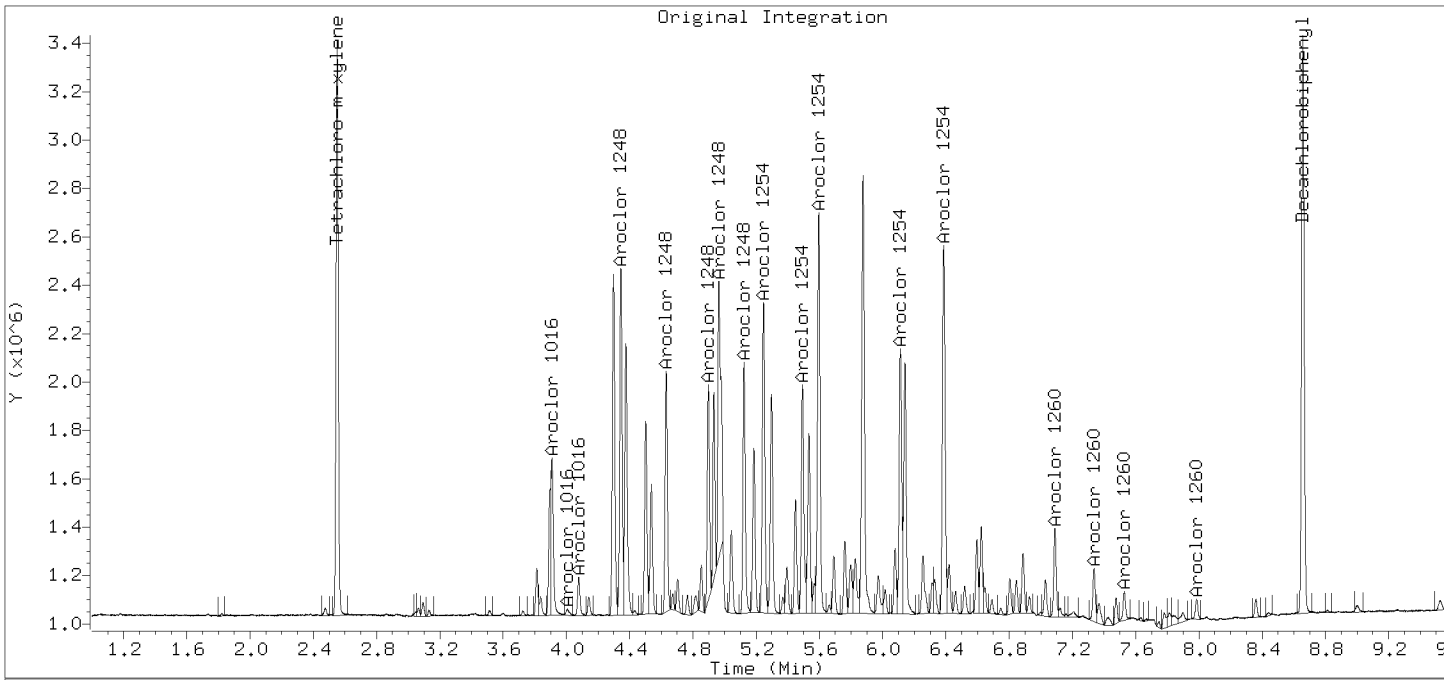
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

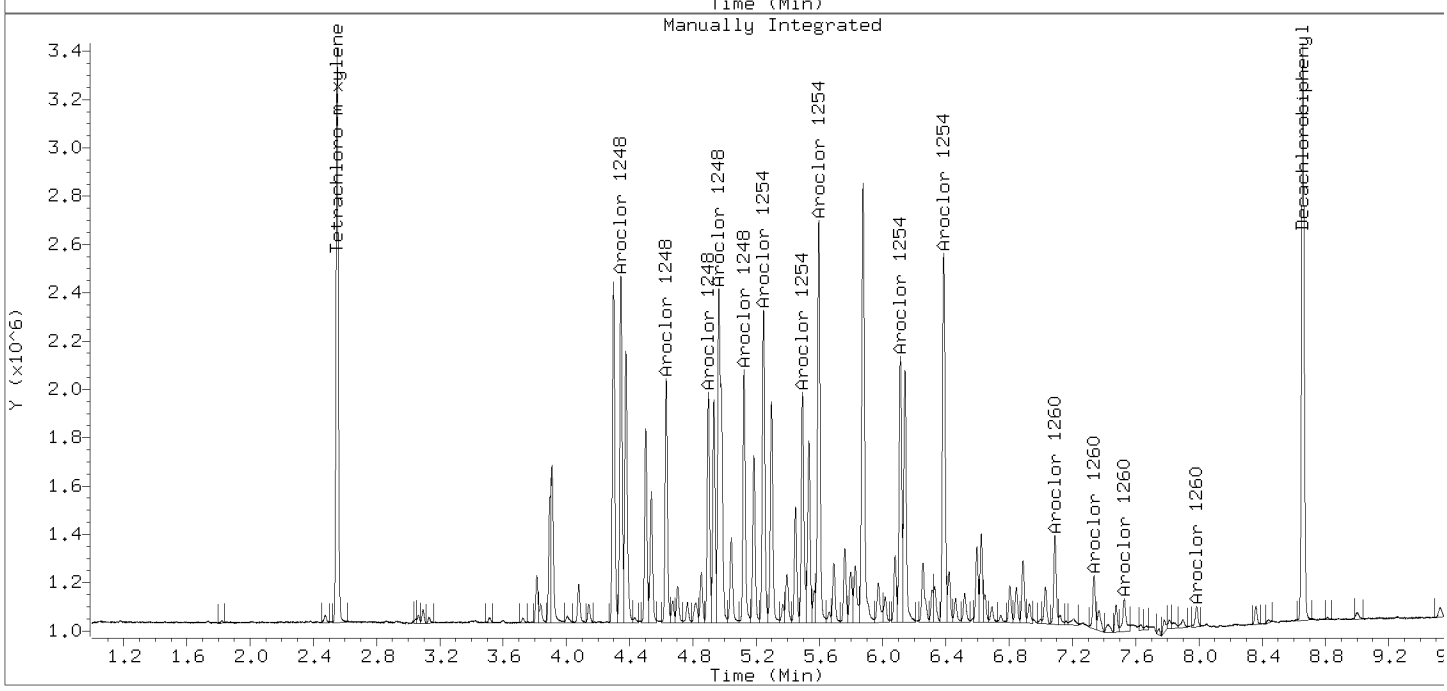
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718037.D
Date : 07-MAY-2018 22:49
Client ID: TD2-170828-01-SPSH-
Sample Info: 1681909 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 22:49 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681909





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	1492187	1501151	BA
Aroclor 1248	1492187	1501151	BA
Aroclor 1248	1492187	1501151	BA
Aroclor 1248	1492187	1501151	BA
Aroclor 1248	1492187	1501151	BA
Aroclor 1254	1419566	1458106	BA
Aroclor 1254	1419566	1458106	BA
Aroclor 1254	1419566	1458106	BA
Aroclor 1254	1419566	1458106	BA
Aroclor 1254	1419566	1458106	BA
Aroclor 1260	1834055	0	BA
Aroclor 1260	1834055	0	BA
Aroclor 1260	1834055	0	BA
Aroclor 1260	1834055	0	BA
Aroclor 1260	1834055	0	BA
Tetrachloro-m-xylene	2376190	2376190	
Decachlorobiphenyl	2736002	2736002	

==========

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.: 40157948

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		
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).

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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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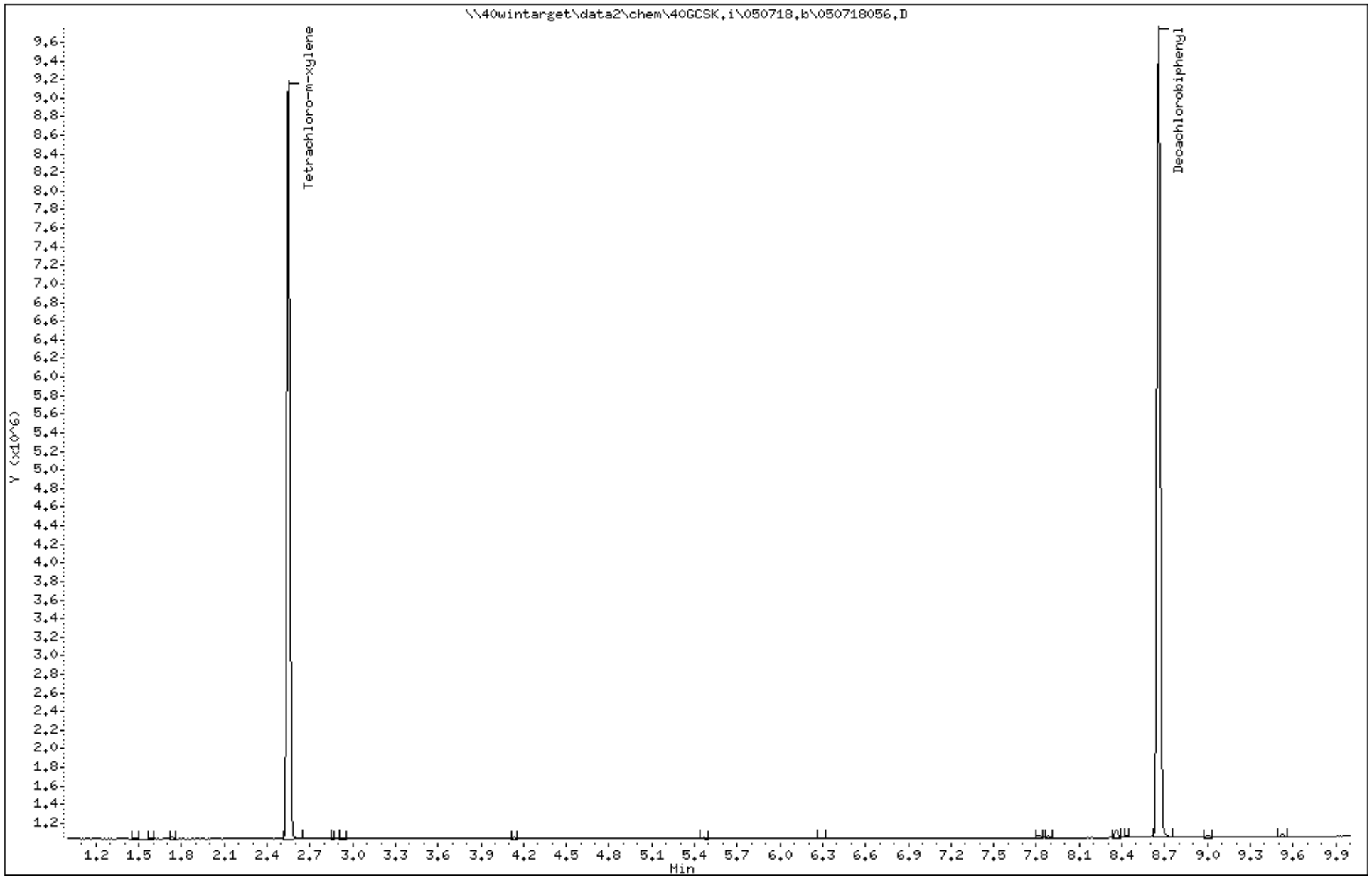
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	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.: 40157948

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.

