Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40158028

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

May 23, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

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

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

Sincerely,

Tod Noltemeyer

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

Enclosures

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

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

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.: 40158028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158028001	**SW5-170830-01-PKSD-10**	Tissue	08/30/17 10:03	10/05/17 09:40
40158028002	**SW5-170830-01-PKSD-09**	Tissue	08/30/17 10:01	10/05/17 09:40
40158028003	**SW5-170830-01-PKSD-08**	Tissue	08/30/17 09:59	10/05/17 09:40
40158028004	**SW5-170830-01-PKSD-07**	Tissue	08/30/17 09:55	10/05/17 09:40
40158028005	**SW5-170830-01-PKSD-06**	Tissue	08/30/17 09:54	10/05/17 09:40
40158028006	**SW5-170830-01-PKSD-05**	Tissue	08/30/17 09:53	10/05/17 09:40
40158028007	**SW5-170830-01-PKSD-04**	Tissue	08/30/17 09:50	10/05/17 09:40
40158028008	**SW5-170830-01-PKSD-03**	Tissue	08/30/17 09:48	10/05/17 09:40
40158028009	**SW5-170830-01-PKSD-02**	Tissue	08/30/17 09:47	10/05/17 09:40
40158028010	**SW5-170830-01-PKSD-01**	Tissue	08/30/17 09:46	10/05/17 09:40
40158028011	**SW4-170830-01-PKSD-05**	Tissue	08/30/17 09:07	10/05/17 09:40
40158028012	**SW4-170830-01-PKSD-04**	Tissue	08/30/17 09:06	10/05/17 09:40
40158028013	**SW4-170830-01-PKSD-03**	Tissue	08/30/17 09:05	10/05/17 09:40
40158028014	**SW4-170830-01-PKSD-02**	Tissue	08/30/17 09:03	10/05/17 09:40
40158028015	**SW4-170830-01-PKSD-01**	Tissue	08/30/17 09:00	10/05/17 09:40

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158028001	SW5-170830-01-PKSD-10	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028002	SW5-170830-01-PKSD-09	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028003	SW5-170830-01-PKSD-08	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028004	SW5-170830-01-PKSD-07	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028005	SW5-170830-01-PKSD-06	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028006	SW5-170830-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028007	SW5-170830-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028008	SW5-170830-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028009	SW5-170830-01-PKSD-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028010	SW5-170830-01-PKSD-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028011	SW4-170830-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028012	SW4-170830-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028013	SW4-170830-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028014	SW4-170830-01-PKSD-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158028015	SW4-170830-01-PKSD-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.: 40158028

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

General Information:
15 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.

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.

QC Batch: 287158

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40158028015

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

- MS (Lab ID: 1679888)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

Batch Comments:

Samples were re-analyzed due to failing continuing calibration verification check.

- QC Batch: 287392

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

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

General Information:
15 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.: 40158028

Sample: SW5-170830-01-PKSD-10 **Lab ID: 40158028001** Collected: 08/30/17 10:03 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<68.4**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<68.4**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.4**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.4**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**1300**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**557**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**106J**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	11096-82-5	
PCB, Total	**1960**	ug/kg	300	68.4	6	04/27/18 10:44	05/03/18 22:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		6	04/27/18 10:44	05/03/18 22:12	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		6	04/27/18 10:44	05/03/18 22:12	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%	0.030	0.030	1		04/27/18 14:16		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-09 **Lab ID: 40158028002** Collected: 08/30/17 10:01 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.1**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**1040**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**422**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**119J**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	11096-82-5	
PCB, Total	**1580**	ug/kg	250	57.1	5	04/27/18 10:44	05/03/18 22:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		5	04/27/18 10:44	05/03/18 22:29	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		5	04/27/18 10:44	05/03/18 22:29	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/27/18 14:16		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-08 **Lab ID: 40158028003** Collected: 08/30/17 09:59 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<58.0**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<58.0**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<58.0**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<58.0**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**912**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**405**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**100J**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	11096-82-5	
PCB, Total	**1420**	ug/kg	254	58.0	4	04/27/18 10:44	05/03/18 22:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		4	04/27/18 10:44	05/03/18 22:45	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		4	04/27/18 10:44	05/03/18 22:45	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%	0.030	0.030	1		04/27/18 14:16		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-07 **Lab ID: 40158028004** Collected: 08/30/17 09:55 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**1710**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**624**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**160J**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	11096-82-5	
PCB, Total	**2500**	ug/kg	501	114	10	04/27/18 10:44	05/03/18 23:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		10	04/27/18 10:44	05/03/18 23:33	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		10	04/27/18 10:44	05/03/18 23:33	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.1**	%	0.030	0.030	1		04/27/18 14:16		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-06 **Lab ID: 40158028005** Collected: 08/30/17 09:54 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**1470**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**580**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**131J**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	11096-82-5	
PCB, Total	**2180**	ug/kg	500	114	10	04/27/18 10:44	05/03/18 23:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		10	04/27/18 10:44	05/03/18 23:49	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		10	04/27/18 10:44	05/03/18 23:49	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-05 **Lab ID: 40158028006** Collected: 08/30/17 09:53 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<68.3**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**367**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.3**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.3**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**1170**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**477**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**125J**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	11096-82-5	
PCB, Total	**2140**	ug/kg	300	68.3	6	04/27/18 10:44	05/04/18 00:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		6	04/27/18 10:44	05/04/18 00:06	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		6	04/27/18 10:44	05/04/18 00:06	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.5**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-04 **Lab ID: 40158028007** Collected: 08/30/17 09:50 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**932**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**385**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**98.6J**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	11096-82-5	
PCB, Total	**1410**	ug/kg	251	57.1	5	04/27/18 10:44	05/04/18 00:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		5	04/27/18 10:44	05/04/18 00:22	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		5	04/27/18 10:44	05/04/18 00:22	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-03 **Lab ID: 40158028008** Collected: 08/30/17 09:48 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**250**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**1080**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**432**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**114J**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	11096-82-5	
PCB, Total	**1870**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 00:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		5	04/27/18 10:44	05/04/18 00:38	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		5	04/27/18 10:44	05/04/18 00:38	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-02 **Lab ID: 40158028009** Collected: 08/30/17 09:47 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.8**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**244J**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.8**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.8**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**912**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**359**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**98.0J**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	11096-82-5	
PCB, Total	**1610**	ug/kg	249	56.8	5	04/27/18 10:44	05/04/18 00:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		5	04/27/18 10:44	05/04/18 00:54	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		5	04/27/18 10:44	05/04/18 00:54	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW5-170830-01-PKSD-01 **Lab ID: 40158028010** Collected: 08/30/17 09:46 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<62.7**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<62.7**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<62.7**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<62.7**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**1110**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**476**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**106J**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	11096-82-5	
PCB, Total	**1690**	ug/kg	275	62.7	5	04/27/18 10:44	05/04/18 01:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		5	04/27/18 10:44	05/04/18 01:10	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		5	04/27/18 10:44	05/04/18 01:10	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW4-170830-01-PKSD-05 **Lab ID: 40158028011** Collected: 08/30/17 09:07 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.6**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**192J**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**841**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**414**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**89.7J**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	11096-82-5	
PCB, Total	**1540**	ug/kg	200	45.6	4	04/27/18 10:44	05/04/18 01:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		4	04/27/18 10:44	05/04/18 01:26	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		4	04/27/18 10:44	05/04/18 01:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW4-170830-01-PKSD-04 **Lab ID: 40158028012** Collected: 08/30/17 09:06 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**233J**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**923**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**452**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**110J**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	11096-82-5	
PCB, Total	**1720**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		5	04/27/18 10:44	05/04/18 01:43	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		5	04/27/18 10:44	05/04/18 01:43	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		04/27/18 14:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW4-170830-01-PKSD-03 **Lab ID: 40158028013** Collected: 08/30/17 09:05 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**276**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**1080**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**533**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**123J**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	11096-82-5	
PCB, Total	**2010**	ug/kg	250	57.0	5	04/27/18 10:44	05/04/18 01:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		5	04/27/18 10:44	05/04/18 01:59	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		5	04/27/18 10:44	05/04/18 01:59	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/27/18 14:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW4-170830-01-PKSD-02 **Lab ID: 40158028014** Collected: 08/30/17 09:03 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<45.7**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.7**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**945**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**409**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**99.9J**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	11096-82-5	
PCB, Total	**1450**	ug/kg	200	45.7	4	04/27/18 10:44	05/04/18 02:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		4	04/27/18 10:44	05/04/18 02:47	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		4	04/27/18 10:44	05/04/18 02:47	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		04/27/18 14:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Sample: SW4-170830-01-PKSD-01 **Lab ID: 40158028015** Collected: 08/30/17 09:00 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<56.4**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**223J**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.4**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.4**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**989**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**459**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**103J**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	11096-82-5	
PCB, Total	**1770**	ug/kg	248	56.4	3	04/27/18 10:44	05/04/18 03:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		3	04/27/18 10:44	05/04/18 03:03	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		3	04/27/18 10:44	05/04/18 03:03	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/27/18 14:18		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

QC Batch: 287158 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158028001, 40158028002, 40158028003, 40158028004, 40158028005, 40158028006, 40158028007, 40158028008, 40158028009, 40158028010, 40158028011, 40158028012, 40158028013, 40158028014, 40158028015

METHOD BLANK: 1679886 | Matrix: Tissue
Associated Lab Samples: 40158028001, 40158028002, 40158028003, 40158028004, 40158028005, 40158028006, 40158028007, 40158028008, 40158028009, 40158028010, 40158028011, 40158028012, 40158028013, 40158028014, 40158028015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	05/03/18 20:19	
Decachlorobiphenyl (S)	%	85	60-140		05/03/18 20:19	
Tetrachloro-m-xylene (S)	%	68	60-140		05/03/18 20:19	

LABORATORY CONTROL SAMPLE: 1679887

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	234	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)	%			88	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1679888

Parameter	Units	40158028015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.4		<76.5			
PCB-1221 (Aroclor 1221)	ug/kg	223J		418			
PCB-1232 (Aroclor 1232)	ug/kg	<56.4		<76.5			
PCB-1242 (Aroclor 1242)	ug/kg	<56.4	420	835	199	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	989		1480			
PCB-1254 (Aroclor 1254)	ug/kg	459		608			
PCB-1260 (Aroclor 1260)	ug/kg	103J		132J			
Decachlorobiphenyl (S)	%				97	60-140	
Tetrachloro-m-xylene (S)	%				94	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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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.: 40158028

SAMPLE DUPLICATE: 1679889

Parameter	Units	40158028015 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.4	<60.6		40	
PCB-1221 (Aroclor 1221)	ug/kg	223J	246J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<56.4	<60.6		40	
PCB-1242 (Aroclor 1242)	ug/kg	<56.4	<60.6		40	
PCB-1248 (Aroclor 1248)	ug/kg	989	1110	12	40	
PCB-1254 (Aroclor 1254)	ug/kg	459	522	13	40	
PCB-1260 (Aroclor 1260)	ug/kg	103J	120J		40	
Decachlorobiphenyl (S)	%	90	93	10		
Tetrachloro-m-xylene (S)	%	91	89	5		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

QC Batch: 287267 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158028001, 40158028002, 40158028003, 40158028004, 40158028005, 40158028006, 40158028007, 40158028008, 40158028009, 40158028010, 40158028011, 40158028012, 40158028013, 40158028014, 40158028015

METHOD BLANK: 1680585 | Matrix: Tissue
Associated Lab Samples: 40158028001, 40158028002, 40158028003, 40158028004, 40158028005, 40158028006, 40158028007, 40158028008, 40158028009, 40158028010, 40158028011, 40158028012, 40158028013, 40158028014, 40158028015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/27/18 14:15	

MATRIX SPIKE SAMPLE: 1686012

Parameter	Units	40158028015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	2.8		3.5			

SAMPLE DUPLICATE: 1680588

Parameter	Units	40158028015 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.8	3.2	11	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

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.

BATCH QUALIFIERS

Batch: 287392

[1] Samples were re-analyzed due to failing continuing calibration verification check.

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158028001	**SW5-170830-01-PKSD-10**	EPA 3541	287158	EPA 8082A Mod	287392
40158028002	**SW5-170830-01-PKSD-09**	EPA 3541	287158	EPA 8082A Mod	287392
40158028003	**SW5-170830-01-PKSD-08**	EPA 3541	287158	EPA 8082A Mod	287392
40158028004	**SW5-170830-01-PKSD-07**	EPA 3541	287158	EPA 8082A Mod	287392
40158028005	**SW5-170830-01-PKSD-06**	EPA 3541	287158	EPA 8082A Mod	287392
40158028006	**SW5-170830-01-PKSD-05**	EPA 3541	287158	EPA 8082A Mod	287392
40158028007	**SW5-170830-01-PKSD-04**	EPA 3541	287158	EPA 8082A Mod	287392
40158028008	**SW5-170830-01-PKSD-03**	EPA 3541	287158	EPA 8082A Mod	287392
40158028009	**SW5-170830-01-PKSD-02**	EPA 3541	287158	EPA 8082A Mod	287392
40158028010	**SW5-170830-01-PKSD-01**	EPA 3541	287158	EPA 8082A Mod	287392
40158028011	**SW4-170830-01-PKSD-05**	EPA 3541	287158	EPA 8082A Mod	287392
40158028012	**SW4-170830-01-PKSD-04**	EPA 3541	287158	EPA 8082A Mod	287392
40158028013	**SW4-170830-01-PKSD-03**	EPA 3541	287158	EPA 8082A Mod	287392
40158028014	**SW4-170830-01-PKSD-02**	EPA 3541	287158	EPA 8082A Mod	287392
40158028015	**SW4-170830-01-PKSD-01**	EPA 3541	287158	EPA 8082A Mod	287392
40158028001	**SW5-170830-01-PKSD-10**	Pace Lipid	287267		
40158028002	**SW5-170830-01-PKSD-09**	Pace Lipid	287267		
40158028003	**SW5-170830-01-PKSD-08**	Pace Lipid	287267		
40158028004	**SW5-170830-01-PKSD-07**	Pace Lipid	287267		
40158028005	**SW5-170830-01-PKSD-06**	Pace Lipid	287267		
40158028006	**SW5-170830-01-PKSD-05**	Pace Lipid	287267		
40158028007	**SW5-170830-01-PKSD-04**	Pace Lipid	287267		
40158028008	**SW5-170830-01-PKSD-03**	Pace Lipid	287267		
40158028009	**SW5-170830-01-PKSD-02**	Pace Lipid	287267		
40158028010	**SW5-170830-01-PKSD-01**	Pace Lipid	287267		
40158028011	**SW4-170830-01-PKSD-05**	Pace Lipid	287267		
40158028012	**SW4-170830-01-PKSD-04**	Pace Lipid	287267		
40158028013	**SW4-170830-01-PKSD-03**	Pace Lipid	287267		
40158028014	**SW4-170830-01-PKSD-02**	Pace Lipid	287267		
40158028015	**SW4-170830-01-PKSD-01**	Pace Lipid	287267		

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40158028

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170830-T11-02
Sample Custodian: SA
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	SW5-170830-01	SW5-170830-01-PKSD-10	8/30/2017	10:03	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
002	SW5-170830-01	SW5-170830-01-PKSD-09	8/30/2017	10:01	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
003	SW5-170830-01	SW5-170830-01-PKSD-08	8/30/2017	9:59	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
004	SW5-170830-01	SW5-170830-01-PKSD-07	8/30/2017	9:55	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
005	SW5-170830-01	SW5-170830-01-PKSD-06	8/30/2017	9:54	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
006	SW5-170830-01	SW5-170830-01-PKSD-05	8/30/2017	9:53	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
007	SW5-170830-01	SW5-170830-01-PKSD-04	8/30/2017	9:50	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
008	SW5-170830-01	SW5-170830-01-PKSD-03	8/30/2017	9:48	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
009	SW5-170830-01	SW5-170830-01-PKSD-02	8/30/2017	9:47	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
010	SW5-170830-01	SW5-170830-01-PKSD-01	8/30/2017	9:46	☐	1	F	WH	☐	☐	☐	☑	☑	☐	

1-ziplock

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature J. R	Signature	Signature	Signature	Signature VIA FED EX	Signature
Print Name Jim Ryan	Print Name D. Bubniak	Print Name D. Bubniak	Print Name D. BUTTS	Print Name D. BUTTS	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE T: -0.6°C	Company PACE	Company Fedex
Date/Time 8/31/17	Date/Time 8/31/17 0950	Date/Time 8/31/17 1120	Date/Time 8/31/17 11:20	Date/Time 10/4/17 16:00	Date/Time 10/5/17 09:00

Allan Hecht Pace 10/5/17 09:00

Date Printed: 8/30/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

40158028

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170830-T11-02
Sample Custodian: SA
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	SW4-170830-01	SW4-170830-01-PKSD-05	8/30/2017	9:07	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
012	SW4-170830-01	SW4-170830-01-PKSD-04	8/30/2017	9:06	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
013	SW4-170830-01	SW4-170830-01-PKSD-03	8/30/2017	9:05	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
014	SW4-170830-01	SW4-170830-01-PKSD-02	8/30/2017	9:03	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
015	SW4-170830-01	SW4-170830-01-PKSD-01	8/30/2017	9:00	☑	1	F	WH	☐	☐	☐	☑	☑	☐	

OK 10/5/17

1. ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FED EX →	Signature
Print Name Jim Ryan	Print Name D. Busnich	Print Name D. Busnich	Print Name D. BUTTS	Print Name D. BUTTS	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE T: -0.6°C	Company PACE	Company Fedex
Date/Time 8/31/17	Date/Time 8/31/17 0850	Date/Time 8/31/17 1120	Date/Time 8/31/17 11:20	Date/Time 10/4/17 16:00	Date/Time 10/5/17 0940

Alexa Aleeher Pace 10/5/17 0940

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

Pace Analytical

Sample Condition Upon Receipt

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

Project # **WO# : 40158028**

40158028

Client Name: GE

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

Tracking #: 409994704803

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

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

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

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

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

Temp Blank Present: ☐ yes ☑ no CMS 12314

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

Person examining contents:
Date: 10/5/17
Initials: CAP

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

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

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40158028
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

C. Surrogates: All QAPP specified acceptance criteria were met.

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 SW4-170830-01-PKSD-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 1:4 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 MS results on the final report.

E. Samples: Sample analyses proceeded normally. ZB-1ms is the quantitation column.
F. Sample Duplicate: Sample SW4-170830-01-PKSD-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. 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: None required for this SDG.
I. Comments: Due to rounding differences in the software programs used, the values found on the quantitation reports may not match the values found on the sample Form 1s.

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

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

Name: Leigh A. Begalske Position: Quality Assurance Auditor

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158028 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1679886	1679886BLANK	85	68
1679887	1679887LCS	88	78
1679888	1679888MS	97	94
1679889	1679889DUP	93	89
40158028001	SW5-170830-01-PKSD-10	93	87
40158028002	SW5-170830-01-PKSD-09	103	95
40158028003	SW5-170830-01-PKSD-08	94	91
40158028004	SW5-170830-01-PKSD-07	99	92
40158028005	SW5-170830-01-PKSD-06	104	94
40158028006	SW5-170830-01-PKSD-05	101	95
40158028007	SW5-170830-01-PKSD-04	101	98
40158028008	SW5-170830-01-PKSD-03	89	85
40158028009	SW5-170830-01-PKSD-02	94	91
40158028010	SW5-170830-01-PKSD-01	97	91
40158028011	SW4-170830-01-PKSD-05	94	94
40158028012	SW4-170830-01-PKSD-04	99	95
40158028013	SW4-170830-01-PKSD-03	100	97
40158028014	SW4-170830-01-PKSD-02	99	97
40158028015	SW4-170830-01-PKSD-01	90	91

	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: 04/27/2018

Instrument: 40GCSK

Lab File ID: 050318.B\050318081.D

Lab Sample ID: 1679887LCS

Date Analyzed (1): 05/03/2018

LCS Lot No: 192096

SDG No.: 40158028

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	234	94	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: 04/27/2018

Instrument: 40GCSK

Parent Sample ID: SW4-170830-01-PKSD-01

Matrix Spike - Sample No: 1679888MS

Date Analyzed (1): 05/04/2018

Lab File ID: 050318.B\050318131.D

SDG No.: 40158028

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	420	<56.4	835	199	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/27/2018

Instrument 40GCSK

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

Duplicate Sample No: 40158028015DUP

Date Analyzed: 05/04/2018

Lab File ID: 050318.B\050318133.D

SDG No.: 40158028

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<56.4	<60.6		0-40
PCB-1221 (Aroclor 1221)	223J	246J		0-40
PCB-1232 (Aroclor 1232)	<56.4	<60.6		0-40
PCB-1242 (Aroclor 1242)	<56.4	<60.6		0-40
PCB-1248 (Aroclor 1248)	989	1110	12	0-40
PCB-1254 (Aroclor 1254)	459	522	13	0-40
PCB-1260 (Aroclor 1260)	103J	120J		0-40

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1679886BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158028 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1679886

Lab File ID: 050318.B\050318079.D Date Analyzed: 05/03/2018 Time:20:19

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1679887LCS	1679887	050318.B\050318081.D	05/03/2018 20:35
SW5-170830-01-PKSD-10	40158028001	050318.B\050318093.D	05/03/2018 22:12
SW5-170830-01-PKSD-09	40158028002	050318.B\050318095.D	05/03/2018 22:29
SW5-170830-01-PKSD-08	40158028003	050318.B\050318097.D	05/03/2018 22:45
SW5-170830-01-PKSD-07	40158028004	050318.B\050318103.D	05/03/2018 23:33
SW5-170830-01-PKSD-06	40158028005	050318.B\050318105.D	05/03/2018 23:49
SW5-170830-01-PKSD-05	40158028006	050318.B\050318107.D	05/04/2018 00:06
SW5-170830-01-PKSD-04	40158028007	050318.B\050318109.D	05/04/2018 00:22
SW5-170830-01-PKSD-03	40158028008	050318.B\050318111.D	05/04/2018 00:38
SW5-170830-01-PKSD-02	40158028009	050318.B\050318113.D	05/04/2018 00:54
SW5-170830-01-PKSD-01	40158028010	050318.B\050318115.D	05/04/2018 01:10
SW4-170830-01-PKSD-05	40158028011	050318.B\050318117.D	05/04/2018 01:26
SW4-170830-01-PKSD-04	40158028012	050318.B\050318119.D	05/04/2018 01:43
SW4-170830-01-PKSD-03	40158028013	050318.B\050318121.D	05/04/2018 01:59
SW4-170830-01-PKSD-02	40158028014	050318.B\050318127.D	05/04/2018 02:47
SW4-170830-01-PKSD-01	40158028015	050318.B\050318129.D	05/04/2018 03:03
1679888MS	1679888	050318.B\050318131.D	05/04/2018 03:19
1679889DUP	1679889	050318.B\050318133.D	05/04/2018 03:36

SAMPLE NO.

SW5-170830-01-PKSD-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028001
Date Analyzed: 05/03/2018 22:12
Lab File ID: 050318.B\050318093.D
Initial wt/vol: 9.9989 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)	<68.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<68.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<68.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<68.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	1300	
11097-69-1	PCB-1254 (Aroclor 1254)	557	
11096-82-5	PCB-1260 (Aroclor 1260)	106	J
1336-36-3	PCB, Total	1960	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318093.D
Lab Smp Id: 40158028001 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028001 x6,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 93
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	9.999	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.475	134832	108711	0.806	0.34		
2.549	1744965	1762244	1.010	4.49	$ 2 Tetrachloro-m-xylene	
2.863	18691	16866	0.902	0.04		
2.925	67721	58482	0.864	0.17		
3.047	20300	12064	0.594	0.05		
3.089	10615	9824	0.925	0.02		
3.130	123230	119106	0.967	0.31		
3.395	141813	136495	0.963	0.36		
3.423	212507	199085	0.937	0.54		
3.513	214434	208623	0.973	0.55		
3.599	339342	324037	0.955	0.87		
3.724	34150	27857	0.816	0.08		
3.812	301688	288702	0.957	0.77		
3.838	151614	139665	0.921	0.39		
3.895	740749	777228	1.049	1.90		
3.907	712994	690358	0.968	1.83		
4.020	251393	197326	0.785	0.64		
4.077	268974	240490	0.894	0.69		
4.142	120767	107350	0.889	0.31		
4.298	1878277	1718210	0.915	4.84		
4.345	1939517	1827087	0.942	4.99	6 Aroclor 1248	BA
4.376	1912977	1526488	0.798	4.92		
4.502	439202	419256	0.955	1.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.537	526621	467066	0.887	1.35	
4.630	1353942	1233397	0.911	3.48	6 Aroclor 1248
4.673	131057	111881	0.854	0.33	
4.703	76806	58679	0.764	0.19	
4.765	122219	104455	0.855	0.31	
4.820	150409	108933	0.724	0.38	
4.854	249226	220777	0.886	0.64	
4.898	847262	791867	0.935	2.18	6 Aroclor 1248
4.932	921782	871358	0.945	2.37	
4.964	2207331	1276357	0.578	6.20	6 Aroclor 1248
5.042	471041	400507	0.850	1.21	
5.124	817231	736554	0.901	2.10	6 Aroclor 1248
5.187	752692	652027	0.866	1.93	
5.246	1211018	1056210	0.872	3.12	7 Aroclor 1254
5.297	972407	842040	0.866	2.50	
5.369	131853	120216	0.912	0.33	
5.394	146365	116524	0.796	0.37	
5.450	381299	336201	0.882	0.98	
5.493	797828	725148	0.909	2.05	7 Aroclor 1254
5.533	631848	560534	0.887	1.62	
5.567	116630	114521	0.982	0.30	
5.596	1643615	1415173	0.861	4.23	7 Aroclor 1254
5.661	78460	64915	0.827	0.20	
5.692	194468	162141	0.834	0.50	
5.761	388194	357026	0.920	1.00	
5.798	169361	136704	0.807	0.43	
5.828	282833	210859	0.746	0.72	
5.876	1770619	1339190	0.756	4.56	
5.971	187626	129039	0.688	0.48	
6.016	125961	97662	0.775	0.32	
6.079	267013	237614	0.890	0.68	
6.112	808195	720595	0.892	2.08	7 Aroclor 1254
6.141	876876	771008	0.879	2.25	
6.255	219451	141047	0.643	0.56	
6.314	71348	86062	1.206	0.18	
6.329	133880	103956	0.776	0.34	
6.387	1453607	1227692	0.845	3.74	7 Aroclor 1254
6.420	142912	126387	0.884	0.36	
6.461	68098	55306	0.812	0.17	
6.518	138784	109380	0.788	0.35	
6.597	350277	322744	0.921	0.90	
6.624	357798	265224	0.741	0.92	
6.690	44474	35914	0.808	0.11	
6.748	26052	22221	0.853	0.06	
6.804	112150	96819	0.863	0.28	
6.847	128687	108351	0.842	0.33	
6.888	185354	162812	0.878	0.47	
6.927	96291	63644	0.661	0.24	
7.001	27420	18778	0.685	0.07	
7.030	84650	68743	0.812	0.21	
7.091	300651	262957	0.875	0.77	8 Aroclor 1260
7.121	47230	36518	0.773	0.12	
7.339	190690	161525	0.847	0.49	8 Aroclor 1260
7.369	95957	66624	0.694	0.24	
7.423	59655	28661	0.480	0.15	
7.476	119676	112825	0.943	0.30	
7.529	178024	128676	0.723	0.45	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.618	19695	14055	0.714	0.05	
7.664	15203	12987	0.854	0.03	
7.748	24716	28471	1.152	0.06	
7.782	47248	41809	0.885	0.12	
7.811	50311	34329	0.682	0.12	
7.884	28492	15897	0.558	0.07	
7.986	97018	75645	0.780	0.25	8 Aroclor 1260
8.135	37372	25768	0.689	0.09	
8.360	95966	83566	0.871	0.24	
8.444	17000	12001	0.706	0.04	
8.657	2063442	1790704	0.868	5.31	$ 12 Decachlorobiphenyl
9.004	26902	16721	0.622	0.06	
9.256	18874	18758	0.994	0.04	
9.529	29113	21872	0.751	0.07	
9.746	9763	4109	0.421	0.02	
	38805074	33472290		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318093.D
Lab Smp Id: 40158028001 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028001 x6,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 93
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	9.999	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	1744965	0.01449	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			
4.344	4.343	0.001	1939516	0.81310	2400	0.00- 20.00	100.00(M)	BA
4.629	4.630	-0.001	1353942	0.31877	960	0.00- 20.00	69.81	BA
4.897	4.898	-0.001	847262	0.41593	1200	0.00- 20.00	43.68	BA
4.964	4.963	0.001	2207330	0.40299	1200	0.00- 20.00	113.81	BA
5.123	5.123	0.000	817231	0.21601	650	0.00- 20.00	42.14	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1211017	0.21473	640	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	797828	0.17107	510	0.00- 20.00	65.88	BA
5.596	5.596	0.000	1643615	0.19197	580	0.00- 20.00	135.72	BA
6.112	6.113	-0.001	808195	0.15212	460	0.00- 20.00	66.74	BA
6.387	6.387	0.000	1453607	0.19855	600	0.00- 20.00	120.03	BA
Average of Peak Concentrations =					560			
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	300651	0.02555	77	0.00- 20.00	20.68	BA
7.338	7.338	0.000	190689	0.03371	100	0.00- 20.00	13.12	BA
7.528	7.529	-0.001	178024	0.05207	160	0.00- 20.00	12.25	BA
7.985	7.987	-0.002	97018	0.03063	92	0.00- 20.00	6.67	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2063441	0.01549	46			

QC Flag Legend

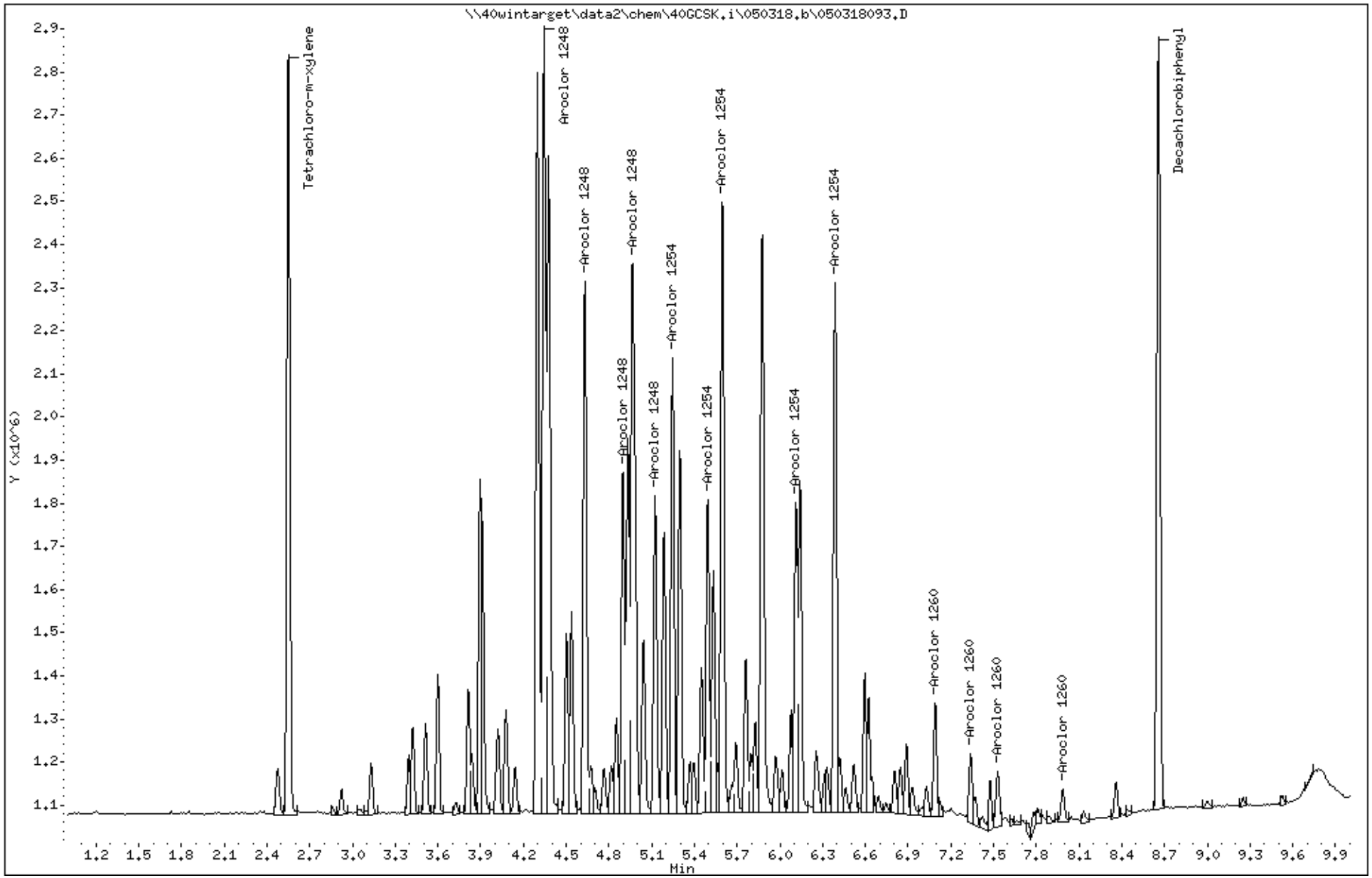
M - Compound response manually integrated.

Review Codes Legend

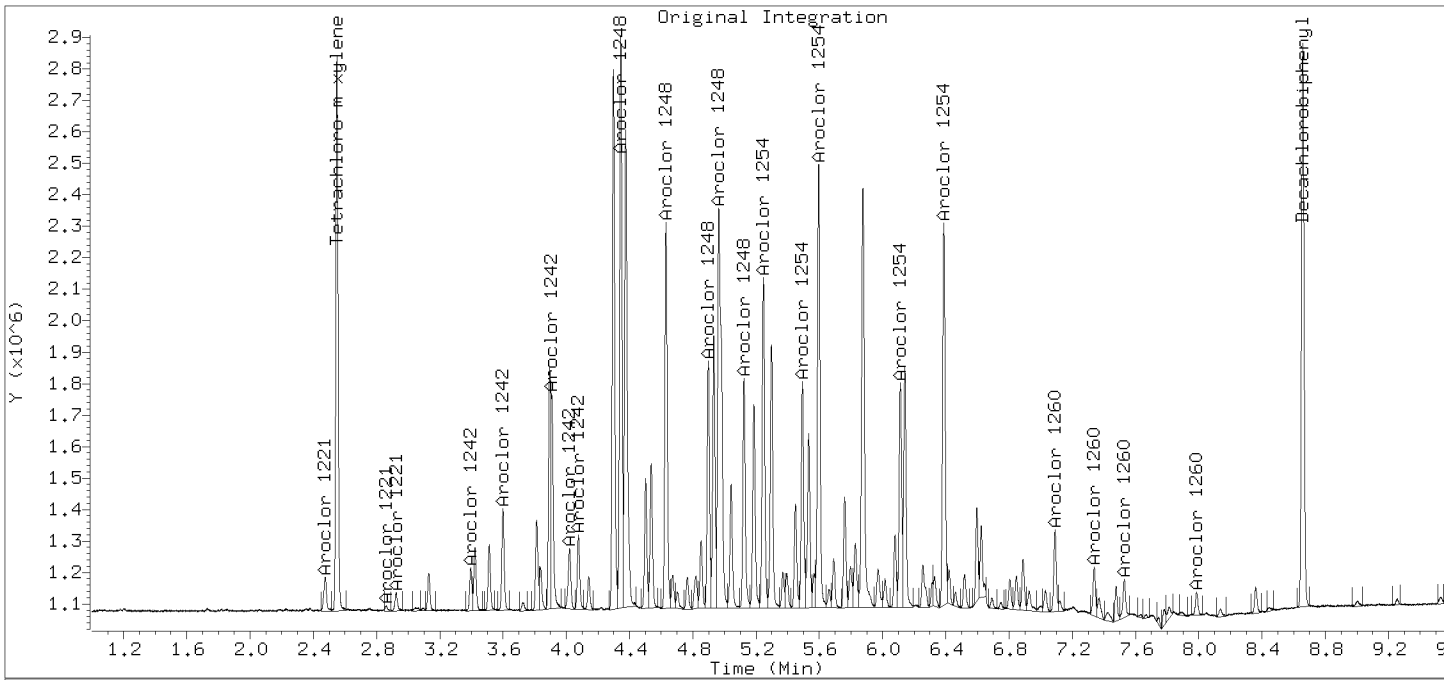
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

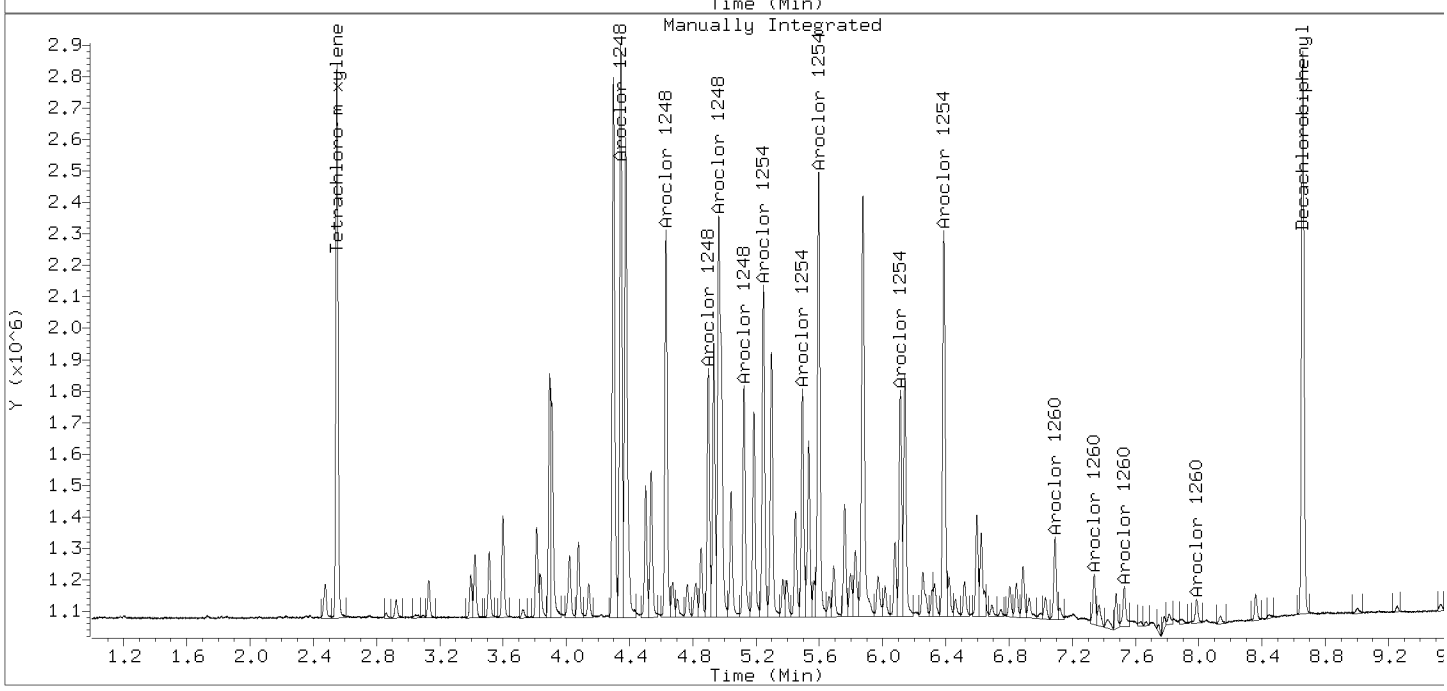
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318093.D
Date : 03-MAY-2018 22:12
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028001 x6,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318093.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 22:12 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	141812	0	
Aroclor 1016	141812	0	
Aroclor 1016	141812	0	
Aroclor 1016	141812	0	
Aroclor 1016	141812	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	67721	0	
Aroclor 1232	67721	0	
Aroclor 1232	67721	0	
Aroclor 1232	67721	0	

Aroclor 1232	67721	0	
Aroclor 1242	141812	0	
Aroclor 1242	141812	0	
Aroclor 1242	141812	0	
Aroclor 1242	141812	0	
Aroclor 1242	141812	0	
Aroclor 1248	1919883	1939516	BA
Aroclor 1248	1919883	1939516	BA
Aroclor 1248	1919883	1939516	BA
Aroclor 1248	1919883	1939516	BA
Aroclor 1248	1919883	1939516	BA
Aroclor 1254	1190874	1211017	BA
Aroclor 1254	1190874	1211017	BA
Aroclor 1254	1190874	1211017	BA
Aroclor 1254	1190874	1211017	BA
Aroclor 1254	1190874	1211017	BA
Aroclor 1260	1414167	0	BA
Aroclor 1260	1414167	0	BA
Aroclor 1260	1414167	0	BA
Aroclor 1260	1414167	0	BA
Aroclor 1260	1414167	0	BA
Tetrachloro-m-xylene	1744965	1744965	
Decachlorobiphenyl	2063441	2063441	

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SAMPLE NO.

SW5-170830-01-PKSD-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028002
Date Analyzed: 05/03/2018 22:29
Lab File ID: 050318.B\050318095.D
Initial wt/vol: 9.9846 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)	1040	
11097-69-1	PCB-1254 (Aroclor 1254)	422	
11096-82-5	PCB-1260 (Aroclor 1260)	119	J
1336-36-3	PCB, Total	1580	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318095.D
Lab Smp Id: 40158028002 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028002 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 95
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	9.985	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.732	12640	10331	0.817	0.03		
1.820	14349	12305	0.858	0.03		
1.847	10626	11706	1.102	0.02		
2.352	10788	12367	1.146	0.02		
2.377	13945	14417	1.034	0.03		
2.475	182696	147670	0.808	0.44		
2.549	2281539	2315735	1.015	5.60	$ 2 Tetrachloro-m-xylene	
2.860	26421	21275	0.805	0.06		
2.924	81155	74372	0.916	0.19		
3.092	10347	12373	1.196	0.02		
3.130	170249	162840	0.956	0.41		
3.395	144126	143655	0.997	0.35		
3.422	240318	218384	0.909	0.59		
3.513	354246	330226	0.932	0.86		
3.599	432486	390496	0.903	1.06		
3.725	44298	36232	0.818	0.10		
3.813	359981	348318	0.968	0.88		
3.837	166915	147686	0.885	0.40		
3.894	1577906	873040	0.553	3.87		
4.020	332865	269654	0.810	0.81		
4.076	307942	263840	0.857	0.75		
4.142	137760	117985	0.856	0.33		
4.221	26308	21205	0.806	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1825006	1628459	0.892	4.48	
4.344	1913881	1776126	0.928	4.70	6 Aroclor 1248
4.375	2080198	1696640	0.816	5.10	
4.430	42681	30123	0.706	0.10	
4.502	620073	584422	0.943	1.52	
4.537	559992	499268	0.892	1.37	
4.630	1320309	1212970	0.919	3.24	6 Aroclor 1248
4.674	168540	142560	0.846	0.41	
4.704	144122	117284	0.814	0.35	
4.765	139301	118985	0.854	0.34	
4.820	185323	135059	0.729	0.45	
4.853	264366	235700	0.892	0.64	
4.897	794310	733001	0.923	1.95	6 Aroclor 1248
4.933	821924	763443	0.929	2.01	
4.965	2011007	1097772	0.546	4.93	6 Aroclor 1248
5.043	429668	359932	0.838	1.05	
5.123	786851	683183	0.868	1.93	6 Aroclor 1248
5.185	762584	672147	0.881	1.87	
5.246	1153795	978393	0.848	2.83	7 Aroclor 1254
5.298	953304	813703	0.854	2.34	
5.370	120305	115201	0.958	0.29	
5.394	218304	170186	0.780	0.53	
5.450	328592	290005	0.883	0.80	
5.493	762736	697995	0.915	1.87	7 Aroclor 1254
5.533	630538	533220	0.846	1.54	
5.568	103614	100546	0.970	0.25	
5.595	1431120	1243656	0.869	3.51	7 Aroclor 1254
5.662	78784	71624	0.909	0.19	
5.690	198803	169389	0.852	0.48	
5.761	364418	337672	0.927	0.89	
5.797	201638	152229	0.755	0.49	
5.827	262696	200200	0.762	0.64	
5.876	1507594	1217145	0.807	3.70	
5.908	105696	67004	0.634	0.25	
5.973	177428	128380	0.724	0.43	
6.016	140185	108722	0.776	0.34	
6.079	286786	251925	0.878	0.70	
6.112	631111	561046	0.889	1.54	7 Aroclor 1254
6.141	1022667	850009	0.831	2.51	
6.256	218151	138411	0.634	0.53	
6.315	69567	82834	1.191	0.17	
6.329	134373	104549	0.778	0.33	
6.387	1386391	1164812	0.840	3.40	7 Aroclor 1254
6.420	126134	111053	0.880	0.30	
6.460	68351	53862	0.788	0.16	
6.518	148739	113902	0.766	0.36	
6.597	336060	290402	0.864	0.82	
6.624	278554	255144	0.916	0.68	
6.648	92297	86737	0.940	0.22	
6.691	45451	40164	0.884	0.11	
6.748	33888	23364	0.689	0.08	
6.804	94714	80549	0.850	0.23	
6.845	128944	107335	0.832	0.31	
6.888	178767	151936	0.850	0.43	
6.927	105019	71201	0.678	0.25	
6.998	26830	20608	0.768	0.06	
7.029	104490	81970	0.784	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.091	380732	339766	0.892	0.93	8 Aroclor 1260
7.120	31553	38172	1.210	0.07	
7.338	220965	192141	0.870	0.54	8 Aroclor 1260
7.368	107507	71628	0.666	0.26	
7.424	61876	31562	0.510	0.15	
7.475	129946	121503	0.935	0.31	
7.528	220320	165378	0.751	0.54	8 Aroclor 1260
7.561	18914	23305	1.232	0.04	
7.669	18389	15309	0.832	0.04	
7.704	23410	15250	0.651	0.05	
7.747	16776	20466	1.220	0.04	
7.778	57626	51653	0.896	0.14	
7.811	58097	41310	0.711	0.14	
7.886	36514	21708	0.595	0.08	
7.986	169879	136536	0.804	0.41	8 Aroclor 1260
8.046	25006	17108	0.684	0.06	
8.139	35846	29528	0.824	0.08	
8.361	144309	126950	0.880	0.35	
8.445	14112	11300	0.801	0.03	
8.657	2748910	2390008	0.869	7.28	$ 12 Decachlorobiphenyl
9.003	28421	21696	0.763	0.06	
9.257	34752	29437	0.847	0.08	
9.528	68222	43760	0.641	0.16	
	40718965	34435743		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318095.D
Lab Smp Id: 40158028002 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028002 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 95
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	9.985	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.549	2.549	0.000	2281538	0.01894	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	1913880	0.80235	2000	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1320308	0.31085	780	0.00- 20.00	68.99	BA
4.897	4.898	-0.001	794309	0.38993	980	0.00- 20.00	41.50	BA
4.964	4.963	0.001	2011006	0.36715	920	0.00- 20.00	105.07	BA
5.123	5.123	0.000	786850	0.20798	520	0.00- 20.00	41.11	BA
Average of Peak Concentrations =					1000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1153795	0.20459	510	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	762736	0.16355	410	0.00- 20.00	66.11	BA
5.595	5.596	-0.001	1431119	0.16715	420	0.00- 20.00	124.04	BA
6.111	6.113	-0.002	631111	0.11879	300	0.00- 20.00	54.70	BA
6.387	6.387	0.000	1386390	0.18937	470	0.00- 20.00	120.16	BA
Average of Peak Concentrations =					420			
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
7.091	7.090	0.001	380731	0.03235	81	0.00- 20.00	29.70	CO
7.338	7.338	0.000	220964	0.03907	98	0.00- 20.00	15.94	CO
7.528	7.529	-0.001	220320	0.06444	160	0.00- 20.00	17.23	CO
7.985	7.987	-0.002	169879	0.05364	130	0.00- 20.00	12.25	CO
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2748910	0.02064	52			

QC Flag Legend

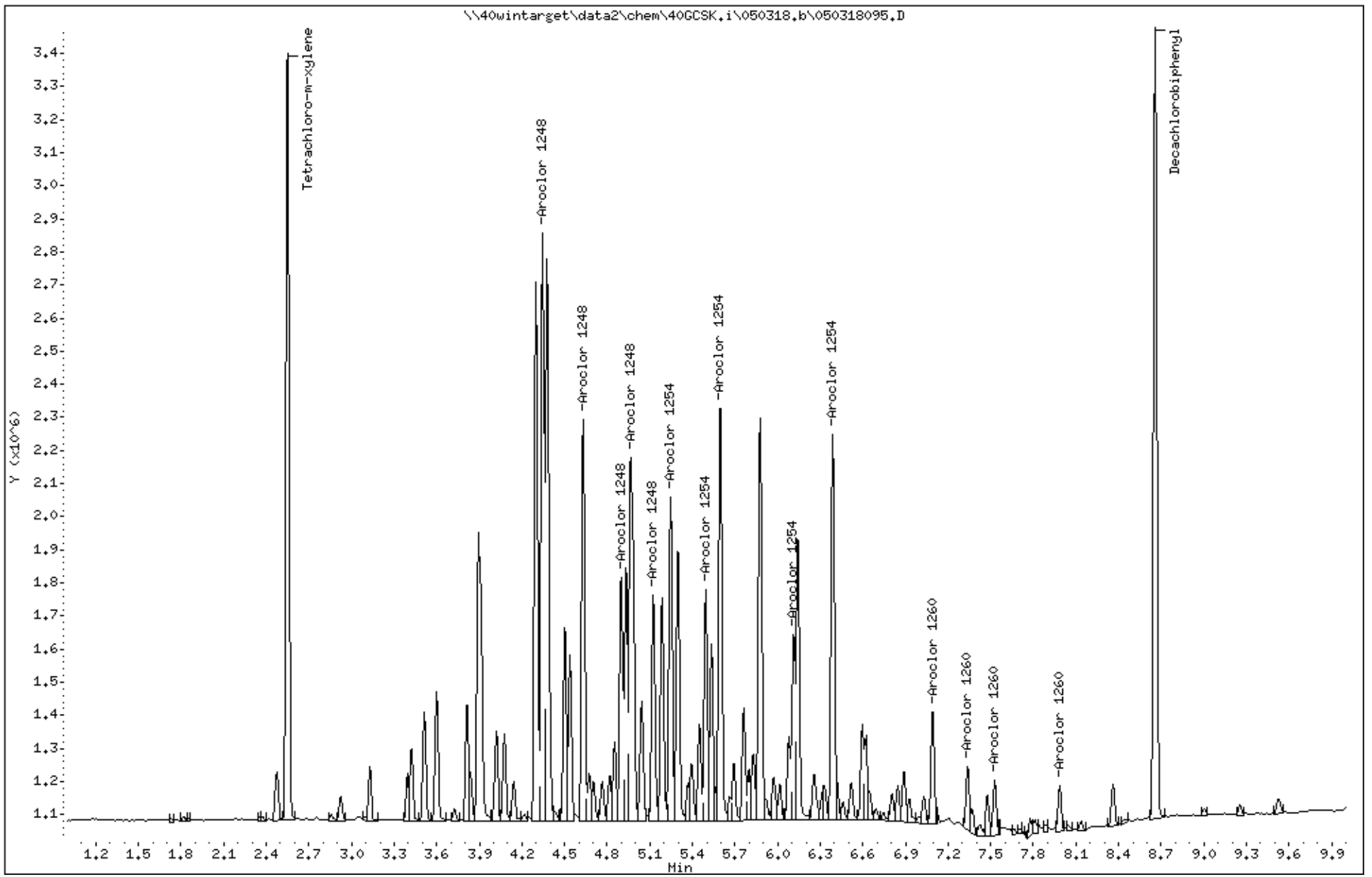
M - Compound response manually integrated.

Review Codes Legend

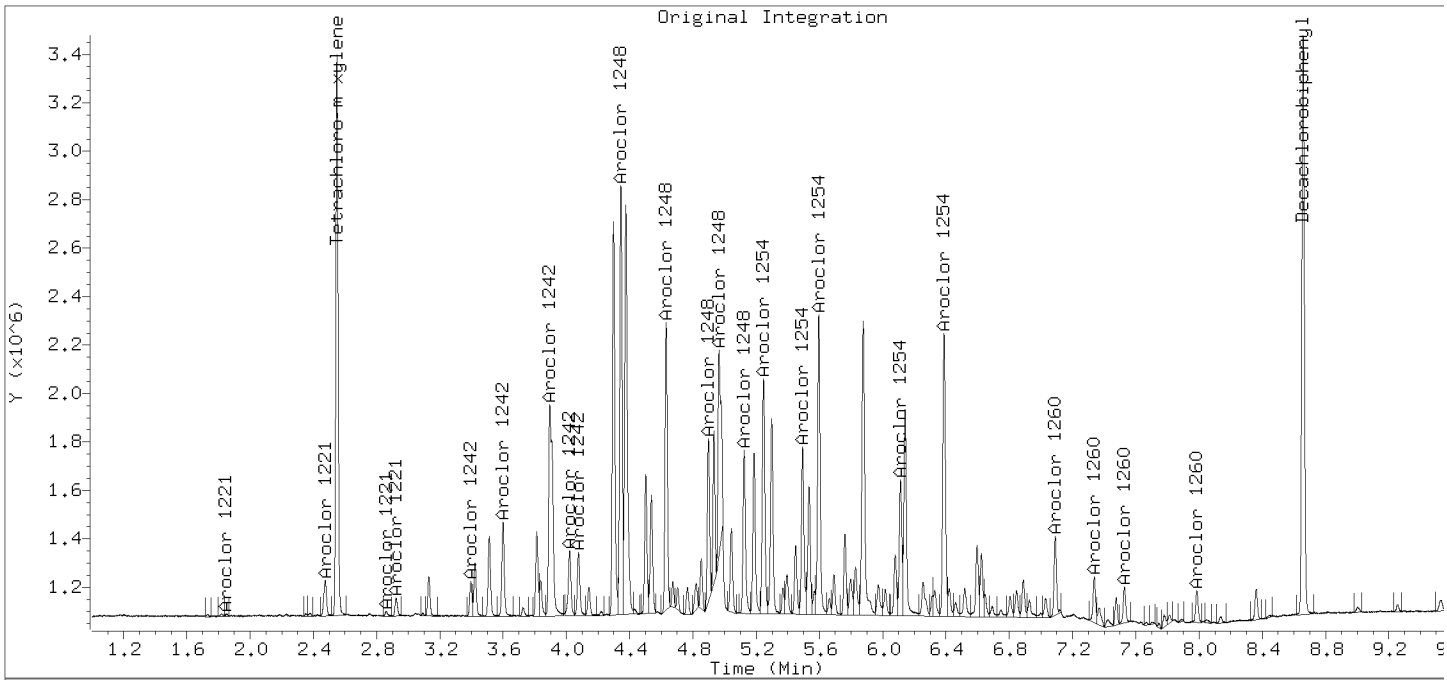
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

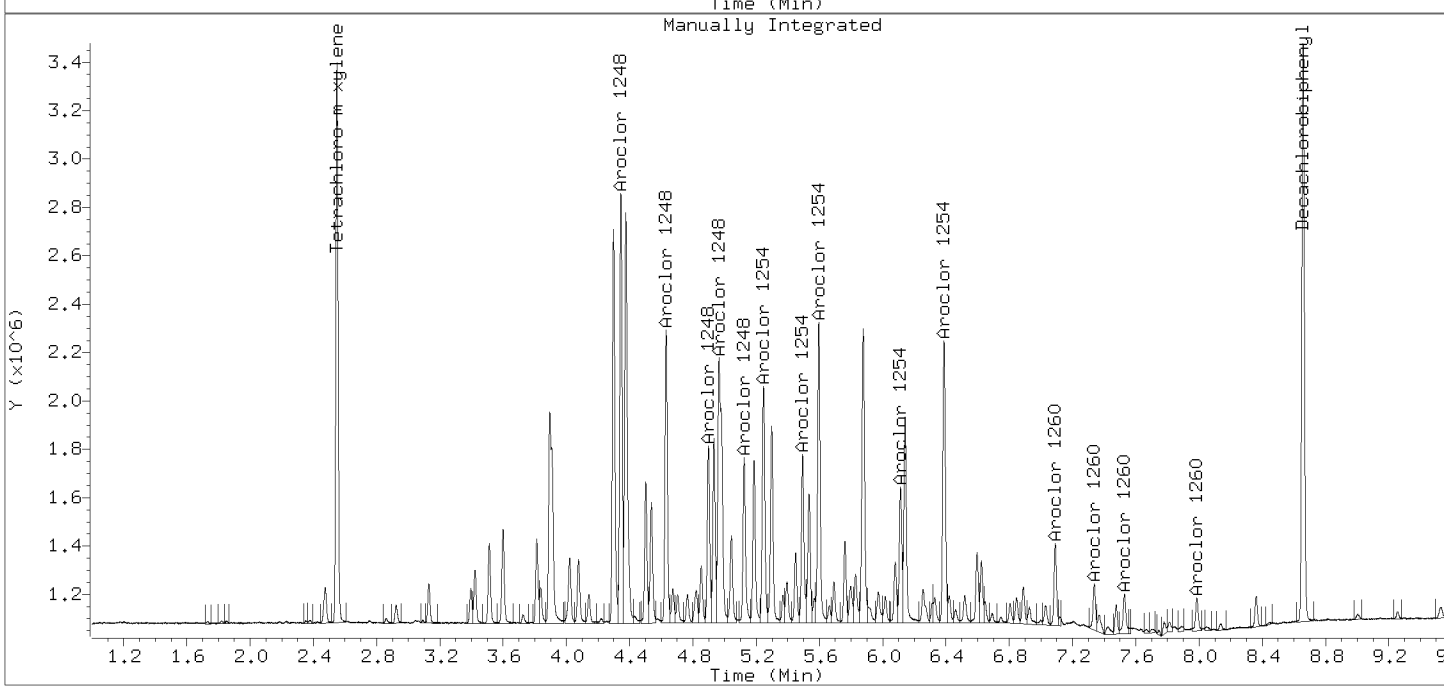
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318095.D
Date : 03-MAY-2018 22:29
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028002 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318095.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 22:29 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	144126	0	
Aroclor 1016	144126	0	
Aroclor 1016	144126	0	
Aroclor 1016	144126	0	
Aroclor 1016	144126	0	
Aroclor 1221	10625	0	
Aroclor 1221	10625	0	
Aroclor 1221	10625	0	
Aroclor 1221	10625	0	
Aroclor 1221	10625	0	
Aroclor 1232	81155	0	
Aroclor 1232	81155	0	
Aroclor 1232	81155	0	
Aroclor 1232	81155	0	

Aroclor 1232	81155	0	
Aroclor 1242	144126	0	
Aroclor 1242	144126	0	
Aroclor 1242	144126	0	
Aroclor 1242	144126	0	
Aroclor 1242	144126	0	
Aroclor 1248	1896770	1913880	BA
Aroclor 1248	1896770	1913880	BA
Aroclor 1248	1896770	1913880	BA
Aroclor 1248	1896770	1913880	BA
Aroclor 1248	1896770	1913880	BA
Aroclor 1254	1126334	1153795	BA
Aroclor 1254	1126334	1153795	BA
Aroclor 1254	1126334	1153795	BA
Aroclor 1254	1126334	1153795	BA
Aroclor 1254	1126334	1153795	BA
Aroclor 1260	1394481	0	CO
Aroclor 1260	1394481	0	CO
Aroclor 1260	1394481	0	CO
Aroclor 1260	1394481	0	CO
Aroclor 1260	1394481	0	CO
Tetrachloro-m-xylene	2281538	2281538	
Decachlorobiphenyl	2748910	2748910	

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SAMPLE NO.

SW5-170830-01-PKSD-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028003
Date Analyzed: 05/03/2018 22:45
Lab File ID: 050318.B\050318097.D
Initial wt/vol: 7.8617 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)	<58.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	<58.0	U
11141-16-5	PCB-1232 (Aroclor 1232)	<58.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<58.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	912	
11097-69-1	PCB-1254 (Aroclor 1254)	405	
11096-82-5	PCB-1260 (Aroclor 1260)	100	J
1336-36-3	PCB, Total	1420	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318097.D
Lab Smp Id: 40158028003 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028003 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 97
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	7.862	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.730	16605	11403	0.687	0.04		
2.188	10647	10304	0.968	0.02		
2.229	12669	13784	1.088	0.03		
2.355	14241	13151	0.923	0.03		
2.376	19359	19882	1.027	0.05		
2.475	151064	113522	0.751	0.40		
2.549	2744358	2754152	1.004	7.33	$ 2 Tetrachloro-m-xylene	
2.858	21301	17076	0.802	0.05		
2.924	59784	56388	0.943	0.15		
3.130	127912	126784	0.991	0.34		
3.396	114147	112118	0.982	0.30		
3.423	177879	169074	0.951	0.47		
3.512	241822	229468	0.949	0.64		
3.599	305845	288885	0.945	0.81		
3.727	38789	32220	0.831	0.10		
3.813	273478	261964	0.958	0.73		
3.836	127860	109358	0.855	0.34		
3.895	1230003	677410	0.551	3.28		
4.020	252895	197859	0.782	0.67		
4.076	264451	229243	0.867	0.70		
4.141	115027	104326	0.907	0.30		
4.219	18989	14531	0.765	0.05		
4.298	1616061	1480862	0.916	4.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.344	1665492	1530147	0.919	4.45	6 Aroclor 1248
4.376	1834474	1489626	0.812	4.90	
4.501	414711	388602	0.937	1.10	
4.536	469379	403853	0.860	1.25	
4.631	1156552	1059507	0.916	3.09	6 Aroclor 1248
4.672	149715	127134	0.849	0.40	
4.703	81593	65398	0.802	0.21	
4.764	123584	107817	0.872	0.33	
4.820	160766	118401	0.736	0.42	
4.853	230249	204919	0.890	0.61	
4.898	667596	625822	0.937	1.78	6 Aroclor 1248
4.933	660913	613201	0.928	1.76	
4.965	1759433	930792	0.529	4.70	6 Aroclor 1248
5.042	489085	414468	0.847	1.30	
5.123	652783	562076	0.861	1.74	6 Aroclor 1248
5.186	736817	653836	0.887	1.97	
5.247	1093635	920734	0.842	2.92	7 Aroclor 1254
5.297	843364	742077	0.880	2.25	
5.370	115096	108479	0.943	0.30	
5.396	162510	124607	0.767	0.43	
5.449	310645	273211	0.879	0.83	
5.493	697768	642082	0.920	1.86	7 Aroclor 1254
5.535	536116	459693	0.857	1.43	
5.567	126662	119652	0.945	0.33	
5.597	1351374	1192158	0.882	3.61	7 Aroclor 1254
5.661	77660	68043	0.876	0.20	
5.692	172943	143652	0.831	0.46	
5.760	384572	354188	0.921	1.02	
5.797	166136	132541	0.798	0.44	
5.829	260362	200019	0.768	0.69	
5.876	1569647	1168120	0.744	4.19	
5.971	181422	130525	0.719	0.48	
6.017	143608	109186	0.760	0.38	
6.079	279613	256691	0.918	0.74	
6.113	633111	550792	0.870	1.69	7 Aroclor 1254
6.142	881342	741091	0.841	2.35	
6.255	228424	135089	0.591	0.61	
6.315	69117	78373	1.134	0.18	
6.329	128252	99986	0.780	0.34	
6.388	1290096	1075911	0.834	3.45	7 Aroclor 1254
6.420	115313	105118	0.912	0.30	
6.461	68123	49290	0.724	0.18	
6.519	156824	125440	0.800	0.41	
6.596	345809	315805	0.913	0.92	
6.623	239733	214042	0.893	0.64	
6.646	81936	82076	1.002	0.21	
6.693	36332	30304	0.834	0.09	
6.746	24759	22072	0.891	0.06	
6.805	123359	108378	0.879	0.32	
6.846	136143	116616	0.857	0.36	
6.890	160968	137451	0.854	0.43	
6.926	106438	70429	0.662	0.28	
6.997	30433	21156	0.695	0.08	
7.031	98443	77327	0.785	0.26	
7.090	325867	283031	0.869	0.87	8 Aroclor 1260
7.118	33144	39291	1.185	0.08	
7.207	50181	27840	0.555	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.275	13035	10497	0.805	0.03	
7.338	181999	156416	0.859	0.48	8 Aroclor 1260
7.368	98213	65540	0.667	0.26	
7.422	50375	28094	0.558	0.13	
7.476	121187	116057	0.958	0.32	
7.529	209110	145220	0.694	0.55	8 Aroclor 1260
7.666	15546	14230	0.915	0.04	
7.744	28887	27948	0.967	0.07	
7.779	46340	44659	0.964	0.12	
7.812	62495	42894	0.686	0.16	
7.886	29654	17447	0.588	0.07	
7.987	116717	95098	0.815	0.31	8 Aroclor 1260
8.137	30747	23907	0.778	0.08	
8.359	117748	101488	0.862	0.31	
8.444	14643	10515	0.718	0.03	
8.657	3134819	2769382	0.883	8.90	$ 12 Decachlorobiphenyl
9.001	24768	13930	0.562	0.06	
9.254	23410	21566	0.921	0.06	
9.526	25929	19417	0.749	0.06	
	37391228	31716234		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318097.D
Lab Smp Id: 40158028003 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 22:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028003 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 97
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	7.862	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	2744357	0.02279		58		

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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	1665492	0.69822	1800	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1156551	0.27229	690	0.00- 20.00	69.44	BA
4.897	4.898	-0.001	667595	0.32773	830	0.00- 20.00	40.08	BA
4.964	4.963	0.001	1759432	0.32122	820	0.00- 20.00	105.64	BA
5.123	5.123	0.000	652783	0.17254	440	0.00- 20.00	39.19	BA
Average of Peak Concentrations =					910			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1093635	0.19392	490	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	697767	0.14961	380	0.00- 20.00	63.80	BA
5.596	5.596	0.000	1351373	0.15783	400	0.00- 20.00	123.57	BA
6.113	6.113	0.000	633110	0.11917	300	0.00- 20.00	57.89	BA
6.388	6.387	0.001	1290096	0.17622	450	0.00- 20.00	117.96	BA
Average of Peak Concentrations =					400			
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	325866	0.02769	70	0.00- 20.00	27.78	CO
7.337	7.338	-0.001	181998	0.03218	82	0.00- 20.00	14.11	CO
7.529	7.529	0.000	209109	0.06116	160	0.00- 20.00	16.21	CO
7.986	7.987	-0.001	116717	0.03685	94	0.00- 20.00	9.05	CO
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	3134819	0.02354	60			

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\050318.b\050318097.D

Date : 03-MAY-2018 22:45

Client ID: SW5-170830-01-PKSD-

Instrument: 40GCSK.i

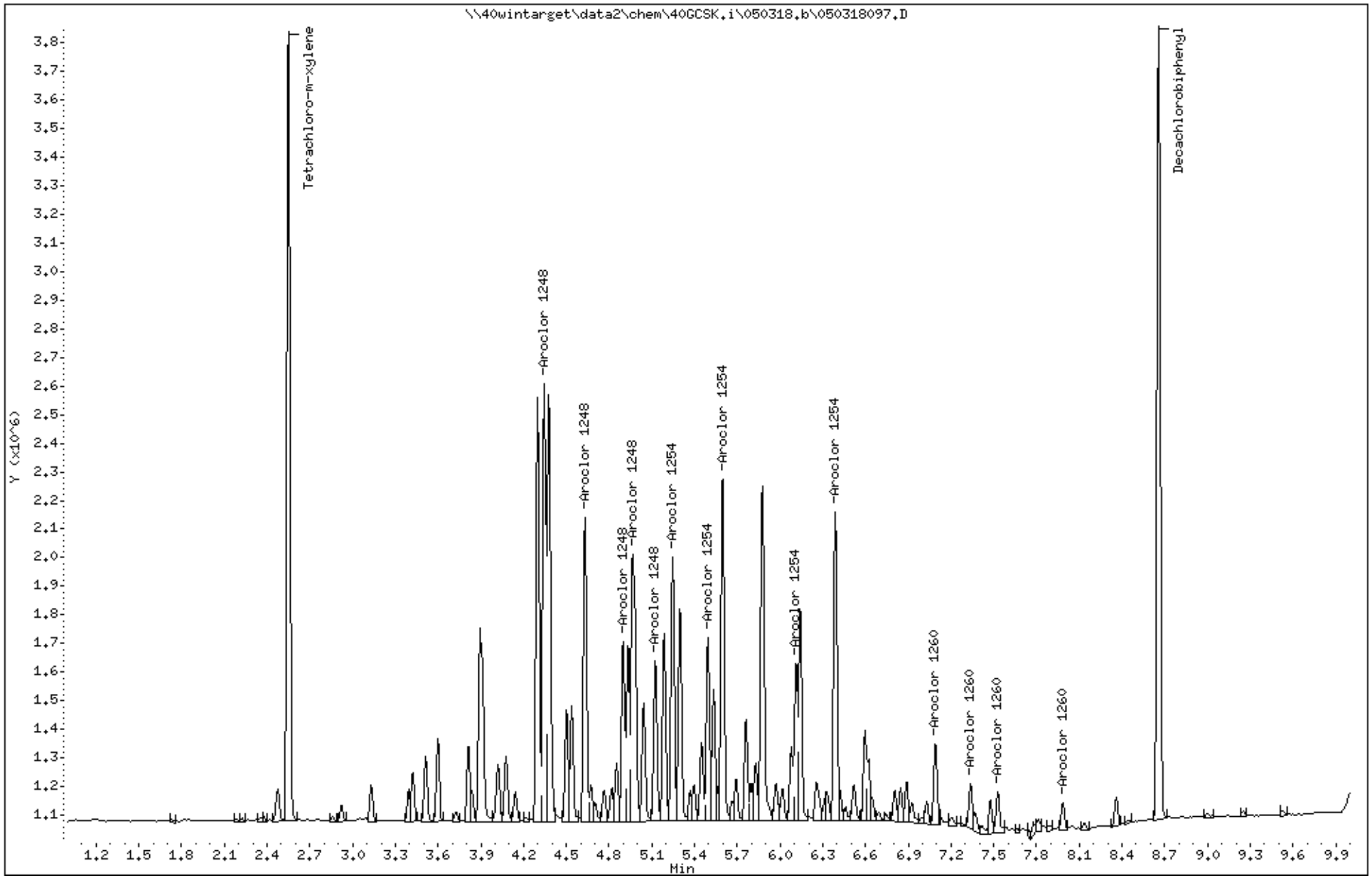
Sample Info: 40158028003 x4,

Volume Injected (uL): 1.0

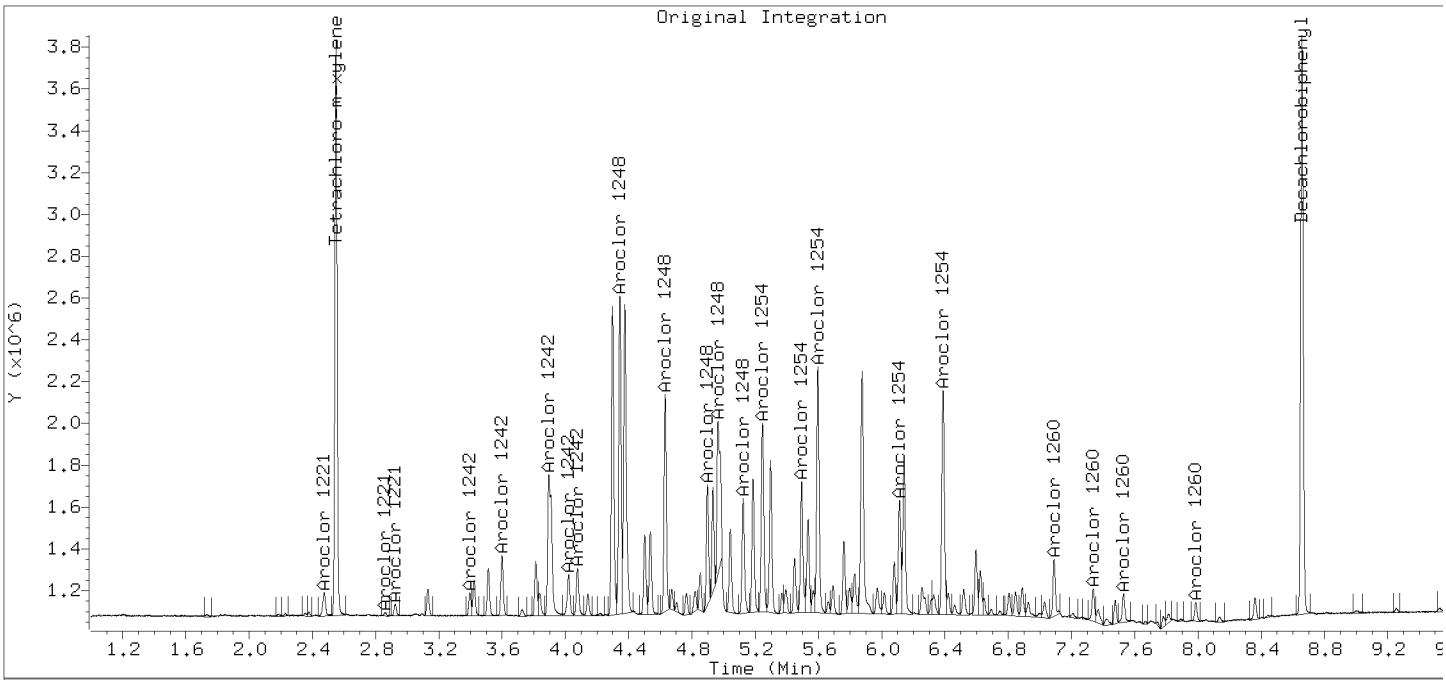
Operator: BLM

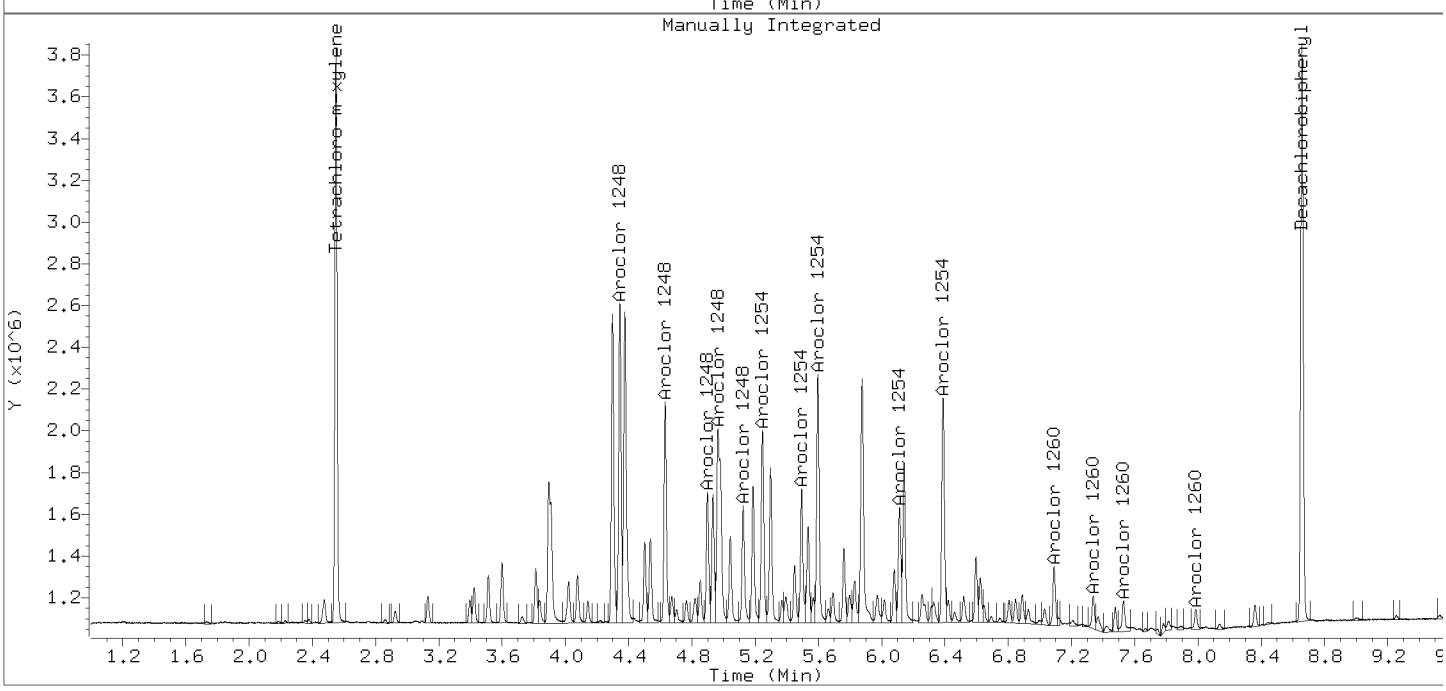
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318097.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 22:45 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	114146	0	
Aroclor 1016	114146	0	
Aroclor 1016	114146	0	
Aroclor 1016	114146	0	
Aroclor 1016	114146	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	59783	0	
Aroclor 1232	59783	0	
Aroclor 1232	59783	0	
Aroclor 1232	59783	0	

Aroclor 1232	59783	0	
Aroclor 1242	114146	0	
Aroclor 1242	114146	0	
Aroclor 1242	114146	0	
Aroclor 1242	114146	0	
Aroclor 1242	114146	0	
Aroclor 1248	1641040	1665492	BA
Aroclor 1248	1641040	1665492	BA
Aroclor 1248	1641040	1665492	BA
Aroclor 1248	1641040	1665492	BA
Aroclor 1248	1641040	1665492	BA
Aroclor 1254	1038045	1093635	BA
Aroclor 1254	1038045	1093635	BA
Aroclor 1254	1038045	1093635	BA
Aroclor 1254	1038045	1093635	BA
Aroclor 1254	1038045	1093635	BA
Aroclor 1260	1276302	0	CO
Aroclor 1260	1276302	0	CO
Aroclor 1260	1276302	0	CO
Aroclor 1260	1276302	0	CO
Aroclor 1260	1276302	0	CO
Tetrachloro-m-xylene	2744357	2744357	
Decachlorobiphenyl	3134819	3134819	

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SAMPLE NO.

SW5-170830-01-PKSD-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028004
Date Analyzed: 05/03/2018 23:33
Lab File ID: 050318.B\050318103.D
Initial wt/vol: 9.9746 g 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)	<114	U
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)	1710	
11097-69-1	PCB-1254 (Aroclor 1254)	624	
11096-82-5	PCB-1260 (Aroclor 1260)	160	J
1336-36-3	PCB, Total	2500	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318103.D
Lab Smp Id: 40158028004 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 23:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028004 x10,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 3
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	9.975	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	18955	19947	1.052	0.06		
2.059	14356	11896	0.829	0.04		
2.190	11002	8637	0.785	0.03		
2.475	107162	90100	0.841	0.34		
2.549	1102794	1123468	1.019	3.53	$ 2 Tetrachloro-m-xylene	
2.863	13925	13228	0.950	0.04		
2.924	54224	52485	0.968	0.17		
3.049	20324	13139	0.646	0.06		
3.089	20752	14513	0.699	0.06		
3.131	101467	98211	0.968	0.32		
3.396	124068	122795	0.990	0.39		
3.423	223805	211320	0.944	0.71		
3.513	208442	197130	0.946	0.66		
3.599	365641	344758	0.943	1.17		
3.727	39539	31206	0.789	0.12		
3.812	348174	336418	0.966	1.11		
3.837	144322	130047	0.901	0.46		
3.895	1394010	816461	0.586	4.46		
4.020	243897	194616	0.798	0.78		
4.077	261043	222247	0.851	0.83		
4.143	109267	96393	0.882	0.35		
4.298	1687748	1548811	0.918	5.41		
4.344	1790772	1687304	0.942	5.74	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.376	1925520	1554939	0.808	6.64	
4.502	343290	315622	0.919	1.10	
4.537	429331	367188	0.855	1.37	
4.631	1115468	1019886	0.914	3.57	6 Aroclor 1248
4.673	139797	121394	0.868	0.44	
4.703	76376	56102	0.735	0.24	
4.764	114995	101902	0.886	0.36	
4.819	141230	106657	0.755	0.45	
4.854	185718	167055	0.900	0.59	
4.899	590664	552974	0.936	1.89	6 Aroclor 1248
4.933	575802	555518	0.965	1.84	
4.964	1485958	793009	0.534	4.76	6 Aroclor 1248
5.043	394536	342336	0.868	1.26	
5.123	506328	444845	0.879	1.62	6 Aroclor 1248
5.186	596313	511314	0.857	1.91	
5.246	876781	761916	0.869	2.81	7 Aroclor 1254
5.297	702892	598067	0.851	2.25	
5.369	93746	89965	0.960	0.30	
5.392	129029	100780	0.781	0.41	
5.449	241593	218266	0.903	0.77	
5.493	542814	492476	0.907	1.74	7 Aroclor 1254
5.534	412345	349345	0.847	1.32	
5.567	82777	83346	1.007	0.26	
5.597	1091866	971751	0.890	3.50	7 Aroclor 1254
5.663	69942	58024	0.830	0.22	
5.692	132367	109214	0.825	0.42	
5.761	312680	283996	0.908	1.00	
5.799	122998	95013	0.772	0.39	
5.827	209072	159228	0.762	0.67	
5.877	1180874	897782	0.760	3.78	
5.973	123411	92492	0.749	0.39	
6.017	126796	85997	0.678	0.40	
6.080	219805	199858	0.909	0.70	
6.113	441879	388995	0.880	1.41	7 Aroclor 1254
6.142	675943	582138	0.861	2.16	
6.198	30922	19305	0.624	0.09	
6.257	150227	90582	0.603	0.48	
6.314	49278	57699	1.171	0.15	
6.329	96299	73230	0.760	0.30	
6.388	1022992	843673	0.825	3.27	7 Aroclor 1254
6.422	82795	76457	0.923	0.26	
6.462	49579	37104	0.748	0.15	
6.519	140271	103710	0.739	0.44	
6.597	290014	257934	0.889	0.92	
6.624	188043	172200	0.916	0.60	
6.649	52966	64644	1.220	0.16	
6.692	36335	27534	0.758	0.11	
6.751	35547	26828	0.755	0.11	
6.806	85380	67464	0.790	0.27	
6.848	96733	83240	0.861	0.31	
6.889	122389	105001	0.858	0.39	
6.928	86623	62158	0.718	0.27	
7.030	61236	49084	0.802	0.19	
7.091	248316	213409	0.859	0.79	8 Aroclor 1260
7.120	24586	27005	1.098	0.07	
7.200	84992	47547	0.559	0.27	
7.267	20135	16120	0.801	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.338	142573	124571	0.874	0.45	8 Aroclor 1260
7.370	72801	53325	0.732	0.23	
7.429	49380	28030	0.568	0.15	
7.477	97162	93729	0.965	0.31	
7.529	168105	122363	0.728	0.53	8 Aroclor 1260
7.588	58294	25169	0.432	0.18	
7.634	18130	18146	1.001	0.05	
7.744	25256	24707	0.978	0.08	
7.780	50206	41012	0.817	0.16	
7.836	171779	82903	0.483	0.55	
7.889	41216	24719	0.600	0.13	
7.986	101801	85477	0.840	0.32	8 Aroclor 1260
8.049	34472	21743	0.631	0.11	
8.137	13685	13645	0.997	0.04	
8.194	15198	13054	0.859	0.04	
8.361	91149	83740	0.919	0.29	
8.437	175476	112507	0.641	0.56	
8.658	1316141	1204968	0.916	4.21	$ 12 Decachlorobiphenyl
9.000	285199	157738	0.553	0.91	
9.256	25978	20184	0.777	0.08	
9.523	368583	176394	0.479	1.18	
	31194868	26064572		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318103.D
Lab Smp Id: 40158028004 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 23:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028004 x10,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 3
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	9.975	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	1102794	0.00916	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			
4.344	4.343	0.001	1790772	0.75074	3800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1115468	0.26262	1300	0.00- 20.00	62.29	BA
4.898	4.898	0.000	590664	0.28996	1400	0.00- 20.00	32.98	BA
4.963	4.963	0.000	1485957	0.27129	1400	0.00- 20.00	82.98	BA
5.123	5.123	0.000	506327	0.13383	670	0.00- 20.00	28.27	BA
Average of Peak Concentrations =					1700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	876780	0.15547	780	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	542813	0.11639	580	0.00- 20.00	61.91	BA
5.596	5.596	0.000	1091865	0.12752	640	0.00- 20.00	124.53	BA
6.112	6.113	-0.001	441879	0.08317	420	0.00- 20.00	50.40	BA
6.387	6.387	0.000	1022992	0.13973	700	0.00- 20.00	116.68	BA
Average of Peak Concentrations =					620			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.090	7.090	0.000	248315	0.02110	100	0.00- 20.00	26.64	CO
7.338	7.338	0.000	142572	0.02521	130	0.00- 20.00	13.94	CO
7.528	7.529	-0.001	168105	0.04917	250	0.00- 20.00	16.43	CO
7.985	7.987	-0.002	101800	0.03214	160	0.00- 20.00	9.95	CO
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	1316140	0.00988	50			

QC Flag Legend

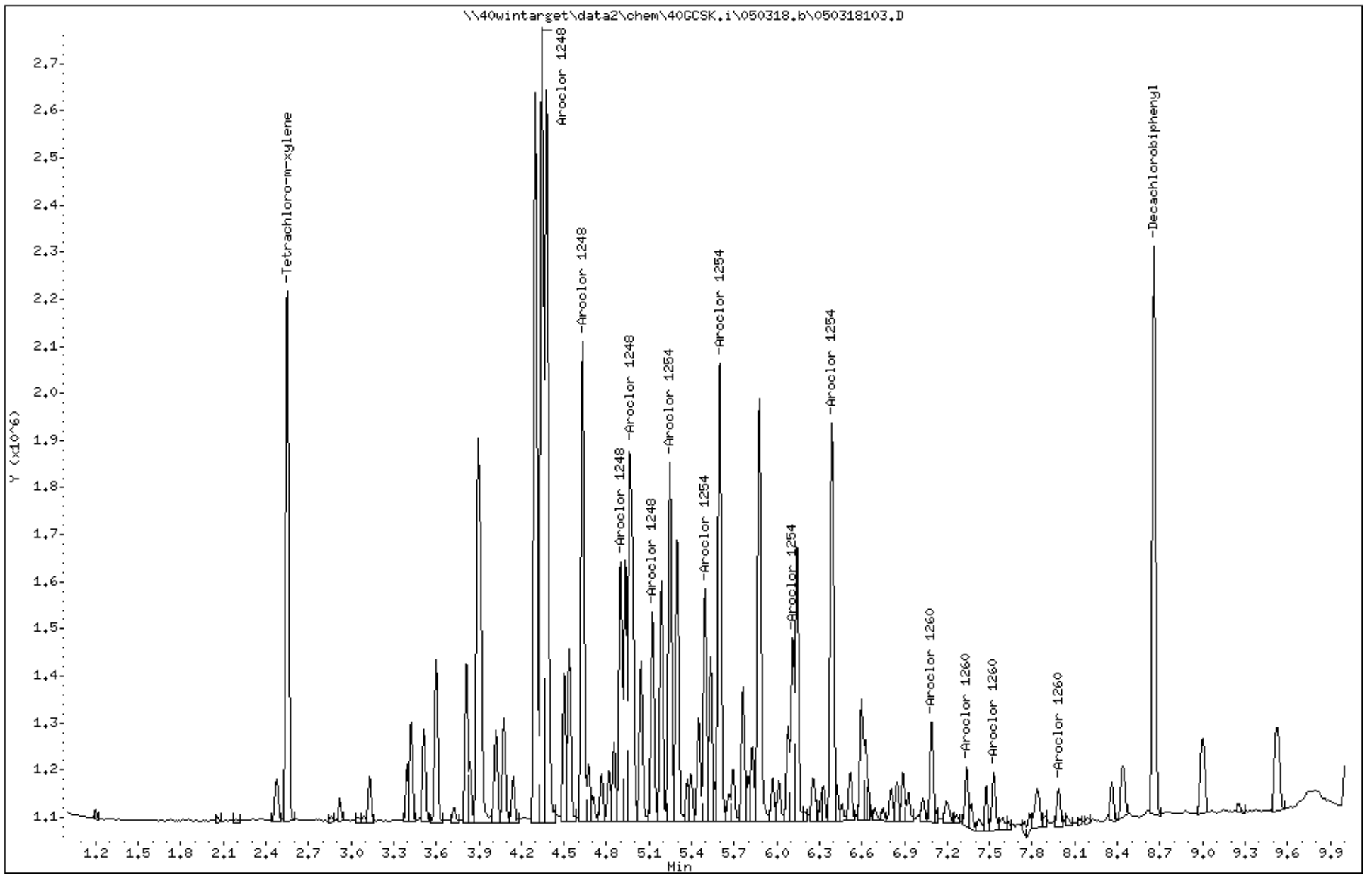
M - Compound response manually integrated.

Review Codes Legend

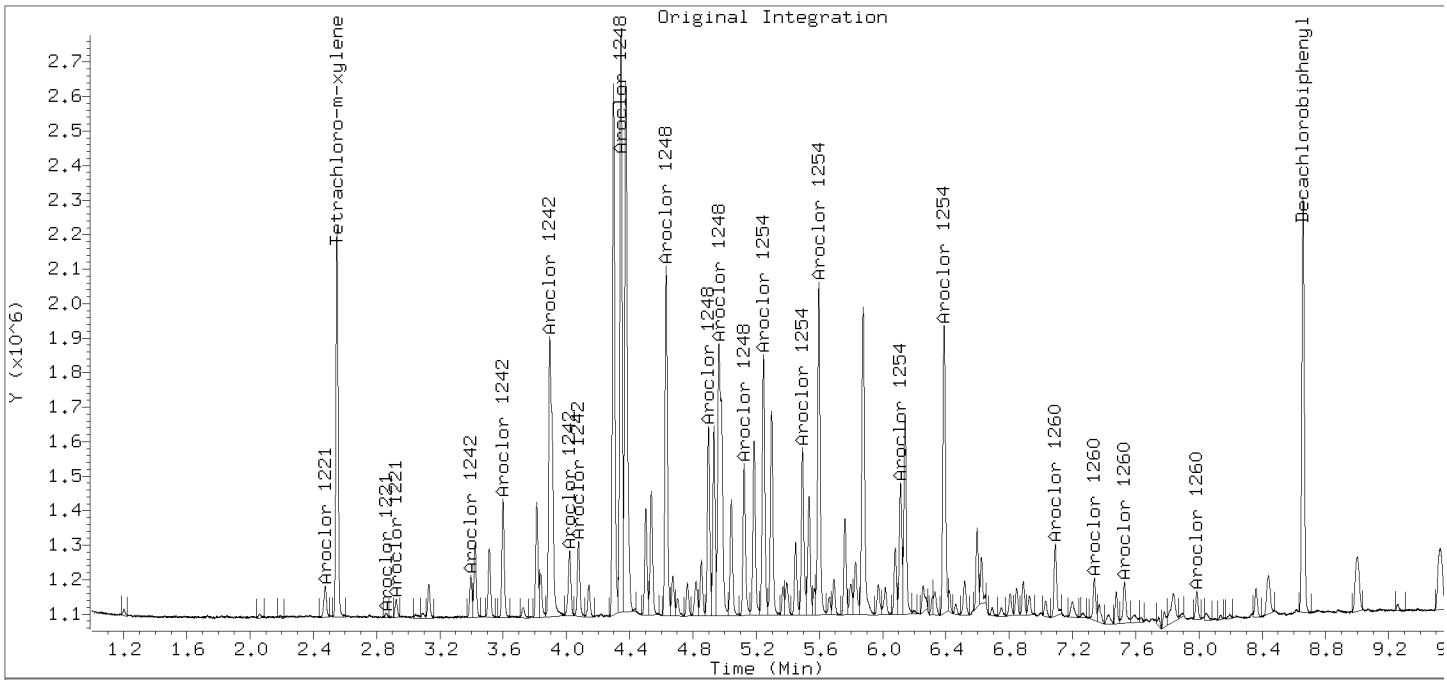
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

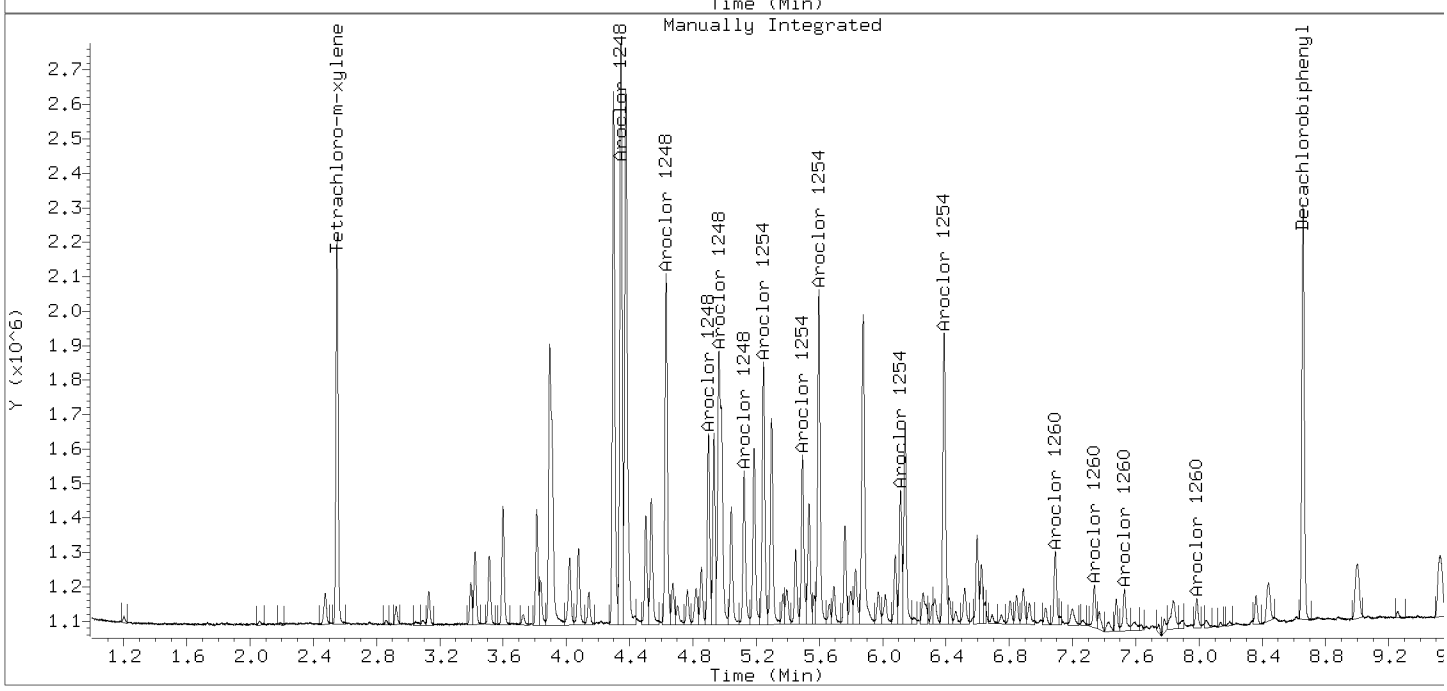
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318103.D
Date : 03-MAY-2018 23:33
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028004 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318103.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 23:33 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	124068	0	
Aroclor 1016	124068	0	
Aroclor 1016	124068	0	
Aroclor 1016	124068	0	
Aroclor 1016	124068	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	54224	0	
Aroclor 1232	54224	0	
Aroclor 1232	54224	0	
Aroclor 1232	54224	0	

Aroclor 1232	54224	0	
Aroclor 1242	124068	0	
Aroclor 1242	124068	0	
Aroclor 1242	124068	0	
Aroclor 1242	124068	0	
Aroclor 1242	124068	0	
Aroclor 1248	1752875	1790772	BA
Aroclor 1248	1752875	1790772	BA
Aroclor 1248	1752875	1790772	BA
Aroclor 1248	1752875	1790772	BA
Aroclor 1248	1752875	1790772	BA
Aroclor 1254	857348	876780	BA
Aroclor 1254	857348	876780	BA
Aroclor 1254	857348	876780	BA
Aroclor 1254	857348	876780	BA
Aroclor 1254	857348	876780	BA
Aroclor 1260	991363	0	CO
Aroclor 1260	991363	0	CO
Aroclor 1260	991363	0	CO
Aroclor 1260	991363	0	CO
Aroclor 1260	991363	0	CO
Tetrachloro-m-xylene	1102794	1102794	
Decachlorobiphenyl	1316140	1316140	

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SAMPLE NO.

