Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40158013

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

May 16, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

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.: 40158013

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.: 40158013

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158013001	**SW3-170829-01-PKSD-05**	Tissue	08/29/17 15:34	10/05/17 09:40
40158013002	**SW3-170829-01-PKSD-04**	Tissue	08/29/17 15:32	10/05/17 09:40
40158013003	**SW3-170829-01-PKSD-03**	Tissue	08/29/17 15:30	10/05/17 09:40
40158013004	**SW3-170829-01-PKSD-02**	Tissue	08/29/17 15:29	10/05/17 09:40
40158013005	**SW3-170829-01-PKSD-01**	Tissue	08/29/17 15:25	10/05/17 09:40
40158013006	**SW2-170829-01-PKSD-05**	Tissue	08/29/17 16:02	10/05/17 09:40
40158013007	**SW2-170829-01-PKSD-04**	Tissue	08/29/17 16:00	10/05/17 09:40
40158013008	**SW2-170829-01-PKSD-03**	Tissue	08/29/17 15:59	10/05/17 09:40
40158013009	**SW2-170829-01-PKSD-02**	Tissue	08/29/17 15:57	10/05/17 09:40
40158013010	**SW2-170829-01-PKSD-01**	Tissue	08/29/17 15:52	10/05/17 09:40
40158013011	**ND3-170829-01-SPSH-02**	Tissue	08/29/17 12:17	10/05/17 09:40
40158013012	**ND3-170829-01-SPSH-01**	Tissue	08/29/17 12:14	10/05/17 09:40

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158013001	**SW3-170829-01-PKSD-05**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013002	**SW3-170829-01-PKSD-04**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013003	**SW3-170829-01-PKSD-03**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013004	**SW3-170829-01-PKSD-02**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013005	**SW3-170829-01-PKSD-01**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013006	**SW2-170829-01-PKSD-05**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013007	**SW2-170829-01-PKSD-04**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013008	**SW2-170829-01-PKSD-03**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013009	**SW2-170829-01-PKSD-02**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013010	**SW2-170829-01-PKSD-01**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013011	**ND3-170829-01-SPSH-02**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158013012	**ND3-170829-01-SPSH-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.: 40158013

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 16, 2018

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

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

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

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

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

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

QC Batch: 287454

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP (Lab ID: 1681910)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND3-170829-01-SPSH-01 (Lab ID: 40158013012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND3-170829-01-SPSH-02 (Lab ID: 40158013011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 287454

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

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

- MS (Lab ID: 1681908)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 16, 2018

QC Batch: 287454

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

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

- PCB-1242 (Aroclor 1242)

QC Batch: 286769

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40158013010

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

- MS (Lab ID: 1677645)
  - PCB-1242 (Aroclor 1242)

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)

QC Batch: 287596

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

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

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

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

Additional Comments:

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.: 40158013

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 16, 2018

General Information:
12 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.

QC Batch: 286925

R1: RPD value was outside control limits.

- DUP (Lab ID: 1678325)
  - Lipid

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.: 40158013

Sample: SW3-170829-01-PKSD-05 **Lab ID: 40158013001** Collected: 08/29/17 15:34 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**266**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**143**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**36.7J**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	11096-82-5	
PCB, Total	**446**	ug/kg	99.9	22.8	2	04/27/18 10:44	05/03/18 20:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		2	04/27/18 10:44	05/03/18 20:51	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		2	04/27/18 10:44	05/03/18 20:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.4**	%	0.030	0.030	1		04/27/18 14:15		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: SW3-170829-01-PKSD-04 **Lab ID: 40158013002** Collected: 08/29/17 15:32 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	05/03/18 21:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**927**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**387**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**101J**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	11096-82-5	
PCB, Total	**1410**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		5	04/27/18 10:44	05/03/18 21:08	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		5	04/27/18 10:44	05/03/18 21:08	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	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.: 40158013

Sample: SW3-170829-01-PKSD-03 **Lab ID: 40158013003** Collected: 08/29/17 15:30 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	05/03/18 21:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**963**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**422**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**94.3J**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	11096-82-5	
PCB, Total	**1480**	ug/kg	251	57.1	5	04/27/18 10:44	05/03/18 21:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		5	04/27/18 10:44	05/03/18 21:24	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		5	04/27/18 10:44	05/03/18 21:24	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.4**	%	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.: 40158013

Sample: SW3-170829-01-PKSD-02 **Lab ID: 40158013004** Collected: 08/29/17 15:29 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)	**<57.2**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.2**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.2**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.2**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**974**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**410**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.9J**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	11096-82-5	
PCB, Total	**1470**	ug/kg	251	57.2	5	04/27/18 10:44	05/03/18 21:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		5	04/27/18 10:44	05/03/18 21:40	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		5	04/27/18 10:44	05/03/18 21:40	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.: 40158013

Sample: SW3-170829-01-PKSD-01 **Lab ID: 40158013005** Collected: 08/29/17 15:25 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)	**<12.7**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<12.7**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<12.7**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<12.7**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**252**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**104**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.4J**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	11096-82-5	
PCB, Total	**376**	ug/kg	55.7	12.7	1	04/27/18 10:44	05/03/18 21:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		1	04/27/18 10:44	05/03/18 21:56	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/27/18 10:44	05/03/18 21:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	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.: 40158013

Sample: SW2-170829-01-PKSD-05 **Lab ID: 40158013006** Collected: 08/29/17 16:02 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)	**<145**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<145**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<145**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<145**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**1940**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**915**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**165J**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	11096-82-5	
PCB, Total	**3020**	ug/kg	636	145	10	05/02/18 09:20	05/08/18 06:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		10	05/02/18 09:20	05/08/18 06:29	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		10	05/02/18 09:20	05/08/18 06:29	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%	0.030	0.030	1		05/02/18 10:15		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: SW2-170829-01-PKSD-04 **Lab ID: 40158013007** Collected: 08/29/17 16:00 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)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**324J**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**1630**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**804**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**132J**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	11096-82-5	
PCB, Total	**2890**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 06:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	101	%	60-140		10	05/02/18 09:20	05/08/18 06:45	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		10	05/02/18 09:20	05/08/18 06:45	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	0.030	0.030	1		05/02/18 10:15		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: SW2-170829-01-PKSD-03 **Lab ID: 40158013008** Collected: 08/29/17 15:59 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)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**1140**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**597**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**138J**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	11096-82-5	
PCB, Total	**1870**	ug/kg	501	114	10	05/02/18 09:20	05/08/18 07:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		10	05/02/18 09:20	05/08/18 07:01	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		10	05/02/18 09:20	05/08/18 07:01	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%	0.030	0.030	1		05/02/18 10:15		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: SW2-170829-01-PKSD-02 **Lab ID: 40158013009** Collected: 08/29/17 15:57 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**1420**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**730**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**160J**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	11096-82-5	
PCB, Total	**2310**	ug/kg	502	114	10	05/02/18 09:20	05/08/18 07:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		10	05/02/18 09:20	05/08/18 07:16	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		10	05/02/18 09:20	05/08/18 07:16	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		05/02/18 10:15		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: SW2-170829-01-PKSD-01 **Lab ID: 40158013010** Collected: 08/29/17 15:52 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)	**<207**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**388J**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<207**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<207**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	53469-21-9	M6
PCB-1248 (Aroclor 1248)	**2900**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**1260**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**225J**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	11096-82-5	
PCB, Total	**4770**	ug/kg	906	207	10	04/24/18 07:41	04/25/18 21:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		10	04/24/18 07:41	04/25/18 21:34	877-09-8	
Decachlorobiphenyl (S)	117	%	60-140		10	04/24/18 07:41	04/25/18 21:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%	0.030	0.030	1		04/25/18 08:52		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: ND3-170829-01-SPSH-02 **Lab ID: 40158013011** Collected: 08/29/17 12:17 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**2340**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**1080**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**256J**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	11096-82-5	
PCB, Total	**3680**	ug/kg	997	227	20	05/01/18 07:23	05/07/18 23:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/07/18 23:21	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/07/18 23:21	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.6**	%	0.030	0.030	1		05/01/18 14:22		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Sample: ND3-170829-01-SPSH-01 **Lab ID: 40158013012** Collected: 08/29/17 12:14 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<171**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<171**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<171**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<171**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**2410**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**1090**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**242J**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	11096-82-5	
PCB, Total	**3740**	ug/kg	751	171	15	05/01/18 07:23	05/08/18 00:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	05/01/18 07:23	05/08/18 00:08	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	05/01/18 07:23	05/08/18 00:08	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.3**	%	0.030	0.030	1		05/01/18 14:22		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 286769 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158013010

METHOD BLANK: 1677643 | Matrix: Tissue
Associated Lab Samples: 40158013010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/25/18 14:57	
Decachlorobiphenyl (S)	%	96	60-140		04/25/18 14:57	
Tetrachloro-m-xylene (S)	%	76	60-140		04/25/18 14:57	

LABORATORY CONTROL SAMPLE: 1677644

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	241	96	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			99	60-140	
Tetrachloro-m-xylene (S)	%			82	60-140	

MATRIX SPIKE SAMPLE: 1677645

Parameter	Units	40158013010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<207		<140			
PCB-1221 (Aroclor 1221)	ug/kg	388J		529J			
PCB-1232 (Aroclor 1232)	ug/kg	<207		<140			
PCB-1242 (Aroclor 1242)	ug/kg	<207	306	1360	445	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	2900		3010			
PCB-1254 (Aroclor 1254)	ug/kg	1260		1250			
PCB-1260 (Aroclor 1260)	ug/kg	225J		220J			
Decachlorobiphenyl (S)	%				119	60-140	
Tetrachloro-m-xylene (S)	%				100	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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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

SAMPLE DUPLICATE: 1677646

Parameter	Units	40158013010 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<207	<128		40	
PCB-1221 (Aroclor 1221)	ug/kg	388J	313J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<207	<128		40	
PCB-1242 (Aroclor 1242)	ug/kg	<207	<128		40	
PCB-1248 (Aroclor 1248)	ug/kg	2900	2290	23	40	
PCB-1254 (Aroclor 1254)	ug/kg	1260	1000	23	40	
PCB-1260 (Aroclor 1260)	ug/kg	225J	179J		40	
Decachlorobiphenyl (S)	%	117	106	56		
Tetrachloro-m-xylene (S)	%	97	89	54		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287158 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158013001, 40158013002, 40158013003, 40158013004, 40158013005

METHOD BLANK: 1679886 | Matrix: Tissue
Associated Lab Samples: 40158013001, 40158013002, 40158013003, 40158013004, 40158013005

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	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

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		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158013011, 40158013012

METHOD BLANK: 1681906 | Matrix: Tissue
Associated Lab Samples: 40158013011, 40158013012

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

LABORATORY CONTROL SAMPLE: 1681907

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

MATRIX SPIKE SAMPLE: 1681908

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

SAMPLE DUPLICATE: 1681909

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

SAMPLE DUPLICATE: 1681910

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287596 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158013006, 40158013007, 40158013008, 40158013009

METHOD BLANK: 1682672 | Matrix: Tissue
Associated Lab Samples: 40158013006, 40158013007, 40158013008, 40158013009

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

LABORATORY CONTROL SAMPLE: 1682673

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

MATRIX SPIKE SAMPLE: 1682675

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

SAMPLE DUPLICATE: 1682674

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

SAMPLE DUPLICATE: 1682677

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 286925 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158013010

METHOD BLANK: 1678322 | Matrix: Tissue
Associated Lab Samples: 40158013010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/25/18 08:49	

MATRIX SPIKE SAMPLE: 1683167

Parameter	Units	40158013010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	4.0		2.7			

SAMPLE DUPLICATE: 1678325

Parameter	Units	40158013010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.0	2.3	53	40	R1

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287267 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158013001, 40158013002, 40158013003, 40158013004, 40158013005

METHOD BLANK: 1680585 | Matrix: Tissue
Associated Lab Samples: 40158013001, 40158013002, 40158013003, 40158013004, 40158013005

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	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287559 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158013011, 40158013012

METHOD BLANK: 1682357 | Matrix: Tissue
Associated Lab Samples: 40158013011, 40158013012

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

MATRIX SPIKE SAMPLE: 1683590

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

SAMPLE DUPLICATE: 1682360

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

SAMPLE DUPLICATE: 1682361

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

QC Batch: 287607 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40158013006, 40158013007, 40158013008, 40158013009

METHOD BLANK: 1682697 Matrix: Tissue
Associated Lab Samples: 40158013006, 40158013007, 40158013008, 40158013009

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

MATRIX SPIKE SAMPLE: 1682700

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

SAMPLE DUPLICATE: 1682699

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

SAMPLE DUPLICATE: 1682701

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

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

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.

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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.

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

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158013

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158013001	**SW3-170829-01-PKSD-05**	EPA 3541	287158	EPA 8082A Mod	287392
40158013002	**SW3-170829-01-PKSD-04**	EPA 3541	287158	EPA 8082A Mod	287392
40158013003	**SW3-170829-01-PKSD-03**	EPA 3541	287158	EPA 8082A Mod	287392
40158013004	**SW3-170829-01-PKSD-02**	EPA 3541	287158	EPA 8082A Mod	287392
40158013005	**SW3-170829-01-PKSD-01**	EPA 3541	287158	EPA 8082A Mod	287392
40158013006	**SW2-170829-01-PKSD-05**	EPA 3541	287596	EPA 8082A Mod	287775
40158013007	**SW2-170829-01-PKSD-04**	EPA 3541	287596	EPA 8082A Mod	287775
40158013008	**SW2-170829-01-PKSD-03**	EPA 3541	287596	EPA 8082A Mod	287775
40158013009	**SW2-170829-01-PKSD-02**	EPA 3541	287596	EPA 8082A Mod	287775
40158013010	**SW2-170829-01-PKSD-01**	EPA 3541	286769	EPA 8082A Mod	286954
40158013011	**ND3-170829-01-SPSH-02**	EPA 3541	287454	EPA 8082A Mod	287632
40158013012	**ND3-170829-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40158013001	**SW3-170829-01-PKSD-05**	Pace Lipid	287267		
40158013002	**SW3-170829-01-PKSD-04**	Pace Lipid	287267		
40158013003	**SW3-170829-01-PKSD-03**	Pace Lipid	287267		
40158013004	**SW3-170829-01-PKSD-02**	Pace Lipid	287267		
40158013005	**SW3-170829-01-PKSD-01**	Pace Lipid	287267		
40158013006	**SW2-170829-01-PKSD-05**	Pace Lipid	287607		
40158013007	**SW2-170829-01-PKSD-04**	Pace Lipid	287607		
40158013008	**SW2-170829-01-PKSD-03**	Pace Lipid	287607		
40158013009	**SW2-170829-01-PKSD-02**	Pace Lipid	287607		
40158013010	**SW2-170829-01-PKSD-01**	Pace Lipid	286925		
40158013011	**ND3-170829-01-SPSH-02**	Pace Lipid	287559		
40158013012	**ND3-170829-01-SPSH-01**	Pace Lipid	287559		

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40158013

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-04
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	SW3-170829-01	SW3-170829-01-PKSD-05	8/29/2017	15:34	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
002	SW3-170829-01	SW3-170829-01-PKSD-04	8/29/2017	15:32	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
003	SW3-170829-01	SW3-170829-01-PKSD-03	8/29/2017	15:30	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
004	SW3-170829-01	SW3-170829-01-PKSD-02	8/29/2017	15:29	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
005	SW3-170829-01	SW3-170829-01-PKSD-01	8/29/2017	15:25	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
006	SW2-170829-01	SW2-170829-01-PKSD-05	8/29/2017	16:02	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
007	SW2-170829-01	SW2-170829-01-PKSD-04	8/29/2017	16:00	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
008	SW2-170829-01	SW2-170829-01-PKSD-03	8/29/2017	15:59	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
009	SW2-170829-01	SW2-170829-01-PKSD-02	8/29/2017	15:57	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
010	SW2-170829-01	SW2-170829-01-PKSD-01	8/29/2017	15:52	☑	1	F	WH	☐	☐	☐	☑	☑	☐	

1-ziplock

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 M Broker	Print Name M Broker	Print Name S. Bittle	Print Name S. Bittle	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE	Company PACE	Company Pace
Date/Time 8/30/17	Date/Time 8/30/17 9:50	Date/Time 8/30/17 10:35	Date/Time 8/30/17 10:35	Date/Time 10/4/17 16:00	Date/Time 10/5/17 0940

Allen Pace 10/5/17 0940

Date Printed: 8/29/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-04
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	ND3-170829-01	ND3-170829-01-SPSH-02	8/29/2017	12:17	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
012	ND3-170829-01	ND3-170829-01-SPSH-01	8/29/2017	12:14	☐	1	F	WH	☑	☐	☐	☑	☑	☐	

1. ziplock

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 M Brooks	Print Name M Brooks	Print Name N. Bilfield	Print Name N. Bilfield	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE	Company PACE	Company Fedex
Date/Time 8/30/17	Date/Time 8/30/17 930	Date/Time 8/30/17 10:35	Date/Time 8/30/17 10:35	Date/Time 10/4/17 16:00	Date/Time 10/5/17 09:40

Allen Alecia Pace 10/5/17 09:40

Date Printed: 8/29/2017 * 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#: 40158013**

40158013

Client Name: GE

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

Tracking #: 4099947047799

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: / /Corr: / **Biological Tissue is Frozen:** ☑ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 10/5/17
Initials: [illegible]

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-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): 40158013
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 1°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample SW2-170829-01-PKSD-01 was designated as the parent sample for the MS for extraction batch 286769 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:10 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MS are not applicable. The “M6” data qualifier was applied to the parent result on the final report.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 287158, 287454, and 287596 and one portion of each parent sample was fortified with Aroclor 1242. 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 SW2-170829-01-PKSD-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions: All samples with the exception of SW3-170829-01-PKSD-01 were analyzed at a dilution to bring the level of Aroclors within the instrument calibration range.

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

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

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

Sample SW2-170829-01-PKSD-01 was designated as the parent duplicate sample for Lipid DUP 1678325. The QAPP specified precision criteria were not met for DUP 1678325; the parent sample was reported with the "R1" data qualifier.

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

Signed: Leigh A Begalske Date: 05/21/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1677643	1677643BLANK	96	76
1677644	1677644LCS	99	82
1677645	1677645MS	119	100
1677646	1677646DUP	106	89
40158013010	SW2-170829-01-PKSD-01	117	97

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1679886	1679886BLANK	85	68
1679887	1679887LCS	88	78
40158013001	SW3-170829-01-PKSD-05	88	91
40158013002	SW3-170829-01-PKSD-04	96	90
40158013003	SW3-170829-01-PKSD-03	93	87
40158013004	SW3-170829-01-PKSD-02	94	86
40158013005	SW3-170829-01-PKSD-01	89	98

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1681906	1681906BLANK	90	77
1681907	1681907LCS	92	80
40158013011	ND3-170829-01-SPSH-02	0*	0*
40158013012	ND3-170829-01-SPSH-01	0*	0*

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1682672	1682672BLANK	76	66
1682673	1682673LCS	87	76
40158013006	SW2-170829-01-PKSD-05	105	100
40158013007	SW2-170829-01-PKSD-04	107	101
40158013008	SW2-170829-01-PKSD-03	100	91
40158013009	SW2-170829-01-PKSD-02	97	88

	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: 04/24/2018

Instrument: 40GCSJ

Lab File ID: 042518.B\042518008.D

Lab Sample ID: 1677644LCS

Date Analyzed (1): 04/25/2018

LCS Lot No: 192096

SDG No.: 40158013

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	241	96	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 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.: 40158013

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 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718032.D

Lab Sample ID: 1681907LCS

Date Analyzed (1): 05/07/2018

LCS Lot No: 192096

SDG No.: 40158013

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718057.D

Lab Sample ID: 1682673LCS

Date Analyzed (1): 05/08/2018

LCS Lot No: 192096

SDG No.: 40158013

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/24/2018

Instrument: 40GCSJ

Parent Sample ID: SW2-170829-01-PKSD-01

Matrix Spike - Sample No: 1677645MS

Date Analyzed (1): 04/25/2018

Lab File ID: 042518.B\042518033.D

SDG No.: 40158013

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	306	<207	1360	445	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/27/2018

Instrument: 40GCSK

Parent Sample ID: 40158028015

Matrix Spike - Sample No: 1679888MS

Date Analyzed (1): 05/04/2018

Lab File ID: 050318.B\050318131.D

SDG No.: 40158013

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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Parent Sample ID: 40157948007

Matrix Spike - Sample No: 1681908MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718036.D

SDG No.: 40158013

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

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument: 40GCSK

Parent Sample ID: 40158029010

Matrix Spike - Sample No: 1682675MS

Date Analyzed (1): 05/08/2018

Lab File ID: 050718.B\050718075.D

SDG No.: 40158013

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

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/24/2018

Instrument 40GCSJ

Lab Sample ID: SW2-170829-01-PKSD-01

Duplicate Sample No: 40158013010DUP

Date Analyzed: 04/25/2018

Lab File ID: 042518.B\042518034.D

SDG No.: 40158013

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<207	<128		0-40
PCB-1221 (Aroclor 1221)	388J	313J		0-40
PCB-1232 (Aroclor 1232)	<207	<128		0-40
PCB-1242 (Aroclor 1242)	<207	<128		0-40
PCB-1248 (Aroclor 1248)	2900	2290	23	0-40
PCB-1254 (Aroclor 1254)	1260	1000	23	0-40
PCB-1260 (Aroclor 1260)	225J	179J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/27/2018

Instrument 40GCSK

Lab Sample ID: 40158028015

Duplicate Sample No: 40158028015DUP

Date Analyzed: 05/04/2018

Lab File ID: 050318.B\050318133.D

SDG No.: 40158013

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.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: 40157948007

Duplicate Sample No: 40157948007DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718037.D

SDG No.: 40158013

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

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: 40158017006

Duplicate Sample No: 40158017006DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718047.D

SDG No.: 40158013

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

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: 40157948010

Duplicate Sample No: 40157948010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718062.D

SDG No.: 40158013

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

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/02/2018

Instrument 40GCSK

Lab Sample ID: 40158029010

Duplicate Sample No: 40158029010DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718078.D

SDG No.: 40158013

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

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1677643BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1677643

Lab File ID: 042518.B\042518007.D Date Analyzed: 04/25/2018 Time:14:57

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1677644LCS	1677644	042518.B\042518008.D	04/25/2018 15:13
SW2-170829-01-PKSD-01	40158013010	042518.B\042518032.D	04/25/2018 21:34
1677645MS	1677645	042518.B\042518033.D	04/25/2018 21:50
1677646DUP	1677646	042518.B\042518034.D	04/25/2018 22:06

SAMPLE NO.

1679886BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 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
SW3-170829-01-PKSD-05	40158013001	050318.B\050318083.D	05/03/2018 20:51
SW3-170829-01-PKSD-04	40158013002	050318.B\050318085.D	05/03/2018 21:08
SW3-170829-01-PKSD-03	40158013003	050318.B\050318087.D	05/03/2018 21:24
SW3-170829-01-PKSD-02	40158013004	050318.B\050318089.D	05/03/2018 21:40
SW3-170829-01-PKSD-01	40158013005	050318.B\050318091.D	05/03/2018 21:56
1679889DUP	1679889	050318.B\050318133.D	05/04/2018 03:36

SAMPLE NO.

1681906BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

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

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

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1681907LCS	1681907	050718.B\050718032.D	05/07/2018 21:30
1681909DUP	1681909	050718.B\050718037.D	05/07/2018 22:49
ND3-170829-01-SPSH-02	40158013011	050718.B\050718039.D	05/07/2018 23:21
ND3-170829-01-SPSH-01	40158013012	050718.B\050718042.D	05/08/2018 00:08
1681910DUP	1681910	050718.B\050718047.D	05/08/2018 01:28

SAMPLE NO.

1682672BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158013 Contract: HUDSON RIVER REMEDIAL

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

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

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1682673LCS	1682673	050718.B\050718057.D	05/08/2018 04:06
1682674DUP	1682674	050718.B\050718062.D	05/08/2018 05:25
SW2-170829-01-PKSD-05	40158013006	050718.B\050718066.D	05/08/2018 06:29
SW2-170829-01-PKSD-04	40158013007	050718.B\050718067.D	05/08/2018 06:45
SW2-170829-01-PKSD-03	40158013008	050718.B\050718068.D	05/08/2018 07:01
SW2-170829-01-PKSD-02	40158013009	050718.B\050718069.D	05/08/2018 07:16
1682677DUP	1682677	050718.B\050718078.D	05/08/2018 14:35

SAMPLE NO.

SW3-170829-01-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.: 40158013
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158013001
Date Analyzed: 05/03/2018 20:51
Lab File ID: 050318.B\050318083.D
Initial wt/vol: 10.0111 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	266	
11097-69-1	PCB-1254 (Aroclor 1254)	143	
11096-82-5	PCB-1260 (Aroclor 1260)	36.7	J
1336-36-3	PCB, Total	446	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318083.D
Lab Smp Id: 40158013001 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 20:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013001 x2,
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: 83
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.012	11234	10615	0.945	0.02		
1.039	10110	10220	1.011	0.02		
1.055	10330	10281	0.995	0.02		
1.080	10279	8697	0.846	0.02		
1.178	16887	17748	1.051	0.04		
1.729	15153	12889	0.851	0.03		
1.819	66151	60455	0.914	0.17		
2.181	13155	12364	0.940	0.03		
2.229	24388	26400	1.083	0.06		
2.266	10053	10384	1.033	0.02		
2.354	28935	28078	0.970	0.07		
2.378	38542	36843	0.956	0.10		
2.473	109604	83173	0.759	0.28		
2.505	11896	10961	0.921	0.03		
2.549	5470830	5594014	1.023	14.26	$ 2 Tetrachloro-m-xylene	
2.619	16511	15363	0.930	0.04		
2.859	25366	22327	0.880	0.06		
2.924	46799	41510	0.887	0.12		
3.047	23654	15935	0.674	0.06		
3.092	24963	24950	0.999	0.06		
3.129	77794	76933	0.989	0.20		
3.395	113251	113833	1.005	0.29		
3.422	114014	105917	0.929	0.29		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.512	154278	147977	0.959	0.40	
3.599	110322	98036	0.889	0.28	
3.726	19944	16608	0.833	0.05	
3.813	164403	160529	0.976	0.42	
3.838	81069	66972	0.826	0.21	
3.896	276532	380793	1.377	0.72	
3.908	605294	494559	0.817	1.57	
4.019	137218	98837	0.720	0.35	
4.077	124482	99697	0.801	0.32	
4.143	61346	47761	0.779	0.15	
4.297	1051356	962908	0.916	2.74	
4.344	1074654	1029875	0.958	2.80	6 Aroclor 1248
4.376	1202028	959010	0.798	3.13	
4.502	240941	218175	0.906	0.62	
4.537	264523	228145	0.862	0.68	
4.581	22021	23365	1.061	0.05	
4.600	50062	46031	0.919	0.13	
4.630	696760	646654	0.928	1.81	6 Aroclor 1248
4.672	101129	81650	0.807	0.26	
4.703	72102	44737	0.620	0.18	
4.766	87423	67679	0.774	0.22	
4.820	102729	75993	0.740	0.26	
4.853	207007	180297	0.871	0.53	
4.898	694444	638623	0.920	1.81	6 Aroclor 1248
4.933	475633	433424	0.911	1.24	
4.964	1460819	955423	0.654	3.80	6 Aroclor 1248
5.042	263254	195685	0.743	0.68	
5.124	414996	336269	0.810	1.08	6 Aroclor 1248
5.186	497165	421995	0.849	1.29	
5.246	1037751	896520	0.864	2.70	7 Aroclor 1254
5.298	924612	795873	0.861	2.41	
5.368	108909	97635	0.896	0.28	
5.396	128854	91121	0.707	0.33	
5.449	284386	245259	0.862	0.74	
5.493	526755	475424	0.903	1.37	7 Aroclor 1254
5.535	642306	526516	0.820	1.67	
5.565	52267	63395	1.213	0.13	
5.596	1101517	933330	0.847	2.87	7 Aroclor 1254
5.661	70267	61329	0.873	0.18	
5.691	122914	89856	0.731	0.32	
5.760	321207	271169	0.844	0.83	
5.798	113264	87092	0.769	0.29	
5.827	260857	191010	0.732	0.68	
5.877	1595420	1172826	0.735	4.16	
5.973	157059	91753	0.584	0.40	
6.016	117656	88733	0.754	0.30	
6.079	275664	249276	0.904	0.71	
6.112	551205	493996	0.896	1.43	7 Aroclor 1254
6.141	1027173	819930	0.798	2.67	
6.254	221695	125361	0.565	0.57	
6.312	71310	83790	1.175	0.18	
6.329	131751	100470	0.763	0.34	
6.387	1363492	1150769	0.844	3.55	7 Aroclor 1254
6.420	136664	113345	0.829	0.35	
6.462	69480	48886	0.704	0.18	
6.518	144887	110193	0.761	0.37	
6.596	358463	316887	0.884	0.93	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.624	247040	220453	0.892	0.64	
6.647	89082	78290	0.879	0.23	
6.693	35330	30723	0.870	0.09	
6.748	54055	30819	0.570	0.14	
6.804	124844	87248	0.699	0.32	
6.845	143232	109561	0.765	0.37	
6.888	181593	145181	0.799	0.47	
6.925	115162	75453	0.655	0.30	
6.999	40078	26920	0.672	0.10	
7.030	146112	106438	0.728	0.38	
7.090	313444	264559	0.844	0.81	8 Aroclor 1260
7.120	43550	45462	1.044	0.11	
7.178	25743	26460	1.028	0.06	
7.203	85622	38059	0.444	0.22	
7.268	36014	20366	0.565	0.09	
7.337	170210	138211	0.812	0.44	8 Aroclor 1260
7.367	125808	76926	0.611	0.32	
7.424	88954	52333	0.588	0.23	
7.476	118962	107999	0.908	0.31	
7.510	32700	41210	1.260	0.08	
7.527	226953	133043	0.586	0.59	8 Aroclor 1260
7.665	35880	27310	0.761	0.09	
7.698	49356	31009	0.628	0.12	
7.747	35781	38260	1.069	0.09	
7.782	56316	49345	0.876	0.14	
7.812	68364	50550	0.739	0.17	
7.838	63524	35995	0.567	0.16	
7.882	12220	18251	1.494	0.03	
7.896	34594	22475	0.650	0.09	
7.985	75076	60716	0.809	0.19	8 Aroclor 1260
8.136	51135	44890	0.878	0.13	
8.225	14527	11512	0.792	0.03	
8.361	113545	99413	0.876	0.29	
8.441	79348	50048	0.631	0.20	
8.657	5871829	5164433	0.880	15.88	$ 12 Decachlorobiphenyl
8.814	11919	8918	0.748	0.03	
9.001	183081	100084	0.547	0.47	
9.256	16818	17622	1.048	0.04	
9.526	210248	122989	0.585	0.54	
	38349669	33108875		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318083.D
Lab Smp Id: 40158013001 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 20:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013001 x2,
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: 83
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.011	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

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.549	2.549	0.000	5470829	0.04542	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	1074654	0.45052	450	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	696760	0.16404	160	0.00- 20.00	64.84	BA
4.898	4.898	0.000	694443	0.34091	340	0.00- 20.00	64.62	BA
4.964	4.963	0.001	1460819	0.26670	270	0.00- 20.00	135.93	BA
5.123	5.123	0.000	414995	0.10969	110	0.00- 20.00	38.62	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1037751	0.18401	180	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	526755	0.11295	110	0.00- 20.00	50.76	BA
5.595	5.596	-0.001	1101517	0.12865	130	0.00- 20.00	106.14	BA
6.111	6.113	-0.002	551205	0.10375	100	0.00- 20.00	53.12	BA
6.387	6.387	0.000	1363491	0.18624	190	0.00- 20.00	131.39	BA
Average of Peak Concentrations =					140			
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	313444	0.02663	27	0.00- 20.00	22.99	BA
7.337	7.338	-0.001	170210	0.03009	30	0.00- 20.00	12.48	BA
7.527	7.529	-0.002	226952	0.06638	66	0.00- 20.00	16.64	BA
7.984	7.987	-0.003	75075	0.02370	24	0.00- 20.00	5.51	BA
Average of Peak Concentrations =					37			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	5871829	0.04409	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\050318083.D

Date : 03-MAY-2018 20:51

Client ID: SW3-170829-01-PKSD-

Instrument: 40GCSK.i

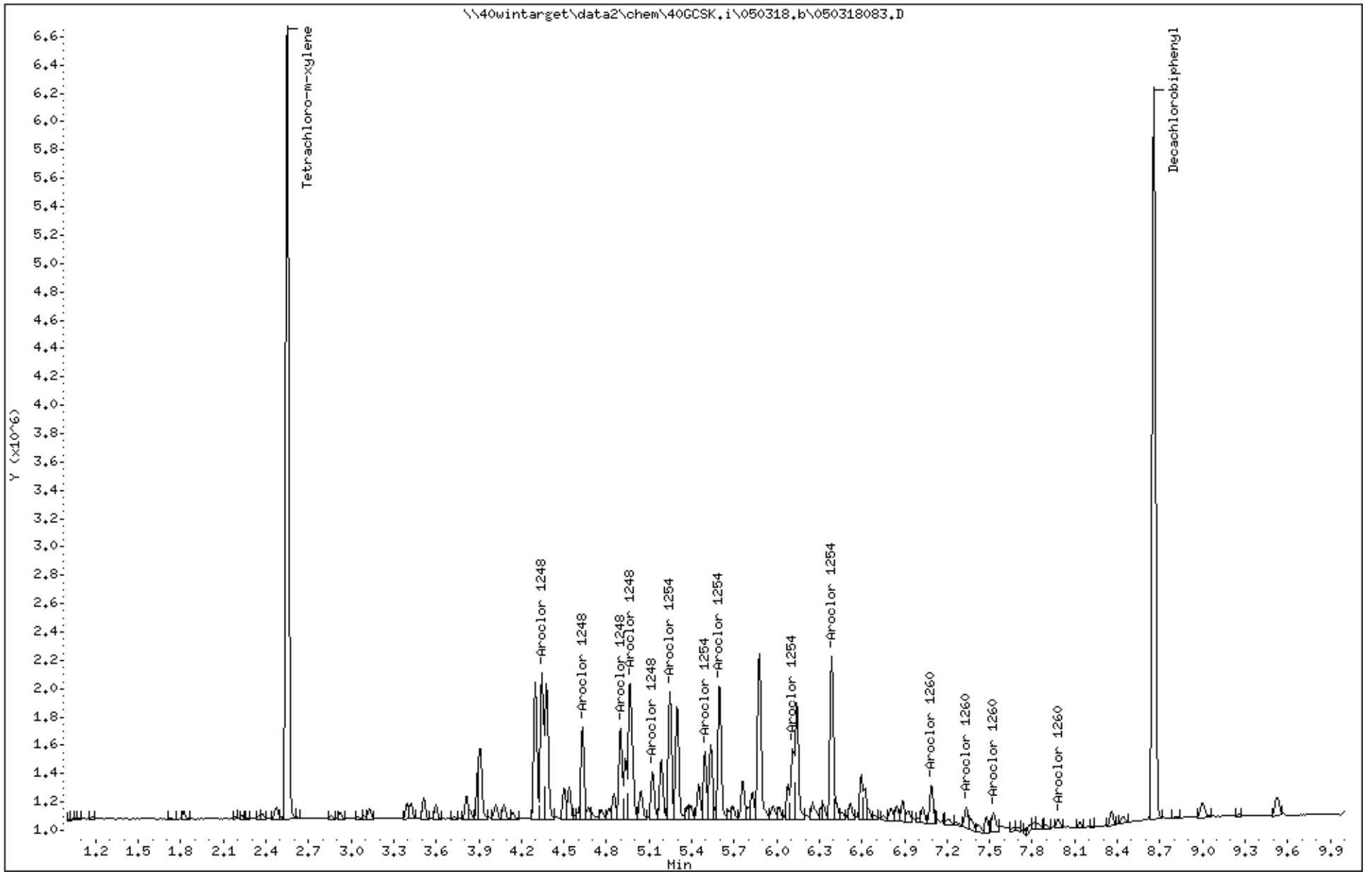
Sample Info: 40158013001 x2,

Volume Injected (uL): 1.0

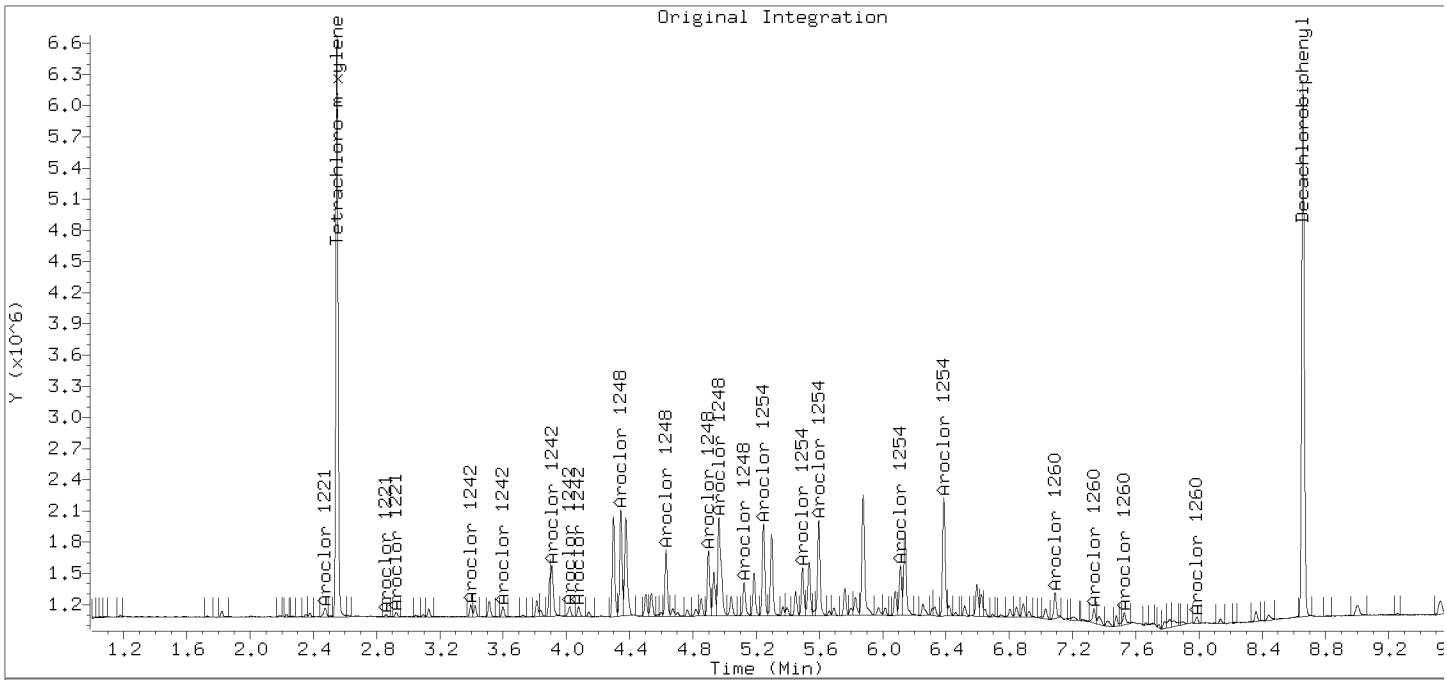
Operator: BLM

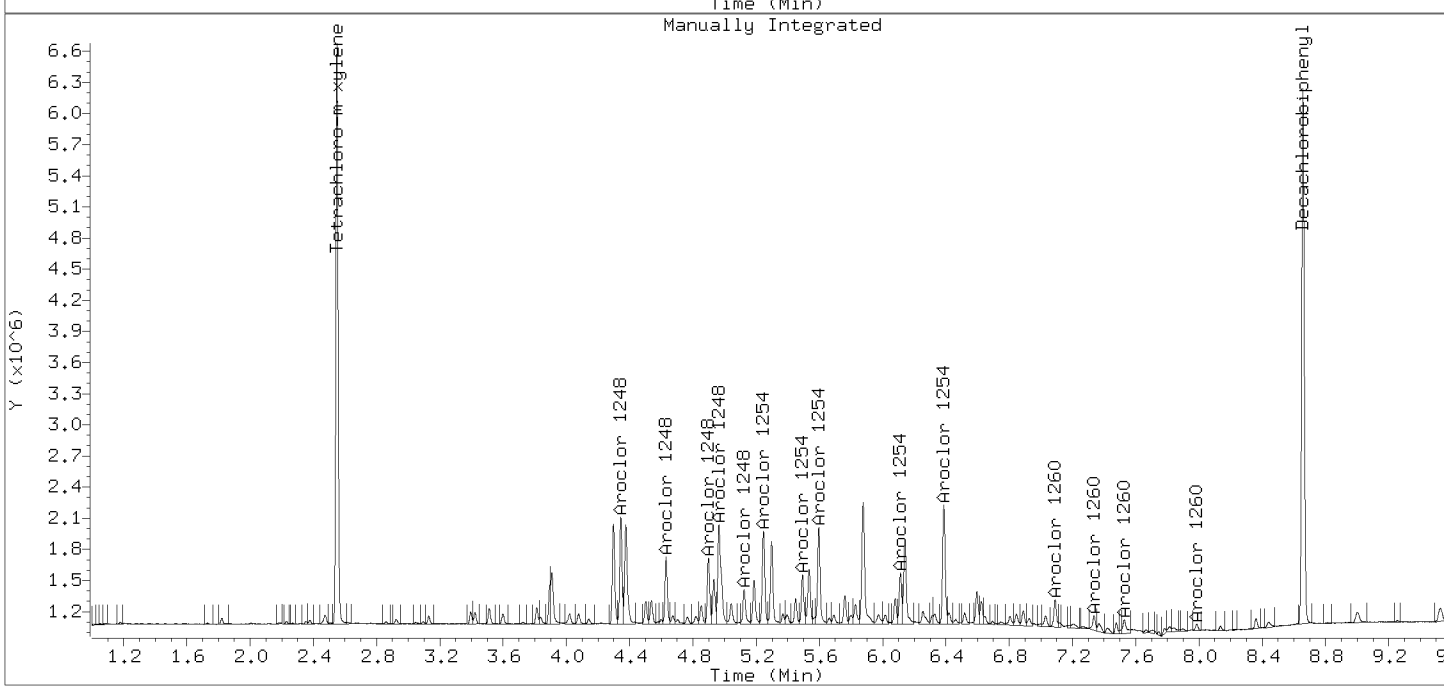
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318083.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 20:51 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	113250	0	
Aroclor 1016	113250	0	
Aroclor 1016	113250	0	
Aroclor 1016	113250	0	
Aroclor 1016	113250	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	46798	0	
Aroclor 1232	46798	0	
Aroclor 1232	46798	0	
Aroclor 1232	46798	0	

Aroclor 1232	46798	0	
Aroclor 1242	113250	0	
Aroclor 1242	113250	0	
Aroclor 1242	113250	0	
Aroclor 1242	113250	0	
Aroclor 1242	113250	0	
Aroclor 1248	1053775	1074654	BA
Aroclor 1248	1053775	1074654	BA
Aroclor 1248	1053775	1074654	BA
Aroclor 1248	1053775	1074654	BA
Aroclor 1248	1053775	1074654	BA
Aroclor 1254	995769	1037751	BA
Aroclor 1254	995769	1037751	BA
Aroclor 1254	995769	1037751	BA
Aroclor 1254	995769	1037751	BA
Aroclor 1254	995769	1037751	BA
Aroclor 1260	1324137	0	BA
Aroclor 1260	1324137	0	BA
Aroclor 1260	1324137	0	BA
Aroclor 1260	1324137	0	BA
Aroclor 1260	1324137	0	BA
Tetrachloro-m-xylene	5470829	5470829	
Decachlorobiphenyl	5871829	5871829	

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SAMPLE NO.

SW3-170829-01-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.: 40158013
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158013002
Date Analyzed: 05/03/2018 21:08
Lab File ID: 050318.B\050318085.D
Initial wt/vol: 9.9753 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)	927	
11097-69-1	PCB-1254 (Aroclor 1254)	387	
11096-82-5	PCB-1260 (Aroclor 1260)	101	J
1336-36-3	PCB, Total	1410	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318085.D
Lab Smp Id: 40158013002 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013002 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: 85
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	9.975	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.203	16898	16075	0.951	0.04		
1.728	10850	11049	1.018	0.02		
1.850	12903	11422	0.885	0.03		
2.060	18500	9683	0.523	0.05		
2.352	11161	11987	1.074	0.03		
2.376	16654	16023	0.962	0.04		
2.475	175309	135652	0.774	0.47		
2.549	2158997	2190518	1.015	5.84	$ 2 Tetrachloro-m-xylene	
2.861	22074	19223	0.871	0.05		
2.925	83776	73387	0.876	0.22		
3.093	12301	12518	1.018	0.03		
3.131	119079	119502	1.004	0.32		
3.396	126184	122169	0.968	0.34		
3.422	195331	182578	0.935	0.52		
3.512	260423	252469	0.969	0.70		
3.599	373837	352930	0.944	1.01		
3.726	44086	35729	0.810	0.11		
3.812	364861	351862	0.964	0.98		
3.837	133791	120302	0.899	0.36		
3.895	1374407	797485	0.580	3.72		
4.020	263690	214234	0.812	0.71		
4.076	278688	236893	0.850	0.75		
4.143	122953	108719	0.884	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.219	15268	10696	0.701	0.04	
4.298	1815426	1656169	0.912	4.91	
4.345	1823404	1711387	0.939	4.93	6 Aroclor 1248
4.376	2045689	1655175	0.809	5.53	
4.502	363345	330708	0.910	0.98	
4.537	458555	395353	0.862	1.24	
4.631	1158381	1042044	0.900	3.13	6 Aroclor 1248
4.673	177045	147796	0.835	0.47	
4.705	79861	55871	0.700	0.21	
4.765	133234	117819	0.884	0.36	
4.819	167079	126177	0.755	0.45	
4.853	210771	187656	0.890	0.57	
4.898	677548	626428	0.925	1.83	6 Aroclor 1248
4.933	615439	564545	0.917	1.66	
4.964	1724310	934349	0.542	4.66	6 Aroclor 1248
5.042	455720	375466	0.824	1.23	
5.124	621715	541153	0.870	1.68	6 Aroclor 1248
5.186	682102	600281	0.880	1.84	
5.246	1052745	895221	0.850	2.84	7 Aroclor 1254
5.297	856682	726943	0.849	2.31	
5.370	120781	109349	0.905	0.32	
5.393	141534	107198	0.757	0.38	
5.449	302257	264929	0.877	0.81	
5.493	661138	583703	0.883	1.78	7 Aroclor 1254
5.535	565318	486514	0.861	1.53	
5.566	111279	97533	0.876	0.30	
5.596	1274913	1126027	0.883	3.45	7 Aroclor 1254
5.662	87927	75068	0.854	0.23	
5.692	149014	120491	0.809	0.40	
5.761	419050	396023	0.945	1.13	
5.797	128186	99194	0.774	0.34	
5.829	276410	212037	0.767	0.74	
5.876	1520334	1110838	0.731	4.11	
5.971	171206	108598	0.634	0.46	
6.018	138168	107528	0.778	0.37	
6.078	294998	266563	0.904	0.79	
6.113	576928	516777	0.896	1.56	7 Aroclor 1254
6.140	847340	723515	0.854	2.29	
6.255	189371	114459	0.604	0.51	
6.316	67177	75221	1.120	0.18	
6.327	113785	89154	0.784	0.30	
6.387	1369631	1124317	0.821	3.70	7 Aroclor 1254
6.421	120855	107333	0.888	0.32	
6.461	70210	46945	0.669	0.19	
6.518	164158	129250	0.787	0.44	
6.596	457393	426623	0.933	1.23	
6.625	226988	208687	0.919	0.61	
6.646	89033	80570	0.905	0.24	
6.692	39906	29619	0.742	0.10	
6.750	33428	22859	0.684	0.09	
6.805	93479	75662	0.809	0.25	
6.847	125155	102792	0.821	0.33	
6.889	172621	141730	0.821	0.46	
6.927	104524	69095	0.661	0.28	
6.997	24088	20744	0.861	0.06	
7.031	101039	79138	0.783	0.27	
7.090	307364	266148	0.866	0.83	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	52940	42784	0.808	0.14	
7.338	176674	150678	0.853	0.47	8 Aroclor 1260
7.367	96204	65931	0.685	0.26	
7.419	55909	30020	0.537	0.15	
7.477	133660	125241	0.937	0.36	
7.528	219287	150974	0.688	0.59	8 Aroclor 1260
7.667	15445	14818	0.959	0.04	
7.743	31852	26703	0.838	0.08	
7.780	63019	54591	0.866	0.17	
7.814	58753	43371	0.738	0.15	
7.986	124634	95385	0.765	0.33	8 Aroclor 1260
8.052	23431	14912	0.636	0.06	
8.135	31277	26783	0.856	0.08	
8.360	118188	106085	0.898	0.31	
8.439	22148	16170	0.730	0.05	
8.657	2544521	2205907	0.867	7.36	$ 12 Decachlorobiphenyl
9.004	58441	33985	0.582	0.15	
9.254	27488	21632	0.787	0.07	
9.528	90918	47237	0.520	0.24	
9.587	10907	7249	0.665	0.02	
	36943754	31106333		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318085.D
Lab Smp Id: 40158013002 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013002 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: 85
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	9.975	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	2158997	0.01793	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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	1823403	0.76442	1900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1158381	0.27272	680	0.00- 20.00	63.53	BA
4.898	4.898	0.000	677547	0.33261	830	0.00- 20.00	37.16	BA
4.964	4.963	0.001	1724310	0.31480	790	0.00- 20.00	94.57	BA
5.124	5.123	0.001	621714	0.16433	410	0.00- 20.00	34.10	BA
Average of Peak Concentrations =					930			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1052745	0.18667	470	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	661138	0.14176	360	0.00- 20.00	62.80	BA
5.596	5.596	0.000	1274912	0.14890	370	0.00- 20.00	121.10	BA
6.112	6.113	-0.001	576927	0.10859	270	0.00- 20.00	54.80	BA
6.387	6.387	0.000	1369630	0.18708	470	0.00- 20.00	130.10	BA
Average of Peak Concentrations =					390			
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	307364	0.02612	65	0.00- 20.00	22.44	BA
7.337	7.338	-0.001	176673	0.03123	78	0.00- 20.00	12.90	BA
7.528	7.529	-0.001	219287	0.06414	160	0.00- 20.00	16.01	BA
7.985	7.987	-0.002	124633	0.03935	99	0.00- 20.00	9.10	BA
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2544521	0.01910	48			

QC Flag Legend

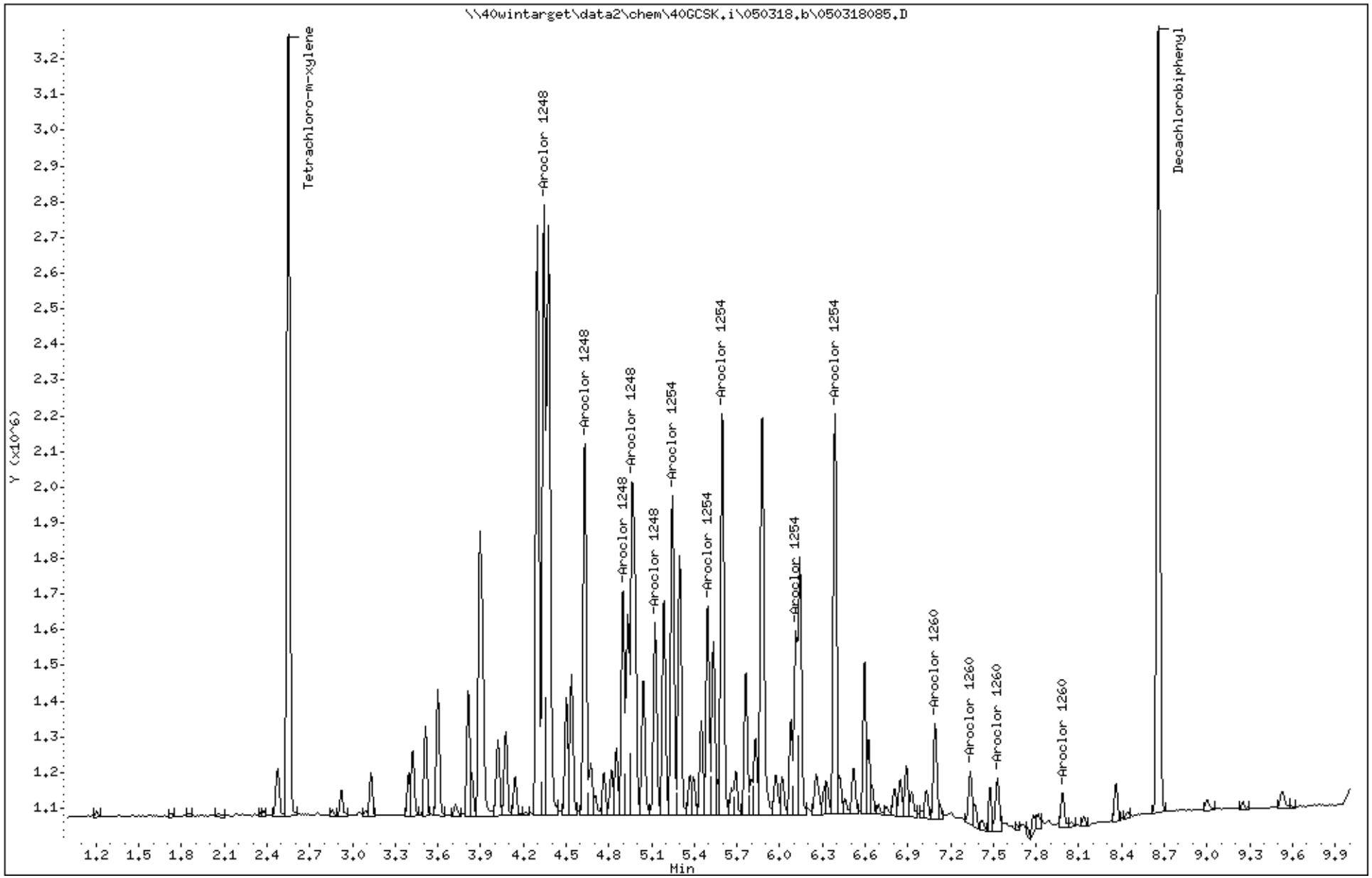
M - Compound response manually integrated.

Review Codes Legend

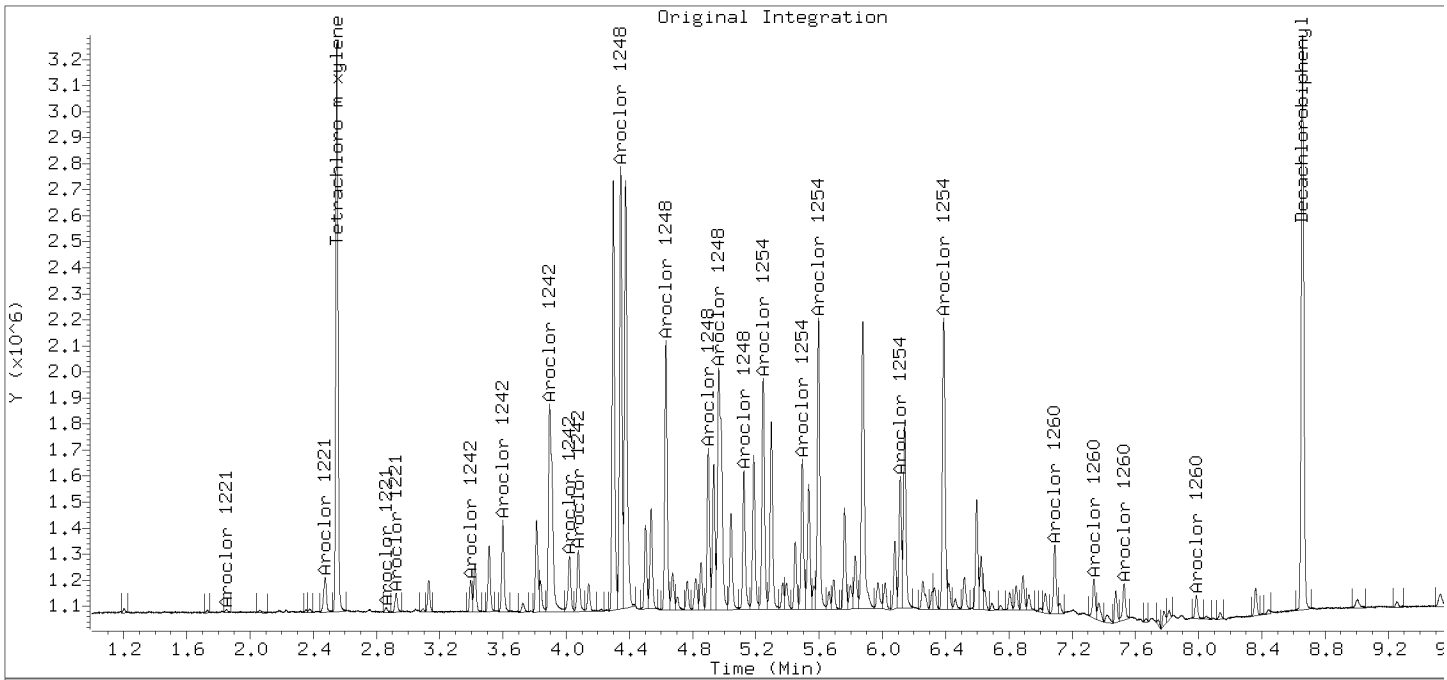
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

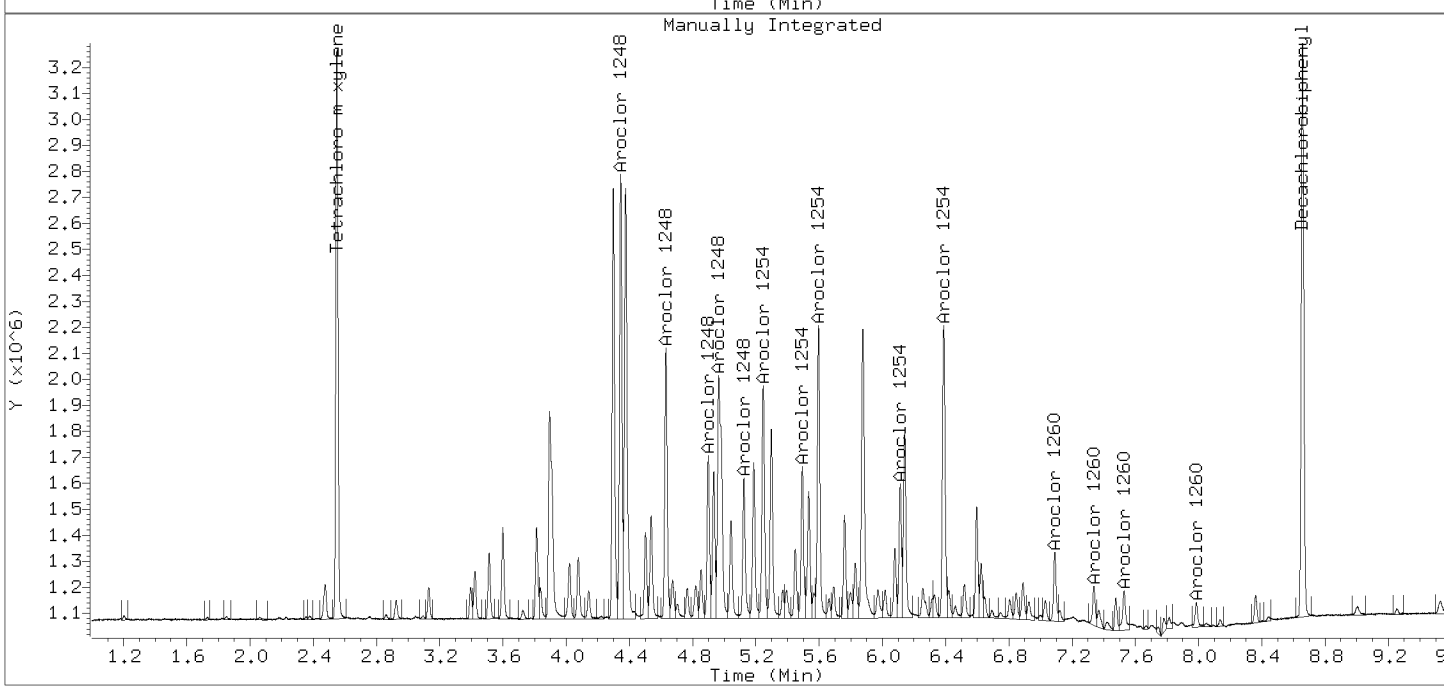
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318085.D
Date : 03-MAY-2018 21:08
Client ID: SW3-170829-01-PKSD-
Sample Info: 40158013002 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318085.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 21:08 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	126183	0	
Aroclor 1016	126183	0	
Aroclor 1016	126183	0	
Aroclor 1016	126183	0	
Aroclor 1016	126183	0	
Aroclor 1221	12903	0	
Aroclor 1221	12903	0	
Aroclor 1221	12903	0	
Aroclor 1221	12903	0	
Aroclor 1221	12903	0	
Aroclor 1232	83776	0	
Aroclor 1232	83776	0	
Aroclor 1232	83776	0	
Aroclor 1232	83776	0	

Aroclor 1232	83776	0	
Aroclor 1242	126183	0	
Aroclor 1242	126183	0	
Aroclor 1242	126183	0	
Aroclor 1242	126183	0	
Aroclor 1242	126183	0	
Aroclor 1248	1798030	1823403	BA
Aroclor 1248	1798030	1823403	BA
Aroclor 1248	1798030	1823403	BA
Aroclor 1248	1798030	1823403	BA
Aroclor 1248	1798030	1823403	BA
Aroclor 1254	1031418	1052745	BA
Aroclor 1254	1031418	1052745	BA
Aroclor 1254	1031418	1052745	BA
Aroclor 1254	1031418	1052745	BA
Aroclor 1254	1031418	1052745	BA
Aroclor 1260	1349986	0	BA
Aroclor 1260	1349986	0	BA
Aroclor 1260	1349986	0	BA
Aroclor 1260	1349986	0	BA
Aroclor 1260	1349986	0	BA
Tetrachloro-m-xylene	2158997	2158997	
Decachlorobiphenyl	2544521	2544521	

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SAMPLE NO.

SW3-170829-01-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.: 40158013
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158013003
Date Analyzed: 05/03/2018 21:24
Lab File ID: 050318.B\050318087.D
Initial wt/vol: 9.9779 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)	963	
11097-69-1	PCB-1254 (Aroclor 1254)	422	
11096-82-5	PCB-1260 (Aroclor 1260)	94.3	J
1336-36-3	PCB, Total	1480	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318087.D
Lab Smp Id: 40158013003 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:24
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013003 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: 87
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	9.978	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.848	15025	13550	0.902	0.03		
2.227	10097	10521	1.042	0.02		
2.378	14359	13170	0.917	0.03		
2.476	191928	155357	0.809	0.50		
2.549	2096908	2119494	1.011	5.56	$ 2 Tetrachloro-m-xylene	
2.862	19028	18764	0.986	0.05		
2.923	87045	78224	0.899	0.23		
3.094	13669	14334	1.049	0.03		
3.130	137646	137631	1.000	0.36		
3.395	130276	130734	1.004	0.34		
3.422	197368	179674	0.910	0.52		
3.512	291649	278953	0.956	0.77		
3.598	301518	282762	0.938	0.80		
3.725	37462	31558	0.842	0.09		
3.812	315087	303236	0.962	0.83		
3.837	135346	118678	0.877	0.35		
3.896	1238009	743210	0.600	3.28		
4.021	251638	204353	0.812	0.66		
4.077	248628	212889	0.856	0.65		
4.142	112479	96546	0.858	0.29		
4.298	1625056	1506720	0.927	4.31		
4.344	1704577	1596939	0.937	4.52	6 Aroclor 1248	BA
4.376	1962802	1581201	0.806	5.20		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.503	390097	367397	0.942	1.03	
4.537	474667	400901	0.845	1.25	
4.630	1162526	1078809	0.928	3.08	6 Aroclor 1248
4.673	149734	126154	0.843	0.39	
4.703	85045	62386	0.734	0.22	
4.766	114237	99358	0.870	0.30	
4.821	150030	112440	0.749	0.39	
4.853	243701	217021	0.891	0.64	
4.898	828418	774601	0.935	2.19	6 Aroclor 1248
4.933	702543	653672	0.930	1.86	
4.965	1861035	1111372	0.597	4.93	6 Aroclor 1248
5.043	390854	320125	0.819	1.03	
5.124	704461	602054	0.855	1.86	6 Aroclor 1248
5.186	651374	558099	0.857	1.72	
5.246	1142455	989380	0.866	3.03	7 Aroclor 1254
5.298	1006524	874949	0.869	2.67	
5.370	120446	111583	0.926	0.31	
5.394	145445	109362	0.752	0.38	
5.450	332691	296715	0.892	0.88	
5.493	691329	605978	0.877	1.83	7 Aroclor 1254
5.534	681814	598895	0.878	1.80	
5.568	78690	84016	1.068	0.20	
5.596	1304308	1131452	0.867	3.46	7 Aroclor 1254
5.660	83533	68389	0.819	0.22	
5.691	172521	137291	0.796	0.45	
5.761	364877	340650	0.934	0.96	
5.798	133272	102694	0.771	0.35	
5.828	298359	226030	0.758	0.79	
5.877	1778155	1299443	0.731	4.71	
5.974	175867	111745	0.635	0.46	
6.017	133987	101872	0.760	0.35	
6.079	298315	270366	0.906	0.79	
6.112	686663	611871	0.891	1.82	7 Aroclor 1254
6.141	1006299	857226	0.852	2.67	
6.255	195901	121111	0.618	0.51	
6.312	74048	81709	1.103	0.19	
6.329	126726	102541	0.809	0.33	
6.388	1540828	1257409	0.816	4.08	7 Aroclor 1254
6.420	140133	124197	0.886	0.37	
6.460	66261	48635	0.734	0.17	
6.518	154222	121904	0.790	0.40	
6.596	464129	422847	0.911	1.23	
6.625	372559	265129	0.712	0.98	
6.692	42626	39757	0.933	0.11	
6.745	24196	20395	0.843	0.06	
6.805	81935	69815	0.852	0.21	
6.846	125947	107629	0.855	0.33	
6.888	189414	164977	0.871	0.50	
6.926	97631	72232	0.740	0.25	
6.999	28236	18983	0.672	0.07	
7.032	107322	85362	0.795	0.28	
7.090	332709	284317	0.855	0.88	8 Aroclor 1260
7.122	59638	45336	0.760	0.15	
7.337	191681	166049	0.866	0.50	8 Aroclor 1260
7.367	109036	74961	0.687	0.28	
7.423	65329	33789	0.517	0.17	
7.476	126160	121767	0.965	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.508	11590	17116	1.477	0.03	
7.527	190143	144360	0.759	0.50	8 Aroclor 1260
7.573	30749	18379	0.598	0.08	
7.666	16468	14323	0.870	0.04	
7.747	29895	33784	1.130	0.07	
7.779	60910	56492	0.927	0.16	
7.813	73544	37212	0.506	0.19	
7.893	31930	17167	0.538	0.08	
7.940	2602	5137	1.974	0.00	
7.986	103587	87200	0.842	0.27	8 Aroclor 1260
8.136	34099	30297	0.889	0.09	
8.360	118114	104057	0.881	0.31	
8.657	2472608	2203488	0.891	7.08	$ 12 Decachlorobiphenyl
9.005	31457	19046	0.605	0.08	
9.254	22701	20646	0.909	0.06	
9.528	54559	34767	0.637	0.14	
	37683494	31937116		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318087.D
Lab Smp Id: 40158013003 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:24
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013003 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: 87
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	9.978	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	2096907	0.01741	44			

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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	1704577	0.71460	1800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1162525	0.27370	680	0.00- 20.00	68.20	BA
4.898	4.898	0.000	828418	0.40668	1000	0.00- 20.00	48.60	BA
4.965	4.963	0.002	1861034	0.33977	850	0.00- 20.00	109.18	BA
5.124	5.123	0.001	704460	0.18620	470	0.00- 20.00	41.33	BA
Average of Peak Concentrations =					960			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1142455	0.20258	510	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	691328	0.14823	370	0.00- 20.00	60.51	BA
5.596	5.596	0.000	1304308	0.15234	380	0.00- 20.00	114.17	BA
6.112	6.113	-0.001	686662	0.12924	320	0.00- 20.00	60.10	BA
6.388	6.387	0.001	1540827	0.21046	530	0.00- 20.00	134.87	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)	BA
7.089	7.090	-0.001	332708	0.02827	71	0.00- 20.00	21.59	BA
7.337	7.338	-0.001	191681	0.03389	85	0.00- 20.00	12.44	BA
7.527	7.529	-0.002	190142	0.05562	140	0.00- 20.00	12.34	BA
7.986	7.987	-0.001	103587	0.03271	82	0.00- 20.00	6.72	BA
Average of Peak Concentrations =					94			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	2472608	0.01856	46			

QC Flag Legend

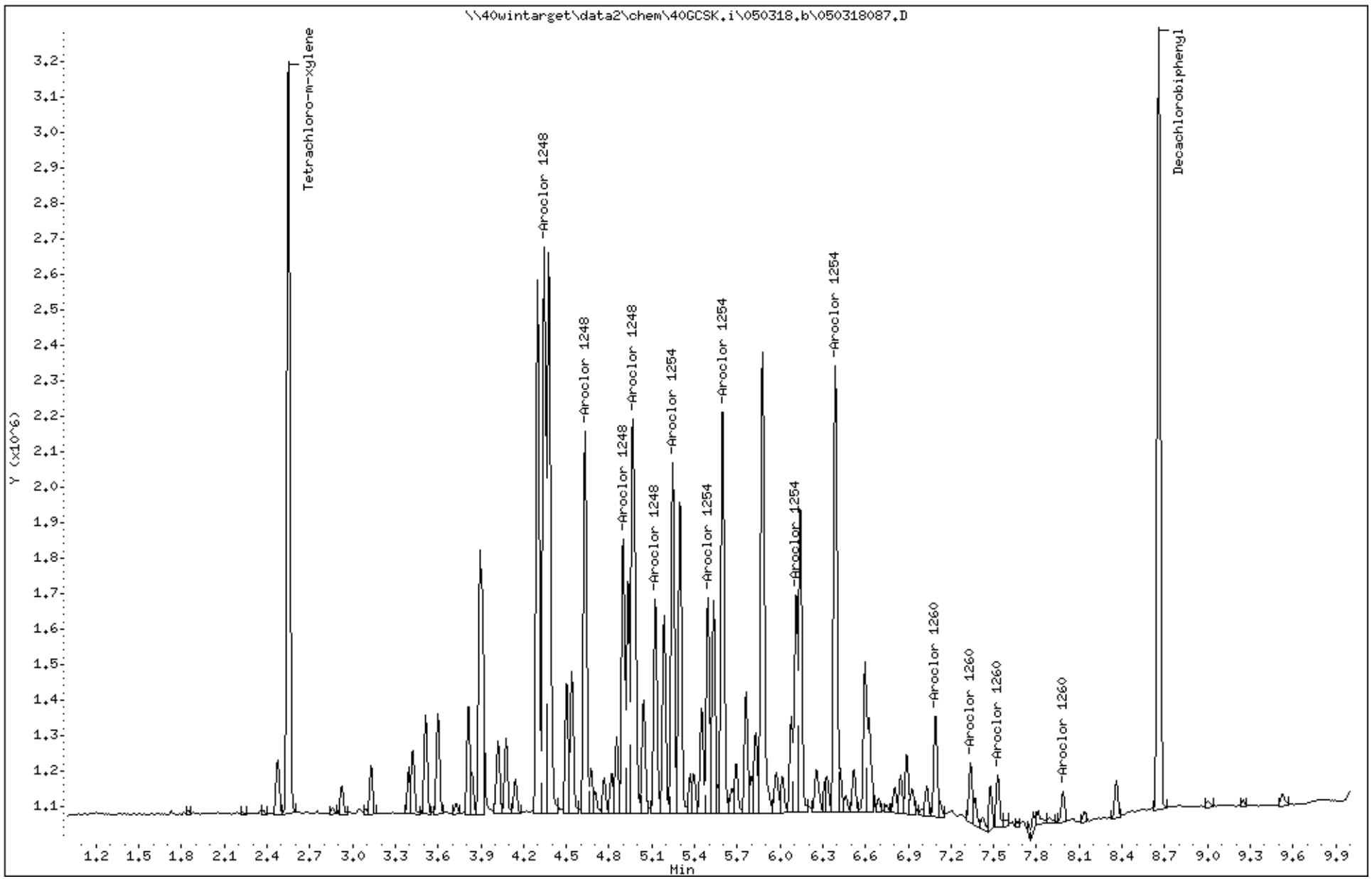
M - Compound response manually integrated.

Review Codes Legend

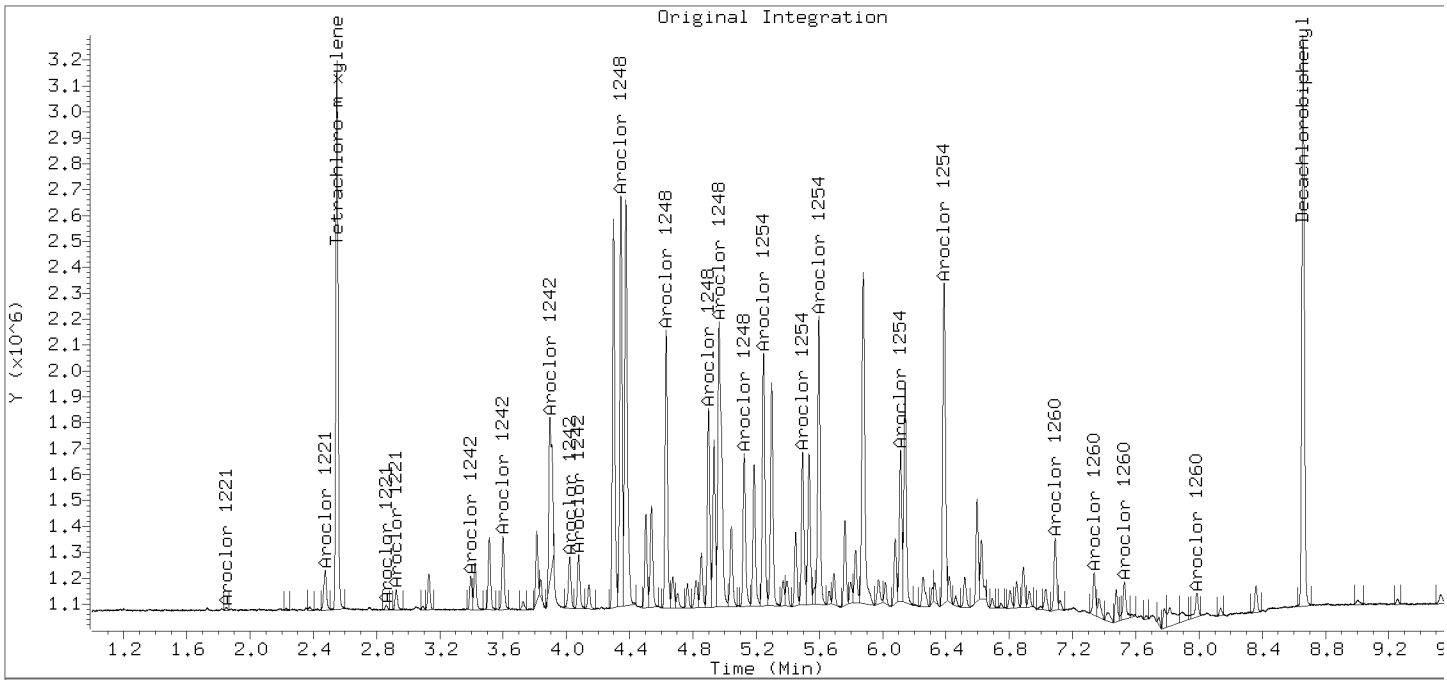
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

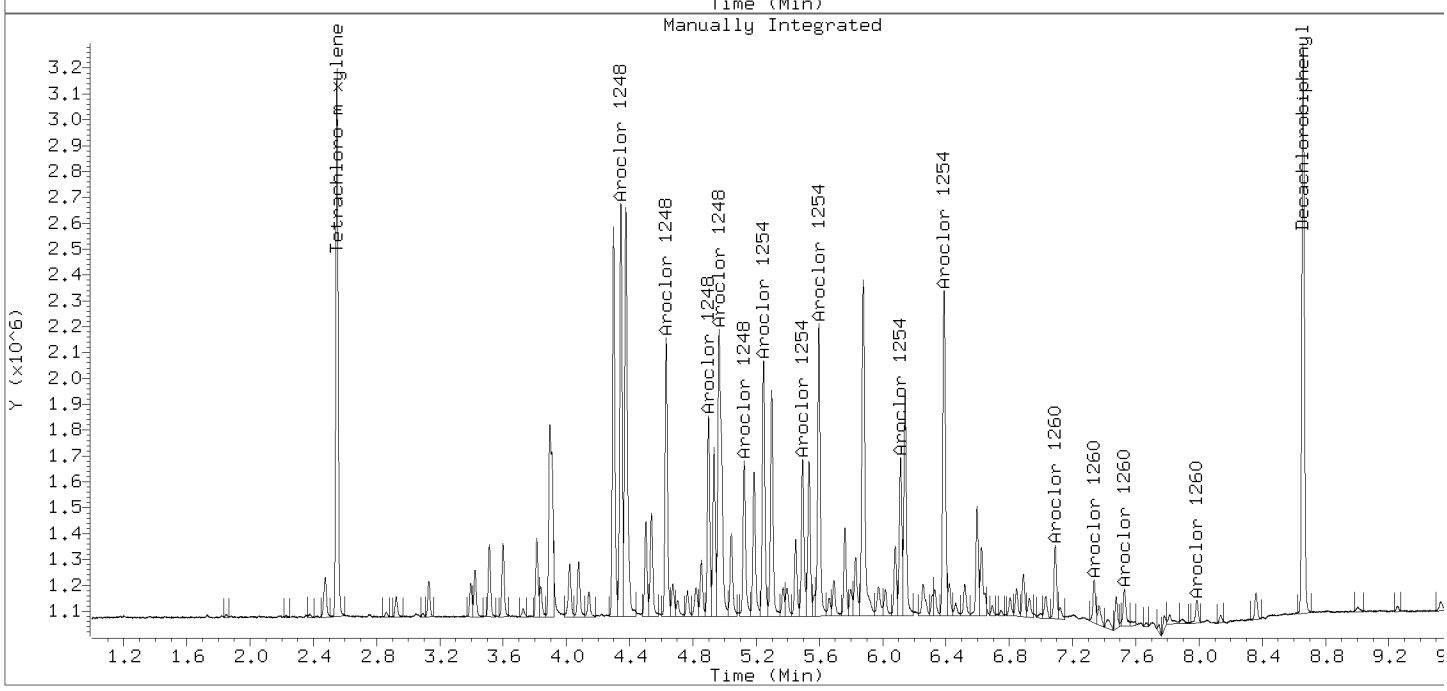
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318087.D
Date : 03-MAY-2018 21:24
Client ID: SW3-170829-01-PKSD-
Sample Info: 40158013003 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318087.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 21:24 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	130276	0	
Aroclor 1016	130276	0	
Aroclor 1016	130276	0	
Aroclor 1016	130276	0	
Aroclor 1016	130276	0	
Aroclor 1221	15025	0	
Aroclor 1221	15025	0	
Aroclor 1221	15025	0	
Aroclor 1221	15025	0	
Aroclor 1221	15025	0	
Aroclor 1232	87044	0	
Aroclor 1232	87044	0	
Aroclor 1232	87044	0	
Aroclor 1232	87044	0	

Aroclor 1232	87044	0	
Aroclor 1242	130276	0	
Aroclor 1242	130276	0	
Aroclor 1242	130276	0	
Aroclor 1242	130276	0	
Aroclor 1242	130276	0	
Aroclor 1248	1673595	1704577	BA
Aroclor 1248	1673595	1704577	BA
Aroclor 1248	1673595	1704577	BA
Aroclor 1248	1673595	1704577	BA
Aroclor 1248	1673595	1704577	BA
Aroclor 1254	1102792	1142455	BA
Aroclor 1254	1102792	1142455	BA
Aroclor 1254	1102792	1142455	BA
Aroclor 1254	1102792	1142455	BA
Aroclor 1254	1102792	1142455	BA
Aroclor 1260	1482198	0	BA
Aroclor 1260	1482198	0	BA
Aroclor 1260	1482198	0	BA
Aroclor 1260	1482198	0	BA
Aroclor 1260	1482198	0	BA
Tetrachloro-m-xylene	2096907	2096907	
Decachlorobiphenyl	2472608	2472608	

==========

SAMPLE NO.

SW3-170829-01-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.: 40158013
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158013004
Date Analyzed: 05/03/2018 21:40
Lab File ID: 050318.B\050318089.D
Initial wt/vol: 9.9733 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	974	
11097-69-1	PCB-1254 (Aroclor 1254)	410	
11096-82-5	PCB-1260 (Aroclor 1260)	85.9	J
1336-36-3	PCB, Total	1470	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318089.D
Lab Smp Id: 40158013004 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:40
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013004 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: 89
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	9.973	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	9954	9815	0.986	0.02		
1.730	12776	12191	0.954	0.03		
1.851	14919	14392	0.965	0.03		
2.231	16020	15084	0.942	0.04		
2.353	13360	14692	1.100	0.03		
2.379	22757	20854	0.916	0.05		
2.474	214355	165985	0.774	0.55		
2.550	2079204	2092209	1.006	5.42	$ 2 Tetrachloro-m-xylene	
2.861	30179	24225	0.803	0.07		
2.922	100055	88739	0.887	0.26		
3.047	28014	14726	0.526	0.07		
3.095	17513	15778	0.901	0.04		
3.129	166252	163550	0.984	0.43		
3.396	150937	147302	0.976	0.39		
3.423	215566	200721	0.931	0.56		
3.513	317572	292491	0.921	0.82		
3.599	344492	329234	0.956	0.89		
3.726	34150	30343	0.889	0.08		
3.813	351922	332066	0.944	0.91		
3.837	140676	128756	0.915	0.36		
3.895	1469562	787463	0.536	3.83		
4.021	277515	217821	0.785	0.72		
4.077	269049	229299	0.852	0.70		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.142	124047	110330	0.889	0.32	
4.224	13706	12896	0.941	0.03	
4.298	1707768	1570327	0.920	4.45	
4.344	1705762	1588800	0.931	4.45	6 Aroclor 1248
4.376	1906056	1525541	0.800	4.97	
4.502	441685	411001	0.931	1.15	
4.537	518249	456599	0.881	1.35	
4.631	1218471	1097896	0.901	3.18	6 Aroclor 1248
4.673	137678	117305	0.852	0.35	
4.702	73709	63746	0.865	0.19	
4.765	109942	96590	0.879	0.28	
4.819	146168	107464	0.735	0.38	
4.852	259295	224555	0.866	0.67	
4.899	780046	730291	0.936	2.03	6 Aroclor 1248
4.933	784199	736980	0.940	2.04	
4.964	1929237	1121209	0.581	5.03	6 Aroclor 1248
5.042	383571	327368	0.853	1.00	
5.124	777979	704111	0.905	2.03	6 Aroclor 1248
5.186	652405	545115	0.836	1.70	
5.246	1099224	952011	0.866	2.86	7 Aroclor 1254
5.297	893321	775051	0.868	2.33	
5.369	108505	100612	0.927	0.28	
5.394	154122	118582	0.769	0.40	
5.449	343738	307759	0.895	0.89	
5.493	716010	644573	0.900	1.86	7 Aroclor 1254
5.534	665599	576689	0.866	1.73	
5.567	91312	93299	1.022	0.23	
5.596	1358309	1162716	0.856	3.54	7 Aroclor 1254
5.662	69445	56545	0.814	0.18	
5.691	178084	148684	0.835	0.46	
5.761	354701	323337	0.912	0.92	
5.798	148985	108614	0.729	0.38	
5.828	254662	196779	0.773	0.66	
5.876	1617937	1215570	0.751	4.22	
5.973	164825	110813	0.672	0.43	
6.016	125727	93228	0.742	0.32	
6.079	260433	230389	0.885	0.67	
6.112	685232	599735	0.875	1.78	7 Aroclor 1254
6.141	839518	710371	0.846	2.19	
6.254	203121	118990	0.586	0.53	
6.315	64101	72541	1.132	0.16	
6.329	119407	94179	0.789	0.31	
6.387	1335739	1114421	0.834	3.48	7 Aroclor 1254
6.420	122444	111672	0.912	0.31	
6.460	59697	43981	0.737	0.15	
6.519	160455	121793	0.759	0.41	
6.596	363710	336976	0.926	0.94	
6.622	312936	221406	0.708	0.81	
6.691	33617	32501	0.967	0.08	
6.749	25553	21996	0.861	0.06	
6.806	104000	86742	0.834	0.27	
6.846	131168	110089	0.839	0.34	
6.888	167082	142293	0.852	0.43	
6.928	108666	68412	0.630	0.28	
6.996	24958	17843	0.715	0.06	
7.029	108510	86156	0.794	0.28	
7.090	287218	240213	0.836	0.74	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	46394	40426	0.871	0.12	
7.202	85646	37019	0.432	0.22	
7.337	164312	141172	0.859	0.42	8 Aroclor 1260
7.369	98028	65942	0.673	0.25	
7.425	73344	37767	0.515	0.19	
7.475	118408	110279	0.931	0.30	
7.529	183175	123204	0.673	0.47	8 Aroclor 1260
7.577	16975	20249	1.193	0.04	
7.591	30943	22734	0.735	0.08	
7.664	14812	13921	0.940	0.03	
7.701	26031	16640	0.639	0.06	
7.743	26596	26782	1.007	0.06	
7.782	59705	48281	0.809	0.15	
7.814	44010	40131	0.912	0.11	
7.837	88949	52216	0.587	0.23	
7.885	16008	19171	1.198	0.04	
7.895	30091	22915	0.762	0.07	
7.984	95392	69358	0.727	0.24	8 Aroclor 1260
8.049	20817	16260	0.781	0.05	
8.135	49007	38327	0.782	0.12	
8.361	90276	81125	0.899	0.23	
8.439	105917	66200	0.625	0.27	
8.656	2512877	2240307	0.892	7.14	$ 12 Decachlorobiphenyl
8.999	195070	114374	0.586	0.50	
9.255	21566	20735	0.961	0.05	
9.525	267530	142655	0.533	0.69	
	38310720	32091611		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318089.D
Lab Smp Id: 40158013004 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:40
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013004 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: 89
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	9.973	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	2079203	0.01726	43			

---

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	1705761	0.71510	1800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1218471	0.28687	720	0.00- 20.00	71.43	BA
4.898	4.898	0.000	780045	0.38293	960	0.00- 20.00	45.73	BA
4.964	4.963	0.001	1929236	0.35222	880	0.00- 20.00	113.10	BA
5.123	5.123	0.000	777978	0.20564	520	0.00- 20.00	45.61	BA
Average of Peak Concentrations =					970			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	1099224	0.19491	490	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	716009	0.15353	380	0.00- 20.00	65.14	BA
5.596	5.596	0.000	1358309	0.15864	400	0.00- 20.00	123.57	BA
6.112	6.113	-0.001	685232	0.12898	320	0.00- 20.00	62.34	BA
6.387	6.387	0.000	1335739	0.18245	460	0.00- 20.00	121.52	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	287217	0.02440	61	0.00- 20.00	21.50	BA
7.337	7.338	-0.001	164312	0.02905	73	0.00- 20.00	12.30	BA
7.528	7.529	-0.001	183174	0.05358	130	0.00- 20.00	13.71	BA
7.984	7.987	-0.003	95391	0.03012	76	0.00- 20.00	7.14	BA
Average of Peak Concentrations =					86			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2512877	0.01887	47			

QC Flag Legend

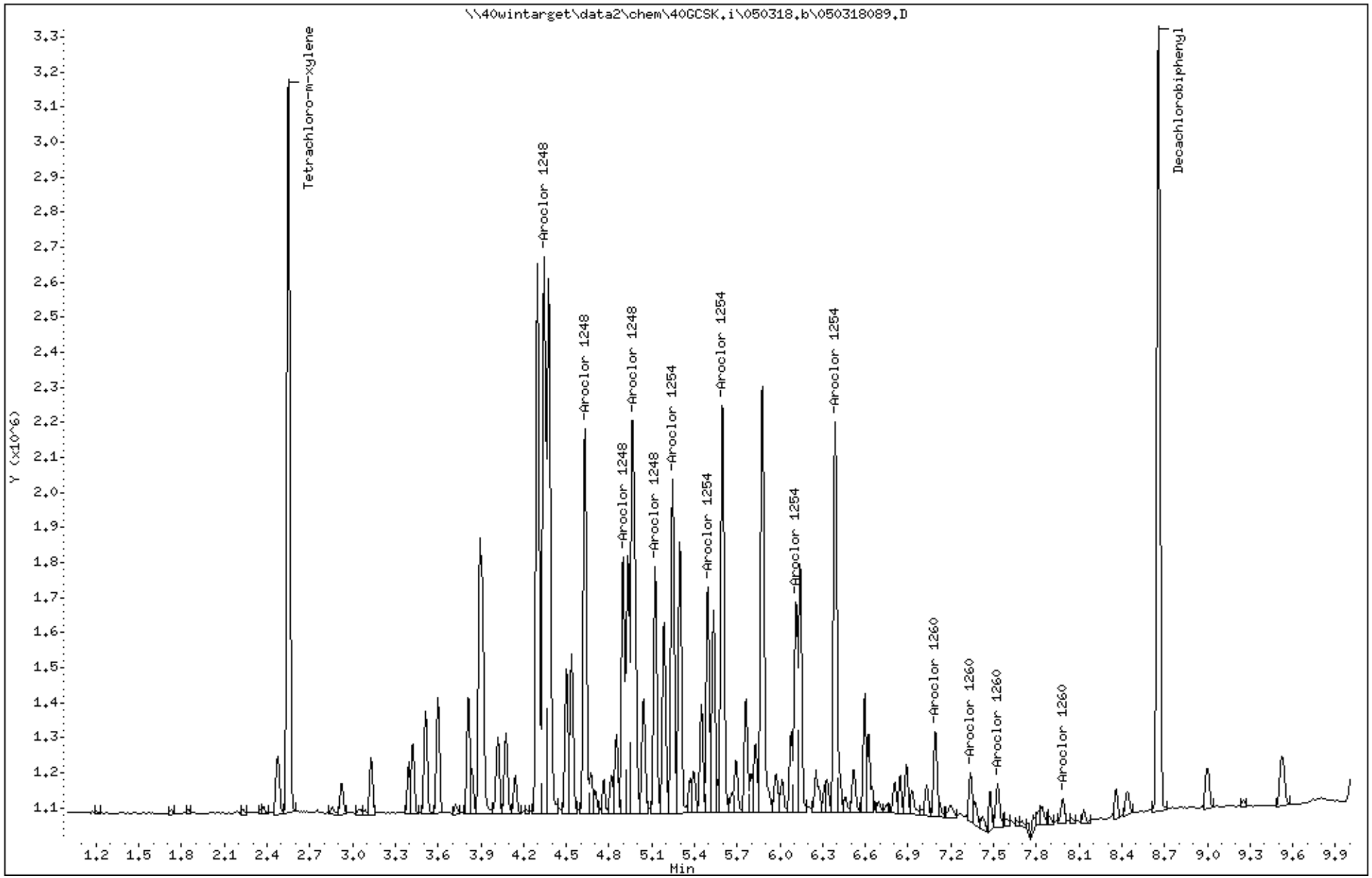
M - Compound response manually integrated.

Review Codes Legend

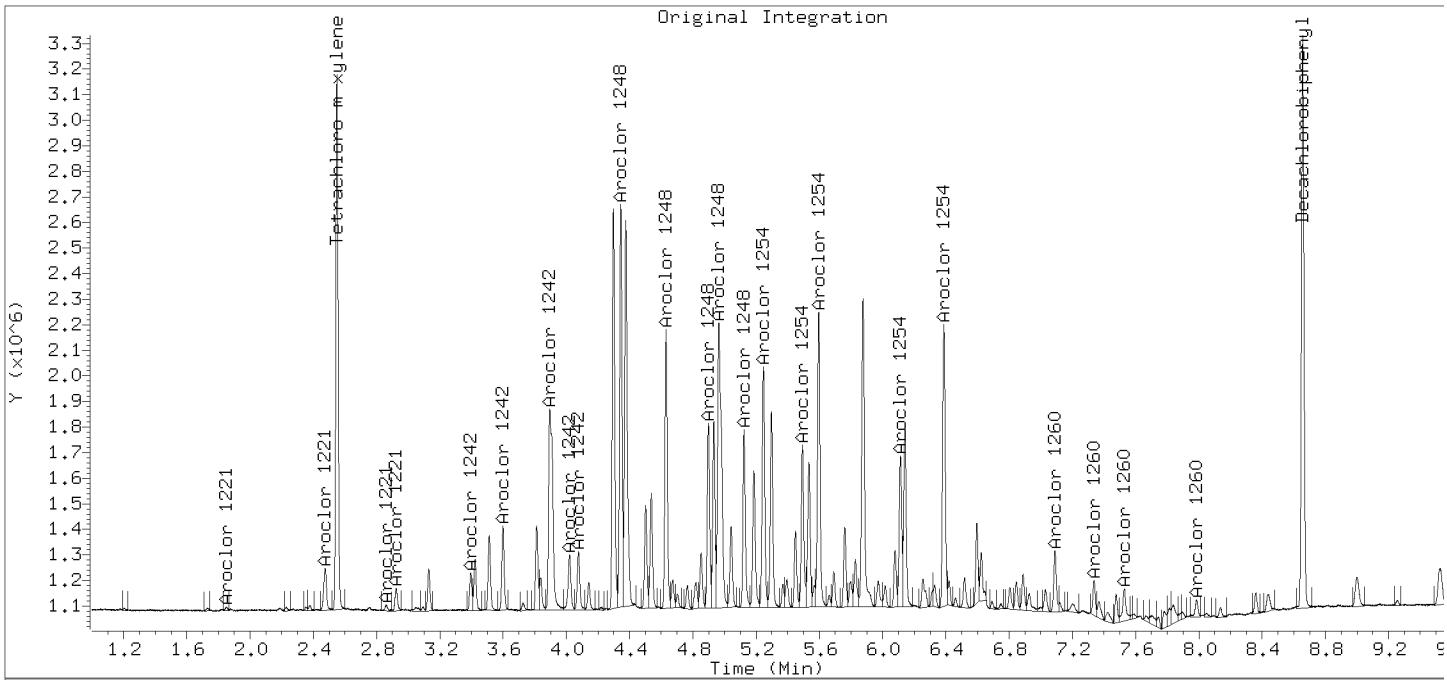
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

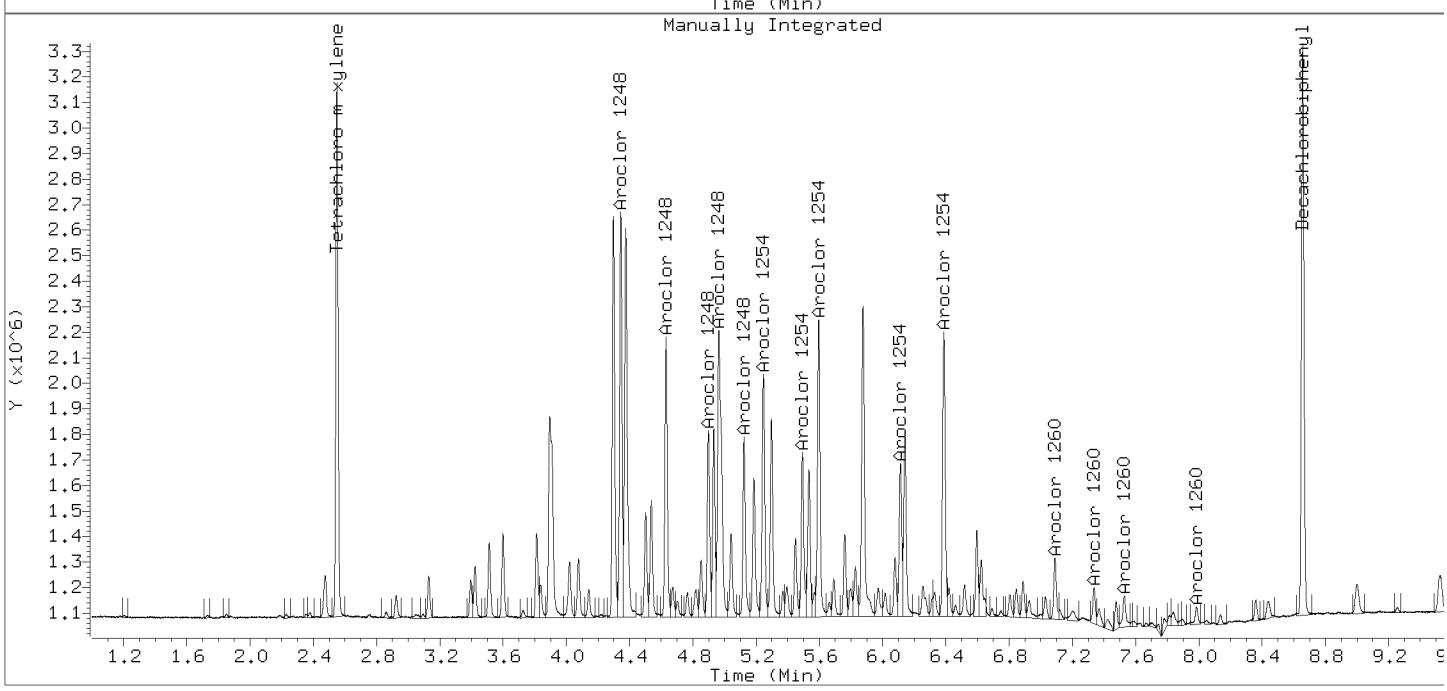
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318089.D
Date : 03-MAY-2018 21:40
Client ID: SW3-170829-01-PKSD-
Sample Info: 40158013004 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318089.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 21:40 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	150936	0	
Aroclor 1016	150936	0	
Aroclor 1016	150936	0	
Aroclor 1016	150936	0	
Aroclor 1016	150936	0	
Aroclor 1221	14918	0	
Aroclor 1221	14918	0	
Aroclor 1221	14918	0	
Aroclor 1221	14918	0	
Aroclor 1221	14918	0	
Aroclor 1232	100055	0	
Aroclor 1232	100055	0	
Aroclor 1232	100055	0	
Aroclor 1232	100055	0	

Aroclor 1232	100055	0	
Aroclor 1242	150936	0	
Aroclor 1242	150936	0	
Aroclor 1242	150936	0	
Aroclor 1242	150936	0	
Aroclor 1242	150936	0	
Aroclor 1248	1675599	1705761	BA
Aroclor 1248	1675599	1705761	BA
Aroclor 1248	1675599	1705761	BA
Aroclor 1248	1675599	1705761	BA
Aroclor 1248	1675599	1705761	BA
Aroclor 1254	1068668	1099224	BA
Aroclor 1254	1068668	1099224	BA
Aroclor 1254	1068668	1099224	BA
Aroclor 1254	1068668	1099224	BA
Aroclor 1254	1068668	1099224	BA
Aroclor 1260	1298373	0	BA
Aroclor 1260	1298373	0	BA
Aroclor 1260	1298373	0	BA
Aroclor 1260	1298373	0	BA
Aroclor 1260	1298373	0	BA
Tetrachloro-m-xylene	2079203	2079203	
Decachlorobiphenyl	2512877	2512877	

==========

SAMPLE NO.