---

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	11548061	0.08670	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\050718057.D

Date : 08-MAY-2018 04:06

Client ID: MBLCS

Instrument: 40GCSK.i

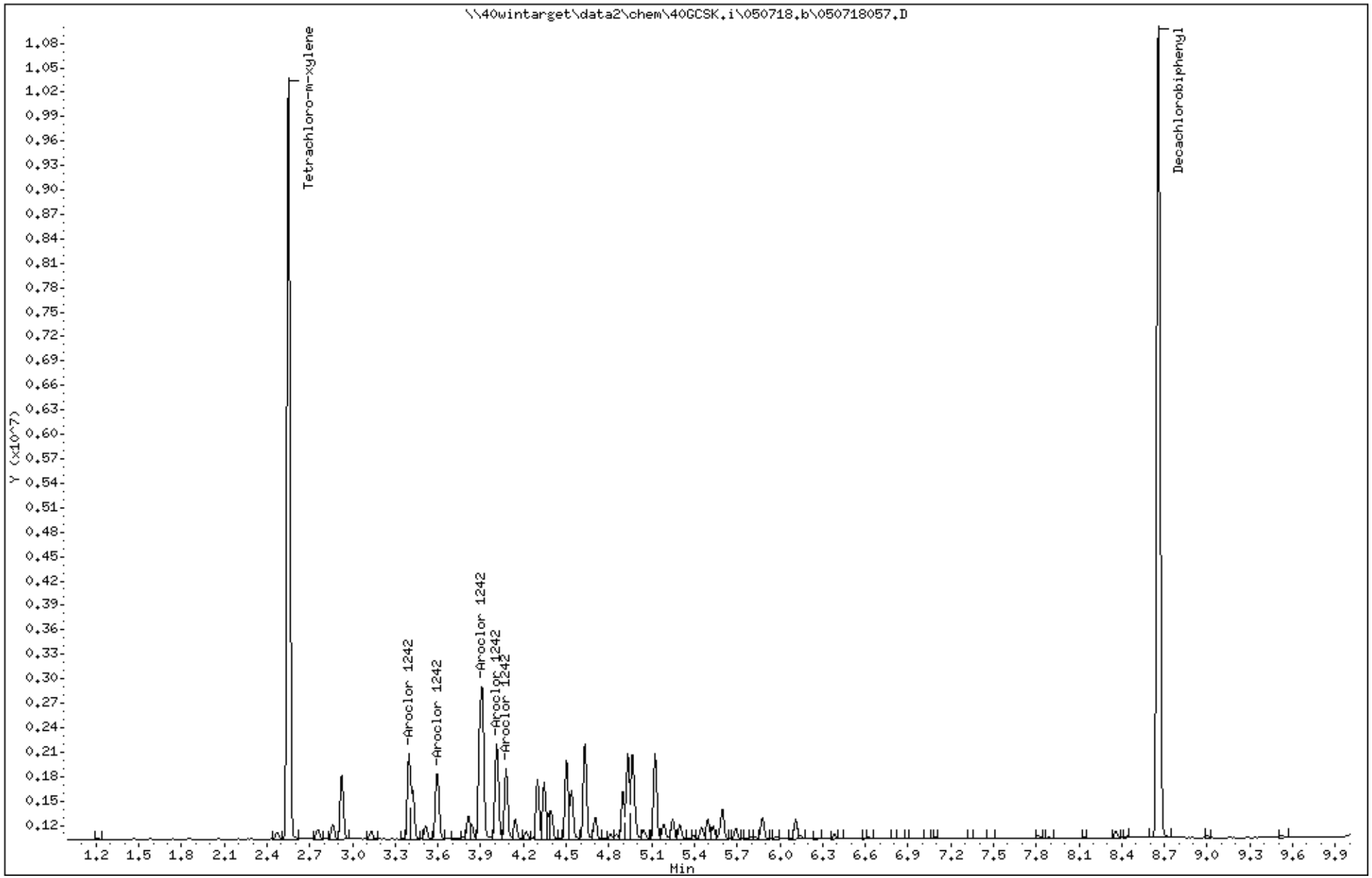
Sample Info: 1682673,

Volume Injected (uL): 1.0

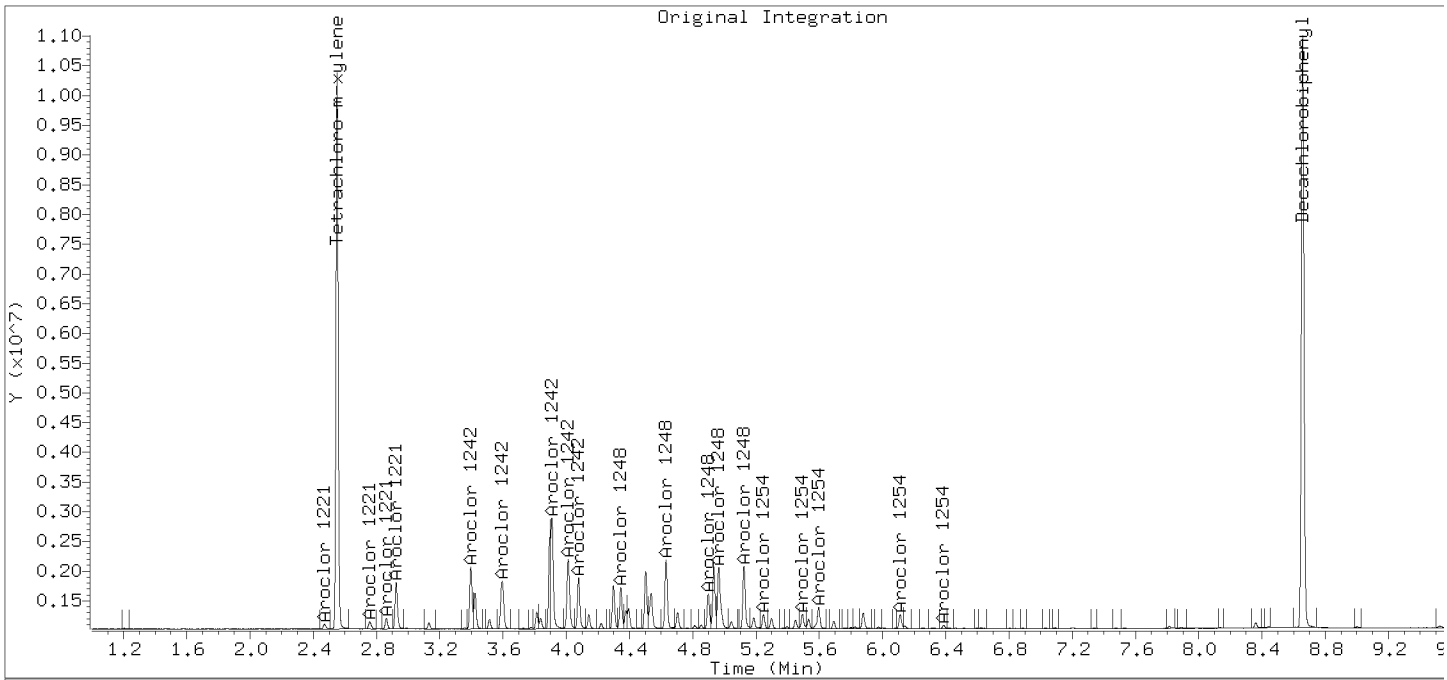
Operator: BLM

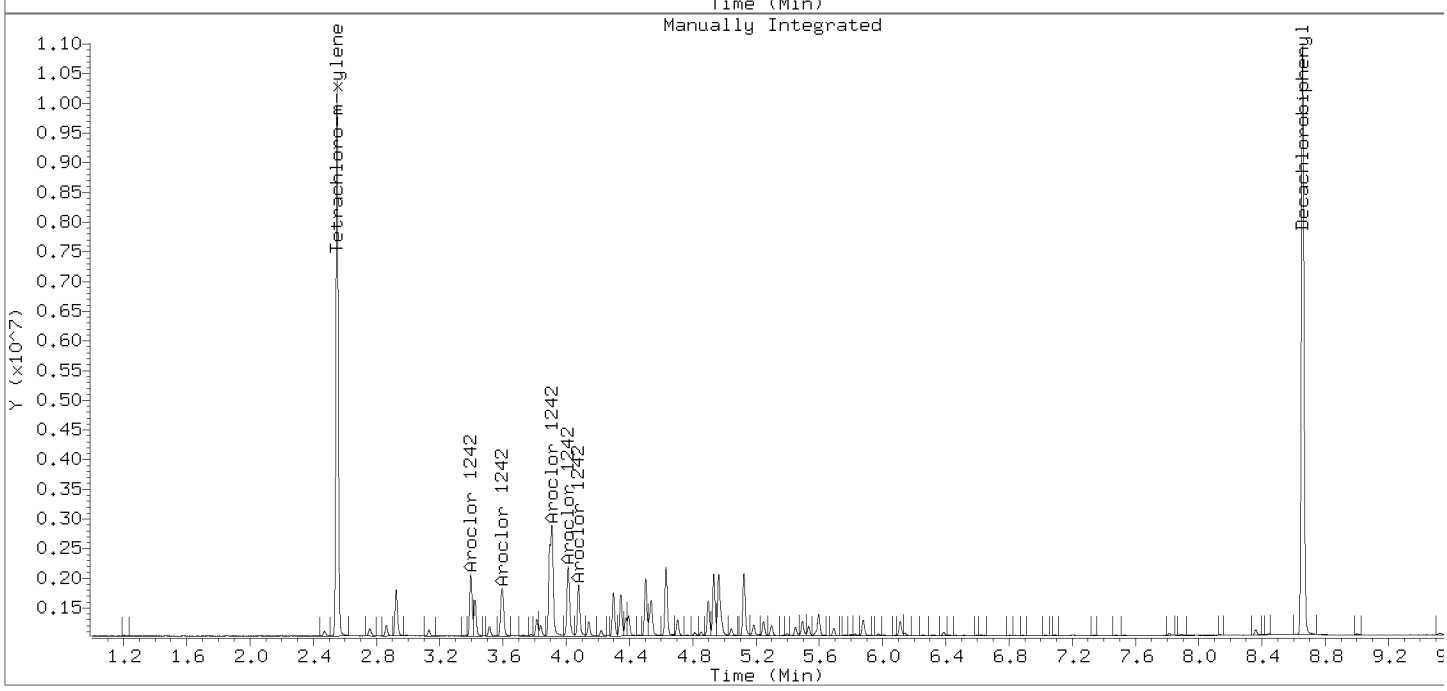
Column phase: ZB-1ms

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.