SW5-170830-01-PKSD-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028005
Date Analyzed: 05/03/2018 23:49
Lab File ID: 050318.B\050318105.D
Initial wt/vol: 9.9937 g 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)	<114	U
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)	1470	
11097-69-1	PCB-1254 (Aroclor 1254)	580	
11096-82-5	PCB-1260 (Aroclor 1260)	131	J
1336-36-3	PCB, Total	2180	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318105.D
Lab Smp Id: 40158028005 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 23:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028005 x10,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 5
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	9.994	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.475	94050	74680	0.794	0.34		
2.549	1129142	1152483	1.021	4.18	$ 2 Tetrachloro-m-xylene	
2.859	16804	12928	0.769	0.06		
2.924	56463	49367	0.874	0.20		
3.047	10263	8826	0.860	0.03		
3.131	83476	82240	0.985	0.30		
3.395	109820	109612	0.998	0.40		
3.423	182077	169544	0.931	0.67		
3.513	192265	181108	0.942	0.71		
3.599	280763	263069	0.937	1.03		
3.724	27319	24768	0.907	0.10		
3.812	239087	230204	0.963	0.88		
3.838	113661	97457	0.857	0.42		
3.895	1028172	597392	0.581	3.80		
4.021	230846	191130	0.828	0.85		
4.075	221737	194686	0.878	0.82		
4.141	95175	84367	0.886	0.35		
4.298	1425770	1318853	0.925	5.28		
4.344	1503779	1415703	0.941	5.56	6 Aroclor 1248	BA
4.376	1565793	1286594	0.822	6.36		
4.501	280990	257933	0.918	1.04		
4.538	353172	292462	0.828	1.30		
4.631	956812	865809	0.905	3.54	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.673	118278	101962	0.862	0.43	
4.704	55349	44757	0.809	0.20	
4.765	107724	89966	0.835	0.39	
4.820	126724	92337	0.729	0.46	
4.852	174657	153562	0.879	0.64	
4.898	496085	471821	0.951	1.83	6 Aroclor 1248
4.933	479841	447058	0.932	1.77	
4.965	1344424	691162	0.514	4.97	6 Aroclor 1248
5.042	376544	324729	0.862	1.39	
5.124	464354	382094	0.823	1.71	6 Aroclor 1248
5.187	564337	500675	0.887	2.08	
5.246	809722	690880	0.853	2.99	7 Aroclor 1254
5.298	636403	539239	0.847	2.35	
5.370	90843	83533	0.920	0.33	
5.394	115553	89254	0.772	0.42	
5.450	220561	193863	0.879	0.81	
5.494	504130	450715	0.894	1.86	7 Aroclor 1254
5.534	374970	325047	0.867	1.38	
5.566	97708	92513	0.947	0.36	
5.596	1009103	893102	0.885	3.73	7 Aroclor 1254
5.662	59851	53791	0.899	0.22	
5.691	131894	100654	0.763	0.48	
5.762	293525	265622	0.905	1.08	
5.797	121079	98778	0.816	0.44	
5.829	192433	144387	0.750	0.71	
5.876	1068576	850708	0.796	3.95	
5.905	68334	48899	0.716	0.25	
5.971	139341	95635	0.686	0.51	
6.016	102462	78984	0.771	0.37	
6.080	204439	184955	0.905	0.75	
6.113	450780	391011	0.867	1.66	7 Aroclor 1254
6.142	639441	543762	0.850	2.36	
6.255	127239	93779	0.737	0.47	
6.314	47968	54479	1.136	0.17	
6.331	93180	68402	0.734	0.34	
6.388	916692	790129	0.862	3.39	7 Aroclor 1254
6.421	85161	74330	0.873	0.31	
6.463	50406	35187	0.698	0.18	
6.520	116876	91155	0.780	0.43	
6.597	248061	227600	0.918	0.91	
6.624	169627	156385	0.922	0.62	
6.647	63043	59835	0.949	0.23	
6.692	26820	24341	0.908	0.09	
6.748	24969	19369	0.776	0.09	
6.805	93939	80801	0.860	0.34	
6.846	99156	83348	0.841	0.36	
6.890	115534	99661	0.863	0.42	
6.927	71789	48749	0.679	0.26	
7.030	62967	49140	0.780	0.23	
7.091	220583	198760	0.901	0.81	8 Aroclor 1260
7.122	27154	28174	1.038	0.10	
7.202	30000	21923	0.731	0.11	
7.265	16048	10120	0.631	0.05	
7.338	117897	109464	0.928	0.43	8 Aroclor 1260
7.369	67258	46342	0.689	0.24	
7.427	40287	22295	0.553	0.14	
7.478	88686	85548	0.965	0.32	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.530	135828	101443	0.747	0.50	8 Aroclor 1260
7.667	11009	9526	0.865	0.04	
7.746	23834	23525	0.987	0.08	
7.782	42208	36114	0.856	0.15	
7.812	38797	29513	0.761	0.14	
7.840	33623	21616	0.643	0.12	
7.986	81574	63731	0.781	0.30	8 Aroclor 1260
8.136	26554	18728	0.705	0.09	
8.360	76886	65165	0.848	0.28	
8.444	23476	18646	0.794	0.08	
8.658	1383611	1218598	0.881	5.12	$ 12 Decachlorobiphenyl
9.001	80461	48533	0.603	0.29	
9.254	26331	16207	0.616	0.09	
9.376	10797	7237	0.670	0.03	
9.526	148785	86426	0.581	0.55	
	27002014	22820994		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318105.D
Lab Smp Id: 40158028005 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 03-MAY-2018 23:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028005 x10,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 5
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	9.994	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	1129141	0.00938	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	1503778	0.63042	3200	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	956811	0.22527	1100	0.00- 20.00	63.63	BA
4.898	4.898	0.000	496084	0.24353	1200	0.00- 20.00	32.99	BA
4.965	4.963	0.002	1344424	0.24545	1200	0.00- 20.00	89.40	BA
5.124	5.123	0.001	464354	0.12274	610	0.00- 20.00	30.88	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	809721	0.14358	720	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	504130	0.10810	540	0.00- 20.00	62.26	BA
5.596	5.596	0.000	1009103	0.11786	590	0.00- 20.00	124.62	BA
6.113	6.113	0.000	450779	0.08485	420	0.00- 20.00	55.67	BA
6.388	6.387	0.001	916691	0.12521	630	0.00- 20.00	113.21	BA
Average of Peak Concentrations =					580			
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
7.091	7.090	0.001	220582	0.01874	94	0.00- 20.00	26.98	CO
7.337	7.338	-0.001	117897	0.02084	100	0.00- 20.00	12.86	CO
7.529	7.529	0.000	135827	0.03973	200	0.00- 20.00	14.82	CO
7.986	7.987	-0.001	81574	0.02576	130	0.00- 20.00	8.90	CO
Average of Peak Concentrations =					130			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	1383610	0.01039	52			

QC Flag Legend

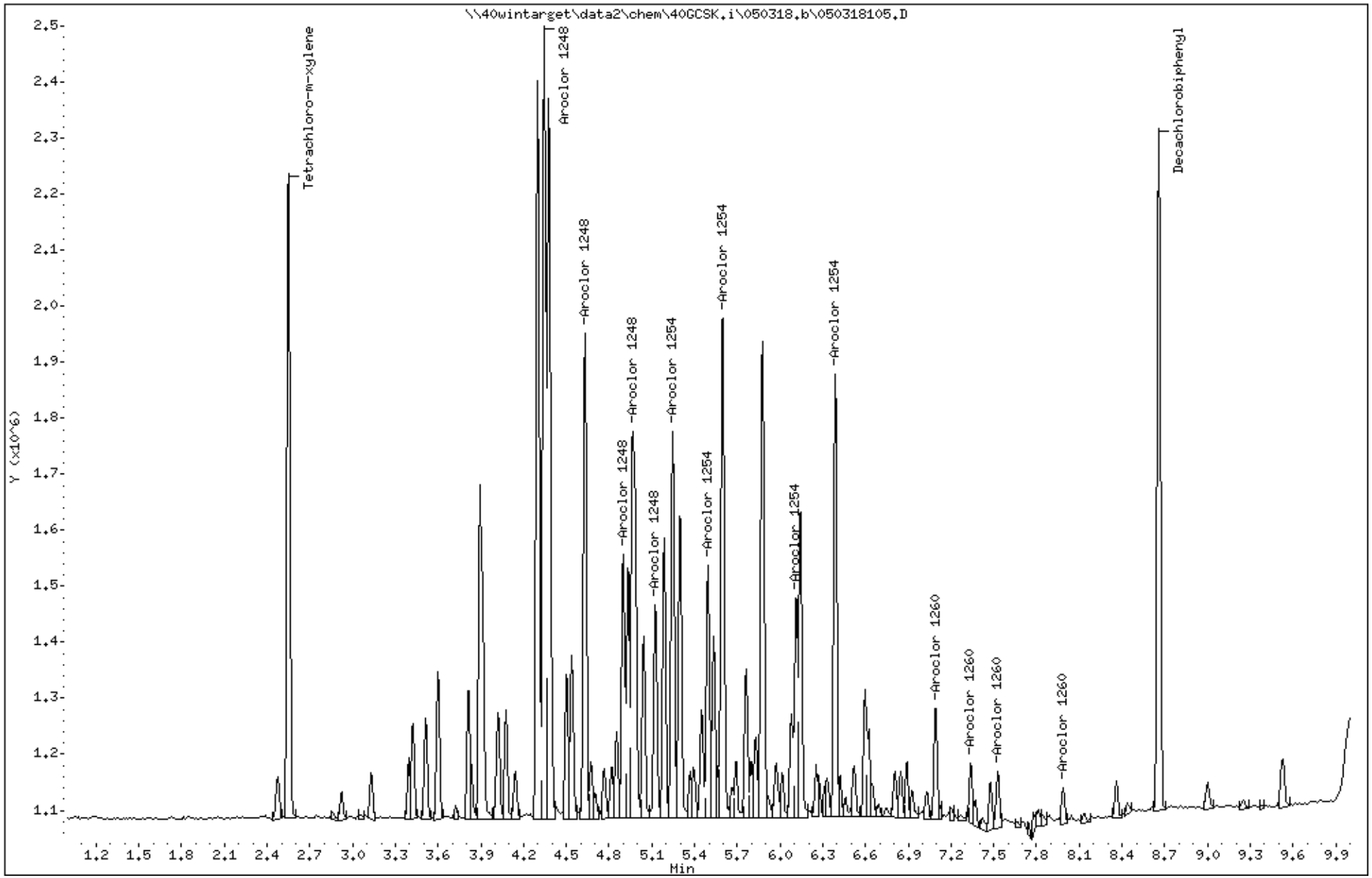
M - Compound response manually integrated.

Review Codes Legend

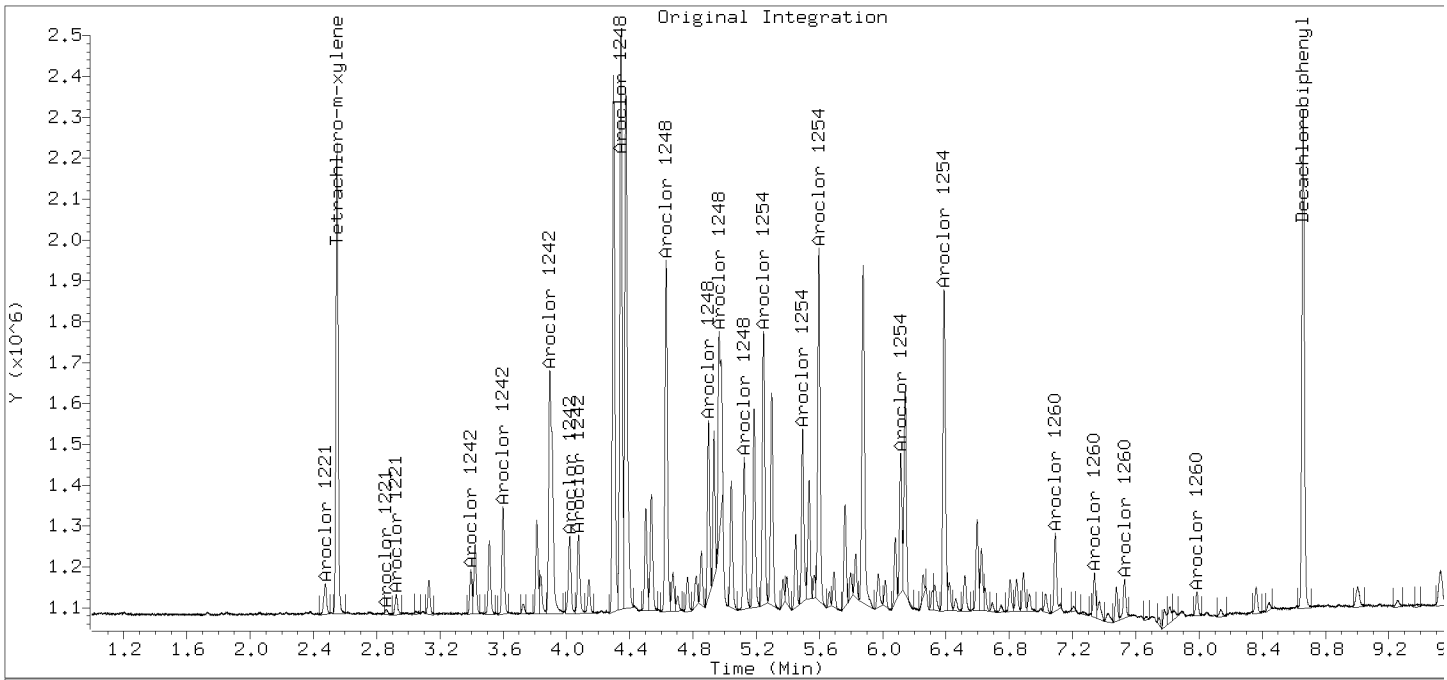
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

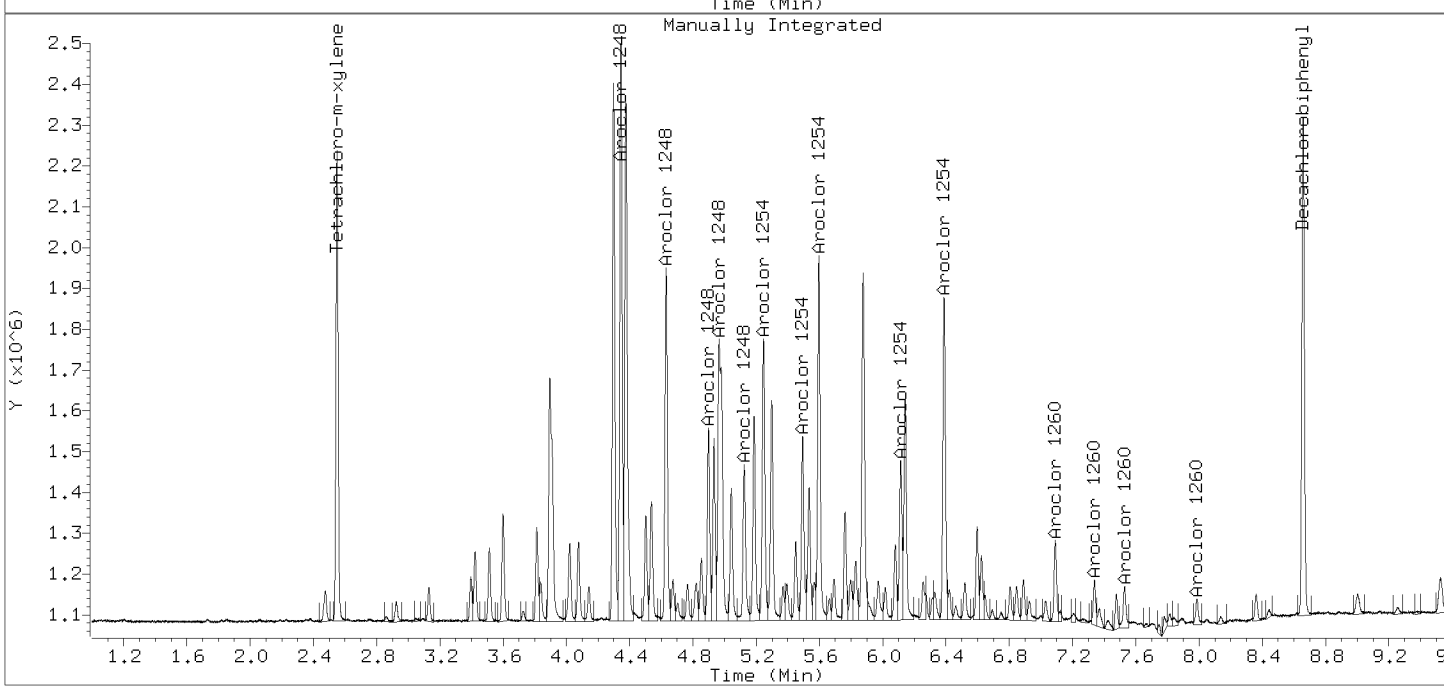
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318105.D
Date : 03-MAY-2018 23:49
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028005 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318105.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 23:49 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	109820	0	
Aroclor 1016	109820	0	
Aroclor 1016	109820	0	
Aroclor 1016	109820	0	
Aroclor 1016	109820	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	56462	0	
Aroclor 1232	56462	0	
Aroclor 1232	56462	0	
Aroclor 1232	56462	0	

Aroclor 1232	56462	0	
Aroclor 1242	109820	0	
Aroclor 1242	109820	0	
Aroclor 1242	109820	0	
Aroclor 1242	109820	0	
Aroclor 1242	109820	0	
Aroclor 1248	1475661	1503778	BA
Aroclor 1248	1475661	1503778	BA
Aroclor 1248	1475661	1503778	BA
Aroclor 1248	1475661	1503778	BA
Aroclor 1248	1475661	1503778	BA
Aroclor 1254	741194	809721	BA
Aroclor 1254	741194	809721	BA
Aroclor 1254	741194	809721	BA
Aroclor 1254	741194	809721	BA
Aroclor 1254	741194	809721	BA
Aroclor 1260	902005	0	CO
Aroclor 1260	902005	0	CO
Aroclor 1260	902005	0	CO
Aroclor 1260	902005	0	CO
Aroclor 1260	902005	0	CO
Tetrachloro-m-xylene	1129141	1129141	
Decachlorobiphenyl	1383610	1383610	

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SAMPLE NO.

SW5-170830-01-PKSD-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028006
Date Analyzed: 05/04/2018 00:06
Lab File ID: 050318.B\050318107.D
Initial wt/vol: 10.0107 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)	367	
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)	1170	
11097-69-1	PCB-1254 (Aroclor 1254)	477	
11096-82-5	PCB-1260 (Aroclor 1260)	125	J
1336-36-3	PCB, Total	2140	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318107.D
Lab Smp Id: 40158028006 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028006 x6,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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	10.011	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.728	11779	11307	0.960	0.03			
2.230	9787	10345	1.057	0.02			
2.378	10758	12544	1.166	0.02			
2.474	221386	178314	0.805	0.57		1 Aroclor 1221	BA
2.549	1913721	1930622	1.009	4.97	$	2 Tetrachloro-m-xylene	BA
2.753	15282	14144	0.926	0.03		1 Aroclor 1221	BA
2.861	28902	25873	0.895	0.07		1 Aroclor 1221	BA
2.923	109676	99437	0.907	0.28		1 Aroclor 1221	BA
3.046	30435	15682	0.515	0.07			
3.093	12921	13887	1.075	0.03			
3.130	196846	189171	0.961	0.51			
3.395	174269	173192	0.994	0.45			
3.423	284990	252312	0.885	0.74			
3.512	392450	371026	0.945	1.01			
3.599	460129	431062	0.937	1.19			
3.726	53313	41771	0.784	0.13			
3.813	353909	348007	0.983	0.91			
3.837	158459	141671	0.894	0.41			
3.895	1551727	875290	0.564	4.03			
4.021	355346	292980	0.824	0.92			
4.076	311733	269739	0.865	0.81			
4.142	140131	127988	0.913	0.36			
4.219	18448	15720	0.852	0.04			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1848880	1682406	0.910	4.80	
4.344	1880692	1790441	0.952	4.88	6 Aroclor 1248
4.375	2014680	1622368	0.805	5.23	
4.502	514075	495289	0.963	1.33	
4.537	537953	468140	0.870	1.39	
4.631	1292121	1174863	0.909	3.35	6 Aroclor 1248
4.673	161783	139383	0.862	0.42	
4.704	110129	90478	0.822	0.28	
4.764	140255	118143	0.842	0.36	
4.820	172533	130804	0.758	0.44	
4.851	278627	243115	0.873	0.72	
4.898	685220	647598	0.945	1.78	6 Aroclor 1248
4.933	674256	632635	0.938	1.75	
4.964	1890479	962833	0.509	4.91	6 Aroclor 1248
5.042	475621	411312	0.865	1.23	
5.124	700972	617475	0.881	1.82	6 Aroclor 1248
5.185	794712	700594	0.882	2.06	
5.246	1093115	936034	0.856	2.84	7 Aroclor 1254
5.297	853592	744287	0.872	2.21	
5.371	116821	111837	0.957	0.30	
5.395	199730	155069	0.776	0.51	
5.449	295559	258390	0.874	0.76	
5.493	717276	647004	0.902	1.86	7 Aroclor 1254
5.534	546318	466437	0.854	1.41	
5.566	137640	123419	0.897	0.35	
5.596	1357623	1209652	0.891	3.52	7 Aroclor 1254
5.663	82876	73340	0.885	0.21	
5.690	179629	154520	0.860	0.46	
5.762	399196	373433	0.935	1.03	
5.797	197114	154634	0.784	0.51	
5.828	256666	200322	0.780	0.66	
5.876	1405726	1127330	0.802	3.65	
5.920	137024	90567	0.661	0.35	
5.971	189784	128805	0.679	0.49	
6.017	136926	109127	0.797	0.35	
6.079	283414	257877	0.910	0.73	
6.113	614078	555401	0.904	1.59	7 Aroclor 1254
6.141	882579	747011	0.846	2.29	
6.256	206664	129676	0.627	0.53	
6.316	59837	76348	1.276	0.15	
6.329	133545	100075	0.749	0.34	
6.388	1275249	1064350	0.835	3.31	7 Aroclor 1254
6.420	117443	102163	0.870	0.30	
6.461	56457	48700	0.863	0.14	
6.518	155598	125874	0.809	0.40	
6.596	347943	313259	0.900	0.90	
6.624	236776	206631	0.873	0.61	
6.645	77933	81002	1.039	0.20	
6.691	41926	34093	0.813	0.10	
6.746	27784	21567	0.776	0.07	
6.806	118734	100494	0.846	0.30	
6.846	137530	116783	0.849	0.35	
6.891	155989	130018	0.834	0.40	
6.927	91979	66046	0.718	0.23	
6.996	24318	18578	0.764	0.06	
7.031	91756	73931	0.806	0.23	
7.091	315397	275093	0.872	0.81	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	45983	35493	0.772	0.11	
7.205	36158	25170	0.696	0.09	
7.339	196330	161265	0.821	0.51	8 Aroclor 1260
7.368	99909	66922	0.670	0.25	
7.477	129719	121190	0.934	0.33	
7.530	210466	142264	0.676	0.54	8 Aroclor 1260
7.633	22079	20359	0.922	0.05	
7.664	23624	18125	0.767	0.06	
7.690	19318	32868	1.701	0.05	
7.707	53821	45288	0.841	0.13	
7.747	43934	45941	1.046	0.11	
7.783	64050	51831	0.809	0.16	
7.813	59965	42895	0.715	0.15	
7.841	28177	23532	0.835	0.07	
7.987	139232	104356	0.750	0.36	8 Aroclor 1260
8.137	39582	28907	0.730	0.10	
8.361	112394	103582	0.922	0.29	
8.439	15666	11485	0.733	0.04	
8.657	2250483	1973047	0.877	6.38	$ 12 Decachlorobiphenyl
9.005	27723	16865	0.608	0.07	
9.257	23325	20435	0.876	0.06	
9.529	24366	16543	0.679	0.06	
9.747	53274	16416	0.308	0.13	
9.761	16877	16291	0.965	0.04	
	38481386	32620208		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318107.D
Lab Smp Id: 40158028006 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028006 x6,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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	10.011	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.853	1.853	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.474	2.471	0.003	221386	0.41994	1200	0.00- 20.00	0.00	BA
2.753	2.758	-0.005	15282	0.01102	33	0.00- 20.00	0.00	BA
2.860	2.860	0.000	28902	0.02619	78	0.00- 20.00	0.00	BA
2.923	2.923	0.000	109675	0.03281	98	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					370			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	1913720	0.01589	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	1880691	0.78843	2400	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1292120	0.30421	910	0.00- 20.00	68.70	BA
4.897	4.898	-0.001	685220	0.33638	1000	0.00- 20.00	36.43	BA
4.963	4.963	0.000	1890478	0.34514	1000	0.00- 20.00	100.52	BA
5.123	5.123	0.000	700971	0.18528	560	0.00- 20.00	37.27	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1093114	0.19383	580	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	717276	0.15380	460	0.00- 20.00	65.62	BA
5.595	5.596	-0.001	1357622	0.15856	480	0.00- 20.00	124.20	BA
6.112	6.113	-0.001	614078	0.11558	350	0.00- 20.00	56.18	BA
6.387	6.387	0.000	1275249	0.17419	520	0.00- 20.00	116.66	BA
Average of Peak Concentrations =					480			
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	315397	0.02680	80	0.00- 20.00	24.73	BA
7.339	7.338	0.001	196329	0.03471	100	0.00- 20.00	15.40	BA
7.529	7.529	0.000	210465	0.06156	180	0.00- 20.00	16.50	BA
7.986	7.987	-0.001	139232	0.04396	130	0.00- 20.00	10.92	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2250482	0.01690	51			

QC Flag Legend

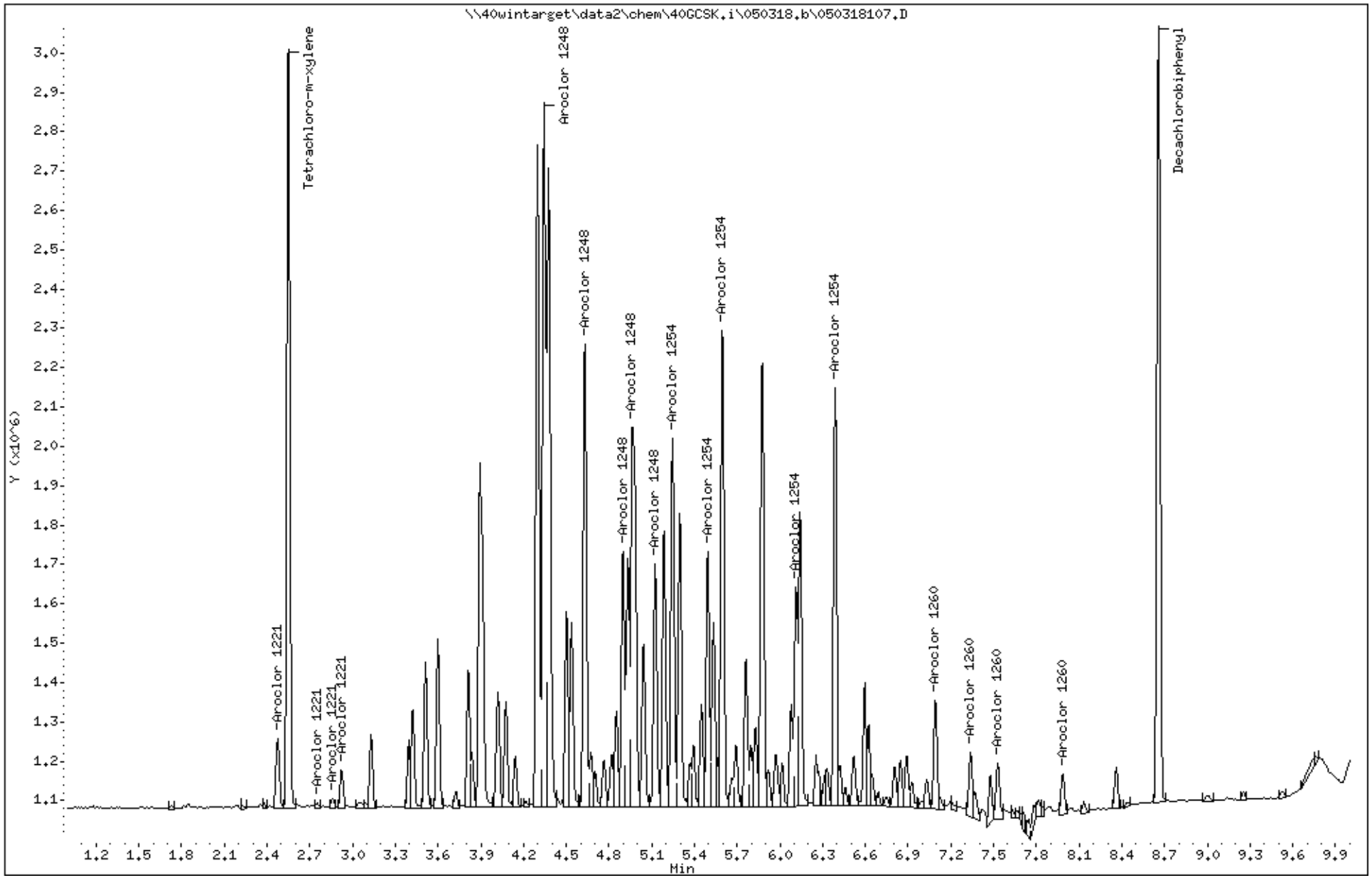
M - Compound response manually integrated.

Review Codes Legend

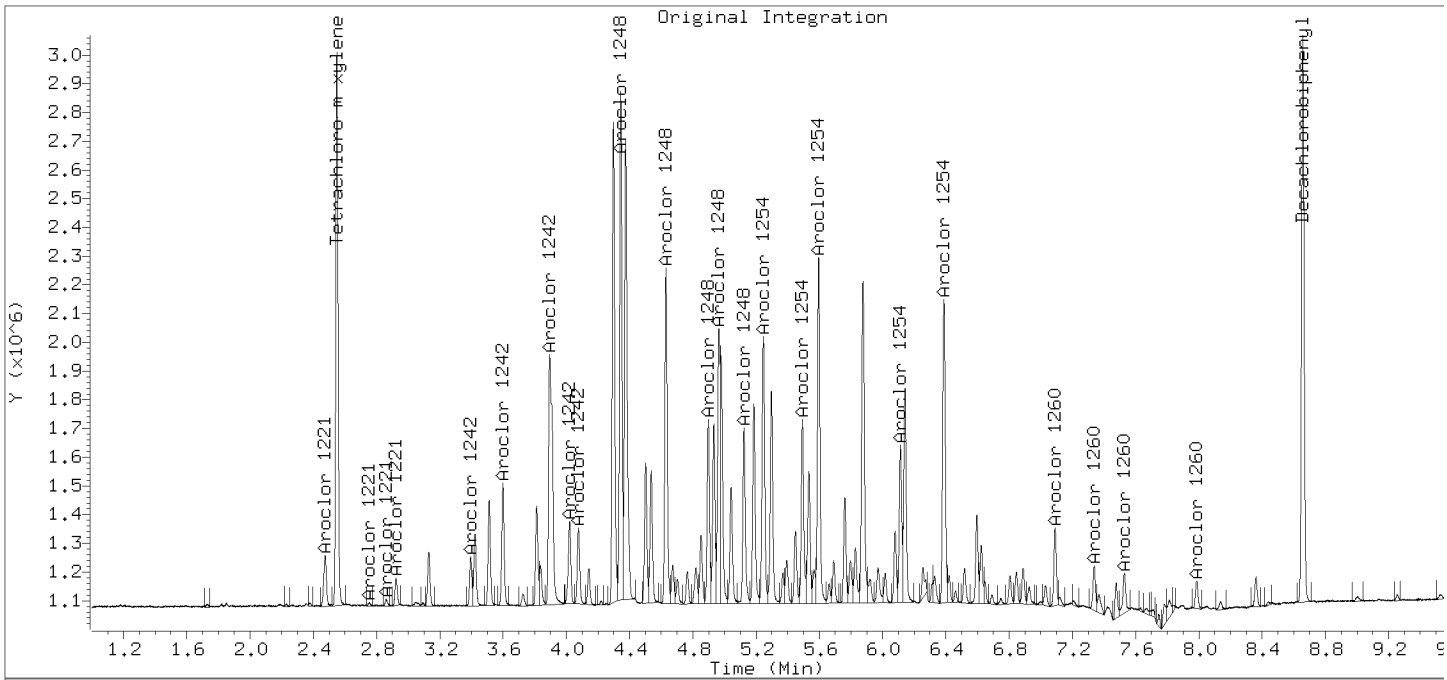
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

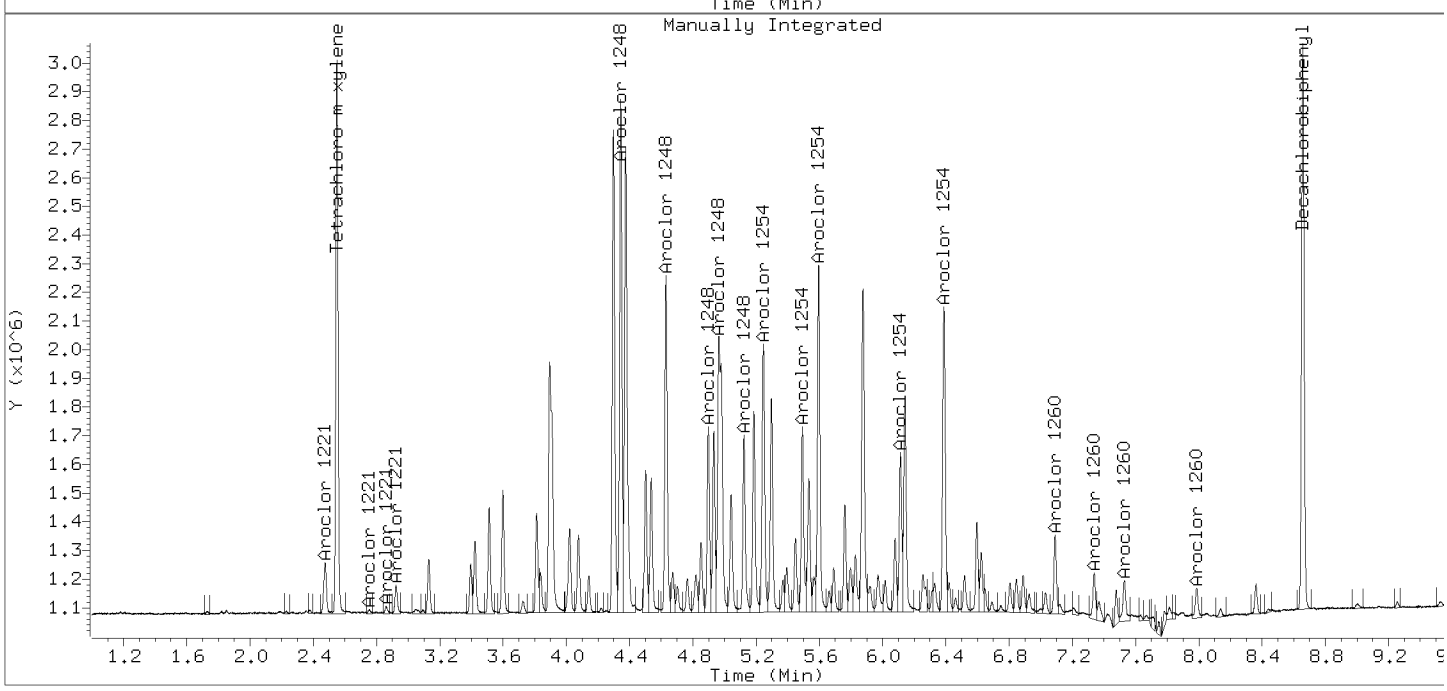
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318107.D
Date : 04-MAY-2018 00:06
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028006 x6,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318107.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 00:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	167253	0	
Aroclor 1016	167253	0	
Aroclor 1016	167253	0	
Aroclor 1016	167253	0	
Aroclor 1016	167253	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	99305	0	
Aroclor 1232	99305	0	
Aroclor 1232	99305	0	
Aroclor 1232	99305	0	

Aroclor 1232	99305	0	
Aroclor 1242	167253	0	
Aroclor 1242	167253	0	
Aroclor 1242	167253	0	
Aroclor 1242	167253	0	
Aroclor 1242	167253	0	
Aroclor 1248	1836970	1880691	BA
Aroclor 1248	1836970	1880691	BA
Aroclor 1248	1836970	1880691	BA
Aroclor 1248	1836970	1880691	BA
Aroclor 1248	1836970	1880691	BA
Aroclor 1254	1073781	1093114	BA
Aroclor 1254	1073781	1093114	BA
Aroclor 1254	1073781	1093114	BA
Aroclor 1254	1073781	1093114	BA
Aroclor 1254	1073781	1093114	BA
Aroclor 1260	1256079	0	BA
Aroclor 1260	1256079	0	BA
Aroclor 1260	1256079	0	BA
Aroclor 1260	1256079	0	BA
Aroclor 1260	1256079	0	BA
Tetrachloro-m-xylene	1897152	1913720	BA
Decachlorobiphenyl	2250482	2250482	

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SAMPLE NO.

SW5-170830-01-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028007
Date Analyzed: 05/04/2018 00:22
Lab File ID: 050318.B\050318109.D
Initial wt/vol: 9.9739 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)	932	
11097-69-1	PCB-1254 (Aroclor 1254)	385	
11096-82-5	PCB-1260 (Aroclor 1260)	98.6	J
1336-36-3	PCB, Total	1410	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318109.D
Lab Smp Id: 40158028007 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:22
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028007 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 9
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	9.974	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.184	11821	8866	0.750	0.03		
2.231	12487	14390	1.152	0.03		
2.351	13676	14534	1.063	0.03		
2.376	17681	15187	0.859	0.04		
2.474	173011	137436	0.794	0.46		
2.549	2361225	2383680	1.010	6.38	$ 2 Tetrachloro-m-xylene	
2.610	10934	8992	0.822	0.02		
2.859	17332	19776	1.141	0.04		
2.925	81883	73752	0.901	0.22		
3.046	14431	10034	0.695	0.03		
3.131	156667	150525	0.961	0.42		
3.395	149376	148419	0.994	0.40		
3.422	223314	210239	0.941	0.60		
3.513	302197	280555	0.928	0.81		
3.599	374760	348401	0.930	1.01		
3.725	50412	38589	0.765	0.13		
3.813	330849	314817	0.952	0.89		
3.837	142465	128960	0.905	0.38		
3.895	1376537	808527	0.587	3.72		
4.021	336425	271646	0.807	0.90		
4.077	282403	243984	0.864	0.76		
4.142	122995	111796	0.909	0.33		
4.218	15842	14057	0.887	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1753781	1596858	0.911	4.74	
4.345	1831239	1715159	0.937	4.95	6 Aroclor 1248
4.376	2021304	1615403	0.799	5.46	
4.501	388835	363292	0.934	1.05	
4.537	468887	410922	0.876	1.26	
4.631	1222735	1096197	0.897	3.30	6 Aroclor 1248
4.673	166684	146123	0.877	0.45	
4.705	81719	61309	0.750	0.22	
4.764	140096	118283	0.844	0.37	
4.819	170768	129853	0.760	0.46	
4.852	242091	213583	0.882	0.65	
4.899	649829	625933	0.963	1.75	6 Aroclor 1248
4.933	654586	608093	0.929	1.77	
4.966	1726143	916175	0.531	4.66	6 Aroclor 1248
5.042	440415	378788	0.860	1.19	
5.124	639380	543314	0.850	1.72	6 Aroclor 1248
5.187	722289	640537	0.887	1.95	
5.247	1056004	928485	0.879	2.85	7 Aroclor 1254
5.297	848695	730782	0.861	2.29	
5.370	123211	111095	0.902	0.33	
5.394	158996	121206	0.762	0.42	
5.449	284707	250952	0.881	0.76	
5.494	679176	613962	0.904	1.83	7 Aroclor 1254
5.534	529995	454545	0.858	1.43	
5.568	102435	96706	0.944	0.27	
5.597	1297934	1141978	0.880	3.50	7 Aroclor 1254
5.662	84562	68414	0.809	0.22	
5.692	157215	134643	0.856	0.42	
5.762	372519	345458	0.927	1.00	
5.798	143531	114625	0.799	0.38	
5.828	260285	191508	0.736	0.70	
5.876	1446681	1085329	0.750	3.91	
5.973	152990	112425	0.735	0.41	
6.017	149743	107148	0.716	0.40	
6.078	276465	249045	0.901	0.74	
6.113	558627	498245	0.892	1.51	7 Aroclor 1254
6.142	882521	747388	0.847	2.38	
6.256	200438	128956	0.643	0.54	
6.317	67031	73925	1.103	0.18	
6.328	117228	93526	0.798	0.31	
6.389	1299754	1094305	0.842	3.51	7 Aroclor 1254
6.421	111187	99060	0.891	0.30	
6.460	63616	46493	0.731	0.17	
6.519	151657	115307	0.760	0.41	
6.597	330283	303901	0.920	0.89	
6.624	248022	220887	0.891	0.67	
6.647	85808	83927	0.978	0.23	
6.690	43658	36127	0.828	0.11	
6.747	29909	21569	0.721	0.08	
6.804	91246	73817	0.809	0.24	
6.845	118612	102034	0.860	0.32	
6.889	156938	136395	0.869	0.42	
6.928	96261	67652	0.703	0.26	
7.000	27215	19037	0.699	0.07	
7.031	89716	73790	0.822	0.24	
7.090	318317	272912	0.857	0.86	8 Aroclor 1260
7.123	32648	35840	1.098	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.206	37070	18657	0.503	0.10	
7.338	187386	160705	0.858	0.50	8 Aroclor 1260
7.369	94278	65333	0.693	0.25	
7.422	46319	25463	0.550	0.12	
7.477	114113	112096	0.982	0.30	
7.530	192742	148751	0.772	0.52	8 Aroclor 1260
7.667	9345	10958	1.173	0.02	
7.747	12905	17207	1.333	0.03	
7.779	50049	46248	0.924	0.13	
7.816	50826	37387	0.736	0.13	
7.986	129290	107236	0.829	0.34	8 Aroclor 1260
8.047	19473	12970	0.666	0.05	
8.137	25459	21500	0.844	0.06	
8.362	125886	113482	0.901	0.34	
8.658	2681179	2329571	0.869	7.70	$ 12 Decachlorobiphenyl
9.256	32139	27016	0.841	0.08	
9.530	26226	16898	0.644	0.07	
	36980027	31411861		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318109.D
Lab Smp Id: 40158028007 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:22
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028007 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 9
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	9.974	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	2361225	0.01960	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	1831238	0.76770	1900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1222734	0.28788	720	0.00- 20.00	66.77	BA
4.899	4.898	0.001	649829	0.31901	800	0.00- 20.00	35.49	BA
4.965	4.963	0.002	1726142	0.31514	790	0.00- 20.00	94.26	BA
5.123	5.123	0.000	639379	0.16900	420	0.00- 20.00	34.92	BA
Average of Peak Concentrations =					930			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1056004	0.18725	470	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	679175	0.14563	360	0.00- 20.00	64.32	BA
5.596	5.596	0.000	1297933	0.15159	380	0.00- 20.00	122.91	BA
6.112	6.113	-0.001	558627	0.10515	260	0.00- 20.00	52.90	BA
6.388	6.387	0.001	1299753	0.17754	440	0.00- 20.00	123.08	BA
Average of Peak Concentrations =					380			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.090	7.090	0.000	318316	0.02705	68	0.00- 20.00	26.96	CO
7.338	7.338	0.000	187386	0.03313	83	0.00- 20.00	14.42	CO
7.530	7.529	0.001	192742	0.05638	140	0.00- 20.00	14.83	CO
7.986	7.987	-0.001	129290	0.04082	100	0.00- 20.00	9.95	CO
Average of Peak Concentrations =					99			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2681179	0.02013	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\050318.b\050318109.D

Date : 04-MAY-2018 00:22

Client ID: SW5-170830-01-PKSD-

Instrument: 40GCSK.i

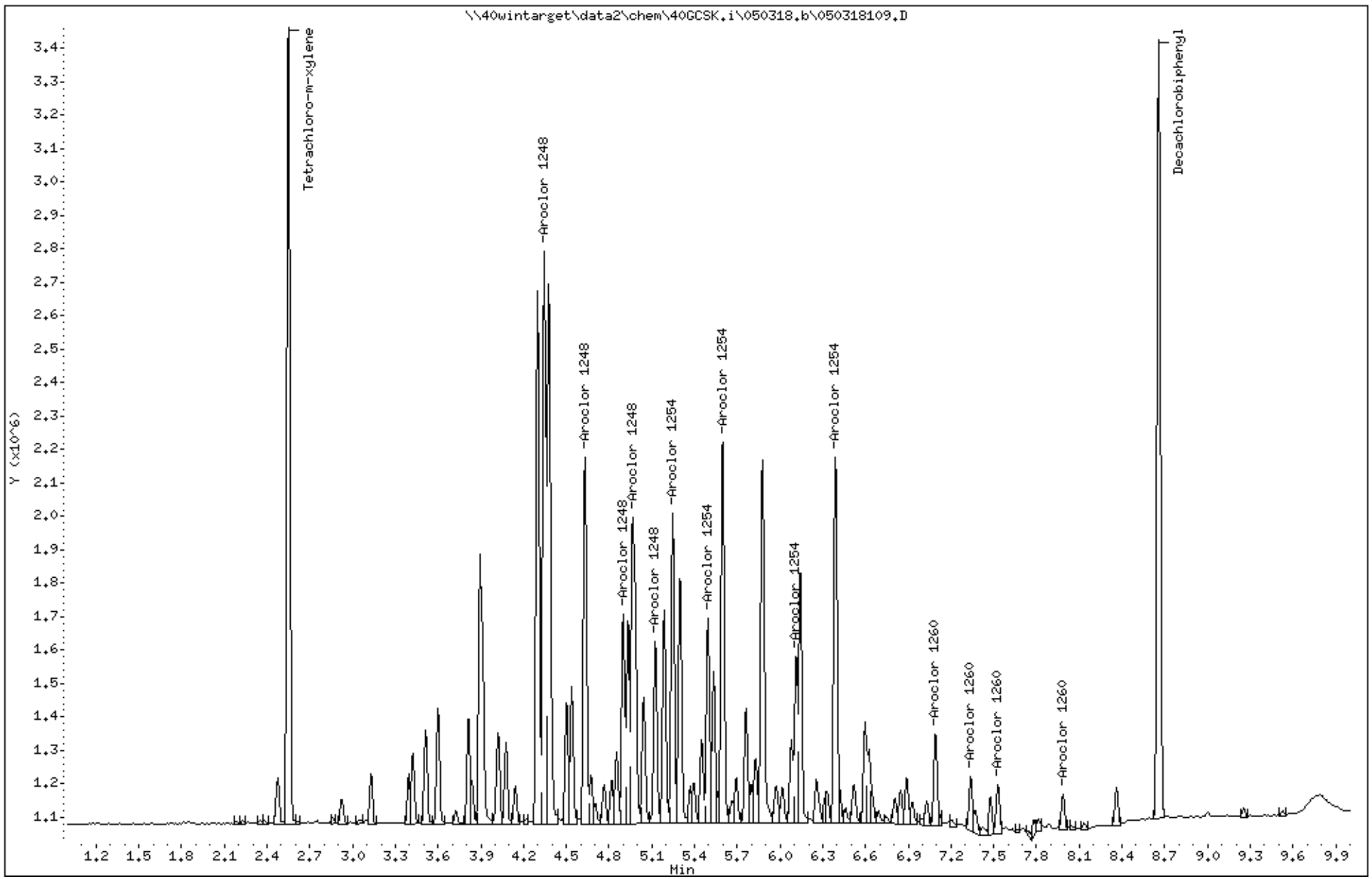
Sample Info: 40158028007 x5,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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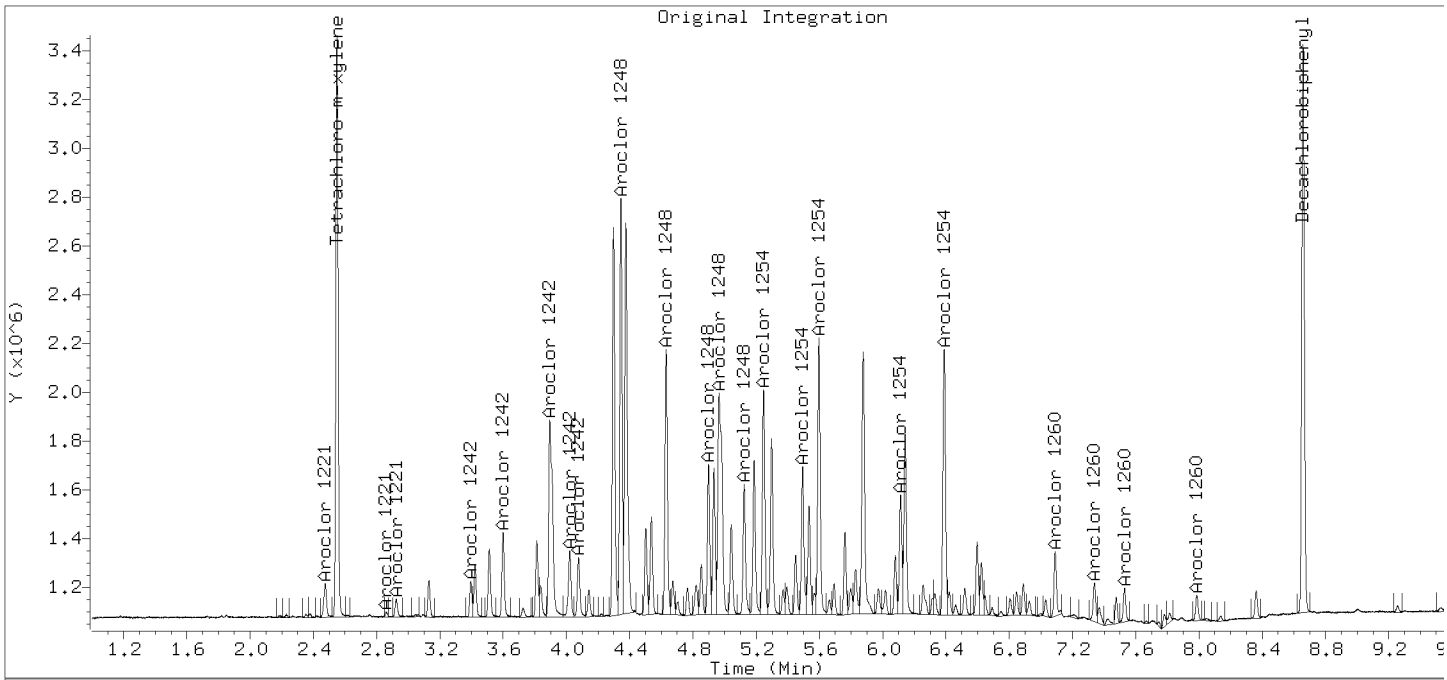
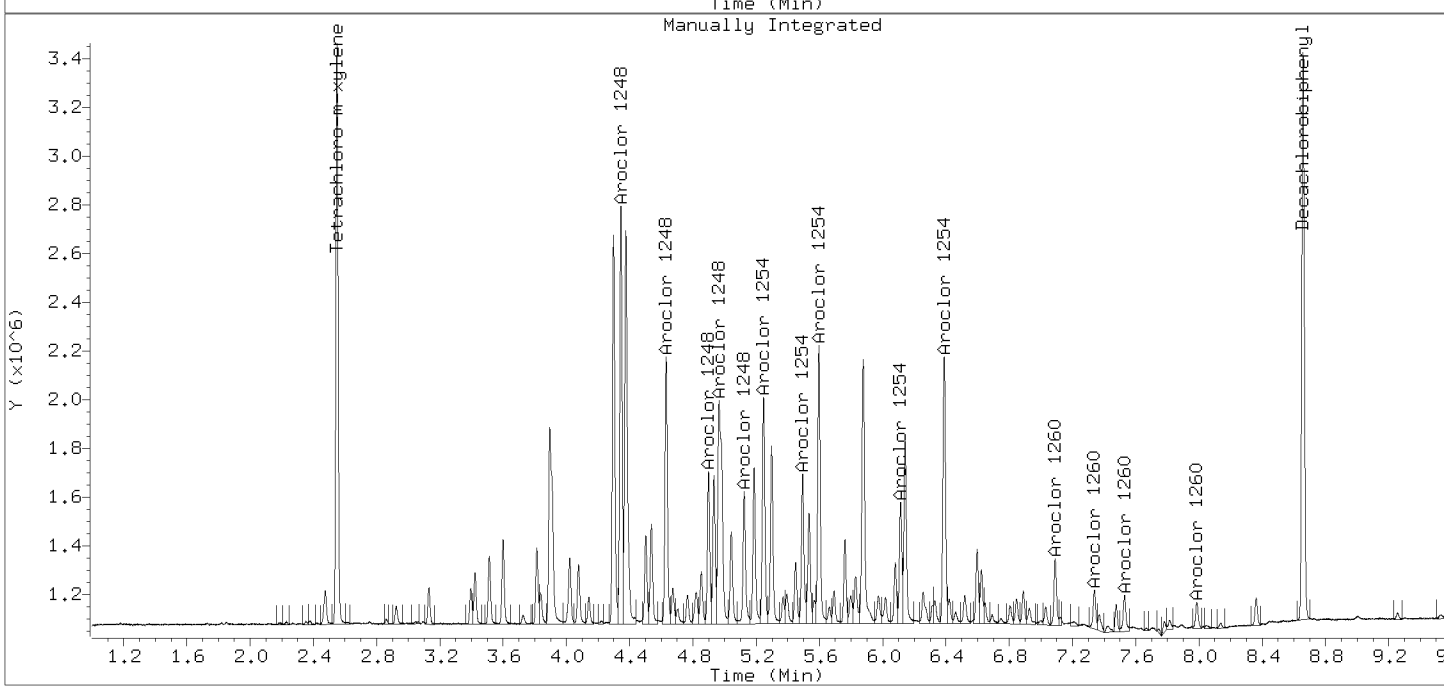
Injection Date: 04-MAY-2018 00:22 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	149376	0	
Aroclor 1016	149376	0	
Aroclor 1016	149376	0	
Aroclor 1016	149376	0	
Aroclor 1016	149376	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	81882	0	
Aroclor 1232	81882	0	
Aroclor 1232	81882	0	
Aroclor 1232	81882	0	

Aroclor 1232	81882	0	
Aroclor 1242	149376	0	
Aroclor 1242	149376	0	
Aroclor 1242	149376	0	
Aroclor 1242	149376	0	
Aroclor 1242	149376	0	
Aroclor 1248	1805324	1831238	BA
Aroclor 1248	1805324	1831238	BA
Aroclor 1248	1805324	1831238	BA
Aroclor 1248	1805324	1831238	BA
Aroclor 1248	1805324	1831238	BA
Aroclor 1254	1027750	1056004	BA
Aroclor 1254	1027750	1056004	BA
Aroclor 1254	1027750	1056004	BA
Aroclor 1254	1027750	1056004	BA
Aroclor 1254	1027750	1056004	BA
Aroclor 1260	1280725	0	CO
Aroclor 1260	1280725	0	CO
Aroclor 1260	1280725	0	CO
Aroclor 1260	1280725	0	CO
Aroclor 1260	1280725	0	CO
Tetrachloro-m-xylene	2361225	2361225	
Decachlorobiphenyl	2681179	2681179	

==========

SAMPLE NO.

SW5-170830-01-PKSD-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028008
Date Analyzed: 05/04/2018 00:38
Lab File ID: 050318.B\050318111.D
Initial wt/vol: 10.0076 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	250	
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	1080	
11097-69-1	PCB-1254 (Aroclor 1254)	432	
11096-82-5	PCB-1260 (Aroclor 1260)	114	J
1336-36-3	PCB, Total	1870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318111.D
Lab Smp Id: 40158028008 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028008 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 11
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	10.008	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.820	28587	26180	0.916	0.07			
2.476	172892	143643	0.831	0.42		1 Aroclor 1221	BA
2.549	2057186	2072146	1.007	5.07	$	2 Tetrachloro-m-xylene	BA
2.756	18830	13224	0.702	0.04		1 Aroclor 1221	BA
2.862	32689	24553	0.751	0.08		1 Aroclor 1221	BA
2.923	96602	80914	0.838	0.23		1 Aroclor 1221	BA
3.094	16118	13559	0.841	0.03			
3.130	166857	162219	0.972	0.41			
3.395	160844	155397	0.966	0.39			
3.423	261832	238756	0.912	0.64			
3.513	307150	281801	0.917	0.75			
3.599	430261	397178	0.923	1.06			
3.726	50358	40328	0.801	0.12			
3.812	387706	376737	0.972	0.95			
3.836	183248	159157	0.869	0.45			
3.895	1526395	940935	0.616	3.76			
4.020	306934	241661	0.787	0.75			
4.077	312801	268435	0.858	0.77			
4.142	140970	119802	0.850	0.34			
4.217	16370	14349	0.877	0.04			
4.298	1965922	1785589	0.908	4.84			
4.345	2076874	1942367	0.935	5.12		6 Aroclor 1248	BA
4.376	2268915	1836613	0.809	5.59			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.502	469267	437593	0.933	1.15	
4.537	564182	480599	0.852	1.39	
4.630	1393017	1255657	0.901	3.43	6 Aroclor 1248
4.673	172732	150841	0.873	0.42	
4.702	92147	68029	0.738	0.22	
4.766	149366	132492	0.887	0.36	
4.822	190044	139652	0.735	0.46	
4.853	257414	234761	0.912	0.63	
4.898	802600	765749	0.954	1.97	6 Aroclor 1248
4.933	826755	767123	0.928	2.03	
4.965	1976860	1125977	0.570	4.87	6 Aroclor 1248
5.043	472454	398693	0.844	1.16	
5.124	774722	680495	0.878	1.91	6 Aroclor 1248
5.187	753112	655673	0.871	1.85	
5.247	1201873	1055050	0.878	2.96	7 Aroclor 1254
5.298	961161	829065	0.863	2.36	
5.370	129433	120292	0.929	0.31	
5.394	171061	131735	0.770	0.42	
5.449	331306	293743	0.887	0.81	
5.493	780517	713565	0.914	1.92	7 Aroclor 1254
5.534	636342	547408	0.860	1.56	
5.567	116238	106132	0.913	0.28	
5.596	1443078	1293565	0.896	3.55	7 Aroclor 1254
5.665	87868	71296	0.811	0.21	
5.692	178041	152137	0.855	0.43	
5.762	396110	361480	0.913	0.97	
5.798	165793	127269	0.768	0.40	
5.829	276729	211883	0.766	0.68	
5.876	1642122	1241970	0.756	4.04	
5.971	180026	123648	0.687	0.44	
6.016	140371	110958	0.790	0.34	
6.079	300324	268567	0.894	0.74	
6.113	648452	593848	0.916	1.59	7 Aroclor 1254
6.141	988787	850947	0.861	2.43	
6.255	221072	146095	0.661	0.54	
6.314	69934	84545	1.209	0.17	
6.328	137857	105382	0.764	0.33	
6.388	1422621	1160246	0.816	3.50	7 Aroclor 1254
6.419	132313	120347	0.910	0.32	
6.462	69948	52075	0.744	0.17	
6.518	157798	124130	0.787	0.38	
6.597	371111	334512	0.901	0.91	
6.624	287021	255901	0.892	0.70	
6.647	89645	90353	1.008	0.22	
6.694	50253	40123	0.798	0.12	
6.747	28742	22552	0.785	0.07	
6.805	102574	88969	0.867	0.25	
6.847	129126	114467	0.886	0.31	
6.889	177141	158640	0.896	0.43	
6.926	94554	70608	0.747	0.23	
6.999	21738	18595	0.855	0.05	
7.030	96994	81569	0.841	0.23	
7.090	369291	337811	0.915	0.91	8 Aroclor 1260
7.124	46774	35763	0.765	0.11	
7.200	30507	19273	0.632	0.07	
7.338	214973	184239	0.857	0.53	8 Aroclor 1260
7.368	103479	73206	0.707	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.422	56538	28622	0.506	0.13	
7.476	159451	139940	0.878	0.39	
7.529	236374	166604	0.705	0.58	8 Aroclor 1260
7.635	22848	20219	0.885	0.05	
7.667	22616	14546	0.643	0.05	
7.714	25881	14751	0.570	0.06	
7.748	19794	22068	1.115	0.04	
7.780	58390	52988	0.907	0.14	
7.812	59677	41619	0.697	0.14	
7.884	27858	17801	0.639	0.06	
7.987	141498	123720	0.874	0.34	8 Aroclor 1260
8.138	30667	26477	0.863	0.07	
8.362	139050	129033	0.928	0.34	
8.658	2365880	2065746	0.873	6.35	$ 12 Decachlorobiphenyl
9.001	36207	20503	0.566	0.08	
9.256	36019	31419	0.872	0.08	
9.527	39280	24373	0.621	0.09	
	40560139	34493265		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318111.D
Lab Smp Id: 40158028008 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028008 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 11
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	10.008	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
2.475	2.471	0.004	172892	0.32795	820	0.00- 20.00	0.00	BA
2.755	2.758	-0.003	18830	0.01358	34	0.00- 20.00	0.00	BA
2.861	2.860	0.001	32688	0.02962	74	0.00- 20.00	0.00	BA
2.923	2.923	0.000	96602	0.02890	72	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					250			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2057186	0.01708	43		(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         2076873 0.87068     2200   0.00-  20.00   100.00(M)      BA
4.630    4.630    0.000         1393017 0.32797      820   0.00-  20.00    67.07         BA
4.897    4.898   -0.001          802599 0.39400      980   0.00-  20.00    38.64         BA
4.964    4.963    0.001         1976860 0.36091      900   0.00-  20.00    95.18         BA
5.123    5.123    0.000          774721 0.20478      510   0.00-  20.00    37.30         BA
               Average of Peak Concentrations =     1100
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002         1201872 0.21311      530   0.00-  20.00   100.00(M)      BA
5.493    5.492    0.001          780517 0.16736      420   0.00-  20.00    64.94         BA
5.596    5.596    0.000         1443077 0.16854      420   0.00-  20.00   120.07         BA
6.112    6.113   -0.001          648451 0.12205      300   0.00-  20.00    53.95         BA
6.387    6.387    0.000         1422621 0.19432      480   0.00-  20.00   118.37         BA
               Average of Peak Concentrations =      430
-------------------------------------------------------------------------------
    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          369291 0.03138       78   0.00-  20.00    25.96         BA
7.337    7.338   -0.001          214972 0.03801       95   0.00-  20.00    15.11         BA
7.528    7.529   -0.001          236374 0.06914      170   0.00-  20.00    16.62         BA
7.987    7.987    0.000          141498 0.04468      110   0.00-  20.00     9.95         BA
               Average of Peak Concentrations =      110
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.658    8.657    0.001         2365880 0.01776       44
-------------------------------------------------------------------------------
```

QC Flag Legend

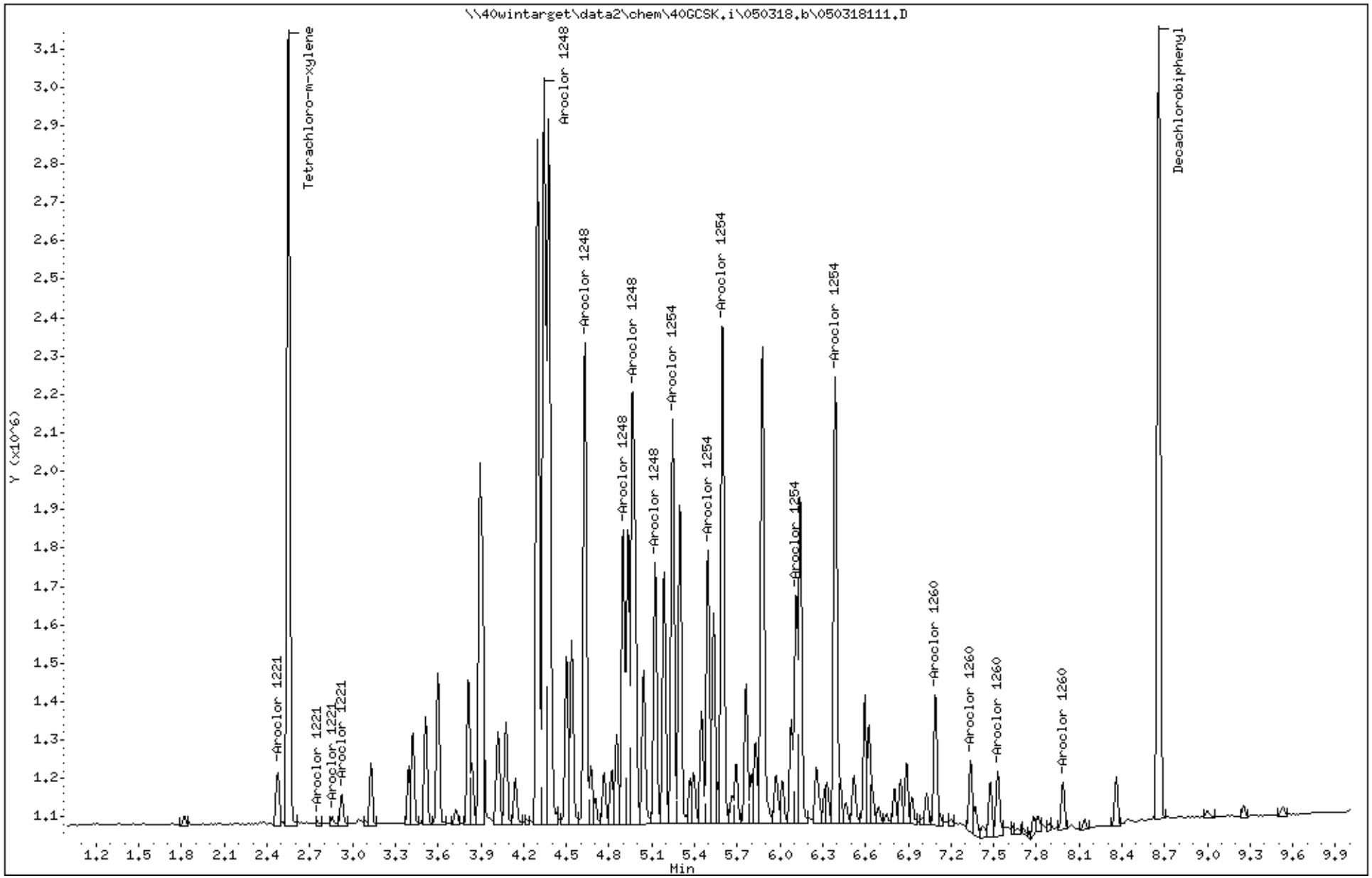
M - Compound response manually integrated.

Review Codes Legend

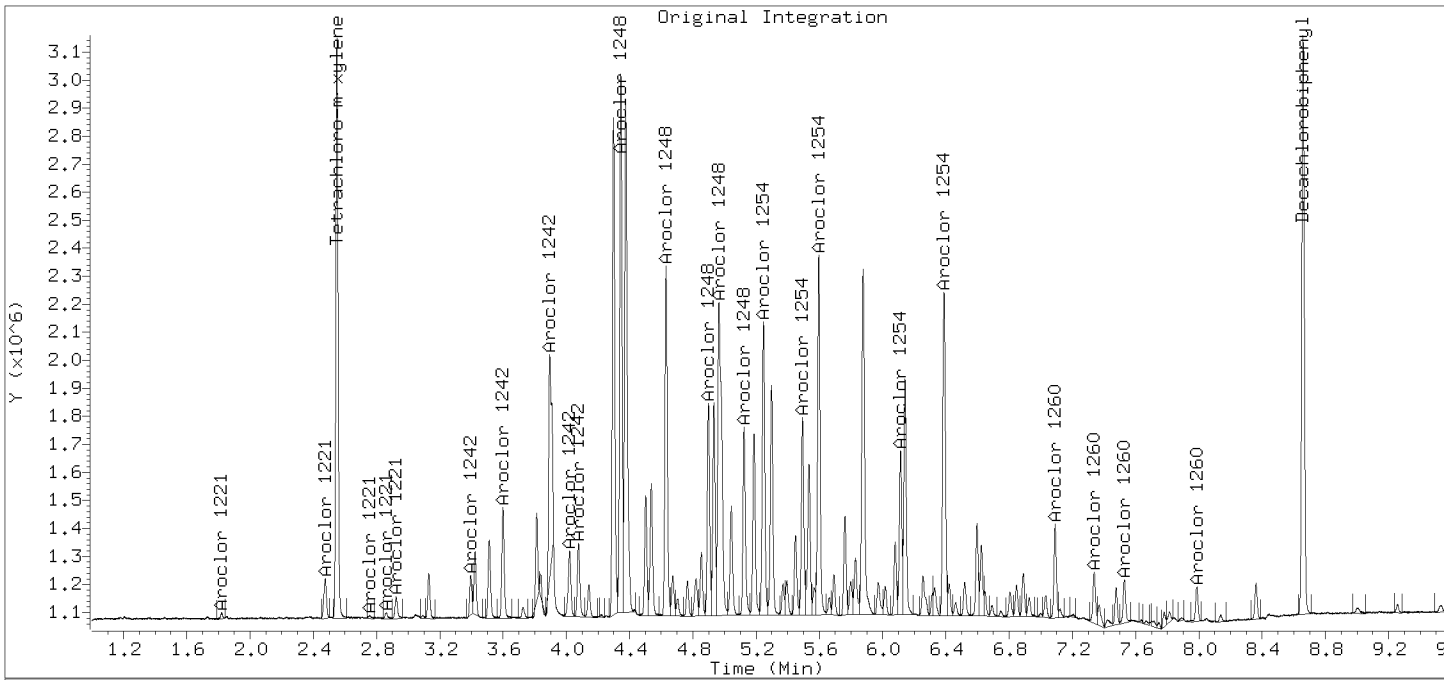
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

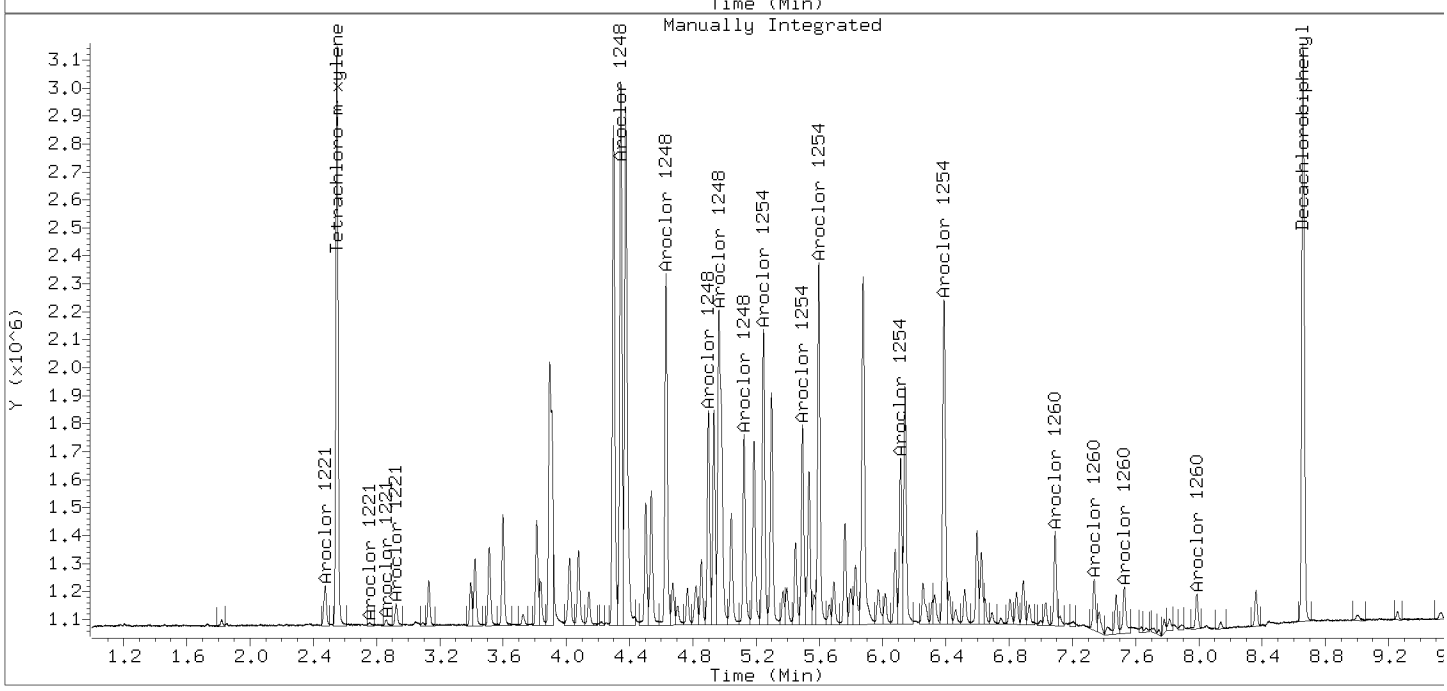
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318111.D
Date : 04-MAY-2018 00:38
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028008 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318111.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 00:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	135369	0	
Aroclor 1016	135369	0	
Aroclor 1016	135369	0	
Aroclor 1016	135369	0	
Aroclor 1016	135369	0	
Aroclor 1221	23417	0	BA
Aroclor 1221	23417	0	BA
Aroclor 1221	23417	0	BA
Aroclor 1221	23417	0	BA
Aroclor 1221	23417	0	BA
Aroclor 1232	87783	0	
Aroclor 1232	87783	0	
Aroclor 1232	87783	0	
Aroclor 1232	87783	0	

Aroclor 1232	87783	0	
Aroclor 1242	135369	0	
Aroclor 1242	135369	0	
Aroclor 1242	135369	0	
Aroclor 1242	135369	0	
Aroclor 1242	135369	0	
Aroclor 1248	2027571	2076873	BA
Aroclor 1248	2027571	2076873	BA
Aroclor 1248	2027571	2076873	BA
Aroclor 1248	2027571	2076873	BA
Aroclor 1248	2027571	2076873	BA
Aroclor 1254	1171598	1201872	BA
Aroclor 1254	1171598	1201872	BA
Aroclor 1254	1171598	1201872	BA
Aroclor 1254	1171598	1201872	BA
Aroclor 1254	1171598	1201872	BA
Aroclor 1260	1407276	0	BA
Aroclor 1260	1407276	0	BA
Aroclor 1260	1407276	0	BA
Aroclor 1260	1407276	0	BA
Aroclor 1260	1407276	0	BA
Tetrachloro-m-xylene	2044391	2057186	BA
Decachlorobiphenyl	2365880	2365880	

==========

SAMPLE NO.

SW5-170830-01-PKSD-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028009
Date Analyzed: 05/04/2018 00:54
Lab File ID: 050318.B\050318113.D
Initial wt/vol: 10.0361 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	244	J
11141-16-5	PCB-1232 (Aroclor 1232)	<56.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	912	
11097-69-1	PCB-1254 (Aroclor 1254)	359	
11096-82-5	PCB-1260 (Aroclor 1260)	98.0	J
1336-36-3	PCB, Total	1610	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318113.D
Lab Smp Id: 40158028009 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028009 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 13
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	10.036	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.853	12942	11142	0.861	0.03		1 Aroclor 1221	BA
2.228	15796	13624	0.862	0.04			
2.354	15052	13706	0.911	0.04			
2.378	16822	17250	1.025	0.04			
2.475	208720	165416	0.793	0.57		1 Aroclor 1221	BA
2.549	2191919	2221251	1.013	6.09	$	2 Tetrachloro-m-xylene	BA
2.754	20779	15488	0.745	0.05		1 Aroclor 1221	BA
2.861	32785	27962	0.853	0.09		1 Aroclor 1221	BA
2.923	120984	105097	0.869	0.33		1 Aroclor 1221	BA
3.048	21009	13354	0.636	0.05			
3.130	193607	187934	0.971	0.53			
3.395	162744	165411	1.016	0.45			
3.422	262661	243273	0.926	0.72			
3.513	342253	321827	0.940	0.95			
3.600	435142	406134	0.933	1.20			
3.725	41718	36179	0.867	0.11			
3.814	352697	339814	0.963	0.97			
3.838	159246	143483	0.901	0.44			
3.895	1482845	845910	0.570	4.12			
4.021	321782	257432	0.800	0.89			
4.077	295956	261461	0.883	0.82			
4.143	128384	118016	0.919	0.35			
4.222	17621	17460	0.991	0.04			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1693334	1560142	0.921	4.70	
4.345	1753270	1635260	0.933	4.87	6 Aroclor 1248
4.376	1909101	1549028	0.811	5.30	
4.502	438208	426406	0.973	1.21	
4.537	505003	433672	0.859	1.40	
4.631	1198181	1091778	0.911	3.32	6 Aroclor 1248
4.673	150451	129399	0.860	0.41	
4.702	92989	75684	0.814	0.25	
4.766	123083	106772	0.867	0.34	
4.820	164472	119605	0.727	0.45	
4.853	223747	200442	0.896	0.62	
4.898	662844	619114	0.934	1.84	6 Aroclor 1248
4.933	685325	639340	0.933	1.90	
4.966	1709019	918066	0.537	4.74	6 Aroclor 1248
5.043	418512	361035	0.863	1.16	
5.124	662884	577947	0.872	1.84	6 Aroclor 1248
5.186	681749	612558	0.899	1.89	
5.246	971119	831523	0.856	2.69	7 Aroclor 1254
5.298	798978	690439	0.864	2.21	
5.370	108045	103401	0.957	0.30	
5.394	166112	129821	0.782	0.46	
5.448	278087	244254	0.878	0.77	
5.493	653013	592782	0.908	1.81	7 Aroclor 1254
5.535	526154	444005	0.844	1.46	
5.566	108602	102382	0.943	0.30	
5.596	1238004	1117785	0.903	3.43	7 Aroclor 1254
5.661	71393	57350	0.803	0.19	
5.692	168006	140719	0.838	0.46	
5.762	334970	312821	0.934	0.93	
5.797	153428	115927	0.756	0.42	
5.828	229569	176991	0.771	0.63	
5.877	1355267	1045641	0.772	3.76	
5.972	164934	115712	0.702	0.45	
6.015	127060	95092	0.748	0.35	
6.080	229709	214242	0.933	0.63	
6.112	559862	478953	0.855	1.55	7 Aroclor 1254
6.141	796138	697494	0.876	2.21	
6.255	192699	116204	0.603	0.53	
6.314	55150	68260	1.238	0.15	
6.330	115362	86760	0.752	0.32	
6.388	1163092	985953	0.848	3.23	7 Aroclor 1254
6.421	98107	90312	0.921	0.27	
6.463	55830	45950	0.823	0.15	
6.519	128649	103002	0.801	0.35	
6.597	274848	253040	0.921	0.76	
6.624	291007	212673	0.731	0.80	
6.693	33445	28551	0.854	0.09	
6.746	23460	20627	0.879	0.06	
6.806	97861	79431	0.812	0.27	
6.846	118574	101382	0.855	0.32	
6.888	145136	125092	0.862	0.40	
6.927	92548	59686	0.645	0.25	
7.000	15012	18915	1.260	0.04	
7.031	87079	68428	0.786	0.24	
7.090	297548	259470	0.872	0.82	8 Aroclor 1260
7.123	26126	31510	1.206	0.07	
7.208	45786	23994	0.524	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.338	187811	156993	0.836	0.52	8 Aroclor 1260
7.367	98439	63241	0.642	0.27	
7.422	44448	30308	0.682	0.12	
7.476	112022	105350	0.940	0.31	
7.530	186806	140544	0.752	0.51	8 Aroclor 1260
7.663	17536	15717	0.896	0.04	
7.746	25731	23770	0.924	0.07	
7.781	49902	44111	0.884	0.13	
7.814	57280	39838	0.695	0.15	
7.985	140208	113442	0.809	0.38	8 Aroclor 1260
8.047	18450	11769	0.638	0.05	
8.137	25934	23935	0.923	0.07	
8.361	125446	111305	0.887	0.34	
8.658	2516291	2180493	0.867	7.47	$ 12 Decachlorobiphenyl
9.004	13665	11057	0.809	0.03	
9.255	31496	27035	0.858	0.08	
9.525	18471	13591	0.736	0.05	
	35991344	30603945		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318113.D
Lab Smp Id: 40158028009 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 00:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028009 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 13
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	10.036	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			
1.852	1.853	-0.001	12941	0.01307	32	0.00- 20.00	100.00(M)	BA
2.475	2.471	0.004	208720	0.39592	990	0.00- 20.00	1612.86	BA
2.754	2.758	-0.004	20778	0.01498	37	0.00- 20.00	160.56	BA
2.860	2.860	0.000	32785	0.02971	74	0.00- 20.00	253.34	BA
2.923	2.923	0.000	120984	0.03619	90	0.00- 20.00	934.89	BA
Average of Peak Concentrations =					240			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2191918	0.01820	45		(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         1753270 0.73502     1800   0.00-  20.00   100.00(M)      BA
4.631    4.630    0.001         1198181 0.28209      700   0.00-  20.00    68.34         BA
4.898    4.898    0.000          662843 0.32540      810   0.00-  20.00    37.81         BA
4.965    4.963    0.002         1709018 0.31201      780   0.00-  20.00    97.48         BA
5.124    5.123    0.001          662884 0.17521      440   0.00-  20.00    37.81         BA
               Average of Peak Concentrations =      910
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002          971118 0.17220      430   0.00-  20.00   100.00(M)      BA
5.493    5.492    0.001          653013 0.14002      350   0.00-  20.00    67.24         BA
5.596    5.596    0.000         1238004 0.14459      360   0.00-  20.00   127.48         BA
6.112    6.113   -0.001          559861 0.10538      260   0.00-  20.00    57.65         BA
6.388    6.387    0.001         1163091 0.15887      400   0.00-  20.00   119.77         BA
               Average of Peak Concentrations =      360
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.387    6.387    0.000               0    0.00     0.00   0.00-  20.00     0.00(M)      CO
7.090    7.090    0.000          297548 0.02528       63   0.00-  20.00    27.78         CO
7.338    7.338    0.000          187810 0.03320       83   0.00-  20.00    16.15         CO
7.529    7.529    0.000          186806 0.05464      140   0.00-  20.00    16.06         CO
7.985    7.987   -0.002          140207 0.04427      110   0.00-  20.00    12.05         CO
               Average of Peak Concentrations =       98
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.658    8.657    0.001         2516291 0.01889       47
-------------------------------------------------------------------------------
```

QC Flag Legend

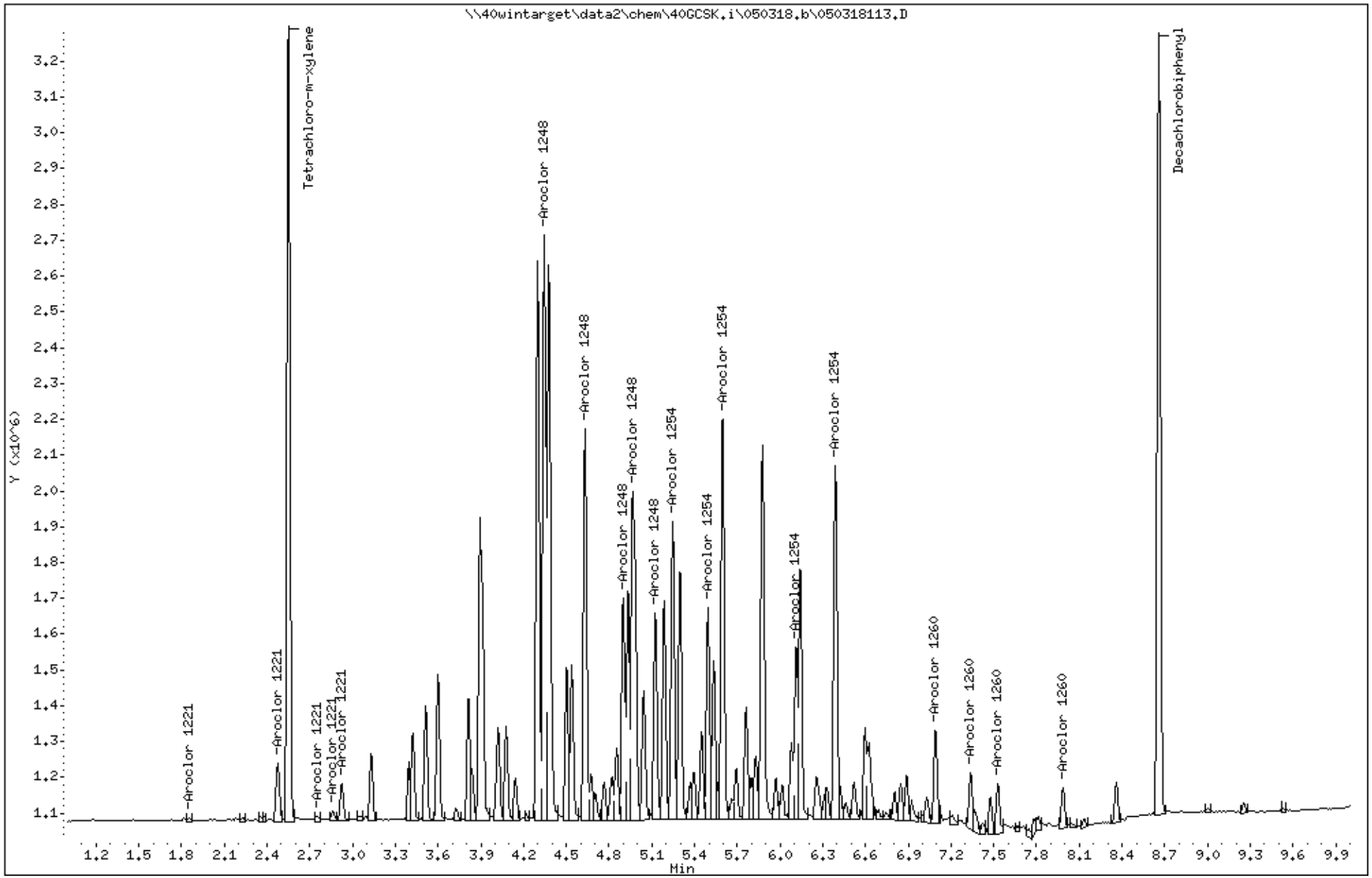
M - Compound response manually integrated.

Review Codes Legend

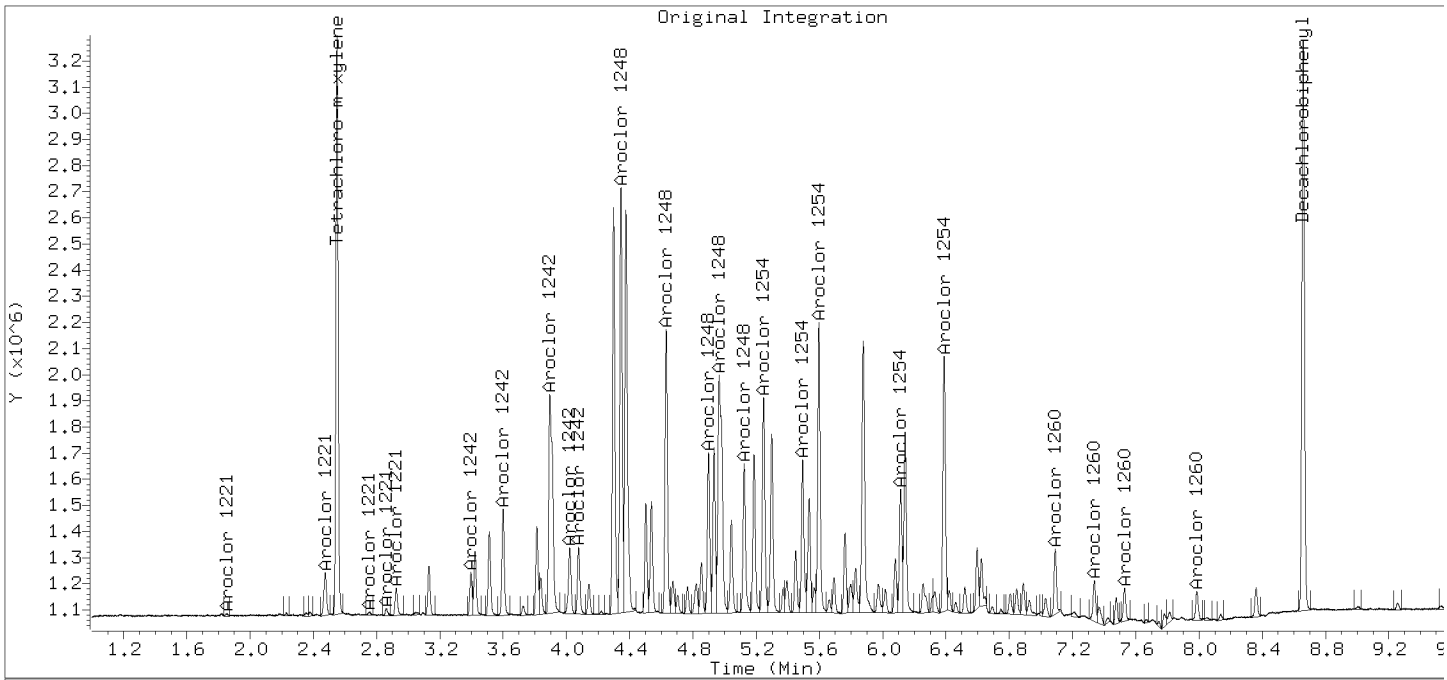
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

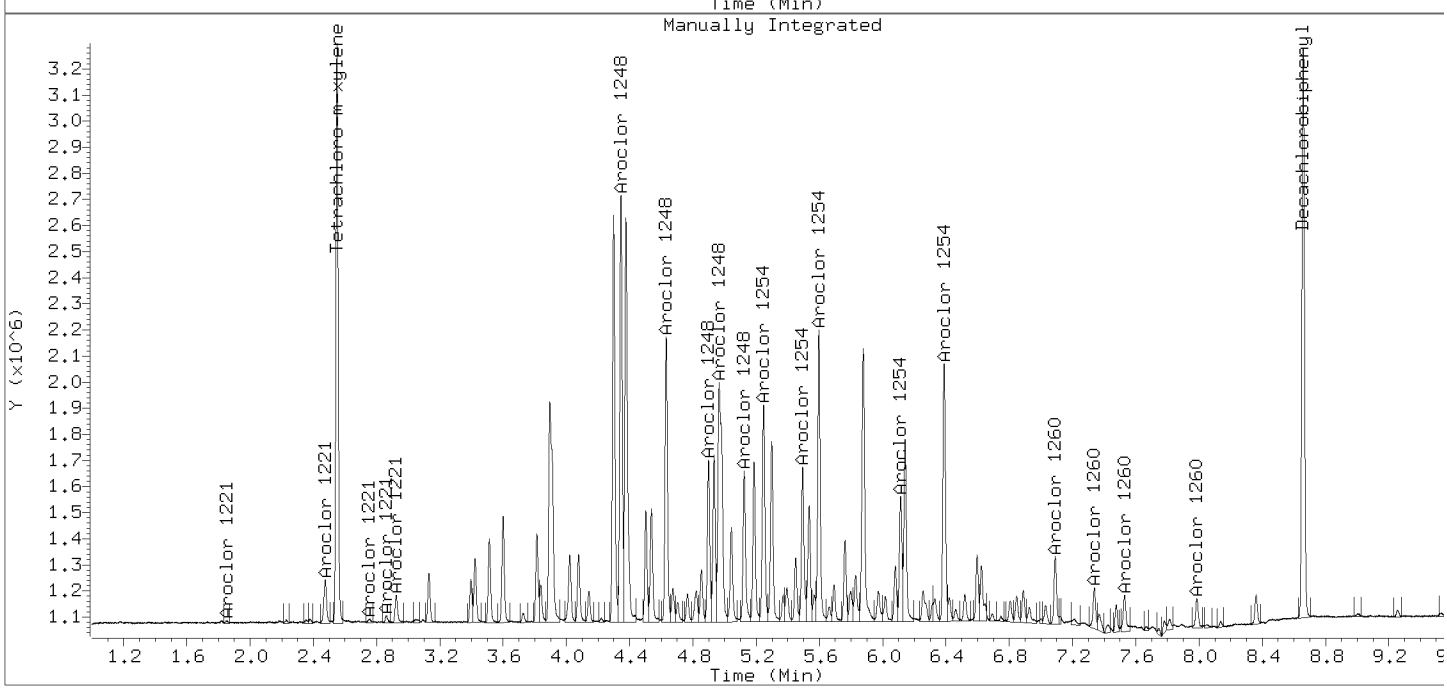
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318113.D
Date : 04-MAY-2018 00:54
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028009 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318113.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 00:54 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	162743	0	
Aroclor 1016	162743	0	
Aroclor 1016	162743	0	
Aroclor 1016	162743	0	
Aroclor 1016	162743	0	
Aroclor 1221	11105	12941	BA
Aroclor 1221	11105	12941	BA
Aroclor 1221	11105	12941	BA
Aroclor 1221	11105	12941	BA
Aroclor 1221	11105	12941	BA
Aroclor 1232	114129	0	
Aroclor 1232	114129	0	
Aroclor 1232	114129	0	
Aroclor 1232	114129	0	

Aroclor 1232	114129	0	
Aroclor 1242	162743	0	
Aroclor 1242	162743	0	
Aroclor 1242	162743	0	
Aroclor 1242	162743	0	
Aroclor 1242	162743	0	
Aroclor 1248	1731432	1753270	BA
Aroclor 1248	1731432	1753270	BA
Aroclor 1248	1731432	1753270	BA
Aroclor 1248	1731432	1753270	BA
Aroclor 1248	1731432	1753270	BA
Aroclor 1254	941538	971118	BA
Aroclor 1254	941538	971118	BA
Aroclor 1254	941538	971118	BA
Aroclor 1254	941538	971118	BA
Aroclor 1254	941538	971118	BA
Aroclor 1260	1130832	0	CO
Aroclor 1260	1130832	0	CO
Aroclor 1260	1130832	0	CO
Aroclor 1260	1130832	0	CO
Aroclor 1260	1130832	0	CO
Tetrachloro-m-xylene	2163159	2191918	BA
Decachlorobiphenyl	2516291	2516291	

==========

SAMPLE NO.

SW5-170830-01-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028010
Date Analyzed: 05/04/2018 01:10
Lab File ID: 050318.B\050318115.D
Initial wt/vol: 9.0855 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)	<62.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<62.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<62.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<62.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	1110	
11097-69-1	PCB-1254 (Aroclor 1254)	476	
11096-82-5	PCB-1260 (Aroclor 1260)	106	J
1336-36-3	PCB, Total	1690	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318115.D
Lab Smp Id: 40158028010 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028010 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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	9.085	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.456	9809	7572	0.772	0.02		
1.820	10003	13036	1.303	0.02		
1.849	11648	7713	0.662	0.02		
2.475	149854	119428	0.797	0.38		
2.549	2187630	2209686	1.010	5.59	$ 2 Tetrachloro-m-xylene	
2.860	17729	17543	0.990	0.04		
2.924	70509	60663	0.860	0.18		
3.092	10504	12041	1.146	0.02		
3.130	135989	135749	0.998	0.34		
3.395	123486	122014	0.988	0.31		
3.421	209639	191449	0.913	0.53		
3.513	246155	231041	0.939	0.62		
3.599	350776	325397	0.928	0.89		
3.729	38923	31452	0.808	0.09		
3.813	304842	296903	0.974	0.78		
3.836	142662	126956	0.890	0.36		
3.896	1368248	771622	0.564	3.50		
4.021	257036	209169	0.814	0.65		
4.076	278215	243824	0.876	0.71		
4.142	126837	113666	0.896	0.32		
4.219	15558	11975	0.770	0.03		
4.298	1879100	1725834	0.918	4.80		
4.345	1949979	1815411	0.931	4.99	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.376	2102348	1694766	0.806	5.38	
4.502	433074	405273	0.936	1.10	
4.538	515636	456398	0.885	1.31	
4.630	1291924	1197377	0.927	3.30	6 Aroclor 1248
4.672	158792	135023	0.850	0.40	
4.703	88350	67275	0.761	0.22	
4.766	136953	122144	0.892	0.35	
4.820	167339	125728	0.751	0.42	
4.853	235210	210617	0.895	0.60	
4.899	728330	695811	0.955	1.86	6 Aroclor 1248
4.932	701603	663878	0.946	1.79	
4.965	1933653	1011103	0.523	4.94	6 Aroclor 1248
5.043	533027	466570	0.875	1.36	
5.124	679730	596409	0.877	1.73	6 Aroclor 1248
5.186	813545	709903	0.873	2.08	
5.246	1183502	1023048	0.864	3.02	7 Aroclor 1254
5.297	918231	787564	0.858	2.34	
5.370	129111	119926	0.929	0.33	
5.395	163803	128248	0.783	0.41	
5.449	332195	301304	0.907	0.85	
5.493	752735	656740	0.872	1.92	7 Aroclor 1254
5.534	566311	498100	0.880	1.44	
5.567	149920	133709	0.892	0.38	
5.596	1502155	1323850	0.881	3.84	7 Aroclor 1254
5.661	87362	76893	0.880	0.22	
5.691	185515	153690	0.828	0.47	
5.761	427752	405703	0.948	1.09	
5.796	189945	150173	0.791	0.48	
5.828	276751	213272	0.771	0.70	
5.876	1655797	1248703	0.754	4.23	
5.973	201189	144813	0.720	0.51	
6.017	142922	113400	0.793	0.36	
6.079	307302	275439	0.896	0.78	
6.113	689852	598791	0.868	1.76	7 Aroclor 1254
6.142	912886	780613	0.855	2.33	
6.257	250392	136796	0.546	0.64	
6.314	79472	86841	1.093	0.20	
6.330	138388	106855	0.772	0.35	
6.388	1383394	1157218	0.837	3.54	7 Aroclor 1254
6.421	123979	114011	0.920	0.31	
6.462	73512	50826	0.691	0.18	
6.519	172043	138854	0.807	0.44	
6.597	390449	374347	0.959	0.99	
6.624	323153	229227	0.709	0.82	
6.692	45091	35514	0.788	0.11	
6.748	31156	24888	0.799	0.07	
6.806	139317	121452	0.872	0.35	
6.847	149765	128171	0.856	0.38	
6.889	171621	148686	0.866	0.43	
6.926	95760	75975	0.793	0.24	
6.996	24794	21264	0.858	0.06	
7.030	95520	79882	0.836	0.24	
7.090	331621	291323	0.878	0.84	8 Aroclor 1260
7.124	31417	36853	1.173	0.08	
7.206	52170	29015	0.556	0.13	
7.337	190203	160422	0.843	0.48	8 Aroclor 1260
7.369	99524	69368	0.697	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.419	41048	28591	0.697	0.10	
7.475	165987	144984	0.873	0.42	
7.528	204950	149325	0.729	0.52	8 Aroclor 1260
7.666	12673	13239	1.045	0.03	
7.747	20637	20107	0.974	0.05	
7.780	48662	44063	0.905	0.12	
7.814	62719	47292	0.754	0.16	
7.886	27353	16714	0.611	0.07	
7.987	104691	88357	0.844	0.26	8 Aroclor 1260
8.136	35847	26748	0.746	0.09	
8.362	110902	100151	0.903	0.28	
8.658	2571313	2232212	0.868	7.08	$ 12 Decachlorobiphenyl
8.999	12756	13942	1.093	0.03	
9.255	30126	25110	0.833	0.07	
9.529	42621	26095	0.612	0.10	
	39074909	33087116		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318115.D
Lab Smp Id: 40158028010 Client Smp ID: SW5-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028010 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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	9.085	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	2187629	0.01816	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	1949979	0.81748	2200	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1291923	0.30417	840	0.00- 20.00	66.25	BA
4.898	4.898	0.000	728329	0.35754	980	0.00- 20.00	37.35	BA
4.965	4.963	0.002	1933653	0.35302	970	0.00- 20.00	99.16	BA
5.123	5.123	0.000	679730	0.17967	490	0.00- 20.00	34.86	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1183502	0.20985	580	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	752735	0.16140	440	0.00- 20.00	63.60	BA
5.596	5.596	0.000	1502155	0.17544	480	0.00- 20.00	126.92	BA
6.113	6.113	0.000	689851	0.12985	360	0.00- 20.00	58.29	BA
6.387	6.387	0.000	1383394	0.18896	520	0.00- 20.00	116.89	BA
Average of Peak Concentrations =					480			
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	331621	0.02818	78	0.00- 20.00	0.00	CO
7.337	7.338	-0.001	190203	0.03363	92	0.00- 20.00	0.00	CO
7.527	7.529	-0.002	204950	0.05995	160	0.00- 20.00	0.00	CO
7.986	7.987	-0.001	104690	0.03306	91	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	2571312	0.01931	53			

QC Flag Legend

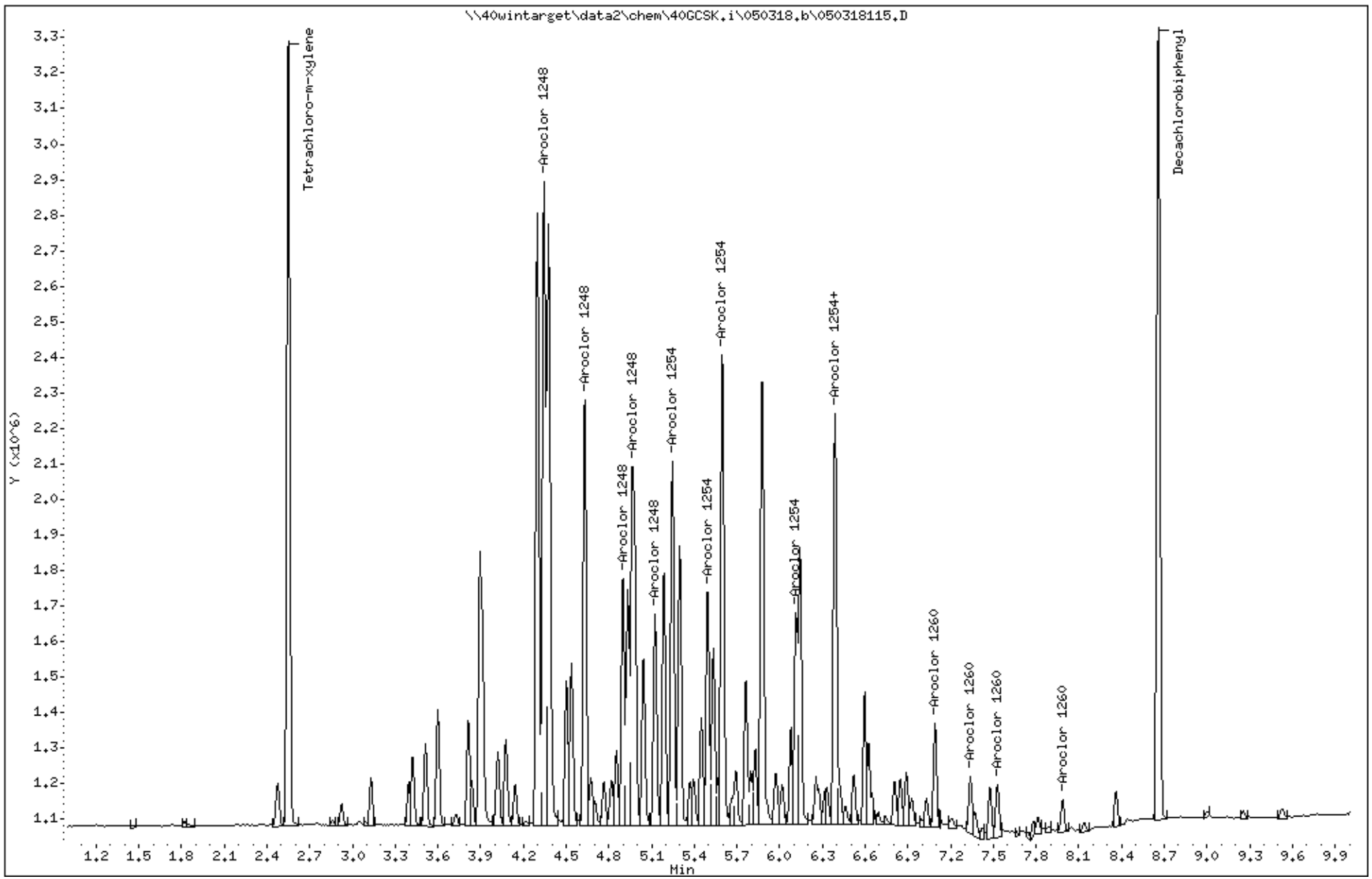
M - Compound response manually integrated.