SW3-170829-01-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.: 40158013
Date Extracted: 04/27/2018 10:44
Lab Sample ID: 40158013005
Date Analyzed: 05/03/2018 21:56
Lab File ID: 050318.B\050318091.D
Initial wt/vol: 8.9822 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)	<12.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<12.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<12.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<12.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	252	
11097-69-1	PCB-1254 (Aroclor 1254)	104	
11096-82-5	PCB-1260 (Aroclor 1260)	20.4	J
1336-36-3	PCB, Total	376	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318091.D
Lab Smp Id: 40158013005 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013005,
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: 91
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	8.982	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.014	10613	12307	1.160	0.01		
1.040	15688	10295	0.656	0.02		
1.081	21370	15841	0.741	0.03		
1.117	15239	12244	0.803	0.02		
1.160	11644	14393	1.236	0.01		
1.181	45244	42606	0.942	0.07		
1.209	32276	32491	1.007	0.05		
1.233	41273	28264	0.685	0.06		
1.273	14713	11765	0.800	0.02		
1.313	26767	14371	0.537	0.04		
1.416	10723	8719	0.813	0.01		
1.462	15297	15156	0.991	0.02		
1.534	13456	11101	0.825	0.02		
1.578	15231	10313	0.677	0.02		
1.730	40344	36098	0.895	0.06		
1.822	73128	75558	1.033	0.11		
1.880	9695	9710	1.002	0.01		
2.001	14893	13192	0.886	0.02		
2.025	11809	11280	0.955	0.01		
2.064	11514	10003	0.869	0.01		
2.119	21780	18315	0.841	0.03		
2.186	46678	33620	0.720	0.07		
2.230	50136	58987	1.177	0.08		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.263	18645	14165	0.760	0.02	
2.315	16744	15340	0.916	0.02	
2.356	52915	54364	1.027	0.08	
2.378	78346	82832	1.057	0.12	
2.417	20024	19392	0.968	0.03	
2.475	118175	87406	0.740	0.19	
2.550	11799764	12202940	1.034	18.97	$ 2 Tetrachloro-m-xyle
2.674	11173	7434	0.665	0.01	
2.709	10183	8519	0.837	0.01	
2.858	38829	35828	0.923	0.06	
2.924	86005	75513	0.878	0.13	
3.049	38783	23078	0.595	0.06	
3.093	45752	44731	0.978	0.07	
3.130	71779	66607	0.928	0.11	
3.235	15056	12433	0.826	0.02	
3.396	177146	169583	0.957	0.28	
3.423	177547	160746	0.905	0.28	
3.513	167776	154774	0.923	0.26	
3.598	124658	102830	0.825	0.20	
3.727	27414	24621	0.898	0.04	
3.813	206682	204199	0.988	0.33	
3.839	150643	131291	0.872	0.24	
3.909	1898066	1273570	0.671	3.05	
4.019	265950	159366	0.599	0.42	
4.078	268278	230433	0.859	0.43	
4.141	112171	85205	0.760	0.18	
4.222	20504	15242	0.743	0.03	
4.298	1465430	1330023	0.908	2.35	
4.345	1513136	1410262	0.932	2.43	6 Aroclor 1248
4.376	1755300	1401729	0.799	2.82	
4.502	555384	528105	0.951	0.89	
4.538	525511	465259	0.885	0.84	
4.580	53039	49732	0.938	0.08	
4.600	87901	83840	0.954	0.14	
4.631	1214271	1092395	0.900	1.95	6 Aroclor 1248
4.672	132128	108964	0.825	0.21	
4.703	125313	95824	0.765	0.20	
4.765	107674	81445	0.756	0.17	
4.819	125794	87240	0.694	0.20	
4.852	391845	332848	0.849	0.63	
4.898	1355191	1290433	0.952	2.17	6 Aroclor 1248
4.933	814432	764228	0.938	1.30	
4.964	2666057	1842735	0.691	4.28	6 Aroclor 1248
5.042	346959	280265	0.808	0.55	
5.123	709202	614366	0.866	1.14	6 Aroclor 1248
5.186	721610	578674	0.802	1.16	
5.247	1484472	1286954	0.867	2.38	7 Aroclor 1254
5.298	1414350	1222930	0.865	2.27	
5.369	144694	131959	0.912	0.23	
5.395	182322	143243	0.786	0.29	
5.449	414455	358958	0.866	0.66	
5.493	644510	587362	0.911	1.03	7 Aroclor 1254
5.535	946192	834940	0.882	1.52	
5.572	64912	78620	1.211	0.10	
5.596	1532685	1309139	0.854	2.46	7 Aroclor 1254
5.662	71455	62305	0.872	0.11	
5.691	171534	134095	0.782	0.27	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.761	340633	306775	0.901	0.54	
5.796	114509	91163	0.796	0.18	
5.828	317250	234532	0.739	0.51	
5.877	2094092	1731056	0.827	3.36	
5.920	198248	136838	0.690	0.31	
5.974	181663	110026	0.606	0.29	
6.017	107805	90111	0.836	0.17	
6.079	319779	289876	0.906	0.51	
6.112	737592	655260	0.888	1.18	7 Aroclor 1254
6.142	1227976	1057577	0.861	1.97	
6.254	193444	121641	0.629	0.31	
6.316	75135	86366	1.149	0.12	
6.331	141914	117029	0.825	0.22	
6.387	1597356	1322117	0.828	2.56	7 Aroclor 1254
6.421	131691	121962	0.926	0.21	
6.459	53367	40136	0.752	0.08	
6.519	117256	94050	0.802	0.18	
6.597	378068	359013	0.950	0.60	
6.624	400928	289667	0.722	0.64	
6.696	59285	40808	0.688	0.09	
6.748	65620	37823	0.576	0.10	
6.775	17492	27248	1.558	0.02	
6.805	147314	90248	0.613	0.23	
6.848	175874	122243	0.695	0.28	
6.888	253089	178801	0.706	0.40	
6.926	158365	86769	0.548	0.25	
6.992	62139	36537	0.588	0.09	
7.029	171670	104622	0.609	0.27	
7.091	350939	281048	0.801	0.56	8 Aroclor 1260
7.120	72653	59425	0.818	0.11	
7.175	62420	41518	0.665	0.10	
7.210	96470	47233	0.490	0.15	
7.265	61318	24777	0.404	0.09	
7.338	190728	155326	0.814	0.30	8 Aroclor 1260
7.368	133792	82929	0.620	0.21	
7.423	97000	52915	0.546	0.15	
7.477	97422	93980	0.965	0.15	
7.528	182218	115529	0.634	0.29	8 Aroclor 1260
7.624	27853	17814	0.640	0.04	
7.667	25832	21748	0.842	0.04	
7.693	5340	11841	2.218	0.00	
7.707	44250	26299	0.594	0.07	
7.747	38876	40746	1.048	0.06	
7.785	54197	43943	0.811	0.08	
7.816	78761	53313	0.677	0.12	
7.892	40541	20832	0.514	0.06	
7.961	49608	31516	0.635	0.07	
7.987	93745	69082	0.737	0.15	8 Aroclor 1260
8.051	22330	13257	0.594	0.03	
8.138	40872	30304	0.741	0.06	
8.360	133687	122113	0.913	0.21	
8.596	22420	13975	0.623	0.03	
8.629	13498	17421	1.291	0.02	
8.657	11864175	10544412	0.889	19.74	$ 12 Decachlorobiphenyl
9.001	29918	16631	0.556	0.04	
9.256	19026	17147	0.901	0.03	
9.298	9901	9288	0.938	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.527	40640	25964	0.639	0.06	
9.568	19511	18325	0.939	0.03	
	62185767	54658888		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318091.D
Lab Smp Id: 40158013005 Client Smp ID: SW3-170829-01-PKSD-
Inj Date : 03-MAY-2018 21:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013005,
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: 91
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	8.982	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	11799764	0.09797	54			

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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	1513136	0.63435	350	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1214271	0.28588	160	0.00- 20.00	80.25	BA
4.897	4.898	-0.001	1355191	0.66527	370	0.00- 20.00	89.56	BA
4.963	4.963	0.000	2666056	0.48674	270	0.00- 20.00	176.19	BA
5.123	5.123	0.000	709202	0.18746	100	0.00- 20.00	46.87	BA
Average of Peak Concentrations =					250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1484472	0.26322	150	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	644509	0.13820	77	0.00- 20.00	43.42	CO
5.595	5.596	-0.001	1532684	0.17901	100	0.00- 20.00	103.25	CO
6.112	6.113	-0.001	737592	0.13883	77	0.00- 20.00	49.69	CO
6.386	6.387	-0.001	1597356	0.21819	120	0.00- 20.00	107.60	CO
Average of Peak Concentrations =					100			
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	350938	0.02982	16	0.00- 20.00	26.45	CO
7.337	7.338	-0.001	190727	0.03372	19	0.00- 20.00	11.94	CO
7.527	7.529	-0.002	182218	0.05330	30	0.00- 20.00	11.41	CO
7.986	7.987	-0.001	93744	0.02960	16	0.00- 20.00	5.87	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	11864174	0.08908	50			

QC Flag Legend

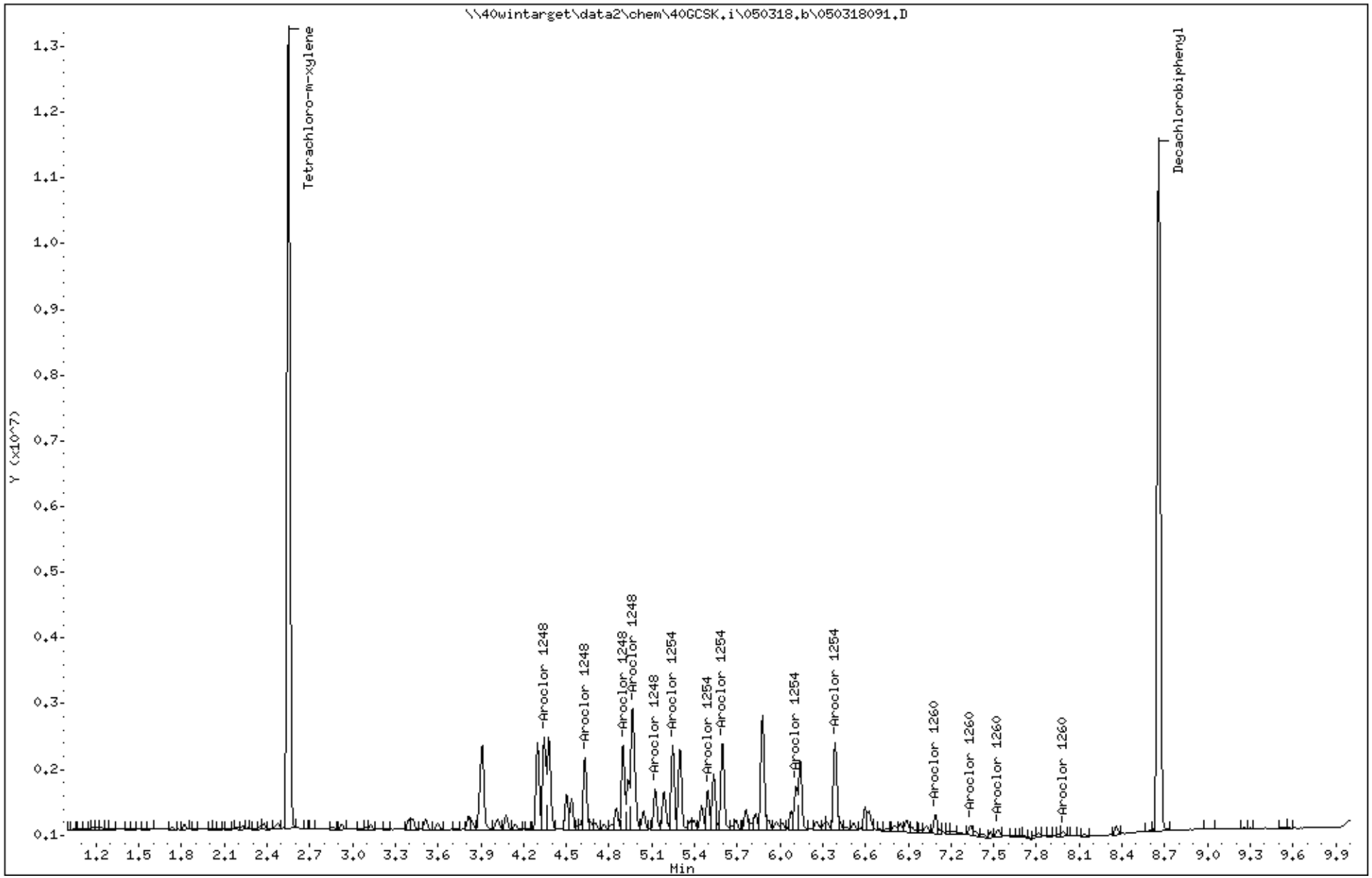
M - Compound response manually integrated.

Review Codes Legend

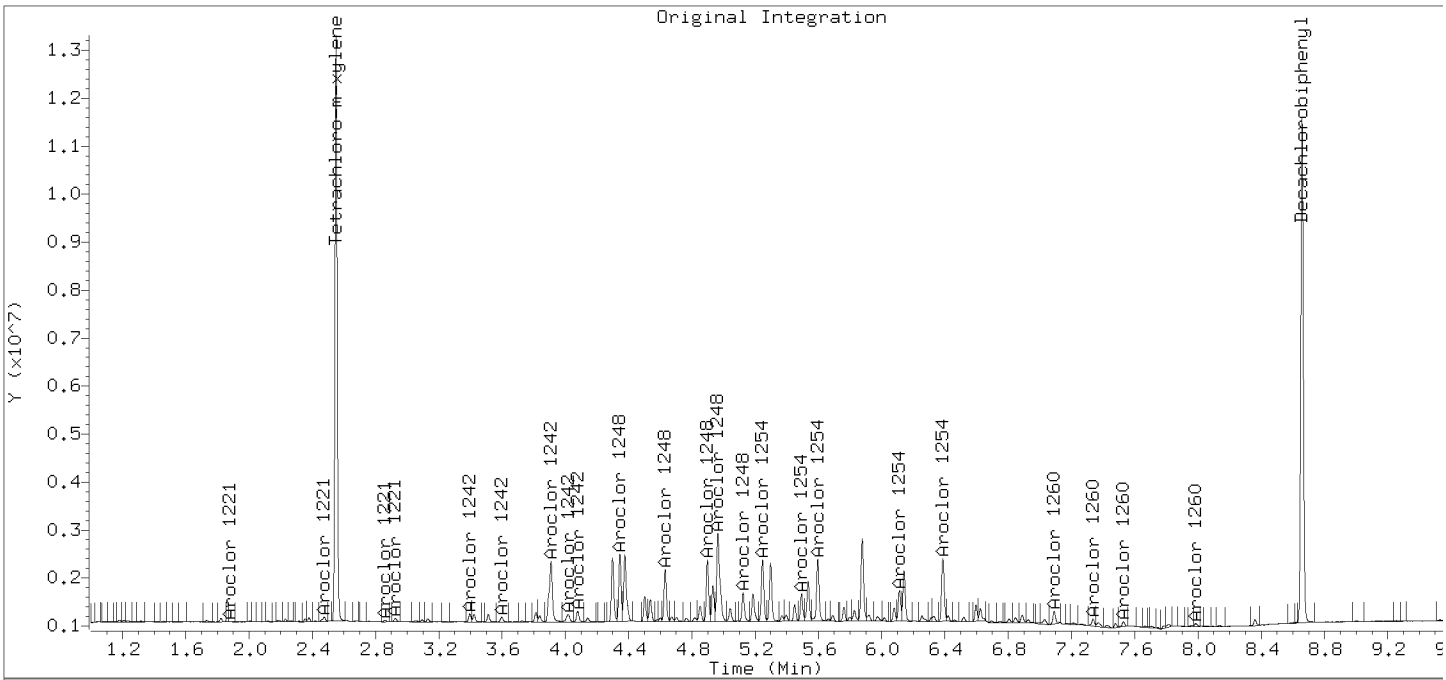
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

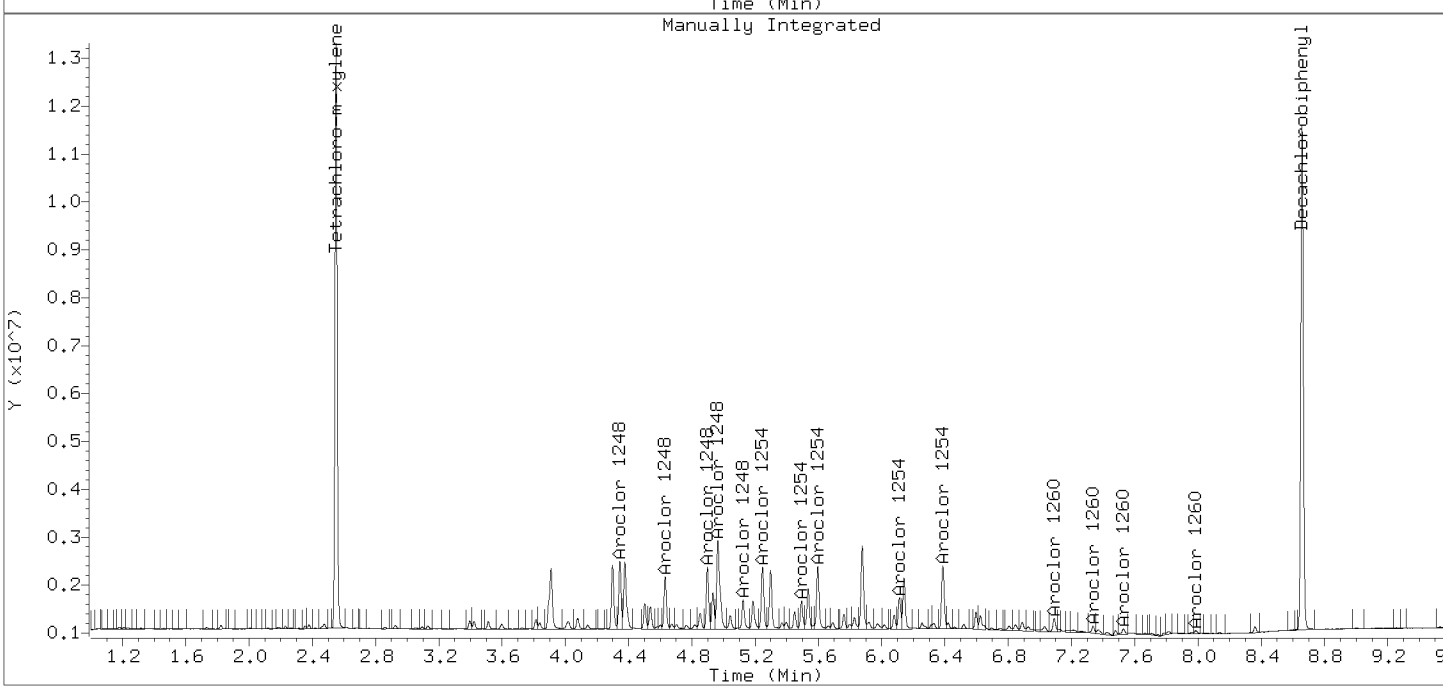
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318091.D
Date : 03-MAY-2018 21:56
Client ID: SW3-170829-01-PKSD-
Sample Info: 40158013005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318091.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-MAY-2018 21:56 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	177145	0	
Aroclor 1016	177145	0	
Aroclor 1016	177145	0	
Aroclor 1016	177145	0	
Aroclor 1016	177145	0	
Aroclor 1221	9695	0	
Aroclor 1221	9695	0	
Aroclor 1221	9695	0	
Aroclor 1221	9695	0	
Aroclor 1221	9695	0	
Aroclor 1232	86005	0	
Aroclor 1232	86005	0	
Aroclor 1232	86005	0	
Aroclor 1232	86005	0	

Aroclor 1232	86005	0	
Aroclor 1242	177145	0	
Aroclor 1242	177145	0	
Aroclor 1242	177145	0	
Aroclor 1242	177145	0	
Aroclor 1242	177145	0	
Aroclor 1248	1482388	1513136	BA
Aroclor 1248	1482388	1513136	BA
Aroclor 1248	1482388	1513136	BA
Aroclor 1248	1482388	1513136	BA
Aroclor 1248	1482388	1513136	BA
Aroclor 1254	1439692	1484472	CO
Aroclor 1254	1439692	1484472	CO
Aroclor 1254	1439692	1484472	CO
Aroclor 1254	1439692	1484472	CO
Aroclor 1254	1439692	1484472	CO
Aroclor 1260	1569791	0	CO
Aroclor 1260	1569791	0	CO
Aroclor 1260	1569791	0	CO
Aroclor 1260	1569791	0	CO
Aroclor 1260	1569791	0	CO
Tetrachloro-m-xylene	11799764	11799764	
Decachlorobiphenyl	11864174	11864174	

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SAMPLE NO.

SW2-170829-01-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.: 40158013
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158013006
Date Analyzed: 05/08/2018 06:29
Lab File ID: 050718.B\050718066.D
Initial wt/vol: 7.8655 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)	<145	U
11104-28-2	PCB-1221 (Aroclor 1221)	<145	U
11141-16-5	PCB-1232 (Aroclor 1232)	<145	U
53469-21-9	PCB-1242 (Aroclor 1242)	<145	U
12672-29-6	PCB-1248 (Aroclor 1248)	1940	
11097-69-1	PCB-1254 (Aroclor 1254)	915	
11096-82-5	PCB-1260 (Aroclor 1260)	165	J
1336-36-3	PCB, Total	3020	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718066.D
Lab Smp Id: 40158013006 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 06:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013006 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 66
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	7.865	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	13038	12272	0.941	0.04		
2.475	65007	52507	0.808	0.23		
2.550	1199422	1241600	1.035	4.28	$ 2 Tetrachloro-m-xylene	
2.858	12429	11928	0.960	0.04		
2.922	33410	27089	0.811	0.11		
3.131	63824	60051	0.941	0.22		
3.395	64091	62929	0.982	0.22		
3.423	109841	106536	0.970	0.39		
3.513	111238	106636	0.959	0.39		
3.599	210247	193613	0.921	0.75		
3.725	31400	23608	0.752	0.11		
3.813	174667	167144	0.957	0.62		
3.837	77012	68899	0.895	0.27		
3.895	673759	397609	0.590	2.40		
4.021	176303	148487	0.842	0.62		
4.075	212447	189044	0.890	0.75		
4.142	103036	92941	0.902	0.36		
4.298	1402726	1294045	0.923	5.00		
4.344	1470443	1389749	0.945	5.25	6 Aroclor 1248	BA
4.376	1510555	1233925	0.817	5.39		
4.502	334319	313987	0.939	1.19		
4.537	415090	366125	0.882	1.48		
4.630	989586	918557	0.928	3.53	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.673	98619	86779	0.880	0.35	
4.702	49087	41006	0.835	0.17	
4.764	96096	85134	0.886	0.34	
4.821	116225	83766	0.721	0.41	
4.853	161119	144485	0.897	0.57	
4.898	531240	510303	0.961	1.89	6 Aroclor 1248
4.932	614111	581137	0.946	2.19	
4.964	1523877	817185	0.536	5.89	6 Aroclor 1248
5.042	374378	325603	0.870	1.33	
5.123	511404	440613	0.862	1.82	6 Aroclor 1248
5.186	584396	518500	0.887	2.08	
5.246	997731	863559	0.866	3.56	7 Aroclor 1254
5.297	778847	690872	0.887	2.78	
5.368	92008	90186	0.980	0.32	
5.392	105537	79077	0.749	0.37	
5.448	311246	287535	0.924	1.11	
5.492	635293	575660	0.906	2.26	7 Aroclor 1254
5.533	476057	408621	0.858	1.70	
5.565	90732	86268	0.951	0.32	
5.596	1301147	1162508	0.893	4.64	7 Aroclor 1254
5.662	51636	45189	0.875	0.18	
5.691	164135	138810	0.846	0.58	
5.761	290390	268013	0.923	1.03	
5.796	124255	96566	0.777	0.44	
5.829	203759	147141	0.722	0.72	
5.877	1312162	1012443	0.772	4.68	
5.971	130348	95114	0.730	0.46	
6.016	95465	69508	0.728	0.34	
6.078	207403	190021	0.916	0.74	
6.112	535173	467569	0.874	1.91	7 Aroclor 1254
6.141	746679	648900	0.869	2.66	
6.254	167372	114198	0.682	0.59	
6.312	58803	69053	1.174	0.21	
6.329	103861	81954	0.789	0.37	
6.386	1127069	932298	0.827	4.02	7 Aroclor 1254
6.420	114072	101589	0.891	0.40	
6.463	55518	42355	0.763	0.19	
6.517	100068	80064	0.800	0.35	
6.596	261967	234950	0.897	0.93	
6.623	289820	217148	0.749	1.03	
6.689	36657	30518	0.833	0.13	
6.746	19136	17345	0.906	0.06	
6.805	83332	68458	0.822	0.29	
6.844	88451	77946	0.881	0.31	
6.887	136433	120667	0.884	0.48	
6.926	74332	53061	0.714	0.26	
7.029	59299	47206	0.796	0.21	
7.089	229435	201825	0.880	0.81	8 Aroclor 1260
7.122	31954	27355	0.856	0.11	
7.336	136919	122866	0.897	0.48	8 Aroclor 1260
7.366	60929	44924	0.737	0.21	
7.420	20893	16016	0.767	0.07	
7.474	106685	94712	0.888	0.38	
7.526	133077	101692	0.764	0.47	8 Aroclor 1260
7.778	31737	28639	0.902	0.11	
7.812	46697	27474	0.588	0.16	
7.985	66450	57454	0.865	0.23	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.135	19469	14085	0.723	0.06	
8.359	76900	71293	0.927	0.27	
8.438	17620	13108	0.744	0.06	
8.656	1399451	1245186	0.890	4.99	$ 12 Decachlorobiphenyl
9.000	31415	21552	0.686	0.11	
9.253	15001	15552	1.037	0.05	
9.526	33936	23627	0.696	0.12	
	27999203	23953522		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718066.D
Lab Smp Id: 40158013006 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 06:29
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013006 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 66
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	7.865	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	1199421	0.00996	63			
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	1470442	0.61645	3900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	989586	0.23298	1500	0.00- 20.00	67.30	BA
4.898	4.898	0.000	531240	0.26079	1600	0.00- 20.00	36.13	BA
4.964	4.963	0.001	1523877	0.27821	1800	0.00- 20.00	103.63	BA
5.122	5.123	-0.001	511404	0.13518	860	0.00- 20.00	34.78	BA
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	997730	0.17691	1100	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	635292	0.13622	860	0.00- 20.00	63.67	BA
5.595	5.596	-0.001	1301147	0.15197	970	0.00- 20.00	130.41	BA
6.111	6.113	-0.002	535173	0.10073	640	0.00- 20.00	53.64	BA
6.386	6.387	-0.001	1127068	0.15395	980	0.00- 20.00	112.96	BA
Average of Peak Concentrations =					920			
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	229434	0.01949	120	0.00- 20.00	20.36	BA
7.336	7.338	-0.002	136919	0.02421	150	0.00- 20.00	12.15	BA
7.526	7.529	-0.003	133076	0.03892	250	0.00- 20.00	11.81	BA
7.984	7.987	-0.003	66450	0.02098	130	0.00- 20.00	5.90	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	1399451	0.01051	67			

QC Flag Legend

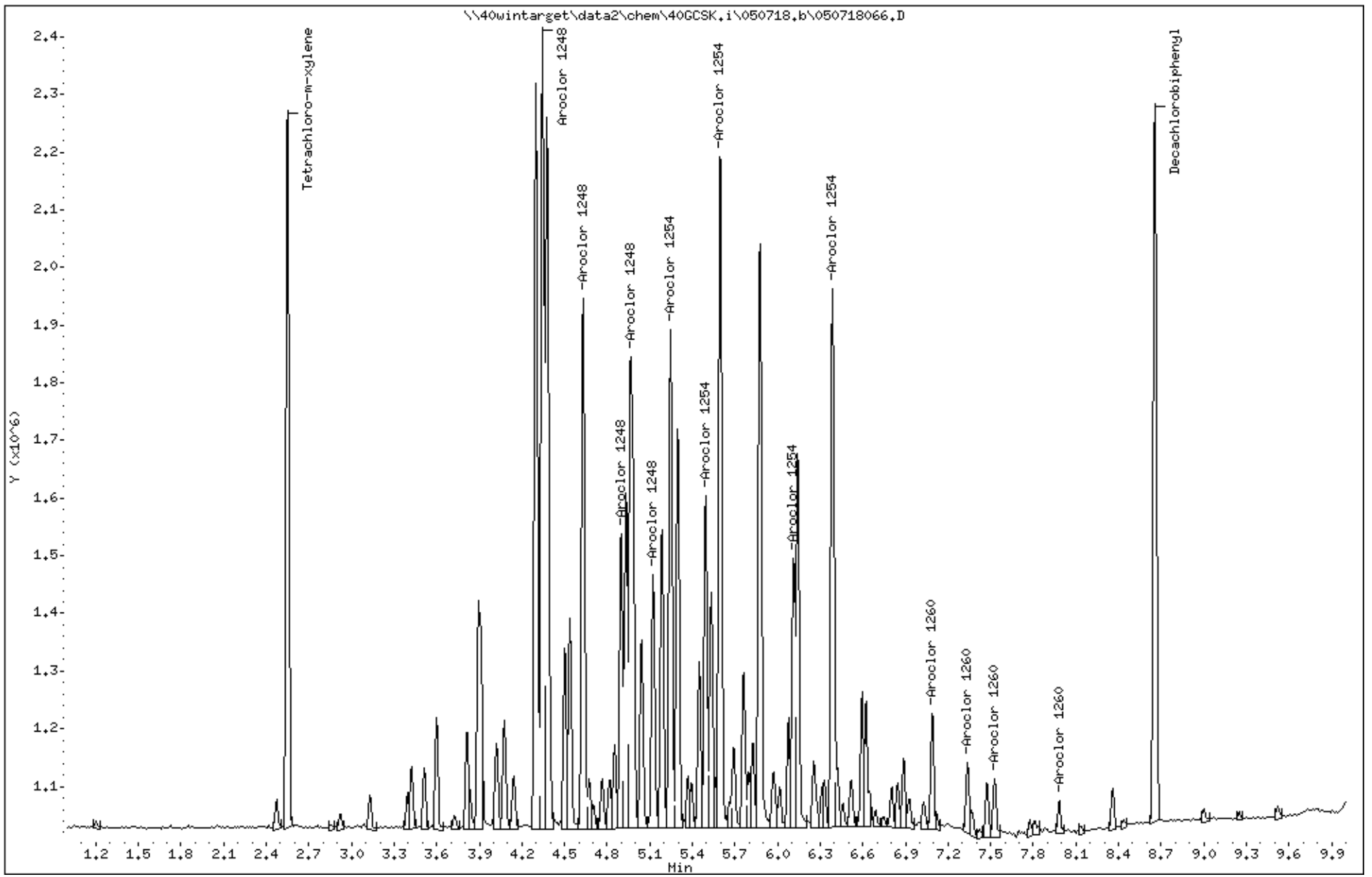
M - Compound response manually integrated.

Review Codes Legend

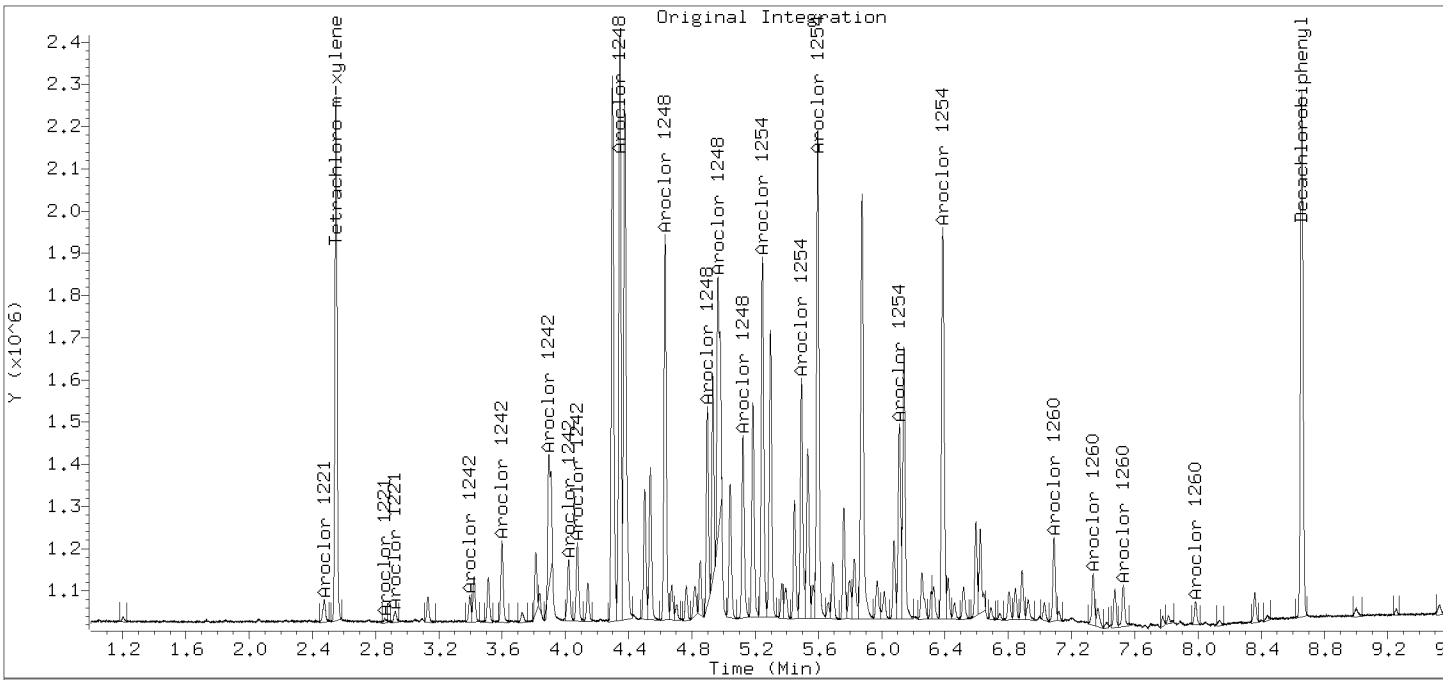
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

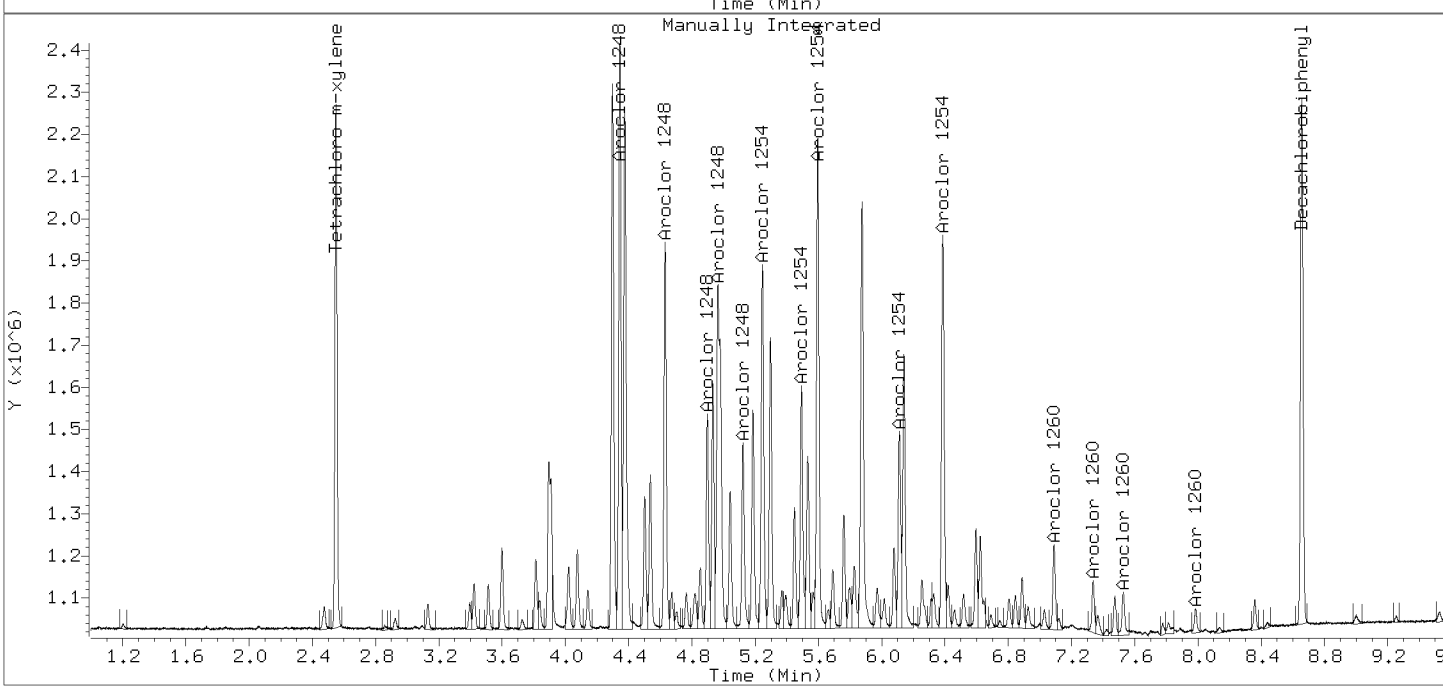
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718066.D
Date : 08-MAY-2018 06:29
Client ID: SW2-170829-01-PKSD-
Sample Info: 40158013006 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718066.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 06:29 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64091	0	
Aroclor 1016	64091	0	
Aroclor 1016	64091	0	
Aroclor 1016	64091	0	
Aroclor 1016	64091	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	33409	0	
Aroclor 1232	33409	0	
Aroclor 1232	33409	0	
Aroclor 1232	33409	0	

Aroclor 1232	33409	0	
Aroclor 1242	64091	0	
Aroclor 1242	64091	0	
Aroclor 1242	64091	0	
Aroclor 1242	64091	0	
Aroclor 1242	64091	0	
Aroclor 1248	1458505	1470442	BA
Aroclor 1248	1458505	1470442	BA
Aroclor 1248	1458505	1470442	BA
Aroclor 1248	1458505	1470442	BA
Aroclor 1248	1458505	1470442	BA
Aroclor 1254	964688	997730	BA
Aroclor 1254	964688	997730	BA
Aroclor 1254	964688	997730	BA
Aroclor 1254	964688	997730	BA
Aroclor 1254	964688	997730	BA
Aroclor 1260	1114819	0	BA
Aroclor 1260	1114819	0	BA
Aroclor 1260	1114819	0	BA
Aroclor 1260	1114819	0	BA
Aroclor 1260	1114819	0	BA
Tetrachloro-m-xylene	1199421	1199421	
Decachlorobiphenyl	1399451	1399451	

==========

SAMPLE NO.

SW2-170829-01-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.: 40158013
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158013007
Date Analyzed: 05/08/2018 06:45
Lab File ID: 050718.B\050718067.D
Initial wt/vol: 9.9717 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)	324	J
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)	1630	
11097-69-1	PCB-1254 (Aroclor 1254)	804	
11096-82-5	PCB-1260 (Aroclor 1260)	132	J
1336-36-3	PCB, Total	2890	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718067.D
Lab Smp Id: 40158013007 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 06:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013007 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 67
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	9.972	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.475	111381	91947	0.826	0.36		1 Aroclor 1221	BA
2.549	1211063	1237858	1.022	3.96	$	2 Tetrachloro-m-xylene	BA
2.757	12366	12659	1.024	0.04		1 Aroclor 1221	BA
2.862	18838	17262	0.916	0.06		1 Aroclor 1221	BA
2.924	70234	59352	0.845	0.22		1 Aroclor 1221	BA
3.131	111926	110830	0.990	0.36			
3.395	109459	108214	0.989	0.35			
3.422	155877	147019	0.943	0.51			
3.513	213713	207664	0.972	0.69			
3.598	246187	233058	0.947	0.80			
3.728	41149	31111	0.756	0.13			
3.812	233010	224565	0.964	0.76			
3.836	100186	90899	0.907	0.32			
3.894	905880	547008	0.604	2.96			
4.021	218099	179468	0.823	0.71			
4.076	194463	167901	0.863	0.63			
4.142	85214	75520	0.886	0.27			
4.297	1387490	1275587	0.919	4.54			
4.345	1370887	1277151	0.932	4.48		6 Aroclor 1248	BA
4.376	1310103	1078227	0.823	4.28			
4.430	28564	20166	0.706	0.09			
4.501	321419	297825	0.927	1.05			
4.537	382118	328621	0.860	1.25			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.630	914462	875241	0.957	2.99	6 Aroclor 1248
4.673	103682	88524	0.854	0.33	
4.704	45736	38625	0.845	0.14	
4.764	96572	83499	0.865	0.31	
4.818	116295	82078	0.706	0.38	
4.851	185072	166638	0.900	0.60	
4.898	650745	611244	0.939	2.13	6 Aroclor 1248
4.932	788537	751035	0.952	2.58	
4.964	1821036	1117582	0.614	6.42	6 Aroclor 1248
5.043	330831	271678	0.821	1.08	
5.124	680929	607851	0.893	2.22	6 Aroclor 1248
5.186	575914	519858	0.903	1.88	
5.246	1078414	940829	0.872	3.52	7 Aroclor 1254
5.297	858015	765236	0.892	2.80	
5.369	99694	95406	0.957	0.32	
5.393	119687	97068	0.811	0.39	
5.448	352296	323516	0.918	1.15	
5.492	677171	605406	0.894	2.21	7 Aroclor 1254
5.533	513291	438789	0.855	1.68	
5.565	70981	77047	1.085	0.23	
5.596	1362871	1204011	0.883	4.46	7 Aroclor 1254
5.664	56917	47819	0.840	0.18	
5.690	153348	130438	0.851	0.50	
5.760	384773	354081	0.920	1.25	
5.796	136381	107662	0.789	0.44	
5.828	244273	182755	0.748	0.79	
5.875	1578903	1229405	0.779	5.16	
5.971	130923	94293	0.720	0.42	
6.015	107247	71670	0.668	0.35	
6.078	219166	196509	0.897	0.71	
6.112	643178	559437	0.870	2.10	7 Aroclor 1254
6.141	756979	671236	0.887	2.47	
6.255	179867	124225	0.691	0.58	
6.315	63506	64748	1.020	0.20	
6.328	94131	80698	0.857	0.30	
6.387	1355803	1123174	0.828	4.43	7 Aroclor 1254
6.419	113217	95865	0.847	0.37	
6.460	60013	46173	0.769	0.19	
6.518	111896	85163	0.761	0.36	
6.595	466881	429405	0.920	1.52	
6.622	286663	214582	0.749	0.93	
6.691	40869	32341	0.791	0.13	
6.747	23503	19221	0.818	0.07	
6.803	95159	81661	0.858	0.31	
6.845	98571	86890	0.881	0.32	
6.887	144661	128695	0.890	0.47	
6.927	77010	56403	0.732	0.25	
7.029	58393	47399	0.812	0.19	
7.089	200471	179448	0.895	0.65	8 Aroclor 1260
7.120	51633	44803	0.868	0.16	
7.200	25017	15105	0.604	0.08	
7.338	138377	122496	0.885	0.45	8 Aroclor 1260
7.368	71490	52140	0.729	0.23	
7.416	19182	16753	0.873	0.06	
7.474	131592	121678	0.925	0.43	
7.527	135571	104870	0.774	0.44	8 Aroclor 1260
7.589	22929	11938	0.521	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.742	11382	11904	1.046	0.03	
7.779	34978	33506	0.958	0.11	
7.812	49929	32993	0.661	0.16	
7.886	20864	12930	0.620	0.06	
7.984	75683	64092	0.847	0.24	8 Aroclor 1260
8.136	11600	11829	1.020	0.03	
8.359	95698	80217	0.838	0.31	
8.655	1425391	1246578	0.875	4.66	$ 12 Decachlorobiphenyl
9.002	14098	11598	0.823	0.04	
9.249	23546	17630	0.749	0.07	
9.527	27529	14249	0.518	0.09	
	30551048	26149778		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718067.D
Lab Smp Id: 40158013007 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 06:45
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013007 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 67
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	9.972	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	111380	0.21127	1000	0.00- 20.00	0.00	BA
2.756	2.758	-0.002	12366	0.00892	45	0.00- 20.00	0.00	BA
2.861	2.860	0.001	18838	0.01707	86	0.00- 20.00	0.00	BA
2.924	2.923	0.001	70234	0.02101	100	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					320			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	1211063	0.01006	50		(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	1370886	0.57471	2900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	914461	0.21530	1100	0.00- 20.00	66.71	BA
4.897	4.898	-0.001	650744	0.31946	1600	0.00- 20.00	47.47	BA
4.963	4.963	0.000	1821036	0.33246	1700	0.00- 20.00	132.84	BA
5.123	5.123	0.000	680928	0.17998	900	0.00- 20.00	49.67	BA
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	1078414	0.19122	960	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	677171	0.14520	730	0.00- 20.00	62.79	BA
5.595	5.596	-0.001	1362871	0.15918	800	0.00- 20.00	126.38	BA
6.111	6.113	-0.002	643178	0.12106	610	0.00- 20.00	59.64	BA
6.386	6.387	-0.001	1355802	0.18519	930	0.00- 20.00	125.72	BA
Average of Peak Concentrations =					800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.089	7.090	-0.001	200471	0.01703	85	0.00- 20.00	14.79	BA
7.336	7.338	-0.002	138377	0.02446	120	0.00- 20.00	10.21	BA
7.527	7.529	-0.002	135570	0.03965	200	0.00- 20.00	10.00	BA
7.984	7.987	-0.003	75682	0.02390	120	0.00- 20.00	5.58	BA
Average of Peak Concentrations =					130			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	1425390	0.01070	54			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718067.D

Date : 08-MAY-2018 06:45

Client ID: SW2-170829-01-PKSD-

Instrument: 40GCSK.i

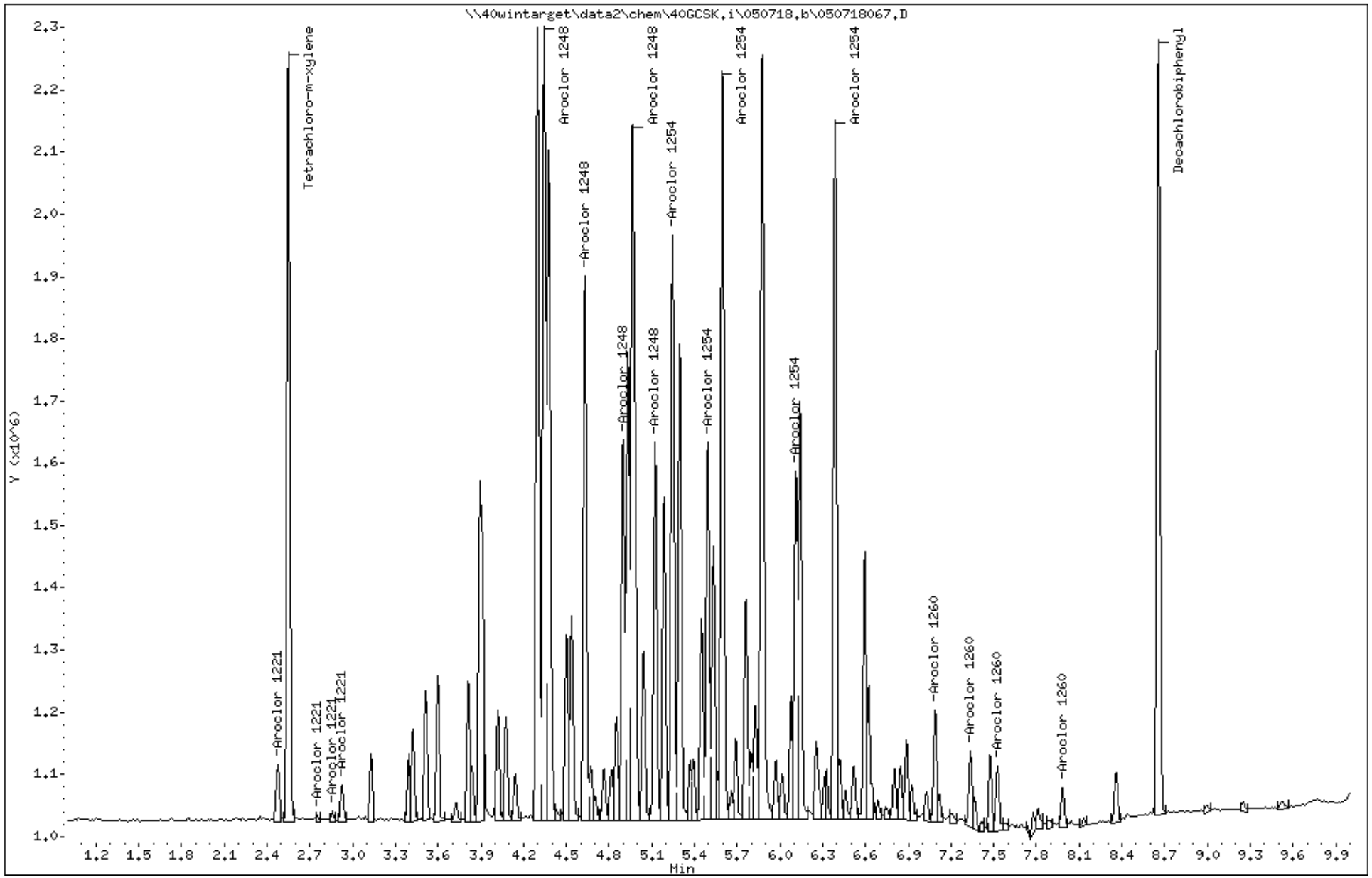
Sample Info: 40158013007 x10,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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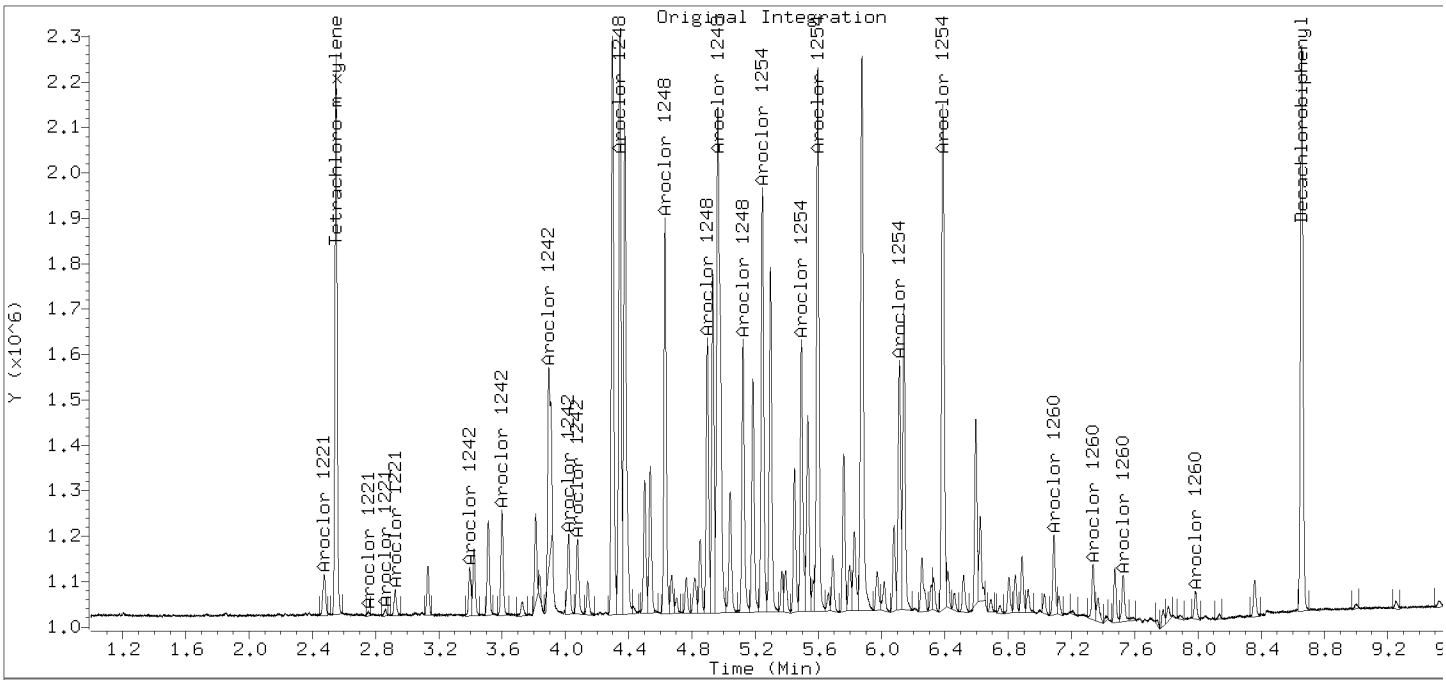
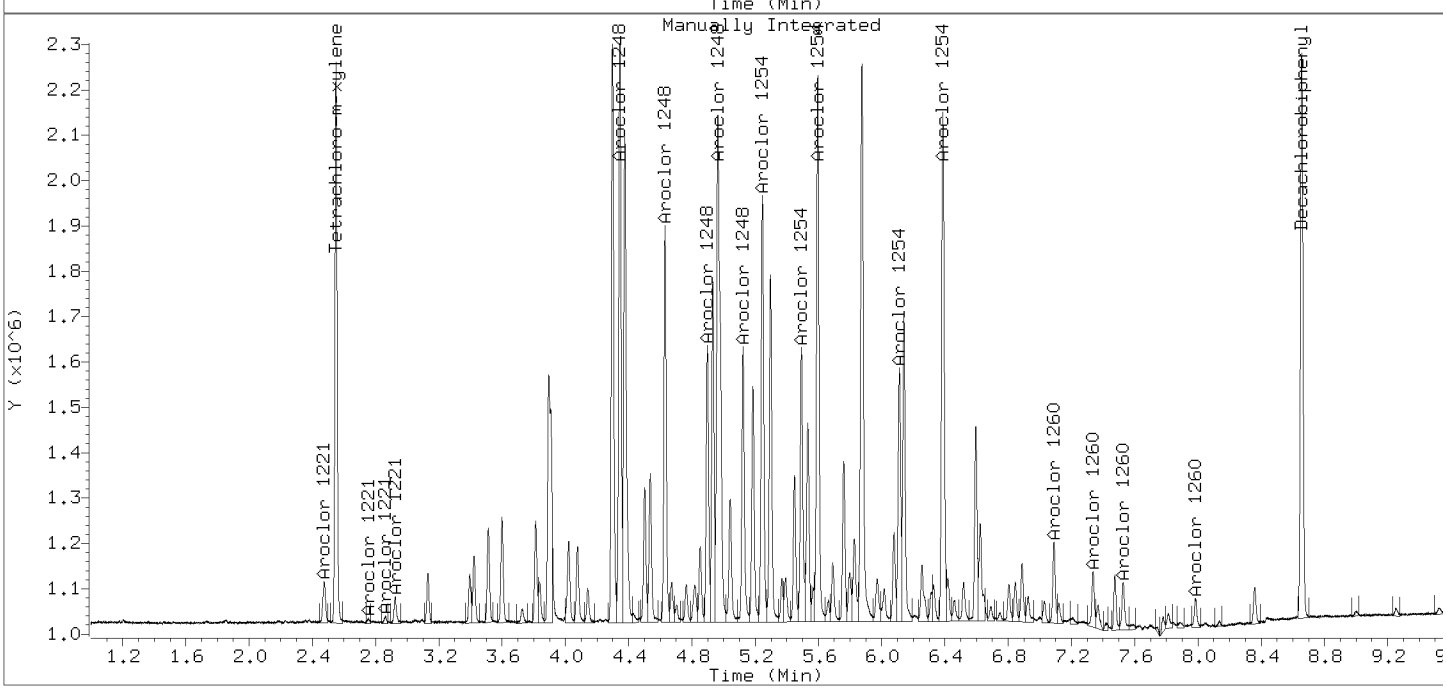
Injection Date: 08-MAY-2018 06:45 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	109459	0	
Aroclor 1016	109459	0	
Aroclor 1016	109459	0	
Aroclor 1016	109459	0	
Aroclor 1016	109459	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	63720	0	
Aroclor 1232	63720	0	
Aroclor 1232	63720	0	
Aroclor 1232	63720	0	

Aroclor 1232	63720	0	
Aroclor 1242	109459	0	
Aroclor 1242	109459	0	
Aroclor 1242	109459	0	
Aroclor 1242	109459	0	
Aroclor 1242	109459	0	
Aroclor 1248	1362769	1370886	BA
Aroclor 1248	1362769	1370886	BA
Aroclor 1248	1362769	1370886	BA
Aroclor 1248	1362769	1370886	BA
Aroclor 1248	1362769	1370886	BA
Aroclor 1254	1057480	1078414	BA
Aroclor 1254	1057480	1078414	BA
Aroclor 1254	1057480	1078414	BA
Aroclor 1254	1057480	1078414	BA
Aroclor 1254	1057480	1078414	BA
Aroclor 1260	1326049	0	BA
Aroclor 1260	1326049	0	BA
Aroclor 1260	1326049	0	BA
Aroclor 1260	1326049	0	BA
Aroclor 1260	1326049	0	BA
Tetrachloro-m-xylene	1195343	1211063	BA
Decachlorobiphenyl	1425390	1425390	

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SAMPLE NO.

SW2-170829-01-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.: 40158013
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158013008
Date Analyzed: 05/08/2018 07:01
Lab File ID: 050718.B\050718068.D
Initial wt/vol: 9.9779 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)	1140	
11097-69-1	PCB-1254 (Aroclor 1254)	597	
11096-82-5	PCB-1260 (Aroclor 1260)	138	J
1336-36-3	PCB, Total	1870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718068.D
Lab Smp Id: 40158013008 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 07:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013008 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 68
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	9.978	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.475	89708	69484	0.775	0.38		
2.550	1100286	1139435	1.036	4.74	$ 2 Tetrachloro-m-xylene	
2.862	13832	13265	0.959	0.05		
2.924	43530	38822	0.892	0.18		
3.130	87504	83285	0.952	0.37		
3.395	73976	70861	0.958	0.31		
3.422	105531	99494	0.943	0.45		
3.513	143324	139661	0.974	0.61		
3.598	163104	153121	0.939	0.70		
3.725	22960	19368	0.844	0.09		
3.812	157967	151744	0.961	0.68		
3.837	67491	59485	0.881	0.29		
3.894	598234	356268	0.596	2.58		
4.022	155442	121626	0.782	0.67		
4.077	141535	121772	0.860	0.61		
4.142	65774	55088	0.838	0.28		
4.297	956731	894326	0.935	4.12		
4.344	940601	893109	0.950	4.05	6 Aroclor 1248	BA
4.375	1002653	830440	0.828	4.32		
4.429	24250	17084	0.704	0.10		
4.502	229145	210871	0.920	0.98		
4.537	282624	242021	0.856	1.21		
4.630	688264	640355	0.930	2.96	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.674	75753	65924	0.870	0.32	
4.704	38798	31579	0.814	0.16	
4.763	73354	63271	0.863	0.31	
4.819	94397	66393	0.703	0.40	
4.852	148284	133034	0.897	0.63	
4.897	471188	435915	0.925	2.03	6 Aroclor 1248
4.932	533164	512314	0.961	2.29	
4.964	1218655	730381	0.599	5.25	6 Aroclor 1248
5.042	235357	203359	0.864	1.01	
5.123	472804	423757	0.896	2.03	6 Aroclor 1248
5.186	422335	371062	0.879	1.82	
5.246	798432	720449	0.902	3.44	7 Aroclor 1254
5.297	635216	573625	0.903	2.73	
5.369	72825	68084	0.935	0.31	
5.391	99037	74965	0.757	0.42	
5.448	236073	212581	0.900	1.01	
5.492	517418	458247	0.886	2.23	7 Aroclor 1254
5.533	414639	349230	0.842	1.78	
5.566	53785	55711	1.036	0.23	
5.595	961957	855575	0.889	4.14	7 Aroclor 1254
5.662	42380	35640	0.841	0.18	
5.691	109332	96432	0.882	0.47	
5.759	274381	254832	0.929	1.18	
5.797	102884	77882	0.757	0.44	
5.827	191518	143824	0.751	0.82	
5.876	1169788	916044	0.783	5.04	
5.972	101073	77028	0.762	0.43	
6.015	97874	64617	0.660	0.42	
6.077	188210	172721	0.918	0.81	
6.112	471477	413344	0.877	2.03	7 Aroclor 1254
6.140	658636	560632	0.851	2.84	
6.255	152957	103607	0.677	0.65	
6.315	59818	60835	1.017	0.25	
6.326	78101	68339	0.875	0.33	
6.386	1039114	882526	0.849	4.48	7 Aroclor 1254
6.418	97725	85618	0.876	0.42	
6.463	48531	37459	0.772	0.20	
6.518	99601	77958	0.783	0.42	
6.594	316315	291930	0.923	1.36	
6.623	198376	178130	0.898	0.85	
6.644	56197	56468	1.005	0.24	
6.691	34024	30131	0.886	0.14	
6.744	20325	15446	0.760	0.08	
6.804	70401	60607	0.861	0.30	
6.845	80345	72515	0.903	0.34	
6.887	128502	113084	0.880	0.55	
6.925	66034	47985	0.727	0.28	
7.028	60567	47069	0.777	0.26	
7.090	223323	205328	0.919	0.96	8 Aroclor 1260
7.122	40828	32486	0.796	0.17	
7.337	133050	120412	0.905	0.57	8 Aroclor 1260
7.367	65421	44213	0.676	0.28	
7.418	26973	17986	0.667	0.11	
7.475	125238	108326	0.865	0.54	
7.526	135074	99551	0.737	0.58	8 Aroclor 1260
7.576	26128	13175	0.504	0.11	
7.776	30385	28181	0.927	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.814	42277	29641	0.701	0.18	
7.985	90383	71571	0.792	0.38	8 Aroclor 1260
8.134	20499	16660	0.813	0.08	
8.359	88378	79892	0.904	0.38	
8.656	1329128	1180308	0.888	6.18	$ 12 Decachlorobiphenyl
9.000	18792	13581	0.723	0.08	
9.250	20284	17777	0.876	0.08	
9.526	25511	15449	0.606	0.11	
	23184093	19963681		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718068.D
Lab Smp Id: 40158013008 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 07:01
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013008 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 68
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	9.978	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	1100285	0.00914	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.343	4.343	0.000	940601	0.39432	2000	0.00- 20.00	100.00(M)	BA
4.629	4.630	-0.001	688264	0.16204	810	0.00- 20.00	73.17	BA
4.897	4.898	-0.001	471187	0.23131	1200	0.00- 20.00	50.09	BA
4.963	4.963	0.000	1218655	0.22249	1100	0.00- 20.00	129.56	BA
5.123	5.123	0.000	472804	0.12497	630	0.00- 20.00	50.27	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	798431	0.14158	710	0.00- 20.00	100.00(M)	BA
5.491	5.492	-0.001	517417	0.11094	560	0.00- 20.00	64.80	BA
5.594	5.596	-0.002	961957	0.11235	560	0.00- 20.00	120.48	BA
6.111	6.113	-0.002	471476	0.08874	440	0.00- 20.00	59.05	BA
6.386	6.387	-0.001	1039113	0.14193	710	0.00- 20.00	130.14	BA
Average of Peak Concentrations =					600			
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	223323	0.01898	95	0.00- 20.00	21.49	BA
7.336	7.338	-0.002	133050	0.02352	120	0.00- 20.00	12.80	BA
7.525	7.529	-0.004	135073	0.03951	200	0.00- 20.00	13.00	BA
7.985	7.987	-0.002	90382	0.02854	140	0.00- 20.00	8.70	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	1329127	0.00998	50			

QC Flag Legend

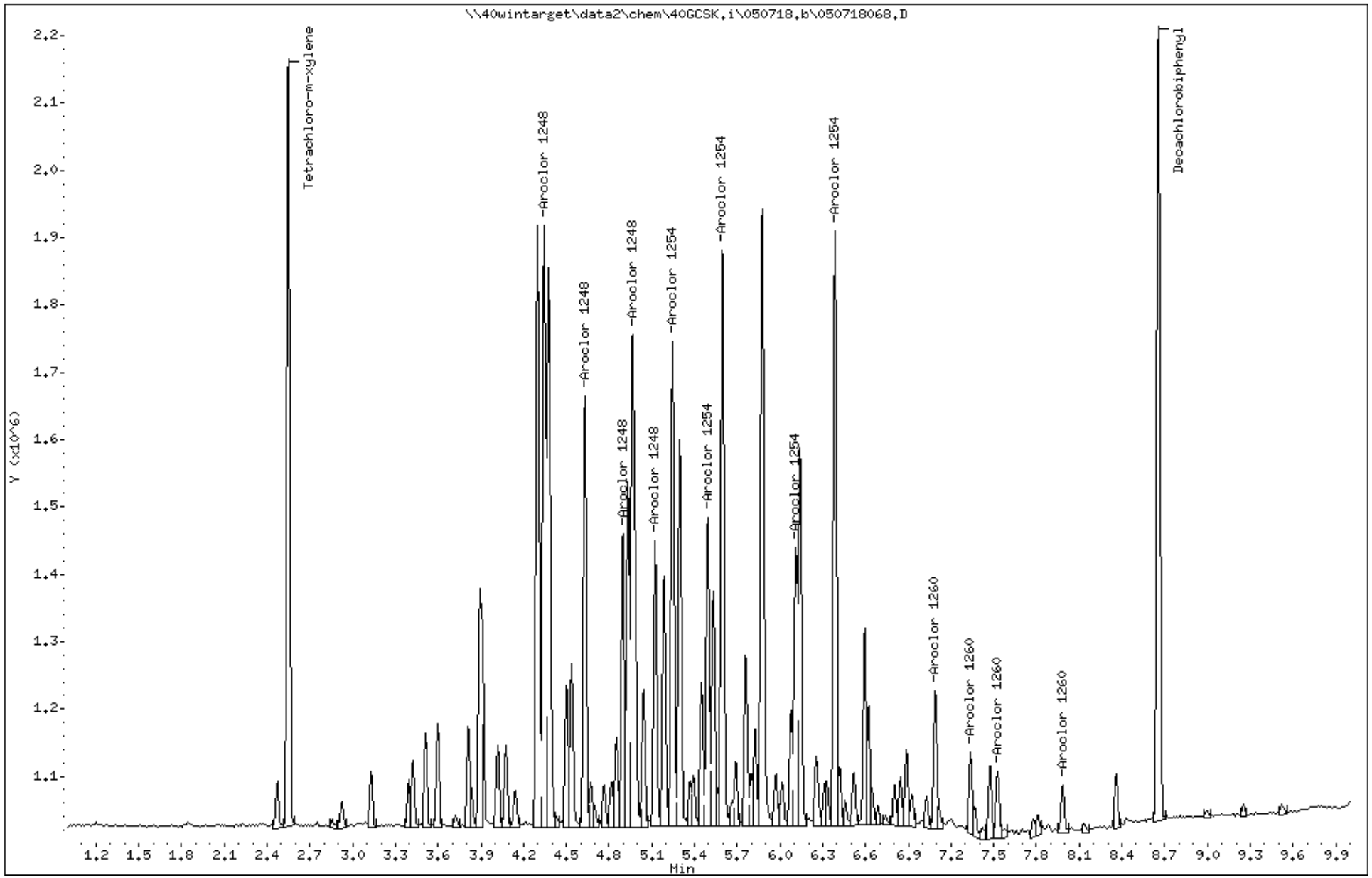
M - Compound response manually integrated.

Review Codes Legend

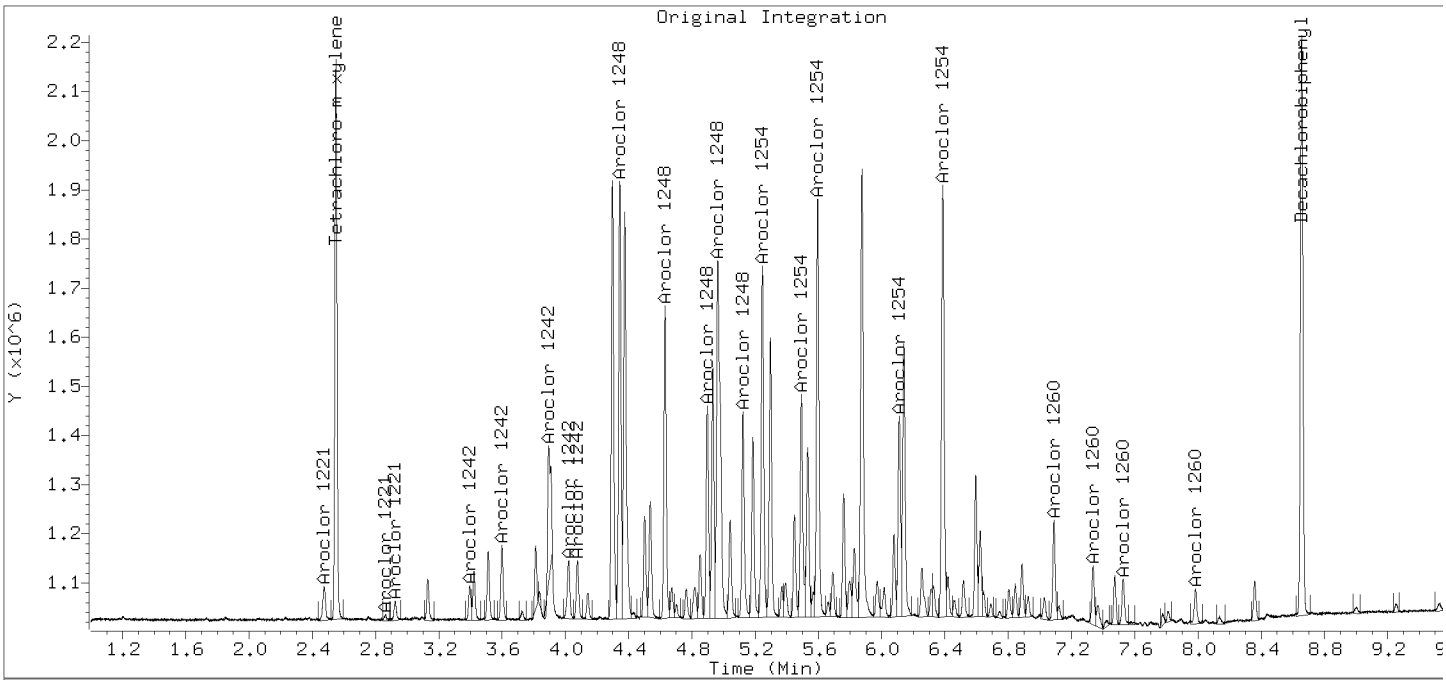
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

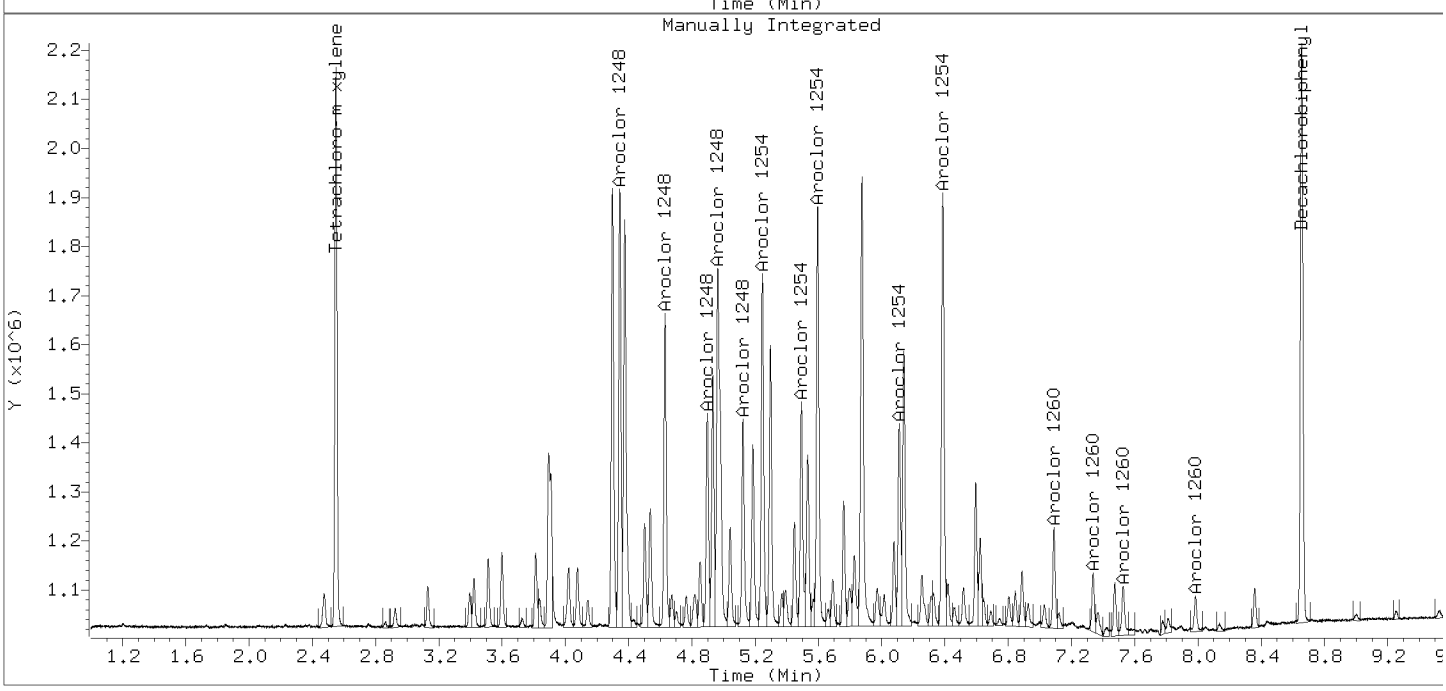
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718068.D
Date : 08-MAY-2018 07:01
Client ID: SW2-170829-01-PKSD-
Sample Info: 40158013008 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718068.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 07:01 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	73976	0	
Aroclor 1016	73976	0	
Aroclor 1016	73976	0	
Aroclor 1016	73976	0	
Aroclor 1016	73976	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	43529	0	
Aroclor 1232	43529	0	
Aroclor 1232	43529	0	
Aroclor 1232	43529	0	

Aroclor 1232	43529	0	
Aroclor 1242	73976	0	
Aroclor 1242	73976	0	
Aroclor 1242	73976	0	
Aroclor 1242	73976	0	
Aroclor 1242	73976	0	
Aroclor 1248	932892	940601	BA
Aroclor 1248	932892	940601	BA
Aroclor 1248	932892	940601	BA
Aroclor 1248	932892	940601	BA
Aroclor 1248	932892	940601	BA
Aroclor 1254	783754	798431	BA
Aroclor 1254	783754	798431	BA
Aroclor 1254	783754	798431	BA
Aroclor 1254	783754	798431	BA
Aroclor 1254	783754	798431	BA
Aroclor 1260	1028091	0	BA
Aroclor 1260	1028091	0	BA
Aroclor 1260	1028091	0	BA
Aroclor 1260	1028091	0	BA
Aroclor 1260	1028091	0	BA
Tetrachloro-m-xylene	1100285	1100285	
Decachlorobiphenyl	1329127	1329127	

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SAMPLE NO.

SW2-170829-01-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.: 40158013
Date Extracted: 05/02/2018 09:20
Lab Sample ID: 40158013009
Date Analyzed: 05/08/2018 07:16
Lab File ID: 050718.B\050718069.D
Initial wt/vol: 9.9617 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)	1420	
11097-69-1	PCB-1254 (Aroclor 1254)	730	
11096-82-5	PCB-1260 (Aroclor 1260)	160	J
1336-36-3	PCB, Total	2310	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718069.D
Lab Smp Id: 40158013009 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 07:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013009 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69
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	9.962	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.378	9863	10246	1.039	0.03		
2.474	120184	95629	0.796	0.41		
2.549	1054952	1110759	1.053	3.67	$ 2 Tetrachloro-m-xylene	
2.862	15104	14715	0.974	0.05		
2.924	63852	57948	0.908	0.22		
3.130	123298	121136	0.982	0.42		
3.396	107670	107721	1.000	0.37		
3.423	165545	150934	0.912	0.57		
3.512	221788	215769	0.973	0.77		
3.599	246855	229244	0.929	0.85		
3.728	39970	30606	0.766	0.13		
3.812	218320	215975	0.989	0.75		
3.836	97605	84510	0.866	0.33		
3.895	846018	503003	0.595	2.94		
4.020	234179	193482	0.826	0.81		
4.075	205806	177902	0.864	0.71		
4.141	93509	88640	0.948	0.32		
4.297	1284578	1194011	0.929	4.47		
4.344	1223293	1152173	0.942	4.25	6 Aroclor 1248	BA
4.375	1242585	1025752	0.825	4.32		
4.501	322376	304166	0.944	1.12		
4.537	365409	324971	0.889	1.27		
4.630	885342	820494	0.927	3.08	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.672	98133	86217	0.879	0.34	
4.702	59477	46199	0.777	0.20	
4.764	97185	85903	0.884	0.33	
4.818	114745	86388	0.753	0.39	
4.852	177782	165788	0.933	0.61	
4.897	543010	508656	0.937	1.89	6 Aroclor 1248
4.932	613822	586870	0.956	2.13	
4.964	1527094	850528	0.557	5.80	6 Aroclor 1248
5.042	330266	279677	0.847	1.14	
5.122	554885	501623	0.904	1.93	6 Aroclor 1248
5.185	567965	518734	0.913	1.97	
5.246	954383	851305	0.892	3.32	7 Aroclor 1254
5.297	719647	632051	0.878	2.50	
5.368	85097	82268	0.967	0.29	
5.391	129281	101237	0.783	0.44	
5.448	286055	263702	0.922	0.99	
5.493	612112	555532	0.908	2.13	7 Aroclor 1254
5.533	478659	410536	0.858	1.66	
5.564	97629	90388	0.926	0.33	
5.595	1178136	1054017	0.895	4.10	7 Aroclor 1254
5.662	51590	46704	0.905	0.17	
5.691	144357	122048	0.845	0.50	
5.761	374928	343627	0.917	1.30	
5.795	145750	116977	0.803	0.50	
5.827	225366	168637	0.748	0.78	
5.874	1394393	1079790	0.774	4.85	
5.971	147150	103500	0.703	0.51	
6.016	109068	85504	0.784	0.37	
6.077	230788	212763	0.922	0.80	
6.111	598666	531521	0.888	2.08	7 Aroclor 1254
6.140	765916	675248	0.882	2.66	
6.254	193063	127347	0.660	0.67	
6.313	57477	73999	1.287	0.20	
6.327	113340	88697	0.783	0.39	
6.386	1295342	1084917	0.838	4.50	7 Aroclor 1254
6.419	113981	105949	0.930	0.39	
6.461	59998	48313	0.805	0.20	
6.517	144550	112986	0.782	0.50	
6.595	382010	342072	0.895	1.32	
6.622	285801	213546	0.747	0.99	
6.689	41546	36795	0.886	0.14	
6.746	27772	20286	0.730	0.09	
6.804	115323	100509	0.872	0.40	
6.843	118435	100988	0.853	0.41	
6.886	150003	129840	0.866	0.52	
6.926	90083	66359	0.737	0.31	
6.996	18489	13684	0.740	0.06	
7.026	63933	53643	0.839	0.22	
7.089	262590	238508	0.908	0.91	8 Aroclor 1260
7.119	45963	37948	0.826	0.15	
7.203	50130	26627	0.531	0.17	
7.336	153344	137425	0.896	0.53	8 Aroclor 1260
7.367	71078	51353	0.722	0.24	
7.421	35436	19956	0.563	0.12	
7.475	147127	139445	0.948	0.51	
7.527	168491	121418	0.721	0.58	8 Aroclor 1260
7.622	18165	13241	0.729	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.745	16995	15787	0.929	0.05	
7.779	39122	36067	0.922	0.13	
7.812	47230	38556	0.816	0.16	
7.839	53971	29822	0.553	0.18	
7.984	90648	76220	0.841	0.31	8 Aroclor 1260
8.043	16746	12608	0.753	0.05	
8.136	18263	16021	0.877	0.06	
8.360	101523	87413	0.861	0.35	
8.443	46896	29731	0.634	0.16	
8.655	1286375	1138793	0.885	4.47	$ 12 Decachlorobiphenyl
9.000	68379	43090	0.630	0.23	
9.253	25483	23099	0.906	0.08	
9.525	92522	55039	0.595	0.32	
	28729058	24581821		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718069.D
Lab Smp Id: 40158013009 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 08-MAY-2018 07:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013009 x10,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69
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	9.962	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	1054951	0.00876	44			

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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	1223293	0.51284	2600	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	885341	0.20844	1000	0.00- 20.00	72.37	BA
4.897	4.898	-0.001	543009	0.26657	1300	0.00- 20.00	44.39	BA
4.964	4.963	0.001	1527093	0.27880	1400	0.00- 20.00	124.83	BA
5.122	5.123	-0.001	554884	0.14667	740	0.00- 20.00	45.36	BA
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	954382	0.16923	850	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	612111	0.13125	660	0.00- 20.00	64.14	BA
5.594	5.596	-0.002	1178136	0.13760	690	0.00- 20.00	123.44	BA
6.111	6.113	-0.002	598666	0.11268	560	0.00- 20.00	62.73	BA
6.386	6.387	-0.001	1295342	0.17693	890	0.00- 20.00	135.73	BA
Average of Peak Concentrations =					730			
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	262590	0.02231	110	0.00- 20.00	20.27	BA
7.335	7.338	-0.003	153343	0.02711	140	0.00- 20.00	11.84	BA
7.526	7.529	-0.003	168490	0.04928	250	0.00- 20.00	13.01	BA
7.984	7.987	-0.003	90648	0.02862	140	0.00- 20.00	7.00	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	1286375	0.00966	48			

QC Flag Legend

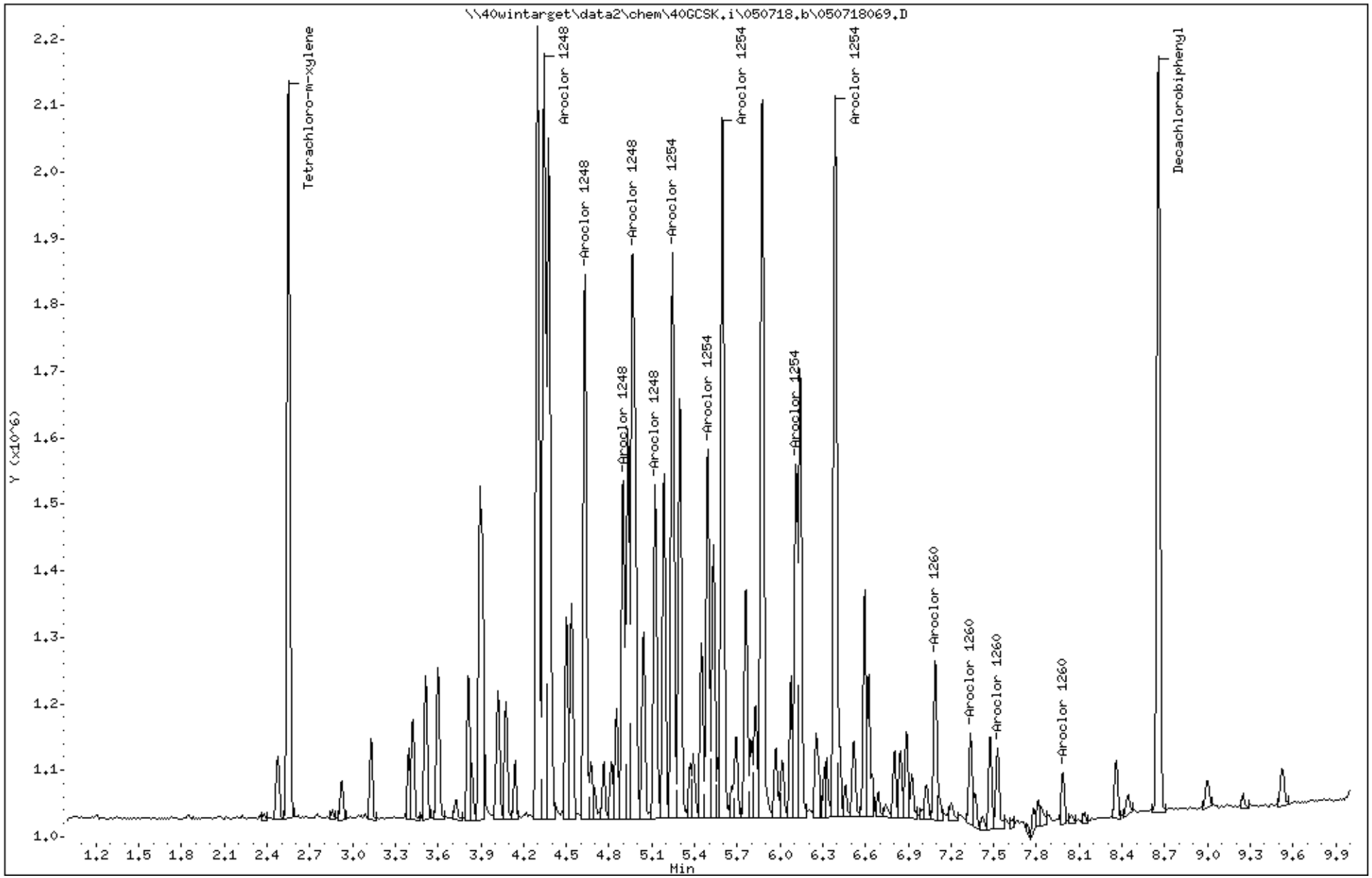
M - Compound response manually integrated.

Review Codes Legend

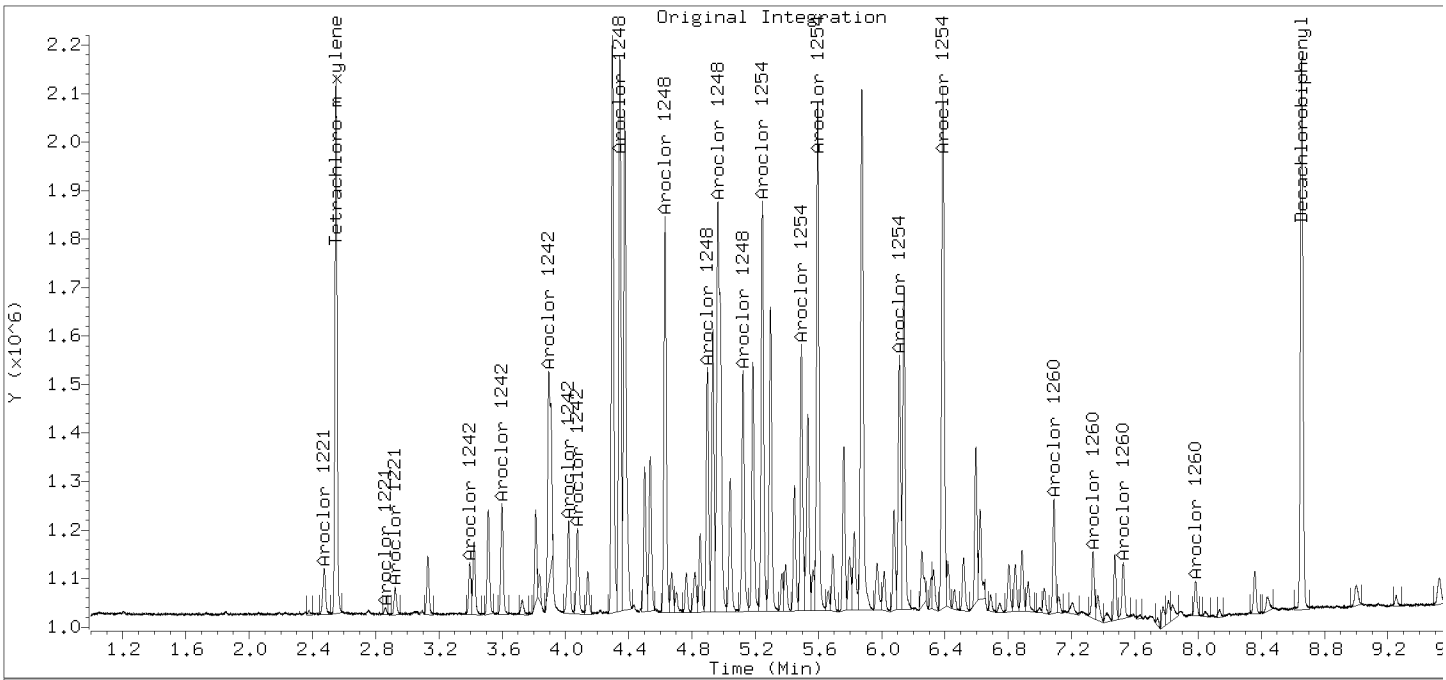
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

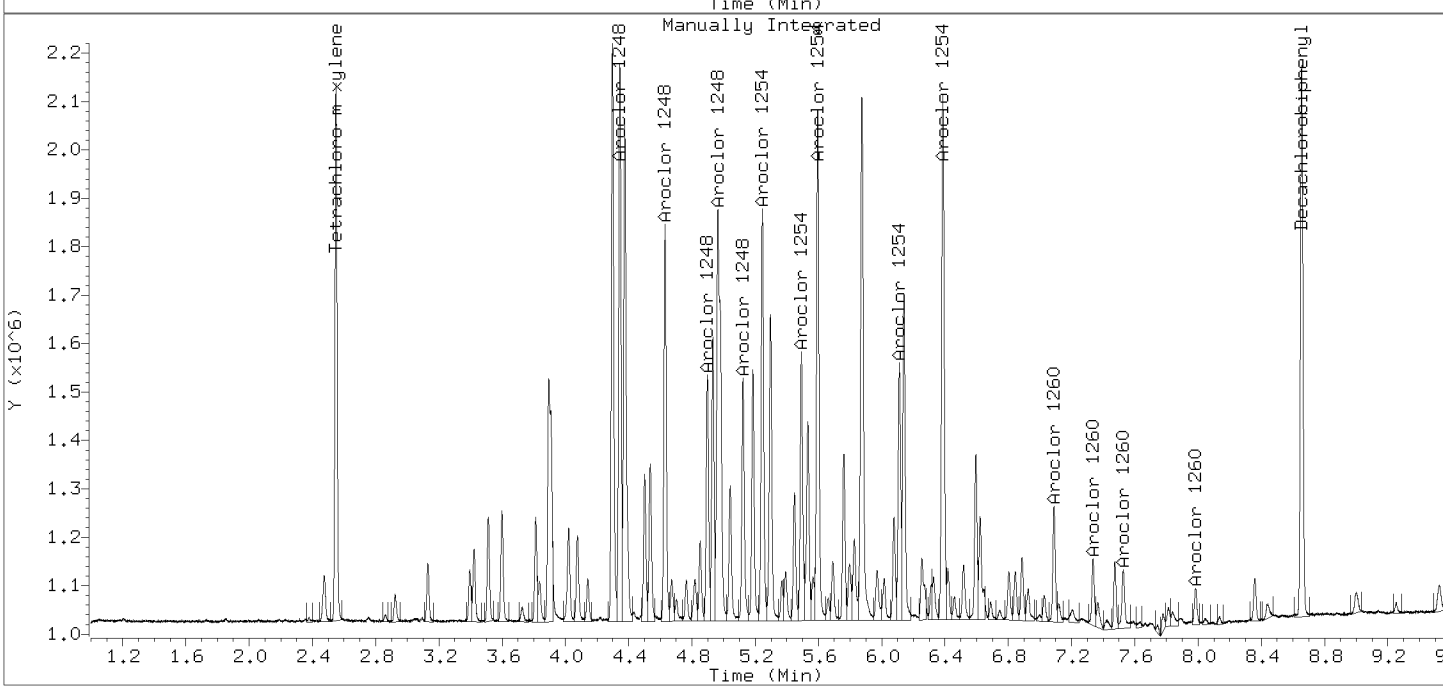
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718069.D
Date : 08-MAY-2018 07:16
Client ID: SW2-170829-01-PKSD-
Sample Info: 40158013009 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718069.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 07:16 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	107670	0	
Aroclor 1016	107670	0	
Aroclor 1016	107670	0	
Aroclor 1016	107670	0	
Aroclor 1016	107670	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	63852	0	
Aroclor 1232	63852	0	
Aroclor 1232	63852	0	
Aroclor 1232	63852	0	

Aroclor 1232	63852	0	
Aroclor 1242	107670	0	
Aroclor 1242	107670	0	
Aroclor 1242	107670	0	
Aroclor 1242	107670	0	
Aroclor 1242	107670	0	
Aroclor 1248	1207054	1223293	BA
Aroclor 1248	1207054	1223293	BA
Aroclor 1248	1207054	1223293	BA
Aroclor 1248	1207054	1223293	BA
Aroclor 1248	1207054	1223293	BA
Aroclor 1254	938201	954382	BA
Aroclor 1254	938201	954382	BA
Aroclor 1254	938201	954382	BA
Aroclor 1254	938201	954382	BA
Aroclor 1254	938201	954382	BA
Aroclor 1260	1268321	0	BA
Aroclor 1260	1268321	0	BA
Aroclor 1260	1268321	0	BA
Aroclor 1260	1268321	0	BA
Aroclor 1260	1268321	0	BA
Tetrachloro-m-xylene	1054951	1054951	
Decachlorobiphenyl	1286375	1286375	

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SAMPLE NO.

SW2-170829-01-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.: 40158013
Date Extracted: 04/24/2018 07:41
Lab Sample ID: 40158013010
Date Analyzed: 04/25/2018 21:34
Lab File ID: 042518.B\042518032.D
Initial wt/vol: 5.5162 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<207	U
11104-28-2	PCB-1221 (Aroclor 1221)	388	J
11141-16-5	PCB-1232 (Aroclor 1232)	<207	U
53469-21-9	PCB-1242 (Aroclor 1242)	<207	U
12672-29-6	PCB-1248 (Aroclor 1248)	2900	
11097-69-1	PCB-1254 (Aroclor 1254)	1260	
11096-82-5	PCB-1260 (Aroclor 1260)	225	J
1336-36-3	PCB, Total	4770	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518032.D
Lab Smp Id: 40158013010 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 21:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158013010 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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) * CpndV

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	5.516	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.170	12012	8450	0.703	0.04			
2.411	73588	52737	0.717	0.26		1 Aroclor 1221	BA
2.485	1191430	1122468	0.942	4.31	$	2 Tetrachloro-m-xylene	BA
2.682	9643	11223	1.164	0.03		1 Aroclor 1221	BA
2.788	15781	13805	0.875	0.05		1 Aroclor 1221	BA
2.851	50885	41493	0.815	0.18		1 Aroclor 1221	BA
3.054	87476	73127	0.836	0.31			
3.317	131834	121603	0.922	0.47			
3.344	179670	168817	0.940	0.65			
3.434	204970	188935	0.922	0.74			
3.519	391544	364096	0.930	1.41			
3.644	39642	31112	0.785	0.14			
3.732	280796	265913	0.947	1.01			
3.756	102476	98335	0.960	0.37			
3.814	1123279	667648	0.594	4.06			
3.938	280218	233305	0.833	1.01			
3.993	252645	227838	0.902	0.91			
4.057	89481	74361	0.831	0.32			
4.214	1482728	1359055	0.917	5.36			
4.261	1511837	1404765	0.929	5.47		6 Aroclor 1248	BA
4.292	1552148	1284251	0.827	6.05			
4.417	303833	272691	0.898	1.10			
4.452	375427	323278	0.861	1.35			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	1027918	948231	0.922	3.72	6 Aroclor 1248
4.590	97692	90680	0.928	0.35	
4.617	47501	37659	0.793	0.17	
4.681	97001	83061	0.856	0.35	
4.734	117464	85468	0.728	0.42	
4.767	162584	147703	0.908	0.58	
4.813	550937	518662	0.941	1.99	6 Aroclor 1248
4.847	599523	582178	0.971	2.17	
4.880	1436571	804478	0.560	5.20	6 Aroclor 1248
4.956	325917	282923	0.868	1.18	
5.037	529132	461075	0.871	1.91	6 Aroclor 1248
5.101	520353	453326	0.871	1.88	
5.161	885649	753326	0.851	3.20	7 Aroclor 1254
5.212	661988	584662	0.883	2.39	
5.283	80223	77769	0.969	0.29	
5.308	101778	80526	0.791	0.36	
5.363	261975	230674	0.881	0.94	
5.407	539816	479907	0.889	1.95	7 Aroclor 1254
5.446	385150	321080	0.834	1.39	
5.479	87683	79477	0.906	0.31	
5.509	1126110	984405	0.874	4.07	7 Aroclor 1254
5.577	53165	45322	0.852	0.19	
5.604	131967	109357	0.829	0.47	
5.674	323904	294049	0.908	1.17	
5.711	125427	94106	0.750	0.45	
5.742	198895	152312	0.766	0.72	
5.791	1185258	880931	0.743	4.29	
5.885	135913	89694	0.660	0.49	
5.932	85871	61418	0.715	0.31	
5.993	188535	172009	0.912	0.68	
6.025	484506	404614	0.835	1.75	7 Aroclor 1254
6.054	630153	527494	0.837	2.28	
6.170	160559	99016	0.617	0.58	
6.228	50017	60938	1.218	0.18	
6.241	100264	73692	0.735	0.36	
6.300	1007888	824891	0.818	3.65	7 Aroclor 1254
6.332	101107	87960	0.870	0.36	
6.371	56636	38126	0.673	0.20	
6.433	95932	72204	0.753	0.34	
6.510	295087	270231	0.916	1.06	
6.535	242687	167517	0.690	0.87	
6.605	39984	28241	0.706	0.14	
6.662	21616	17428	0.806	0.07	
6.719	87317	71062	0.814	0.31	
6.758	84988	75148	0.884	0.30	
6.801	118726	100381	0.845	0.42	
6.841	68084	43794	0.643	0.24	
6.941	42345	34213	0.808	0.15	
7.004	182187	161858	0.888	0.65	8 Aroclor 1260
7.036	24329	26752	1.100	0.08	
7.252	114661	99336	0.866	0.41	8 Aroclor 1260
7.281	50391	34085	0.676	0.18	
7.389	99511	86683	0.871	0.36	
7.442	99421	81473	0.819	0.36	8 Aroclor 1260
7.613	14289	7494	0.524	0.05	
7.692	23388	20478	0.876	0.08	
7.729	30275	24323	0.803	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.798	20733	11453	0.552	0.07	
7.901	60420	45653	0.756	0.21	8 Aroclor 1260
8.054	9266	8881	0.958	0.03	
8.274	64859	54388	0.839	0.23	
8.380	10719	7932	0.740	0.03	
8.569	1286047	1097468	0.853	4.65	$ 12 Decachlorobiphenyl
9.171	18518	11221	0.606	0.06	
	27612149	23172202		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518032.D
Lab Smp Id: 40158013010 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 21:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158013010 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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) * CpndV

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	5.516	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	73587	0.13432	1200	0.00- 20.00	0.00	BA
2.681	2.688	-0.007	9642	0.00697	63	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	15780	0.01427	130	0.00- 20.00	0.00	BA
2.851	2.851	0.000	50884	0.01563	140	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					390			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1191430	0.00966	88		(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			
4.260	4.261	-0.001	1511837	0.64526	5800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1027917	0.24767	2200	0.00- 20.00	67.99	BA
4.812	4.812	0.000	550936	0.27139	2400	0.00- 20.00	36.44	BA
4.879	4.879	0.000	1436570	0.28518	2600	0.00- 20.00	95.02	BA
5.036	5.038	-0.002	529131	0.14745	1300	0.00- 20.00	35.00	BA
Average of Peak Concentrations =					2900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	885648	0.16917	1500	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	539815	0.12551	1100	0.00- 20.00	60.95	BA
5.508	5.510	-0.002	1126109	0.14500	1300	0.00- 20.00	127.15	BA
6.024	6.027	-0.003	484506	0.09949	900	0.00- 20.00	54.71	BA
6.300	6.299	0.001	1007888	0.15489	1400	0.00- 20.00	113.80	BA
Average of Peak Concentrations =					1200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	182186	0.01819	160	0.00- 20.00	20.45	CO
7.251	7.251	0.000	114661	0.02399	220	0.00- 20.00	11.38	CO
7.441	7.443	-0.002	99420	0.03411	310	0.00- 20.00	9.86	CO
7.900	7.901	-0.001	60419	0.02290	210	0.00- 20.00	5.99	CO
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	1286046	0.01174	110			

QC Flag Legend

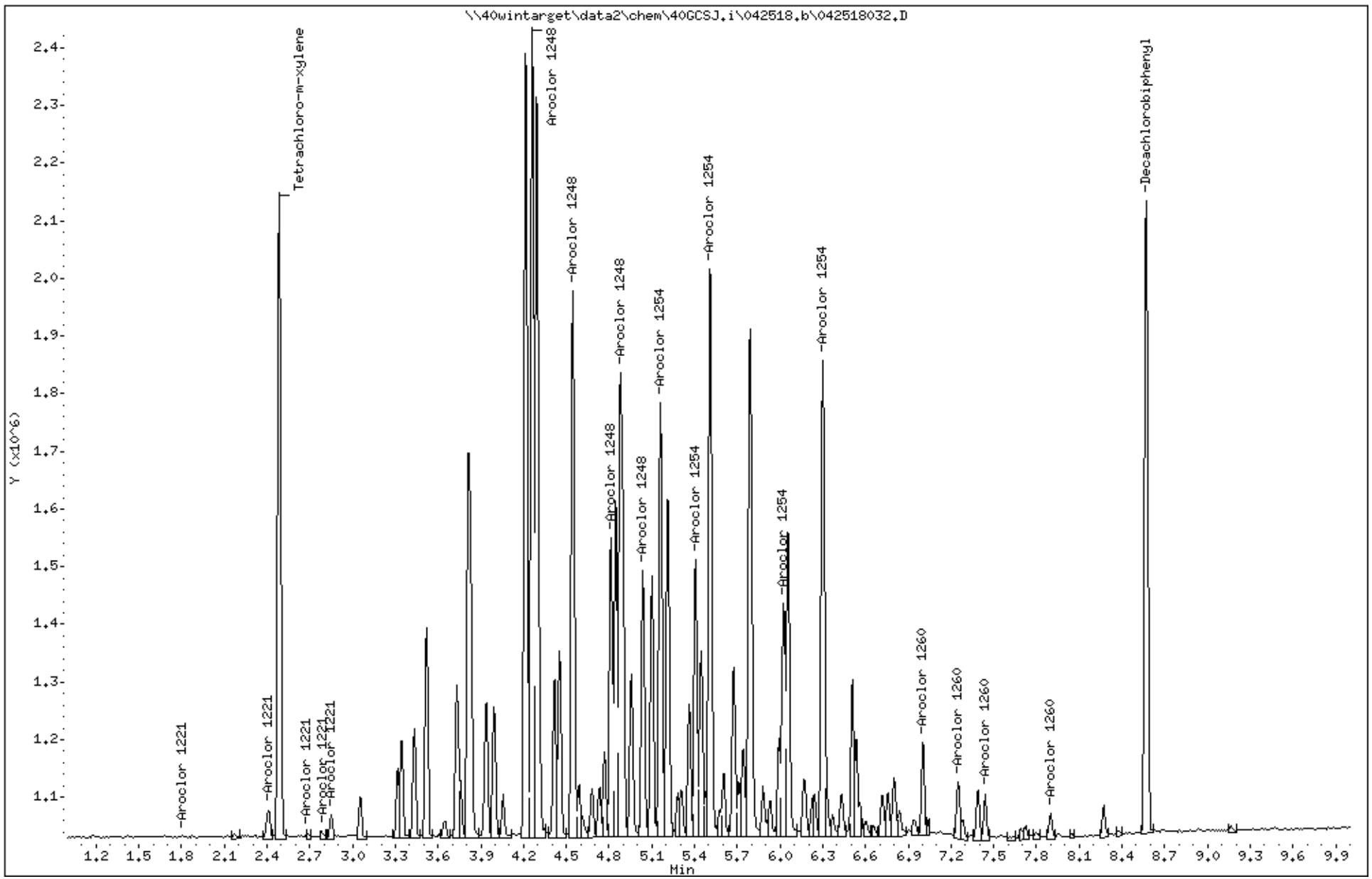
M - Compound response manually integrated.

Review Codes Legend

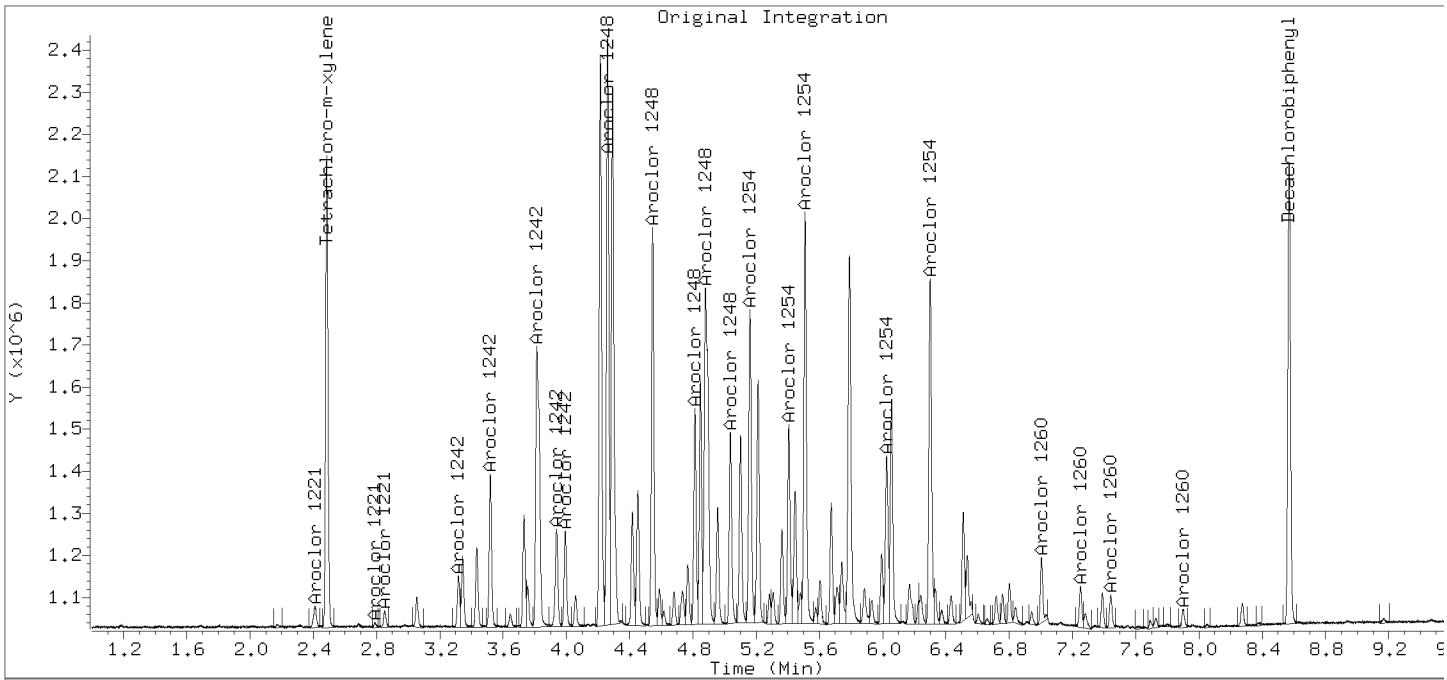
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

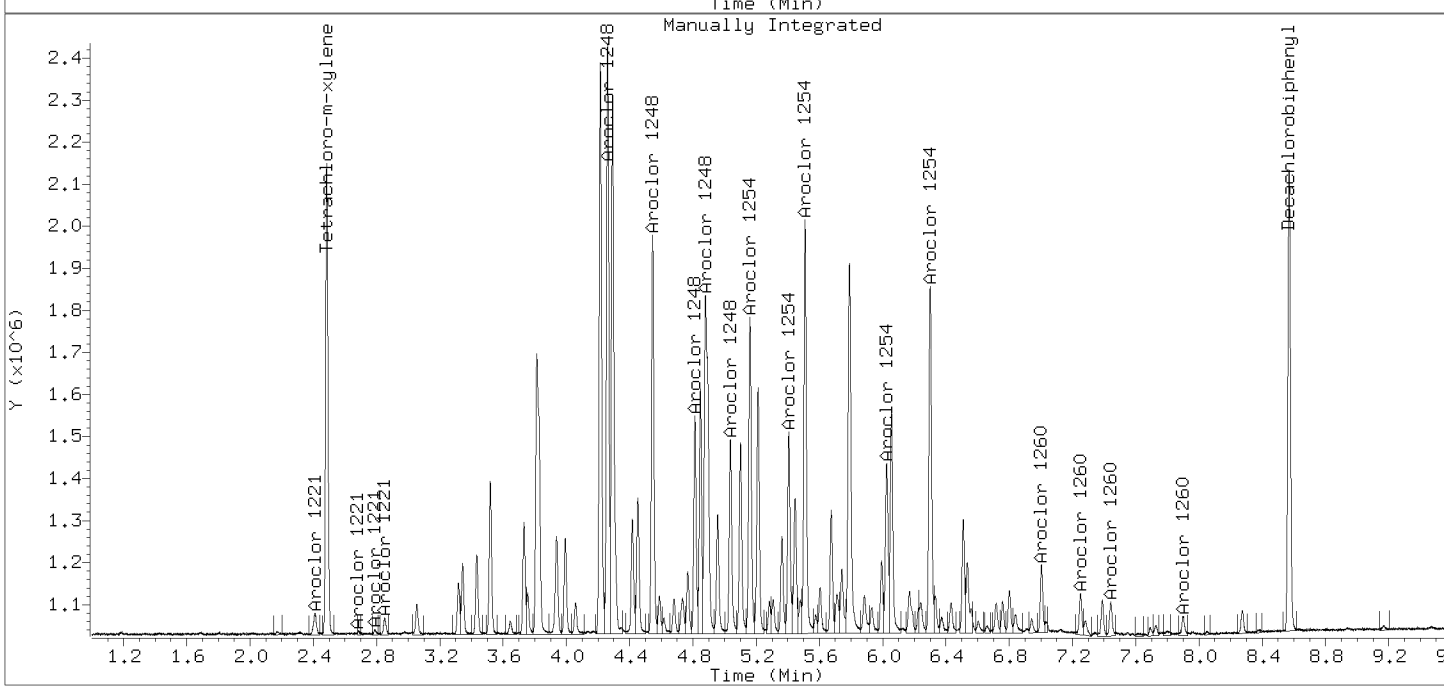
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518032.D
Date : 25-APR-2018 21:34
Client ID: SW2-170829-01-PKSD-
Sample Info: 40158013010 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 21:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158013010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	131834	0	
Aroclor 1016	131834	0	
Aroclor 1016	131834	0	
Aroclor 1016	131834	0	
Aroclor 1016	131834	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	45518	0	
Aroclor 1232	45518	0	
Aroclor 1232	45518	0	
Aroclor 1232	45518	0	

Aroclor 1232	45518	0	
Aroclor 1242	131834	0	
Aroclor 1242	131834	0	
Aroclor 1242	131834	0	
Aroclor 1242	131834	0	
Aroclor 1242	131834	0	
Aroclor 1248	1498430	1511837	BA
Aroclor 1248	1498430	1511837	BA
Aroclor 1248	1498430	1511837	BA
Aroclor 1248	1498430	1511837	BA
Aroclor 1248	1498430	1511837	BA
Aroclor 1254	856483	885648	BA
Aroclor 1254	856483	885648	BA
Aroclor 1254	856483	885648	BA
Aroclor 1254	856483	885648	BA
Aroclor 1254	856483	885648	BA
Aroclor 1260	993174	0	CO
Aroclor 1260	993174	0	CO
Aroclor 1260	993174	0	CO
Aroclor 1260	993174	0	CO
Aroclor 1260	993174	0	CO
Tetrachloro-m-xylene	1185233	1191430	BA
Decachlorobiphenyl	1286046	1286046	

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SAMPLE NO.