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: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157948

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682674

Date Analyzed: 05/08/2018 05:25

Lab File ID: 050718.B\050718062.D

Initial wt/vol: 3.1553 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)	<181	U
11104-28-2	PCB-1221 (Aroclor 1221)	<181	U
11141-16-5	PCB-1232 (Aroclor 1232)	<181	U
53469-21-9	PCB-1242 (Aroclor 1242)	<181	U
12672-29-6	PCB-1248 (Aroclor 1248)	4010	
11097-69-1	PCB-1254 (Aroclor 1254)	2060	
11096-82-5	PCB-1260 (Aroclor 1260)	264	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718062.D
Lab Smp Id: 1682674 Client Smp ID: ND2-170828-01-PKSD-
Inj Date : 08-MAY-2018 05:25
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682674 x5,
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: 62 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	3.155	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.377	10512	12143	1.155	0.02		
2.477	110048	90461	0.822	0.24		
2.550	2250443	2306415	1.025	4.98	$ 2 Tetrachloro-m-xylene	
2.861	11844	11456	0.967	0.02		
2.925	33087	29011	0.877	0.07		
3.131	118471	118501	1.000	0.26		
3.396	66801	64874	0.971	0.14		
3.422	106354	101893	0.958	0.23		
3.514	165397	159207	0.963	0.36		
3.599	251542	240997	0.958	0.55		
3.727	25252	22508	0.891	0.05		
3.812	162419	159497	0.982	0.35		
3.837	94658	84309	0.891	0.20		
3.909	907854	540069	0.595	2.01		
4.021	188762	148100	0.785	0.41		
4.077	297423	264371	0.889	0.65		
4.141	96100	86738	0.903	0.21		
4.220	17499	15602	0.892	0.03		
4.298	1622426	1503958	0.927	3.59		
4.345	1776935	1699575	0.956	3.93	6 Aroclor 1248	BA
4.376	2199613	1835480	0.834	4.87		
4.432	27275	20390	0.748	0.06		
4.502	699535	671002	0.959	1.54		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.537	794976	703923	0.885	1.76	
4.630	1394912	1276215	0.915	3.08	6 Aroclor 1248
4.671	92286	81797	0.886	0.20	
4.702	106853	91686	0.858	0.23	
4.766	95523	83302	0.872	0.21	
4.813	167899	111069	0.662	0.37	
4.853	246736	228311	0.925	0.54	
4.898	1155040	1086907	0.941	2.55	6 Aroclor 1248
4.933	1297179	1226486	0.946	2.87	
4.964	2927225	1983734	0.678	6.92	6 Aroclor 1248
5.043	441275	383031	0.868	0.97	
5.123	1348670	1213876	0.900	2.98	6 Aroclor 1248
5.186	687899	598550	0.870	1.52	
5.246	1657322	1448669	0.874	3.67	7 Aroclor 1254
5.297	1327638	1212182	0.913	2.94	
5.369	128293	121127	0.944	0.28	
5.394	156671	125139	0.799	0.34	
5.449	655586	594947	0.908	1.45	
5.493	1248866	1130027	0.905	2.76	7 Aroclor 1254
5.532	890269	779806	0.876	1.97	
5.571	95599	105817	1.107	0.21	
5.596	2161513	1864455	0.863	4.78	7 Aroclor 1254
5.662	49394	43029	0.871	0.10	
5.691	352693	326107	0.925	0.78	
5.761	297996	276368	0.927	0.66	
5.799	221663	165571	0.747	0.49	
5.827	343846	249867	0.727	0.76	
5.877	2403898	1928038	0.802	5.32	
5.974	219957	166722	0.758	0.48	
6.000	42008	51468	1.225	0.09	
6.015	93360	70895	0.759	0.20	
6.078	244419	230095	0.941	0.54	
6.111	1326182	1173518	0.885	2.93	7 Aroclor 1254
6.141	1109001	941394	0.849	2.45	
6.254	304712	223309	0.733	0.67	
6.315	135263	127665	0.944	0.29	
6.329	138039	131191	0.950	0.30	
6.386	1724642	1471651	0.853	3.82	7 Aroclor 1254
6.420	213935	190077	0.888	0.47	
6.461	100629	82315	0.818	0.22	
6.519	106056	80246	0.757	0.23	
6.595	284208	270301	0.951	0.62	
6.624	475201	352290	0.741	1.05	
6.691	63208	54141	0.857	0.14	
6.748	32225	29256	0.908	0.07	
6.805	154475	137916	0.893	0.34	
6.845	132761	122534	0.923	0.29	
6.888	248149	216360	0.872	0.54	
6.926	97156	69599	0.716	0.21	
7.029	59476	51784	0.871	0.13	
7.090	369324	330347	0.894	0.81	8 Aroclor 1260
7.120	26420	33885	1.283	0.05	
7.205	36250	20253	0.559	0.08	
7.337	213325	194944	0.914	0.47	8 Aroclor 1260
7.369	79411	64936	0.818	0.17	
7.475	113064	101710	0.900	0.25	
7.528	133329	112042	0.840	0.29	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.777	43845	39992	0.912	0.09	
7.810	48068	30350	0.631	0.10	
7.884	26390	15167	0.575	0.05	
7.985	80368	67845	0.844	0.17	8 Aroclor 1260
8.048	17226	11769	0.683	0.03	
8.133	9898	10487	1.060	0.02	
8.360	73023	66150	0.906	0.16	
8.656	2544014	2184689	0.859	5.63	$ 12 Decachlorobiphenyl
8.999	12636	10925	0.865	0.02	
9.248	10760	10553	0.981	0.02	
9.523	16804	12291	0.731	0.03	
	45147187	39189655		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718062.D
Lab Smp Id: 1682674 Client Smp ID: ND2-170828-01-PKSD-
Inj Date : 08-MAY-2018 05:25
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682674 x5,
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: 62 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	3.155	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	2250442	0.01868		150		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	1776935	0.74494	5900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1394912	0.32841	2600	0.00- 20.00	78.50	BA
4.898	4.898	0.000	1155039	0.56702	4500	0.00- 20.00	65.00	BA
4.963	4.963	0.000	2927225	0.53442	4200	0.00- 20.00	164.73	BA
5.123	5.123	0.000	1348670	0.35648	2800	0.00- 20.00	75.90	BA
Average of Peak Concentrations =					4000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1657322	0.29387	2300	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	1248865	0.26778	2100	0.00- 20.00	75.35	BA
5.596	5.596	0.000	2161512	0.25245	2000	0.00- 20.00	130.42	BA
6.110	6.113	-0.003	1326182	0.24962	2000	0.00- 20.00	80.02	BA
6.385	6.387	-0.002	1724642	0.23557	1900	0.00- 20.00	104.06	BA
Average of Peak Concentrations =					2000			
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	369324	0.03138	250	0.00- 20.00	22.92	CO
7.336	7.338	-0.002	213324	0.03771	300	0.00- 20.00	12.37	CO
7.528	7.529	-0.001	133328	0.03900	310	0.00- 20.00	7.73	CO
7.984	7.987	-0.003	80367	0.02538	200	0.00- 20.00	4.66	CO
Average of Peak Concentrations =					260			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	2544013	0.01910	150			

QC Flag Legend

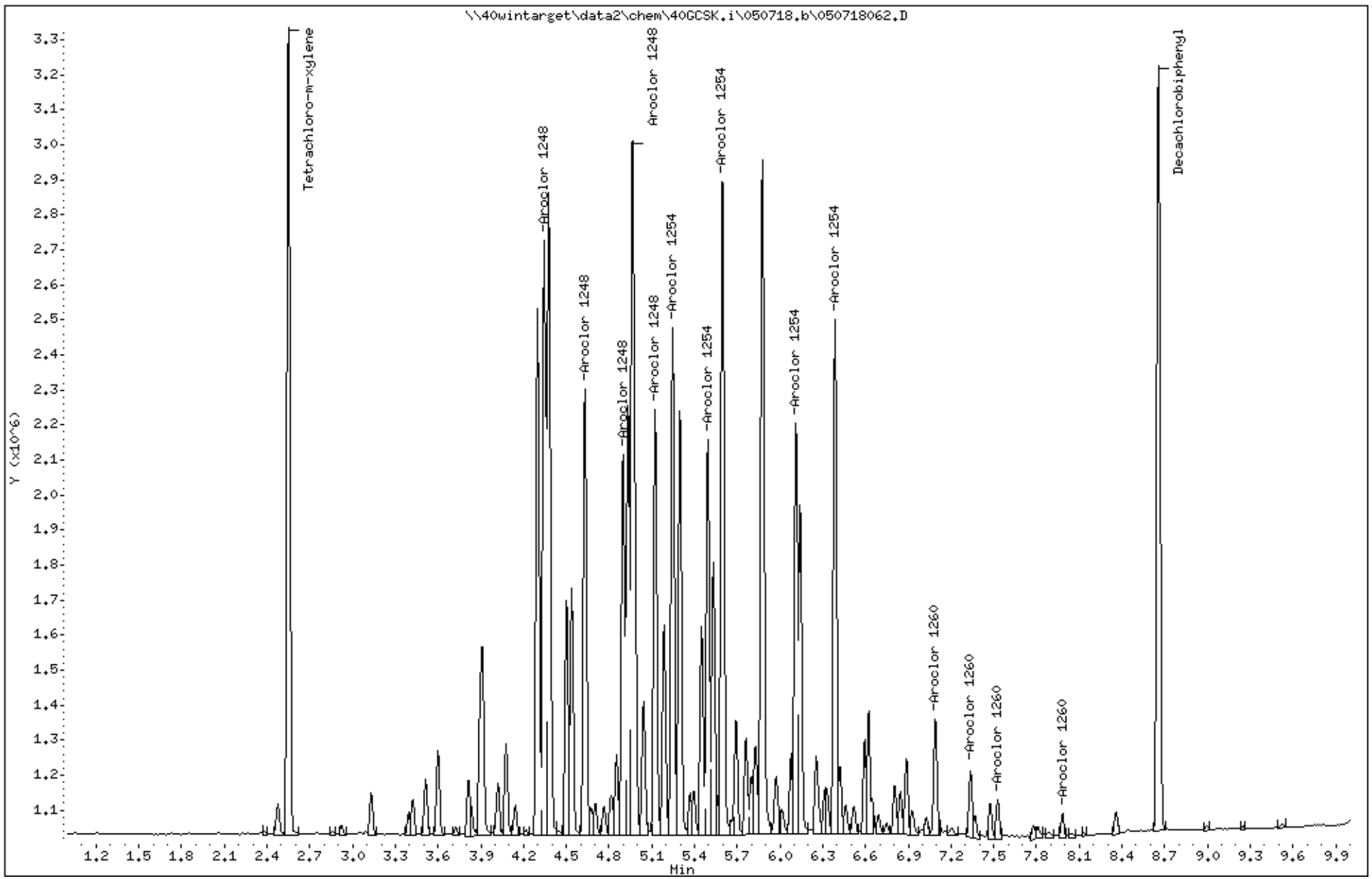
M - Compound response manually integrated.