Review Codes Legend

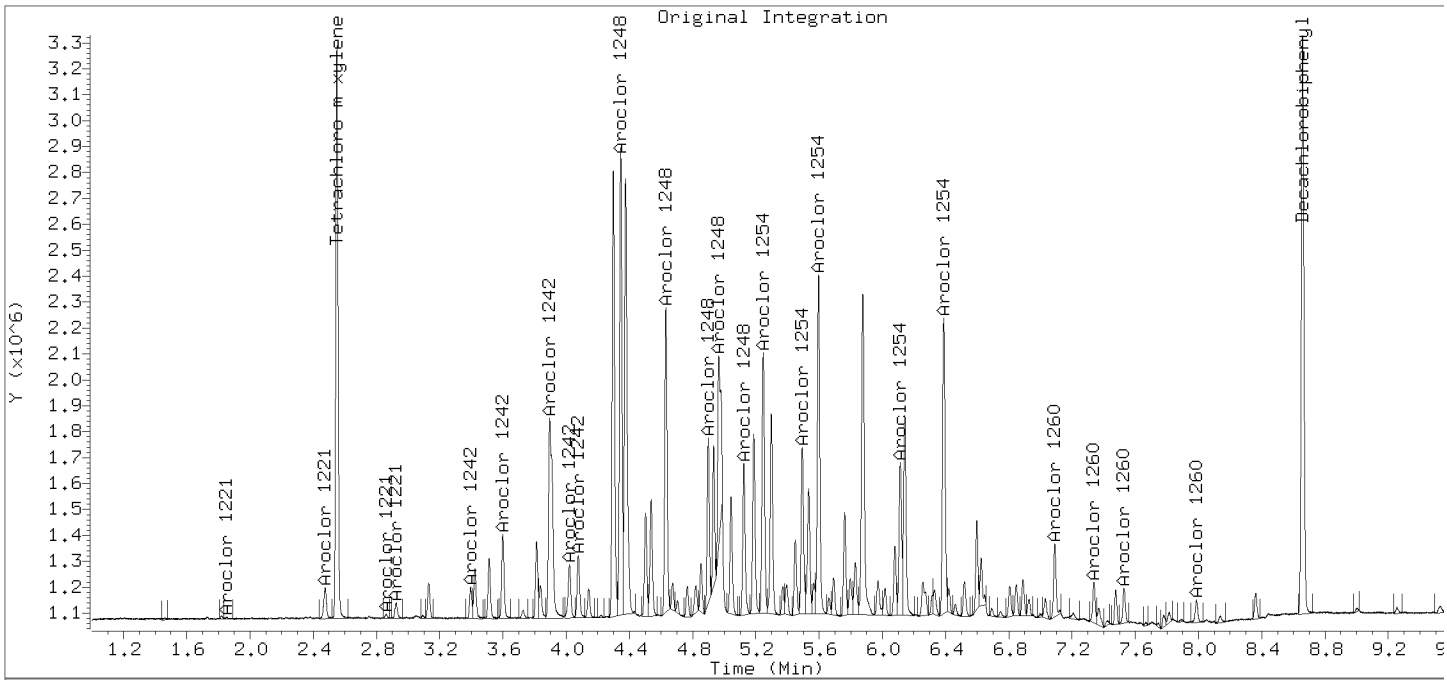
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

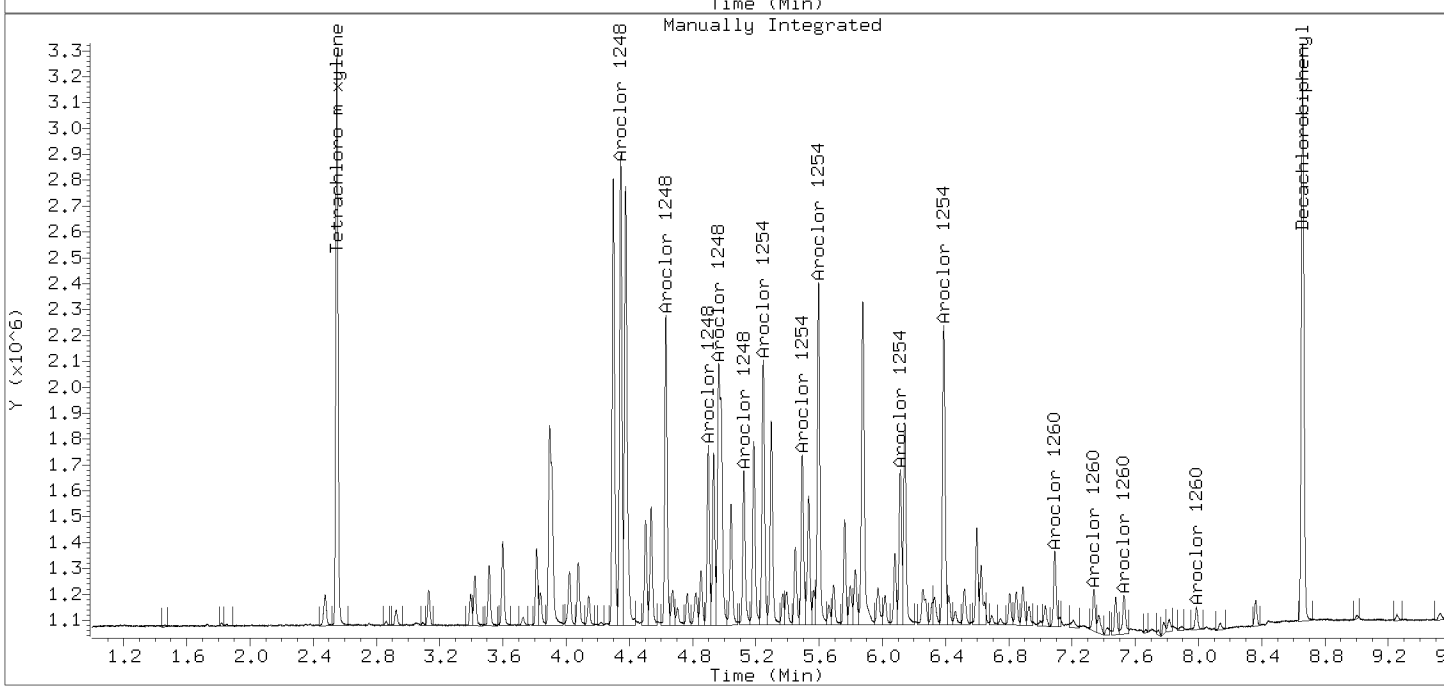
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318115.D
Date : 04-MAY-2018 01:10
Client ID: SW5-170830-01-PKSD-
Sample Info: 40158028010 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318115.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 01:10 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	123485	0	
Aroclor 1016	123485	0	
Aroclor 1016	123485	0	
Aroclor 1016	123485	0	
Aroclor 1016	123485	0	
Aroclor 1221	11648	0	
Aroclor 1221	11648	0	
Aroclor 1221	11648	0	
Aroclor 1221	11648	0	
Aroclor 1221	11648	0	
Aroclor 1232	70509	0	
Aroclor 1232	70509	0	
Aroclor 1232	70509	0	
Aroclor 1232	70509	0	

Aroclor 1232	70509	0	
Aroclor 1242	123485	0	
Aroclor 1242	123485	0	
Aroclor 1242	123485	0	
Aroclor 1242	123485	0	
Aroclor 1242	123485	0	
Aroclor 1248	1919608	1949979	BA
Aroclor 1248	1919608	1949979	BA
Aroclor 1248	1919608	1949979	BA
Aroclor 1248	1919608	1949979	BA
Aroclor 1248	1919608	1949979	BA
Aroclor 1254	1126840	1183502	BA
Aroclor 1254	1126840	1183502	BA
Aroclor 1254	1126840	1183502	BA
Aroclor 1254	1126840	1183502	BA
Aroclor 1254	1126840	1183502	BA
Aroclor 1260	1339493	0	CO
Aroclor 1260	1339493	0	CO
Aroclor 1260	1339493	0	CO
Aroclor 1260	1339493	0	CO
Aroclor 1260	1339493	0	CO
Tetrachloro-m-xylene	2187629	2187629	
Decachlorobiphenyl	2571312	2571312	

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SAMPLE NO.