ND3-170829-01-SPSH-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.: 40158013
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158013011
Date Analyzed: 05/07/2018 23:21
Lab File ID: 050718.B\050718039.D
Initial wt/vol: 10.0286 Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<227	U
11104-28-2	PCB-1221 (Aroclor 1221)	<227	U
11141-16-5	PCB-1232 (Aroclor 1232)	<227	U
53469-21-9	PCB-1242 (Aroclor 1242)	<227	U
12672-29-6	PCB-1248 (Aroclor 1248)	2340	
11097-69-1	PCB-1254 (Aroclor 1254)	1080	
11096-82-5	PCB-1260 (Aroclor 1260)	256	J
1336-36-3	PCB, Total	3680	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718039.D
Lab Smp Id: 40158013011 Client Smp ID: ND3-170829-01-SPSH-
Inj Date : 07-MAY-2018 23:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013011 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 39
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.475	41476	33942	0.818	0.19		
2.550	631747	657517	1.041	2.93	$ 2 Tetrachloro-m-xylene	
3.095	17763	19111	1.076	0.08		
3.132	26802	25389	0.947	0.12		
3.514	29234	28347	0.970	0.13		
3.600	15667	12139	0.775	0.07	5 Aroclor 1016	BA
3.722	28130	21387	0.760	0.13		
3.813	197217	190191	0.964	0.91		
3.837	68845	60502	0.879	0.31		
3.897	369636	404696	1.095	1.71		
3.908	420846	384300	0.913	1.95	5 Aroclor 1016	BA
4.005	31739	18410	0.580	0.14	5 Aroclor 1016	BA
4.078	107252	93216	0.869	0.49	5 Aroclor 1016	BA
4.143	57889	52414	0.905	0.26		
4.298	1087376	1025471	0.943	5.04		
4.345	1082405	1035504	0.957	5.02	6 Aroclor 1248	BA
4.377	1095537	956048	0.873	5.08		
4.431	32851	21336	0.649	0.15		
4.502	402453	374575	0.931	1.86		
4.537	358204	304972	0.851	1.66		
4.632	658101	631404	0.959	3.05	6 Aroclor 1248	BA
4.673	95661	84578	0.884	0.44		
4.702	94107	78627	0.836	0.43		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.765	87247	74499	0.854	0.40	
4.820	100215	70828	0.707	0.46	
4.853	180734	173642	0.961	0.83	
4.898	481156	461084	0.958	2.23	6 Aroclor 1248
4.933	419215	399129	0.952	1.94	
4.964	1139034	576441	0.506	5.68	6 Aroclor 1248
5.043	292153	250280	0.857	1.35	
5.123	451274	397494	0.881	2.09	6 Aroclor 1248
5.186	479215	432919	0.903	2.22	
5.246	709822	615289	0.867	3.29	7 Aroclor 1254
5.297	541231	469349	0.867	2.51	
5.370	55159	53947	0.978	0.25	
5.394	158634	129315	0.815	0.73	
5.449	207745	187914	0.905	0.96	
5.494	487488	441341	0.905	2.26	7 Aroclor 1254
5.534	316138	268309	0.849	1.46	
5.567	77749	74546	0.959	0.36	
5.596	902186	814677	0.903	4.18	7 Aroclor 1254
5.663	43142	37329	0.865	0.20	
5.691	118233	104404	0.883	0.54	
5.761	239977	227405	0.948	1.11	
5.798	141122	113351	0.803	0.65	
5.828	174621	137160	0.785	0.81	
5.876	1033639	819479	0.793	4.79	
5.971	110588	85366	0.772	0.51	
6.017	104503	78151	0.748	0.48	
6.079	187928	167752	0.893	0.87	
6.112	446326	375431	0.841	2.07	7 Aroclor 1254
6.142	616189	508008	0.824	2.85	
6.255	157731	94133	0.597	0.73	
6.314	51571	57305	1.111	0.23	
6.328	89119	72651	0.815	0.41	
6.387	896459	770702	0.860	4.15	7 Aroclor 1254
6.419	84094	80846	0.961	0.39	
6.461	50788	37123	0.731	0.23	
6.518	110477	86089	0.779	0.51	
6.596	230236	207961	0.903	1.06	
6.623	163216	151901	0.931	0.75	
6.648	60715	61509	1.013	0.28	
6.690	37508	29785	0.794	0.17	
6.747	25993	17375	0.668	0.12	
6.806	83472	74787	0.896	0.38	
6.846	99296	88954	0.896	0.46	
6.887	120062	103440	0.862	0.55	
6.929	61214	43494	0.711	0.28	
7.029	62639	53855	0.860	0.29	
7.090	224184	199522	0.890	1.04	8 Aroclor 1260
7.122	18963	24257	1.279	0.08	
7.204	27488	16395	0.596	0.12	
7.337	136077	120843	0.888	0.63	8 Aroclor 1260
7.367	59920	43762	0.730	0.27	
7.474	83175	76419	0.919	0.38	
7.527	111541	87850	0.788	0.51	8 Aroclor 1260
7.745	10748	11857	1.103	0.04	
7.777	32870	30571	0.930	0.15	
7.814	26390	22168	0.840	0.12	
7.837	33341	20674	0.620	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.984	85981	73303	0.853	0.39	8 Aroclor 1260
8.360	62206	52423	0.843	0.28	
8.438	40942	27978	0.683	0.18	
8.656	774361	707819	0.914	3.59	$ 12 Decachlorobiphenyl
9.002	78545	48479	0.617	0.36	
9.525	106614	66753	0.626	0.49	
	21551539	18721898		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718039.D
Lab Smp Id: 40158013011 Client Smp ID: ND3-170829-01-SPSH-
Inj Date : 07-MAY-2018 23:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013011 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 39
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.550	2.549	0.001	631747	0.00525	52			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	1082404	0.45377	4500	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	658100	0.15494	1500	0.00- 20.00	60.80	BA
4.898	4.898	0.000	481155	0.23620	2400	0.00- 20.00	44.45	BA
4.964	4.963	0.001	1139033	0.20795	2100	0.00- 20.00	105.23	BA
5.123	5.123	0.000	451273	0.11928	1200	0.00- 20.00	41.69	BA
Average of Peak Concentrations =					2300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	709822	0.12586	1200	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	487488	0.10453	1000	0.00- 20.00	68.68	BA
5.595	5.596	-0.001	902185	0.10537	1000	0.00- 20.00	127.10	BA
6.111	6.113	-0.002	446326	0.08401	840	0.00- 20.00	62.88	BA
6.387	6.387	0.000	896458	0.12245	1200	0.00- 20.00	126.29	BA
Average of Peak Concentrations =					1100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.090	7.090	0.000	224183	0.01905	190	0.00- 20.00	27.09	CO
7.337	7.338	-0.001	136076	0.02406	240	0.00- 20.00	15.18	CO
7.527	7.529	-0.002	111541	0.03263	320	0.00- 20.00	12.44	CO
7.984	7.987	-0.003	85980	0.02715	270	0.00- 20.00	9.59	CO
Average of Peak Concentrations =					260			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	774360	0.00581	58			

QC Flag Legend

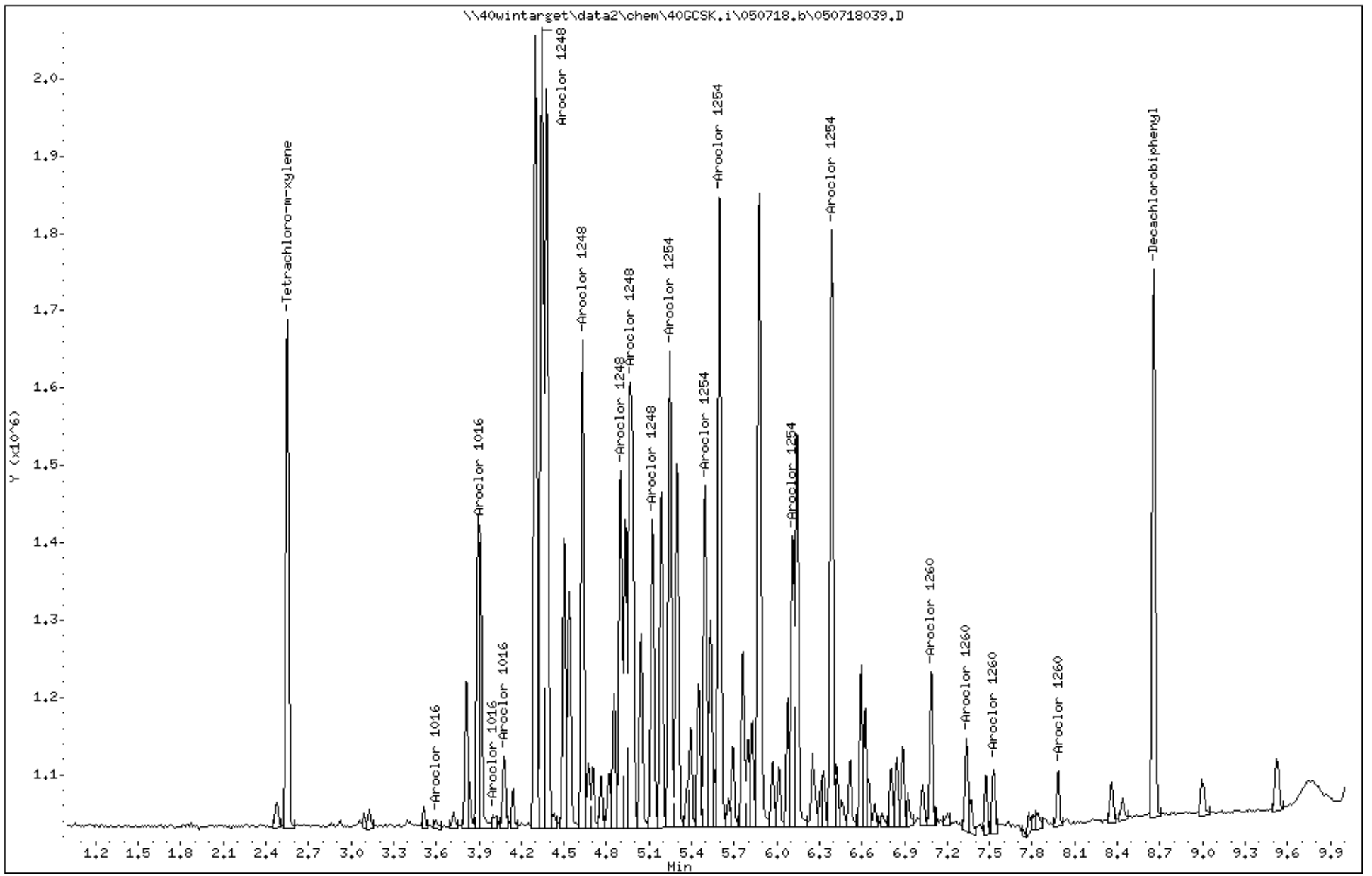
M - Compound response manually integrated.

Review Codes Legend

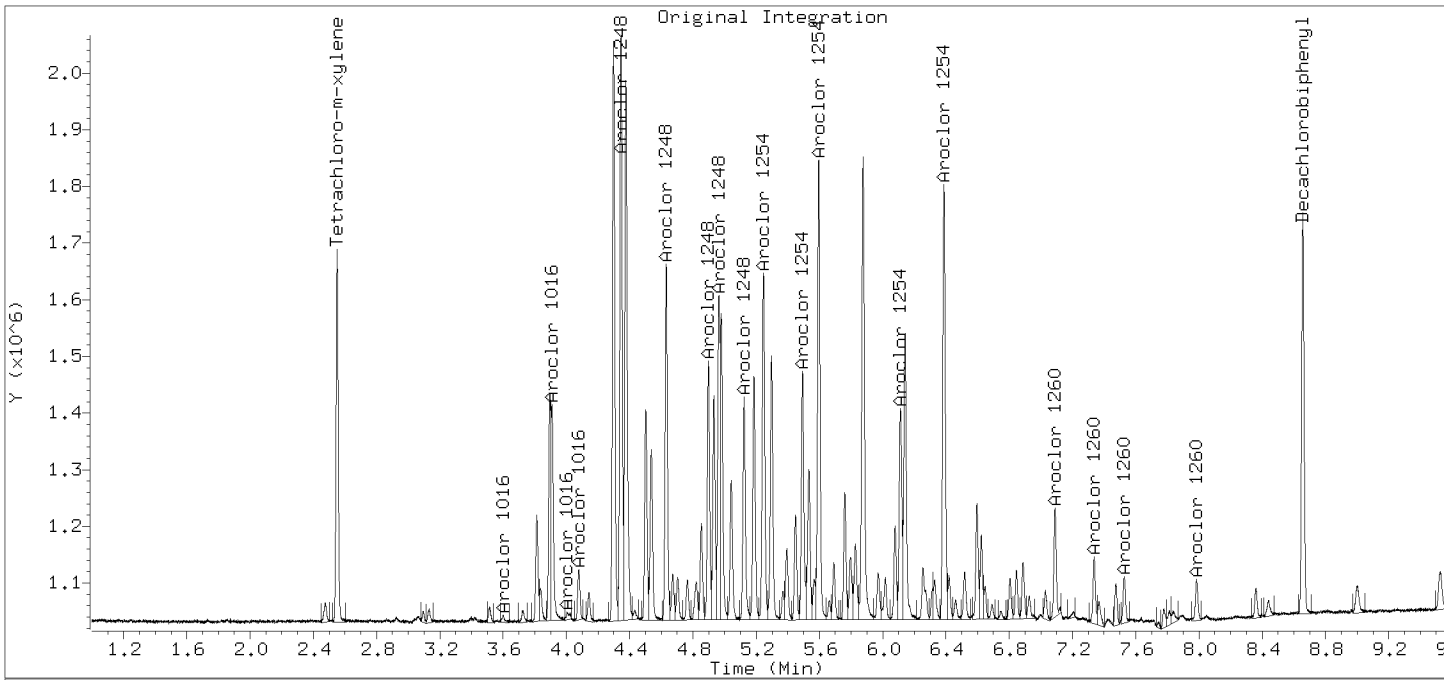
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

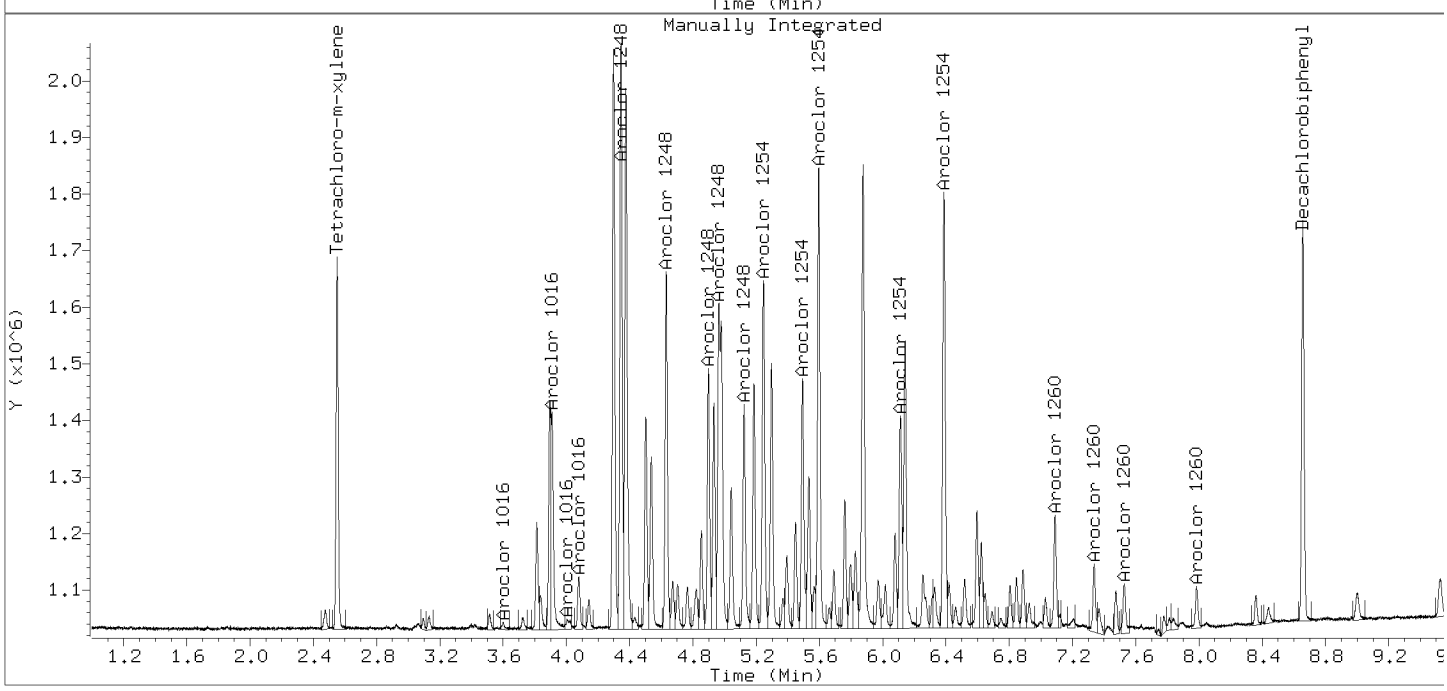
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718039.D
Date : 07-MAY-2018 23:21
Client ID: ND3-170829-01-SPSH-
Sample Info: 40158013011 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718039.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 23:21 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	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	1073806	1082404	BA
Aroclor 1248	1073806	1082404	BA
Aroclor 1248	1073806	1082404	BA
Aroclor 1248	1073806	1082404	BA
Aroclor 1248	1073806	1082404	BA
Aroclor 1254	697277	709822	BA
Aroclor 1254	697277	709822	BA
Aroclor 1254	697277	709822	BA
Aroclor 1254	697277	709822	BA
Aroclor 1254	697277	709822	BA
Aroclor 1260	886754	0	CO
Aroclor 1260	886754	0	CO
Aroclor 1260	886754	0	CO
Aroclor 1260	886754	0	CO
Aroclor 1260	886754	0	CO
Tetrachloro-m-xylene	631747	631747	
Decachlorobiphenyl	774360	774360	

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SAMPLE NO.

ND3-170829-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158013
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158013012
Date Analyzed: 05/08/2018 00:08
Lab File ID: 050718.B\050718042.D
Initial wt/vol: 9.9824 g Final wt/vol: 5 mL Dilution: 15
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<171	U
11104-28-2	PCB-1221 (Aroclor 1221)	<171	U
11141-16-5	PCB-1232 (Aroclor 1232)	<171	U
53469-21-9	PCB-1242 (Aroclor 1242)	<171	U
12672-29-6	PCB-1248 (Aroclor 1248)	2410	
11097-69-1	PCB-1254 (Aroclor 1254)	1090	
11096-82-5	PCB-1260 (Aroclor 1260)	242	J
1336-36-3	PCB, Total	3740	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718042.D
Lab Smp Id: 40158013012 Client Smp ID: ND3-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013012 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 42
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.982	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.476	39732	33694	0.848	0.13		
2.549	768350	799363	1.040	2.69	$ 2 Tetrachloro-m-xylene	
3.062	10524	12534	1.191	0.03		
3.094	22566	22470	0.996	0.07		
3.132	35004	31408	0.897	0.12		
3.514	40259	35782	0.889	0.14		
3.595	12037	14009	1.164	0.04		
3.723	33718	27066	0.803	0.11		
3.813	246852	241233	0.977	0.86		
3.836	85098	73971	0.869	0.29		
3.896	474135	515259	1.087	1.66		
3.907	529938	506812	0.956	1.86		
4.005	37553	24039	0.640	0.13		
4.077	143049	123536	0.864	0.50		
4.142	86364	72055	0.834	0.30		
4.298	1474526	1370777	0.930	5.17		
4.345	1509275	1417345	0.939	5.29	6 Aroclor 1248	BA
4.375	1558179	1329117	0.853	5.92		
4.434	40146	26518	0.661	0.14		
4.501	554710	514983	0.928	1.94		
4.538	472773	411770	0.871	1.65		
4.631	885702	850379	0.960	3.10	6 Aroclor 1248	BA
4.672	125503	114393	0.911	0.44		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.703	129870	108532	0.836	0.45	
4.764	113027	99755	0.883	0.39	
4.819	131731	96297	0.731	0.46	
4.852	239976	219011	0.913	0.84	
4.897	652115	613964	0.941	2.28	6 Aroclor 1248
4.933	546109	522465	0.957	1.91	
4.964	1544686	821020	0.532	5.42	6 Aroclor 1248
5.042	388629	323327	0.832	1.36	
5.123	604646	552446	0.914	2.12	6 Aroclor 1248
5.186	642224	580050	0.903	2.25	
5.245	943922	827243	0.876	3.31	7 Aroclor 1254
5.296	729535	637614	0.874	2.56	
5.369	78789	78487	0.996	0.27	
5.393	206151	169402	0.822	0.72	
5.449	281723	259032	0.919	0.98	
5.493	657664	601891	0.915	2.30	7 Aroclor 1254
5.533	427757	358354	0.838	1.50	
5.567	93747	95241	1.016	0.32	
5.595	1225176	1082248	0.883	4.30	7 Aroclor 1254
5.662	55152	47864	0.868	0.19	
5.692	157622	141397	0.897	0.55	
5.761	307978	283074	0.919	1.08	
5.795	180945	146361	0.809	0.63	
5.827	242205	183091	0.756	0.85	
5.876	1368950	1084792	0.792	4.80	
5.971	153383	112774	0.735	0.53	
6.016	125826	100208	0.796	0.44	
6.078	242264	222342	0.918	0.85	
6.112	602177	521629	0.866	2.11	7 Aroclor 1254
6.141	796799	668826	0.839	2.79	
6.255	192064	117842	0.614	0.67	
6.312	65311	72878	1.116	0.22	
6.327	113679	89084	0.784	0.39	
6.387	1162717	966163	0.831	4.08	7 Aroclor 1254
6.418	110932	100398	0.905	0.38	
6.460	61061	46077	0.755	0.21	
6.518	145134	112599	0.776	0.50	
6.595	286483	267611	0.934	1.00	
6.623	214592	190234	0.886	0.75	
6.646	78010	78910	1.012	0.27	
6.690	43841	35081	0.800	0.15	
6.747	32251	22245	0.690	0.11	
6.806	111965	94942	0.848	0.39	
6.845	126409	114319	0.904	0.44	
6.887	148956	137533	0.923	0.52	
6.926	76772	54062	0.704	0.26	
7.029	76413	67380	0.882	0.26	
7.090	288680	261802	0.907	1.01	8 Aroclor 1260
7.118	33622	29065	0.864	0.11	
7.199	31445	20831	0.662	0.11	
7.337	170153	148038	0.870	0.59	8 Aroclor 1260
7.365	79449	56640	0.713	0.27	
7.475	104040	94334	0.907	0.36	
7.527	142902	112454	0.787	0.50	8 Aroclor 1260
7.745	16453	17521	1.065	0.05	
7.779	44912	40540	0.903	0.15	
7.814	28924	25779	0.891	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.837	35864	26599	0.742	0.12	
7.881	16056	13650	0.850	0.05	
7.985	102600	90731	0.884	0.36	8 Aroclor 1260
8.359	76839	66615	0.867	0.26	
8.438	46593	30500	0.655	0.16	
8.656	980396	884178	0.902	3.44	$ 12 Decachlorobiphenyl
9.000	75015	46304	0.617	0.26	
9.523	103132	63710	0.618	0.36	
	28480436	24723899		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718042.D
Lab Smp Id: 40158013012 Client Smp ID: ND3-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158013012 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 42
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.982	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	768349	0.00638	48			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1509275	0.63273	4800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	885701	0.20853	1600	0.00- 20.00	58.68	BA
4.897	4.898	-0.001	652114	0.32013	2400	0.00- 20.00	43.21	BA
4.964	4.963	0.001	1544686	0.28201	2100	0.00- 20.00	102.35	BA
5.122	5.123	-0.001	604646	0.15982	1200	0.00- 20.00	40.06	BA
Average of Peak Concentrations =					2400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	943922	0.16737	1200	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	657664	0.14102	1000	0.00- 20.00	69.67	BA
5.595	5.596	-0.001	1225175	0.14309	1100	0.00- 20.00	129.80	BA
6.111	6.113	-0.002	602176	0.11334	850	0.00- 20.00	63.80	BA
6.387	6.387	0.000	1162717	0.15882	1200	0.00- 20.00	123.18	BA
Average of Peak Concentrations =					1100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.089	7.090	-0.001	288680	0.02453	180	0.00- 20.00	24.83	BA
7.337	7.338	-0.001	170153	0.03008	230	0.00- 20.00	14.63	BA
7.526	7.529	-0.003	142901	0.04180	310	0.00- 20.00	12.29	BA
7.985	7.987	-0.002	102600	0.03240	240	0.00- 20.00	8.82	BA
Average of Peak Concentrations =					240			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	980396	0.00736	55			

QC Flag Legend

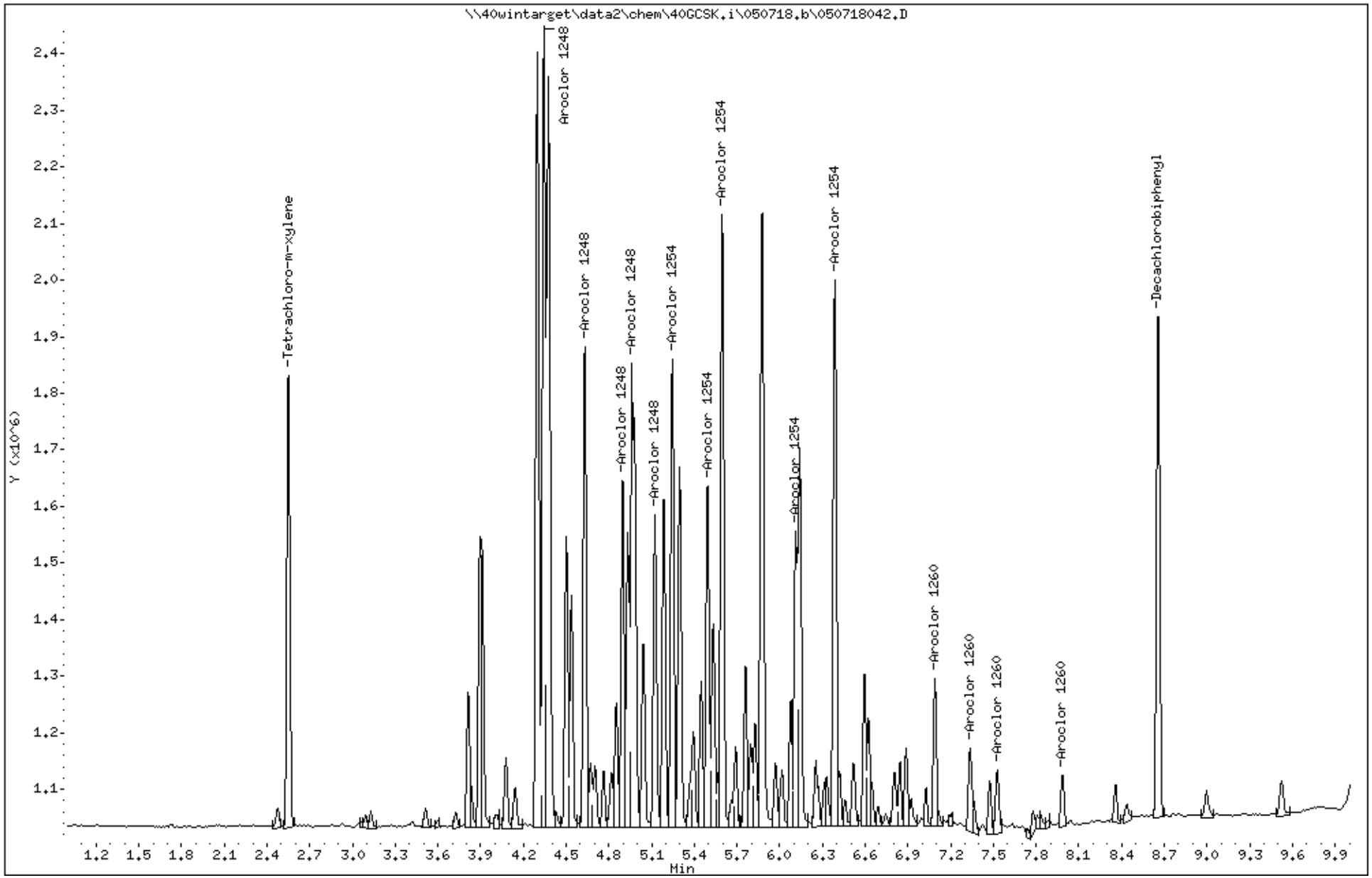
M - Compound response manually integrated.

Review Codes Legend

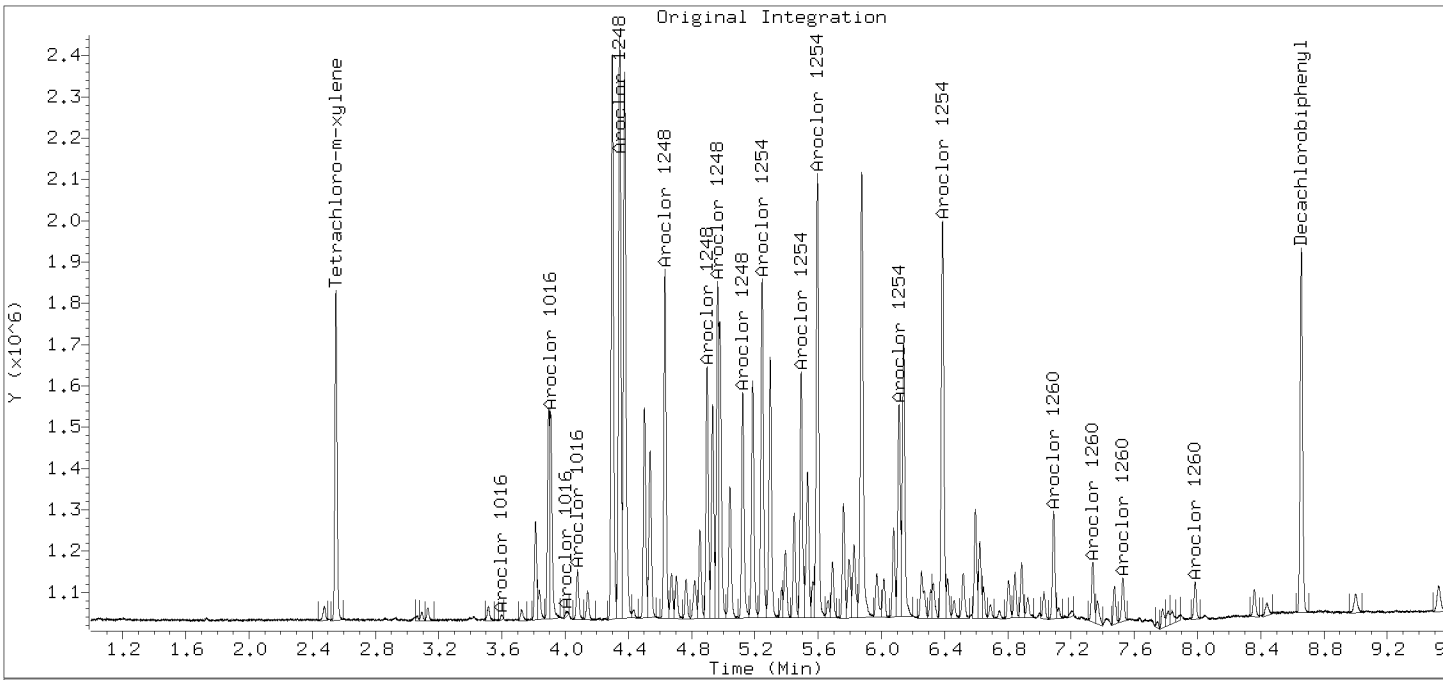
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

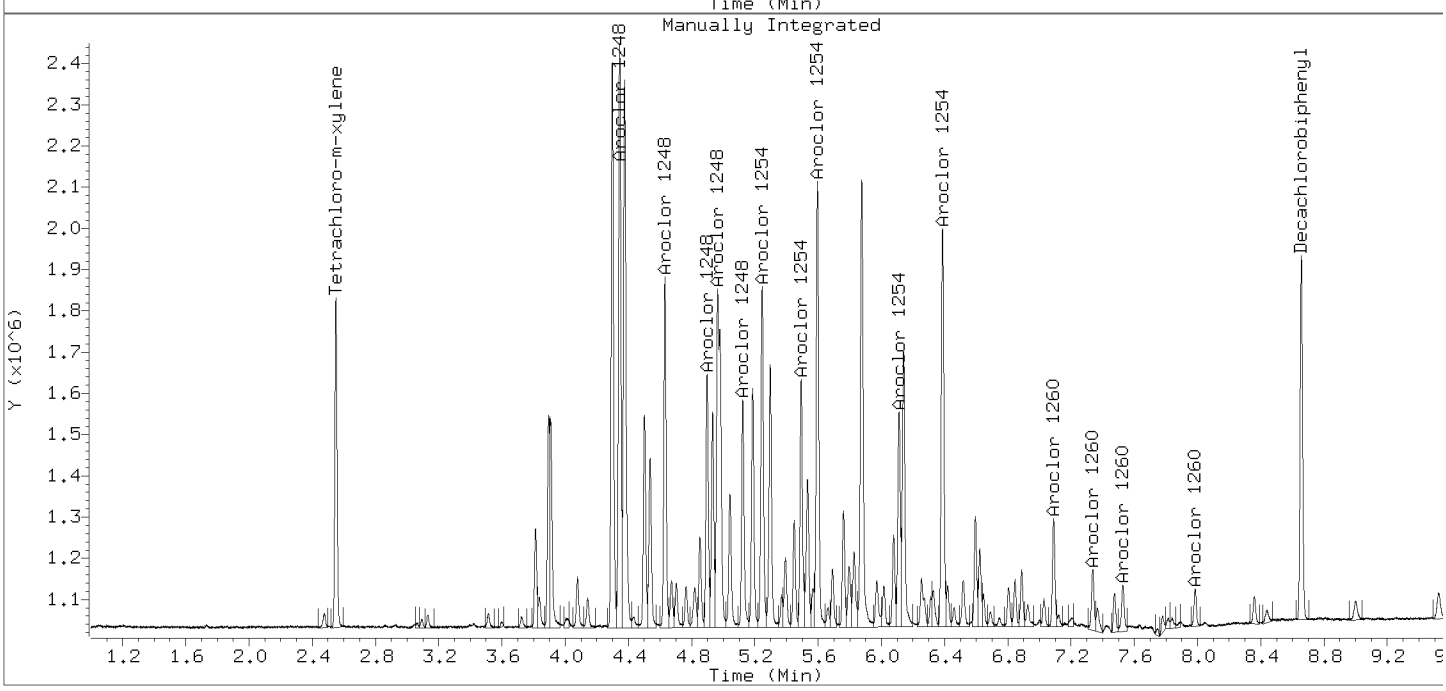
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718042.D
Date : 08-MAY-2018 00:08
Client ID: ND3-170829-01-SPSH-
Sample Info: 40158013012 x15,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718042.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 00:08 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158013012





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	1493249	1509275	BA
Aroclor 1248	1493249	1509275	BA
Aroclor 1248	1493249	1509275	BA
Aroclor 1248	1493249	1509275	BA
Aroclor 1248	1493249	1509275	BA
Aroclor 1254	926008	943922	BA
Aroclor 1254	926008	943922	BA
Aroclor 1254	926008	943922	BA
Aroclor 1254	926008	943922	BA
Aroclor 1254	926008	943922	BA
Aroclor 1260	1151838	0	BA
Aroclor 1260	1151838	0	BA
Aroclor 1260	1151838	0	BA
Aroclor 1260	1151838	0	BA
Aroclor 1260	1151838	0	BA
Tetrachloro-m-xylene	768349	768349	
Decachlorobiphenyl	980396	980396	

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PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1016	1	Averaged	3346700.00	3270300.00	3026998.00	2916970.00	2843185.00
Aroclor 1016	2	Averaged	3361310.00	3225075.00	3064774.00	2953430.00	2890423.00
Aroclor 1016	3	Averaged	9619090.00	9294970.00	8629258.00	8432580.00	8333033.00
Aroclor 1016	4	Averaged	4072990.00	3972810.00	3750126.00	3581221.25	3523970.00
Aroclor 1016	5	Averaged	2912980.00	2694260.00	2551278.00	2433447.50	2424781.00
Aroclor 1221	1	Averaged	1168840.00	1110755.00	980478.000	981937.500	964273.000
Aroclor 1221	2	Averaged	612180.000	587450.000	526622.000	511427.500	501535.000
Aroclor 1221	3	Averaged	1505110.00	1446635.00	1316246.00	1333917.50	1314775.00
Aroclor 1221	4	Averaged	1181440.00	1150255.00	1038526.00	1067413.75	1091213.00
Aroclor 1221	5	Averaged	3492190.00	3470535.00	3167038.00	3088411.25	3058814.00
Aroclor 1242	1	Averaged	2772560.00	2688000.00	2505132.00	2371062.50	2329239.00
Aroclor 1242	2	Averaged	2739500.00	2600755.00	2506348.00	2392166.25	2361398.00
Aroclor 1242	3	Averaged	7695890.00	7473100.00	6971326.00	6735328.75	6706645.00
Aroclor 1242	4	Averaged	3287540.00	3169245.00	3017986.00	2875101.25	2857801.00
Aroclor 1242	5	Averaged	2247420.00	2077595.00	2062930.00	1928282.50	1922507.00
Aroclor 1248	1	Averaged	2522640.00	2478140.00	2346396.00	2184111.25	2183582.00
Aroclor 1248	2	Averaged	4441400.00	4466680.00	4104774.00	3847133.75	3891542.00
Aroclor 1248	3	Averaged	2175950.00	2100970.00	2034380.00	1911980.00	1927121.00
Aroclor 1248	4	Averaged	5384910.00	5302865.00	5054976.00	4695606.25	4748871.00
Aroclor 1248	5	Averaged	3757360.00	3770200.00	3588002.00	3386248.75	3440920.00
Aroclor 1254	1	Averaged	5783370.00	5652575.00	5120584.00	4858101.25	4761607.00
Aroclor 1254	2	Averaged	4616750.00	4581855.00	4225042.00	4064631.25	4016994.00
Aroclor 1254	3	Averaged	8435240.00	8286960.00	7623568.00	7277021.25	7207530.00
Aroclor 1254	4	Averaged	5140880.00	5151350.00	4826428.00	4638268.75	4591491.00
Aroclor 1254	5	Averaged	7015020.00	6981970.00	6368818.00	6122333.75	6047377.00
Aroclor 1260	1	Averaged	9569990.00	9323545.00	8657528.00	8388552.50	8372147.00
Aroclor 1260	2	Averaged	10746610.0	10429350.0	9816406.00	9526972.50	9552528.00
Aroclor 1260	3	Averaged	5052370.00	4986225.00	4721308.00	4577403.75	4561709.00
Aroclor 1260	4	Averaged	3131020.00	3037915.00	2887698.00	2771190.00	2747730.00

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1260	5	Averaged	2853590.00	2718235.00	2625044.00	2511683.75	2485127.00
Decachlorobiphenyl (S)		Averaged	125223400.	114228350.	106255020.	101602250.	100490933.
Tetrachloro-m-xylene		Averaged	126550100.	124974300.	121144740.	121809550.	121996840.

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1016	1	Averaged	7.12			3080830.60	
Aroclor 1016	2	Averaged	6.26			3099002.40	
Aroclor 1016	3	Averaged	6.38			8861786.20	
Aroclor 1016	4	Averaged	6.32			3780223.45	
Aroclor 1016	5	Averaged	7.86			2603349.30	
Aroclor 1221	1	Averaged	8.88			1041256.70	
Aroclor 1221	2	Averaged	8.95			547842.90	
Aroclor 1221	3	Averaged	6.31			1383336.70	
Aroclor 1221	4	Averaged	5.33			1105769.55	
Aroclor 1221	5	Averaged	6.45			3255397.65	
Aroclor 1242	1	Averaged	7.64			2533198.70	
Aroclor 1242	2	Averaged	6.15			2520033.45	
Aroclor 1242	3	Averaged	6.27			7116457.95	
Aroclor 1242	4	Averaged	6.12			3041534.65	
Aroclor 1242	5	Averaged	6.50			2047746.90	
Aroclor 1248	1	Averaged	6.78			2342973.85	
Aroclor 1248	2	Averaged	7.08			4150305.95	
Aroclor 1248	3	Averaged	5.55			2030080.20	
Aroclor 1248	4	Averaged	6.21			5037445.65	
Aroclor 1248	5	Averaged	4.91			3588546.15	
Aroclor 1254	1	Averaged	8.82			5235247.45	
Aroclor 1254	2	Averaged	6.58			4301054.45	
Aroclor 1254	3	Averaged	7.31			7766063.85	
Aroclor 1254	4	Averaged	5.48			4869683.55	
Aroclor 1254	5	Averaged	7.13			6507103.75	
Aroclor 1260	1	Averaged	6.23			8862352.50	
Aroclor 1260	2	Averaged	5.46			10014373.30	
Aroclor 1260	3	Averaged	4.78			4779803.15	
Aroclor 1260	4	Averaged	5.71			2915110.60	

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1260	5	Averaged	5.76			2638735.95	
Decachlorobiphenyl (S)		Averaged	9.39			109559990.6	
Tetrachloro-m-xylene		Averaged	1.89			123295106.0	

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.318	3.317	3.317	3.317	3.318	3.318	3.284	3.352
Aroclor 1016	2	3.513	3.513	3.512	3.512	3.512	3.512	3.478	3.546
Aroclor 1016	3	3.826	3.826	3.826	3.826	3.826	3.826	3.792	3.86
Aroclor 1016	4	3.928	3.929	3.928	3.929	3.928	3.929	3.895	3.963
Aroclor 1016	5	3.995	3.994	3.994	3.995	3.994	3.994	3.96	4.028
Aroclor 1221	1	1.803	1.804	1.804	1.804	1.806	1.804	1.77	1.838
Aroclor 1221	2	2.406	2.407	2.407	2.407	2.407	2.407	2.373	2.441
Aroclor 1221	3	2.687	2.688	2.688	2.688	2.688	2.688	2.654	2.722
Aroclor 1221	4	2.789	2.789	2.79	2.789	2.789	2.789	2.755	2.823
Aroclor 1221	5	2.851	2.851	2.851	2.851	2.851	2.851	2.817	2.885
Aroclor 1242	1	3.318	3.318	3.317	3.318	3.318	3.318	3.284	3.352
Aroclor 1242	2	3.513	3.513	3.513	3.513	3.513	3.513	3.479	3.547
Aroclor 1242	3	3.826	3.826	3.827	3.827	3.827	3.827	3.793	3.861
Aroclor 1242	4	3.928	3.929	3.929	3.93	3.929	3.929	3.895	3.963
Aroclor 1242	5	3.995	3.994	3.995	3.995	3.994	3.995	3.961	4.029
Aroclor 1248	1	4.261	4.261	4.261	4.261	4.261	4.261	4.227	4.295
Aroclor 1248	2	4.546	4.545	4.545	4.545	4.545	4.546	4.512	4.58
Aroclor 1248	3	4.814	4.813	4.813	4.813	4.813	4.812	4.778	4.846
Aroclor 1248	4	4.879	4.878	4.879	4.878	4.879	4.879	4.845	4.913
Aroclor 1248	5	5.037	5.036	5.037	5.038	5.037	5.038	5.004	5.072
Aroclor 1254	1	5.163	5.162	5.163	5.162	5.163	5.162	5.128	5.196
Aroclor 1254	2	5.408	5.407	5.407	5.407	5.407	5.408	5.374	5.442
Aroclor 1254	3	5.51	5.51	5.51	5.509	5.51	5.51	5.476	5.544
Aroclor 1254	4	6.026	6.026	6.026	6.027	6.027	6.027	5.993	6.061
Aroclor 1254	5	6.299	6.299	6.299	6.299	6.299	6.299	6.265	6.333
Aroclor 1260	1	6.3	6.3	6.299	6.3	6.299	6.3	6.266	6.334
Aroclor 1260	2	7.006	7.006	7.005	7.005	7.005	7.006	6.972	7.04
Aroclor 1260	3	7.252	7.252	7.251	7.252	7.251	7.251	7.217	7.285

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1260	4	7.444	7.443	7.443	7.443	7.443	7.443	7.409	7.477
Aroclor 1260	5	7.902	7.9	7.901	7.901	7.9	7.901	7.867	7.935
Decachlorobiphenyl (S)		8.572	8.572	8.571	8.571	8.571	8.571	8.537	8.605
Tetrachloro-m-xylene		2.485	2.484	2.484	2.484	2.485	2.484	2.45	2.518

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: 40GCSJ GC Column: Col 1 SDG No.: 40158013

Calibration Date(s): 03/06/2018 Calibration Time(s): 11:50

LAB FILE ID

CAL3S = 030618.B\030618008.D

COMPOUND	AMOUNT	PEAK	RT	RT WINDOW		RESPONSE FACTOR
				FROM	TO	
Aroclor 1232	.5	1	2.851	2.817	2.885	2500024.00
Aroclor 1232	.5	2	3.513	3.479	3.547	1339782.00
Aroclor 1232	.5	3	3.827	3.793	3.861	3749726.00
Aroclor 1232	.5	4	3.929	3.895	3.963	1606492.00
Aroclor 1232	.5	5	3.995	3.961	4.029	1091876.00

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-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 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
1.183	64094	46184	0.721	0.24		
1.429	37762	31672	0.839	0.14		
1.535	16372	12525	0.765	0.06		
1.688	12215	10878	0.891	0.04		
1.804	291016	252430	0.867	1.10		
2.011	33236	24341	0.732	0.12		
2.198	82778	71506	0.864	0.31		
2.407	191146	142081	0.743	0.72		
2.485	5780151	5532286	0.957	22.35		
2.688	419741	347465	0.828	1.59		
2.789	391882	367897	0.939	1.48		
2.851	1250012	1144522	0.916	4.74	4 Aroclor 1232	BA
3.028	21736	20469	0.942	0.08		
3.055	85135	77802	0.914	0.32		
3.280	70307	52213	0.743	0.26		
3.319	723460	656407	0.907	2.74		
3.344	391395	363151	0.928	1.48		
3.434	120283	103424	0.860	0.45		
3.514	669892	480513	0.717	2.54	4 Aroclor 1232	BA
3.611	20898	19814	0.948	0.07		
3.698	27644	23229	0.840	0.10		
3.733	173570	179973	1.037	0.65		
3.757	122922	116095	0.944	0.46		
3.827	1874863	1087503	0.580	7.12	4 Aroclor 1232	BA
3.929	803247	685069	0.853	3.05	4 Aroclor 1232	BA
3.995	545938	536580	0.983	2.07	4 Aroclor 1232	BA
4.059	141928	130174	0.917	0.53		
4.137	62125	51170	0.824	0.23		
4.216	393609	374181	0.951	1.49		
4.261	373167	361789	0.970	1.41		
4.294	162815	169097	1.039	0.61		
4.310	204739	187151	0.914	0.77		
4.371	21919	15566	0.710	0.08		
4.418	536617	502916	0.937	2.03		
4.452	418871	298669	0.713	1.59		
4.546	683890	623608	0.912	2.59		
4.618	163410	151749	0.929	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	14650	12034	0.821	0.05	
4.730	43779	30964	0.707	0.16	
4.769	38954	36822	0.945	0.14	
4.814	304752	292334	0.959	1.15	
4.848	526734	522616	0.992	2.00	
4.880	691689	534310	0.772	2.62	
4.958	81081	59242	0.731	0.30	
5.038	573825	543275	0.947	2.17	
5.099	111947	85321	0.762	0.42	
5.163	131671	111235	0.845	0.50	
5.213	95848	80980	0.845	0.36	
5.307	24699	21694	0.878	0.09	
5.363	86500	72230	0.835	0.32	
5.408	138303	112479	0.813	0.52	
5.447	83276	72672	0.873	0.31	
5.492	30778	35064	1.139	0.11	
5.511	193150	166298	0.861	0.73	
5.605	68006	59493	0.875	0.25	
5.676	16334	15605	0.955	0.06	
5.708	52967	20705	0.391	0.20	
5.793	143283	113467	0.792	0.54	
5.888	27037	15011	0.555	0.10	
6.026	118842	104296	0.878	0.45	
6.056	34574	29464	0.852	0.13	
6.171	24413	14466	0.593	0.09	
6.302	43529	35888	0.824	0.16	
6.447	25328	16811	0.664	0.09	
6.511	16971	13602	0.801	0.06	
7.005	21863	21930	1.003	0.08	
7.129	17051	15791	0.926	0.06	
7.254	11045	10898	0.987	0.04	
7.728	22228	20096	0.904	0.08	
7.779	25468	15517	0.609	0.09	
8.277	43793	37397	0.854	0.16	
8.379	30735	21976	0.715	0.11	
8.573	4915144	4232662	0.861	18.67	
8.944	38971	23332	0.599	0.14	
9.470	37385	22307	0.597	0.14	
9.964	32743	21879	0.668	0.12	
	26324135	22924262		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 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			
2.851	2.851	0.000	1250012	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669891	0.50000	0.50	0.00- 20.00	53.59	BA
3.827	3.827	0.000	1874863	0.50000	0.50	0.00- 20.00	149.99	BA
3.929	3.929	0.000	803246	0.50000	0.50	0.00- 20.00	64.26	BA
3.995	3.995	0.000	545938	0.50000	0.50	0.00- 20.00	43.67	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\40GCSJ.i\030618.b\030618008.D

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

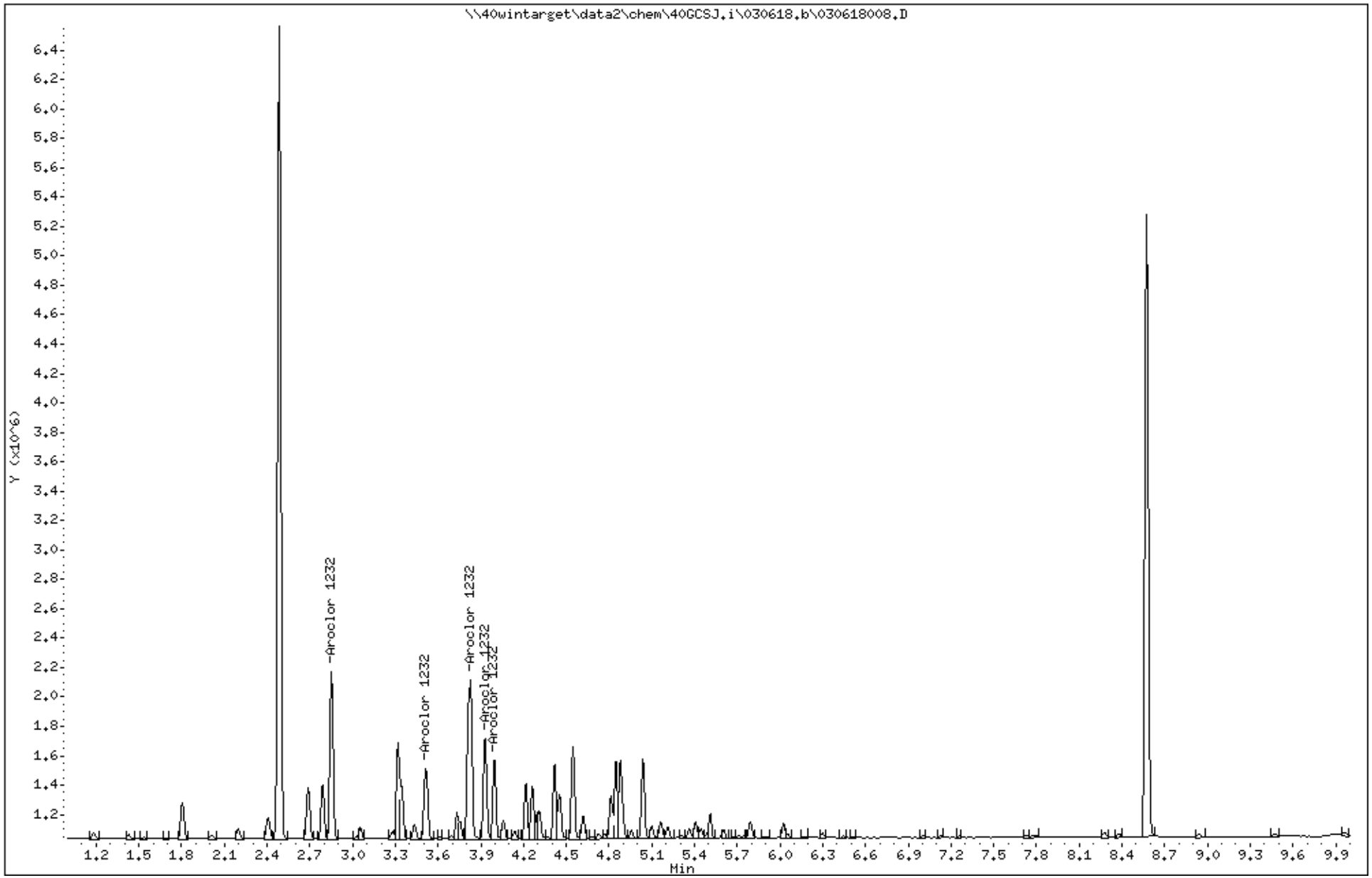
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

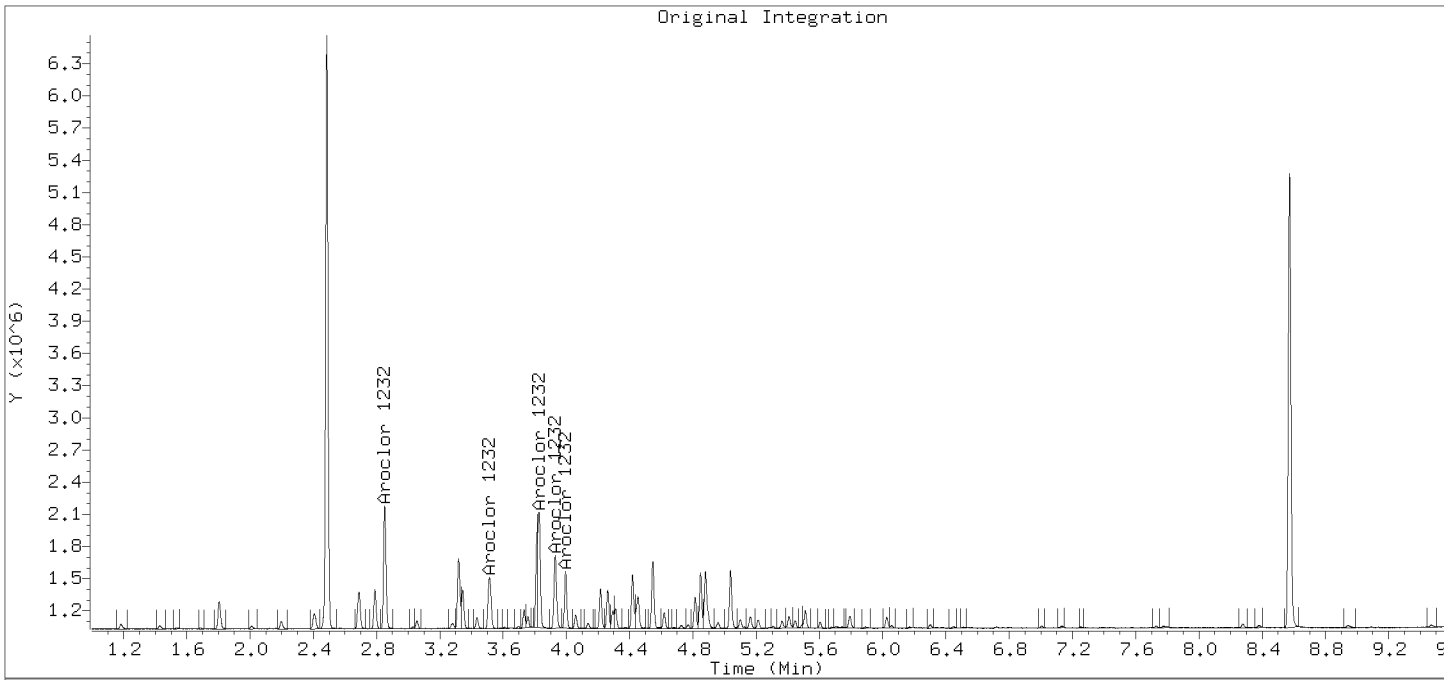
Operator: BLM

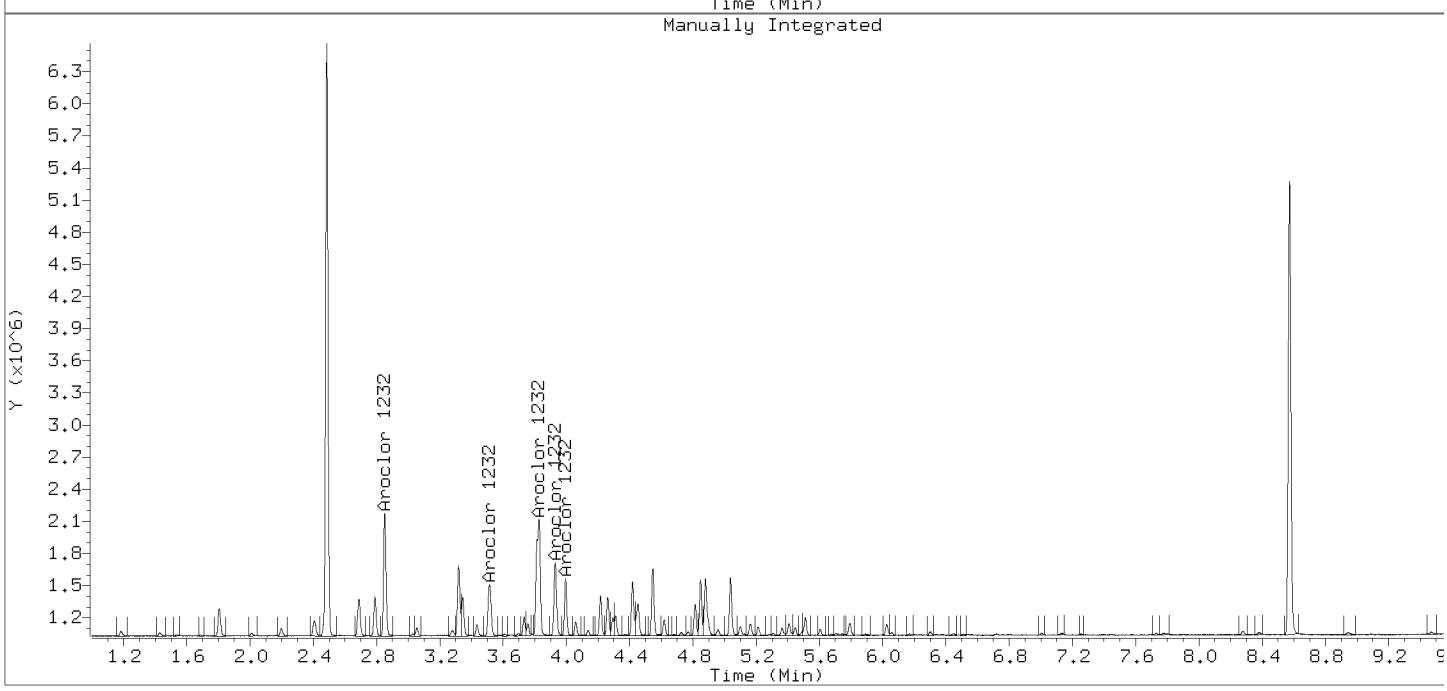
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618008.D (ManInt: NSAR1232.sub Orig: NSAR1232.sub)
Injection Date: 06-MAR-2018 11:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CAL3S





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 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
1.180	13612	11288	0.829	0.38		
1.804	116885	98810	0.845	3.31	1 Aroclor 1221	BA
2.197	36039	30499	0.846	1.02		
2.407	61218	44733	0.731	1.73	1 Aroclor 1221	BA
2.485	1172586	1134895	0.968	33.37		
2.688	150512	119908	0.797	4.27	1 Aroclor 1221	BA
2.790	118144	107550	0.910	3.35	1 Aroclor 1221	BA
2.852	349220	309600	0.887	9.90	1 Aroclor 1221	BA
3.279	28274	21896	0.774	0.80		
3.325	85123	48119	0.565	2.41		
3.380	10358	5756	0.556	0.29		
3.436	15926	10893	0.684	0.45		
3.513	38645	25267	0.654	1.09		
3.733	9954	10584	1.063	0.28		
3.817	38159	24082	0.631	1.08		
3.928	37088	28113	0.758	1.05		
3.996	22534	20384	0.905	0.63		
4.260	9635	9376	0.973	0.27		
4.546	10833	12359	1.141	0.30		
4.881	15313	10912	0.713	0.43		
5.040	11422	9410	0.824	0.32		
8.278	12362	11919	0.964	0.35		
8.380	10282	8381	0.815	0.29		
8.572	1127356	960701	0.852	31.98		
8.936	10000	8119	0.812	0.28		
9.466	13059	9537	0.730	0.37		
	3524537	3093091		100.000		

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 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			
1.803	1.804	-0.001	116884	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	61218	0.10000	0.11	0.00- 20.00	52.38	BA
2.687	2.688	-0.001	150511	0.10000	0.11	0.00- 20.00	128.77	BA
2.789	2.789	0.000	118144	0.10000	0.11	0.00- 20.00	101.08	BA
2.851	2.851	0.000	349219	0.10000	0.11	0.00- 20.00	298.77	BA
Average of Peak Amounts =					0.11000			

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\40GCSJ.i\030618.b\030618010.D

Date : 06-MAR-2018 12:07

Client ID: 1221-CAL1F

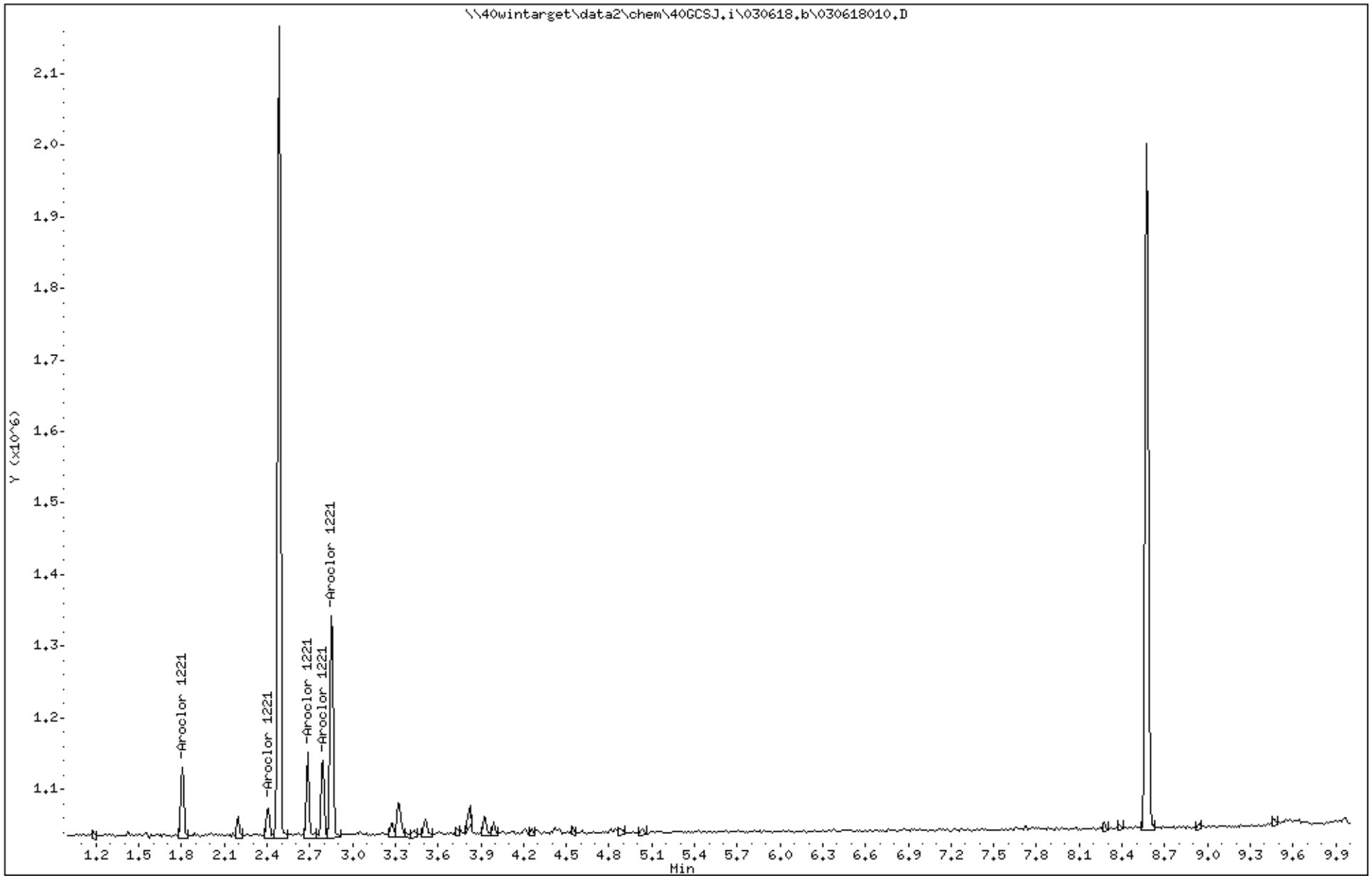
Instrument: 40GCSJ.i

Sample Info: 1221-CAL1F, 188138:1

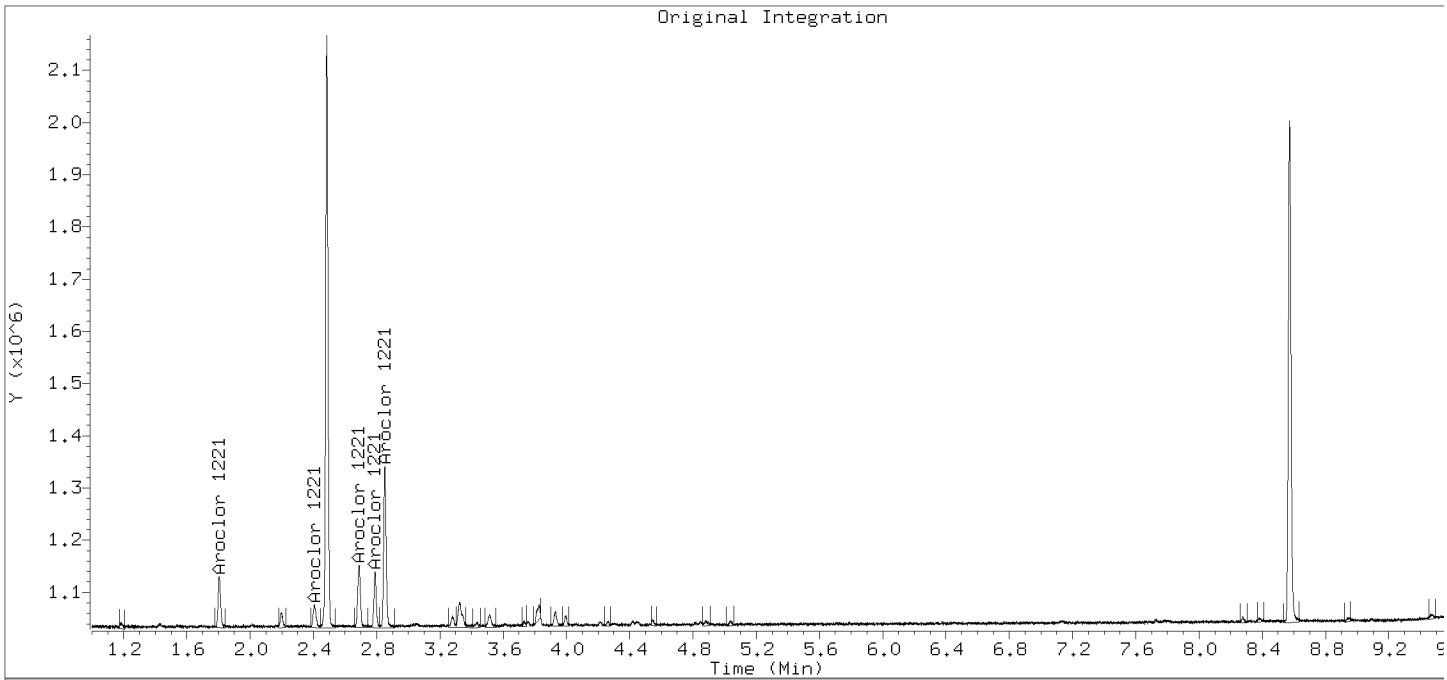
Operator: BLM

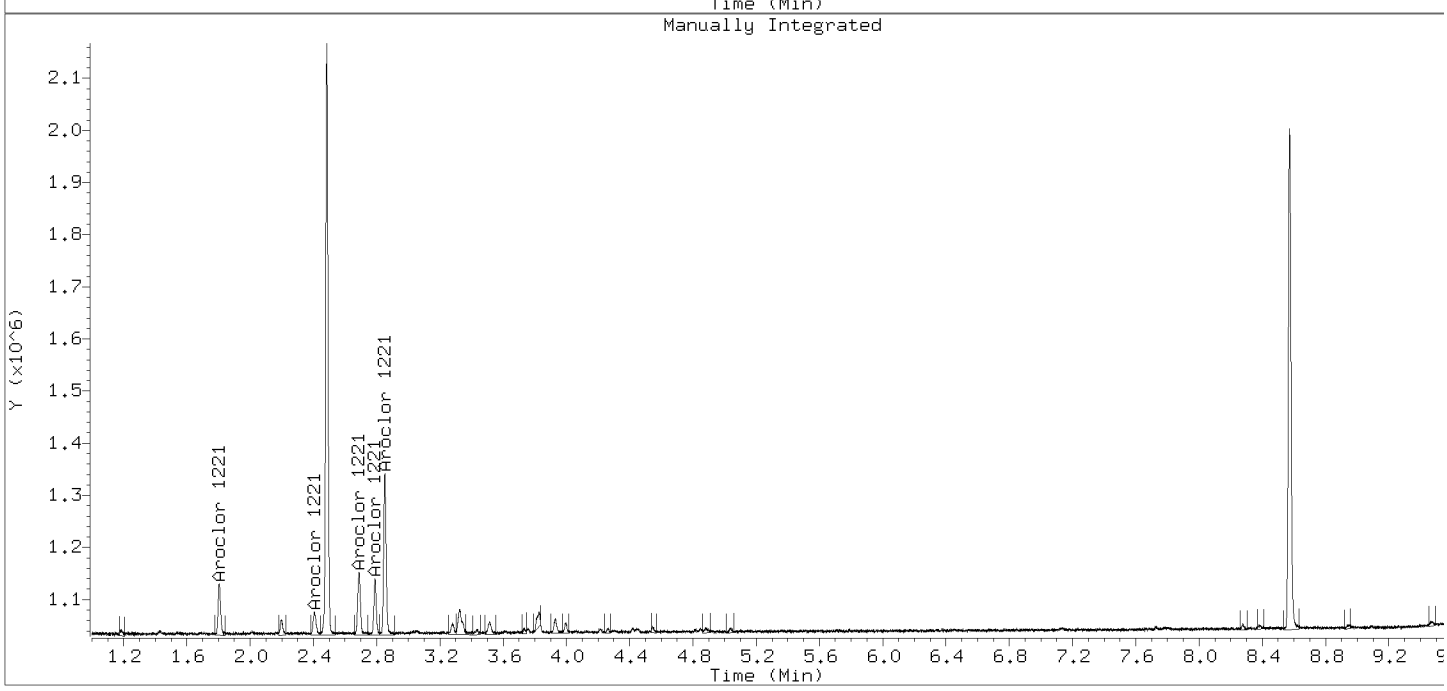
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618010.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 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
1.185	21110	15992	0.758	0.29		
1.432	19890	14202	0.714	0.27		
1.804	222151	196763	0.886	3.10	1 Aroclor 1221	BA
2.006	14074	10640	0.756	0.19		
2.198	66696	59685	0.895	0.93		
2.408	117491	84755	0.721	1.64	1 Aroclor 1221	BA
2.485	2389575	2280739	0.954	33.51		
2.688	289327	237824	0.822	4.03	1 Aroclor 1221	BA
2.790	230052	213818	0.929	3.21	1 Aroclor 1221	BA
2.852	694108	629495	0.907	9.69	1 Aroclor 1221	BA
3.055	24441	15851	0.649	0.34		
3.283	52341	38105	0.728	0.73		
3.322	162359	92875	0.572	2.26		
3.433	17768	16060	0.904	0.24		
3.514	68265	44434	0.651	0.95		
3.610	18983	11562	0.609	0.26		
3.733	17041	17575	1.031	0.23		
3.755	20072	17438	0.869	0.28		
3.827	142441	84122	0.591	1.98		
3.930	69577	57831	0.831	0.97		
3.996	47705	40519	0.849	0.66		
4.216	23635	18011	0.762	0.33		
4.261	14899	13886	0.932	0.20		
4.418	12729	14384	1.130	0.17		
4.547	21625	20493	0.948	0.30		
4.618	11602	9168	0.790	0.16		
4.848	13653	14682	1.075	0.19		
4.880	20209	15214	0.753	0.28		
5.040	16835	15081	0.896	0.23		
7.133	16511	8656	0.524	0.23		
7.728	11846	11710	0.989	0.16		
8.278	23007	17531	0.762	0.32		
8.378	9408	9279	0.986	0.13		
8.573	2192346	1884280	0.859	30.61		
8.940	11831	13025	1.101	0.16		
9.473	27497	16611	0.604	0.38		
9.964	28645	19011	0.664	0.39		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	7161743	6281307		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 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			
1.804	1.804	0.000	222151	0.20000	0.21	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	117490	0.20000	0.21	0.00- 20.00	52.89	BA
2.688	2.688	0.000	289327	0.20000	0.21	0.00- 20.00	130.24	BA
2.789	2.789	0.000	230051	0.20000	0.21	0.00- 20.00	103.56	BA
2.851	2.851	0.000	694107	0.20000	0.21	0.00- 20.00	312.45	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\40GCSJ.i\030618.b\030618012.D

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

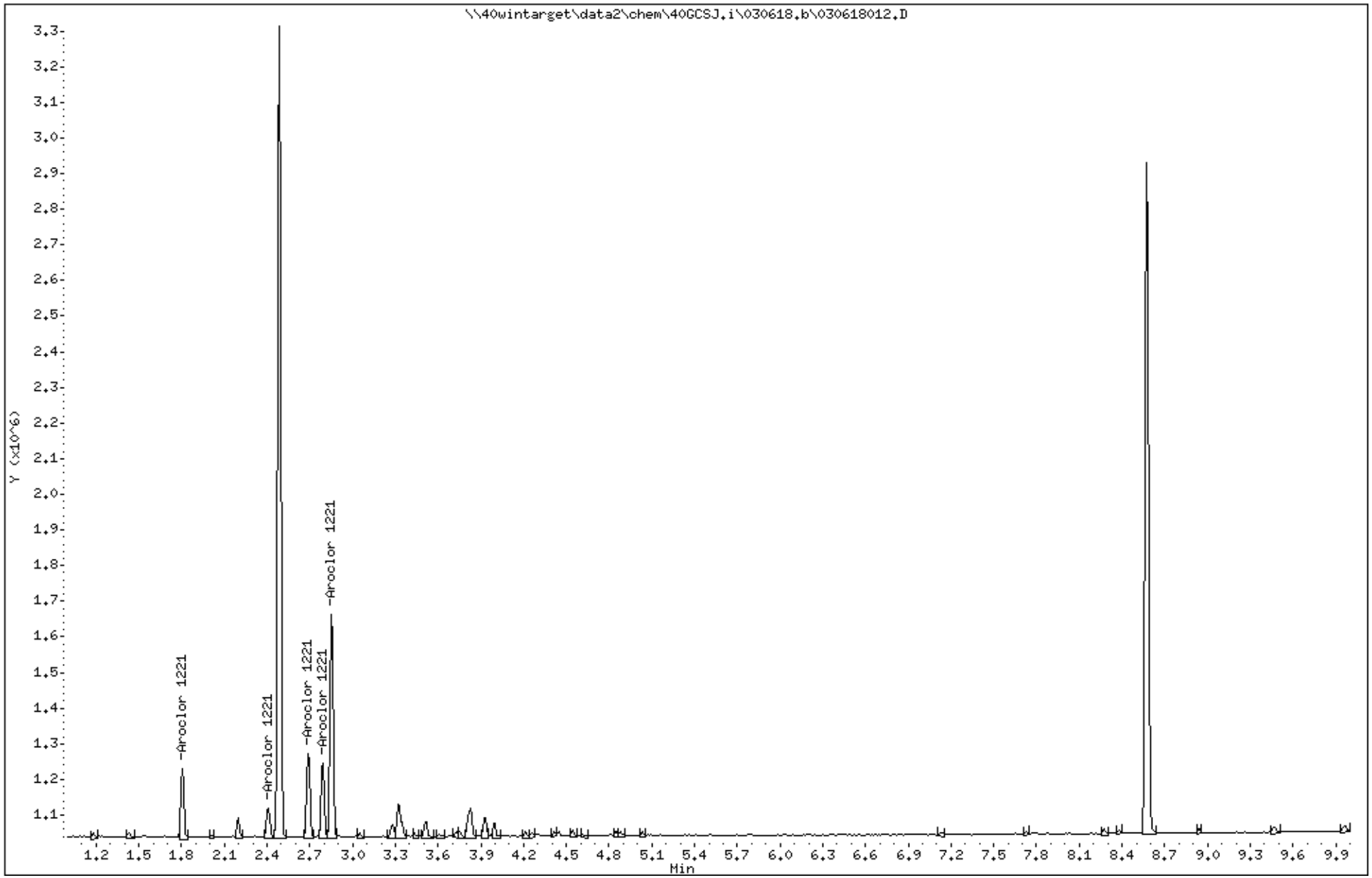
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

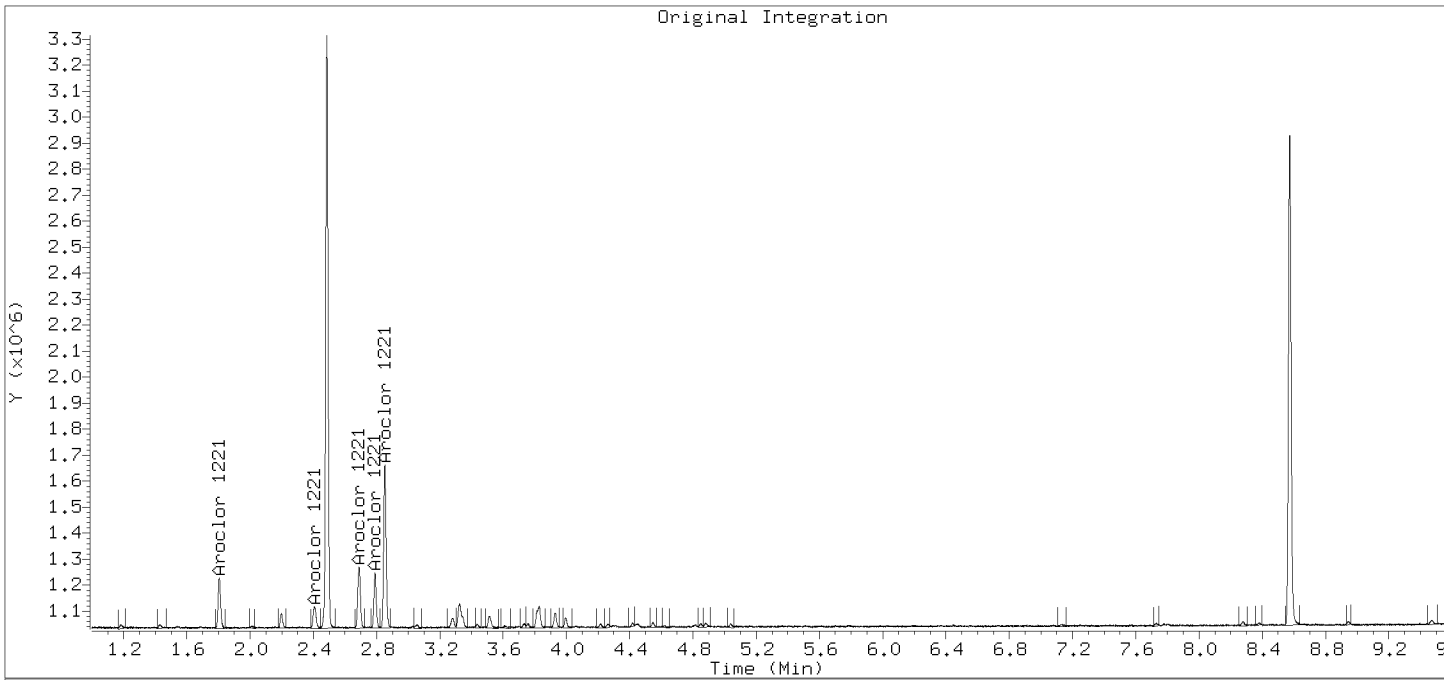
Operator: BLM

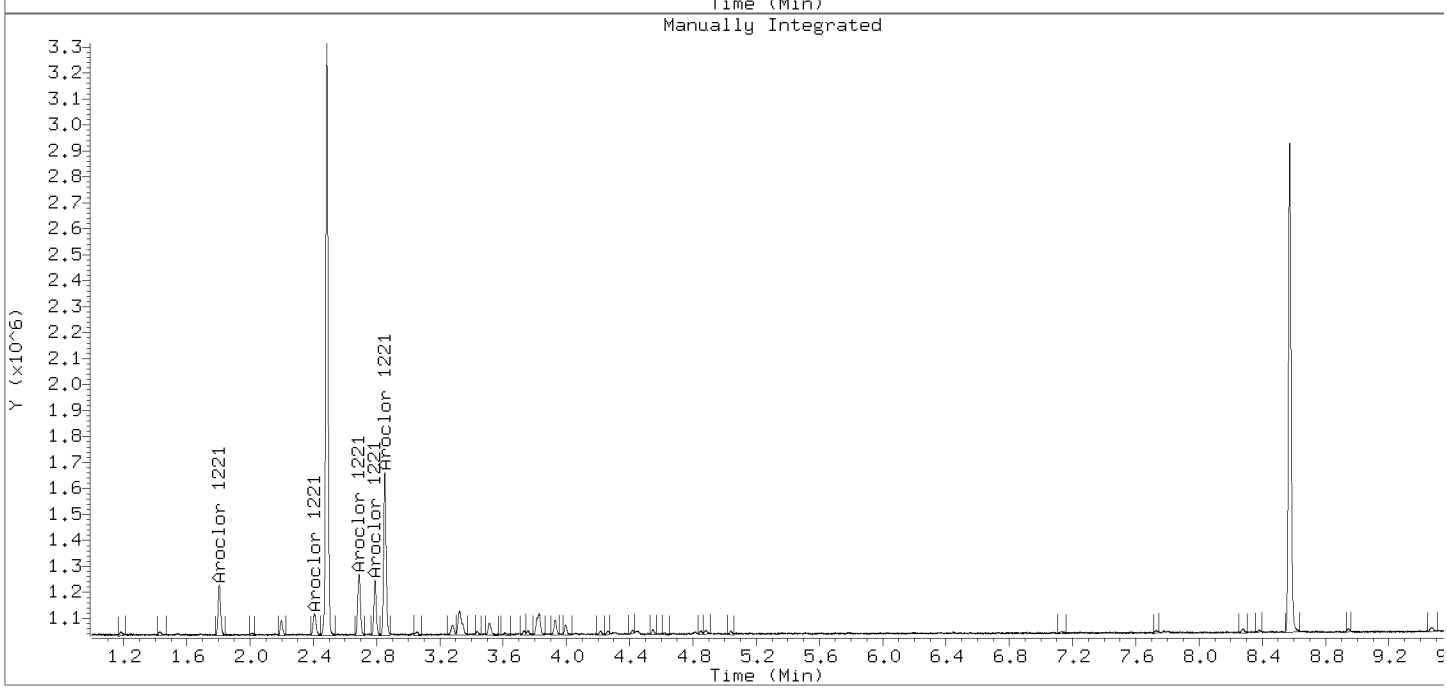
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618012.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL2F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 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
1.184	46886	34819	0.743	0.27		
1.429	37682	34000	0.902	0.22		
1.540	18475	13916	0.753	0.11		
1.686	12215	9839	0.805	0.07		
1.805	490239	441873	0.901	2.92	1 Aroclor 1221	BA
2.010	34778	21164	0.609	0.20		
2.197	148893	131934	0.886	0.88		
2.408	263311	192077	0.729	1.56	1 Aroclor 1221	BA
2.485	5899001	5597678	0.949	35.41		
2.688	658124	555463	0.844	3.92	1 Aroclor 1221	BA
2.790	519264	501204	0.965	3.09	1 Aroclor 1221	BA
2.851	1583519	1422292	0.898	9.43	1 Aroclor 1221	BA
3.030	16777	16577	0.988	0.09		
3.055	39004	30894	0.792	0.23		
3.213	9910	8832	0.891	0.05		
3.281	111839	84209	0.753	0.66		
3.325	365423	215871	0.591	2.17		
3.437	35737	30648	0.858	0.21		
3.514	140459	101998	0.726	0.83		
3.608	20183	17591	0.872	0.12		
3.732	32639	35941	1.101	0.19		
3.757	24903	28786	1.156	0.14		
3.827	309924	194764	0.628	1.84		
3.930	154650	131637	0.851	0.92		
3.996	105091	94784	0.902	0.62		
4.058	20977	14811	0.706	0.12		
4.215	34584	31722	0.917	0.20		
4.262	26916	30192	1.122	0.16		
4.292	16244	12494	0.769	0.09		
4.374	10462	9206	0.880	0.06		
4.418	41223	41705	1.012	0.24		
4.452	49711	28399	0.571	0.29		
4.545	54290	46656	0.859	0.32		
4.616	14003	11847	0.846	0.08		
4.812	21709	20229	0.932	0.12		
4.848	35650	33592	0.942	0.21		
4.882	55103	37630	0.683	0.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.039	36880	30922	0.838	0.21	
5.164	10614	9077	0.855	0.06	
5.703	10136	9806	0.967	0.06	
5.794	11063	9888	0.894	0.06	
6.450	15885	11521	0.725	0.09	
7.126	18110	12799	0.707	0.10	
7.730	23581	20558	0.872	0.14	
7.777	18011	13331	0.740	0.10	
7.801	14860	14996	1.009	0.08	
8.276	48701	37600	0.772	0.29	
8.381	26483	18054	0.682	0.15	
8.573	5020450	4347562	0.866	29.92	
8.945	30595	17805	0.582	0.18	
9.086	11785	9130	0.775	0.07	
9.963	22483	17745	0.789	0.13	
	16779431	14848068		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 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			
1.804	1.804	0.000	490239	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	263311	0.50000	0.48	0.00- 20.00	53.71	BA
2.688	2.688	0.000	658123	0.50000	0.48	0.00- 20.00	134.25	BA
2.790	2.789	0.001	519263	0.50000	0.47	0.00- 20.00	105.92	BA
2.851	2.851	0.000	1583519	0.50000	0.49	0.00- 20.00	323.01	BA
Average of Peak Amounts =					0.47800			

QC Flag Legend

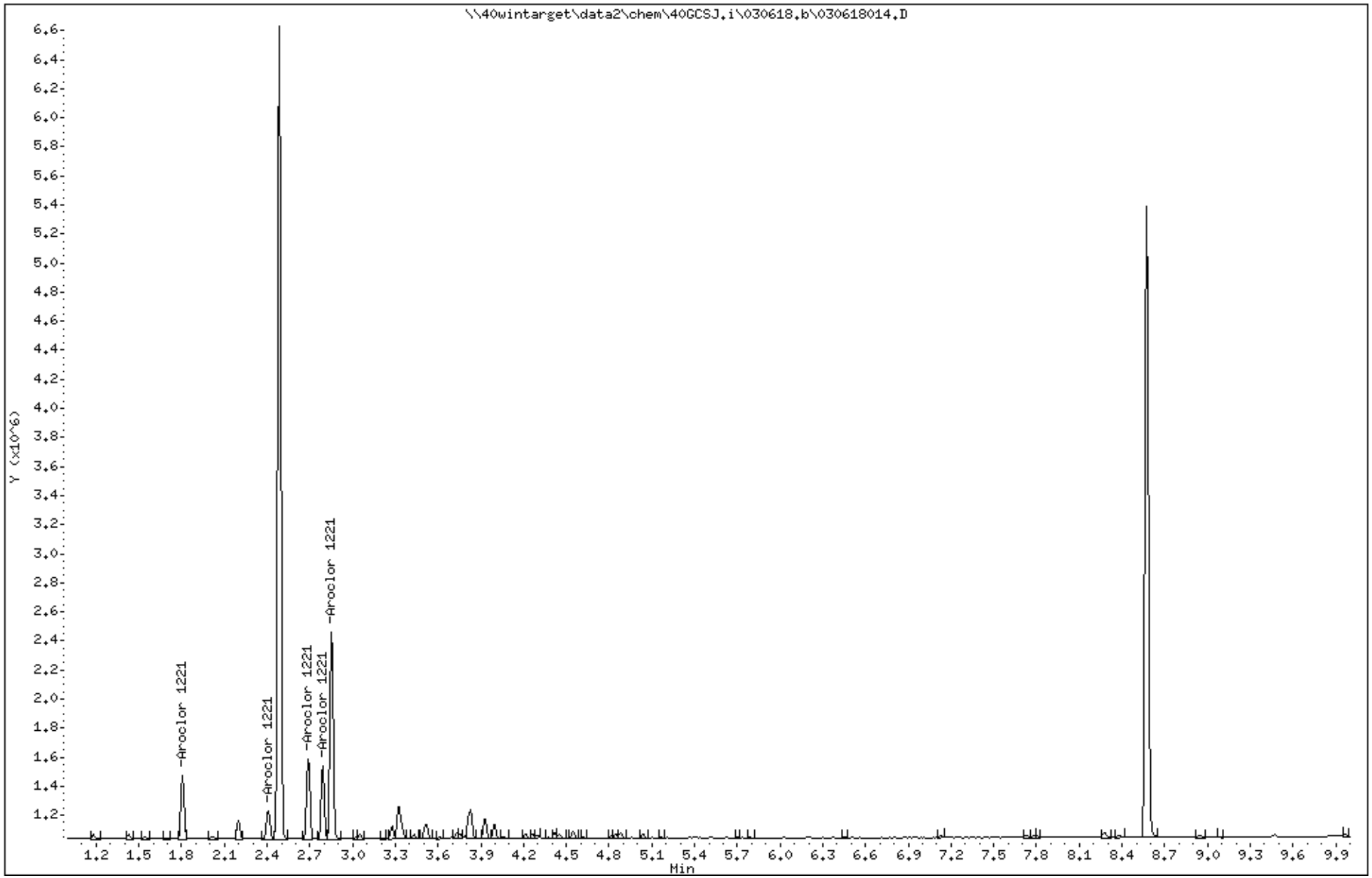
M - Compound response manually integrated.