Review Codes Legend

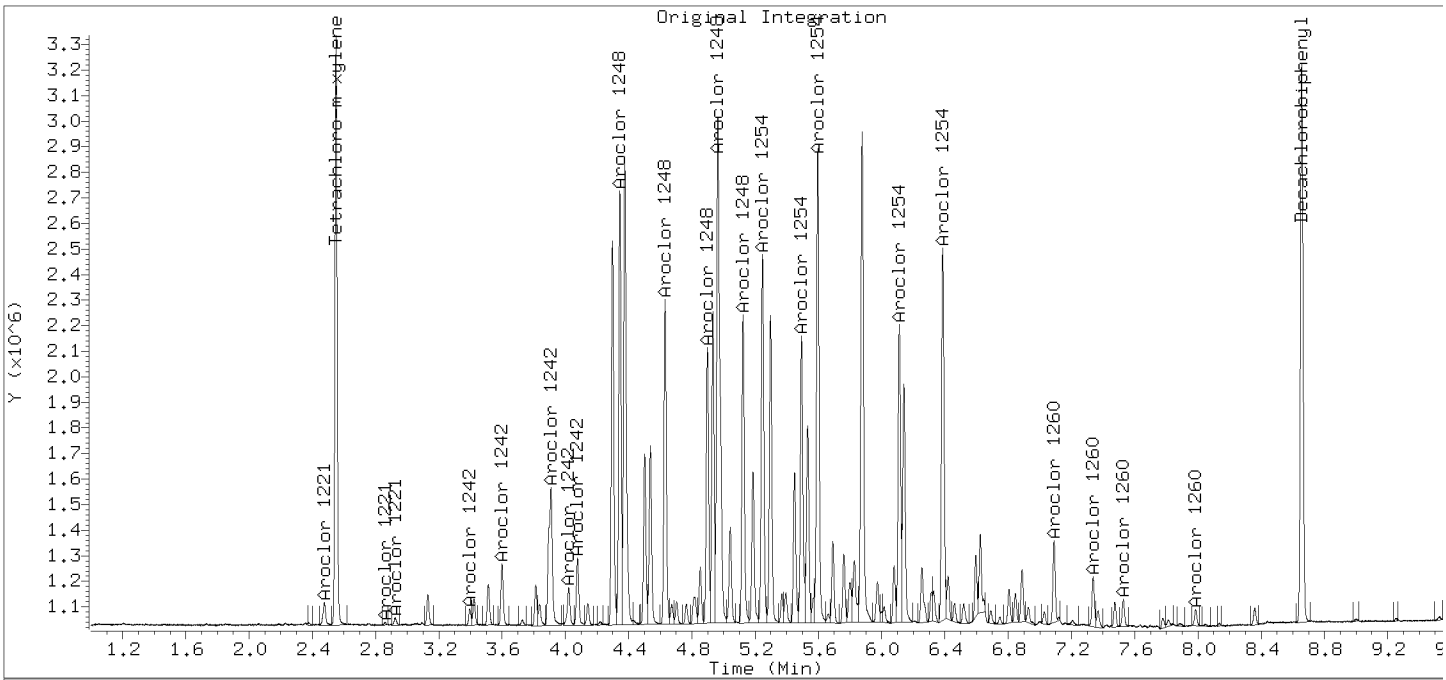
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

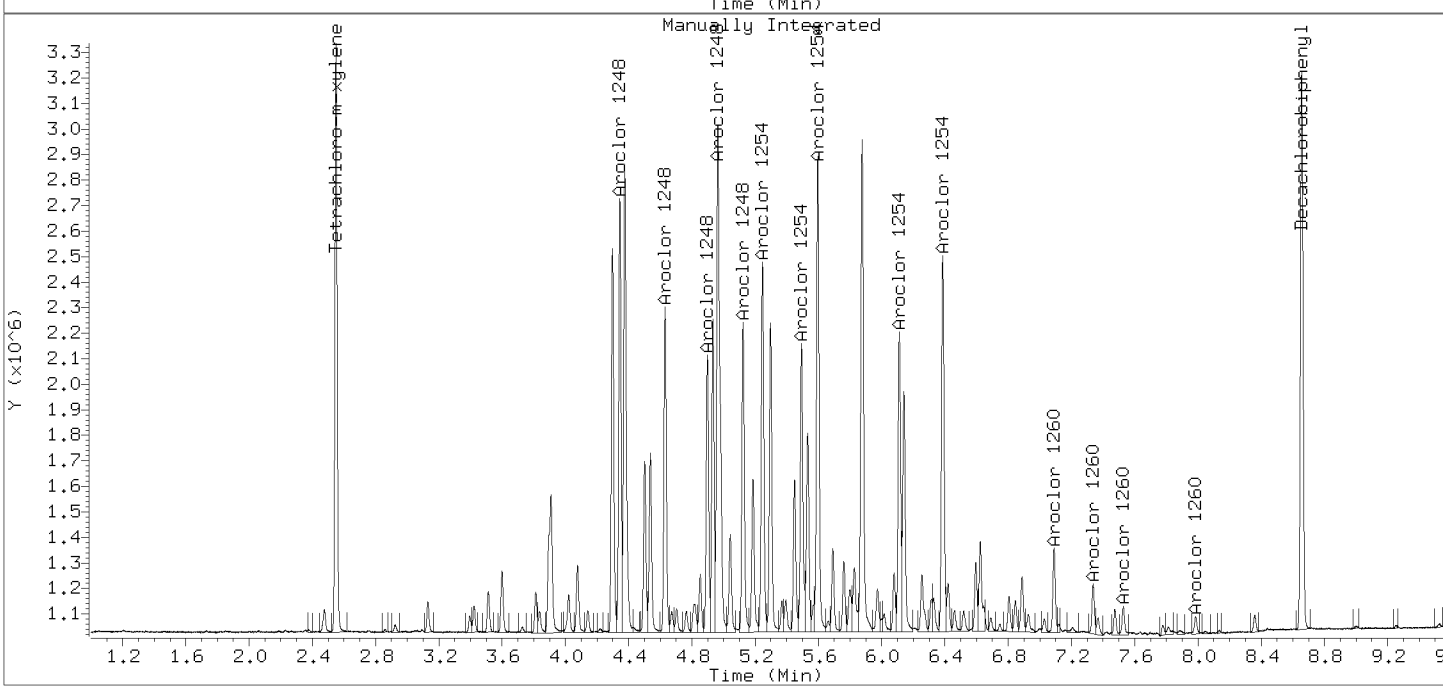
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718062.D
Date : 08-MAY-2018 05:25
Client ID: ND2-170828-01-PKSD-
Sample Info: 1682674 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718062.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 05:25 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682674





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66800	0	
Aroclor 1016	66800	0	
Aroclor 1016	66800	0	
Aroclor 1016	66800	0	
Aroclor 1016	66800	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	33087	0	
Aroclor 1232	33087	0	
Aroclor 1232	33087	0	
Aroclor 1232	33087	0	

Aroclor 1232	33087	0	
Aroclor 1242	66800	0	
Aroclor 1242	66800	0	
Aroclor 1242	66800	0	
Aroclor 1242	66800	0	
Aroclor 1242	66800	0	
Aroclor 1248	1768790	1776935	BA
Aroclor 1248	1768790	1776935	BA
Aroclor 1248	1768790	1776935	BA
Aroclor 1248	1768790	1776935	BA
Aroclor 1248	1768790	1776935	BA
Aroclor 1254	1630749	1657322	BA
Aroclor 1254	1630749	1657322	BA
Aroclor 1254	1630749	1657322	BA
Aroclor 1254	1630749	1657322	BA
Aroclor 1254	1630749	1657322	BA
Aroclor 1260	1680892	0	CO
Aroclor 1260	1680892	0	CO
Aroclor 1260	1680892	0	CO
Aroclor 1260	1680892	0	CO
Aroclor 1260	1680892	0	CO
Tetrachloro-m-xylene	2250442	2250442	
Decachlorobiphenyl	2544013	2544013	

==========

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.: 40157948

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).

---

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).

---

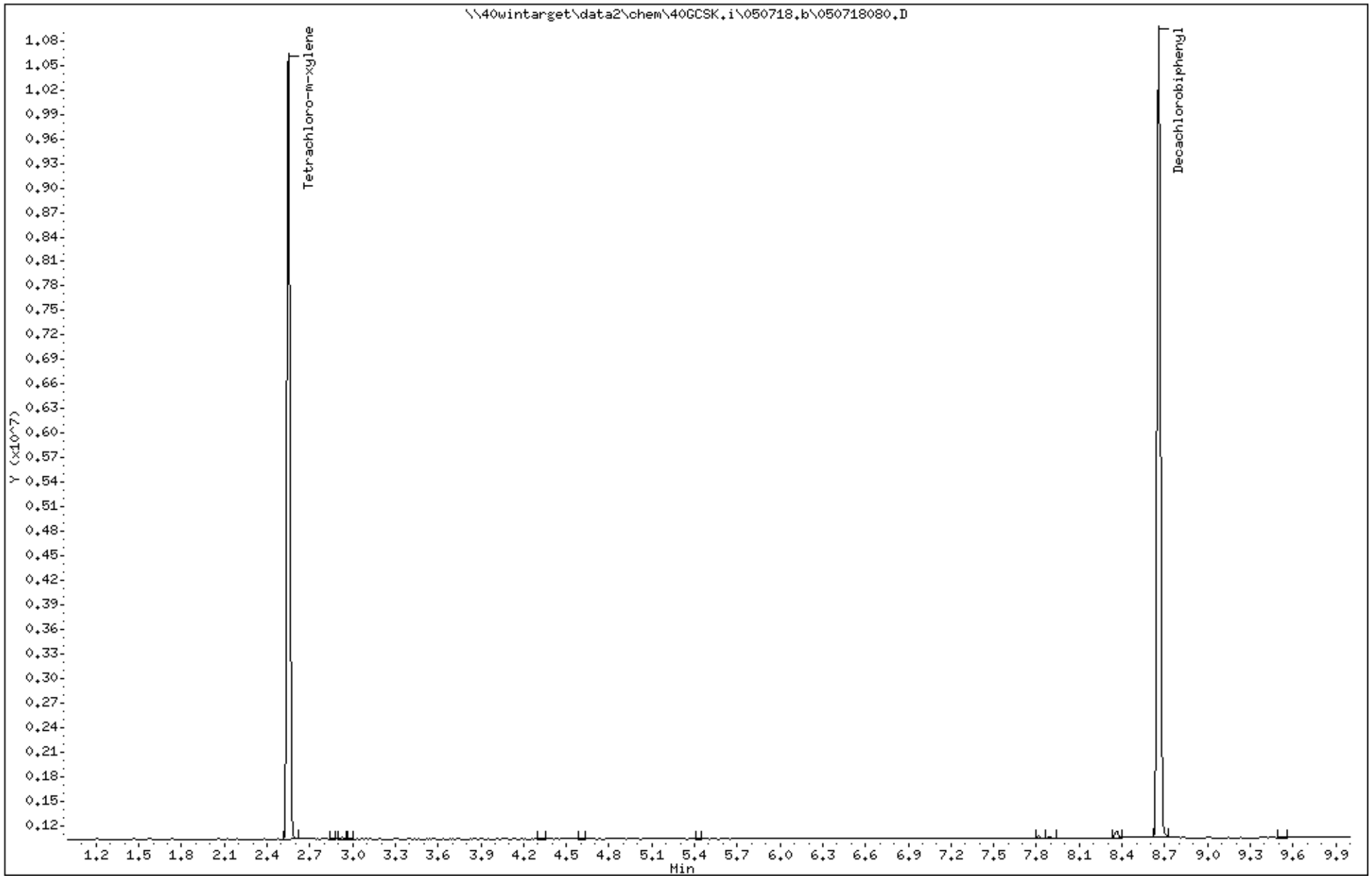
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	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.: 40157948