SW4-170830-01-PKSD-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028011
Date Analyzed: 05/04/2018 01:26
Lab File ID: 050318.B\050318117.D
Initial wt/vol: 10.002 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)	192	J
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)	841	
11097-69-1	PCB-1254 (Aroclor 1254)	414	
11096-82-5	PCB-1260 (Aroclor 1260)	89.7	J
1336-36-3	PCB, Total	1540	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318117.D
Lab Smp Id: 40158028011 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028011 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 17
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	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.821	32577	36762	1.128	0.07		
1.853	15623	13986	0.895	0.03	1 Aroclor 1221	BA
2.063	12761	8380	0.657	0.02		
2.374	10990	10438	0.950	0.02		
2.474	208814	165870	0.794	0.47	1 Aroclor 1221	BA
2.549	2822236	2887134	1.023	6.41	$ 2 Tetrachloro-m-xylene	BA
2.752	19008	14913	0.785	0.04	1 Aroclor 1221	BA
2.862	29552	23892	0.808	0.06	1 Aroclor 1221	BA
2.925	95602	82499	0.863	0.21	1 Aroclor 1221	BA
3.090	17667	18635	1.055	0.04		
3.130	198479	194030	0.978	0.45		
3.395	141615	141546	1.000	0.32		
3.423	215554	198651	0.922	0.49		
3.513	291556	278683	0.956	0.66		
3.599	348613	318003	0.912	0.79		
3.729	45764	35431	0.774	0.10		
3.813	307522	297790	0.968	0.69		
3.837	147145	136735	0.929	0.33		
3.895	1290757	759703	0.589	2.93		
4.021	288014	231514	0.804	0.65		
4.078	295807	256883	0.868	0.67		
4.143	139244	124514	0.894	0.31		
4.220	21511	17153	0.797	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1816017	1652320	0.910	4.12	
4.345	1846207	1733990	0.939	4.19	6 Aroclor 1248
4.376	1981836	1613087	0.814	4.50	
4.433	39172	29752	0.760	0.08	
4.502	547531	531010	0.970	1.24	
4.537	580203	520758	0.898	1.31	
4.631	1326189	1205088	0.909	3.01	6 Aroclor 1248
4.674	163037	137964	0.846	0.37	
4.703	101929	85543	0.839	0.23	
4.765	149932	131001	0.874	0.34	
4.819	180782	130774	0.723	0.41	
4.853	287152	255404	0.889	0.65	
4.898	813985	777684	0.955	1.85	6 Aroclor 1248
4.933	848667	802056	0.945	1.92	
4.966	2192182	1197663	0.546	4.98	6 Aroclor 1248
5.043	492100	427999	0.870	1.11	
5.124	818903	719386	0.878	1.86	6 Aroclor 1248
5.187	846830	760107	0.898	1.92	
5.247	1412486	1212416	0.858	3.21	7 Aroclor 1254
5.298	1104389	940192	0.851	2.51	
5.370	144975	131431	0.907	0.32	
5.394	219173	175177	0.799	0.49	
5.449	404045	364996	0.903	0.91	
5.494	924247	837228	0.906	2.10	7 Aroclor 1254
5.535	734127	637625	0.869	1.66	
5.566	134737	129586	0.962	0.30	
5.596	1718150	1502701	0.875	3.90	7 Aroclor 1254
5.663	86912	77401	0.891	0.19	
5.692	224172	187412	0.836	0.50	
5.761	488769	459519	0.940	1.11	
5.797	215396	171986	0.798	0.48	
5.829	315753	232811	0.737	0.71	
5.877	1951289	1478094	0.757	4.43	
5.972	217307	149784	0.689	0.49	
6.017	157370	125216	0.796	0.35	
6.079	332149	313522	0.944	0.75	
6.113	835302	719208	0.861	1.89	7 Aroclor 1254
6.142	1120927	972964	0.868	2.54	
6.256	199917	174613	0.873	0.45	
6.316	82580	98891	1.198	0.18	
6.330	172044	126936	0.738	0.39	
6.388	1666026	1378800	0.828	3.78	7 Aroclor 1254
6.422	148983	133606	0.897	0.33	
6.463	81073	61523	0.759	0.18	
6.520	195033	153067	0.785	0.44	
6.597	411562	382988	0.931	0.93	
6.625	381470	279657	0.733	0.86	
6.690	53880	44088	0.818	0.12	
6.749	33512	28848	0.861	0.07	
6.807	145741	128499	0.882	0.33	
6.846	166541	140659	0.845	0.37	
6.890	192772	168851	0.876	0.43	
6.927	122501	85677	0.699	0.27	
7.000	24284	19544	0.805	0.05	
7.029	112022	91362	0.816	0.25	
7.092	363737	313675	0.862	0.82	8 Aroclor 1260
7.122	33747	40557	1.202	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.208	48360	27589	0.570	0.10	
7.337	218734	188097	0.860	0.49	8 Aroclor 1260
7.369	122281	81754	0.669	0.27	
7.423	74856	36834	0.492	0.17	
7.477	163556	150476	0.920	0.37	
7.530	246097	171270	0.696	0.55	8 Aroclor 1260
7.667	22786	19365	0.850	0.05	
7.708	42622	20657	0.485	0.09	
7.749	20319	23237	1.144	0.04	
7.781	56391	54300	0.963	0.12	
7.816	72113	51716	0.717	0.16	
7.891	28020	17867	0.638	0.06	
7.988	120268	100601	0.836	0.27	8 Aroclor 1260
8.047	13245	9868	0.745	0.03	
8.138	28408	27002	0.950	0.06	
8.362	131711	120784	0.917	0.29	
8.535	11708	8426	0.720	0.02	
8.659	3118917	2705887	0.868	7.61	$ 12 Decachlorobiphenyl
9.001	26488	17167	0.648	0.06	
9.255	31790	26968	0.848	0.07	
9.529	31253	20623	0.660	0.07	
	43988089	37516329		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318117.D
Lab Smp Id: 40158028011 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028011 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 17
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	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.852	1.853	-0.001	15623	0.01577	32	0.00- 20.00	100.00(M)	BA
2.474	2.471	0.003	208813	0.39609	790	0.00- 20.00	1336.57	BA
2.751	2.758	-0.007	19008	0.01370	27	0.00- 20.00	121.67	BA
2.862	2.860	0.002	29552	0.02678	54	0.00- 20.00	189.16	BA
2.925	2.923	0.002	95601	0.02860	57	0.00- 20.00	611.92	BA
Average of Peak Concentrations =					190			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2822236	0.02343	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         1846207 0.77398     1500   0.00-  20.00   100.00(M)      BA
4.631    4.630    0.001         1326189 0.31223      620   0.00-  20.00    71.83         BA
4.897    4.898   -0.001          813984 0.39959      800   0.00-  20.00    44.09         BA
4.965    4.963    0.002         2192182 0.40022      800   0.00-  20.00   118.74         BA
5.123    5.123    0.000          818903 0.21645      430   0.00-  20.00    44.36         BA
               Average of Peak Concentrations =      840
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002         1412486 0.25046      500   0.00-  20.00   100.00(M)      BA
5.493    5.492    0.001          924246 0.19818      400   0.00-  20.00    65.43         BA
5.596    5.596    0.000         1718149 0.20067      400   0.00-  20.00   121.64         BA
6.113    6.113    0.000          835302 0.15722      310   0.00-  20.00    59.14         BA
6.388    6.387    0.001         1666025 0.22757      460   0.00-  20.00   117.95         BA
               Average of Peak Concentrations =      410
-------------------------------------------------------------------------------
    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
7.092    7.090    0.002          363736 0.03091       62   0.00-  20.00    23.82         CO
7.337    7.338   -0.001          218733 0.03867       77   0.00-  20.00    13.13         CO
7.529    7.529    0.000          246096 0.07198      140   0.00-  20.00    14.77         CO
7.987    7.987    0.000          120267 0.03797       76   0.00-  20.00     7.22         CO
               Average of Peak Concentrations =       90
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.658    8.657    0.001         3118917 0.02342       47
-------------------------------------------------------------------------------
```

QC Flag Legend

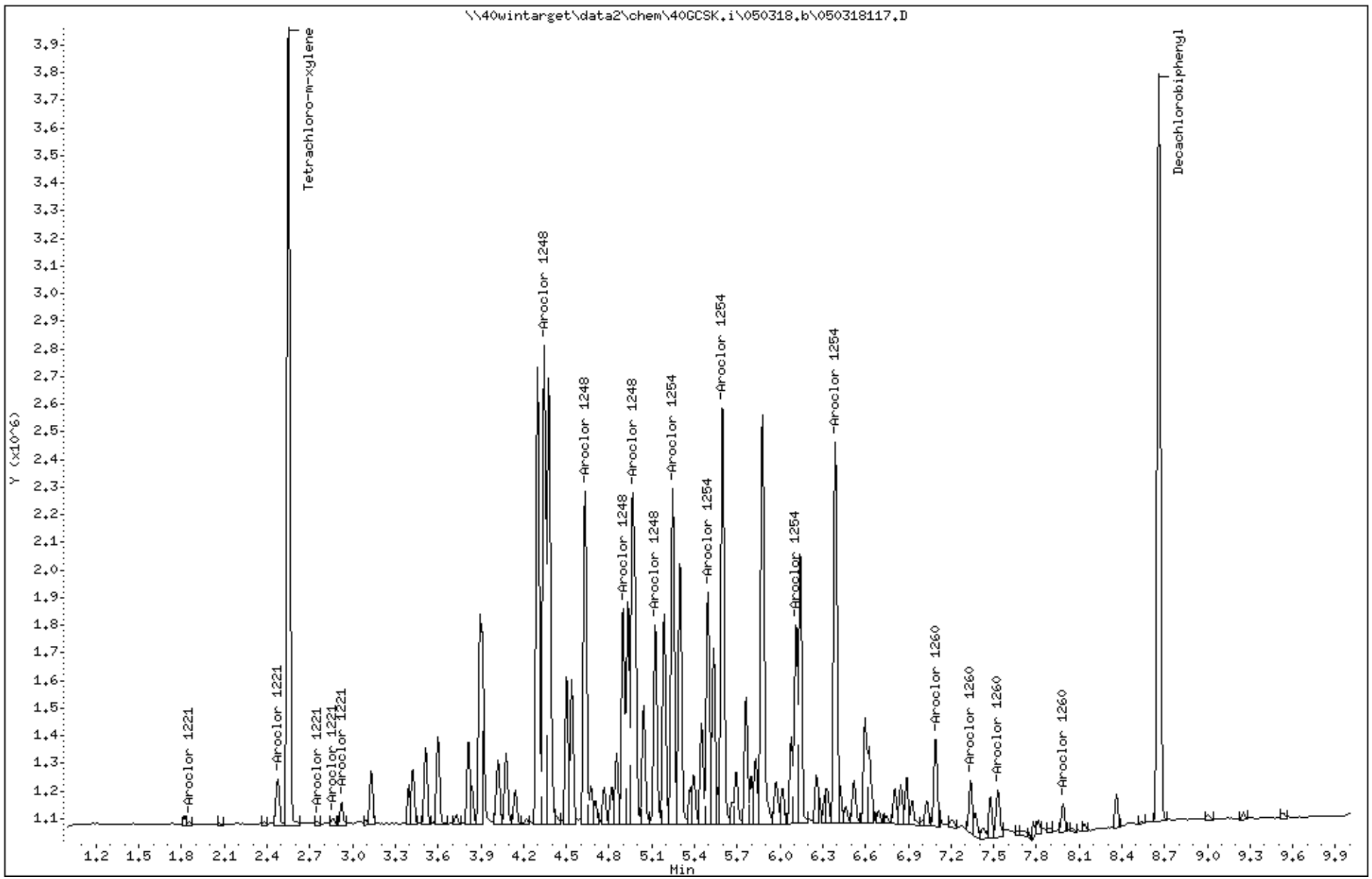
M - Compound response manually integrated.

Review Codes Legend

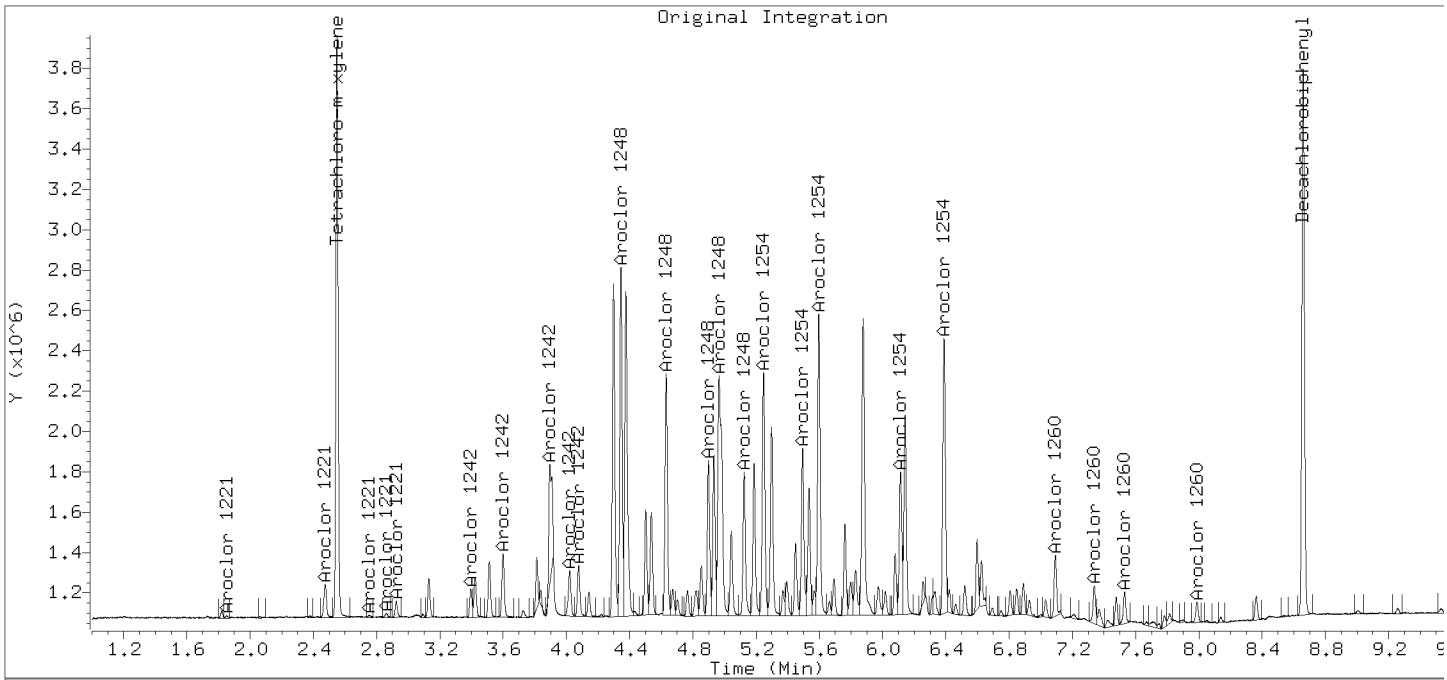
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

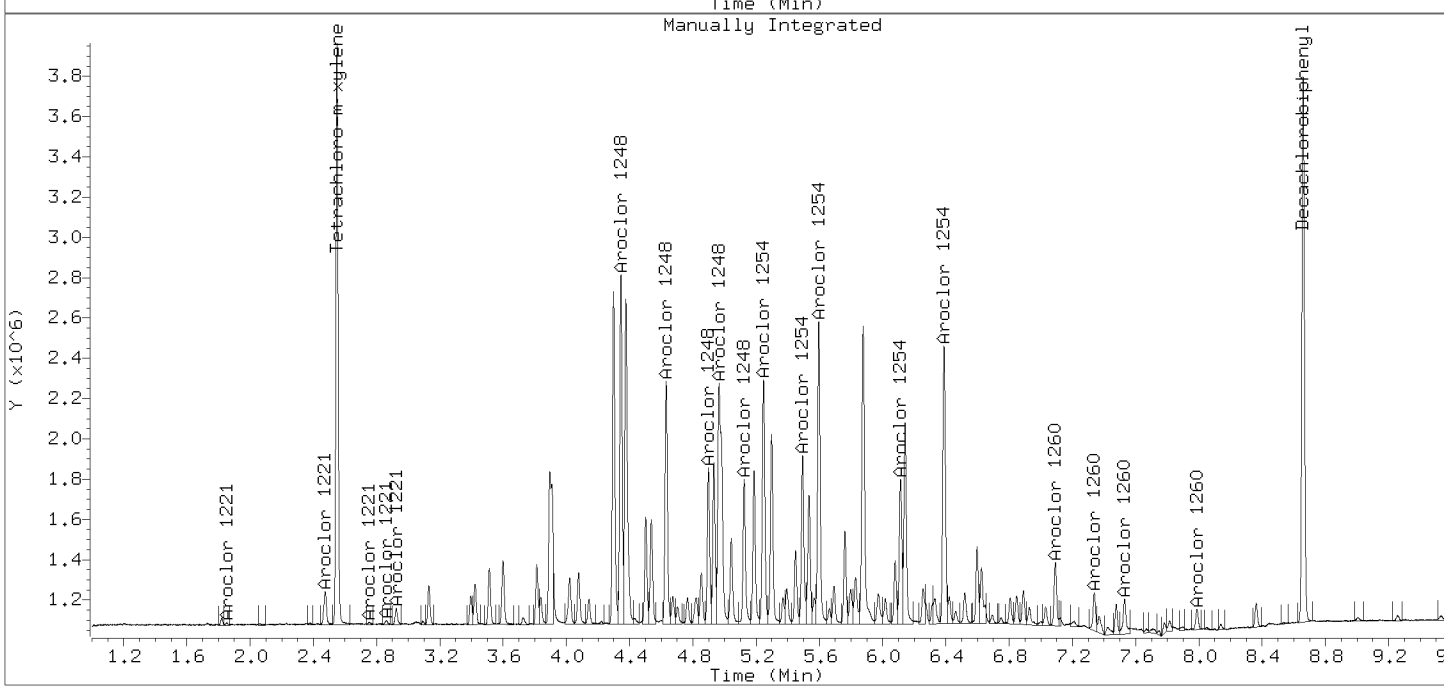
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318117.D
Date : 04-MAY-2018 01:26
Client ID: SW4-170830-01-PKSD-
Sample Info: 40158028011 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318117.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 01:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	141615	0	
Aroclor 1016	141615	0	
Aroclor 1016	141615	0	
Aroclor 1016	141615	0	
Aroclor 1016	141615	0	
Aroclor 1221	14609	15623	BA
Aroclor 1221	14609	15623	BA
Aroclor 1221	14609	15623	BA
Aroclor 1221	14609	15623	BA
Aroclor 1221	14609	15623	BA
Aroclor 1232	87910	0	
Aroclor 1232	87910	0	
Aroclor 1232	87910	0	
Aroclor 1232	87910	0	

Aroclor 1232	87910	0	
Aroclor 1242	141615	0	
Aroclor 1242	141615	0	
Aroclor 1242	141615	0	
Aroclor 1242	141615	0	
Aroclor 1242	141615	0	
Aroclor 1248	1833014	1846207	BA
Aroclor 1248	1833014	1846207	BA
Aroclor 1248	1833014	1846207	BA
Aroclor 1248	1833014	1846207	BA
Aroclor 1248	1833014	1846207	BA
Aroclor 1254	1391271	1412486	BA
Aroclor 1254	1391271	1412486	BA
Aroclor 1254	1391271	1412486	BA
Aroclor 1254	1391271	1412486	BA
Aroclor 1254	1391271	1412486	BA
Aroclor 1260	1616608	0	CO
Aroclor 1260	1616608	0	CO
Aroclor 1260	1616608	0	CO
Aroclor 1260	1616608	0	CO
Aroclor 1260	1616608	0	CO
Tetrachloro-m-xylene	2809536	2822236	BA
Decachlorobiphenyl	3118917	3118917	

==========

SAMPLE NO.

SW4-170830-01-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028012
Date Analyzed: 05/04/2018 01:43
Lab File ID: 050318.B\050318119.D
Initial wt/vol: 9.9935 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	233	J
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	923	
11097-69-1	PCB-1254 (Aroclor 1254)	452	
11096-82-5	PCB-1260 (Aroclor 1260)	110	J
1336-36-3	PCB, Total	1720	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318119.D
Lab Smp Id: 40158028012 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:43
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028012 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 19
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	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.818	12956	11404	0.880	0.03		
1.852	21930	14839	0.677	0.05	1 Aroclor 1221	BA
2.354	15527	12577	0.810	0.03		
2.378	16129	15307	0.949	0.04		
2.475	196820	148247	0.753	0.49	1 Aroclor 1221	BA
2.549	2276726	2271553	0.998	5.77	$ 2 Tetrachloro-m-xylene	BA
2.755	23064	13306	0.577	0.05	1 Aroclor 1221	BA
2.861	29151	21447	0.736	0.07	1 Aroclor 1221	BA
2.925	92265	76879	0.833	0.23	1 Aroclor 1221	BA
3.044	18256	14942	0.818	0.04		
3.063	15146	16064	1.061	0.03		
3.093	18566	17251	0.929	0.04		
3.131	148208	141064	0.952	0.37		
3.396	131588	134179	1.020	0.33		
3.422	203973	183723	0.901	0.51		
3.512	292950	271138	0.926	0.74		
3.599	316046	295068	0.934	0.80		
3.727	39590	33086	0.836	0.10		
3.812	282514	276587	0.979	0.71		
3.837	139585	122478	0.877	0.35		
3.895	1193679	704556	0.590	3.02		
4.021	280005	224123	0.800	0.70		
4.077	268160	232763	0.868	0.67		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.143	127367	110192	0.865	0.32	
4.220	20045	15446	0.771	0.05	
4.298	1604699	1456220	0.907	4.06	
4.345	1587421	1485991	0.936	4.02	6 Aroclor 1248
4.376	1748116	1428643	0.817	4.43	
4.434	46042	27617	0.600	0.11	
4.503	493398	475058	0.963	1.25	
4.537	532817	458665	0.861	1.35	
4.630	1199684	1112414	0.927	3.04	6 Aroclor 1248
4.672	141113	120335	0.853	0.35	
4.704	95152	82091	0.863	0.24	
4.765	129506	110244	0.851	0.32	
4.820	151832	110948	0.731	0.38	
4.852	273201	241152	0.883	0.69	
4.898	732888	679243	0.927	1.85	6 Aroclor 1248
4.934	739969	709218	0.958	1.87	
4.965	1904253	1048670	0.551	4.82	6 Aroclor 1248
5.043	402305	352388	0.876	1.02	
5.125	715036	644070	0.901	1.81	6 Aroclor 1248
5.187	740104	654014	0.884	1.87	
5.247	1222259	1036122	0.848	3.09	7 Aroclor 1254
5.298	956490	832576	0.870	2.42	
5.370	119849	114028	0.951	0.30	
5.394	203707	159153	0.781	0.51	
5.450	353740	315760	0.893	0.89	
5.494	791825	728286	0.920	2.00	7 Aroclor 1254
5.535	643830	545807	0.848	1.63	
5.565	104127	102732	0.987	0.26	
5.596	1505949	1335976	0.887	3.81	7 Aroclor 1254
5.662	75706	64157	0.847	0.19	
5.692	195771	161338	0.824	0.49	
5.761	410785	387338	0.943	1.04	
5.798	190519	146753	0.770	0.48	
5.828	278798	208413	0.748	0.70	
5.877	1709025	1299974	0.761	4.33	
5.974	187511	132598	0.707	0.47	
6.018	144393	108292	0.750	0.36	
6.080	298008	277372	0.931	0.75	
6.114	725238	632373	0.872	1.83	7 Aroclor 1254
6.141	979976	836117	0.853	2.48	
6.256	241865	150865	0.624	0.61	
6.315	80658	87406	1.084	0.20	
6.330	141663	111581	0.788	0.35	
6.388	1490544	1245722	0.836	3.77	7 Aroclor 1254
6.421	145415	122868	0.845	0.36	
6.462	72470	57765	0.797	0.18	
6.520	173953	138914	0.799	0.44	
6.597	384906	352234	0.915	0.97	
6.625	291892	257802	0.883	0.74	
6.646	86795	85169	0.981	0.22	
6.692	47228	39727	0.841	0.11	
6.750	34971	27504	0.786	0.08	
6.807	118744	97438	0.821	0.30	
6.846	144068	121433	0.843	0.36	
6.890	181602	155767	0.858	0.46	
6.926	119940	78294	0.653	0.30	
7.000	28513	19951	0.700	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.030	101671	86370	0.850	0.25	
7.091	340633	295874	0.869	0.86	8 Aroclor 1260
7.122	50668	38690	0.764	0.12	
7.202	76458	32046	0.419	0.19	
7.338	201426	176844	0.878	0.51	8 Aroclor 1260
7.370	111261	73564	0.661	0.28	
7.426	71424	37100	0.519	0.18	
7.477	134437	128112	0.953	0.34	
7.530	239434	157738	0.659	0.60	8 Aroclor 1260
7.632	26372	21855	0.829	0.06	
7.669	24477	17317	0.707	0.06	
7.699	24799	14934	0.602	0.06	
7.748	32811	36035	1.098	0.08	
7.782	60784	54799	0.902	0.15	
7.814	67074	46965	0.700	0.17	
7.839	72183	46323	0.642	0.18	
7.891	56678	24696	0.436	0.14	
7.948	14426	12391	0.859	0.03	
7.985	131278	99544	0.758	0.33	8 Aroclor 1260
8.043	27207	17116	0.629	0.06	
8.137	25599	23222	0.907	0.06	
8.362	133728	114189	0.854	0.33	
8.443	76207	54307	0.713	0.19	
8.659	2634590	2258903	0.857	7.19	$ 12 Decachlorobiphenyl
9.002	164130	97070	0.591	0.41	
9.258	29519	26357	0.893	0.07	
9.527	210217	121885	0.580	0.53	
	39440004	33265051		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318119.D
Lab Smp Id: 40158028012 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:43
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028012 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 19
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	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.851	1.853	-0.002	21929	0.02214	55	0.00- 20.00	100.00(M)	BA
2.475	2.471	0.004	196820	0.37334	930	0.00- 20.00	897.53	BA
2.754	2.758	-0.004	23063	0.01663	42	0.00- 20.00	105.17	BA
2.861	2.860	0.001	29151	0.02642	66	0.00- 20.00	132.93	BA
2.924	2.923	0.001	92264	0.02760	69	0.00- 20.00	420.74	BA
Average of Peak Concentrations =					230			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2276725	0.01890	47		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1587421	0.66549	1700	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1199683	0.28245	710	0.00- 20.00	75.57	BA
4.898	4.898	0.000	732888	0.35978	900	0.00- 20.00	46.17	BA
4.965	4.963	0.002	1904253	0.34766	870	0.00- 20.00	119.96	BA
5.124	5.123	0.001	715036	0.18900	470	0.00- 20.00	45.04	BA
		Average of Peak Concentrations =			920			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1222258	0.21673	540	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	791825	0.16978	420	0.00- 20.00	64.78	BA
5.596	5.596	0.000	1505948	0.17589	440	0.00- 20.00	123.21	BA
6.113	6.113	0.000	725237	0.13651	340	0.00- 20.00	59.34	BA
6.388	6.387	0.001	1490544	0.20360	510	0.00- 20.00	121.95	BA
		Average of Peak Concentrations =			450			
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	340632	0.02894	72	0.00- 20.00	22.85	BA
7.338	7.338	0.000	201425	0.03561	89	0.00- 20.00	13.51	BA
7.530	7.529	0.001	239433	0.07003	180	0.00- 20.00	16.06	BA
7.985	7.987	-0.002	131277	0.04145	100	0.00- 20.00	8.81	BA
		Average of Peak Concentrations =			110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	2634589	0.01978	49			

QC Flag Legend

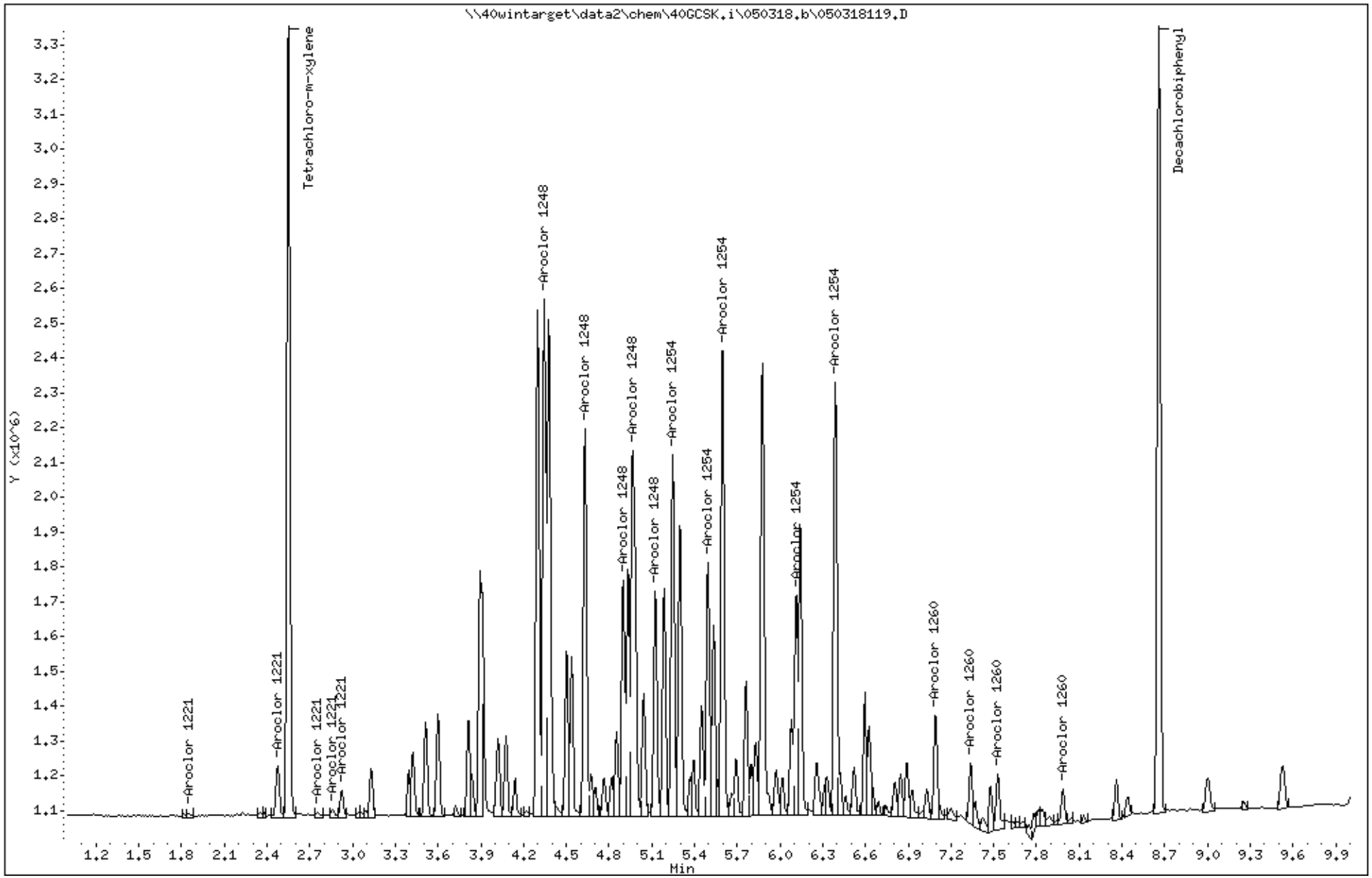
M - Compound response manually integrated.

Review Codes Legend

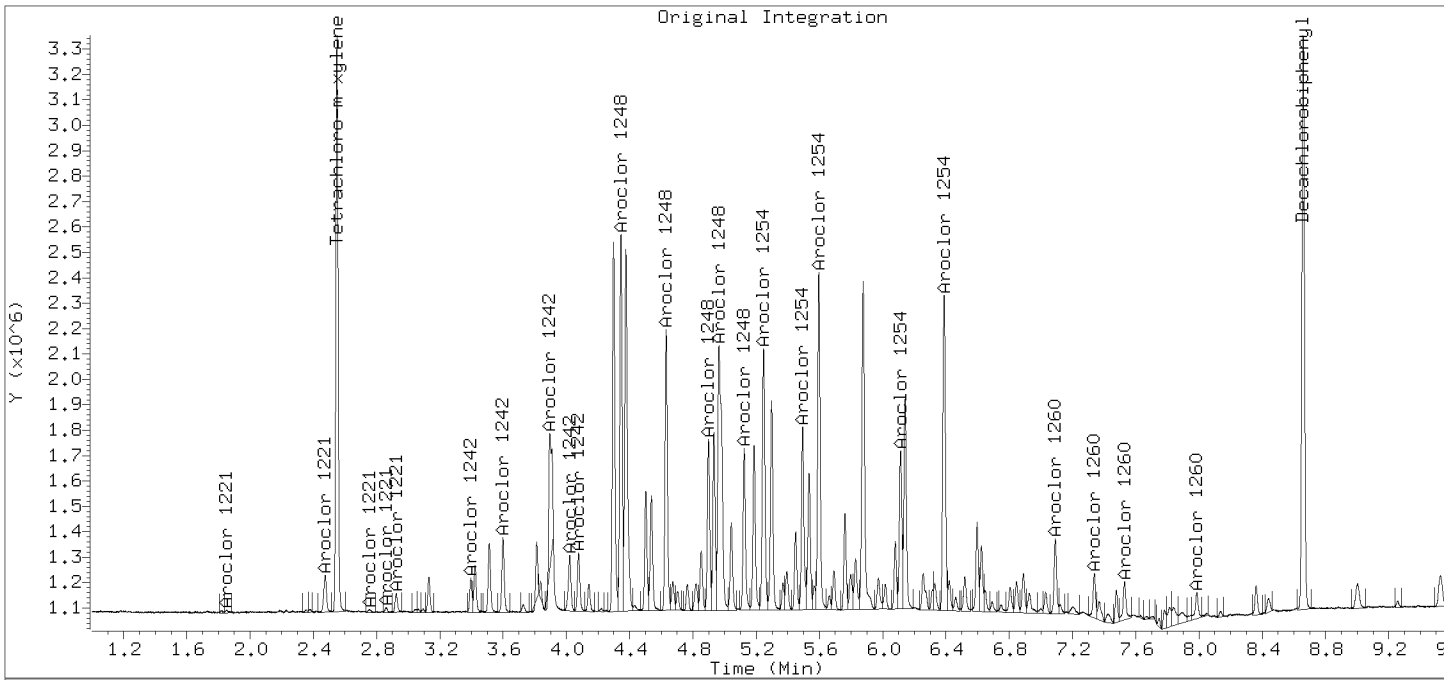
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

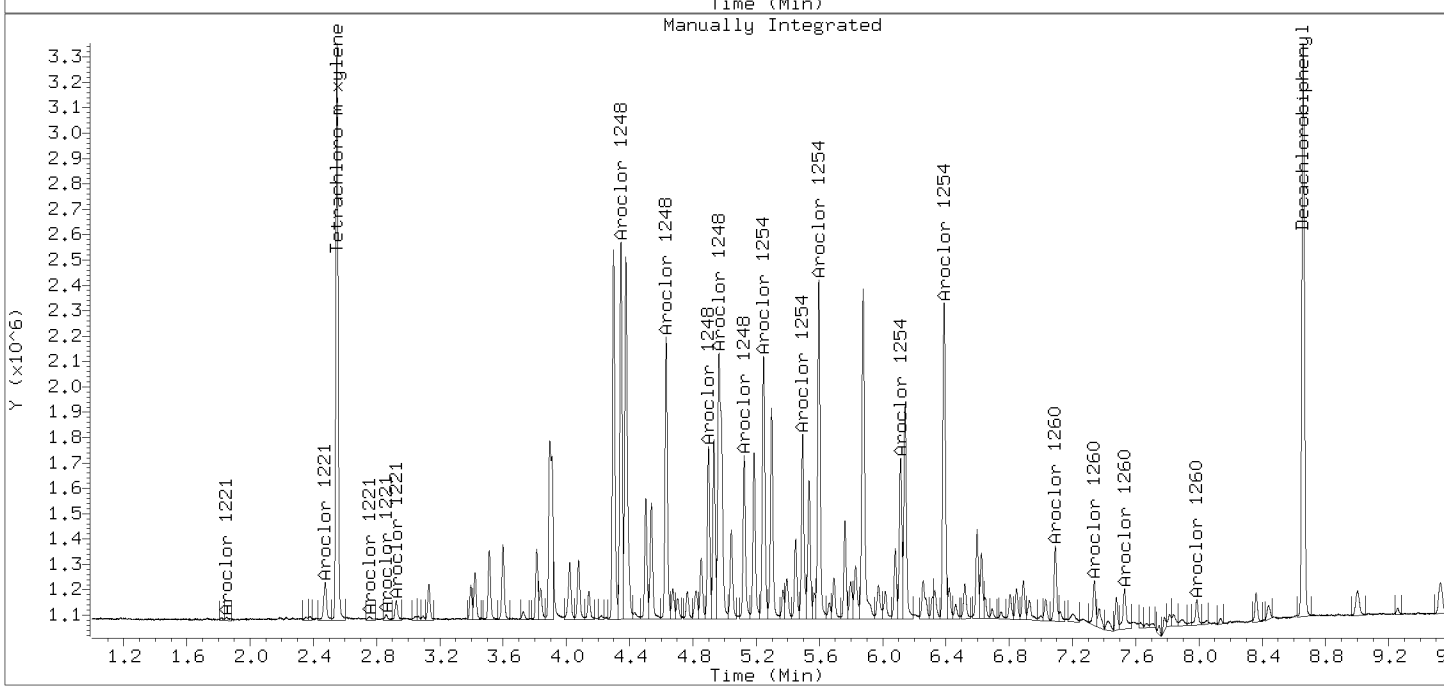
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318119.D
Date : 04-MAY-2018 01:43
Client ID: SW4-170830-01-PKSD-
Sample Info: 40158028012 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318119.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 01:43 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	131588	0	
Aroclor 1016	131588	0	
Aroclor 1016	131588	0	
Aroclor 1016	131588	0	
Aroclor 1016	131588	0	
Aroclor 1221	13765	21929	BA
Aroclor 1221	13765	21929	BA
Aroclor 1221	13765	21929	BA
Aroclor 1221	13765	21929	BA
Aroclor 1221	13765	21929	BA
Aroclor 1232	82570	0	
Aroclor 1232	82570	0	
Aroclor 1232	82570	0	
Aroclor 1232	82570	0	

Aroclor 1232	82570	0	
Aroclor 1242	131588	0	
Aroclor 1242	131588	0	
Aroclor 1242	131588	0	
Aroclor 1242	131588	0	
Aroclor 1242	131588	0	
Aroclor 1248	1574821	1587421	BA
Aroclor 1248	1574821	1587421	BA
Aroclor 1248	1574821	1587421	BA
Aroclor 1248	1574821	1587421	BA
Aroclor 1248	1574821	1587421	BA
Aroclor 1254	1197821	1222258	BA
Aroclor 1254	1197821	1222258	BA
Aroclor 1254	1197821	1222258	BA
Aroclor 1254	1197821	1222258	BA
Aroclor 1254	1197821	1222258	BA
Aroclor 1260	1477774	0	BA
Aroclor 1260	1477774	0	BA
Aroclor 1260	1477774	0	BA
Aroclor 1260	1477774	0	BA
Aroclor 1260	1477774	0	BA
Tetrachloro-m-xylene	2253062	2276725	BA
Decachlorobiphenyl	2634589	2634589	

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SAMPLE NO.

SW4-170830-01-PKSD-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028013
Date Analyzed: 05/04/2018 01:59
Lab File ID: 050318.B\050318121.D
Initial wt/vol: 9.9938 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	276	
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	1080	
11097-69-1	PCB-1254 (Aroclor 1254)	533	
11096-82-5	PCB-1260 (Aroclor 1260)	123	J
1336-36-3	PCB, Total	2010	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318121.D
Lab Smp Id: 40158028013 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:59
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028013 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 21
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	9.994	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.818	13557	12757	0.941	0.03			
2.229	9901	11055	1.117	0.02			
2.381	15376	14736	0.958	0.03			
2.476	196735	154844	0.787	0.44		1 Aroclor 1221	BA
2.549	2337609	2330607	0.997	5.31	$	2 Tetrachloro-m-xylene	BA
2.754	17965	14436	0.804	0.04		1 Aroclor 1221	BA
2.861	29107	23872	0.820	0.06		1 Aroclor 1221	BA
2.923	95949	81520	0.850	0.21		1 Aroclor 1221	BA
3.090	16372	16156	0.987	0.03			
3.131	172400	164999	0.957	0.39			
3.396	152978	150411	0.983	0.34			
3.421	226891	205971	0.908	0.51			
3.512	306509	283527	0.925	0.69			
3.599	349540	321380	0.919	0.79			
3.728	49113	37324	0.760	0.11			
3.813	313707	305843	0.975	0.71			
3.838	152477	134002	0.879	0.34			
3.895	735567	780712	1.061	1.67			
3.907	739780	722137	0.976	1.68			
4.020	302910	239527	0.791	0.68			
4.077	304501	264382	0.868	0.69			
4.143	134954	118569	0.879	0.30			
4.219	18118	14023	0.774	0.04			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1826381	1674370	0.917	4.15	
4.345	1875766	1757700	0.937	4.26	6 Aroclor 1248
4.376	2050126	1635132	0.798	4.66	
4.502	522426	495930	0.949	1.18	
4.538	605703	526764	0.870	1.37	
4.631	1393701	1293780	0.928	3.16	6 Aroclor 1248
4.673	155310	136478	0.879	0.35	
4.703	100806	76183	0.756	0.22	
4.765	146614	130279	0.889	0.33	
4.820	175759	126753	0.721	0.39	
4.852	289173	265399	0.918	0.65	
4.898	856173	809116	0.945	1.94	6 Aroclor 1248
4.933	862410	807823	0.937	1.96	
4.965	2201689	1273062	0.578	5.00	6 Aroclor 1248
5.043	486314	416001	0.855	1.10	
5.124	849568	748249	0.881	1.93	6 Aroclor 1248
5.187	823313	733736	0.891	1.87	
5.247	1444509	1251162	0.866	3.28	7 Aroclor 1254
5.298	1152776	990072	0.859	2.62	
5.370	136505	132731	0.972	0.31	
5.394	220800	162877	0.738	0.50	
5.449	421358	390166	0.926	0.95	
5.493	948797	862589	0.909	2.15	7 Aroclor 1254
5.535	759395	646279	0.851	1.72	
5.568	96822	105501	1.090	0.22	
5.596	1768550	1563352	0.884	4.02	7 Aroclor 1254
5.661	84338	72485	0.859	0.19	
5.691	225532	189598	0.841	0.51	
5.761	475594	438724	0.922	1.08	
5.798	175804	145013	0.825	0.39	
5.829	333308	240236	0.721	0.75	
5.876	2009873	1504048	0.748	4.56	
5.972	211862	143444	0.677	0.48	
6.018	142388	116089	0.815	0.32	
6.080	337461	304649	0.903	0.76	
6.113	840552	751198	0.894	1.91	7 Aroclor 1254
6.142	1182926	1019961	0.862	2.68	
6.256	273020	181446	0.665	0.62	
6.315	88648	108090	1.219	0.20	
6.330	160741	122183	0.760	0.36	
6.388	1759825	1444539	0.821	4.00	7 Aroclor 1254
6.421	161927	141841	0.876	0.36	
6.462	85842	66812	0.778	0.19	
6.519	180814	139859	0.773	0.41	
6.597	462287	435630	0.942	1.05	
6.625	415633	298378	0.718	0.94	
6.692	59160	48278	0.816	0.13	
6.748	36610	28286	0.773	0.08	
6.805	117365	100759	0.859	0.26	
6.848	146146	126608	0.866	0.33	
6.889	208736	182348	0.874	0.47	
6.928	106079	84291	0.795	0.24	
7.000	28569	22788	0.798	0.06	
7.031	111336	91815	0.825	0.25	
7.091	409839	370198	0.903	0.93	8 Aroclor 1260
7.121	61429	44726	0.728	0.13	
7.201	45637	24020	0.526	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.339	237286	213120	0.898	0.53	8 Aroclor 1260
7.371	118966	81876	0.688	0.27	
7.426	57606	31668	0.550	0.13	
7.477	164774	150833	0.915	0.37	
7.530	246939	191896	0.777	0.56	8 Aroclor 1260
7.671	21342	16243	0.761	0.04	
7.749	23829	26154	1.098	0.05	
7.781	70353	62122	0.883	0.15	
7.817	68864	51280	0.745	0.15	
7.890	44910	24625	0.548	0.10	
7.986	151895	125741	0.828	0.34	8 Aroclor 1260
8.049	22721	15461	0.680	0.05	
8.139	27573	24333	0.882	0.06	
8.362	148703	133010	0.894	0.33	
8.439	12712	11035	0.868	0.02	
8.658	2675544	2289975	0.856	6.51	$ 12 Decachlorobiphenyl
9.002	35781	23788	0.665	0.08	
9.255	32237	29575	0.917	0.07	
9.526	23686	19609	0.828	0.05	
	43987762	37924958		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318121.D
Lab Smp Id: 40158028013 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 01:59
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028013 x5,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 21
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	9.994	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
2.475	2.471	0.004	196734	0.37318	930	0.00- 20.00	0.00	BA
2.753	2.758	-0.005	17965	0.01295	32	0.00- 20.00	0.00	BA
2.860	2.860	0.000	29106	0.02638	66	0.00- 20.00	0.00	BA
2.922	2.923	-0.001	95949	0.02870	72	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					280			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2337608	0.01941	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			
4.345	4.343	0.002	1875766	0.78637	2000	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1393701	0.32813	820	0.00- 20.00	74.30	BA
4.898	4.898	0.000	856172	0.42030	1000	0.00- 20.00	45.64	BA
4.964	4.963	0.001	2201689	0.40196	1000	0.00- 20.00	117.38	BA
5.123	5.123	0.000	849567	0.22456	560	0.00- 20.00	45.29	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	1444509	0.25614	640	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	948796	0.20344	510	0.00- 20.00	65.68	BA
5.596	5.596	0.000	1768550	0.20656	520	0.00- 20.00	122.43	BA
6.112	6.113	-0.001	840551	0.15821	400	0.00- 20.00	58.19	BA
6.388	6.387	0.001	1759824	0.24038	600	0.00- 20.00	121.83	BA
Average of Peak Concentrations =					530			
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	409839	0.03482	87	0.00- 20.00	23.29	BA
7.339	7.338	0.001	237286	0.04195	100	0.00- 20.00	13.48	BA
7.530	7.529	0.001	246938	0.07223	180	0.00- 20.00	14.03	BA
7.986	7.987	-0.001	151895	0.04796	120	0.00- 20.00	8.63	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	2675543	0.02009	50			

QC Flag Legend

M - Compound response manually integrated.

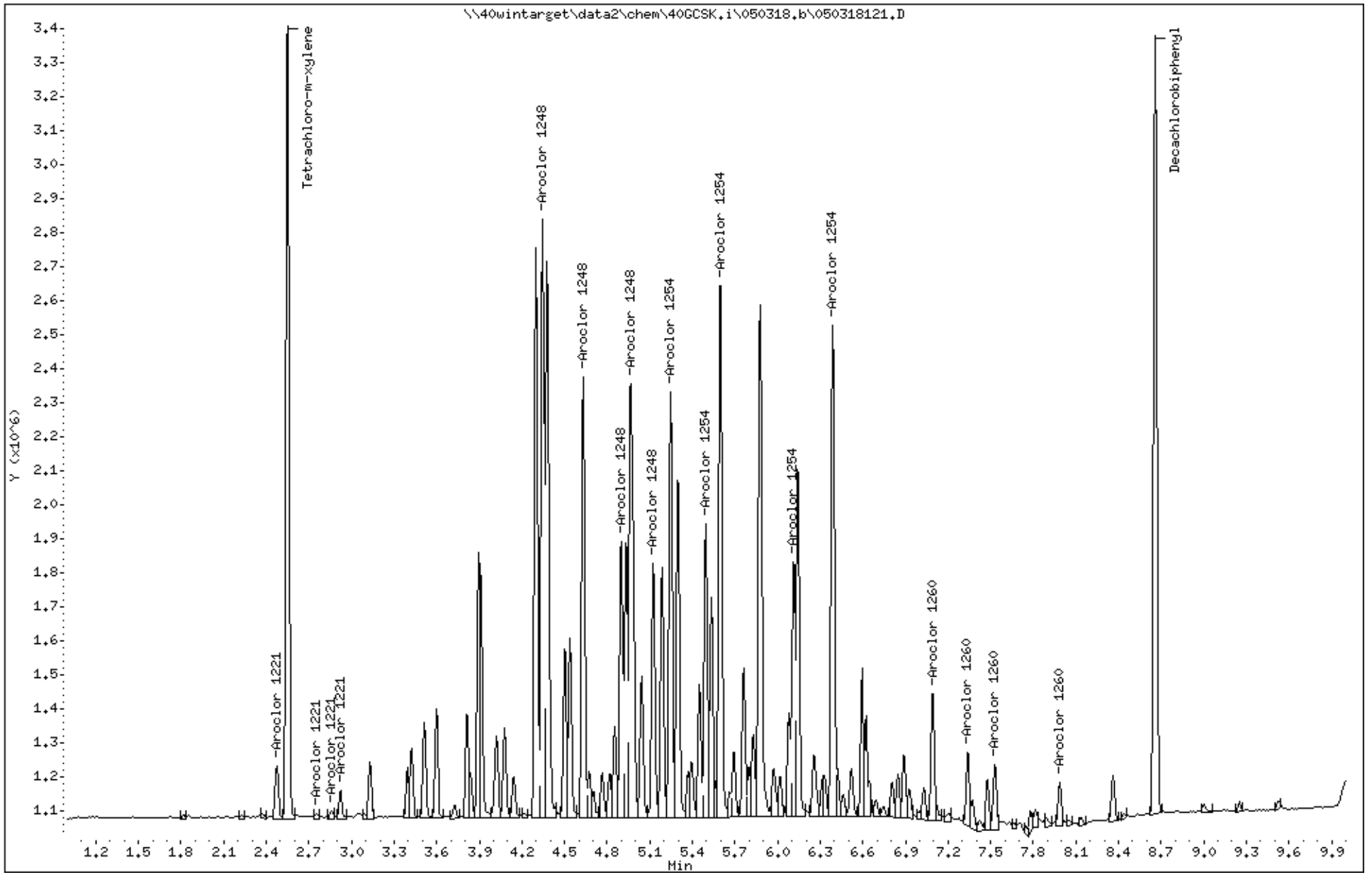
Review Codes Legend

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

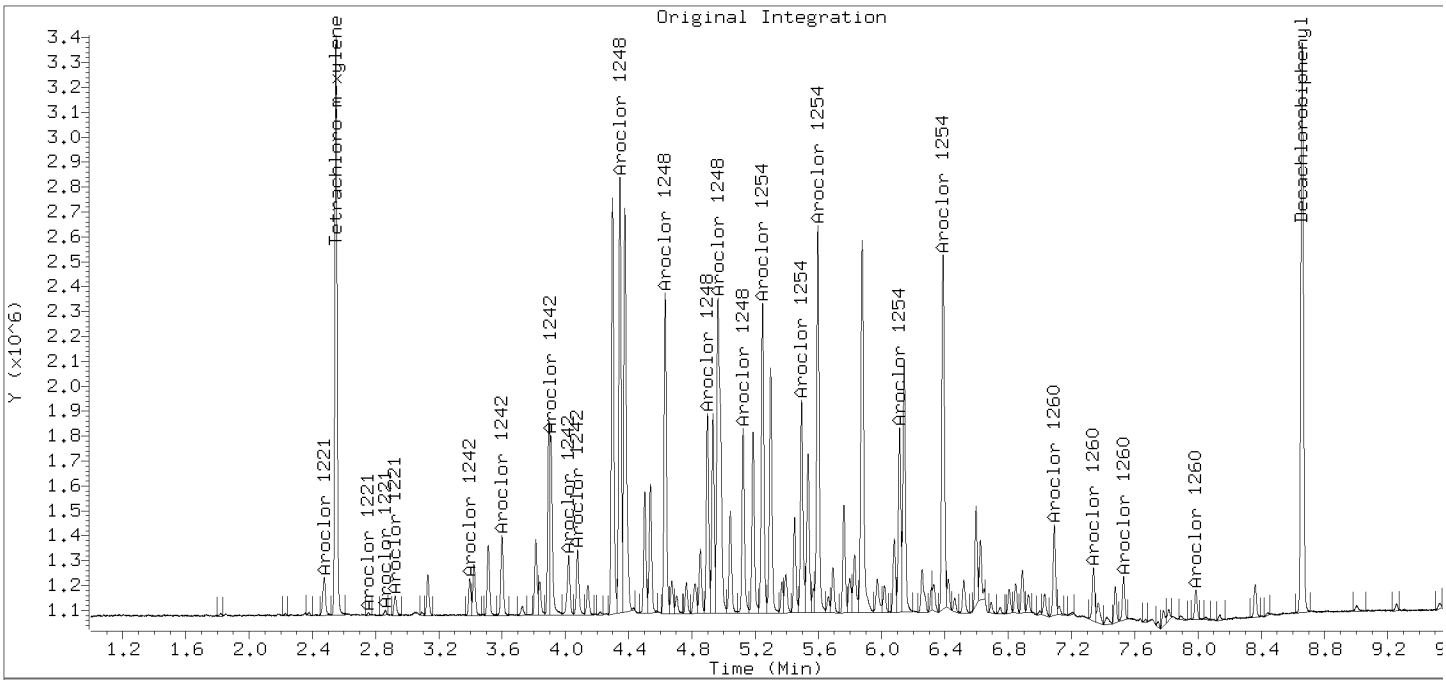
:

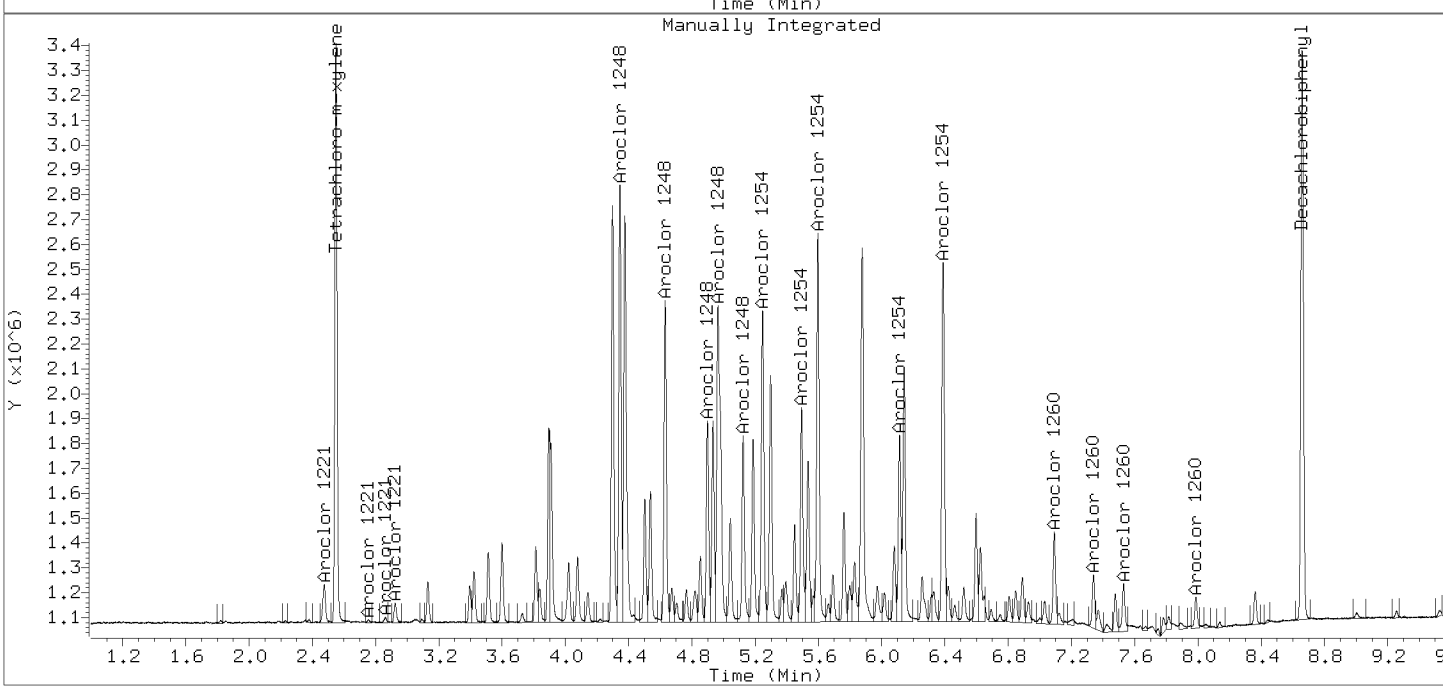
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318121.D
Date : 04-MAY-2018 01:59
Client ID: SW4-170830-01-PKSD-
Sample Info: 40158028013 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318121.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 01:59 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	152977	0	
Aroclor 1016	152977	0	
Aroclor 1016	152977	0	
Aroclor 1016	152977	0	
Aroclor 1016	152977	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	88579	0	
Aroclor 1232	88579	0	
Aroclor 1232	88579	0	
Aroclor 1232	88579	0	

Aroclor 1232	88579	0	
Aroclor 1242	152977	0	
Aroclor 1242	152977	0	
Aroclor 1242	152977	0	
Aroclor 1242	152977	0	
Aroclor 1242	152977	0	
Aroclor 1248	1851117	1875766	BA
Aroclor 1248	1851117	1875766	BA
Aroclor 1248	1851117	1875766	BA
Aroclor 1248	1851117	1875766	BA
Aroclor 1248	1851117	1875766	BA
Aroclor 1254	1420421	1444509	BA
Aroclor 1254	1420421	1444509	BA
Aroclor 1254	1420421	1444509	BA
Aroclor 1254	1420421	1444509	BA
Aroclor 1254	1420421	1444509	BA
Aroclor 1260	1699694	0	BA
Aroclor 1260	1699694	0	BA
Aroclor 1260	1699694	0	BA
Aroclor 1260	1699694	0	BA
Aroclor 1260	1699694	0	BA
Tetrachloro-m-xylene	2319360	2337608	BA
Decachlorobiphenyl	2675543	2675543	

==========

SAMPLE NO.

SW4-170830-01-PKSD-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028014
Date Analyzed: 05/04/2018 02:47
Lab File ID: 050318.B\050318127.D
Initial wt/vol: 9.9835 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	945	
11097-69-1	PCB-1254 (Aroclor 1254)	409	
11096-82-5	PCB-1260 (Aroclor 1260)	99.9	J
1336-36-3	PCB, Total	1450	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318127.D
Lab Smp Id: 40158028014 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028014 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 27
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	9.983	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.821	55522	64311	1.158	0.11		
1.850	16588	13787	0.831	0.03		
2.474	244329	198152	0.811	0.52		
2.549	2935387	3000686	1.022	6.27	$ 2 Tetrachloro-m-xylene	
2.861	29018	27063	0.933	0.06		
2.923	101232	96028	0.949	0.21		
3.094	13762	14982	1.089	0.02		
3.130	206176	203339	0.986	0.44		
3.395	182949	178134	0.974	0.39		
3.422	271254	258809	0.954	0.57		
3.513	352795	332080	0.941	0.75		
3.600	442842	413851	0.935	0.94		
3.727	52711	46510	0.882	0.11		
3.813	379429	374173	0.986	0.81		
3.838	182841	162992	0.891	0.39		
3.896	1604327	962216	0.600	3.42		
4.022	347350	270441	0.779	0.74		
4.077	366310	311014	0.849	0.78		
4.143	164923	149777	0.908	0.35		
4.219	23690	18730	0.791	0.05		
4.298	2007595	1817596	0.905	4.28		
4.345	2050404	1922793	0.938	4.37	6 Aroclor 1248	BA
4.376	2265820	1821586	0.804	4.83		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.431	58404	35337	0.605	0.12	