Review Codes Legend

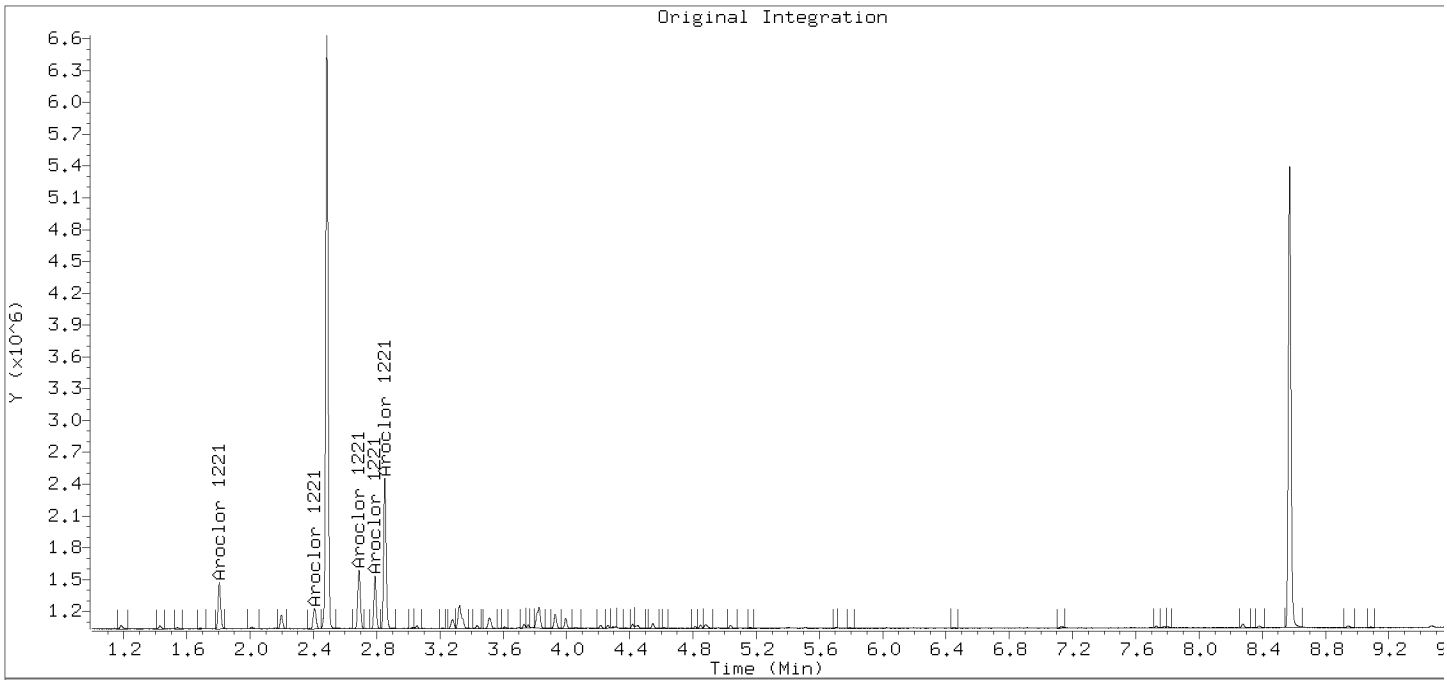
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

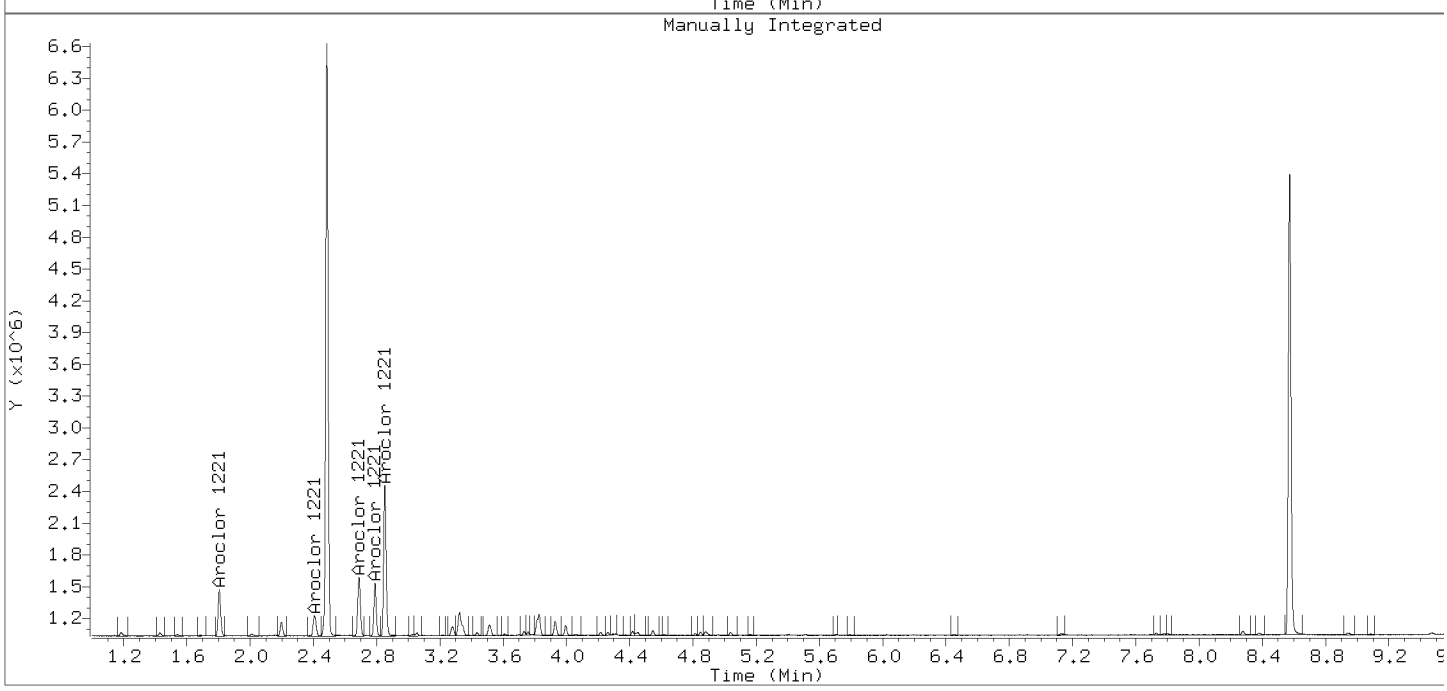
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618014.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL3F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 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
1.181	15077	12970	0.860	0.04		
1.430	62013	58411	0.942	0.20		
1.540	29523	27434	0.929	0.09		
1.682	10134	8214	0.811	0.03		
1.804	785551	700381	0.892	2.59	1 Aroclor 1221	BA
2.162	17608	16089	0.914	0.05		
2.197	232212	214361	0.923	0.76		
2.408	409142	300406	0.734	1.35	1 Aroclor 1221	BA
2.485	11502194	11125302	0.967	38.28		
2.689	1067134	893347	0.837	3.52	1 Aroclor 1221	BA
2.789	853931	817692	0.958	2.82	1 Aroclor 1221	BA
2.851	2470730	2197877	0.890	8.16	1 Aroclor 1221	BA
3.053	58135	49830	0.857	0.19		
3.280	178171	134368	0.754	0.58		
3.325	581244	339314	0.584	1.92		
3.436	58621	50800	0.867	0.19		
3.513	227025	162531	0.716	0.75		
3.611	30500	29323	0.961	0.10		
3.696	15508	16983	1.095	0.05		
3.732	59581	61761	1.037	0.19		
3.757	63343	56081	0.885	0.20		
3.827	512825	311364	0.607	1.69		
3.929	244641	209892	0.858	0.80		
3.995	150703	143674	0.953	0.49		
4.059	21801	19537	0.896	0.07		
4.134	11088	10051	0.906	0.03		
4.215	55304	52296	0.946	0.18		
4.260	51932	50173	0.966	0.17		
4.291	25327	22345	0.882	0.08		
4.311	24902	25307	1.016	0.08		
4.418	49634	53105	1.070	0.16		
4.443	38631	29989	0.776	0.12		
4.547	83853	73357	0.875	0.27		
4.617	26087	19117	0.733	0.08		
4.814	30317	32424	1.069	0.10		
4.849	51073	52237	1.023	0.16		
4.880	70316	49193	0.700	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	59957	50669	0.845	0.19	
5.103	12689	10469	0.825	0.04	
5.163	17456	13811	0.791	0.05	
5.216	17786	12808	0.720	0.05	
5.360	16391	9844	0.601	0.05	
5.406	16004	13419	0.838	0.05	
5.445	10313	9432	0.915	0.03	
5.512	20459	14813	0.724	0.06	
5.793	13847	11803	0.852	0.04	
7.123	27333	14055	0.514	0.09	
7.694	9264	9447	1.020	0.03	
7.729	46203	36902	0.799	0.15	
7.800	22162	20669	0.933	0.07	
8.276	84580	73604	0.870	0.27	
8.381	14600	14602	1.000	0.04	
8.573	9619023	8259708	0.859	31.79	
8.941	10654	8547	0.802	0.03	
9.090	21504	11989	0.558	0.07	
9.466	18951	12488	0.659	0.06	
9.960	21699	14589	0.672	0.07	
	30256687	27051204		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 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			
1.804	1.804	0.000	785550	0.80000	0.75	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	409142	0.80000	0.75	0.00- 20.00	52.08	BA
2.688	2.688	0.000	1067134	0.80000	0.77	0.00- 20.00	135.85	BA
2.789	2.789	0.000	853931	0.80000	0.77	0.00- 20.00	108.70	BA
2.851	2.851	0.000	2470729	0.80000	0.76	0.00- 20.00	314.52	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\40GCSJ.i\030618.b\030618016.D

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

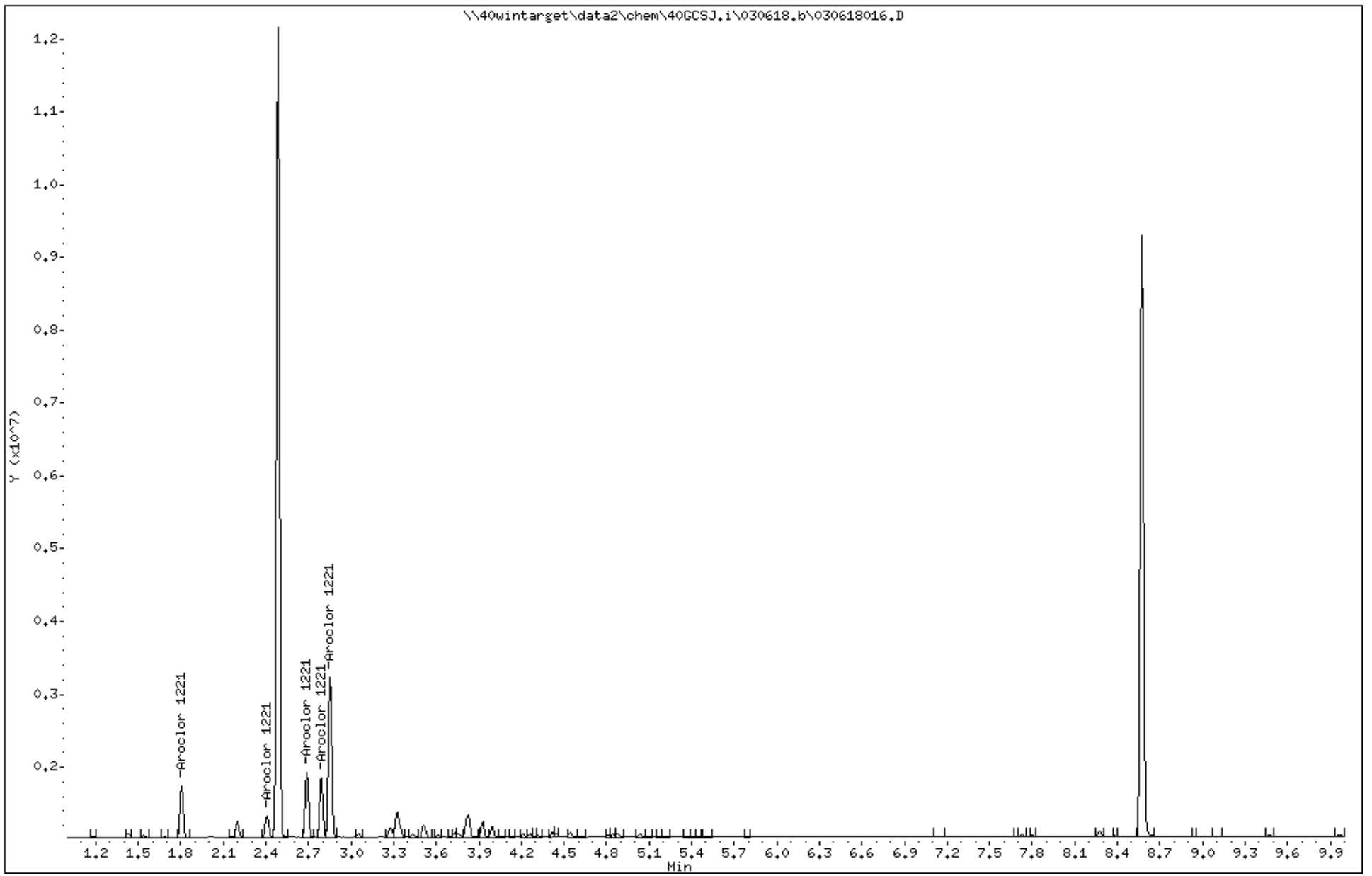
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

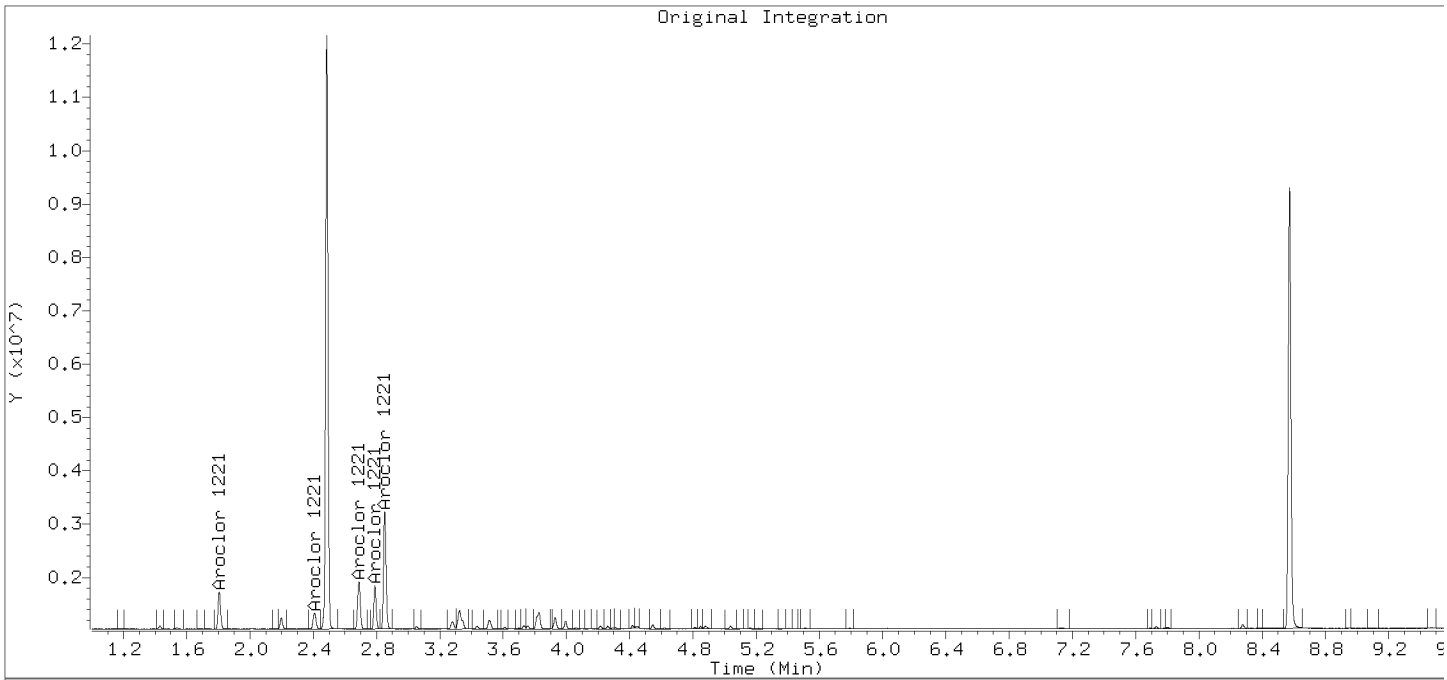
Operator: BLM

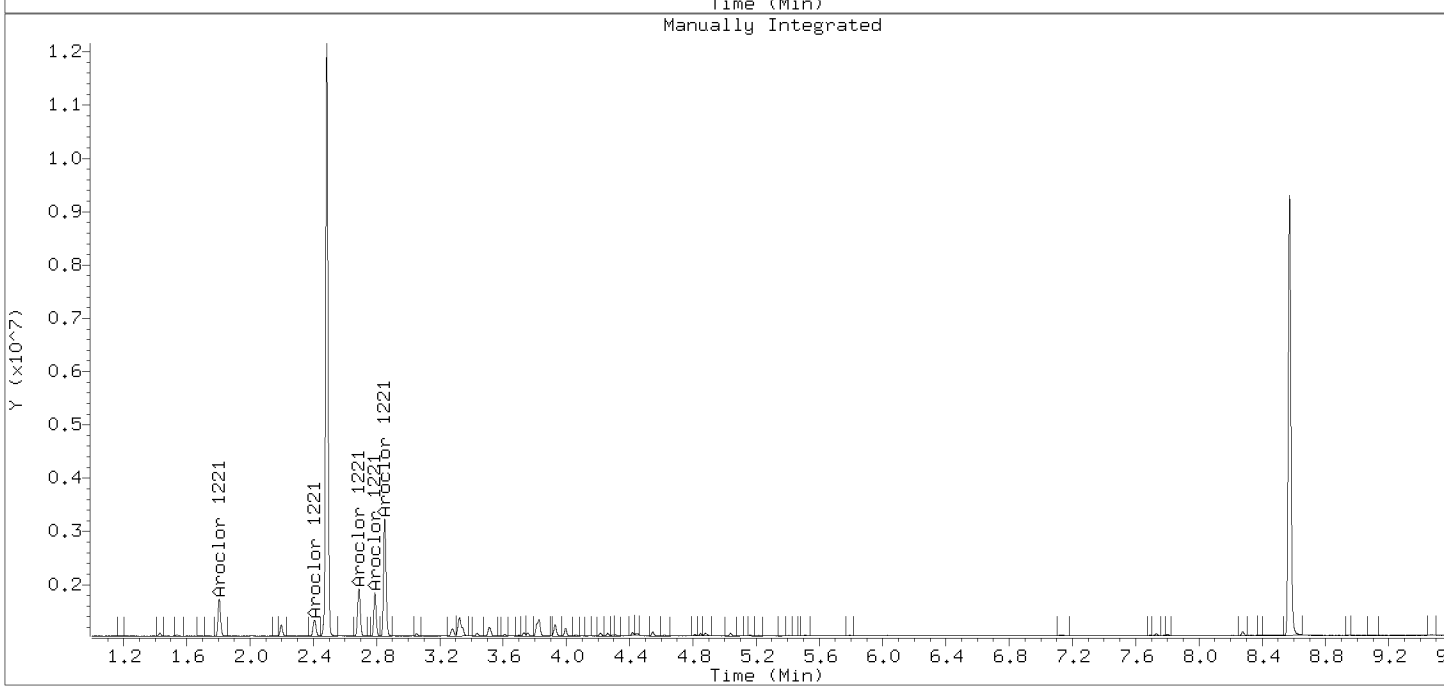
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618016.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 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
1.429	91782	83949	0.915	0.21		
1.539	45153	34415	0.762	0.10		
1.806	964273	851004	0.883	2.23	1 Aroclor 1221	BA
2.014	11838	7838	0.662	0.02		
2.160	16492	15827	0.960	0.03		
2.198	286599	255763	0.892	0.66		
2.408	501535	366636	0.731	1.16	1 Aroclor 1221	BA
2.486	17378255	16694368	0.961	40.52		
2.688	1314776	1093955	0.832	3.04	1 Aroclor 1221	BA
2.790	1091213	1024965	0.939	2.52	1 Aroclor 1221	BA
2.851	3058815	2705599	0.885	7.08	1 Aroclor 1221	BA
3.053	74407	64323	0.864	0.17		
3.217	18486	13382	0.724	0.04		
3.281	228692	172494	0.754	0.52		
3.325	747509	424295	0.568	1.73		
3.436	77500	63495	0.819	0.17		
3.513	280490	203651	0.726	0.64		
3.612	49578	44845	0.905	0.11		
3.701	23500	20479	0.871	0.05		
3.734	76655	76322	0.996	0.17		
3.757	81462	74126	0.910	0.18		
3.827	635271	385105	0.606	1.47		
3.929	312825	252728	0.808	0.72		
3.995	186590	175263	0.939	0.43		
4.062	31750	23556	0.742	0.07		
4.138	17974	12098	0.673	0.04		
4.217	72031	63997	0.888	0.16		
4.261	66789	61014	0.914	0.15		
4.293	54107	32297	0.597	0.12		
4.418	84432	78861	0.934	0.19		
4.451	94426	56177	0.595	0.21		
4.546	109930	92350	0.840	0.25		
4.618	33492	25022	0.747	0.07		
4.815	42406	39475	0.931	0.09		
4.849	68687	65653	0.956	0.15		
4.881	95718	65369	0.683	0.22		
4.957	18933	12531	0.662	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.037	71300	62002	0.870	0.16	
5.101	11578	12947	1.118	0.02	
5.162	15068	13787	0.915	0.03	
5.208	16758	12735	0.760	0.03	
5.363	13212	11132	0.843	0.03	
5.408	17007	15696	0.923	0.03	
5.445	14075	10385	0.738	0.03	
5.512	25865	18240	0.705	0.05	
5.792	16968	13288	0.783	0.03	
6.028	13891	11907	0.857	0.03	
7.125	30918	19205	0.621	0.07	
7.692	13631	9457	0.694	0.03	
7.729	65348	56318	0.862	0.15	
7.802	42671	34037	0.798	0.09	
8.277	126824	104866	0.827	0.29	
8.379	18877	14713	0.779	0.04	
8.573	14268732	12292631	0.862	33.03	
8.940	12885	8913	0.692	0.02	
9.089	24129	17399	0.721	0.05	
9.468	12972	8897	0.686	0.03	
9.969	15122	10700	0.708	0.03	
	43192203	38492482		100.000	

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 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			
1.806	1.804	0.002	964273	1.00000	0.93	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	501535	1.00000	0.92	0.00- 20.00	52.01	BA
2.688	2.688	0.000	1314775	1.00000	0.95	0.00- 20.00	136.35	BA
2.789	2.789	0.000	1091213	1.00000	0.99	0.00- 20.00	113.16	BA
2.851	2.851	0.000	3058814	1.00000	0.94	0.00- 20.00	317.21	BA
Average of Peak Amounts =					0.94600			

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\40GCSJ.i\030618.b\030618018.D

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

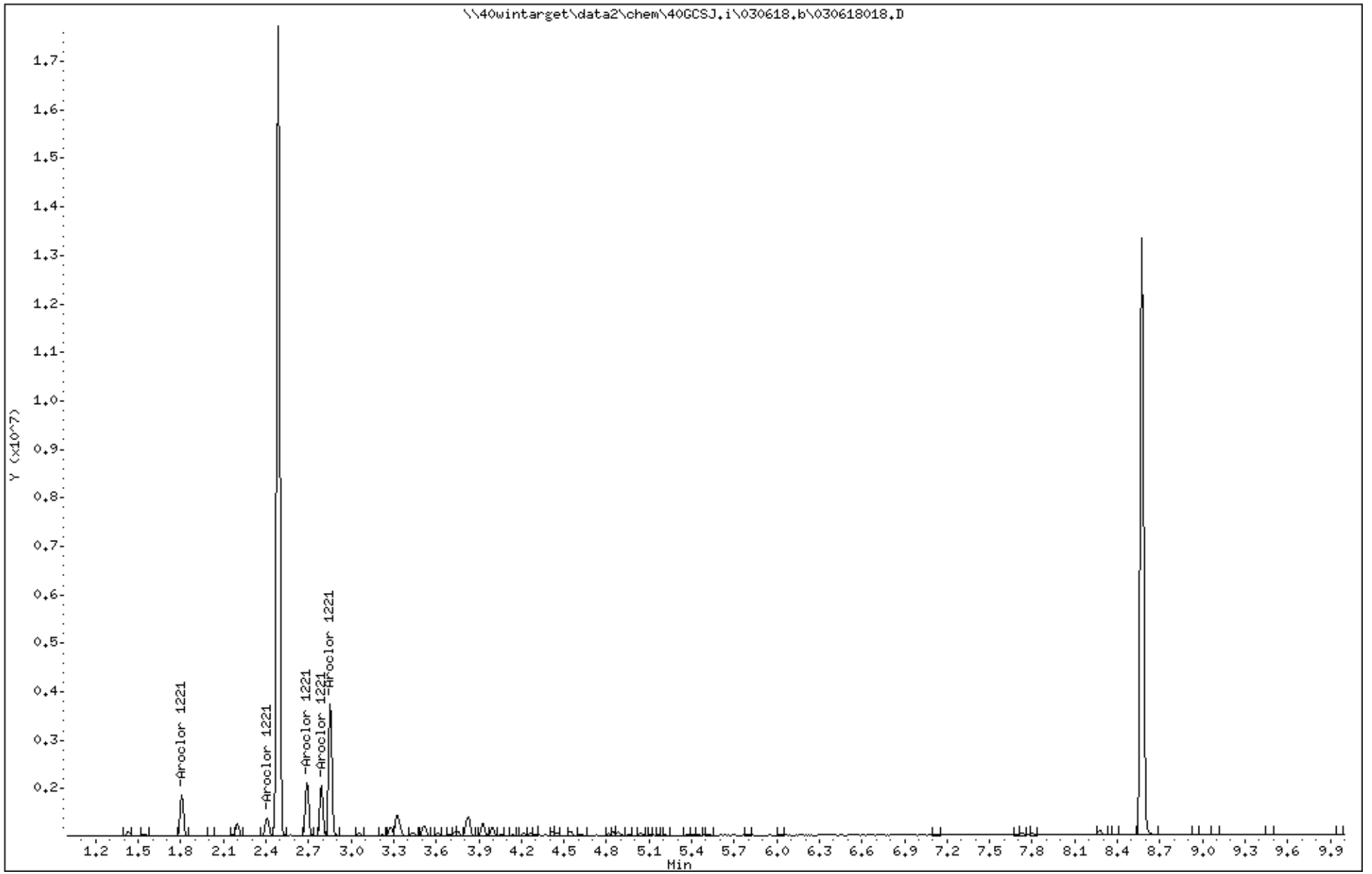
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

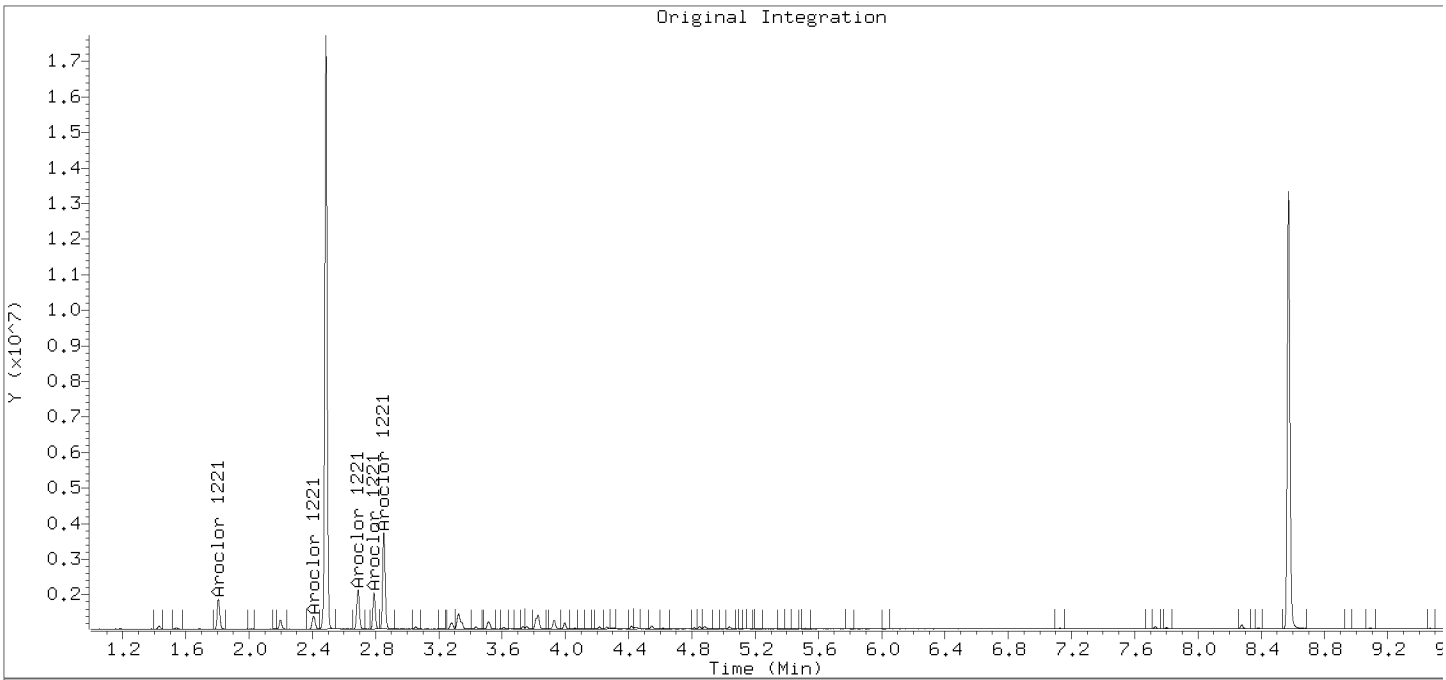
Operator: BLM

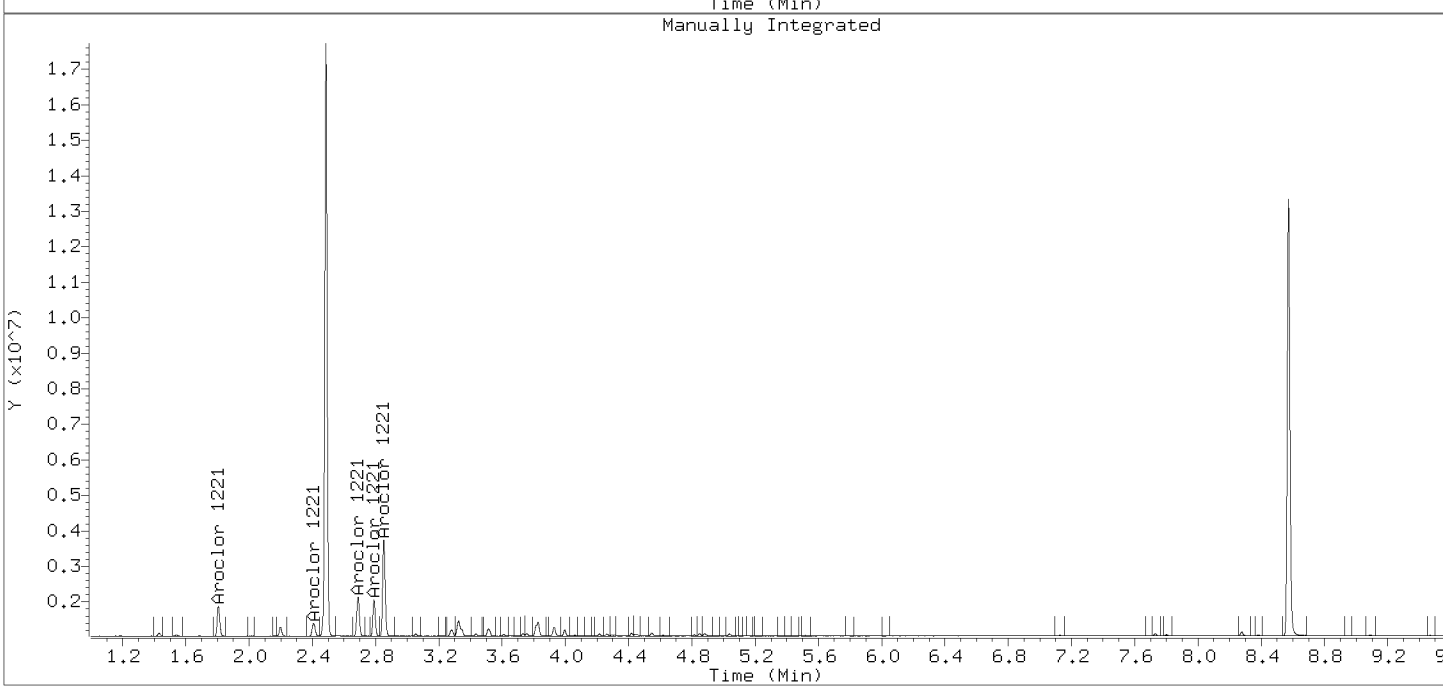
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618018.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 13:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL5F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 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
1.183	48353	40712	0.842	0.55		
1.685	15584	12605	0.809	0.18		
2.012	33033	24593	0.745	0.38		
2.403	26701	21656	0.811	0.30		
2.485	1268339	1220330	0.962	14.93		
2.688	45903	34473	0.751	0.53		
2.791	63166	56222	0.890	0.73		
2.851	204981	187245	0.913	2.37		
3.026	22317	19810	0.888	0.25		
3.055	37376	31867	0.853	0.43		
3.318	277256	257375	0.928	3.21	3 Aroclor 1242	BA
3.345	154841	150344	0.971	1.79		
3.435	49043	39609	0.808	0.56		
3.514	273951	193620	0.707	3.17	3 Aroclor 1242	BA
3.733	69544	68947	0.991	0.80		
3.757	45882	42206	0.920	0.53		
3.827	769590	449825	0.584	8.91	3 Aroclor 1242	BA
3.929	328754	270344	0.822	3.80	3 Aroclor 1242	BA
3.996	224743	217453	0.968	2.60	3 Aroclor 1242	BA
4.059	72772	62645	0.861	0.84		
4.135	32124	25139	0.783	0.37		
4.215	184258	174093	0.945	2.13		
4.262	175232	166947	0.953	2.02		
4.295	76283	77062	1.010	0.88		
4.310	94862	88633	0.934	1.09		
4.417	242650	230875	0.951	2.80		
4.453	185260	138108	0.745	2.14		
4.547	310173	288905	0.931	3.59		
4.617	78937	69004	0.874	0.91		
4.726	21360	16230	0.760	0.24		
4.770	22579	18643	0.826	0.26		
4.813	144508	140479	0.972	1.67		
4.848	244505	231221	0.946	2.83		
4.880	333816	245294	0.735	3.86		
4.958	38640	32017	0.829	0.44		
5.039	262014	232176	0.886	3.03		
5.099	55213	47400	0.858	0.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.164	71096	60506	0.851	0.82	
5.213	54601	49311	0.903	0.63	
5.310	15720	13003	0.827	0.18	
5.363	43486	39659	0.912	0.50	
5.407	75906	62166	0.819	0.87	
5.447	47603	40647	0.854	0.55	
5.511	110554	91386	0.827	1.28	
5.605	38987	31752	0.814	0.45	
5.702	21923	17168	0.783	0.25	
5.793	90266	69831	0.774	1.04	
5.888	18665	11476	0.615	0.21	
6.027	83046	57198	0.689	0.96	
6.301	23663	20357	0.860	0.27	
6.450	25108	16371	0.652	0.29	
7.135	16747	14415	0.861	0.19	
7.722	10233	8765	0.857	0.11	
7.774	20981	14974	0.714	0.24	
8.276	10004	11485	1.148	0.11	
8.381	26018	18613	0.715	0.30	
8.572	1221508	1021745	0.836	14.14	
8.943	31681	20256	0.639	0.36	
9.468	21143	16317	0.772	0.24	
9.964	23088	17512	0.758	0.26	
	8636569	7349020		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 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			
3.318	3.318	0.000	277256	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	273950	0.10000	0.11	0.00- 20.00	98.81	BA
3.826	3.827	-0.001	769589	0.10000	0.11	0.00- 20.00	277.57	BA
3.928	3.929	-0.001	328754	0.10000	0.11	0.00- 20.00	118.57	BA
3.995	3.995	0.000	224742	0.10000	0.11	0.00- 20.00	81.06	BA

Average of Peak Amounts = 0.11000

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\40GCSJ.i\030618.b\030618022.D

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

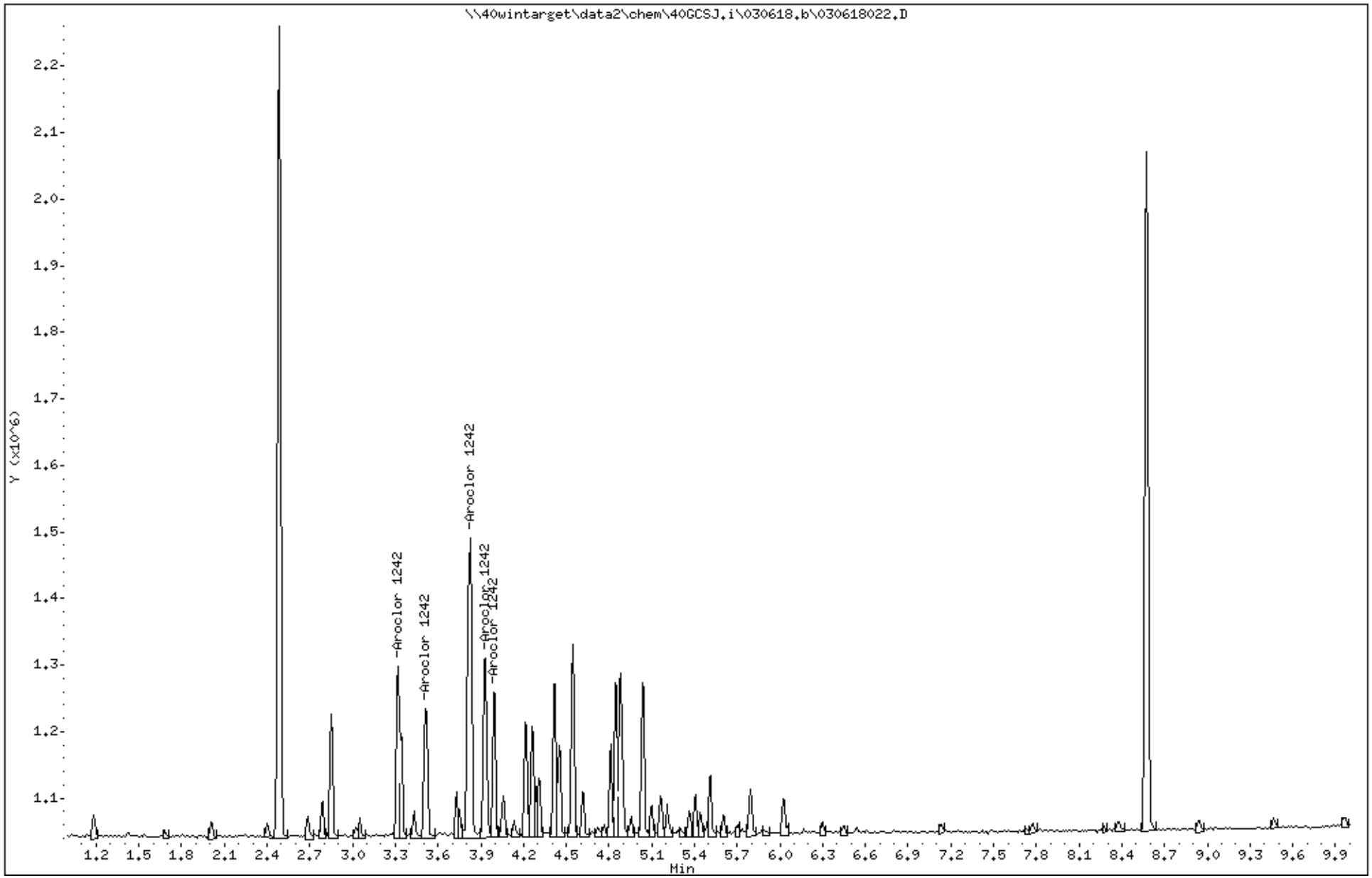
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

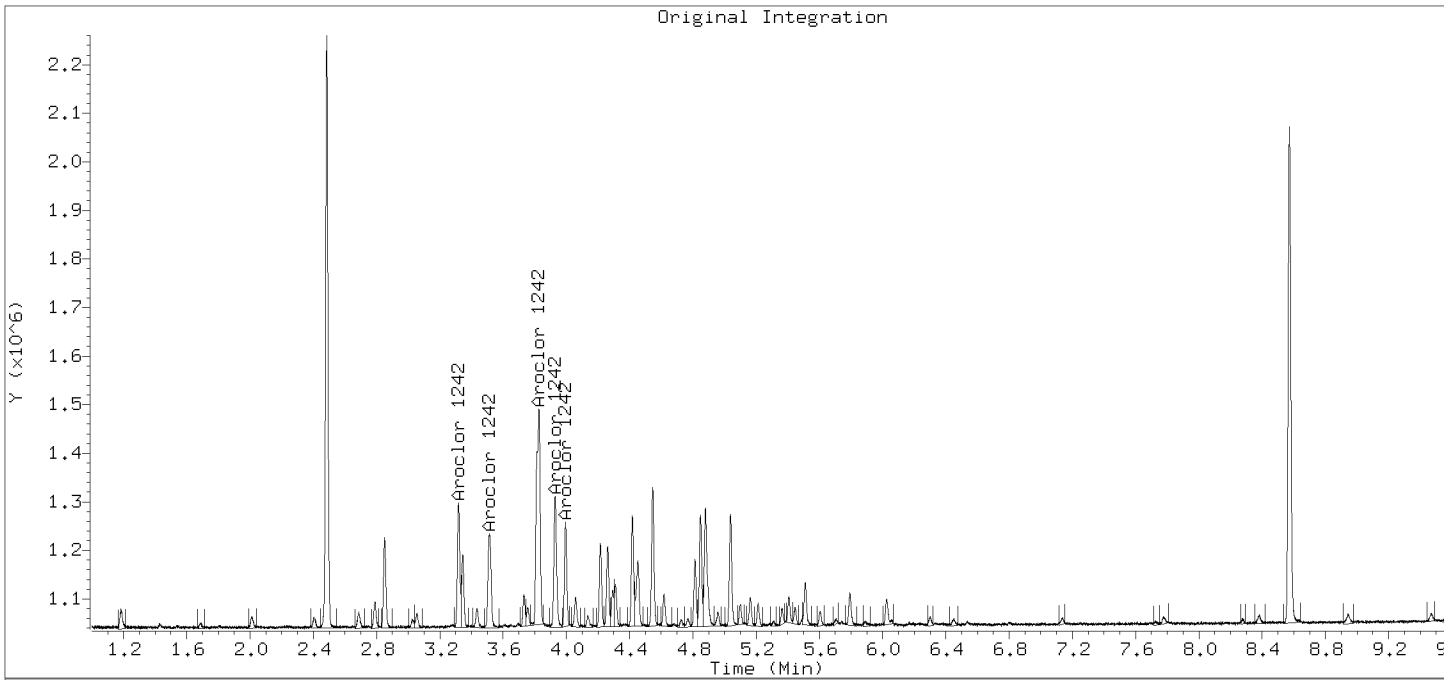
Operator: BLM

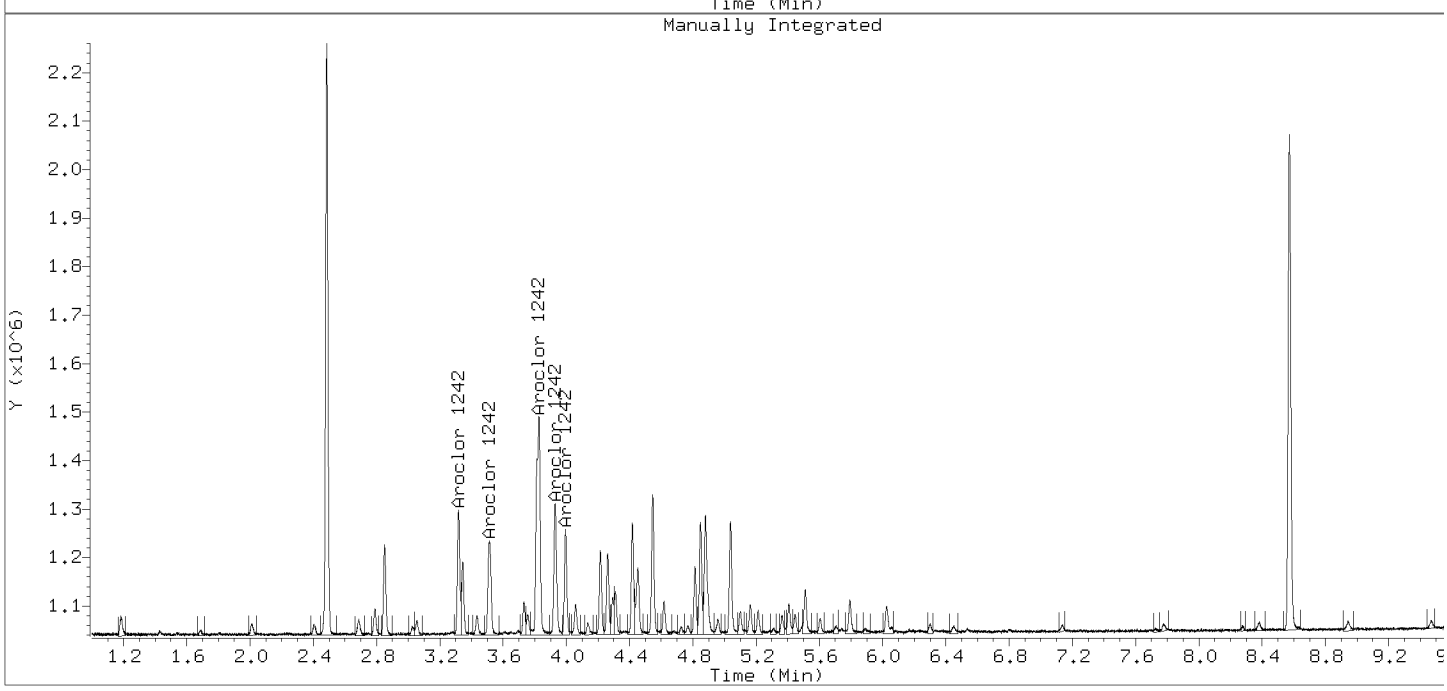
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618022.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 13:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL1B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 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
1.184	14220	11208	0.788	0.08		
1.430	13376	14873	1.112	0.08		
1.537	12556	8533	0.680	0.07		
1.684	10310	8364	0.811	0.06		
1.803	9301	8955	0.963	0.05		
2.404	53409	39369	0.737	0.33		
2.484	2424898	2340795	0.965	15.45		
2.685	71092	59059	0.831	0.44		
2.789	112696	106870	0.948	0.70		
2.851	383763	360025	0.938	2.38		
3.054	60192	54572	0.907	0.37		
3.319	537600	506479	0.942	3.34	3 Aroclor 1242	BA
3.344	300840	286923	0.954	1.87		
3.434	87992	78217	0.889	0.54		
3.514	520152	378008	0.727	3.23	3 Aroclor 1242	BA
3.607	13378	11603	0.867	0.08		
3.696	19908	16213	0.814	0.12		
3.732	129346	131457	1.016	0.80		
3.756	89938	85088	0.946	0.56		
3.826	1494620	886299	0.593	9.30	3 Aroclor 1242	BA
3.929	633849	547272	0.863	3.94	3 Aroclor 1242	BA
3.994	415519	392907	0.946	2.58	3 Aroclor 1242	BA
4.059	126568	116783	0.923	0.78		
4.137	53777	45505	0.846	0.33		
4.216	349073	338096	0.969	2.17		
4.261	336841	321968	0.956	2.09		
4.293	139012	148834	1.071	0.86		
4.310	185086	169258	0.914	1.15		
4.372	13133	10098	0.769	0.08		
4.418	470013	436944	0.930	2.92		
4.452	357597	265664	0.743	2.22		
4.546	610105	562073	0.921	3.79		
4.618	143247	130258	0.909	0.89		
4.727	34627	28696	0.829	0.21		
4.768	38705	34109	0.881	0.24		
4.814	277192	264316	0.954	1.72		
4.849	476923	458153	0.961	2.97		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.879	613481	454847	0.741	3.82	
4.960	74104	57100	0.771	0.46	
5.038	507891	458844	0.903	3.16	
5.100	100349	88837	0.885	0.62	
5.164	134684	119177	0.885	0.83	
5.213	98854	90627	0.917	0.61	
5.283	12070	11231	0.930	0.07	
5.310	24719	19674	0.796	0.15	
5.363	85050	75533	0.888	0.52	
5.408	146635	119693	0.816	0.91	
5.447	90264	80310	0.890	0.56	
5.510	230506	174139	0.755	1.43	
5.605	75587	61685	0.816	0.47	
5.716	16948	14359	0.847	0.10	
5.741	23073	20242	0.877	0.14	
5.793	169665	128009	0.754	1.05	
5.887	31657	16739	0.529	0.19	
6.025	153536	114654	0.747	0.95	
6.171	21729	13262	0.610	0.13	
6.302	46462	36756	0.791	0.28	
6.534	18985	15865	0.836	0.11	
6.803	15791	11632	0.737	0.09	
7.725	15675	13882	0.886	0.09	
8.279	20164	17879	0.887	0.12	
8.380	27215	14895	0.547	0.16	
8.573	2205636	1873304	0.849	13.73	
8.944	29668	17498	0.590	0.18	
9.464	14497	11336	0.782	0.09	
9.964	31291	22255	0.711	0.19	
	16057042	13818108		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 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			
3.318	3.318	0.000	537600	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	520151	0.20000	0.21	0.00- 20.00	96.75	BA
3.826	3.827	-0.001	1494620	0.20000	0.21	0.00- 20.00	278.02	BA
3.929	3.929	0.000	633849	0.20000	0.21	0.00- 20.00	117.90	BA
3.994	3.995	-0.001	415519	0.20000	0.20	0.00- 20.00	77.29	BA
Average of Peak Amounts =					0.20800			

QC Flag Legend

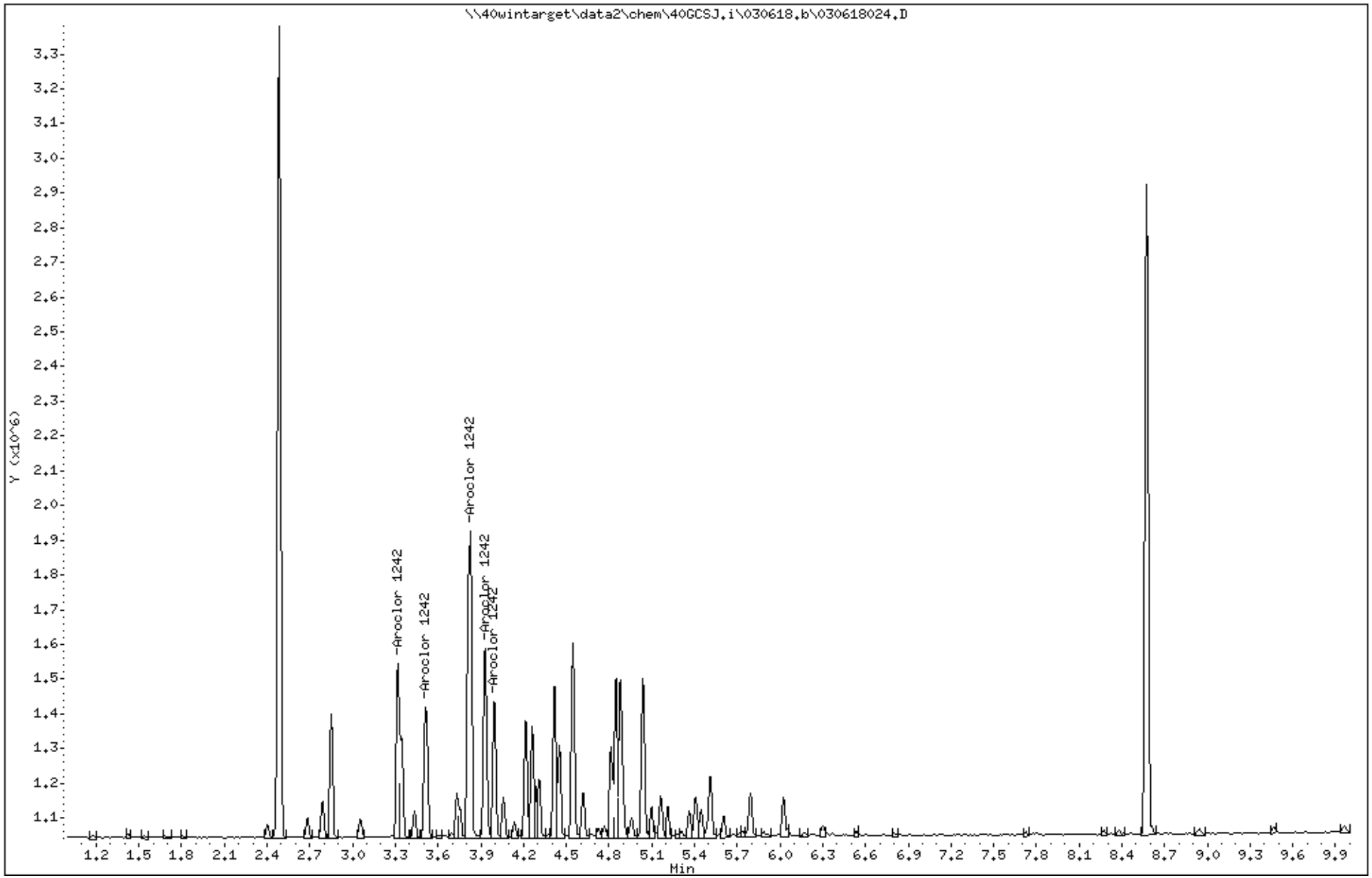
M - Compound response manually integrated.

Review Codes Legend

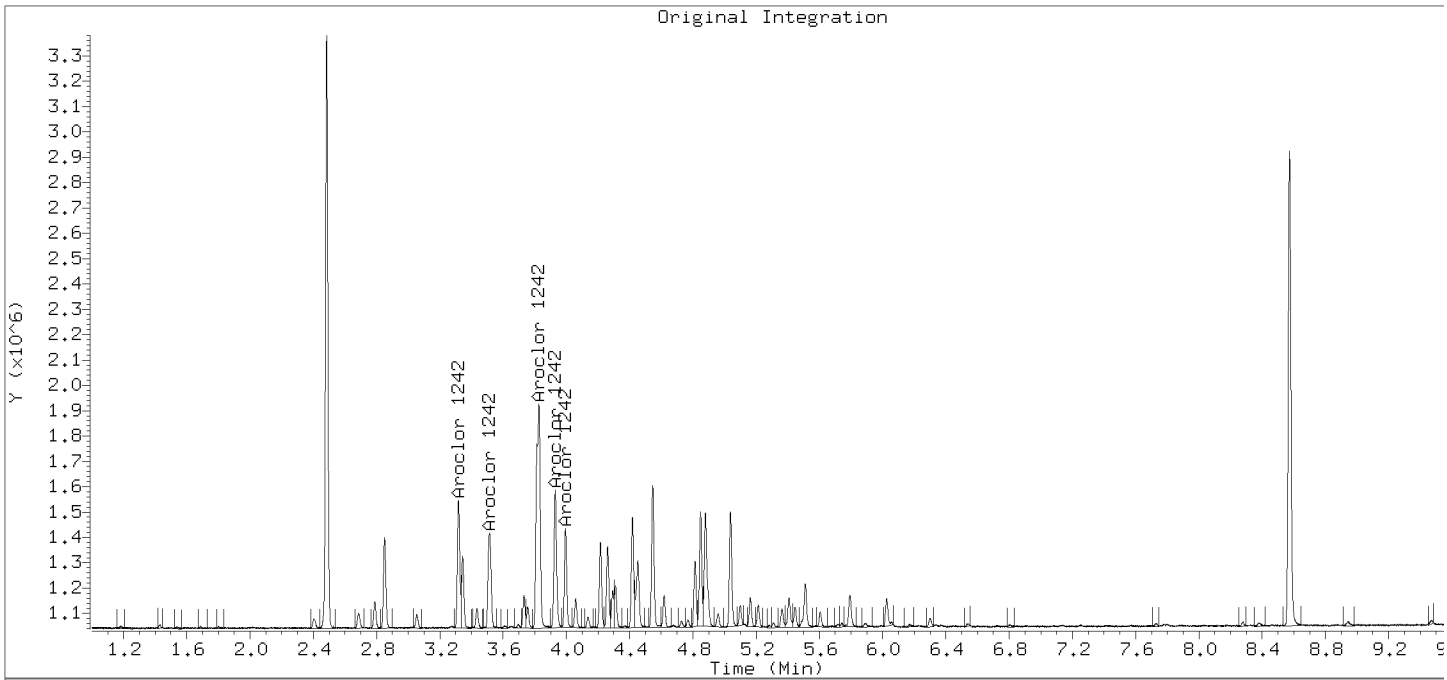
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

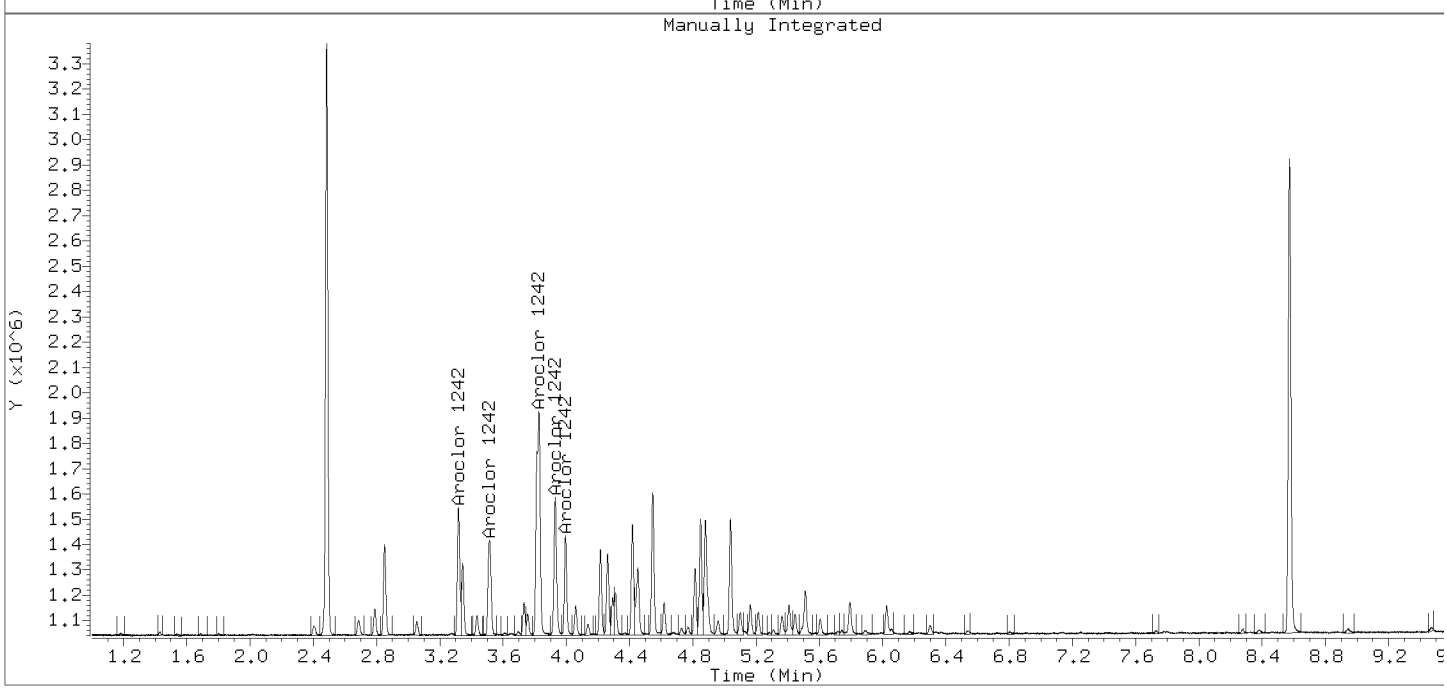
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618024.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL2B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 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
1.182	62004	50847	0.820	0.16		
1.431	37460	32055	0.856	0.09		
1.541	14316	12367	0.864	0.03		
1.687	15486	12743	0.823	0.04		
1.807	18746	14208	0.758	0.04		
2.011	43433	33553	0.773	0.11		
2.406	117538	91845	0.781	0.30		
2.485	5892252	5641423	0.957	15.80		
2.688	168721	139553	0.827	0.44		
2.789	263881	249457	0.945	0.68		
2.851	912957	864348	0.947	2.38		
3.032	23465	23649	1.008	0.06		
3.054	147736	128585	0.870	0.38		
3.278	22664	16866	0.744	0.05		
3.318	1252566	1174122	0.937	3.27	3 Aroclor 1242	BA
3.344	702584	667750	0.950	1.83		
3.435	195742	182887	0.934	0.51		
3.514	1253174	902840	0.720	3.27	3 Aroclor 1242	BA
3.610	20808	19442	0.934	0.05		
3.698	36264	35190	0.970	0.09		
3.733	310548	311302	1.002	0.81		
3.756	210733	195877	0.930	0.55		
3.827	3485663	2059745	0.591	9.11	3 Aroclor 1242	BA
3.929	1508994	1248466	0.827	3.94	3 Aroclor 1242	BA
3.995	1031466	974966	0.945	2.69	3 Aroclor 1242	BA
4.059	297827	269246	0.904	0.77		
4.137	124808	105679	0.847	0.32		
4.215	835282	795778	0.953	2.18		
4.262	800812	762657	0.952	2.09		
4.294	335573	342292	1.020	0.87		
4.310	418203	390877	0.935	1.09		
4.366	27246	20902	0.767	0.07		
4.418	1095729	1053734	0.962	2.86		
4.452	872734	643030	0.737	2.28		
4.546	1429253	1334739	0.934	3.73		
4.617	329513	299311	0.908	0.86		
4.679	25919	20313	0.784	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	75071	61492	0.819	0.19	
4.770	78410	75801	0.967	0.20	
4.814	666858	654940	0.982	1.74	
4.848	1139990	1092076	0.958	2.97	
4.879	1497562	1126464	0.752	3.91	
4.959	169941	133168	0.784	0.44	
5.038	1220947	1147297	0.940	3.19	
5.099	262922	203724	0.775	0.68	
5.163	307382	272531	0.887	0.80	
5.212	234571	204654	0.872	0.61	
5.286	17325	18279	1.055	0.04	
5.312	55833	44258	0.793	0.14	
5.365	200636	172920	0.862	0.52	
5.408	328555	284252	0.865	0.85	
5.447	222890	182949	0.821	0.58	
5.510	538895	423244	0.785	1.40	
5.605	171765	141640	0.825	0.44	
5.717	55818	31435	0.563	0.14	
5.742	42015	41544	0.989	0.10	
5.793	399108	317536	0.796	1.04	
5.891	59724	37531	0.628	0.15	
5.988	12622	14402	1.141	0.03	
6.025	317230	272827	0.860	0.82	
6.056	62897	52017	0.827	0.16	
6.173	35886	23021	0.641	0.09	
6.228	35394	17536	0.495	0.09	
6.300	107967	90981	0.843	0.28	
6.338	25191	21116	0.838	0.06	
6.373	22038	15834	0.718	0.05	
6.444	13051	11257	0.863	0.03	
6.540	47204	32635	0.691	0.12	
6.803	23591	20139	0.854	0.06	
7.005	15270	10968	0.718	0.03	
7.133	35322	22100	0.626	0.09	
7.250	13054	10560	0.809	0.03	
7.727	20164	18616	0.923	0.05	
7.782	26691	22023	0.825	0.06	
7.800	17830	16488	0.925	0.04	
8.277	43520	38062	0.875	0.11	
8.377	40259	27272	0.677	0.10	
8.573	5121279	4417666	0.863	13.38	
8.941	41704	28161	0.675	0.10	
9.469	46040	28501	0.619	0.12	
9.966	42365	27909	0.659	0.11	
	38254887	33030470		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 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			
3.317	3.318	-0.001	1252566	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1253174	0.50000	0.50	0.00- 20.00	100.05	BA
3.827	3.827	0.000	3485663	0.50000	0.49	0.00- 20.00	278.28	BA
3.929	3.929	0.000	1508993	0.50000	0.50	0.00- 20.00	120.47	BA
3.995	3.995	0.000	1031465	0.50000	0.50	0.00- 20.00	82.35	BA
Average of Peak Amounts =					0.49600			

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\40GCSJ.i\030618.b\030618026.D

Date : 06-MAR-2018 14:16

Client ID: 1242-CAL3B

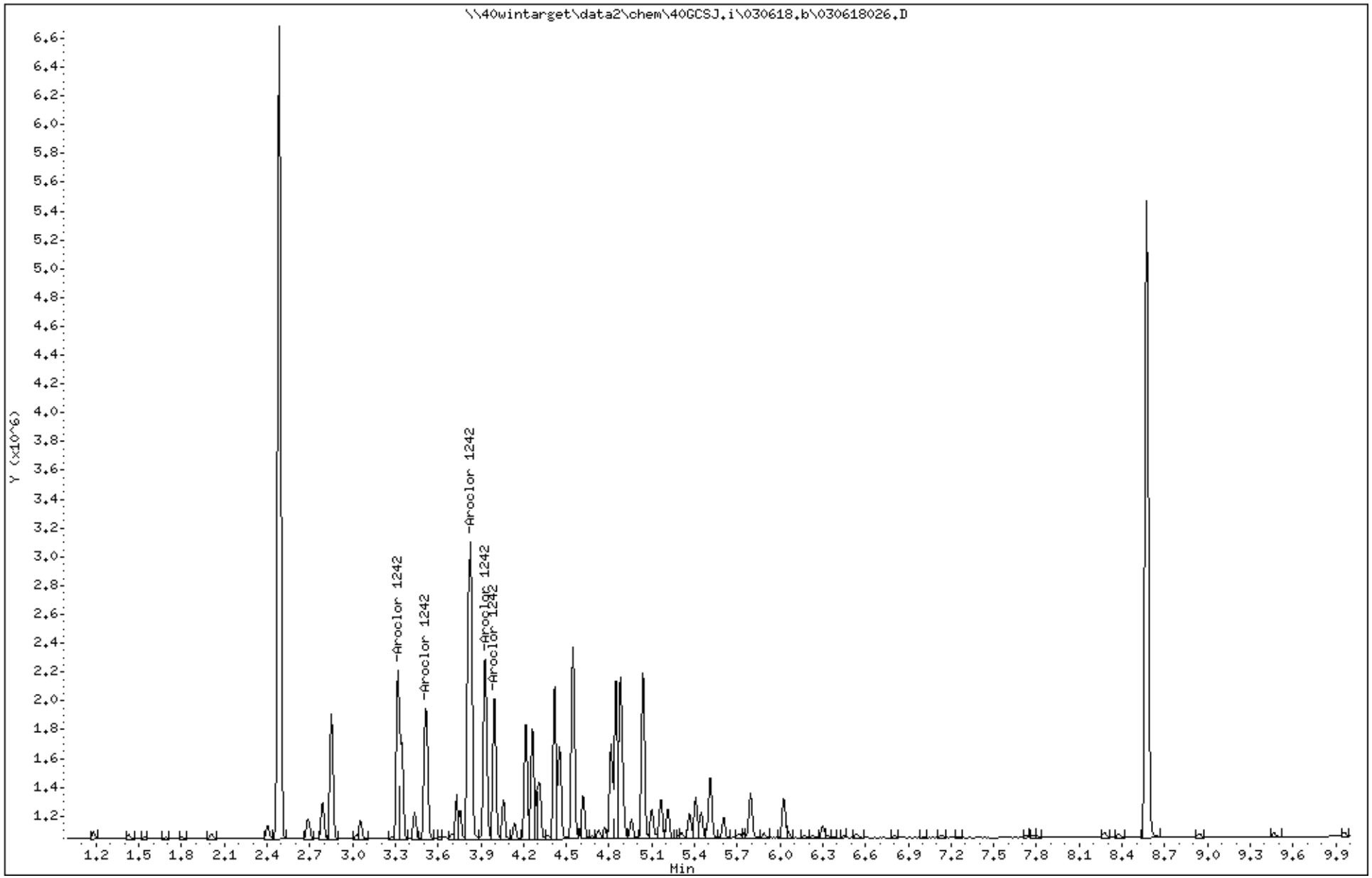
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

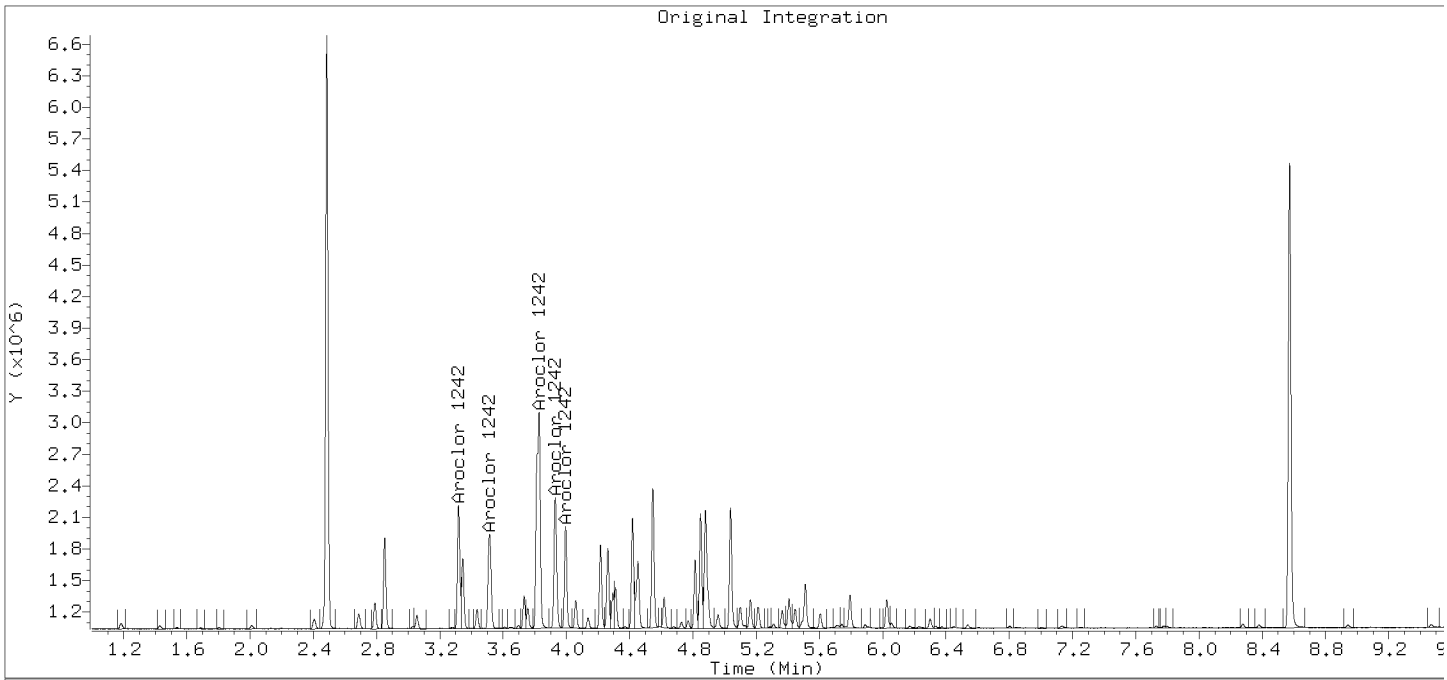
Operator: BLM

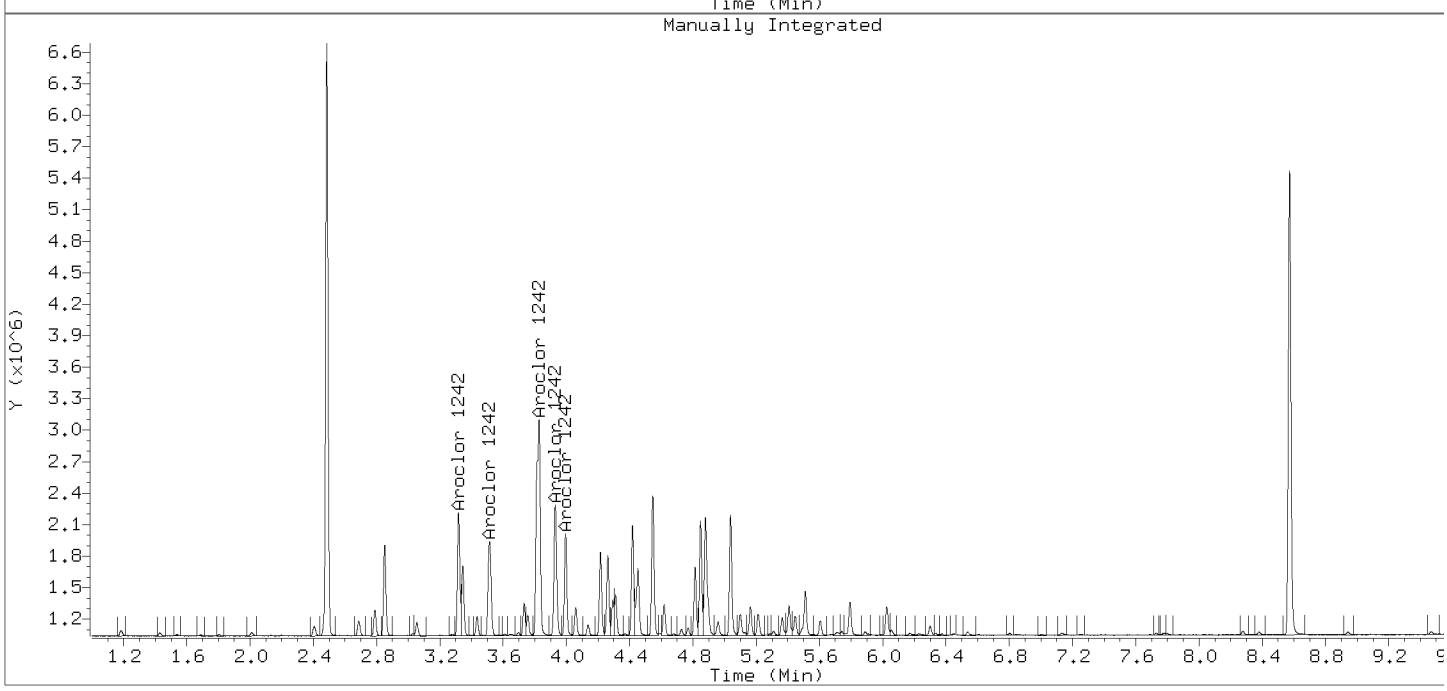
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618026.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL3B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 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
1.185	10080	10187	1.011	0.01		
1.429	71364	59862	0.839	0.11		
1.538	29625	26596	0.898	0.04		
1.688	11915	10660	0.895	0.01		
1.804	23856	18863	0.791	0.03		
2.007	10897	7828	0.718	0.01		
2.404	181872	142910	0.786	0.29		
2.485	11627123	11366999	0.978	18.98		
2.688	264051	219269	0.830	0.42		
2.789	434211	416960	0.960	0.69		
2.851	1404465	1315051	0.936	2.24		
3.055	207612	200354	0.965	0.33		
3.277	30044	24512	0.816	0.04		
3.318	1896850	1767208	0.932	3.03	3 Aroclor 1242	BA
3.345	1097148	1042916	0.951	1.75		
3.435	308786	278730	0.903	0.49		
3.514	1913733	1396800	0.730	3.05	3 Aroclor 1242	BA
3.611	36879	32861	0.891	0.05		
3.650	32275	21129	0.655	0.05		
3.698	52994	51432	0.971	0.08		
3.732	483352	488922	1.012	0.77		
3.757	311671	302713	0.971	0.49		
3.827	5388263	3191450	0.592	8.61	3 Aroclor 1242	BA
3.930	2300081	1902191	0.827	3.67	3 Aroclor 1242	BA
3.995	1542626	1468087	0.952	2.46	3 Aroclor 1242	BA
4.058	448445	418306	0.933	0.71		
4.137	178413	160377	0.899	0.28		
4.216	1273682	1194446	0.938	2.03		
4.262	1227232	1169872	0.953	1.96		
4.294	525419	547237	1.042	0.83		
4.311	636195	609901	0.959	1.01		
4.372	36108	28635	0.793	0.05		
4.417	1692750	1588767	0.939	2.70		
4.453	1331839	978159	0.734	2.12		
4.546	2184137	1978129	0.906	3.49		
4.617	508881	469073	0.922	0.81		
4.680	35054	29148	0.832	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	105197	91550	0.870	0.16	
4.769	122661	117412	0.957	0.19	
4.814	1044933	1018344	0.975	1.66	
4.849	1747424	1640600	0.939	2.79	
4.879	2259358	1670288	0.739	3.61	
4.958	257618	206246	0.801	0.41	
5.037	1890389	1718139	0.909	3.02	
5.100	401551	318982	0.794	0.64	
5.163	472012	441234	0.935	0.75	
5.213	355660	314958	0.886	0.56	
5.286	29890	27564	0.922	0.04	
5.311	83705	68170	0.814	0.13	
5.364	301164	261411	0.868	0.48	
5.407	509309	451496	0.886	0.81	
5.445	334594	277269	0.829	0.53	
5.509	841921	651295	0.774	1.34	
5.605	255376	218910	0.857	0.40	
5.678	22556	17148	0.760	0.03	
5.717	46249	39239	0.848	0.07	
5.741	70982	58982	0.831	0.11	
5.793	601893	487520	0.810	0.96	
5.888	90739	56064	0.618	0.14	
5.996	18848	17967	0.953	0.03	
6.025	494570	434696	0.879	0.79	
6.055	94751	75807	0.800	0.15	
6.167	43225	29320	0.678	0.06	
6.227	36179	22391	0.619	0.05	
6.298	159553	135640	0.850	0.25	
6.334	38685	28936	0.748	0.06	
6.377	33304	20685	0.621	0.05	
6.537	60223	50647	0.841	0.09	
6.804	34153	30829	0.903	0.05	
7.006	17283	12447	0.720	0.02	
7.126	26579	14899	0.561	0.04	
7.251	12264	12902	1.052	0.01	
7.726	42507	35890	0.844	0.06	
7.802	24391	23419	0.960	0.03	
8.277	86483	69397	0.802	0.13	
8.377	21031	14261	0.678	0.03	
8.573	9665476	8353148	0.864	15.44	
8.947	18281	11560	0.632	0.02	
9.088	11569	10817	0.935	0.01	
9.469	15262	13186	0.864	0.02	
9.963	30595	19946	0.652	0.04	
	62580323	54528151		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 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			
3.318	3.318	0.000	1896850	0.80000	0.75	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1913733	0.80000	0.76	0.00- 20.00	100.89	BA
3.827	3.827	0.000	5388263	0.80000	0.76	0.00- 20.00	284.06	BA
3.930	3.929	0.001	2300081	0.80000	0.76	0.00- 20.00	121.26	BA
3.995	3.995	0.000	1542626	0.80000	0.75	0.00- 20.00	81.33	BA
Average of Peak Amounts =					0.75600			

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\40GCSJ.i\030618.b\030618028.D

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

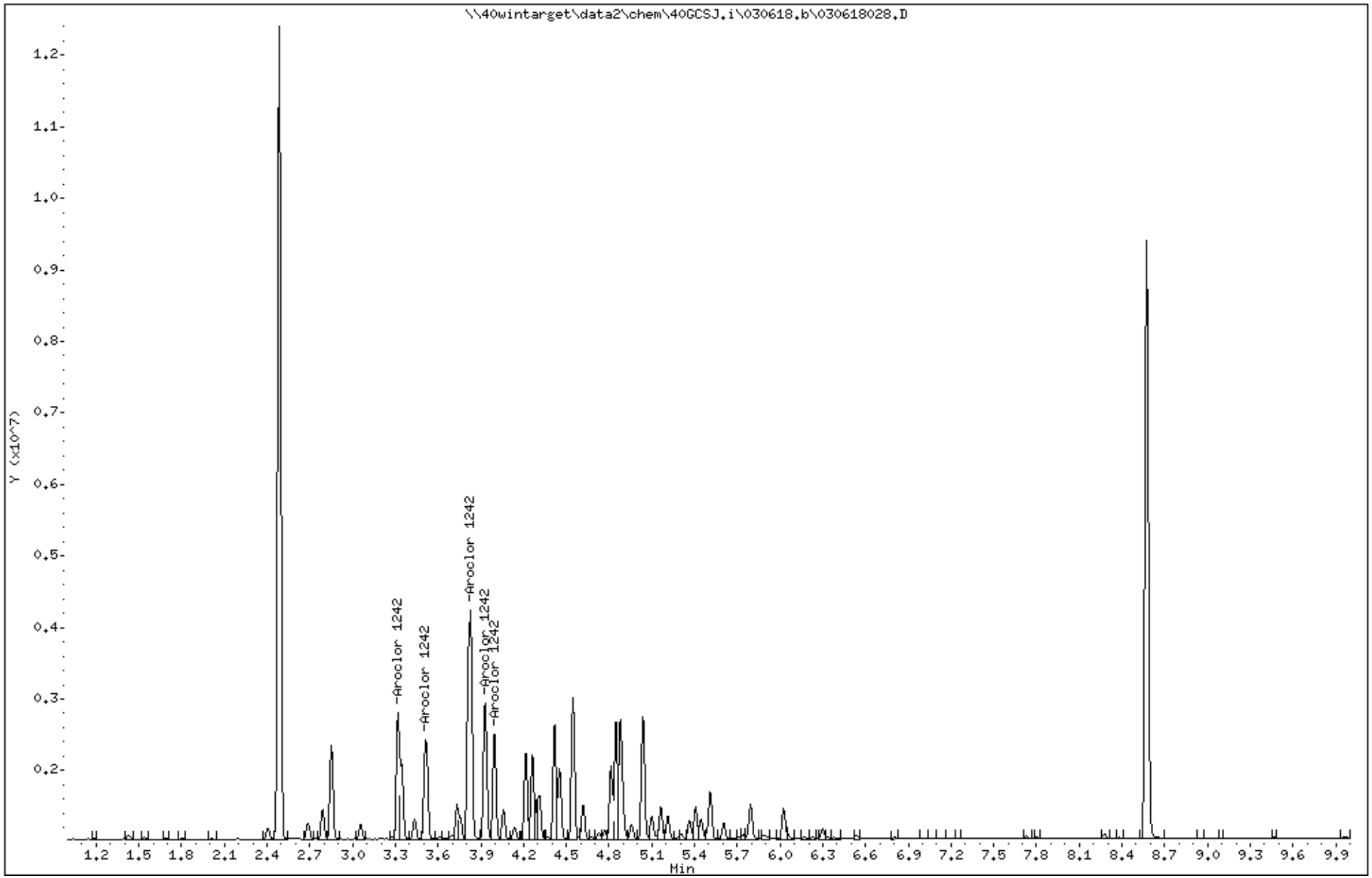
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

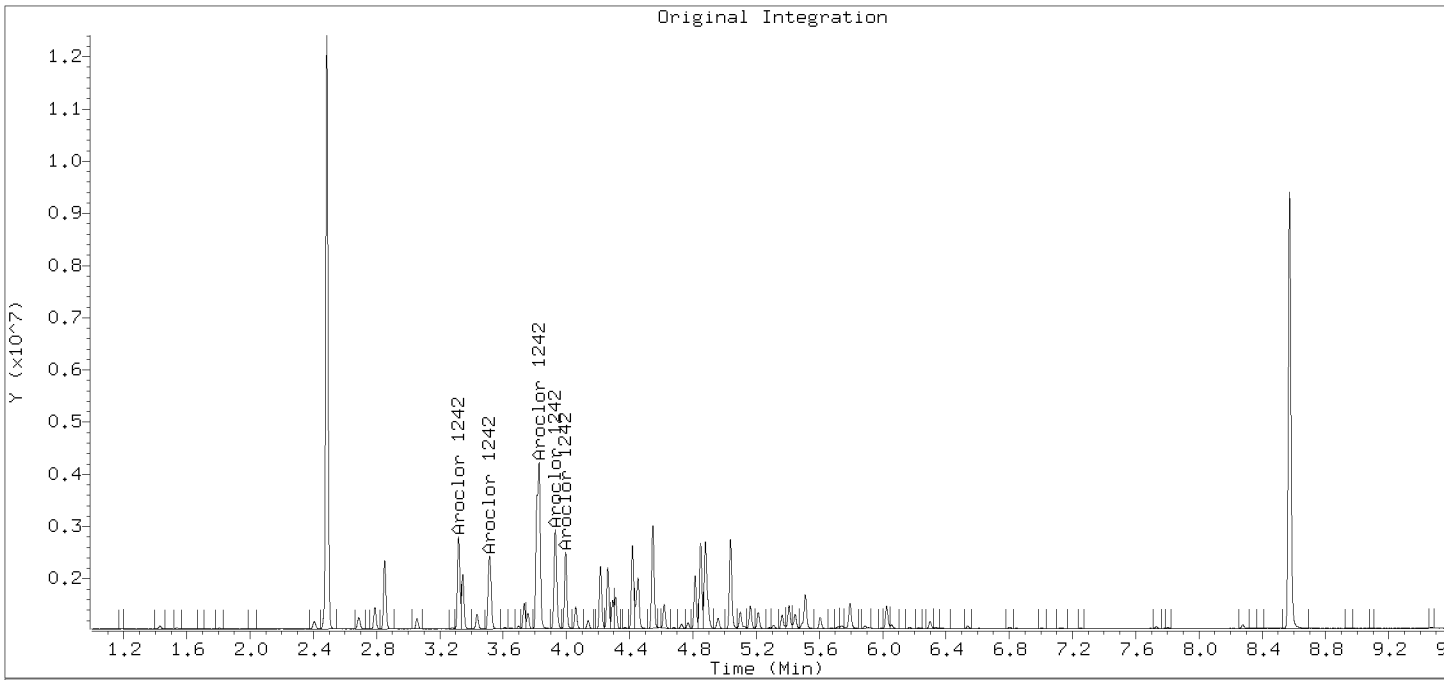
Operator: BLM

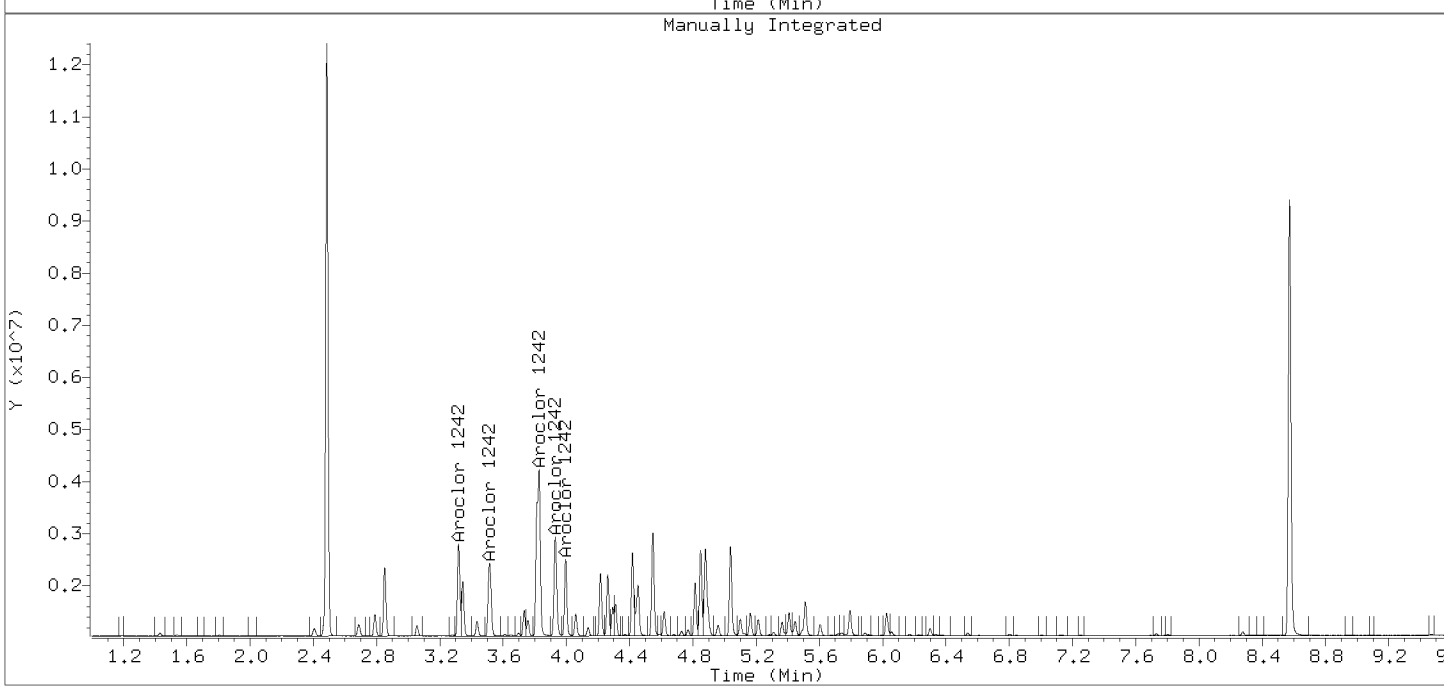
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618028.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL4B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 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
1.182	13142	9158	0.697	0.01		
1.429	100388	88167	0.878	0.12		
1.538	43436	37040	0.853	0.05		
1.802	27170	23817	0.877	0.03		
2.200	13193	7765	0.589	0.01		
2.404	223179	177740	0.796	0.26		
2.485	17637176	17309158	0.981	21.53		
2.687	332628	271512	0.816	0.39		
2.788	576258	556266	0.965	0.69		
2.850	1731132	1639872	0.947	2.07		
3.055	271375	257132	0.948	0.32		
3.199	9596	8183	0.853	0.01		
3.278	40145	29795	0.742	0.04		
3.318	2329240	2178022	0.935	2.79	3 Aroclor 1242	BA
3.344	1365925	1274431	0.933	1.63		
3.434	376796	349333	0.927	0.45		
3.514	2361399	1699901	0.720	2.82	3 Aroclor 1242	BA
3.611	53162	49737	0.936	0.06		
3.648	38548	26960	0.699	0.04		
3.697	65654	64327	0.980	0.07		
3.732	603958	618832	1.025	0.72		
3.756	391796	382124	0.975	0.46		
3.828	6706645	3996192	0.596	8.03	3 Aroclor 1242	BA
3.929	2857802	2355014	0.824	3.42	3 Aroclor 1242	BA
3.994	1922508	1833827	0.954	2.30	3 Aroclor 1242	BA
4.059	555199	530529	0.956	0.66		
4.136	222505	199818	0.898	0.26		
4.215	1575639	1501683	0.953	1.88		
4.261	1524934	1467406	0.962	1.82		
4.293	649073	667869	1.029	0.77		
4.311	810435	768258	0.948	0.97		
4.371	43433	37094	0.854	0.05		
4.417	2107983	1937856	0.919	2.52		
4.452	1647097	1208682	0.734	1.97		
4.546	2757523	2530813	0.918	3.30		
4.617	639793	601712	0.940	0.76		
4.681	44151	33585	0.761	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	132122	115497	0.874	0.15	
4.768	152881	144940	0.948	0.18	
4.814	1304656	1285158	0.985	1.56	
4.848	2176719	2065105	0.949	2.60	
4.878	2810648	2043331	0.727	3.36	
4.958	313624	254506	0.811	0.37	
5.038	2364110	2159153	0.913	2.83	
5.099	500540	389011	0.777	0.59	
5.163	588453	534323	0.908	0.70	
5.213	446583	410279	0.919	0.53	
5.283	33027	31901	0.966	0.03	
5.308	101588	84023	0.827	0.12	
5.363	379663	323299	0.852	0.45	
5.407	645531	557984	0.864	0.77	
5.447	411135	369925	0.900	0.49	
5.510	1059127	856260	0.808	1.26	
5.604	309697	267220	0.863	0.37	
5.676	26819	20072	0.748	0.03	
5.717	59263	49321	0.832	0.07	
5.742	85889	77700	0.905	0.10	
5.763	25900	36740	1.419	0.03	
5.792	730478	608087	0.832	0.87	
5.888	108449	69349	0.639	0.12	
5.993	23548	21446	0.911	0.02	
6.024	621770	555127	0.893	0.74	
6.056	116744	93958	0.805	0.13	
6.169	44881	36731	0.818	0.05	
6.227	46866	28002	0.597	0.05	
6.299	198407	171669	0.865	0.23	
6.334	48913	37408	0.765	0.05	
6.372	34798	26791	0.770	0.04	
6.535	86352	62639	0.725	0.10	
6.608	17596	12479	0.709	0.02	
6.719	9324	8755	0.939	0.01	
6.803	41284	37893	0.918	0.04	
7.004	14125	13843	0.980	0.01	
7.122	30632	19166	0.626	0.03	
7.251	21667	14526	0.670	0.02	
7.694	10065	10273	1.021	0.01	
7.729	57227	51664	0.903	0.06	
7.800	40976	33029	0.806	0.04	
8.276	125210	109793	0.877	0.14	
8.377	17875	15033	0.841	0.02	
8.572	14386052	12725920	0.885	17.23	
9.089	27631	16553	0.599	0.03	
9.466	10052	7309	0.727	0.01	
9.961	14595	11352	0.778	0.01	
	83483509	73604153		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 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			
3.318	3.318	0.000	2329239	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	2361398	1.00000	0.94	0.00- 20.00	101.38	BA
3.827	3.827	0.000	6706645	1.00000	0.94	0.00- 20.00	287.93	BA
3.929	3.929	0.000	2857801	1.00000	0.94	0.00- 20.00	122.69	BA
3.994	3.995	-0.001	1922507	1.00000	0.94	0.00- 20.00	82.54	BA
Average of Peak Amounts =					0.93600			

QC Flag Legend

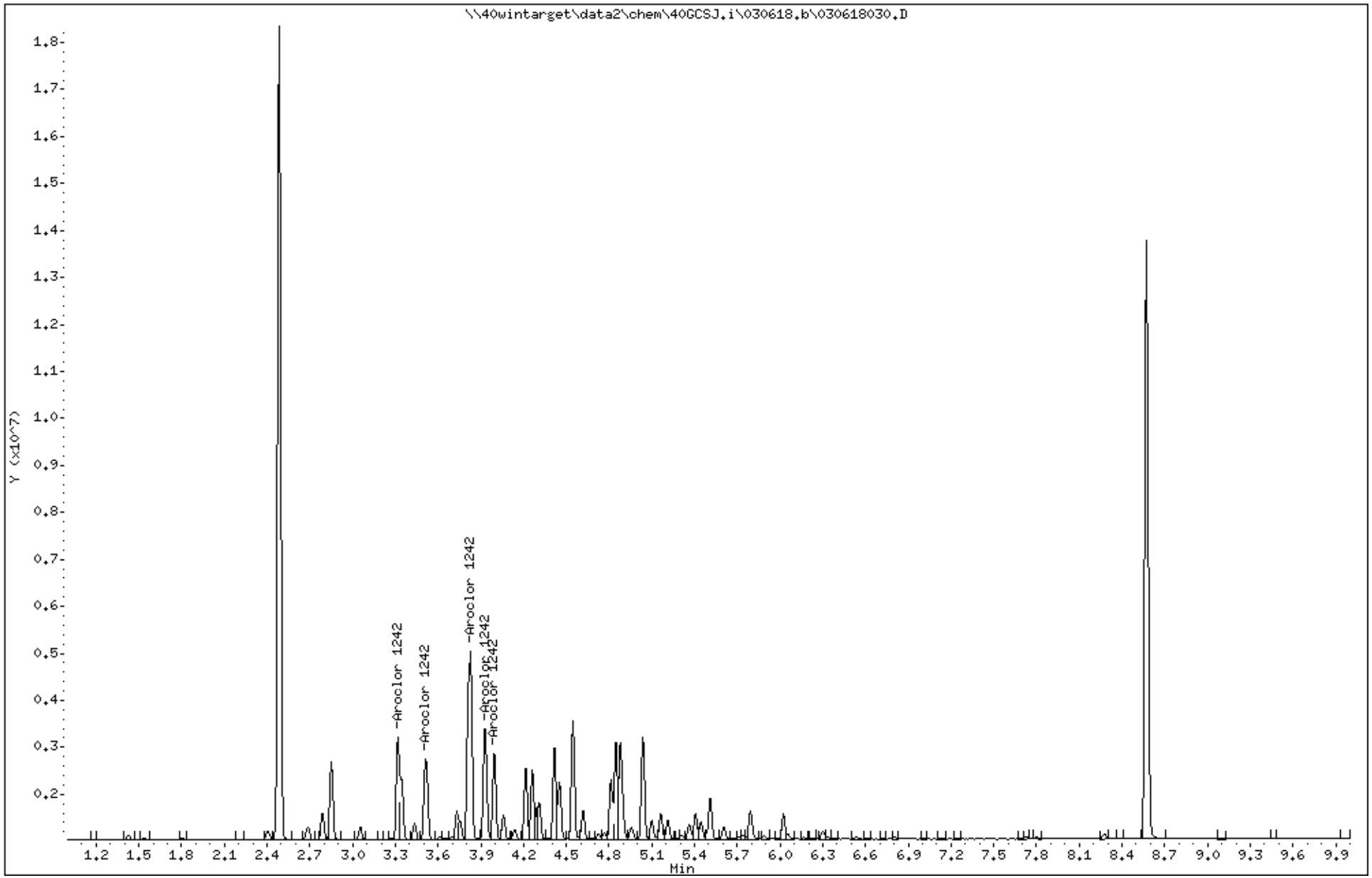
M - Compound response manually integrated.

Review Codes Legend

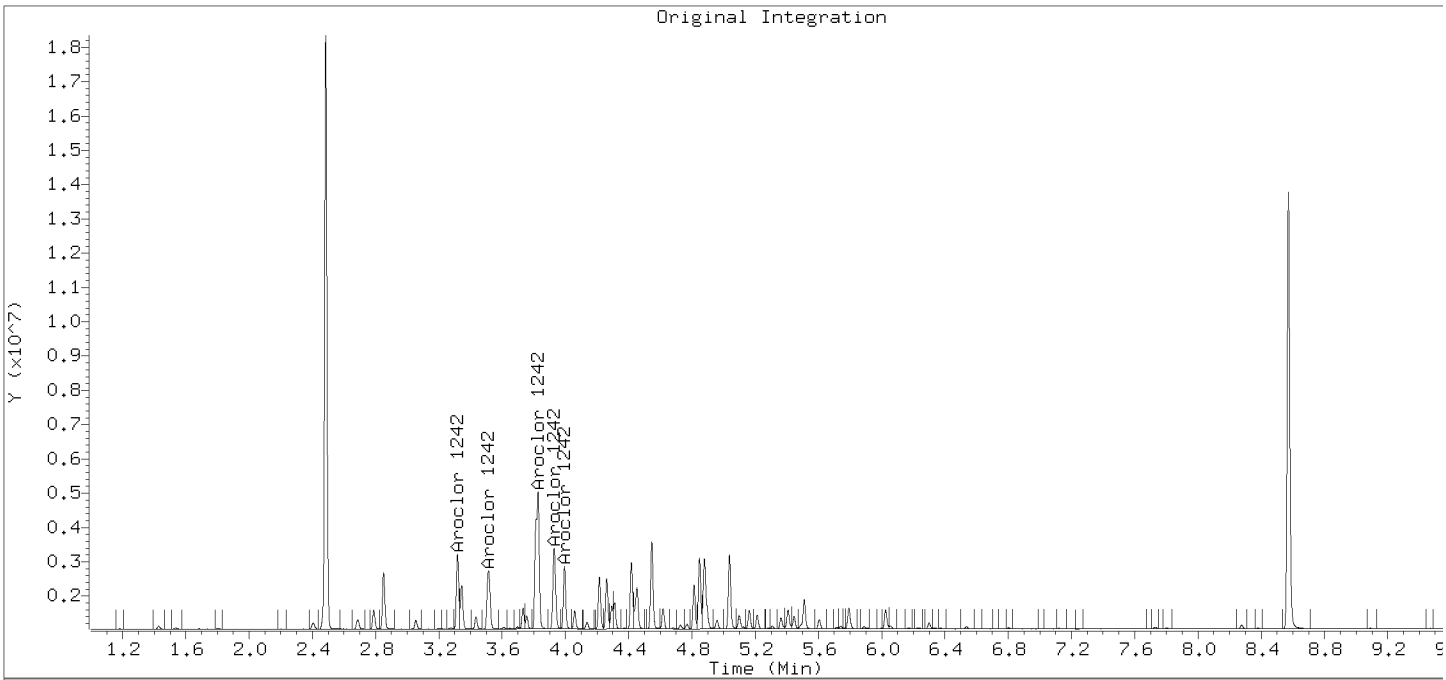
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

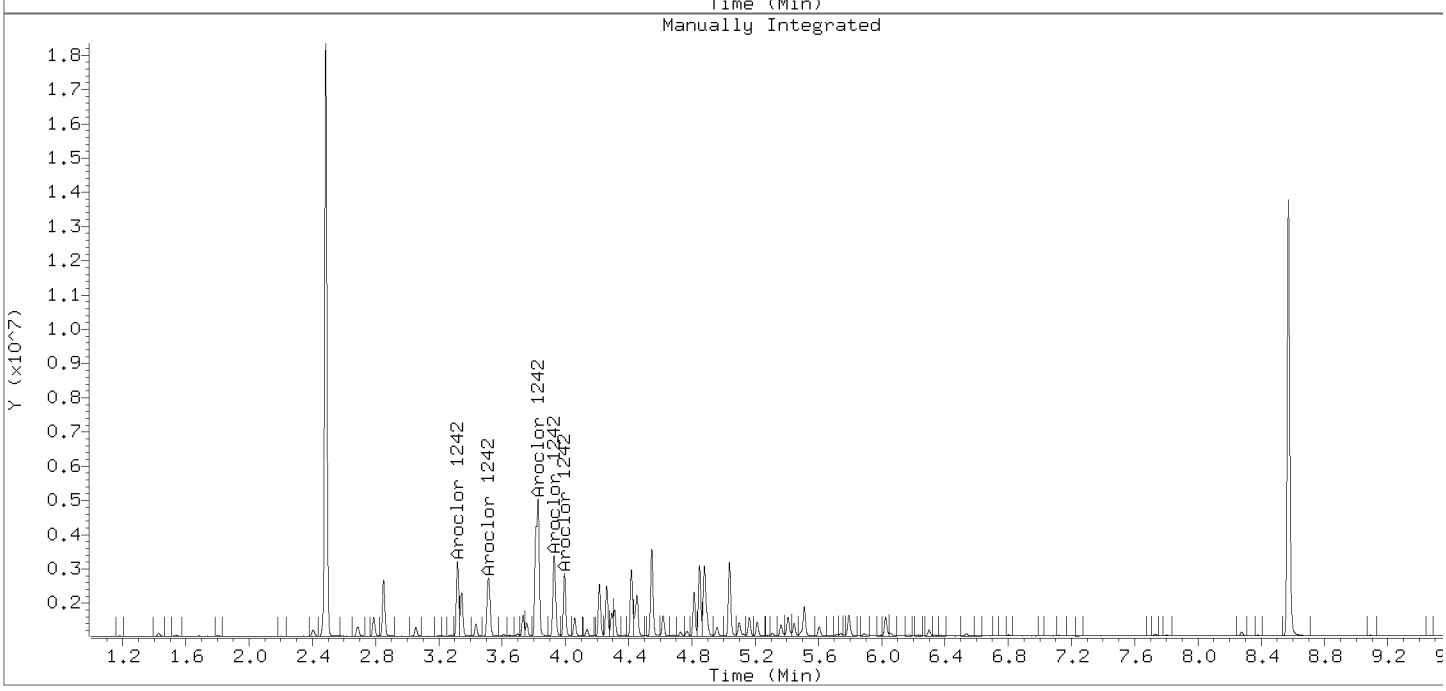
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618030.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL5B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 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
1.181	14305	12931	0.904	0.15		
2.484	1247615	1209145	0.969	13.39		
2.788	24449	24176	0.989	0.25		
2.851	42332	37681	0.890	0.44		
3.054	17847	15627	0.876	0.18		
3.319	154829	149314	0.964	1.63		
3.345	69818	62303	0.892	0.73		
3.434	21759	16384	0.753	0.22		
3.514	129337	91632	0.708	1.36		
3.732	41192	29456	0.715	0.43		
3.815	249582	260696	1.045	2.62		
3.827	243092	265599	1.093	2.56		
3.930	196862	149009	0.757	2.07		
3.994	130100	120464	0.926	1.37		
4.060	81123	71377	0.880	0.85		
4.135	37994	31819	0.837	0.40		
4.215	323817	309946	0.957	3.41		
4.261	252265	240506	0.953	2.65	6 Aroclor 1248	BA
4.293	108819	107853	0.991	1.14		
4.310	114993	111028	0.966	1.21		
4.418	386700	369661	0.956	4.07		
4.452	202370	173038	0.855	2.13		
4.546	444141	405258	0.912	4.67	6 Aroclor 1248	BA
4.618	103930	97669	0.940	1.09		
4.723	15775	14602	0.926	0.16		
4.768	26846	24690	0.920	0.28		
4.814	217596	209298	0.962	2.29	6 Aroclor 1248	BA
4.848	417341	413186	0.990	4.39		
4.879	538491	358710	0.666	5.67	6 Aroclor 1248	BA
4.956	69249	57131	0.825	0.72		
5.038	375736	339065	0.902	3.95	6 Aroclor 1248	BA
5.100	148135	110594	0.747	1.56		
5.163	166243	148041	0.891	1.75		
5.212	121348	109604	0.903	1.27		
5.313	32609	23414	0.718	0.34		
5.363	107678	94673	0.879	1.13		
5.408	174507	147282	0.844	1.83		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.447	107960	95389	0.884	1.13	
5.510	292671	230307	0.787	3.08	
5.606	86504	77757	0.899	0.91	
5.677	14791	13016	0.880	0.15	
5.715	25257	18019	0.713	0.26	
5.741	25694	22207	0.864	0.27	
5.793	207991	150871	0.725	2.19	
5.891	26284	18285	0.696	0.27	
6.024	187756	132978	0.708	1.97	
6.173	26666	15778	0.592	0.28	
6.301	55473	43247	0.780	0.58	
6.372	11356	9835	0.866	0.11	
6.509	11520	12779	1.109	0.12	
6.535	21081	15879	0.753	0.22	
6.720	14478	10691	0.738	0.15	
6.801	13412	10673	0.796	0.14	
7.001	12573	13352	1.062	0.13	
7.250	10465	7692	0.735	0.11	
7.384	10819	8597	0.795	0.11	
7.445	14986	9827	0.656	0.15	
8.276	19065	13591	0.713	0.20	
8.376	10132	9028	0.891	0.10	
8.572	1203814	1072809	0.891	12.67	
8.944	15824	11638	0.735	0.16	
9.963	17710	12713	0.718	0.18	
	9495108	8449820		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 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			
4.261	4.261	0.000	252264	0.10000	0.11	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	444140	0.10000	0.11	0.00- 20.00	176.06	BA
4.814	4.812	0.002	217595	0.10000	0.11	0.00- 20.00	86.26	BA
4.879	4.879	0.000	538491	0.10000	0.11	0.00- 20.00	213.46	BA
5.037	5.038	-0.001	375736	0.10000	0.10	0.00- 20.00	148.95	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

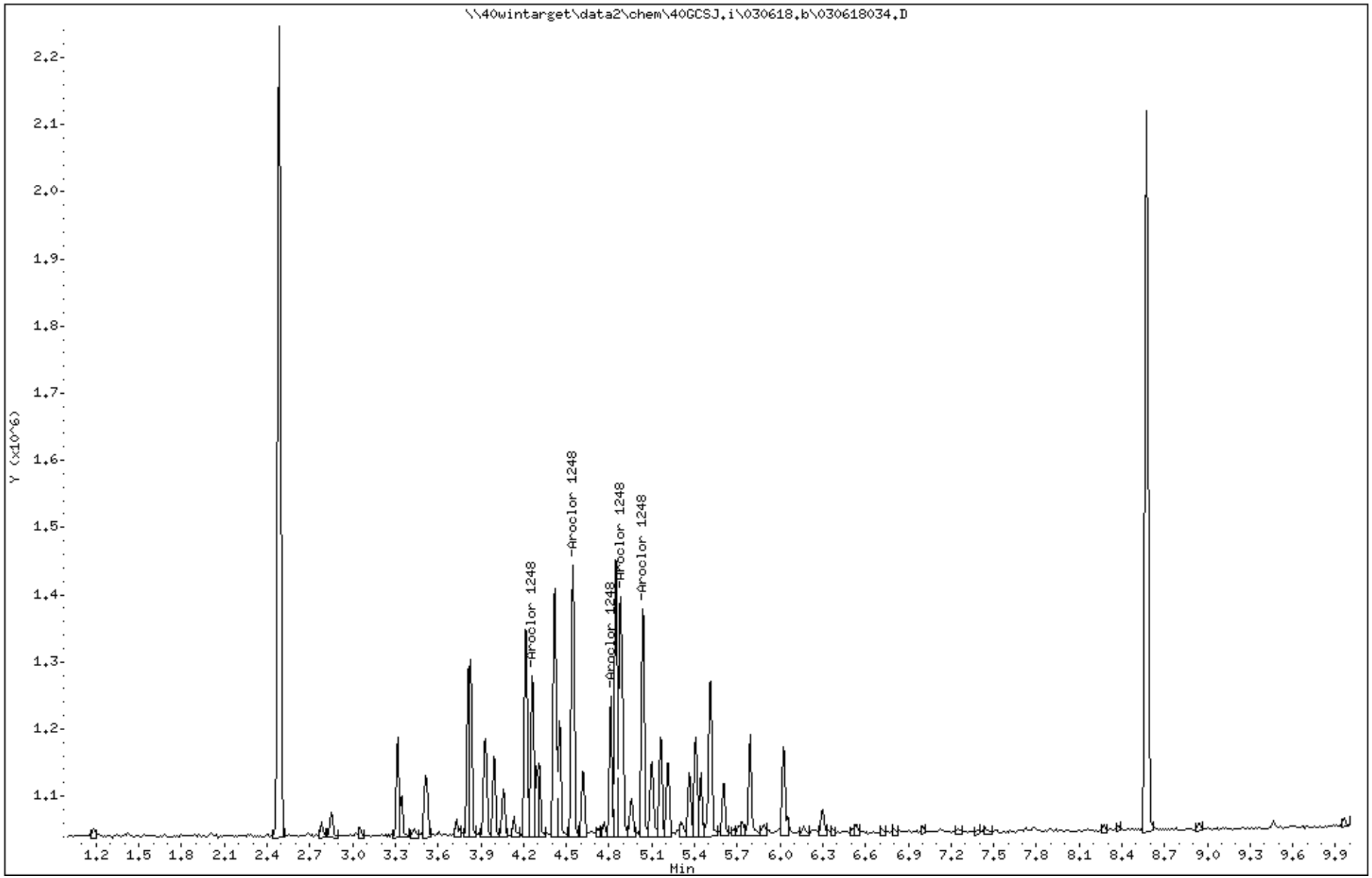
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

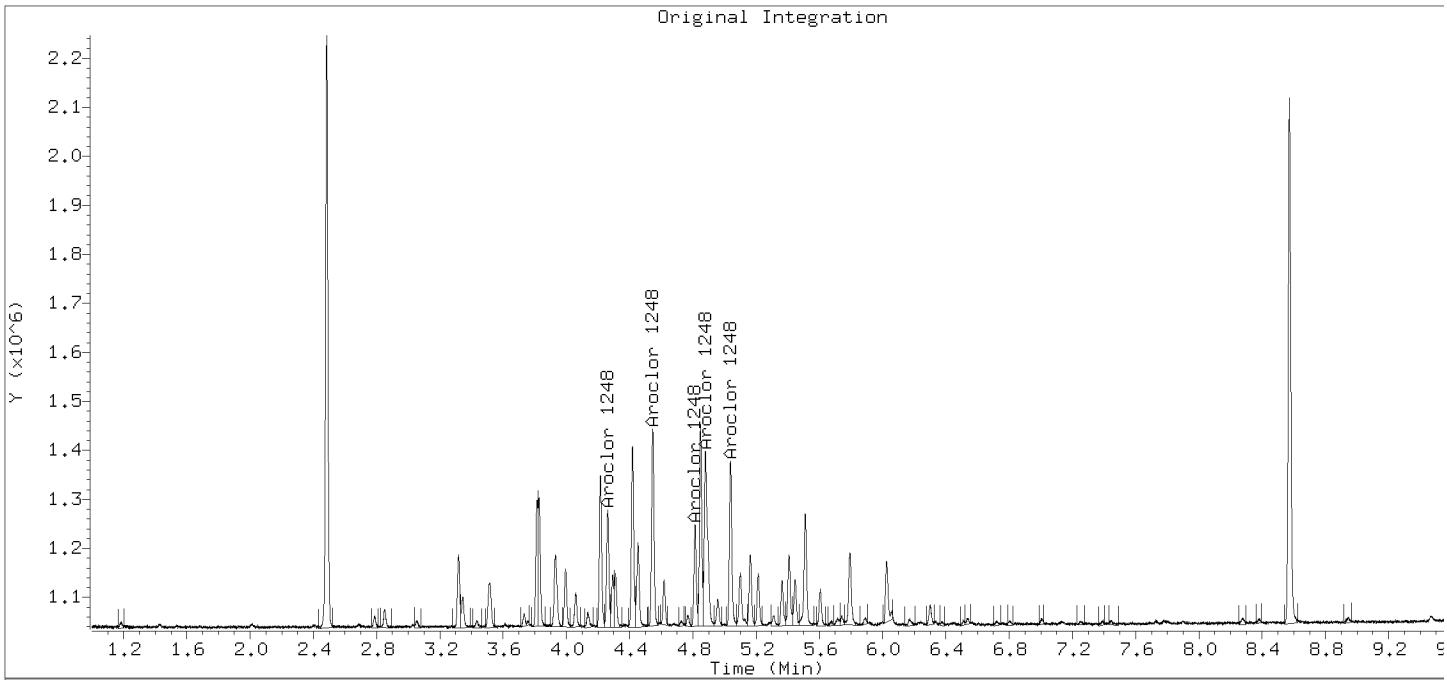
Operator: BLM

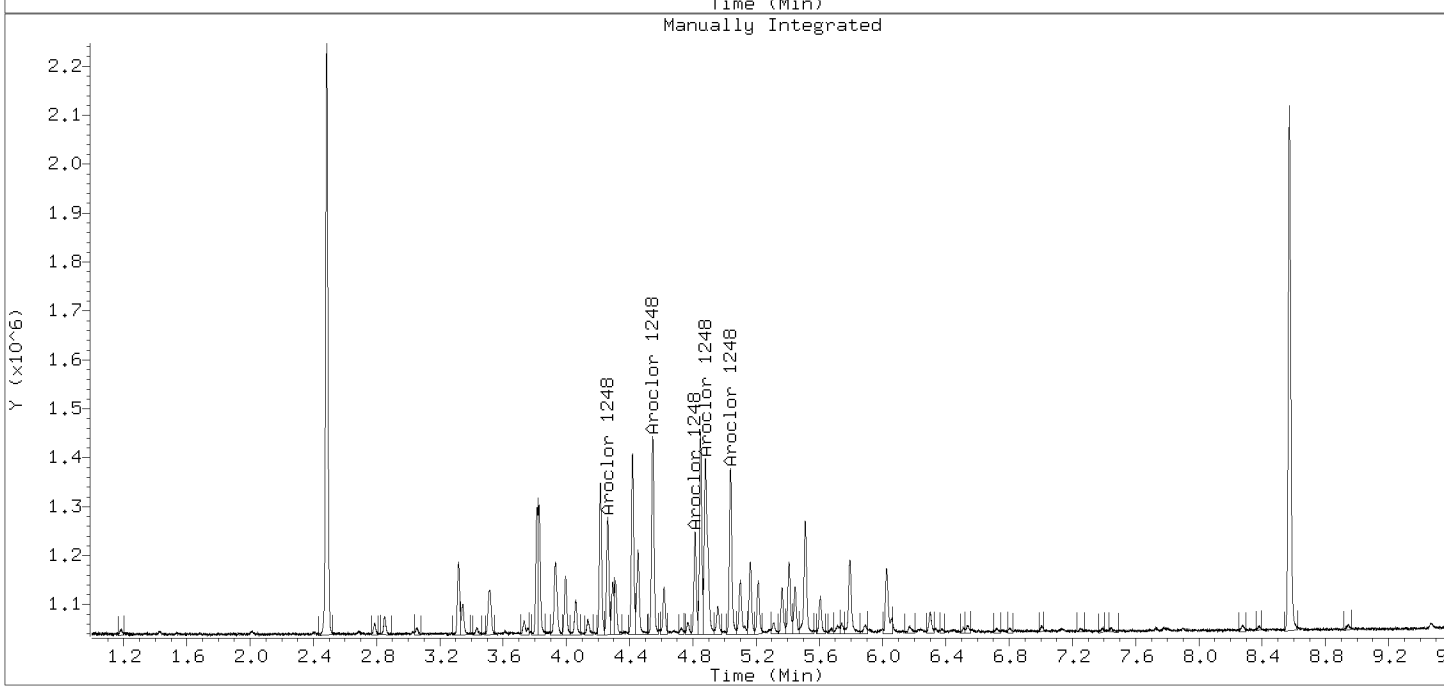
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618034.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL1D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 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
1.183	14828	12598	0.850	0.08		
1.430	17405	15532	0.892	0.09		
1.539	10978	9178	0.836	0.05		
2.484	2410492	2310272	0.958	13.49		
2.687	17007	12868	0.757	0.09		
2.788	48103	47022	0.978	0.26		
2.850	76500	74948	0.980	0.41		
3.054	25960	22998	0.886	0.14		
3.317	298832	283610	0.949	1.62		
3.344	124976	117615	0.941	0.68		
3.435	29128	26666	0.915	0.15		
3.515	253342	181031	0.715	1.37		
3.731	81061	56758	0.700	0.44		
3.815	462892	504630	1.090	2.51		
3.826	513591	533097	1.038	2.79		
3.930	374207	289234	0.773	2.03		
3.994	244564	239466	0.979	1.33		
4.058	144578	133216	0.921	0.78		
4.138	61375	54340	0.885	0.33		
4.215	629384	607757	0.966	3.42		
4.262	495628	473751	0.956	2.69	6 Aroclor 1248	BA
4.292	207266	214773	1.036	1.12		
4.310	218472	204865	0.938	1.18		
4.418	768532	734950	0.956	4.18		
4.453	378840	319389	0.843	2.06		
4.546	893337	815571	0.913	4.86	6 Aroclor 1248	BA
4.619	201356	185248	0.920	1.09		
4.680	15861	10971	0.692	0.08		
4.727	29910	23588	0.789	0.16		
4.768	49430	45109	0.913	0.26		
4.813	420194	408578	0.972	2.28	6 Aroclor 1248	BA
4.849	831772	785146	0.944	4.52		
4.879	1060573	728567	0.687	5.77	6 Aroclor 1248	BA
4.957	136900	106494	0.778	0.74		
5.037	754040	696546	0.924	4.10	6 Aroclor 1248	BA
5.100	272713	215866	0.792	1.48		
5.163	325949	288755	0.886	1.77		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	228553	210074	0.919	1.24	
5.284	17412	16457	0.945	0.09	
5.311	55636	44138	0.793	0.30	
5.365	206530	172716	0.836	1.12	
5.407	337971	295228	0.874	1.83	
5.446	206711	185231	0.896	1.12	
5.511	560479	467877	0.835	3.05	
5.606	165540	145657	0.880	0.90	
5.677	22681	19784	0.872	0.12	
5.717	37903	28891	0.762	0.20	
5.740	60086	37215	0.619	0.32	
5.793	371069	303747	0.819	2.02	
5.889	58211	32981	0.567	0.31	
5.992	13175	13785	1.046	0.07	
6.025	314967	267323	0.849	1.71	
6.057	68435	55542	0.812	0.37	
6.170	38384	24308	0.633	0.20	
6.299	99670	82914	0.832	0.54	
6.332	23115	17884	0.774	0.12	
6.374	20547	14764	0.719	0.11	
6.512	20781	18606	0.895	0.11	
6.536	45734	28211	0.617	0.24	
6.605	13055	7483	0.573	0.07	
6.719	20846	19042	0.913	0.11	
6.807	17328	17245	0.995	0.09	
7.005	39579	28763	0.727	0.21	
7.128	13661	9160	0.671	0.07	
7.254	16230	12319	0.759	0.08	
7.391	15959	13660	0.856	0.08	
7.448	19126	12843	0.671	0.10	
7.727	14015	12218	0.872	0.07	
7.904	9772	9677	0.990	0.05	
8.273	24829	20353	0.820	0.13	
8.382	9612	9180	0.955	0.05	
8.572	2222844	1814975	0.817	12.10	
8.942	19336	12310	0.637	0.10	
9.470	19278	15347	0.796	0.10	
9.966	19855	14911	0.751	0.10	
	18368893	16303822		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 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			
4.261	4.261	0.000	495628	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	893336	0.20000	0.22	0.00- 20.00	180.24	BA
4.813	4.812	0.001	420194	0.20000	0.21	0.00- 20.00	84.78	BA
4.878	4.879	-0.001	1060573	0.20000	0.21	0.00- 20.00	213.99	BA
5.036	5.038	-0.002	754040	0.20000	0.21	0.00- 20.00	152.14	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

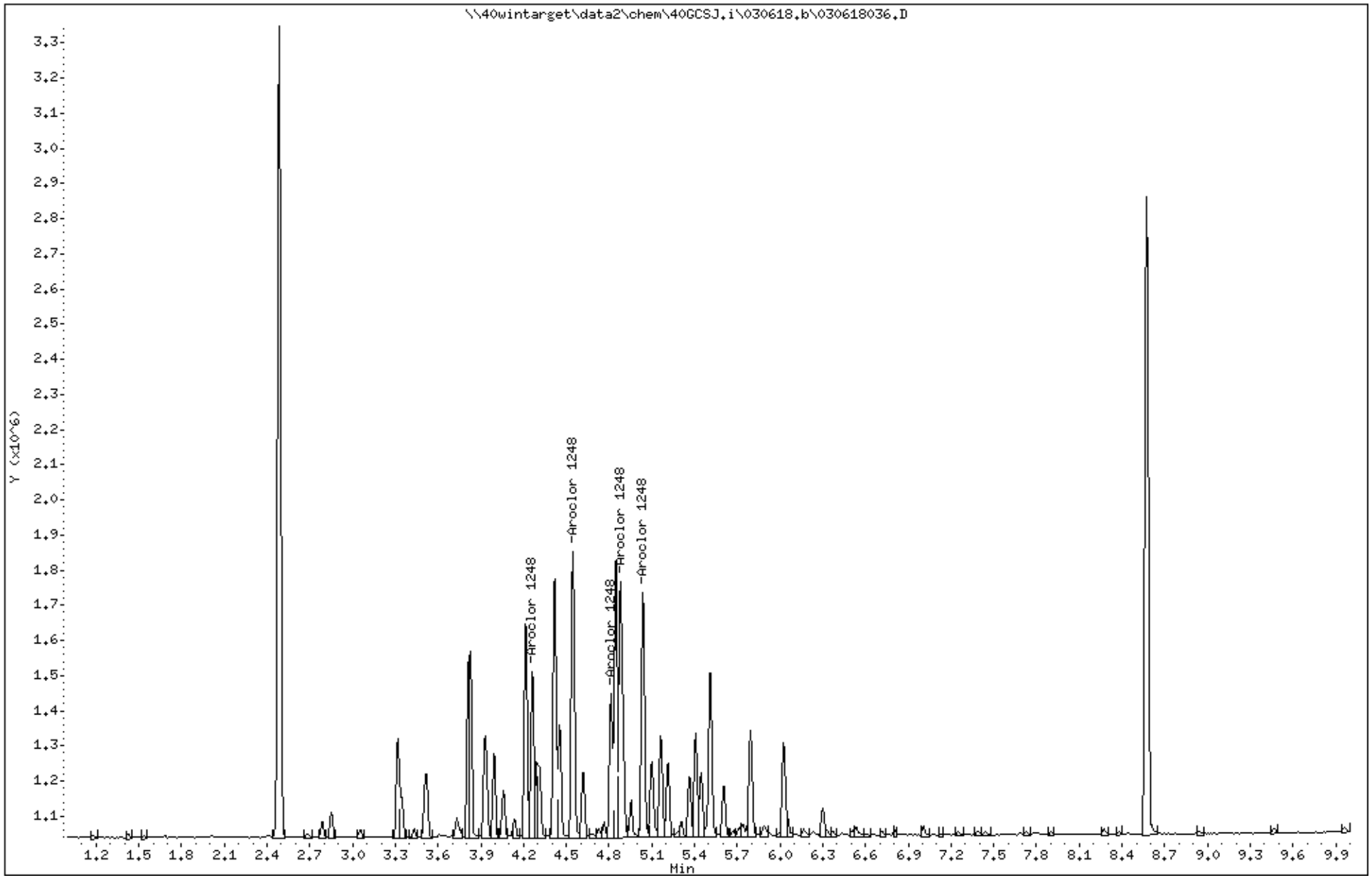
M - Compound response manually integrated.