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

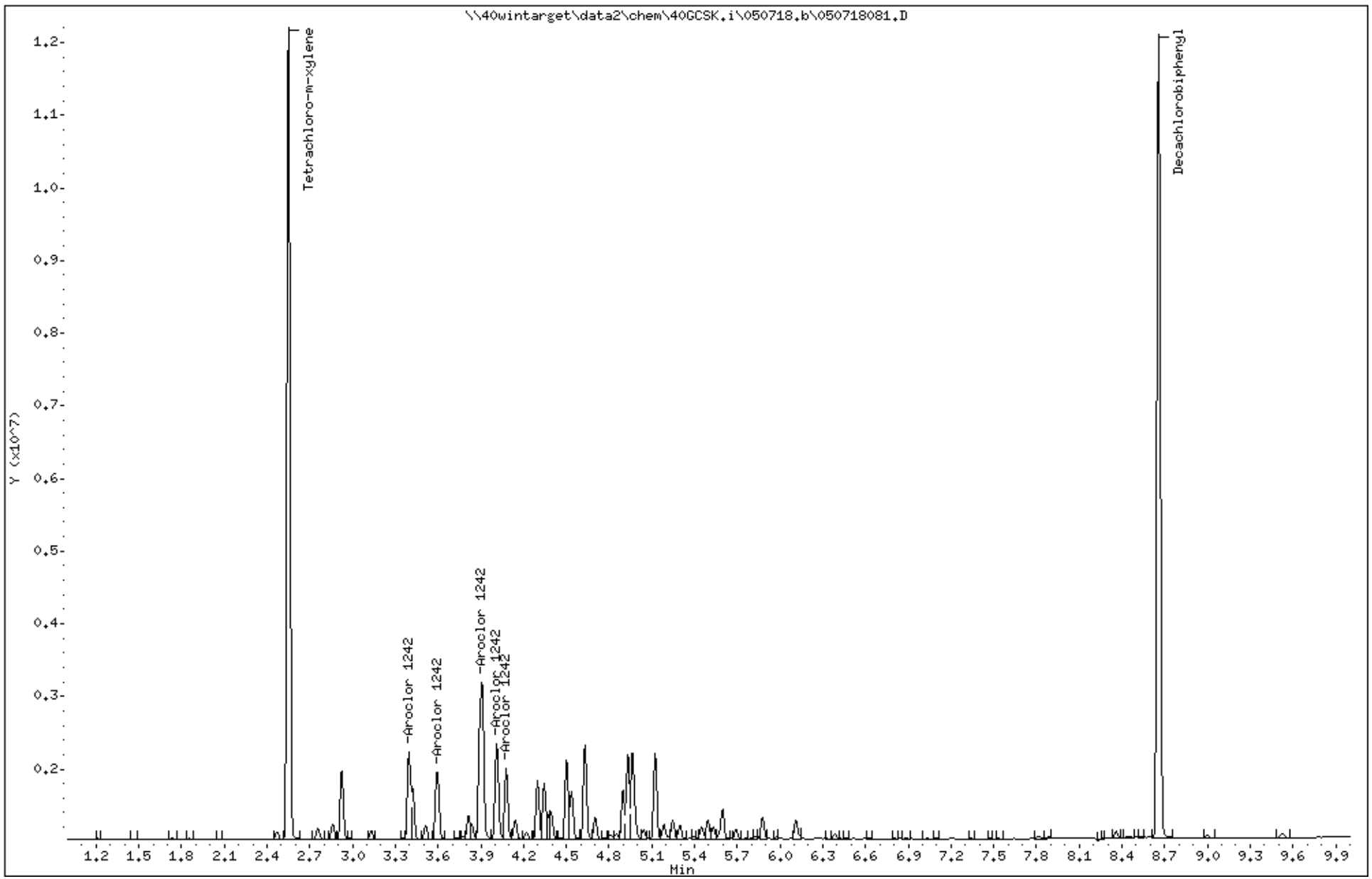
Sample Info: 1683453,

Volume Injected (uL): 1.0

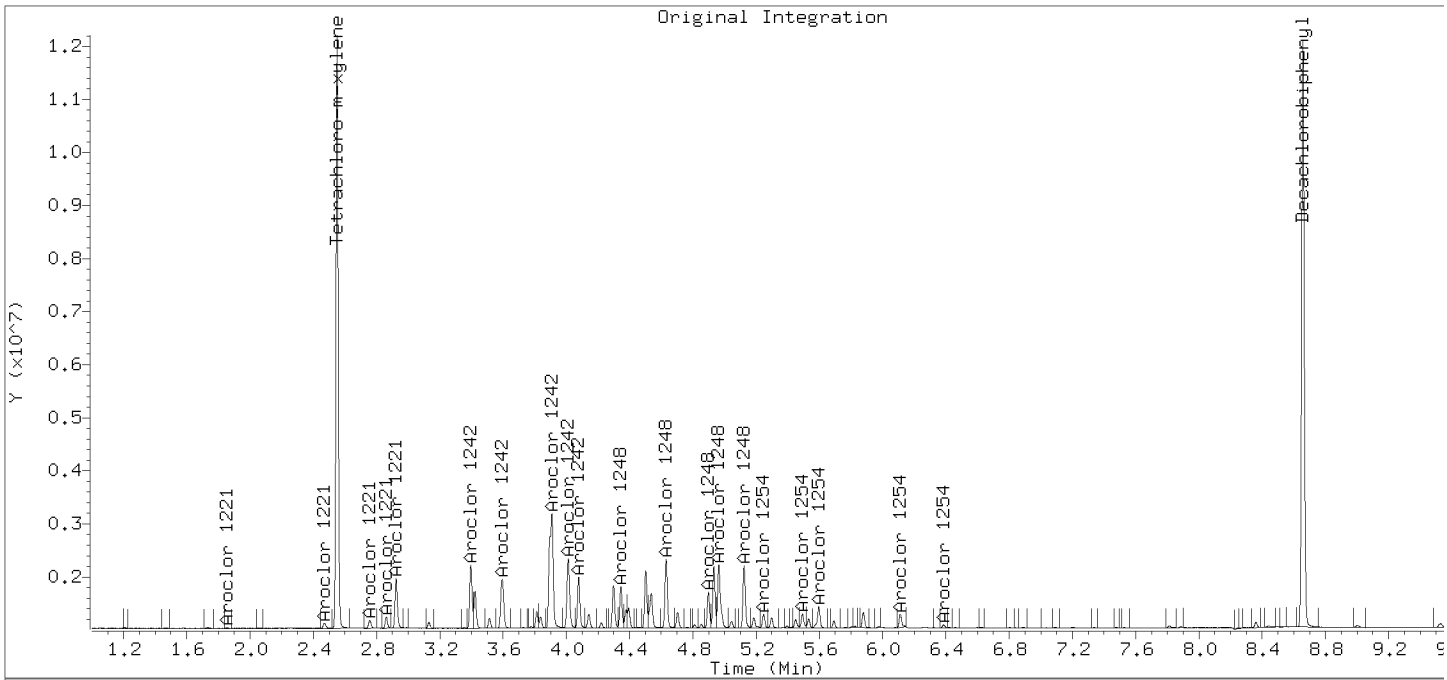
Operator: BLM

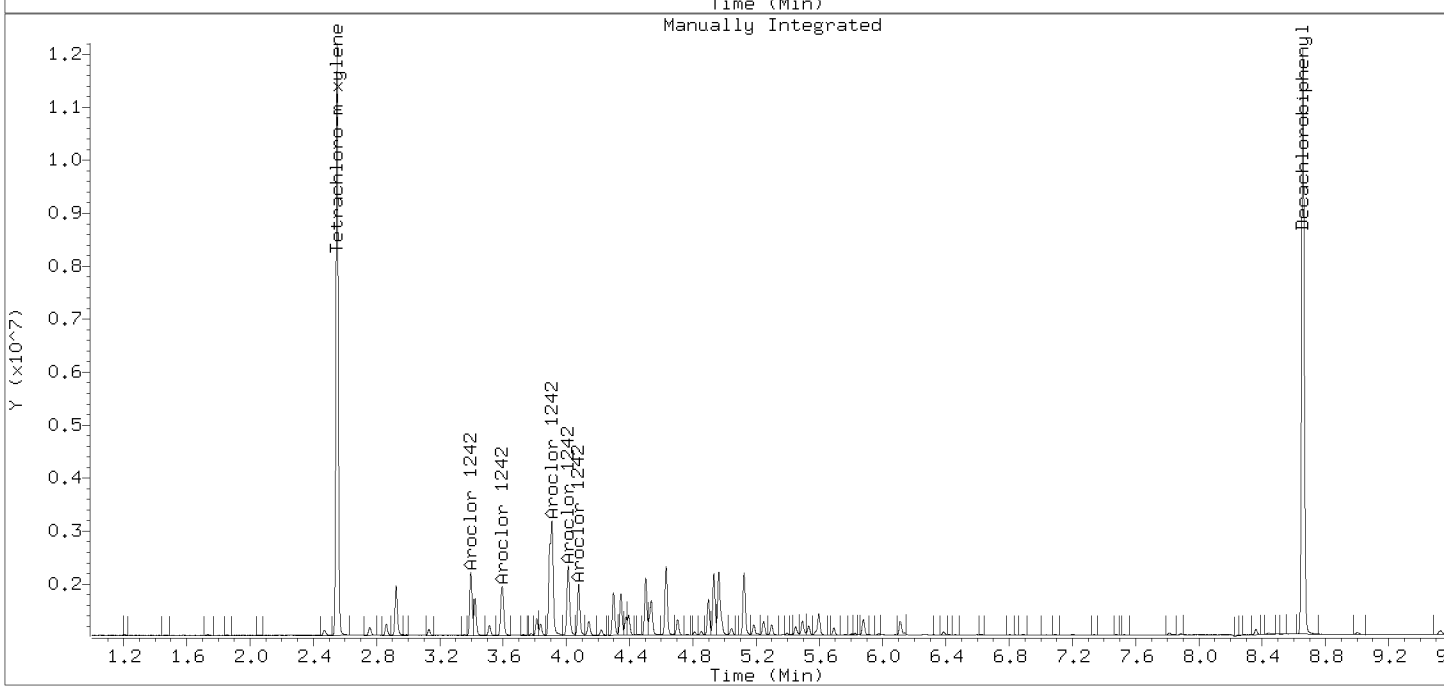
Column phase: ZB-1ms

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: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157948