4.502	603259	568081	0.942	1.28	
4.538	675634	589266	0.872	1.44	
4.600	55951	37987	0.679	0.11	
4.631	1559517	1425004	0.914	3.33	6 Aroclor 1248
4.673	177511	153057	0.862	0.37	
4.702	102875	92909	0.903	0.21	
4.735	27823	24211	0.870	0.05	
4.765	157733	137950	0.875	0.33	
4.820	198256	141981	0.716	0.42	
4.854	323780	291455	0.900	0.69	
4.899	944291	898864	0.952	2.01	6 Aroclor 1248
4.934	979005	918993	0.939	2.09	
4.965	2290530	1347673	0.588	4.89	6 Aroclor 1248
5.043	504676	429390	0.851	1.07	
5.125	947969	823838	0.869	2.02	6 Aroclor 1248
5.186	858635	764111	0.890	1.83	
5.247	1375341	1178980	0.857	2.93	7 Aroclor 1254
5.298	1139396	970377	0.852	2.43	
5.370	148394	137288	0.925	0.31	
5.394	220803	173086	0.784	0.47	
5.449	411901	368571	0.895	0.87	
5.494	939272	834060	0.888	2.00	7 Aroclor 1254
5.534	755744	648388	0.858	1.61	
5.567	113030	114121	1.010	0.24	
5.596	1752585	1527925	0.872	3.74	7 Aroclor 1254
5.663	80050	72606	0.907	0.17	
5.691	240400	200429	0.834	0.51	
5.762	431964	399855	0.926	0.92	
5.798	181960	148528	0.816	0.38	
5.828	341901	239833	0.701	0.73	
5.876	1918510	1443651	0.752	4.09	
5.974	212475	145014	0.683	0.45	
6.017	154686	119817	0.775	0.33	
6.078	320278	280316	0.875	0.68	
6.113	805947	708989	0.880	1.72	7 Aroclor 1254
6.141	1113932	925708	0.831	2.37	
6.255	262098	174912	0.667	0.55	
6.315	98150	99766	1.016	0.20	
6.328	138913	116734	0.840	0.29	
6.389	1603507	1317748	0.822	3.42	7 Aroclor 1254
6.419	148446	136445	0.919	0.31	
6.461	86421	66387	0.768	0.18	
6.518	166485	131597	0.790	0.35	
6.597	373674	333440	0.892	0.79	
6.624	393532	293360	0.745	0.84	
6.690	55439	44694	0.806	0.11	
6.747	31485	26619	0.845	0.06	
6.806	118611	97161	0.819	0.25	
6.846	138795	119458	0.861	0.29	
6.889	200189	172647	0.862	0.42	
6.927	98001	78553	0.802	0.20	
7.000	22244	18221	0.819	0.04	
7.029	108756	88376	0.813	0.23	
7.091	370441	330207	0.891	0.79	8 Aroclor 1260
7.124	44975	37141	0.826	0.09	
7.160	12190	12402	1.017	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.194	14409	16785	1.165	0.03	
7.207	31542	20427	0.648	0.06	
7.338	233910	203700	0.871	0.49	8 Aroclor 1260
7.369	124159	82527	0.665	0.26	
7.422	71554	36321	0.508	0.15	
7.477	150624	142049	0.943	0.32	
7.529	262689	181944	0.693	0.56	8 Aroclor 1260
7.668	31459	21743	0.691	0.06	
7.748	27243	30164	1.107	0.05	
7.783	72454	55086	0.760	0.15	
7.815	70024	52682	0.752	0.14	
7.987	157599	133794	0.849	0.33	8 Aroclor 1260
8.139	31951	27489	0.860	0.06	
8.361	153716	138774	0.903	0.32	
8.449	34490	17162	0.498	0.07	
8.659	3308668	2876306	0.869	7.57	$ 12 Decachlorobiphenyl
9.004	33062	29262	0.885	0.07	
9.257	27098	26864	0.991	0.05	
9.530	85230	54019	0.634	0.18	
	46815904	39819665		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318127.D
Lab Smp Id: 40158028014 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028014 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 27
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	9.983	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.549	2.549	0.000	2935387	0.02437		49		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	2050404	0.85958	1700	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1559517	0.36717	740	0.00- 20.00	76.06	BA
4.898	4.898	0.000	944291	0.46356	930	0.00- 20.00	46.05	BA
4.964	4.963	0.001	2290529	0.41818	840	0.00- 20.00	111.71	BA
5.124	5.123	0.001	947969	0.25057	500	0.00- 20.00	46.23	BA
Average of Peak Concentrations =					940			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1375341	0.24387	490	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	939271	0.20140	400	0.00- 20.00	68.29	BA
5.596	5.596	0.000	1752585	0.20469	410	0.00- 20.00	127.43	BA
6.113	6.113	0.000	805947	0.15170	300	0.00- 20.00	58.60	BA
6.388	6.387	0.001	1603506	0.21903	440	0.00- 20.00	116.59	BA
Average of Peak Concentrations =					410			
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	370440	0.03148	63	0.00- 20.00	23.10	BA
7.337	7.338	-0.001	233910	0.04135	83	0.00- 20.00	14.59	BA
7.528	7.529	-0.001	262688	0.07684	150	0.00- 20.00	16.38	BA
7.986	7.987	-0.001	157599	0.04976	100	0.00- 20.00	9.83	BA
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	3308667	0.02484	50			

QC Flag Legend

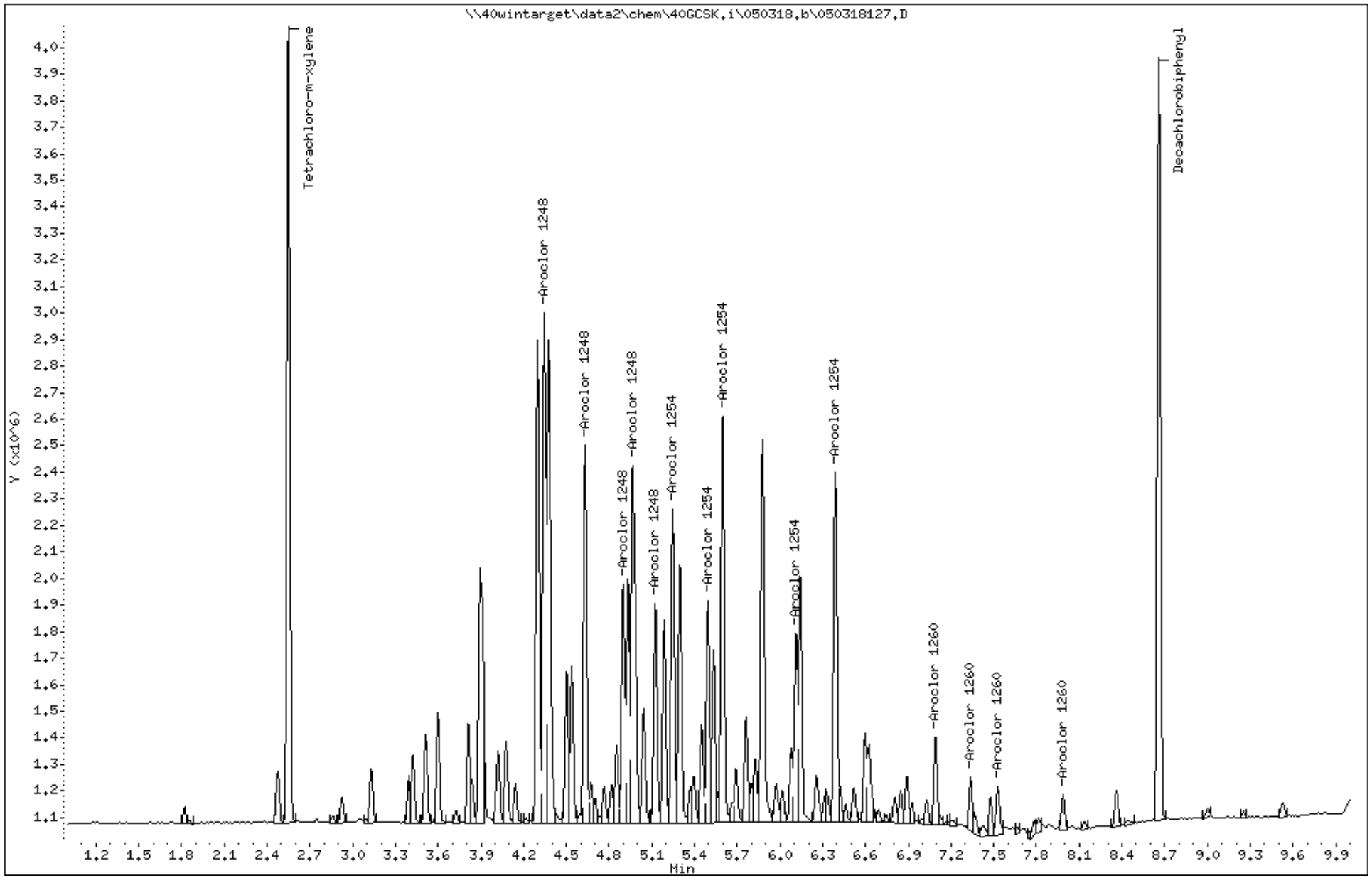
M - Compound response manually integrated.

Review Codes Legend

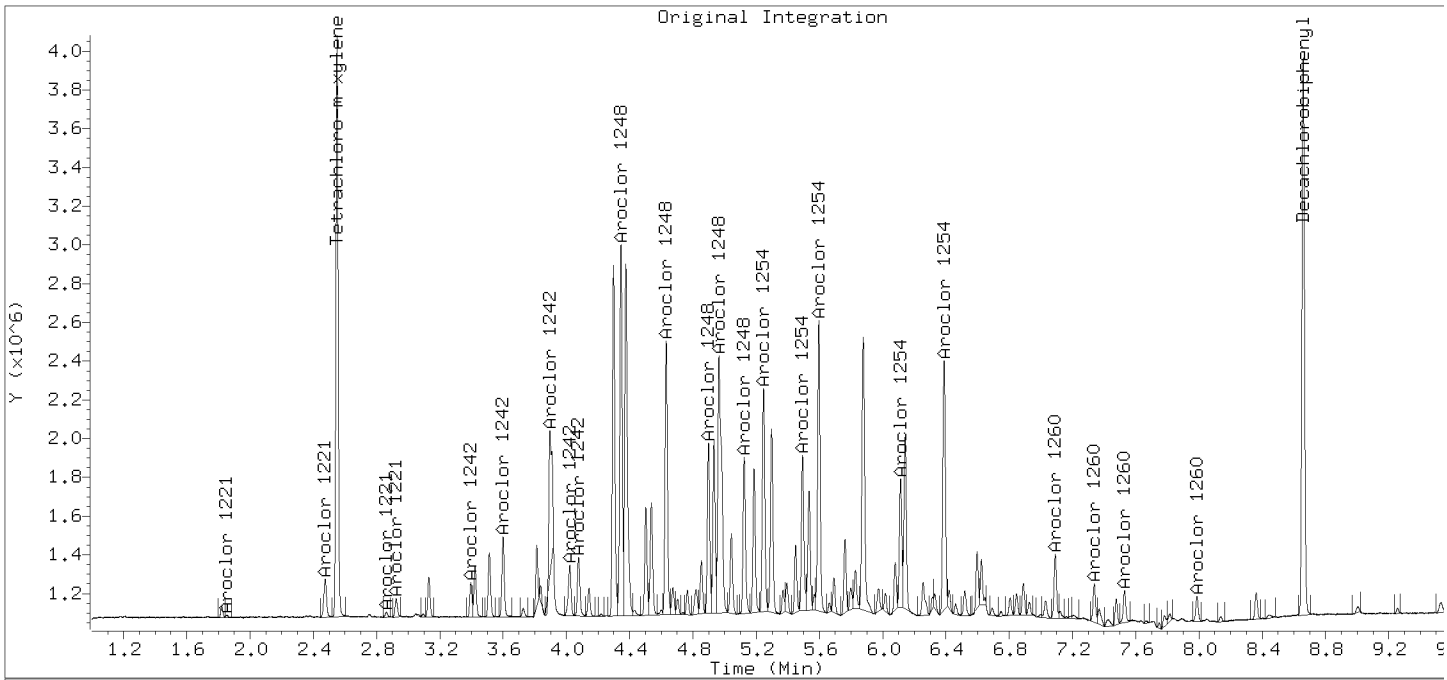
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

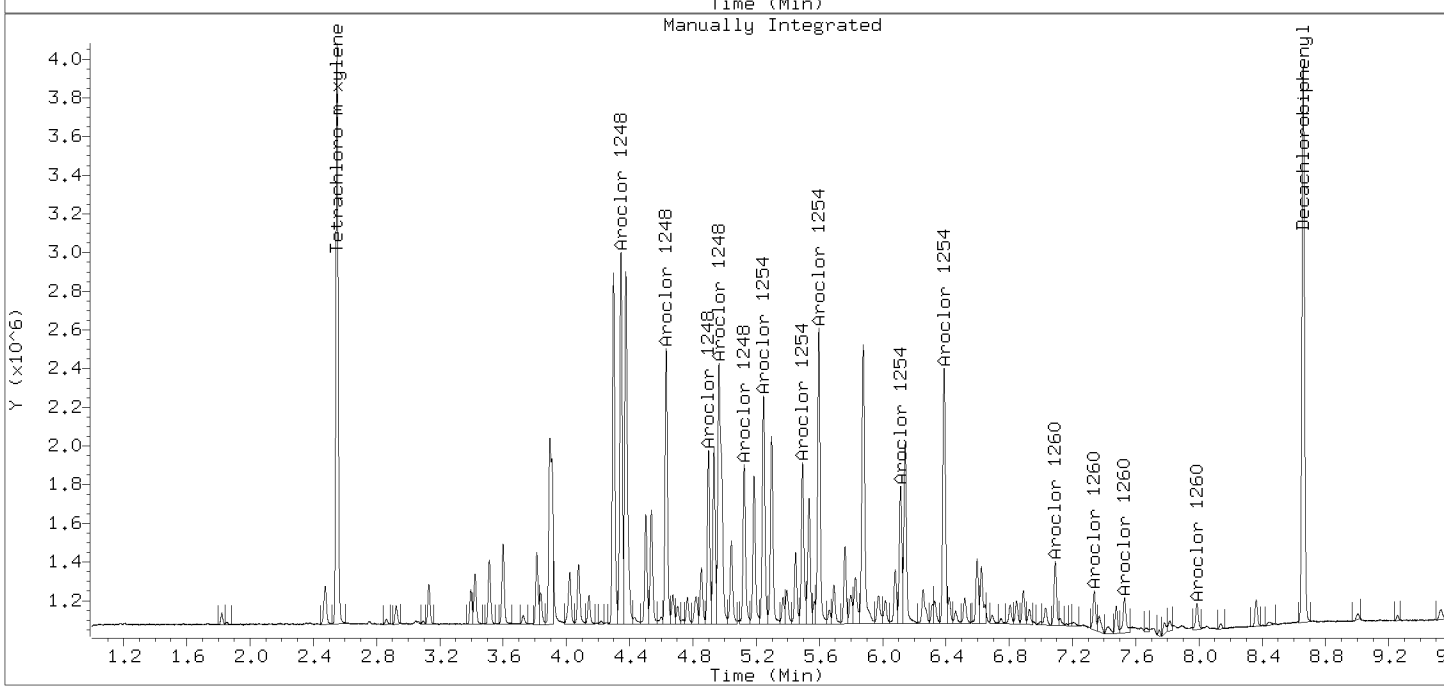
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318127.D
Date : 04-MAY-2018 02:47
Client ID: SW4-170830-01-PKSD-
Sample Info: 40158028014 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318127.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 02:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	182949	0	
Aroclor 1016	182949	0	
Aroclor 1016	182949	0	
Aroclor 1016	182949	0	
Aroclor 1016	182949	0	
Aroclor 1221	16588	0	
Aroclor 1221	16588	0	
Aroclor 1221	16588	0	
Aroclor 1221	16588	0	
Aroclor 1221	16588	0	
Aroclor 1232	101231	0	
Aroclor 1232	101231	0	
Aroclor 1232	101231	0	
Aroclor 1232	101231	0	

Aroclor 1232	101231	0	
Aroclor 1242	182949	0	
Aroclor 1242	182949	0	
Aroclor 1242	182949	0	
Aroclor 1242	182949	0	
Aroclor 1242	182949	0	
Aroclor 1248	2032055	2050404	BA
Aroclor 1248	2032055	2050404	BA
Aroclor 1248	2032055	2050404	BA
Aroclor 1248	2032055	2050404	BA
Aroclor 1248	2032055	2050404	BA
Aroclor 1254	1295265	1375341	BA
Aroclor 1254	1295265	1375341	BA
Aroclor 1254	1295265	1375341	BA
Aroclor 1254	1295265	1375341	BA
Aroclor 1254	1295265	1375341	BA
Aroclor 1260	1508483	0	BA
Aroclor 1260	1508483	0	BA
Aroclor 1260	1508483	0	BA
Aroclor 1260	1508483	0	BA
Aroclor 1260	1508483	0	BA
Tetrachloro-m-xylene	2935387	2935387	
Decachlorobiphenyl	3308667	3308667	

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SAMPLE NO.

SW4-170830-01-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158028015
Date Analyzed: 05/04/2018 03:03
Lab File ID: 050318.B\050318129.D
Initial wt/vol: 6.0605 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	223	J
11141-16-5	PCB-1232 (Aroclor 1232)	<56.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	989	
11097-69-1	PCB-1254 (Aroclor 1254)	459	
11096-82-5	PCB-1260 (Aroclor 1260)	103	J
1336-36-3	PCB, Total	1770	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318129.D
Lab Smp Id: 40158028015 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028015 x3,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 29
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	6.061	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.079	9876	6628	0.671	0.02		
1.203	12477	8558	0.686	0.02		
1.363	9884	9599	0.971	0.02		
1.729	22824	18996	0.832	0.05		
1.819	11769	11006	0.935	0.02		
1.848	21332	18134	0.850	0.04	1 Aroclor 1221	BA
2.183	11567	9887	0.855	0.02		
2.229	13355	13118	0.982	0.03		
2.355	13729	14599	1.063	0.03		
2.378	17590	18369	1.044	0.04		
2.475	191172	149137	0.780	0.44	1 Aroclor 1221	BA
2.549	3651912	3713720	1.017	8.44	$ 2 Tetrachloro-m-xylene	BA
2.754	17021	12515	0.735	0.03	1 Aroclor 1221	BA
2.859	29934	23322	0.779	0.06	1 Aroclor 1221	BA
2.924	93118	82172	0.882	0.21	1 Aroclor 1221	BA
3.092	15292	15316	1.002	0.03		
3.131	156981	149992	0.955	0.36		
3.395	150206	150916	1.005	0.34		
3.422	214991	206035	0.958	0.49		
3.512	308208	289718	0.940	0.71		
3.600	339548	316653	0.933	0.78		
3.726	50117	41365	0.825	0.11		
3.813	298349	287766	0.965	0.68		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.837	147686	128801	0.872	0.34	
3.895	715039	762560	1.066	1.65	
3.908	705991	689541	0.977	1.63	
4.020	319019	251822	0.789	0.73	
4.077	298045	252432	0.847	0.68	
4.143	136492	124991	0.916	0.31	
4.222	18400	14960	0.813	0.04	
4.298	1706748	1586505	0.930	3.94	
4.345	1719328	1590434	0.925	3.97	6 Aroclor 1248
4.376	1913062	1531422	0.801	4.42	
4.434	53051	30300	0.571	0.12	
4.502	471461	433578	0.920	1.08	
4.537	569540	492538	0.865	1.31	
4.631	1317870	1198508	0.909	3.04	6 Aroclor 1248
4.673	155410	133710	0.860	0.35	
4.704	95565	70347	0.736	0.22	
4.765	137535	118051	0.858	0.31	
4.819	170676	122575	0.718	0.39	
4.853	287119	256387	0.893	0.66	
4.898	791884	736575	0.930	1.83	6 Aroclor 1248
4.933	803531	760946	0.947	1.85	
4.965	2005367	1129389	0.563	4.63	6 Aroclor 1248
5.043	440251	379681	0.862	1.01	
5.124	802344	697806	0.870	1.85	6 Aroclor 1248
5.187	766316	673923	0.879	1.77	
5.246	1241689	1082496	0.872	2.86	7 Aroclor 1254
5.298	1004170	882927	0.879	2.32	
5.370	136562	122287	0.895	0.31	
5.393	184453	146685	0.795	0.42	
5.449	367240	317314	0.864	0.84	
5.494	833671	740672	0.888	1.92	7 Aroclor 1254
5.534	653298	560358	0.858	1.50	
5.570	101976	107736	1.056	0.23	
5.596	1575477	1364670	0.866	3.64	7 Aroclor 1254
5.663	76482	64619	0.845	0.17	
5.691	197964	168493	0.851	0.45	
5.761	413624	391059	0.945	0.95	
5.798	179487	136738	0.762	0.41	
5.828	295712	222207	0.751	0.68	
5.876	1768750	1337621	0.756	4.08	
5.973	176946	135519	0.766	0.40	
6.018	156941	111421	0.710	0.36	
6.080	297551	270005	0.907	0.68	
6.113	748040	652746	0.873	1.72	7 Aroclor 1254
6.141	1001820	870702	0.869	2.31	
6.255	246530	158738	0.644	0.56	
6.314	82304	91985	1.118	0.19	
6.329	135831	106512	0.784	0.31	
6.388	1496349	1268974	0.848	3.45	7 Aroclor 1254
6.421	148258	125381	0.846	0.34	
6.462	75721	60299	0.796	0.17	
6.519	162103	132364	0.817	0.37	
6.596	381516	355172	0.931	0.88	
6.625	286774	254532	0.888	0.66	
6.647	94523	95219	1.007	0.21	
6.693	46932	42798	0.912	0.10	
6.749	25873	23667	0.915	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.806	111572	99220	0.889	0.25	
6.846	132371	117634	0.889	0.30	
6.889	187235	165257	0.883	0.43	
6.925	101970	74076	0.726	0.23	
7.002	21876	17965	0.821	0.05	
7.030	93241	79948	0.857	0.21	
7.090	343446	302372	0.880	0.79	8 Aroclor 1260
7.122	47164	36653	0.777	0.10	
7.200	30024	16998	0.566	0.06	
7.339	202247	179995	0.890	0.46	8 Aroclor 1260
7.369	105108	70041	0.666	0.24	
7.420	45091	28953	0.642	0.10	
7.477	169671	138383	0.816	0.39	
7.530	210160	158329	0.753	0.48	8 Aroclor 1260
7.635	18768	16354	0.871	0.04	
7.666	14176	12975	0.915	0.03	
7.698	19571	12150	0.621	0.04	
7.779	50939	46174	0.906	0.11	
7.815	76296	45819	0.601	0.17	
7.891	37832	18622	0.492	0.08	
7.987	125986	105179	0.835	0.29	8 Aroclor 1260
8.047	14512	10632	0.733	0.03	
8.137	27435	23127	0.843	0.06	
8.249	9702	7151	0.737	0.02	
8.363	137156	124084	0.905	0.31	
8.442	10560	9874	0.935	0.02	
8.658	4014674	3477056	0.866	9.84	$ 12 Decachlorobiphenyl
9.001	31378	19536	0.623	0.07	
9.256	27034	25232	0.933	0.06	
9.531	46789	29914	0.639	0.10	
	43267535	37606922		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318129.D
Lab Smp Id: 40158028015 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158028015 x3,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 29
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	6.061	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			
1.848	1.853	-0.005	21331	0.02154	53	0.00- 20.00	100.00(M)	BA
2.474	2.471	0.003	191171	0.36263	900	0.00- 20.00	896.21	BA
2.754	2.758	-0.004	17021	0.01227	30	0.00- 20.00	79.79	BA
2.858	2.860	-0.002	29933	0.02713	67	0.00- 20.00	140.33	BA
2.923	2.923	0.000	93117	0.02785	69	0.00- 20.00	436.53	BA
Average of Peak Concentrations =					220			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	3651911	0.03032	75		(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	1719328	0.72079	1800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1317869	0.31027	770	0.00- 20.00	76.65	BA
4.898	4.898	0.000	791883	0.38874	960	0.00- 20.00	46.06	BA
4.964	4.963	0.001	2005367	0.36612	910	0.00- 20.00	116.64	BA
5.123	5.123	0.000	802344	0.21208	520	0.00- 20.00	46.67	BA
Average of Peak Concentrations =					990			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1241688	0.22017	540	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	833670	0.17875	440	0.00- 20.00	67.14	BA
5.595	5.596	-0.001	1575477	0.18401	460	0.00- 20.00	126.88	BA
6.113	6.113	0.000	748040	0.14080	350	0.00- 20.00	60.24	BA
6.387	6.387	0.000	1496348	0.20439	500	0.00- 20.00	120.51	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	343446	0.02918	72	0.00- 20.00	22.95	BA
7.338	7.338	0.000	202246	0.03576	88	0.00- 20.00	13.52	BA
7.529	7.529	0.000	210160	0.06147	150	0.00- 20.00	14.04	BA
7.986	7.987	-0.001	125985	0.03978	98	0.00- 20.00	8.42	BA
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	4014673	0.03014	75			

QC Flag Legend

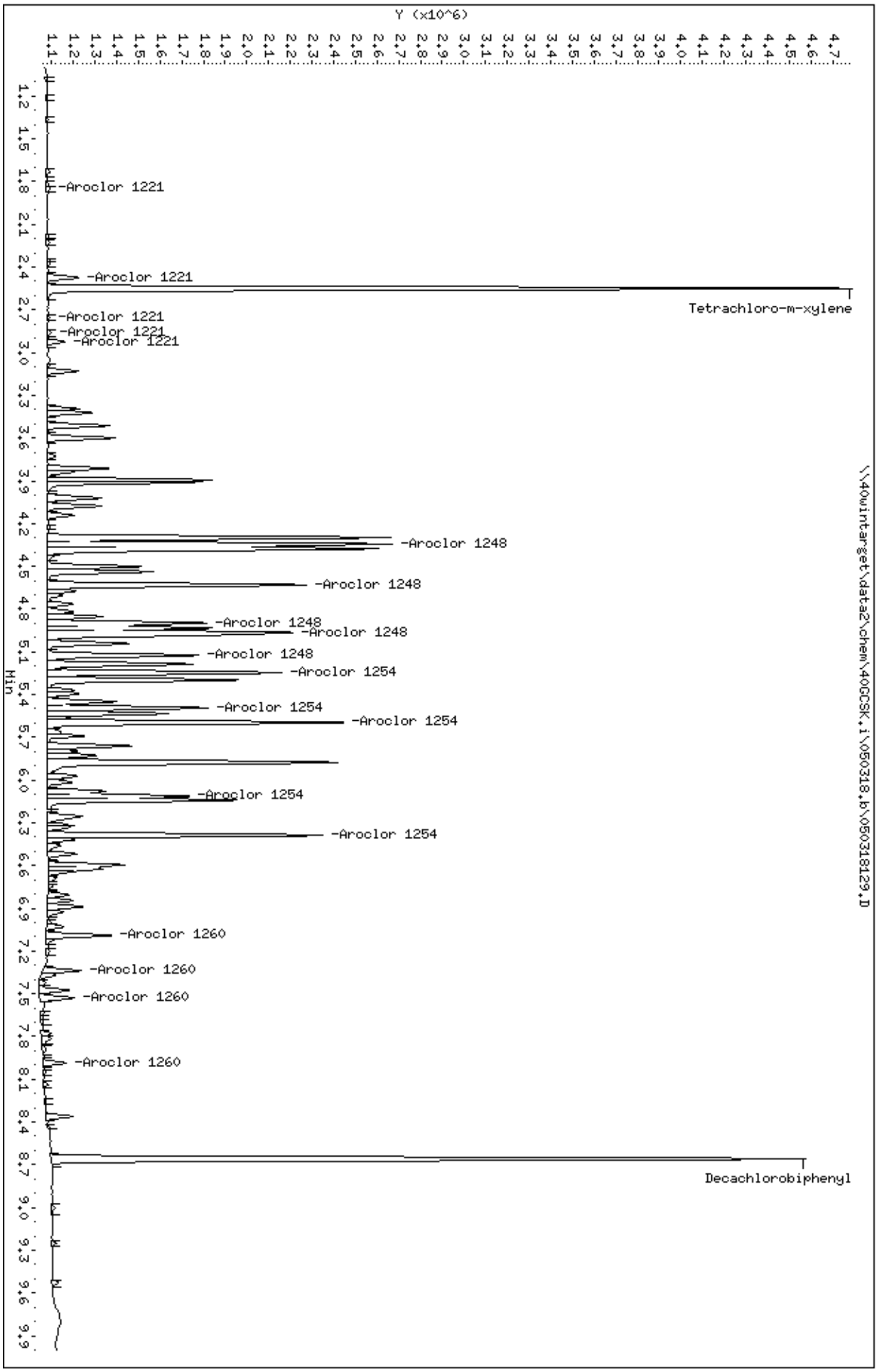
M - Compound response manually integrated.

Review Codes Legend

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

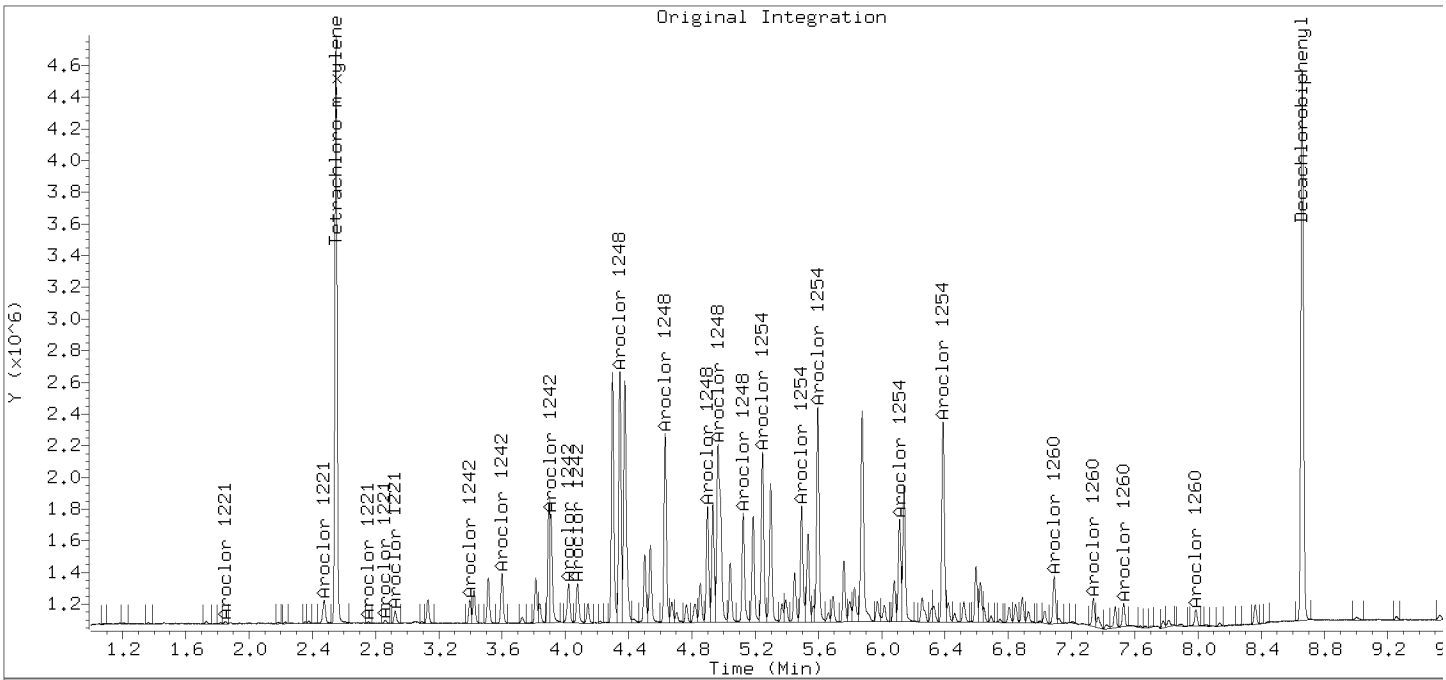
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318129.D
Date : 04-MAY-2018 03:03
Client ID: SW4-170830-01-PKSD-
Sample Info: 40158028015 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

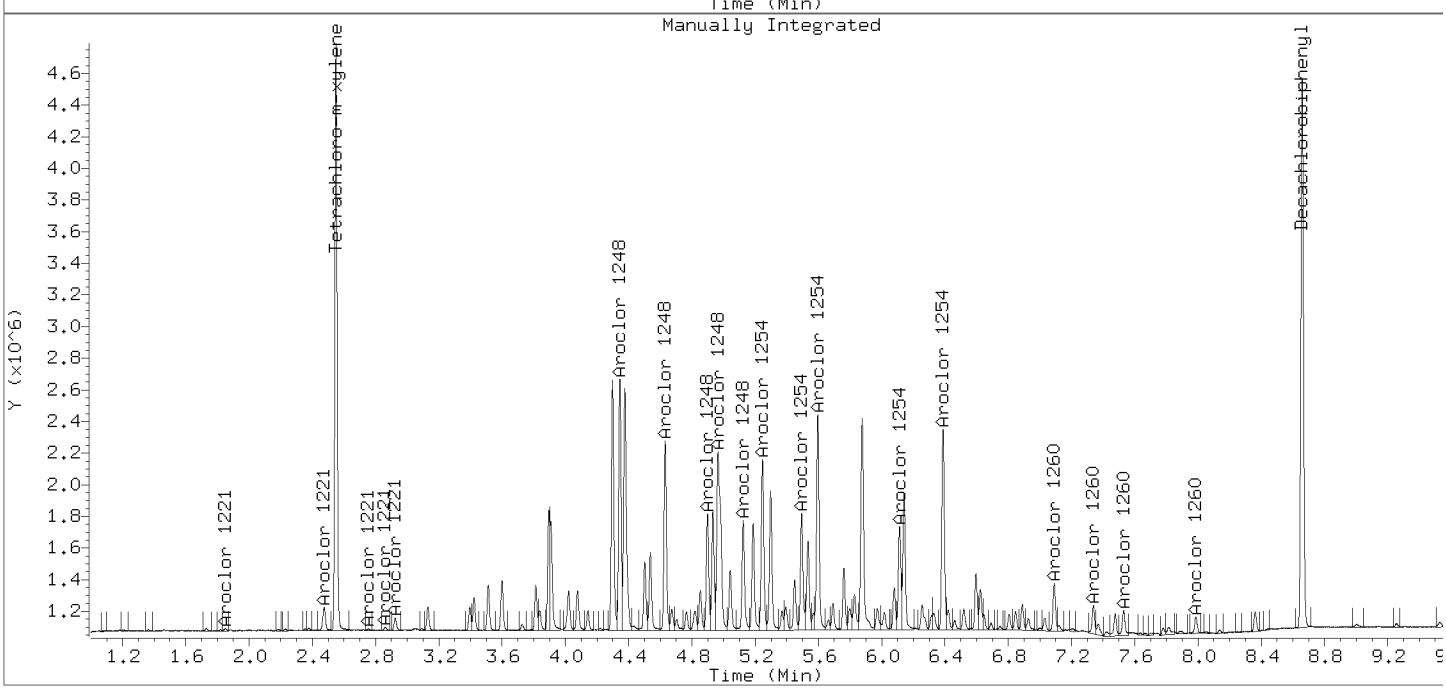
Instrument: 40GCSK.i
Operator: BLM
Column diameter: 0.18



Page 6

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318129.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 03:03 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158028015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	150206	0	
Aroclor 1016	150206	0	
Aroclor 1016	150206	0	
Aroclor 1016	150206	0	
Aroclor 1016	150206	0	
Aroclor 1221	18210	21331	BA
Aroclor 1221	18210	21331	BA
Aroclor 1221	18210	21331	BA
Aroclor 1221	18210	21331	BA
Aroclor 1221	18210	21331	BA
Aroclor 1232	87259	0	
Aroclor 1232	87259	0	
Aroclor 1232	87259	0	
Aroclor 1232	87259	0	

Aroclor 1232	87259	0	
Aroclor 1242	150206	0	
Aroclor 1242	150206	0	
Aroclor 1242	150206	0	
Aroclor 1242	150206	0	
Aroclor 1242	150206	0	
Aroclor 1248	1706420	1719328	BA
Aroclor 1248	1706420	1719328	BA
Aroclor 1248	1706420	1719328	BA
Aroclor 1248	1706420	1719328	BA
Aroclor 1248	1706420	1719328	BA
Aroclor 1254	1221590	1241688	BA
Aroclor 1254	1221590	1241688	BA
Aroclor 1254	1221590	1241688	BA
Aroclor 1254	1221590	1241688	BA
Aroclor 1254	1221590	1241688	BA
Aroclor 1260	1482714	0	BA
Aroclor 1260	1482714	0	BA
Aroclor 1260	1482714	0	BA
Aroclor 1260	1482714	0	BA
Aroclor 1260	1482714	0	BA
Tetrachloro-m-xylene	3642559	3651911	BA
Decachlorobiphenyl	4014673	4014673	

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PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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

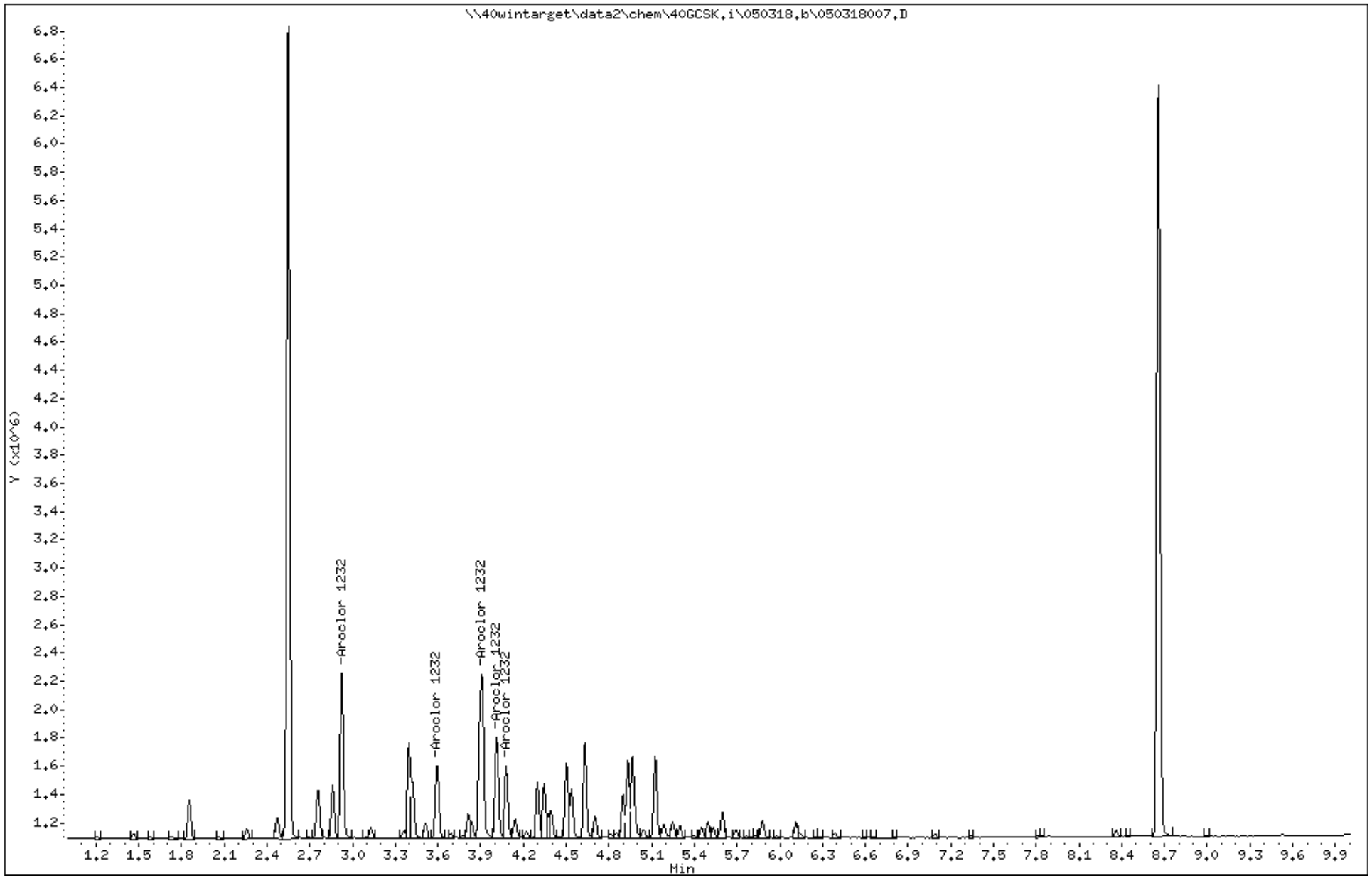
M - Compound response manually integrated.

Review Codes Legend

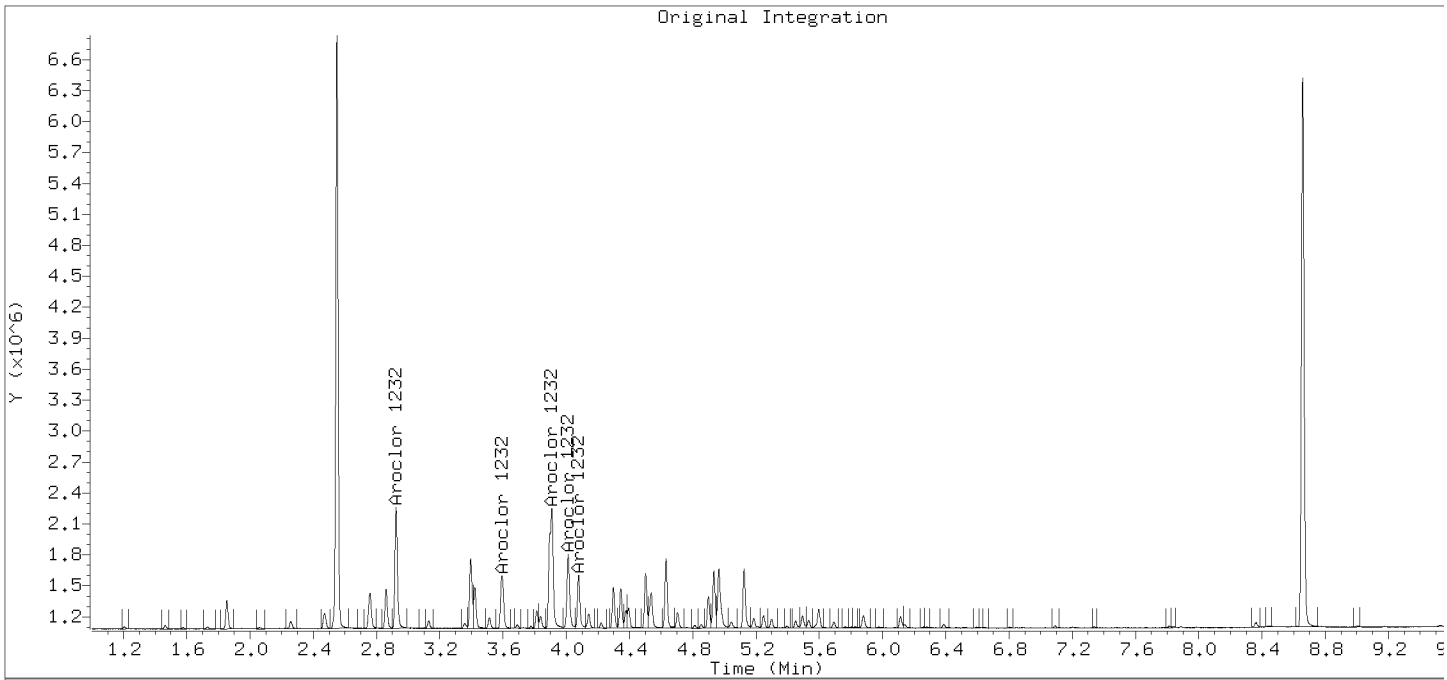
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

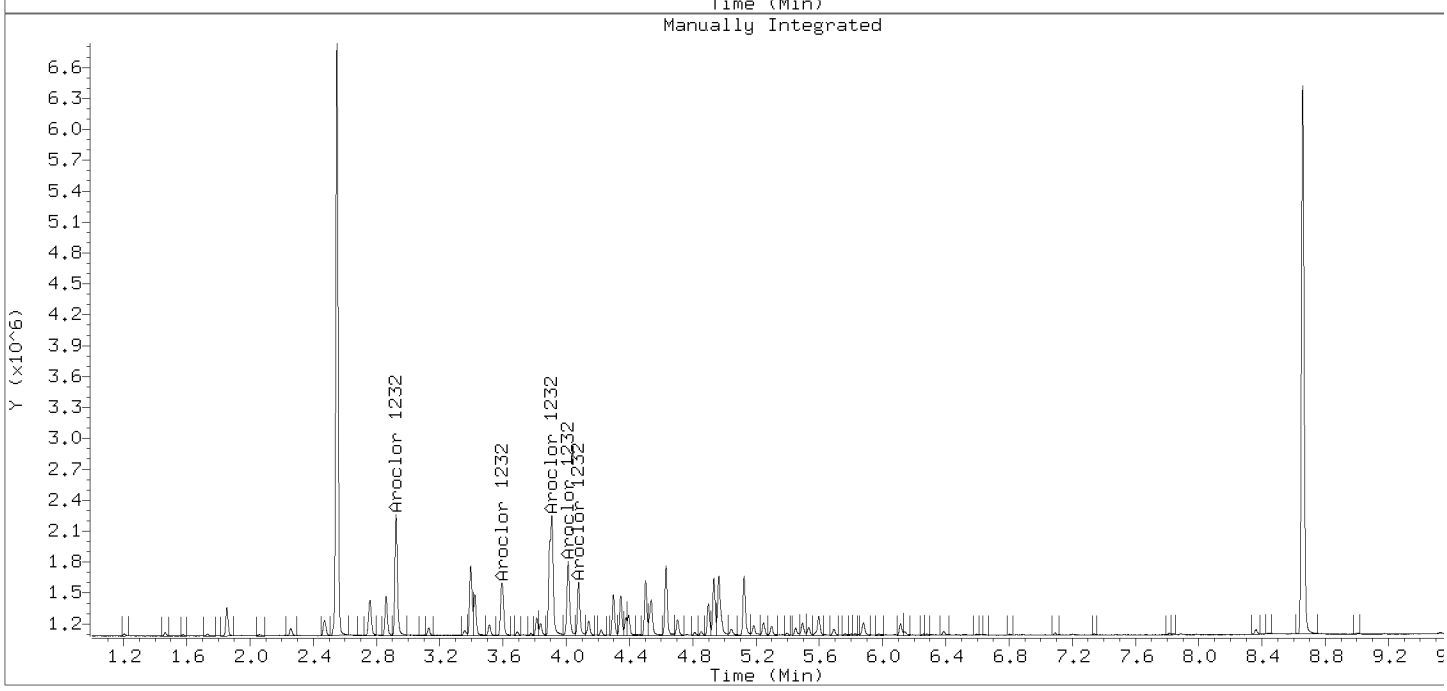
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318007.D
Date : 03-MAY-2018 10:38
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Instrument: 40GCSK.i
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.

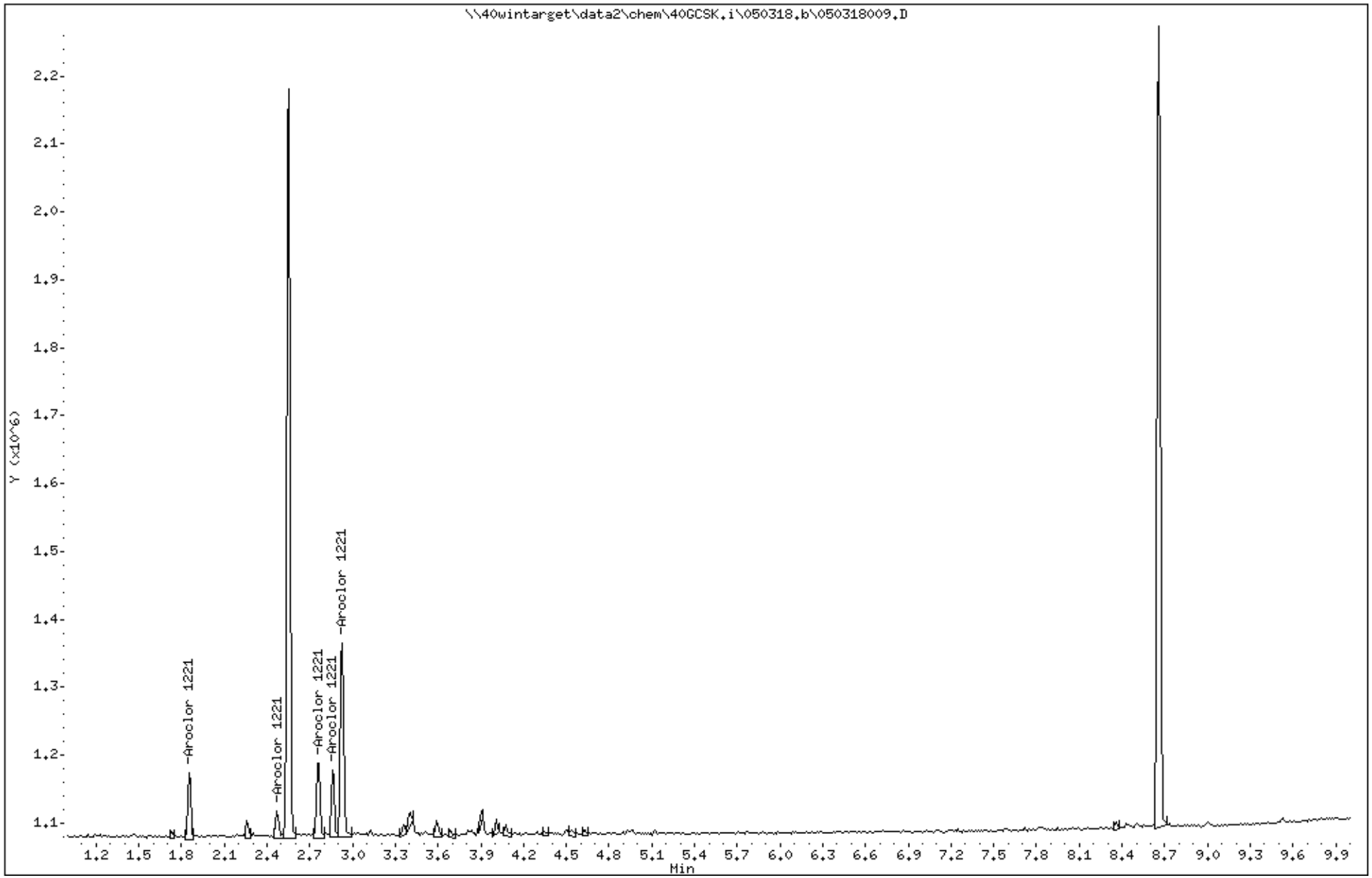
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Date : 03-MAY-2018 10:54
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSK.i

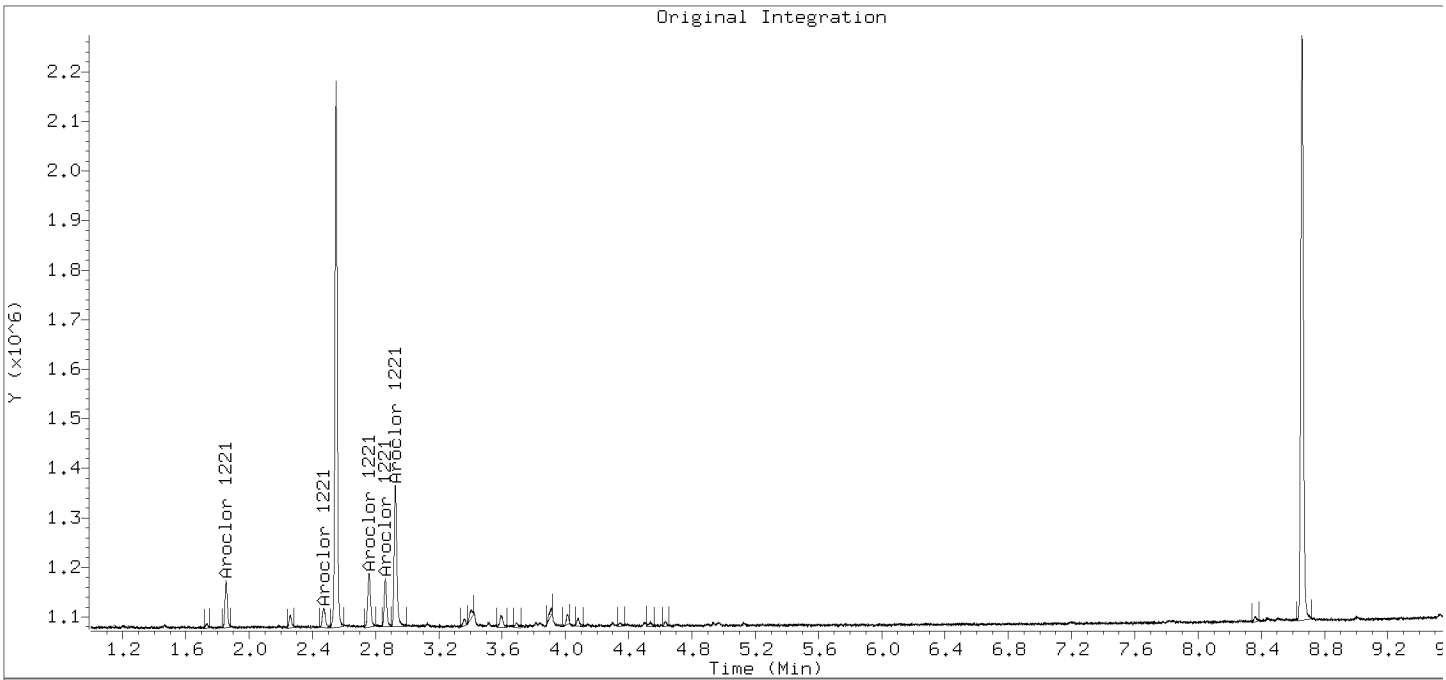
Operator: BLM

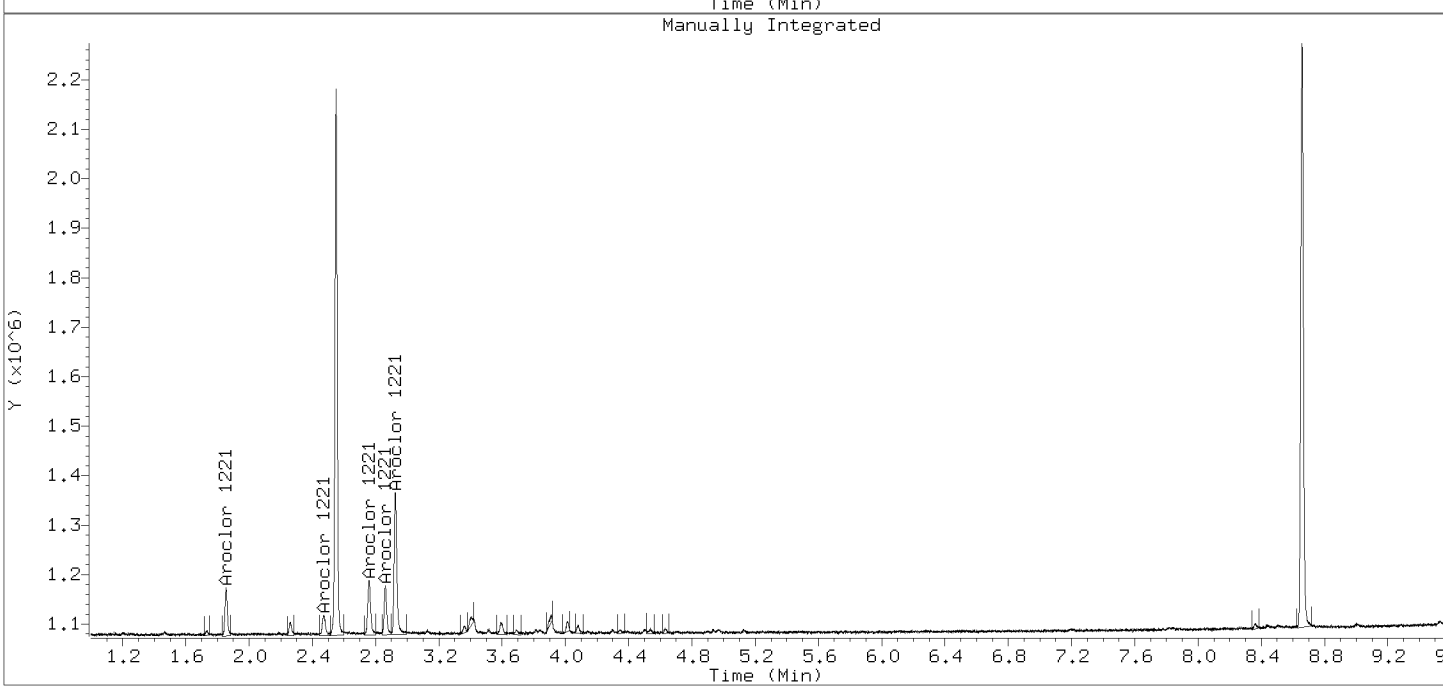
Column phase: ZB-1ms

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

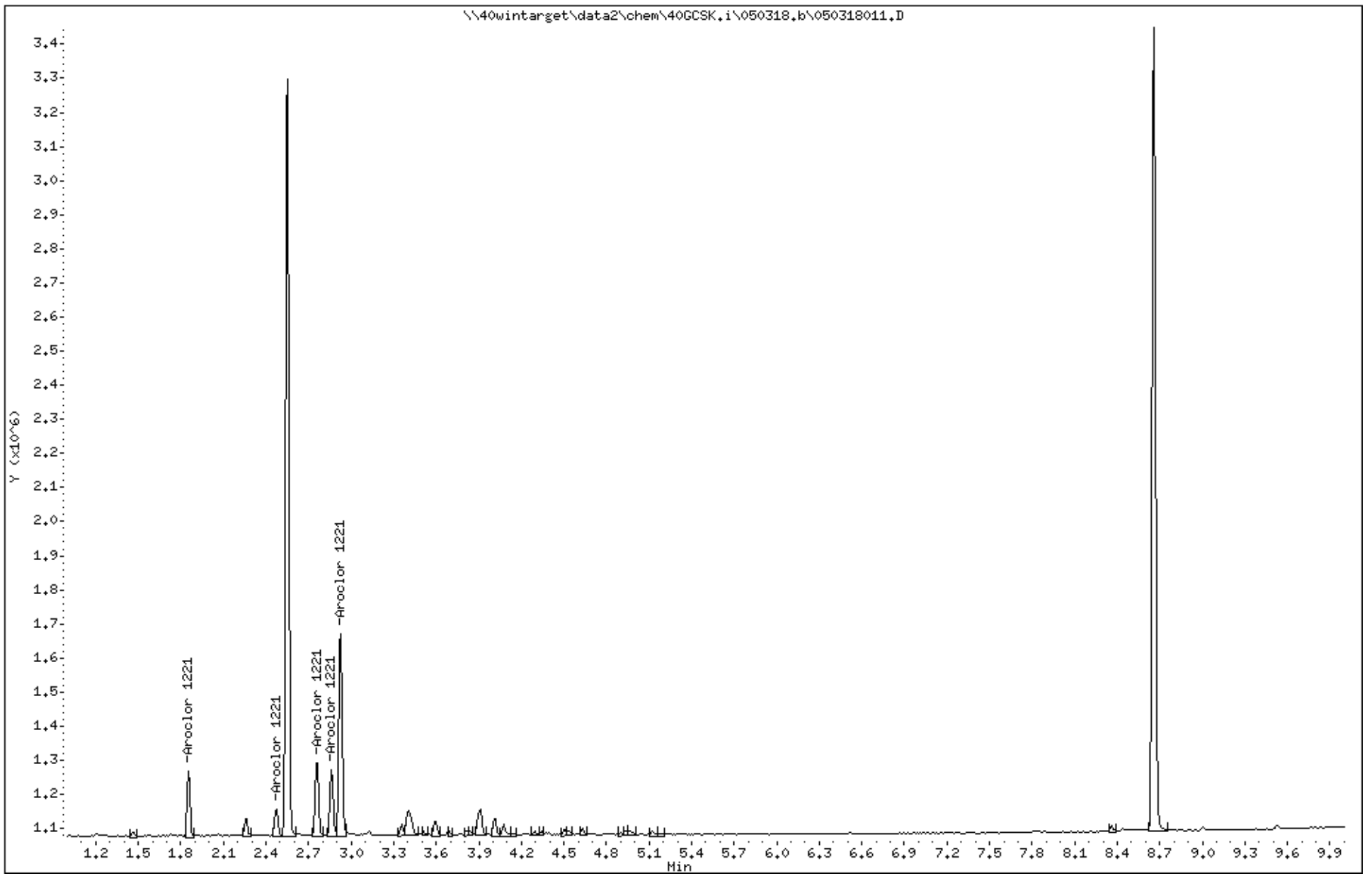
M - Compound response manually integrated.

Review Codes Legend

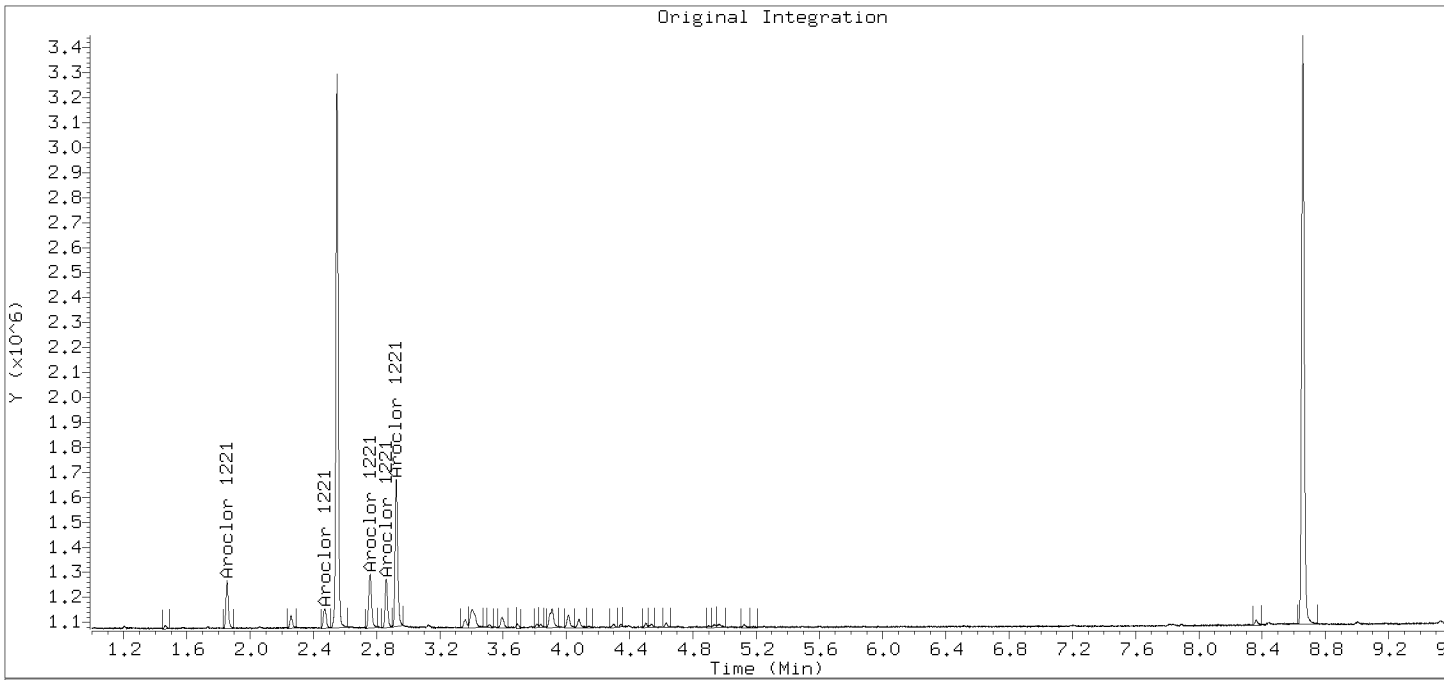
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

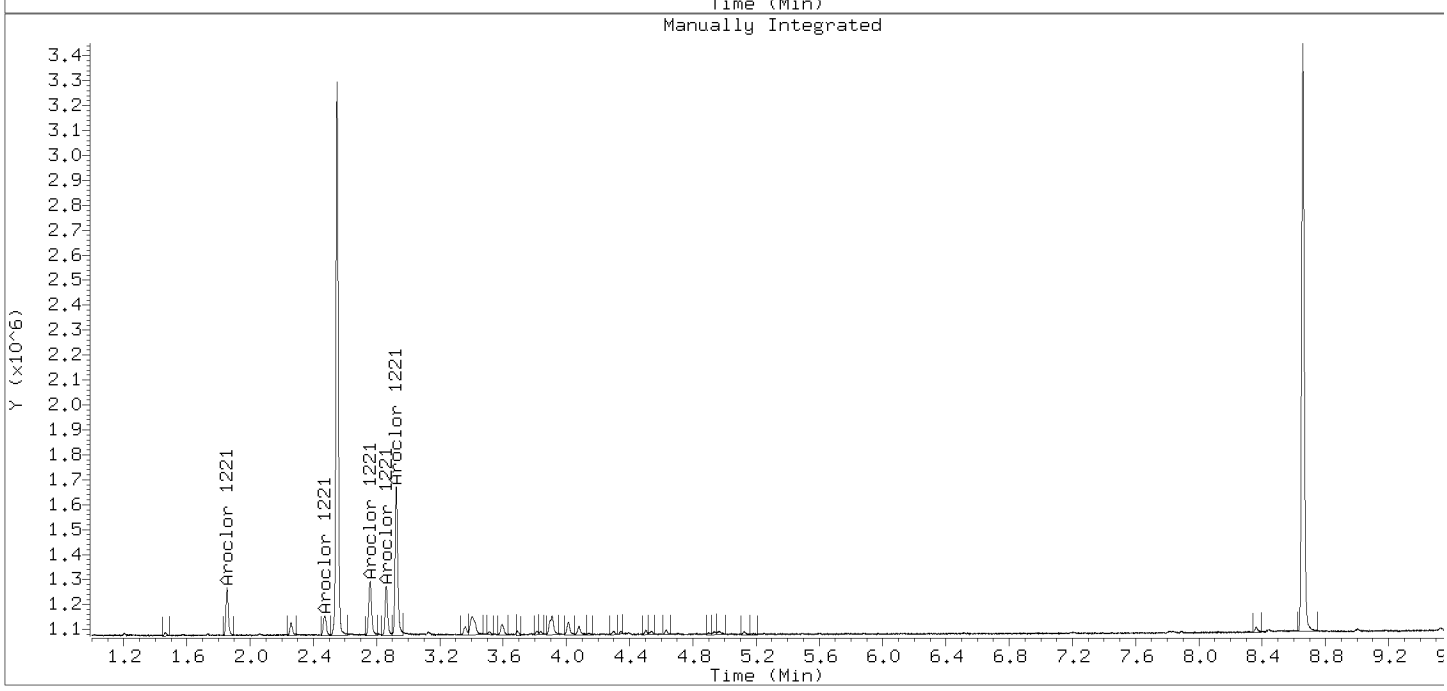
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Date : 03-MAY-2018 11:10
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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

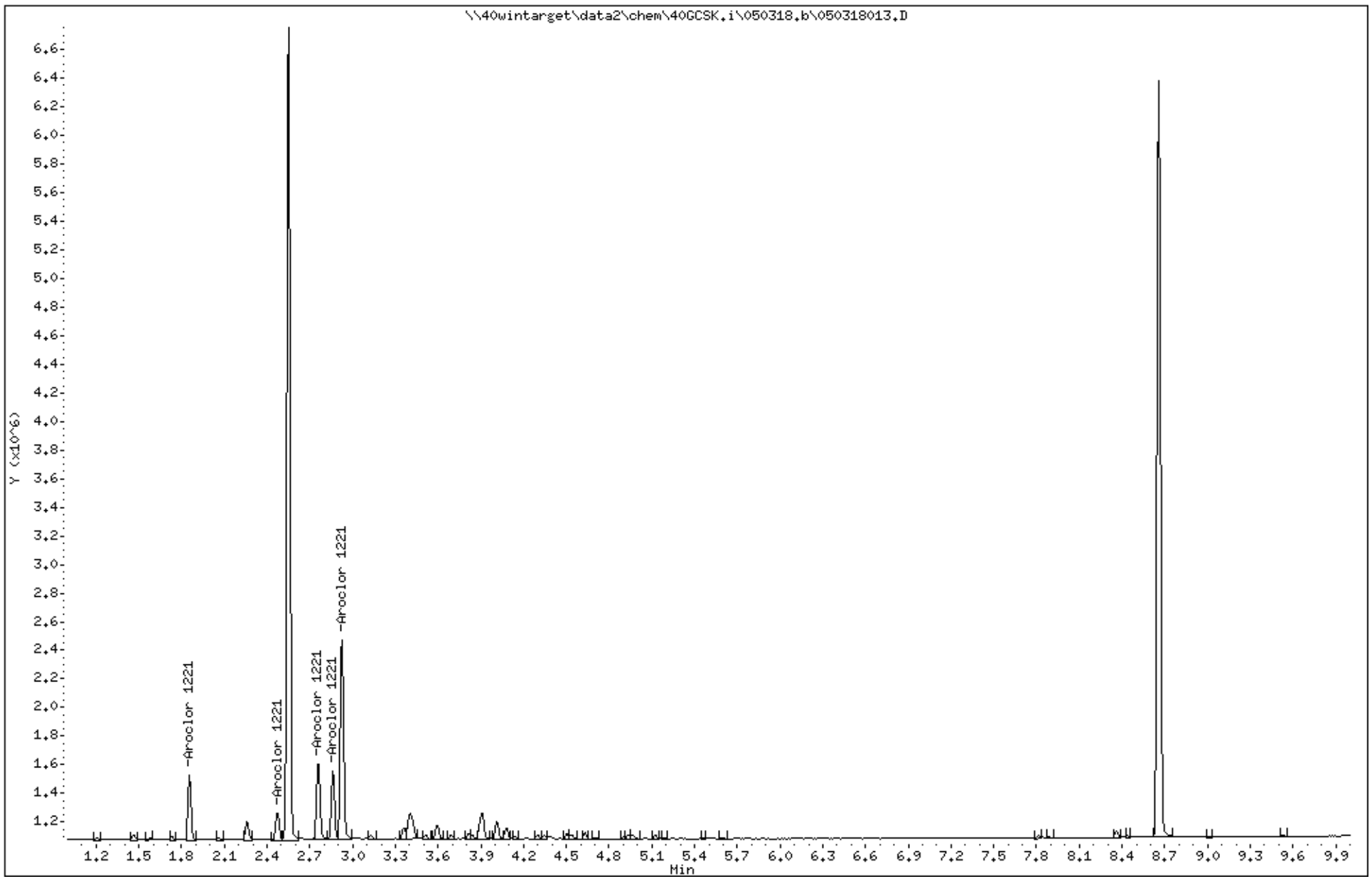
M - Compound response manually integrated.

Review Codes Legend

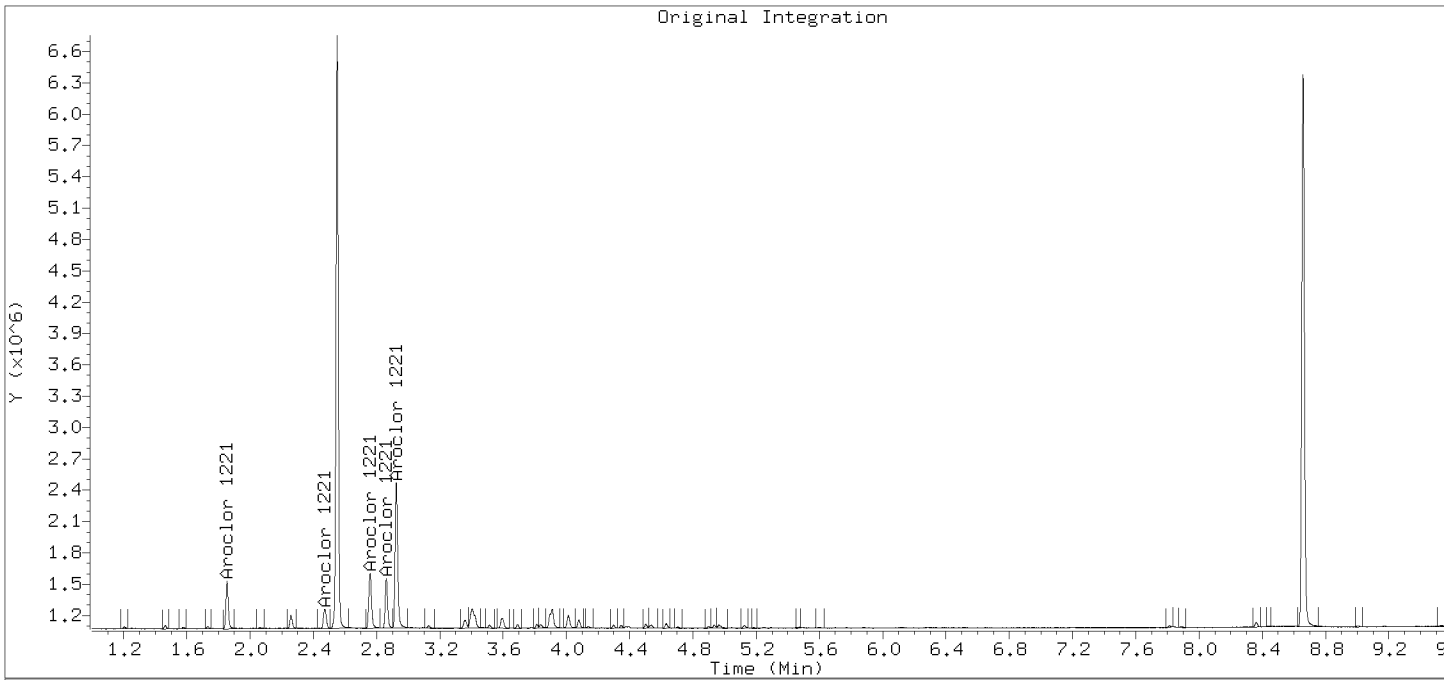
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

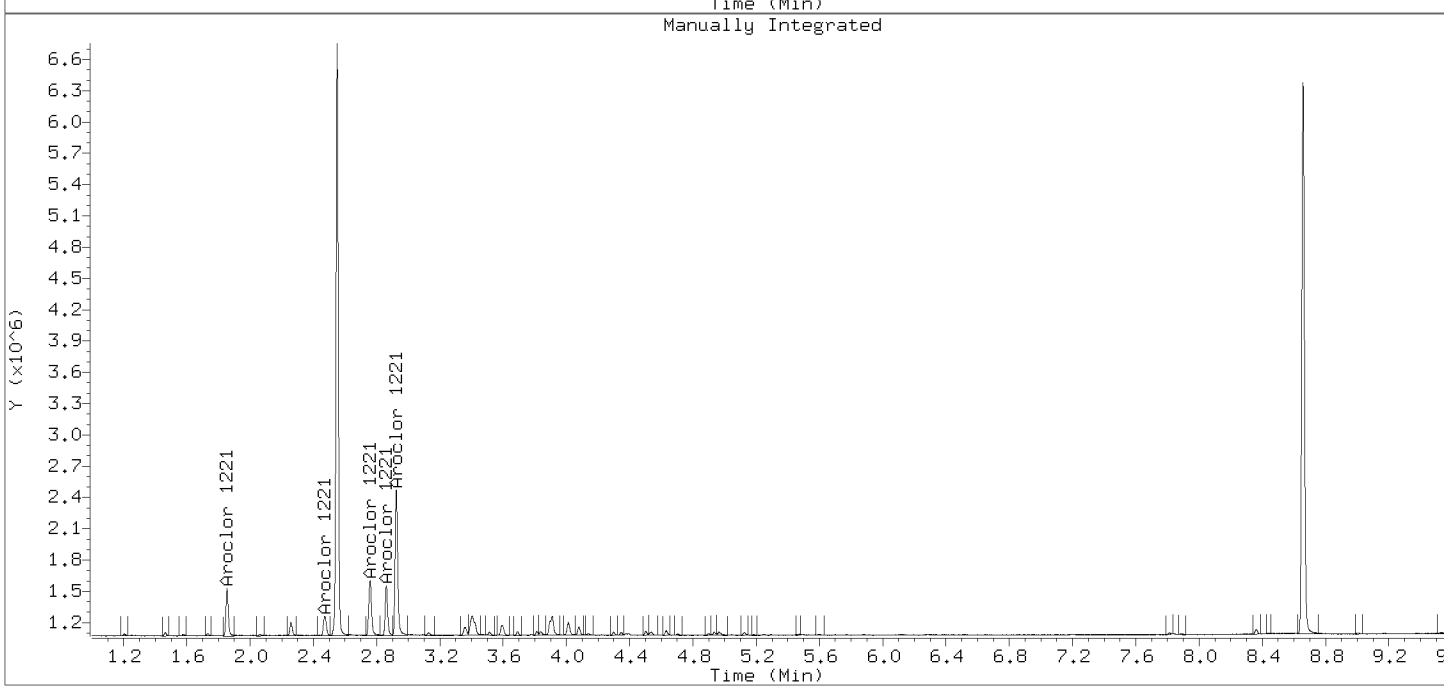
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Date : 03-MAY-2018 11:26
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

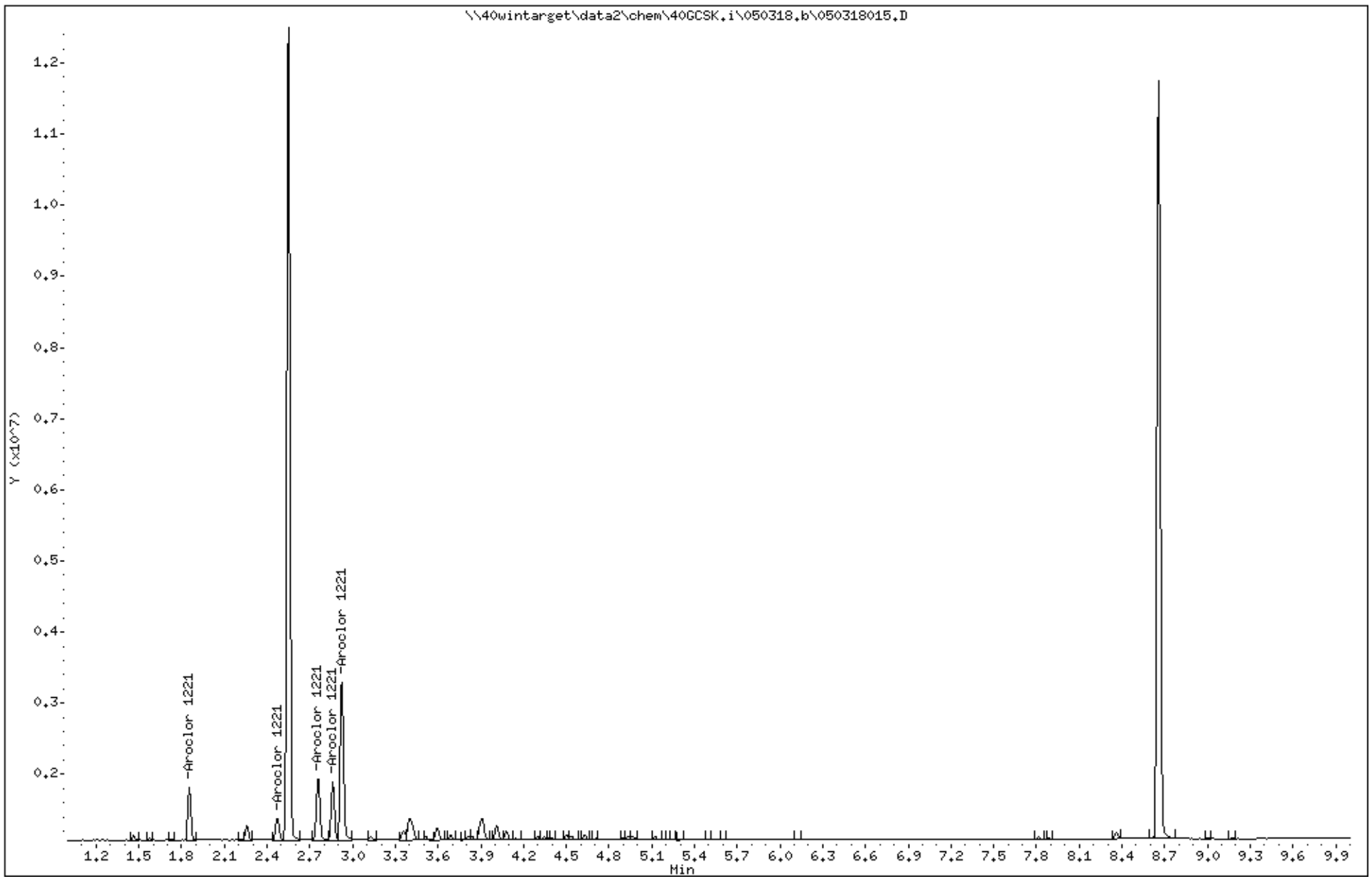
Instrument: 40GCSK.i

Sample Info: 1221-CAL4F, 188140:1

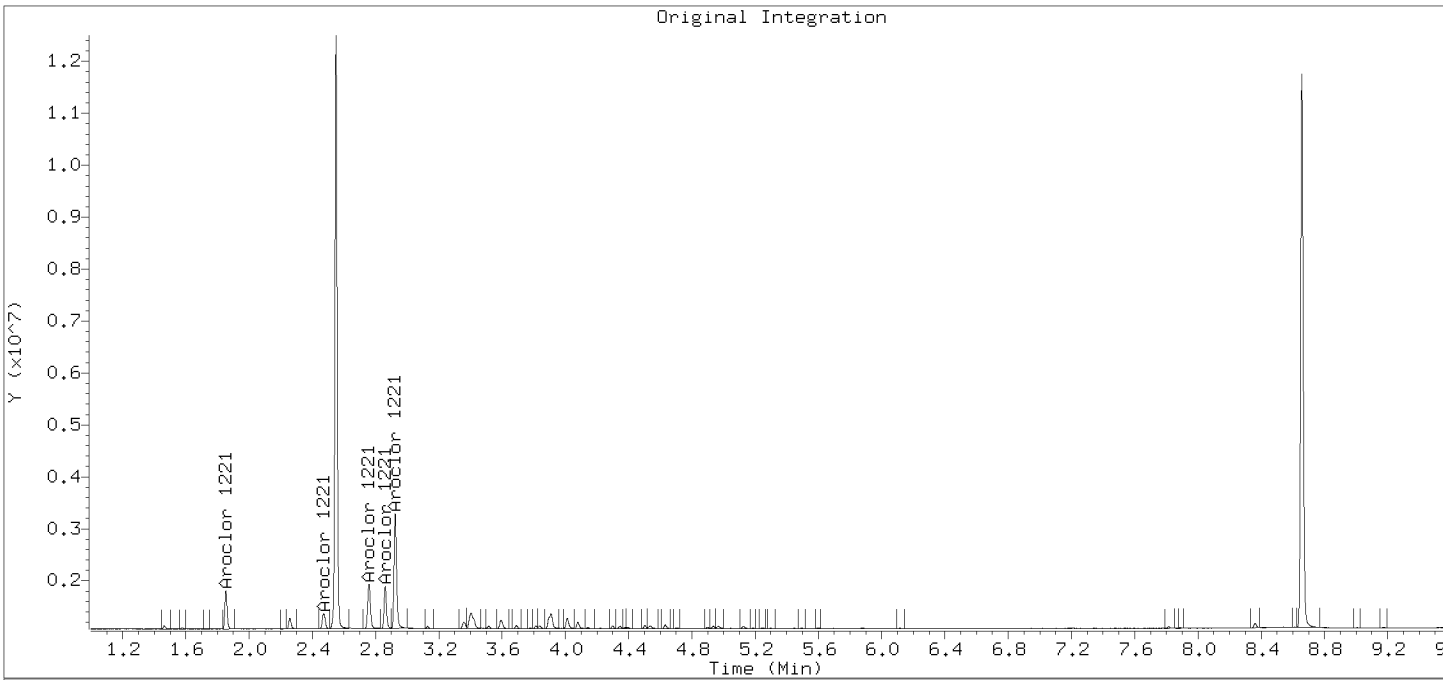
Operator: BLM

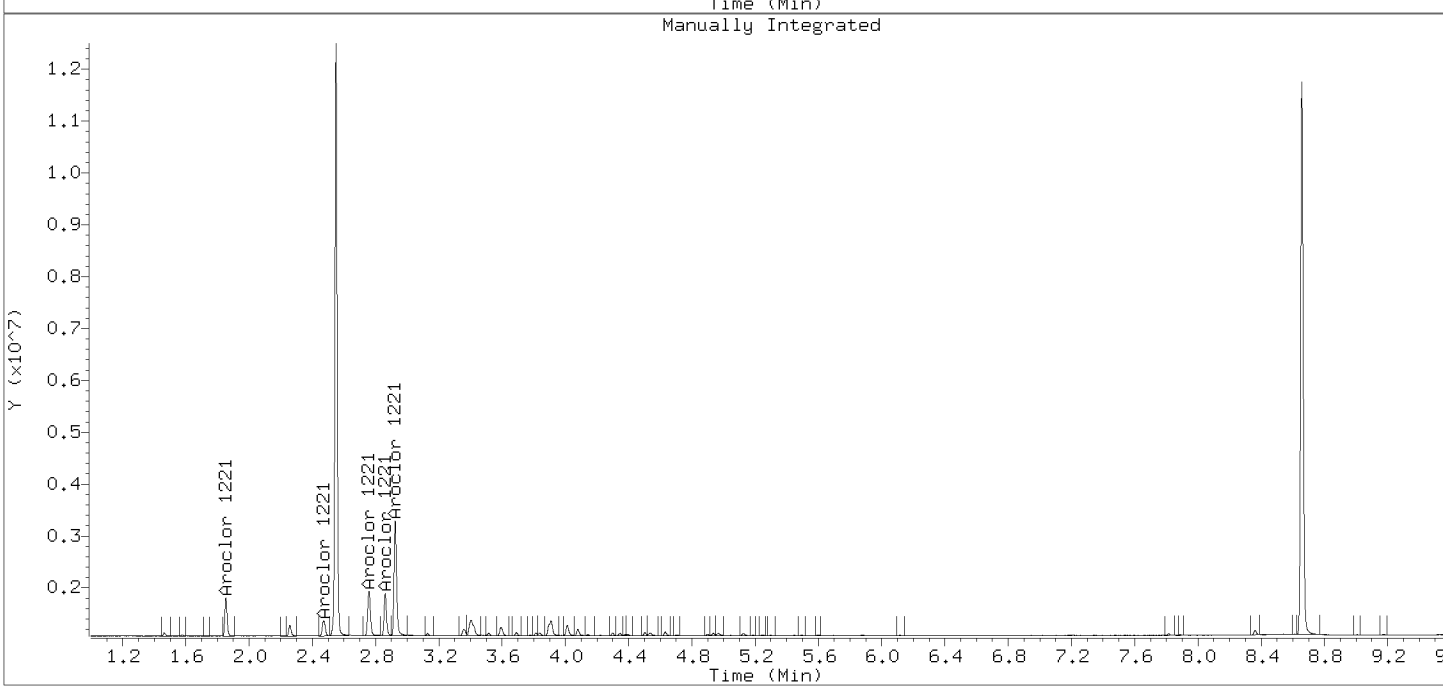
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 85

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 11:58

Client ID: 1221-CAL5F

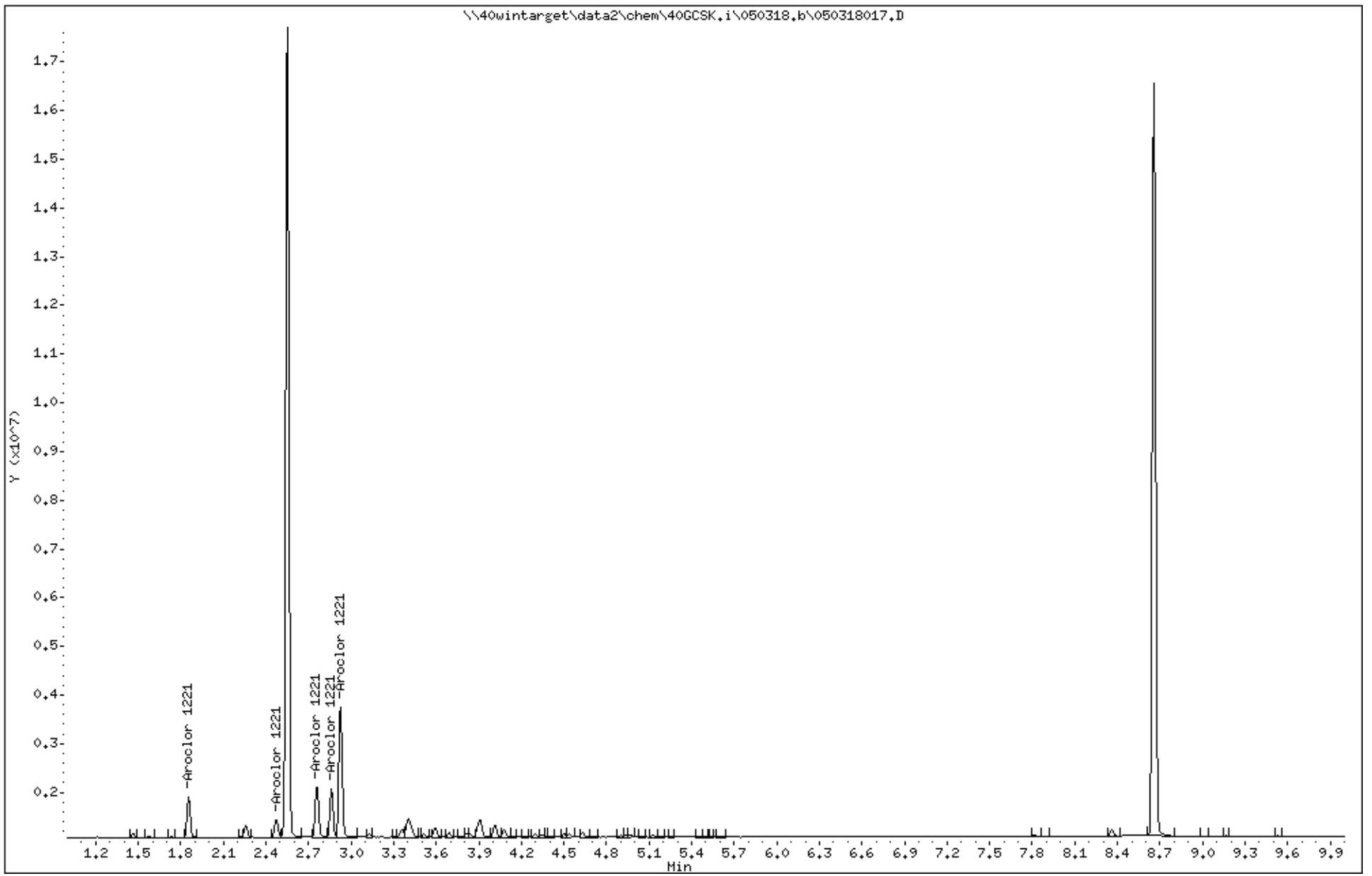
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

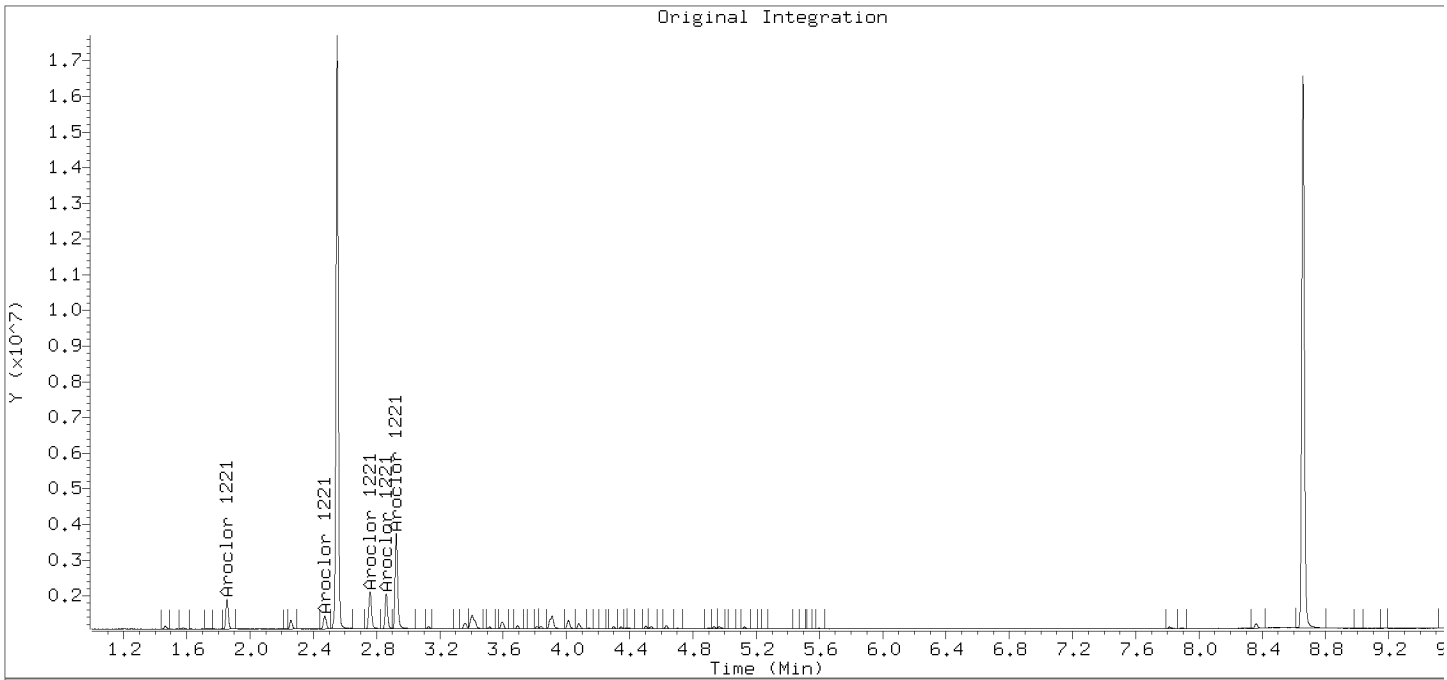
Operator: BLM

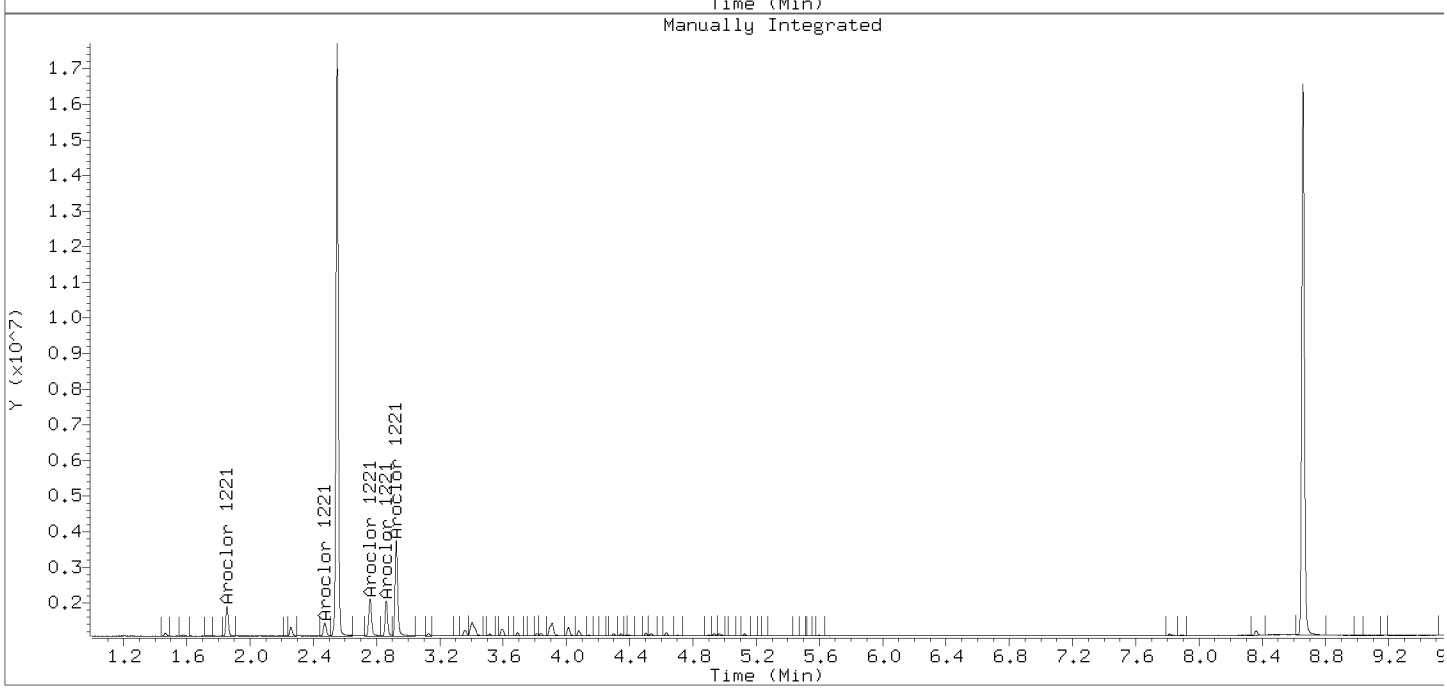
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 12:30

Client ID: 1242-CAL1B

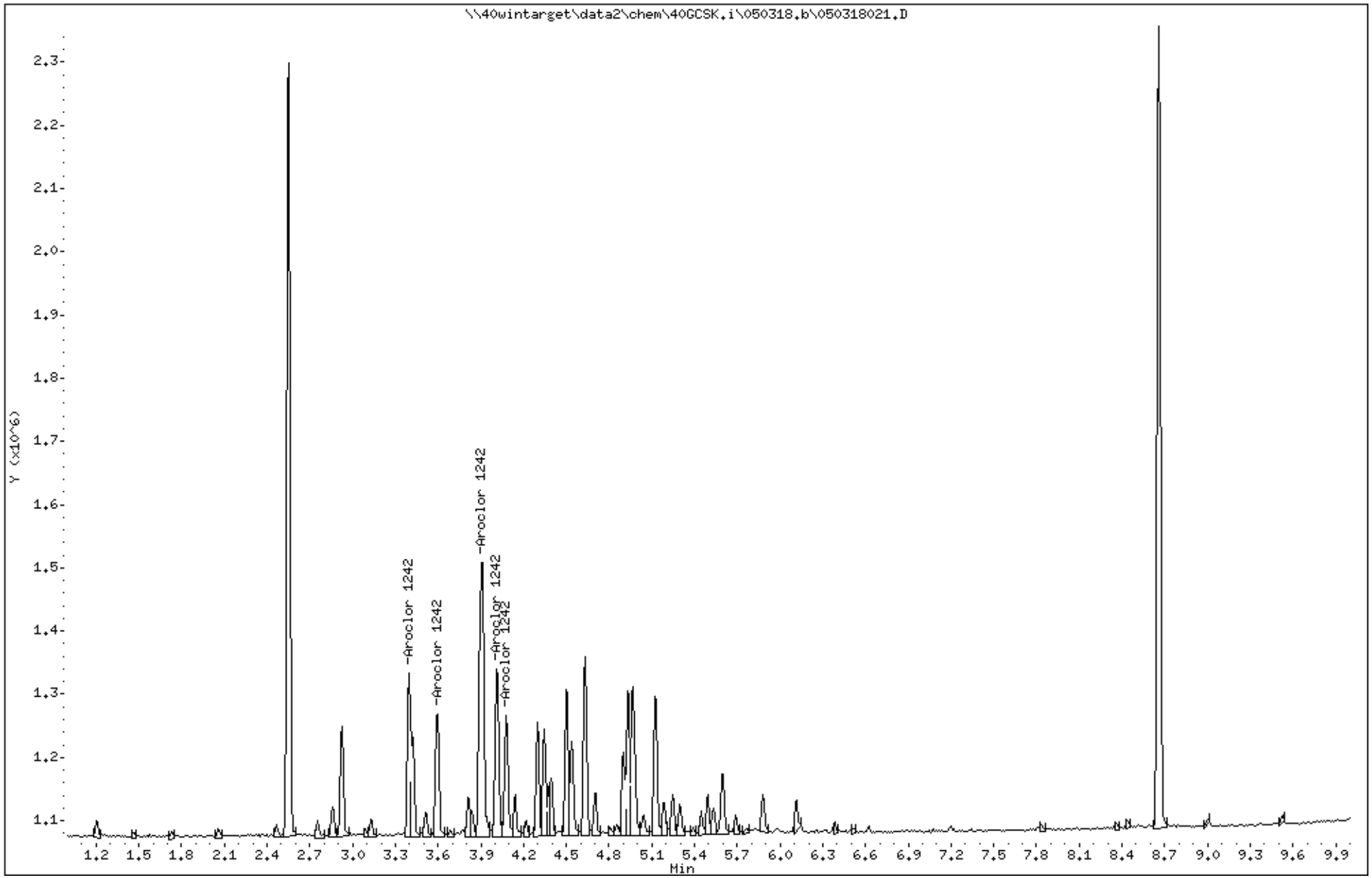
Instrument: 40GCSK.i

Sample Info: 1242-CAL1B, 188132:1

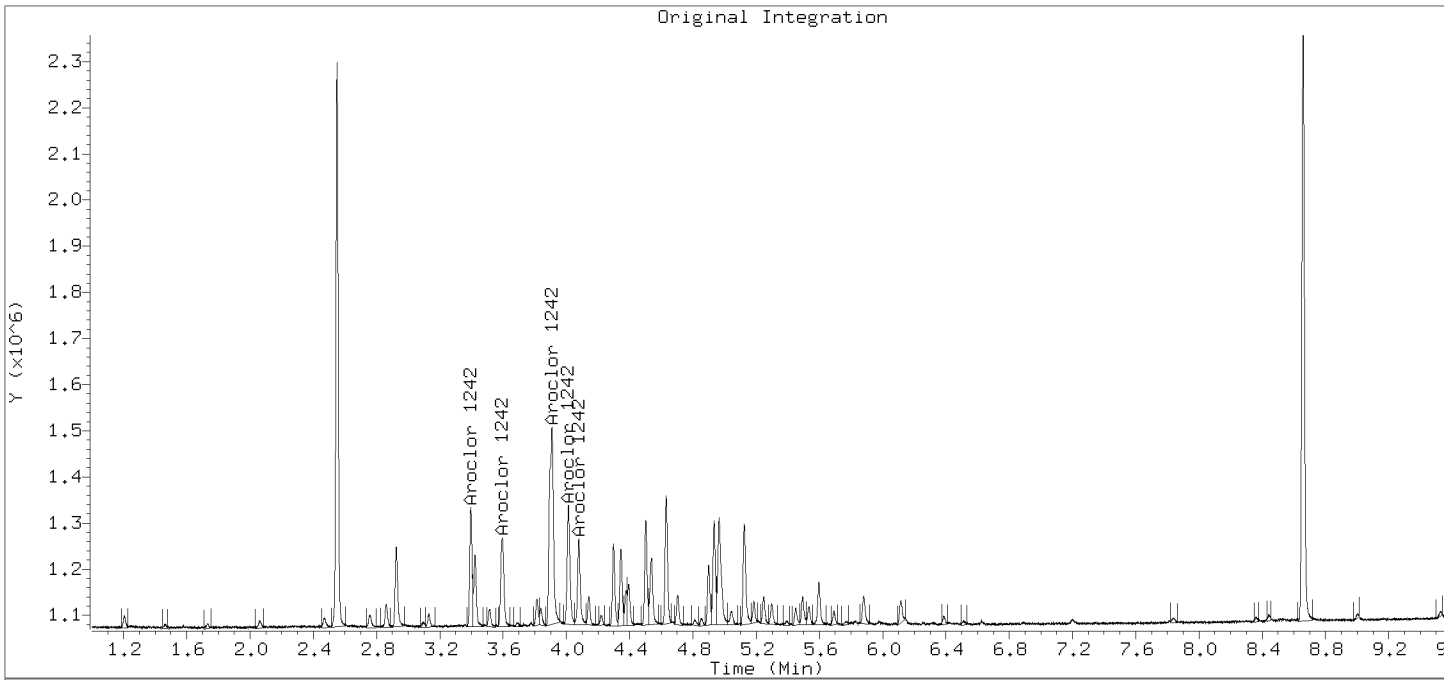
Operator: BLM

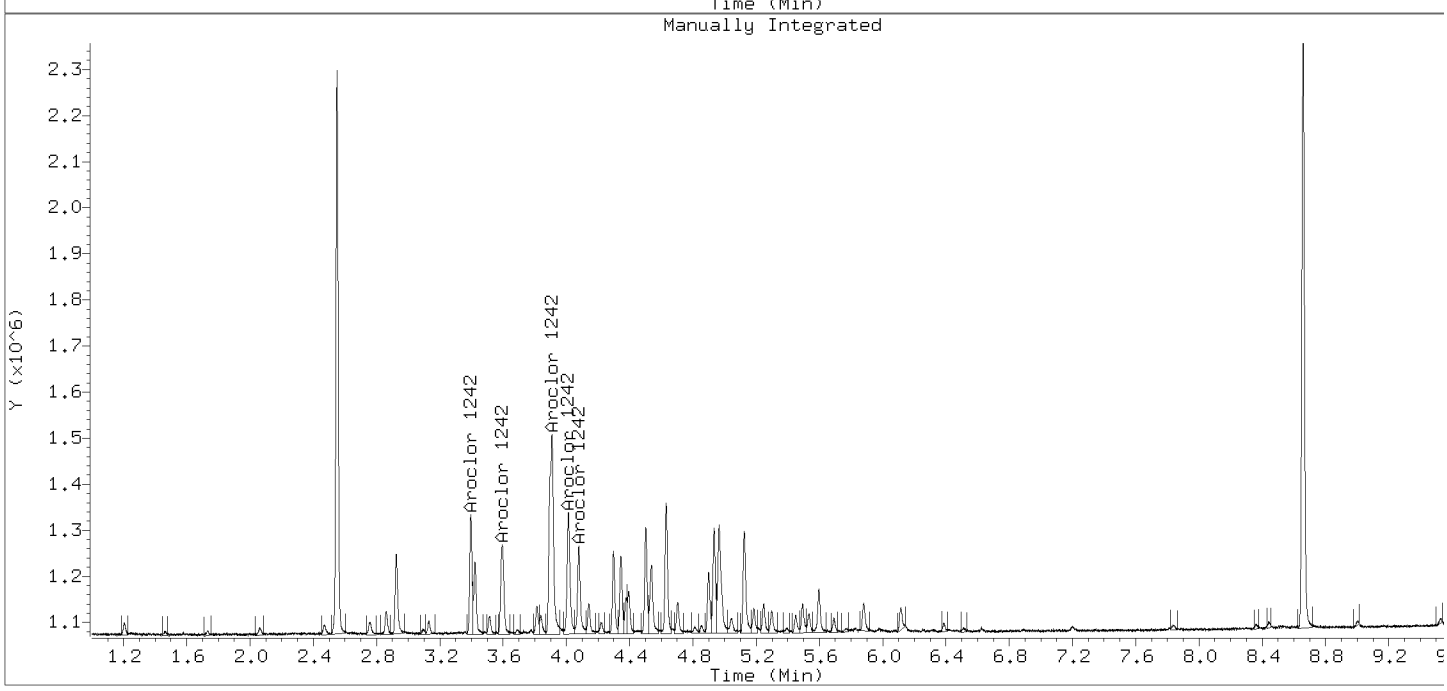
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 12:47

Client ID: 1242-CAL2B

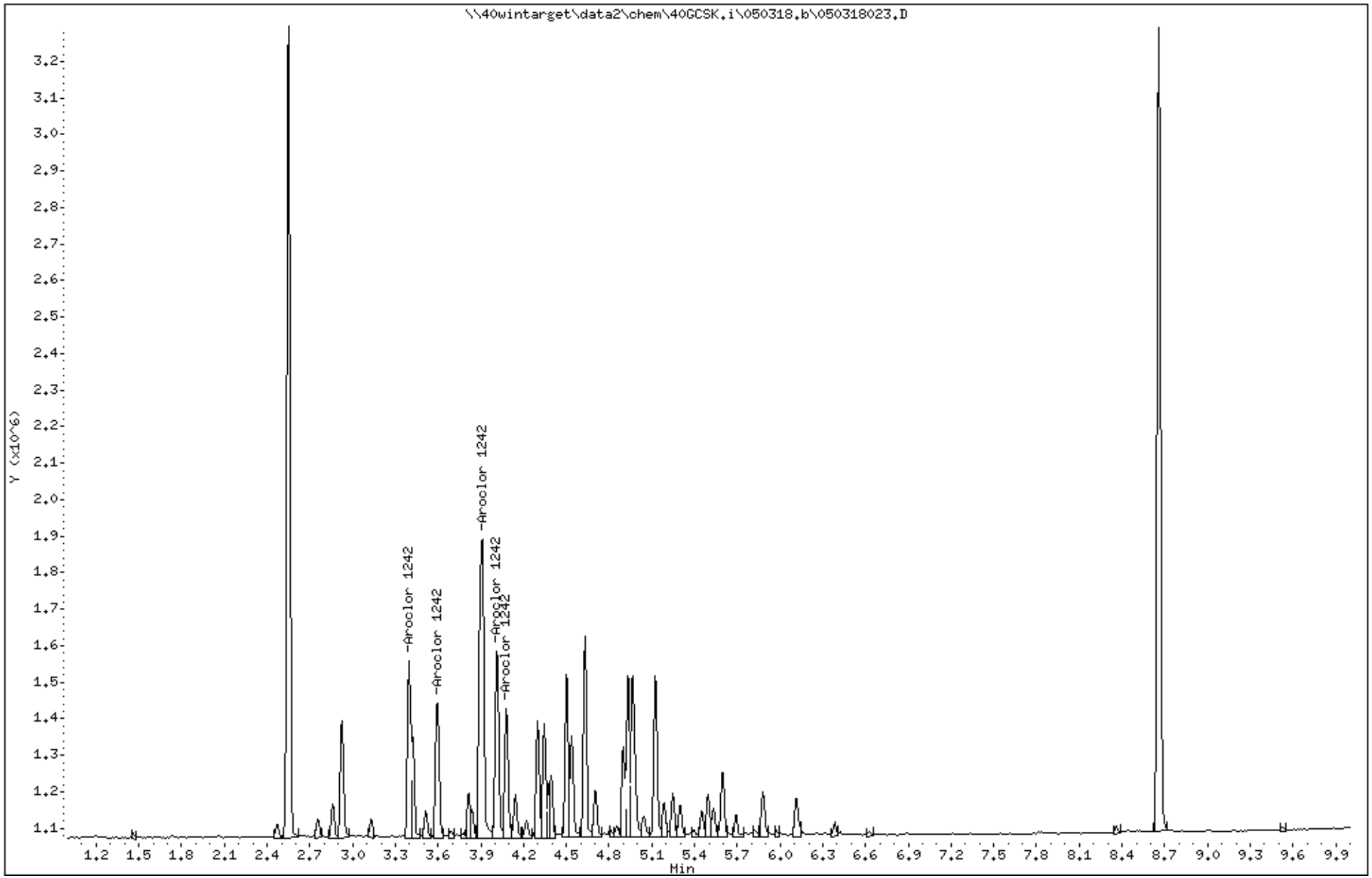
Instrument: 40GCSK.i

Sample Info: 1242-CAL2B, 185543:1

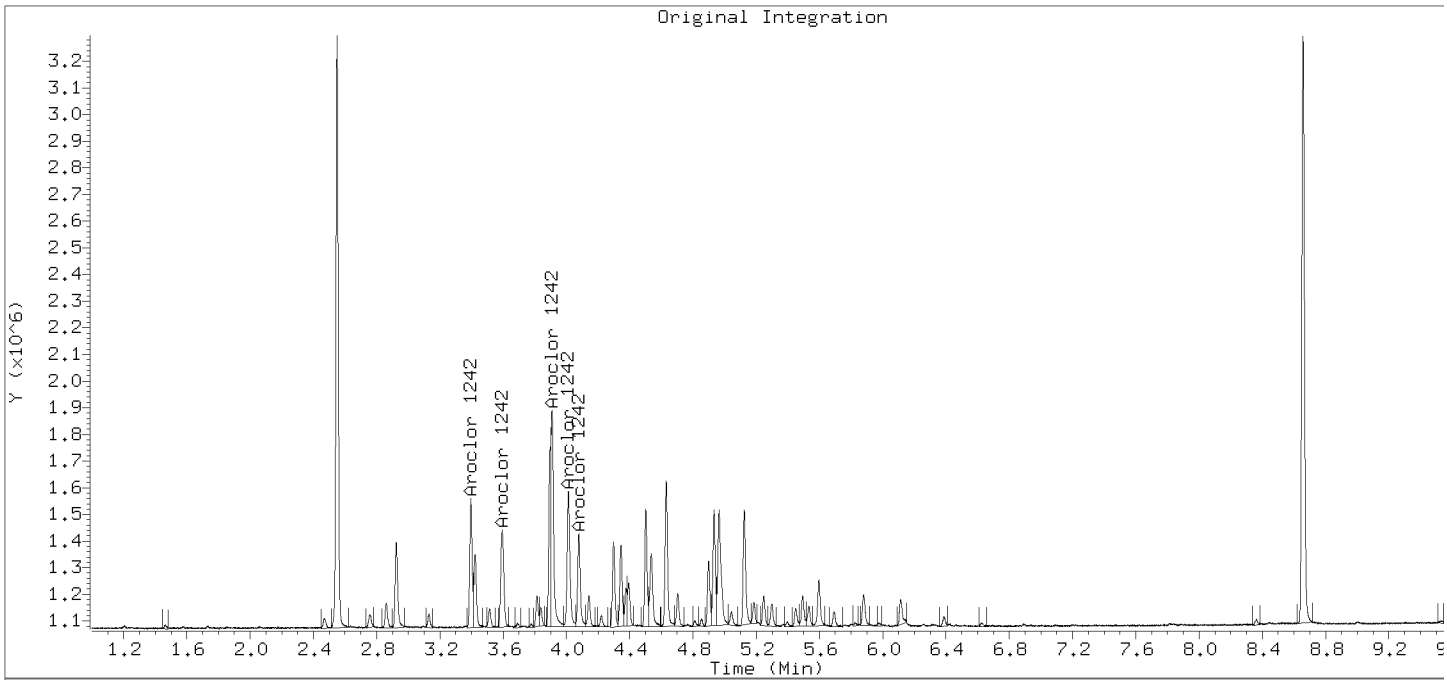
Operator: BLM

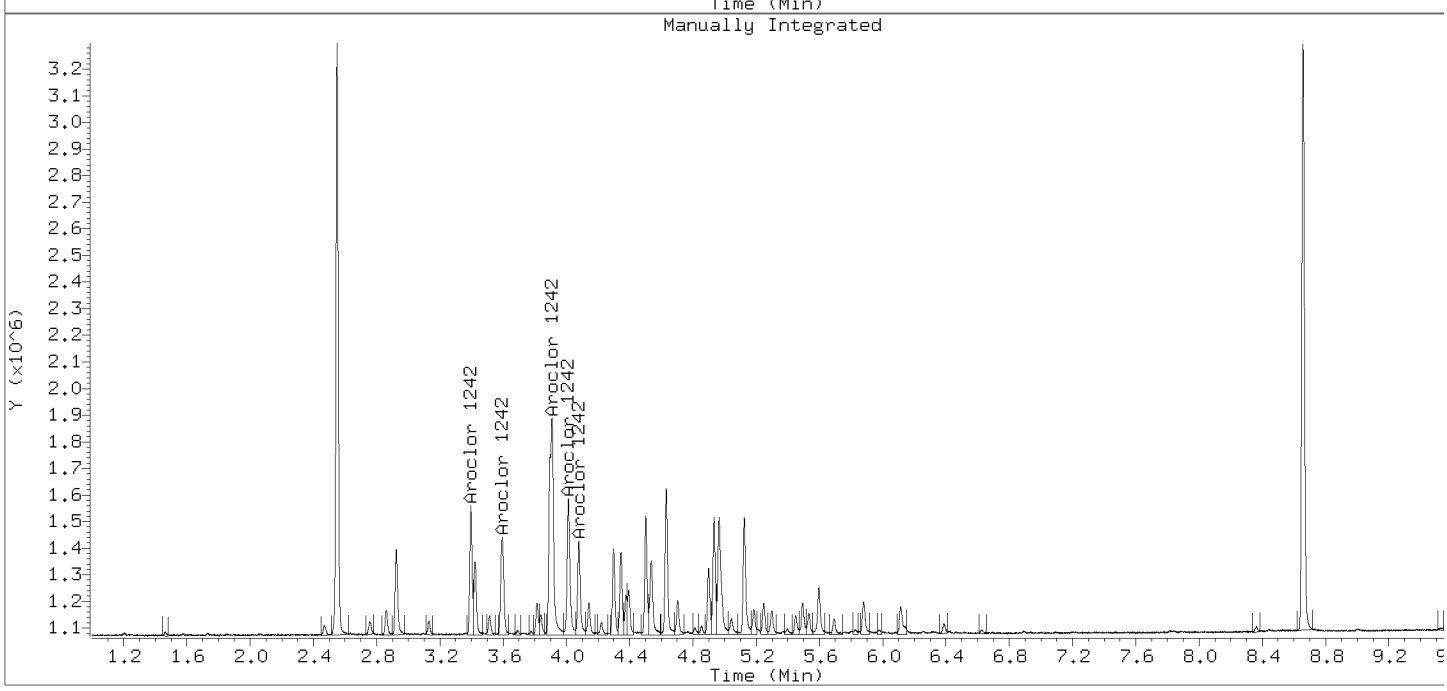
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

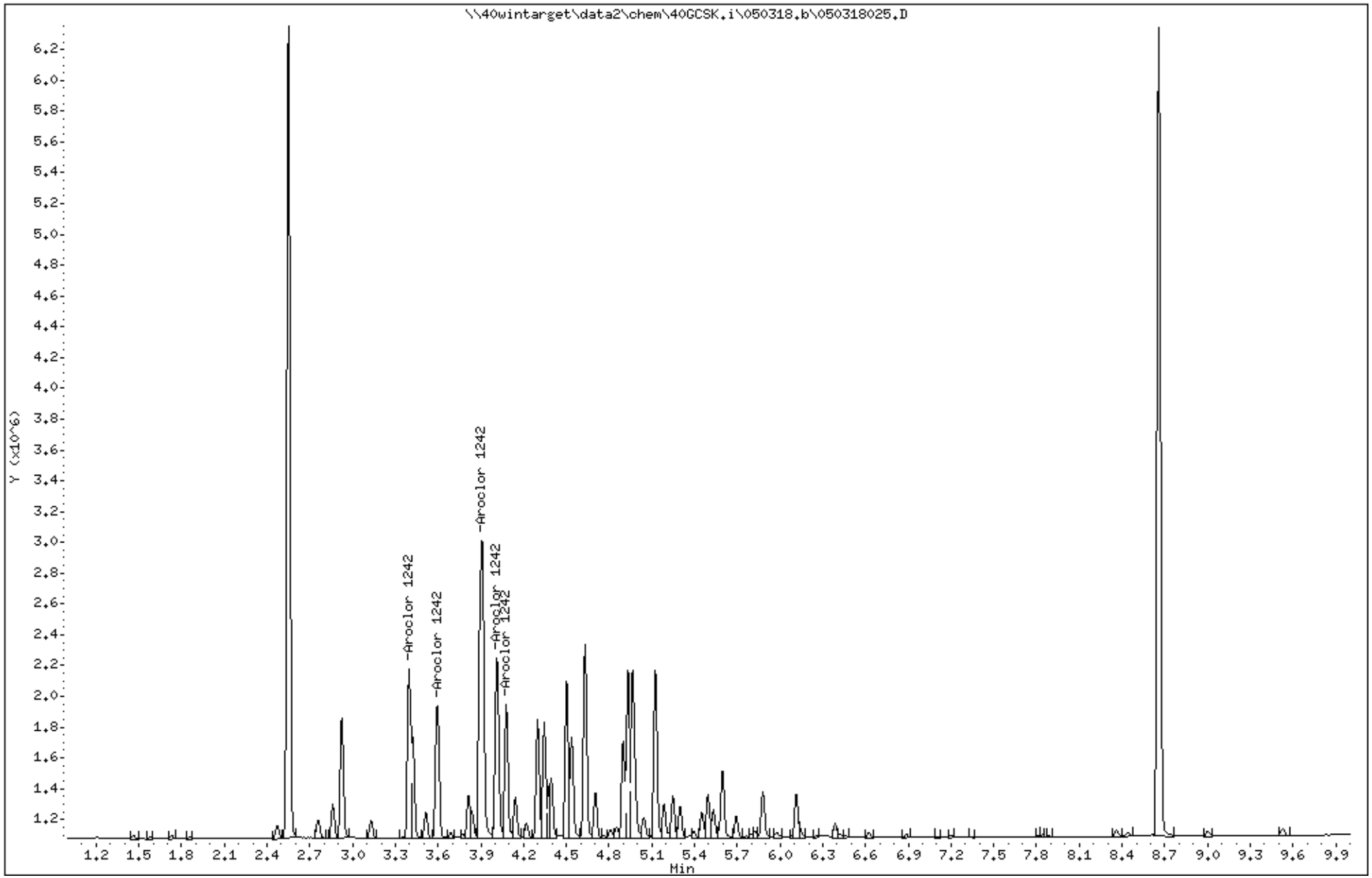
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Date : 03-MAY-2018 13:03
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

Instrument: 40GCSK.i

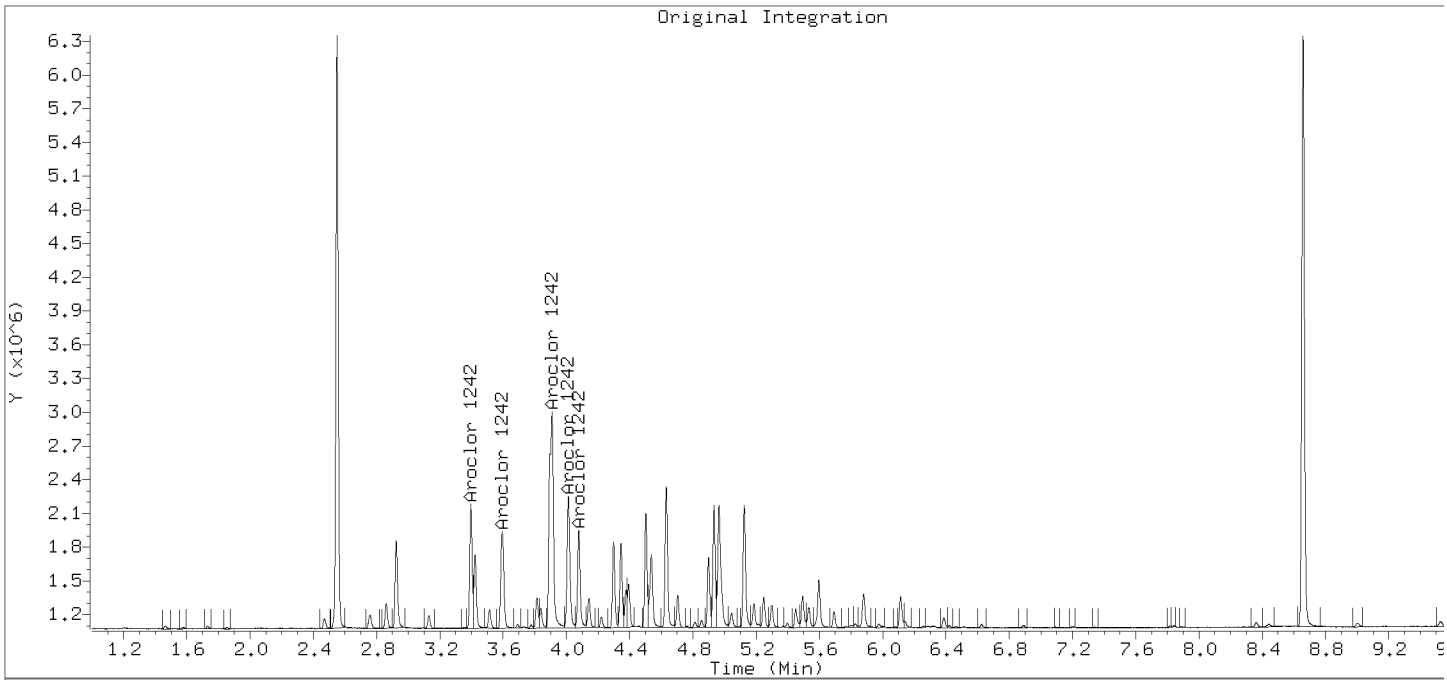
Operator: BLM

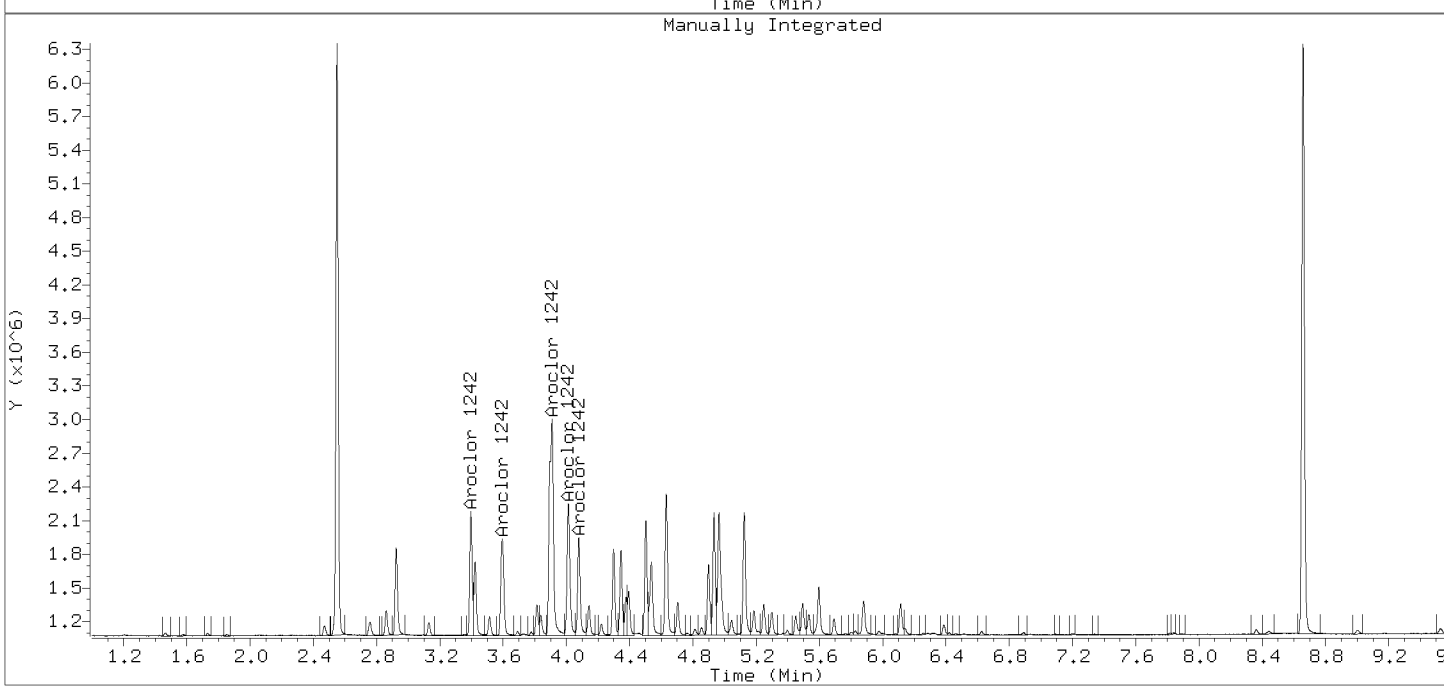
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

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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

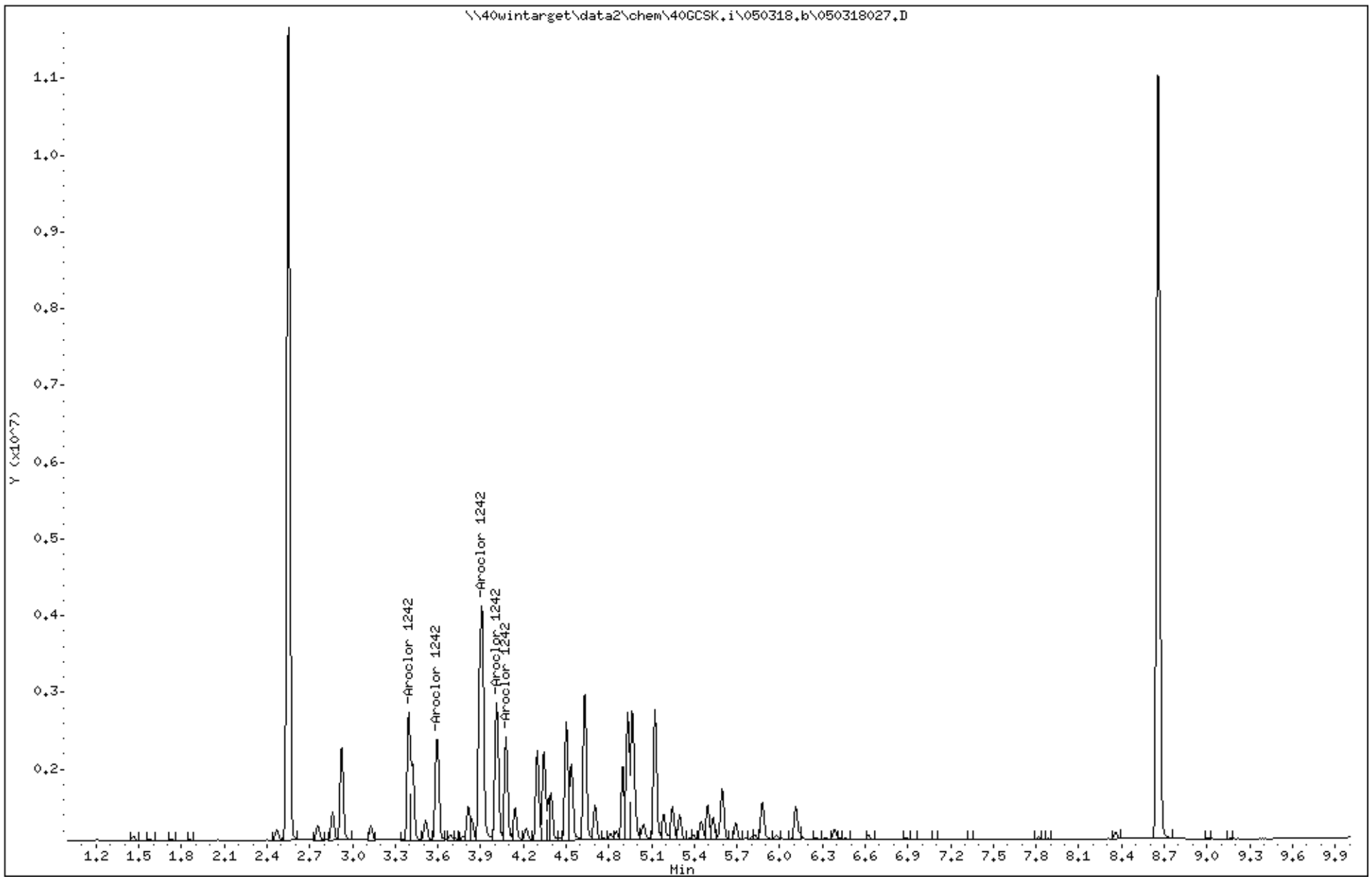
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D
Date : 03-MAY-2018 13:19
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

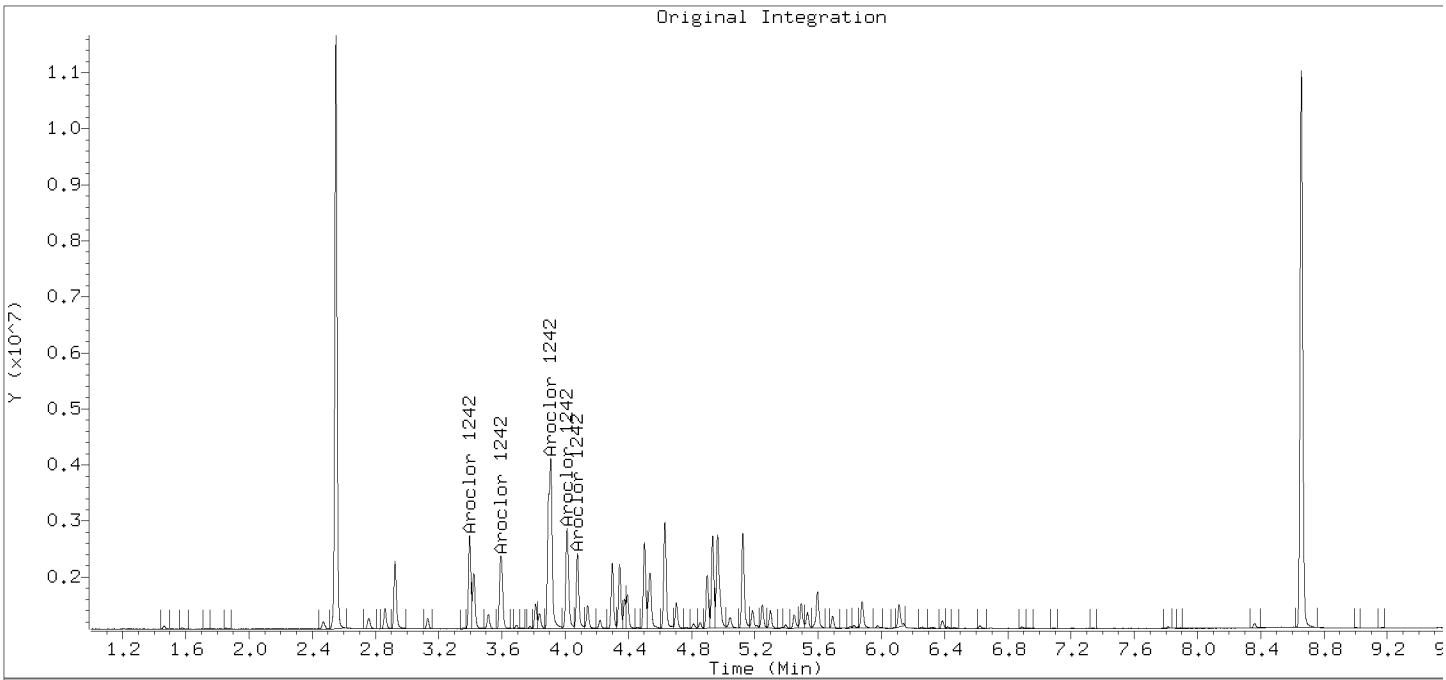
Column phase: ZB-1ms

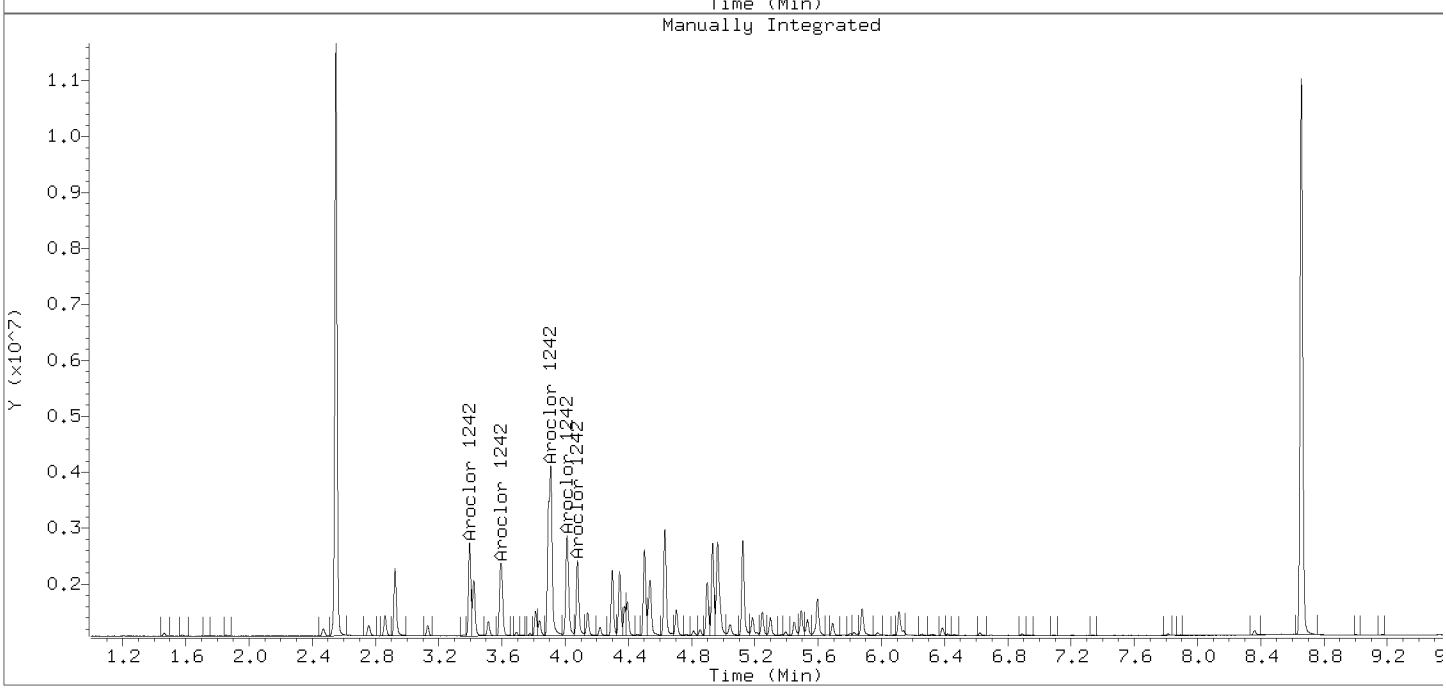
Instrument: 40GCSK.i

Operator: BLM
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

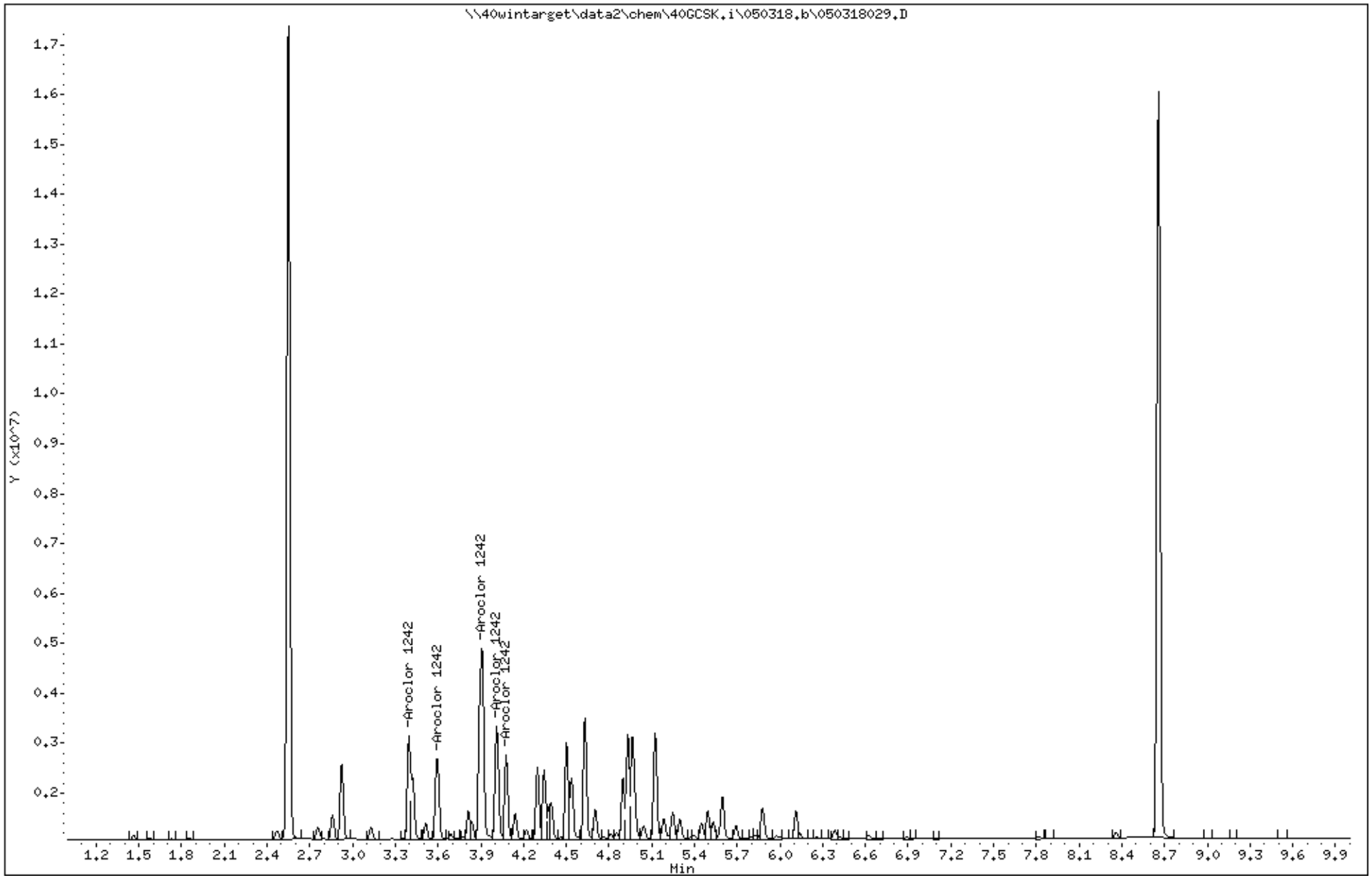
Instrument: 40GCSK.i

Sample Info: 1242-CAL5B, 185546:1

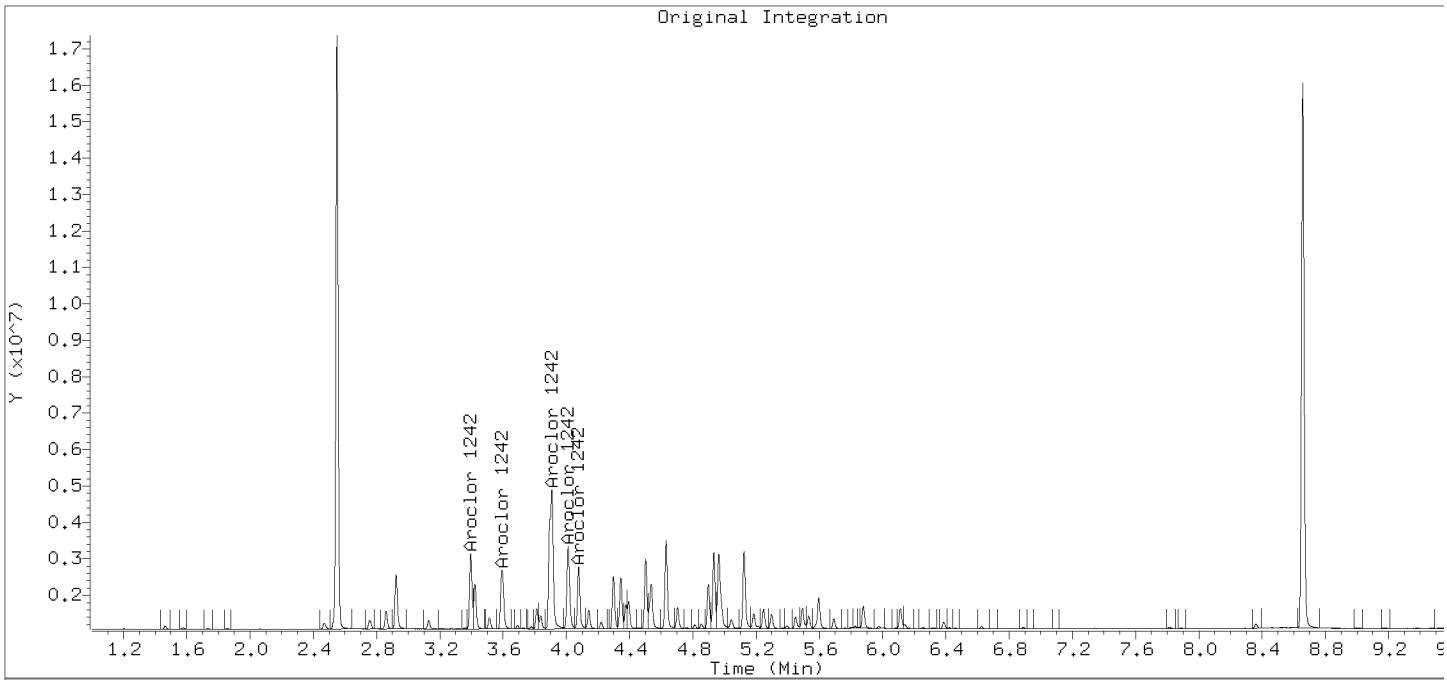
Operator: BLM

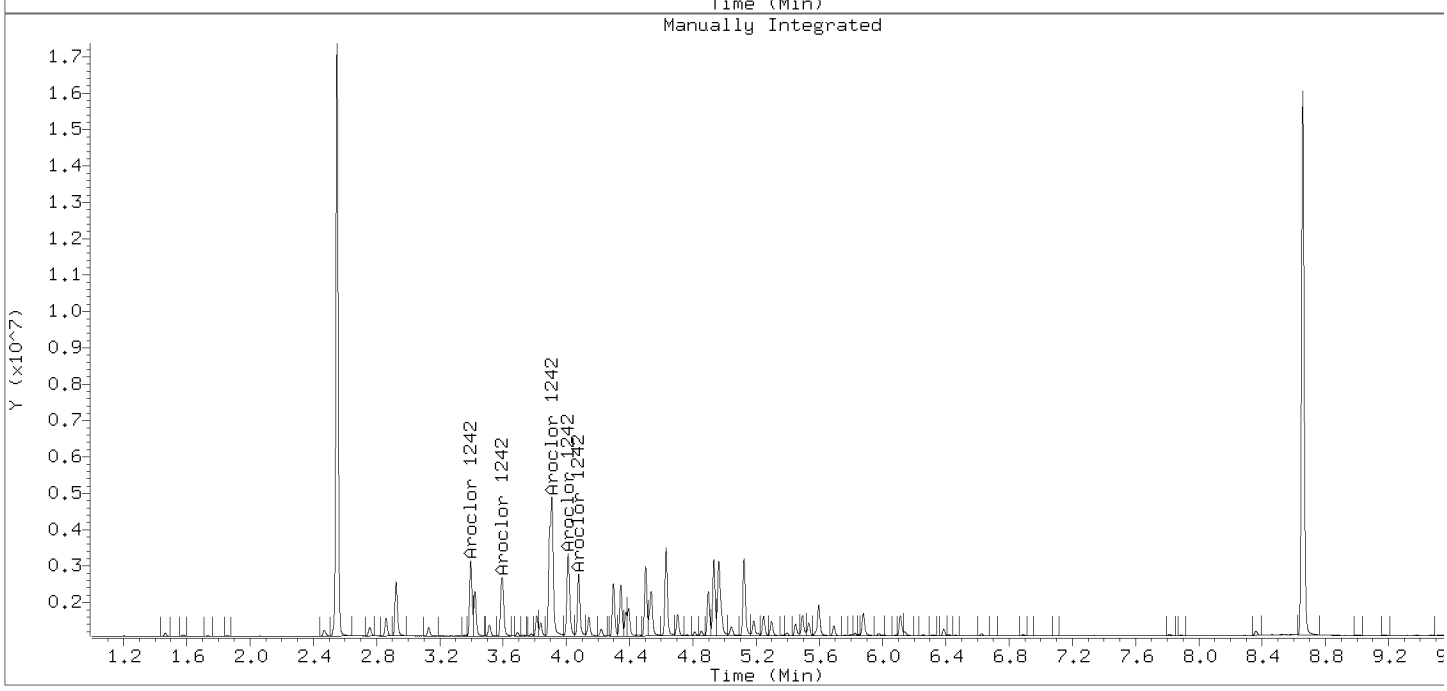
Column phase: ZB-1ms

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

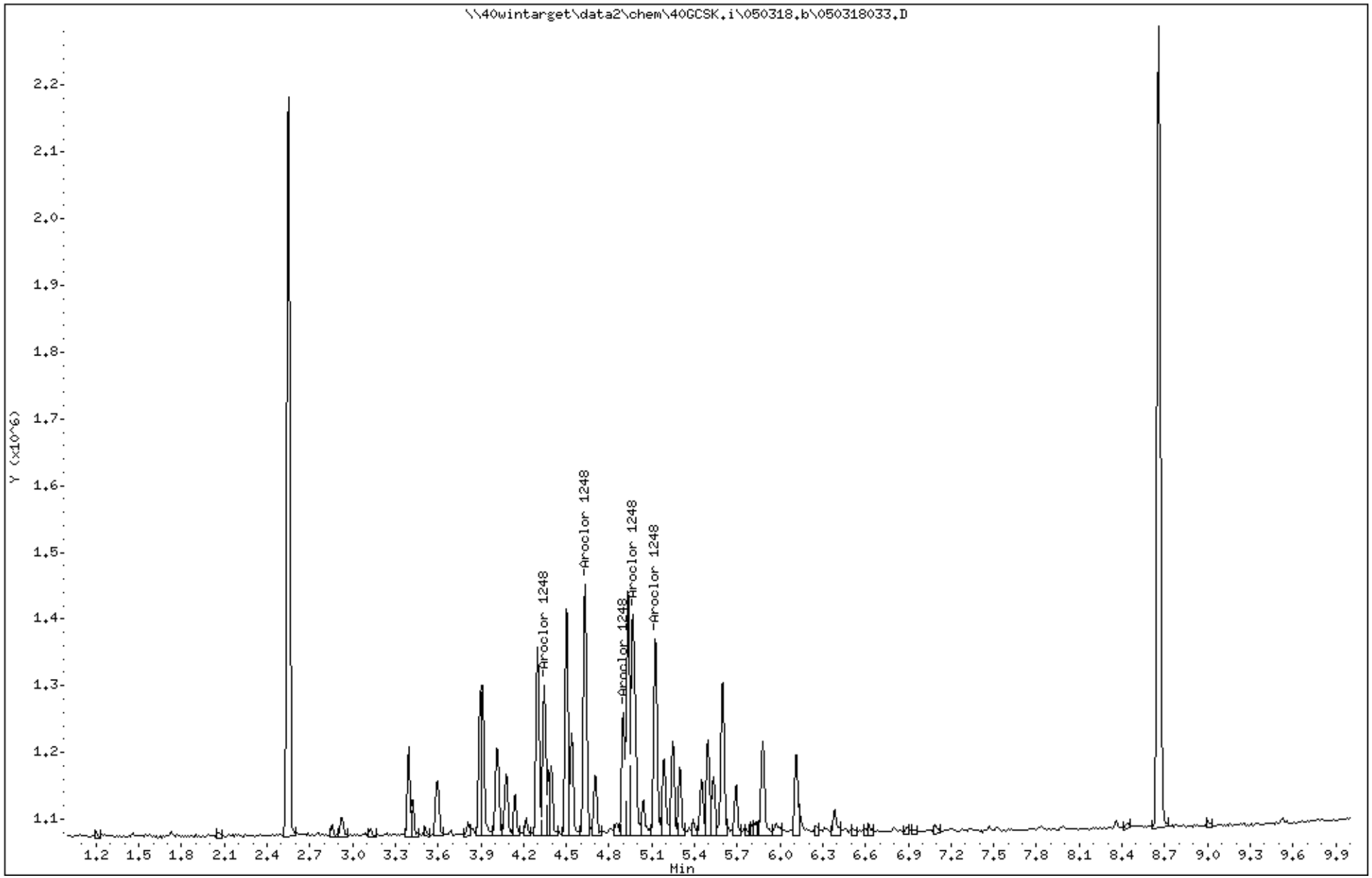
Instrument: 40GCSK.i

Sample Info: 1248-CAL1D, 188134:1

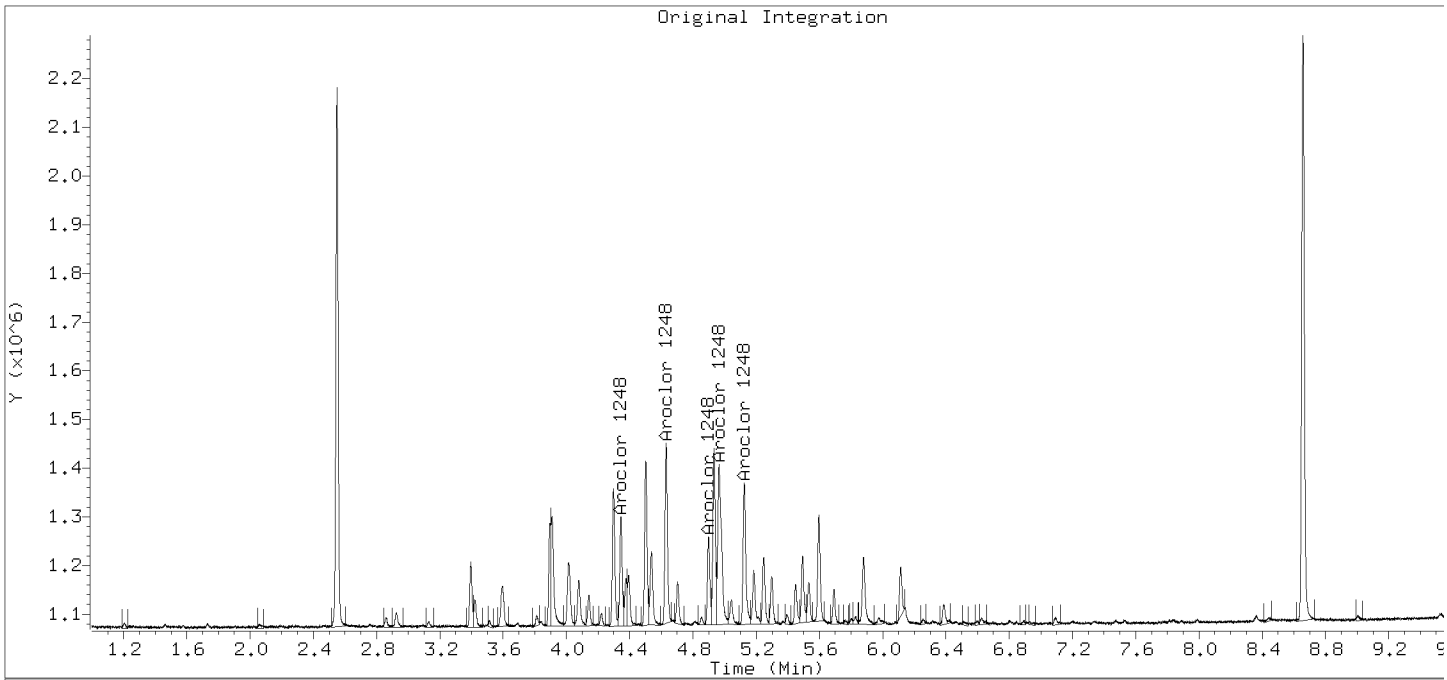
Operator: BLM

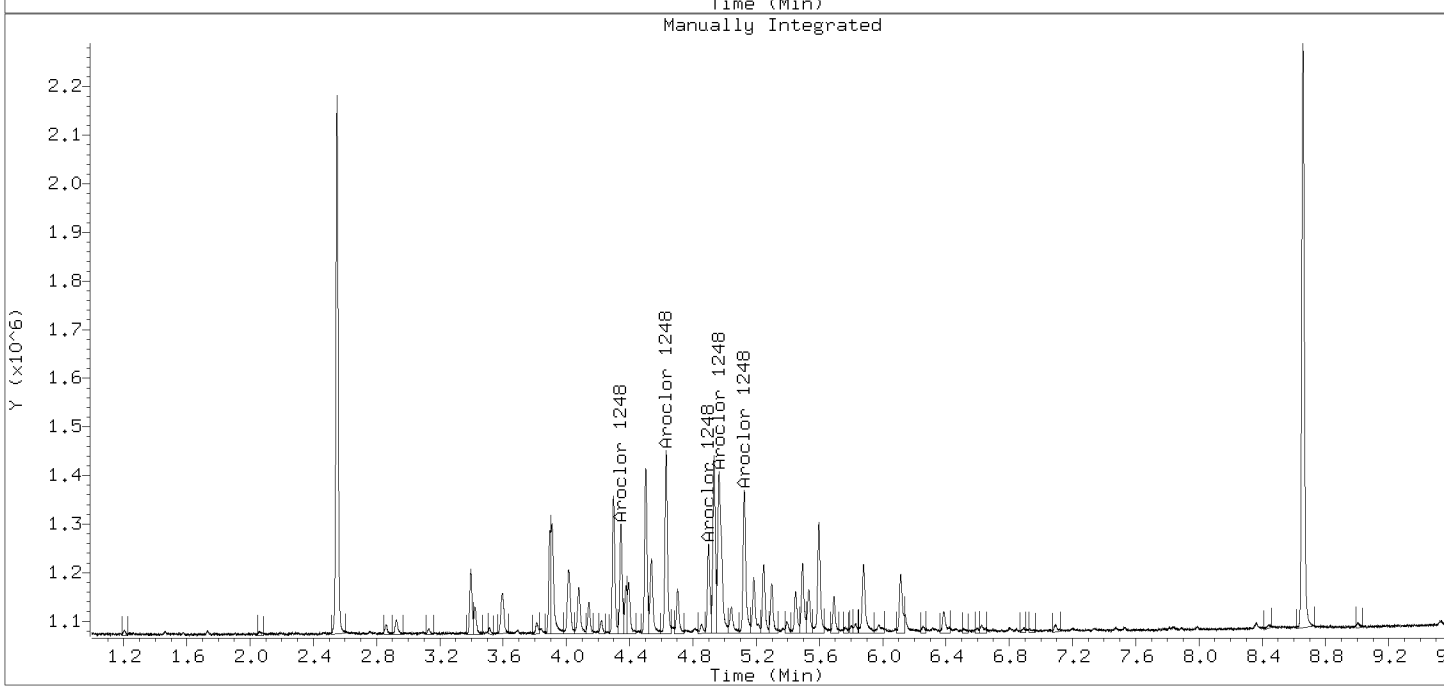
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D

Date : 03-MAY-2018 14:23

Client ID: 1248-CAL2D

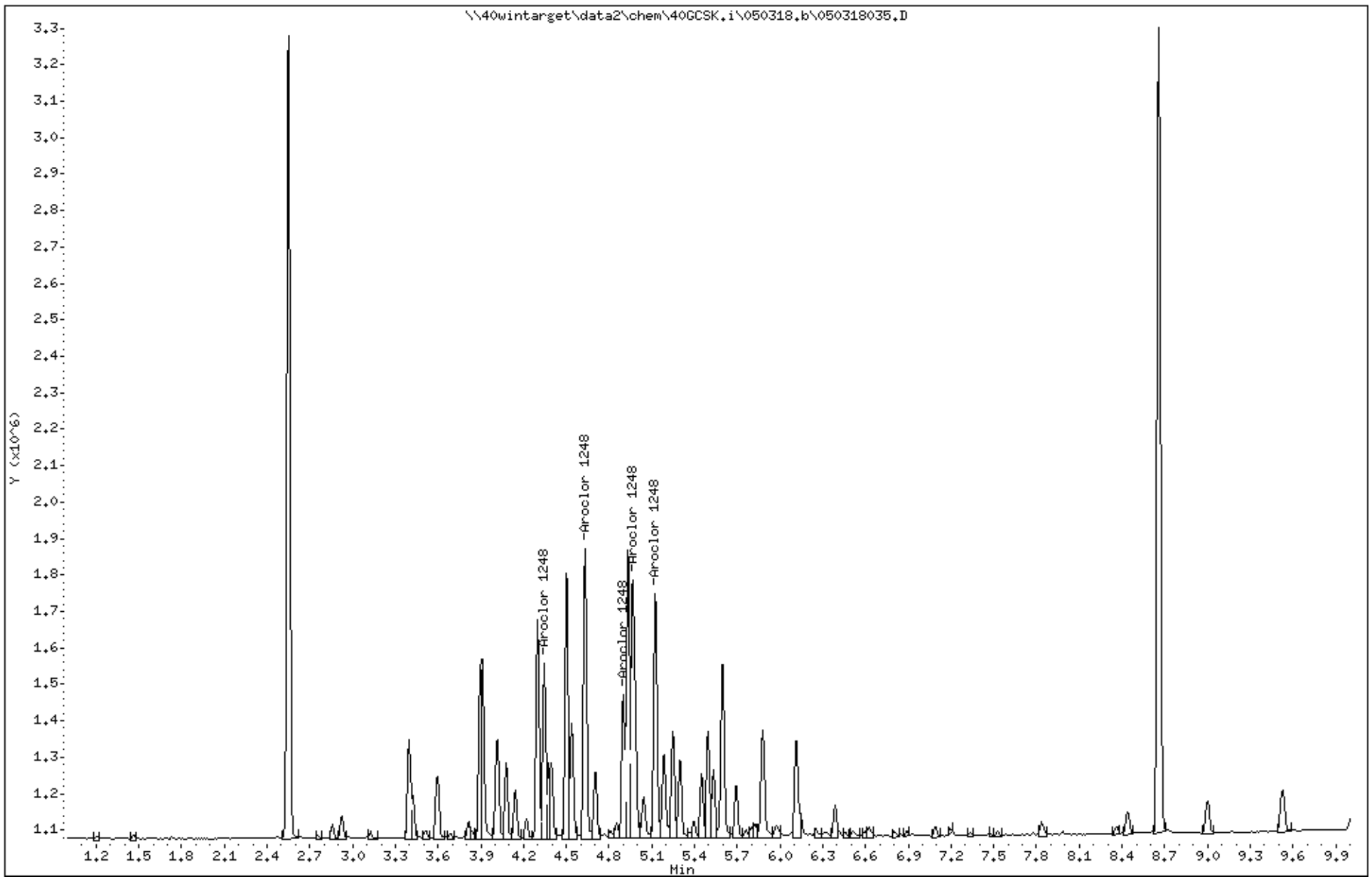
Instrument: 40GCSK.i

Sample Info: 1248-CAL2D, 185548:1

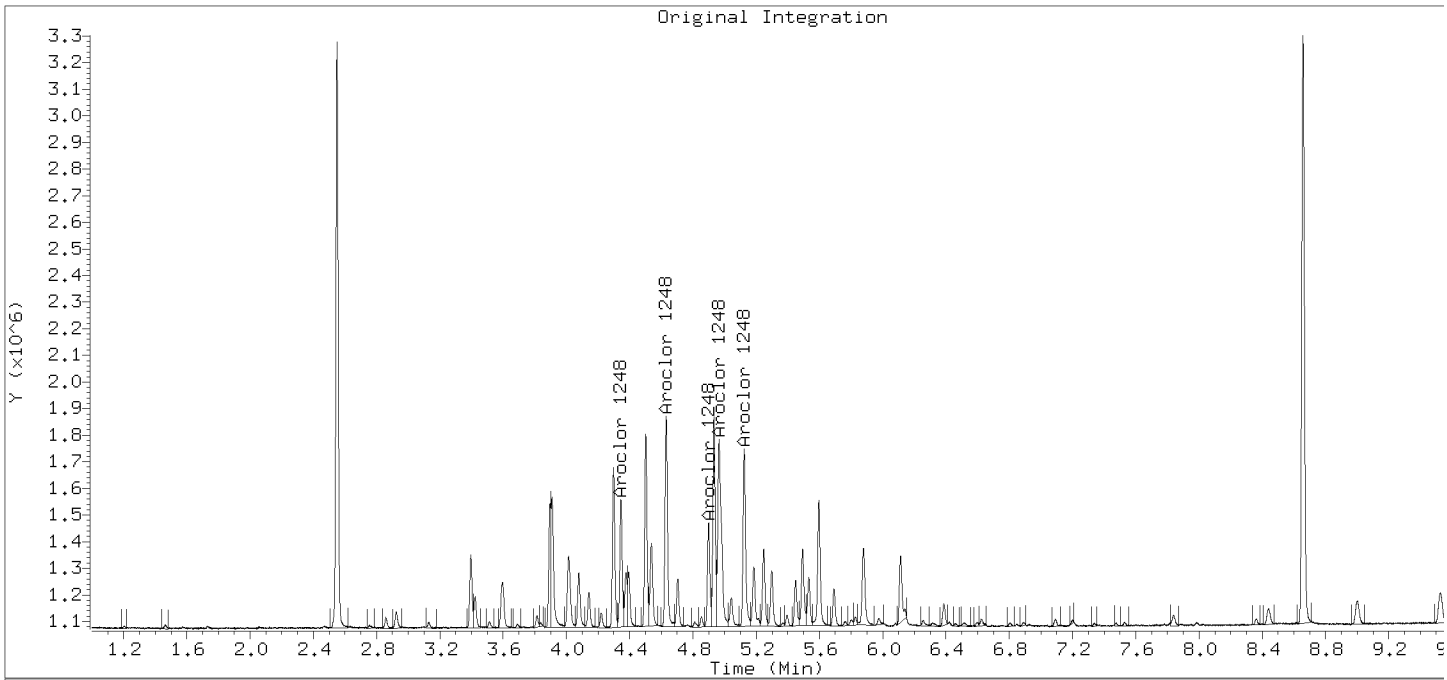
Operator: BLM

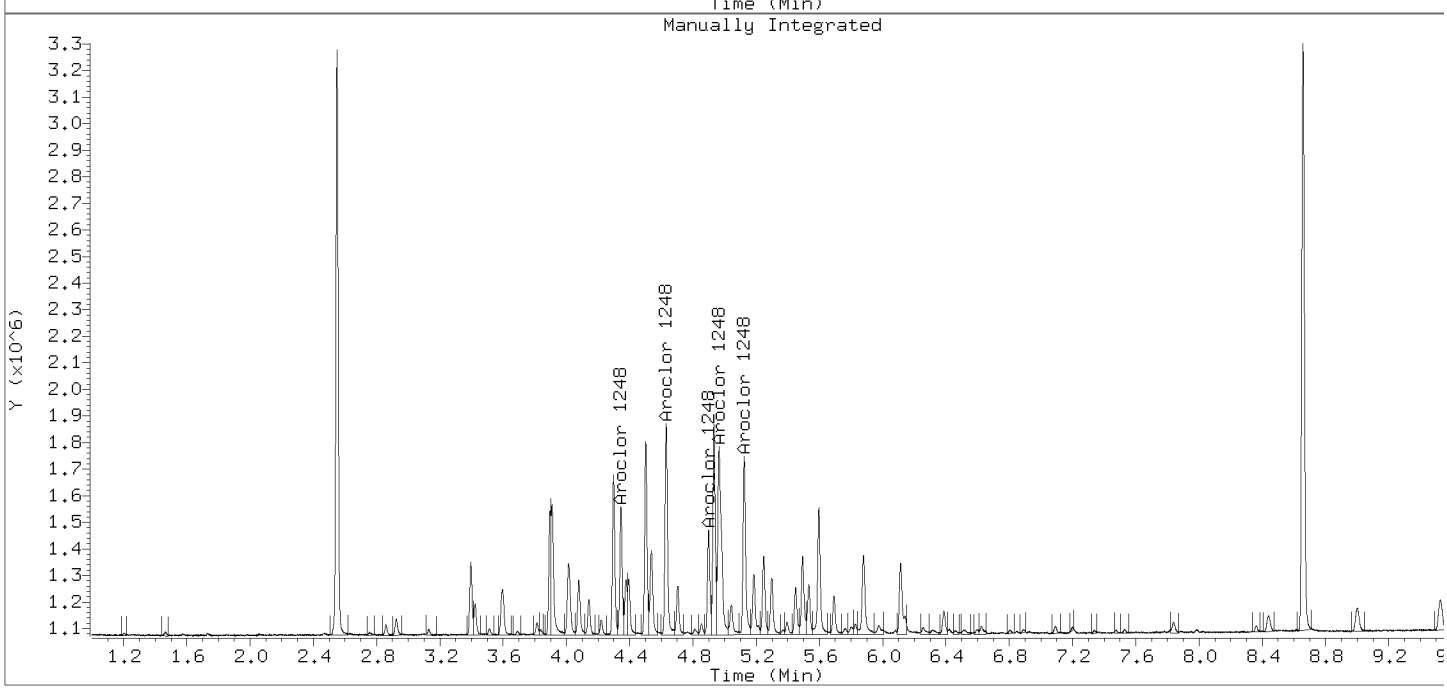
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

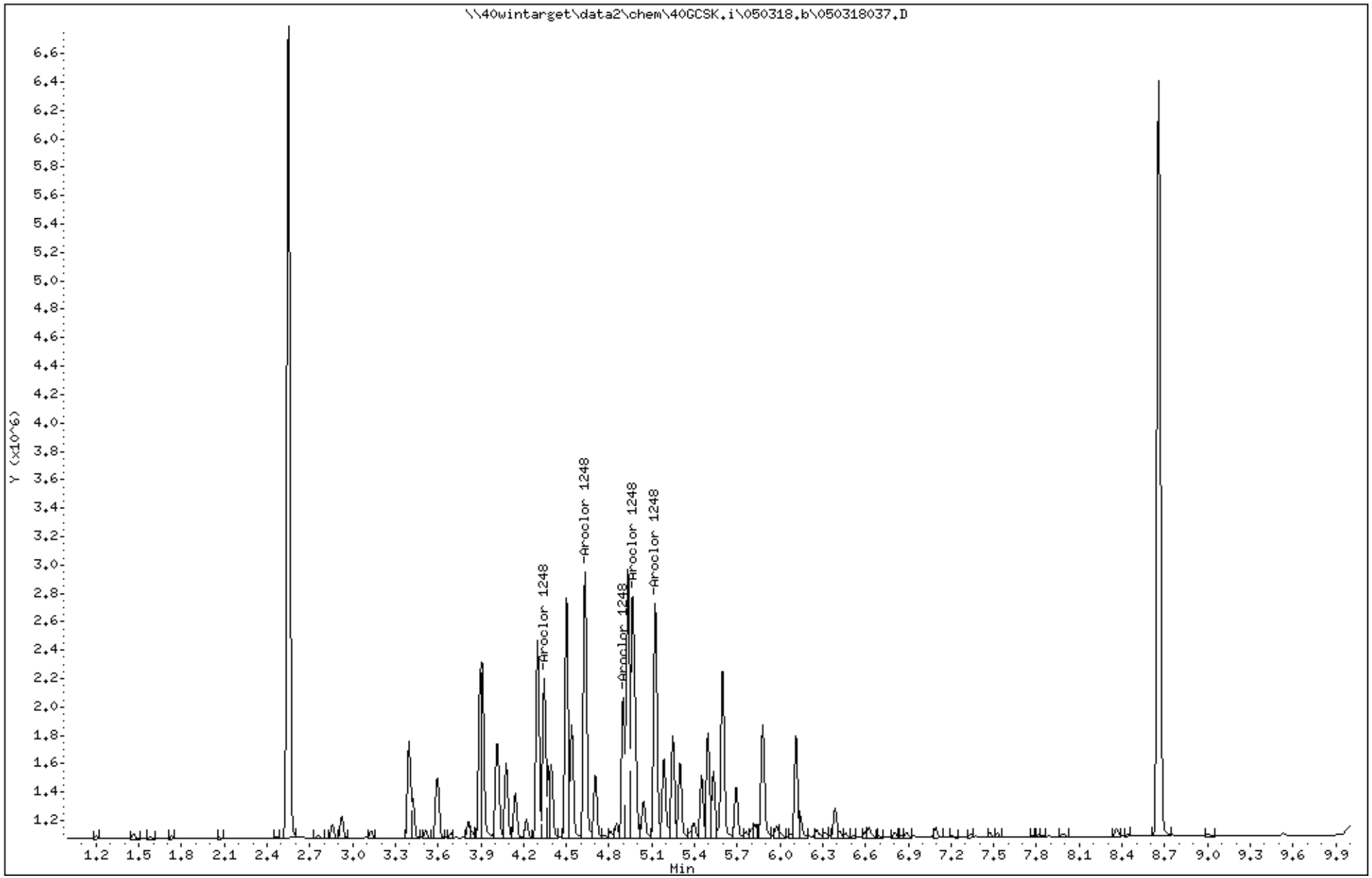
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Date : 03-MAY-2018 14:39
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSK.i

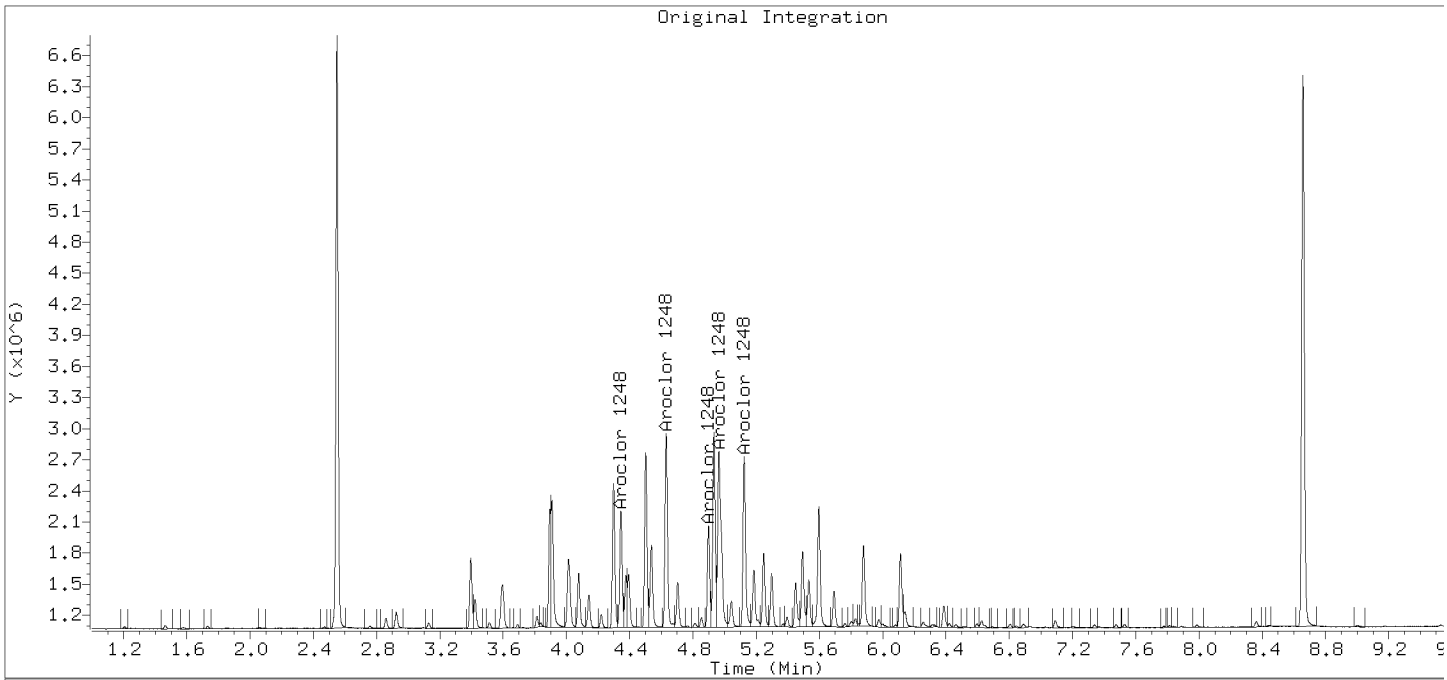
Operator: BLM

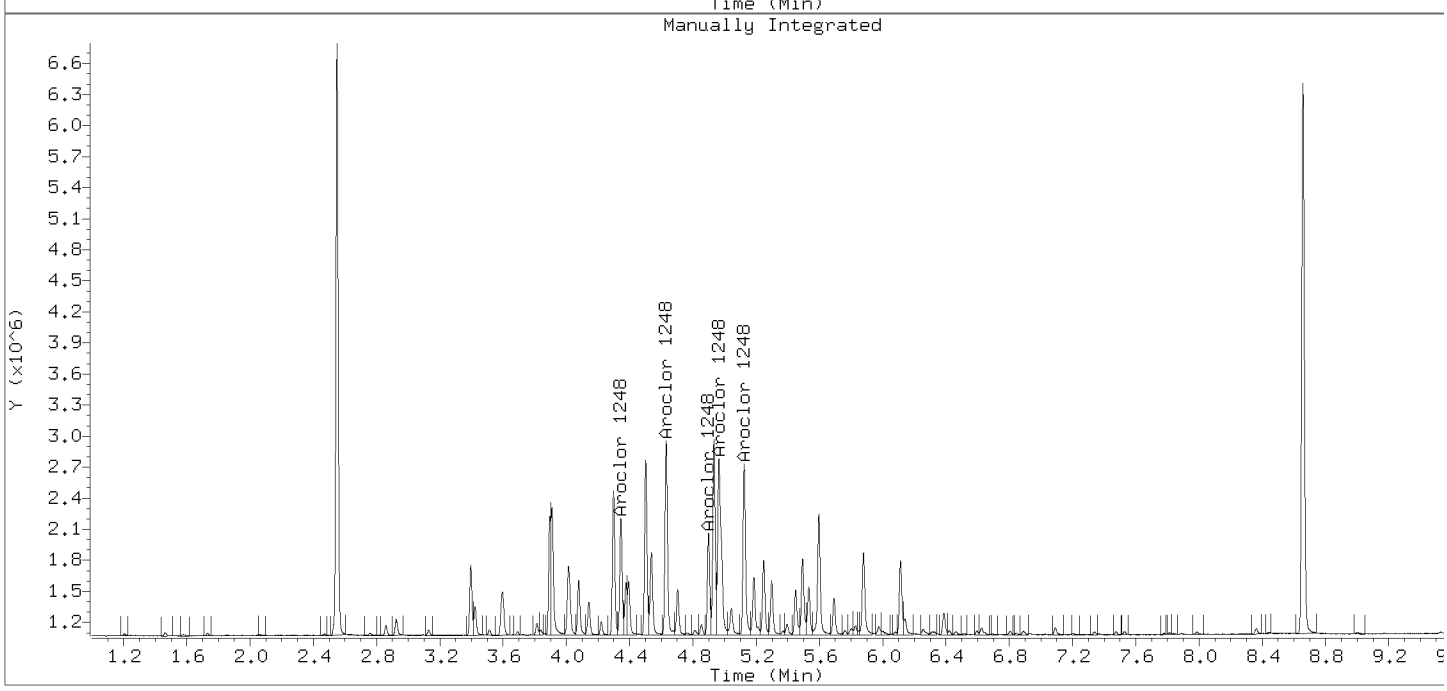
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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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

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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.

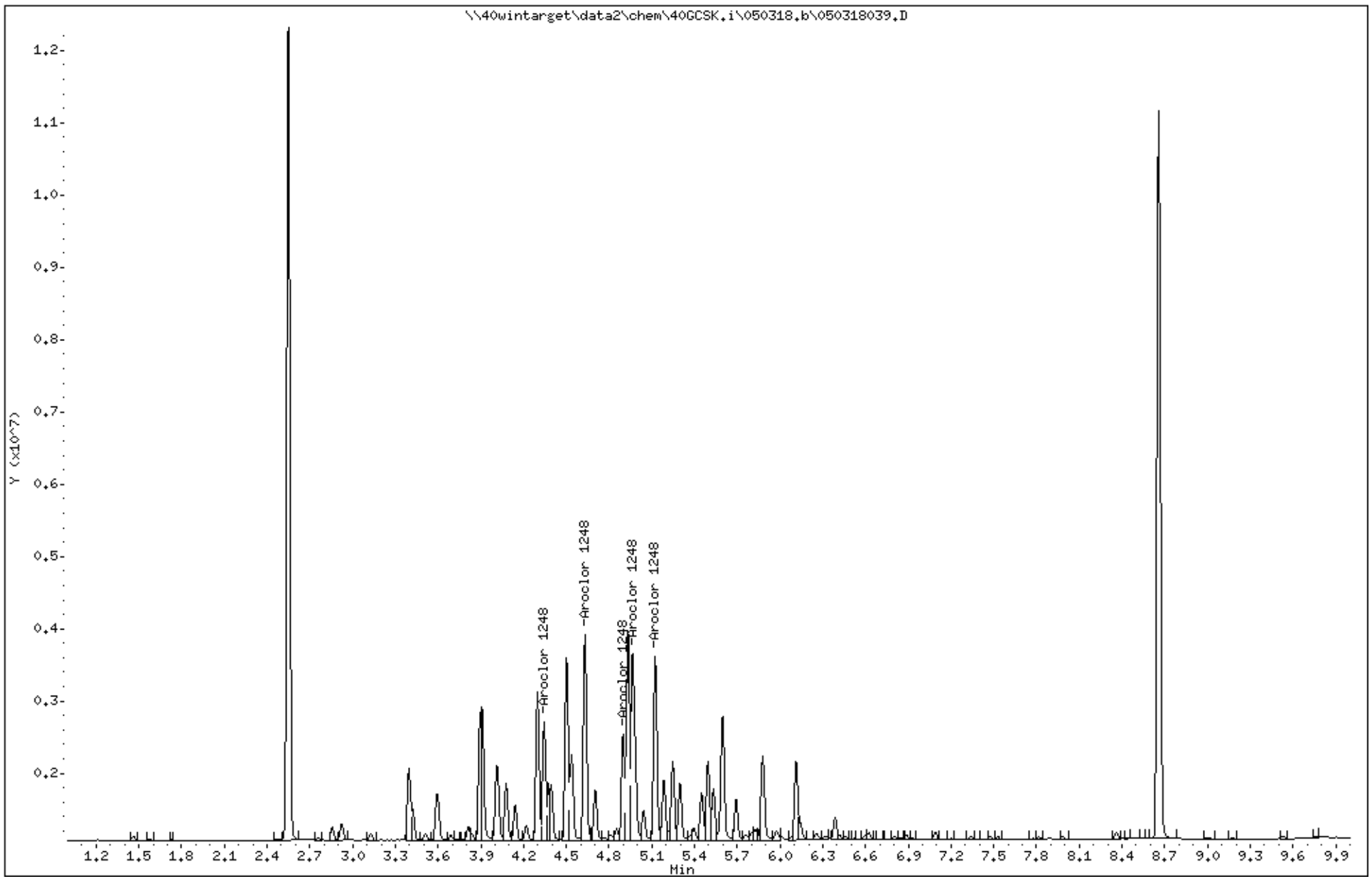
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Date : 03-MAY-2018 14:56
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSK.i

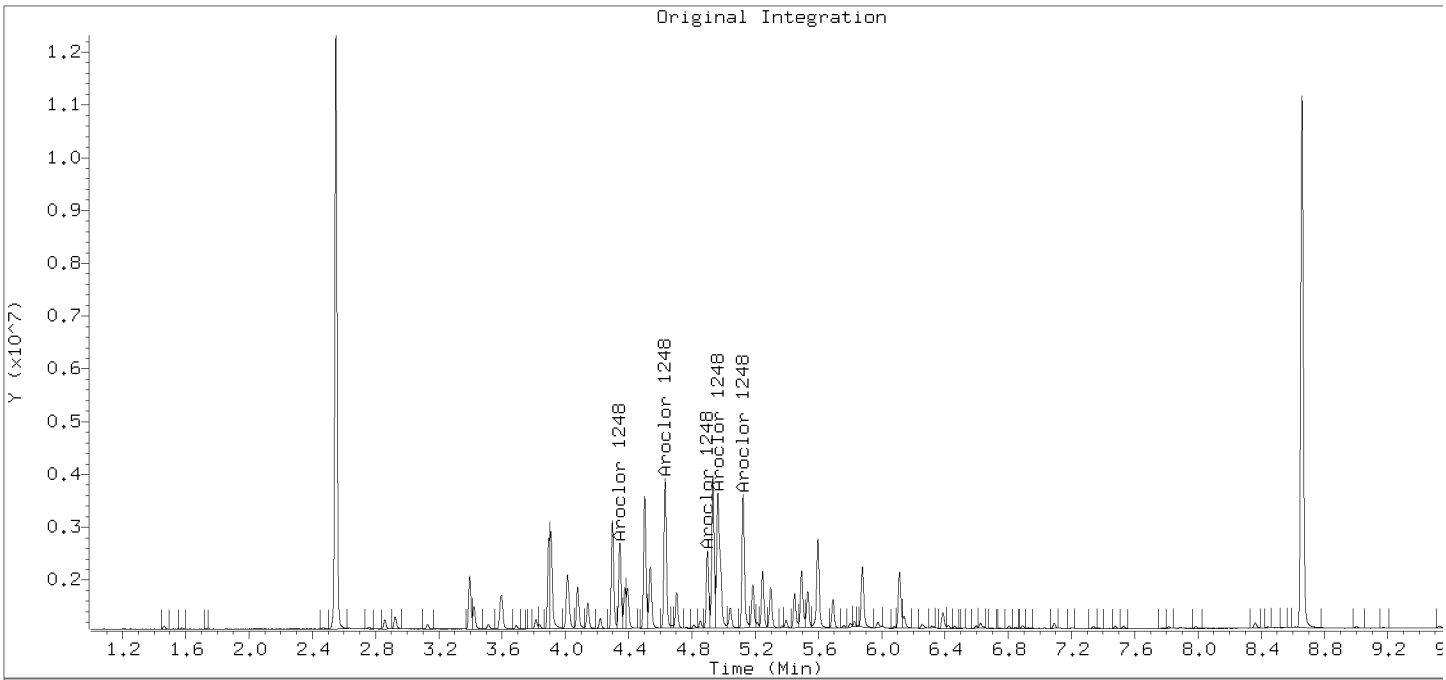
Operator: BLM

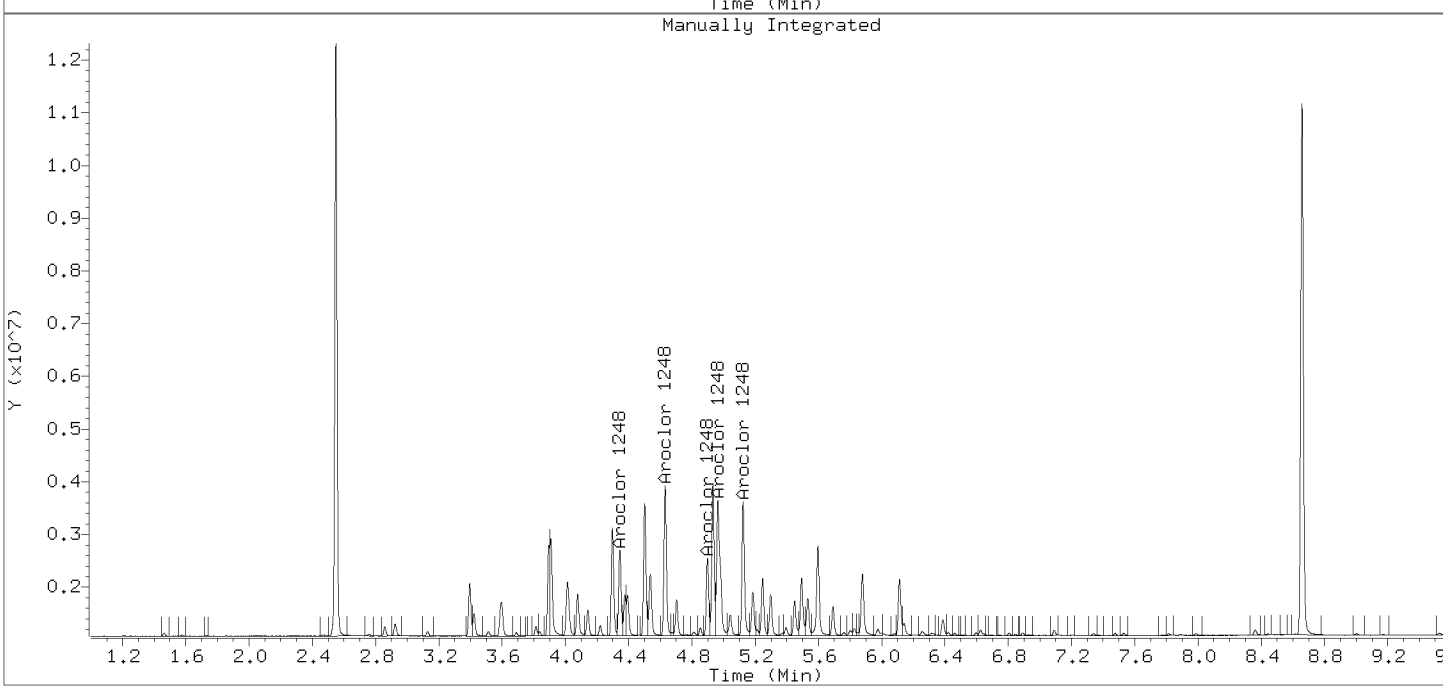
Column phase: ZB-1ms

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

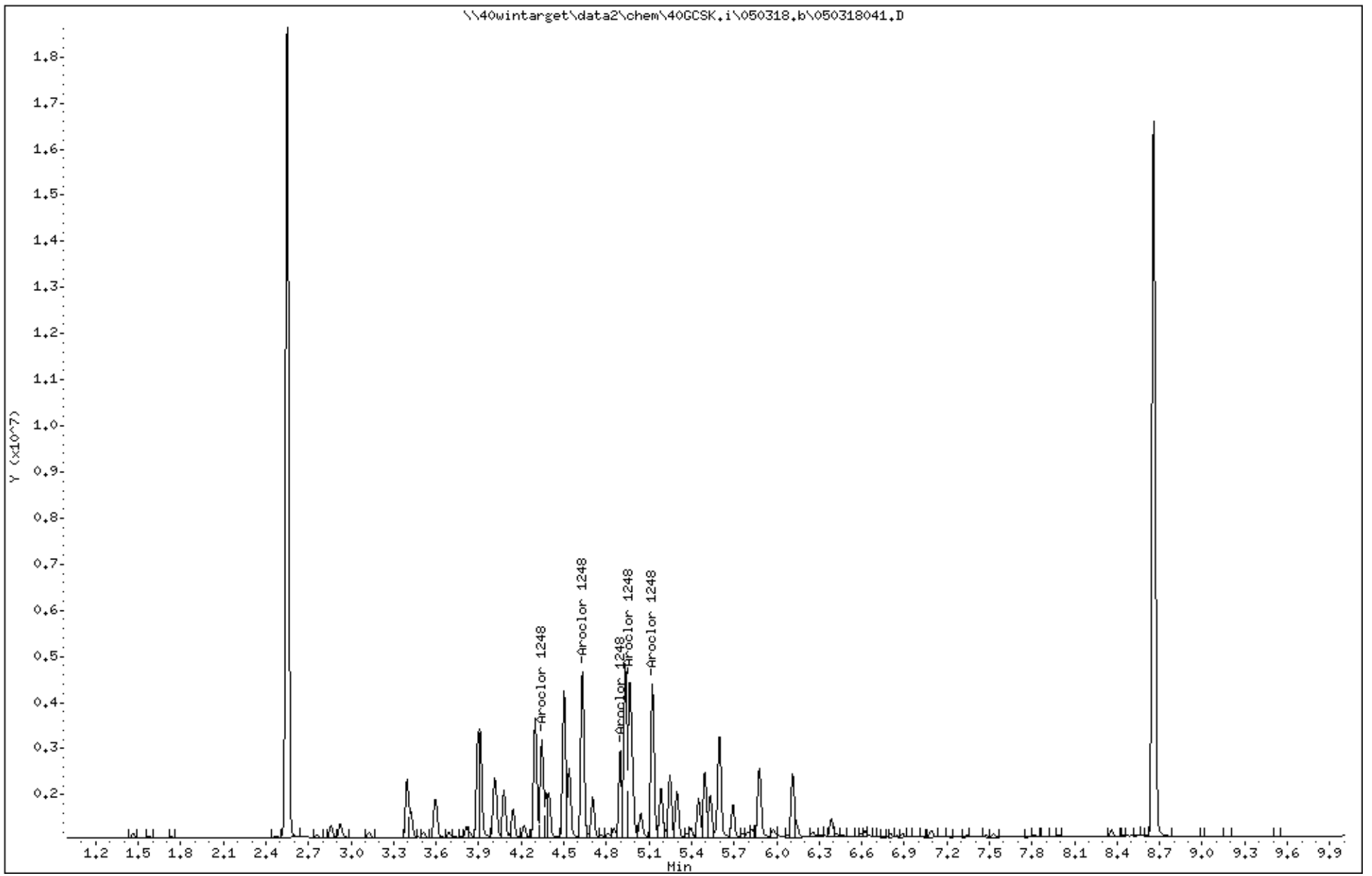
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

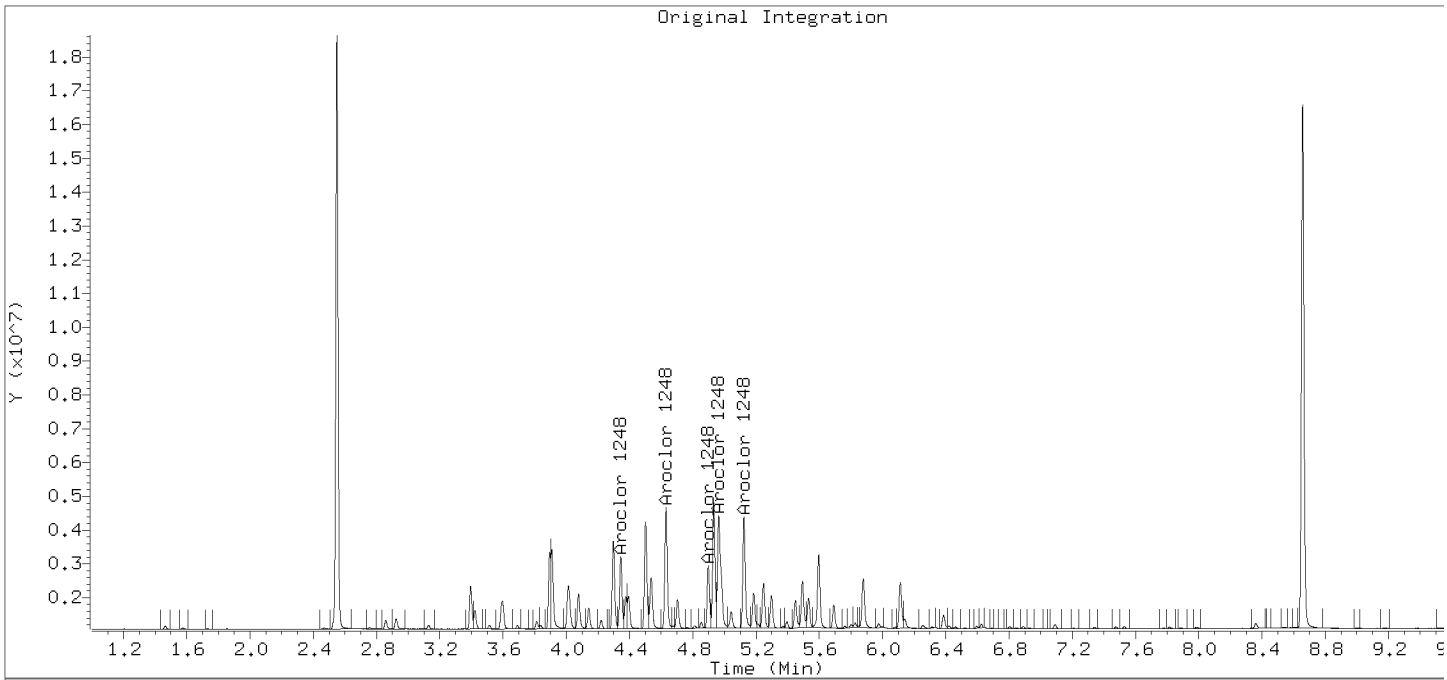
Operator: BLM

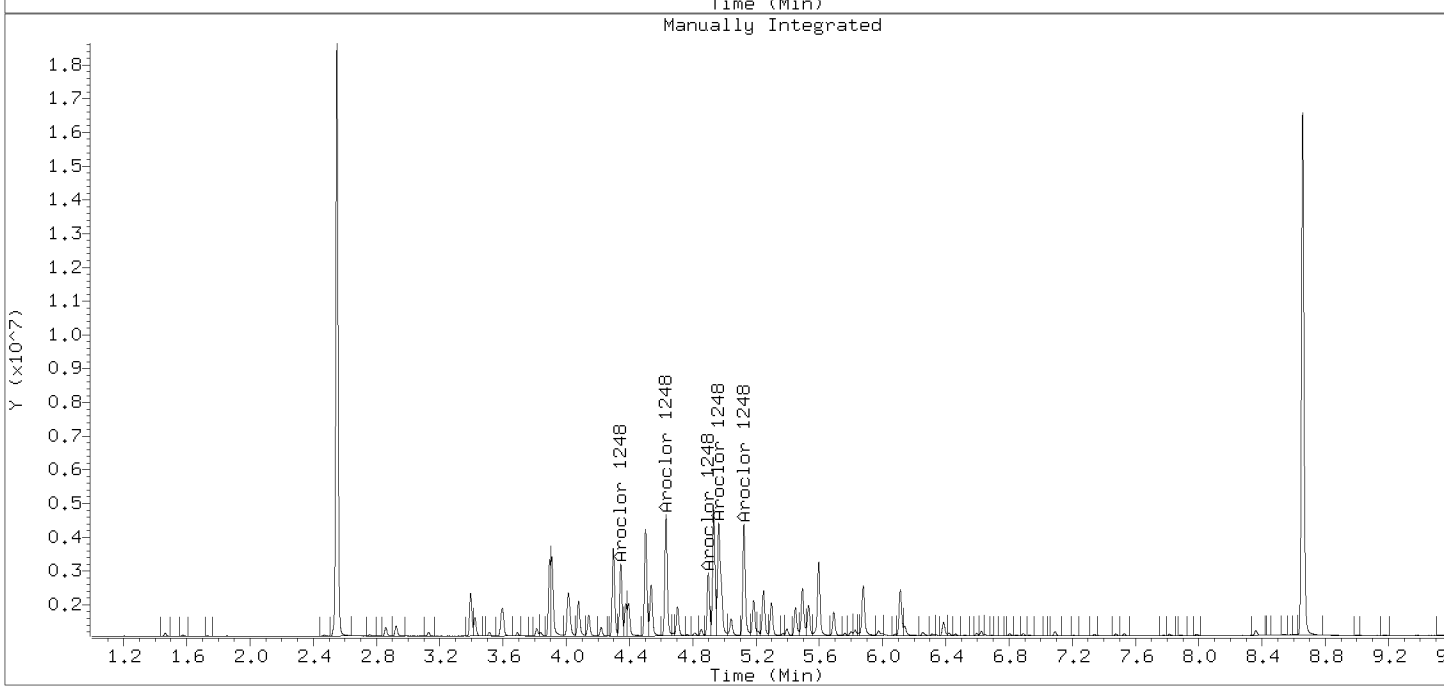
Column phase: ZB-1ms

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

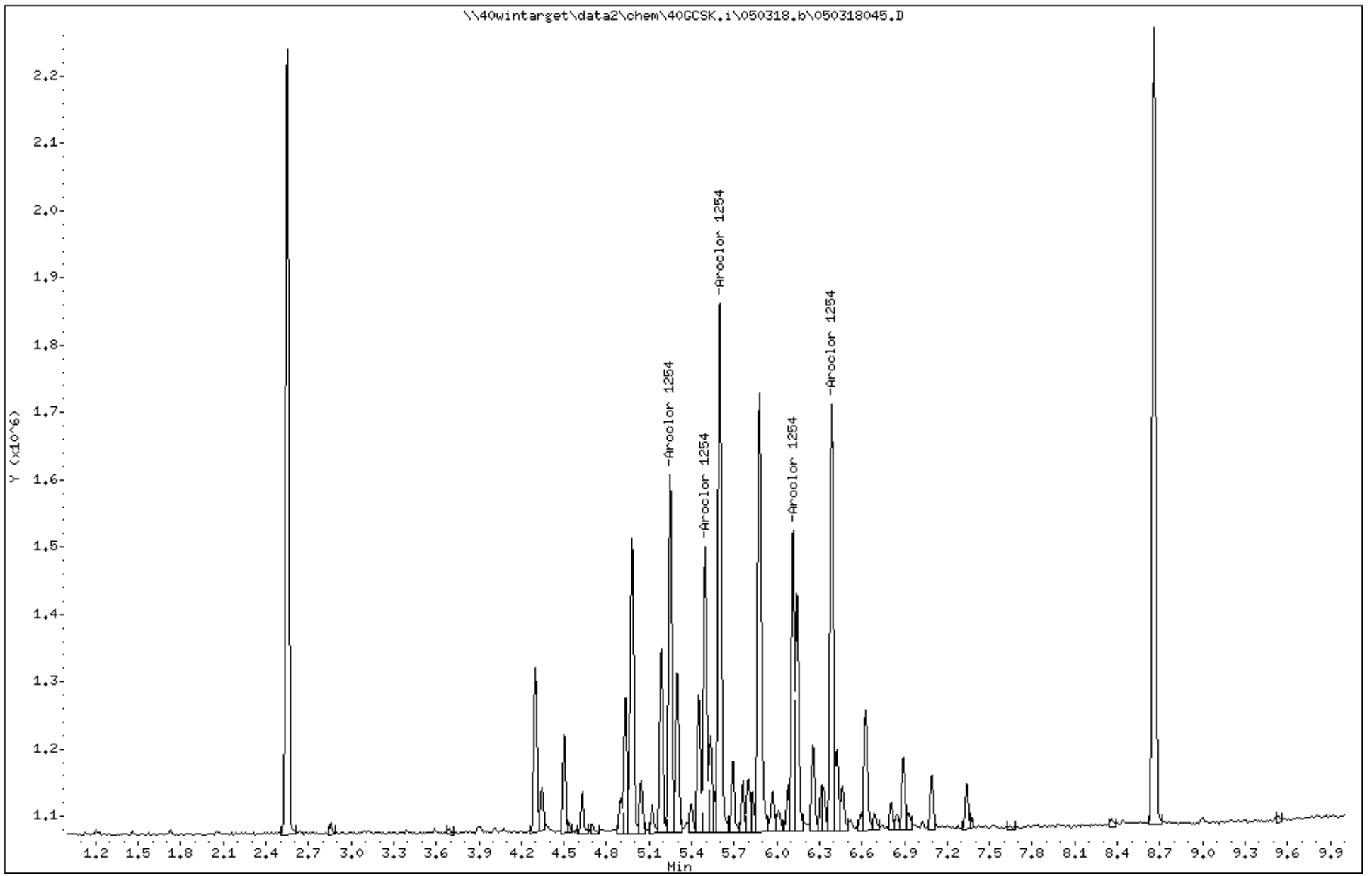
Instrument: 40GCSK.i

Sample Info: 1254-CAL1C, 188135:1

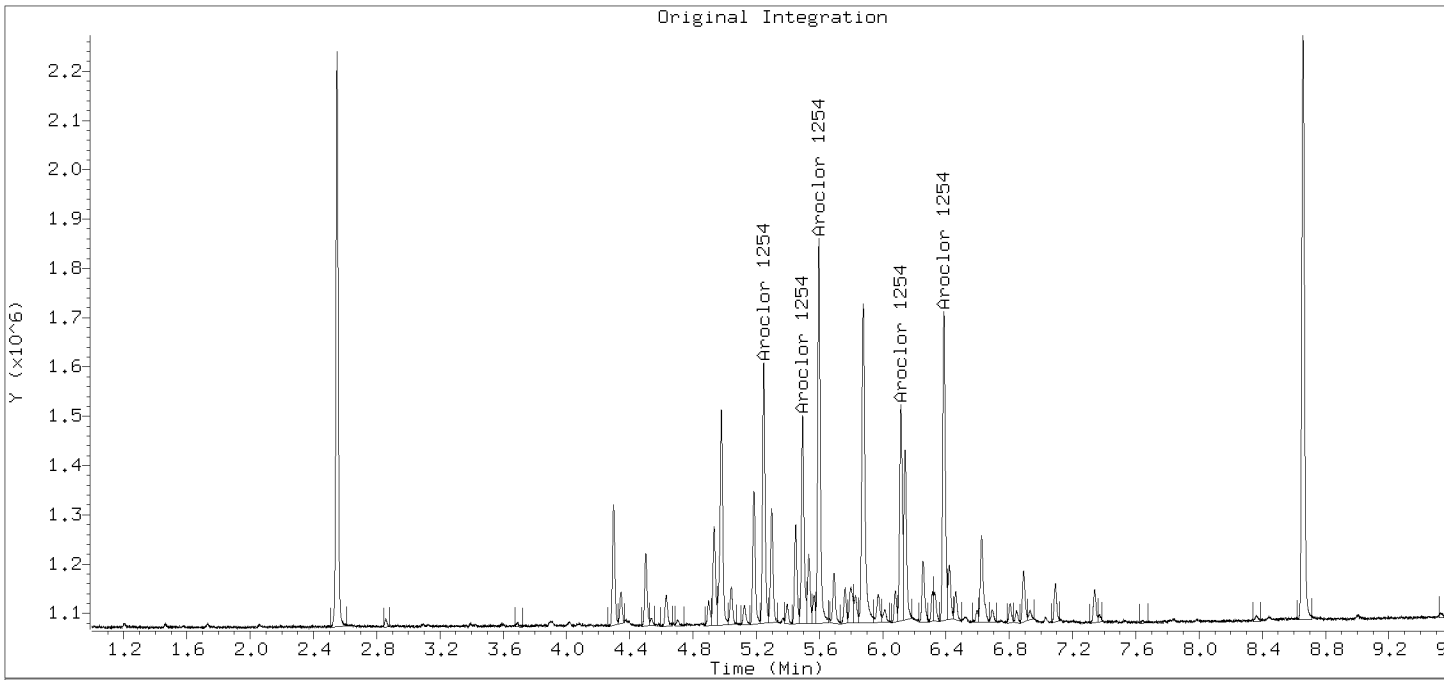
Operator: BLM

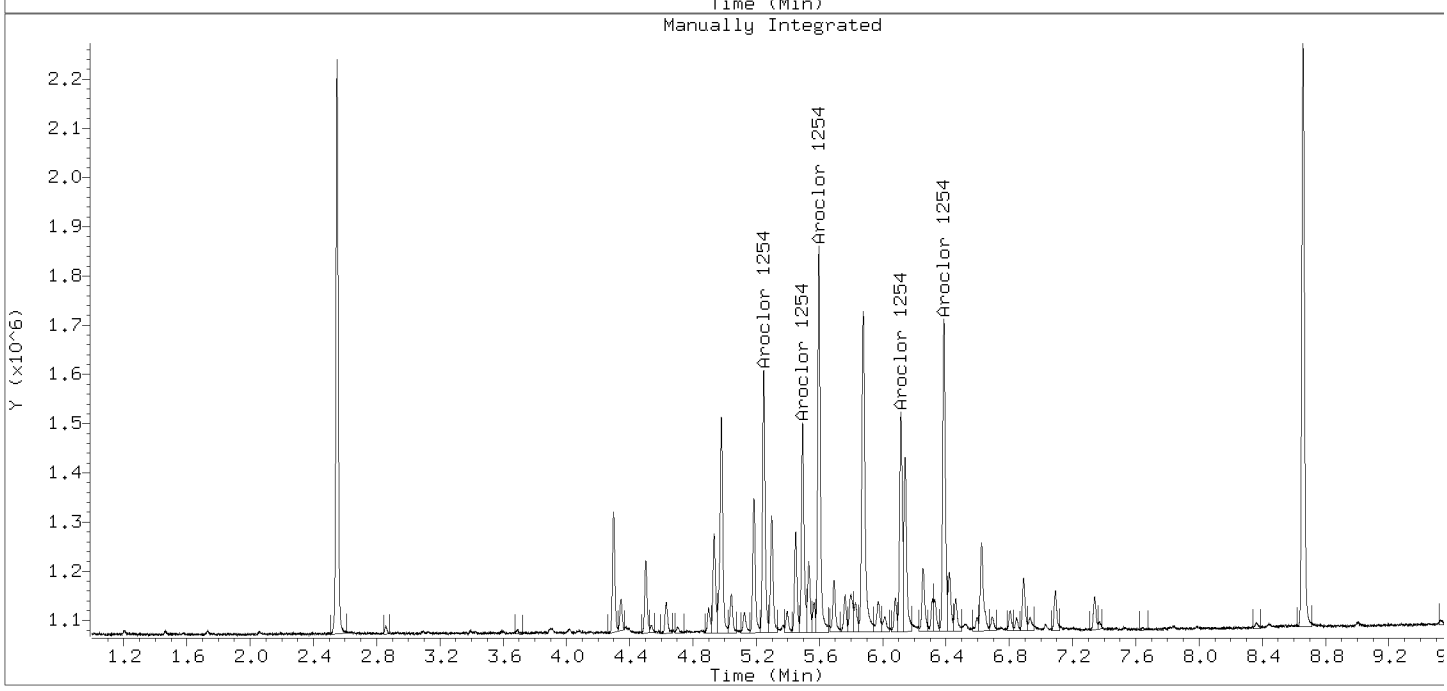
Column phase: ZB-1ms

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

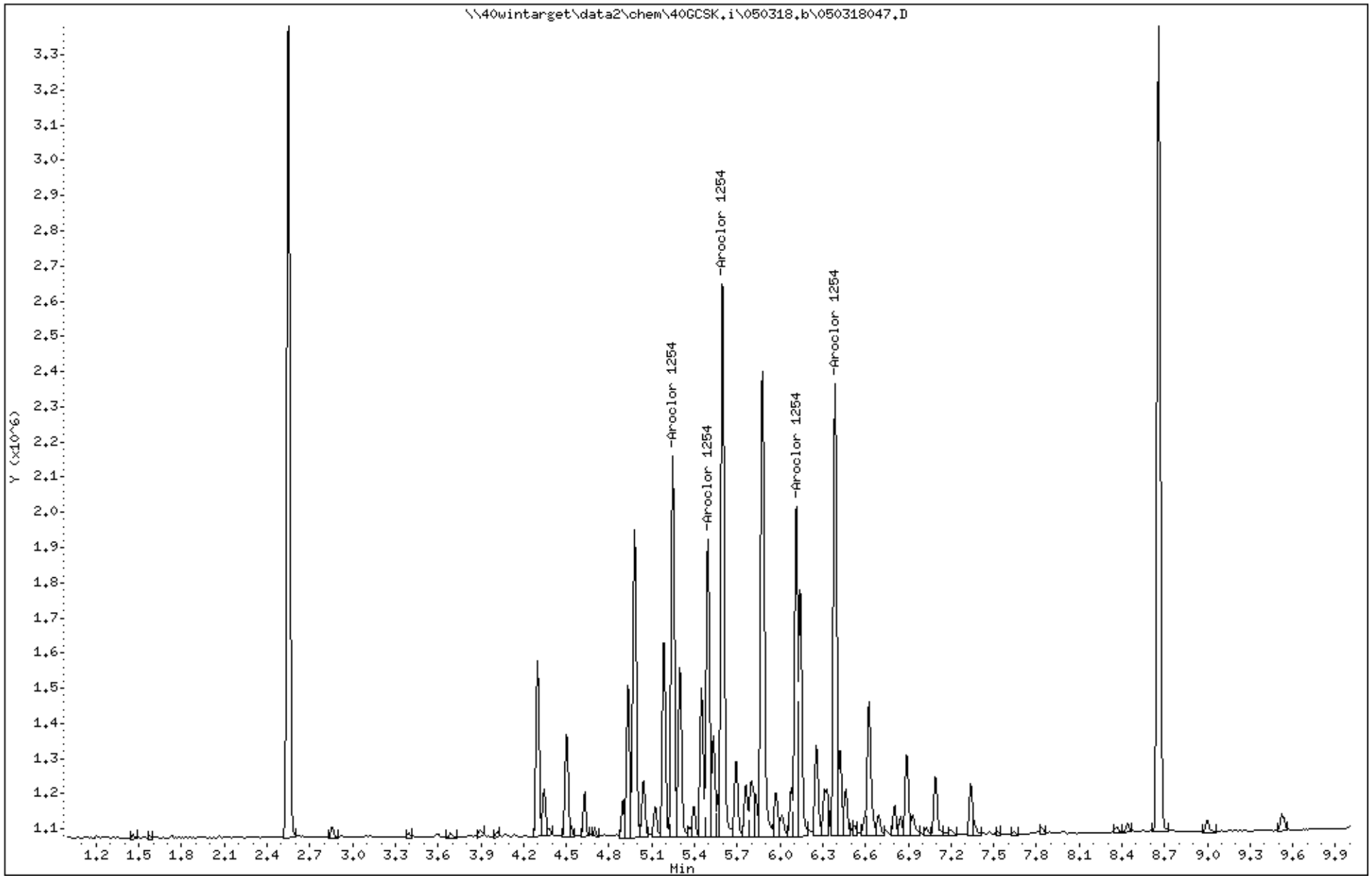
Instrument: 40GCSK.i

Sample Info: 1254-CAL2C, 185553:1

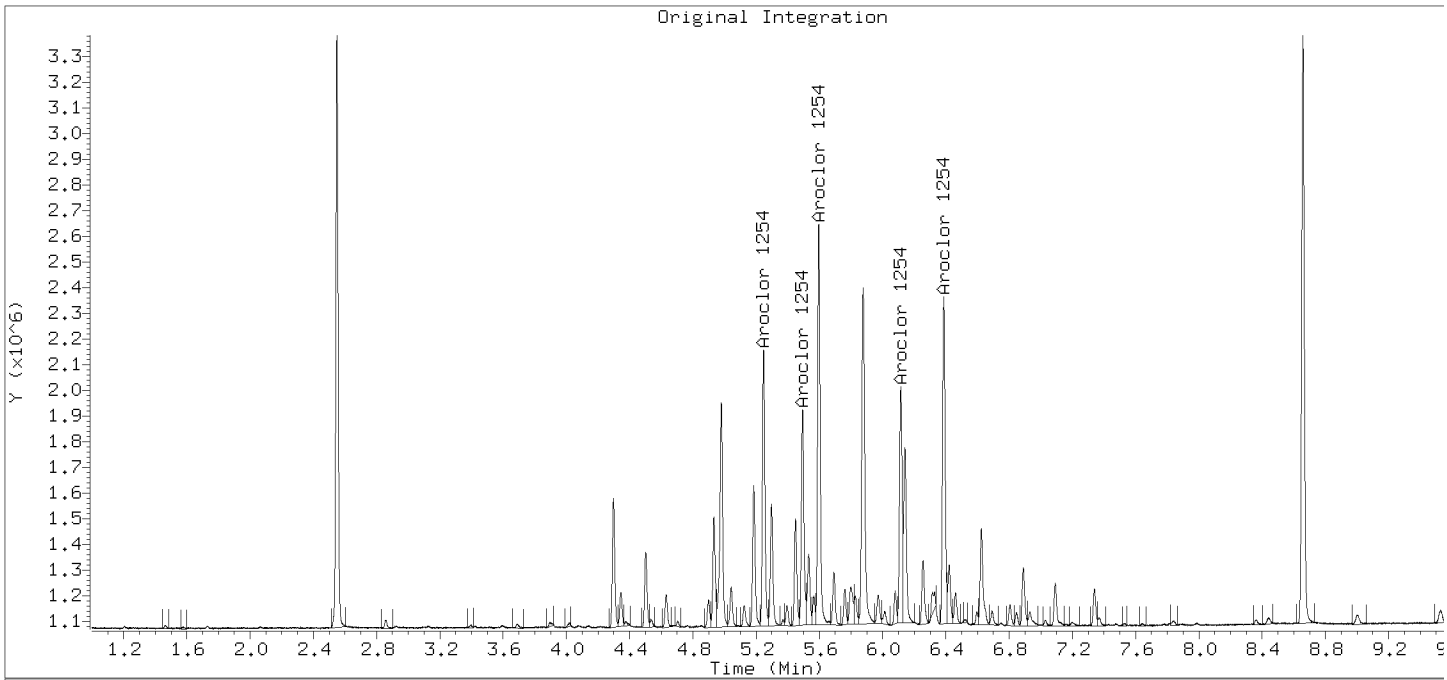
Operator: BLM

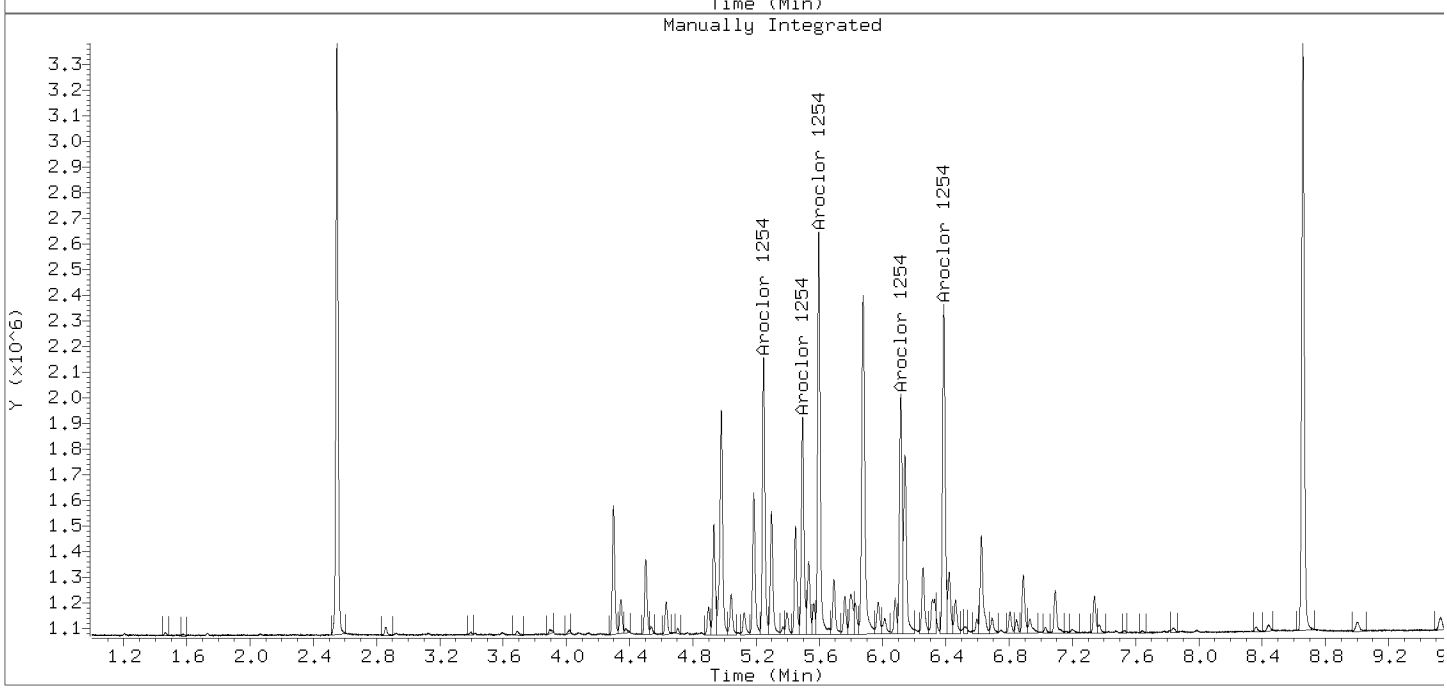
Column phase: ZB-1ms

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

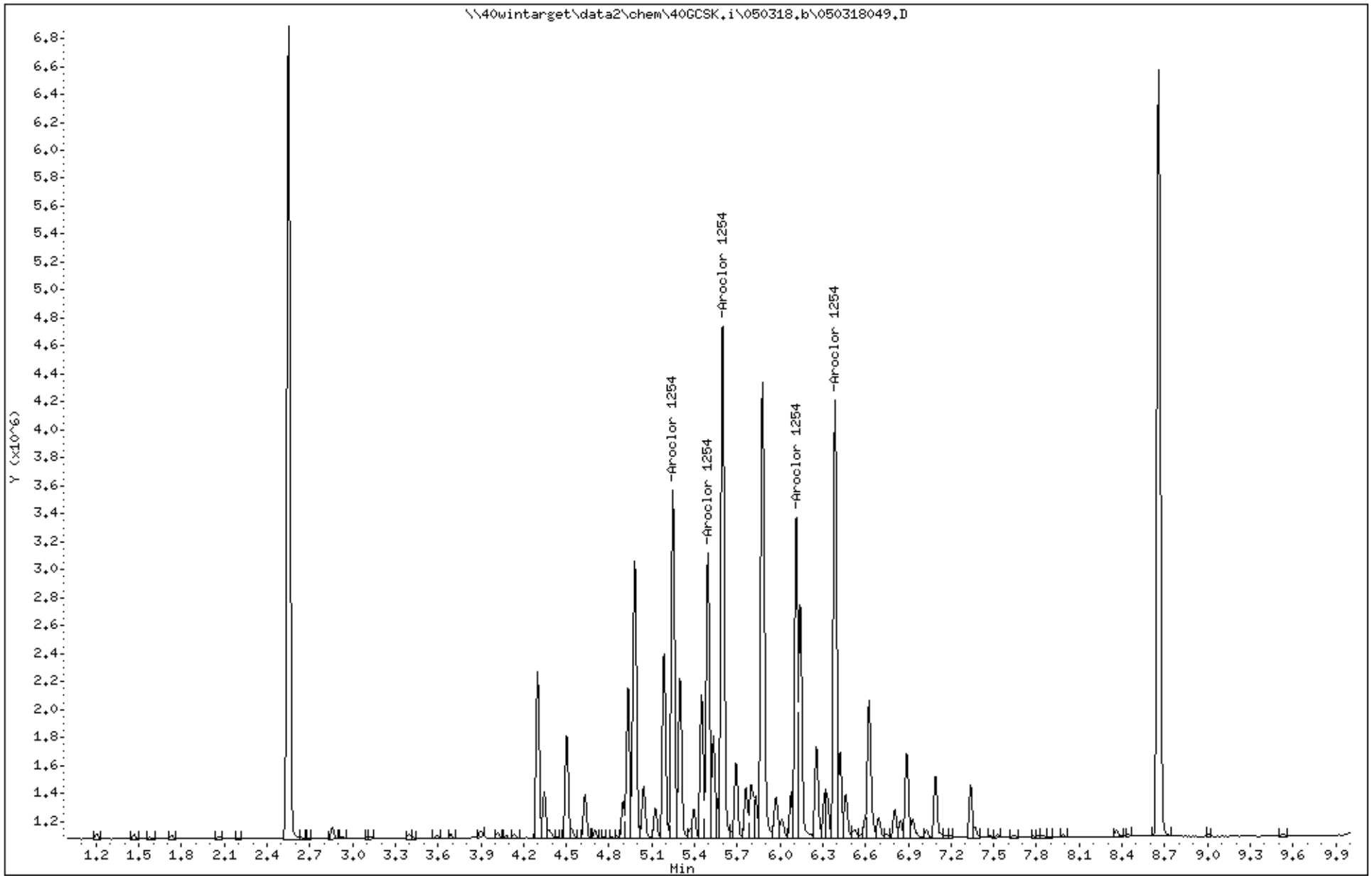
M - Compound response manually integrated.

Review Codes Legend

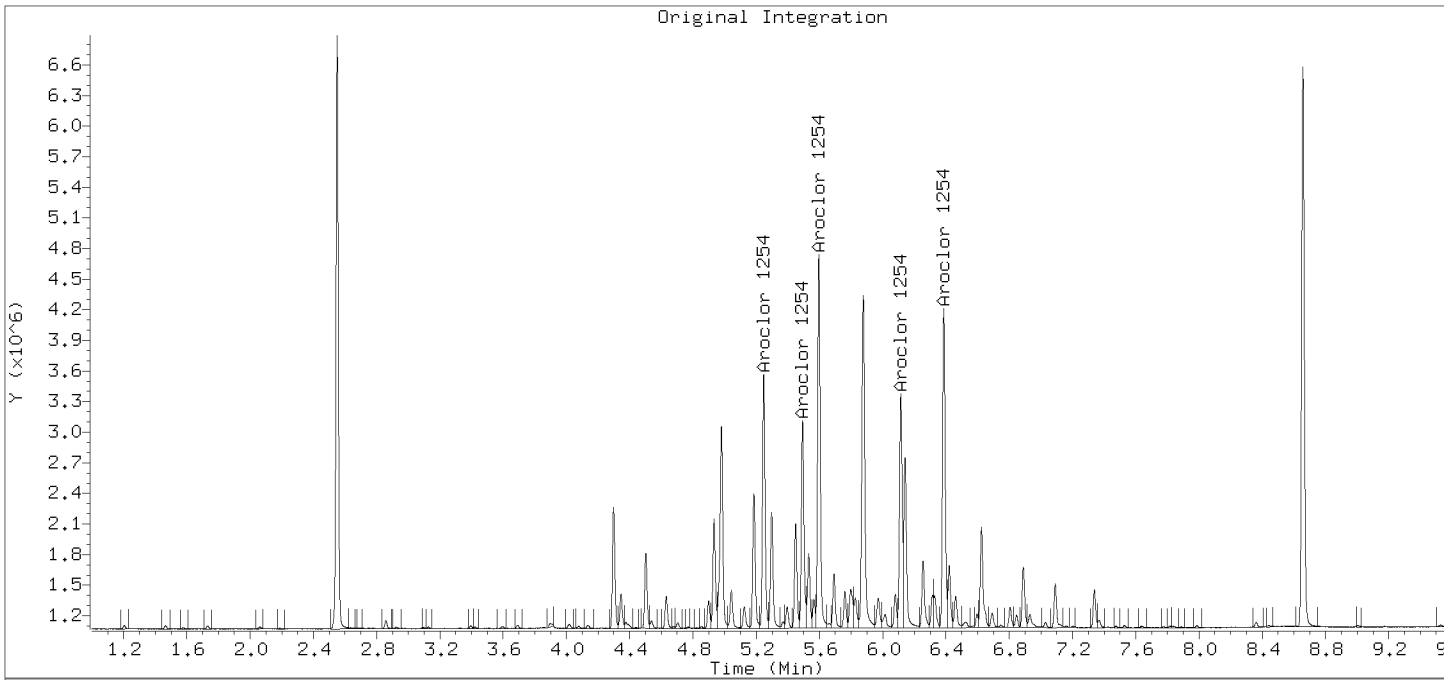
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

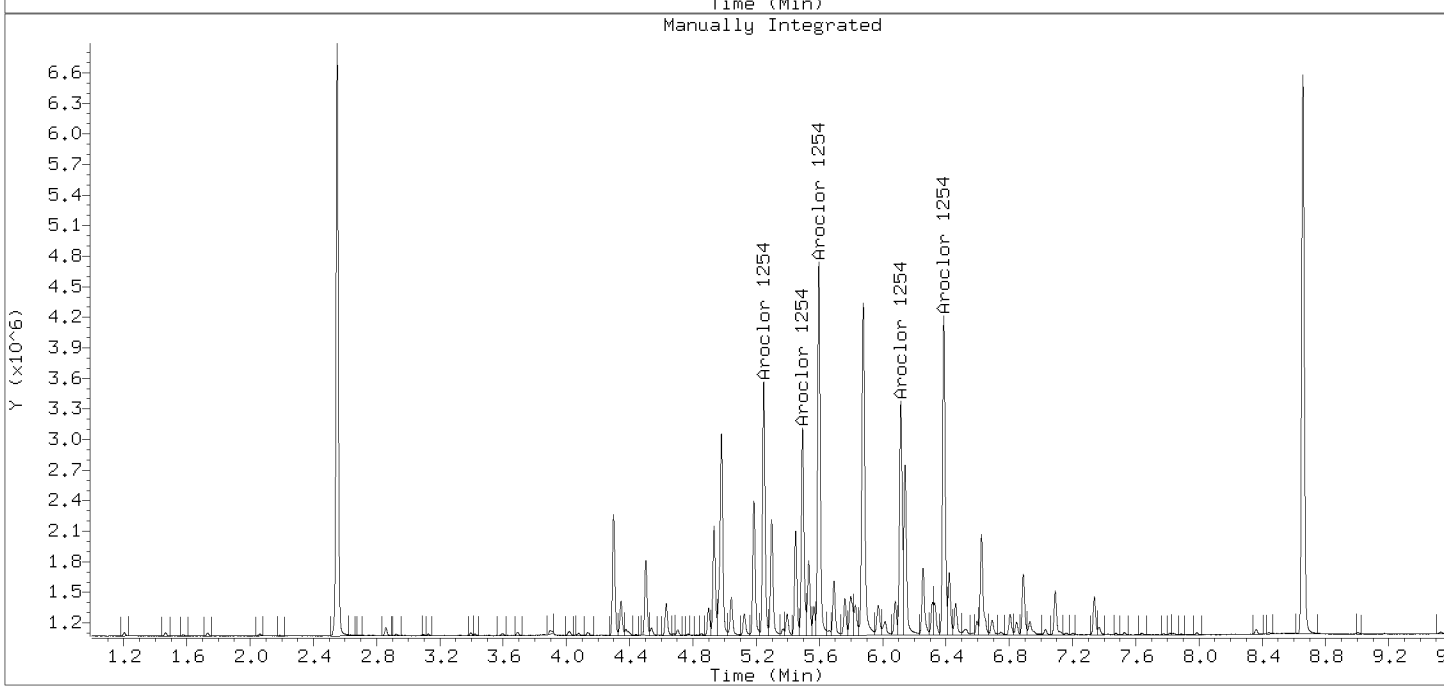
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D
Date : 03-MAY-2018 16:16
Client ID: 1254-CAL3C
Sample Info: 1254-CAL3C, 185554:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 16:33

Client ID: 1254-CAL4C

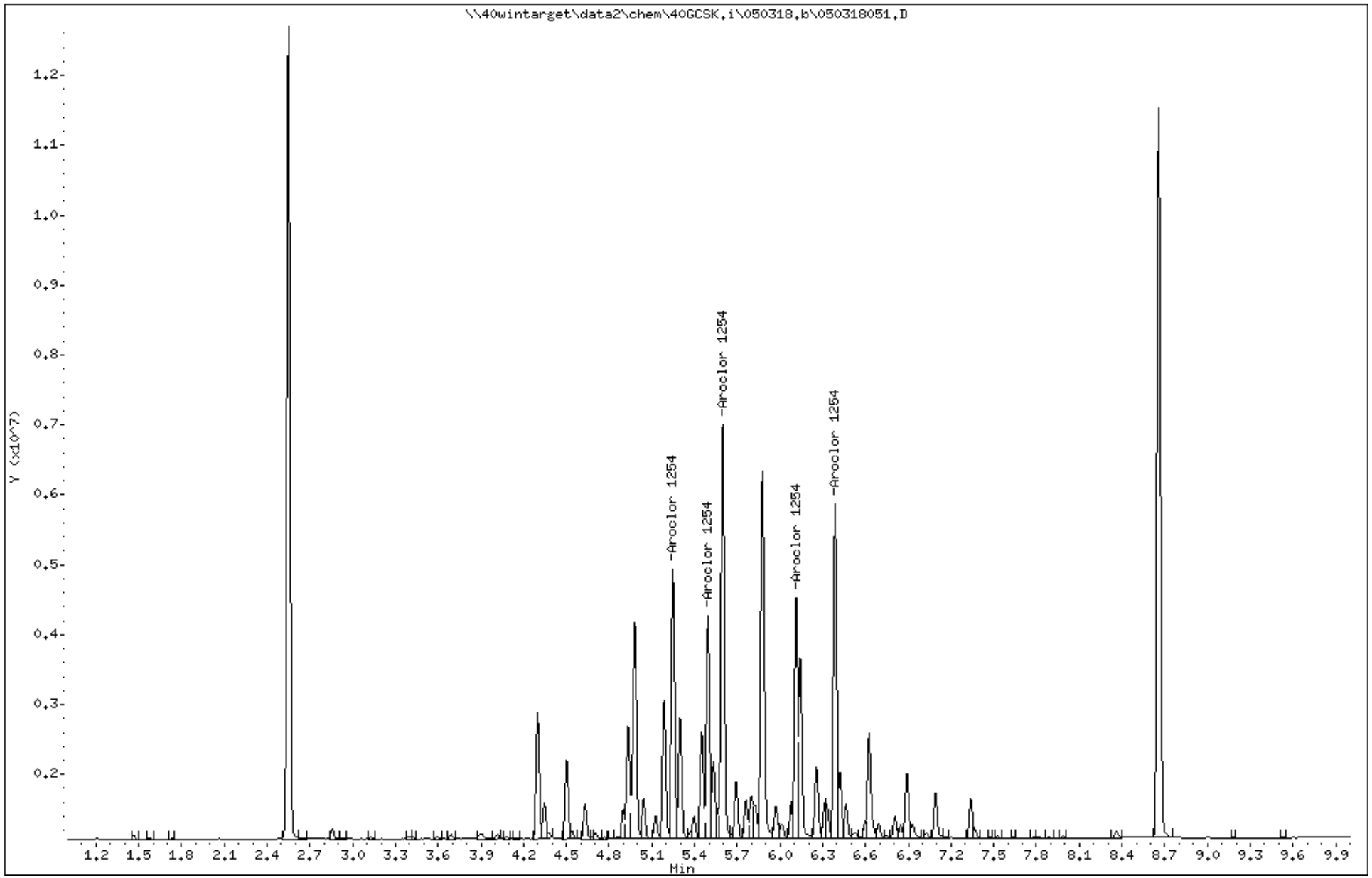
Instrument: 40GCSK.i

Sample Info: 1254-CAL4C, 185555:1

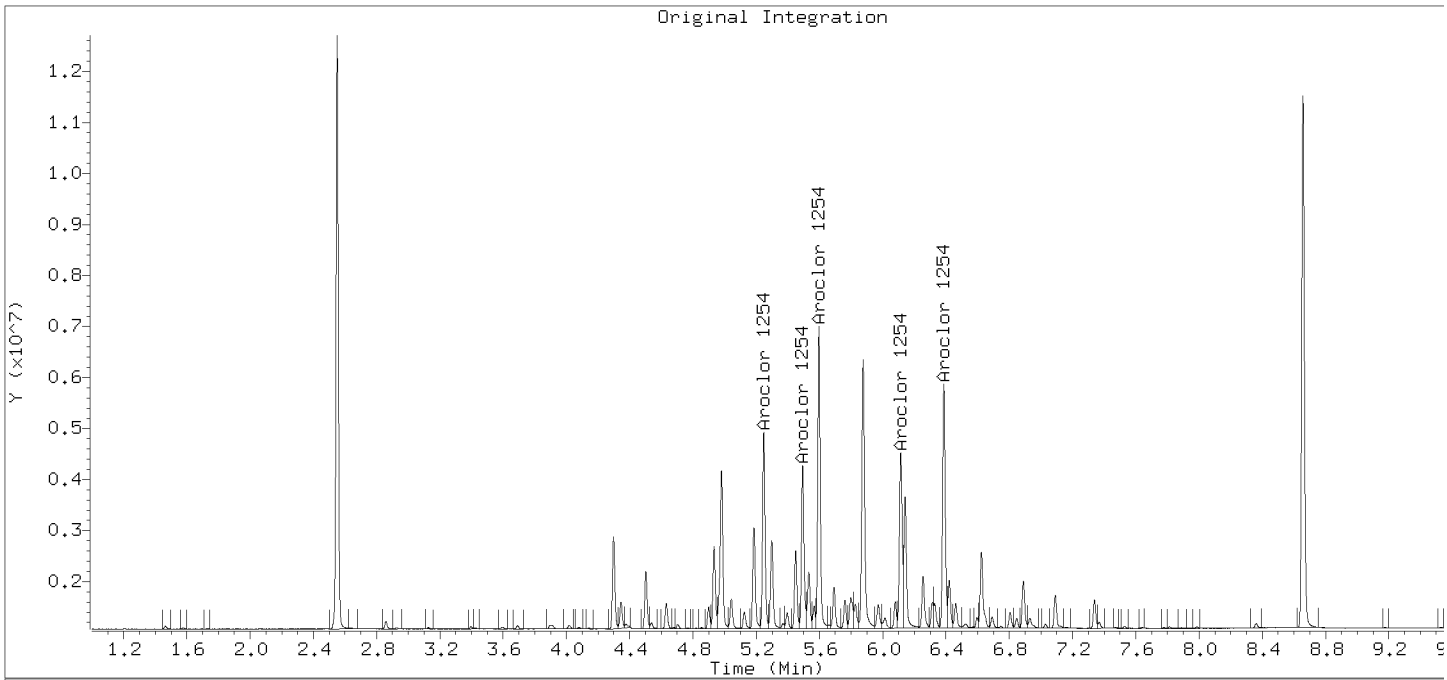
Operator: BLM

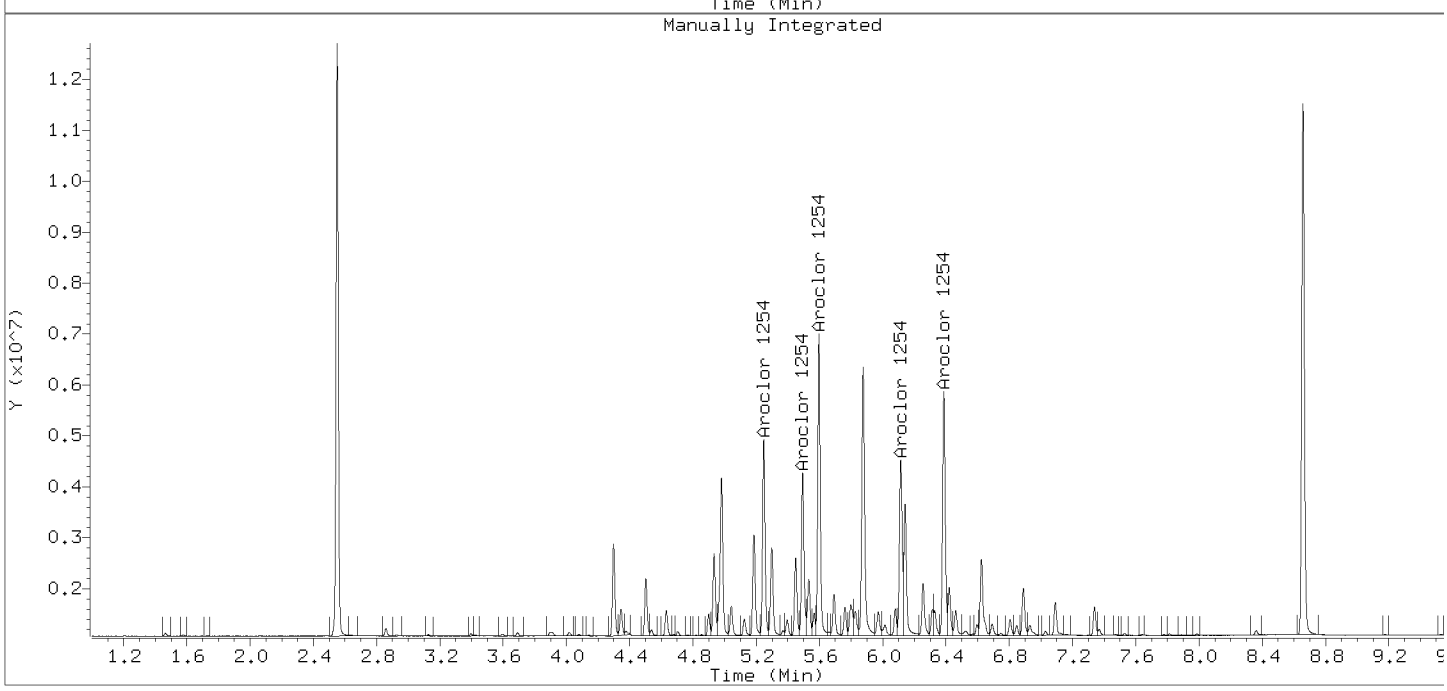
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 16:49

Client ID: 1254-CAL5C

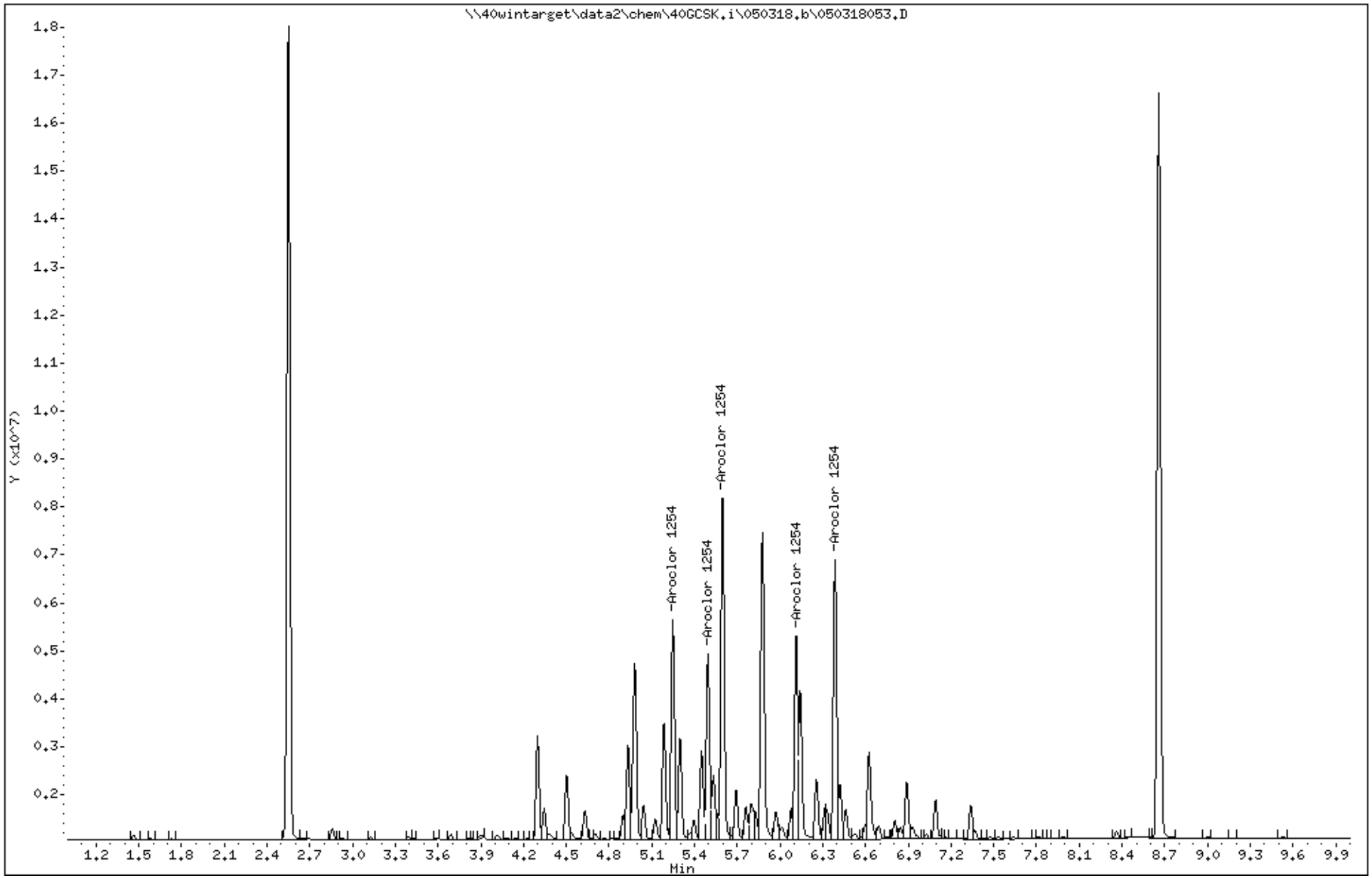
Instrument: 40GCSK.i

Sample Info: 1254-CAL5C, 185556:1

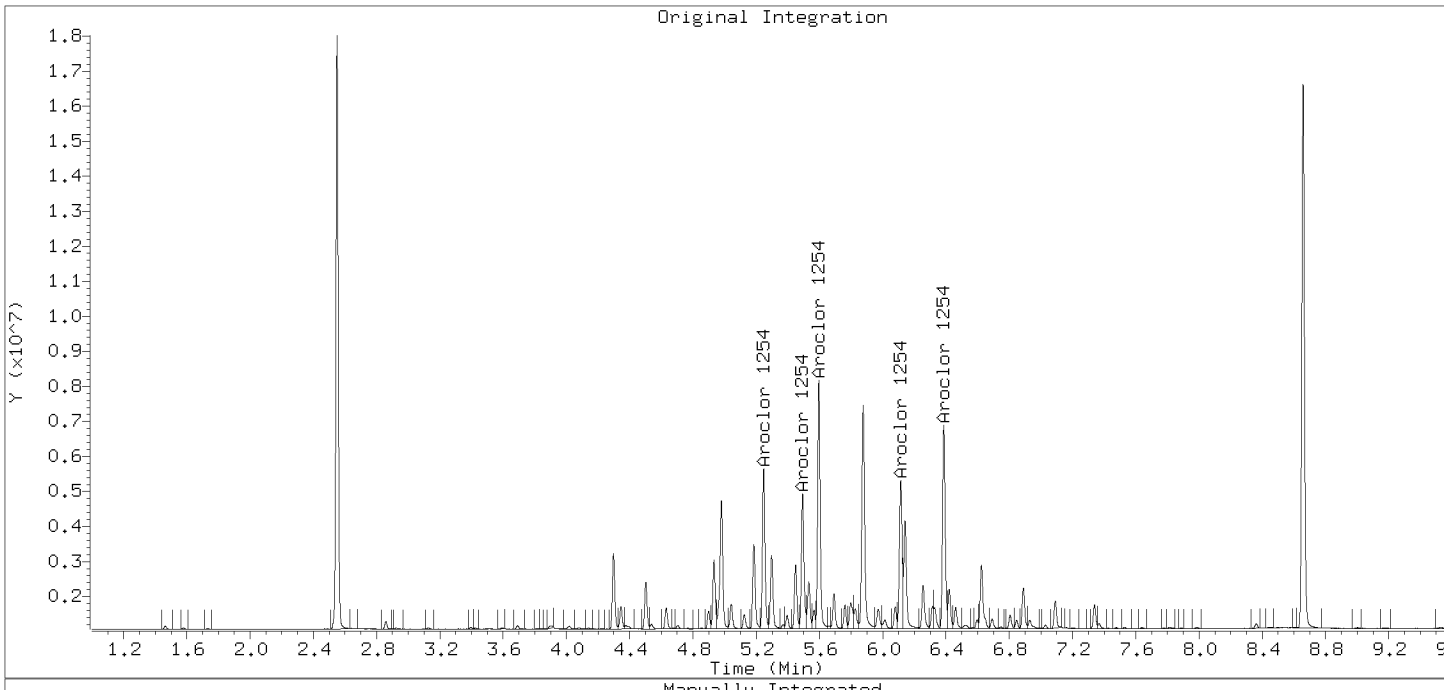
Operator: BLM

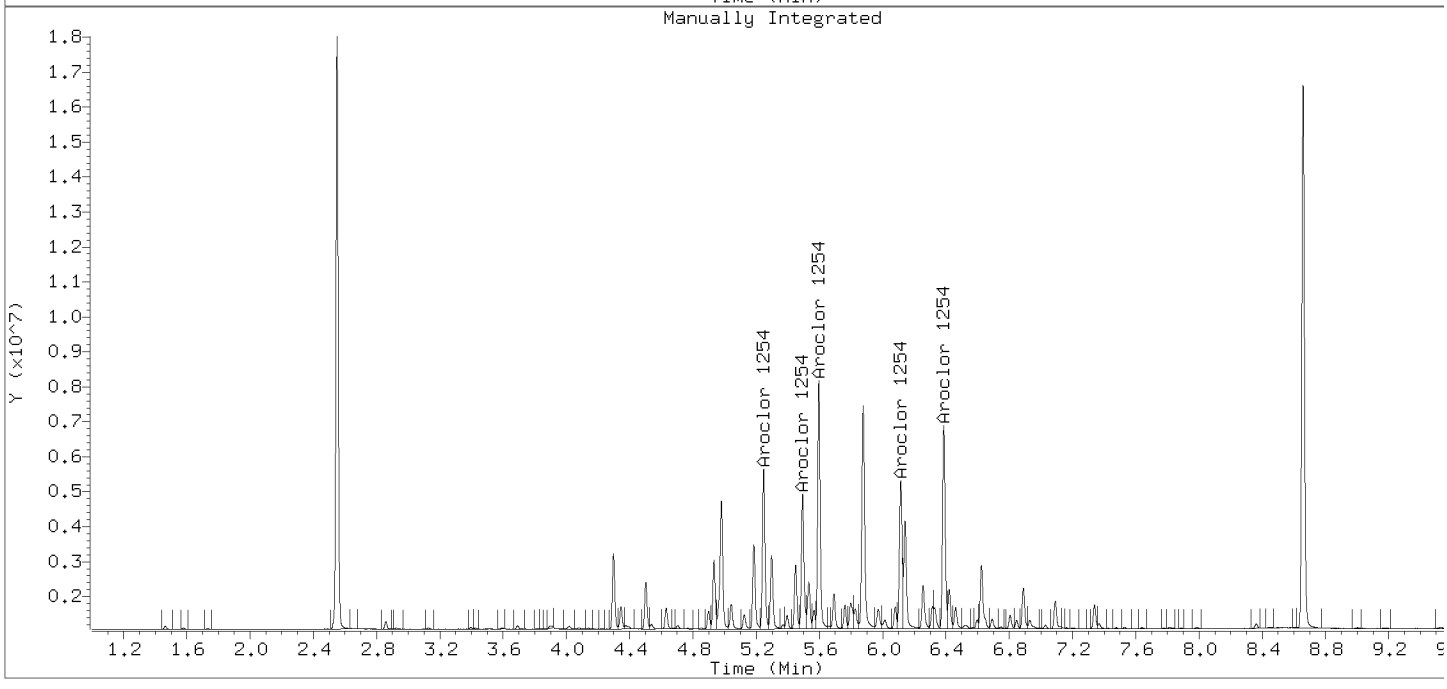
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 03-MAY-2018 17:21

Client ID: 1660-CAL1A

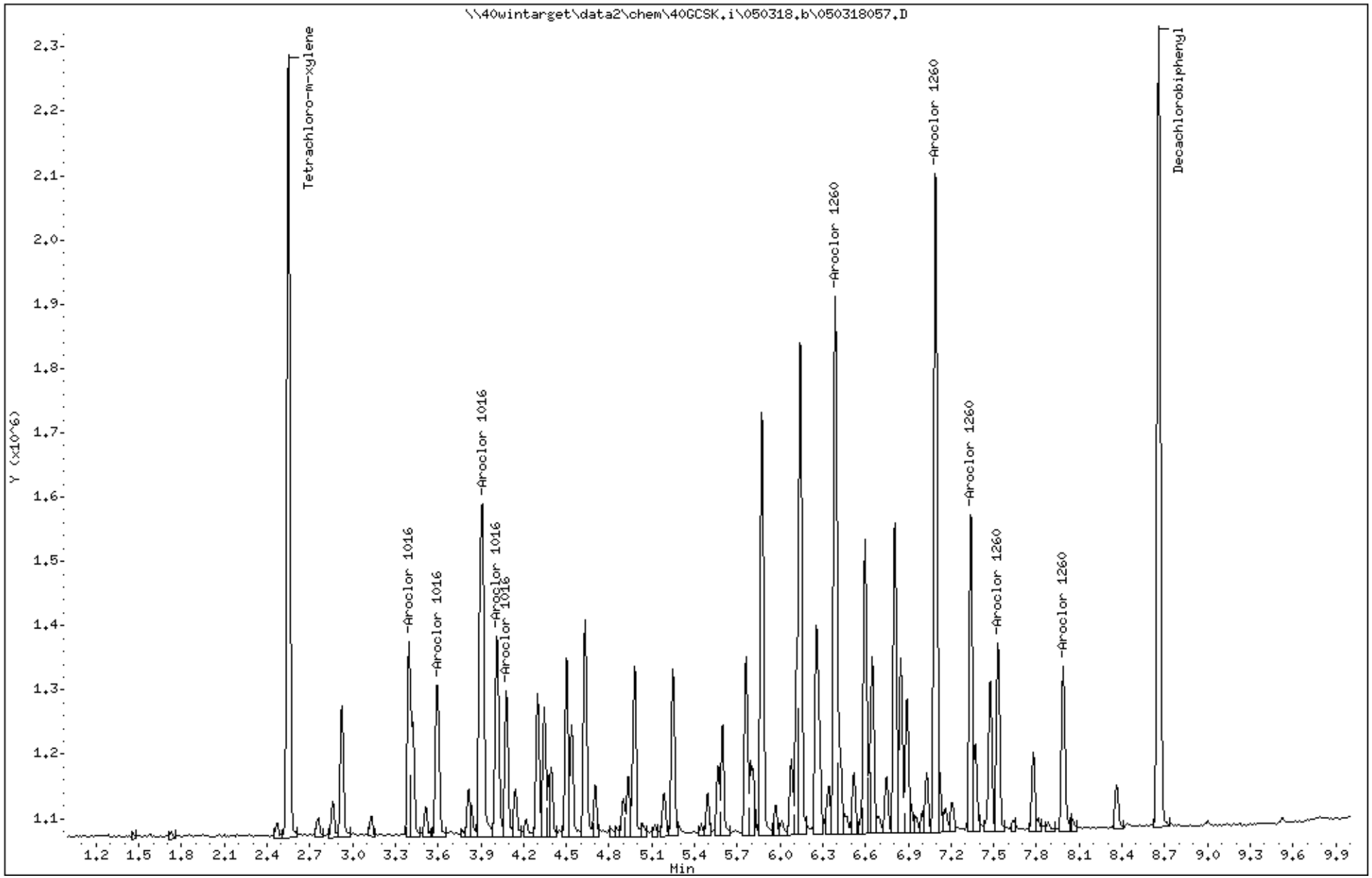
Instrument: 40GCSK.i

Sample Info: 1660-CAL1A, 188136:1

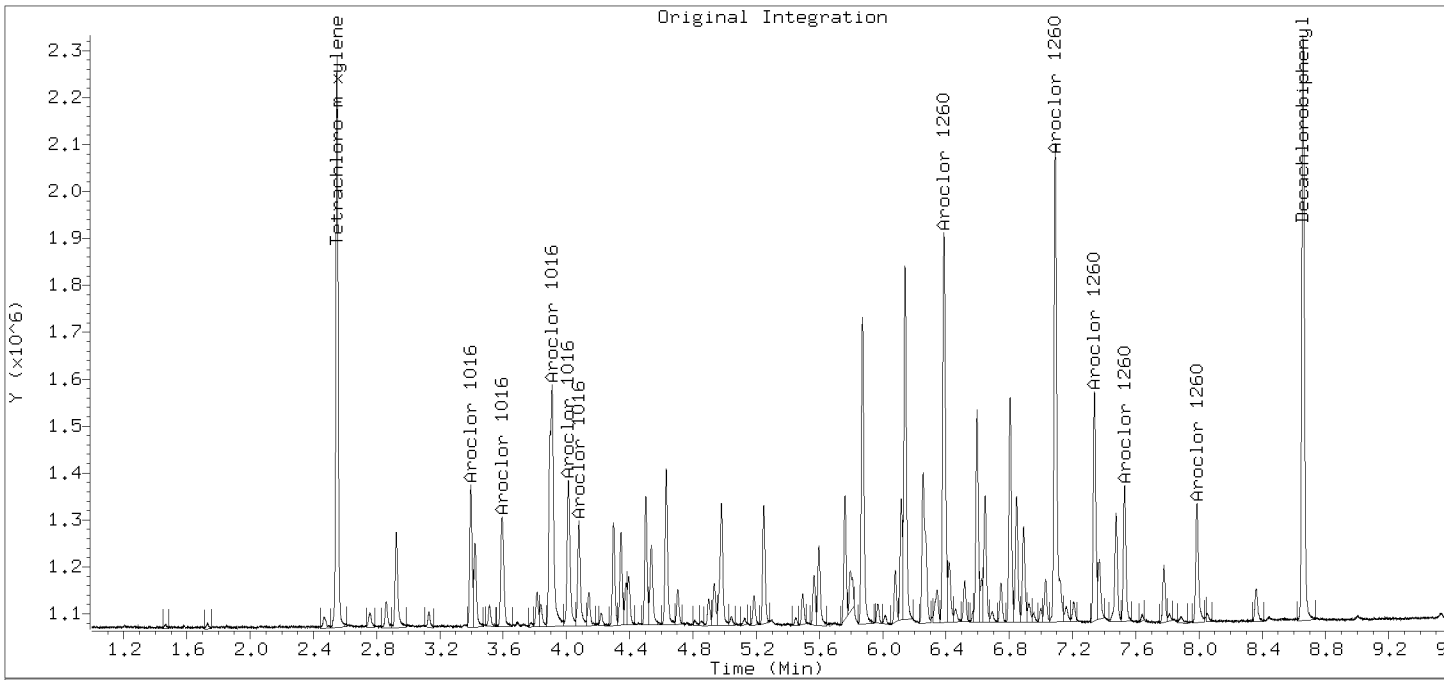
Operator: BLM

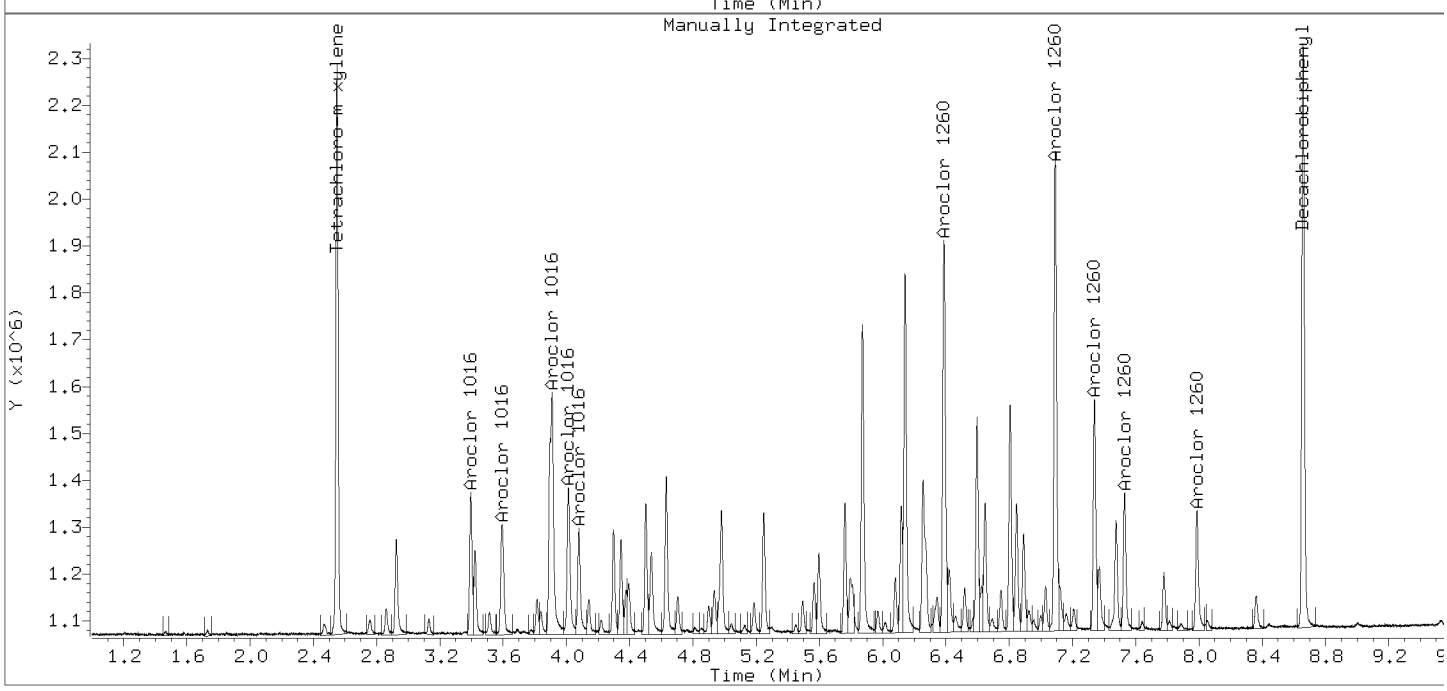
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Tetrachloro-m-xylene	1227409	1227409	
Decachlorobiphenyl	1475185	1475185	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 59 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	17912	15815	0.883	0.04		
1.728	14663	12228	0.834	0.03		
2.471	61595	45938	0.746	0.15		
2.549	2379750	2356758	0.990	6.07	$ 2 Tetrachloro-m-xylene	
2.759	81642	61206	0.750	0.20		
2.861	123186	109359	0.888	0.31		
2.923	445033	401933	0.903	1.13		
3.129	68982	63508	0.921	0.17		
3.395	642979	618646	0.962	1.64	5 Aroclor 1016	BA
3.422	413701	350172	0.846	1.05		
3.514	111192	91343	0.821	0.28		
3.593	656402	467903	0.713	1.67	5 Aroclor 1016	BA
3.689	21483	19027	0.886	0.05		
3.727	18991	12123	0.638	0.04		
3.777	22282	18523	0.831	0.05		
3.812	156568	150637	0.962	0.39		
3.839	120759	94958	0.786	0.30		
3.910	1960217	1051620	0.536	5.00	5 Aroclor 1016	BA
4.013	836515	652751	0.780	2.13	5 Aroclor 1016	BA
4.078	554798	461332	0.832	1.41	5 Aroclor 1016	BA
4.143	181440	148408	0.818	0.46		
4.220	70325	59295	0.843	0.17		
4.298	484782	449254	0.927	1.23		
4.345	430095	393366	0.915	1.09		
4.377	180343	183689	1.019	0.46		
4.393	256145	213986	0.835	0.65		
4.457	20400	13867	0.680	0.05		
4.501	587316	545985	0.930	1.50		
4.536	470606	337325	0.717	1.20		
4.631	789855	683978	0.866	2.01		
4.703	196684	152734	0.777	0.50		
4.815	34227	22900	0.669	0.08		
4.855	27687	22611	0.817	0.07		
4.900	135860	118857	0.875	0.34		
4.934	215377	187768	0.872	0.55		
4.980	721010	533800	0.740	1.84		
5.041	53209	38327	0.720	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.125	41894	32302	0.771	0.10	
5.185	151878	128511	0.846	0.38	
5.247	592252	529227	0.894	1.51	
5.298	34884	26291	0.754	0.08	
5.451	39658	34118	0.860	0.10	
5.494	167539	142461	0.850	0.42	
5.565	232028	216757	0.934	0.59	
5.597	396416	345641	0.872	1.01	
5.761	594381	559830	0.942	1.51	
5.797	396250	232669	0.587	1.01	
5.872	1549685	1284766	0.829	3.95	
5.970	108800	88927	0.817	0.27	
6.013	53350	39816	0.746	0.13	
6.080	252243	220298	0.873	0.64	
6.118	555471	555820	1.001	1.41	
6.142	1786713	1459334	0.817	4.56	
6.256	1074156	676419	0.630	2.74	
6.345	255144	141865	0.556	0.65	
6.387	2060205	1676311	0.814	5.26	8 Aroclor 1260
6.421	323552	267972	0.828	0.82	
6.460	101995	67487	0.662	0.26	
6.519	220804	182699	0.827	0.56	
6.573	44657	56097	1.256	0.11	
6.596	1023482	931936	0.911	2.61	
6.625	180721	190531	1.054	0.46	
6.648	648769	549633	0.847	1.65	
6.693	74295	53893	0.725	0.18	
6.748	199775	177148	0.887	0.51	
6.806	1093875	981925	0.898	2.79	
6.846	614855	545051	0.886	1.57	
6.891	494228	424061	0.858	1.26	
6.926	107692	82408	0.765	0.27	
6.956	50402	40618	0.806	0.12	
7.000	68025	60976	0.896	0.17	
7.029	215607	188309	0.873	0.55	
7.091	2413451	2074318	0.859	6.16	8 Aroclor 1260
7.121	173661	175821	1.012	0.44	
7.162	101290	67903	0.670	0.25	
7.210	114177	88917	0.779	0.29	
7.339	1164449	1022657	0.878	2.97	8 Aroclor 1260
7.370	364134	260539	0.716	0.93	
7.475	582855	473833	0.813	1.48	
7.529	715284	612483	0.856	1.82	8 Aroclor 1260
7.640	54375	35714	0.657	0.13	
7.777	284744	241227	0.847	0.72	
7.813	50534	37810	0.748	0.12	
7.844	13467	14059	1.044	0.03	
7.888	36189	25930	0.717	0.09	
7.987	655399	556937	0.850	1.67	8 Aroclor 1260
8.050	58966	37901	0.643	0.15	
8.361	162341	141287	0.870	0.41	
8.443	20217	11826	0.585	0.05	
8.657	2739030	2382922	0.870	7.47	$ 12 Decachlorobiphenyl
9.002	29783	17947	0.603	0.07	
9.527	41267	24515	0.594	0.10	
	39145304	32658583		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 59 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.548	2.549	-0.001	2379750	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	642978	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	656402	0.20000	0.21	0.00- 20.00	102.09	BA
3.909	3.909	0.000	1960217	0.20000	0.21	0.00- 20.00	304.87	BA
4.012	4.011	0.001	836514	0.20000	0.21	0.00- 20.00	130.10	BA
4.077	4.078	-0.001	554798	0.20000	0.20	0.00- 20.00	86.29	BA
Average of Peak Amounts =					0.20800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	2060205	0.20000	0.20	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	2413450	0.20000	0.20	0.00- 20.00	117.15	BA
7.338	7.338	0.000	1164449	0.20000	0.20	0.00- 20.00	56.52	BA
7.528	7.529	-0.001	715284	0.20000	0.21	0.00- 20.00	34.72	BA
7.986	7.987	-0.001	655399	0.20000	0.21	0.00- 20.00	31.81	BA
Average of Peak Amounts =					0.20400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2739030	0.02000	0.020			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D