Review Codes Legend

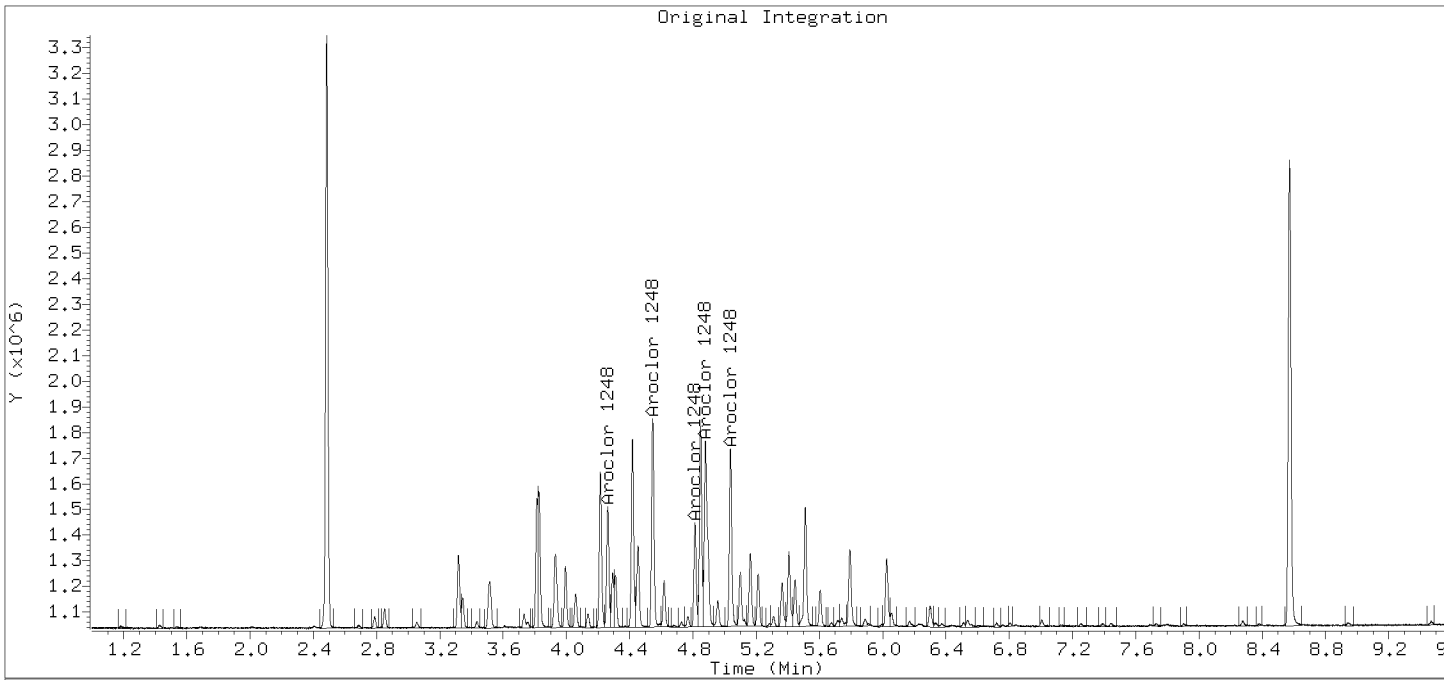
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

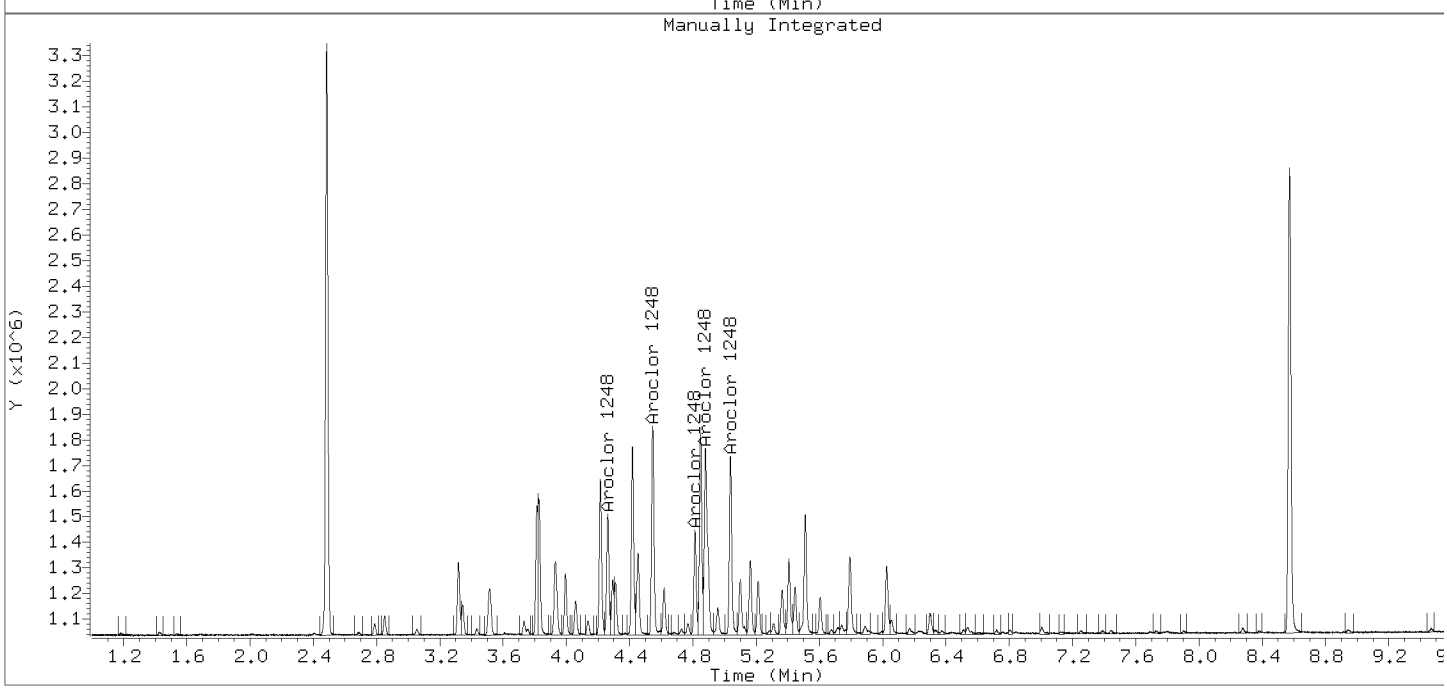
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618036.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL2D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 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
1.183	52291	42958	0.822	0.11		
1.429	43894	31713	0.722	0.09		
1.534	22011	15352	0.697	0.05		
1.684	14849	11921	0.803	0.03		
2.012	36627	27328	0.746	0.08		
2.407	26546	19456	0.733	0.06		
2.484	6017126	5772700	0.959	14.16		
2.690	32471	25048	0.771	0.07		
2.787	113251	108295	0.956	0.25		
2.852	188762	171319	0.908	0.42		
3.029	16871	18416	1.092	0.03		
3.055	67710	56713	0.838	0.15		
3.317	703226	686995	0.977	1.60		
3.344	286830	276759	0.965	0.65		
3.435	67890	58817	0.866	0.15		
3.516	596412	432178	0.725	1.35		
3.611	19167	18609	0.971	0.04		
3.647	15129	9511	0.629	0.03		
3.732	135042	128551	0.952	0.30		
3.756	64325	57019	0.886	0.14		
3.813	1062140	1201939	1.132	2.41		
3.826	1285788	1271741	0.989	2.92		
3.930	900477	692801	0.769	2.04		
3.994	605988	570061	0.941	1.37		
4.058	351201	319673	0.910	0.79		
4.137	149029	131722	0.884	0.33		
4.215	1475927	1383740	0.938	3.35		
4.261	1173198	1126600	0.960	2.66	6 Aroclor 1248	BA
4.293	494927	502286	1.015	1.12		
4.310	515717	488015	0.946	1.17		
4.417	1799324	1700045	0.945	4.09		
4.452	888654	777134	0.875	2.02		
4.546	2052388	1889189	0.920	4.66	6 Aroclor 1248	BA
4.588	34383	33944	0.987	0.07		
4.618	476094	438433	0.921	1.08		
4.681	29129	21872	0.751	0.06		
4.727	64061	51195	0.799	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	110931	104719	0.944	0.25	
4.813	1017191	989120	0.972	2.31	6 Aroclor 1248
4.848	1949790	1821792	0.934	4.43	
4.879	2527488	1652488	0.654	5.75	6 Aroclor 1248
4.957	303686	249082	0.820	0.69	
5.038	1794002	1655561	0.923	4.08	6 Aroclor 1248
5.100	643410	513336	0.798	1.46	
5.162	765077	698728	0.913	1.74	
5.213	547175	504652	0.922	1.24	
5.284	41401	37162	0.898	0.09	
5.308	120103	105343	0.877	0.27	
5.363	470348	418426	0.890	1.07	
5.407	811478	707819	0.872	1.84	
5.445	498126	442022	0.887	1.13	
5.510	1346051	1105489	0.821	3.06	
5.605	392604	337924	0.861	0.89	
5.674	48073	38822	0.808	0.10	
5.717	86755	62682	0.723	0.19	
5.740	101326	88143	0.870	0.23	
5.765	28818	38498	1.336	0.06	
5.792	911257	762608	0.837	2.07	
5.889	94463	79681	0.844	0.21	
5.913	50133	31292	0.624	0.11	
5.994	30626	28514	0.931	0.06	
6.025	762038	662252	0.869	1.73	
6.055	160892	129589	0.805	0.36	
6.171	81256	53475	0.658	0.18	
6.228	54811	30043	0.548	0.12	
6.300	235601	196601	0.834	0.53	
6.333	46391	39165	0.844	0.10	
6.376	41268	29678	0.719	0.09	
6.447	37982	15949	0.420	0.08	
6.509	37155	37405	1.007	0.08	
6.537	96382	65323	0.678	0.21	
6.604	13761	11378	0.827	0.03	
6.719	40218	33312	0.828	0.09	
6.759	20105	17496	0.870	0.04	
6.803	43393	37801	0.871	0.09	
6.843	24388	14465	0.593	0.05	
6.941	11214	8137	0.726	0.02	
7.004	73324	59305	0.809	0.16	
7.126	31431	17422	0.554	0.07	
7.250	27971	25551	0.913	0.06	
7.391	30533	26580	0.871	0.06	
7.444	27775	25655	0.924	0.06	
7.693	17906	15318	0.855	0.04	
7.728	28913	24590	0.850	0.06	
7.779	18403	15964	0.867	0.04	
7.802	17401	15137	0.870	0.03	
7.901	30922	23185	0.750	0.07	
8.276	52635	47411	0.901	0.11	
8.380	33122	21479	0.648	0.07	
8.571	5194473	4505821	0.867	11.81	
8.943	27069	16672	0.616	0.06	
9.470	33315	19626	0.589	0.07	
9.960	28297	18719	0.662	0.06	
	43949512	39304455		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 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			
4.261	4.261	0.000	1173198	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2052387	0.50000	0.49	0.00- 20.00	174.94	BA
4.813	4.812	0.001	1017190	0.50000	0.50	0.00- 20.00	86.70	BA
4.879	4.879	0.000	2527488	0.50000	0.50	0.00- 20.00	215.44	BA
5.037	5.038	-0.001	1794001	0.50000	0.50	0.00- 20.00	152.92	BA
Average of Peak Amounts =					0.49800			

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\40GCSJ.i\030618.b\030618038.D

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

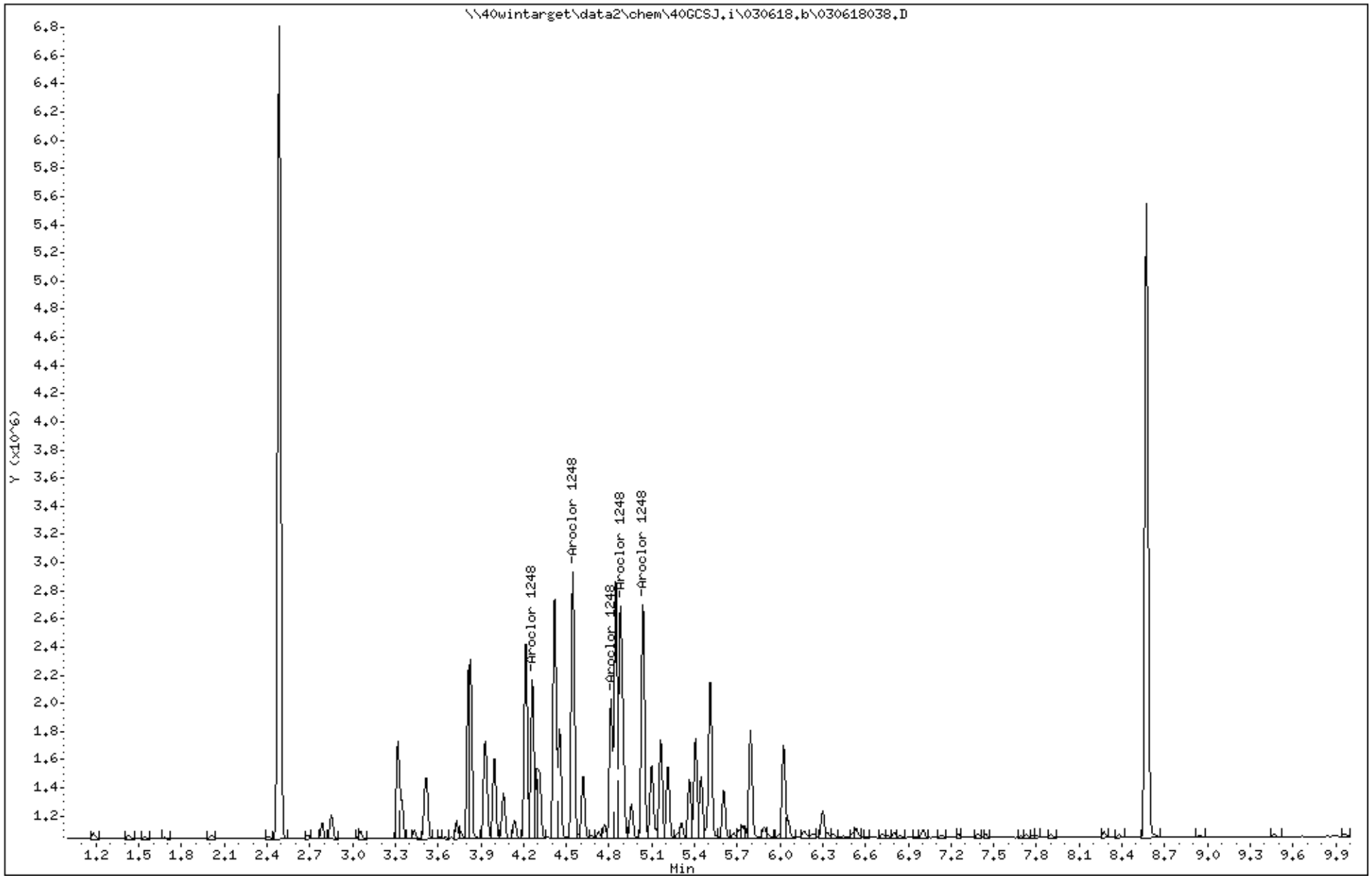
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

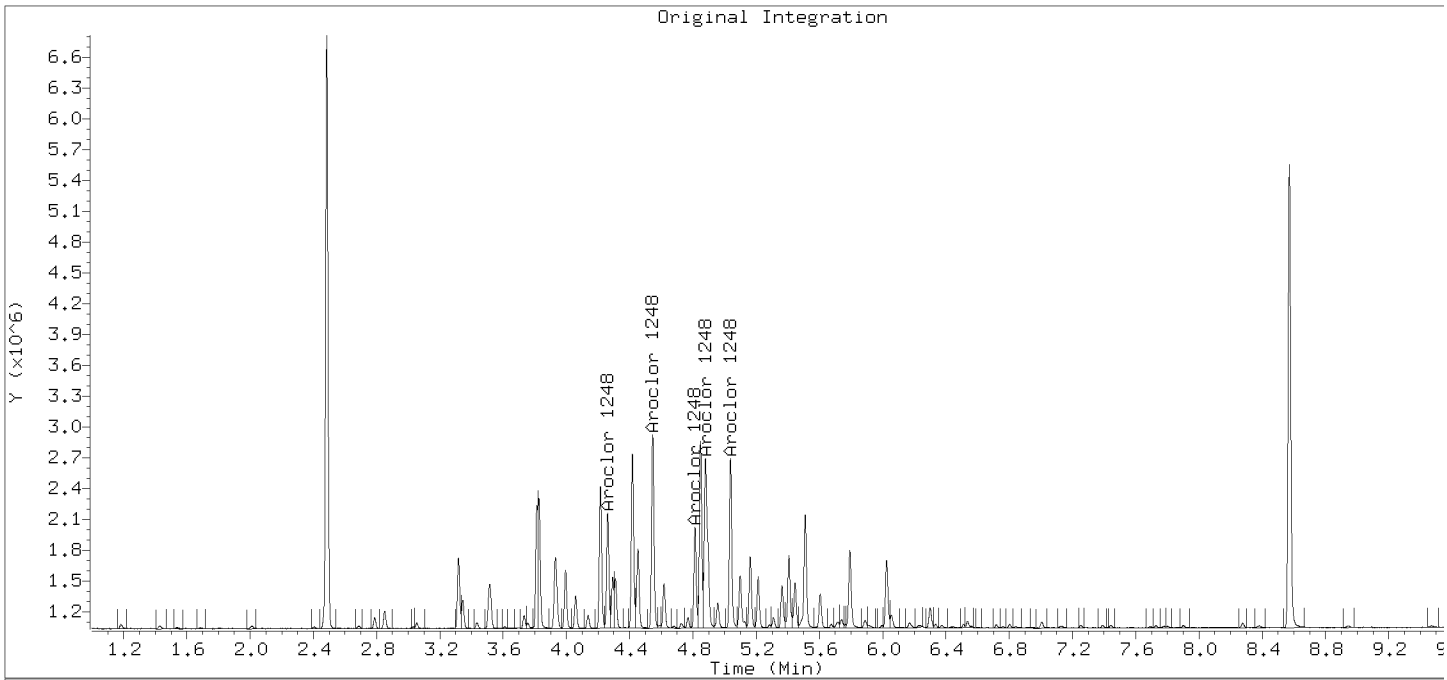
Operator: BLM

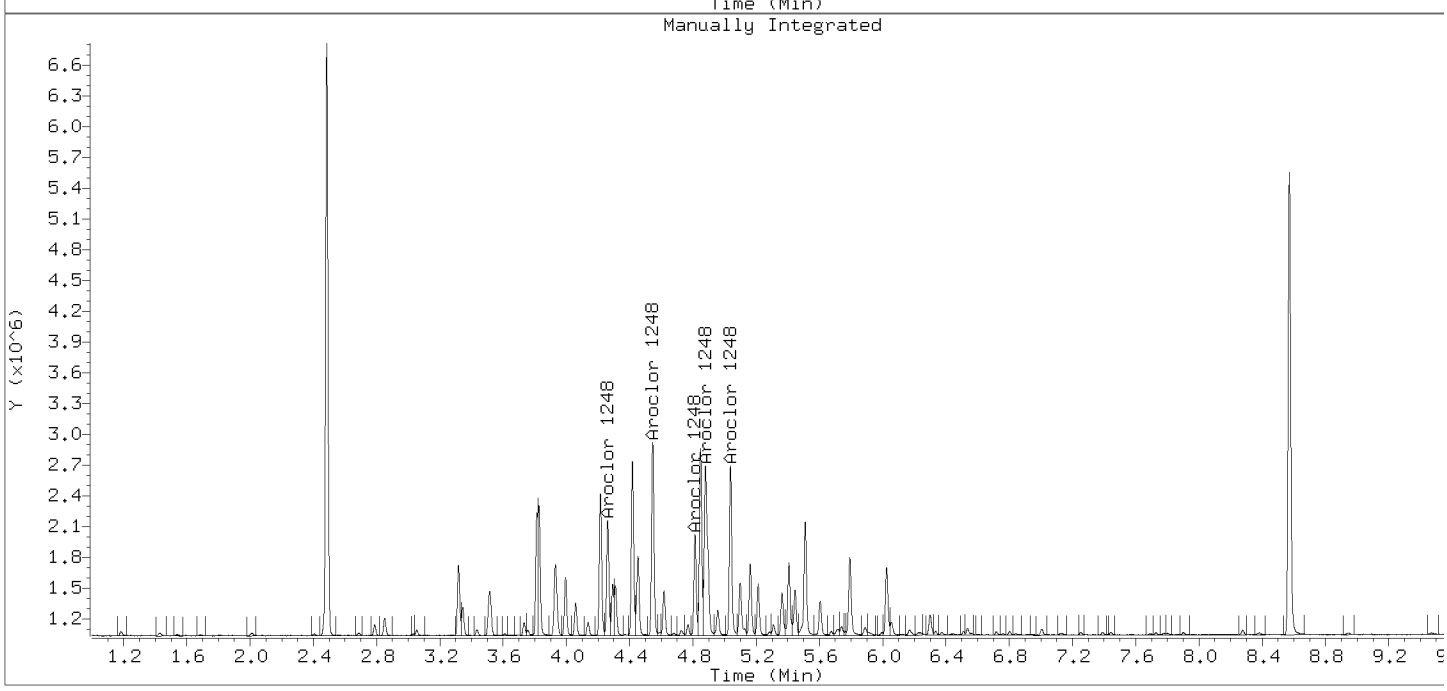
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618038.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL3D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 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
1.184	23783	14012	0.589	0.03		
1.430	68772	56288	0.818	0.09		
1.538	27818	21841	0.785	0.03		
2.406	41368	29218	0.706	0.05		
2.485	11662105	11112795	0.953	17.14		
2.688	47215	38573	0.817	0.06		
2.788	203552	191980	0.943	0.29		
2.851	287413	258349	0.899	0.41		
3.055	100338	85256	0.850	0.14		
3.318	1056102	1019716	0.966	1.50		
3.345	441526	421992	0.956	0.63		
3.434	97081	90204	0.929	0.13		
3.515	910659	658598	0.723	1.30		
3.611	32844	31062	0.946	0.04		
3.651	12163	10814	0.889	0.01		
3.695	12227	11029	0.902	0.01		
3.732	195496	195587	1.000	0.27		
3.756	83420	81444	0.976	0.11		
3.814	1567662	1791160	1.143	2.24		
3.827	1917579	1885095	0.983	2.74		
3.931	1340766	1031743	0.770	1.91		
3.994	893318	859435	0.962	1.27		
4.059	507945	474678	0.935	0.72		
4.137	209816	195120	0.930	0.29		
4.216	2174966	1996009	0.918	3.10		
4.262	1747290	1634508	0.935	2.49	6 Aroclor 1248	BA
4.293	719186	757380	1.053	1.02		
4.311	795770	743692	0.935	1.13		
4.418	2683345	2471775	0.921	3.83		
4.453	1336671	1172433	0.877	1.91		
4.546	3077708	2813367	0.914	4.39	6 Aroclor 1248	BA
4.592	50782	48315	0.951	0.07		
4.618	721531	680792	0.944	1.03		
4.682	39778	31109	0.782	0.05		
4.727	90436	74601	0.825	0.12		
4.768	164069	159220	0.970	0.23		
4.814	1529584	1458936	0.954	2.18	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.849	2912545	2807178	0.964	4.16	
4.879	3756486	2507650	0.668	5.36	6 Aroclor 1248
4.959	446081	367801	0.825	0.63	
5.038	2709000	2506705	0.925	3.87	6 Aroclor 1248
5.100	972027	775936	0.798	1.38	
5.163	1142709	1049261	0.918	1.63	
5.213	827376	755691	0.913	1.18	
5.285	59301	53069	0.895	0.08	
5.309	180372	153614	0.852	0.25	
5.364	725905	634309	0.874	1.03	
5.408	1217313	1074540	0.883	1.73	
5.447	755270	658840	0.872	1.07	
5.510	2000999	1684613	0.842	2.85	
5.605	577093	528233	0.915	0.82	
5.676	67052	59659	0.890	0.09	
5.718	120890	90293	0.747	0.17	
5.742	139371	130806	0.939	0.19	
5.763	48200	56761	1.178	0.06	
5.793	1366535	1115283	0.816	1.95	
5.888	190518	116597	0.612	0.27	
5.995	43830	40905	0.933	0.06	
6.025	1167064	1029378	0.882	1.66	
6.056	233192	189145	0.811	0.33	
6.171	117974	81314	0.689	0.16	
6.229	73058	40661	0.557	0.10	
6.299	353507	303097	0.857	0.50	
6.334	67864	56427	0.831	0.09	
6.373	56825	43449	0.765	0.08	
6.434	31012	16905	0.545	0.04	
6.512	66221	56258	0.850	0.09	
6.538	139332	94112	0.675	0.19	
6.604	20526	17194	0.838	0.02	
6.665	17050	12889	0.756	0.02	
6.720	59223	48657	0.822	0.08	
6.761	28886	25179	0.872	0.04	
6.804	64363	56227	0.874	0.09	
6.841	26723	19155	0.717	0.03	
7.005	107576	96122	0.894	0.15	
7.124	36317	20799	0.573	0.05	
7.253	47298	40406	0.854	0.06	
7.284	14796	11885	0.803	0.02	
7.392	50134	42799	0.854	0.07	
7.444	51593	44890	0.870	0.07	
7.690	21646	19744	0.912	0.03	
7.730	50158	42338	0.844	0.07	
7.804	37842	29484	0.779	0.05	
7.903	37446	35295	0.943	0.05	
8.276	107716	86008	0.798	0.15	
8.382	16440	13810	0.840	0.02	
8.573	9713869	8374648	0.862	13.88	
9.468	13816	9740	0.705	0.01	
9.968	11075	9075	0.819	0.01	
	69971497	62742960		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 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			
4.261	4.261	0.000	1747289	0.80000	0.74	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3077707	0.80000	0.74	0.00- 20.00	176.14	BA
4.813	4.812	0.001	1529584	0.80000	0.75	0.00- 20.00	87.54	BA
4.878	4.879	-0.001	3756485	0.80000	0.74	0.00- 20.00	214.99	BA
5.038	5.038	0.000	2708999	0.80000	0.75	0.00- 20.00	155.04	BA
Average of Peak Amounts =					0.74400			

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\40GCSJ.i\030618.b\030618040.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

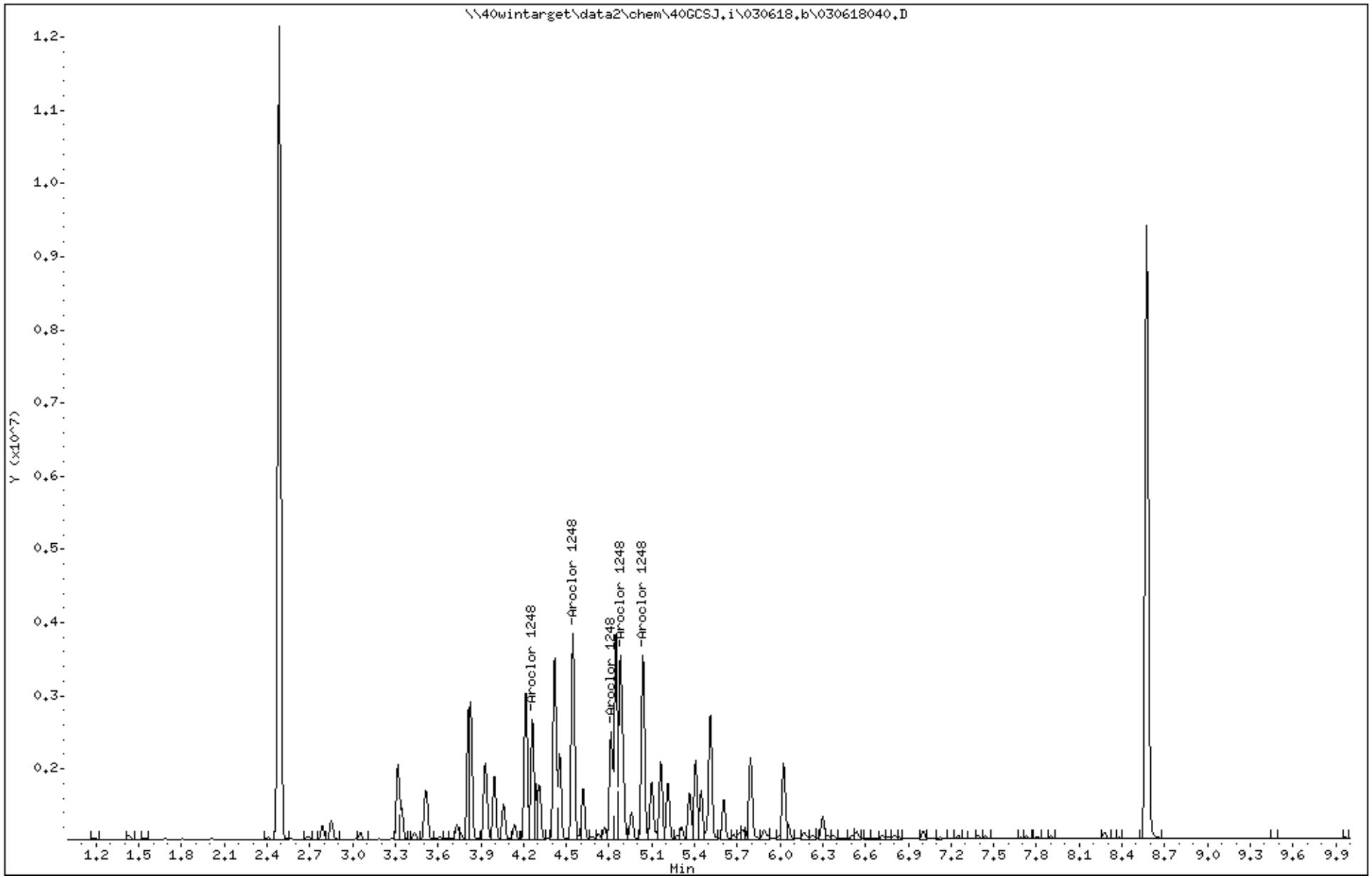
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

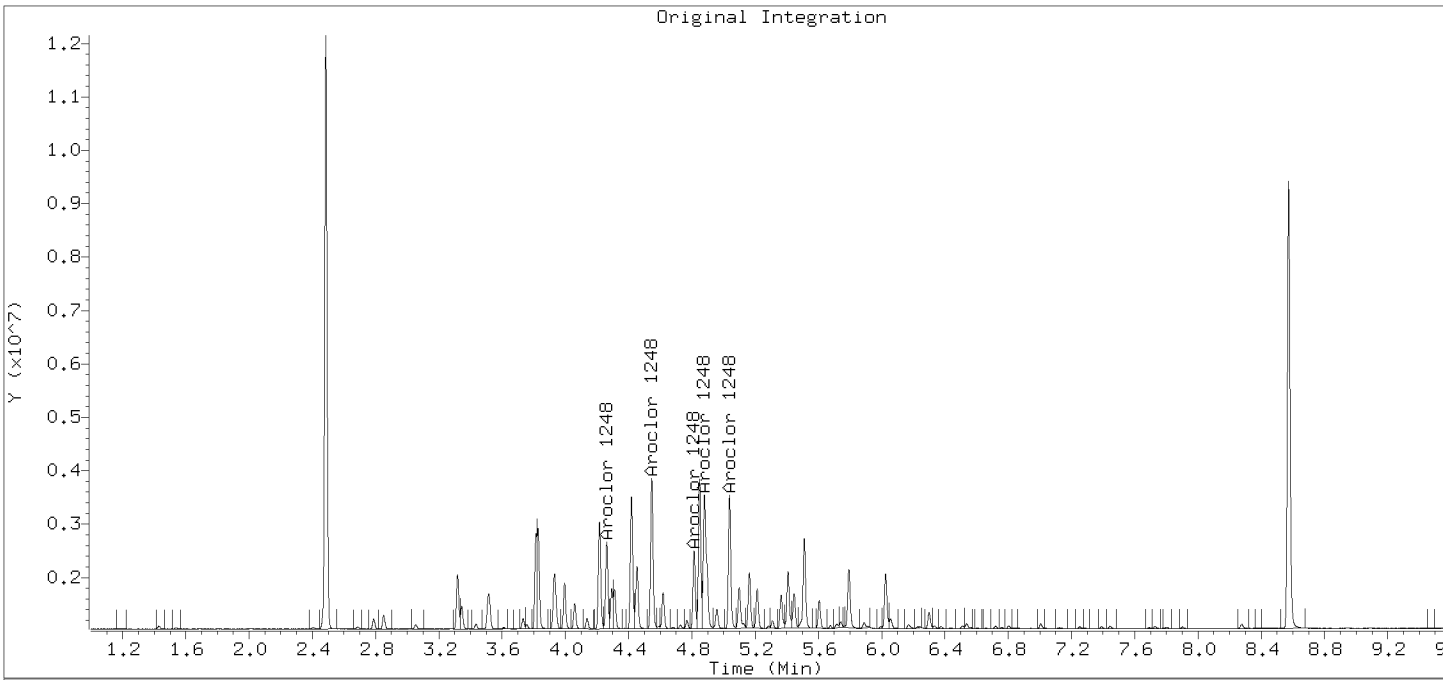
Operator: BLM

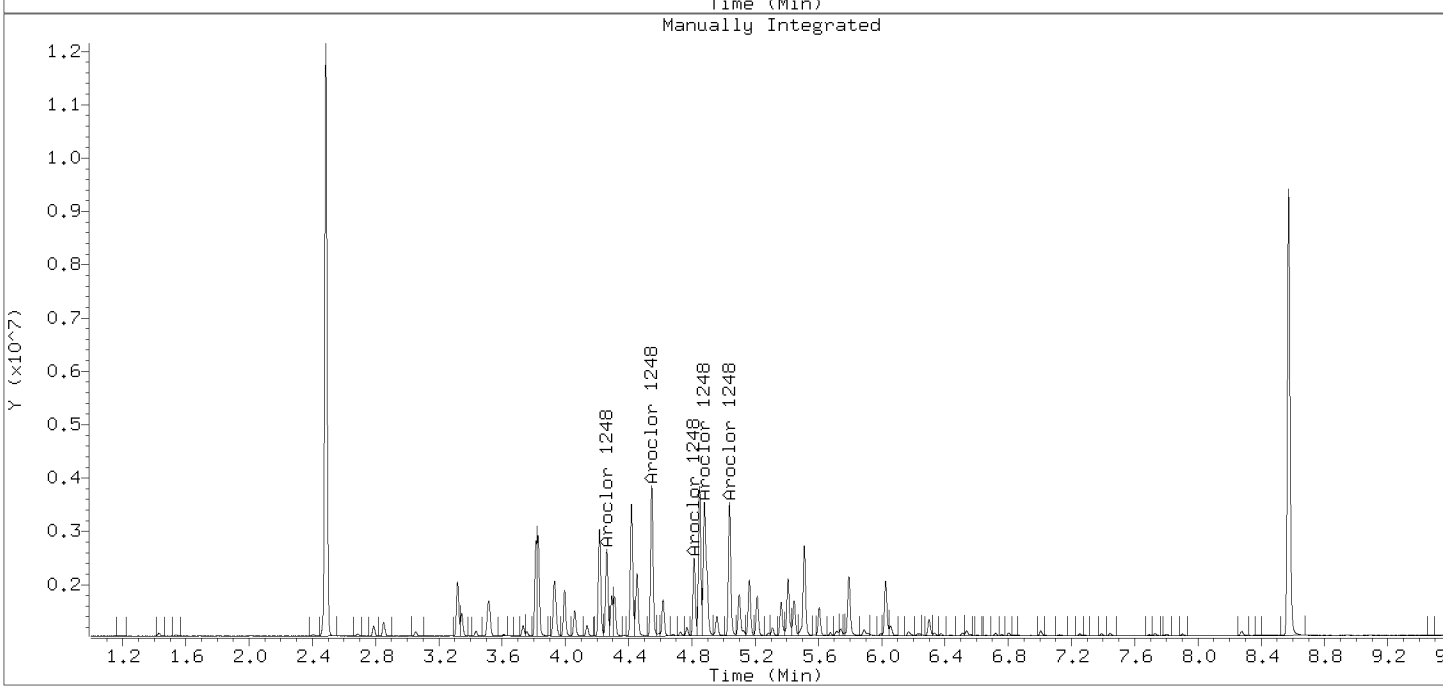
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618040.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 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
1.184	15397	13334	0.866	0.01		
1.430	101369	87214	0.860	0.10		
1.537	43989	34591	0.786	0.04		
2.406	47903	33430	0.698	0.05		
2.485	17721229	17125552	0.966	19.37		
2.688	56165	47205	0.840	0.05		
2.788	288750	277495	0.961	0.30		
2.851	348759	325290	0.933	0.37		
3.054	123922	115841	0.935	0.13		
3.273	9293	8724	0.939	0.00		
3.318	1341983	1263092	0.941	1.43		
3.344	567538	536022	0.944	0.60		
3.434	126309	115528	0.915	0.13		
3.516	1155877	827361	0.716	1.23		
3.611	47908	47362	0.989	0.05		
3.647	10831	12550	1.159	0.01		
3.696	12947	14220	1.098	0.01		
3.732	246189	245791	0.998	0.26		
3.758	102423	103998	1.015	0.10		
3.814	1931729	2268598	1.174	2.06		
3.826	2479017	2389735	0.964	2.64		
3.931	1695811	1294913	0.764	1.80		
3.995	1133597	1088944	0.961	1.20		
4.059	642924	621662	0.967	0.68		
4.136	260443	245788	0.944	0.27		
4.216	2732694	2586455	0.946	2.91		
4.261	2183583	2056861	0.942	2.32	6 Aroclor 1248	BA
4.293	940491	949013	1.009	1.00		
4.310	984371	940127	0.955	1.05		
4.373	17082	14222	0.833	0.01		
4.418	3371096	3162549	0.938	3.59		
4.453	1703074	1454953	0.854	1.81		
4.546	3891543	3587538	0.922	4.15	6 Aroclor 1248	BA
4.591	55507	60505	1.090	0.05		
4.618	922889	867798	0.940	0.98		
4.679	46691	38089	0.816	0.04		
4.728	116729	92875	0.796	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	206094	200087	0.971	0.21	
4.814	1927122	1857150	0.964	2.05	6 Aroclor 1248
4.849	3694572	3560273	0.964	3.94	
4.880	4748871	3261898	0.687	5.06	6 Aroclor 1248
4.958	573809	487686	0.850	0.61	
5.038	3440920	3224544	0.937	3.67	6 Aroclor 1248
5.099	1231738	975474	0.792	1.31	
5.163	1442598	1311329	0.909	1.53	
5.213	1046539	961794	0.919	1.11	
5.285	77016	69190	0.898	0.08	
5.309	226198	194152	0.858	0.24	
5.364	920750	826849	0.898	0.98	
5.407	1532611	1323050	0.863	1.63	
5.446	983454	847993	0.862	1.04	
5.511	2532627	2102151	0.830	2.70	
5.605	736667	659983	0.896	0.78	
5.676	82056	71573	0.872	0.08	
5.717	150366	114784	0.763	0.16	
5.741	184149	167330	0.909	0.19	
5.762	57712	71463	1.238	0.06	
5.793	1735942	1359776	0.783	1.85	
5.890	231734	149127	0.644	0.24	
5.994	49770	49696	0.999	0.05	
6.025	1490983	1293880	0.868	1.59	
6.056	314721	242832	0.772	0.33	
6.169	146062	104225	0.714	0.15	
6.227	101525	50840	0.501	0.10	
6.299	449260	381467	0.849	0.47	
6.335	84948	72590	0.855	0.09	
6.375	71691	55450	0.773	0.07	
6.435	33526	20718	0.618	0.03	
6.510	77044	72111	0.936	0.08	
6.537	172087	123276	0.716	0.18	
6.609	25723	18897	0.735	0.02	
6.660	18434	15697	0.852	0.01	
6.721	70509	61602	0.874	0.07	
6.760	38763	32658	0.843	0.04	
6.802	83703	70972	0.848	0.08	
6.842	38188	23754	0.622	0.04	
6.914	13236	11502	0.869	0.01	
6.943	16695	13481	0.807	0.01	
7.006	152792	119576	0.783	0.16	
7.122	35477	27446	0.774	0.03	
7.252	56007	44086	0.787	0.05	
7.388	61340	50925	0.830	0.06	
7.446	59037	54928	0.930	0.06	
7.692	28579	27869	0.975	0.03	
7.730	76894	62730	0.816	0.08	
7.802	60957	40295	0.661	0.06	
7.901	57972	43159	0.744	0.06	
8.276	150141	122351	0.815	0.16	
8.379	21548	15836	0.735	0.02	
8.573	14394097	12289354	0.854	15.35	
8.946	18562	11531	0.621	0.01	
9.086	15319	13297	0.868	0.01	
9.963	9351	8698	0.930	0.00	
	93736539	84400610		100.000	

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 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			
4.261	4.261	0.000	2183582	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3891542	1.00000	0.94	0.00- 20.00	178.22	BA
4.813	4.812	0.001	1927121	1.00000	0.95	0.00- 20.00	88.26	BA
4.879	4.879	0.000	4748871	1.00000	0.94	0.00- 20.00	217.48	BA
5.037	5.038	-0.001	3440920	1.00000	0.96	0.00- 20.00	157.58	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\40GCSJ.i\030618.b\030618042.D

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

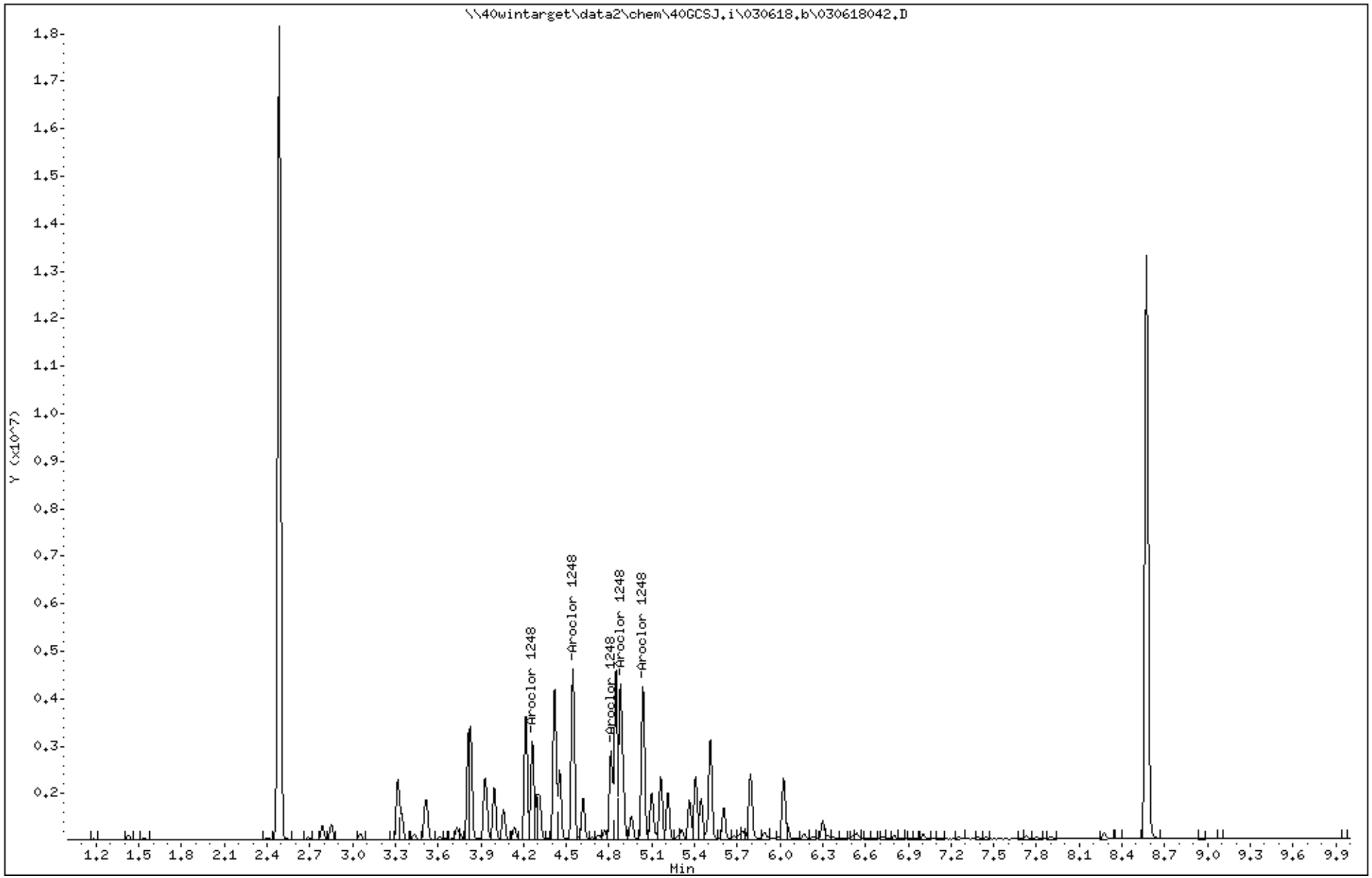
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

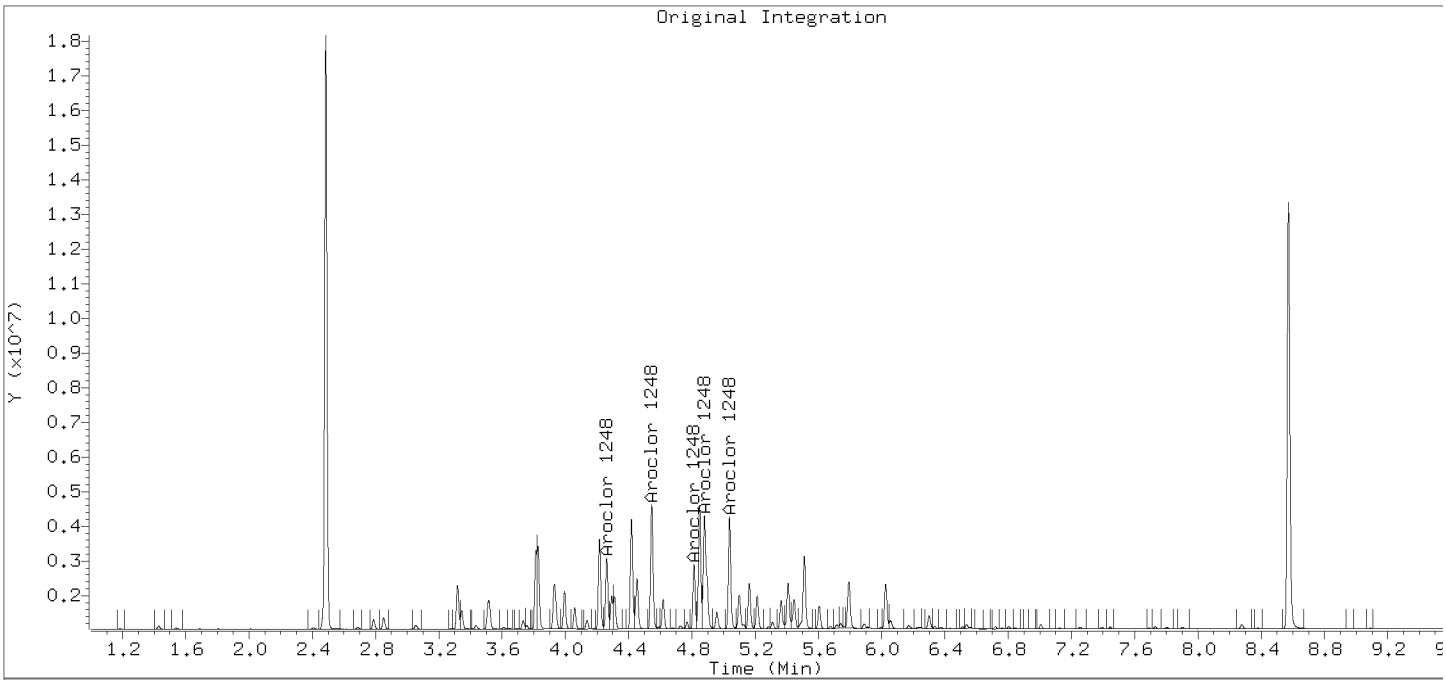
Operator: BLM

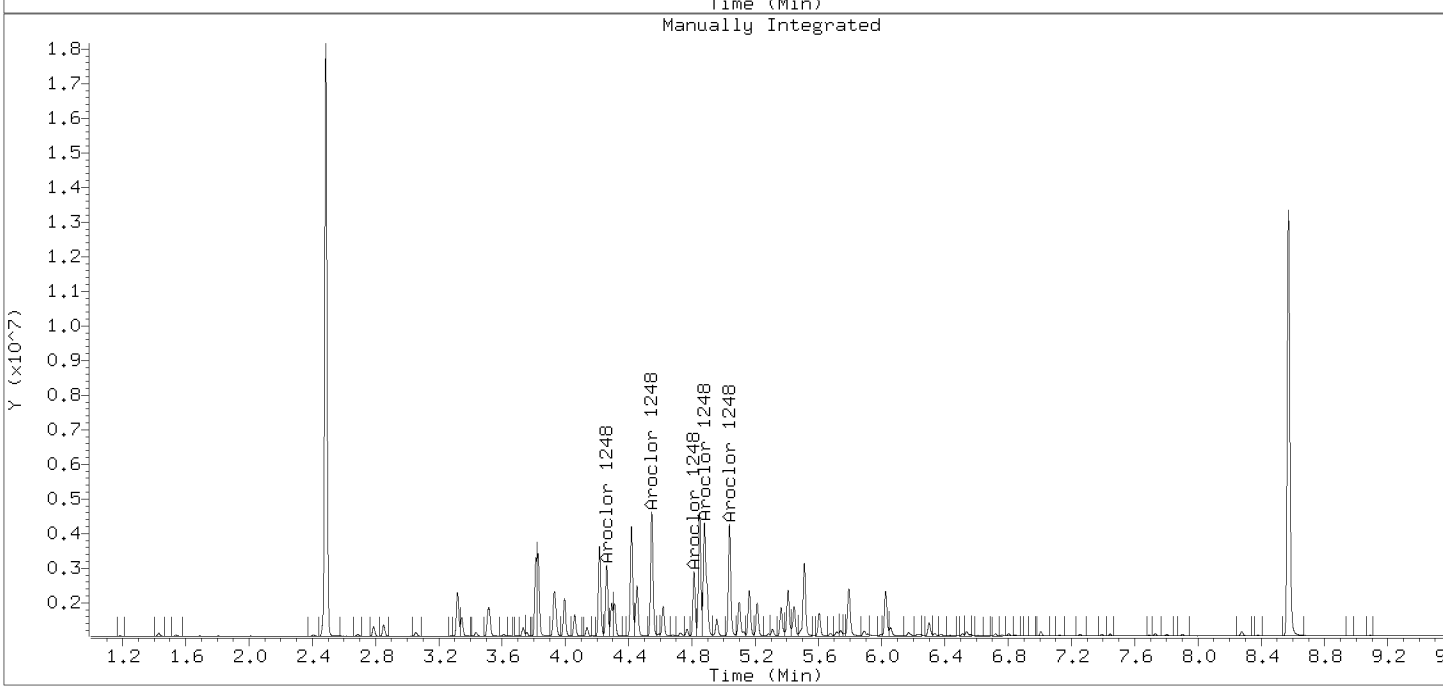
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618042.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL5D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 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
1.183	48987	40093	0.818	0.41		
1.426	12583	10350	0.823	0.10		
1.686	14588	13145	0.901	0.12		
2.011	39185	27090	0.691	0.33		
2.484	1264026	1229666	0.973	11.03		
2.787	25737	23306	0.906	0.21		
3.028	26930	17363	0.645	0.22		
3.814	29490	14918	0.506	0.25		
4.000	27012	19985	0.740	0.22		
4.046	9554	8540	0.894	0.08		
4.215	267608	259554	0.970	2.27		
4.260	70496	69050	0.979	0.59		
4.293	14185	11720	0.826	0.12		
4.418	167997	155970	0.928	1.42		
4.452	20339	17534	0.862	0.17		
4.547	73516	70272	0.956	0.62		
4.615	15012	14316	0.954	0.12		
4.813	63092	62377	0.989	0.53		
4.848	232331	222423	0.957	1.97		
4.895	547413	435444	0.795	4.64		
4.958	89049	77209	0.867	0.75		
5.038	53508	47334	0.885	0.45		
5.101	310238	269708	0.869	2.63		
5.163	578338	533266	0.922	4.91	7 Aroclor 1254	BA
5.213	259231	232363	0.896	2.20		
5.286	13290	15715	1.182	0.11		
5.310	48017	42464	0.884	0.40		
5.363	222324	207379	0.933	1.88		
5.408	461676	411346	0.891	3.91	7 Aroclor 1254	BA
5.446	153810	143804	0.935	1.30		
5.478	60811	58639	0.964	0.51		
5.511	843524	762911	0.904	7.16	7 Aroclor 1254	BA
5.605	121504	105369	0.867	1.03		
5.676	76082	73395	0.965	0.64		
5.712	129494	82303	0.636	1.09		
5.740	72702	60950	0.838	0.61		
5.791	864719	646413	0.748	7.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.885	76602	58309	0.761	0.65	
5.925	46537	28076	0.603	0.39	
5.994	69953	65994	0.943	0.59	
6.027	514088	428155	0.833	4.36	7 Aroclor 1254
6.056	378012	325072	0.860	3.20	
6.169	154351	125775	0.815	1.31	
6.228	120109	63109	0.525	1.01	
6.300	701502	599827	0.855	5.95	7 Aroclor 1254
6.335	126230	111073	0.880	1.07	
6.375	74344	60647	0.816	0.63	
6.443	34233	19876	0.581	0.29	
6.512	29729	27649	0.930	0.25	
6.536	235571	178655	0.758	2.00	
6.607	36815	29017	0.788	0.31	
6.719	47979	41305	0.861	0.40	
6.759	31561	26431	0.837	0.26	
6.803	129897	110305	0.849	1.10	
6.844	33654	23973	0.712	0.28	
6.948	16896	13072	0.774	0.14	
7.005	90785	79102	0.871	0.77	
7.138	27852	16095	0.578	0.23	
7.253	92553	68397	0.739	0.78	
7.776	24601	16237	0.660	0.20	
7.900	9733	7403	0.761	0.08	
8.278	11455	11514	1.005	0.09	
8.380	27407	19837	0.724	0.23	
8.573	1220451	1043440	0.855	10.36	
8.945	34590	22887	0.662	0.29	
9.468	24800	20749	0.837	0.21	
9.962	27633	19326	0.699	0.23	
	11778321	10154991		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 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			
5.163	5.162	0.001	578337	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.408	5.408	0.000	461675	0.10000	0.11	0.00- 20.00	79.83	BA
5.510	5.510	0.000	843524	0.10000	0.11	0.00- 20.00	145.85	BA
6.026	6.027	-0.001	514088	0.10000	0.10	0.00- 20.00	88.89	BA
6.299	6.299	0.000	701502	0.10000	0.11	0.00- 20.00	121.30	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

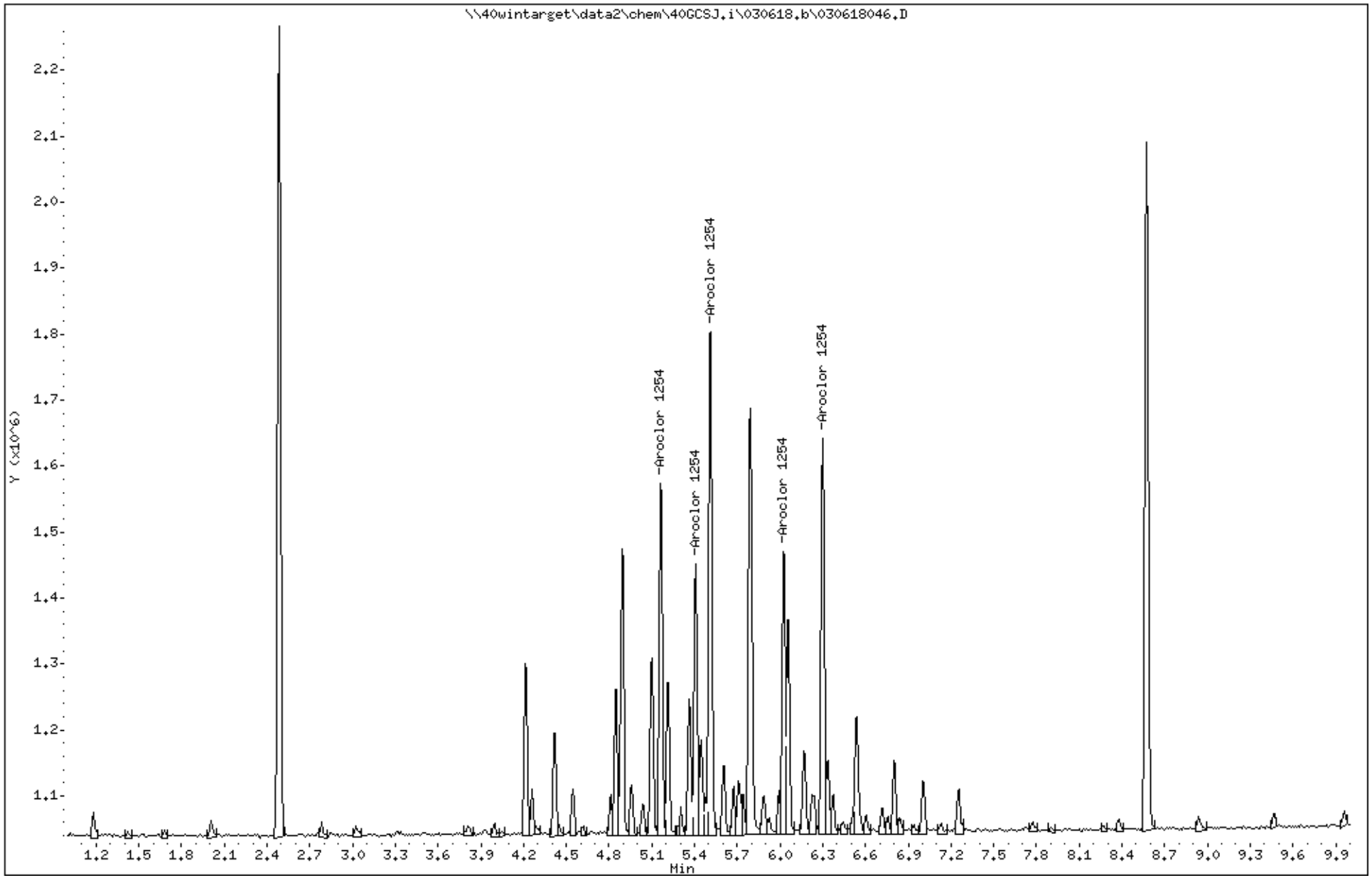
M - Compound response manually integrated.

Review Codes Legend

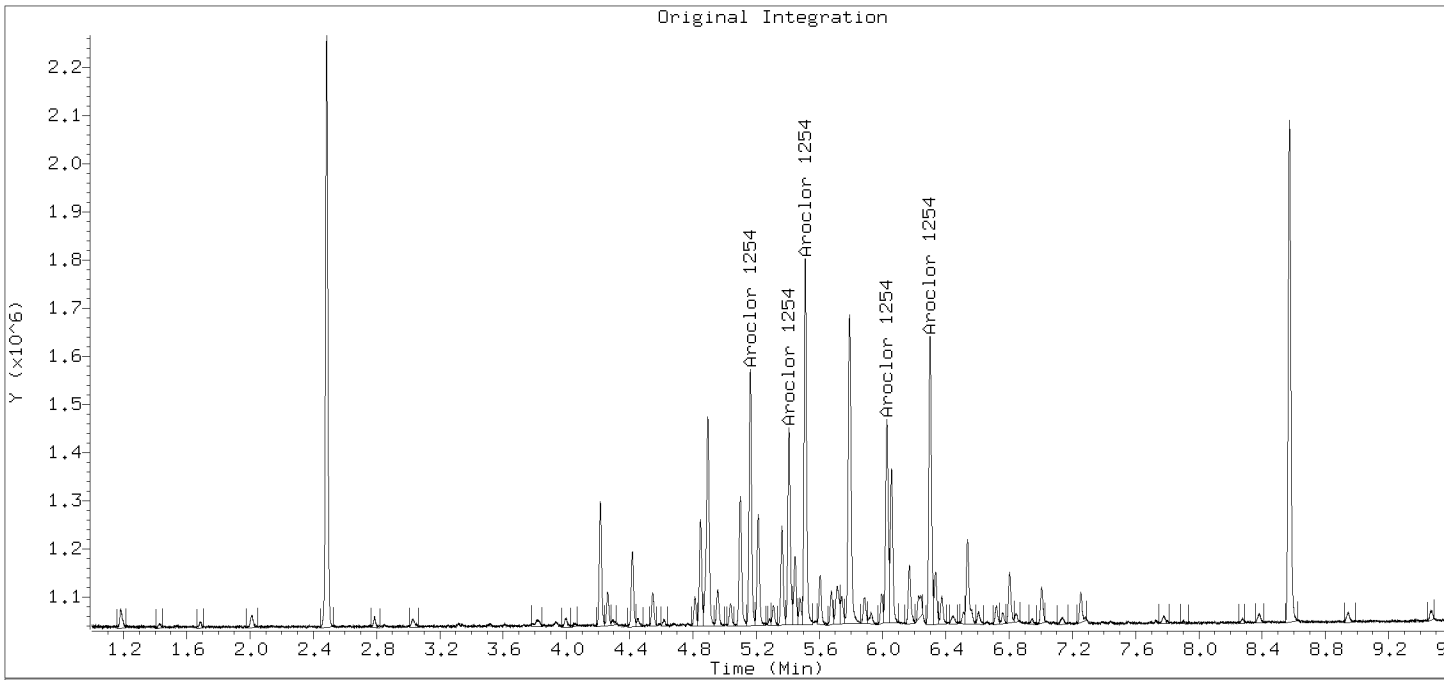
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

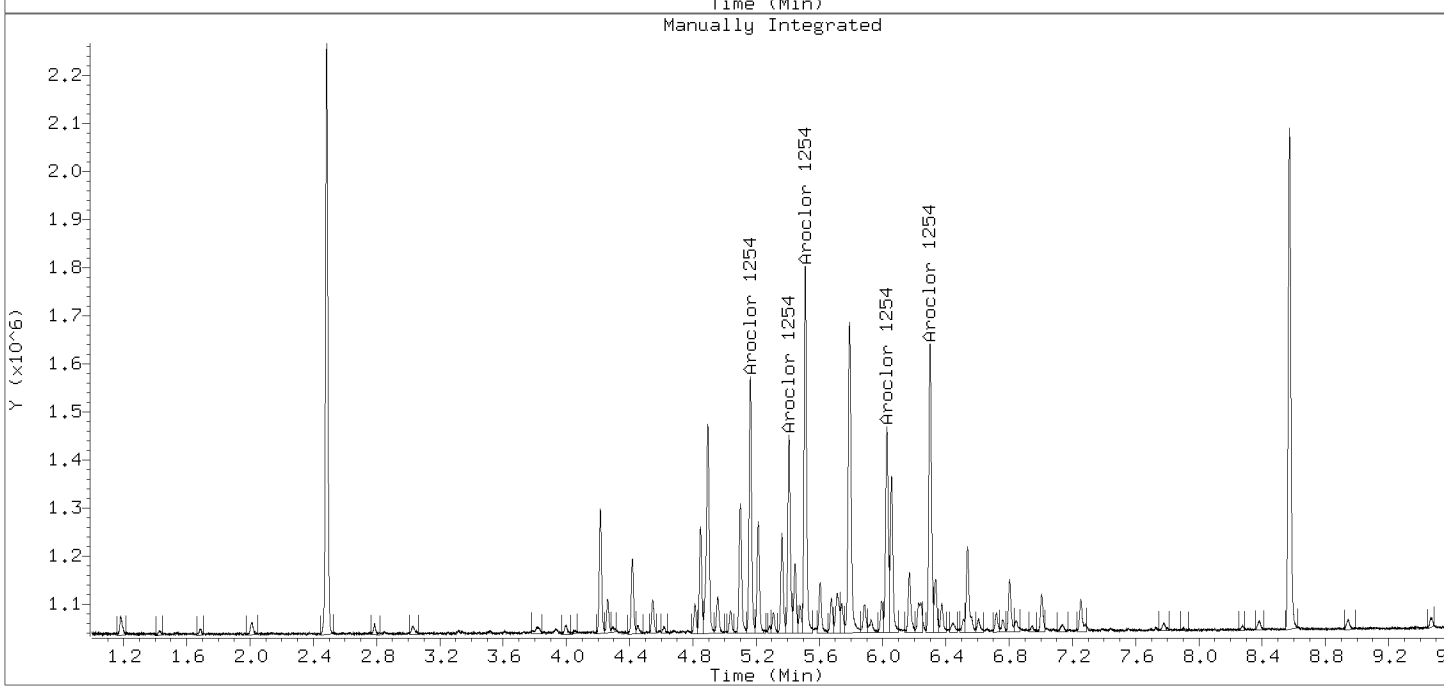
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618046.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 16:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL1C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA

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Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 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
1.180	14785	11446	0.774	0.06		
1.428	22932	16453	0.717	0.10		
2.008	13252	7547	0.570	0.05		
2.484	2443152	2335532	0.956	11.18		
2.785	38923	36879	0.947	0.17		
3.317	15688	15090	0.962	0.06		
3.816	33314	23152	0.695	0.14		
3.936	25391	18861	0.743	0.11		
3.991	19776	14851	0.751	0.08		
4.057	14294	10125	0.708	0.06		
4.215	518990	504810	0.973	2.30		
4.262	130759	134614	1.029	0.57		
4.417	318089	306882	0.965	1.40		
4.453	36792	31401	0.853	0.16		
4.546	146634	140842	0.961	0.64		
4.594	9667	9066	0.938	0.04		
4.619	30811	24715	0.802	0.13		
4.679	14300	9754	0.682	0.06		
4.812	124031	118773	0.958	0.54		
4.848	455414	441589	0.970	2.01		
4.894	1053205	858019	0.815	4.66		
4.957	173883	154163	0.887	0.77		
5.038	101462	94180	0.928	0.44		
5.100	607083	520373	0.857	2.69		
5.163	1130516	1047365	0.926	5.01	7 Aroclor 1254	BA
5.213	500908	455276	0.909	2.22		
5.257	17625	16702	0.948	0.07		
5.285	29337	27985	0.954	0.13		
5.309	96003	86176	0.898	0.42		
5.363	431219	406625	0.943	1.91		
5.407	916372	831698	0.908	4.06	7 Aroclor 1254	BA
5.447	306543	274508	0.895	1.35		
5.478	113703	114036	1.003	0.50		
5.510	1657392	1480187	0.893	7.34	7 Aroclor 1254	BA
5.579	19853	16482	0.830	0.08		
5.605	231410	203474	0.879	1.02		
5.675	151855	139702	0.920	0.67		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.713	234337	153331	0.654	1.03	
5.740	130944	119042	0.909	0.58	
5.790	1692901	1288520	0.761	7.50	
5.884	152797	115170	0.754	0.67	
5.927	77749	50774	0.653	0.34	
5.994	139616	133887	0.959	0.61	
6.026	1030270	853221	0.828	4.56	7 Aroclor 1254
6.056	727544	649744	0.893	3.22	
6.086	209395	142010	0.678	0.92	
6.169	306146	246695	0.806	1.35	
6.228	123149	122142	0.992	0.54	
6.241	143819	124934	0.869	0.63	
6.299	1396395	1154592	0.827	6.18	7 Aroclor 1254
6.334	246981	213346	0.864	1.09	
6.375	147488	117497	0.797	0.65	
6.438	46079	24168	0.524	0.20	
6.512	58184	55972	0.962	0.25	
6.537	454237	352793	0.777	2.01	
6.605	73055	56160	0.769	0.32	
6.660	18073	13693	0.758	0.08	
6.720	93177	76403	0.820	0.41	
6.760	56477	50956	0.902	0.25	
6.802	250222	217408	0.869	1.10	
6.845	76101	47284	0.621	0.33	
6.945	29987	22146	0.739	0.13	
7.005	187120	153304	0.819	0.82	
7.252	146914	128748	0.876	0.65	
7.283	43303	26667	0.616	0.19	
7.557	16777	10505	0.626	0.07	
7.903	15055	9793	0.650	0.06	
8.278	21586	17365	0.804	0.09	
8.572	2251771	1853841	0.823	9.97	
	22563007	19541444		100.000	

Total unknown % area = 73

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Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 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			
5.162	5.162	0.000	1130515	0.20000	0.22	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	916371	0.20000	0.21	0.00- 20.00	81.06	BA
5.510	5.510	0.000	1657392	0.20000	0.21	0.00- 20.00	146.61	BA
6.026	6.027	-0.001	1030270	0.20000	0.21	0.00- 20.00	91.13	BA
6.299	6.299	0.000	1396394	0.20000	0.21	0.00- 20.00	123.52	BA
Average of Peak Amounts =					0.21200			

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\40GCSJ.i\030618.b\030618048.D

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

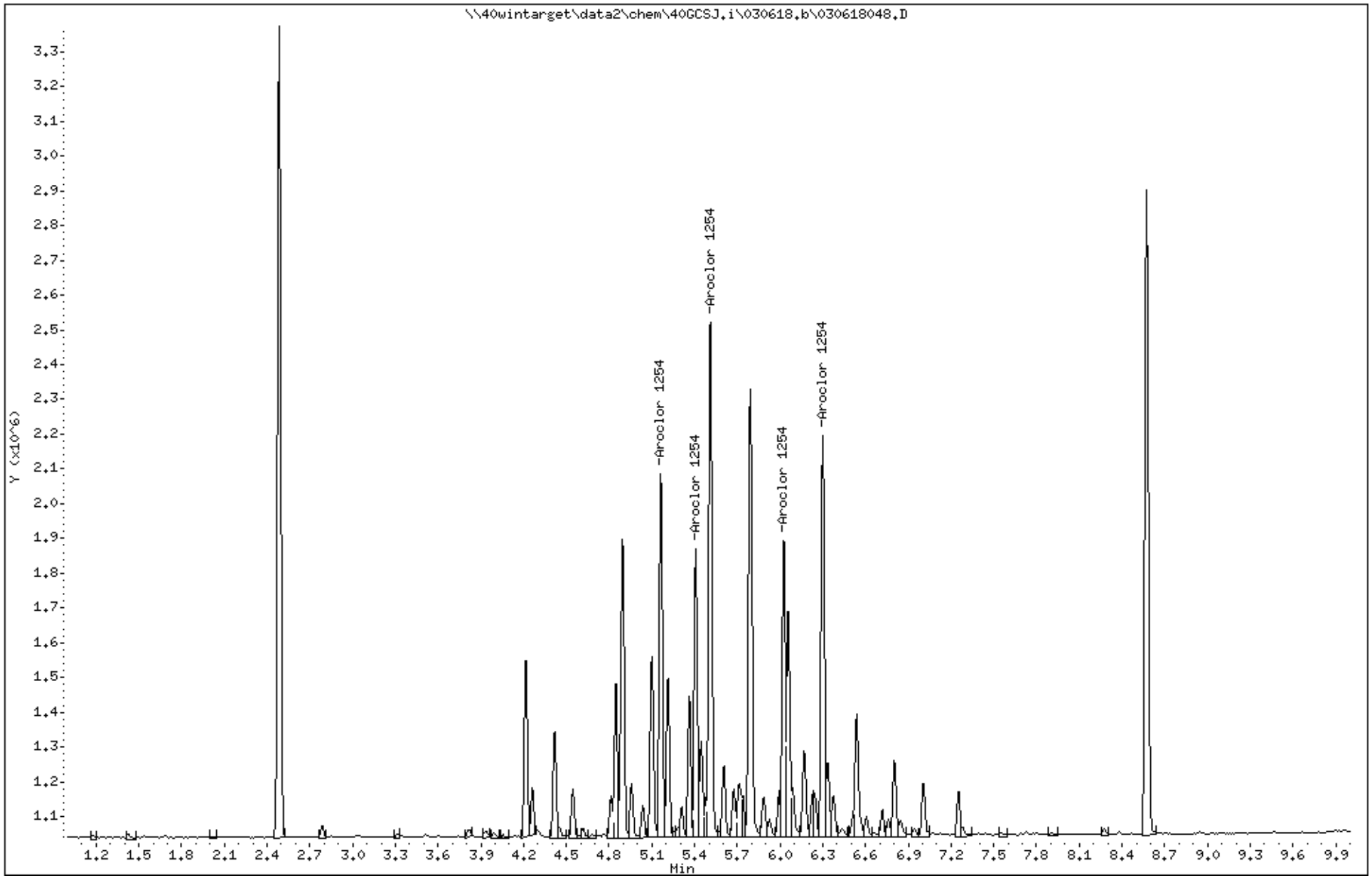
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

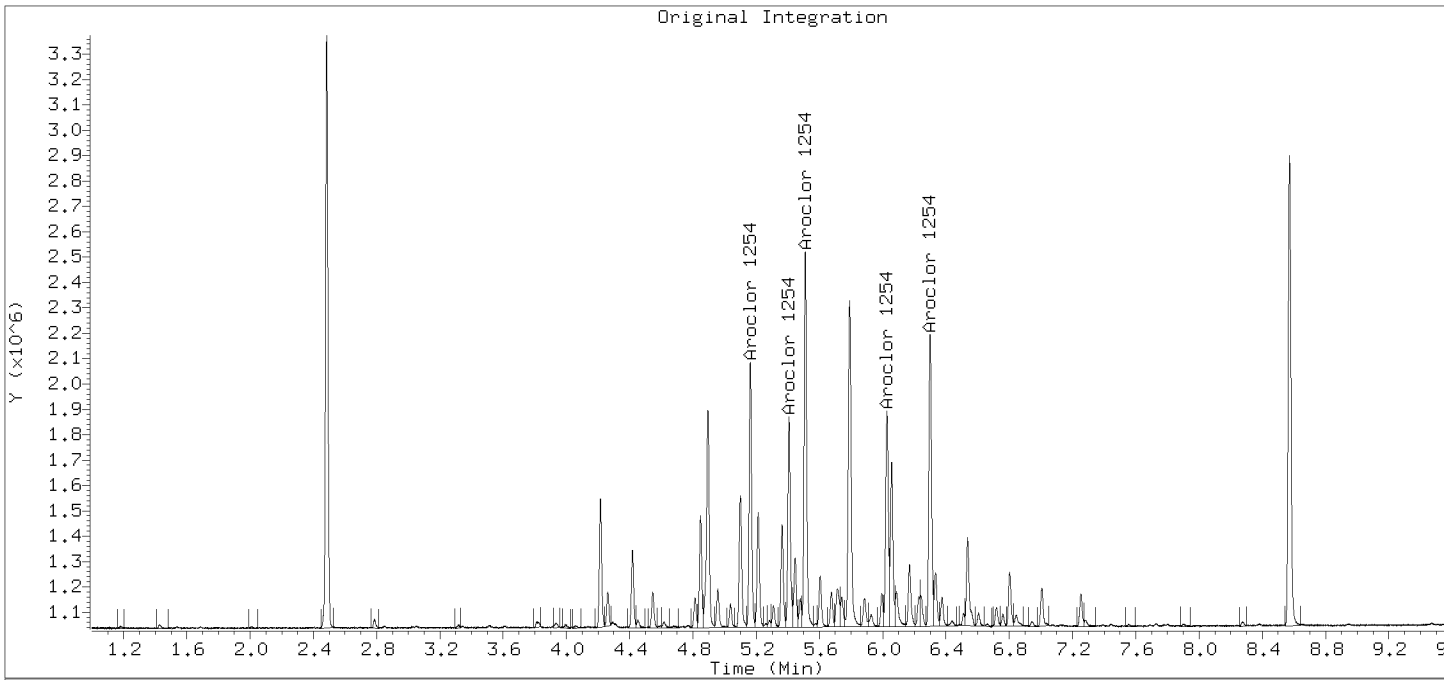
Operator: BLM

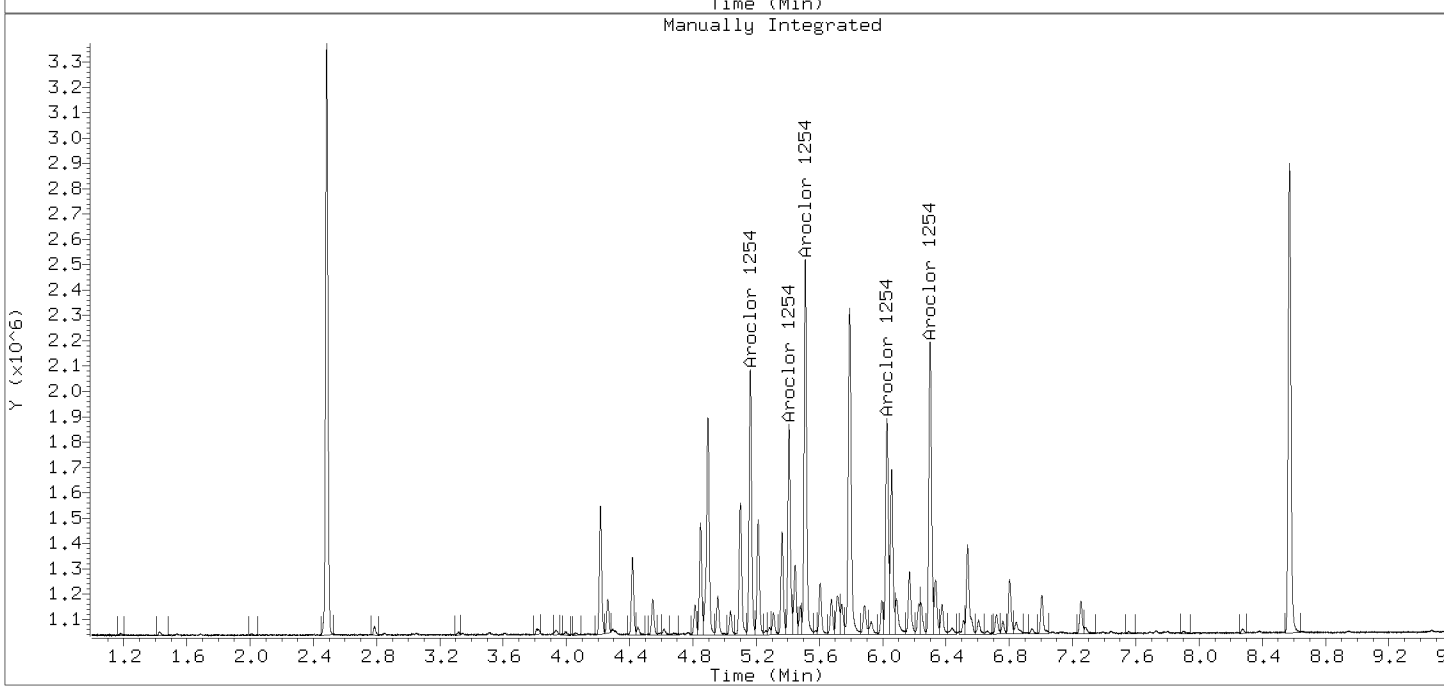
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618048.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL2C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 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
1.182	51337	40044	0.780	0.09		
1.429	39957	34317	0.859	0.07		
1.537	17914	13995	0.781	0.03		
1.685	15629	15398	0.985	0.02		
2.011	29599	20853	0.705	0.05		
2.485	6057898	5851038	0.966	12.02		
2.686	9516	7676	0.807	0.01		
2.787	95008	87358	0.919	0.18		
2.851	23819	20877	0.877	0.04		
3.052	13713	14987	1.093	0.02		
3.316	31189	30919	0.991	0.05		
3.344	21096	17017	0.807	0.04		
3.515	29295	21880	0.747	0.05		
3.610	20788	17635	0.848	0.03		
3.728	13013	9960	0.765	0.02		
3.815	75390	52210	0.693	0.14		
3.933	62381	42408	0.680	0.11		
3.996	40445	30149	0.745	0.07		
4.057	24255	18114	0.747	0.04		
4.215	1217908	1150954	0.945	2.32		
4.262	330320	319433	0.967	0.63		
4.292	64830	48630	0.750	0.12		
4.418	748177	726093	0.970	1.42		
4.452	73920	66424	0.899	0.14		
4.545	335088	319422	0.953	0.63		
4.592	16526	15457	0.935	0.03		
4.619	59193	52479	0.887	0.11		
4.685	17734	16983	0.958	0.03		
4.770	20117	19880	0.988	0.03		
4.813	284745	275889	0.969	0.54		
4.849	1084246	1045959	0.965	2.06		
4.895	2405586	1902763	0.791	4.58		
4.957	390371	342893	0.878	0.74		
5.037	238296	218476	0.917	0.45		
5.100	1405616	1219340	0.867	2.68		
5.164	2560293	2304428	0.900	4.88	7 Aroclor 1254	BA
5.213	1173729	1059080	0.902	2.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.285	60363	60152	0.996	0.11	
5.309	214942	193512	0.900	0.41	
5.364	1020588	935288	0.916	1.94	
5.407	2112521	1886528	0.893	4.03	7 Aroclor 1254
5.447	733518	649777	0.886	1.39	
5.479	265192	257135	0.970	0.50	
5.511	3811784	3385999	0.888	7.27	7 Aroclor 1254
5.579	32531	33382	1.026	0.06	
5.605	530818	484241	0.912	1.01	
5.676	348702	323329	0.927	0.66	
5.714	533476	346229	0.649	1.01	
5.742	324759	270812	0.834	0.61	
5.791	3843360	2976827	0.775	7.33	
5.886	336244	269243	0.801	0.64	
5.927	179445	112871	0.629	0.34	
5.994	317667	298687	0.940	0.60	
6.026	2413214	1944030	0.806	4.60	7 Aroclor 1254
6.056	1748224	1477442	0.845	3.33	
6.170	686623	578812	0.843	1.31	
6.229	279467	280903	1.005	0.53	
6.242	317134	279276	0.881	0.60	
6.300	3184410	2766550	0.869	6.07	7 Aroclor 1254
6.334	582664	515473	0.885	1.11	
6.374	330007	275263	0.834	0.62	
6.438	89310	51831	0.580	0.17	
6.487	18679	18109	0.970	0.03	
6.511	122714	122347	0.997	0.23	
6.537	1081766	870038	0.804	2.06	
6.607	157551	128075	0.813	0.30	
6.662	30905	25338	0.820	0.05	
6.718	210754	178569	0.847	0.40	
6.761	129400	110612	0.855	0.24	
6.802	599534	539615	0.900	1.14	
6.844	171759	108076	0.629	0.32	
6.945	57172	47423	0.829	0.10	
7.006	434841	362564	0.834	0.82	
7.077	18727	15733	0.840	0.03	
7.130	24196	17055	0.705	0.04	
7.252	342578	310115	0.905	0.65	
7.282	72487	60104	0.829	0.13	
7.390	19578	16122	0.823	0.03	
7.445	35210	22193	0.630	0.06	
7.553	26390	18609	0.705	0.05	
7.694	16316	14388	0.882	0.03	
7.729	31518	23387	0.742	0.06	
7.778	19445	16730	0.860	0.03	
7.798	20263	16018	0.790	0.03	
7.904	22590	18864	0.835	0.04	
8.276	52953	39504	0.746	0.10	
8.382	28017	19746	0.705	0.05	
8.572	5213644	4428280	0.849	9.94	
8.943	21557	16555	0.768	0.04	
9.466	15645	11531	0.737	0.02	
9.966	18425	14389	0.781	0.03	
	52410519	45695099		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 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			
5.163	5.162	0.001	2560292	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	2112521	0.50000	0.49	0.00- 20.00	82.51	BA
5.510	5.510	0.000	3811784	0.50000	0.49	0.00- 20.00	148.88	BA
6.026	6.027	-0.001	2413214	0.50000	0.50	0.00- 20.00	94.26	BA
6.299	6.299	0.000	3184409	0.50000	0.49	0.00- 20.00	124.38	BA
Average of Peak Amounts =					0.49200			

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\40GCSJ.i\030618.b\030618050.D

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

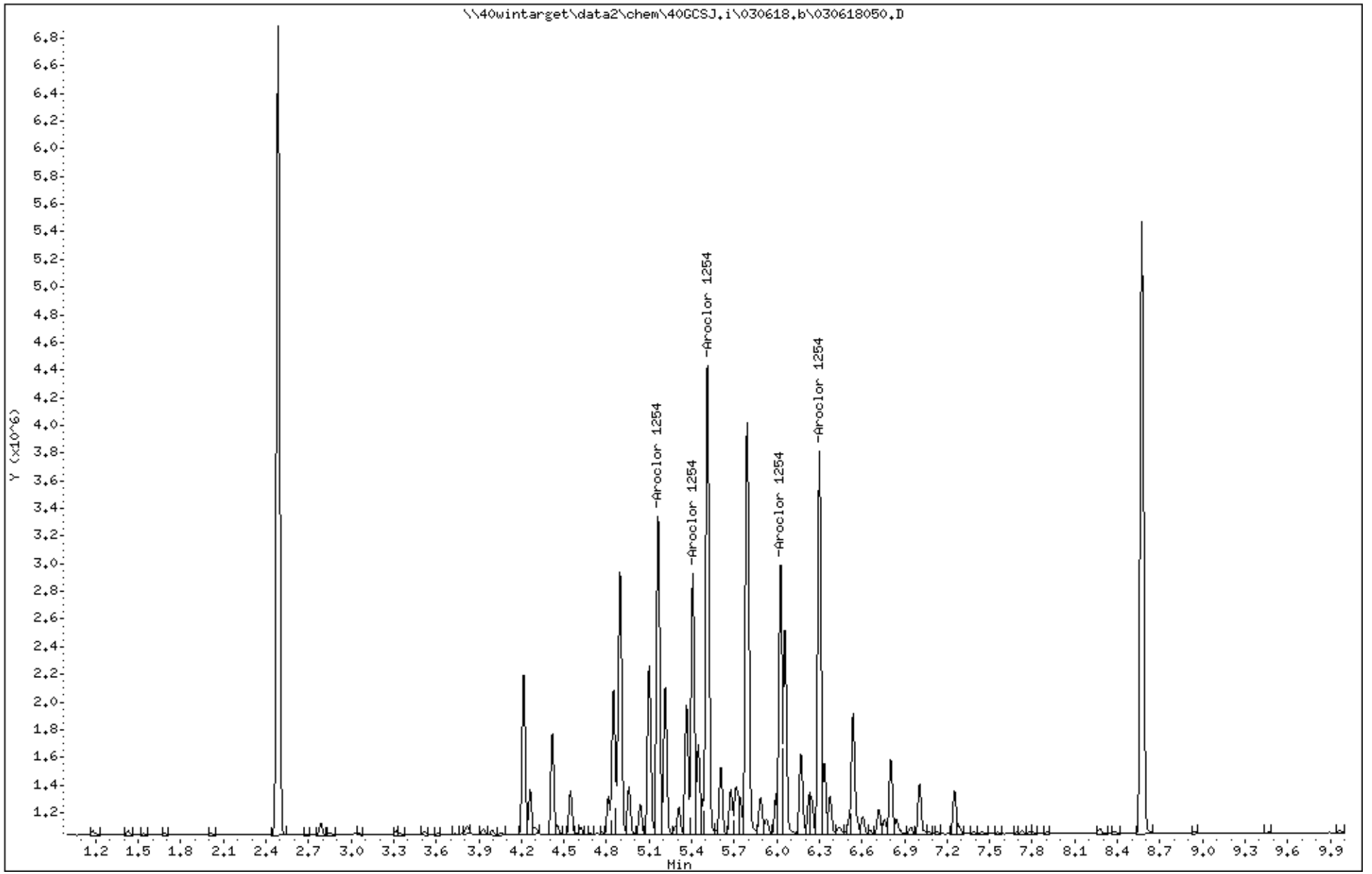
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

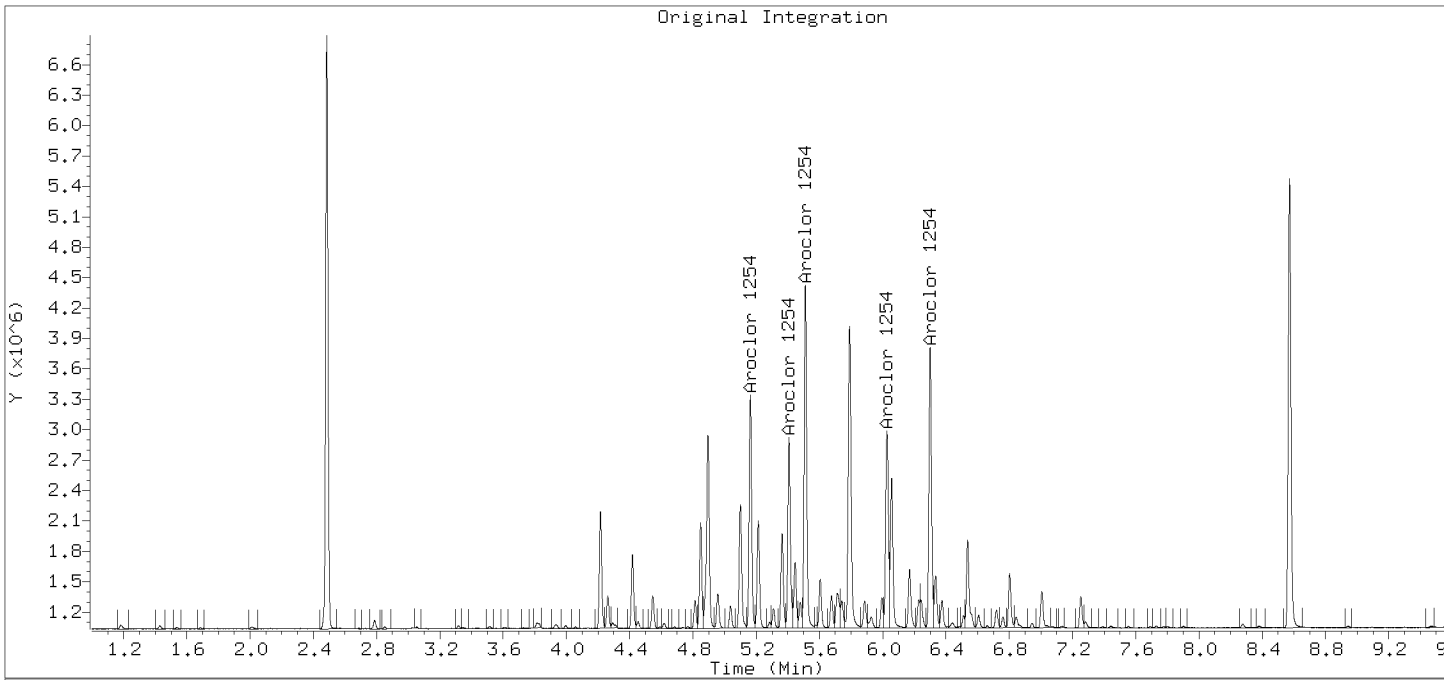
Operator: BLM

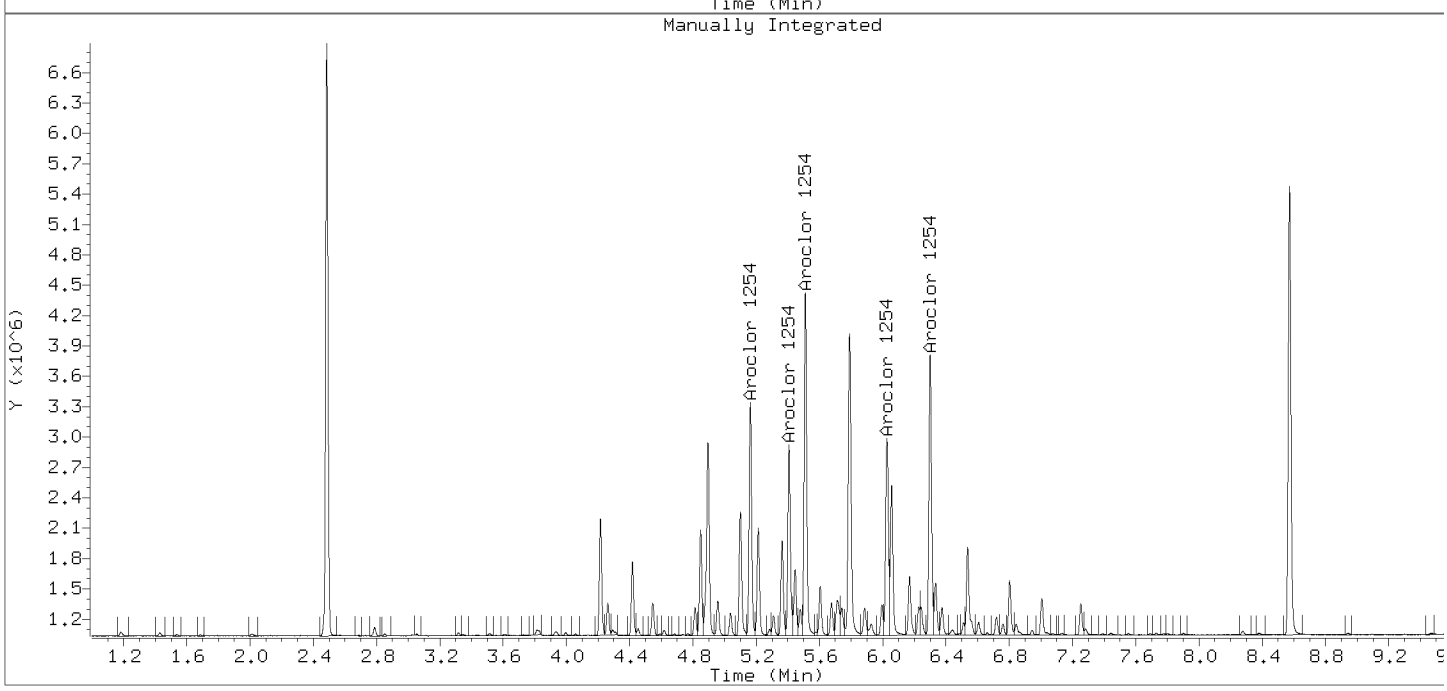
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618050.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL3C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 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
1.181	20338	17643	0.867	0.02		
1.428	65922	60336	0.915	0.07		
1.538	31776	24460	0.770	0.03		
2.485	11777090	11571932	0.983	14.42		
2.787	164077	161759	0.986	0.19		
2.852	35610	28522	0.801	0.04		
3.052	34848	31099	0.892	0.04		
3.318	49721	48315	0.972	0.05		
3.345	27672	27798	1.005	0.03		
3.434	12631	8647	0.685	0.01		
3.512	47159	33510	0.711	0.05		
3.609	31888	32717	1.026	0.03		
3.732	12093	11883	0.983	0.01		
3.757	10828	11345	1.048	0.01		
3.814	107287	73196	0.682	0.12		
3.934	94015	65238	0.694	0.11		
3.996	37751	35743	0.947	0.04		
4.059	25966	21513	0.829	0.03		
4.136	10670	12088	1.133	0.01		
4.215	1826293	1728963	0.947	2.16		
4.262	495863	484615	0.977	0.58		
4.293	82438	62200	0.755	0.09		
4.418	1148007	1108250	0.965	1.35		
4.454	124829	105675	0.847	0.14		
4.545	520797	506348	0.972	0.61		
4.592	22494	21617	0.961	0.02		
4.617	91512	86993	0.951	0.10		
4.682	29611	23905	0.807	0.03		
4.738	13639	11326	0.830	0.01		
4.768	31653	29681	0.938	0.03		
4.813	436264	431646	0.989	0.51		
4.848	1661944	1593892	0.959	1.96		
4.895	3639982	2884202	0.792	4.30		
4.958	608805	546410	0.898	0.72		
5.038	362095	340028	0.939	0.42		
5.100	2123049	1825949	0.860	2.51		
5.163	3886482	3507162	0.902	4.59	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	1776836	1628217	0.916	2.10	
5.284	96560	90819	0.941	0.11	
5.309	325641	297506	0.914	0.38	
5.364	1556302	1425397	0.916	1.84	
5.407	3251705	3006981	0.925	3.84	7 Aroclor 1254
5.446	1124584	1040705	0.925	1.33	
5.479	401904	378797	0.943	0.47	
5.510	5821617	5399486	0.927	6.88	7 Aroclor 1254
5.575	58238	53397	0.917	0.06	
5.604	831473	749483	0.901	0.98	
5.676	530127	502418	0.948	0.62	
5.713	822568	545715	0.663	0.97	
5.742	512983	417833	0.815	0.60	
5.791	5870686	4701193	0.801	6.94	
5.885	522465	412152	0.789	0.61	
5.927	275865	173515	0.629	0.32	
5.994	487921	462752	0.948	0.57	
6.027	3710616	3100778	0.836	4.38	7 Aroclor 1254
6.057	2650507	2221374	0.838	3.13	
6.169	1066850	928060	0.870	1.26	
6.228	444612	436676	0.982	0.52	
6.243	480121	416542	0.868	0.56	
6.300	4897868	4117516	0.841	5.79	7 Aroclor 1254
6.334	897566	789045	0.879	1.06	
6.374	507098	430542	0.849	0.59	
6.441	124903	73312	0.587	0.14	
6.487	27937	25771	0.922	0.03	
6.510	183907	185808	1.010	0.21	
6.536	1677948	1278798	0.762	1.98	
6.605	242982	201019	0.827	0.28	
6.661	41322	38186	0.924	0.04	
6.719	331298	275607	0.832	0.39	
6.758	194741	175185	0.900	0.23	
6.802	936736	798625	0.853	1.10	
6.844	260030	171830	0.661	0.30	
6.907	13593	12018	0.884	0.01	
6.942	85729	72281	0.843	0.10	
7.006	675731	578164	0.856	0.79	
7.077	32184	26109	0.811	0.03	
7.122	28643	17643	0.616	0.03	
7.253	534471	485017	0.907	0.63	
7.282	121561	99258	0.817	0.14	
7.331	10539	7109	0.675	0.01	
7.390	27785	21939	0.790	0.03	
7.442	42859	32217	0.752	0.05	
7.555	39938	25488	0.638	0.04	
7.691	21961	21683	0.987	0.02	
7.727	55370	42642	0.770	0.06	
7.799	40475	27058	0.669	0.04	
7.900	38857	28824	0.742	0.04	
8.033	10655	8635	0.810	0.01	
8.277	84696	72245	0.853	0.10	
8.379	22615	16331	0.722	0.02	
8.571	9861374	8409353	0.853	11.66	
8.942	30130	19515	0.648	0.03	
9.085	14868	10676	0.718	0.01	
9.470	49128	26719	0.544	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.961	49432	33887	0.686	0.05	
	84540213	74622457		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 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			
5.162	5.162	0.000	3886481	0.80000	0.74	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	3251705	0.80000	0.76	0.00- 20.00	83.67	BA
5.509	5.510	-0.001	5821617	0.80000	0.75	0.00- 20.00	149.79	BA
6.027	6.027	0.000	3710615	0.80000	0.76	0.00- 20.00	95.47	BA
6.299	6.299	0.000	4897867	0.80000	0.75	0.00- 20.00	126.02	BA
Average of Peak Amounts =					0.75200			

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\40GCSJ.i\030618.b\030618052.D

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

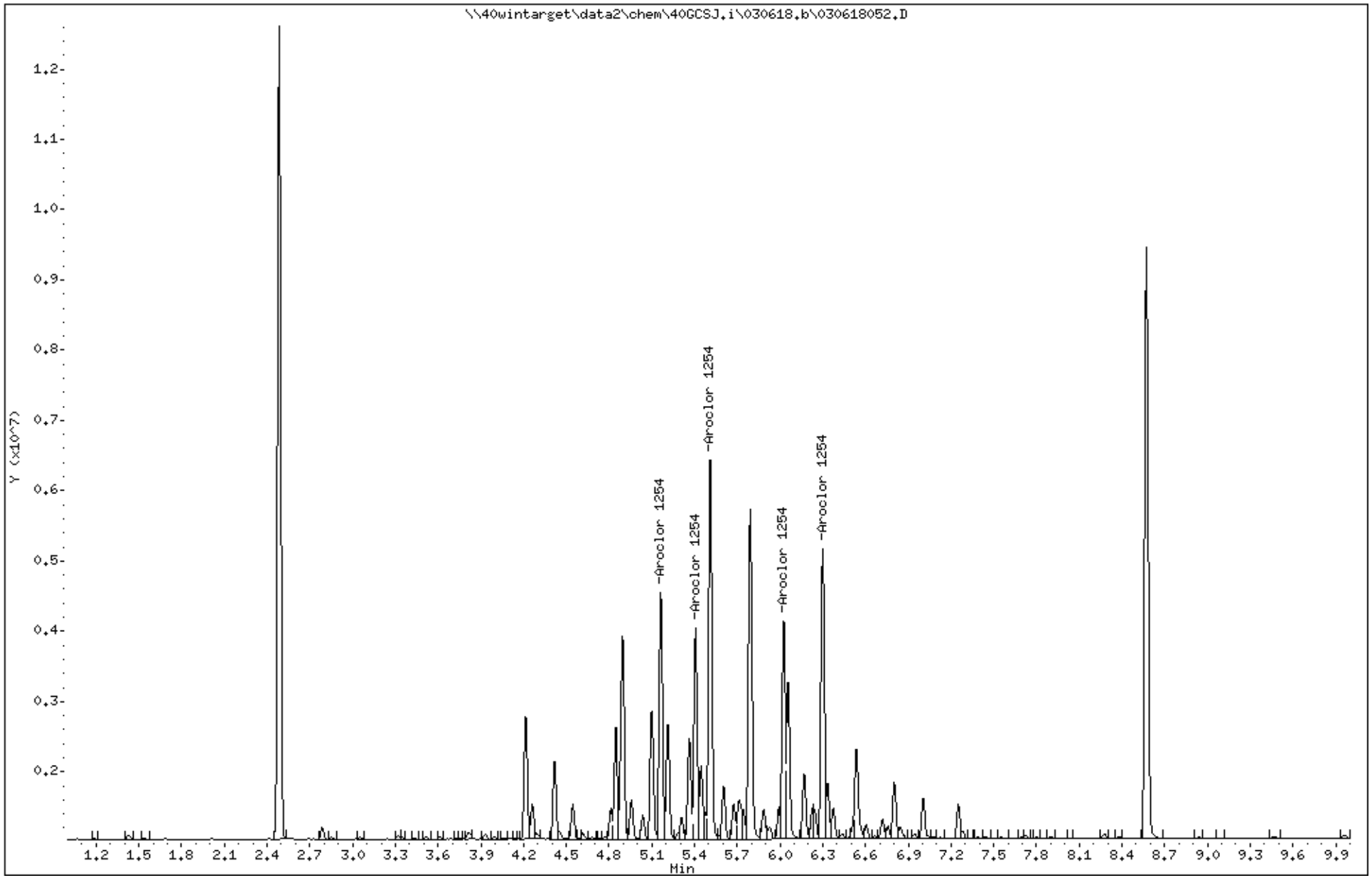
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