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683454

Date Analyzed: 05/10/2018 09:14

Lab File ID: 051018.B\051018008.D

Initial wt/vol: 8.1489 g Final wt/vol: 5 mL Dilution: 6

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<83.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<83.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<83.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<83.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	2510	
11097-69-1	PCB-1254 (Aroclor 1254)	1470	
11096-82-5	PCB-1260 (Aroclor 1260)	215	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018008.D
Lab Smp Id: 1683454 Client Smp ID: TD3-170828-01-BNMN-
Inj Date : 10-MAY-2018 09:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683454 x6,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 8 QC Sample: FIELDDUP
Dil Factor: 6.00000
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	6.000	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	8.149	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.471	23807	20511	0.862	0.04		
2.549	1757586	1796044	1.022	2.96	$ 2 Tetrachloro-m-xylene	
2.925	13557	9508	0.701	0.02		
3.042	12351	12294	0.995	0.02		
3.064	24193	24524	1.014	0.04		
3.091	37777	37238	0.986	0.06		
3.131	22422	16649	0.743	0.03		
3.513	16979	16296	0.960	0.02		
3.596	16541	17696	1.070	0.02		
3.676	17164	9548	0.556	0.02		
3.723	17664	12198	0.691	0.02		
3.813	95400	96309	1.010	0.16		
3.837	67427	58407	0.866	0.11		
3.909	913636	608189	0.666	1.53		
4.005	53276	28646	0.538	0.08		
4.077	220819	196572	0.890	0.37		
4.142	77220	71863	0.931	0.13		
4.202	12299	6556	0.533	0.02		
4.298	1856651	1745515	0.940	3.12		
4.344	1853756	1732488	0.935	3.12	6 Aroclor 1248	BA
4.376	1647570	1423792	0.864	2.77		
4.502	1539318	1458063	0.947	2.59		
4.537	1008471	895853	0.888	1.69		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.631	1745546	1654278	0.948	2.94	6 Aroclor 1248
4.671	66537	59063	0.888	0.11	
4.703	334715	305885	0.914	0.56	
4.763	88477	75892	0.858	0.14	
4.812	174623	128652	0.737	0.29	
4.853	294651	274106	0.930	0.49	
4.898	1708039	1630621	0.955	2.87	6 Aroclor 1248
4.933	1460781	1387321	0.950	2.46	
4.964	4254615	2829795	0.665	7.61	6 Aroclor 1248
5.044	567989	482340	0.849	0.95	
5.124	2280050	2094821	0.919	3.84	6 Aroclor 1248
5.186	1059445	962326	0.908	1.78	
5.247	2396188	2096588	0.875	4.03	7 Aroclor 1254
5.298	1692215	1534206	0.907	2.85	
5.371	135059	123892	0.917	0.22	
5.396	292658	247724	0.846	0.49	
5.449	966428	910135	0.942	1.62	
5.494	1844500	1649659	0.894	3.10	7 Aroclor 1254
5.534	1250156	1087339	0.870	2.10	
5.569	168803	161449	0.956	0.28	
5.597	3293819	2991066	0.908	5.54	7 Aroclor 1254
5.660	49925	43273	0.867	0.08	
5.692	559438	506416	0.905	0.94	
5.761	349145	323119	0.925	0.58	
5.799	389016	291556	0.749	0.65	
5.827	412690	334327	0.810	0.69	
5.877	3692596	2931948	0.794	6.22	
5.974	304470	242396	0.796	0.51	
6.014	133433	103819	0.778	0.22	
6.080	359797	331252	0.921	0.60	
6.113	2143074	1858616	0.867	3.61	7 Aroclor 1254
6.142	1870309	1586663	0.848	3.15	
6.256	544440	443752	0.815	0.91	
6.314	220661	223270	1.012	0.37	
6.329	265247	227036	0.856	0.44	
6.387	2854151	2445849	0.857	4.80	7 Aroclor 1254
6.421	396368	364729	0.920	0.66	
6.461	199241	171721	0.862	0.33	
6.521	136464	97156	0.712	0.22	
6.597	371793	348239	0.937	0.62	
6.624	704164	642945	0.913	1.18	
6.648	174890	175008	1.001	0.29	
6.691	112490	101416	0.902	0.18	
6.747	48372	43263	0.894	0.08	
6.806	280664	247734	0.883	0.47	
6.846	205804	189964	0.923	0.34	
6.889	443515	391625	0.883	0.74	
6.930	143285	104523	0.729	0.24	
6.999	30068	22740	0.756	0.05	
7.030	159909	139151	0.870	0.26	
7.091	626514	575619	0.919	1.05	8 Aroclor 1260
7.124	65494	53105	0.811	0.11	
7.161	36759	23014	0.626	0.06	
7.210	56744	34282	0.604	0.09	
7.338	385010	344814	0.896	0.64	8 Aroclor 1260
7.369	149543	113258	0.757	0.25	
7.421	65880	33683	0.511	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.478	139770	132551	0.948	0.23	
7.529	240932	171703	0.713	0.40	8 Aroclor 1260
7.636	38582	24517	0.635	0.06	
7.670	27524	20564	0.747	0.04	
7.746	25212	26848	1.065	0.04	
7.780	77100	70042	0.908	0.12	
7.813	60857	41590	0.683	0.10	
7.890	44936	24674	0.549	0.07	
7.986	133619	109340	0.818	0.22	8 Aroclor 1260
8.050	18797	14404	0.766	0.03	
8.362	96981	86160	0.888	0.16	
8.501	14711	12528	0.852	0.02	
8.658	2092828	1833750	0.876	3.52	$ 12 Decachlorobiphenyl
9.005	12913	9984	0.773	0.02	
9.527	14098	16390	1.163	0.02	
	59361399	51688243		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018008.D
Lab Smp Id: 1683454 Client Smp ID: TD3-170828-01-BNMN-
Inj Date : 10-MAY-2018 09:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683454 x6,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 8 QC Sample: FIELDDUP
Dil Factor: 6.00000
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	6.000	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	8.149	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	1757586	0.01459	54			

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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

Operator disabled compound identification.

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	1853755	0.77714	2900	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1745546	0.41096	1500	0.00- 20.00	94.16	BA
4.897	4.898	-0.001	1708039	0.83849	3100	0.00- 20.00	92.14	BA
4.964	4.963	0.001	4254614	0.77676	2800	0.00- 20.00	229.51	BA
5.123	5.123	0.000	2280050	0.60267	2200	0.00- 20.00	123.00	BA
Average of Peak Concentrations =					2500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	2396187	0.42488	1600	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	1844500	0.39550	1400	0.00- 20.00	76.98	BA
5.597	5.596	0.001	3293819	0.38470	1400	0.00- 20.00	137.46	BA
6.112	6.113	-0.001	2143074	0.40337	1500	0.00- 20.00	89.44	BA
6.387	6.387	0.000	2854150	0.38985	1400	0.00- 20.00	119.11	BA
Average of Peak Concentrations =					1500			
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	626513	0.05323	200	0.00- 20.00	21.95	BA
7.338	7.338	0.000	385009	0.06807	250	0.00- 20.00	13.49	BA
7.529	7.529	0.000	240932	0.07047	260	0.00- 20.00	8.44	BA
7.986	7.987	-0.001	133619	0.04219	160	0.00- 20.00	4.68	BA
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	2092828	0.01571	58			

QC Flag Legend

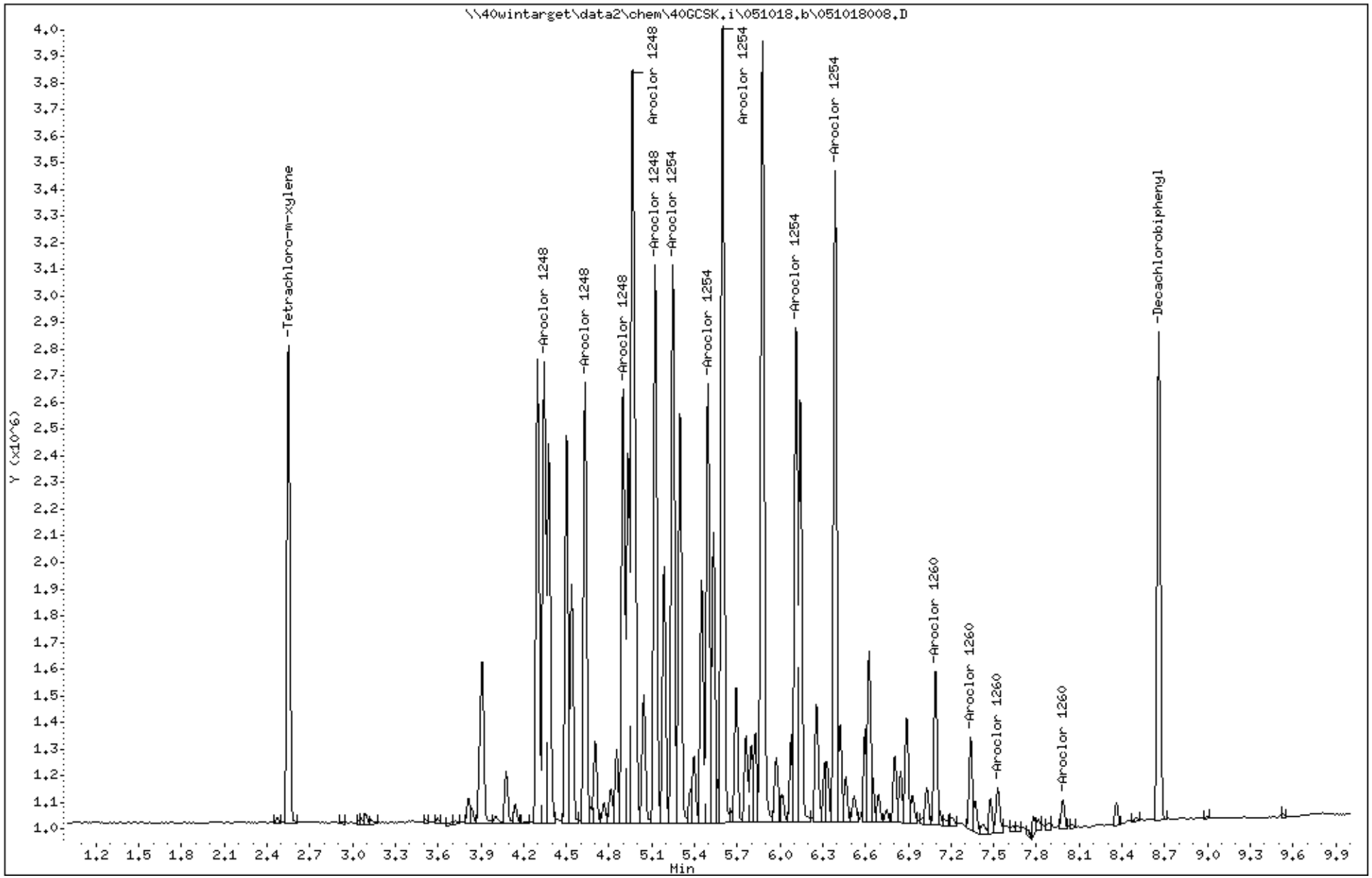
M - Compound response manually integrated.