Date : 03-MAY-2018 17:37

Client ID: 1660-CAL2A

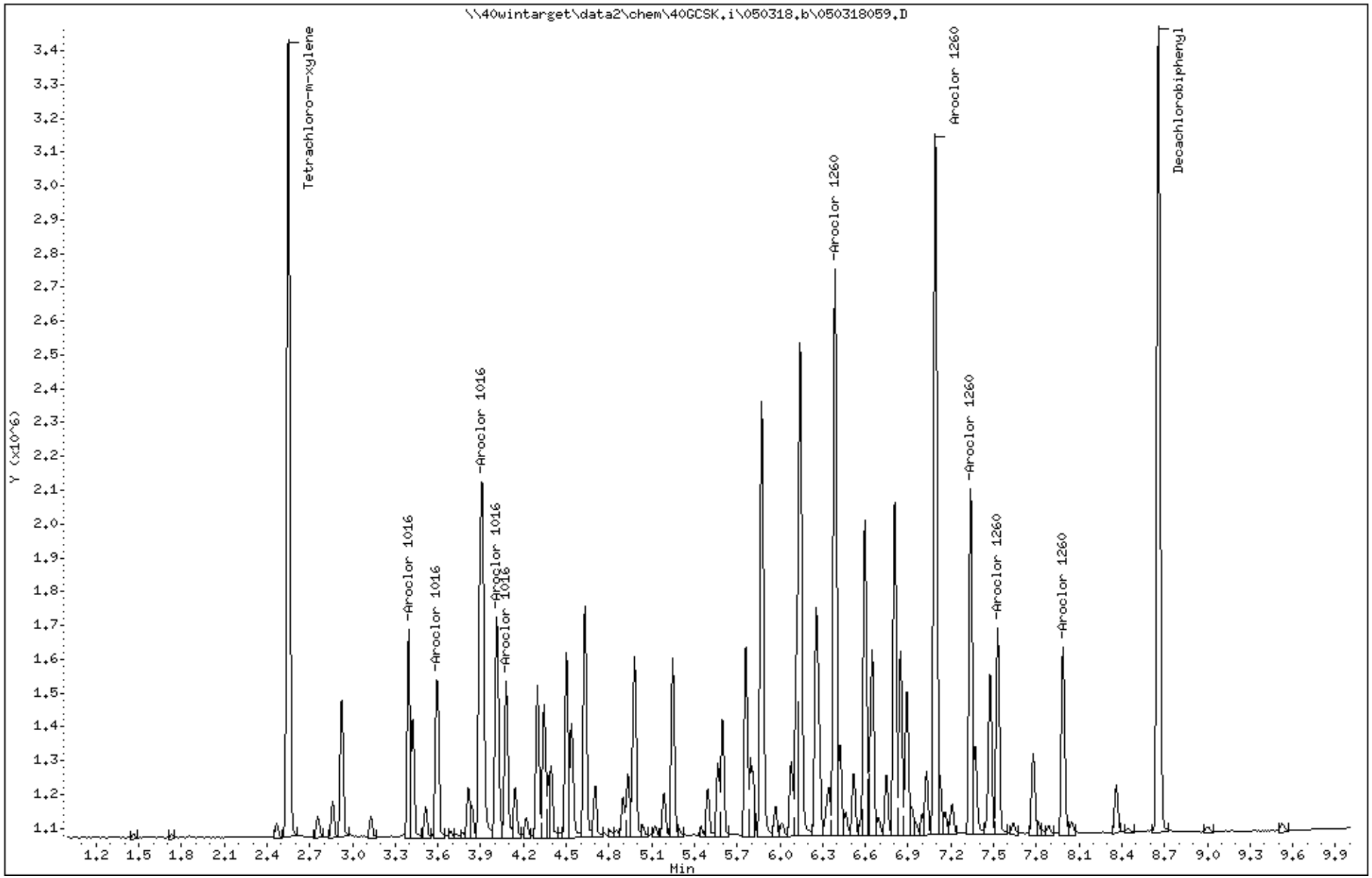
Instrument: 40GCSK.i

Sample Info: 1660-CAL2A, 185558:1

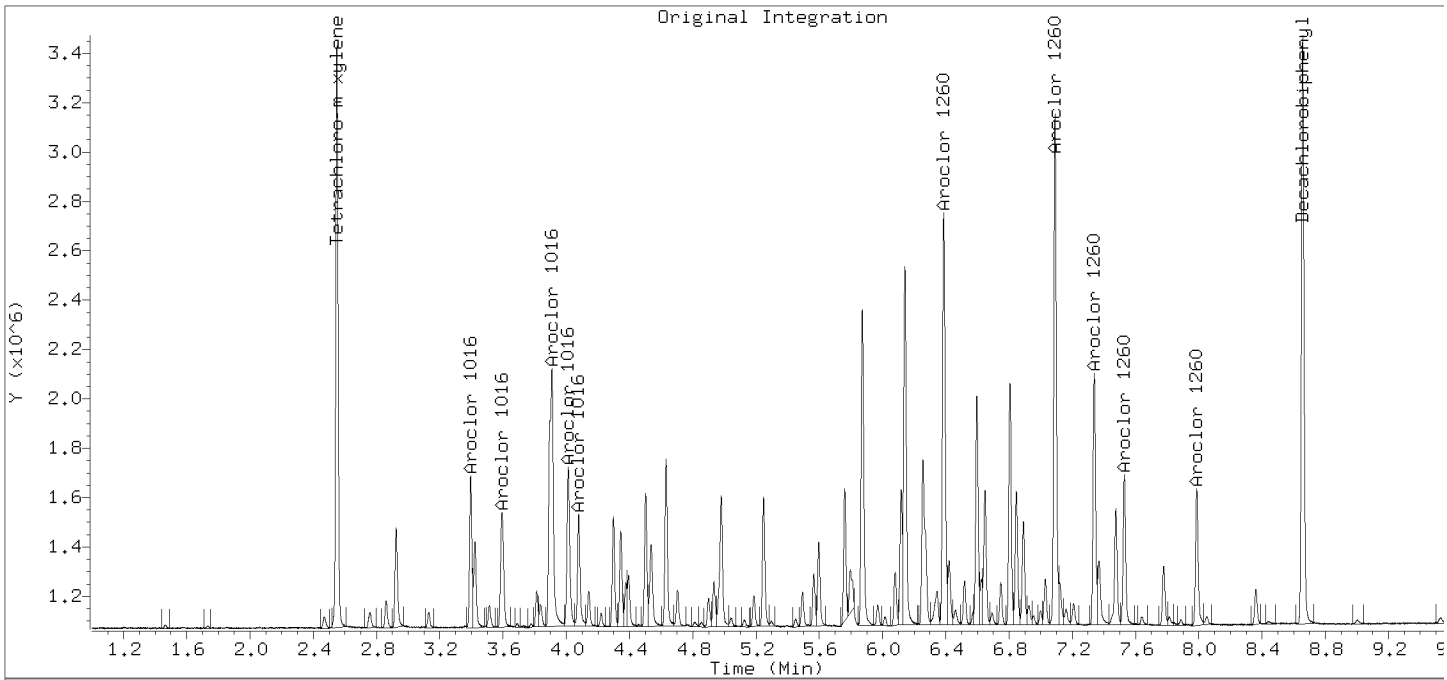
Operator: BLM

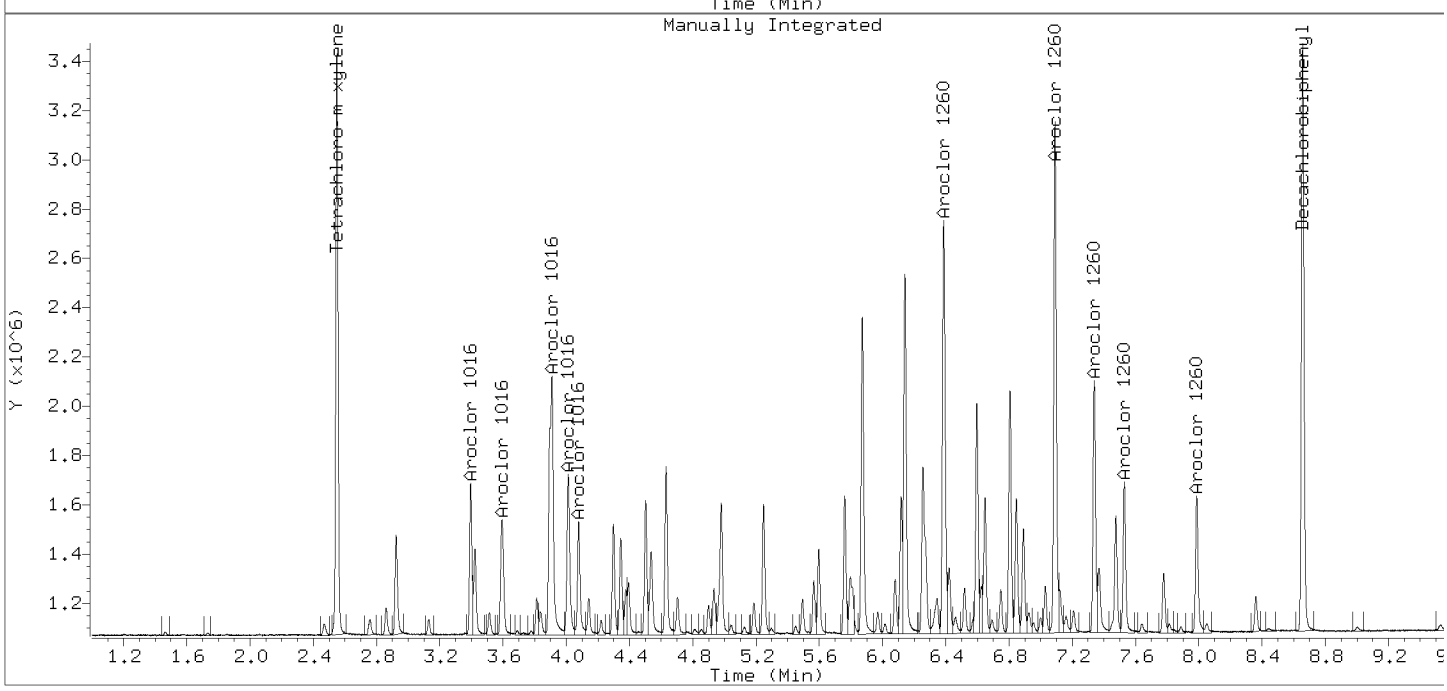
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318059.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Tetrachloro-m-xylene	2379750	2379750	
Decachlorobiphenyl	2739030	2739030	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 61 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	53726	50354	0.937	0.05		
1.463	37186	35122	0.944	0.03		
1.578	21617	16843	0.779	0.02		
1.730	28304	28194	0.996	0.02		
1.854	16868	15254	0.904	0.01		
2.061	37868	29796	0.787	0.03		
2.470	137109	113423	0.827	0.14		
2.549	6100684	6155447	1.009	6.43	$ 2 Tetrachloro-m-xylene	
2.757	188393	152965	0.812	0.19		
2.861	304915	277454	0.910	0.32		
2.924	1157346	1028076	0.888	1.22		
3.091	23867	21080	0.883	0.02		
3.130	171532	157358	0.917	0.18		
3.354	22231	16521	0.743	0.02		
3.395	1549695	1472824	0.950	1.63	5 Aroclor 1016	BA
3.421	985336	873341	0.886	1.03		
3.513	263101	222930	0.847	0.27		
3.594	1598183	1152800	0.721	1.68	5 Aroclor 1016	BA
3.691	51400	40457	0.787	0.05		
3.725	25991	17647	0.679	0.02		
3.777	43562	41035	0.942	0.04		
3.812	389538	376603	0.967	0.41		
3.838	289273	239616	0.828	0.30		
3.909	4708386	2608002	0.554	4.96	5 Aroclor 1016	BA
4.012	2028145	1590308	0.784	2.13	5 Aroclor 1016	BA
4.077	1375494	1186545	0.863	1.45	5 Aroclor 1016	BA
4.142	430719	353186	0.820	0.45		
4.221	170219	135058	0.793	0.17		
4.298	1172731	1080073	0.921	1.23		
4.344	1058088	981986	0.928	1.11		
4.376	431521	450844	1.045	0.45		
4.394	606218	512468	0.845	0.63		
4.460	36210	25250	0.697	0.03		
4.502	1430253	1335045	0.933	1.50		
4.537	1131425	838742	0.741	1.19		
4.631	1906063	1624999	0.853	2.01		
4.703	441727	384456	0.870	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.763	37907	23970	0.632	0.03	
4.810	69190	53049	0.767	0.07	
4.855	62084	52439	0.845	0.06	
4.899	334136	301333	0.902	0.35	
4.933	537333	489354	0.911	0.56	
4.980	1726715	1230785	0.713	1.82	
5.044	126074	91572	0.726	0.13	
5.126	97679	77855	0.797	0.10	
5.186	360685	312217	0.866	0.38	
5.248	1433379	1273297	0.888	1.51	
5.298	77106	54913	0.712	0.08	
5.396	17385	14283	0.822	0.01	
5.450	96882	81968	0.846	0.10	
5.494	383137	357488	0.933	0.40	
5.565	559641	538610	0.962	0.59	
5.597	1002245	867756	0.866	1.05	
5.691	21314	17370	0.815	0.02	
5.761	1464006	1357901	0.928	1.54	
5.795	963085	575973	0.598	1.01	
5.873	3636638	3029500	0.833	3.83	
5.969	248205	217423	0.876	0.26	
6.014	118539	97504	0.823	0.12	
6.079	619548	565801	0.913	0.65	
6.117	1358471	1361163	1.002	1.43	
6.142	4174571	3497797	0.838	4.40	
6.255	2624249	1661735	0.633	2.76	
6.344	590948	342928	0.580	0.62	
6.386	5019097	4164755	0.830	5.29	8 Aroclor 1260
6.421	762689	647945	0.850	0.80	
6.461	201798	151800	0.752	0.21	
6.518	536476	459453	0.856	0.56	
6.573	112260	133894	1.193	0.11	
6.596	2436192	2179917	0.895	2.56	
6.625	454038	495755	1.092	0.47	
6.647	1548071	1327669	0.858	1.63	
6.691	178453	134122	0.752	0.18	
6.747	481363	438864	0.912	0.50	
6.806	2616686	2361158	0.902	2.75	
6.847	1484307	1315090	0.886	1.56	
6.890	1242930	1038667	0.836	1.31	
6.925	233934	198303	0.848	0.24	
6.956	115943	99282	0.856	0.12	
7.000	164120	152071	0.927	0.17	
7.029	524427	486210	0.927	0.55	
7.091	5900538	5151876	0.873	6.22	8 Aroclor 1260
7.121	412665	393369	0.953	0.43	
7.159	204567	153012	0.748	0.21	
7.208	272783	218350	0.800	0.28	
7.339	2854588	2543355	0.891	3.01	8 Aroclor 1260
7.370	853888	668115	0.782	0.90	
7.475	1405441	1192261	0.848	1.48	
7.529	1721743	1492890	0.867	1.81	8 Aroclor 1260
7.640	133905	95911	0.716	0.14	
7.778	694879	631675	0.909	0.73	
7.814	121059	79469	0.656	0.12	
7.888	66234	55913	0.844	0.06	
7.987	1602956	1330170	0.830	1.69	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.050	116958	88536	0.757	0.12	
8.361	405599	346787	0.855	0.42	
8.440	40321	25957	0.644	0.04	
8.658	6625063	5534164	0.835	7.47	$ 12 Decachlorobiphenyl
9.003	50871	33868	0.666	0.05	
9.529	55262	36484	0.660	0.05	
	94818181	80045203		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 61 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	6100684	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.394	3.395	-0.001	1549695	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1598182	0.50000	0.50	0.00- 20.00	103.13	BA
3.908	3.909	-0.001	4708386	0.50000	0.50	0.00- 20.00	303.83	BA
4.012	4.011	0.001	2028145	0.50000	0.50	0.00- 20.00	130.87	BA
4.077	4.078	-0.001	1375493	0.50000	0.51	0.00- 20.00	88.76	BA
Average of Peak Amounts =					0.50400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	5019097	0.50000	0.50	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	5900537	0.50000	0.50	0.00- 20.00	117.56	BA
7.338	7.338	0.000	2854587	0.50000	0.50	0.00- 20.00	56.87	BA
7.529	7.529	0.000	1721743	0.50000	0.50	0.00- 20.00	34.30	BA
7.986	7.987	-0.001	1602956	0.50000	0.51	0.00- 20.00	31.94	BA
Average of Peak Amounts =					0.50200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6625063	0.05000	0.050			

QC Flag Legend

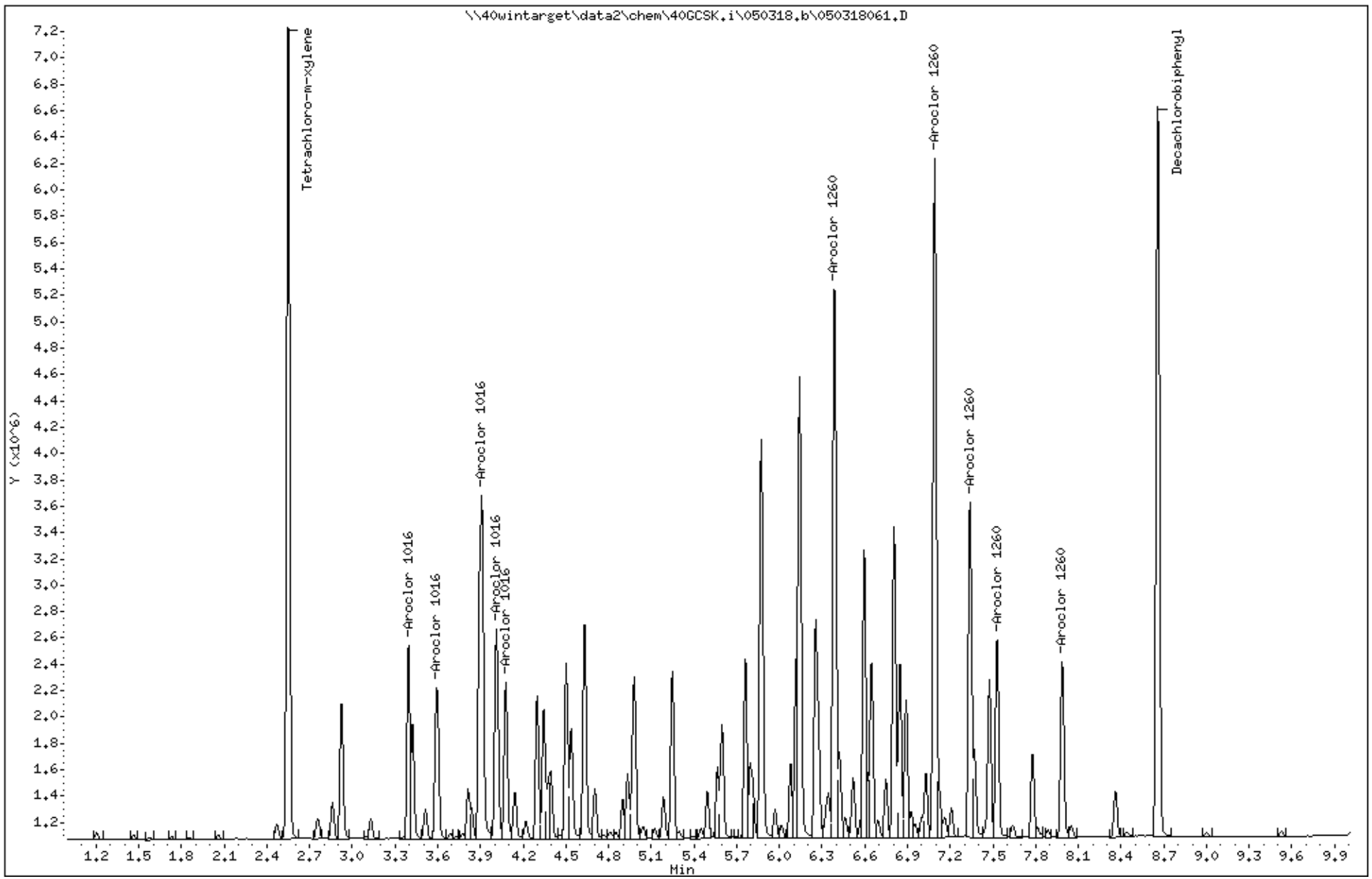
M - Compound response manually integrated.

Review Codes Legend

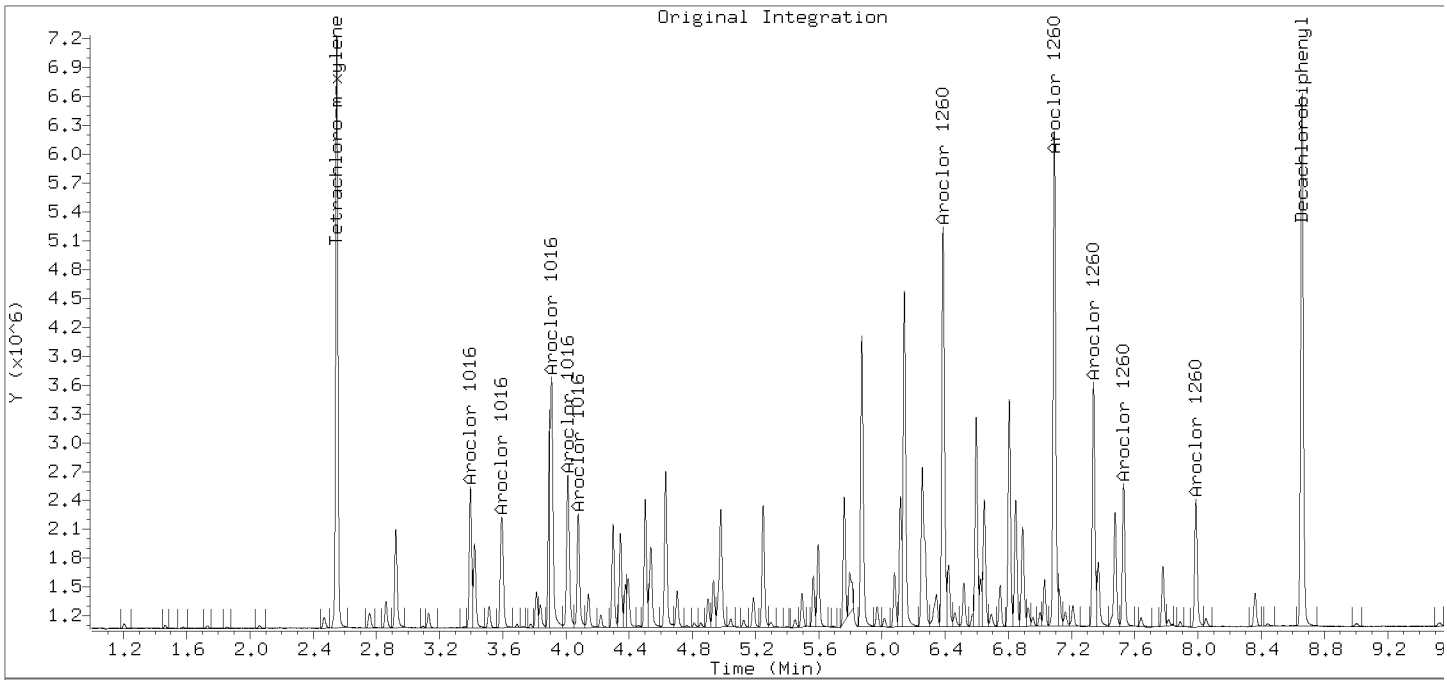
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

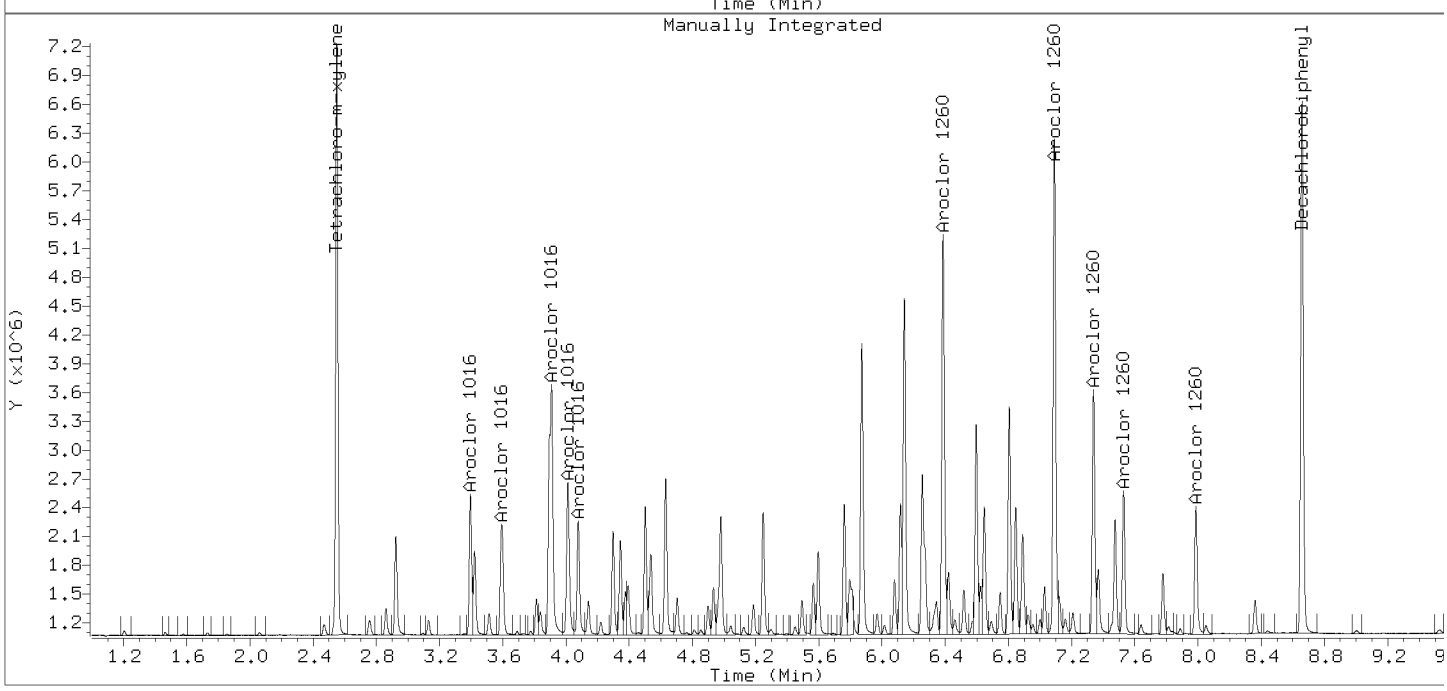
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Date : 03-MAY-2018 17:53
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318061.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Tetrachloro-m-xylene	6100684	6100684	
Decachlorobiphenyl	6625063	6625063	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 63 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.464	67236	64848	0.964	0.04		
1.577	30556	27095	0.887	0.02		
1.732	31242	29019	0.929	0.02		
1.854	21745	19686	0.905	0.01		
2.470	208781	168214	0.806	0.13		
2.550	11955961	11999830	1.004	7.97	$ 2 Tetrachloro-m-xylene	
2.757	313747	237652	0.757	0.20		
2.860	489974	458341	0.935	0.32		
2.924	1719967	1536154	0.893	1.14		
3.130	244334	235899	0.965	0.16		
3.274	10988	7384	0.672	0.00		
3.362	28250	24900	0.881	0.01		
3.396	2348979	2198443	0.936	1.56	5 Aroclor 1016	BA
3.422	1465092	1299045	0.887	0.97		
3.514	396811	344207	0.867	0.26		
3.594	2420313	1697882	0.702	1.61	5 Aroclor 1016	BA
3.692	80439	75413	0.938	0.05		
3.723	31076	23156	0.745	0.02		
3.776	64078	60404	0.943	0.04		
3.813	615074	590097	0.959	0.41		
3.838	430982	372783	0.865	0.28		
3.909	7271125	4103121	0.564	4.84	5 Aroclor 1016	BA
4.011	3072408	2432414	0.792	2.04	5 Aroclor 1016	BA
4.077	2070662	1801326	0.870	1.38	5 Aroclor 1016	BA
4.142	645710	551139	0.854	0.43		
4.221	238325	206191	0.865	0.15		
4.298	1763686	1629539	0.924	1.17		
4.345	1607829	1463237	0.910	1.07		
4.377	658312	690446	1.049	0.43		
4.394	926757	783490	0.845	0.61		
4.458	56164	36342	0.647	0.03		
4.502	2167213	2034242	0.939	1.44		
4.537	1739220	1273956	0.732	1.16		
4.631	2894760	2541033	0.878	1.93		
4.703	675338	598985	0.887	0.45		
4.761	48164	32845	0.682	0.03		
4.812	104846	80805	0.771	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.853	94643	77881	0.823	0.06	
4.898	519887	495744	0.954	0.34	
4.933	838898	768578	0.916	0.55	
4.980	2601456	1860837	0.715	1.73	
5.043	185872	137052	0.737	0.12	
5.124	146509	121892	0.832	0.09	
5.186	555478	498528	0.897	0.37	
5.247	2154992	1925467	0.893	1.43	
5.297	126762	86104	0.679	0.08	
5.393	23727	19735	0.832	0.01	
5.449	144806	128498	0.887	0.09	
5.494	596942	553969	0.928	0.39	
5.531	27825	27055	0.972	0.01	
5.565	857592	822758	0.959	0.57	
5.596	1545706	1365517	0.883	1.03	
5.691	28511	22906	0.803	0.01	
5.760	2205326	2053023	0.931	1.47	
5.796	1608716	870409	0.541	1.07	
5.872	5534744	4659515	0.842	3.69	
5.970	370112	341912	0.924	0.24	
6.016	176527	146842	0.832	0.11	
6.080	950067	908543	0.956	0.63	
6.117	2035562	2008760	0.987	1.35	
6.141	6388906	5380626	0.842	4.26	
6.255	4009021	2569923	0.641	2.67	
6.343	915697	543582	0.594	0.61	
6.387	7770769	6434864	0.828	5.18	8 Aroclor 1260
6.420	1181233	1015145	0.859	0.78	
6.462	295336	224814	0.761	0.19	
6.518	800706	685961	0.857	0.53	
6.572	177187	210961	1.191	0.11	
6.596	3711115	3273611	0.882	2.47	
6.624	722454	793419	1.098	0.48	
6.647	2356465	2054698	0.872	1.57	
6.691	267842	205980	0.769	0.17	
6.747	750453	699673	0.932	0.50	
6.805	4025779	3664936	0.910	2.68	
6.846	2243243	1966250	0.877	1.49	
6.890	1907111	1636442	0.858	1.27	
6.926	355149	296453	0.835	0.23	
6.955	177855	148888	0.837	0.11	
6.999	247782	231402	0.934	0.16	
7.029	828759	754937	0.911	0.55	
7.091	9187934	8114188	0.883	6.12	8 Aroclor 1260
7.122	653413	593308	0.908	0.43	
7.161	306439	233514	0.762	0.20	
7.208	382783	320545	0.837	0.25	
7.338	4459353	4051635	0.909	2.97	8 Aroclor 1260
7.369	1293842	1059494	0.819	0.86	
7.475	2145485	1746091	0.814	1.43	
7.529	2620928	2286896	0.873	1.74	8 Aroclor 1260
7.639	195235	153578	0.787	0.13	
7.778	1081779	975392	0.902	0.72	
7.814	170854	124894	0.731	0.11	
7.887	99574	85627	0.860	0.06	
7.987	2445296	2099169	0.858	1.63	8 Aroclor 1260
8.052	189137	135738	0.718	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.361	670097	572171	0.854	0.44	
8.658	12598490	11014054	0.874	8.88	$ 12 Decachlorobiphenyl
9.006	17026	12307	0.723	0.01	
9.172	17942	12537	0.699	0.01	
9.534	13856	14286	1.031	0.00	
	149929128	128029077		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 63 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	11955960	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	2348979	0.80000	0.77	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	2420312	0.80000	0.76	0.00- 20.00	103.04	BA
3.908	3.909	-0.001	7271124	0.80000	0.77	0.00- 20.00	309.54	BA
4.011	4.011	0.000	3072407	0.80000	0.76	0.00- 20.00	130.80	BA
4.077	4.078	-0.001	2070661	0.80000	0.77	0.00- 20.00	88.15	BA
Average of Peak Amounts =					0.76600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	7770768	0.80000	0.78	0.00- 20.00	100.00(M)	BA
7.091	7.090	0.001	9187934	0.80000	0.78	0.00- 20.00	118.24	BA
7.338	7.338	0.000	4459353	0.80000	0.79	0.00- 20.00	57.39	BA
7.528	7.529	-0.001	2620928	0.80000	0.77	0.00- 20.00	33.73	BA
7.986	7.987	-0.001	2445295	0.80000	0.77	0.00- 20.00	31.47	BA
Average of Peak Amounts =					0.77800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	12598489	0.10000	0.094			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D

Date : 03-MAY-2018 18:09

Client ID: 1660-CAL4A

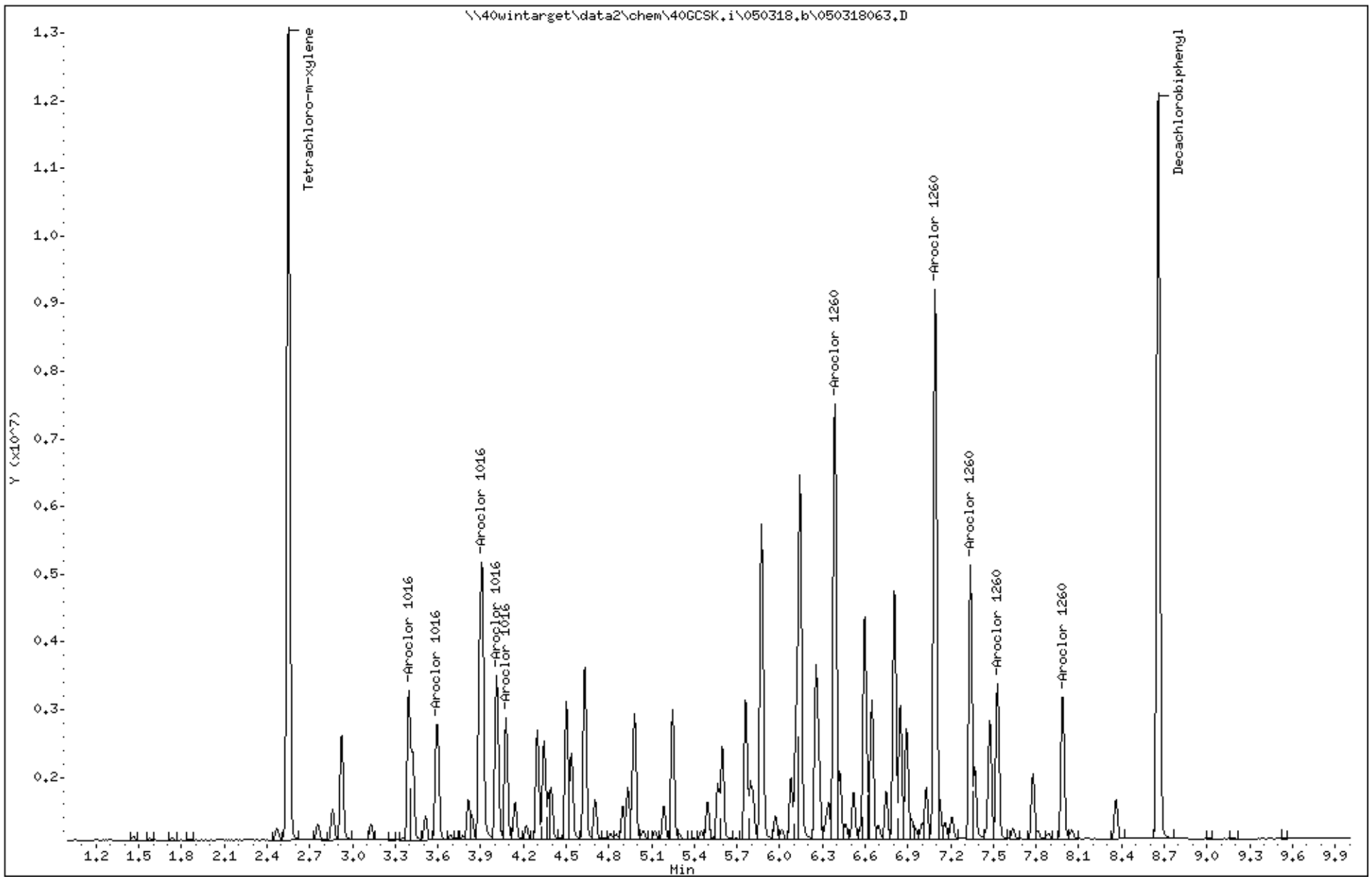
Instrument: 40GCSK.i

Sample Info: 1660-CAL4A, 185560:1

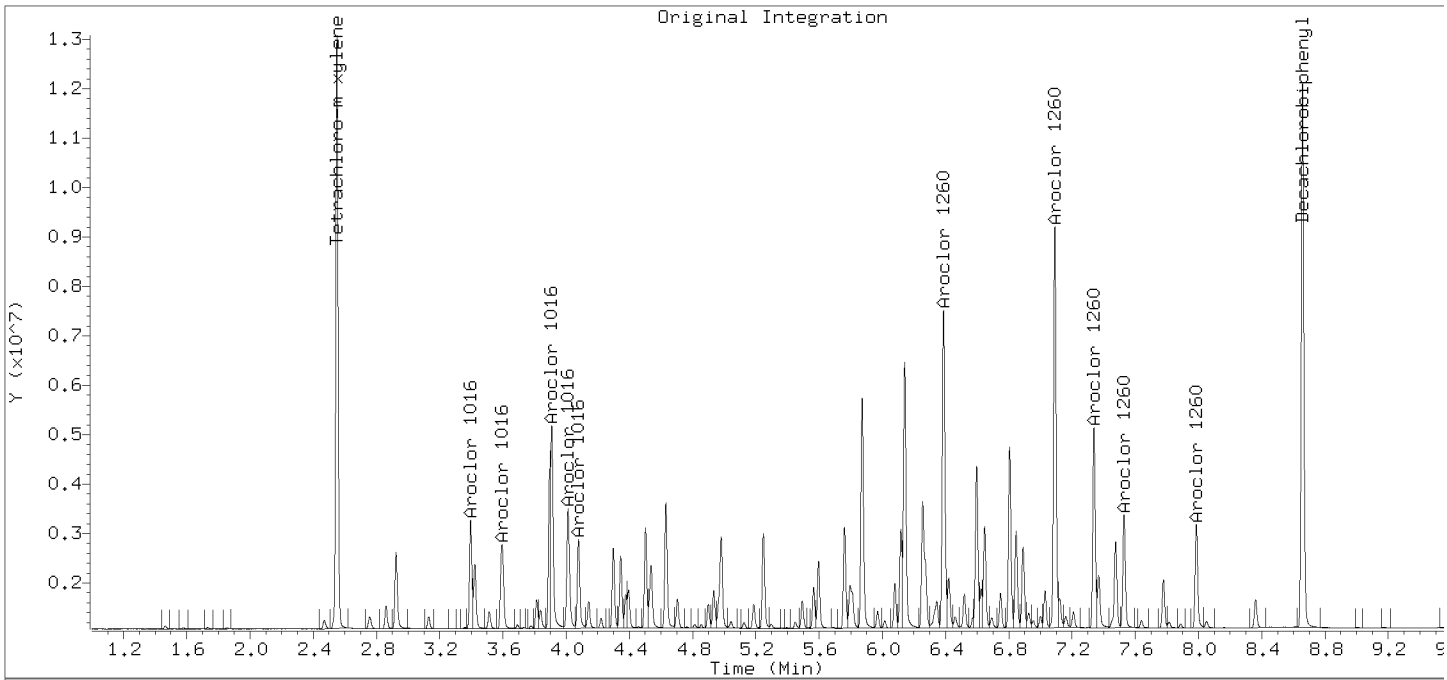
Operator: BLM

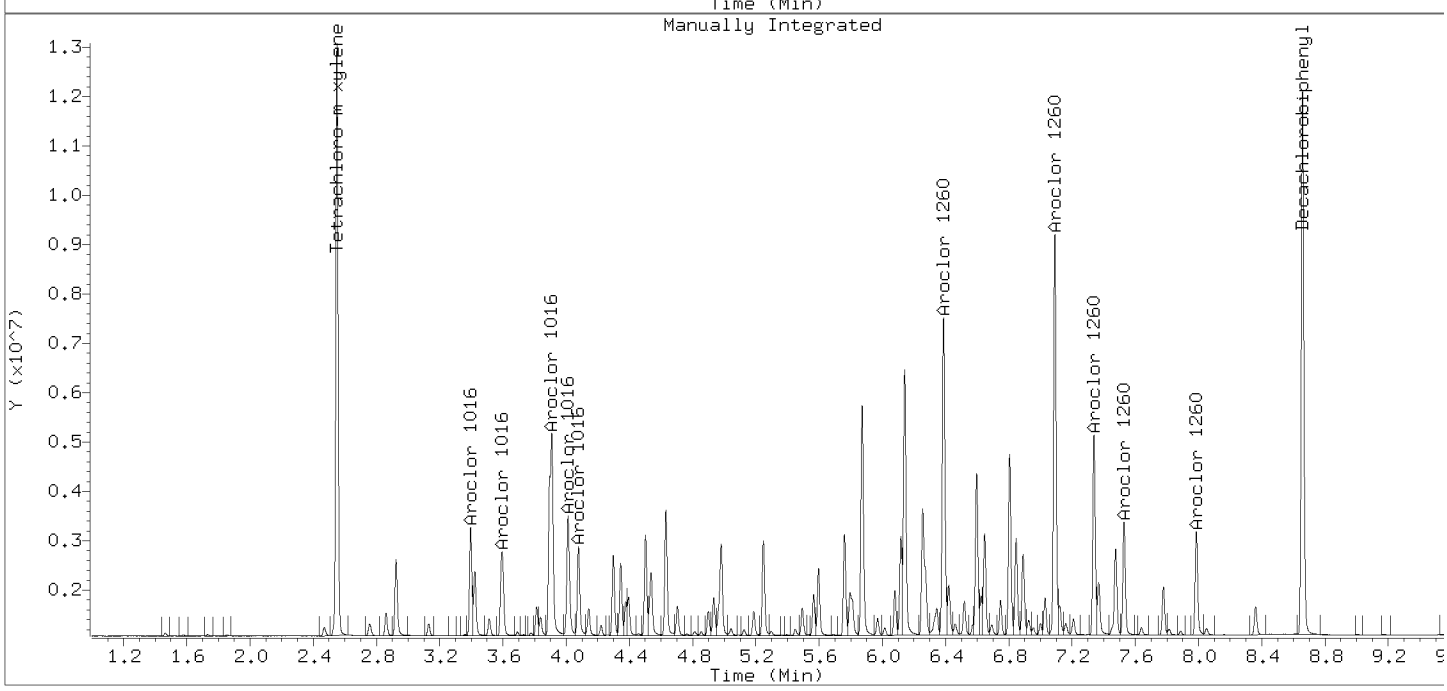
Column phase: ZB-1ms

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

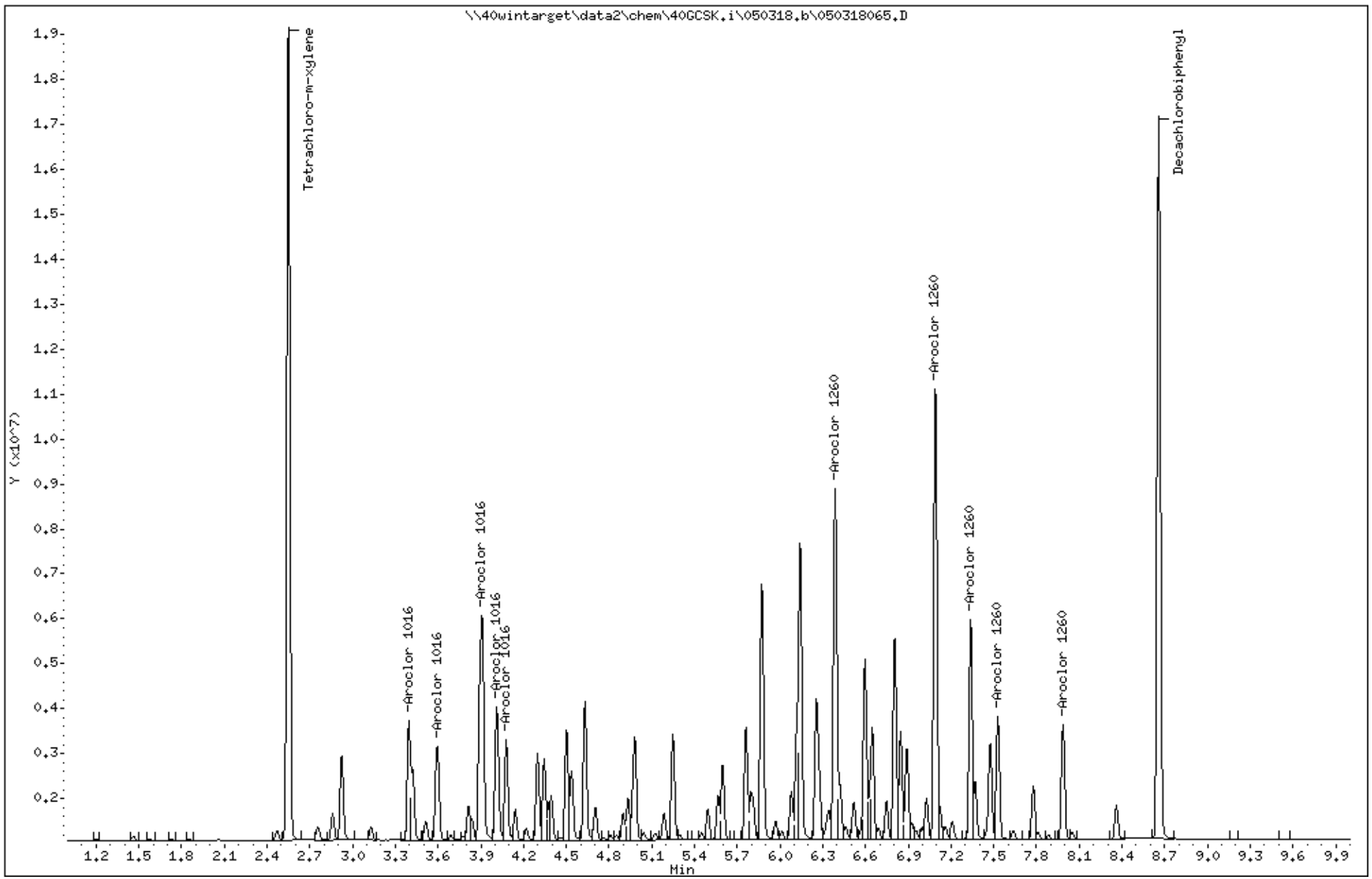
M - Compound response manually integrated.

Review Codes Legend

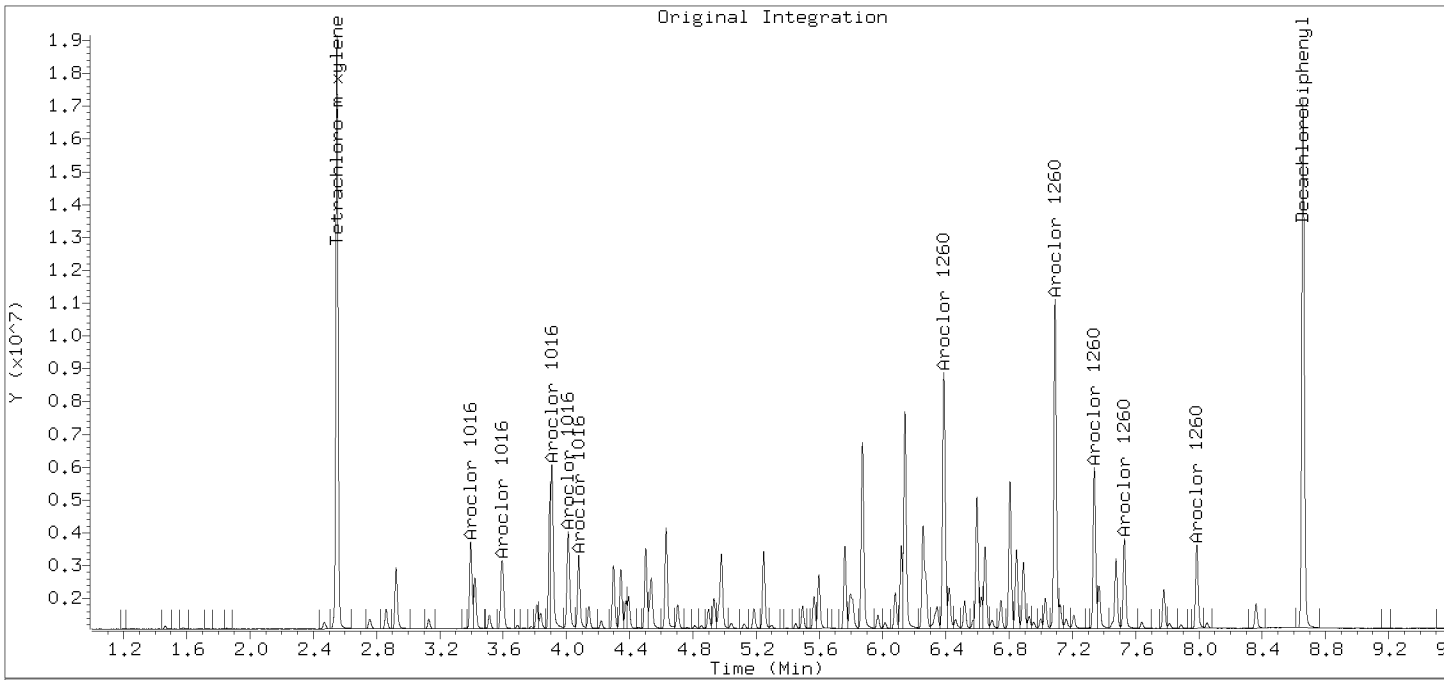
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

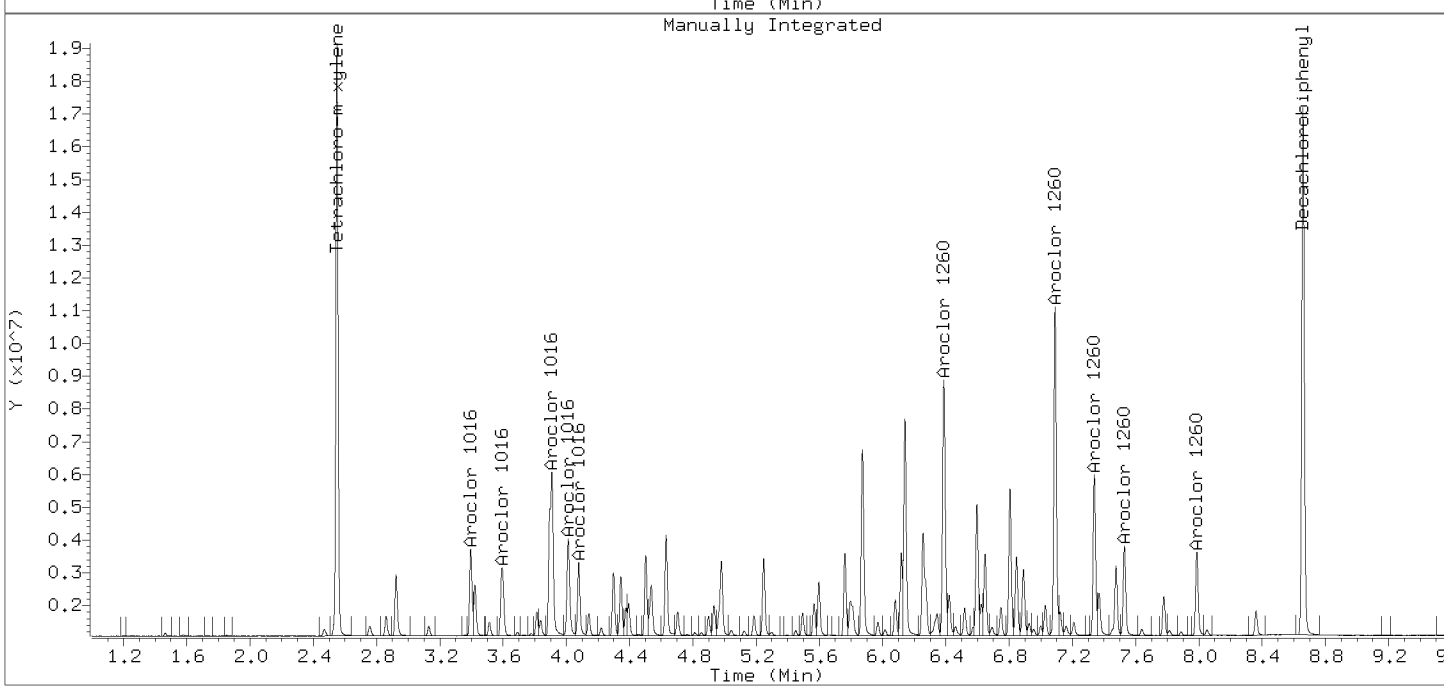
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Date : 03-MAY-2018 18:26
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318065.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Tetrachloro-m-xylene	17835724	17835724	
Decachlorobiphenyl	18449537	18449537	

PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSK
Calibration Date: 5/3/2018

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.107248	7.248	20	Pass
AR1242-CAL1	.1	0.112708	12.708	20	Pass
AR1248-CAL1	.1	0.100845	0.845	20	Pass
AR1254-CAL1	.1	0.103878	3.878	20	Pass
AR1016-CAL1	.1	0.105964	5.964	20	Pass
AR1260-CAL1	.1	0.103447	3.447	20	Pass

SAMPLE NO.

10965753ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 18:58

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

Lab File ID: 050318.B\050318069.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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.: 40158028

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.

10966333CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 23:01

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

Lab File ID: 050318.B\050318099.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158028

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	969396.000	-2.1208
Aroclor 1221	2	Averaged	2.471	2.437	2.505	527183.800	513558.000	-2.5846
Aroclor 1221	3	Averaged	2.758	2.724	2.792	1386989.95	1392134.00	0.3709
Aroclor 1221	4	Averaged	2.86	2.826	2.894	1103515.20	1064332.00	-3.5508
Aroclor 1221	5	Averaged	2.923	2.889	2.957	3343089.15	3340864.00	-0.0666
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	124489760.	-6.5326
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	114721580.	-4.7490

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

SAMPLE NO.

10966332CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/04/2018 Time: 02:15

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

Lab File ID: 050318.B\050318123.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158028

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	2781230.00	3.2158
Aroclor 1232	2	Averaged	3.593	3.558	3.626	1418110.00	1458076.00	2.8183
Aroclor 1232	3	Averaged	3.908	3.874	3.942	4136332.00	4270836.00	3.2518
Aroclor 1232	4	Averaged	4.012	3.977	4.045	1788600.00	1839284.00	2.8337
Aroclor 1232	5	Averaged	4.078	4.044	4.112	1171600.00	1214890.00	3.6949
Decachlorobiphenyl (S)		Averaged	8.658	8.623	8.691	133190612.	126519200.	-5.0089
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	118315960.	-1.7646

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

SAMPLE NO.

10966334CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/04/2018 Time: 03:52

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

Lab File ID: 050318.B\050318135.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158028

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.394	3.362	3.43	2420361.20	2556802.00	5.6372
Aroclor 1242	2	Averaged	3.593	3.558	3.626	2461220.20	2596502.00	5.4965
Aroclor 1242	3	Averaged	3.908	3.875	3.943	7255531.45	7624718.00	5.0883
Aroclor 1242	4	Averaged	4.012	3.977	4.045	3116237.30	3261904.00	4.6744
Aroclor 1242	5	Averaged	4.077	4.044	4.112	2093297.05	2173924.00	3.8517
Decachlorobiphenyl (S)		Averaged	8.659	8.623	8.691	133190612.	125335520.	-5.8976
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	115207840.	-4.3452

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.

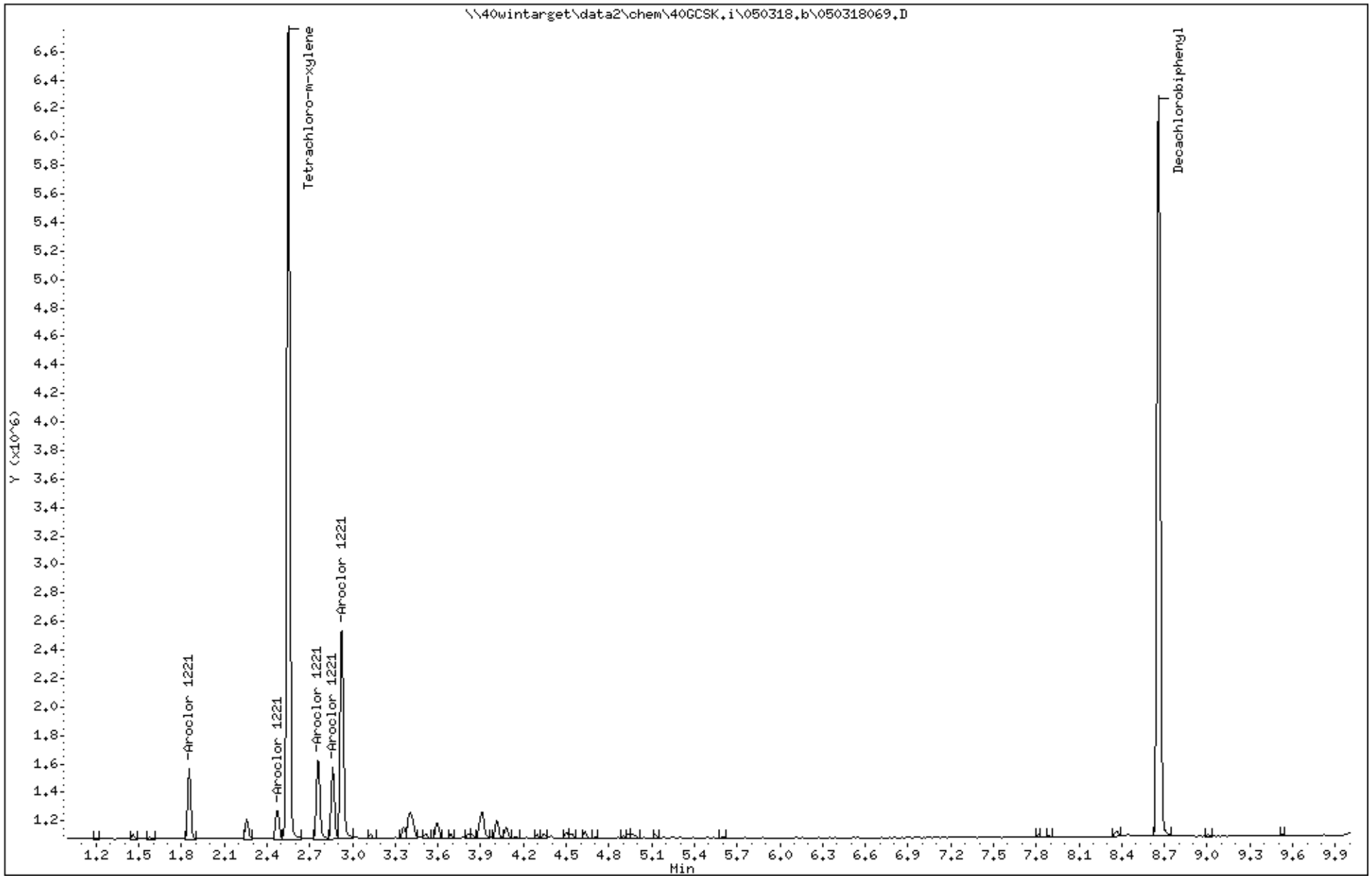
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Date : 03-MAY-2018 18:58
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSK.i

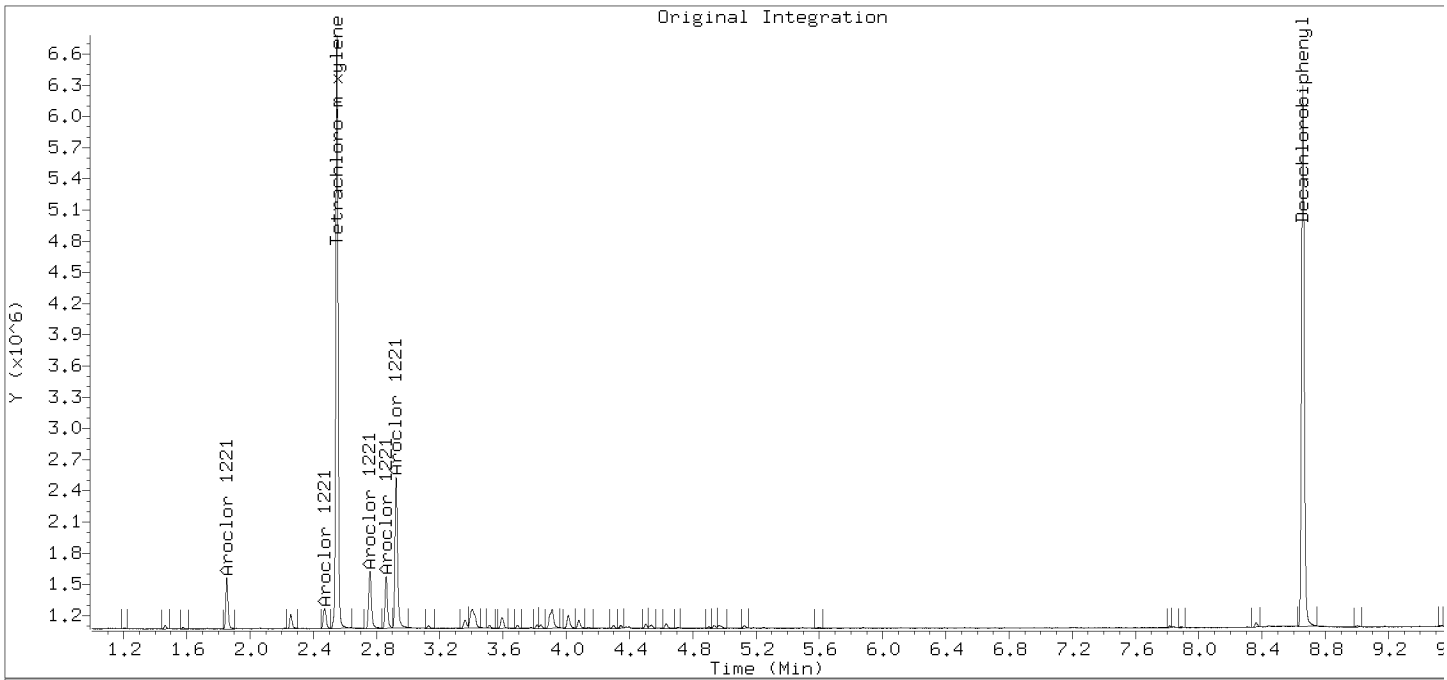
Operator: BLM

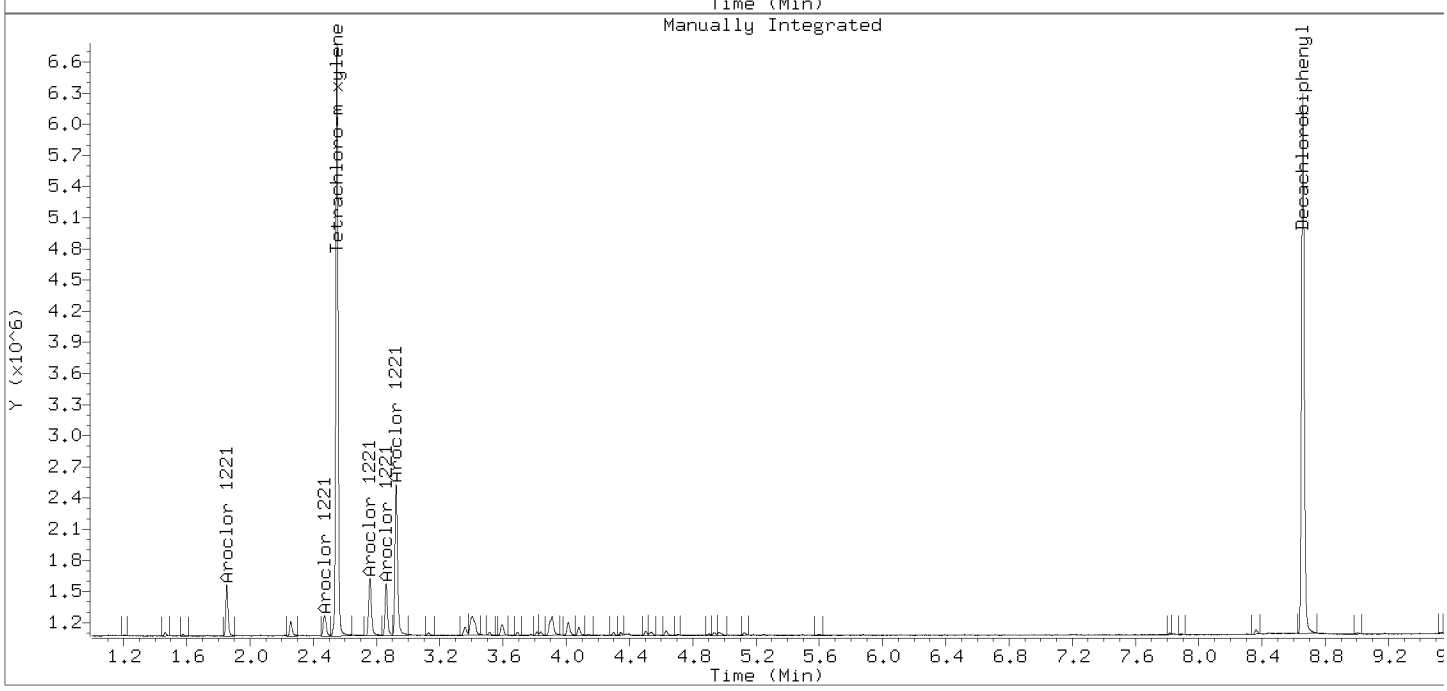
Column phase: ZB-1ms

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

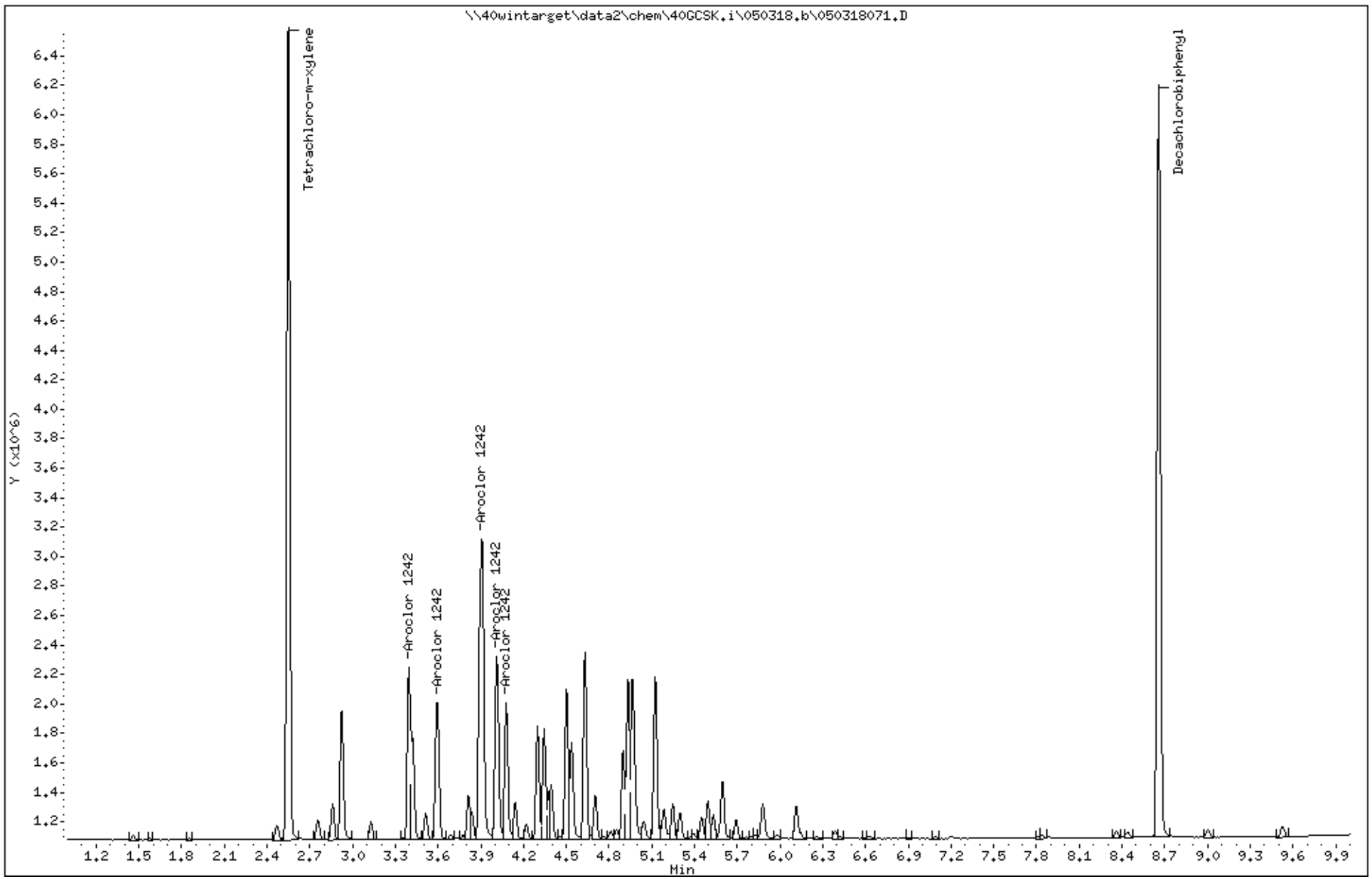
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

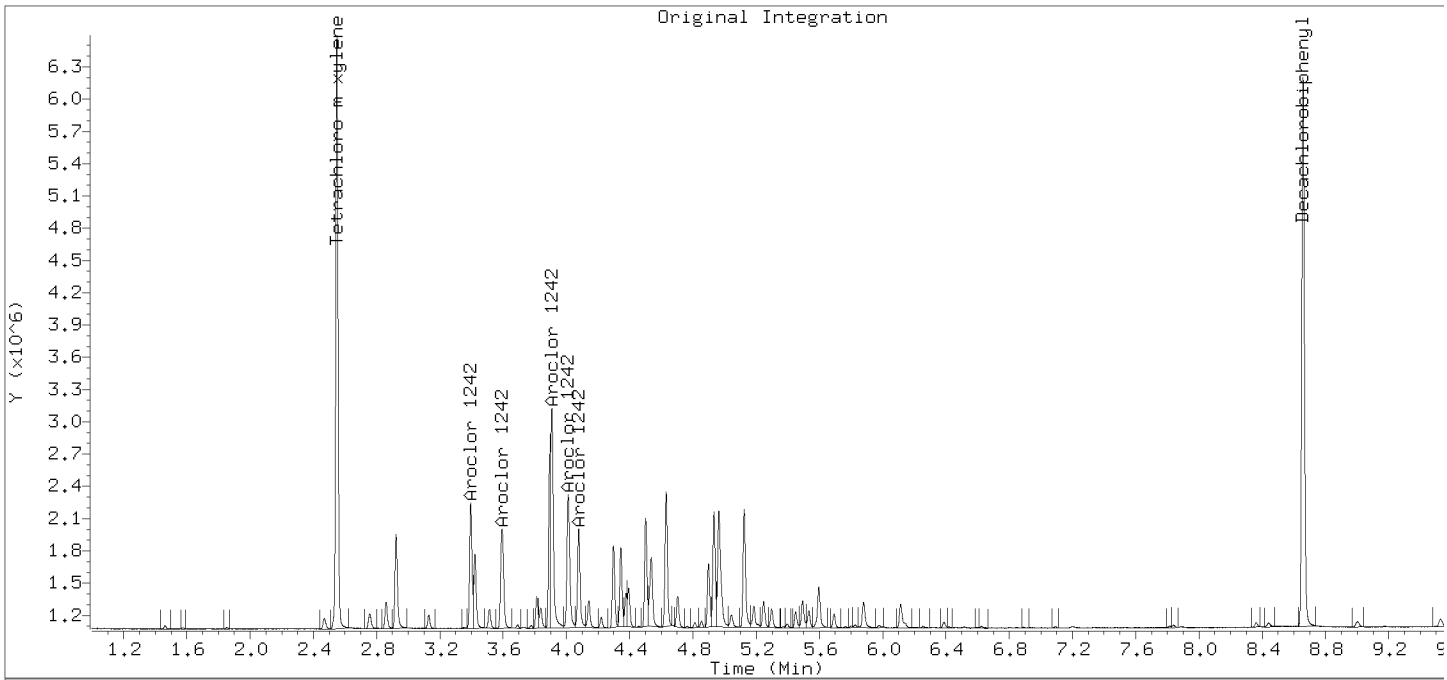
Instrument: 40GCSK.i

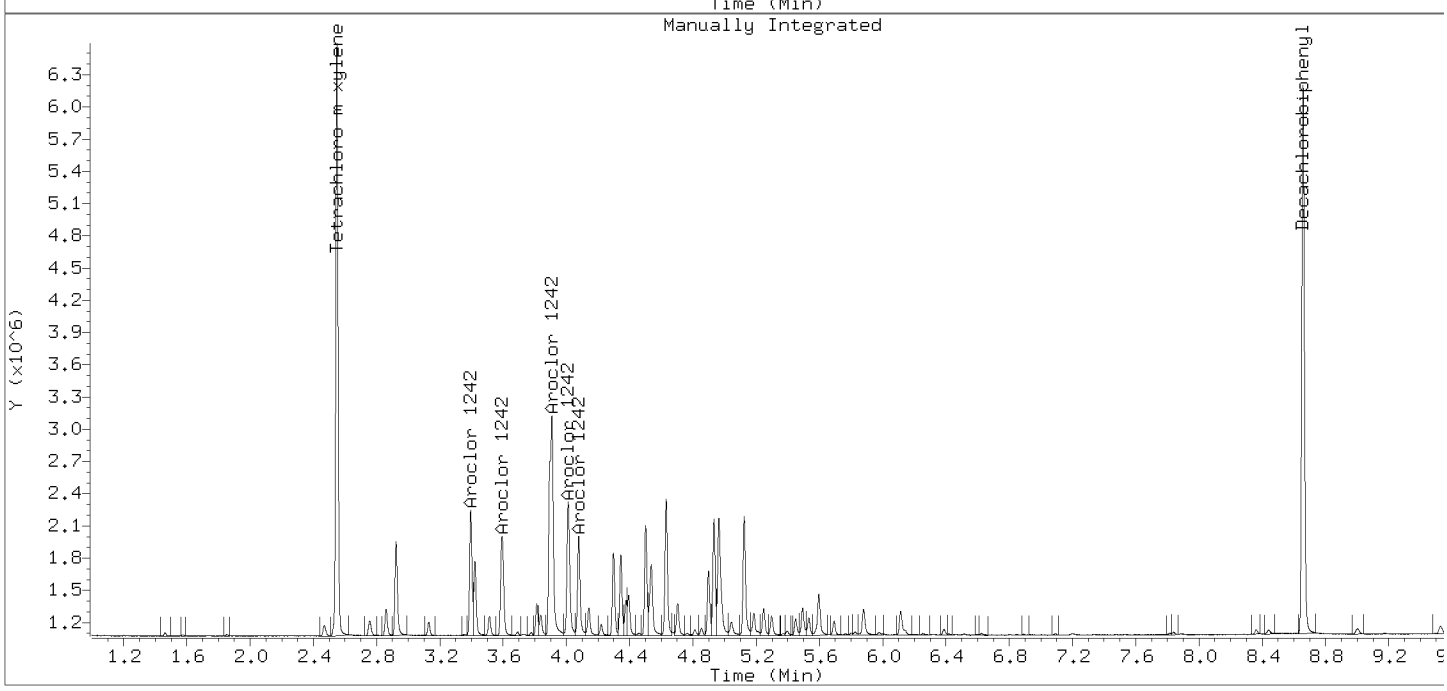
Operator: BLM

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

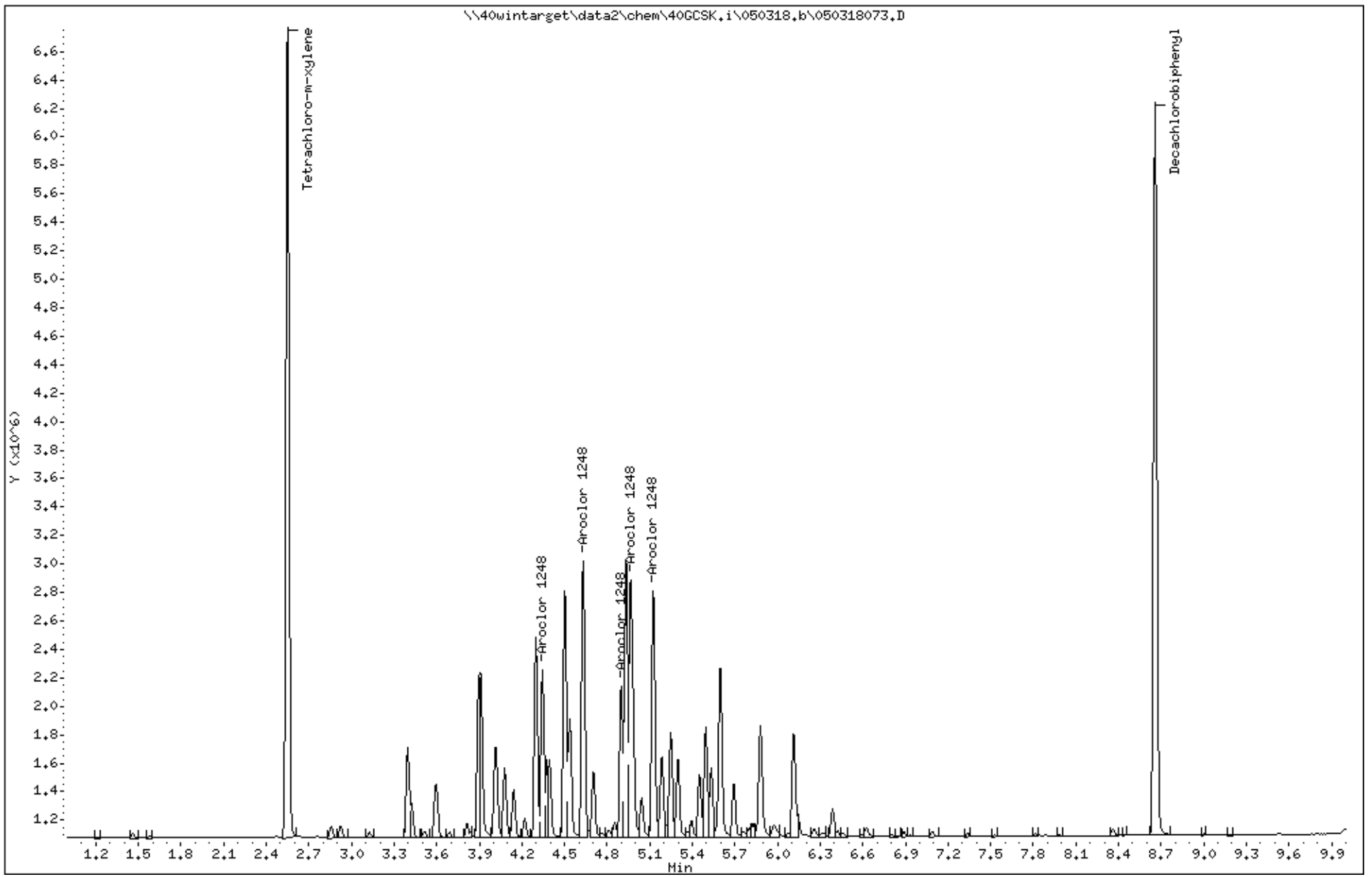
Instrument: 40GCSK.i

Sample Info: 1248-ICV, 185563:1

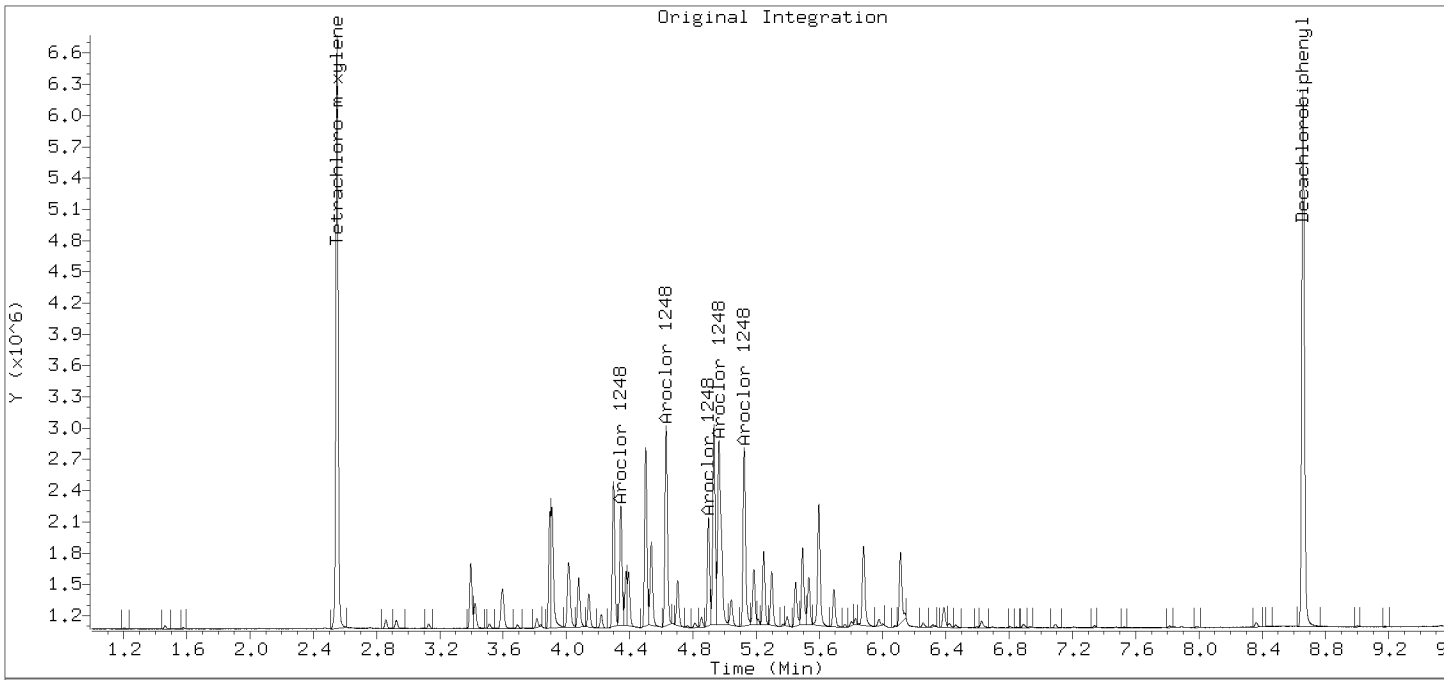
Operator: BLM

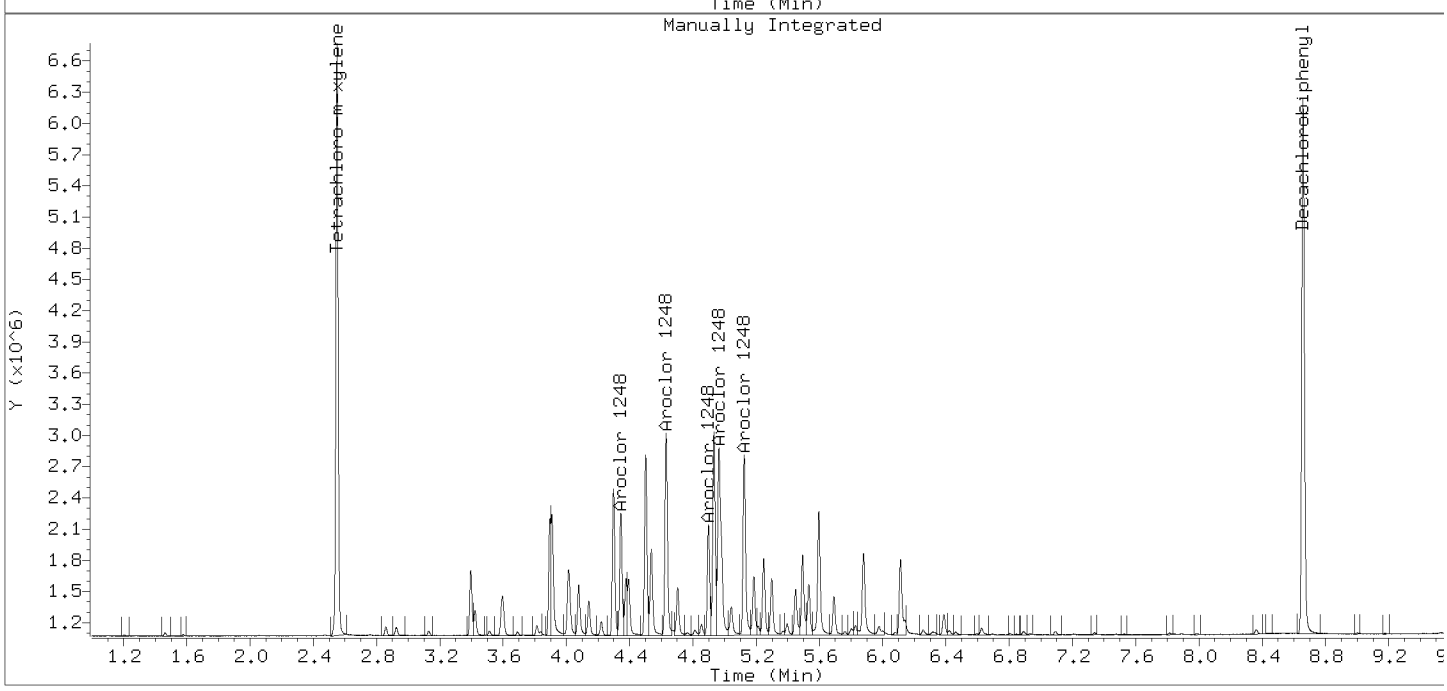
Column phase: ZB-1ms

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

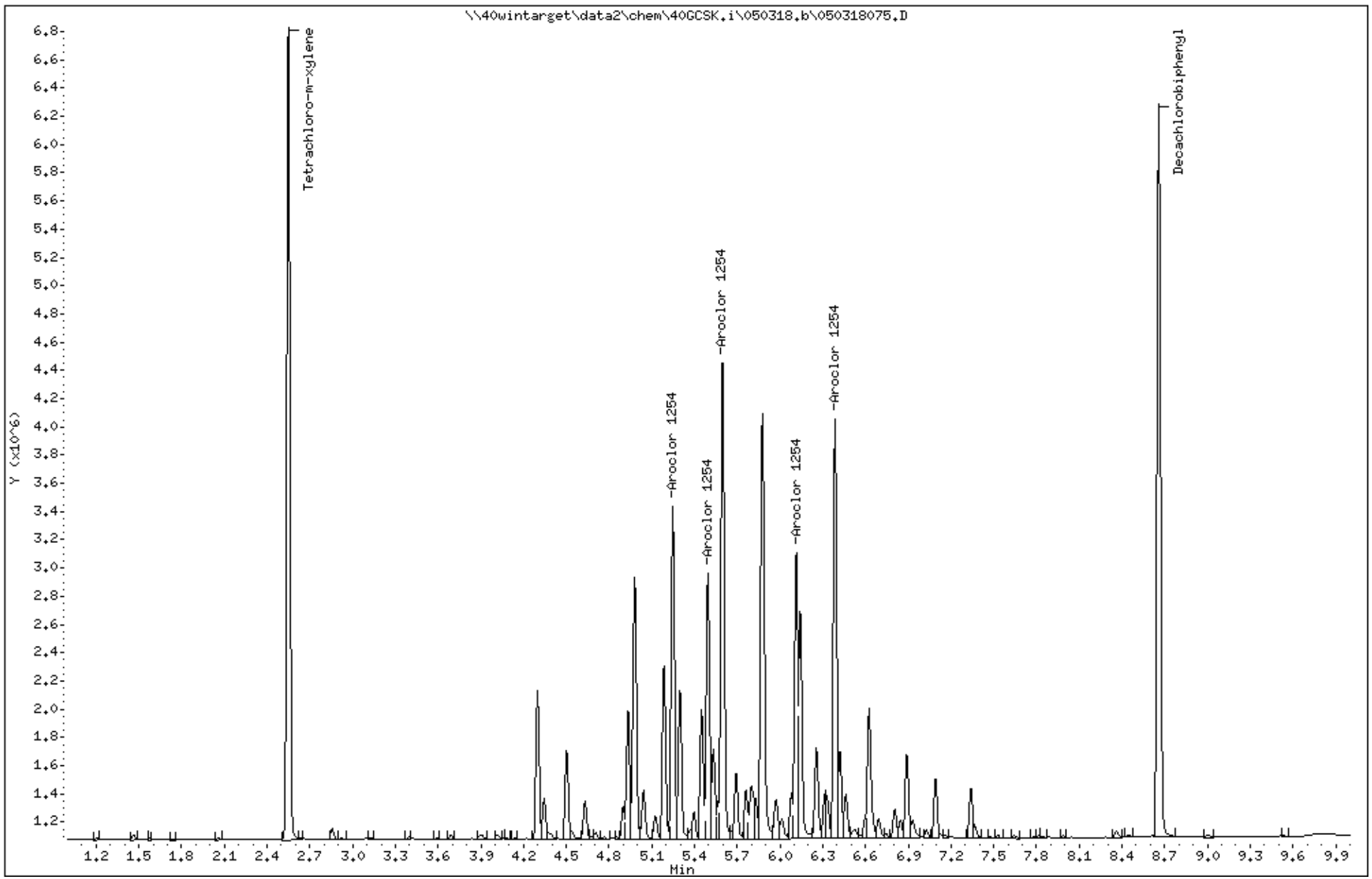
Instrument: 40GCSK.i

Sample Info: 1254-ICV, 185564:1

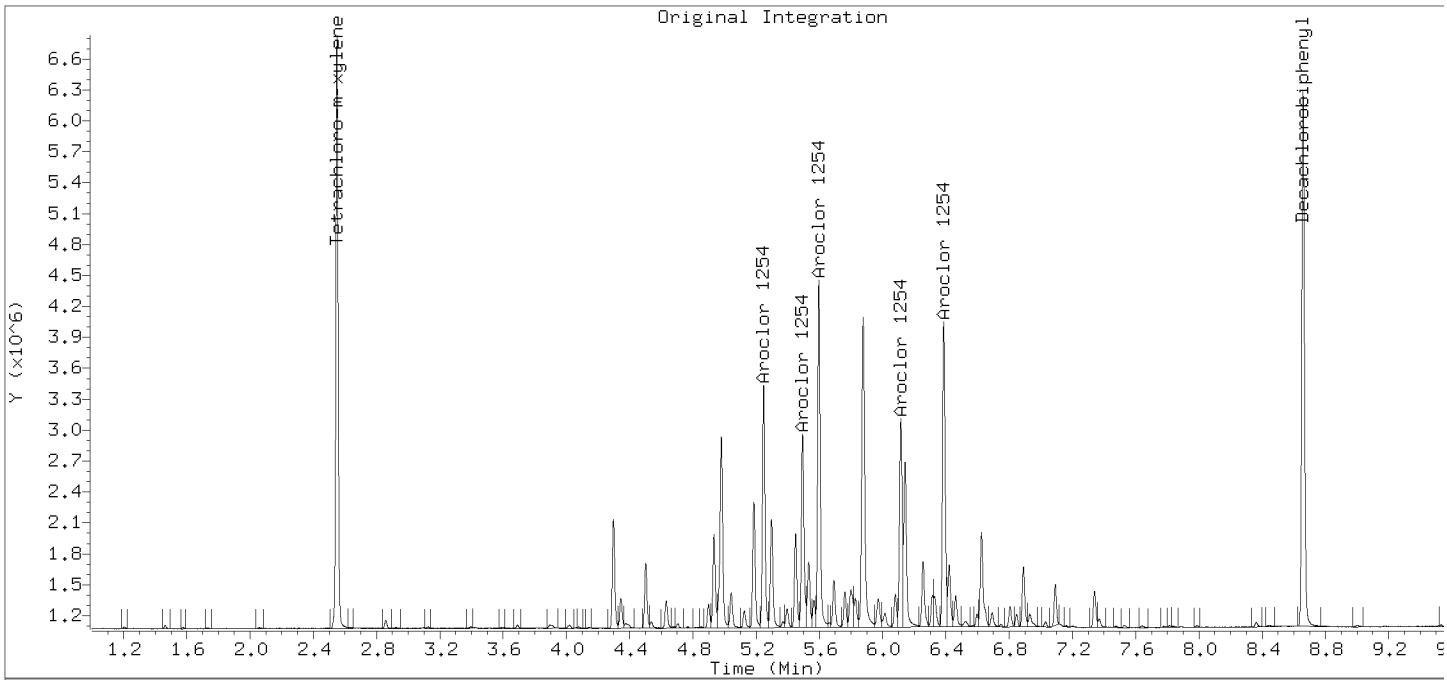
Operator: BLM

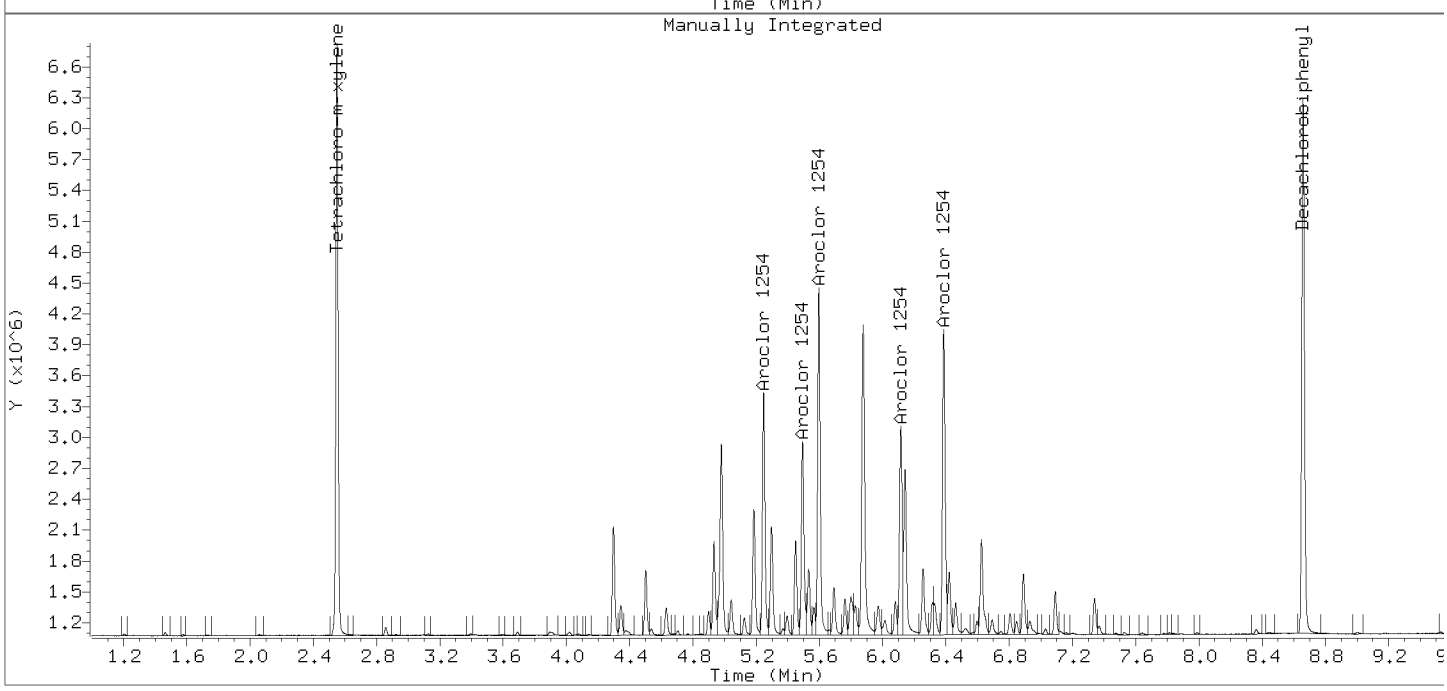
Column phase: ZB-1ms

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.

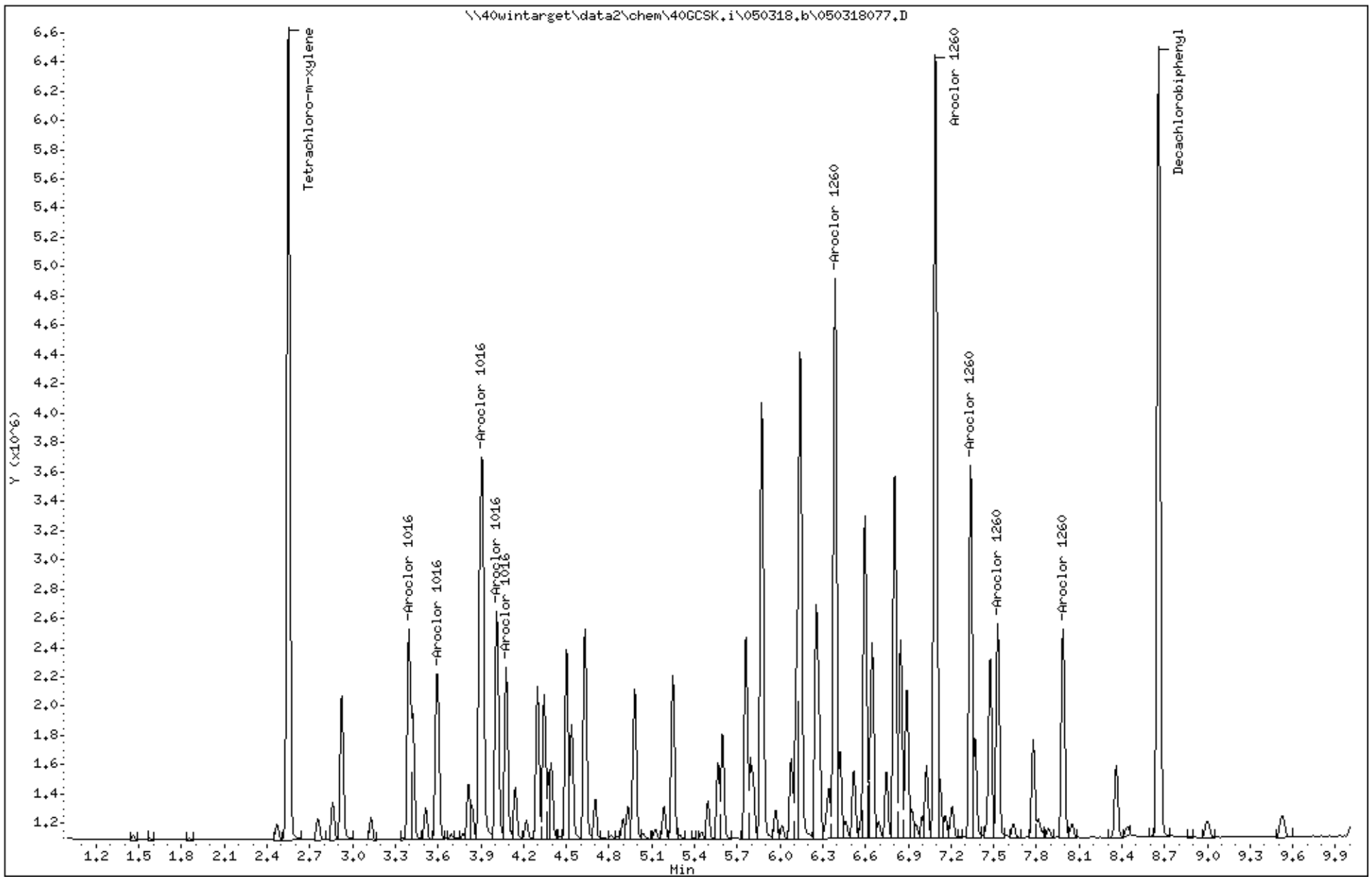
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Date : 03-MAY-2018 20:03
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

Instrument: 40GCSK.i

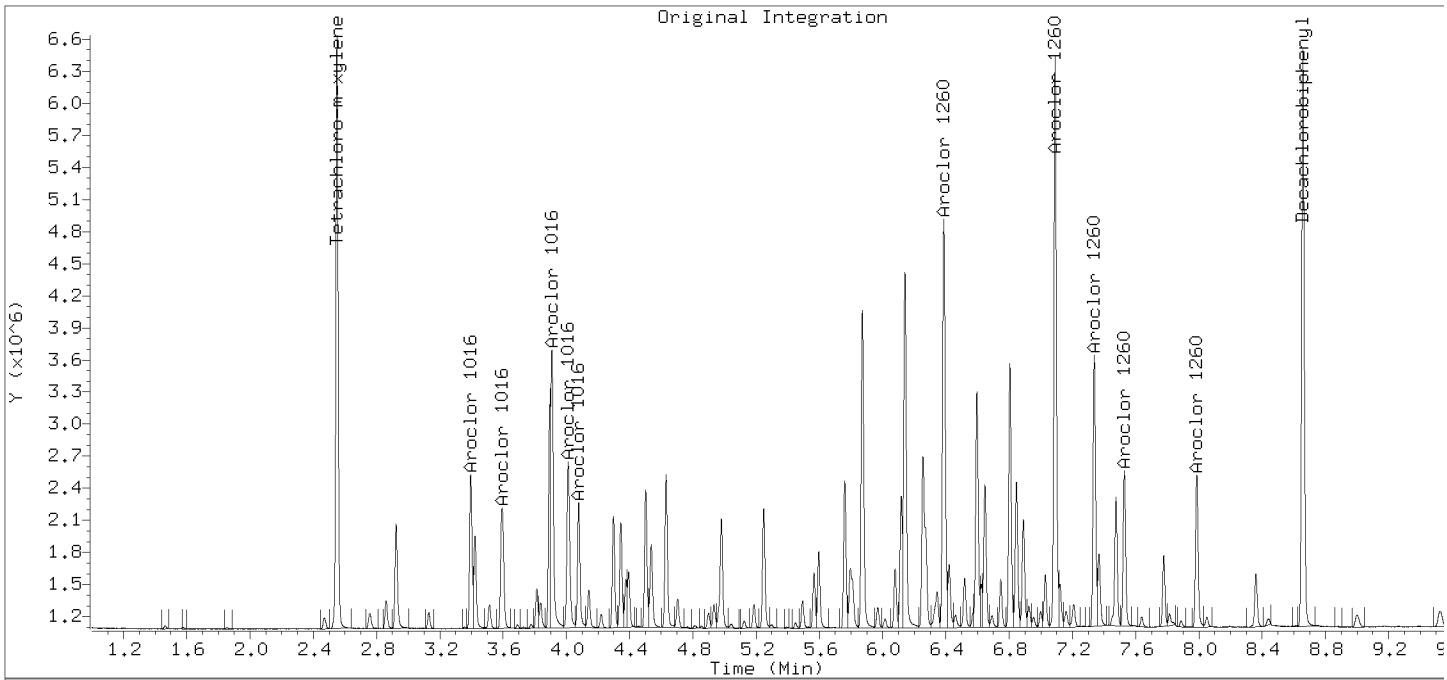
Operator: BLM

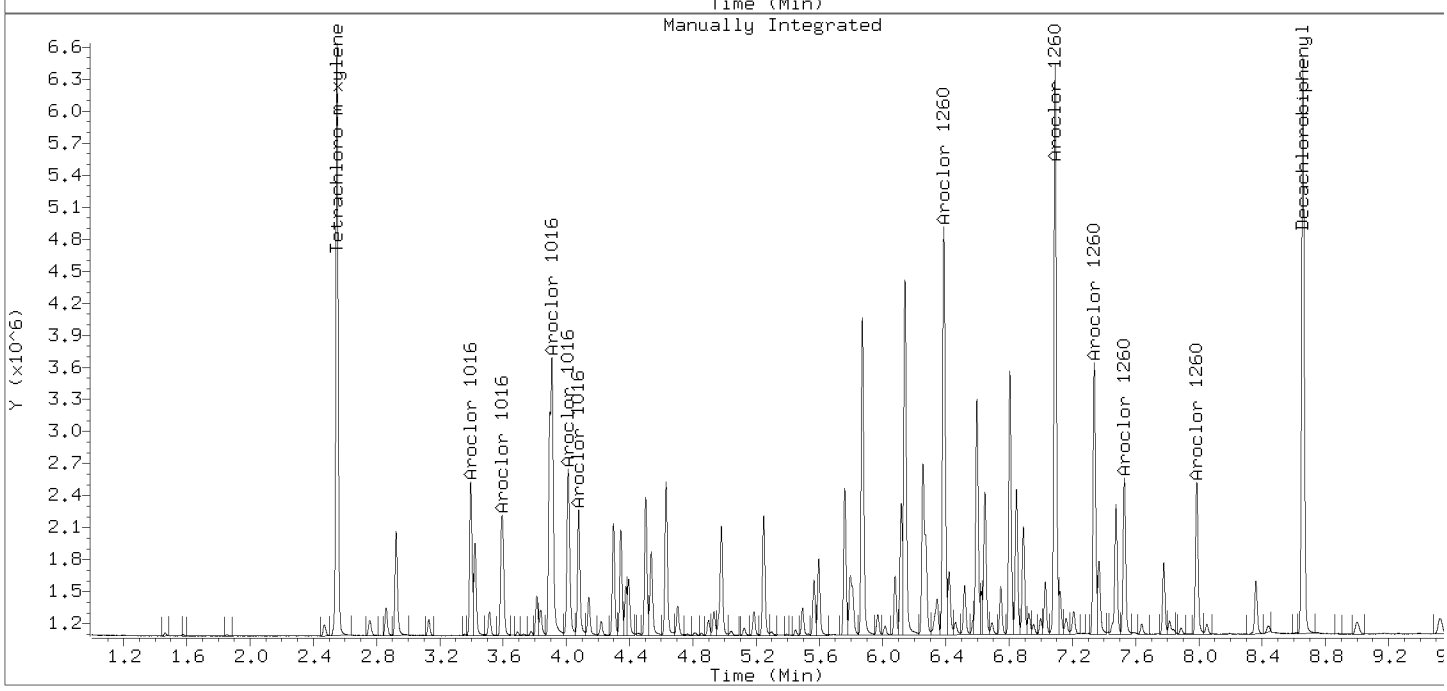
Column phase: ZB-1ms

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\050318.b\050318099.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-MAY-2018 23:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 99 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
1.203	11603	14311	1.233	0.06		
1.463	32786	34166	1.042	0.17		
1.577	22315	16418	0.736	0.12		
1.731	27728	27783	1.002	0.15		
1.853	484699	465184	0.960	2.64	1 Aroclor 1221	BA
2.259	158416	137609	0.869	0.86		
2.472	256779	190807	0.743	1.40	1 Aroclor 1221	BA
2.550	5736080	5716281	0.997	31.33	$ 2 Tetrachloro-m-xylene	BA
2.758	696067	544480	0.782	3.80	1 Aroclor 1221	BA
2.861	532167	494310	0.929	2.90	1 Aroclor 1221	BA
2.923	1670433	1438350	0.861	9.12	1 Aroclor 1221	BA
3.130	38560	29367	0.762	0.21		
3.360	114458	83157	0.727	0.62		
3.404	407772	195742	0.480	2.22		
3.514	38347	31232	0.814	0.20		
3.594	135704	100789	0.743	0.74		
3.691	39741	38742	0.975	0.21		
3.811	36678	35963	0.981	0.20		
3.839	45465	34910	0.768	0.24		
3.910	314469	189353	0.602	1.71		
4.013	163439	125058	0.765	0.89		
4.078	97262	84280	0.867	0.53		
4.136	47185	34326	0.727	0.25		
4.299	30421	30493	1.002	0.16		
4.345	30975	31015	1.001	0.16		
4.376	12953	16639	1.285	0.07		
4.395	16842	16777	0.996	0.09		
4.504	43403	40701	0.938	0.23		
4.536	51285	32758	0.639	0.28		
4.630	50785	46717	0.920	0.27		
4.702	14448	14704	1.018	0.07		
4.898	21611	20360	0.942	0.11		
4.934	37858	34842	0.920	0.20		
4.965	56191	34205	0.609	0.30		
5.126	39960	32039	0.802	0.21		
5.597	13377	12329	0.922	0.07		
6.281	18776	13154	0.701	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.508	21298	11041	0.518	0.11	
7.193	12976	12312	0.949	0.07	
7.818	11113	16507	1.485	0.06	
7.838	47332	33134	0.700	0.25	
8.362	49272	44416	0.901	0.26	
8.440	81259	51906	0.639	0.44	
8.657	6224488	5360752	0.861	34.23	$ 12 Decachlorobiphenyl
9.000	127743	80457	0.630	0.69	
9.172	10396	10281	0.989	0.05	
9.524	174606	104002	0.596	0.95	
	18307522	16164159		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318099.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-MAY-2018 23:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 99 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	5736079	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.853	1.853	0.000	484698	0.50000	0.49	0.00- 20.00	100.00(M)	BA
2.471	2.471	0.000	256779	0.50000	0.49	0.00- 20.00	52.98	BA
2.758	2.758	0.000	696067	0.50000	0.50	0.00- 20.00	143.61	BA
2.860	2.860	0.000	532166	0.50000	0.48	0.00- 20.00	109.79	BA
2.923	2.923	0.000	1670432	0.50000	0.50	0.00- 20.00	344.63	BA
Average of Peak Amounts =					0.49200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6224488	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.

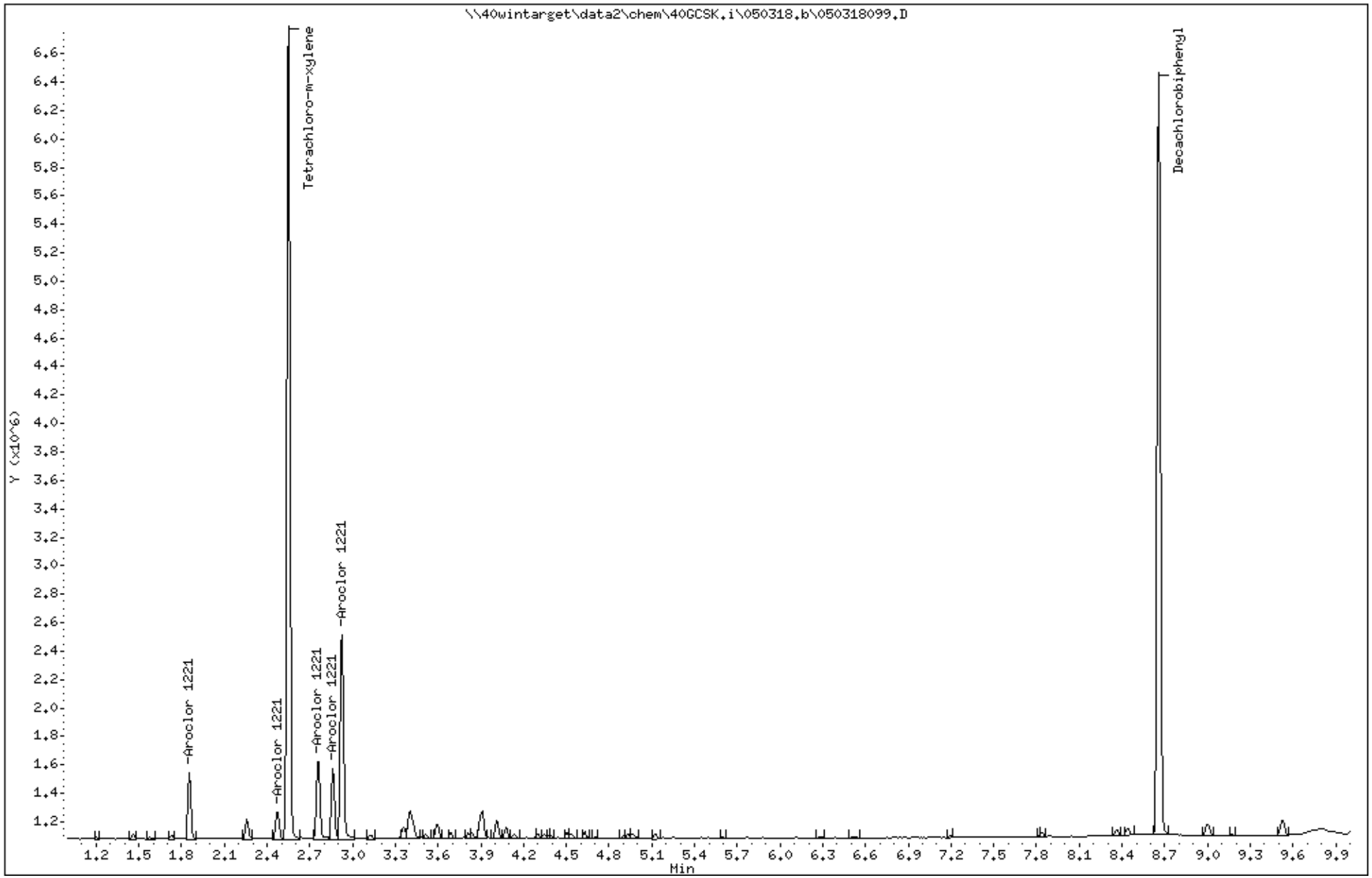
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318099.D
Date : 03-MAY-2018 23:01
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

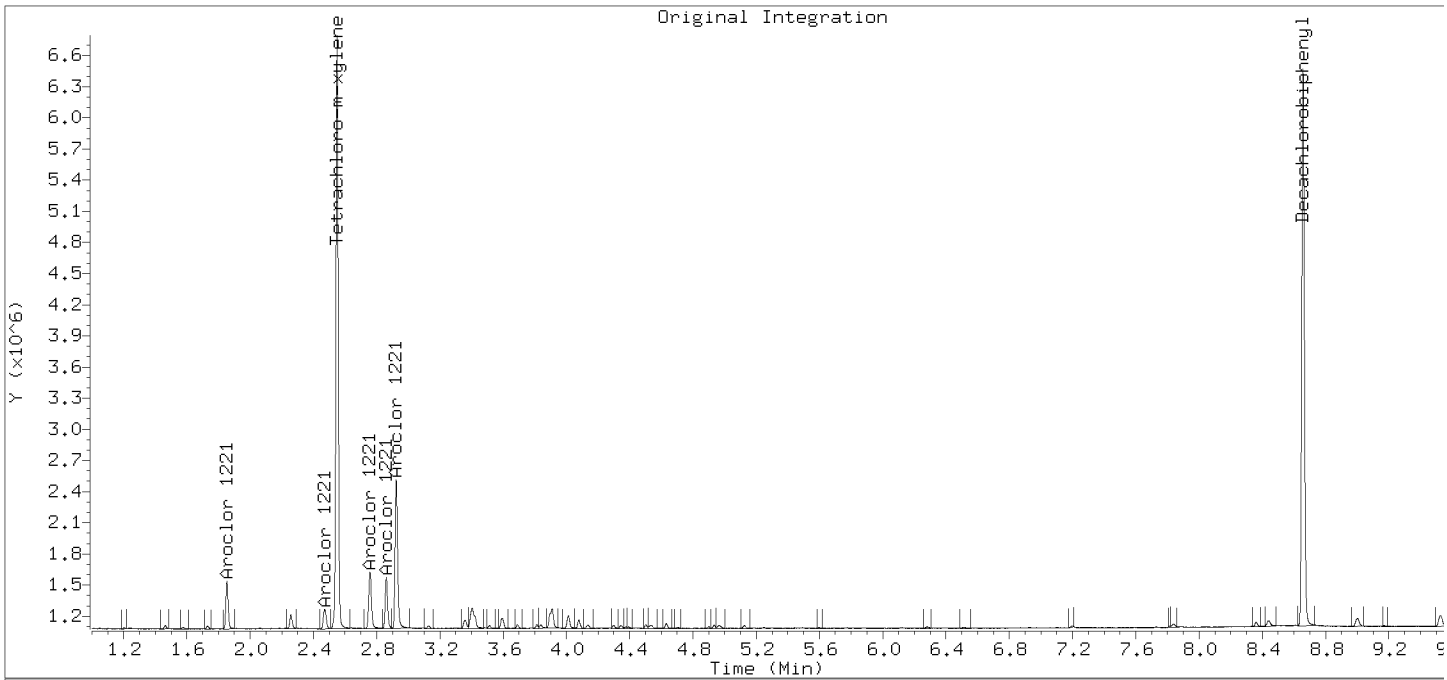
Operator: BLM

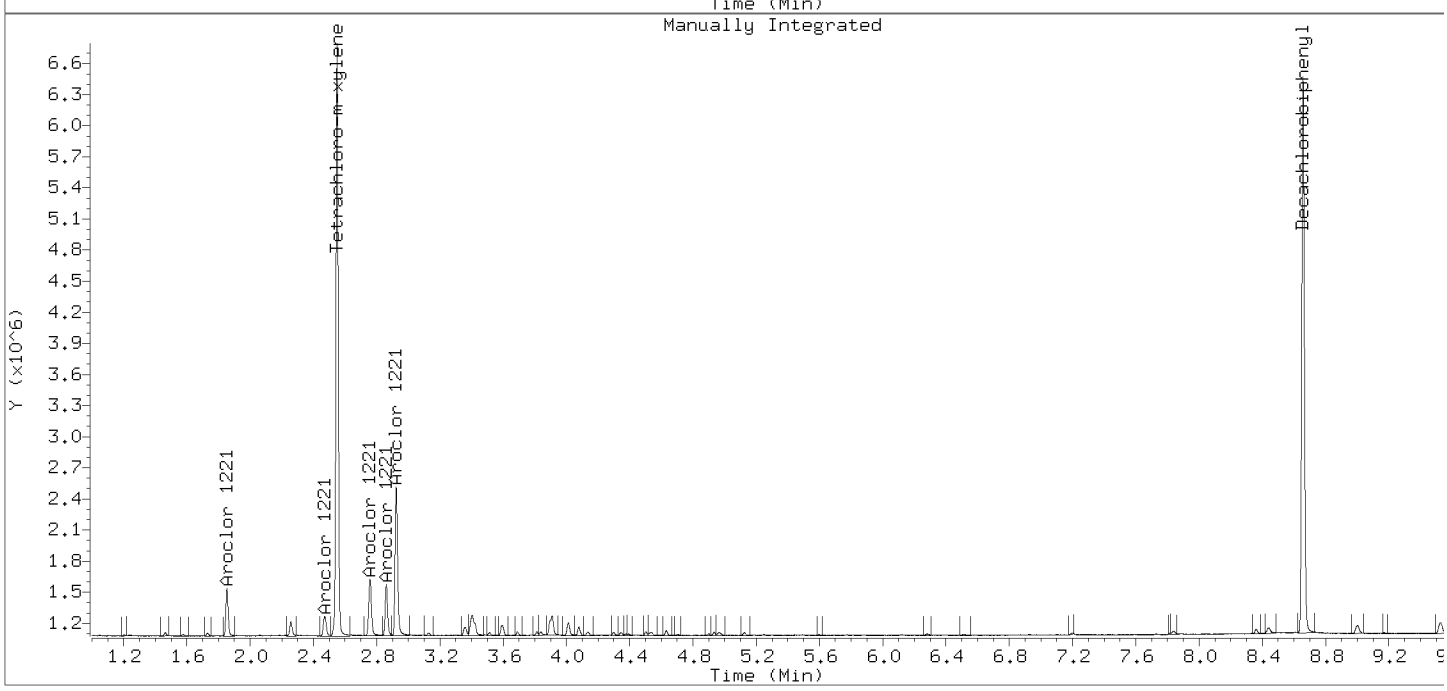
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318099.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-MAY-2018 23:01 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	479978	484698	BA
Aroclor 1221	479978	484698	BA
Aroclor 1221	479978	484698	BA
Aroclor 1221	479978	484698	BA
Aroclor 1221	479978	484698	BA
Tetrachloro-m-xylene	5707568	5736079	BA
Decachlorobiphenyl	6224488	6224488	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318123.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 04-MAY-2018 02:15
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 23 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
1.204	24439	22312	0.913	0.08		
1.463	38514	33896	0.880	0.12		
1.575	11467	11729	1.023	0.03		
1.731	42161	41446	0.983	0.14		
1.853	293343	274094	0.934	0.98		
2.059	14907	11282	0.757	0.05		
2.258	89307	77359	0.866	0.29		
2.470	197823	153714	0.777	0.66		
2.549	5915799	5831293	0.986	19.84	$ 2 Tetrachloro-m-xylene	
2.637	11146	9562	0.858	0.03		
2.758	451255	359912	0.798	1.51		
2.861	417761	388085	0.929	1.40		
2.923	1390616	1199143	0.862	4.66	4 Aroclor 1232	BA
3.130	90831	79688	0.877	0.30		
3.359	71090	52825	0.743	0.23		
3.396	763268	690671	0.905	2.56		
3.422	483909	411249	0.850	1.62		
3.515	129783	109959	0.847	0.43		
3.593	729038	528301	0.725	2.44	4 Aroclor 1232	BA
3.691	47390	43646	0.921	0.15		
3.777	28056	23100	0.823	0.09		
3.813	192589	182385	0.947	0.64		
3.838	144697	122614	0.847	0.48		
3.909	2135419	1201028	0.562	7.16	4 Aroclor 1232	BA
4.012	919643	744589	0.810	3.08	4 Aroclor 1232	BA
4.078	607446	539938	0.889	2.03	4 Aroclor 1232	BA
4.143	187422	147096	0.785	0.62		
4.221	74877	59102	0.789	0.25		
4.298	437295	407846	0.933	1.46		
4.344	421694	391058	0.927	1.41		
4.376	179732	186637	1.038	0.60		
4.394	223124	203096	0.910	0.74		
4.502	583956	552157	0.946	1.95		
4.537	496094	354581	0.715	1.66		
4.631	763201	697417	0.914	2.56		
4.703	193986	163703	0.844	0.65		
4.760	19717	12758	0.647	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.810	42380	34269	0.809	0.14	
4.853	44995	39691	0.882	0.15	
4.899	347596	329271	0.947	1.16	
4.934	619023	579279	0.936	2.07	
4.964	828592	593452	0.716	2.77	
5.044	96172	66129	0.688	0.32	
5.125	680573	608084	0.893	2.28	
5.185	114099	97999	0.859	0.38	
5.248	148465	128423	0.865	0.49	
5.298	110785	89902	0.812	0.37	
5.394	28142	24896	0.885	0.09	
5.452	110224	77151	0.700	0.36	
5.494	154201	133038	0.863	0.51	
5.532	95174	83810	0.881	0.31	
5.597	262393	188985	0.720	0.88	
5.691	78613	67052	0.853	0.26	
5.765	18186	16281	0.895	0.06	
5.801	18247	14031	0.769	0.06	
5.827	20821	18641	0.895	0.06	
5.878	179459	133623	0.745	0.60	
5.974	23343	16361	0.701	0.07	
6.113	133735	111931	0.837	0.44	
6.256	13380	12789	0.956	0.04	
6.282	24501	20360	0.831	0.08	
6.388	50930	37286	0.732	0.17	
6.514	17741	11446	0.645	0.05	
6.595	17783	14164	0.797	0.05	
6.621	9853	11679	1.185	0.03	
6.647	13122	10454	0.797	0.04	
6.806	15262	15658	1.026	0.05	
6.844	12925	10860	0.840	0.04	
7.092	28085	27142	0.966	0.09	
7.198	11780	10281	0.873	0.03	
7.340	14941	14523	0.972	0.05	
7.730	11997	11446	0.954	0.04	
7.814	21237	19119	0.900	0.07	
7.837	27508	20384	0.741	0.09	
7.892	20270	12744	0.629	0.06	
8.362	54730	49659	0.907	0.18	
8.443	25276	21859	0.865	0.08	
8.658	6325961	5373021	0.849	21.60	$ 12 Decachlorobiphenyl
9.003	53568	32695	0.610	0.17	
9.530	61957	40613	0.656	0.20	
	29810823	25549752		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318123.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 04-MAY-2018 02:15
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 23 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	5915798	0.05000	0.049			
4 Aroclor 1232						CAS #: 1114-16-5		
2.923	2.922	0.001	1390615	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	729038	0.50000	0.51	0.00- 20.00	52.43	BA
3.908	3.908	0.000	2135418	0.50000	0.52	0.00- 20.00	153.56	BA
4.012	4.011	0.001	919642	0.50000	0.51	0.00- 20.00	66.13	BA
4.078	4.078	0.000	607445	0.50000	0.52	0.00- 20.00	43.68	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.658	8.657	0.001	6325960	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.

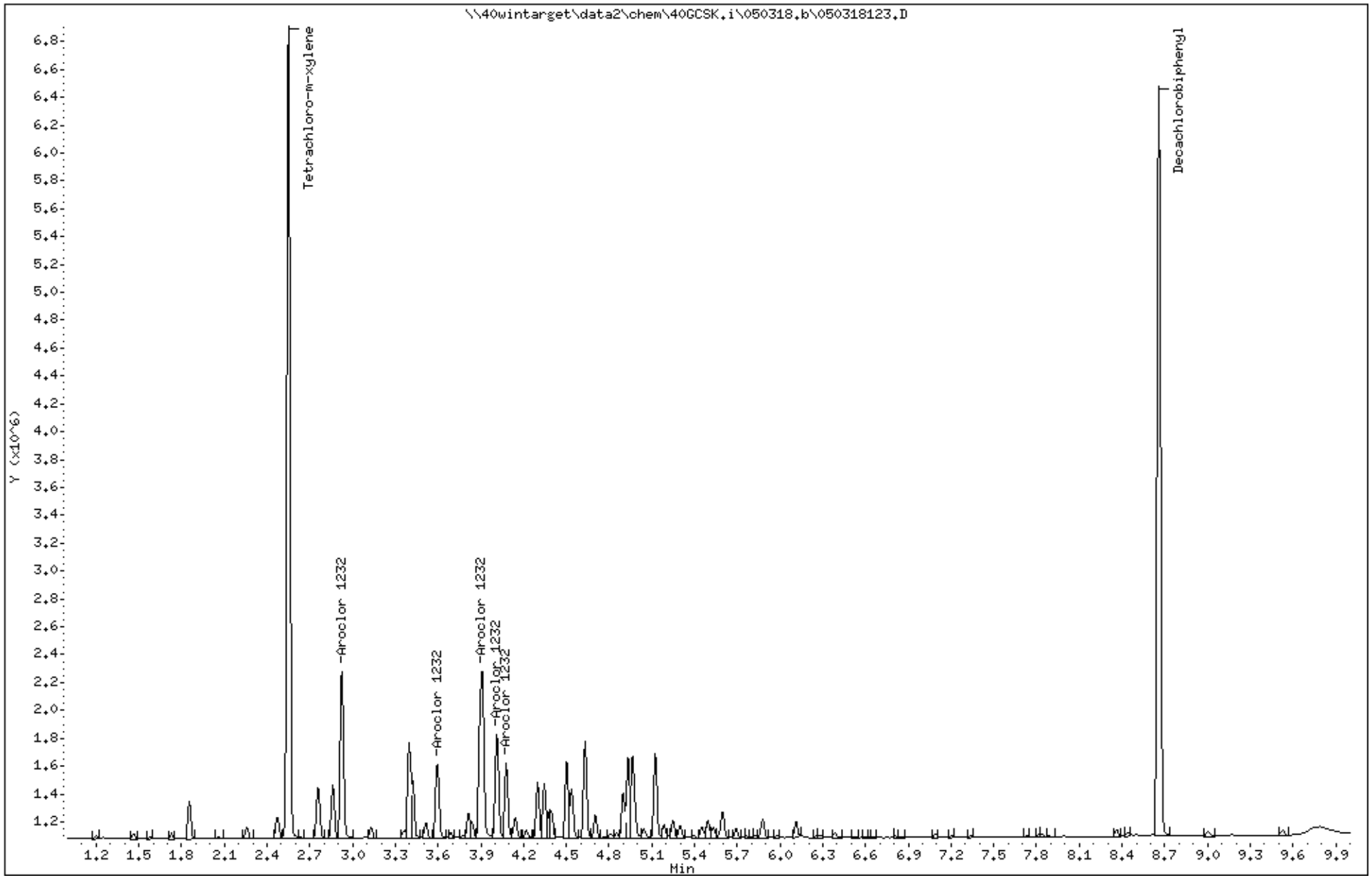
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318123.D
Date : 04-MAY-2018 02:15
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSK.i

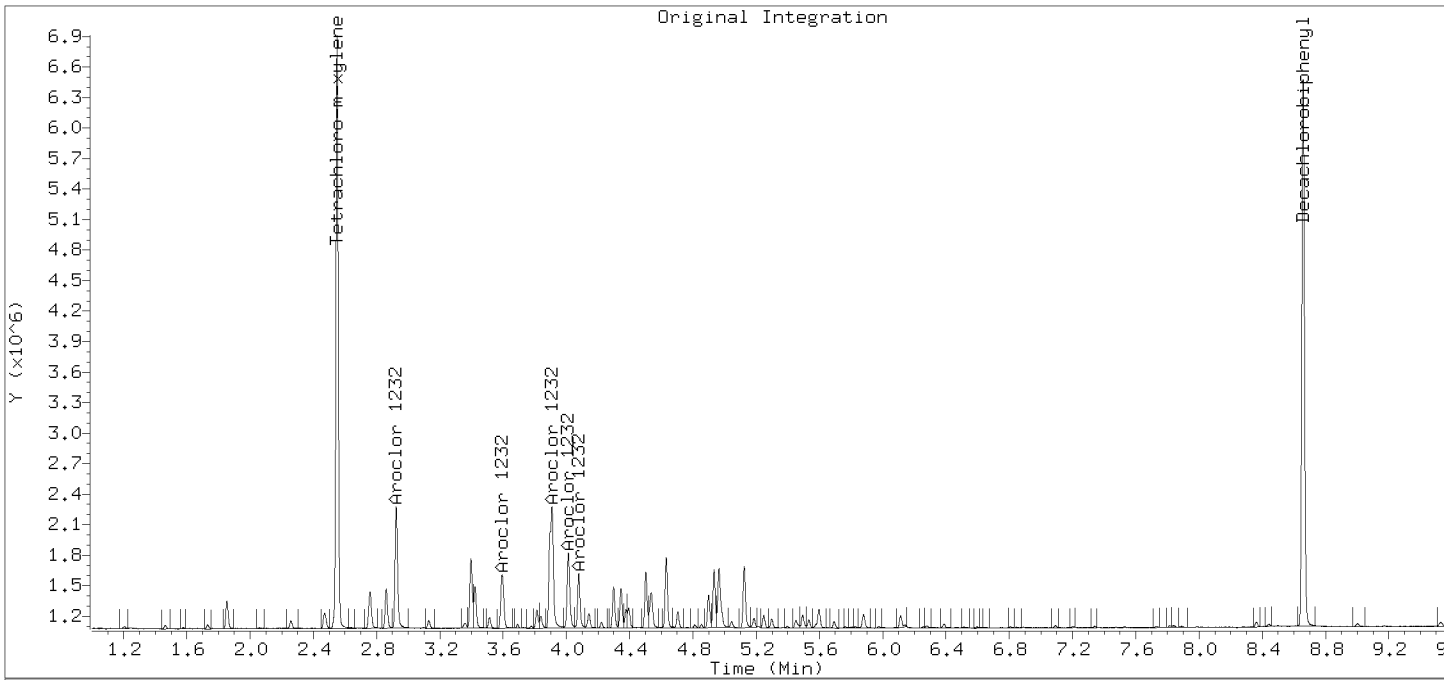
Operator: BLM

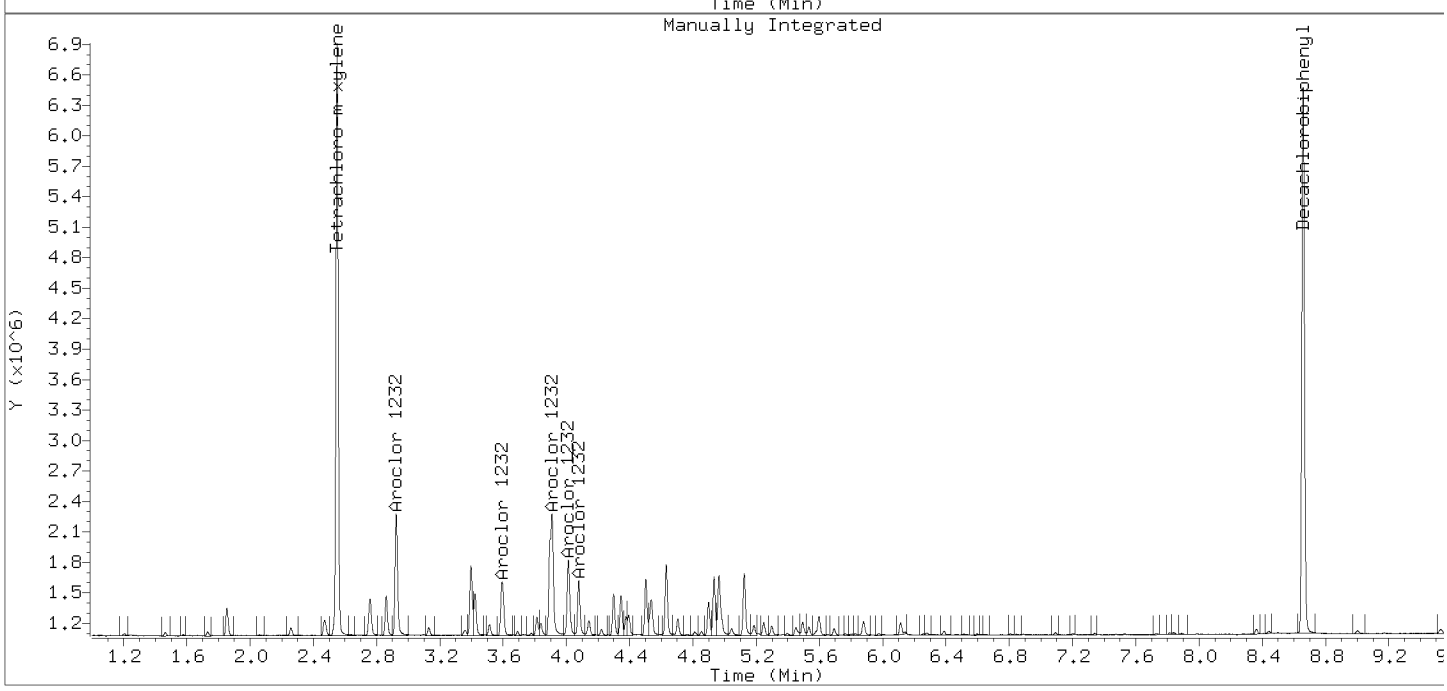
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318123.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 04-MAY-2018 02:15 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1364961	1390615	BA
Aroclor 1232	1364961	1390615	BA
Aroclor 1232	1364961	1390615	BA
Aroclor 1232	1364961	1390615	BA
Aroclor 1232	1364961	1390615	BA
Tetrachloro-m-xylene	5915798	5915798	
Decachlorobiphenyl	6325960	6325960	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318135.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 04-MAY-2018 03:52
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 35 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
1.463	37825	35988	0.951	0.09		
1.576	20679	15703	0.759	0.04		
1.732	36193	37024	1.023	0.08		
1.851	10426	11535	1.106	0.02		
2.469	116446	95052	0.816	0.27		
2.549	5760392	5752981	0.999	13.76	$ 2 Tetrachloro-m-xylene	
2.756	171476	139668	0.815	0.40		
2.860	264046	245474	0.930	0.63		
2.923	955167	878634	0.920	2.28		
3.130	139484	128856	0.924	0.33		
3.357	19570	14985	0.766	0.04		
3.395	1278401	1207882	0.945	3.05	3 Aroclor 1242	BA
3.422	785637	705629	0.898	1.87		
3.514	203910	186565	0.915	0.48		
3.593	1298252	950465	0.732	3.10	3 Aroclor 1242	BA
3.691	40824	41728	1.022	0.09		
3.729	19625	13441	0.685	0.04		
3.777	34053	34994	1.028	0.08		
3.812	322928	318104	0.985	0.77		
3.837	234216	203950	0.871	0.55		
3.909	3812360	2162999	0.567	9.11	3 Aroclor 1242	BA
4.012	1630953	1323308	0.811	3.89	3 Aroclor 1242	BA
4.077	1086962	988928	0.910	2.59	3 Aroclor 1242	BA
4.142	350286	289749	0.827	0.83		
4.221	126799	111283	0.878	0.30		
4.297	898016	838708	0.934	2.14		
4.345	874232	810086	0.927	2.08		
4.376	344386	378705	1.100	0.82		
4.394	467231	433204	0.927	1.11		
4.439	15177	15721	1.036	0.03		
4.455	28263	20111	0.712	0.06		
4.502	1169448	1113538	0.952	2.79		
4.537	982588	698407	0.711	2.34		
4.631	1567434	1363148	0.870	3.74		
4.703	358975	324500	0.904	0.85		
4.765	24892	22893	0.920	0.05		
4.812	78147	65568	0.839	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.855	86462	79034	0.914	0.20	
4.898	748959	724049	0.967	1.78	
4.933	1280849	1208024	0.943	3.06	
4.964	1687664	1222980	0.725	4.03	
5.044	194645	148447	0.763	0.46	
5.124	1376441	1253947	0.911	3.28	
5.185	301279	225463	0.748	0.71	
5.248	341435	297551	0.871	0.81	
5.299	268467	227899	0.849	0.64	
5.371	22234	21378	0.961	0.05	
5.396	58218	47610	0.818	0.13	
5.450	233334	186080	0.797	0.55	
5.494	366112	312792	0.854	0.87	
5.533	236315	207415	0.878	0.56	
5.597	611385	477677	0.781	1.46	
5.692	175926	160975	0.915	0.42	
5.767	21377	18451	0.863	0.05	
5.800	37806	30652	0.811	0.09	
5.827	52634	45296	0.861	0.12	
5.855	16108	22179	1.377	0.03	
5.878	427282	360540	0.844	1.02	
5.976	65908	39801	0.604	0.15	
6.081	13269	14123	1.064	0.03	
6.112	370971	321113	0.866	0.88	