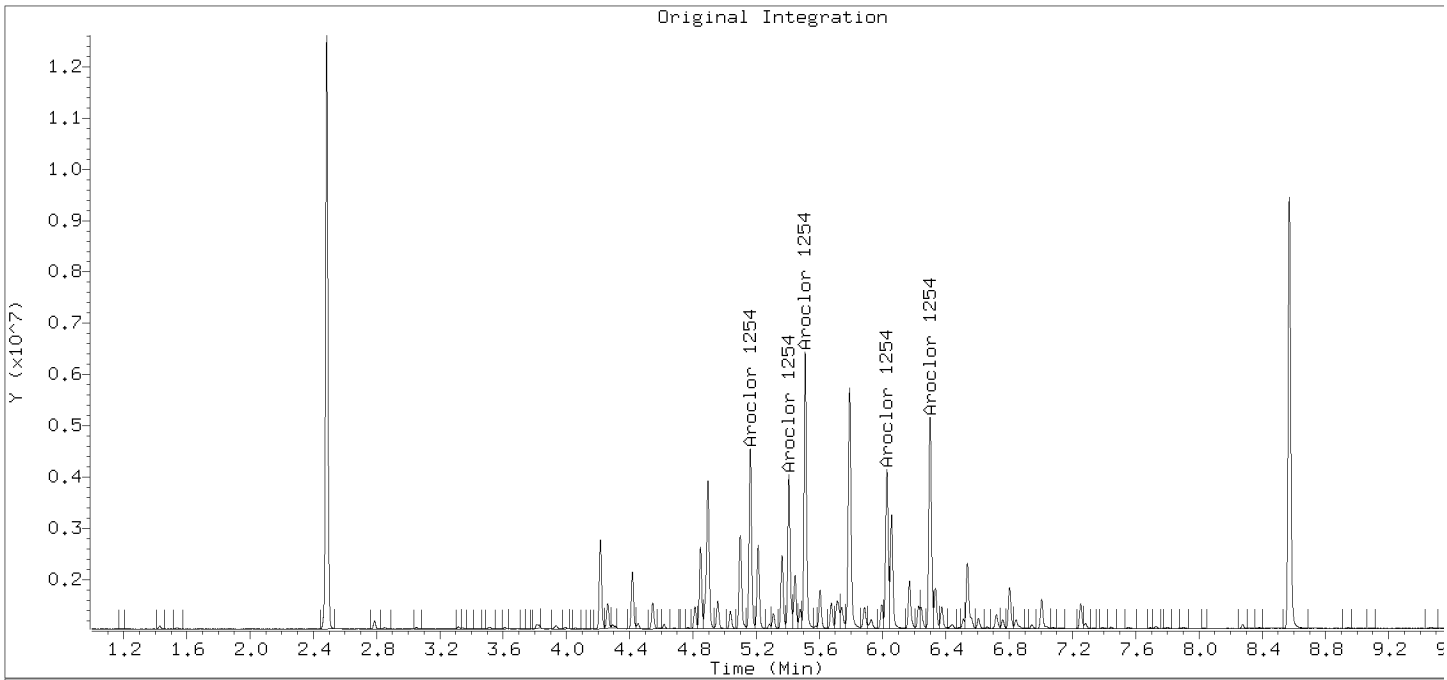
Operator: BLM

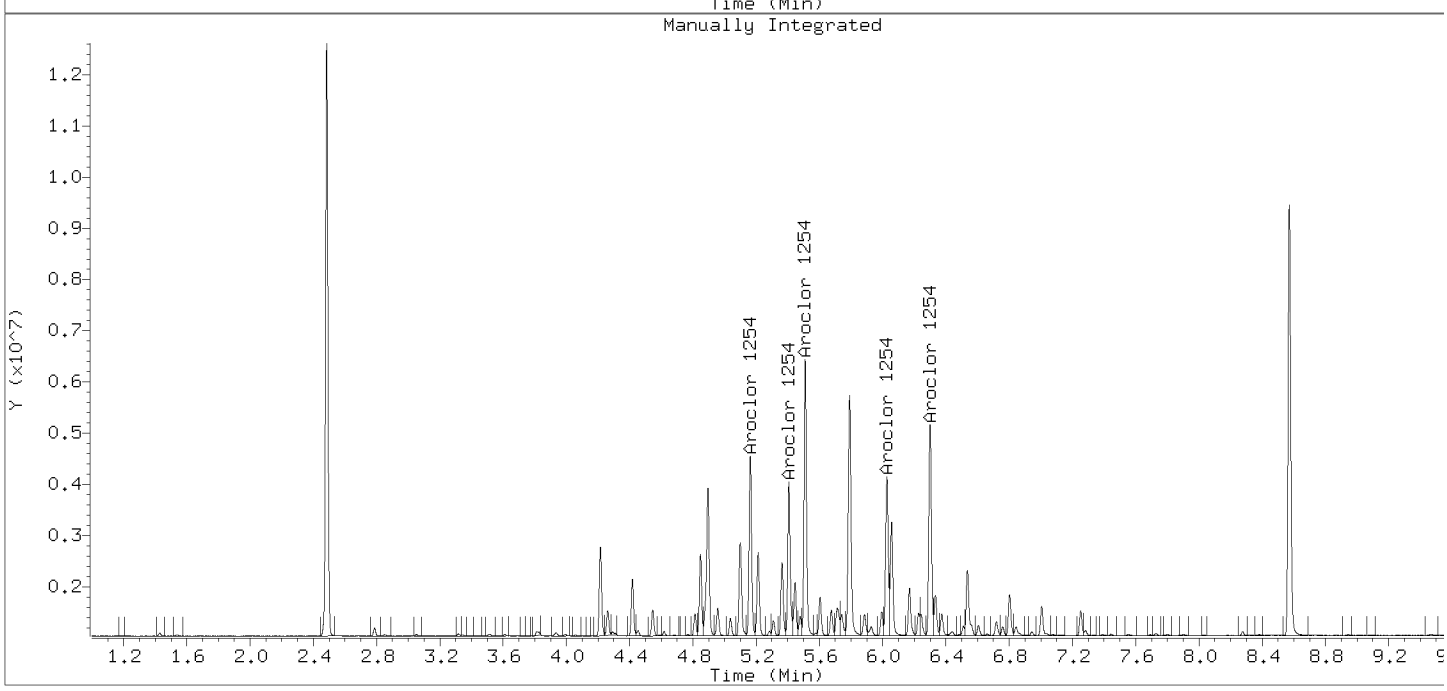
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618052.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL4C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 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
1.181	15243	11962	0.785	0.01		
1.428	96747	89041	0.920	0.08		
1.540	40825	35144	0.861	0.03		
1.682	9327	8894	0.954	0.00		
2.008	10288	9685	0.941	0.00		
2.412	10350	7112	0.687	0.00		
2.485	17725886	17260144	0.974	16.66		
2.787	243100	236365	0.972	0.22		
2.851	36673	32993	0.900	0.03		
3.053	49195	43436	0.883	0.04		
3.319	55642	53004	0.953	0.05		
3.344	37001	30263	0.818	0.03		
3.514	61454	41534	0.676	0.05		
3.611	48883	46459	0.950	0.04		
3.734	9700	13664	1.409	0.00		
3.755	14530	9896	0.681	0.01		
3.814	160653	100699	0.627	0.14		
3.935	113785	77754	0.683	0.10		
3.993	48360	45579	0.942	0.04		
4.058	31144	26153	0.840	0.02		
4.136	14642	14082	0.962	0.01		
4.215	2246411	2105306	0.937	2.04		
4.262	624542	621927	0.996	0.56		
4.292	114086	82473	0.723	0.10		
4.418	1403386	1353229	0.964	1.27		
4.453	133440	127351	0.954	0.12		
4.546	635904	613877	0.965	0.57		
4.594	11699	17033	1.456	0.01		
4.617	92187	94751	1.028	0.08		
4.683	32935	28854	0.876	0.03		
4.735	16261	13245	0.815	0.01		
4.770	37428	36501	0.975	0.03		
4.814	542039	547513	1.010	0.49		
4.848	2045079	1950354	0.954	1.86		
4.896	4464777	3447952	0.772	4.07		
4.957	749670	674930	0.900	0.68		
5.037	447740	427307	0.954	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	2603383	2206600	0.848	2.37	
5.163	4761607	4381606	0.920	4.34	7 Aroclor 1254
5.212	2175024	1931040	0.888	1.98	
5.284	116466	109643	0.941	0.10	
5.309	404504	368472	0.911	0.36	
5.364	1900530	1737928	0.914	1.73	
5.407	4016995	3641293	0.906	3.66	7 Aroclor 1254
5.446	1380053	1254397	0.909	1.25	
5.477	506726	475165	0.938	0.46	
5.511	7207531	6391511	0.887	6.57	7 Aroclor 1254
5.577	67153	63150	0.940	0.06	
5.605	1023947	924404	0.903	0.93	
5.676	661316	643905	0.974	0.60	
5.714	1030048	680082	0.660	0.93	
5.740	635529	535004	0.842	0.57	
5.792	7230180	5601138	0.775	6.59	
5.886	645954	520462	0.806	0.58	
5.927	344827	212793	0.617	0.31	
5.995	613062	588236	0.960	0.55	
6.027	4591491	3986858	0.868	4.18	7 Aroclor 1254
6.056	3223664	2733295	0.848	2.93	
6.169	1328008	1109796	0.836	1.21	
6.228	1042954	573707	0.550	0.95	
6.300	6047377	5045174	0.834	5.51	7 Aroclor 1254
6.334	1117787	991343	0.887	1.01	
6.375	640740	547643	0.855	0.58	
6.437	148401	91961	0.620	0.13	
6.511	228443	228993	1.002	0.20	
6.537	2072914	1543722	0.745	1.89	
6.605	305742	240734	0.787	0.27	
6.662	54744	45287	0.827	0.04	
6.719	410032	340851	0.831	0.37	
6.759	242534	215295	0.888	0.22	
6.803	1169372	1018756	0.871	1.06	
6.844	311718	214607	0.688	0.28	
6.945	110710	91840	0.830	0.10	
7.006	832801	710785	0.853	0.75	
7.076	39055	35215	0.902	0.03	
7.124	42412	24716	0.583	0.03	
7.253	667072	625157	0.937	0.60	
7.283	149721	120610	0.806	0.13	
7.392	31016	25016	0.807	0.02	
7.444	53853	38361	0.712	0.04	
7.554	43717	29353	0.671	0.03	
7.693	32182	28611	0.889	0.02	
7.731	75133	56693	0.755	0.06	
7.801	54585	36993	0.678	0.04	
7.902	45857	33249	0.725	0.04	
8.278	123330	103442	0.839	0.11	
8.379	26036	20581	0.790	0.02	
8.572	14526385	12123277	0.835	13.24	
8.943	32605	19326	0.593	0.02	
9.087	19995	15238	0.762	0.01	
9.471	36056	22732	0.630	0.03	
9.962	37005	22458	0.607	0.03	
	109671291	95714970		100.000	

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 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			
5.163	5.162	0.001	4761607	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	4016994	1.00000	0.93	0.00- 20.00	84.36	BA
5.510	5.510	0.000	7207530	1.00000	0.93	0.00- 20.00	151.37	BA
6.027	6.027	0.000	4591491	1.00000	0.94	0.00- 20.00	96.43	BA
6.299	6.299	0.000	6047377	1.00000	0.93	0.00- 20.00	127.00	BA
Average of Peak Amounts =					0.92800			

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\40GCSJ.i\030618.b\030618054.D

Date : 06-MAR-2018 18:02

Client ID: 1254-CAL5C

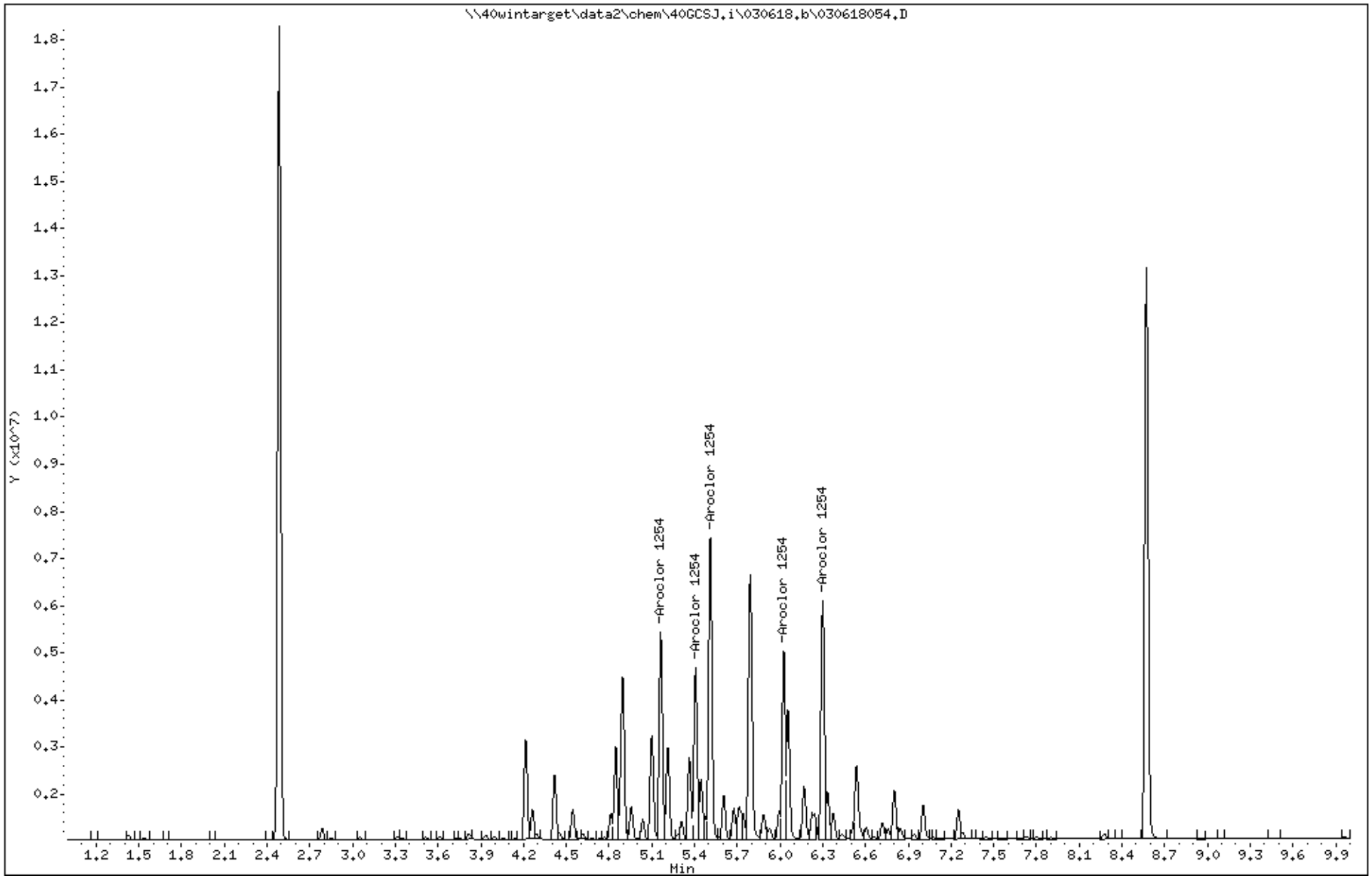
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

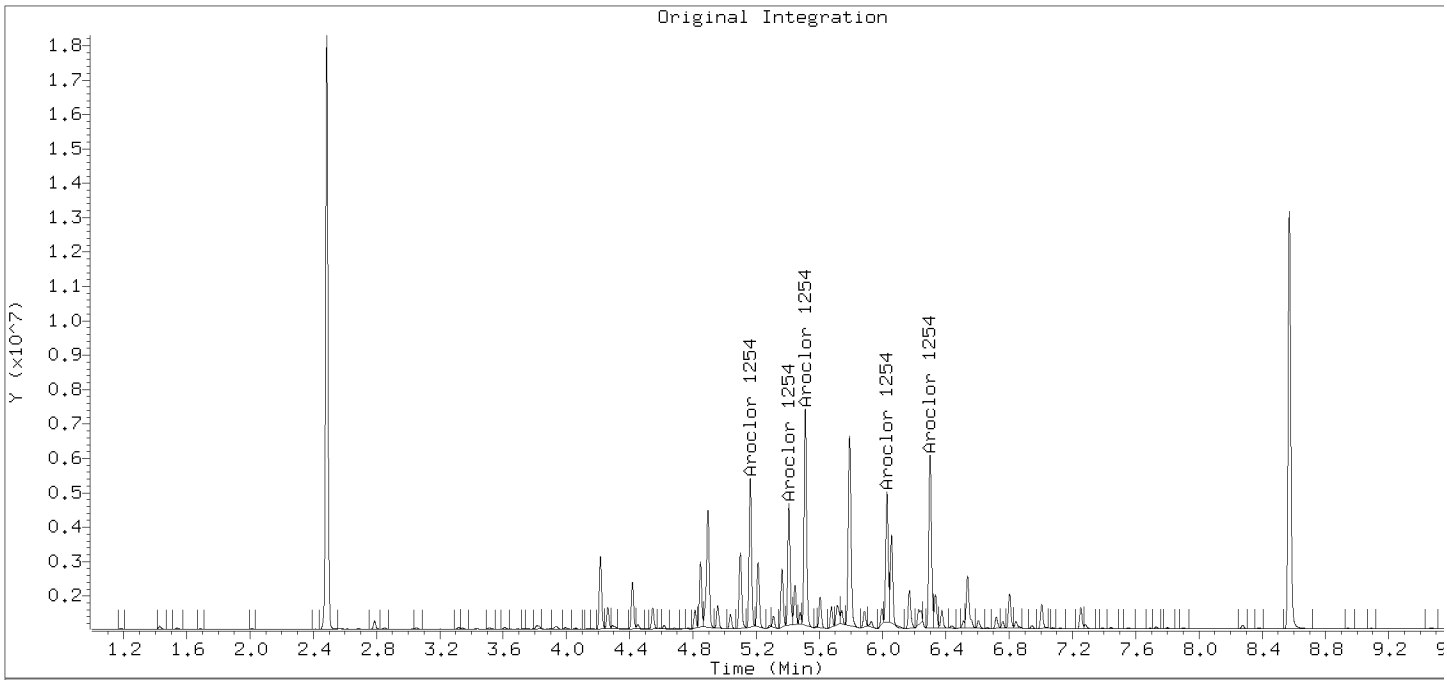
Operator: BLM

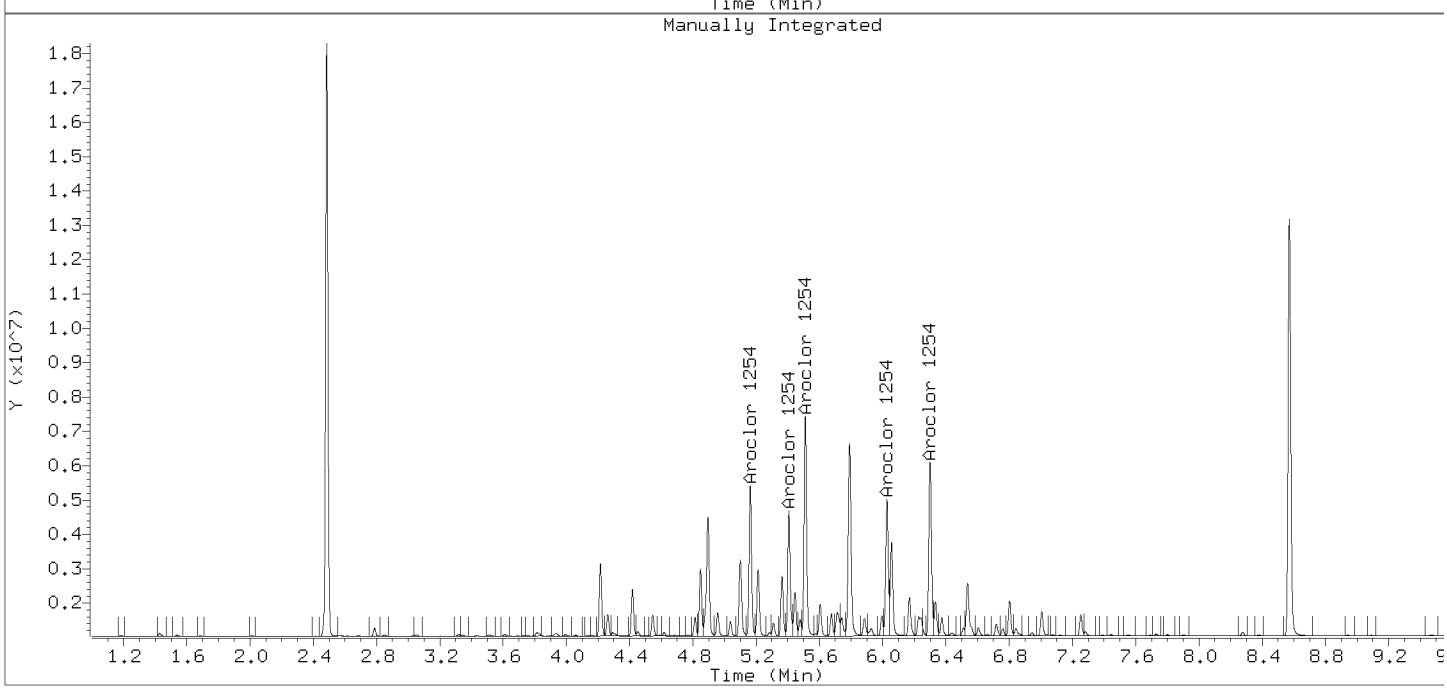
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618054.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 18:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL5C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 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
1.184	75769	59956	0.791	0.39		
1.428	18267	12499	0.684	0.09		
1.686	19257	17034	0.885	0.10		
2.010	41793	33612	0.804	0.22		
2.405	34035	25626	0.753	0.17		
2.485	1265501	1240700	0.980	7.14	$ 2 Tetrachloro-m-xylene	
2.687	45905	38796	0.845	0.24		
2.791	69017	64076	0.928	0.36		
2.850	244595	230348	0.942	1.29		
3.030	26125	23948	0.917	0.13		
3.053	41274	35596	0.862	0.21		
3.319	334670	316544	0.946	1.76	5 Aroclor 1016	BA
3.345	198504	179987	0.907	1.04		
3.434	61488	51551	0.838	0.32		
3.514	336132	236249	0.703	1.77	5 Aroclor 1016	BA
3.732	87942	87307	0.993	0.46		
3.756	56569	52611	0.930	0.29		
3.827	961910	568396	0.591	5.07	5 Aroclor 1016	BA
3.929	407299	336226	0.826	2.14	5 Aroclor 1016	BA
3.995	291299	270962	0.930	1.53	5 Aroclor 1016	BA
4.057	91678	78986	0.862	0.48		
4.137	38165	30755	0.806	0.20		
4.215	245118	232129	0.947	1.29		
4.262	215370	204306	0.949	1.13		
4.294	97069	97854	1.008	0.51		
4.311	121075	108897	0.899	0.63		
4.418	296094	277838	0.938	1.56		
4.452	228098	168917	0.741	1.20		
4.546	376428	345686	0.918	1.98		
4.618	89285	79390	0.889	0.47		
4.725	18650	14732	0.790	0.09		
4.768	15175	13986	0.922	0.08		
4.814	70800	67479	0.953	0.37		
4.847	108064	102590	0.949	0.57		
4.895	365187	264463	0.724	1.92		
4.959	28108	18371	0.654	0.14		
5.037	24776	19872	0.802	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	75151	62358	0.830	0.39	
5.163	285696	262413	0.919	1.50	
5.214	17586	14232	0.809	0.09	
5.362	21031	19306	0.918	0.11	
5.407	87223	72021	0.826	0.46	
5.479	114689	109517	0.955	0.60	
5.511	195439	178257	0.912	1.03	
5.676	287789	270234	0.939	1.51	
5.710	226208	125913	0.557	1.19	
5.787	739489	648842	0.877	3.90	
5.884	50381	44276	0.879	0.26	
5.931	25620	20410	0.797	0.13	
5.994	121209	109219	0.901	0.63	
6.030	272564	261055	0.958	1.43	
6.056	810958	700847	0.864	4.27	
6.170	497456	309560	0.622	2.62	
6.257	116495	69428	0.596	0.61	
6.300	956999	807332	0.844	5.04	8 Aroclor 1260
6.335	137669	122786	0.892	0.72	
6.372	38735	30140	0.778	0.20	
6.433	122734	90057	0.734	0.64	
6.491	23519	28668	1.219	0.12	
6.511	474348	427351	0.901	2.50	
6.534	82021	92139	1.123	0.43	
6.562	294717	250391	0.850	1.55	
6.608	31351	24800	0.791	0.16	
6.660	93675	84477	0.902	0.49	
6.719	499348	457647	0.916	2.63	
6.760	283474	256610	0.905	1.49	
6.805	227703	192558	0.846	1.20	
6.837	47833	39344	0.823	0.25	
6.867	20777	22616	1.089	0.10	
6.913	37481	33795	0.902	0.19	
6.945	99494	87238	0.877	0.52	
7.006	1074661	952659	0.886	5.66	8 Aroclor 1260
7.034	85801	79294	0.924	0.45	
7.076	39830	29520	0.741	0.21	
7.124	76029	48693	0.640	0.40	
7.253	505238	443533	0.878	2.66	8 Aroclor 1260
7.283	161808	121906	0.753	0.85	
7.368	14051	20223	1.439	0.07	
7.390	249151	219715	0.882	1.31	
7.444	313103	259788	0.830	1.65	8 Aroclor 1260
7.555	28224	19645	0.696	0.14	
7.692	126890	112403	0.886	0.66	
7.727	24298	19768	0.814	0.12	
7.780	47376	23329	0.492	0.24	
7.902	285359	230087	0.806	1.50	8 Aroclor 1260
7.967	28076	18551	0.661	0.14	
8.275	73573	62778	0.853	0.38	
8.382	33580	24066	0.717	0.17	
8.573	1252235	1038307	0.829	6.60	$ 12 Decachlorobiphenyl
8.943	22477	18768	0.835	0.11	
9.467	21684	17832	0.822	0.11	
9.963	27944	21020	0.752	0.14	
	18954741	16115997		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 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			
2.485	2.484	0.001	1265501	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	334670	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	336131	0.10000	0.11	0.00- 20.00	100.44	BA
3.826	3.826	0.000	961909	0.10000	0.11	0.00- 20.00	287.42	BA
3.928	3.929	-0.001	407299	0.10000	0.11	0.00- 20.00	121.70	BA
3.995	3.994	0.001	291298	0.10000	0.11	0.00- 20.00	87.04	BA
Average of Peak Amounts =					0.11000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	956999	0.10000	0.11	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	1074661	0.10000	0.11	0.00- 20.00	112.29	CO
7.252	7.251	0.001	505237	0.10000	0.10	0.00- 20.00	52.79	CO
7.444	7.443	0.001	313102	0.10000	0.11	0.00- 20.00	32.72	CO
7.902	7.901	0.001	285359	0.10000	0.11	0.00- 20.00	29.82	CO
Average of Peak Amounts =					0.10800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	1252234	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\40GCSJ.i\030618.b\030618058.D

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

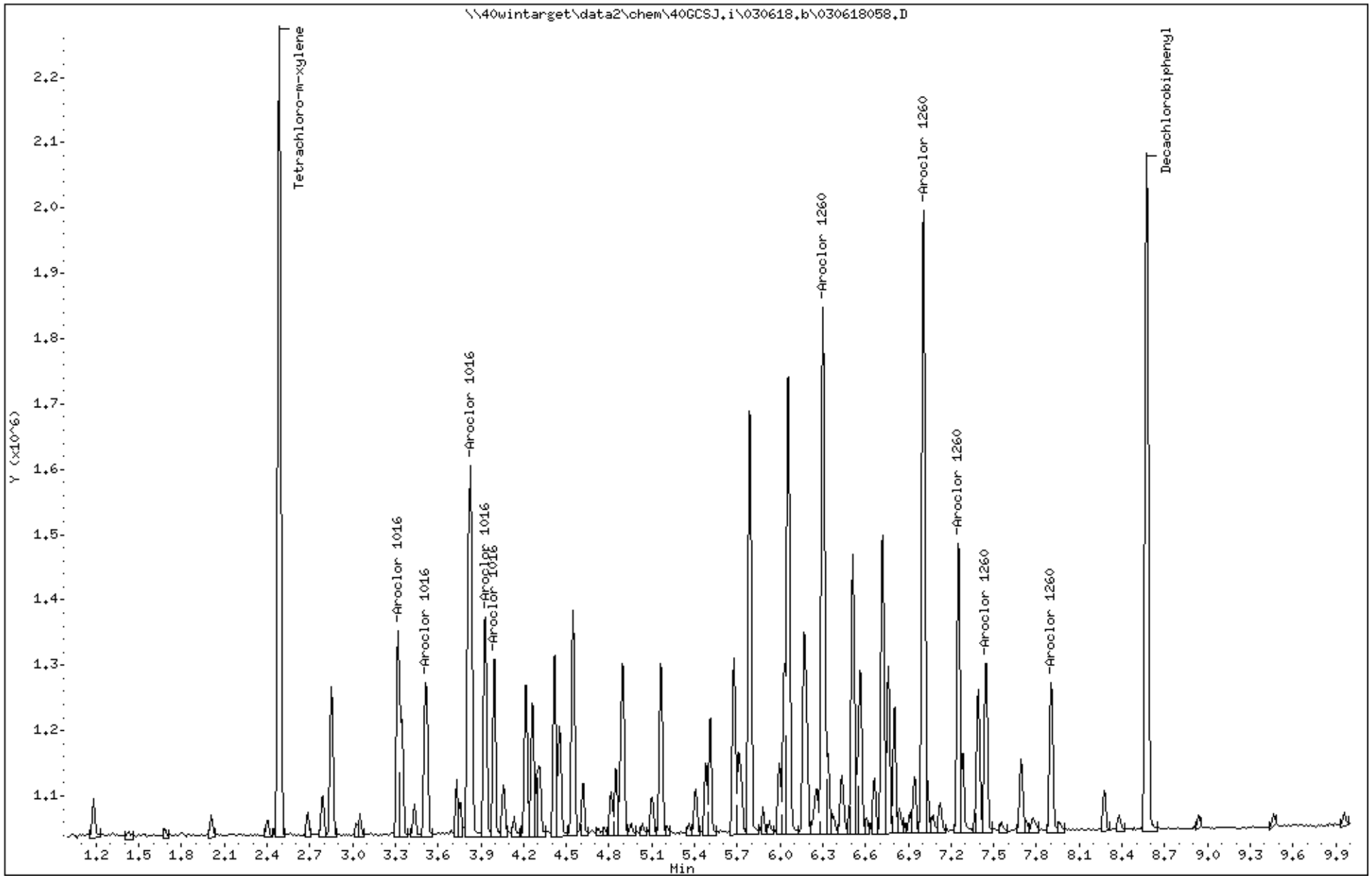
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

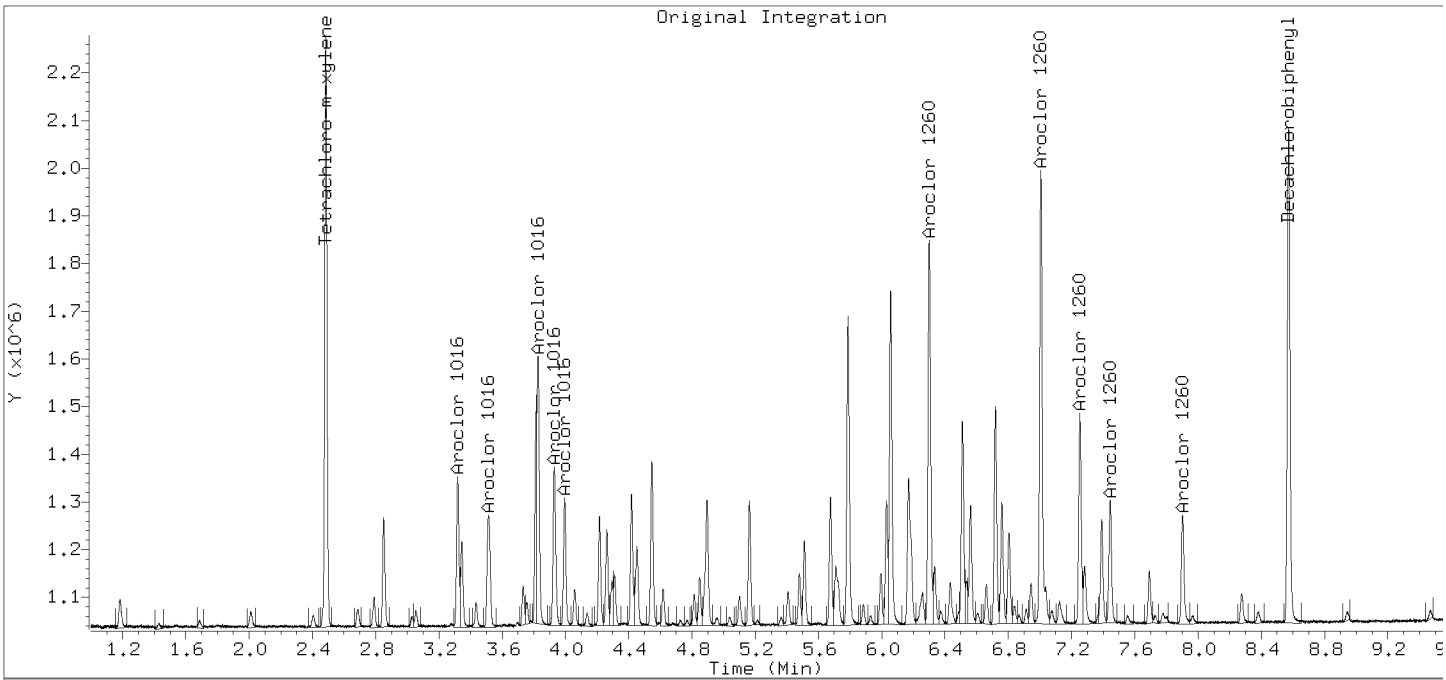
Operator: BLM

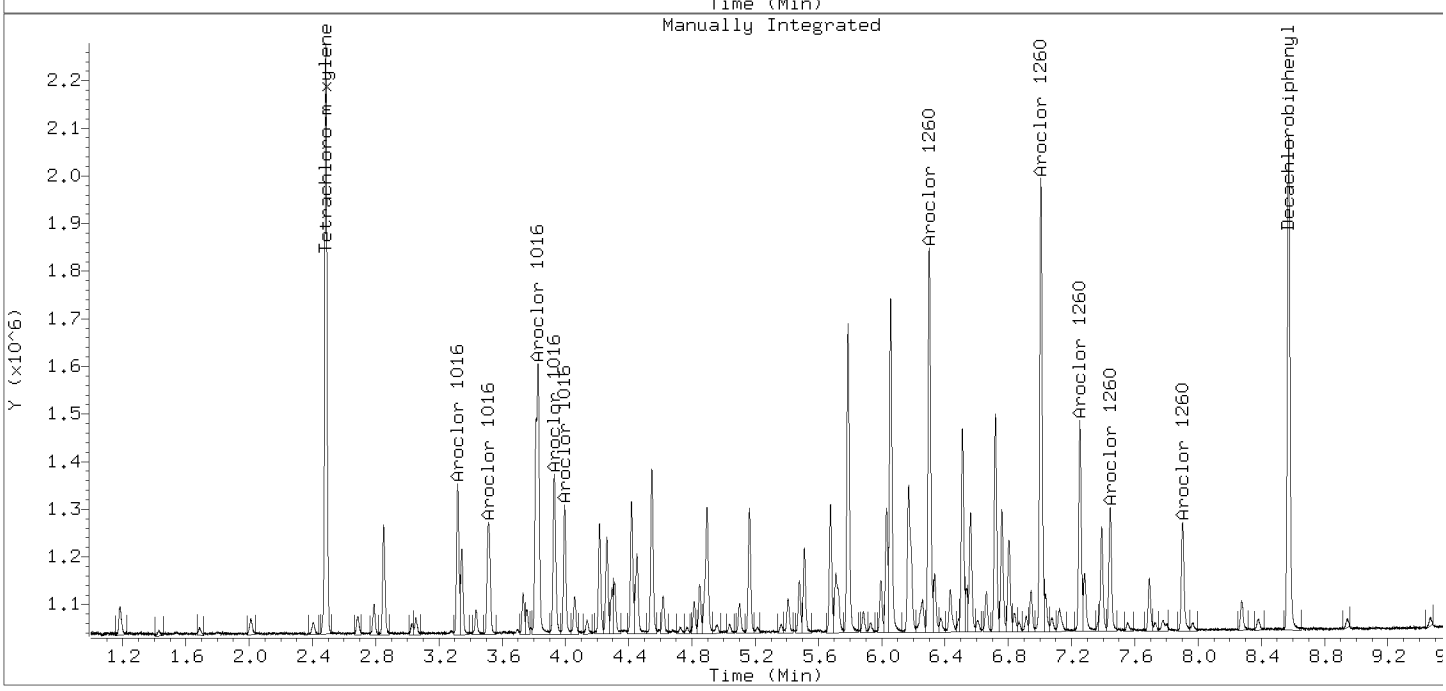
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618058.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL1A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Tetrachloro-m-xylene	1265501	1265501	
Decachlorobiphenyl	1252234	1252234	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 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
1.185	55176	41178	0.746	0.15		
1.429	21015	18585	0.884	0.05		
1.802	12282	8623	0.702	0.03		
2.011	32498	25901	0.797	0.09		
2.404	67139	48192	0.718	0.18		
2.484	2499487	2410686	0.964	7.40	$ 2 Tetrachloro-m-xylene	
2.687	94590	70872	0.749	0.26		
2.789	132356	122708	0.927	0.36		
2.851	469229	448920	0.957	1.30		
3.028	20462	19526	0.954	0.05		
3.054	77836	65563	0.842	0.21		
3.280	13769	10123	0.735	0.03		
3.318	654061	624883	0.955	1.81	5 Aroclor 1016	BA
3.345	373017	342479	0.918	1.03		
3.436	104520	94613	0.905	0.28		
3.513	645015	465357	0.721	1.78	5 Aroclor 1016	BA
3.614	11902	11206	0.942	0.03		
3.697	20307	21558	1.062	0.05		
3.732	166970	164519	0.985	0.46		
3.756	105123	106344	1.012	0.29		
3.827	1858995	1113513	0.599	5.15	5 Aroclor 1016	BA
3.929	794562	664351	0.836	2.20	5 Aroclor 1016	BA
3.995	538852	516167	0.958	1.49	5 Aroclor 1016	BA
4.059	153652	141937	0.924	0.42		
4.137	64387	55721	0.865	0.17		
4.215	463064	450944	0.974	1.28		
4.261	411934	395299	0.960	1.14		
4.293	176764	178584	1.010	0.48		
4.310	214978	205952	0.958	0.59		
4.368	18687	13075	0.700	0.05		
4.417	569211	550417	0.967	1.57		
4.452	428711	317474	0.741	1.18		
4.546	747149	680932	0.911	2.07		
4.617	172002	154821	0.900	0.47		
4.675	18051	11895	0.659	0.05		
4.728	31765	25328	0.797	0.08		
4.768	26719	24282	0.909	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.814	134761	128509	0.954	0.37	
4.849	207904	199310	0.959	0.57	
4.895	688062	504752	0.734	1.90	
4.955	49261	36191	0.735	0.13	
5.037	41204	35409	0.859	0.11	
5.101	147468	124667	0.845	0.40	
5.163	553608	515848	0.932	1.53	
5.211	28275	23336	0.825	0.07	
5.364	42478	33276	0.783	0.11	
5.406	154225	140226	0.909	0.42	
5.478	222337	212066	0.954	0.61	
5.510	375280	336790	0.897	1.03	
5.676	557330	520345	0.934	1.54	
5.710	420039	227627	0.542	1.16	
5.786	1434098	1216006	0.848	3.97	
5.881	99936	84741	0.848	0.27	
5.931	52909	37411	0.707	0.14	
5.994	236171	220443	0.933	0.65	
6.029	525050	521852	0.994	1.45	
6.055	1579576	1350262	0.855	4.37	
6.170	972431	621038	0.639	2.69	
6.256	228441	130747	0.572	0.63	
6.301	1864709	1458728	0.782	5.16	8 Aroclor 1260
6.335	262275	234816	0.895	0.72	
6.375	82478	55139	0.669	0.22	
6.433	206268	167261	0.811	0.57	
6.487	40545	49125	1.212	0.11	
6.510	932649	849322	0.911	2.58	
6.536	166259	180771	1.087	0.46	
6.561	564443	492928	0.873	1.56	
6.605	64137	48977	0.764	0.17	
6.661	181400	157714	0.869	0.50	
6.719	981159	893423	0.911	2.71	
6.759	544707	485293	0.891	1.50	
6.803	436009	386944	0.887	1.20	
6.839	89543	74514	0.832	0.24	
6.868	45779	37984	0.830	0.12	
6.913	64712	61547	0.951	0.17	
6.943	192241	174196	0.906	0.53	
7.006	2085870	1795515	0.861	5.78	8 Aroclor 1260
7.034	145420	142383	0.979	0.40	
7.075	69040	53643	0.777	0.19	
7.122	116391	79463	0.683	0.32	
7.252	997245	885990	0.888	2.76	8 Aroclor 1260
7.284	293602	234376	0.798	0.81	
7.390	506113	423868	0.837	1.40	
7.444	607583	530361	0.873	1.68	8 Aroclor 1260
7.553	47904	35161	0.734	0.13	
7.692	248075	211779	0.854	0.68	
7.729	41616	33711	0.810	0.11	
7.777	25315	19290	0.762	0.07	
7.800	38231	26898	0.704	0.10	
7.900	543647	451004	0.830	1.50	8 Aroclor 1260
7.966	45855	31122	0.679	0.12	
8.275	140866	122403	0.869	0.39	
8.382	29898	21612	0.723	0.08	
8.572	2284568	1922634	0.842	6.33	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.945	25225	17796	0.705	0.06	
9.471	34351	19751	0.575	0.09	
9.964	23512	15629	0.665	0.06	
	36086723	30726451		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 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			
2.484	2.484	0.000	2499486	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	654060	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	645015	0.20000	0.21	0.00- 20.00	98.62	BA
3.826	3.826	0.000	1858994	0.20000	0.21	0.00- 20.00	284.22	BA
3.929	3.929	0.000	794562	0.20000	0.21	0.00- 20.00	121.48	BA
3.994	3.994	0.000	538852	0.20000	0.21	0.00- 20.00	82.39	BA
Average of Peak Amounts =					0.21000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1864709	0.20000	0.21	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	2085870	0.20000	0.21	0.00- 20.00	111.86	CO
7.252	7.251	0.001	997245	0.20000	0.21	0.00- 20.00	53.48	CO
7.443	7.443	0.000	607583	0.20000	0.21	0.00- 20.00	32.58	CO
7.900	7.901	-0.001	543647	0.20000	0.21	0.00- 20.00	29.15	CO
Average of Peak Amounts =					0.21000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	2284567	0.02000	0.021			

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\40GCSJ.i\030618.b\030618060.D

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

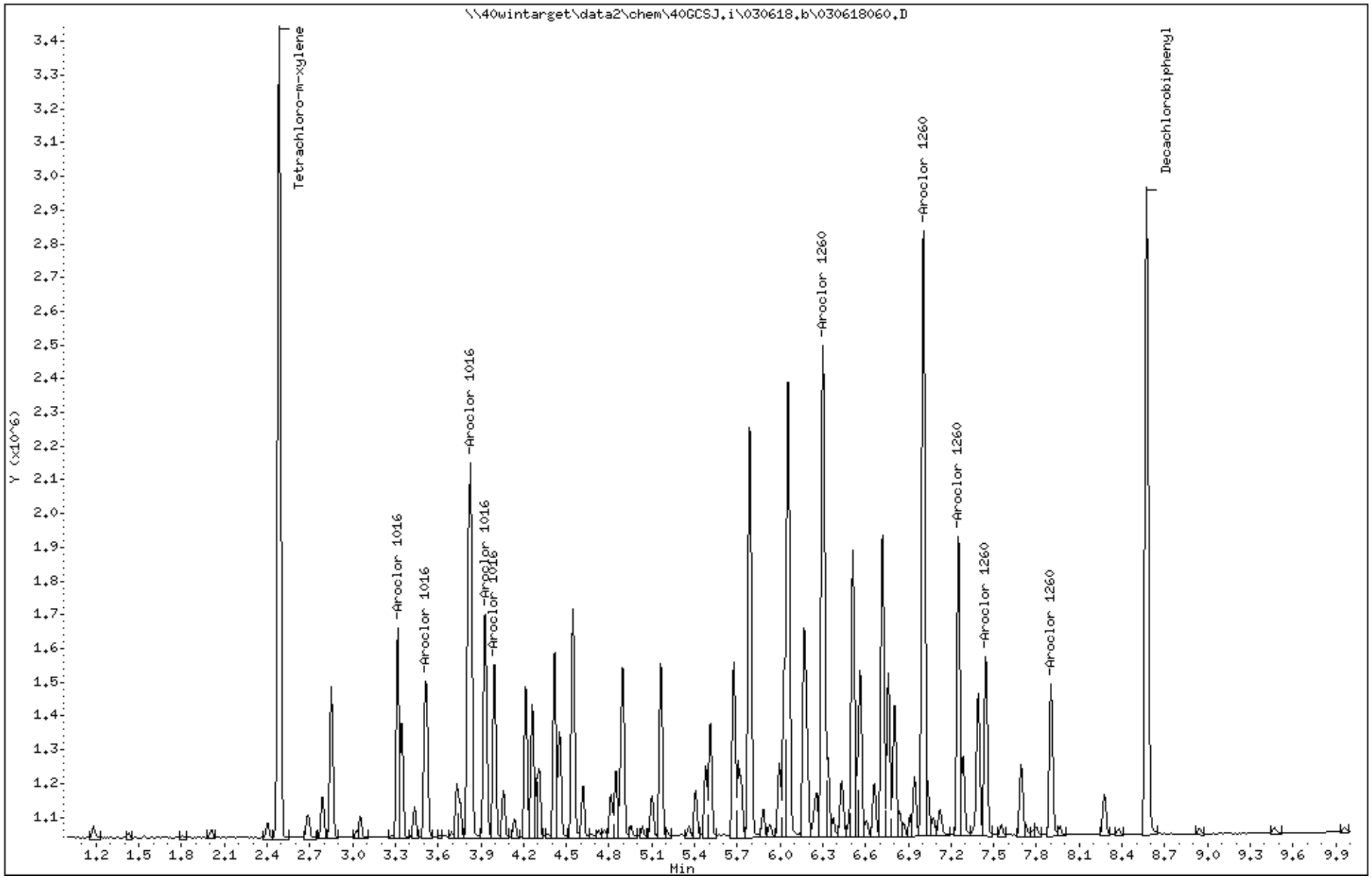
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

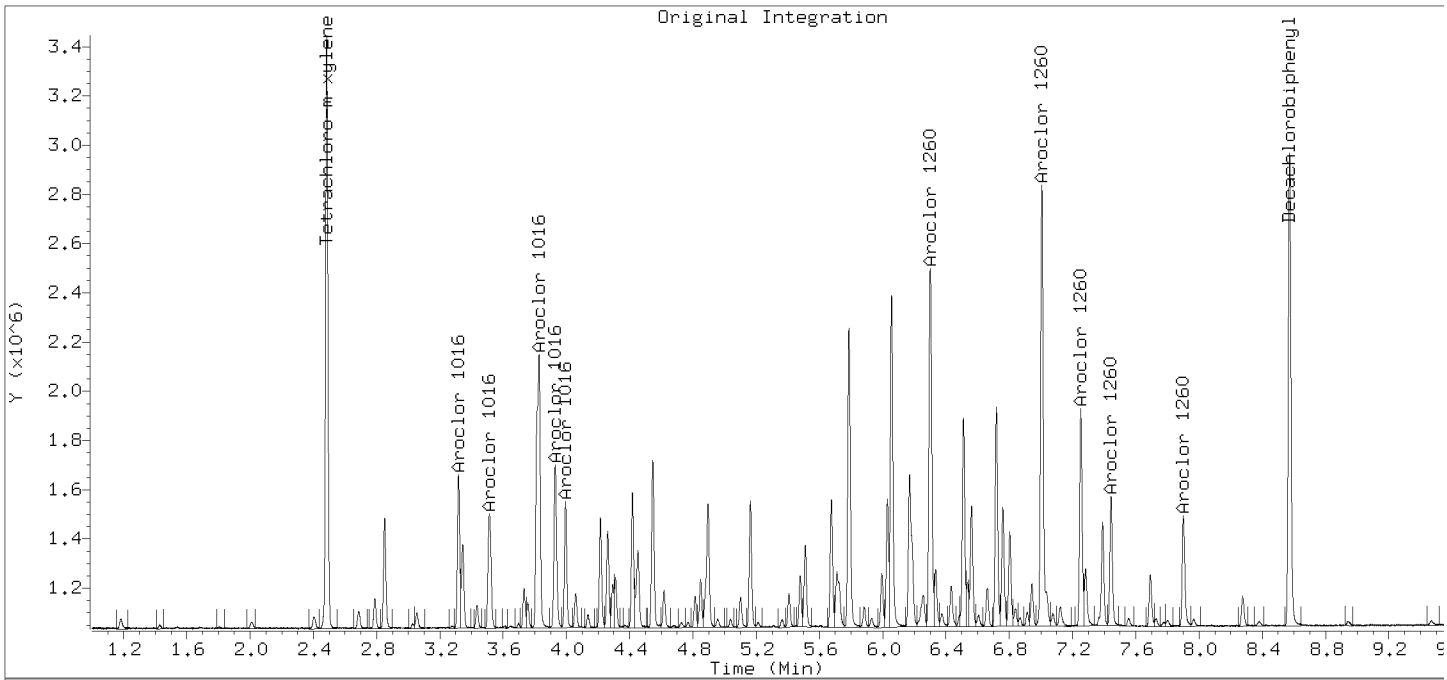
Operator: BLM

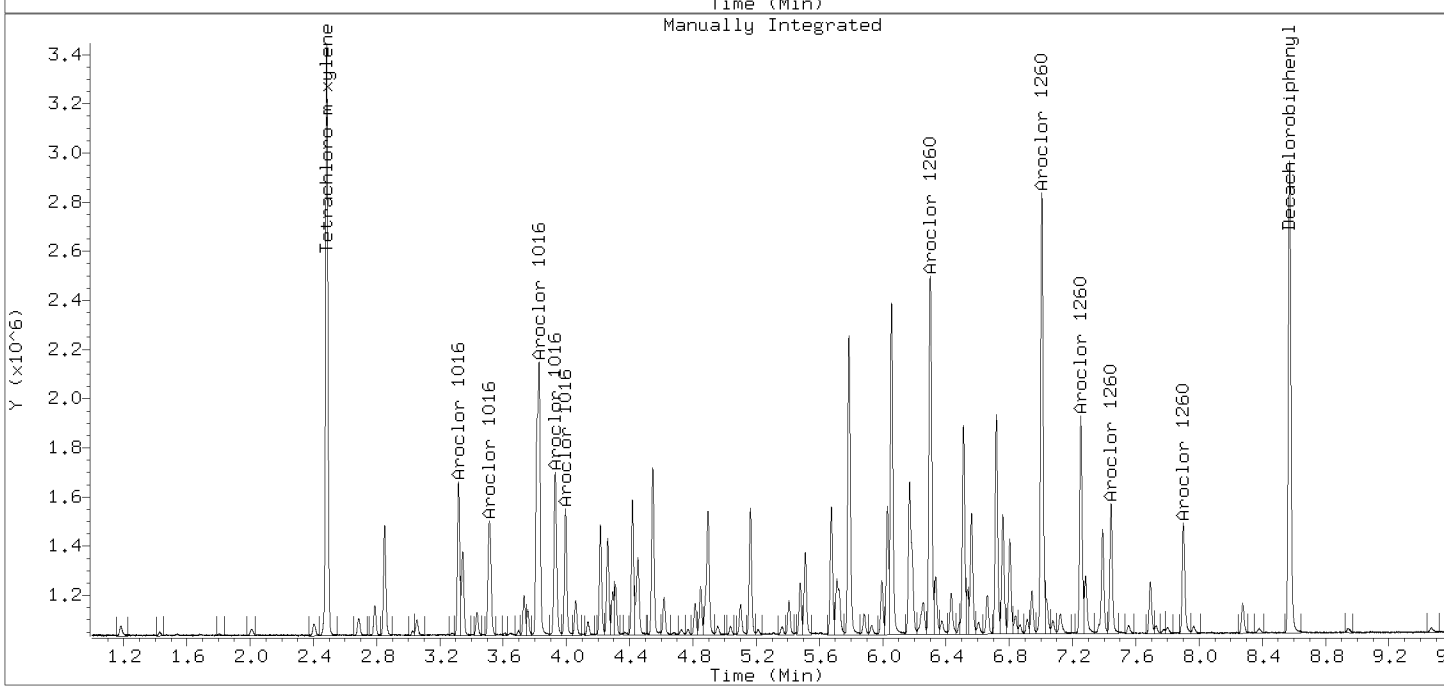
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618060.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Tetrachloro-m-xylene	2499486	2499486	
Decachlorobiphenyl	2284567	2284567	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 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
1.182	73481	56448	0.768	0.08		
1.429	38001	32608	0.858	0.04		
1.537	20915	15456	0.739	0.02		
1.685	19161	19298	1.007	0.02		
1.803	18038	14682	0.814	0.02		
2.010	53413	35717	0.669	0.06		
2.404	140743	111047	0.789	0.16		
2.484	6057237	5892667	0.973	7.63	$ 2 Tetrachloro-m-xylene	
2.687	201241	167032	0.830	0.23		
2.789	304363	285330	0.937	0.35		
2.851	1109963	1029461	0.927	1.31		
3.031	24750	24475	0.989	0.02		
3.055	178487	159145	0.892	0.21		
3.278	26481	21063	0.795	0.03		
3.318	1513499	1414991	0.935	1.78	5 Aroclor 1016	BA
3.345	880540	822356	0.934	1.04		
3.434	247038	220109	0.891	0.29		
3.513	1532387	1090208	0.711	1.81	5 Aroclor 1016	BA
3.611	27202	25734	0.946	0.03		
3.647	29738	19736	0.664	0.03		
3.697	43175	42217	0.978	0.05		
3.732	381498	383355	1.005	0.45		
3.756	273430	243142	0.889	0.32		
3.826	4314630	2564491	0.594	5.10	5 Aroclor 1016	BA
3.929	1875063	1563785	0.834	2.21	5 Aroclor 1016	BA
3.994	1275640	1205112	0.945	1.50	5 Aroclor 1016	BA
4.059	356271	321194	0.902	0.42		
4.137	142724	126589	0.887	0.16		
4.215	1091767	1043921	0.956	1.29		
4.261	983477	936778	0.953	1.16		
4.293	419201	426725	1.018	0.49		
4.310	507212	485823	0.958	0.59		
4.372	34974	24662	0.705	0.04		
4.418	1378494	1285521	0.933	1.63		
4.452	991992	777670	0.784	1.17		
4.545	1720081	1585302	0.922	2.03		
4.591	26254	25937	0.988	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	390639	352630	0.903	0.46	
4.680	45442	27438	0.604	0.05	
4.728	65437	52451	0.802	0.07	
4.768	60652	53450	0.881	0.07	
4.813	315747	306151	0.970	0.37	
4.848	490062	474651	0.969	0.57	
4.895	1609352	1151281	0.715	1.90	
4.957	109800	84138	0.766	0.12	
5.038	90170	81334	0.902	0.10	
5.101	330531	287340	0.869	0.39	
5.162	1311328	1213988	0.926	1.55	
5.213	62406	49170	0.788	0.07	
5.308	18942	13697	0.723	0.02	
5.364	102693	89831	0.875	0.12	
5.407	358555	326663	0.911	0.42	
5.444	17182	16887	0.983	0.02	
5.478	520000	499018	0.960	0.61	
5.510	901921	830532	0.921	1.06	
5.574	21617	18709	0.865	0.02	
5.607	22890	17618	0.770	0.02	
5.675	1323137	1193469	0.902	1.56	
5.710	966061	548770	0.568	1.14	
5.786	3269149	2832194	0.866	3.86	
5.883	222136	199869	0.900	0.26	
5.929	105245	84776	0.806	0.12	
5.994	562299	517914	0.921	0.66	
6.030	1251900	1210482	0.967	1.48	
6.056	3581989	3121113	0.871	4.23	
6.170	2328780	1484198	0.637	2.75	
6.257	533348	316626	0.594	0.63	
6.300	4328765	3602666	0.832	5.11	8 Aroclor 1260
6.332	635873	554609	0.872	0.75	
6.374	166590	132594	0.796	0.19	
6.433	464363	404511	0.871	0.54	
6.487	99285	119042	1.199	0.11	
6.509	2148304	1882394	0.876	2.54	
6.535	394424	422591	1.071	0.46	
6.561	1341525	1196072	0.892	1.58	
6.604	141409	115102	0.814	0.16	
6.661	417039	383638	0.920	0.49	
6.718	2289697	1970989	0.861	2.70	
6.759	1295745	1116495	0.862	1.53	
6.804	1058424	934717	0.883	1.25	
6.838	199169	171583	0.861	0.23	
6.866	100126	89213	0.891	0.11	
6.912	156733	140038	0.893	0.18	
6.944	453234	417139	0.920	0.53	
7.005	4908203	4291027	0.874	5.80	8 Aroclor 1260
7.035	325498	318921	0.980	0.38	
7.075	167281	127630	0.763	0.19	
7.122	238259	189781	0.797	0.28	
7.252	2360655	2040658	0.864	2.79	8 Aroclor 1260
7.282	691639	556699	0.805	0.81	
7.390	1210833	979598	0.809	1.43	
7.444	1443850	1242584	0.861	1.70	8 Aroclor 1260
7.553	121232	82650	0.682	0.14	
7.691	577449	516541	0.895	0.68	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.728	106585	81318	0.763	0.12	
7.777	24225	28669	1.183	0.02	
7.800	83574	56954	0.681	0.09	
7.901	1312523	1129026	0.860	1.55	8 Aroclor 1260
7.965	102499	75394	0.736	0.12	
8.275	325997	297080	0.911	0.38	
8.377	45903	31430	0.685	0.05	
8.572	5312752	4519291	0.851	6.28	$ 12 Decachlorobiphenyl
8.739	26600	11588	0.436	0.03	
8.943	52533	33251	0.633	0.06	
8.993	10265	8473	0.825	0.01	
9.015	10050	7503	0.747	0.01	
9.470	52157	34850	0.668	0.06	
9.961	54045	36108	0.668	0.06	
	84557281	72306592		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 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			
2.484	2.484	0.000	6057237	0.05000	0.049			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1513499	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1532387	0.50000	0.49	0.00- 20.00	101.25	BA
3.826	3.826	0.000	4314629	0.50000	0.49	0.00- 20.00	285.08	BA
3.928	3.929	-0.001	1875063	0.50000	0.50	0.00- 20.00	123.89	BA
3.994	3.994	0.000	1275639	0.50000	0.49	0.00- 20.00	84.28	BA
Average of Peak Amounts =					0.49200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4328764	0.50000	0.49	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	4908203	0.50000	0.49	0.00- 20.00	113.39	CO
7.251	7.251	0.000	2360654	0.50000	0.49	0.00- 20.00	54.53	CO
7.443	7.443	0.000	1443849	0.50000	0.50	0.00- 20.00	33.35	CO
7.901	7.901	0.000	1312522	0.50000	0.50	0.00- 20.00	30.32	CO
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5312751	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

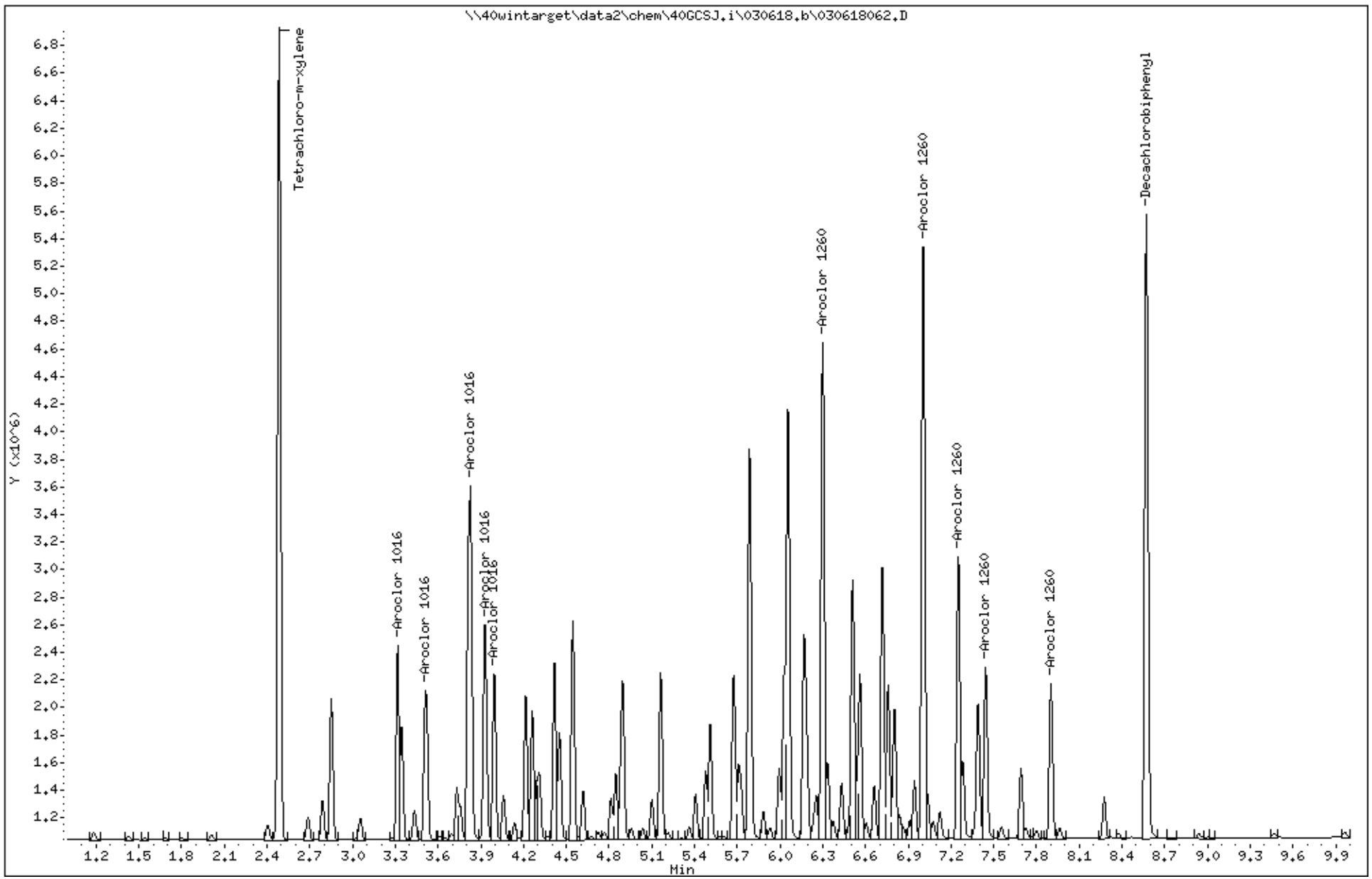
QC Flag Legend

Review Codes Legend

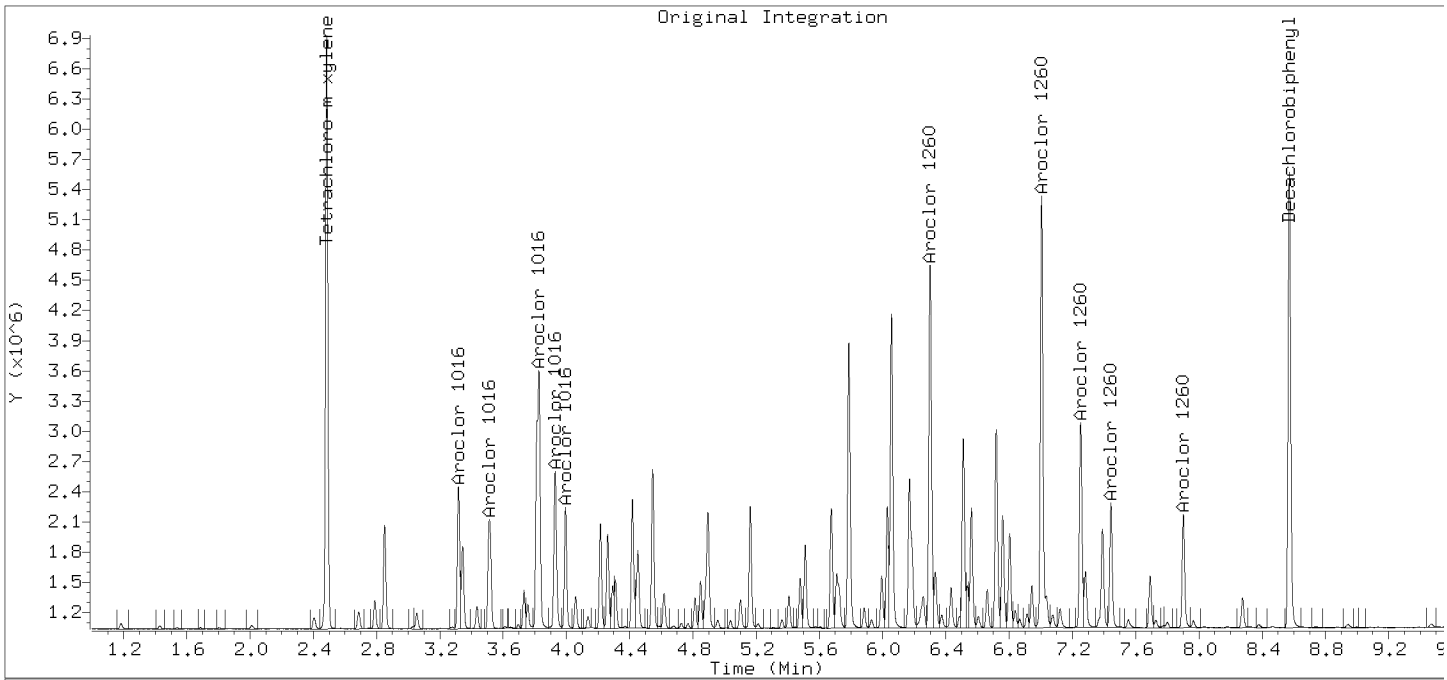
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

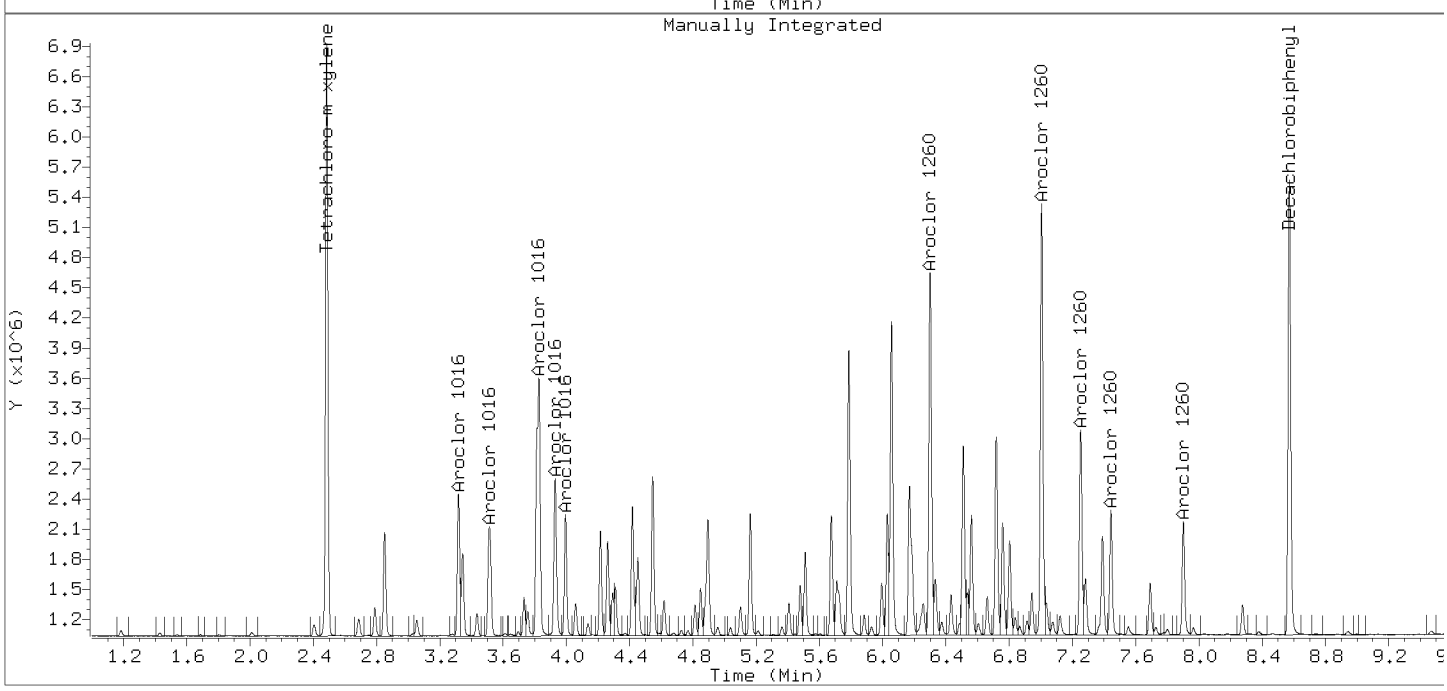
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618062.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Tetrachloro-m-xylene	6057237	6057237	
Decachlorobiphenyl	5312751	5312751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 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
1.183	51048	39743	0.779	0.03		
1.428	67658	59771	0.883	0.05		
1.537	35520	27064	0.762	0.02		
1.684	11345	12242	1.079	0.00		
1.804	26637	21421	0.804	0.01		
2.010	30322	24464	0.807	0.02		
2.405	217693	168016	0.772	0.16		
2.485	12180956	11703129	0.961	9.57	$ 2 Tetrachloro-m-xylene	
2.686	324056	263363	0.813	0.24		
2.788	503381	488978	0.971	0.37		
2.851	1715701	1591093	0.927	1.27		
3.033	12533	16182	1.291	0.00		
3.055	262518	238547	0.909	0.19		
3.277	37151	29842	0.803	0.02		
3.318	2333577	2156053	0.924	1.73	5 Aroclor 1016	BA
3.344	1347877	1252078	0.929	1.00		
3.435	374972	344552	0.919	0.27		
3.513	2362745	1662196	0.704	1.75	5 Aroclor 1016	BA
3.610	37684	33923	0.900	0.02		
3.644	36588	23793	0.650	0.02		
3.697	64716	64546	0.997	0.04		
3.733	614707	615053	1.001	0.45		
3.757	393294	383146	0.974	0.29		
3.827	6746065	3969633	0.588	5.01	5 Aroclor 1016	BA
3.929	2864977	2413896	0.843	2.12	5 Aroclor 1016	BA
3.995	1946759	1862950	0.957	1.44	5 Aroclor 1016	BA
4.059	556550	510919	0.918	0.41		
4.136	217971	201589	0.925	0.16		
4.215	1671721	1557184	0.931	1.24		
4.262	1509426	1424890	0.944	1.12		
4.293	644274	673004	1.045	0.47		
4.310	801855	741139	0.924	0.59		
4.372	46455	38102	0.820	0.03		
4.418	2086121	1916658	0.919	1.55		
4.453	1561367	1168414	0.748	1.16		
4.546	2691796	2429747	0.903	2.00		
4.618	614879	582697	0.948	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	40268	29964	0.744	0.02	
4.726	97409	80777	0.829	0.07	
4.769	84631	79528	0.940	0.06	
4.813	496125	477191	0.962	0.36	
4.848	769915	758419	0.985	0.57	
4.895	2431191	1773420	0.729	1.80	
4.957	158097	128688	0.814	0.11	
5.037	141886	125690	0.886	0.10	
5.100	509908	441468	0.866	0.37	
5.163	1980314	1775935	0.897	1.47	
5.213	95707	77428	0.809	0.07	
5.309	25285	19192	0.759	0.01	
5.364	136686	126726	0.927	0.10	
5.407	557655	538024	0.965	0.41	
5.447	22003	24599	1.118	0.01	
5.478	803193	761709	0.948	0.59	
5.511	1404548	1270014	0.904	1.04	
5.606	31361	23033	0.734	0.02	
5.676	2014749	1859939	0.923	1.49	
5.711	1494302	813162	0.544	1.11	
5.786	4990155	4308283	0.863	3.70	
5.884	340816	299117	0.878	0.25	
5.929	164472	137221	0.834	0.12	
5.994	852561	813094	0.954	0.63	
6.031	1912065	1795299	0.939	1.42	
6.057	5492951	4849840	0.883	4.08	
6.169	3549907	2212097	0.623	2.63	
6.255	812378	476866	0.587	0.60	
6.300	6710843	5584923	0.832	4.98	8 Aroclor 1260
6.334	997961	870632	0.872	0.74	
6.374	242400	190548	0.786	0.18	
6.432	705567	608791	0.863	0.52	
6.487	129043	188452	1.460	0.09	
6.511	3293621	2899546	0.880	2.44	
6.536	647596	661803	1.022	0.48	
6.562	2057795	1823223	0.886	1.52	
6.605	225392	179290	0.795	0.16	
6.661	658391	628771	0.955	0.48	
6.719	3522957	3237666	0.919	2.61	
6.760	1974466	1743981	0.883	1.46	
6.804	1651358	1397674	0.846	1.22	
6.839	305859	257806	0.843	0.22	
6.868	154872	136206	0.879	0.11	
6.913	224919	208551	0.927	0.16	
6.944	715915	663774	0.927	0.53	
7.005	7621579	7030639	0.922	5.66	8 Aroclor 1260
7.036	534386	507176	0.949	0.39	
7.076	240666	196245	0.815	0.17	
7.122	345690	285294	0.825	0.25	
7.222	14224	14841	1.043	0.01	
7.252	3661924	3266511	0.892	2.72	8 Aroclor 1260
7.283	1069136	892362	0.835	0.79	
7.390	1852151	1502868	0.811	1.37	
7.443	2216952	1888648	0.852	1.64	8 Aroclor 1260
7.552	171302	132932	0.776	0.12	
7.692	911316	814697	0.894	0.67	
7.728	156368	125258	0.801	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.777	11035	17805	1.614	0.00	
7.802	122291	99621	0.815	0.09	
7.901	2009348	1700247	0.846	1.49	8 Aroclor 1260
7.965	142693	115147	0.807	0.10	
8.076	14691	9375	0.638	0.01	
8.277	552327	476813	0.863	0.41	
8.383	35077	22743	0.648	0.02	
8.572	10160226	8786744	0.865	7.55	$ 12 Decachlorobiphenyl
8.945	25819	16899	0.655	0.01	
9.091	15971	14108	0.883	0.01	
9.470	23386	15627	0.668	0.01	
9.964	26995	17470	0.647	0.02	
	134567937	116018447		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 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			
2.484	2.484	0.000	12180955	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	2333576	0.80000	0.76	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2362744	0.80000	0.76	0.00- 20.00	101.25	BA
3.826	3.826	0.000	6746064	0.80000	0.76	0.00- 20.00	289.09	BA
3.929	3.929	0.000	2864977	0.80000	0.76	0.00- 20.00	122.77	BA
3.995	3.994	0.001	1946758	0.80000	0.75	0.00- 20.00	83.42	BA
Average of Peak Amounts =					0.75800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	6710842	0.80000	0.76	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	7621578	0.80000	0.76	0.00- 20.00	113.57	BA
7.252	7.251	0.001	3661923	0.80000	0.77	0.00- 20.00	54.57	BA
7.443	7.443	0.000	2216952	0.80000	0.76	0.00- 20.00	33.04	BA
7.901	7.901	0.000	2009347	0.80000	0.76	0.00- 20.00	29.94	BA
Average of Peak Amounts =					0.76200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10160225	0.10000	0.093			

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\40GCSJ.i\030618.b\030618064.D

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

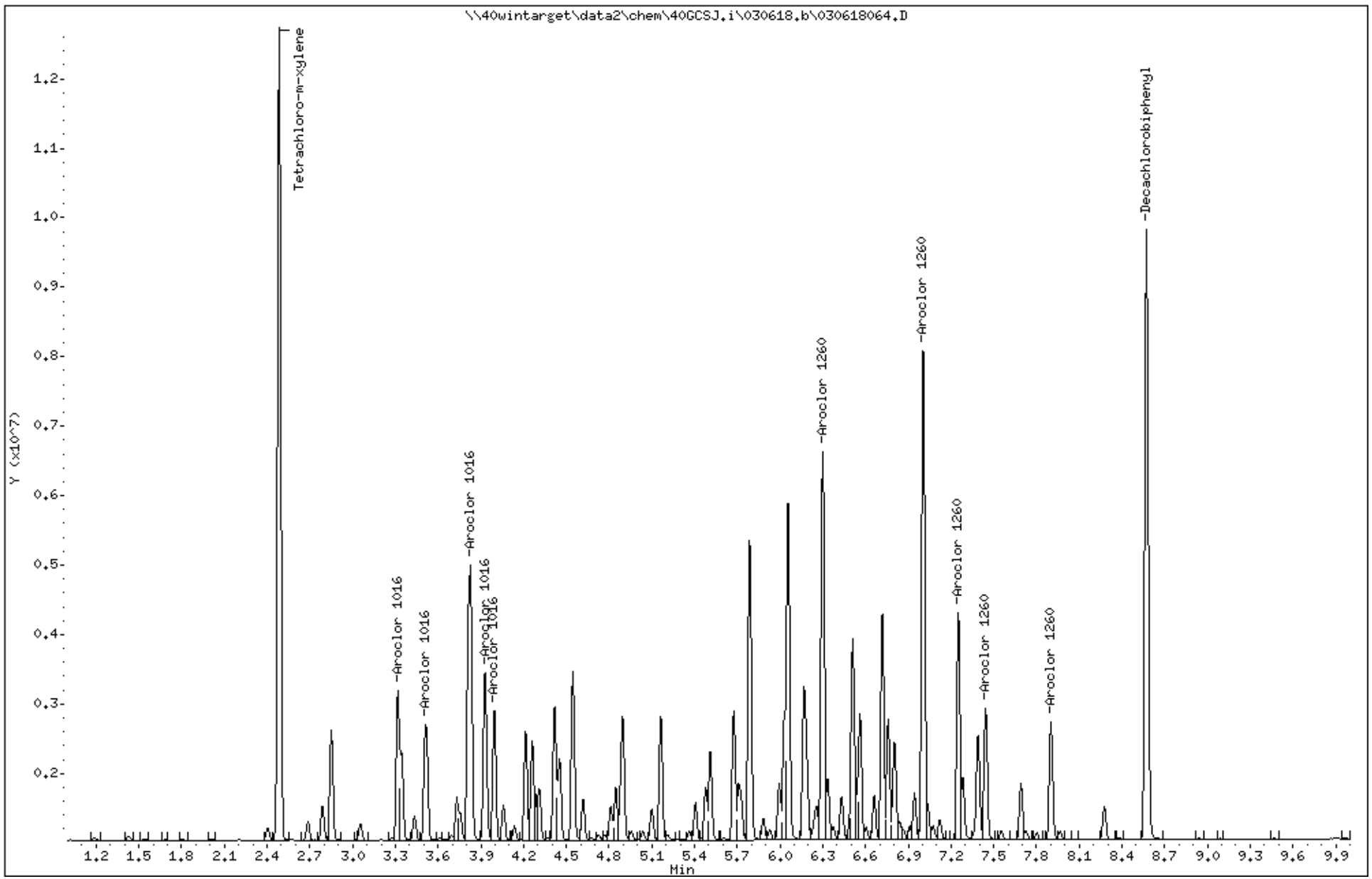
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

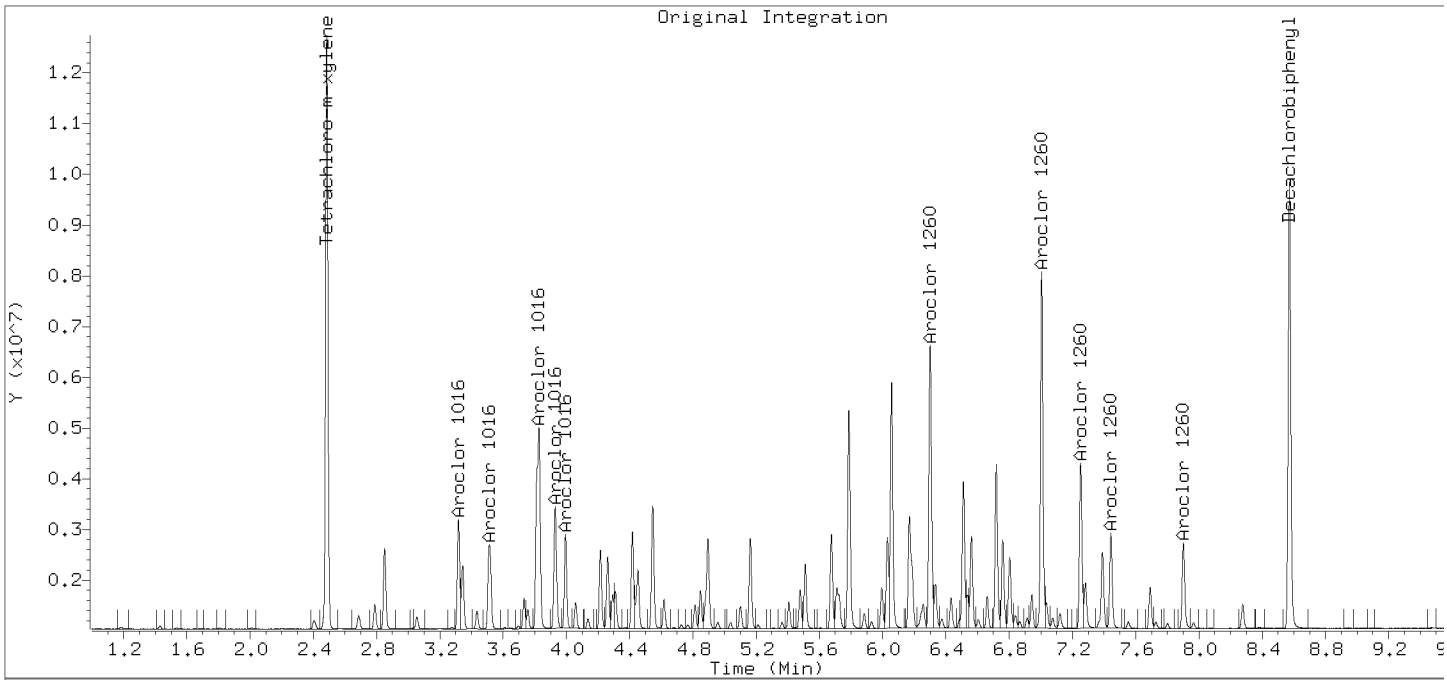
Operator: BLM

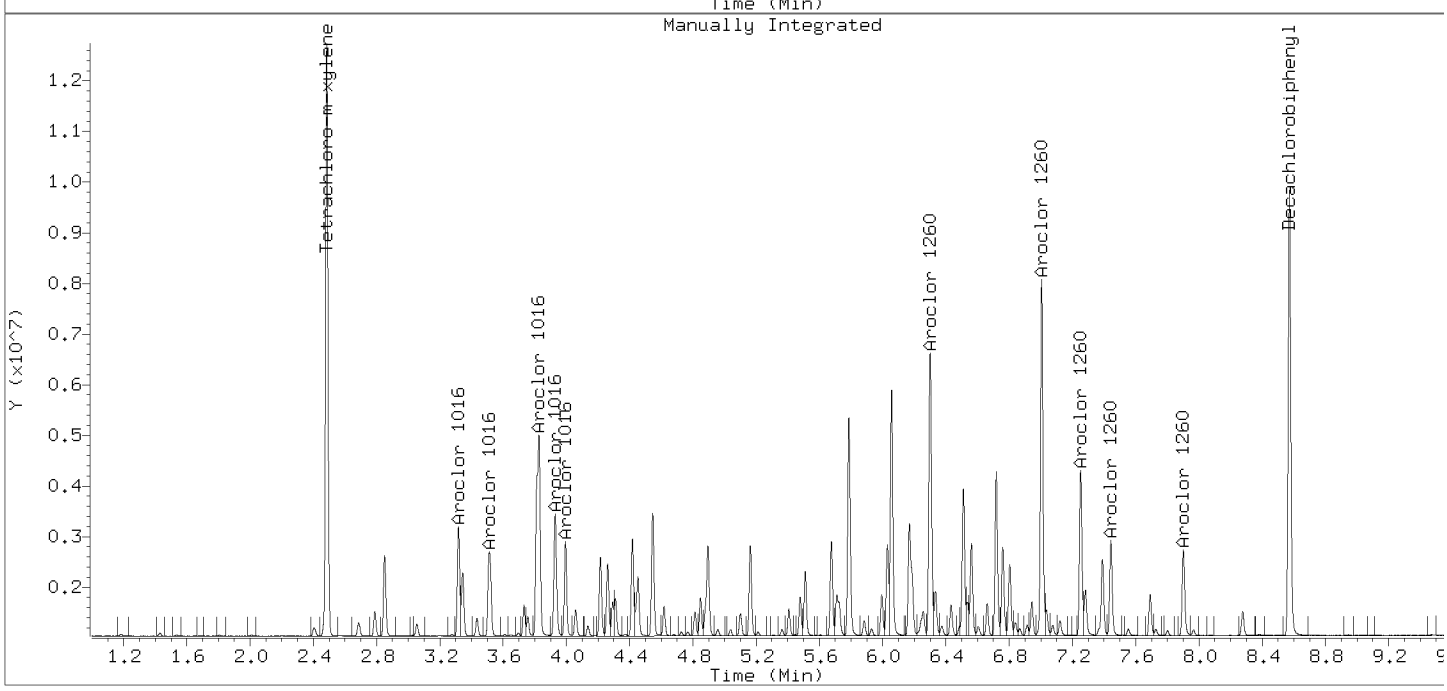
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618064.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Tetrachloro-m-xylene	12180955	12180955	
Decachlorobiphenyl	10160225	10160225	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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
1.187	97781	71878	0.735	0.05		
1.429	107893	87519	0.811	0.06		
1.538	44327	37507	0.846	0.02		
1.689	14954	14333	0.958	0.00		
1.805	29740	28315	0.952	0.01		
2.010	60528	44274	0.731	0.03		
2.195	10025	8478	0.846	0.00		
2.405	262681	207562	0.790	0.15		
2.485	18299527	17728359	0.969	11.17	$ 2 Tetrachloro-m-xylene	
2.688	390097	317641	0.814	0.22		
2.789	657209	632240	0.962	0.38		
2.851	2084131	1917446	0.920	1.20		
3.030	26436	29009	1.097	0.01		
3.056	320575	297217	0.927	0.18		
3.278	50946	36697	0.720	0.02		
3.318	2843186	2604947	0.916	1.64	5 Aroclor 1016	BA
3.345	1662911	1538320	0.925	0.96		
3.435	468814	430601	0.918	0.27		
3.513	2890424	2043297	0.707	1.67	5 Aroclor 1016	BA
3.609	62043	51821	0.835	0.03		
3.645	34136	30033	0.880	0.01		
3.697	81037	81549	1.006	0.04		
3.732	758995	759602	1.001	0.43		
3.756	489036	474710	0.971	0.28		
3.827	8333033	5039841	0.605	4.83	5 Aroclor 1016	BA
3.929	3523970	2978332	0.845	2.04	5 Aroclor 1016	BA
3.994	2424782	2289525	0.944	1.40	5 Aroclor 1016	BA
4.059	690218	639344	0.926	0.40		
4.137	268754	245577	0.914	0.15		
4.215	2047181	1927649	0.942	1.18		
4.262	1851518	1768522	0.955	1.07		
4.293	812332	825594	1.016	0.47		
4.310	980066	916238	0.935	0.56		
4.372	57766	44143	0.764	0.03		
4.418	2565892	2366938	0.922	1.48		
4.453	1929565	1448450	0.751	1.11		
4.546	3331677	3063380	0.919	1.93		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	763681	725726	0.950	0.44	
4.681	43434	35484	0.817	0.02	
4.728	114565	101125	0.883	0.06	
4.768	108255	99422	0.918	0.06	
4.814	619087	601641	0.972	0.35	
4.849	956824	929295	0.971	0.55	
4.895	3006449	2129145	0.708	1.74	
4.958	194324	157336	0.810	0.11	
5.038	174178	158253	0.909	0.10	
5.101	636910	553004	0.868	0.36	
5.163	2438926	2194509	0.900	1.41	
5.212	111384	92369	0.829	0.06	
5.308	27827	26460	0.951	0.01	
5.364	165309	157324	0.952	0.09	
5.408	704023	646364	0.918	0.40	
5.443	29112	28546	0.981	0.01	
5.479	1000519	928454	0.928	0.57	
5.510	1729074	1534039	0.887	1.00	
5.576	19550	16048	0.821	0.01	
5.604	34848	27975	0.803	0.02	
5.675	2490301	2308914	0.927	1.44	
5.711	1866212	995046	0.533	1.08	
5.787	6185492	5328228	0.861	3.58	
5.883	417579	397243	0.951	0.24	
5.930	202848	167345	0.825	0.11	
5.995	1064293	993125	0.933	0.61	
6.031	2357002	2281362	0.968	1.36	
6.056	6802716	5913555	0.869	3.94	
6.169	4398269	2916854	0.663	2.54	
6.256	1013848	595870	0.588	0.58	
6.299	8372147	6873251	0.821	4.85	8 Aroclor 1260
6.334	1228651	1117268	0.909	0.71	
6.374	310797	237866	0.765	0.18	
6.433	875594	776637	0.887	0.50	
6.486	186696	226162	1.211	0.10	
6.510	4055406	3619288	0.892	2.35	
6.536	804268	870936	1.083	0.46	
6.562	2530676	2228116	0.880	1.46	
6.606	275537	224114	0.813	0.15	
6.660	821602	744134	0.906	0.47	
6.718	4363168	3923038	0.899	2.52	
6.759	2436592	2160749	0.887	1.41	
6.804	2046255	1732909	0.847	1.18	
6.840	379385	321813	0.848	0.21	
6.866	193686	163537	0.844	0.11	
6.913	279672	253923	0.908	0.16	
6.943	893745	829547	0.928	0.51	
7.006	9552528	8232909	0.862	5.53	8 Aroclor 1260
7.036	634159	627991	0.990	0.36	
7.075	290251	237040	0.817	0.16	
7.122	440812	358276	0.813	0.25	
7.222	14569	17676	1.213	0.00	
7.252	4561710	4033993	0.884	2.64	8 Aroclor 1260
7.283	1317583	1086644	0.825	0.76	
7.390	2273253	1907971	0.839	1.31	
7.444	2747730	2350698	0.856	1.59	8 Aroclor 1260
7.554	205956	170355	0.827	0.11	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D Page 3
Report Date: 22-Mar-2018 13:35

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.692	1143671	1008027	0.881	0.66	
7.728	196307	160265	0.816	0.11	
7.778	26925	26862	0.998	0.01	
7.801	147398	123041	0.835	0.08	
7.901	2485127	2093291	0.842	1.44	8 Aroclor 1260
7.966	182440	138184	0.757	0.10	
8.071	16818	11151	0.663	0.00	
8.276	710759	618559	0.870	0.41	
8.379	47324	33393	0.706	0.02	
8.572	15073641	13074115	0.867	8.73	$ 12 Decachlorobiphenyl
8.944	40002	27870	0.697	0.02	
9.088	20422	15432	0.756	0.01	
9.469	45604	27683	0.607	0.02	
9.964	44216	30829	0.697	0.02	
	172514109	148782492		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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			
2.485	2.484	0.001	18299526	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	2843185	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2890423	1.00000	0.93	0.00- 20.00	101.66	BA
3.826	3.826	0.000	8333033	1.00000	0.94	0.00- 20.00	293.09	BA
3.928	3.929	-0.001	3523970	1.00000	0.93	0.00- 20.00	123.94	BA
3.994	3.994	0.000	2424781	1.00000	0.93	0.00- 20.00	85.28	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	8372147	1.00000	0.94	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	9552528	1.00000	0.95	0.00- 20.00	114.10	BA
7.251	7.251	0.000	4561709	1.00000	0.95	0.00- 20.00	54.49	BA
7.443	7.443	0.000	2747730	1.00000	0.94	0.00- 20.00	32.82	BA
7.900	7.901	-0.001	2485127	1.00000	0.94	0.00- 20.00	29.68	BA
Average of Peak Amounts =					0.94400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	15073640	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\40GCSJ.i\030618.b\030618066.D

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

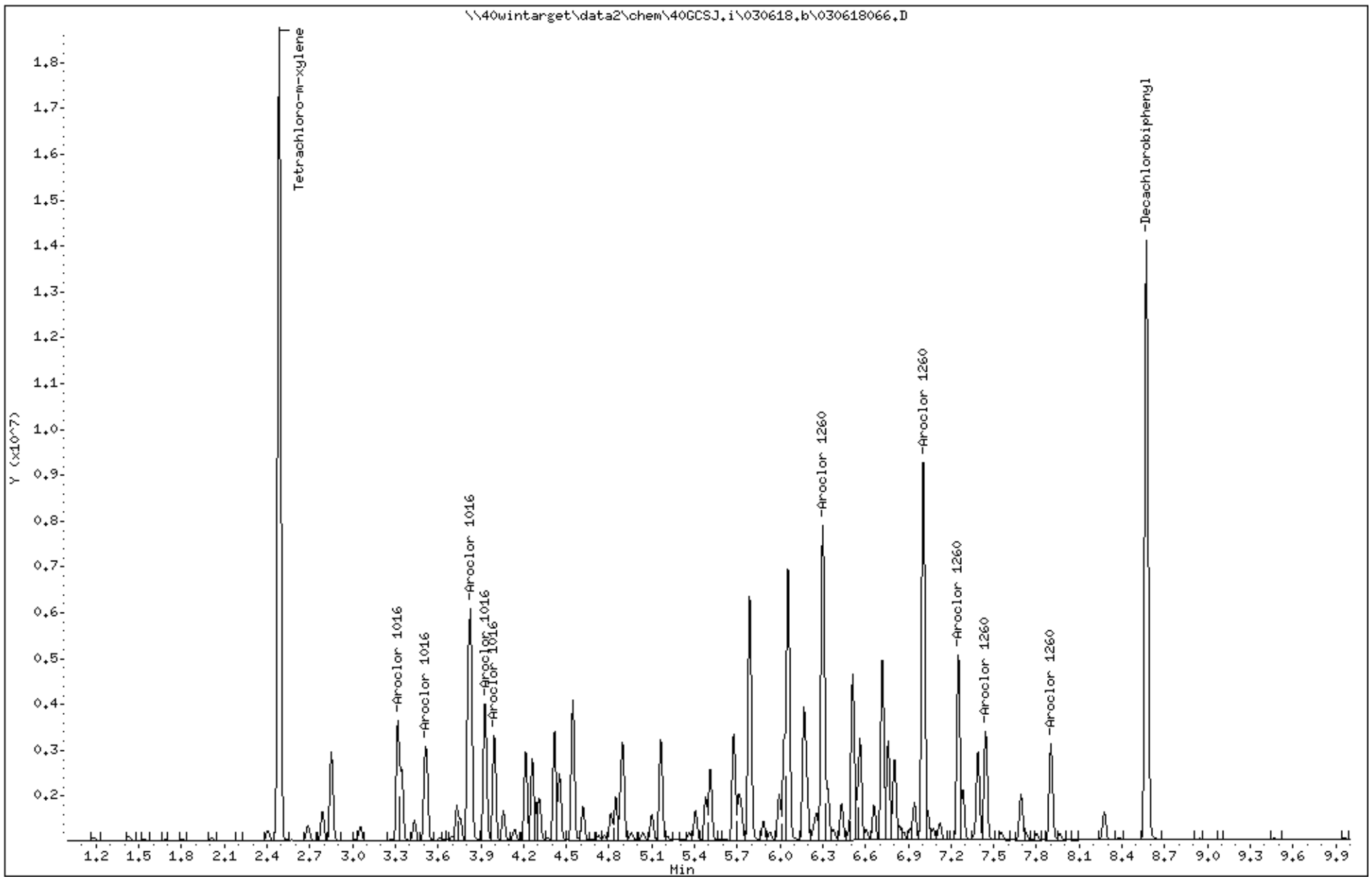
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

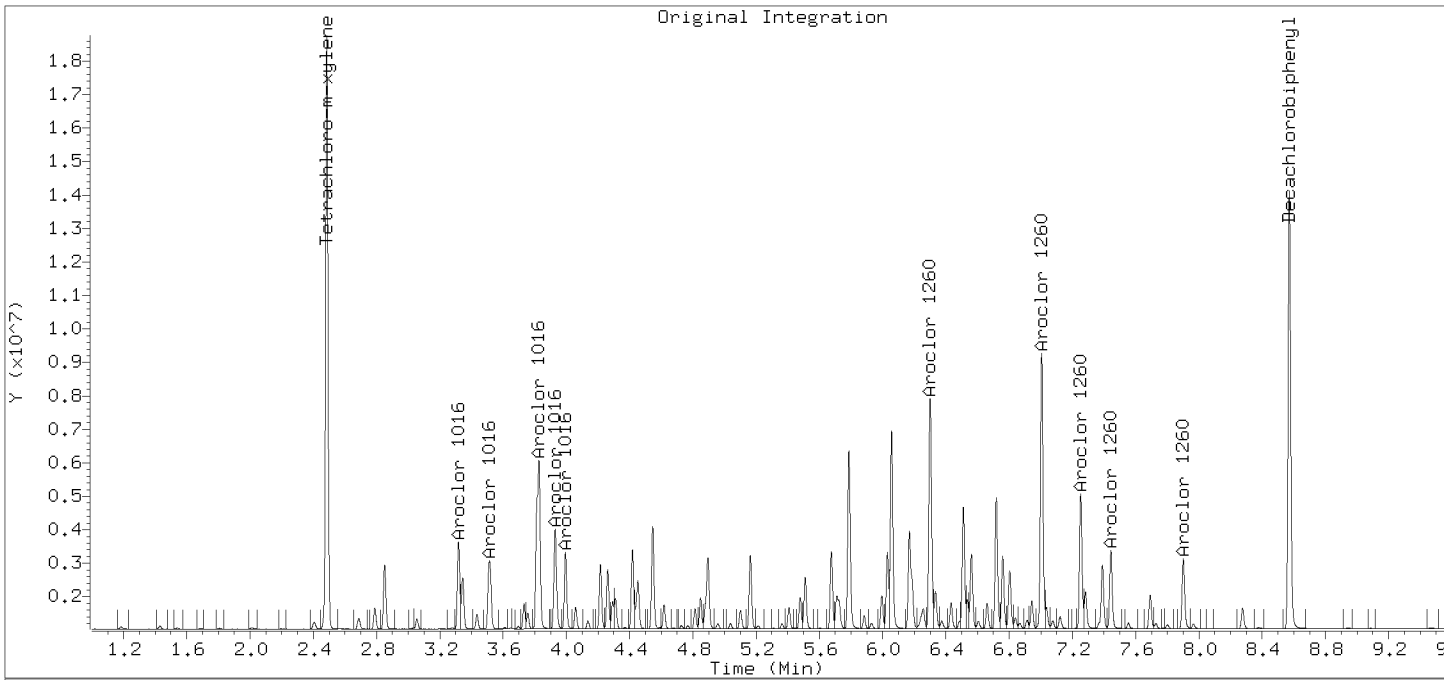
Operator: BLM

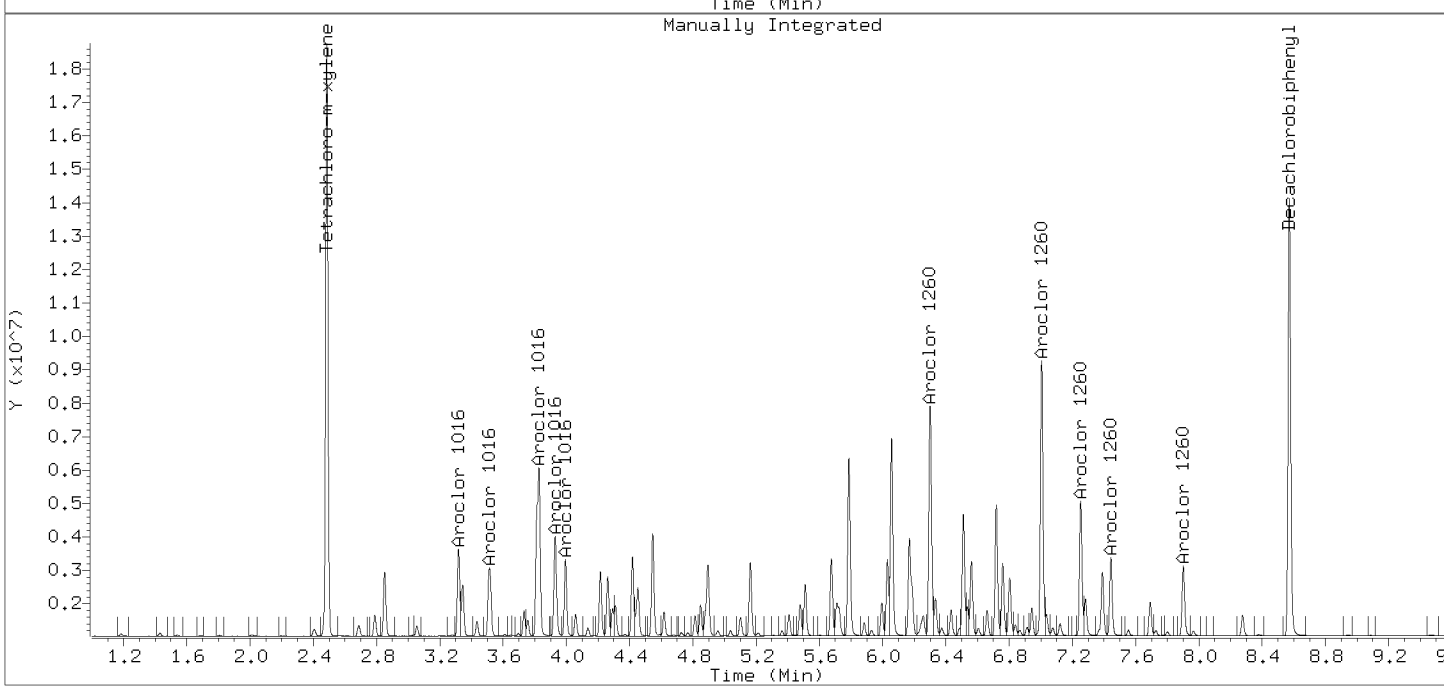
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618066.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Tetrachloro-m-xylene	18299526	18299526	
Decachlorobiphenyl	15073640	15073640	