Review Codes Legend

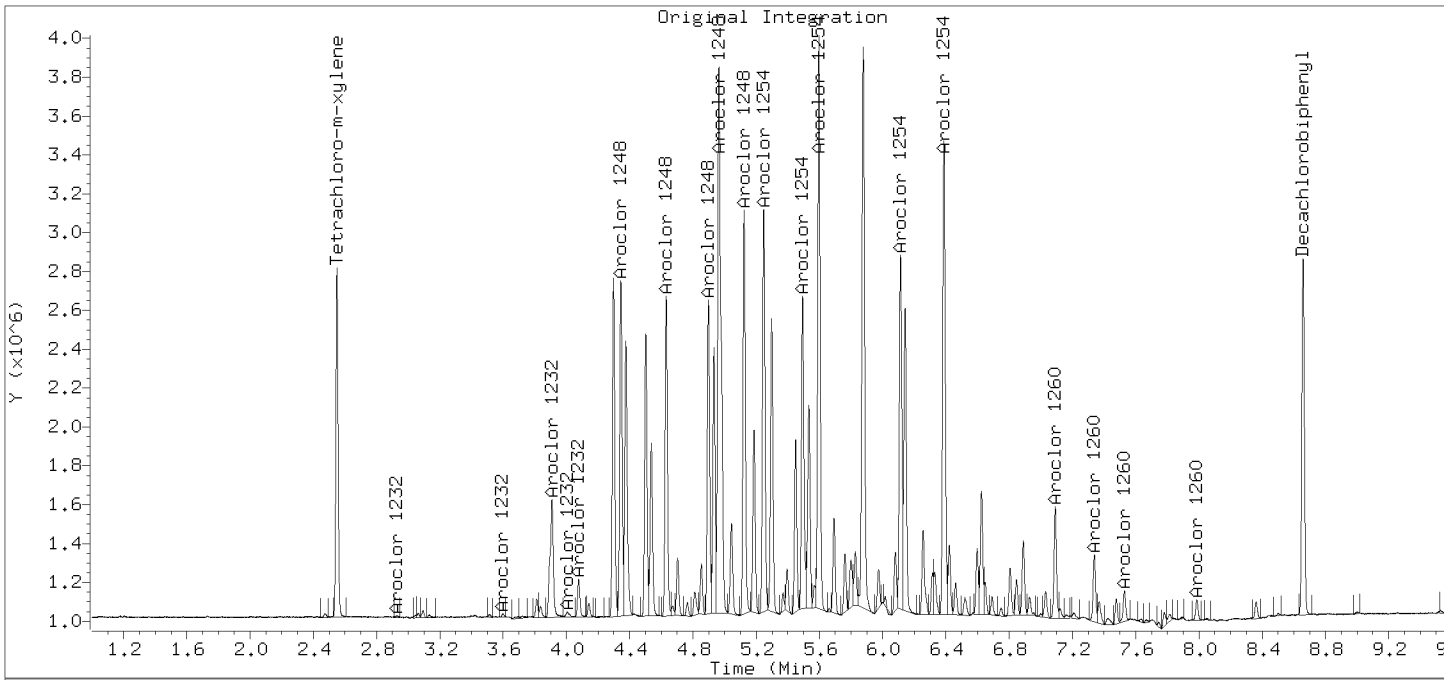
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

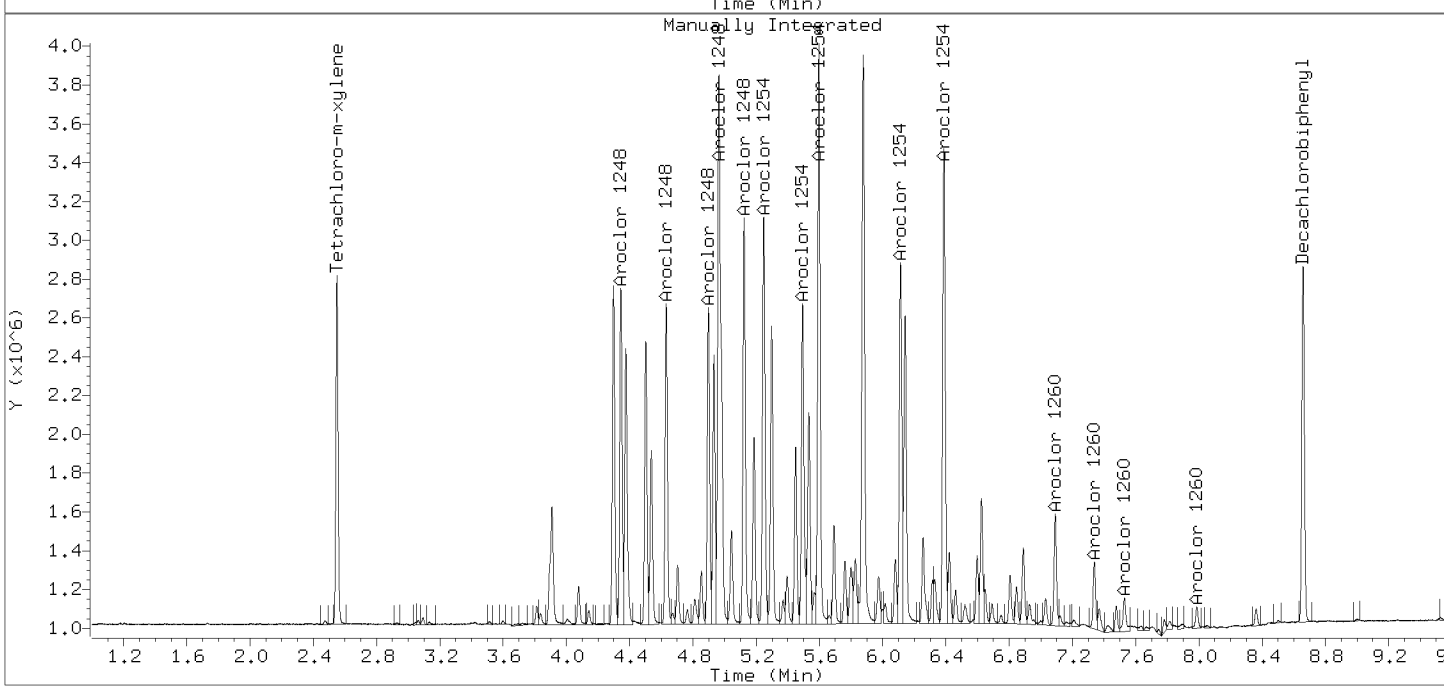
Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018008.D
Date : 10-MAY-2018 09:14
Client ID: TD3-170828-01-BNMN-
Sample Info: 1683454 x6,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-MAY-2018 09:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683454





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	13556	0	
Aroclor 1232	13556	0	
Aroclor 1232	13556	0	
Aroclor 1232	13556	0	

Aroclor 1232	13556	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	1835085	1853755	BA
Aroclor 1248	1835085	1853755	BA
Aroclor 1248	1835085	1853755	BA
Aroclor 1248	1835085	1853755	BA
Aroclor 1248	1835085	1853755	BA
Aroclor 1254	2307832	2396187	BA
Aroclor 1254	2307832	2396187	BA
Aroclor 1254	2307832	2396187	BA
Aroclor 1254	2307832	2396187	BA
Aroclor 1254	2307832	2396187	BA
Aroclor 1260	2826867	0	BA
Aroclor 1260	2826867	0	BA
Aroclor 1260	2826867	0	BA
Aroclor 1260	2826867	0	BA
Aroclor 1260	2826867	0	BA
Tetrachloro-m-xylene	1757586	1757586	
Decachlorobiphenyl	2092828	2092828	

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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

40157948

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

40157948

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

40157948

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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Read and Understood By

Bryan Meyer — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
      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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BLM 5/10/18

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Read and Understood By

Beza Meg 5/10/18 Signed Date

Jim O'Connor 5-10-18 Signed 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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Read and Understood By

Beryl Meyer — Signed — 5/10/18 — Date

Jim O'Conner — Signed — 5-10-18 — Date

```
      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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BLM 5/10/18

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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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Read and Understood By

Bryan Meyll — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
      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            --------
```

GE BIOTA

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Read and Understood By

Signed: Beau Meagher Date: 5/10/18

Signed: Jim O'Connor 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          --------

   Last Modified: Fri May 04 08:32:57 2018                Page:  1
```

GE BIOTA

BLM 5/10/18

Continued on Page —

Read and Understood By

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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Signed: [signature] Date: 5/7/18

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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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```
      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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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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Signed 5/7/18 Date

Signed 5/7/18 Date

```
        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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Bryan Meyl — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
      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

   Last Modified: Mon May 07 12:20:59 2018                Page:  2
```

BLM 5/10/18

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Read and Understood By

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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Continued on Page 89

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

   Last Modified: Mon May 07 12:20:59 2018                Page:  5
```

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Continued on Page 90

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
```

BLM 5/10/18

```
   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

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```

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Read and Understood By

Brian Meyl — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — 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			

The standards listed are from Pace's Green Bay Laboratory.

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			

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

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

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

The standards listed are from Pace's Green Bay Laboratory.

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		

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

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		

The standards listed are from Pace's Green Bay Laboratory.

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		

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

Certificate of Analysis

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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Date Received: _____

Certificate of Analysis

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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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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. : 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)

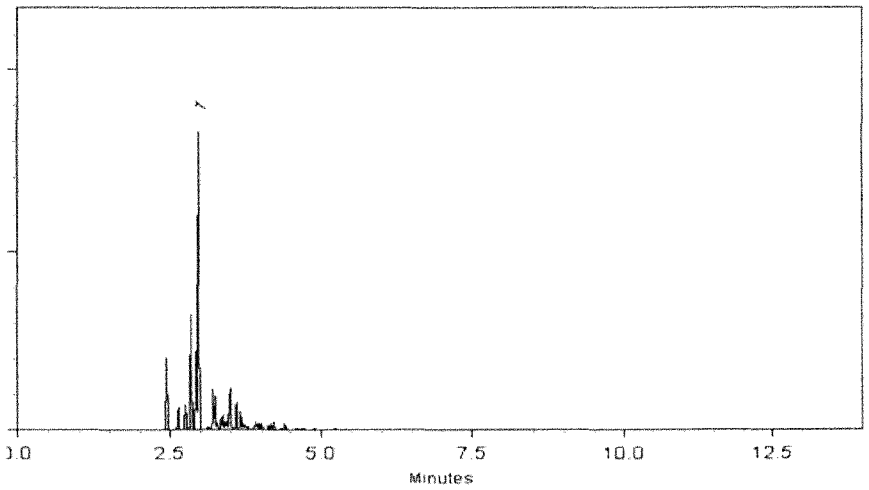
Carrier Gas:
helium-constant pressure 20 psi.

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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Registered Quality System
Certificate #FM 80397

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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. : 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)

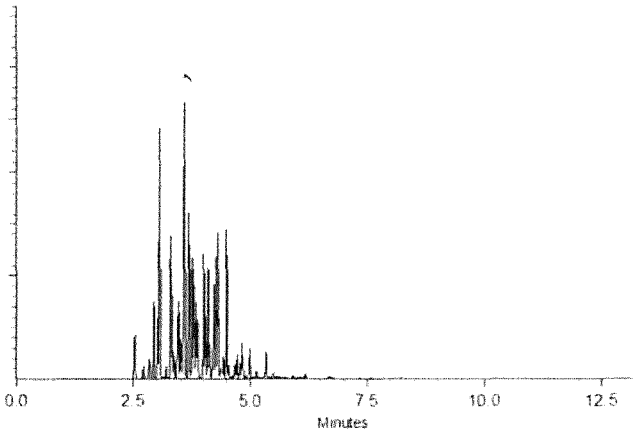
Carrier Gas:
helium-constant pressure 20 psi.