6.141	71878	58473	0.813	0.17	
6.258	22212	21607	0.973	0.05	
6.278	30790	26982	0.876	0.07	
6.313	22409	15927	0.711	0.05	
6.386	116102	100648	0.867	0.27	
6.422	22201	20550	0.926	0.05	
6.463	16185	14603	0.902	0.03	
6.510	26385	14925	0.566	0.06	
6.625	43863	39376	0.898	0.10	
6.887	25311	24202	0.956	0.06	
7.091	17833	11492	0.644	0.04	
7.197	51255	25112	0.490	0.12	
7.819	14128	18936	1.340	0.03	
7.837	55654	38002	0.683	0.13	
7.889	13457	10339	0.768	0.03	
8.362	57810	48799	0.844	0.13	
8.439	75257	52772	0.701	0.17	
8.659	6266776	5402590	0.862	15.40	$ 12 Decachlorobiphenyl
9.003	133048	80323	0.604	0.31	
9.270	10013	7148	0.714	0.02	
9.528	181424	106031	0.584	0.43	
9.773	10106	7981	0.790	0.02	
	41844879	35779808		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318135.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 04-MAY-2018 03:52
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 35 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	5760392	0.05000	0.048			
3 Aroclor 1242					CAS #: 53469-21-9			
3.394	3.396	-0.002	1278401	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1298251	0.50000	0.53	0.00- 20.00	101.55	BA
3.908	3.909	-0.001	3812359	0.50000	0.52	0.00- 20.00	298.21	BA
4.012	4.011	0.001	1630952	0.50000	0.52	0.00- 20.00	127.58	BA
4.077	4.078	-0.001	1086962	0.50000	0.52	0.00- 20.00	85.03	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.657	0.002	6266776	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\050318135.D

Date : 04-MAY-2018 03:52

Client ID: 1242-CCV

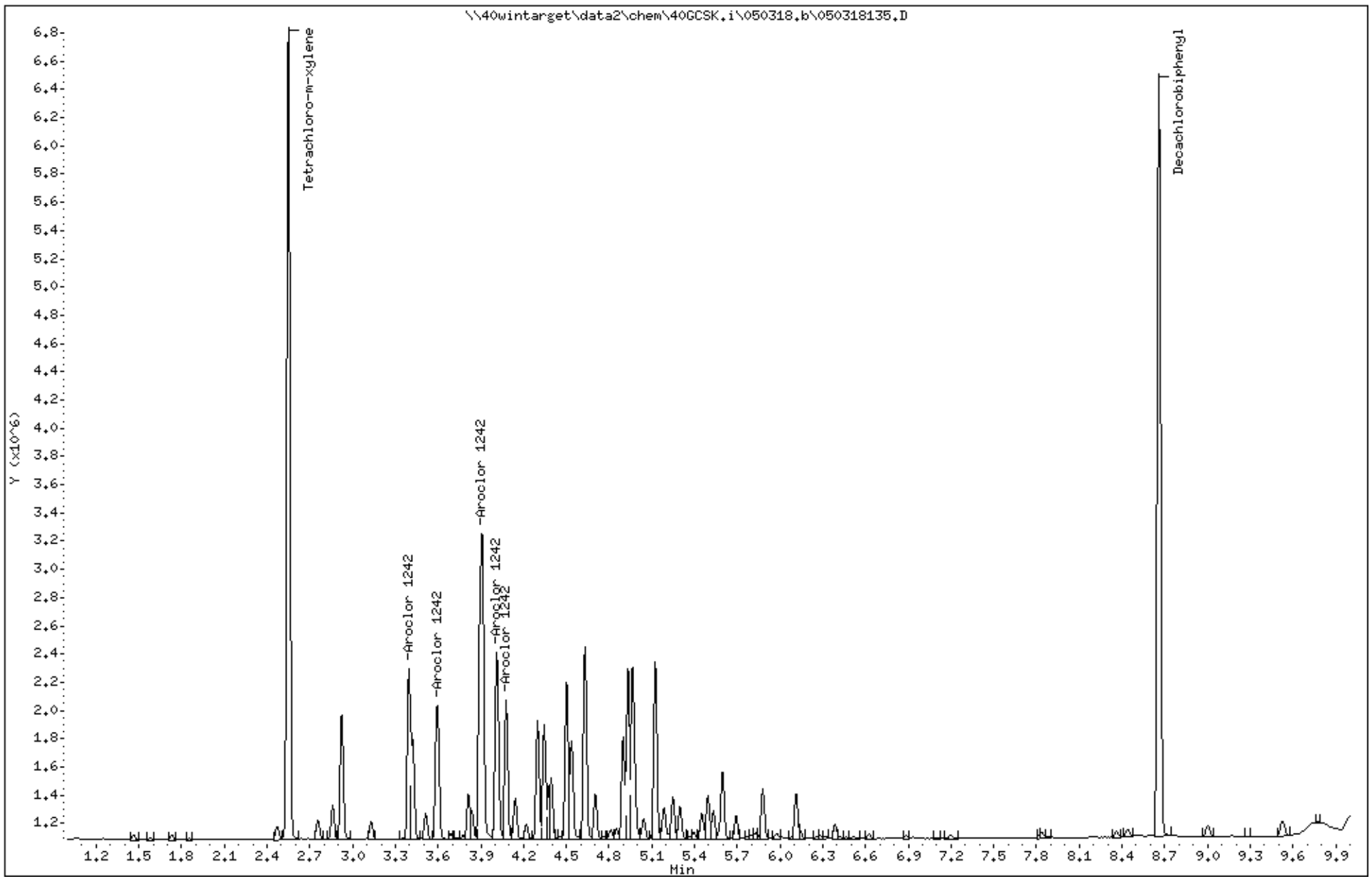
Instrument: 40GCSK.i

Sample Info: 1242-CCV, 185544:1

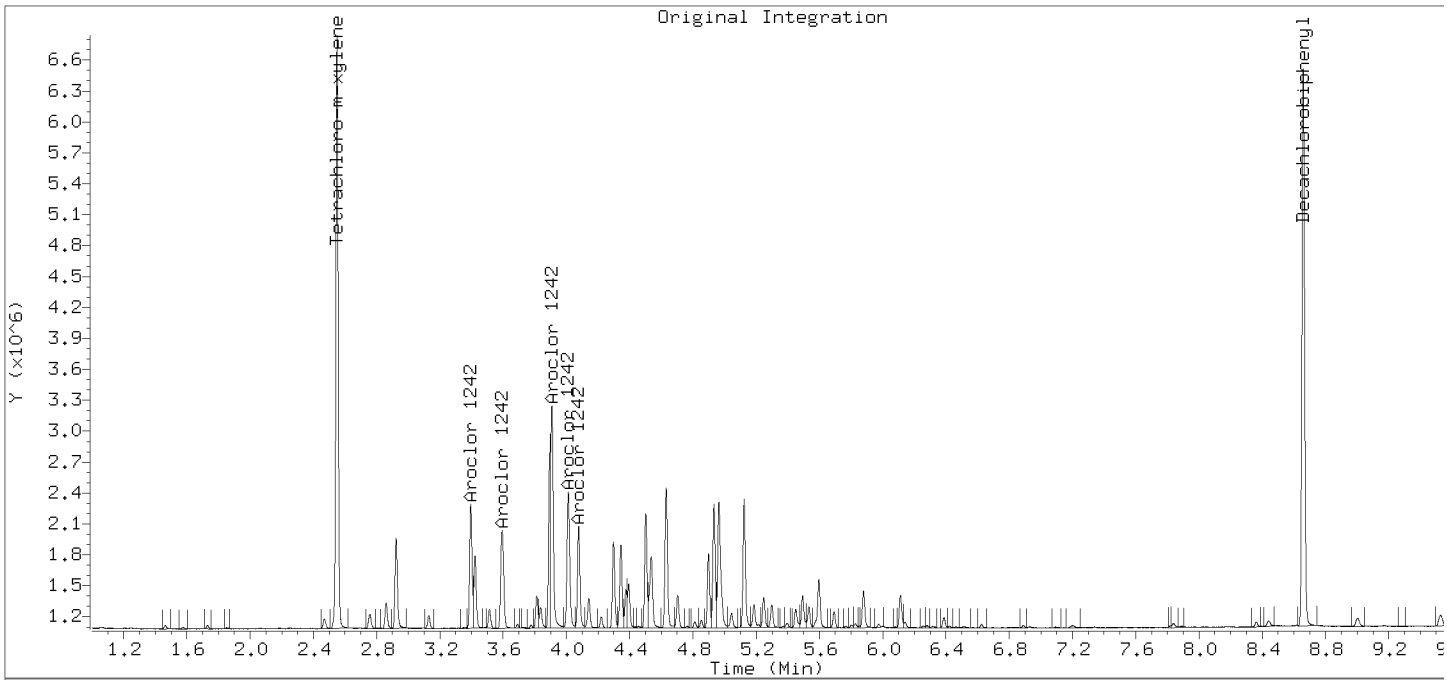
Operator: BLM

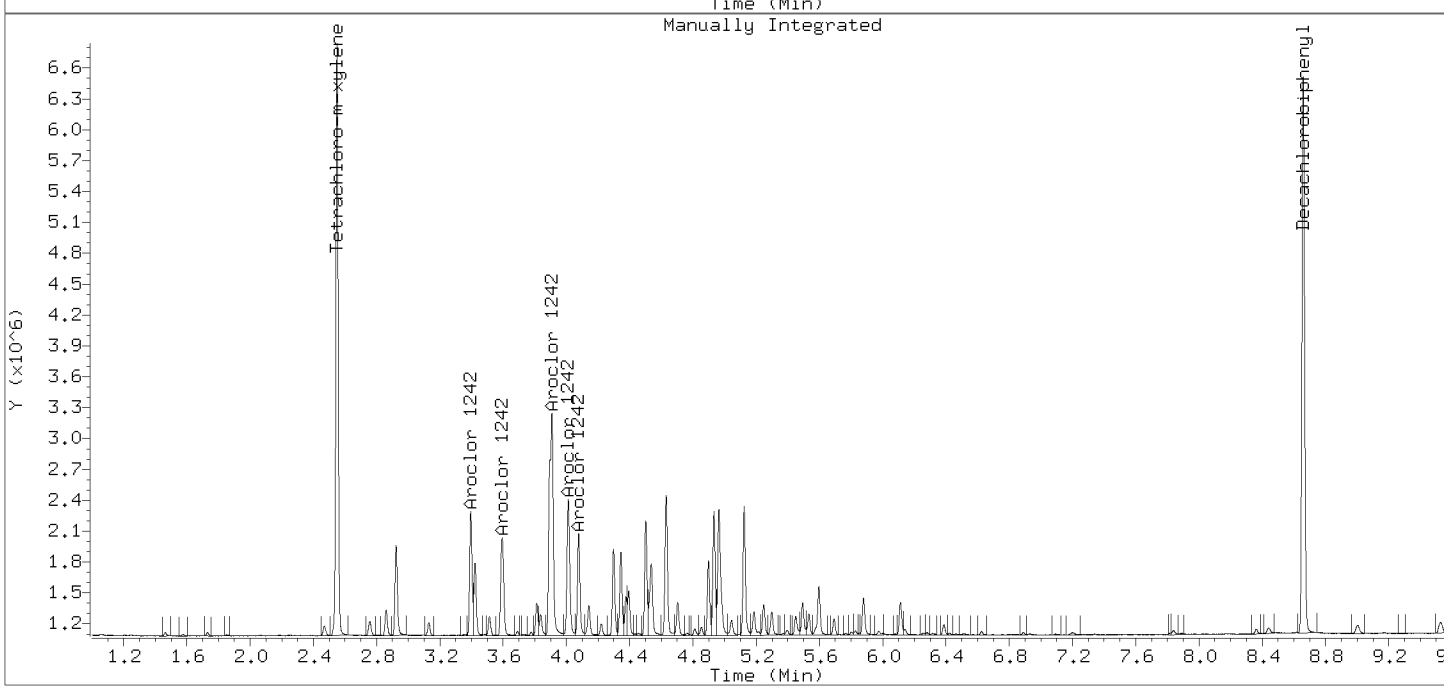
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318135.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 04-MAY-2018 03:52 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1268003	1278401	BA
Aroclor 1242	1268003	1278401	BA
Aroclor 1242	1268003	1278401	BA
Aroclor 1242	1268003	1278401	BA
Aroclor 1242	1268003	1278401	BA
Tetrachloro-m-xylene	5760392	5760392	
Decachlorobiphenyl	6266776	6266776	

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.: 40158028

Date Extracted: 04/27/2018 10:44

Lab Sample ID: 1679886

Date Analyzed: 05/03/2018 20:19

Lab File ID: 050318.B\050318079.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\050318.b\050318079.D
Lab Smp Id: 1679886 Client Smp ID: MB
Inj Date : 03-MAY-2018 20:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679886,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 79 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
1.205	32707	25356	0.775	0.16		
1.731	26300	24576	0.934	0.13		
2.060	13328	11859	0.890	0.06		
2.262	30762	25195	0.819	0.15		
2.549	8146001	8283335	1.017	40.96	$ 2 Tetrachloro-m-xylene	
2.857	22900	17446	0.762	0.11		
2.931	20007	15811	0.790	0.10		
4.136	20896	16566	0.793	0.10		
4.319	15260	12488	0.818	0.07		
4.686	10366	8246	0.796	0.05		
6.389	13958	9474	0.679	0.07		
7.814	34030	27100	0.796	0.17		
8.362	88620	76871	0.867	0.44		
8.658	11296454	9903648	0.877	56.88	$ 12 Decachlorobiphenyl	
9.006	55487	29307	0.528	0.27		
9.530	57278	34296	0.599	0.28		
	19884351	18521574		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318079.D
Lab Smp Id: 1679886 Client Smp ID: MB
Inj Date : 03-MAY-2018 20:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679886,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 79 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	8146000	0.06763		34		

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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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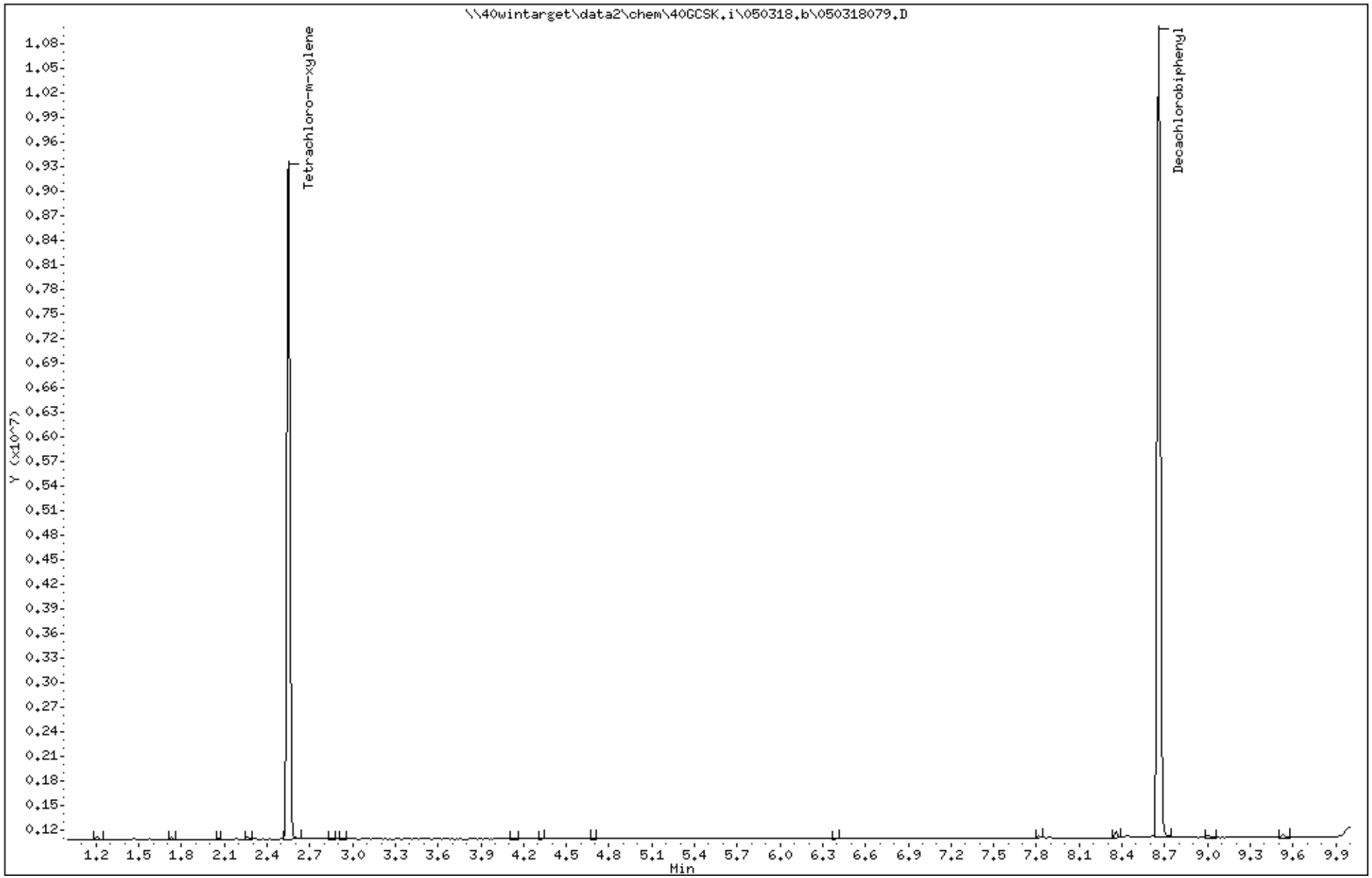
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	11296453	0.08481	42			

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318079.D
Date : 03-MAY-2018 20:19
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1679886,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318079.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 20:19 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1679886

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	8146000	8146000	
Decachlorobiphenyl	11296453	11296453	

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.: 40158028

Date Extracted: 04/27/2018 10:44

Lab Sample ID: 1679887

Date Analyzed: 05/03/2018 20:35

Lab File ID: 050318.B\050318081.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)	234	
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\050318.b\050318081.D
Lab Smp Id: 1679887 Client Smp ID: MBLCS
Inj Date : 03-MAY-2018 20:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679887,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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
1.207	18342	16649	0.908	0.03		
1.732	26403	23027	0.872	0.05		
1.855	14505	11727	0.808	0.03		
2.262	13557	16421	1.211	0.02		
2.470	103808	81834	0.788	0.22		
2.550	9420354	9581489	1.017	20.26	$ 2 Tetrachloro-m-xylene	
2.758	145498	116893	0.803	0.31		
2.861	187243	174006	0.929	0.40		
2.924	869180	782866	0.901	1.86		
3.130	102716	102305	0.996	0.22		
3.357	17626	15130	0.858	0.03		
3.395	1126573	1061667	0.942	2.42	3 Aroclor 1242	BA
3.422	696037	615751	0.885	1.49		
3.514	187087	161082	0.861	0.40		
3.594	1148128	819656	0.714	2.46	3 Aroclor 1242	BA
3.729	18305	15643	0.855	0.03		
3.777	33026	27633	0.837	0.07		
3.813	288324	271327	0.941	0.62		
3.837	208239	181163	0.870	0.44		
3.909	3408850	1870762	0.549	7.33	3 Aroclor 1242	BA
4.012	1472376	1168485	0.794	3.16	3 Aroclor 1242	BA
4.078	972727	853874	0.878	2.09	3 Aroclor 1242	BA
4.142	303308	240164	0.792	0.65		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	123731	96019	0.776	0.26	
4.298	798125	727495	0.912	1.71	
4.345	748861	712959	0.952	1.61	
4.377	305800	308024	1.007	0.65	
4.394	404978	348946	0.862	0.87	
4.455	29884	19370	0.648	0.06	
4.502	1030624	962081	0.933	2.21	
4.536	863514	608373	0.705	1.85	
4.631	1330290	1185091	0.891	2.86	
4.704	332743	277600	0.834	0.71	
4.763	29569	19772	0.669	0.06	
4.812	67627	55920	0.827	0.14	
4.855	78140	65295	0.836	0.16	
4.899	614063	571788	0.931	1.32	
4.933	1117821	1021025	0.913	2.40	
4.965	1475678	1037691	0.703	3.17	
5.043	189880	118891	0.626	0.40	
5.125	1191399	1015509	0.852	2.56	
5.185	264453	187791	0.710	0.56	
5.249	284313	237186	0.834	0.61	
5.297	216634	170550	0.787	0.46	
5.396	47026	38041	0.809	0.10	
5.450	184830	144770	0.783	0.39	
5.494	293484	239519	0.816	0.63	
5.534	184805	154373	0.835	0.39	
5.597	486663	374329	0.769	1.04	
5.692	150030	124103	0.827	0.32	
5.760	21621	15182	0.702	0.04	
5.805	29042	23019	0.793	0.06	
5.828	34359	33047	0.962	0.07	
5.878	337171	239912	0.712	0.72	
5.979	41297	28967	0.701	0.08	
6.113	247207	211868	0.857	0.53	
6.258	17031	13253	0.778	0.03	
6.387	64217	53736	0.837	0.13	
6.418	11994	10260	0.855	0.02	
6.462	10891	9512	0.873	0.02	
6.627	15581	16664	1.070	0.03	
6.804	10344	9196	0.889	0.02	
6.888	13782	11492	0.834	0.02	
7.093	19236	16633	0.865	0.04	
7.529	10819	9293	0.859	0.02	
7.814	23252	25656	1.103	0.05	
7.889	16765	12659	0.755	0.03	
8.361	96194	83812	0.871	0.20	
8.444	17862	11565	0.647	0.03	
8.657	11767536	10252945	0.871	25.67	$ 12 Decachlorobiphenyl
9.001	29765	17513	0.588	0.06	
9.523	11993	11403	0.951	0.02	
9.739	12217	13743	1.125	0.02	
	46487349	40163395		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318081.D
Lab Smp Id: 1679887 Client Smp ID: MBLCS
Inj Date : 03-MAY-2018 20:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679887,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 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	9420353	0.07822	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1126572	0.46546	230	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1148128	0.46649	230	0.00- 20.00	101.91	BA
3.908	3.909	-0.001	3408849	0.46983	230	0.00- 20.00	302.59	BA
4.011	4.011	0.000	1472375	0.47248	240	0.00- 20.00	130.70	BA
4.077	4.078	-0.001	972726	0.46469	230	0.00- 20.00	86.34	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	11767535	0.08835	44	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318081.D

Date : 03-MAY-2018 20:35

Client ID: MBLCS

Instrument: 40GCSK.i

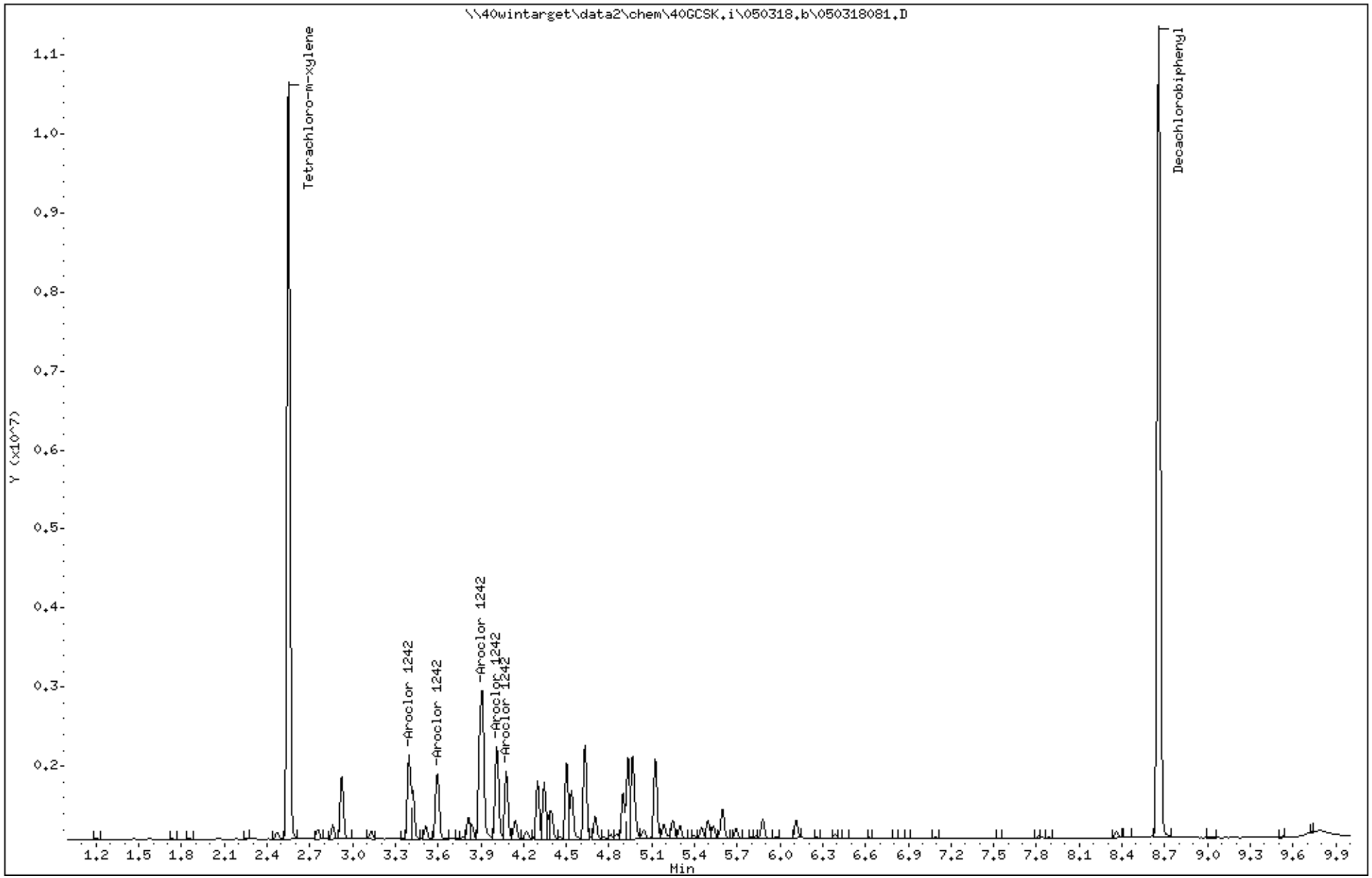
Sample Info: 1679887,

Volume Injected (uL): 1.0

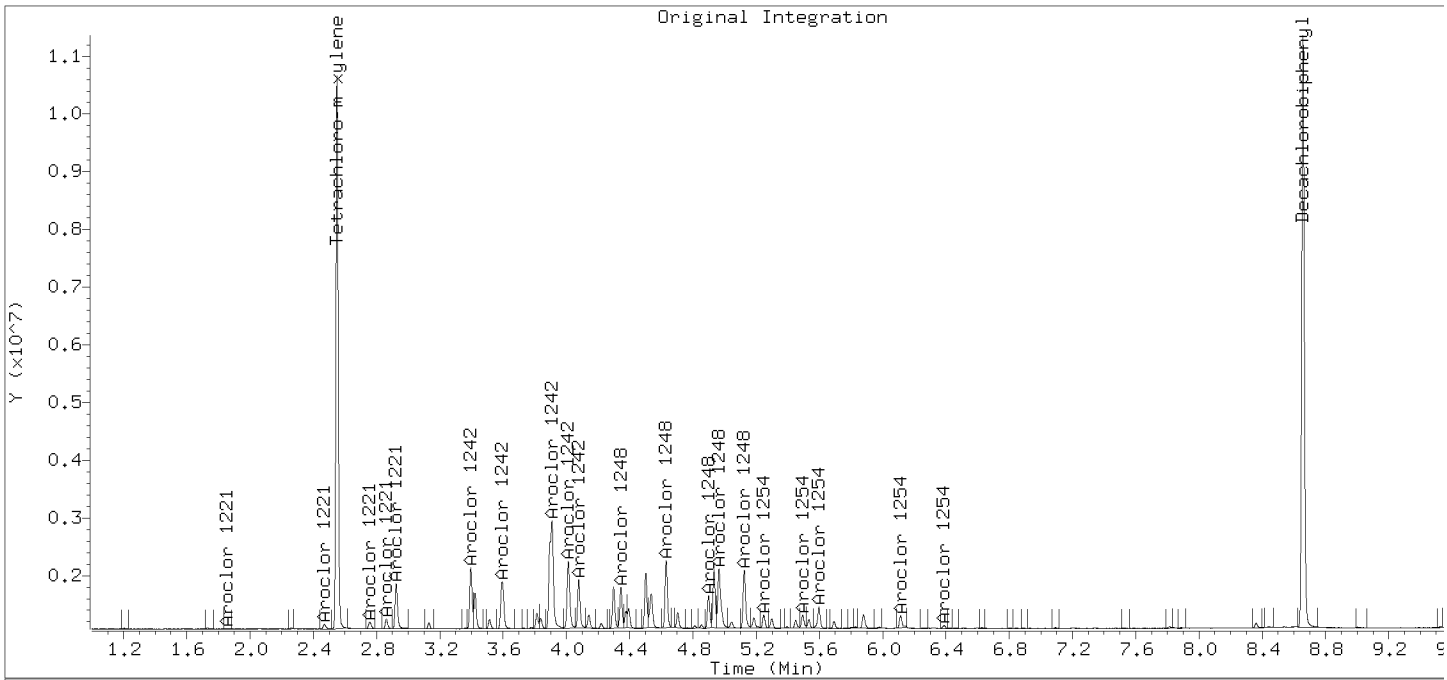
Operator: BLM

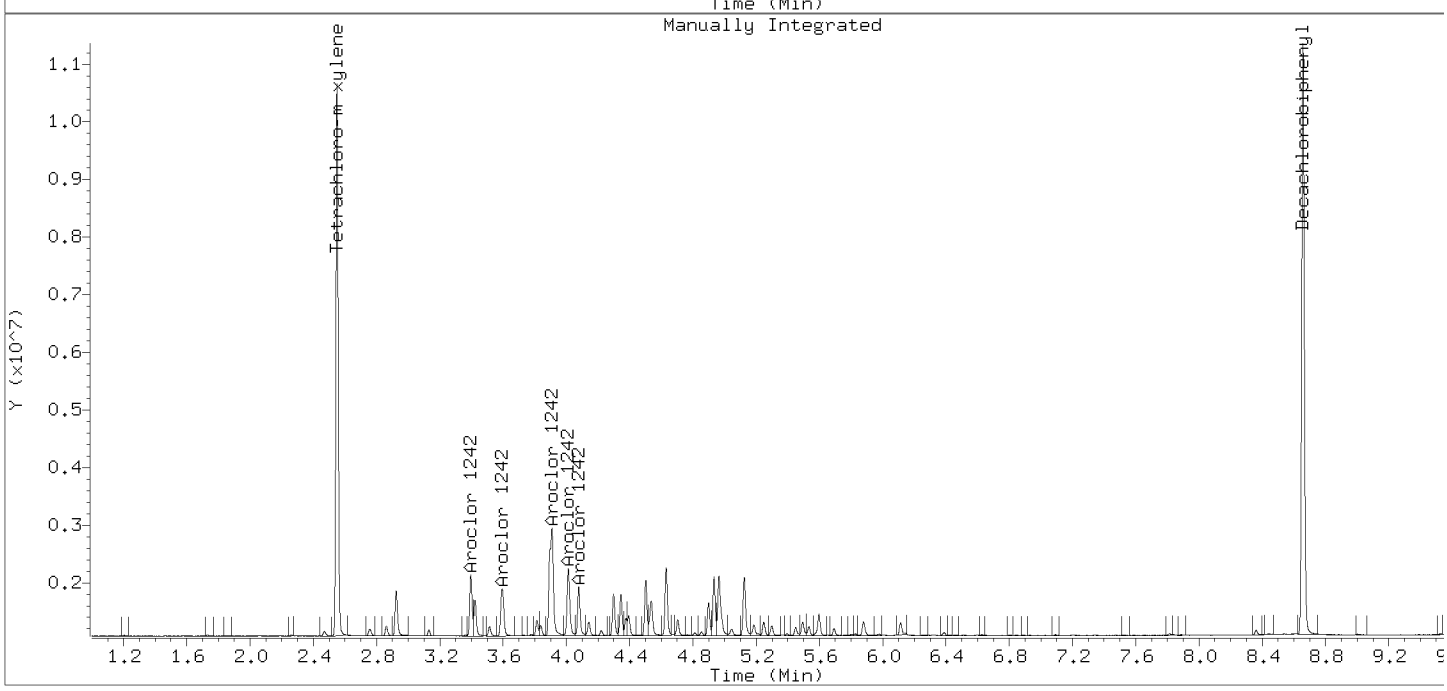
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318081.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 20:35 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1679887





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1112733	0	
Aroclor 1016	1112733	0	
Aroclor 1016	1112733	0	
Aroclor 1016	1112733	0	
Aroclor 1016	1112733	0	
Aroclor 1221	14504	0	
Aroclor 1221	14504	0	
Aroclor 1221	14504	0	
Aroclor 1221	14504	0	
Aroclor 1221	14504	0	
Aroclor 1232	869179	0	
Aroclor 1232	869179	0	
Aroclor 1232	869179	0	
Aroclor 1232	869179	0	

Aroclor 1232	869179	0	
Aroclor 1242	1112733	1126572	BA
Aroclor 1242	1112733	1126572	BA
Aroclor 1242	1112733	1126572	BA
Aroclor 1242	1112733	1126572	BA
Aroclor 1242	1112733	1126572	BA
Aroclor 1248	704131	0	
Aroclor 1248	704131	0	
Aroclor 1248	704131	0	
Aroclor 1248	704131	0	
Aroclor 1248	704131	0	
Aroclor 1254	242712	0	
Aroclor 1254	242712	0	
Aroclor 1254	242712	0	
Aroclor 1254	242712	0	
Aroclor 1254	242712	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9420353	9420353	
Decachlorobiphenyl	11767535	11767535	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158028
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 1679888
Date Analyzed: 05/04/2018 03:19
Lab File ID: 050318.B\050318131.D
Initial wt/vol: 5.9579 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)	<76.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	418	
11141-16-5	PCB-1232 (Aroclor 1232)	<76.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	835	
12672-29-6	PCB-1248 (Aroclor 1248)	1480	
11097-69-1	PCB-1254 (Aroclor 1254)	608	
11096-82-5	PCB-1260 (Aroclor 1260)	132	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318131.D
Lab Smp Id: 1679888 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679888 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: MS
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	5.958	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.461	11364	10019	0.882	0.02			
1.729	17072	14776	0.866	0.03			
1.819	16340	14965	0.916	0.03			
1.852	19121	16427	0.859	0.04		1 Aroclor 1221	BA
1.880	11162	9609	0.861	0.02			
2.229	11416	12776	1.119	0.02			
2.354	14608	14345	0.982	0.03			
2.378	18858	18611	0.987	0.04			
2.475	198394	155420	0.783	0.43		1 Aroclor 1221	BA
2.550	2843116	2851525	1.003	6.16	$	2 Tetrachloro-m-xylene	BA
2.755	66359	48372	0.729	0.14		1 Aroclor 1221	BA
2.861	82584	72527	0.878	0.17		1 Aroclor 1221	BA
2.923	350548	308785	0.881	0.76		1 Aroclor 1221	BA
3.046	27487	15571	0.566	0.05			
3.094	17698	13581	0.767	0.03			
3.132	173488	162370	0.936	0.37			
3.396	473628	456370	0.964	1.02		3 Aroclor 1242	BA
3.422	396139	358777	0.906	0.85			
3.514	329907	302894	0.918	0.71			
3.598	642989	508888	0.791	1.39		3 Aroclor 1242	BA
3.726	50853	40383	0.794	0.11			
3.777	12579	13106	1.042	0.02			
3.813	348461	342107	0.982	0.75			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.838	187278	164887	0.880	0.40	
3.909	2244207	1150766	0.513	4.86	3 Aroclor 1242
4.014	698740	474705	0.679	1.51	3 Aroclor 1242
4.078	530838	485971	0.915	1.15	3 Aroclor 1242
4.143	196903	177555	0.902	0.42	
4.221	44394	38815	0.874	0.09	
4.298	1738705	1590828	0.915	3.77	
4.345	1753088	1657607	0.946	3.80	6 Aroclor 1248
4.376	1912479	1482905	0.775	4.14	
4.430	52300	29961	0.573	0.11	
4.502	712421	674014	0.946	1.54	
4.537	737413	607818	0.824	1.59	
4.631	1533199	1404255	0.916	3.32	6 Aroclor 1248
4.673	141272	125185	0.886	0.30	
4.704	171393	143475	0.837	0.37	
4.766	128738	114328	0.888	0.27	
4.819	170680	121001	0.709	0.37	
4.854	265543	244277	0.920	0.57	
4.899	881422	838067	0.951	1.91	6 Aroclor 1248
4.933	1031804	980928	0.951	2.23	
4.965	2190806	1295185	0.591	4.75	6 Aroclor 1248
5.043	435951	374525	0.859	0.94	
5.124	1038871	936228	0.901	2.25	6 Aroclor 1248
5.186	752361	675208	0.897	1.63	
5.247	1202908	1041837	0.866	2.60	7 Aroclor 1254
5.298	962604	848643	0.882	2.08	
5.369	124261	114777	0.924	0.26	
5.395	185806	146099	0.786	0.40	
5.450	368906	329377	0.893	0.79	
5.494	832751	734977	0.883	1.80	7 Aroclor 1254
5.535	635202	543716	0.856	1.37	
5.569	100407	108049	1.076	0.21	
5.596	1545644	1345961	0.871	3.35	7 Aroclor 1254
5.664	67984	59493	0.875	0.14	
5.692	208427	187579	0.900	0.45	
5.763	385861	349874	0.907	0.83	
5.798	171073	133758	0.782	0.37	
5.829	278824	206992	0.742	0.60	
5.877	1678696	1292168	0.770	3.64	
5.974	170498	127480	0.748	0.36	
6.016	152900	105882	0.692	0.33	
6.080	278417	253020	0.909	0.60	
6.112	758303	663276	0.875	1.64	7 Aroclor 1254
6.142	928525	810079	0.872	2.01	
6.256	228472	145239	0.636	0.49	
6.315	70839	85918	1.213	0.15	
6.330	134407	102793	0.765	0.29	
6.388	1399807	1179379	0.843	3.03	7 Aroclor 1254
6.420	124419	114660	0.922	0.26	
6.462	66312	55174	0.832	0.14	
6.519	172991	131760	0.762	0.37	
6.597	366009	323646	0.884	0.79	
6.625	264722	241651	0.913	0.57	
6.647	85960	85428	0.994	0.18	
6.692	44431	38192	0.860	0.09	
6.750	31339	26362	0.841	0.06	
6.806	111433	94037	0.844	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.847	127797	113018	0.884	0.27	
6.890	172287	156316	0.907	0.37	
6.928	92529	75766	0.819	0.20	
7.000	17034	18408	1.081	0.03	
7.030	89558	73168	0.817	0.19	
7.091	322078	293874	0.912	0.69	8 Aroclor 1260
7.122	36691	36418	0.993	0.07	
7.200	87709	42414	0.484	0.19	
7.265	19015	13345	0.702	0.04	
7.338	187876	166503	0.886	0.40	8 Aroclor 1260
7.369	91077	65237	0.716	0.19	
7.426	49833	29345	0.589	0.10	
7.476	151718	131053	0.864	0.32	
7.529	213784	154336	0.722	0.46	8 Aroclor 1260
7.593	43399	24252	0.559	0.09	
7.745	23036	18859	0.819	0.04	
7.779	49173	41844	0.851	0.10	
7.814	44545	44908	1.008	0.09	
7.840	115017	70098	0.609	0.24	
7.987	109362	99906	0.914	0.23	8 Aroclor 1260
8.046	17326	13045	0.753	0.03	
8.139	27092	21580	0.797	0.05	
8.361	132271	114670	0.867	0.28	
8.441	157022	101196	0.644	0.34	
8.659	3244334	2804960	0.865	7.58	$ 12 Decachlorobiphenyl
9.003	283486	152528	0.538	0.61	
9.257	26219	24007	0.916	0.05	
9.526	359701	175667	0.488	0.78	
	46115084	38654695		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318131.D
Lab Smp Id: 1679888 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679888 x4,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: MS
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	5.958	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.851	1.853	-0.002	19121	0.01931	65	0.00- 20.00	100.00(M)	BA
2.475	2.471	0.004	198393	0.37633	1300	0.00- 20.00	1037.57	BA
2.754	2.758	-0.004	66359	0.04784	160	0.00- 20.00	347.05	BA
2.861	2.860	0.001	82583	0.07484	250	0.00- 20.00	431.90	BA
2.923	2.923	0.000	350547	0.10486	350	0.00- 20.00	1833.31	BA
Average of Peak Concentrations =					420			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2843116	0.02361	79		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	473627	0.19568	660	0.00- 20.00	100.00(RM)	BA
3.598	3.592	0.006	642988	0.26125	880	0.00- 20.00	135.76	BA
3.908	3.909	-0.001	2244206	0.30931	1000	0.00- 20.00	473.83	BA
4.014	4.011	0.003	698739	0.22423	750	0.00- 20.00	147.53	BA
4.078	4.078	0.000	530838	0.25359	850	0.00- 20.00	112.08	BA
Average of Peak Concentrations =					840			

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	1753087	0.73494	2500	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	1533199	0.36097	1200	0.00- 20.00	87.46	BA
4.898	4.898	0.000	881422	0.43270	1400	0.00- 20.00	50.28	BA
4.964	4.963	0.001	2190805	0.39997	1300	0.00- 20.00	124.97	BA
5.123	5.123	0.000	1038870	0.27460	920	0.00- 20.00	59.26	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	1202907	0.21330	720	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	832751	0.17856	600	0.00- 20.00	69.23	BA
5.596	5.596	0.000	1545643	0.18052	600	0.00- 20.00	128.49	BA
6.111	6.113	-0.002	758303	0.14273	480	0.00- 20.00	63.04	BA
6.387	6.387	0.000	1399806	0.19120	640	0.00- 20.00	116.37	BA
Average of Peak Concentrations =					610			
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
7.091	7.090	0.001	322078	0.02737	92	0.00- 20.00	25.59	CO
7.338	7.338	0.000	187876	0.03322	110	0.00- 20.00	13.42	CO
7.529	7.529	0.000	213784	0.06253	210	0.00- 20.00	15.27	CO
7.987	7.987	0.000	109362	0.03453	120	0.00- 20.00	7.81	CO
Average of Peak Concentrations =					130			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.657	0.002	3244334	0.02436	82			

QC Flag Legend

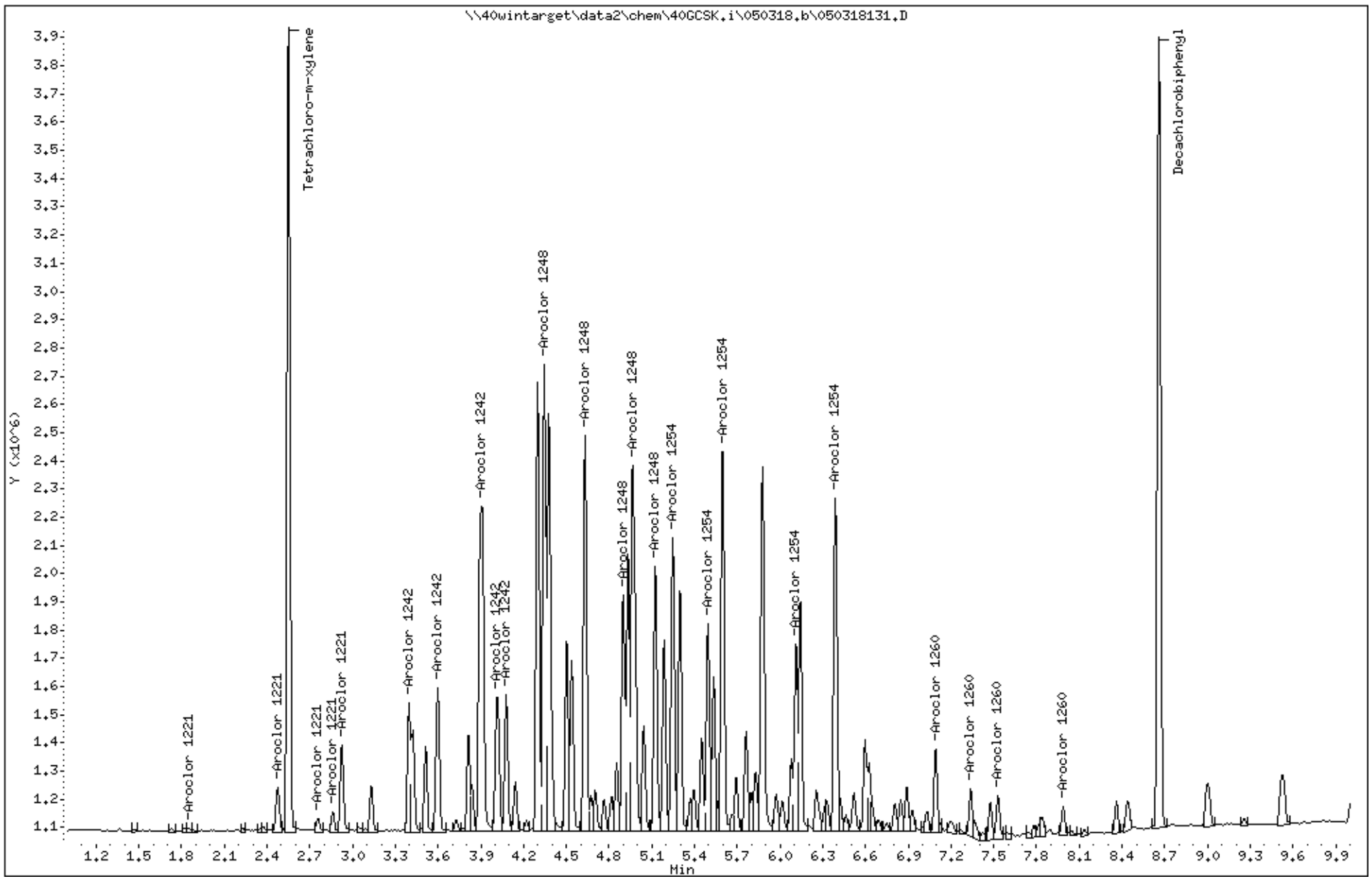
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

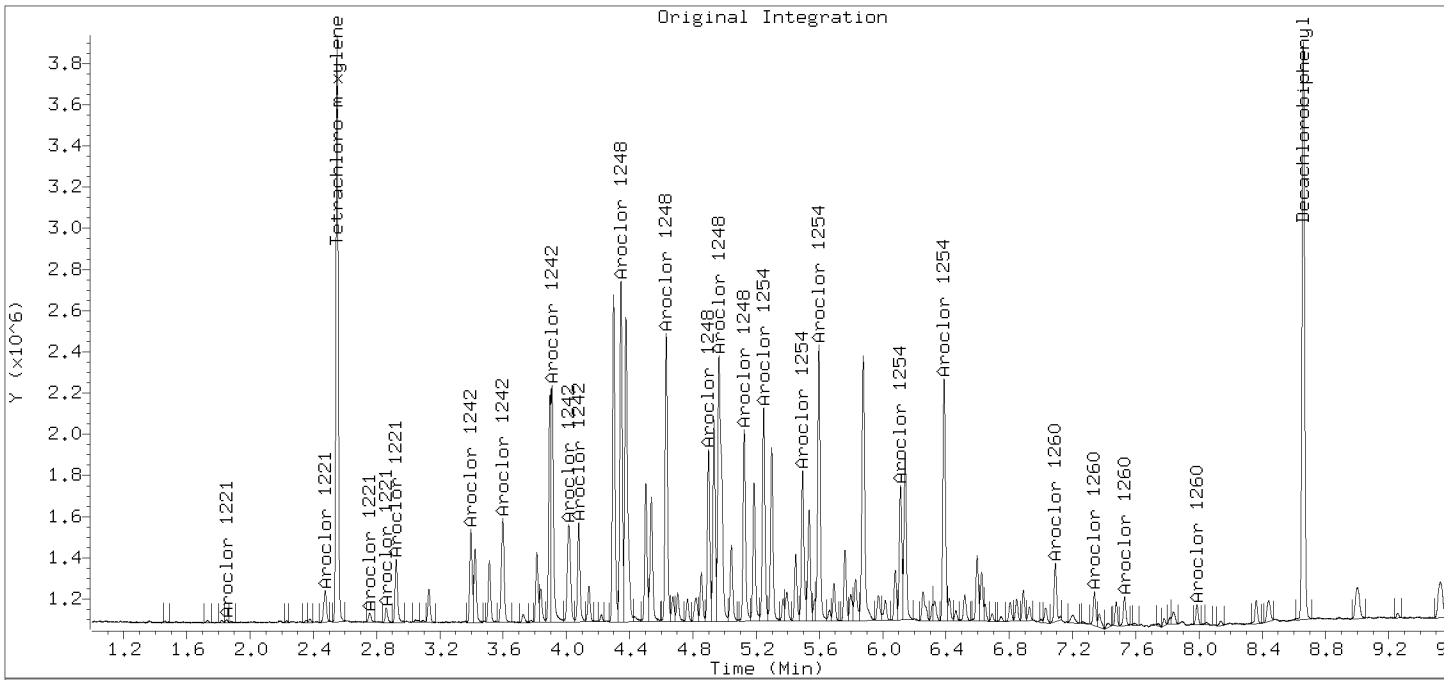
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

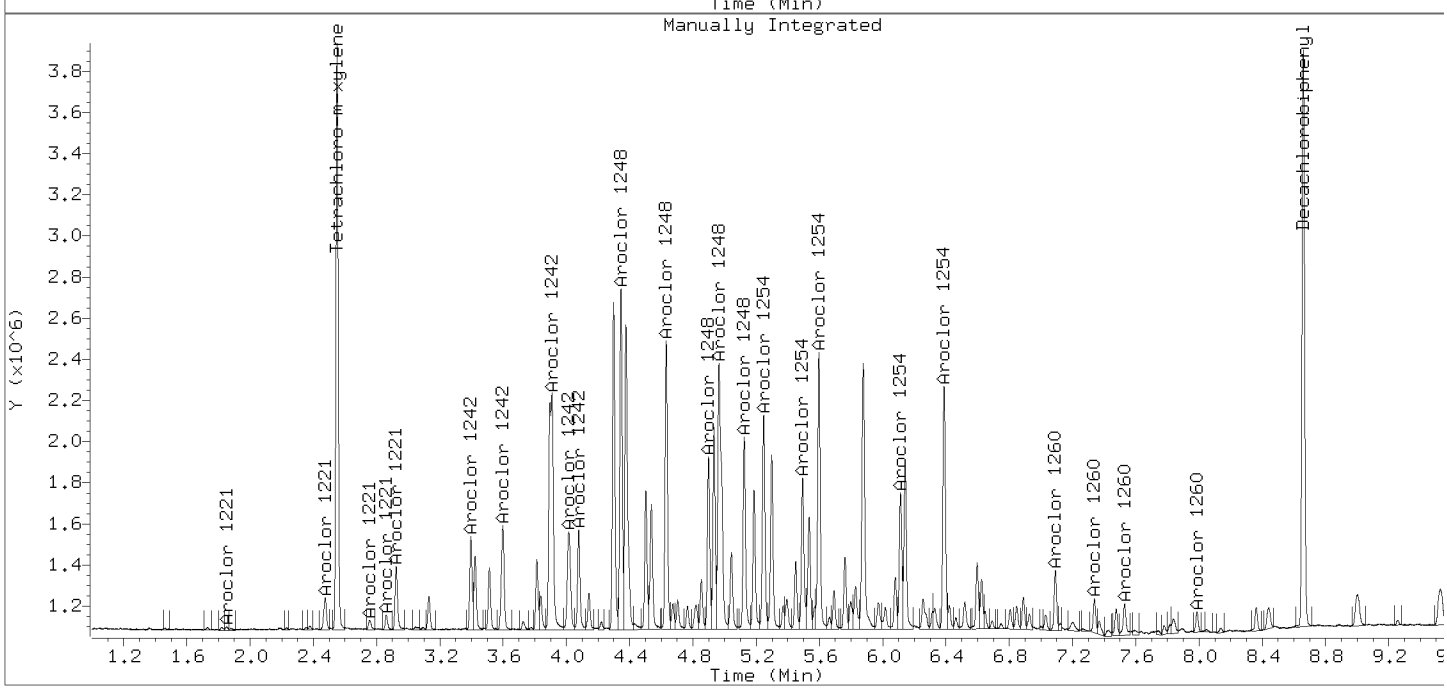
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318131.D
Date : 04-MAY-2018 03:19
Client ID: SW4-170830-01-PKSD-
Sample Info: 1679888 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318131.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 03:19 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1679888





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	467774	0	
Aroclor 1016	467774	0	
Aroclor 1016	467774	0	
Aroclor 1016	467774	0	
Aroclor 1016	467774	0	
Aroclor 1221	18311	19121	BA
Aroclor 1221	18311	19121	BA
Aroclor 1221	18311	19121	BA
Aroclor 1221	18311	19121	BA
Aroclor 1221	18311	19121	BA
Aroclor 1232	342860	0	
Aroclor 1232	342860	0	
Aroclor 1232	342860	0	
Aroclor 1232	342860	0	

Aroclor 1232	342860	0	
Aroclor 1242	467774	473627	BA
Aroclor 1242	467774	473627	BA
Aroclor 1242	467774	473627	BA
Aroclor 1242	467774	473627	BA
Aroclor 1242	467774	473627	BA
Aroclor 1248	1743211	1753087	BA
Aroclor 1248	1743211	1753087	BA
Aroclor 1248	1743211	1753087	BA
Aroclor 1248	1743211	1753087	BA
Aroclor 1248	1743211	1753087	BA
Aroclor 1254	1185316	1202907	BA
Aroclor 1254	1185316	1202907	BA
Aroclor 1254	1185316	1202907	BA
Aroclor 1254	1185316	1202907	BA
Aroclor 1254	1185316	1202907	BA
Aroclor 1260	1385383	0	CO
Aroclor 1260	1385383	0	CO
Aroclor 1260	1385383	0	CO
Aroclor 1260	1385383	0	CO
Aroclor 1260	1385383	0	CO
Tetrachloro-m-xylene	2814439	2843116	BA
Decachlorobiphenyl	3244334	3244334	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158028

Date Extracted: 04/27/2018 10:44

Lab Sample ID: 1679889

Date Analyzed: 05/04/2018 03:36

Lab File ID: 050318.B\050318133.D

Initial wt/vol: 5.6433 g Final wt/vol: 5 mL Dilution: 3

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<60.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	246	J
11141-16-5	PCB-1232 (Aroclor 1232)	<60.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<60.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	1110	
11097-69-1	PCB-1254 (Aroclor 1254)	522	
11096-82-5	PCB-1260 (Aroclor 1260)	120	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318133.D
Lab Smp Id: 1679889 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:36
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679889 x3,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 33 QC Sample: FIELDDUP
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	5.643	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.463	10361	10051	0.970	0.02			
1.729	16995	17835	1.049	0.03			
1.821	14336	14544	1.015	0.03			
1.849	18653	16693	0.895	0.04		1 Aroclor 1221	BA
2.227	12720	12788	1.005	0.02			
2.355	14595	15518	1.063	0.03			
2.380	19597	18720	0.955	0.04			
2.417	11987	7999	0.667	0.02			
2.475	197906	156349	0.790	0.43		1 Aroclor 1221	BA
2.549	3575565	3570194	0.998	7.79	$	2 Tetrachloro-m-xylene	BA
2.753	20468	14724	0.719	0.04		1 Aroclor 1221	BA
2.861	27737	25365	0.914	0.06		1 Aroclor 1221	BA
2.924	95501	84726	0.887	0.20		1 Aroclor 1221	BA
3.093	15288	15083	0.987	0.03			
3.131	156285	154405	0.988	0.34			
3.396	160711	155369	0.967	0.35			
3.423	230766	213509	0.925	0.50			
3.513	314019	301539	0.960	0.68			
3.599	359659	335339	0.932	0.78			
3.726	48851	41550	0.851	0.10			
3.812	315863	304609	0.964	0.68			
3.837	150652	138278	0.918	0.32			
3.895	1340833	797854	0.595	2.92			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.021	328122	260919	0.795	0.71	
4.077	304327	266451	0.876	0.66	
4.142	142481	130108	0.913	0.31	
4.221	19209	14881	0.775	0.04	
4.298	1781717	1629359	0.914	3.88	
4.345	1802487	1643489	0.912	3.93	6 Aroclor 1248
4.376	1997590	1622551	0.812	4.35	
4.432	46294	31380	0.678	0.10	
4.502	487027	469264	0.964	1.06	
4.537	594100	513534	0.864	1.29	
4.631	1380576	1261122	0.913	3.01	6 Aroclor 1248
4.673	161416	142304	0.882	0.35	
4.703	96858	77082	0.796	0.21	
4.764	147440	126635	0.859	0.32	
4.819	176567	128201	0.726	0.38	
4.853	306238	275514	0.900	0.66	
4.899	841330	799439	0.950	1.83	6 Aroclor 1248
4.933	853194	813215	0.953	1.86	
4.964	2105615	1197334	0.569	4.59	6 Aroclor 1248
5.043	466863	400285	0.857	1.01	
5.124	827456	738624	0.893	1.80	6 Aroclor 1248
5.187	806105	721068	0.895	1.75	
5.247	1318335	1128800	0.856	2.87	7 Aroclor 1254
5.298	1051154	917767	0.873	2.29	
5.370	143661	131198	0.913	0.31	
5.394	208363	163015	0.782	0.45	
5.449	381710	338662	0.887	0.83	
5.494	871900	784317	0.900	1.90	7 Aroclor 1254
5.534	697147	605824	0.869	1.52	
5.568	106304	114000	1.072	0.23	
5.596	1656708	1464172	0.884	3.61	7 Aroclor 1254
5.662	85165	67218	0.789	0.18	
5.691	202213	177199	0.876	0.44	
5.762	442224	411785	0.931	0.96	
5.798	192408	152179	0.791	0.41	
5.828	314926	235694	0.748	0.68	
5.877	1855940	1448795	0.781	4.04	
5.973	191963	142554	0.743	0.41	
6.017	168313	121330	0.721	0.36	
6.080	317195	288544	0.910	0.69	
6.113	798213	704851	0.883	1.74	7 Aroclor 1254
6.142	1051365	906671	0.862	2.29	
6.256	265173	166916	0.629	0.57	
6.317	75765	95445	1.260	0.16	
6.329	149237	112056	0.751	0.32	
6.388	1592215	1307981	0.821	3.47	7 Aroclor 1254
6.420	143169	132802	0.928	0.31	
6.462	77042	60097	0.780	0.16	
6.519	181661	147035	0.809	0.39	
6.598	413618	374243	0.905	0.90	
6.625	377436	274915	0.728	0.82	
6.693	44719	41885	0.937	0.09	
6.747	40096	30651	0.764	0.08	
6.808	120620	105382	0.874	0.26	
6.847	143754	126935	0.883	0.31	
6.889	196579	176701	0.899	0.42	
6.927	123310	87482	0.709	0.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.001	23308	18788	0.806	0.05	
7.030	102786	87404	0.850	0.22	
7.091	373050	328472	0.881	0.81	8 Aroclor 1260
7.123	34560	39597	1.146	0.07	
7.204	83166	37122	0.446	0.18	
7.339	216814	194477	0.897	0.47	8 Aroclor 1260
7.369	105143	73570	0.700	0.22	
7.427	66055	35623	0.539	0.14	
7.477	156582	139573	0.891	0.34	
7.529	240536	170779	0.710	0.52	8 Aroclor 1260
7.636	24994	18217	0.729	0.05	
7.664	12272	13861	1.129	0.02	
7.748	21602	22708	1.051	0.04	
7.779	54967	51386	0.935	0.11	
7.814	52821	47886	0.907	0.11	
7.841	97640	59874	0.613	0.21	
7.893	49052	26950	0.549	0.10	
7.988	127230	112973	0.888	0.27	8 Aroclor 1260
8.049	26171	18350	0.701	0.05	
8.138	28964	26957	0.931	0.06	
8.192	20128	15077	0.749	0.04	
8.340	11219	15367	1.370	0.02	
8.362	151297	134270	0.887	0.33	
8.441	150562	90880	0.604	0.32	
8.616	21897	14574	0.666	0.04	
8.659	4121418	3527345	0.856	9.49	$ 12 Decachlorobiphenyl
9.003	262071	141128	0.539	0.57	
9.142	17622	13979	0.793	0.03	
9.257	36044	29244	0.811	0.07	
9.526	353177	165013	0.467	0.77	
	45845105	38902345		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318133.D
Lab Smp Id: 1679889 Client Smp ID: SW4-170830-01-PKSD-
Inj Date : 04-MAY-2018 03:36
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1679889 x3,
Misc Info : 17744,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 08-May-2018 10:13 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 33 QC Sample: FIELDDUP
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	5.643	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	18653	0.01883	50	0.00- 20.00	100.00(M)	BA
2.475	2.471	0.004	197906	0.37540	1000	0.00- 20.00	1060.99	BA
2.752	2.758	-0.006	20467	0.01476	39	0.00- 20.00	109.72	BA
2.861	2.860	0.001	27736	0.02513	67	0.00- 20.00	148.69	BA
2.924	2.923	0.001	95500	0.02857	76	0.00- 20.00	511.98	BA
Average of Peak Concentrations =					240			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	3575564	0.02969	79		(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         1802487 0.75565     2000   0.00-  20.00   100.00(M)      BA
4.631    4.630    0.001         1380575 0.32504      860   0.00-  20.00    76.59         BA
4.898    4.898    0.000          841329 0.41302     1100   0.00-  20.00    46.68         BA
4.964    4.963    0.001         2105615 0.38442     1000   0.00-  20.00   116.82         BA
5.123    5.123    0.000          827455 0.21871      580   0.00-  20.00    45.91         BA
               Average of Peak Concentrations =     1100
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.246    5.248   -0.002         1318335 0.23376      620   0.00-  20.00   100.00(M)      BA
5.494    5.492    0.002          871899 0.18695      500   0.00-  20.00    66.14         BA
5.596    5.596    0.000         1656708 0.19350      510   0.00-  20.00   125.67         BA
6.112    6.113   -0.001          798213 0.15024      400   0.00-  20.00    60.55         BA
6.388    6.387    0.001         1592215 0.21748      580   0.00-  20.00   120.77         BA
               Average of Peak Concentrations =      520
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.387    6.387    0.000               0    0.00     0.00   0.00-  20.00     0.00(M)      CO
7.091    7.090    0.001          373050 0.03170       84   0.00-  20.00    25.56         CO
7.339    7.338    0.001          216814 0.03833      100   0.00-  20.00    13.62         CO
7.529    7.529    0.000          240535 0.07036      190   0.00-  20.00    15.11         CO
7.987    7.987    0.000          127229 0.04017      110   0.00-  20.00     7.99         CO
               Average of Peak Concentrations =      120
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.659    8.657    0.002         4121418 0.03094       82
-------------------------------------------------------------------------------
```