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 10:38

Client ID: 1232-CAL3S

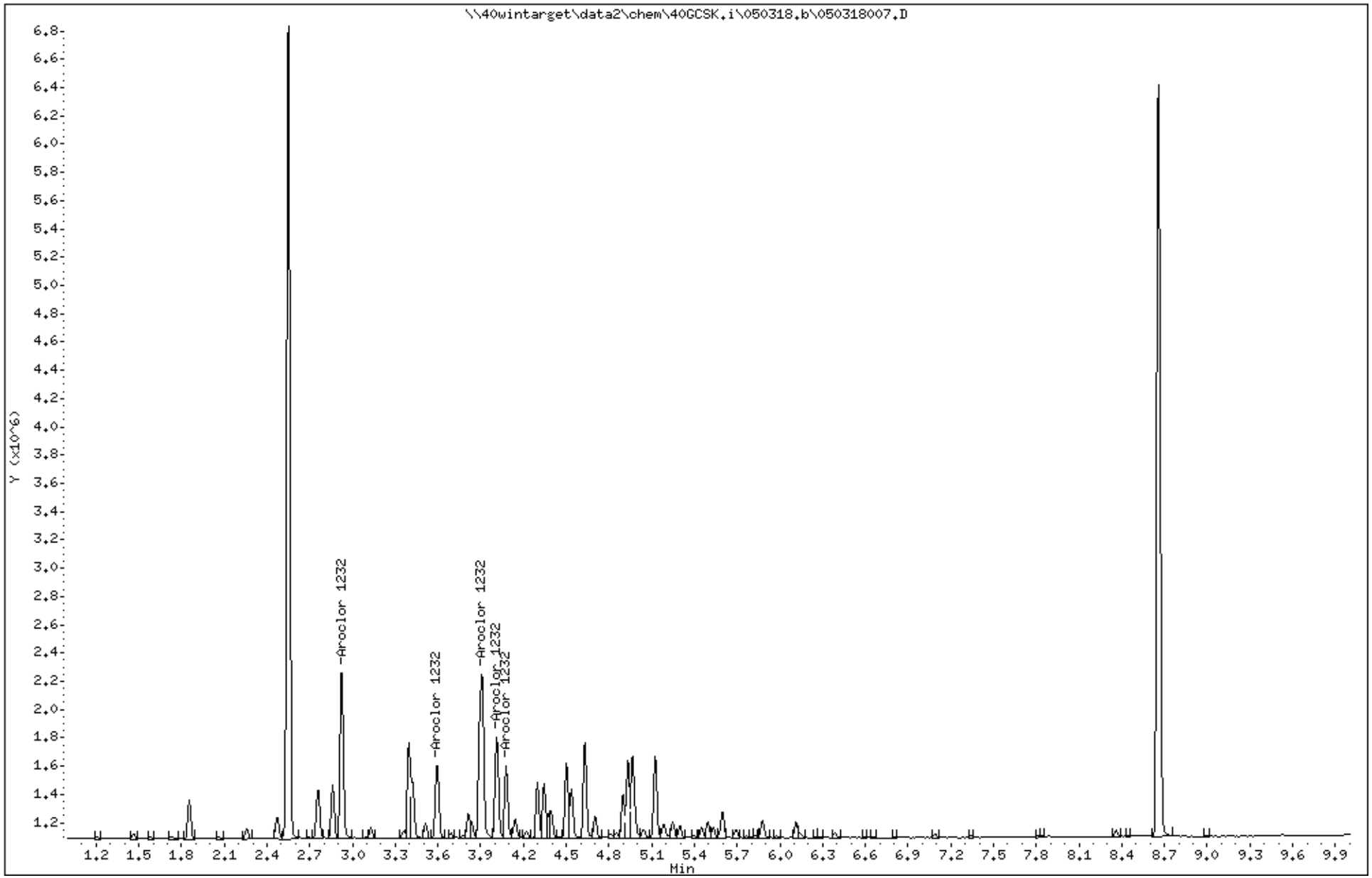
Instrument: 40GCSK.i

Sample Info: 1232-CAL3S, 185539:1

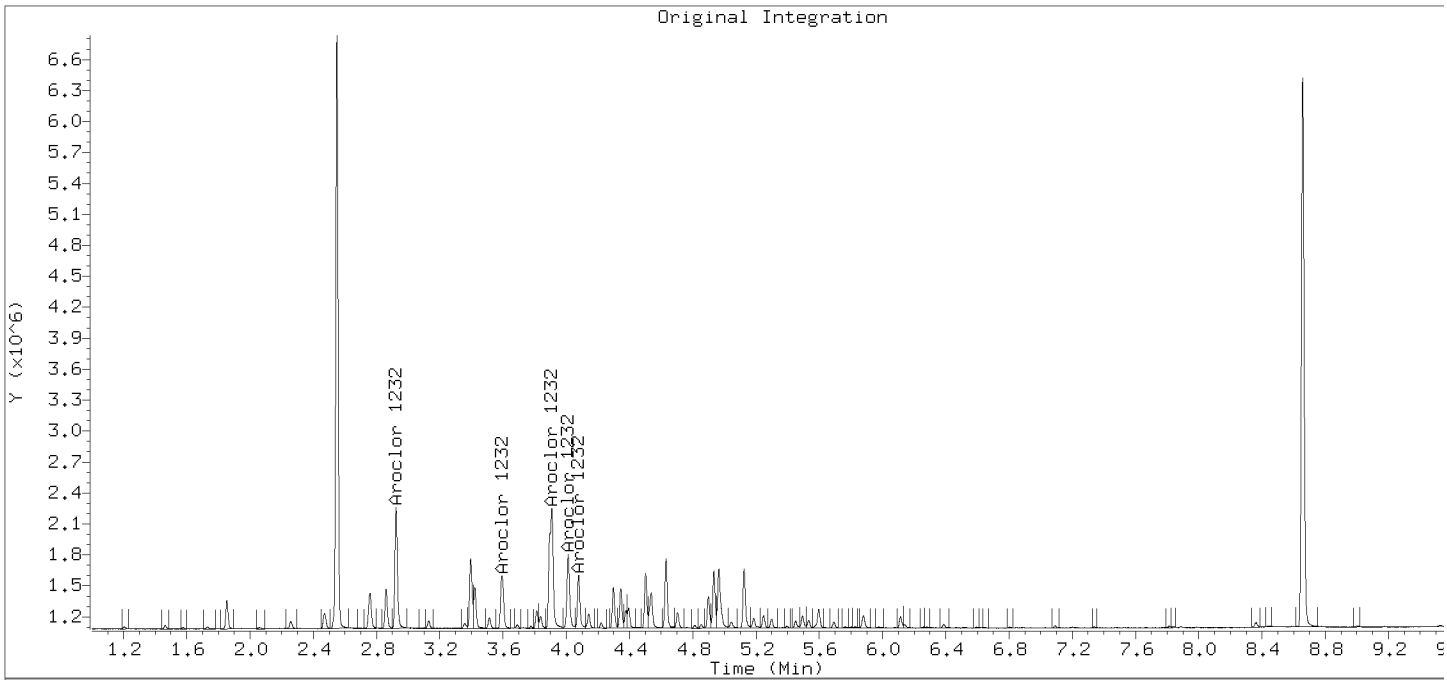
Operator: BLM

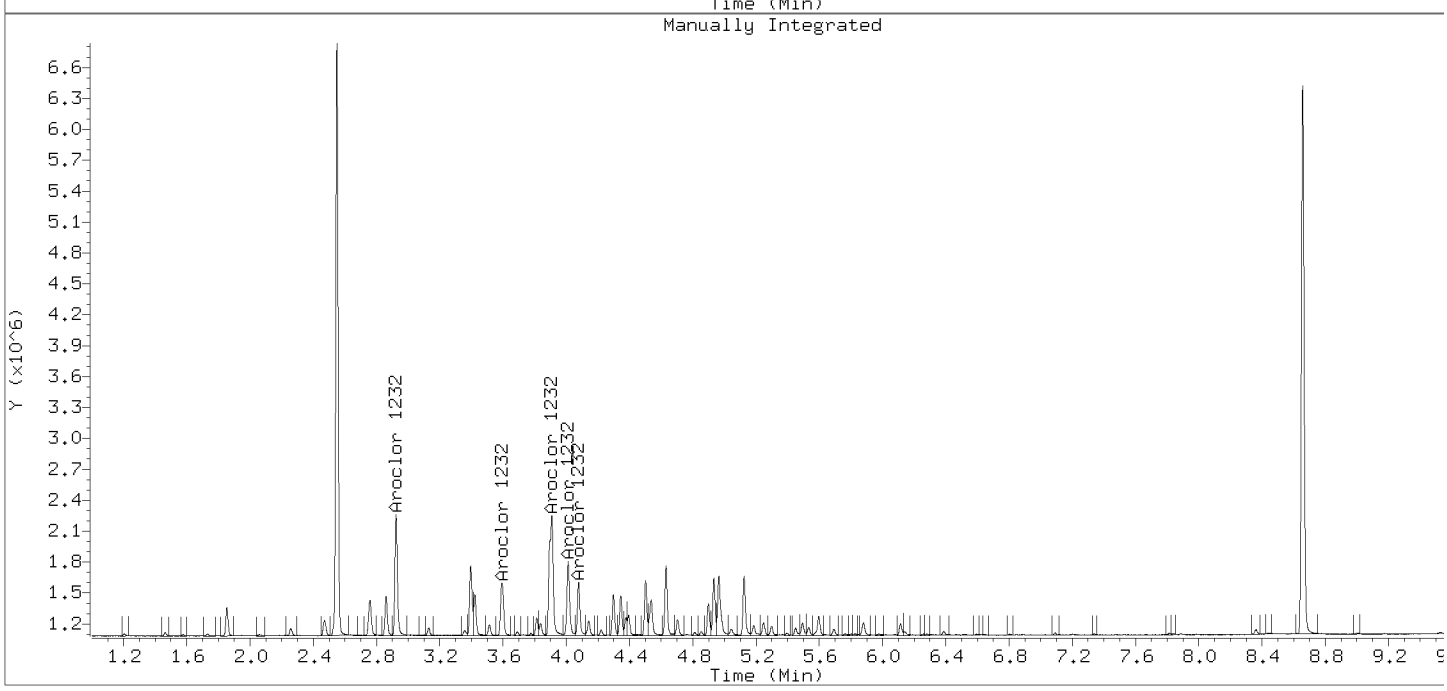
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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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

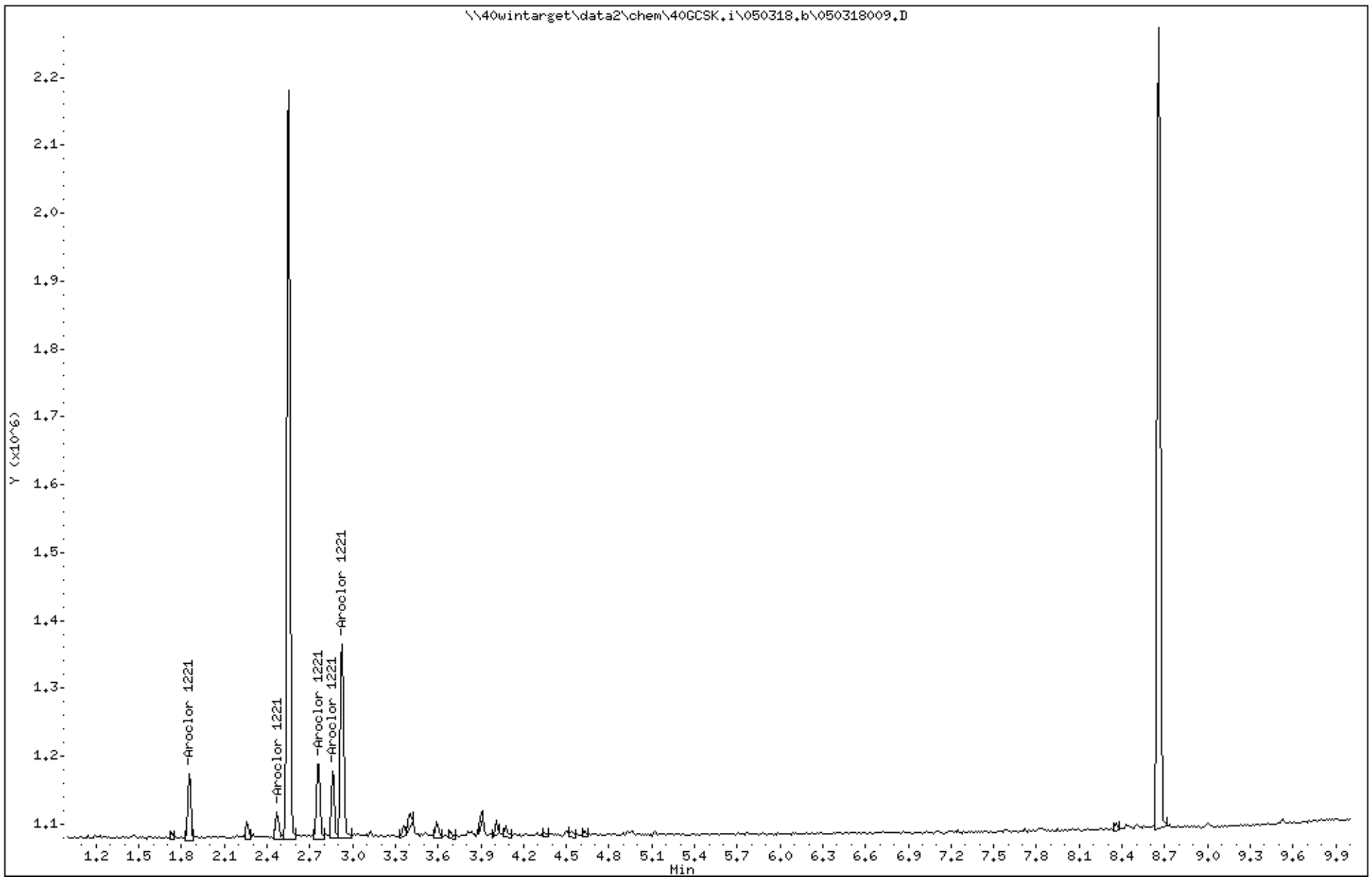
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

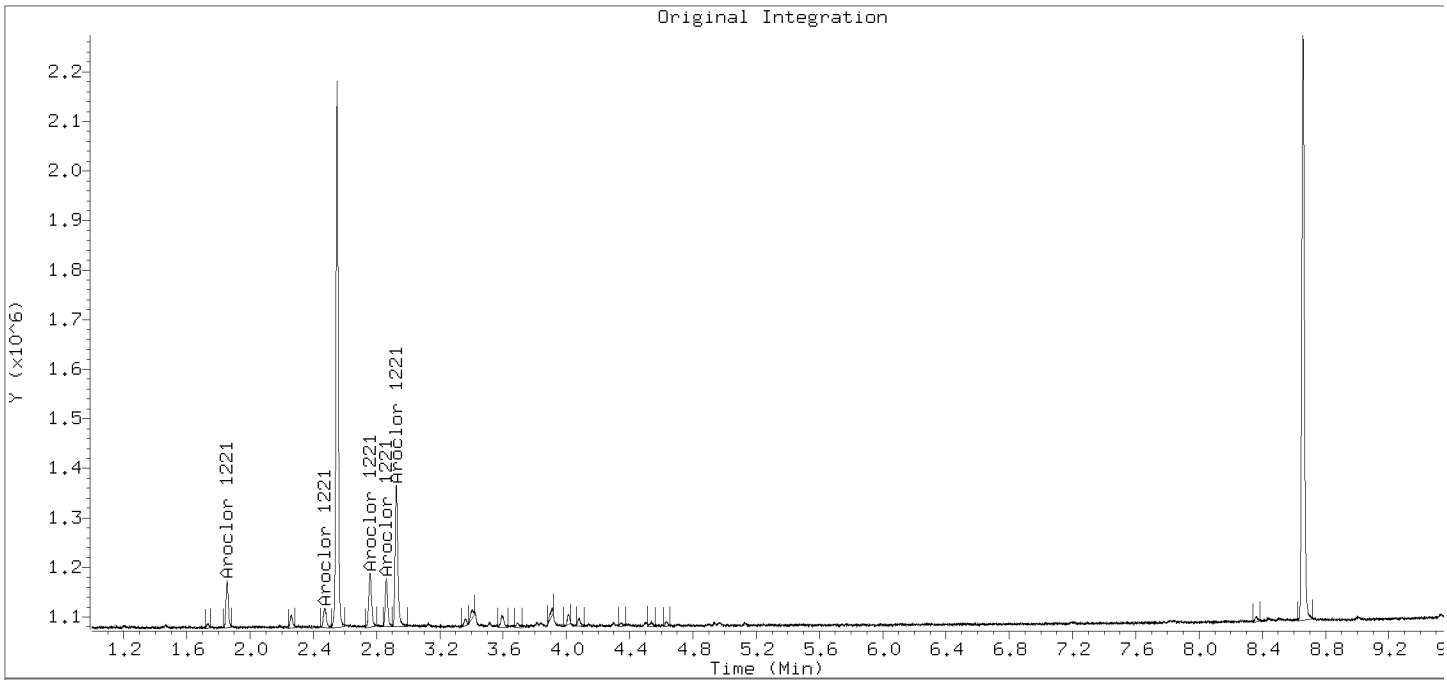
Instrument: 40GCSK.i

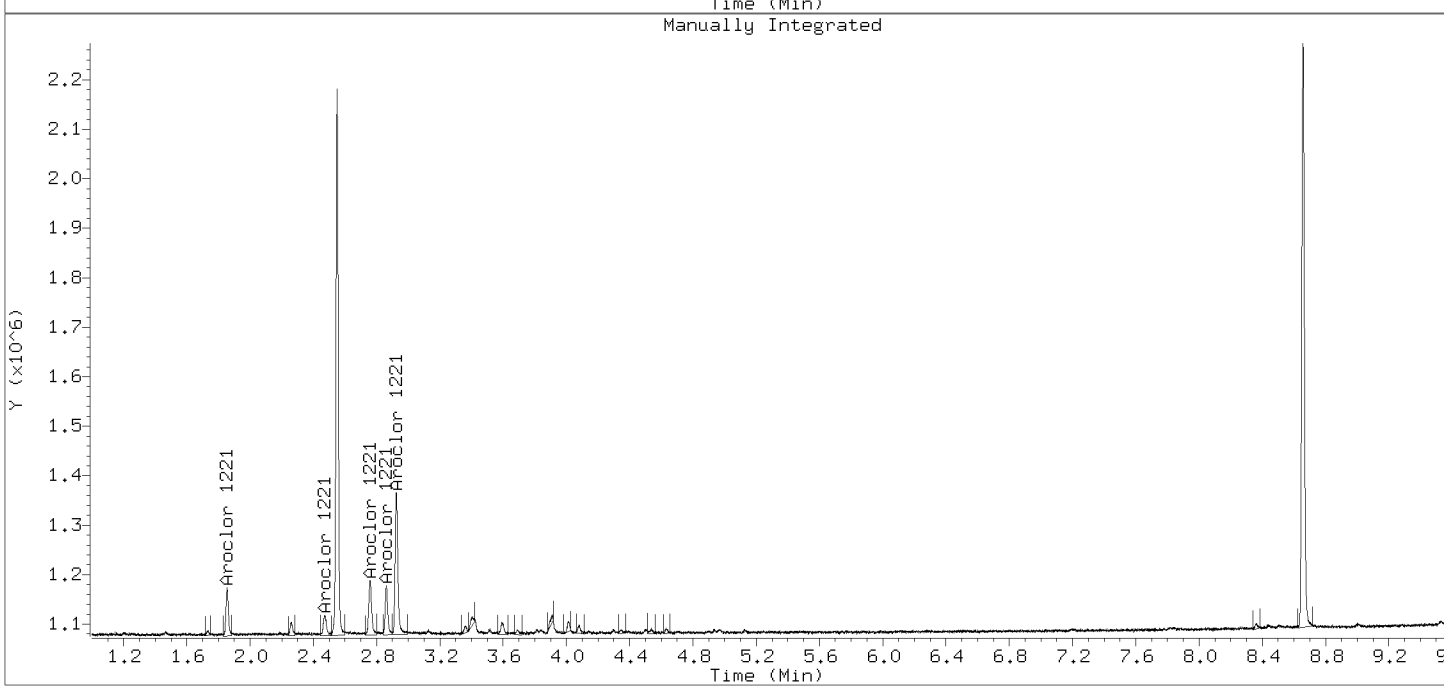
Operator: BLM

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.

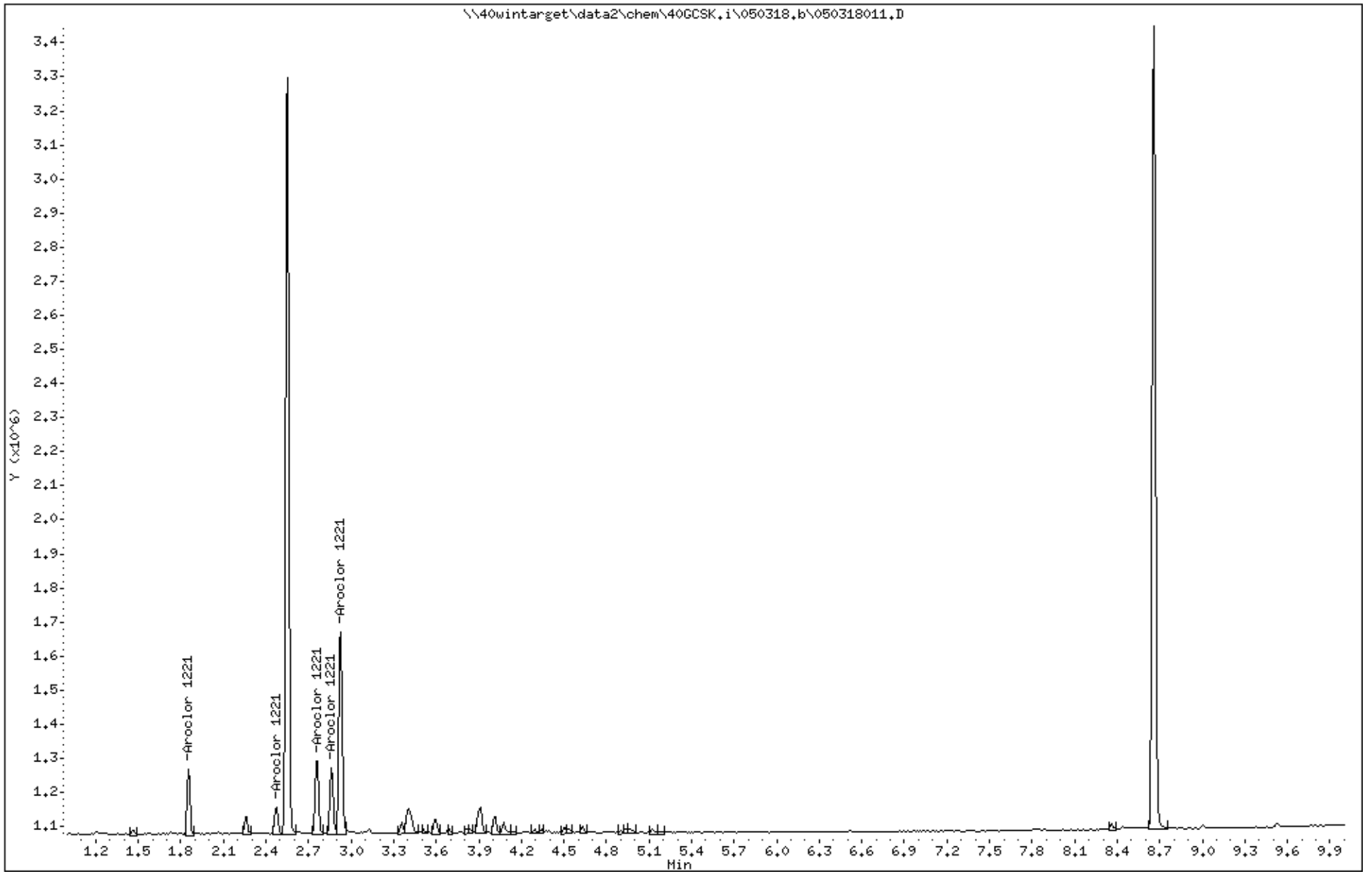
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Date : 03-MAY-2018 11:10
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

Instrument: 40GCSK.i

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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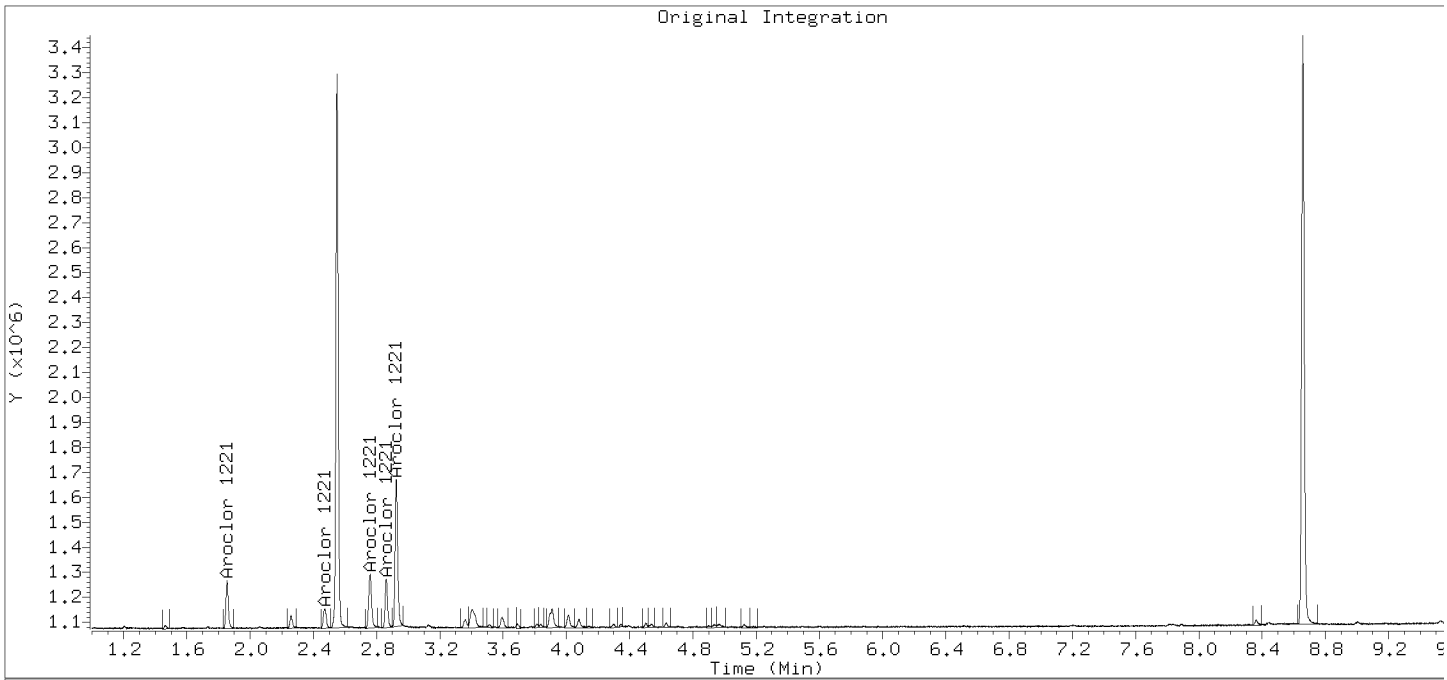
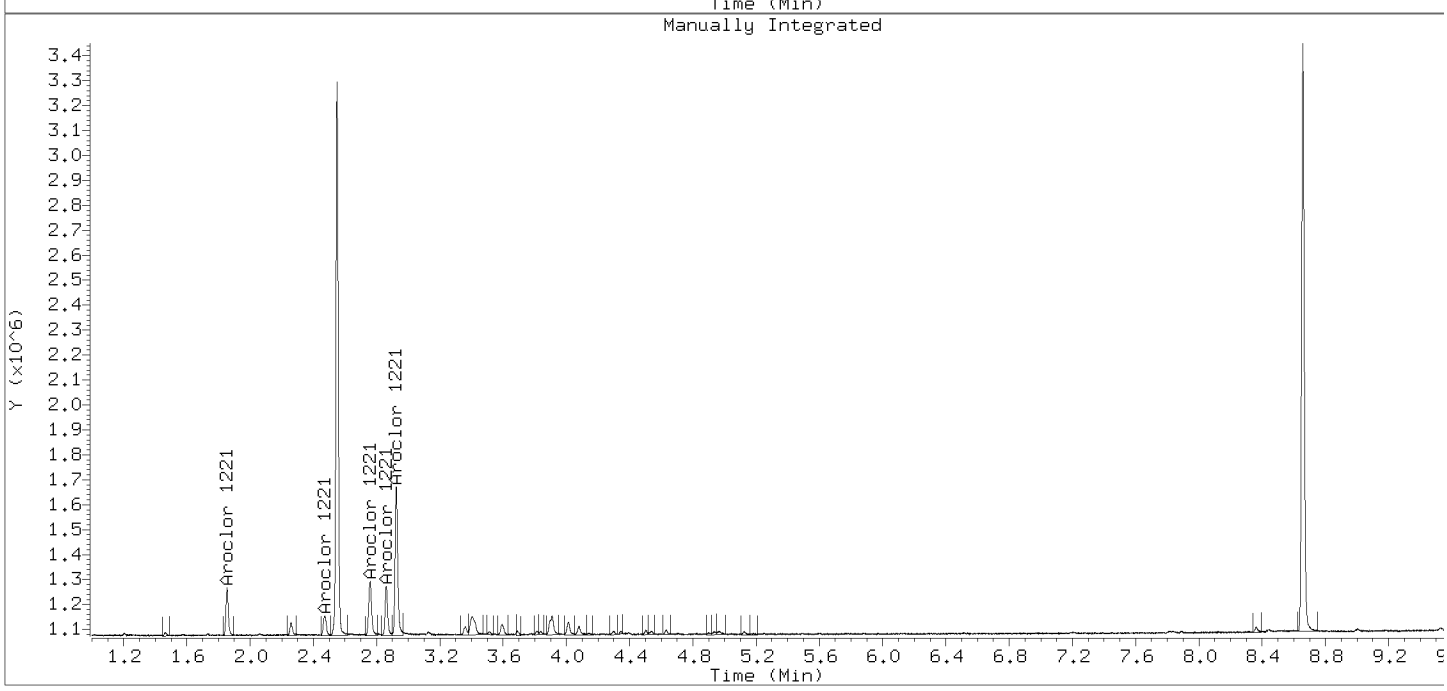
Injection Date: 03-MAY-2018 11:10 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL2F





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

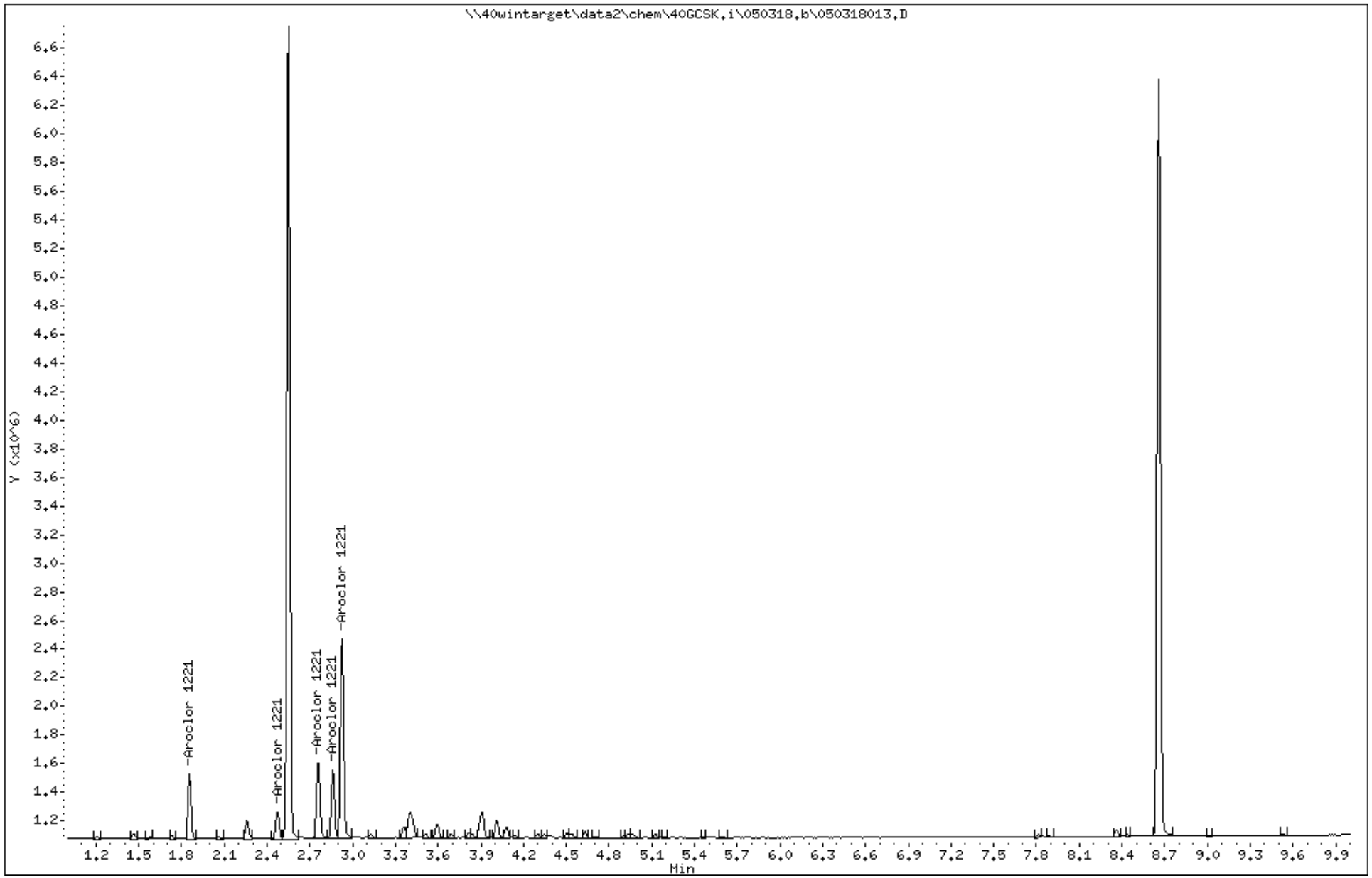
Instrument: 40GCSK.i

Sample Info: 1221-CAL3F, 185538:1

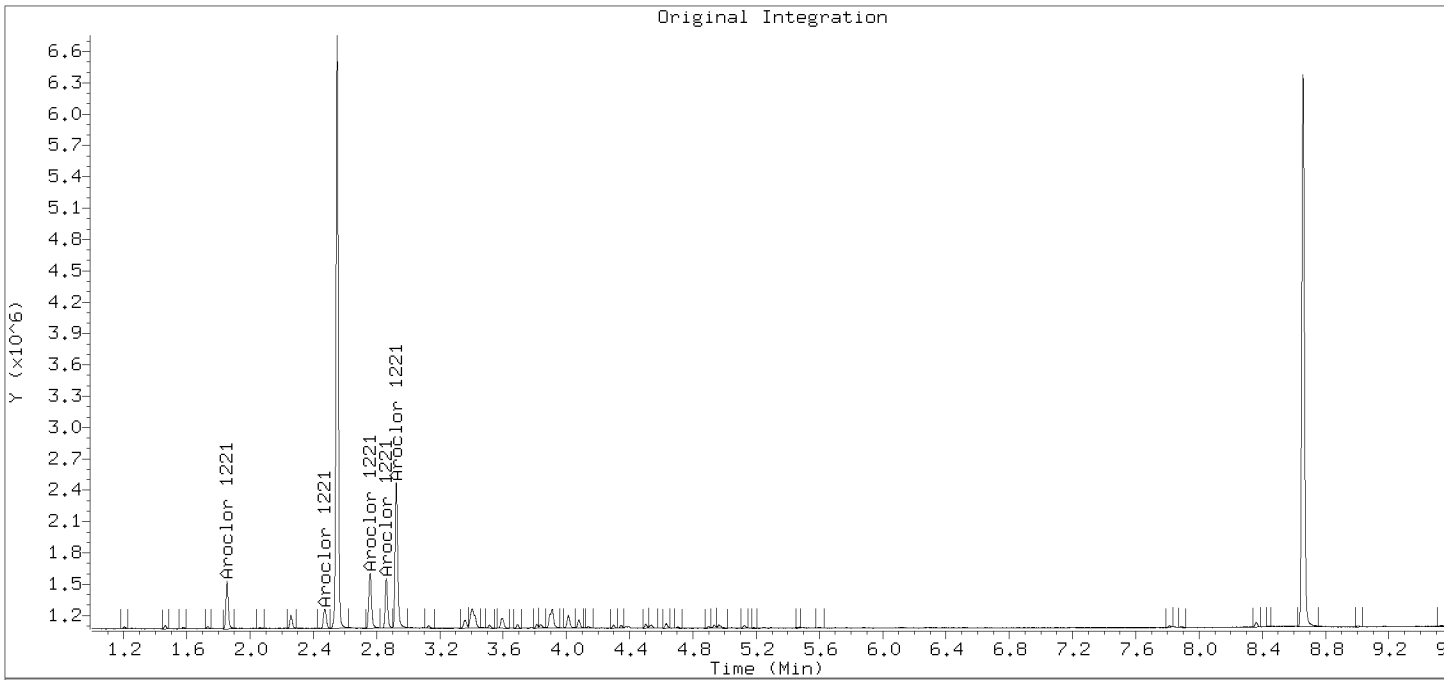
Operator: BLM

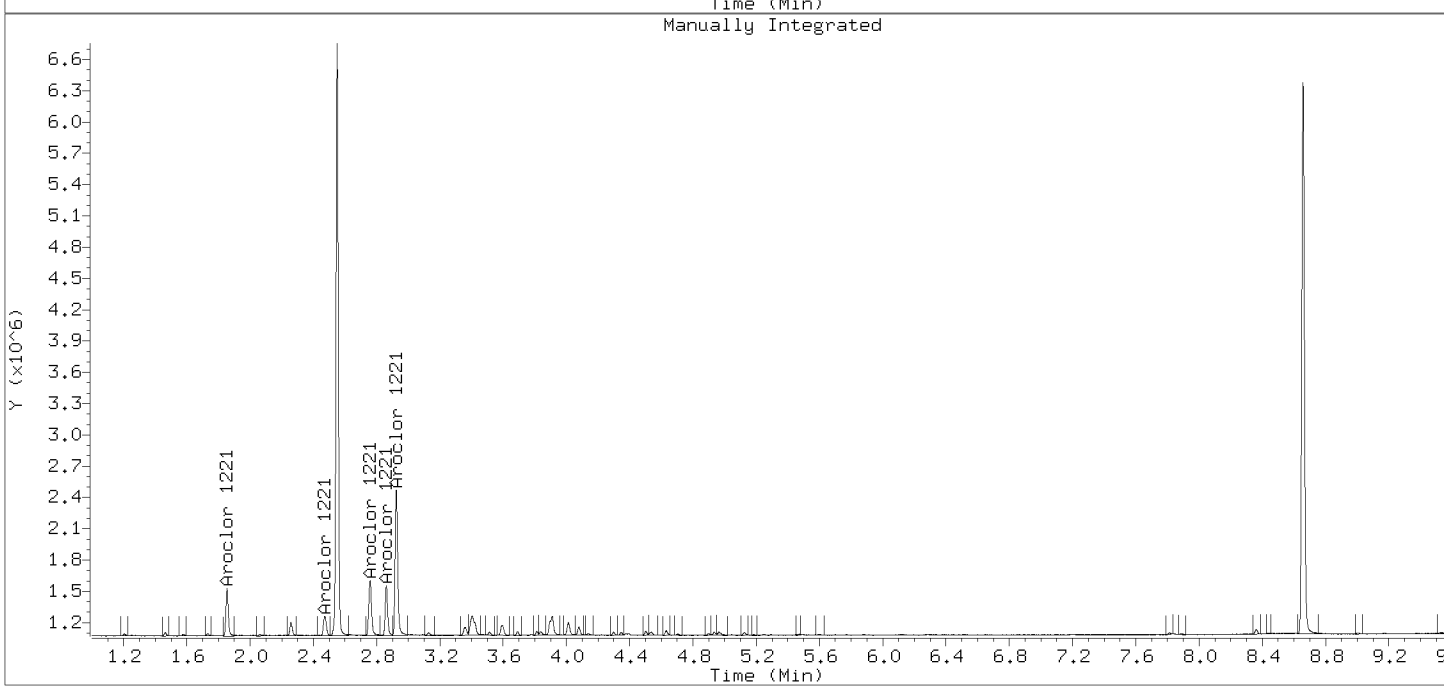
Column phase: ZB-1ms

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

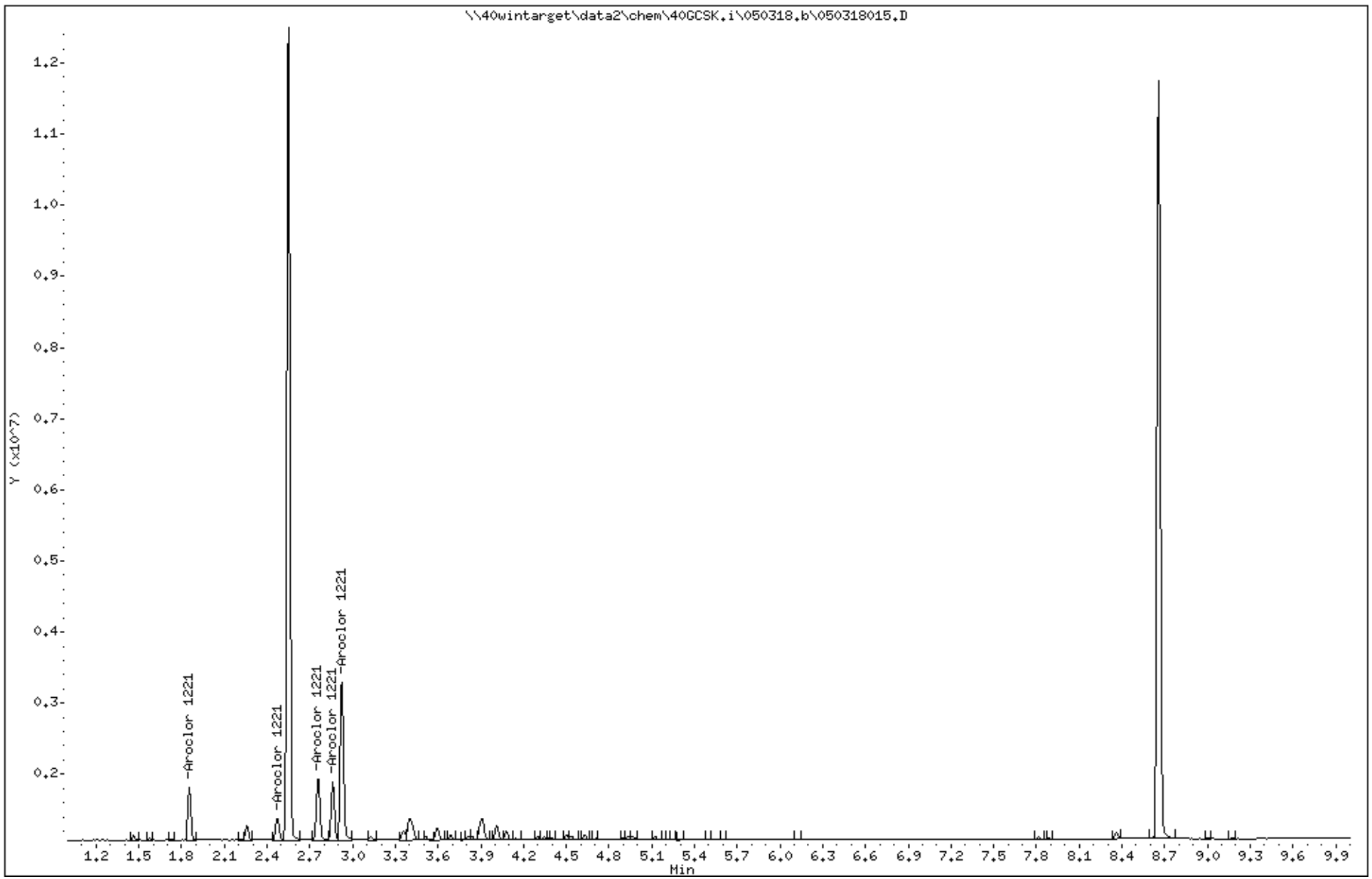
Instrument: 40GCSK.i

Sample Info: 1221-CAL4F, 188140:1

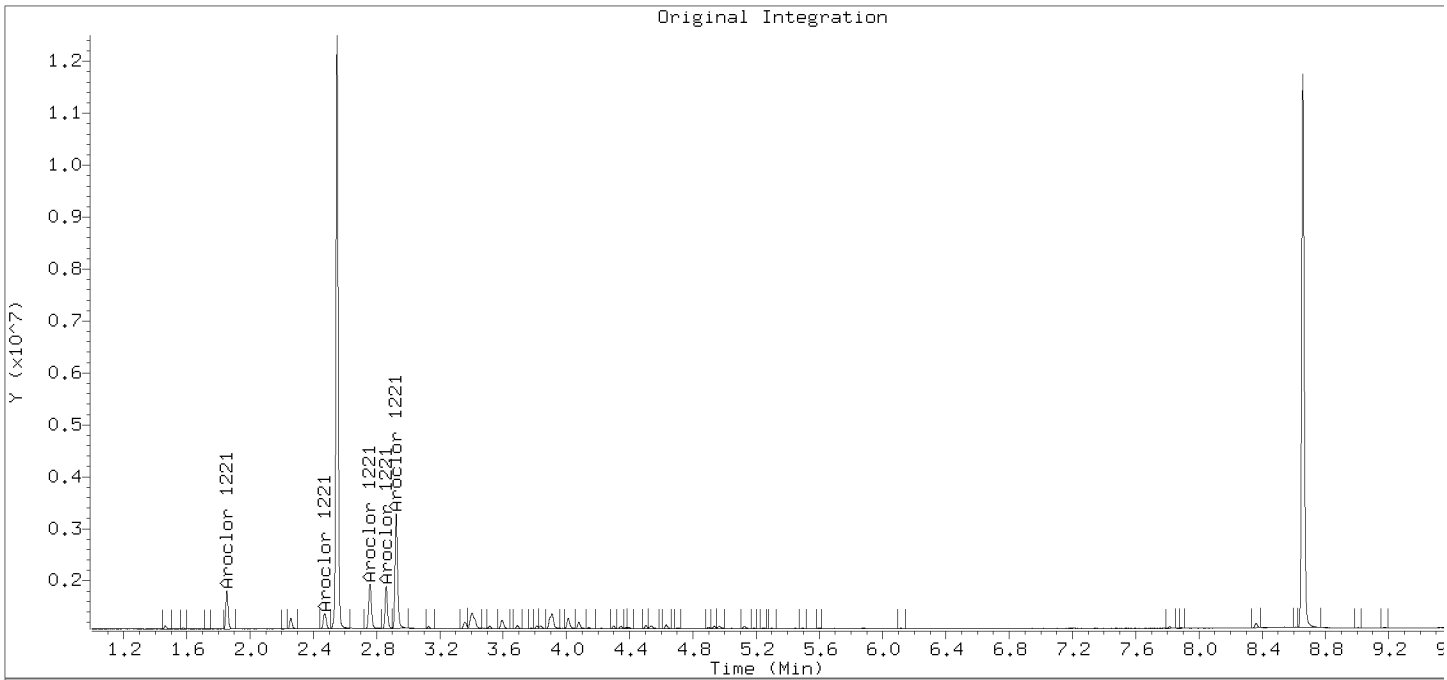
Operator: BLM

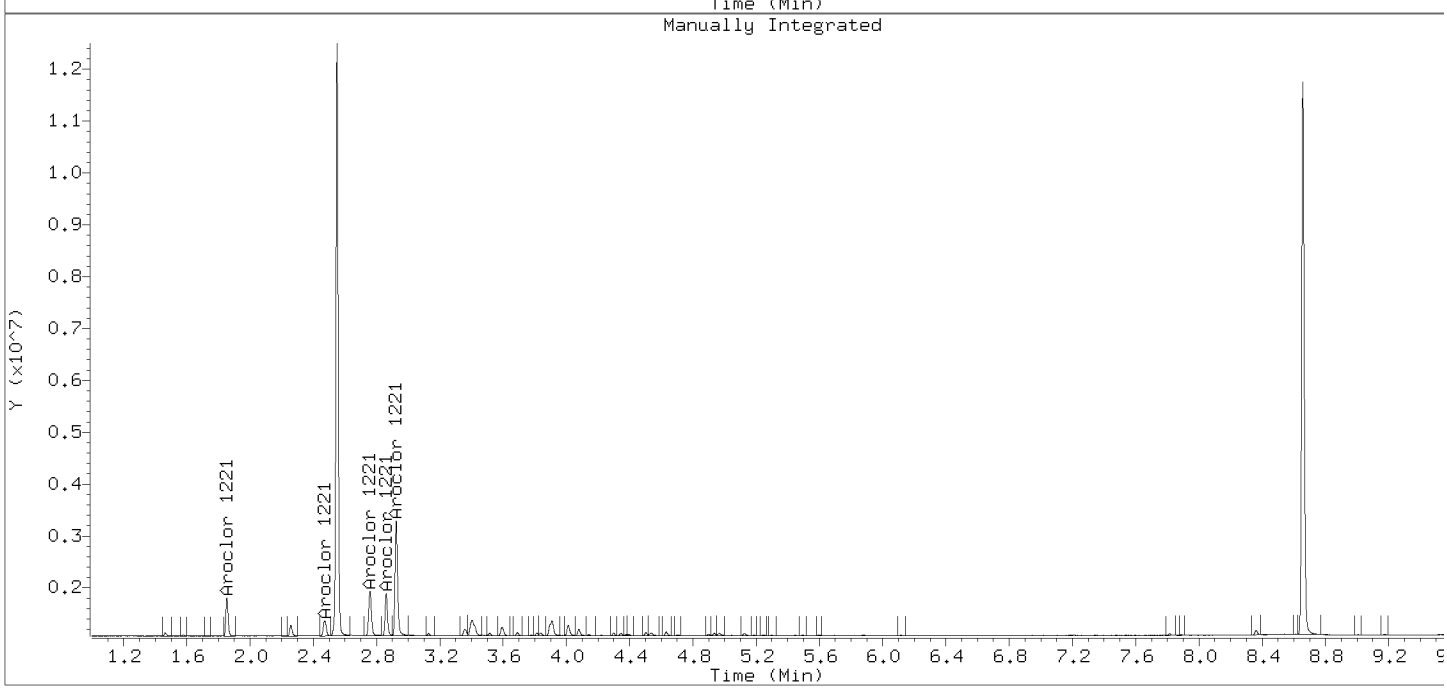
Column phase: ZB-1ms

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

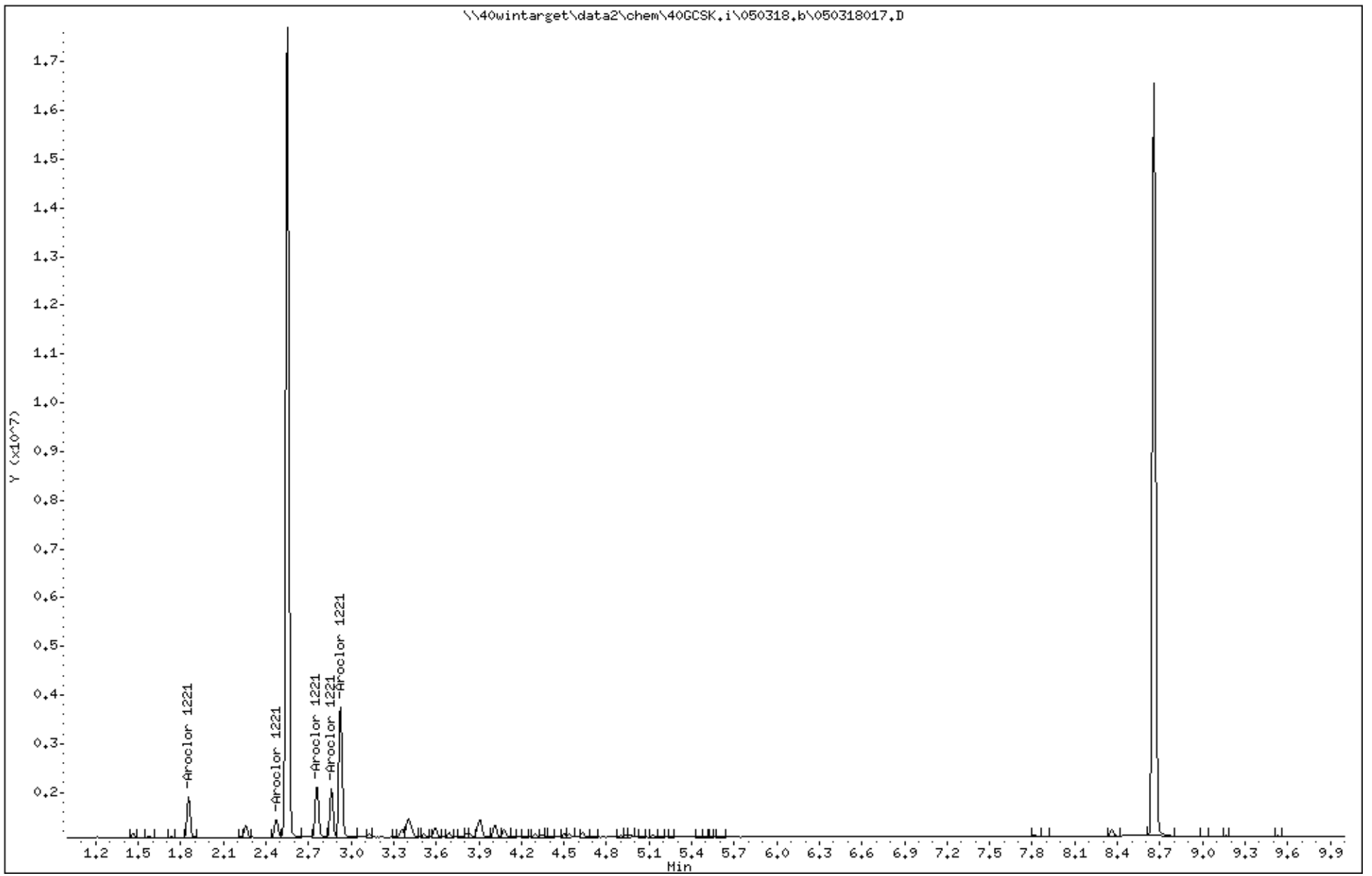
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

Operator: BLM

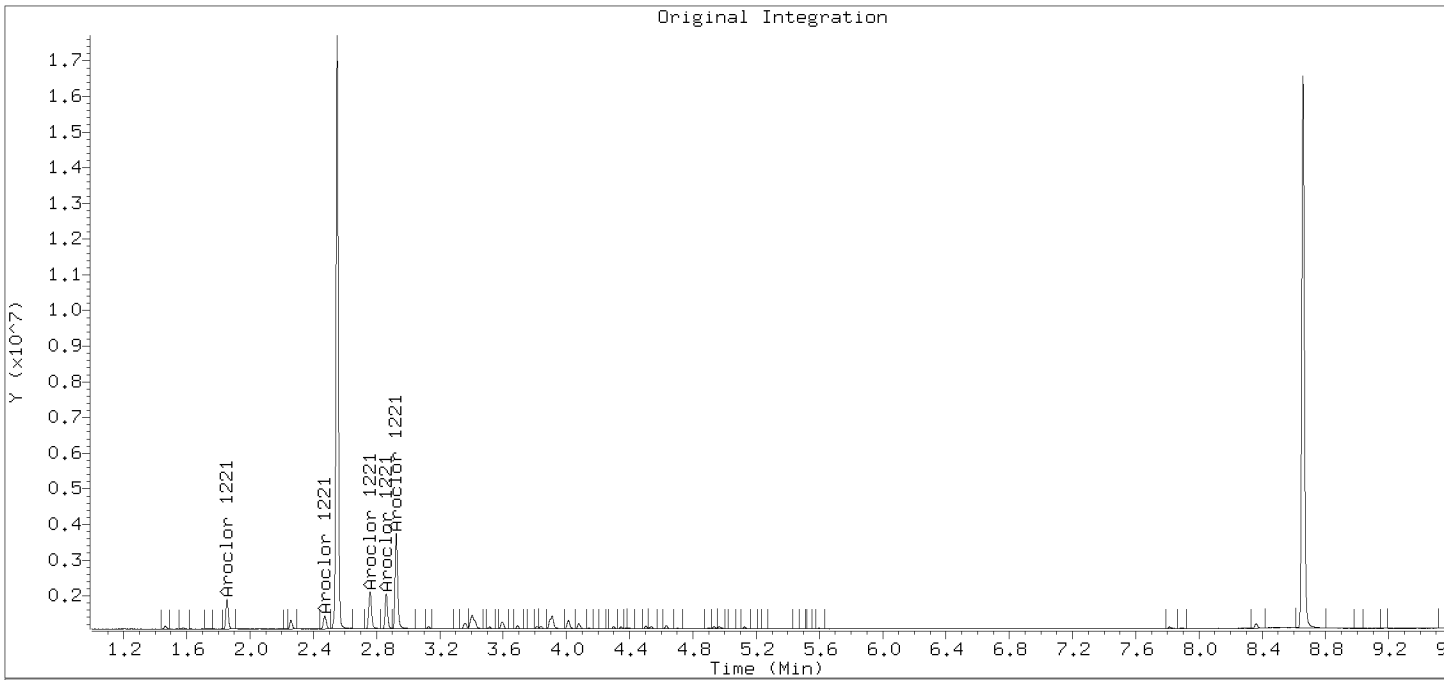
Column phase: ZB-1ms

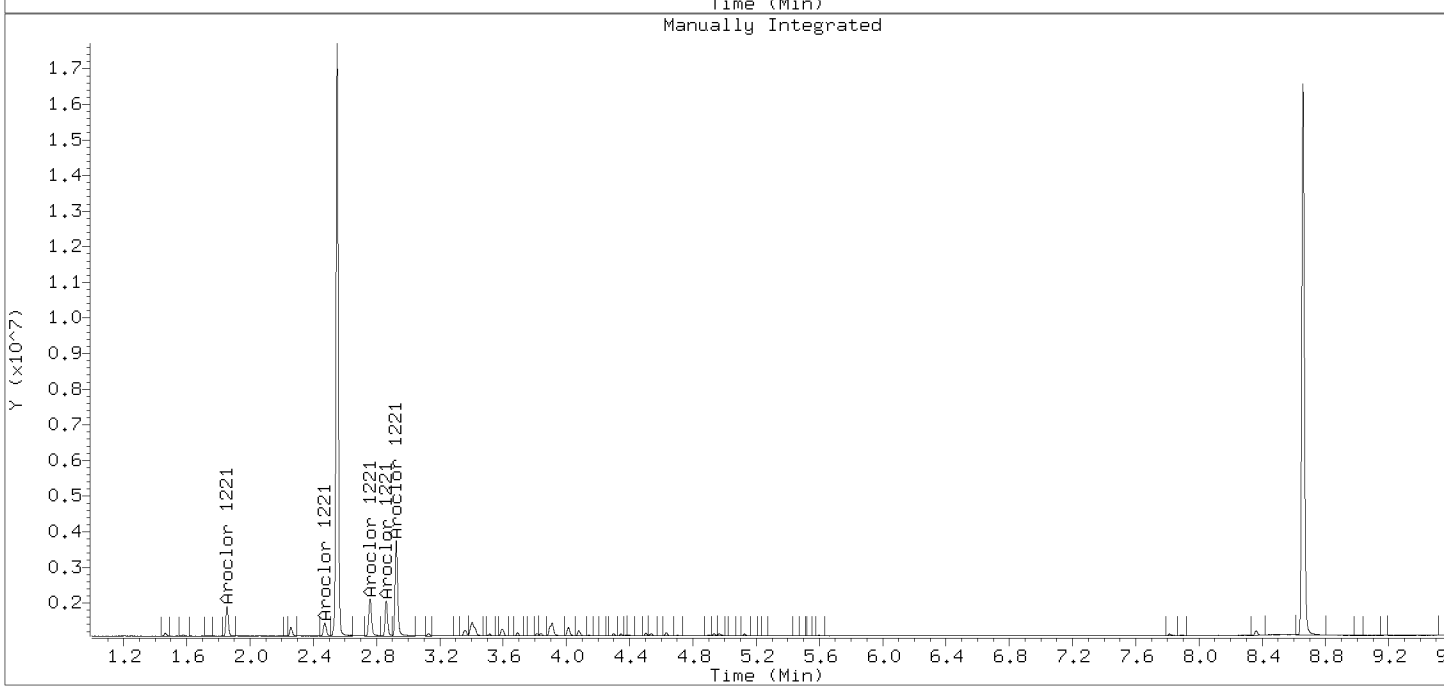
Column diameter: 0.18



40158013

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

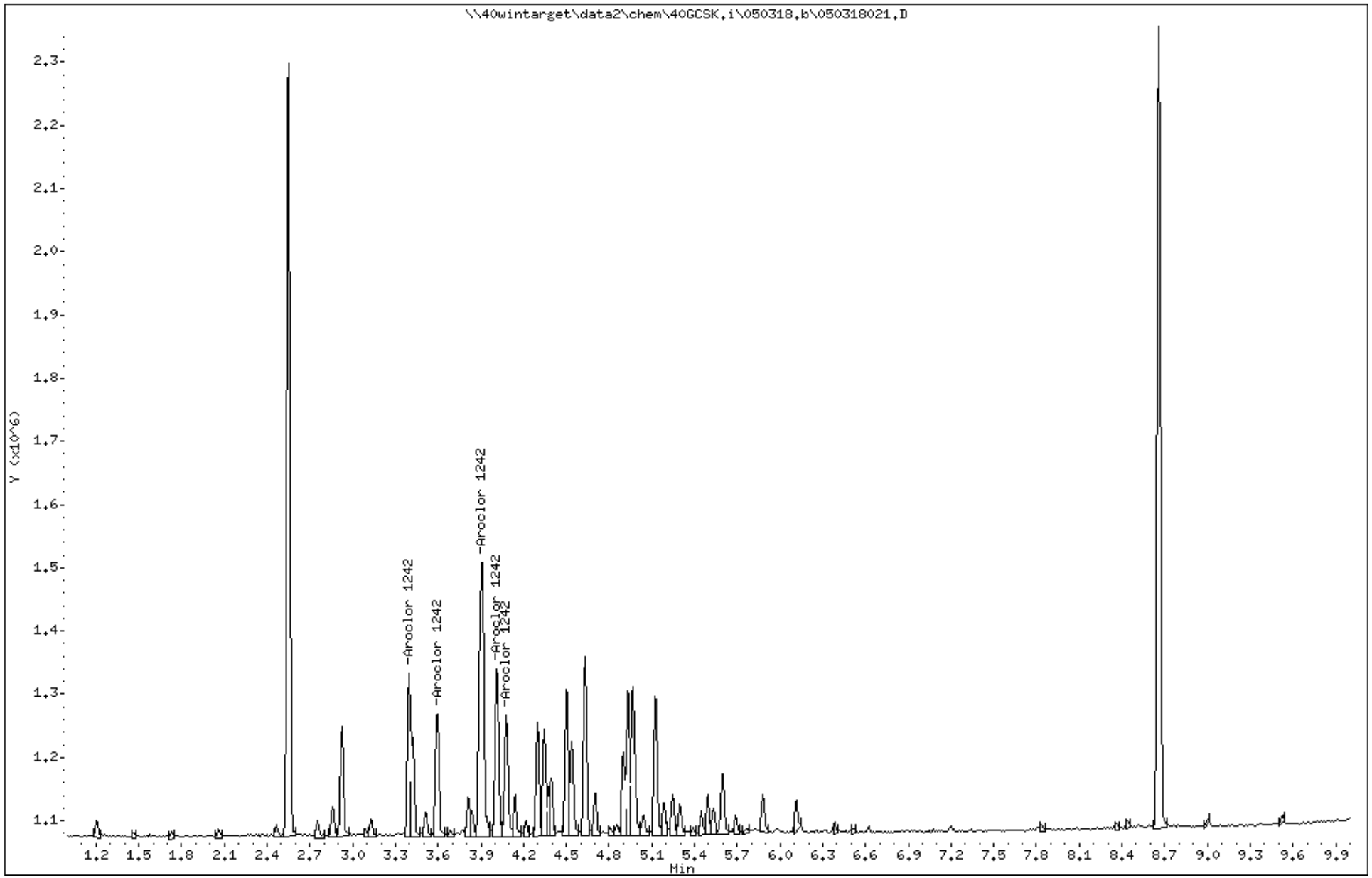
Instrument: 40GCSK.i

Sample Info: 1242-CAL1B, 188132:1

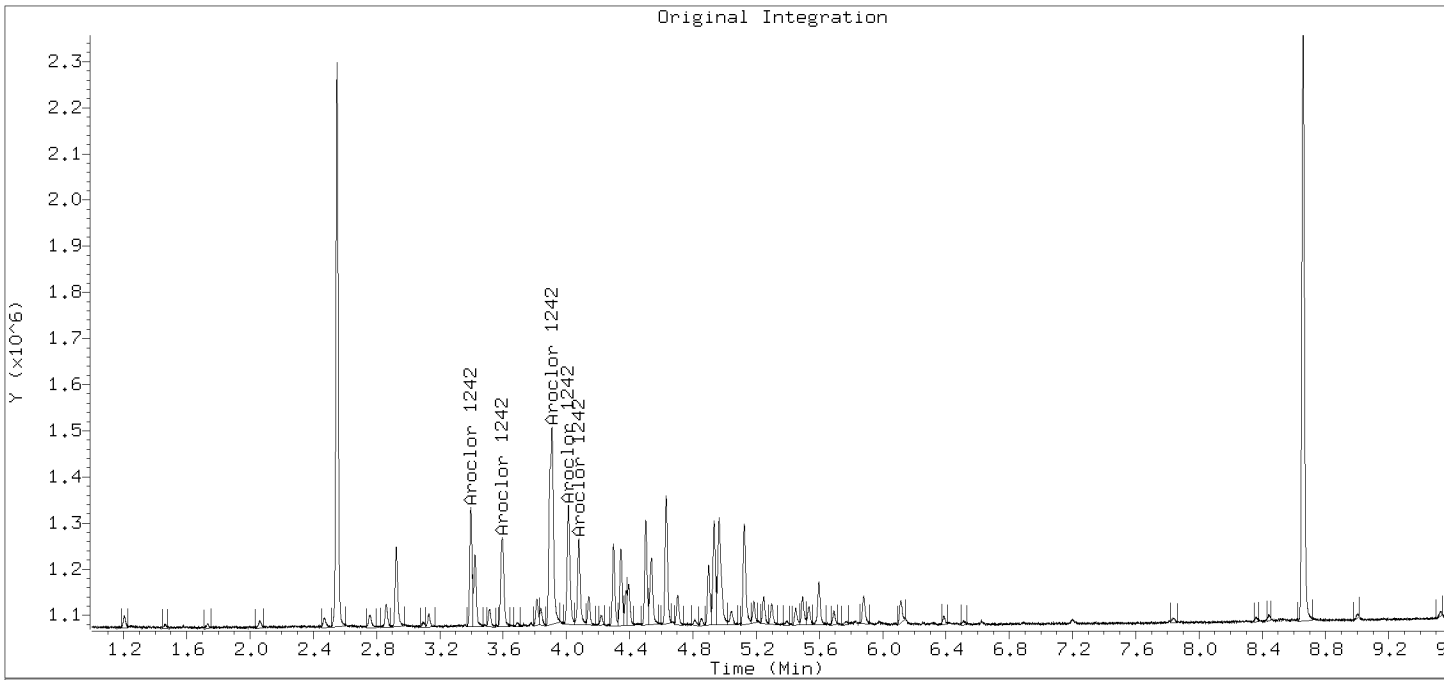
Operator: BLM

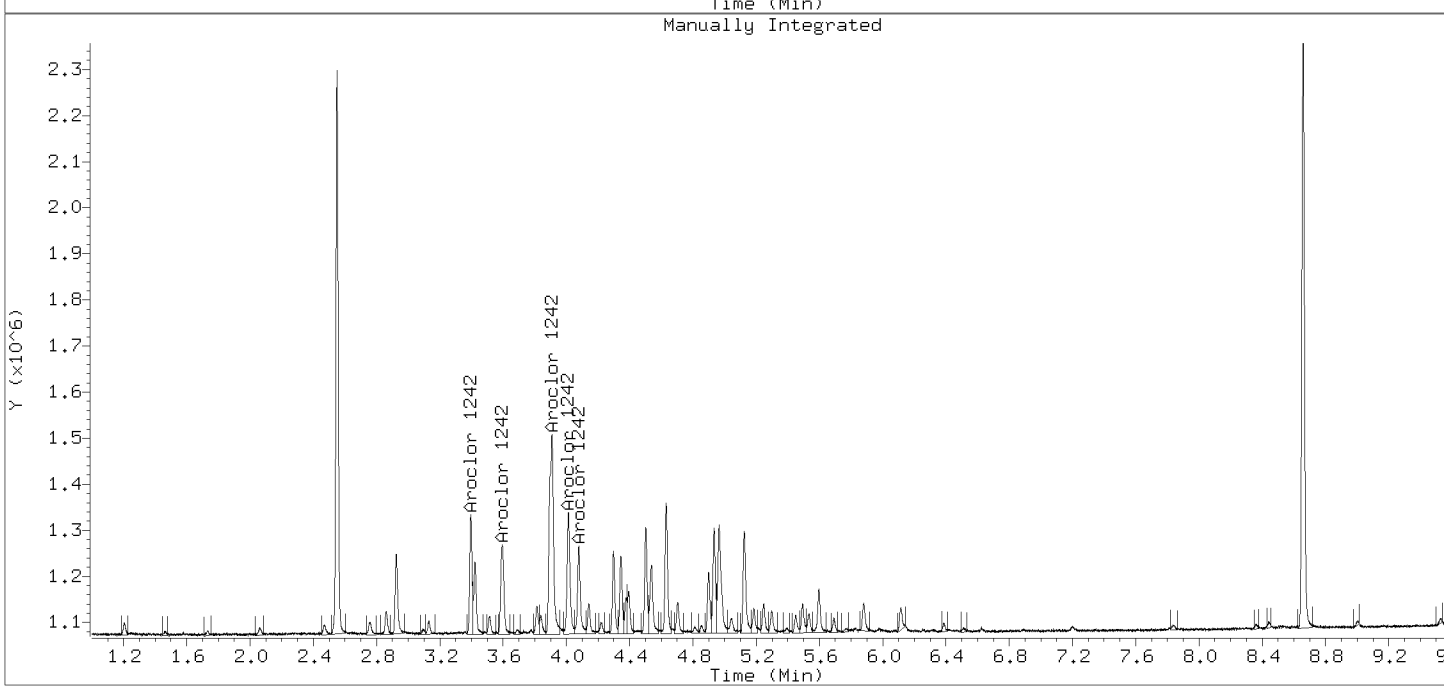
Column phase: ZB-1ms

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

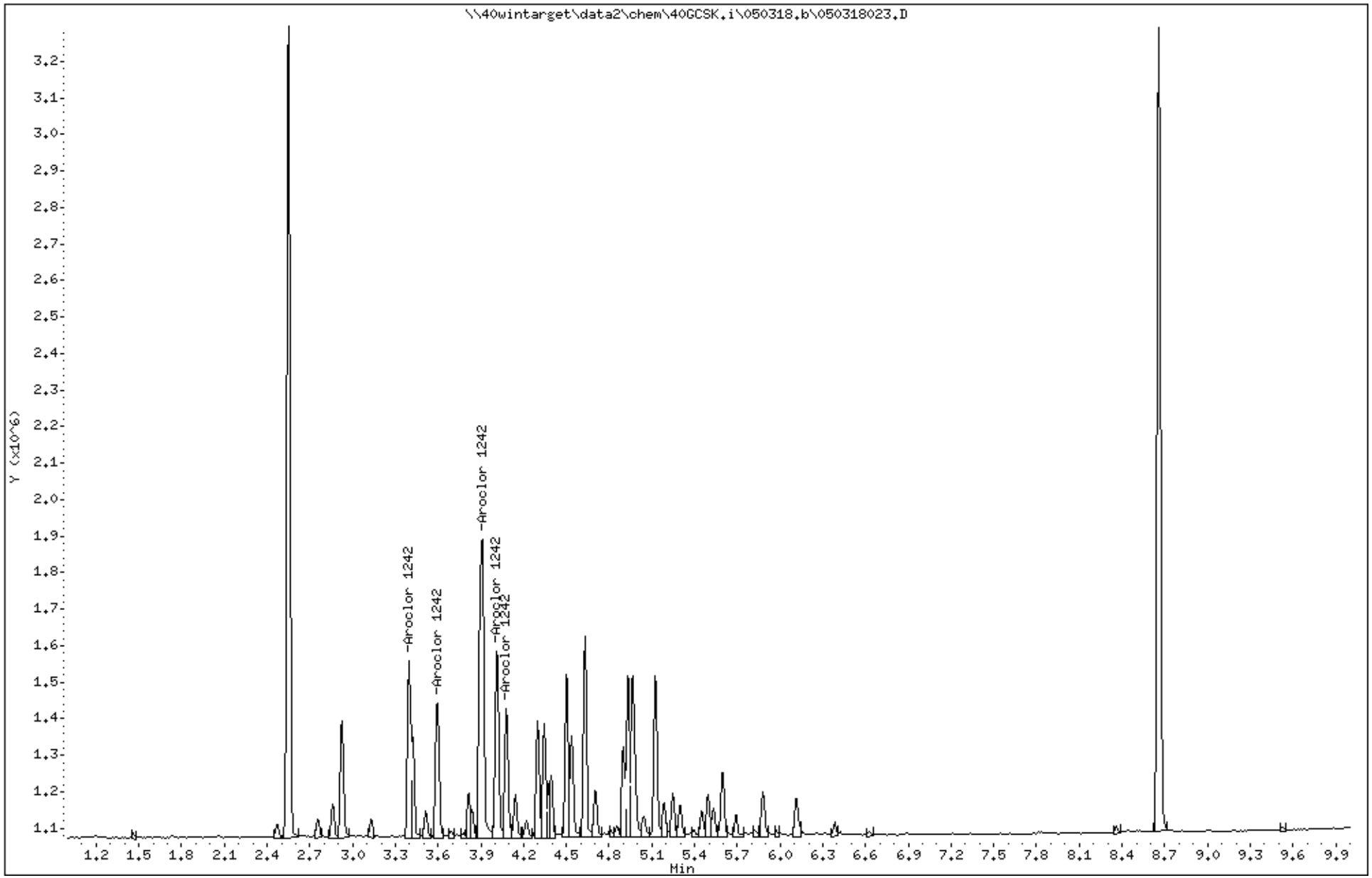
Instrument: 40GCSK.i

Sample Info: 1242-CAL2B, 185543:1

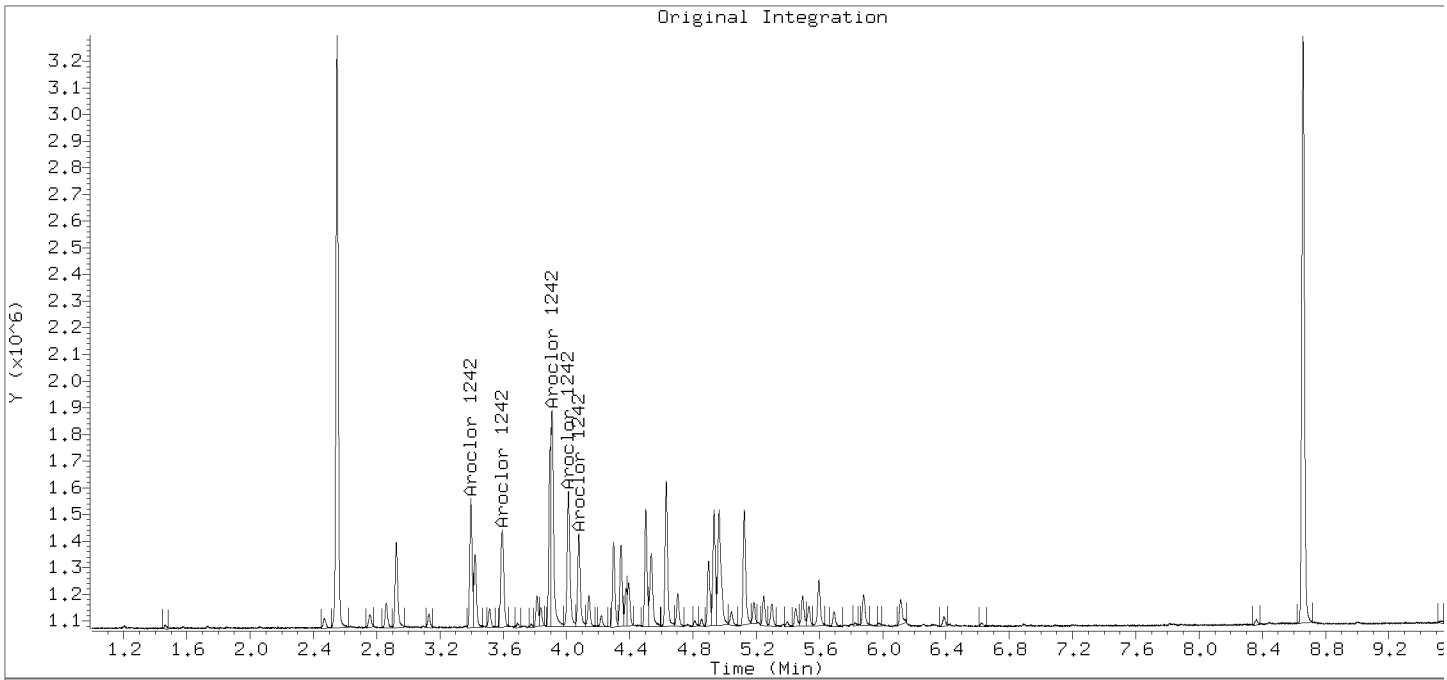
Operator: BLM

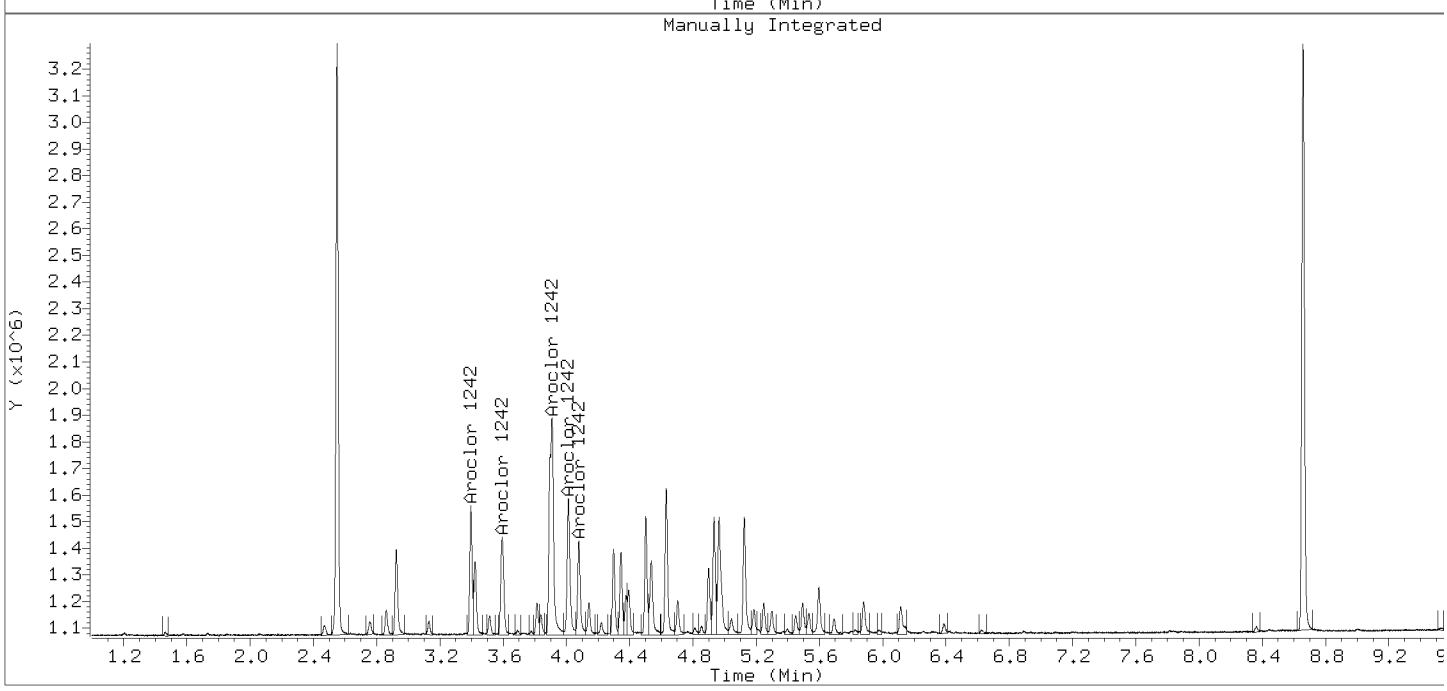
Column phase: ZB-1ms

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

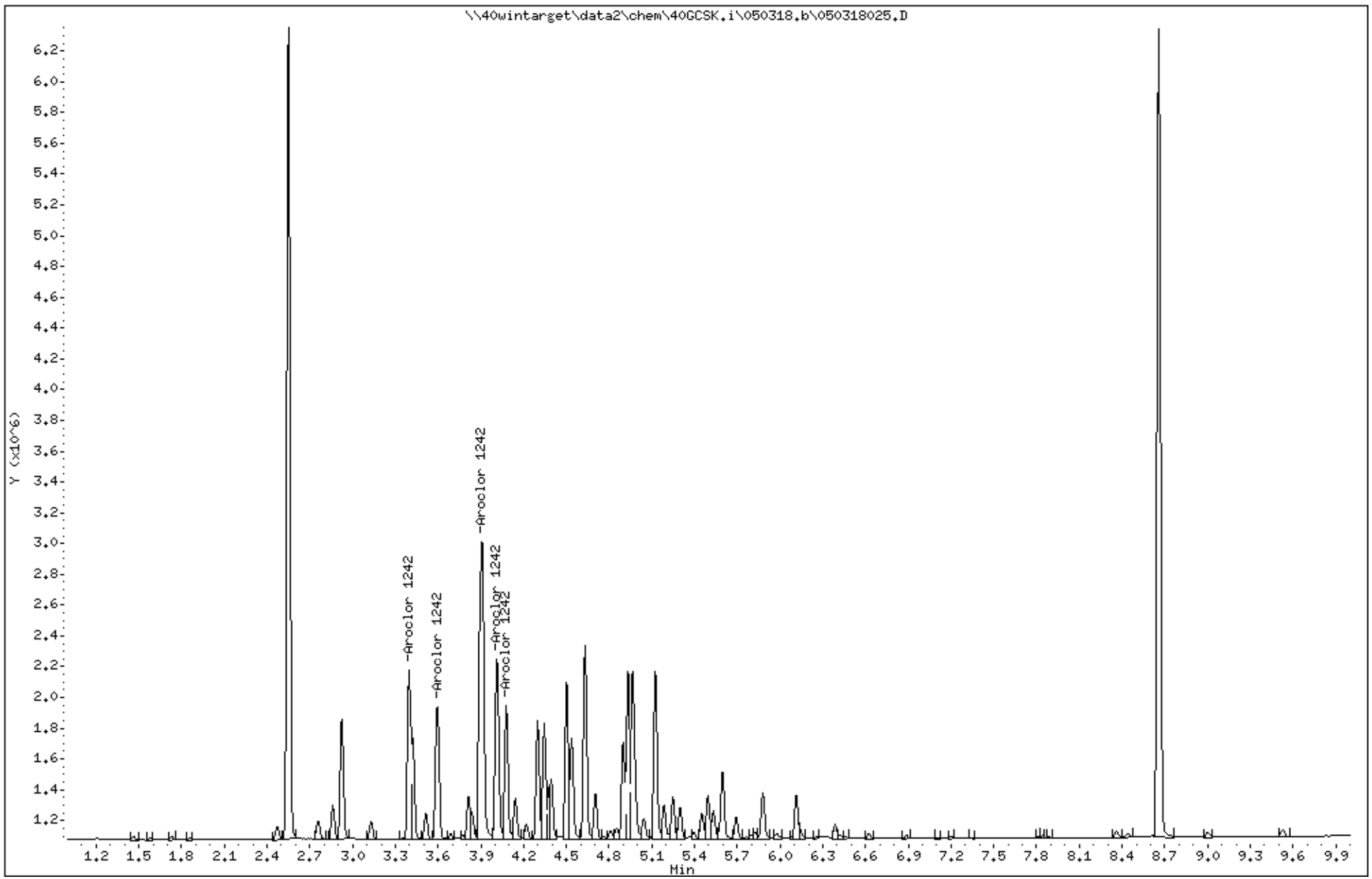
Instrument: 40GCSK.i

Sample Info: 1242-CAL3B, 185544:1

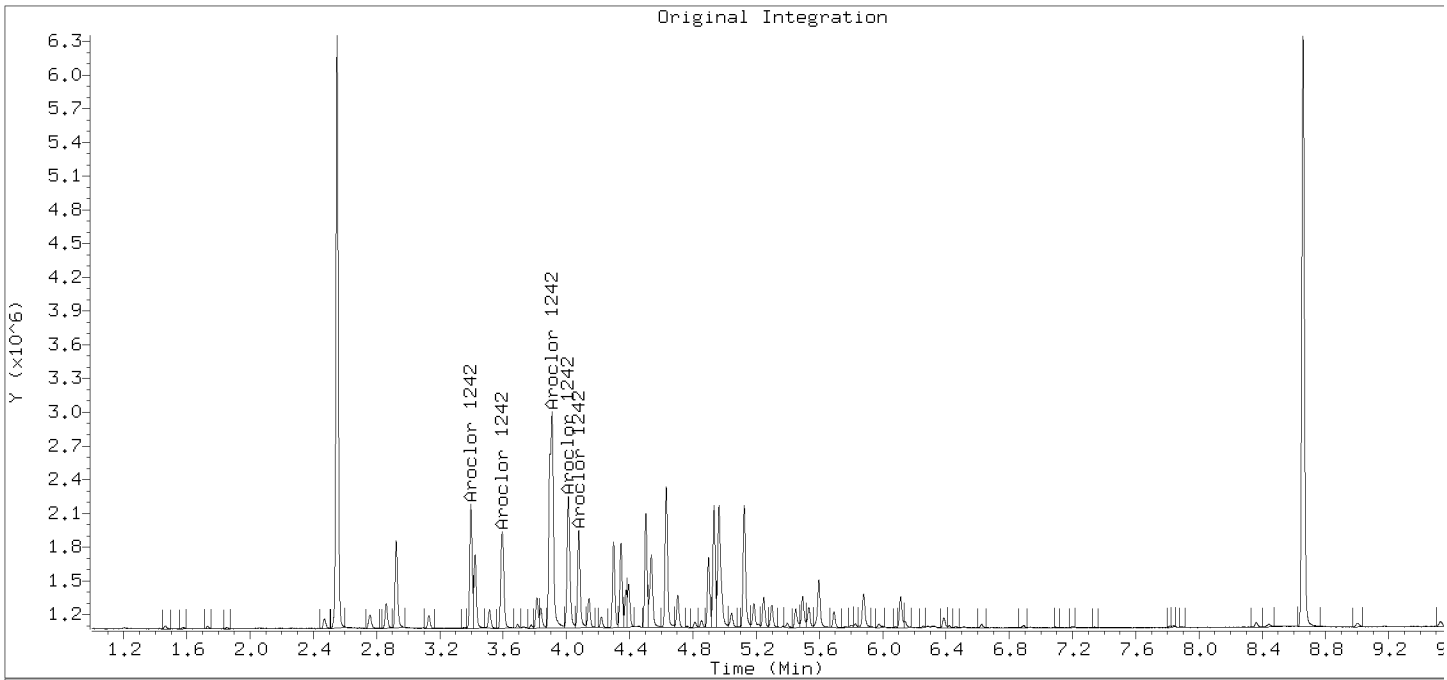
Operator: BLM

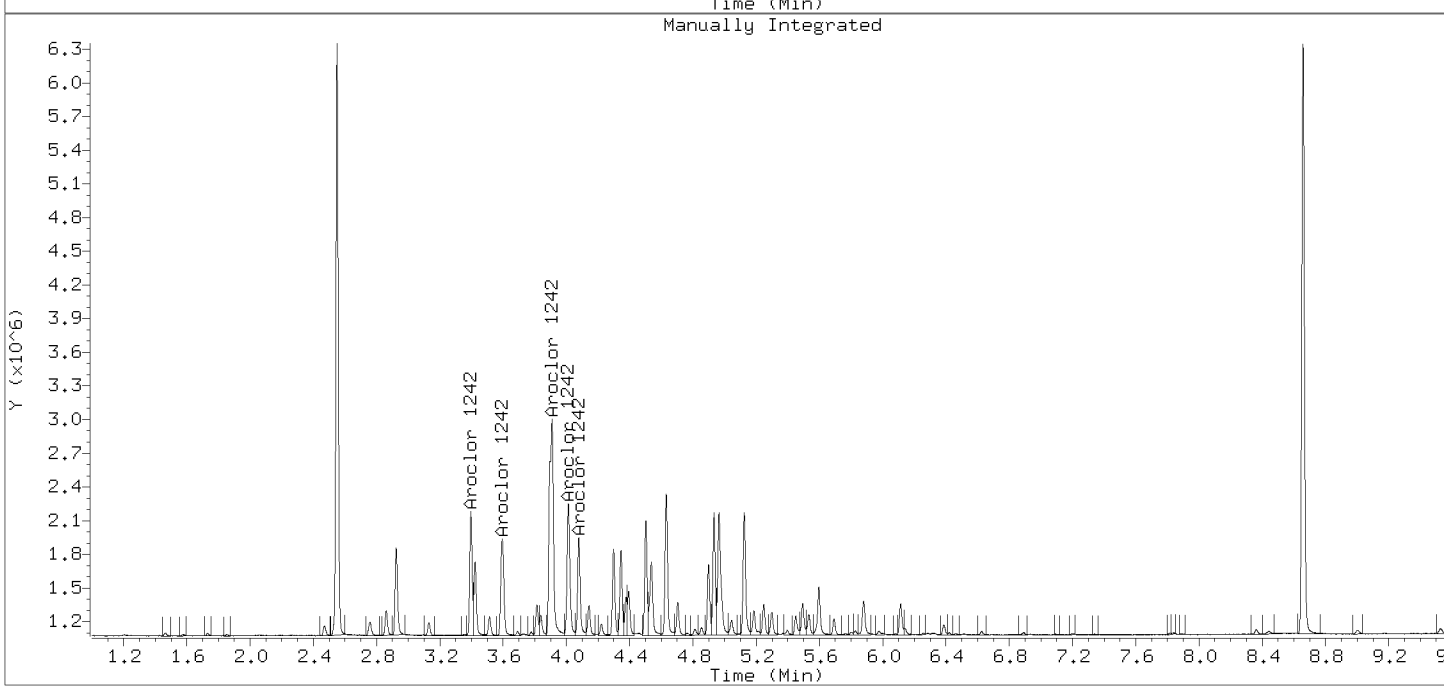
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 13:19

Client ID: 1242-CAL4B

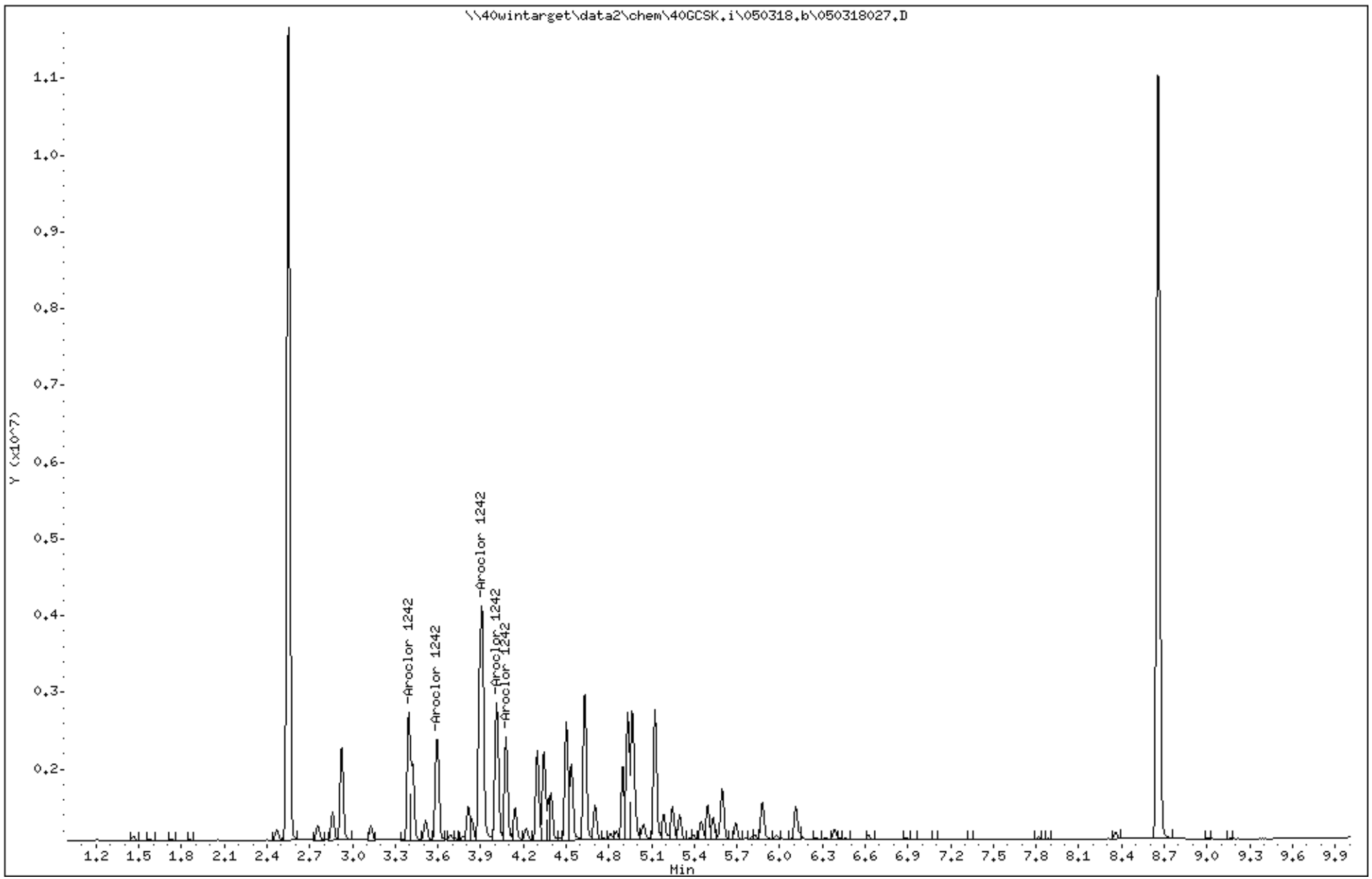
Instrument: 40GCSK.i

Sample Info: 1242-CAL4B, 185545:1

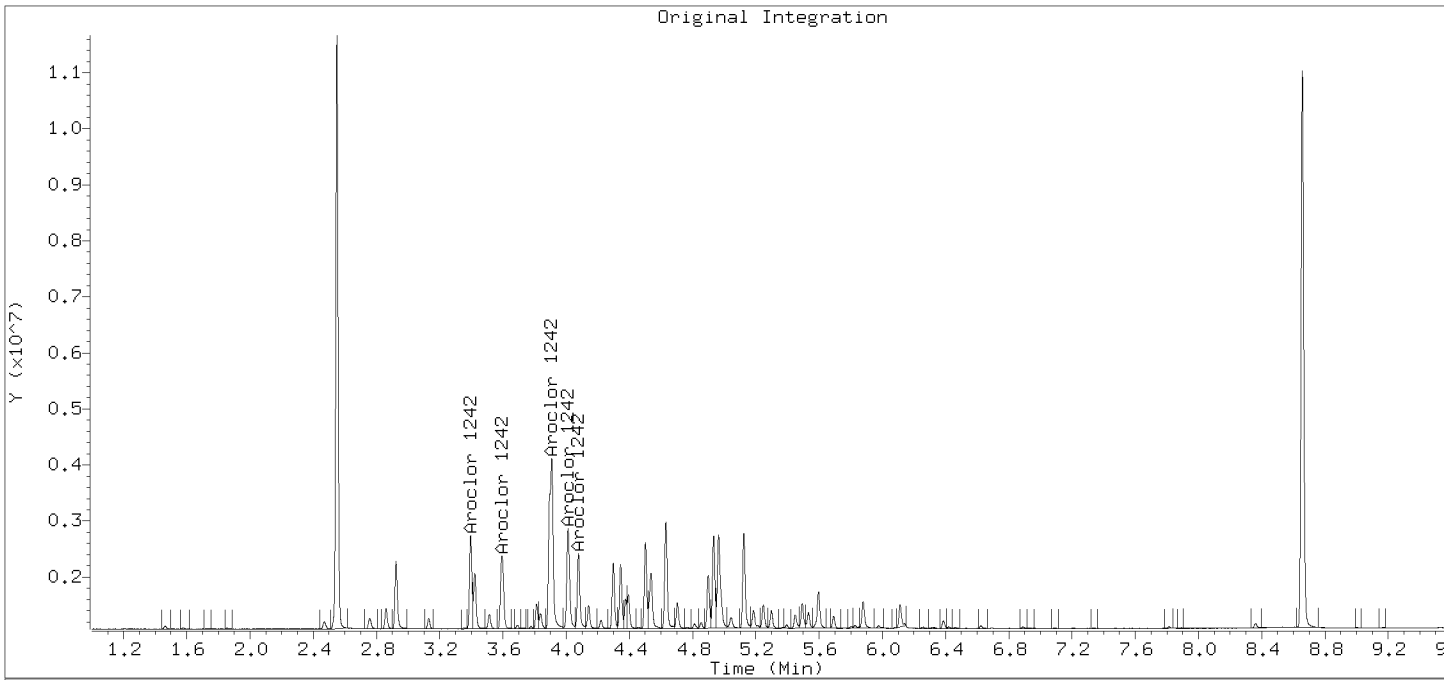
Operator: BLM

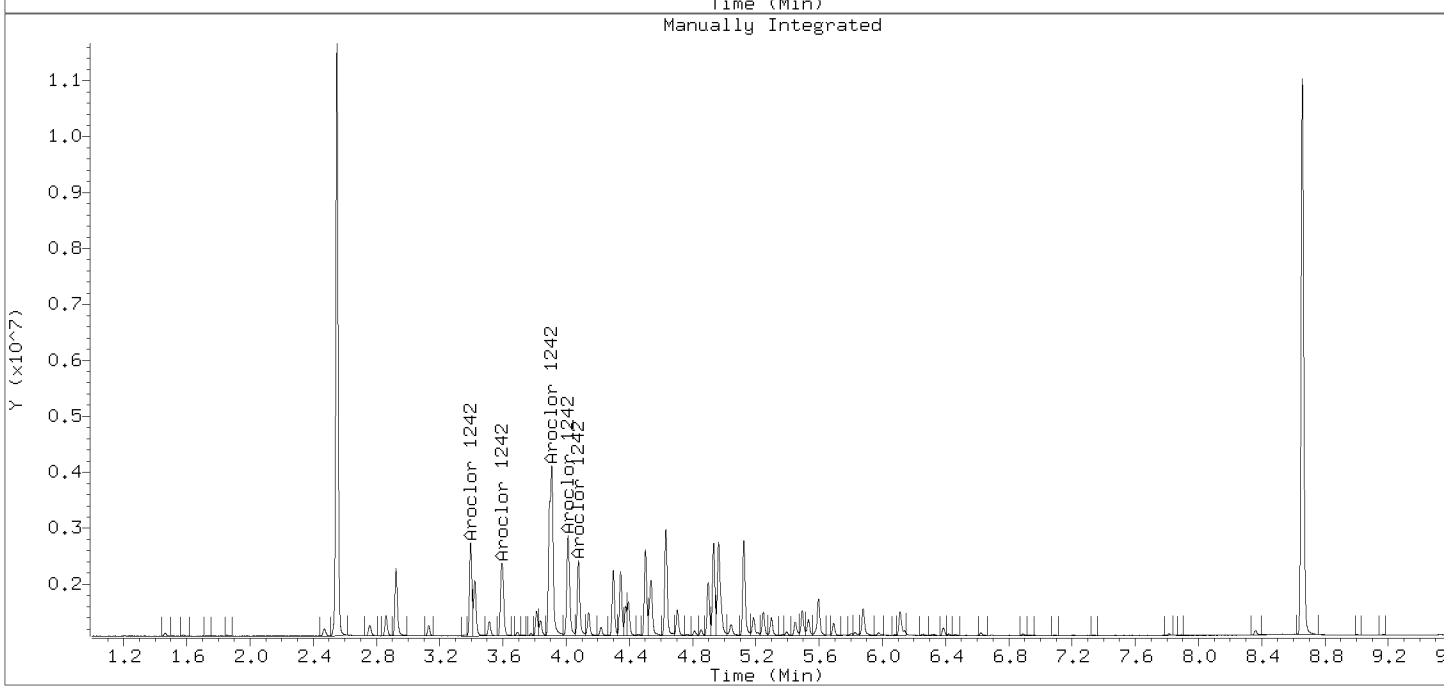
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D

Date : 03-MAY-2018 13:35

Client ID: 1242-CAL5B

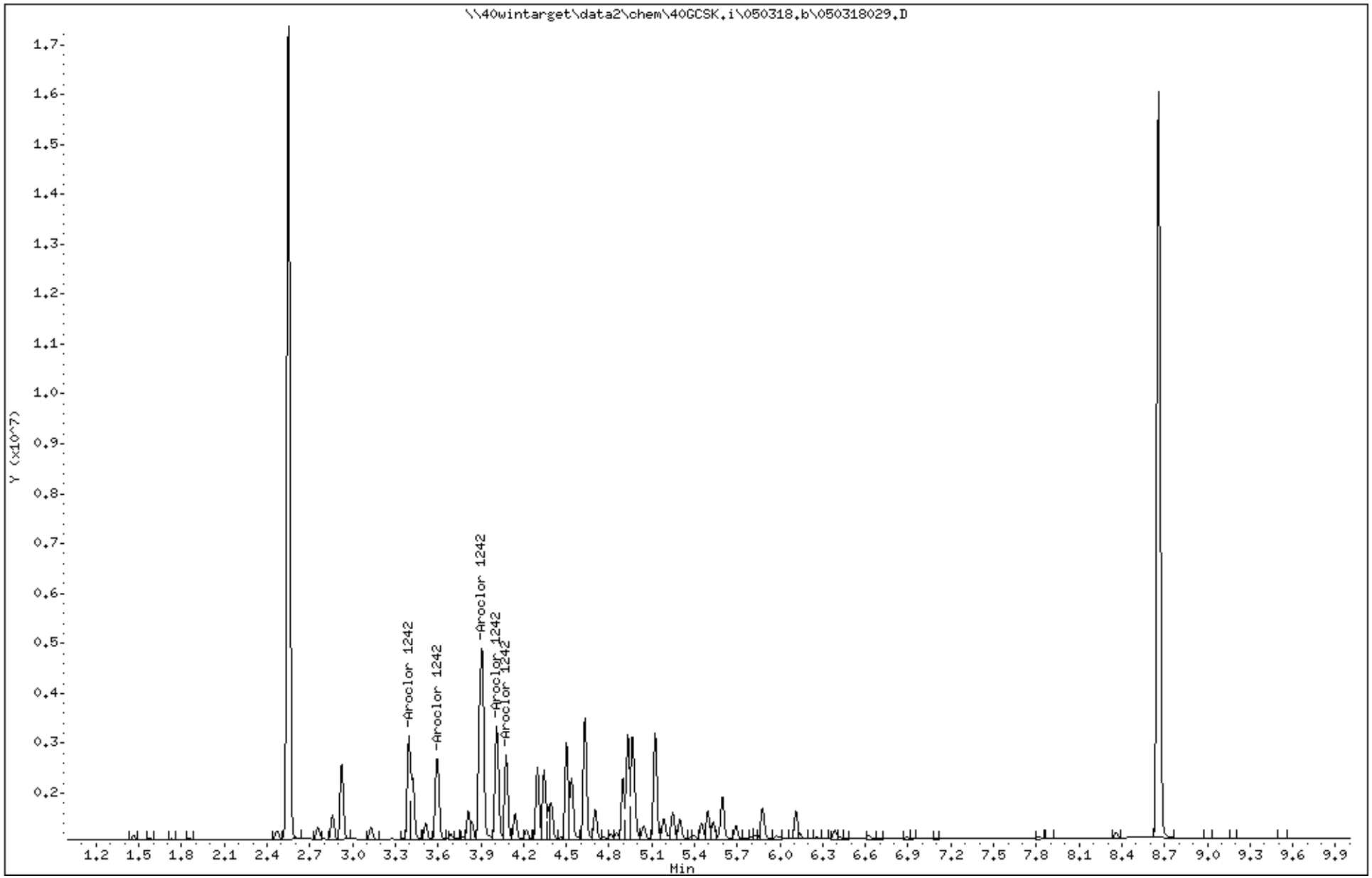
Instrument: 40GCSK.i

Sample Info: 1242-CAL5B, 185546:1

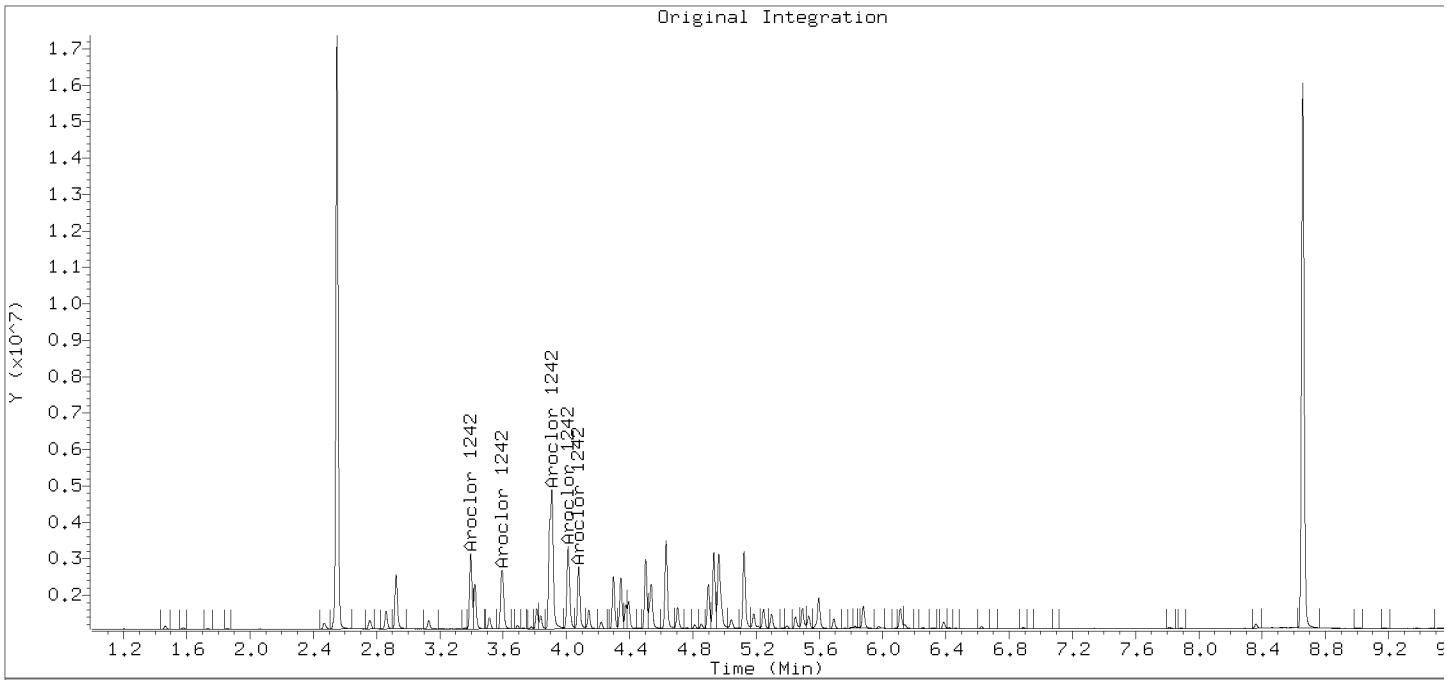
Operator: BLM

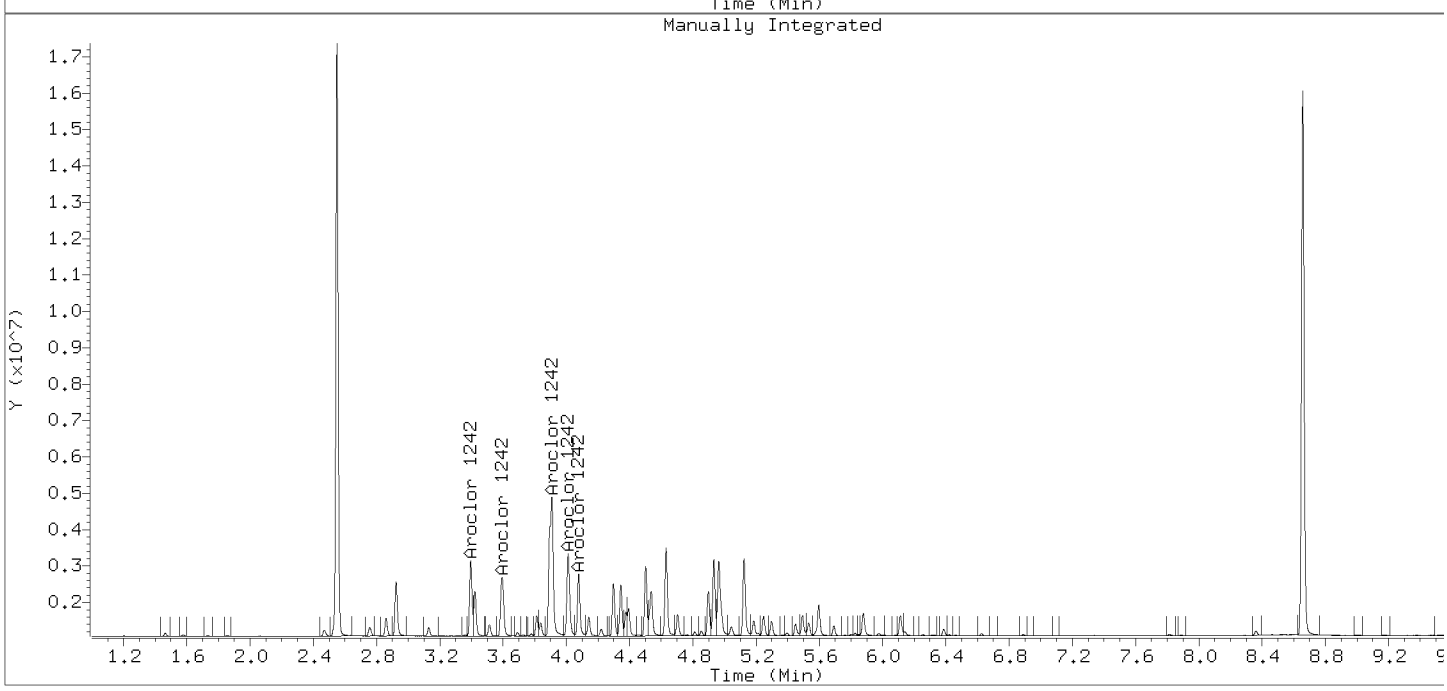
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 14:07