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:AKM 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. : 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)

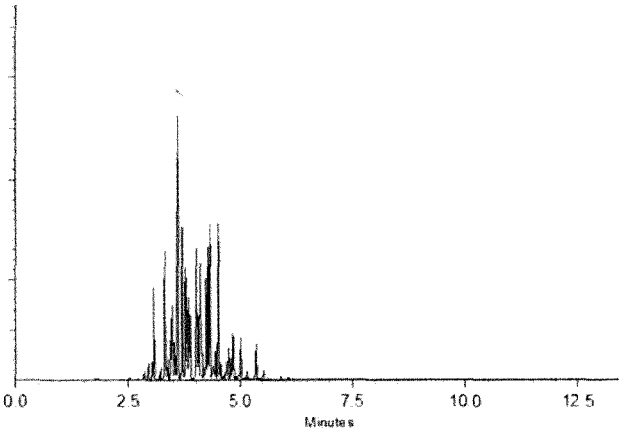
Carrier Gas:
helium-constant pressure 20 psi.

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)

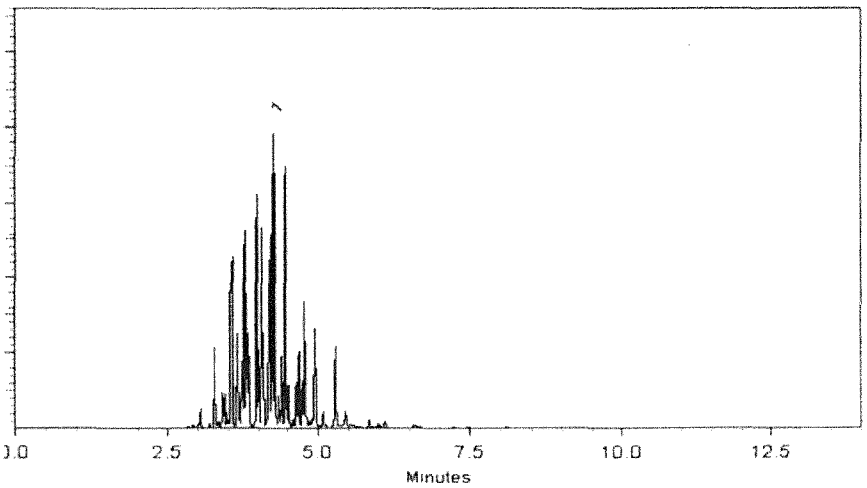
Carrier Gas:
helium-constant pressure 20 psi.

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)

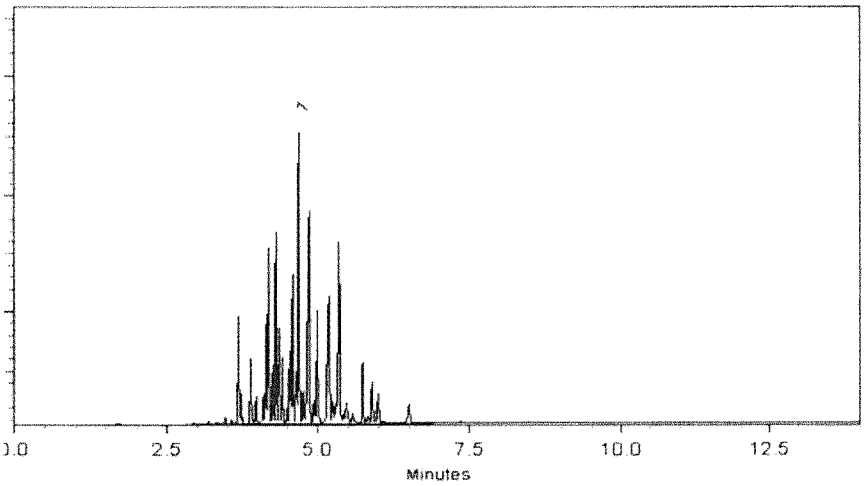
Carrier Gas:
helium-constant pressure 20 psi.

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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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. : 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)

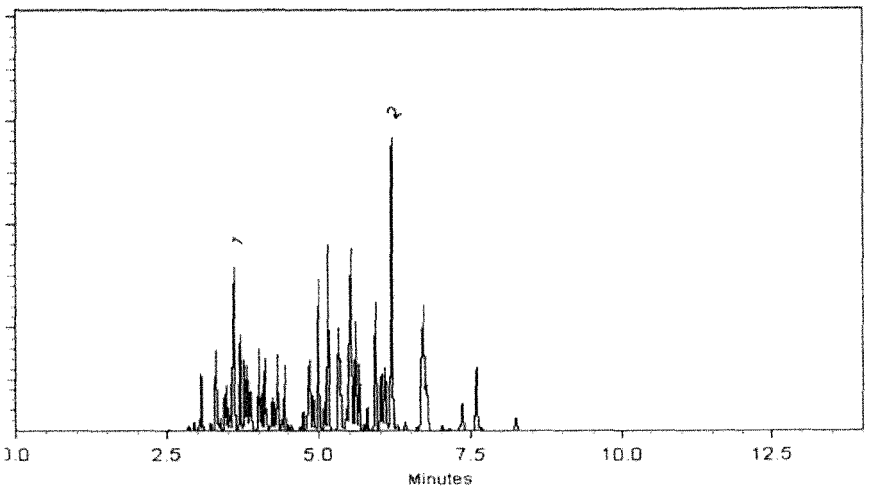
Carrier Gas:
helium-constant pressure 20 psi.

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 - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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Date Received: _____

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Rev 0

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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Certificate of Analysis

Rev 0

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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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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Date Received: _____

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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)

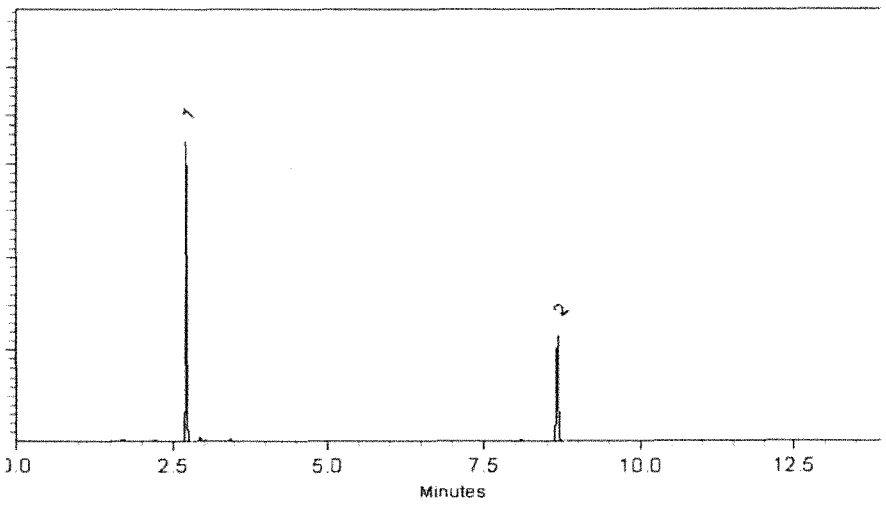
Carrier Gas:
helium-constant pressure 20 psi.

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

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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

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Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

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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)

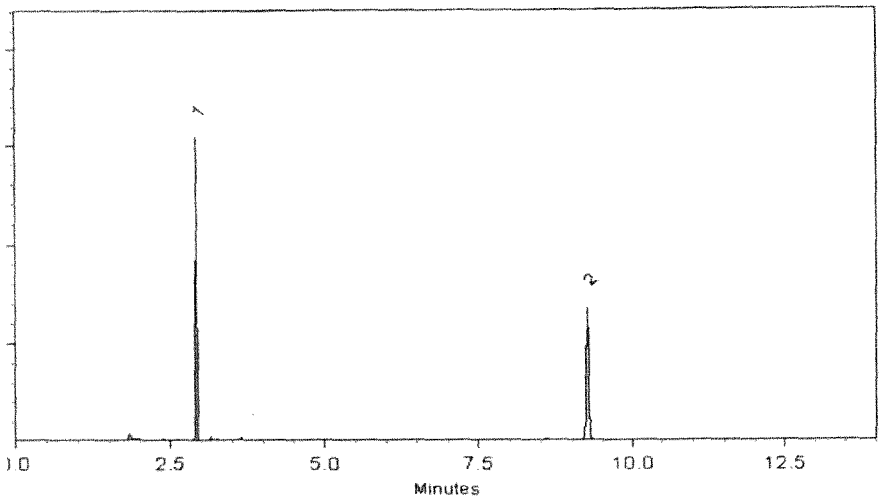
Carrier Gas:
helium-constant pressure 20 psi.

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
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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 **Page 1 of 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

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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

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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
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SAMPLE NO.

TD5-170828-01-FALLF-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.1		%	1	05/01/2018 14:21

SAMPLE NO.

TD5-170828-01-FALLF-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.7		%	1	05/01/2018 14:21

SAMPLE NO.

TD4-170828-01-SFSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.0		%	1	05/02/2018 10:14

SAMPLE NO.

TD4-170828-01-SFSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.6		%	1	05/02/2018 10:14

SAMPLE NO.

TD3-170828-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.0		%	1	05/02/2018 10:14

SAMPLE NO.

TD3-170828-01-BNMN-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.1		%	1	05/03/2018 09:44

SAMPLE NO.

TD2-170828-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.7		%	1	05/01/2018 14:21

SAMPLE NO.

TD2-170828-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.1		%	1	04/30/2018 14:41

SAMPLE NO.

TD1-170828-01-GOSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.6		%	1	04/30/2018 14:41

SAMPLE NO.

ND2-170828-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.7		%	1	05/02/2018 10:14

SAMPLE NO.

ND2-170828-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/30/2018 14:41

SAMPLE NO.

ND1-170828-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.5		%	1	05/01/2018 14:22

SAMPLE NO.

ND1-170828-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	05/02/2018 10:15

SAMPLE NO.

ND1-170828-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157948014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/30/2018 14:42

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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. : 40157948 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

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

40157948

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

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	

40157948

Client Name: GE
Project #: 40157948
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	84.5	Y	N/A	N/A	Left / Both	N/A	4AG	1	Y	79.9	C	
2				121.5				Left / Both			2	Y	115.3		
3				22.5				Left / Both			1	Y	20.7		
4				23.3				Left / Both			1	Y	21.9		
5				18.5				Left / Both			1	Y	17.4		
6				20.0				Left / Both			1	Y	18.7		
7				30.2				Left / Both			1	Y	28.3		
8				83.8				Left / Both			1	Y	79.3		
9				113.1				Left / Both			2	Y	108.1		
10				7.7				Left / Both			1	Y	6.6		
11				81.5				Left / Both			1	Y	77.1		
12				37.2				Left / Both			1	Y	34.9		
13				14.1				Left / Both			1	Y	12.4		
14	X	X	X	60.1	X	X	X	Left / Both	X	X	1	Y	56.3	X	
								Left / Both							
								Left / Both							
						CWN	04-13-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(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	G-7-243-01DB
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

Date 4/27/18

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