QC Flag Legend

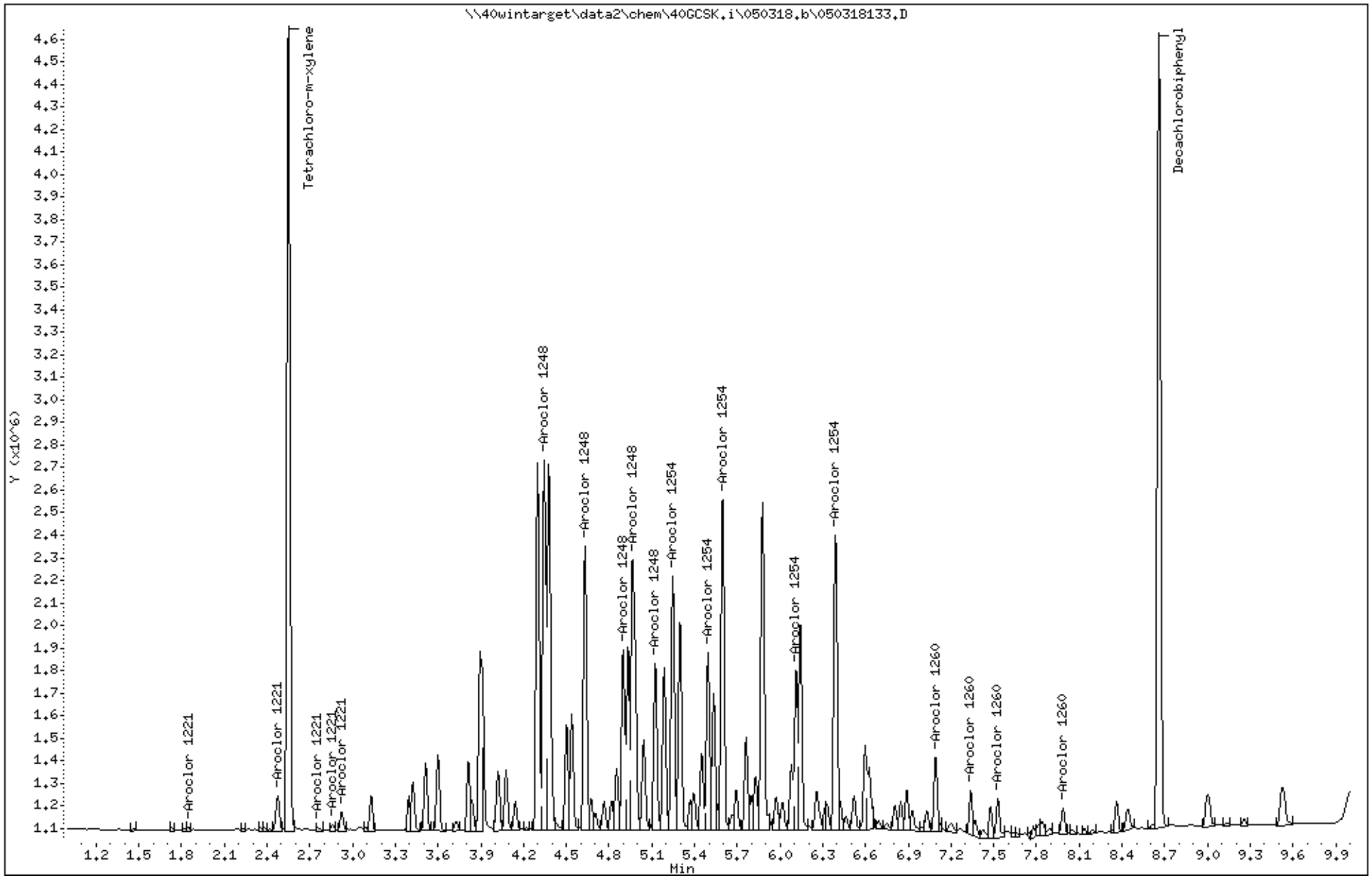
M - Compound response manually integrated.

Review Codes Legend

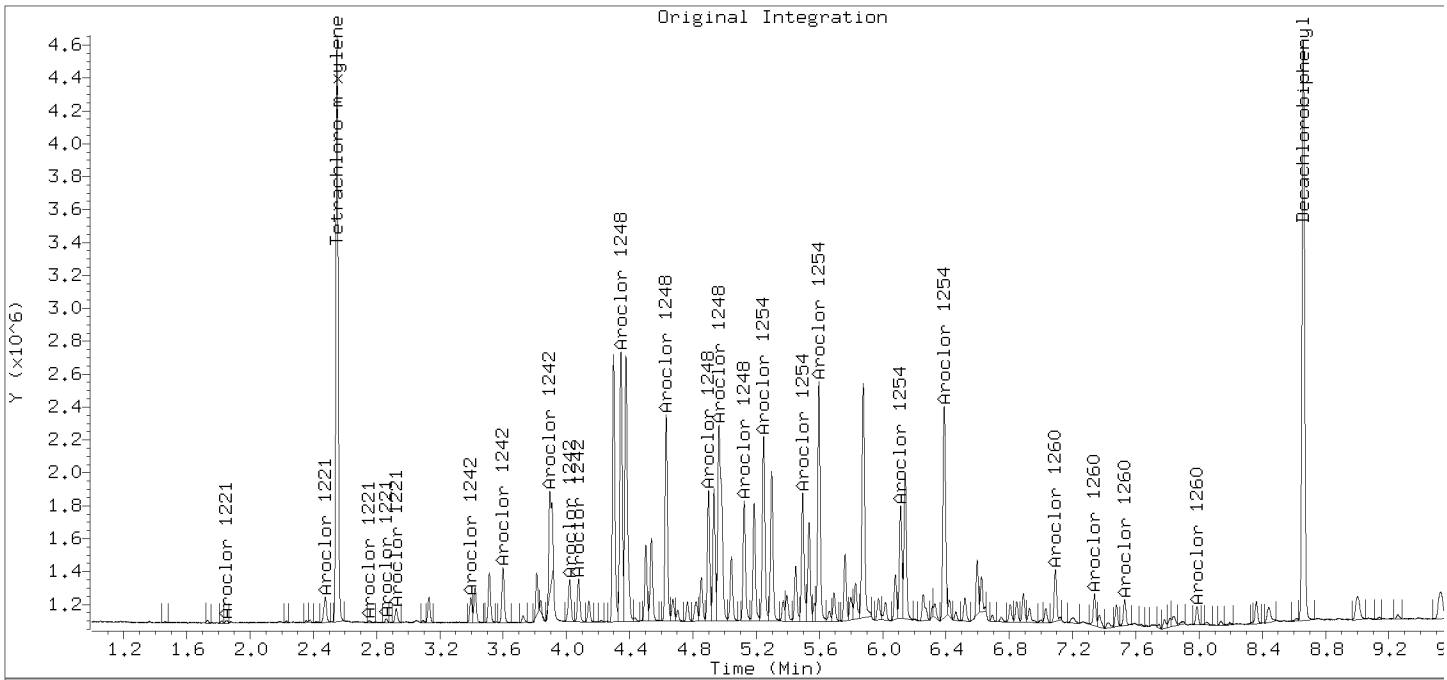
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

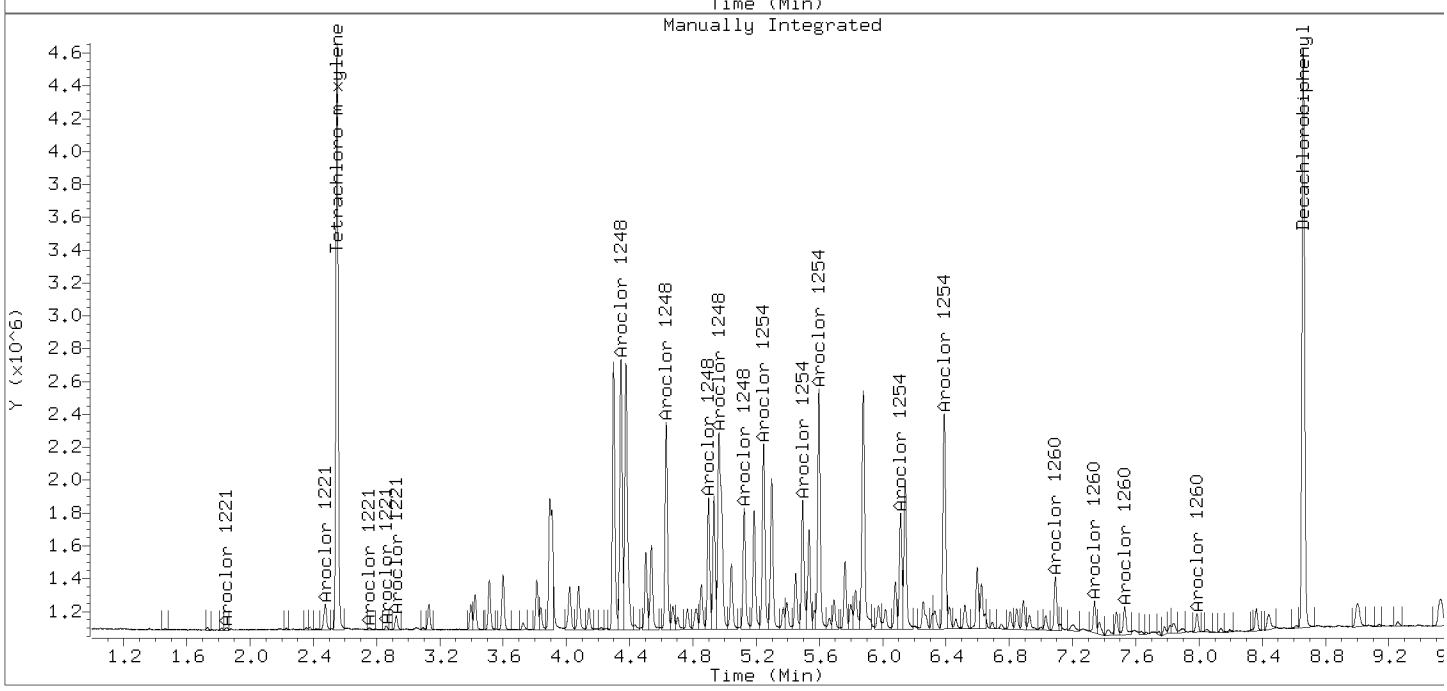
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318133.D
Date : 04-MAY-2018 03:36
Client ID: SW4-170830-01-PKSD-
Sample Info: 1679889 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318133.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 04-MAY-2018 03:36 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1679889





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	160710	0	
Aroclor 1016	160710	0	
Aroclor 1016	160710	0	
Aroclor 1016	160710	0	
Aroclor 1016	160710	0	
Aroclor 1221	17664	18653	BA
Aroclor 1221	17664	18653	BA
Aroclor 1221	17664	18653	BA
Aroclor 1221	17664	18653	BA
Aroclor 1221	17664	18653	BA
Aroclor 1232	91928	0	
Aroclor 1232	91928	0	
Aroclor 1232	91928	0	
Aroclor 1232	91928	0	

Aroclor 1232	91928	0	
Aroclor 1242	160710	0	
Aroclor 1242	160710	0	
Aroclor 1242	160710	0	
Aroclor 1242	160710	0	
Aroclor 1242	160710	0	
Aroclor 1248	1785660	1802487	BA
Aroclor 1248	1785660	1802487	BA
Aroclor 1248	1785660	1802487	BA
Aroclor 1248	1785660	1802487	BA
Aroclor 1248	1785660	1802487	BA
Aroclor 1254	1294811	1318335	BA
Aroclor 1254	1294811	1318335	BA
Aroclor 1254	1294811	1318335	BA
Aroclor 1254	1294811	1318335	BA
Aroclor 1254	1294811	1318335	BA
Aroclor 1260	1519507	0	CO
Aroclor 1260	1519507	0	CO
Aroclor 1260	1519507	0	CO
Aroclor 1260	1519507	0	CO
Aroclor 1260	1519507	0	CO
Tetrachloro-m-xylene	3541355	3575564	BA
Decachlorobiphenyl	4121418	4121418	

==========

Prep Log Report

Batch Information: OEXT 287158 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	04/27/2018 10:44:50:514
Spiked By	ETB	Spiked By Date/Time	04/27/2018 10:44:50:514	Witnessed By	AMC	Witnessed By Date/Time	04/27/2018 10:44:50:514
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194917	Hexane	192551	Sodium Sulfate	194642	Florisil	186910
3620B Date/Initials	04/30/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	04/30/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/08/2018 10:13	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	**1679886**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1679887**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40158013001**	10.0111	5	3		193230 (.25)	
8082A TNYP	PS	**40158013002**	9.9753	5	3		193230 (.25)	
8082A TNYP	PS	**40158013003**	9.9779	5	3		193230 (.25)	
8082A TNYP	PS	**40158013004**	9.9733	5	3		193230 (.25)	
8082A TNYP	PS	**40158013005**	8.9822	5	3		193230 (.25)	
8082A TNYP	PS	**40158028001**	9.9989	5	3		193230 (.25)	
8082A TNYP	PS	**40158028002**	9.9846	5	3		193230 (.25)	
8082A TNYP	PS	**40158028003**	7.8617	5	3		193230 (.25)	
8082A TNYP	PS	**40158028004**	9.9746	5	3		193230 (.25)	
8082A TNYP	PS	**40158028005**	9.9937	5	3		193230 (.25)	
8082A TNYP	PS	**40158028006**	10.0107	5	3		193230 (.25)	
8082A TNYP	PS	**40158028007**	9.9739	5	3		193230 (.25)	
8082A TNYP	PS	**40158028008**	10.0076	5	3		193230 (.25)	
8082A TNYP	PS	**40158028009**	10.0361	5	3		193230 (.25)	

Prep Log Report

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	**40158028010**	9.0855	5	3		193230 (.25)	
8082A TNYP	PS	**40158028011**	10.002	5	3		193230 (.25)	
8082A TNYP	PS	**40158028012**	9.9935	5	3		193230 (.25)	
8082A TNYP	PS	**40158028013**	9.9938	5	3		193230 (.25)	
8082A TNYP	PS	**40158028014**	9.9835	5	3		193230 (.25)	
8082A TNYP	RQS	**40158028015**	6.0605	5	3		193230 (.25)	
8082A TNYP	MS	**1679888**	5.9579	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1679889**	5.6433	5	3		193230 (.25)	

Standard Notes:

192096: Ar1242 Spike @20ug/mL 40GCS9. **193230: Pest/PCB Surrogate Spike 40GCSC.**

```
   Sequence Name: C:\msdchem\1\sequence\043018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\043018\
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  1680704MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1680705LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1680706MS
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1680707MSD
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40168079-001
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40168087-001P
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40168099-001
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40168099-002
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40168099-003
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40168099-004
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40168099-005
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40168099-006
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40168173-001
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  HEXANE
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1679886MB
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  1679887LCS
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158013-001 — x2
     Datafile           --------

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GE BIOTA

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	Method		SCREEN2014		
20)	Sample	20	40158013-002	×5	
	Datafile		--------		
	Method		SCREEN2014		
21)	RearSamp	21	40158013-003	×3	×5
	Datafile		--------		
	Method		SCREEN2014		
22)	Sample	22	40158013-004	×5	
	Datafile		--------		
	Method		SCREEN2014		
23)	RearSamp	23	40158013-005	—	
	Datafile		--------		
	Method		SCREEN2014		
24)	Sample	24	40158028-001	×5	×6
	Datafile		--------		
	Method		SCREEN2014		
25)	RearSamp	25	40158028-002	×5	
	Datafile		--------		
	Method		SCREEN2014		
26)	Sample	26	40158028-003	×4	
	Datafile		--------		
	Method		SCREEN2014		
27)	RearSamp	27	40158028-004	×10	
	Datafile		--------		
	Method		SCREEN2014		
28)	Sample	28	40158028-005	×10	
	Datafile		--------		
	Method		SCREEN2014		
29)	RearSamp	29	40158028-006	×5	×6
	Datafile		--------		
	Method		SCREEN2014		
30)	Sample	30	40158028-007	×5	
	Datafile		--------		
	Method		SCREEN2014		
31)	RearSamp	31	40158028-008	×5	
	Datafile		--------		
	Method		SCREEN2014		
32)	Sample	32	40158028-009	×5	
	Datafile		--------		
	Method		SCREEN2014		
33)	RearSamp	33	40158028-010	×4	×5
	Datafile		--------		
	Method		SCREEN2014		
34)	Sample	34	40158028-011	×4	/
	Datafile		--------		
	Method		SCREEN2014		
35)	RearSamp	35	40158028-012	×4	×5
	Datafile		--------		
	Method		SCREEN2014		
36)	Sample	36	40158028-013	×5	
	Datafile		--------		
	Method		SCREEN2014		
37)	RearSamp	37	40158028-014	×3	×4
	Datafile		--------		
	Method		SCREEN2014		
38)	Sample	38	40158028-015	×3	
	Datafile		--------		
	Method		SCREEN2014		
39)	RearSamp	39	1679888MS	×.3	×4
	Datafile		--------		
	Method		SCREEN2014		
40)	Sample	40	1679889DUP	×3	
	Datafile		--------		
	Method		SCREEN2014		

* This set was ran on instrument which failed CCV's, but proper dilutions were taken from the run and written to the right & initial estimate.

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Read and Understood By

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```
   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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```
      Datafile          050318019
      Method            GEBIOTA2017
21) Sample        20    HEXANE
      Datafile          050318020
      Method            GEBIOTA2017
22) RearSamp      21    1242-CAL1B,188132:1,17762,NSA
      Datafile          050318021
      Method            GEBIOTA2017
23) Sample        22    1242-CAL1B,188132:1,17761,NSA
      Datafile          050318022
      Method            GEBIOTA2017
24) RearSamp      23    1242-CAL2B,185543:1,17762,NSA
      Datafile          050318023
      Method            GEBIOTA2017
25) Sample        24    1242-CAL2B,185543:1,17761,NSA
      Datafile          050318024
      Method            GEBIOTA2017
26) RearSamp      25    1242-CAL3B,185544:1,17762,NSA
      Datafile          050318025
      Method            GEBIOTA2017
27) Sample        26    1242-CAL3B,185544:1,17761,NSA
      Datafile          050318026
      Method            GEBIOTA2017
28) RearSamp      27    1242-CAL4B,185545:1,17762,NSA
      Datafile          050318027
      Method            GEBIOTA2017
29) Sample        28    1242-CAL4B,185545:1,17761,NSA
      Datafile          050318028
      Method            GEBIOTA2017
30) RearSamp      29    1242-CAL5B,185546:1,17762,NSA
      Datafile          050318029
      Method            GEBIOTA2017
31) Sample        30    1242-CAL5B,185546:1,17761,NSA
      Datafile          050318030
      Method            GEBIOTA2017
32) RearSamp      31    HEXANE
      Datafile          050318031
      Method            GEBIOTA2017
33) Sample        32    HEXANE
      Datafile          050318032
      Method            GEBIOTA2017
34) RearSamp      33    1248-CAL1D,188134:1,17762,NSA
      Datafile          050318033
      Method            GEBIOTA2017
35) Sample        34    1248-CAL1D,188134:1,17761,NSA
      Datafile          050318034
      Method            GEBIOTA2017
36) RearSamp      35    1248-CAL2D,185548:1,17762,NSA
      Datafile          050318035
      Method            GEBIOTA2017
37) Sample        36    1248-CAL2D,185548:1,17761,NSA
      Datafile          050318036
      Method            GEBIOTA2017
38) RearSamp      37    1248-CAL3D,185549:1,17762,NSA
      Datafile          050318037
      Method            GEBIOTA2017
39) Sample        38    1248-CAL3D,185549:1,17761,NSA
      Datafile          050318038
      Method            GEBIOTA2017
40) RearSamp      39    1248-CAL4D,185550:1,17762,NSA
      Datafile          050318039
      Method            GEBIOTA2017
41) Sample        40    1248-CAL4D,185550:1,17761,NSA
      Datafile          050318040
      Method            GEBIOTA2017
42) RearSamp      41    1248-CAL5D,185551:1,17762,NSA
      Datafile          050318041
      Method            GEBIOTA2017
43) Sample        42    1248-CAL5D,185551:1,17761,NSA
      Datafile          050318042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\050318.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)		RearSamp	43	HEXANE		
	Datafile			050318043		
	Method				GEBIOTA2017	
45)		Sample	44	HEXANE		
	Datafile			050318044		
	Method				GEBIOTA2017	
46)		RearSamp	45	1254-CAL1C,188135:1,17762,NSA		
	Datafile			050318045		
	Method				GEBIOTA2017	
47)		Sample	46	1254-CAL1C,188135:1,17761,NSA		
	Datafile			050318046		
	Method				GEBIOTA2017	
48)		RearSamp	47	1254-CAL2C,185553:1,17762,NSA		
	Datafile			050318047		
	Method				GEBIOTA2017	
49)		Sample	48	1254-CAL2C,185553:1,17761,NSA		
	Datafile			050318048		
	Method				GEBIOTA2017	
50)		RearSamp	49	1254-CAL3C,185554:1,17762,NSA		
	Datafile			050318049		
	Method				GEBIOTA2017	
51)		Sample	50	1254-CAL3C,185554:1,17761,NSA		
	Datafile			050318050		
	Method				GEBIOTA2017	
52)		RearSamp	51	1254-CAL4C,185555:1,17762,NSA		
	Datafile			050318051		
	Method				GEBIOTA2017	
53)		Sample	52	1254-CAL4C,185555:1,17761,NSA		
	Datafile			050318052		
	Method				GEBIOTA2017	
54)		RearSamp	53	1254-CAL5C,185556:1,17762,NSA		
	Datafile			050318053		
	Method				GEBIOTA2017	
55)		Sample	54	1254-CAL5C,185556:1,17761,NSA		
	Datafile			050318054		
	Method				GEBIOTA2017	
56)		RearSamp	55	HEXANE		
	Datafile			050318055		
	Method				GEBIOTA2017	
57)		Sample	56	HEXANE		
	Datafile			050318056		
	Method				GEBIOTA2017	
58)		RearSamp	57	1660-CAL1A,188136:1,17762,AR1		
	Datafile			050318057		
	Method				GEBIOTA2017	
59)		Sample	58	1660-CAL1A,188136:1,17761,AR1		
	Datafile			050318058		
	Method				GEBIOTA2017	
60)		RearSamp	59	1660-CAL2A,185558:1,17762,AR1		
	Datafile			050318059		
	Method				GEBIOTA2017	
61)		Sample	60	1660-CAL2A,185558:1,17761,AR1		
	Datafile			050318060		
	Method				GEBIOTA2017	
62)		RearSamp	61	1660-CAL3A,185559:1,17762,AR1		
	Datafile			050318061		
	Method				GEBIOTA2017	
63)		Sample	62	1660-CAL3A,185559:1,17761,AR1		
	Datafile			050318062		
	Method				GEBIOTA2017	
64)		RearSamp	63	1660-CAL4A,185560:1,17762,AR1		
	Datafile			050318063		
	Method				GEBIOTA2017	
65)		Sample	64	1660-CAL4A,185560:1,17761,AR1		
	Datafile			050318064		
	Method				GEBIOTA2017	
66)		RearSamp	65	1660-CAL5A,185561:1,17762,AR1		
	Datafile			050318065		

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```
      Method                GEBIOTA2017
67) Sample          66  1660-CAL5A,185561:1,17761,AR1
      Datafile              050318066
      Method                GEBIOTA2017
68) RearSamp        67  HEXANE
      Datafile              050318067
      Method                GEBIOTA2017
69) Sample          68  HEXANE
      Datafile              050318068
      Method                GEBIOTA2017
70) RearSamp        69  1221-ICV,188142:1,17762,AR122 ok
      Datafile              050318069
      Method                GEBIOTA2017
71) Sample          70  1221-ICV,188142:1,17761,AR122 ok
      Datafile              050318070
      Method                GEBIOTA2017
72) RearSamp        71  1242-ICV,185562:1,17762,AR124 ok
      Datafile              050318071
      Method                GEBIOTA2017
73) Sample          72  1242-ICV,185562:1,17761,AR124 ok
      Datafile              050318072
      Method                GEBIOTA2017
74) RearSamp        73  1248-ICV,185563:1,17762,AR124 ok
      Datafile              050318073
      Method                GEBIOTA2017
75) Sample          74  1248-ICV,185563:1,17761,AR124 ok
      Datafile              050318074
      Method                GEBIOTA2017
76) RearSamp        75  1254-ICV,185564:1,17762,AR125 ok
      Datafile              050318075
      Method                GEBIOTA2017
77) Sample          76  1254-ICV,185564:1,17761,AR125 F
      Datafile              050318076
      Method                GEBIOTA2017
78) RearSamp        77  1660-ICV,185565:1,17762,AR166 ok
      Datafile              050318077
      Method                GEBIOTA2017
79) Sample          78  1660-ICV,185565:1,17761,AR166 F
      Datafile              050318078
      Method                GEBIOTA2017
80) RearSamp        79  1679886,,17744,BIOTA
      Datafile              050318079
      Method                GEBIOTA2017
81) Sample          80  1681428,,17750,BIOTA
      Datafile              050318080
      Method                GEBIOTA2017
82) RearSamp        81  1679887,,17744,BIOTA
      Datafile              050318081
      Method                GEBIOTA2017
83) Sample          82  1681429,,17750,BIOTA
      Datafile              050318082
      Method                GEBIOTA2017
84) RearSamp        83  40158013001 x2,,17744,BIOTA
      Datafile              050318083
      Method                GEBIOTA2017
85) Sample          84  40157940015 x20,,17750,BIOTA
      Datafile              050318084
      Method                GEBIOTA2017
86) RearSamp        85  40158013002 x5,,17744,BIOTA
      Datafile              050318085
      Method                GEBIOTA2017
87) Sample          86  1681430 x20,,17750,BIOTA
      Datafile              050318086
      Method                GEBIOTA2017
88) RearSamp        87  40158013003 x5,,17744,BIOTA
      Datafile              050318087
      Method                GEBIOTA2017
89) Sample          88  1681911 x20,,17750,BIOTA
      Datafile              050318088
      Method                GEBIOTA2017
90) RearSamp        89  40158013004 x5,,17744,BIOTA
      Datafile              050318089
```

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Read and Understood By

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```
      Method              GEBIOTA2017
91) Sample          90  40157948008 x2,,17750,BIOTA
      Datafile            050318090
      Method              GEBIOTA2017
92) RearSamp        91  40158013005,,17744,BIOTA
      Datafile            050318091
      Method              GEBIOTA2017
93) Sample          92  40157948009 x2,,17750,BIOTA
      Datafile            050318092
      Method              GEBIOTA2017
94) RearSamp        93  40158028001 x6,,17744,BIOTA
      Datafile            050318093
      Method              GEBIOTA2017
95) Sample          94  40157948011 x10,,17750,BIOTA
      Datafile            050318094
      Method              GEBIOTA2017
96) RearSamp        95  40158028002 x5,,17744,BIOTA
      Datafile            050318095
      Method              GEBIOTA2017
```

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Sequence Name: C:\msdchem\1\sequence\050318.s

	Line Type	Vial	DataFile	Method	Sample Name
97)	Sample	96	1681432 x10,,17750,BIOTA		
	Datafile		050318096		
	Method			GEBIOTA2017	
98)	RearSamp	97	40158028003 x4,,17744,BIOTA		
	Datafile		050318097		
	Method			GEBIOTA2017	
99)	Sample	98	40157948014 x5,,17750,BIOTA		
	Datafile		050318098		
	Method			GEBIOTA2017	
100)	RearSamp	99	1221-CCV,185538:1,17762,AR122 OK		
	Datafile		050318099		
	Method			GEBIOTA2017	
101)	Sample	100	1221-CCV,185538:1,17761,AR122		
	Datafile		050318100		
	Method			GEBIOTA2017	
102)	RearSamp	1	1221-CCV,185538:1,17762,AR122 OK		
	Datafile		050318101		
	Method			GEBIOTA2017	
103)	Sample	2	1221-CCV,185538:1,17761,AR122		
	Datafile		050318102		
	Method			GEBIOTA2017	
104)	RearSamp	3	40158028004 x10,,17744,BIOTA		
	Datafile		050318103		
	Method			GEBIOTA2017	
105)	Sample	4	40158017001 x3,,17750,BIOTA		
	Datafile		050318104		
	Method			GEBIOTA2017	
106)	RearSamp	5	40158028005 x10,,17744,BIOTA		
	Datafile		050318105		
	Method			GEBIOTA2017	
107)	Sample	6	40158017002 x3,,17750,BIOTA		
	Datafile		050318106		
	Method			GEBIOTA2017	
108)	RearSamp	7	40158028006 x6,,17744,BIOTA		
	Datafile		050318107		
	Method			GEBIOTA2017	
109)	Sample	8	40158017016,,17750,BIOTA		
	Datafile		050318108		
	Method			GEBIOTA2017	
110)	RearSamp	9	40158028007 x5,,17744,BIOTA		
	Datafile		050318109		
	Method			GEBIOTA2017	
111)	Sample	10	40158017017,,17750,BIOTA		
	Datafile		050318110		
	Method			GEBIOTA2017	
112)	RearSamp	11	40158028008 x5,,17744,BIOTA		
	Datafile		050318111		
	Method			GEBIOTA2017	
113)	Sample	12	40158017018,,17750,BIOTA		
	Datafile		050318112		
	Method			GEBIOTA2017	
114)	RearSamp	13	40158028009 x5,,17744,BIOTA		
	Datafile		050318113		
	Method			GEBIOTA2017	
115)	Sample	14	40158017019,,17750,BIOTA		
	Datafile		050318114		
	Method			GEBIOTA2017	
116)	RearSamp	15	40158028010 x5,,17744,BIOTA		
	Datafile		050318115		
	Method			GEBIOTA2017	
117)	Sample	16	40158017020,,17750,BIOTA		
	Datafile		050318116		
	Method			GEBIOTA2017	
118)	RearSamp	17	40158028011 x4,,17744,BIOTA		
	Datafile		050318117		
	Method			GEBIOTA2017	
119)	Sample	18	1681433,,17750,BIOTA		
	Datafile		050318118		

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```
        Method                  GEBIOTA2017
120) RearSamp        19  40158028012 x5,,17744,BIOTA
        Datafile                050318119
        Method                  GEBIOTA2017
121) Sample          20  40158029002 x4,,17750,BIOTA
        Datafile                050318120
        Method                  GEBIOTA2017
122) RearSamp        21  40158028013 x5,,17744,BIOTA
        Datafile                050318121
        Method                  GEBIOTA2017
123) Sample          22  40158029004 x5,,17750,BIOTA
        Datafile                050318122
        Method                  GEBIOTA2017
124) RearSamp        23  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318123
        Method                  GEBIOTA2017
125) Sample          24  1232-CCV,185539:1,17761,AR123
        Datafile                050318124
        Method                  GEBIOTA2017
126) RearSamp        25  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318125
        Method                  GEBIOTA2017
127) Sample          26  1232-CCV,185539:1,17761,AR123
        Datafile                050318126
        Method                  GEBIOTA2017
128) RearSamp        27  40158028014 x4,,17744,BIOTA
        Datafile                050318127
        Method                  GEBIOTA2017
129) Sample          28  1681434 x5,,17750,BIOTA
        Datafile                050318128
        Method                  GEBIOTA2017
130) RearSamp        29  40158028015 x3,,17744,BIOTA
        Datafile                050318129
        Method                  GEBIOTA2017
131) Sample          30  HEXANE
        Datafile                050318130
        Method                  GEBIOTA2017
132) RearSamp        31  1679888 x4,,17744,BIOTA
        Datafile                050318131
        Method                  GEBIOTA2017
133) Sample          32  HEXANE
        Datafile                050318132
        Method                  GEBIOTA2017
134) RearSamp        33  1679889 x3,,17744,BIOTA
        Datafile                050318133
        Method                  GEBIOTA2017
135) Sample          34  HEXANE
        Datafile                050318134
        Method                  GEBIOTA2017
136) RearSamp        35  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318135
        Method                  GEBIOTA2017
137) Sample          36  1242-CCV,185544:1,17761,AR124
        Datafile                050318136
        Method                  GEBIOTA2017
138) RearSamp        37  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318137
        Method                  GEBIOTA2017
139) Sample          38  1242-CCV,185544:1,17761,AR124
        Datafile                050318138
        Method                  GEBIOTA2017
```

* ICVs for 40GCSJ did not meet criteria, this column run will not be used.
** GCSV Batch 17744 was screened 40GCSI 04/30/18 BLM 5/7/18

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Read and Understood By

Signed 5/7/18 Date Signed 5/7/18 Date

Standard Log Report

Standards Log Information for Standard #194917

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #194917

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #194917

Composed of Standard Seq	Volume	Units
193871	2000	mL
192551	2000	mL

Standard Log Report

Standards Log Information for Standard #194642

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/24/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/24/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/24/18

Compound Name and Concentration for Standard #194642

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #193871

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 #193871

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 #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

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

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

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

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		

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

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2030 Savage Road
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Phone: 866.272.0932
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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

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 --

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
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ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
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.

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
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)

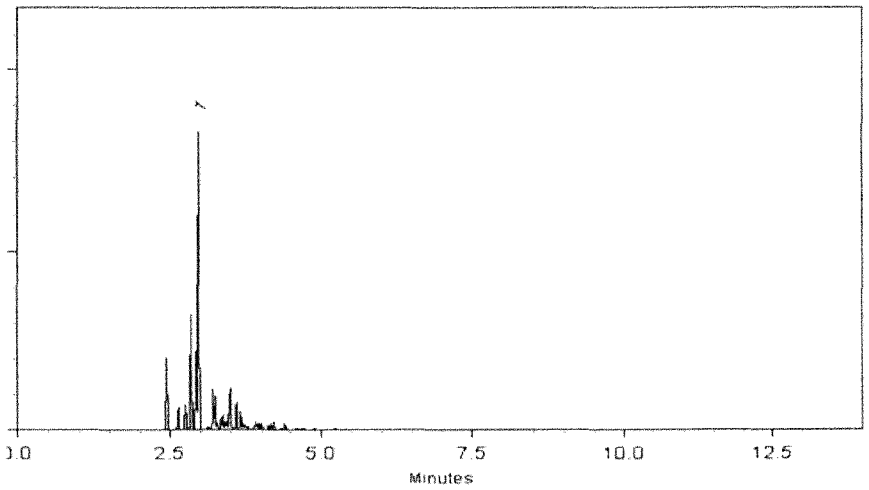
Carrier Gas:
helium-constant pressure 20 psi.

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

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
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. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

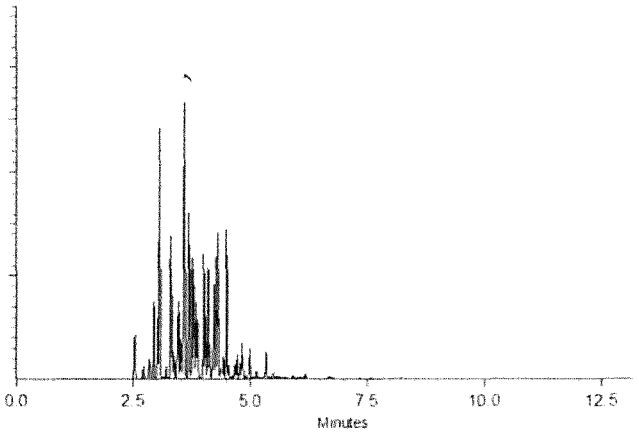
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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Certificate #FM 80397

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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. : 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)

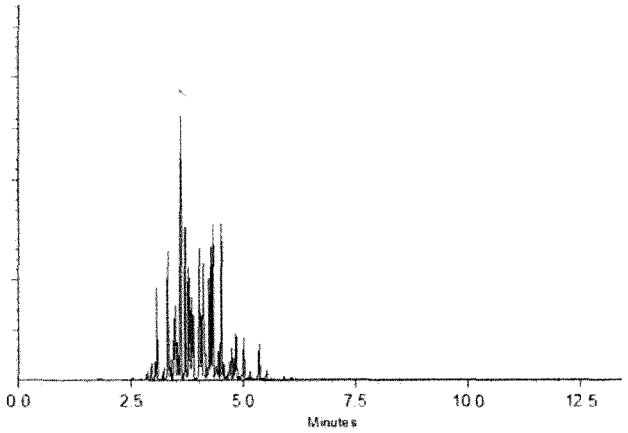
Carrier Gas:
helium-constant pressure 20 psi.

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)

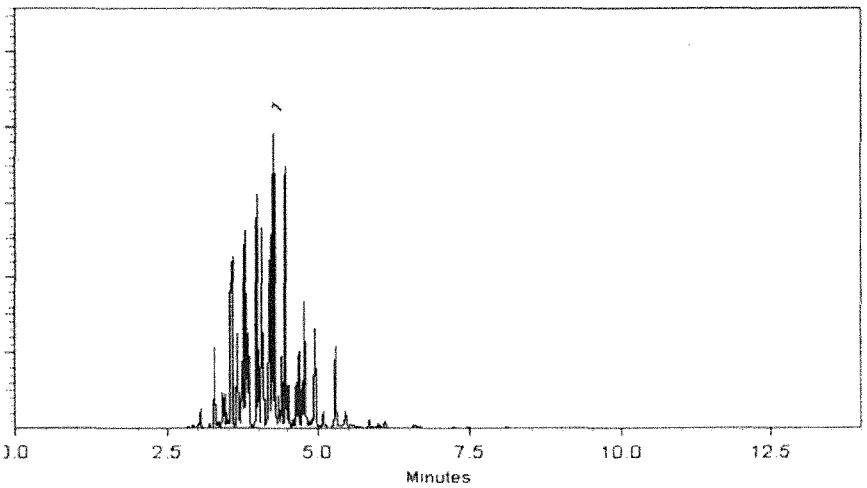
Carrier Gas:
helium-constant pressure 20 psi.

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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Certificate #FM 80397

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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. : 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)

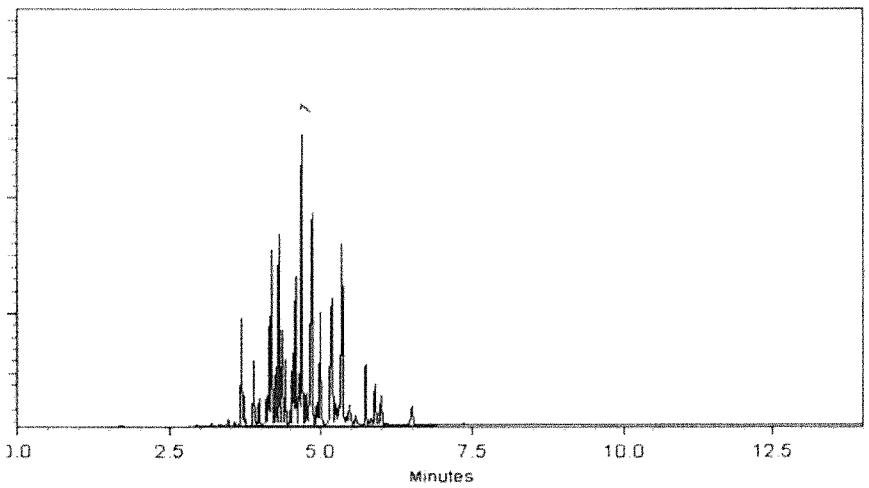
Carrier Gas:
helium-constant pressure 20 psi.

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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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. : 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)

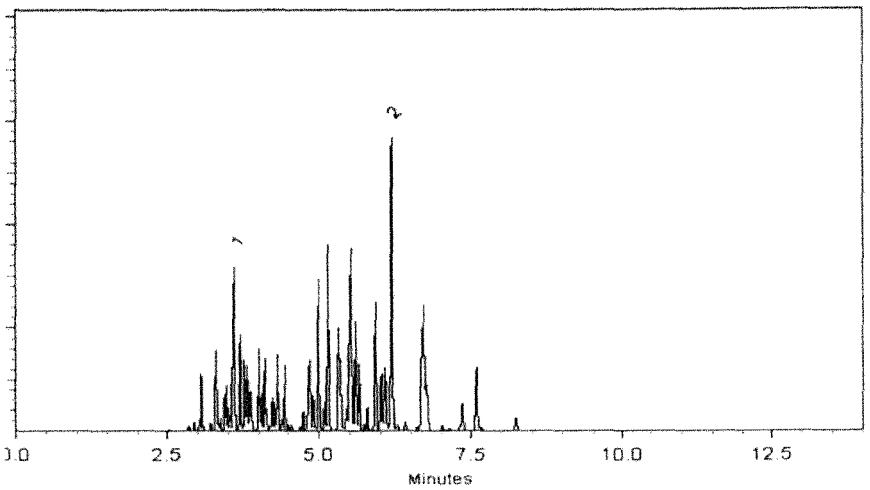
Carrier Gas:
helium-constant pressure 20 psi.

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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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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Rev 0

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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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.:** 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)

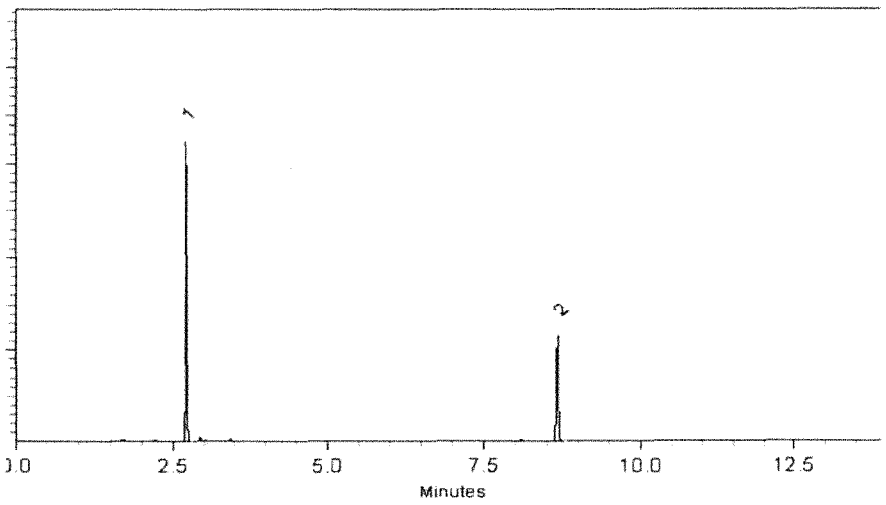
Carrier Gas:
helium-constant pressure 20 psi.

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
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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

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.
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Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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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)

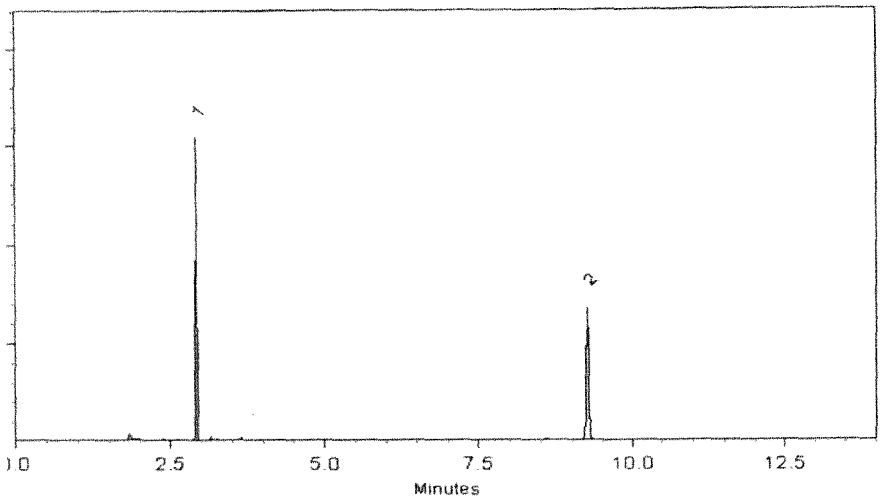
Carrier Gas:
helium-constant pressure 20 psi.

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®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 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 gravimetricly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By --

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW5-170830-01-PKSD-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.3		%	1	04/27/2018 14:16

SAMPLE NO.

SW5-170830-01-PKSD-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/27/2018 14:16

SAMPLE NO.

SW5-170830-01-PKSD-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.3		%	1	04/27/2018 14:16

SAMPLE NO.

SW5-170830-01-PKSD-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.1		%	1	04/27/2018 14:16

SAMPLE NO.

SW5-170830-01-PKSD-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/27/2018 14:17

SAMPLE NO.

SW5-170830-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.5		%	1	04/27/2018 14:17

SAMPLE NO.

SW5-170830-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/27/2018 14:17

SAMPLE NO.

SW5-170830-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/27/2018 14:17

SAMPLE NO.

SW5-170830-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/27/2018 14:17

SAMPLE NO.

SW5-170830-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/27/2018 14:17

SAMPLE NO.

SW4-170830-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/27/2018 14:17

SAMPLE NO.

SW4-170830-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	04/27/2018 14:17

SAMPLE NO.

SW4-170830-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/27/2018 14:18

SAMPLE NO.

SW4-170830-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	04/27/2018 14:18

SAMPLE NO.

SW4-170830-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158028015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/27/2018 14:18

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 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	1680585	C
Lipid									<0.030	U

SAMPLE NO.

1680588DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158028 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.8	3.2	11

Prep Log Report

Batch Information: OEXT 287267 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	05/08/2018 10:27				

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	**1680585**	Y	-0.005000	04/27/2018 14:15:36		10	5	1	0.9269	0.9268	M	1679886
LIPID	BLANK	**1680586**	Y	0.03000	04/27/2018 14:15:47		10	5	1	0.9278	0.9284	M	1679887
LIPID	PS	**40158013001**	Y	2.417	04/27/2018 14:15:55		10.0111	5	1	0.9232	0.9716	M	
LIPID	PS	**40158013002**	Y	2.030	04/27/2018 14:16:02		9.9753	5	1	0.9295	0.97	M	
LIPID	PS	**40158013003**	Y	2.440	04/27/2018 14:16:09		9.9779	5	1	0.9282	0.9769	M	
LIPID	PS	**40158013004**	Y	2.331	04/27/2018 14:16:17		9.9733	5	1	0.9293	0.9758	M	
LIPID	PS	**40158013005**	Y	2.477	04/27/2018 14:16:24		8.9822	5	1	0.9302	0.9747	M	
LIPID	PS	**40158028001**	Y	2.330	04/27/2018 14:16:35		9.9989	5	1	0.9284	0.975	M	
LIPID	PS	**40158028002**	Y	2.704	04/27/2018 14:16:42		9.9846	5	1	0.9291	0.9831	M	
LIPID	PS	**40158028003**	Y	2.347	04/27/2018 14:16:49		7.8617	5	1	0.927	0.9639	M	
LIPID	PS	**40158028004**	Y	3.138	04/27/2018 14:16:57		9.9746	5	1	0.9329	0.9955	M	
LIPID	PS	**40158028005**	Y	2.662	04/27/2018 14:17:05		9.9937	5	1	0.9279	0.9811	M	
LIPID	PS	**40158028006**	Y	3.531	04/27/2018 14:17:12		10.0107	5	1	0.9247	0.9954	M	
LIPID	PS	**40158028007**	Y	2.461	04/27/2018 14:17:19		9.9739	5	1	0.9283	0.9774	M	
LIPID	PS	**40158028008**	Y	2.528	04/27/2018 14:17:27		10.0076	5	1	0.9242	0.9748	M	
LIPID	PS	**40158028009**	Y	2.695	04/27/2018 14:17:35		10.0361	5	1	0.9257	0.9798	M	
LIPID	PS	**40158028010**	Y	2.531	04/27/2018 14:17:42		9.0855	5	1	0.9311	0.9771	M	
LIPID	PS	**40158028011**	Y	2.505	04/27/2018 14:17:51		10.002	5	1	0.928	0.9781	M	
LIPID	PS	**40158028012**	Y	2.952	04/27/2018 14:17:58		9.9935	5	1	0.9262	0.9852	M	

Prep Log Report

40158028

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	**40158028013**	Y	2.842	04/27/2018 14:18:06		9.9938	5	1	0.9254	0.9822	M	
LIPID	PS	**40158028014**	Y	2.965	04/27/2018 14:18:14		9.9835	5	1	0.9255	0.9847	M	
LIPID	RQS	**40158028015**	Y	2.846	04/27/2018 14:18:14		6.0605	5	1	0.9322	0.9667	M	
LIPID	DUP	**1680588**	Y	3.190	04/27/2018 14:18:43		5.6433	5	1	0.9283	0.9643	M	1679889
LIPID	MS	**1686012**	Y	3.458	04/27/2018 14:18:43		5.9579	5	1	0.9283	0.9695	M	1679888

40158028

Client Name: GE
Project #: 40158028
Sample Type: Fish
Date/Time Removed to Thaw: 04-17-18
Date/Time Prepped: 04-17-18
Prepped by: CWN + JL + PM
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	23.1	Y	N/A	N/A	Left / Both	N/A	4AG	1	Y	20.9	C	
2			Y	21.5				Left / Both			1	Y	19.3		
3			Y	8.9				Left / Both			1	Y	8.4		
4			Y	27.5				Left / Both			1	Y	25.6		
5			Y	32.0				Left / Both			1	Y	29.5		
6			Y	25.1				Left / Both			1	Y	23.3		
7			Y	19.7				Left / Both			1	Y	18.4		
8			Y	28.3				Left / Both			1	Y	26.3		
9			Y	28.3				Left / Both			1	Y	26.1		
10			Y	9.9				Left / Both			1	Y	9.3		
11			Y	14.1				Left / Both			1	Y	13.1		
12			Y	12.0				Left / Both			1	Y	11.3		
13			Y	18.5				Left / Both			1	Y	17.1		
14			Y	18.7				Left / Both			1	Y	17.6		
15	X	X	Y	22.3	X	X	X	Left / Both	X	X	1	Y	20.7	X	
								Left / Both							
								Left / Both							
					CWN	04-27-18		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.

CWN 04-17-18

(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

4/27/18
Date