Client ID: 1248-CAL1D

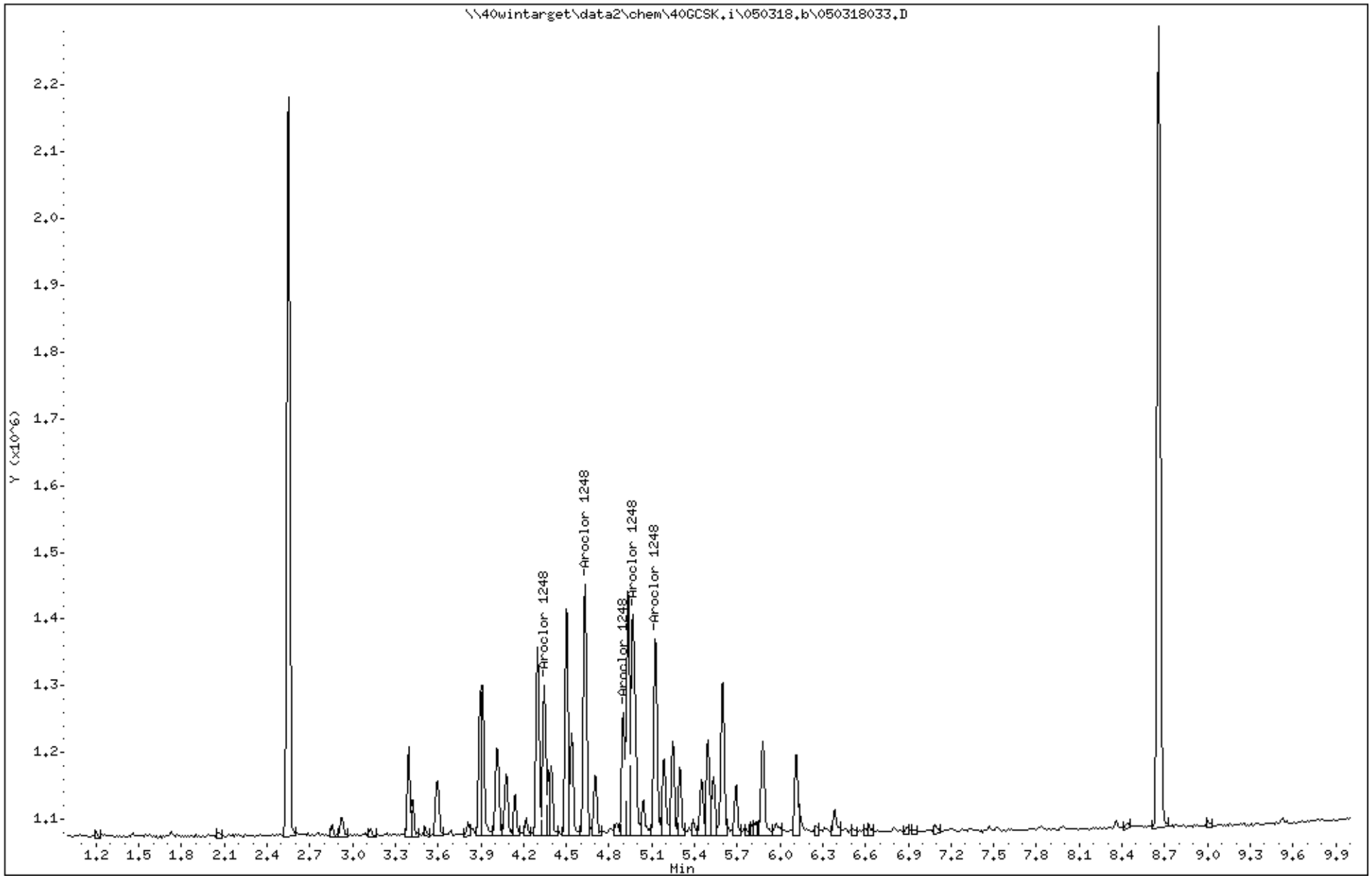
Instrument: 40GCSK.i

Sample Info: 1248-CAL1D, 188134:1

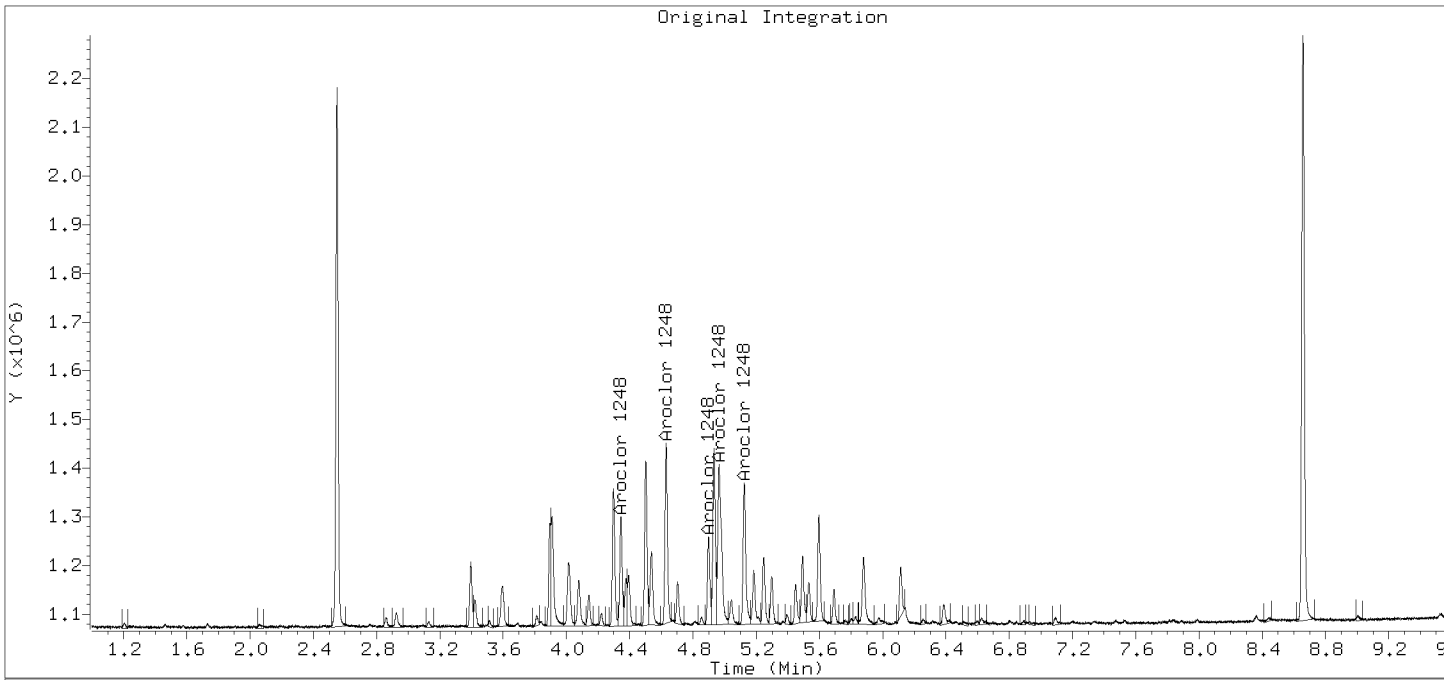
Operator: BLM

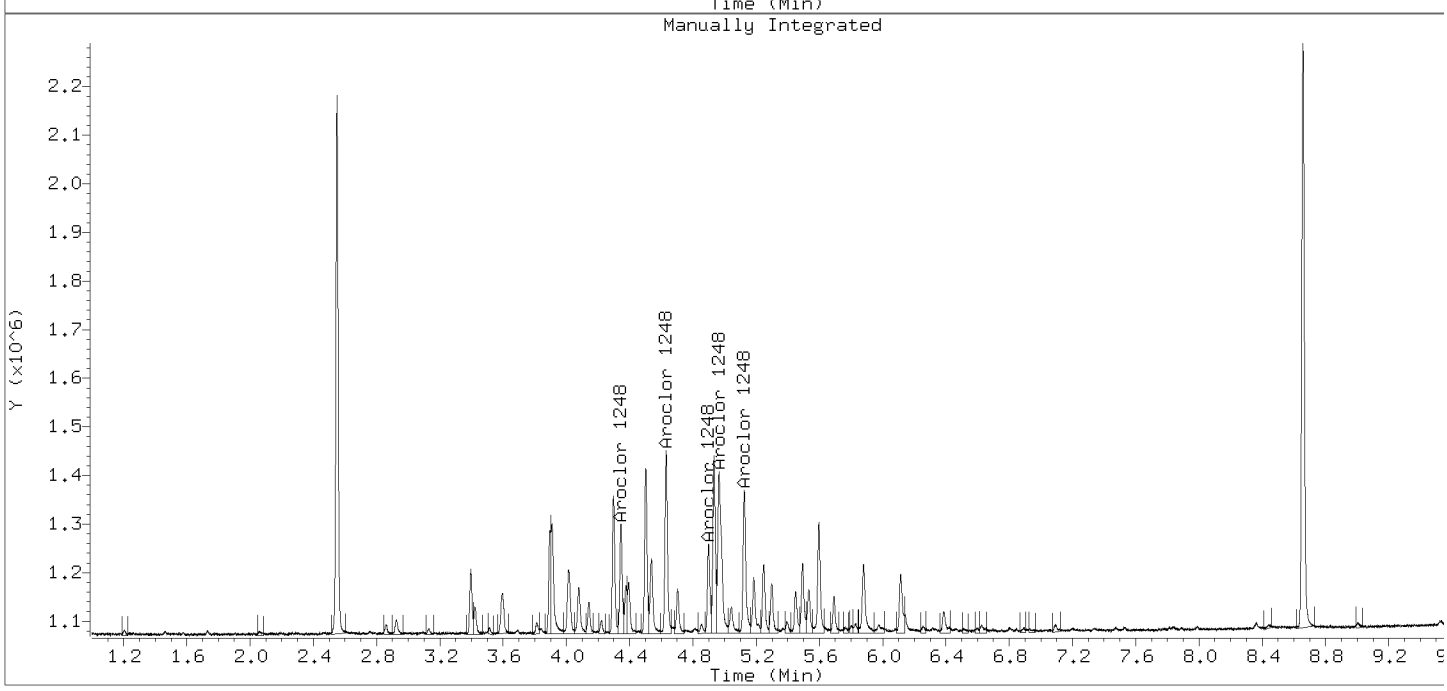
Column phase: ZB-1ms

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

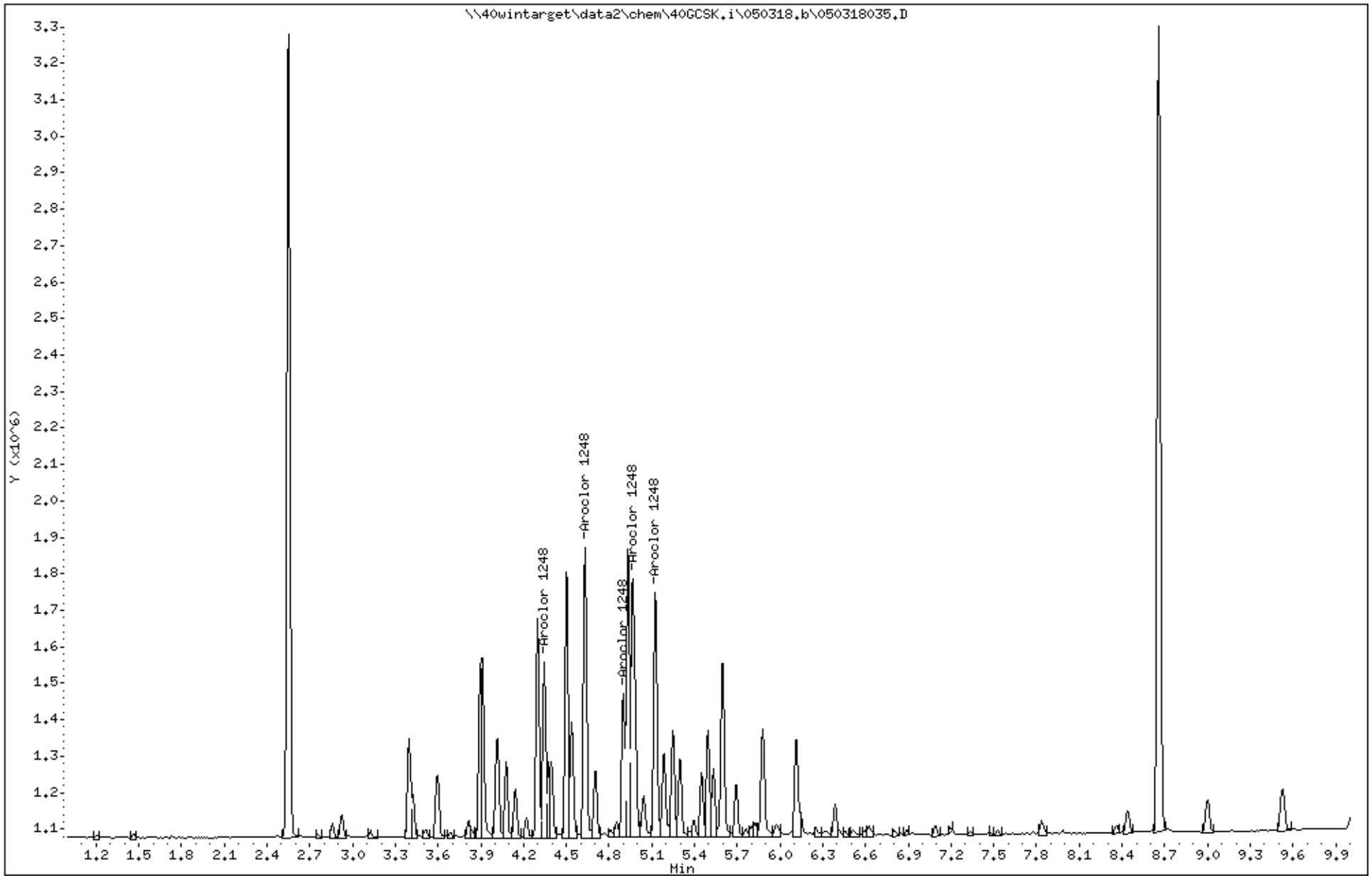
Instrument: 40GCSK.i

Sample Info: 1248-CAL2D, 185548:1

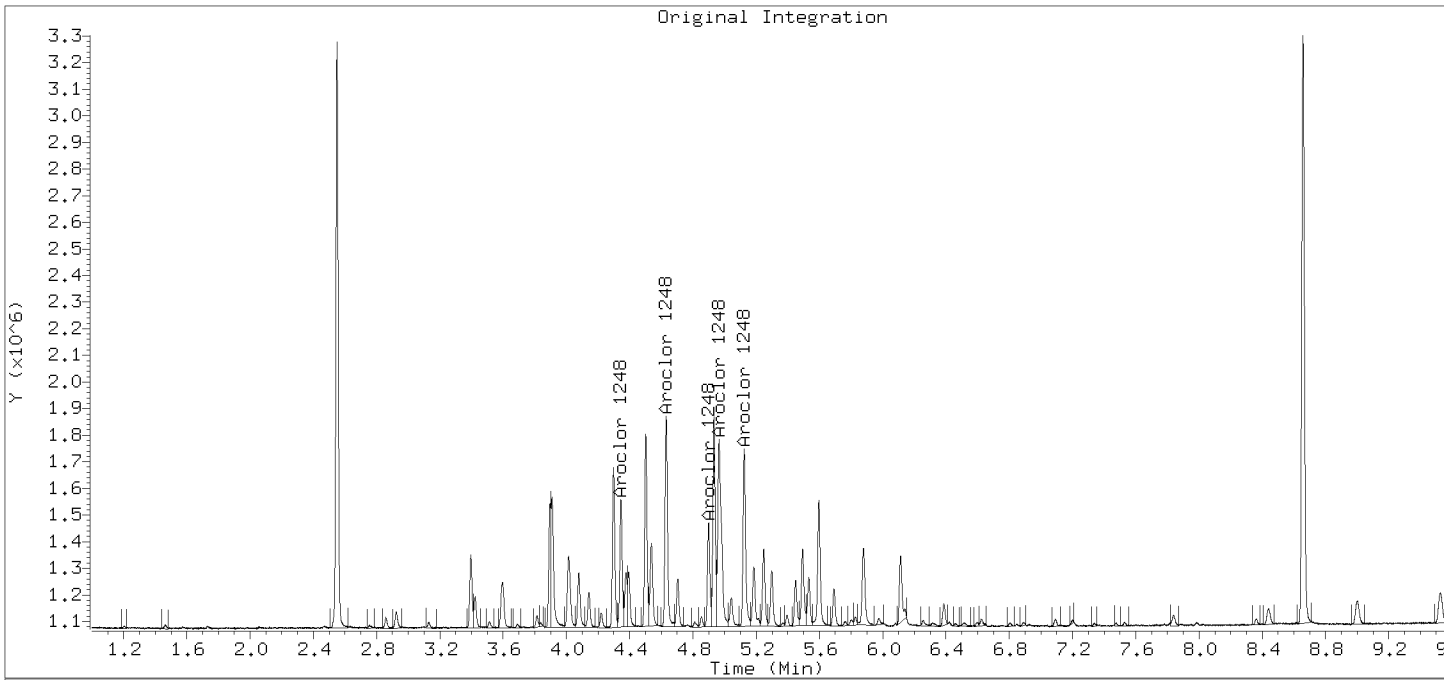
Operator: BLM

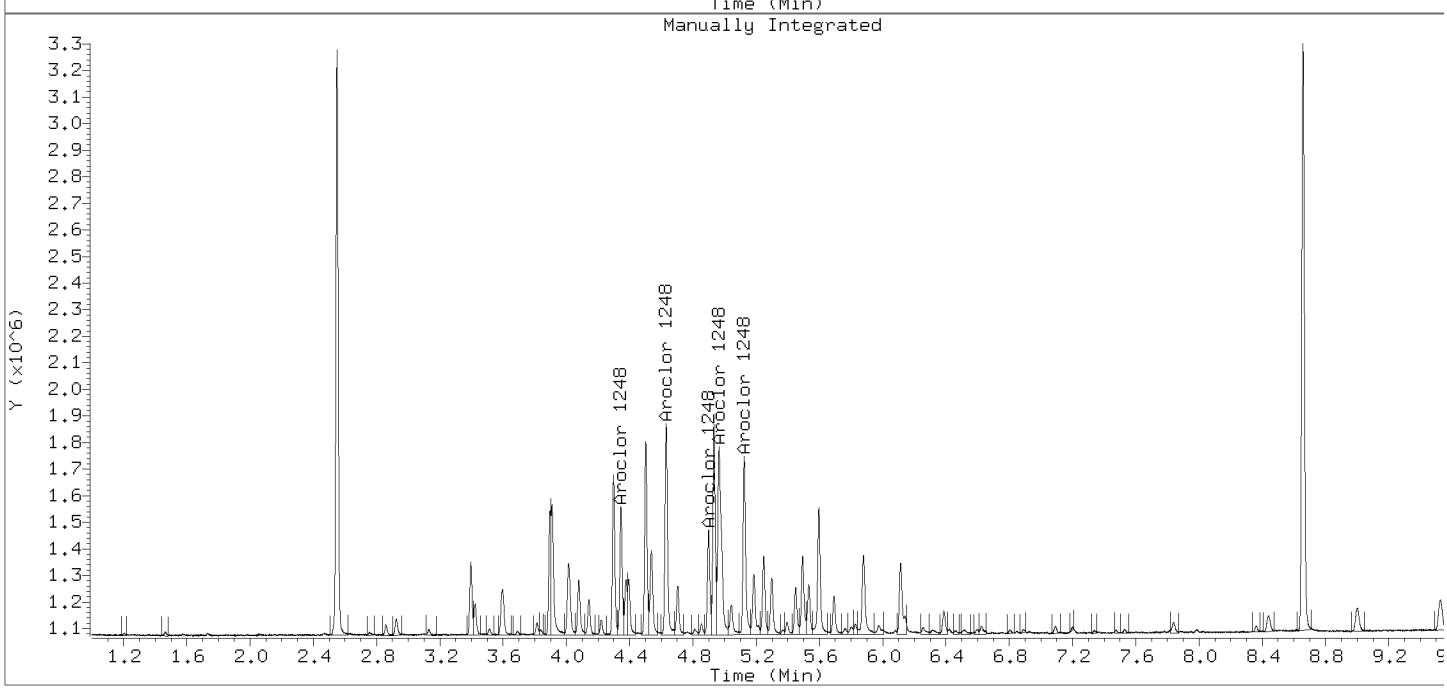
Column phase: ZB-1ms

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.

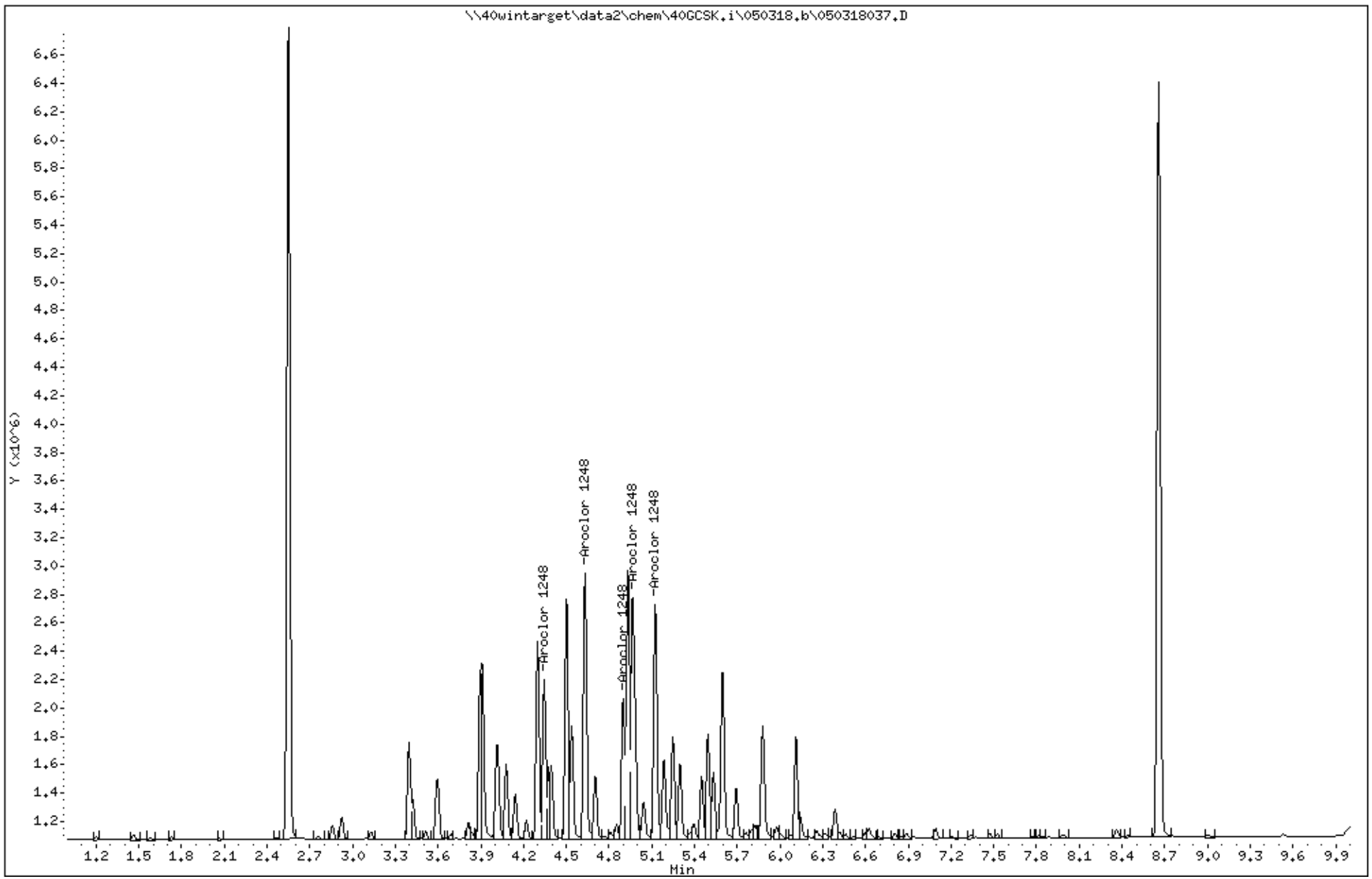
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Date : 03-MAY-2018 14:39
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSK.i

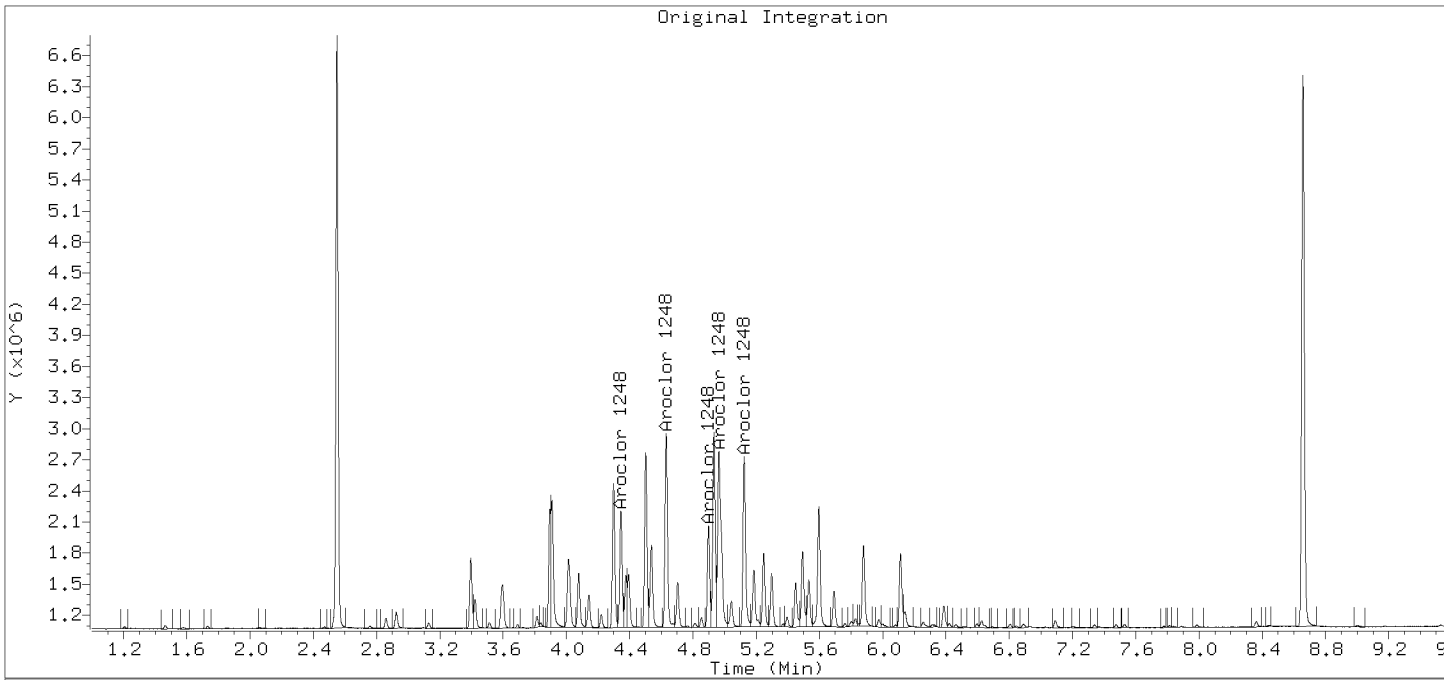
Operator: BLM

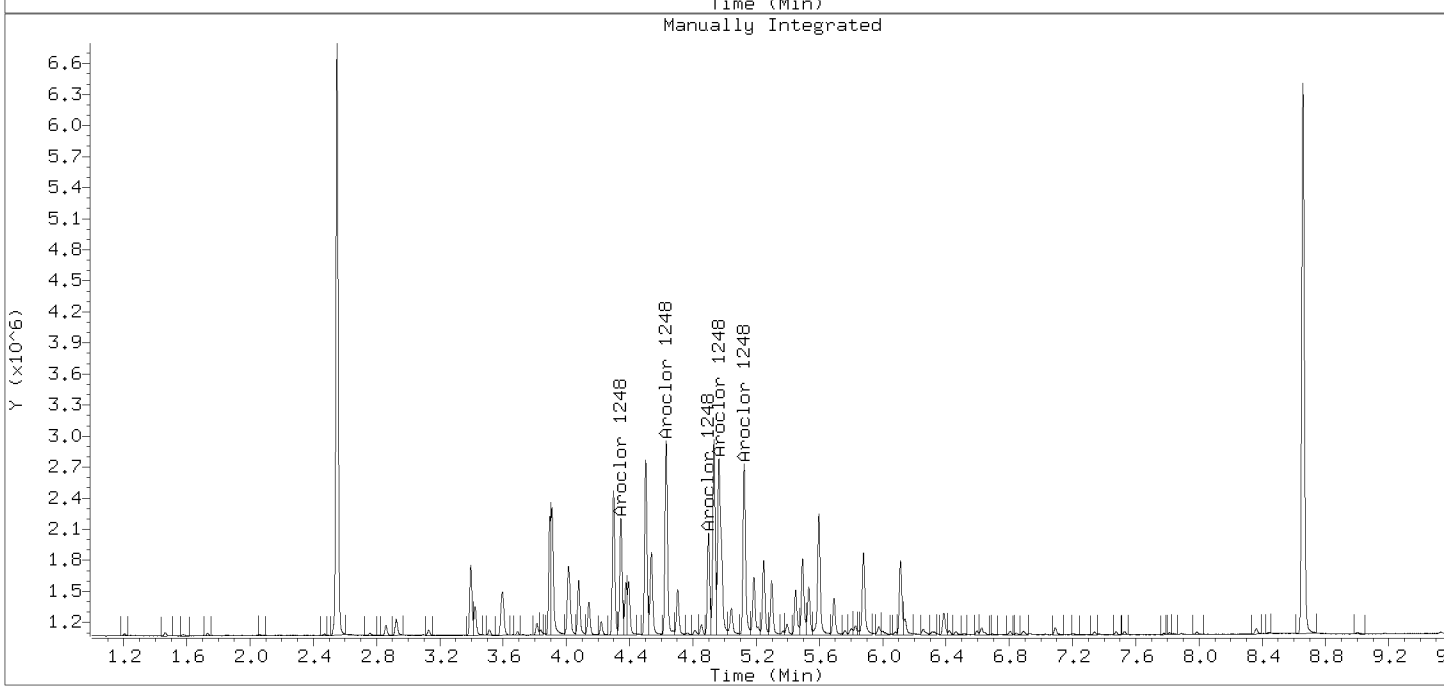
Column phase: ZB-1ms

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

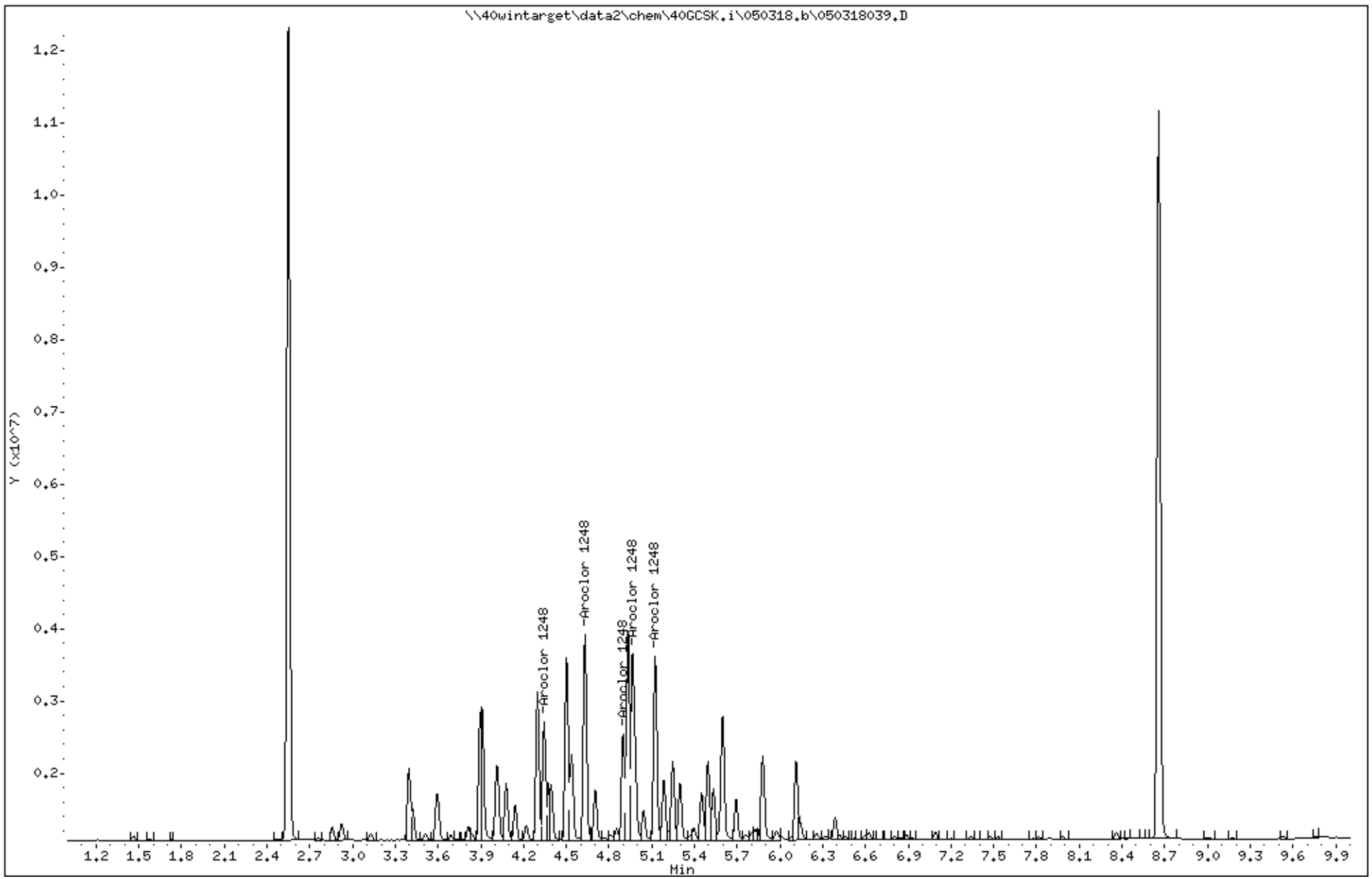
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Date : 03-MAY-2018 14:56
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSK.i

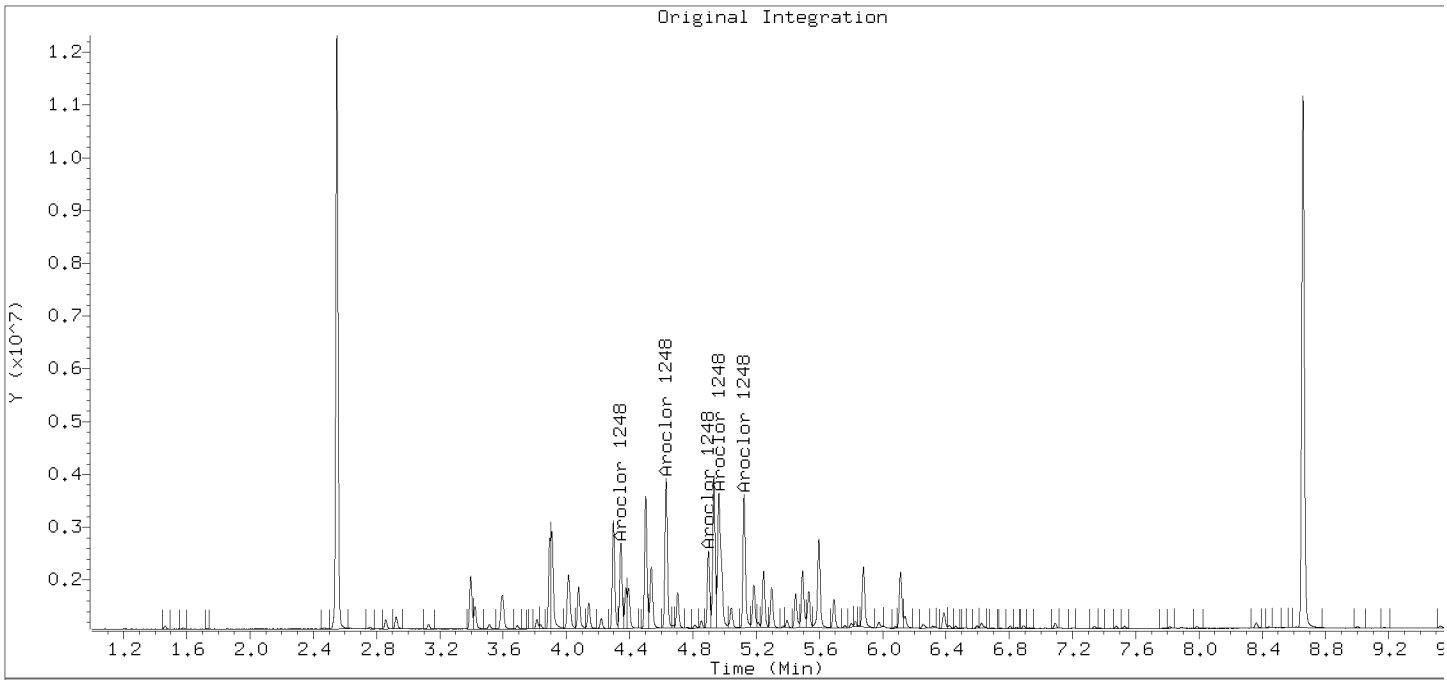
Operator: BLM

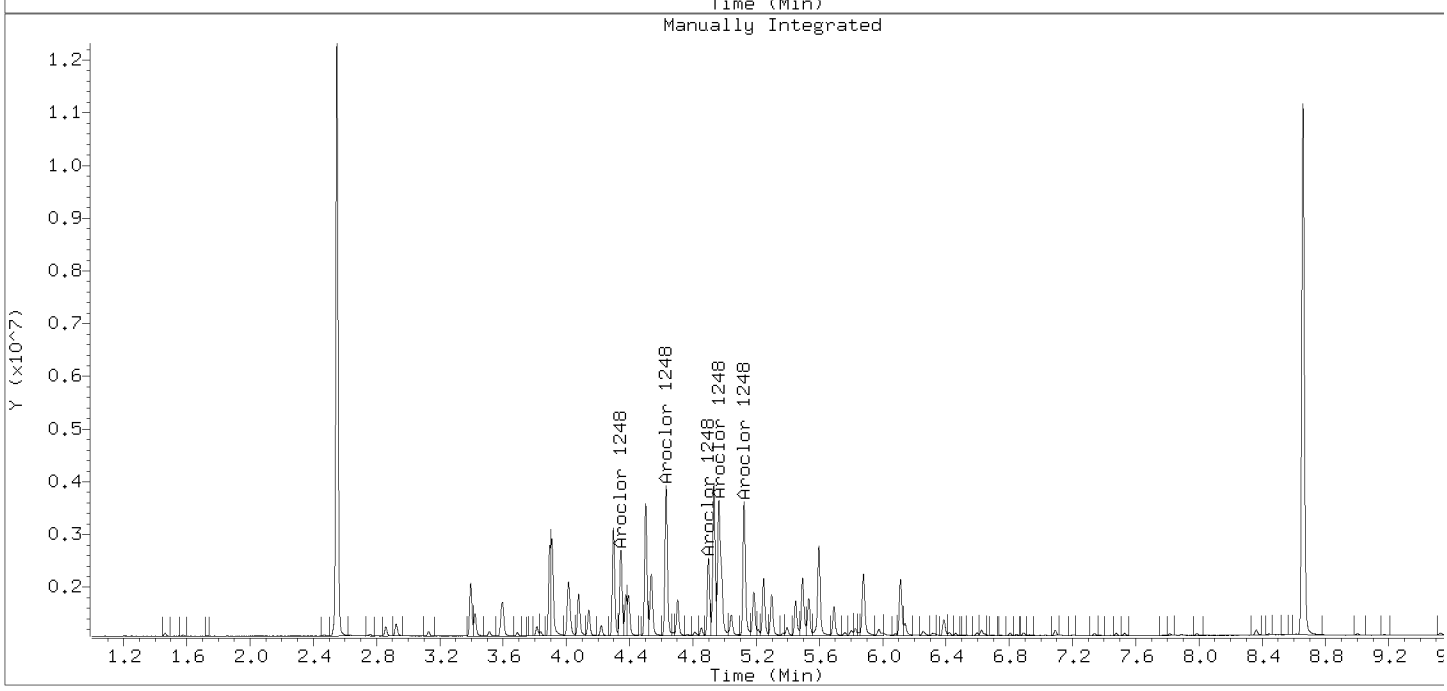
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 15:12

Client ID: 1248-CAL5D

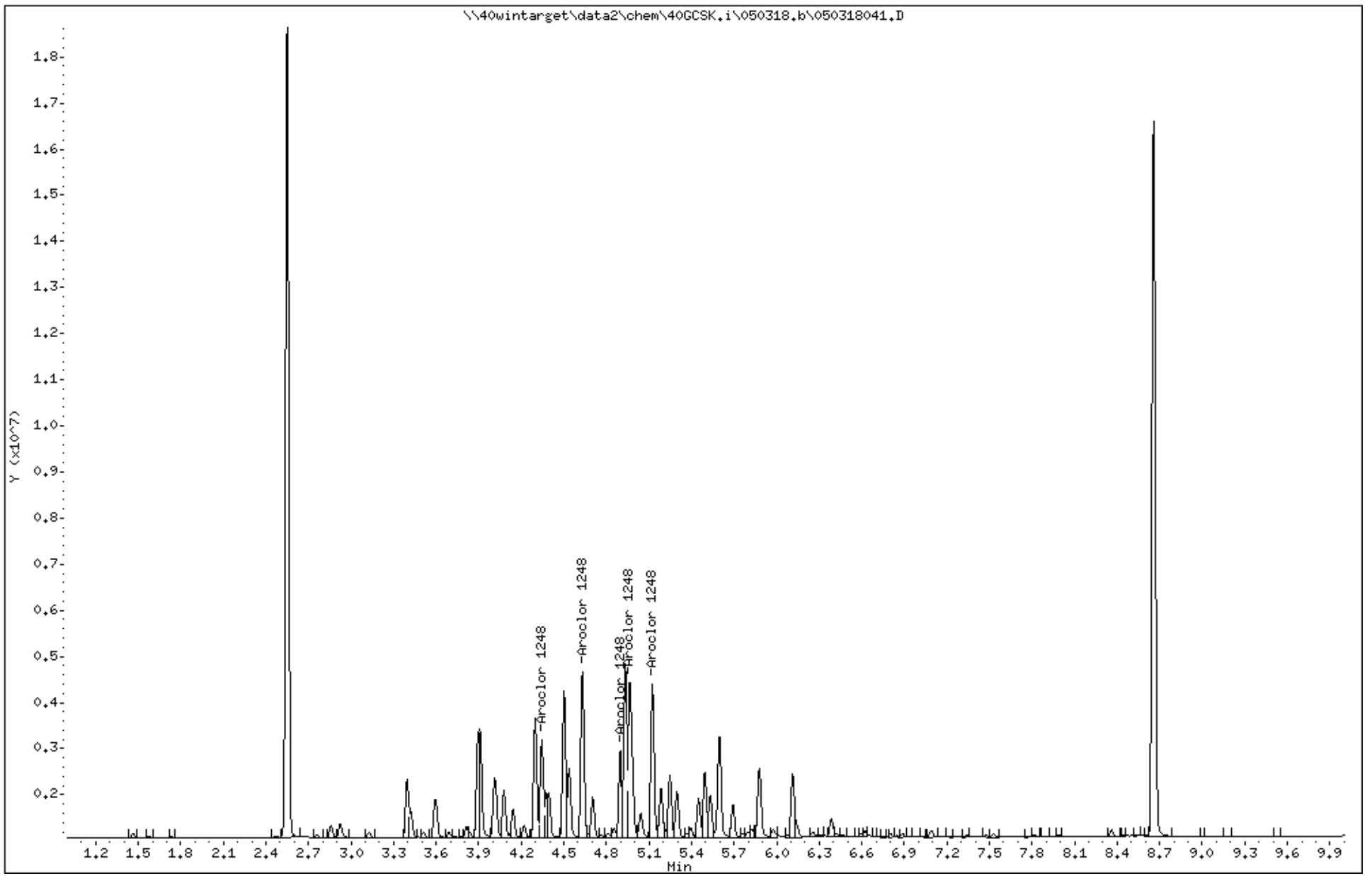
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

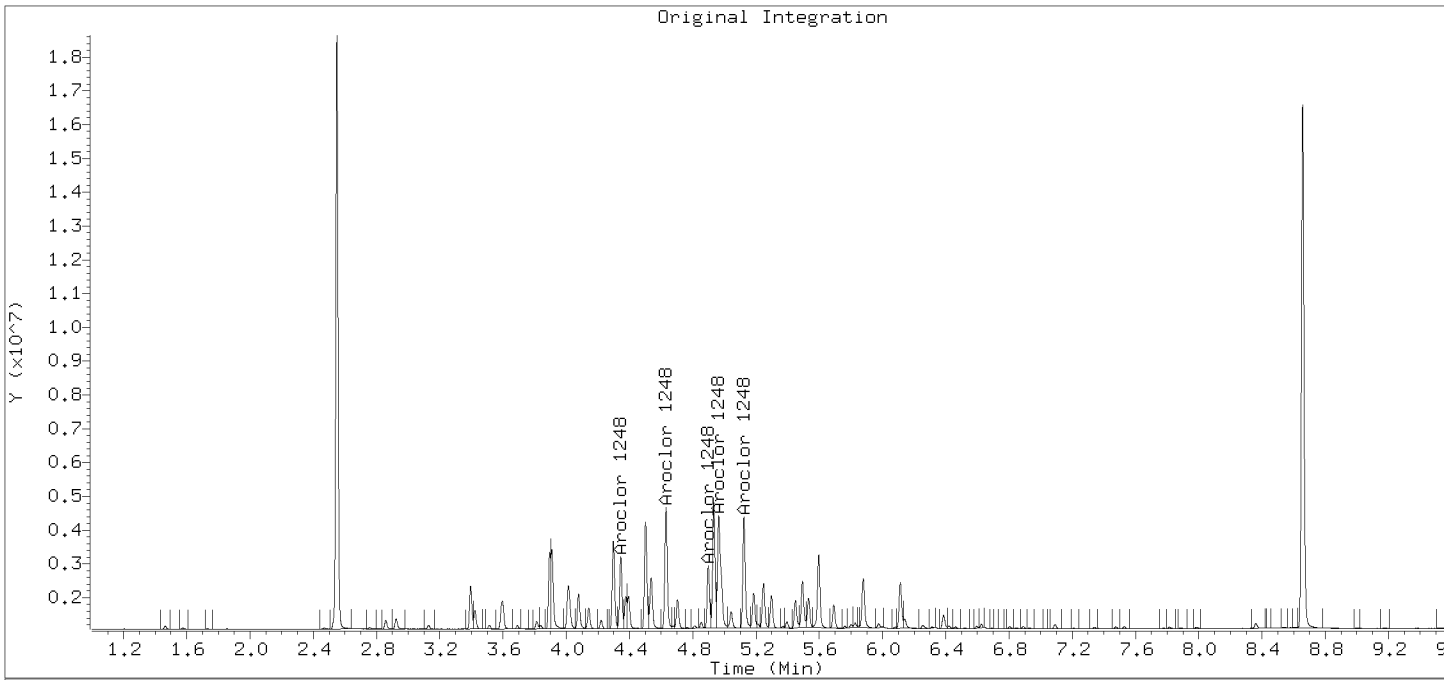
Operator: BLM

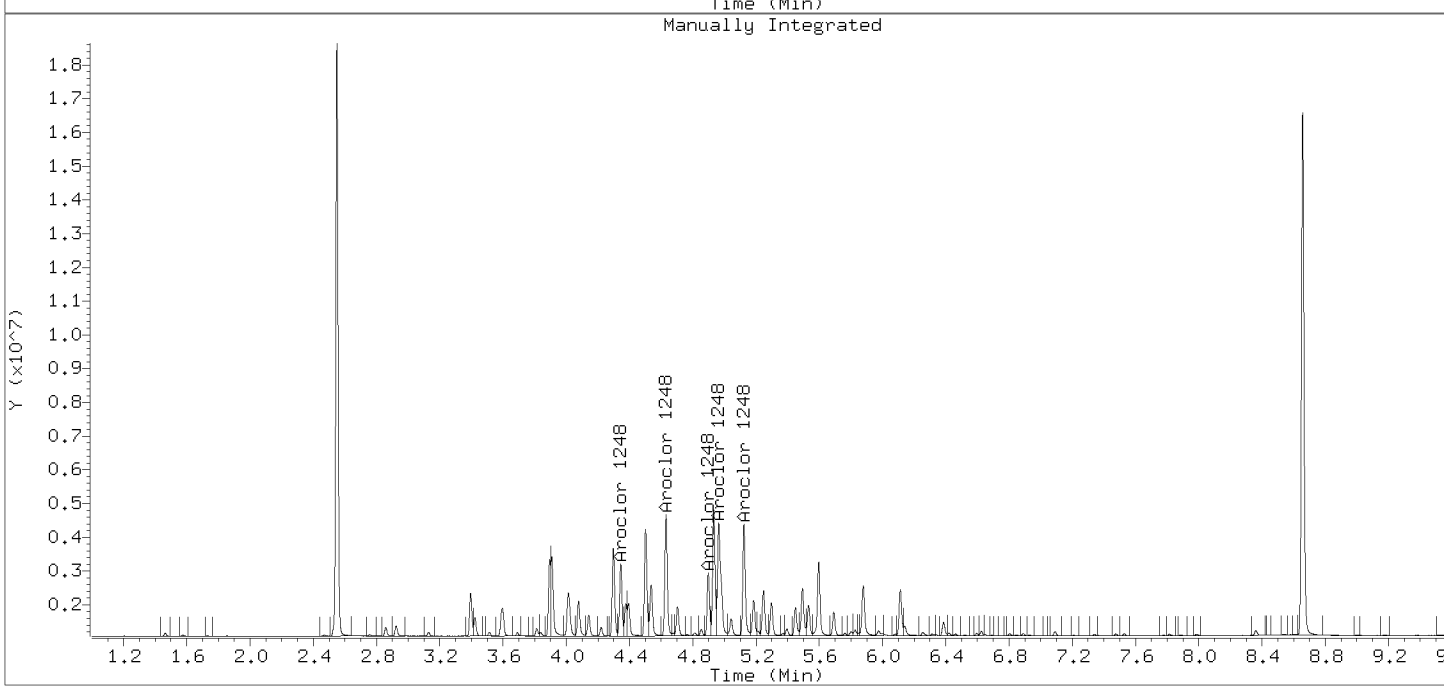
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 15:44

Client ID: 1254-CAL1C

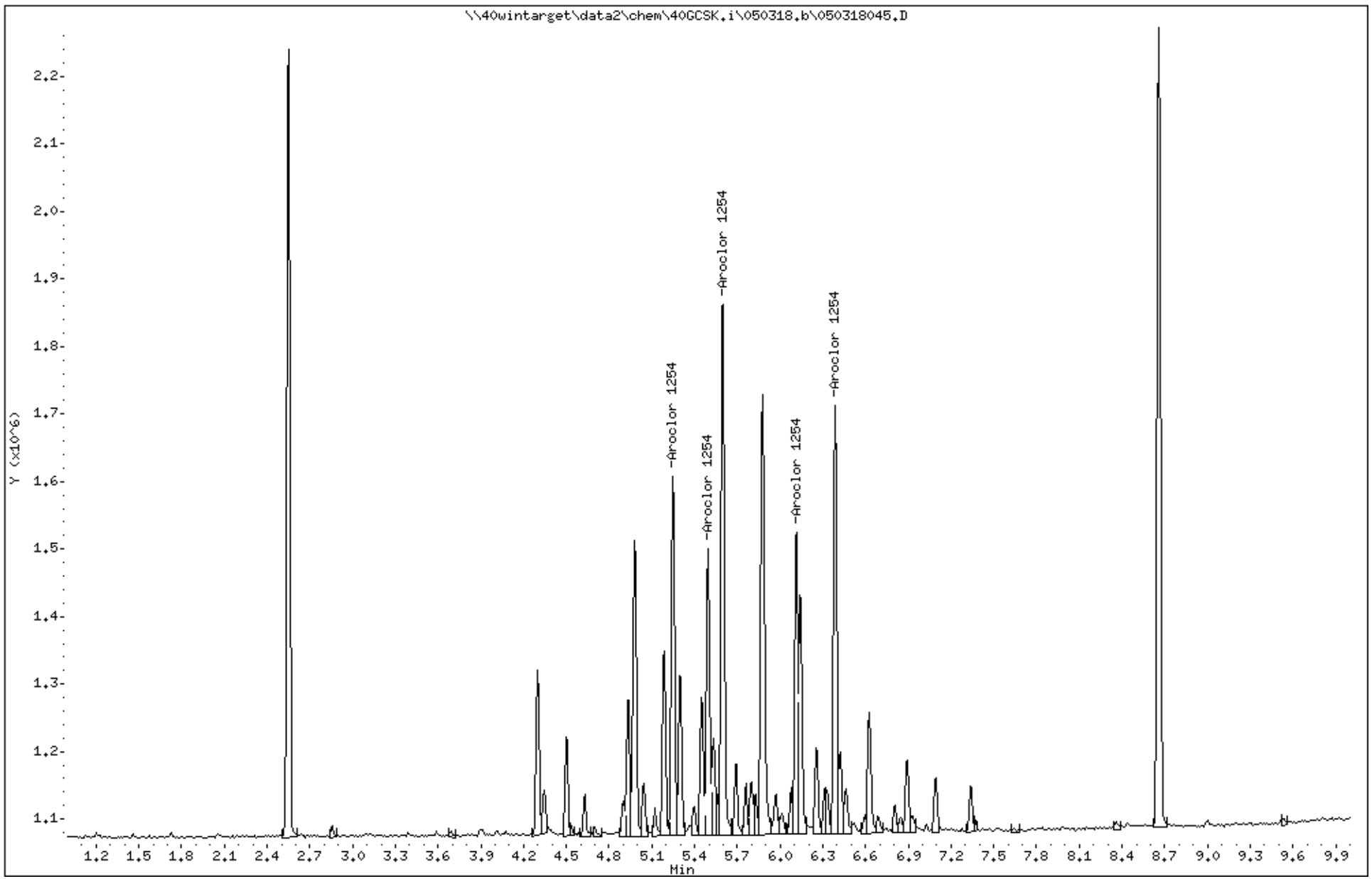
Instrument: 40GCSK.i

Sample Info: 1254-CAL1C, 188135:1

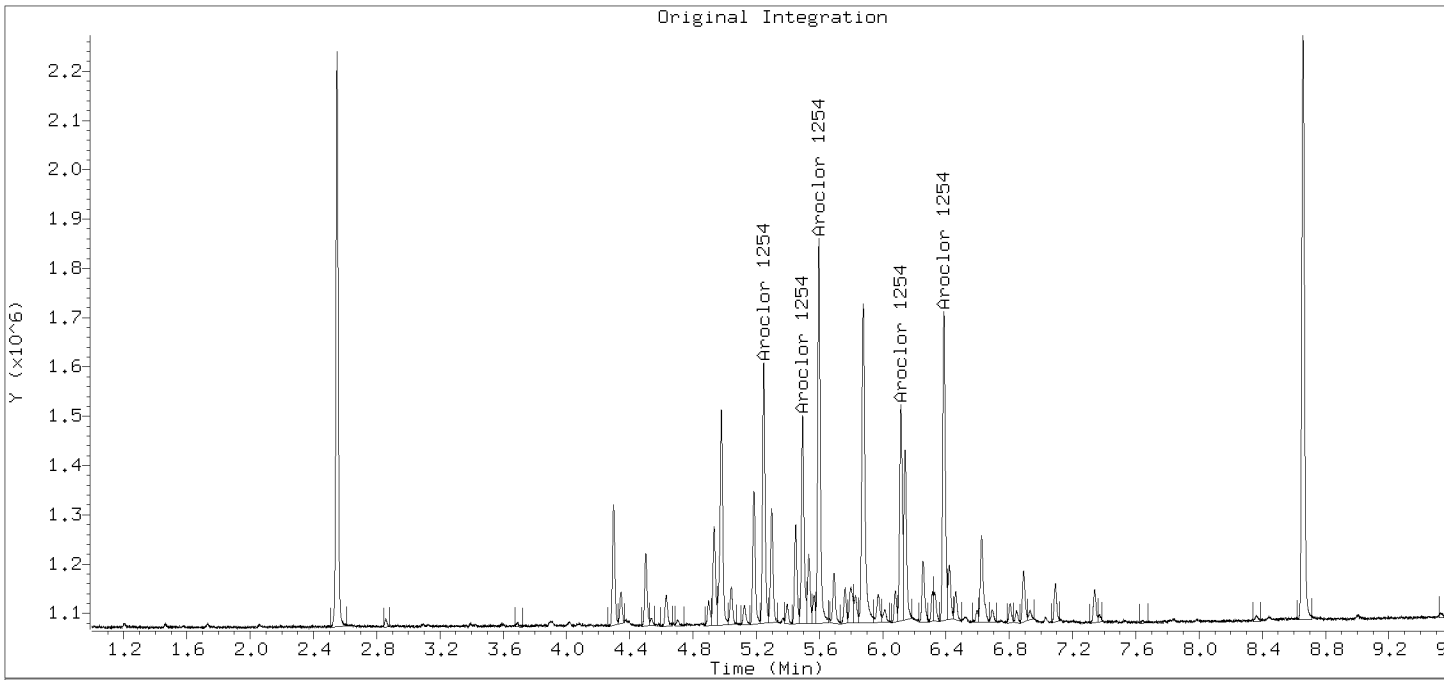
Operator: BLM

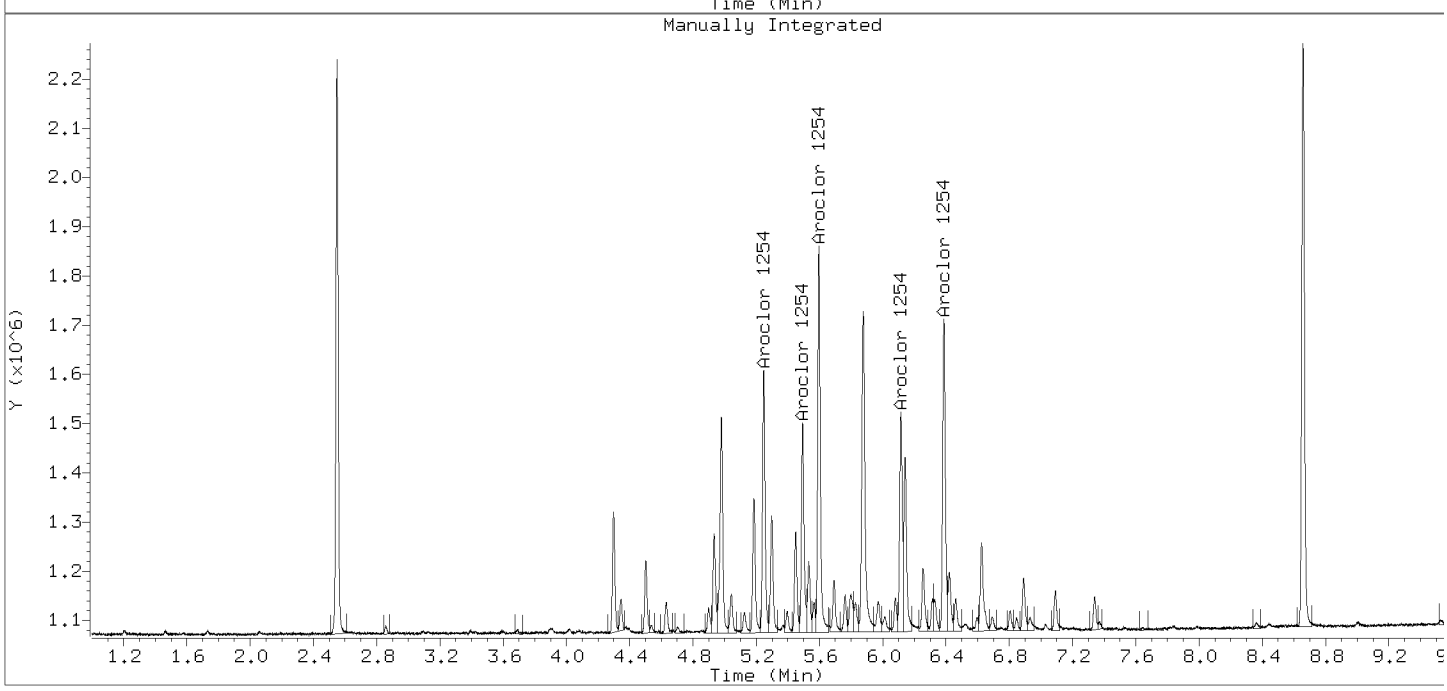
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

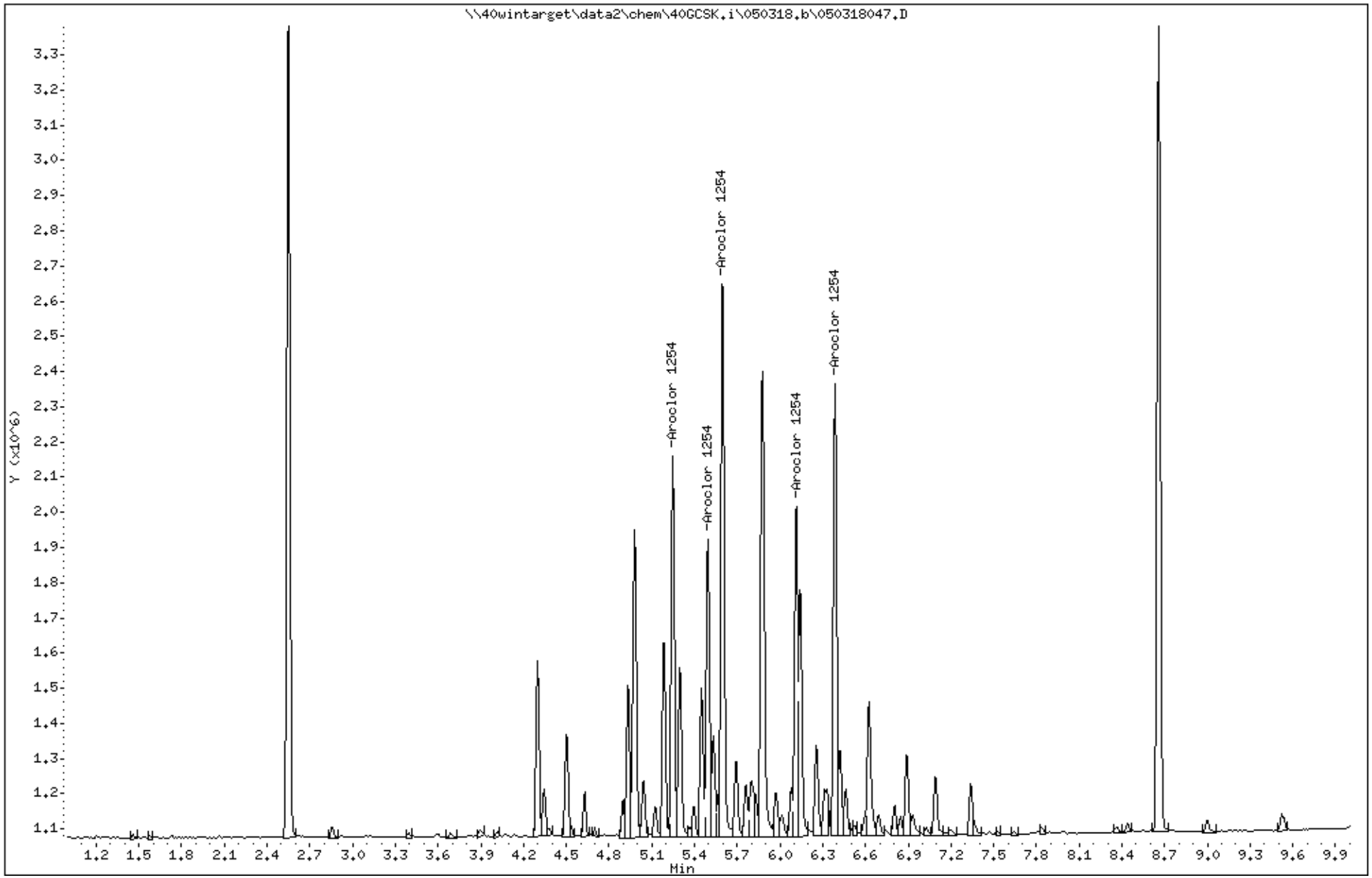
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Date : 03-MAY-2018 16:00
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSK.i

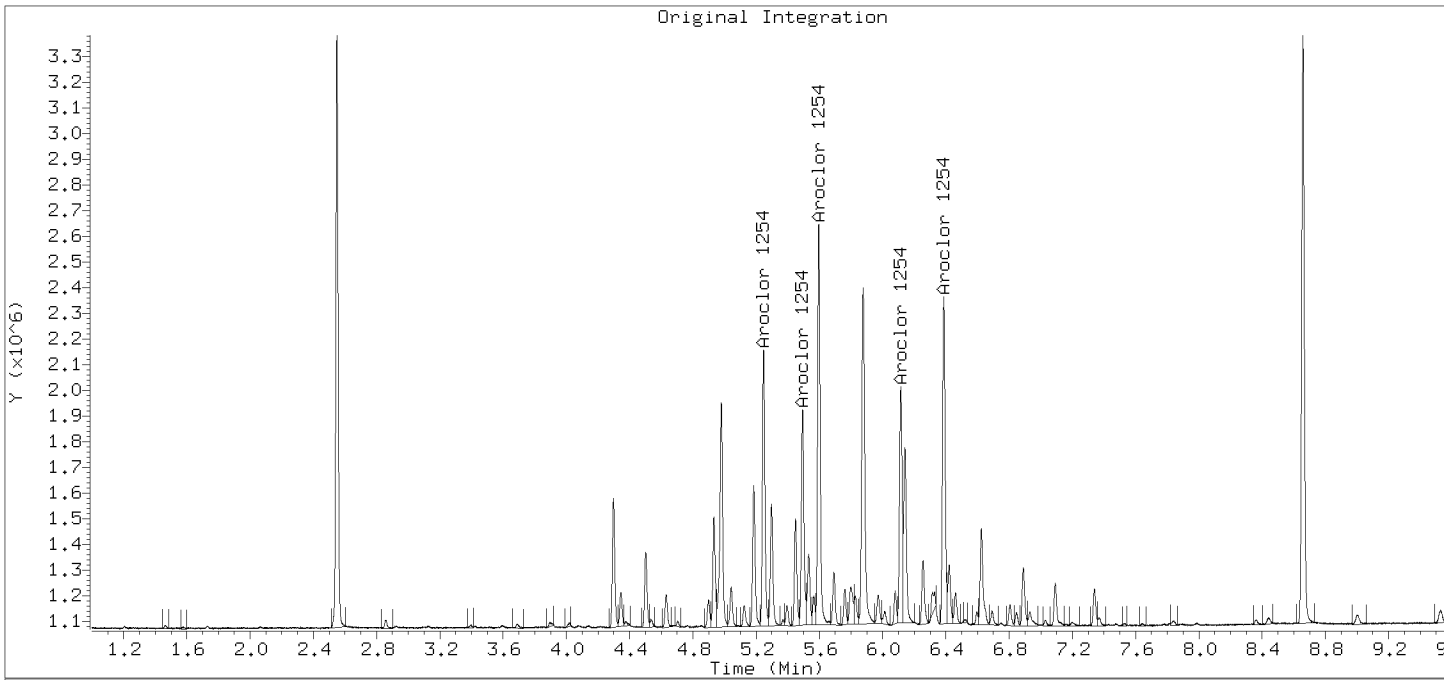
Operator: BLM

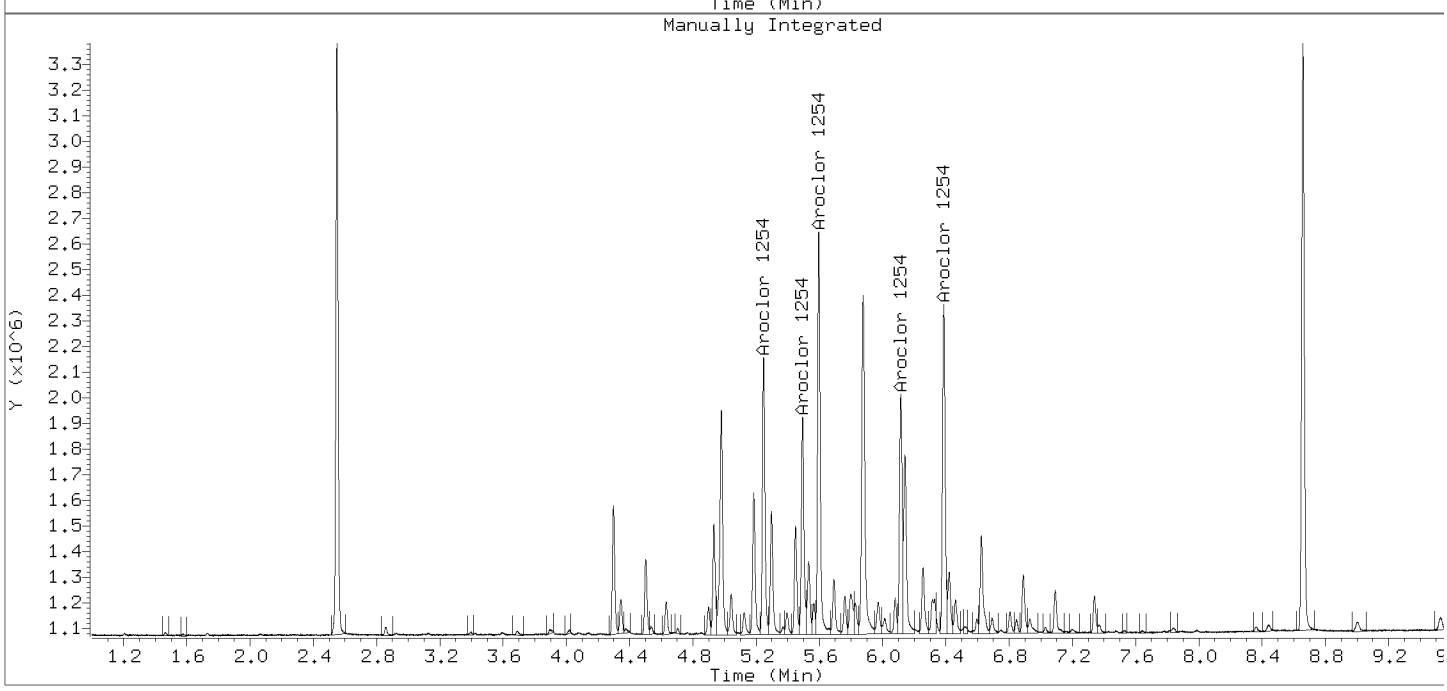
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 16:16

Client ID: 1254-CAL3C

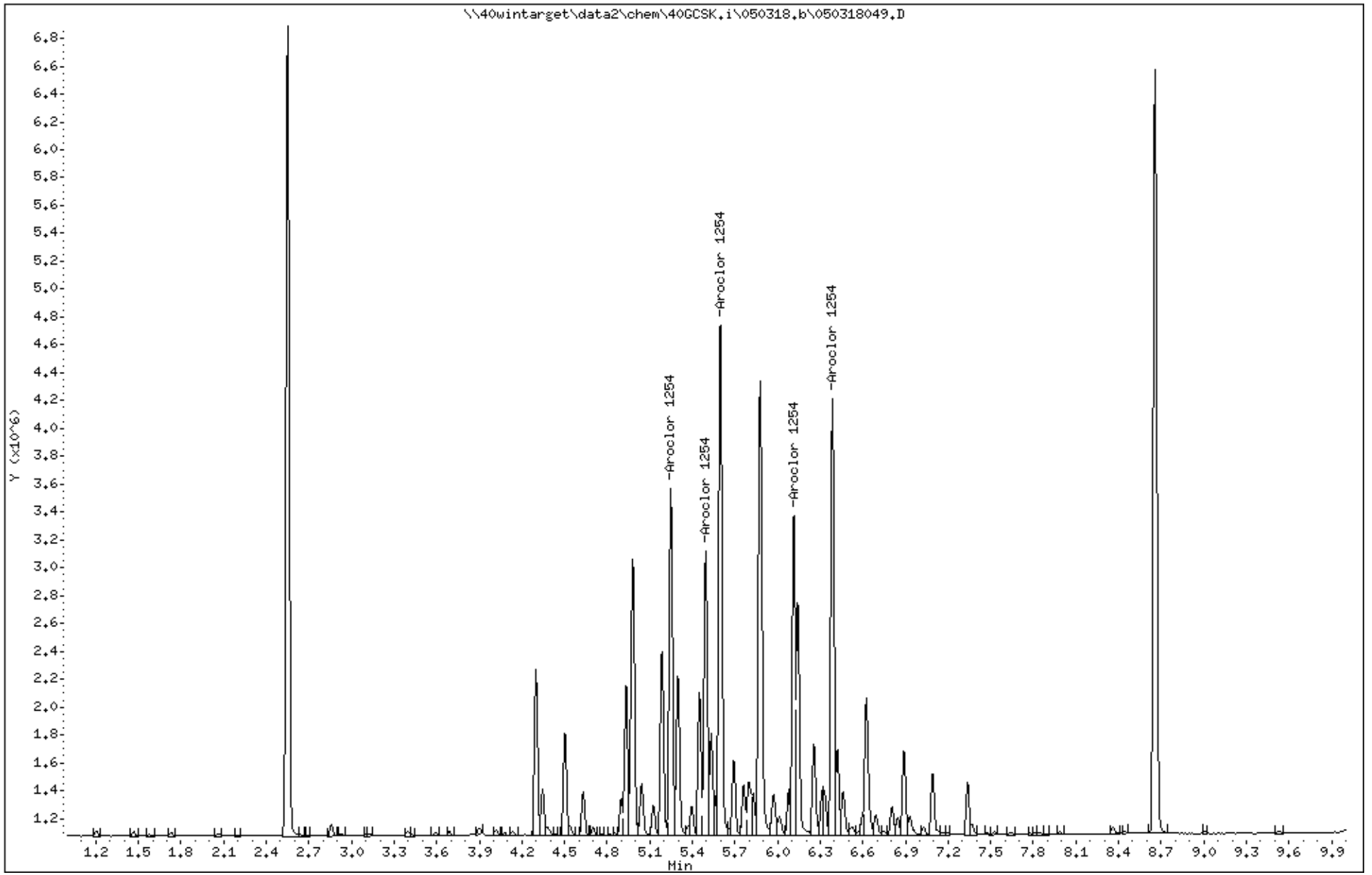
Instrument: 40GCSK.i

Sample Info: 1254-CAL3C, 185554:1

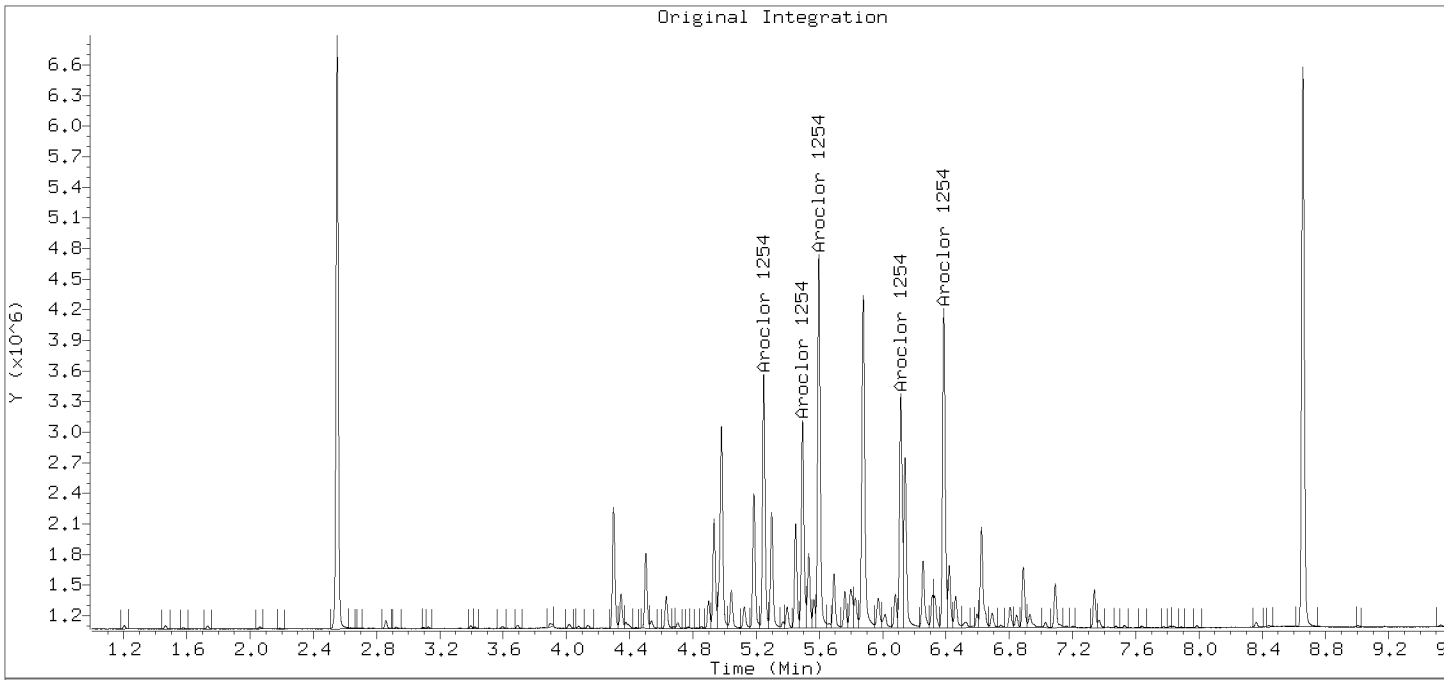
Operator: BLM

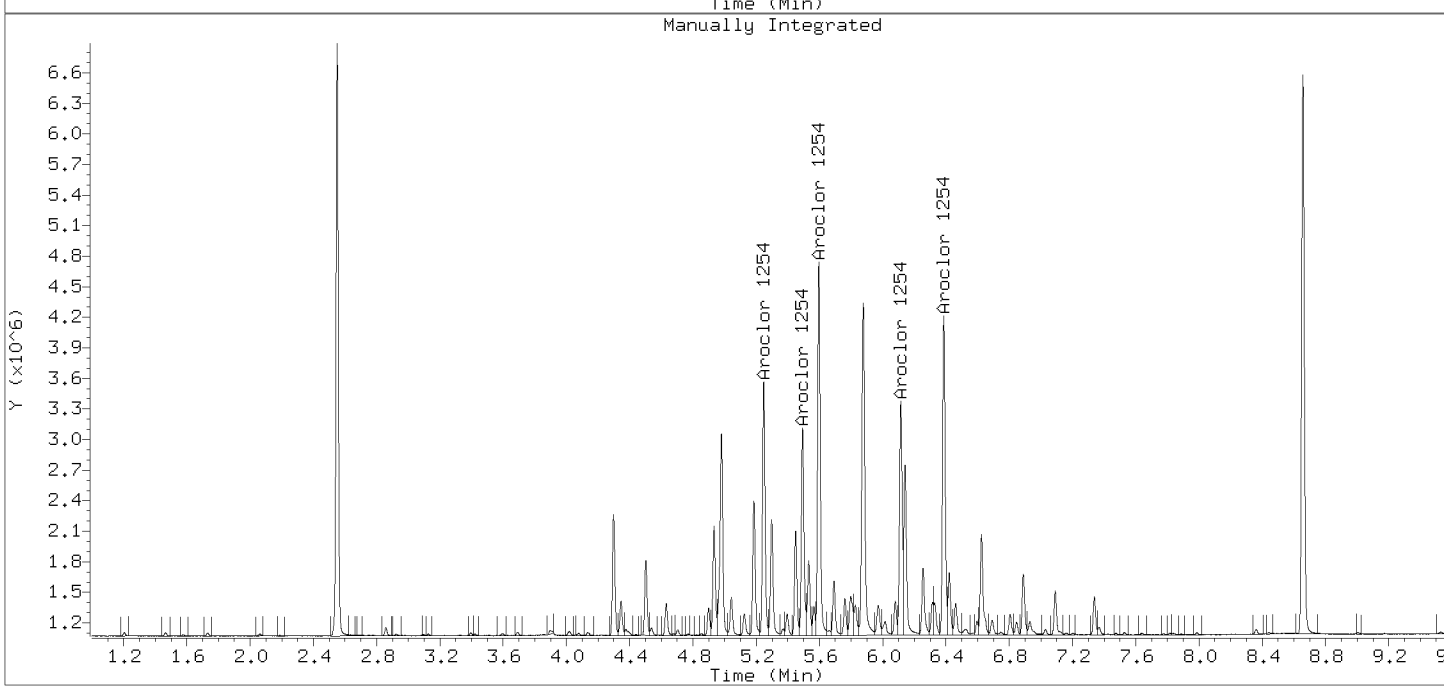
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 16:33

Client ID: 1254-CAL4C

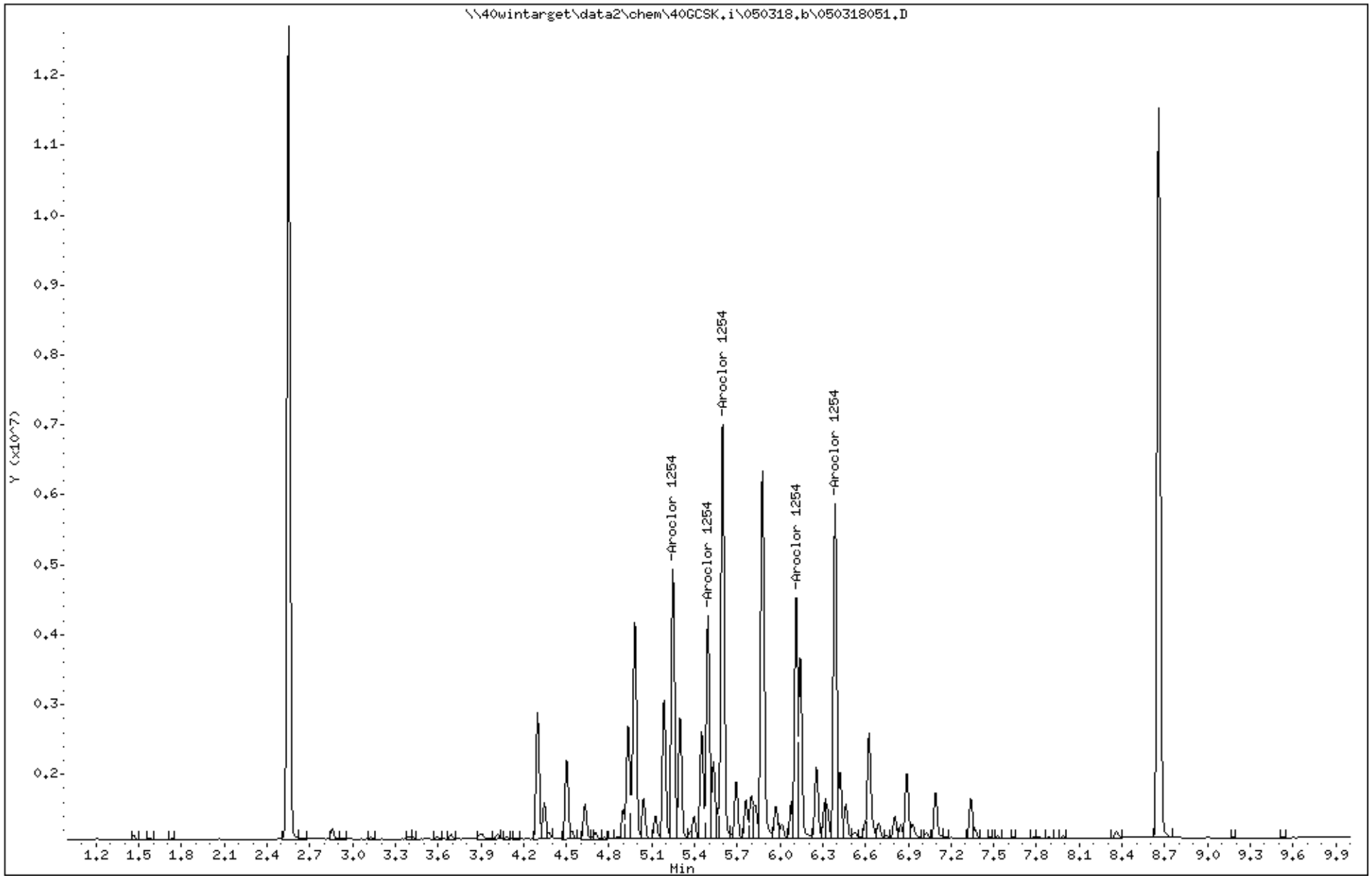
Instrument: 40GCSK.i

Sample Info: 1254-CAL4C, 185555:1

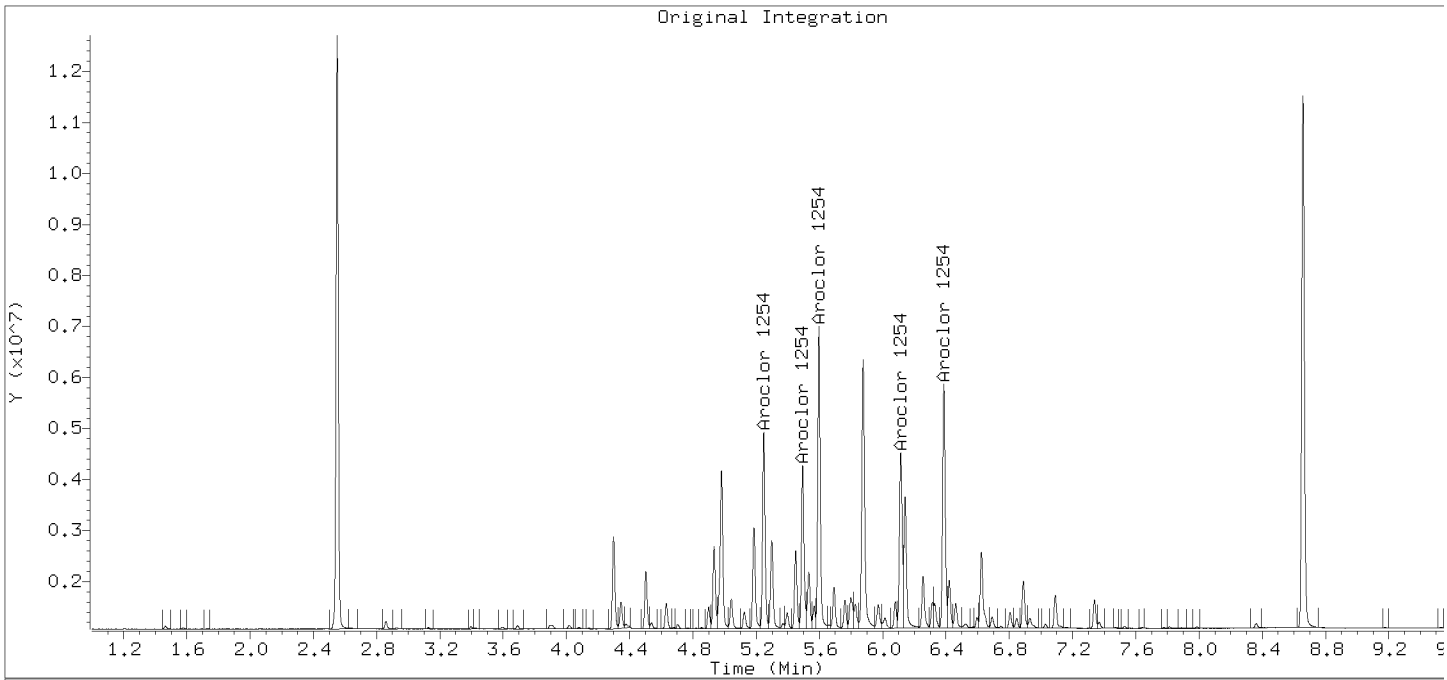
Operator: BLM

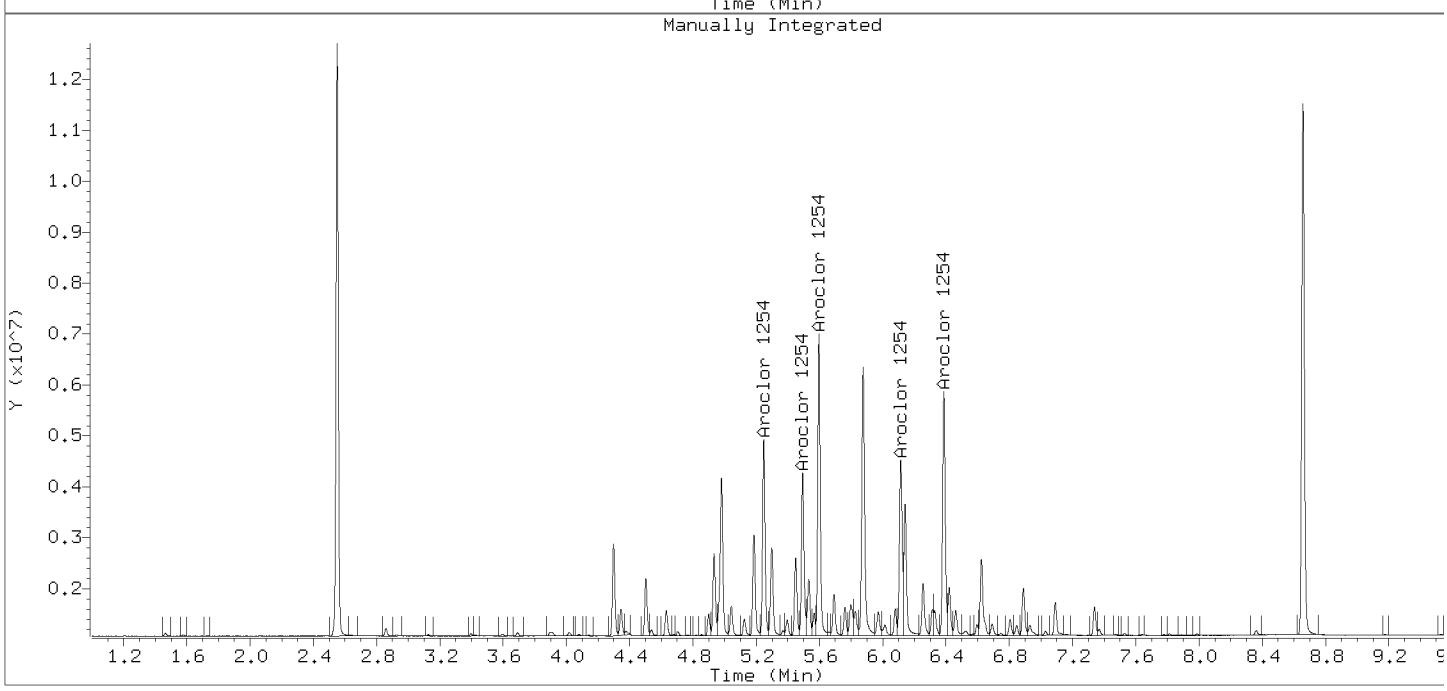
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 03-MAY-2018 16:49

Client ID: 1254-CAL5C

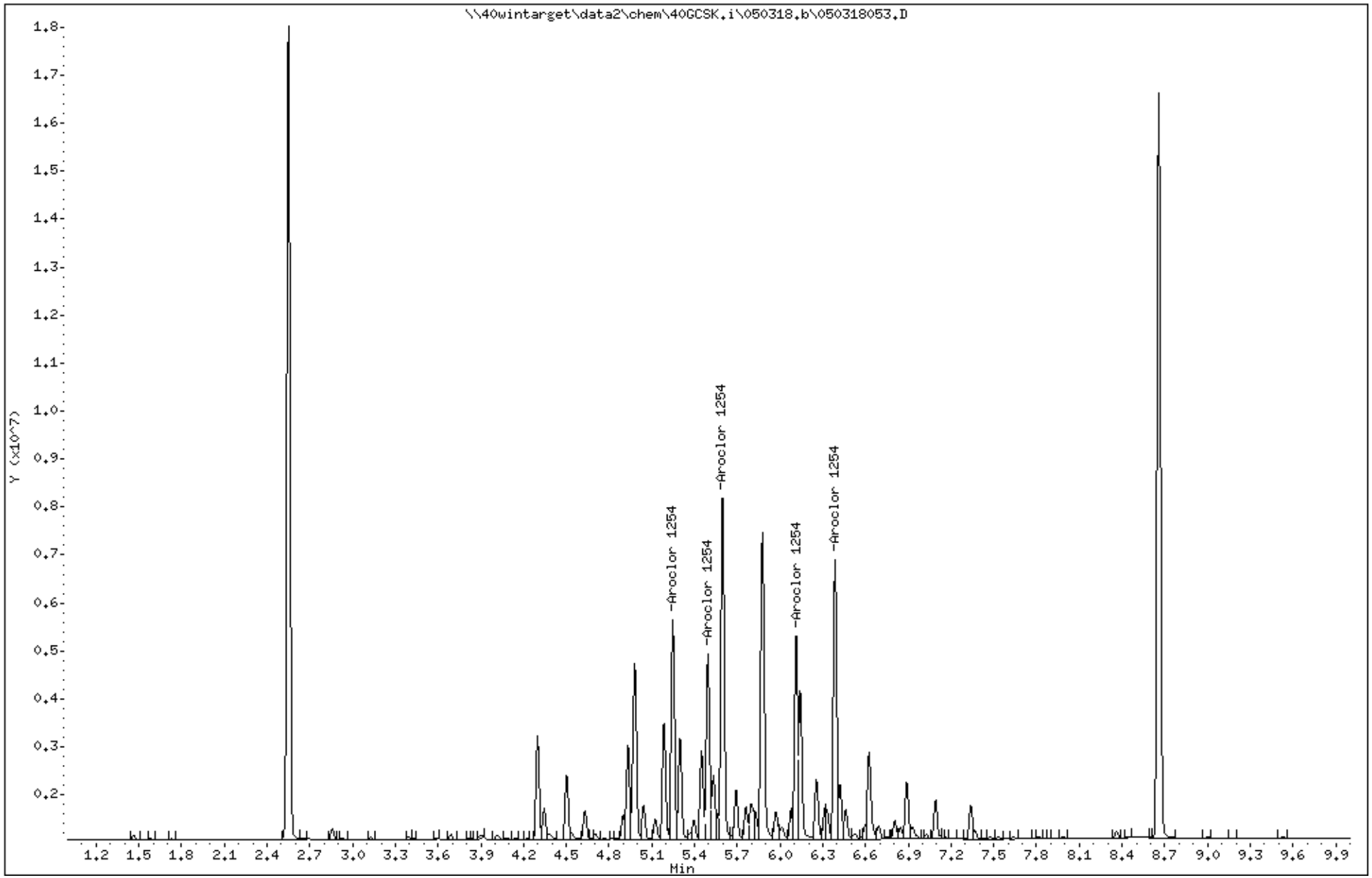
Instrument: 40GCSK.i

Sample Info: 1254-CAL5C, 185556:1

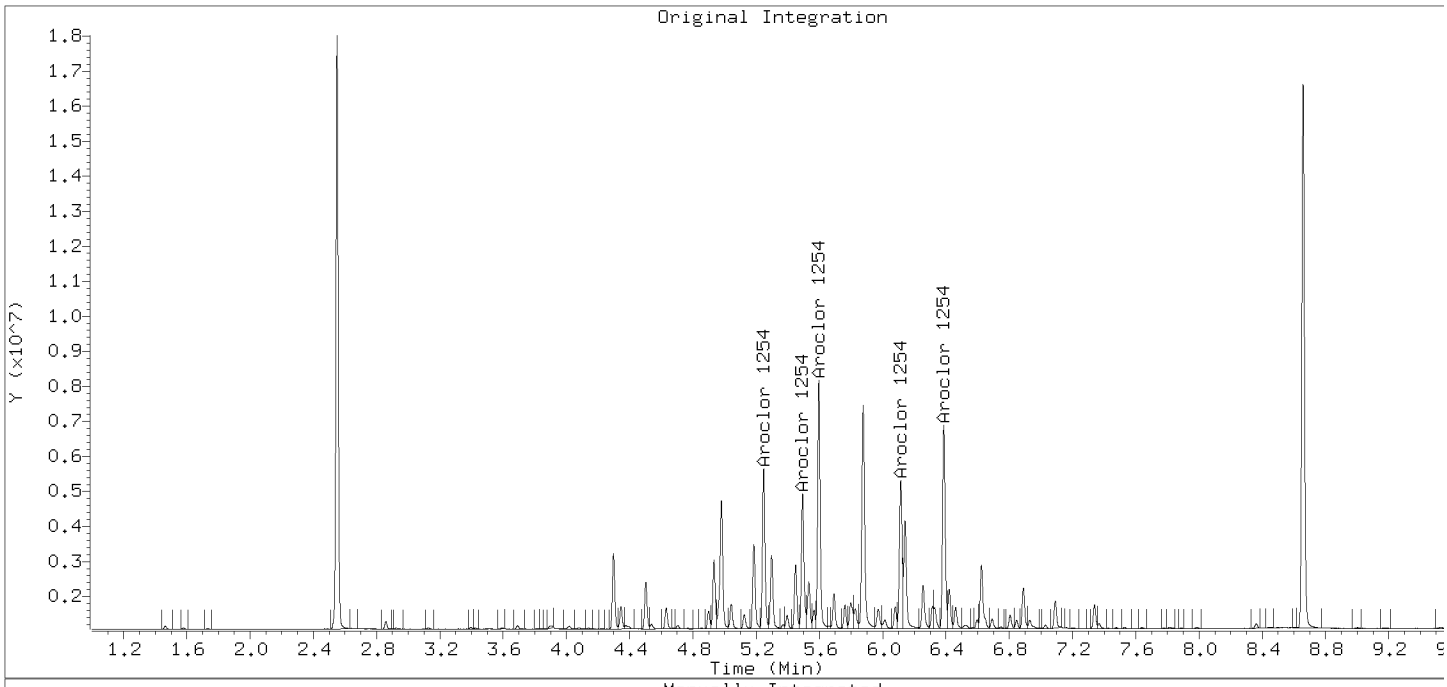
Operator: BLM

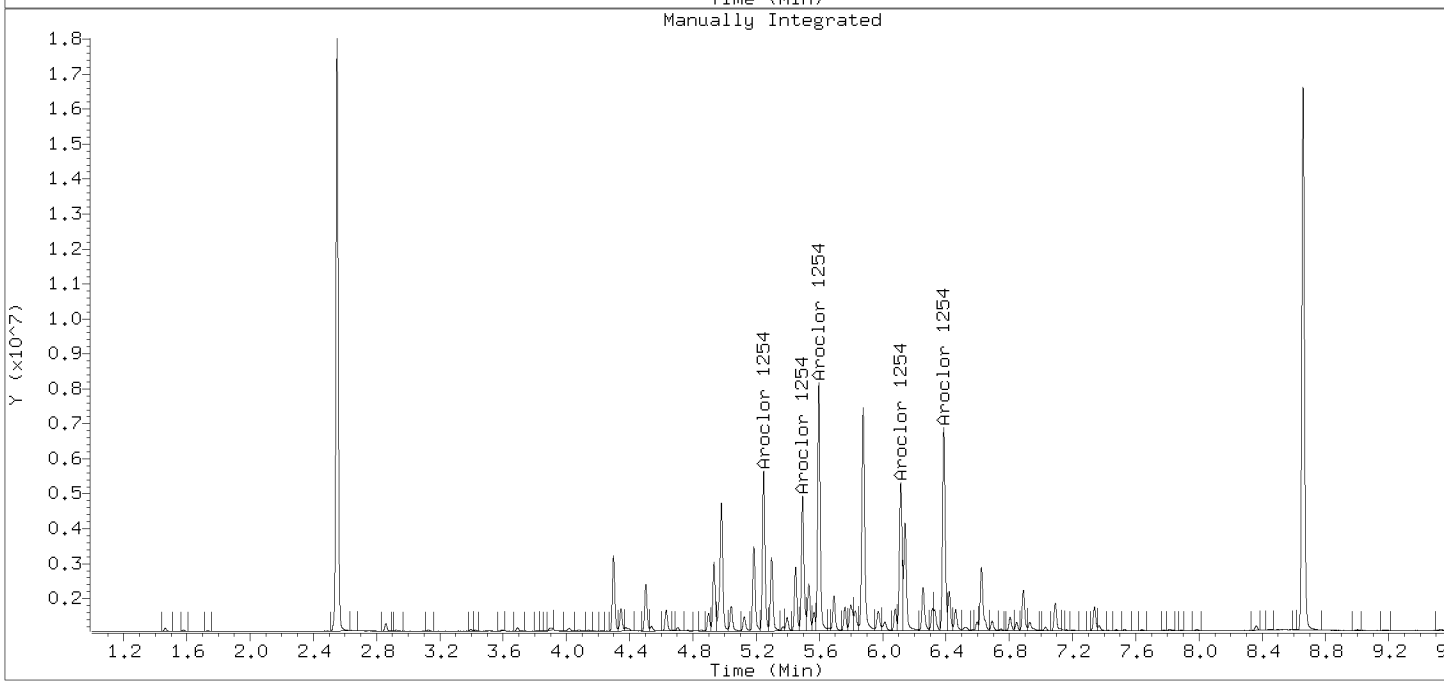
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 03-MAY-2018 17:21

Client ID: 1660-CAL1A

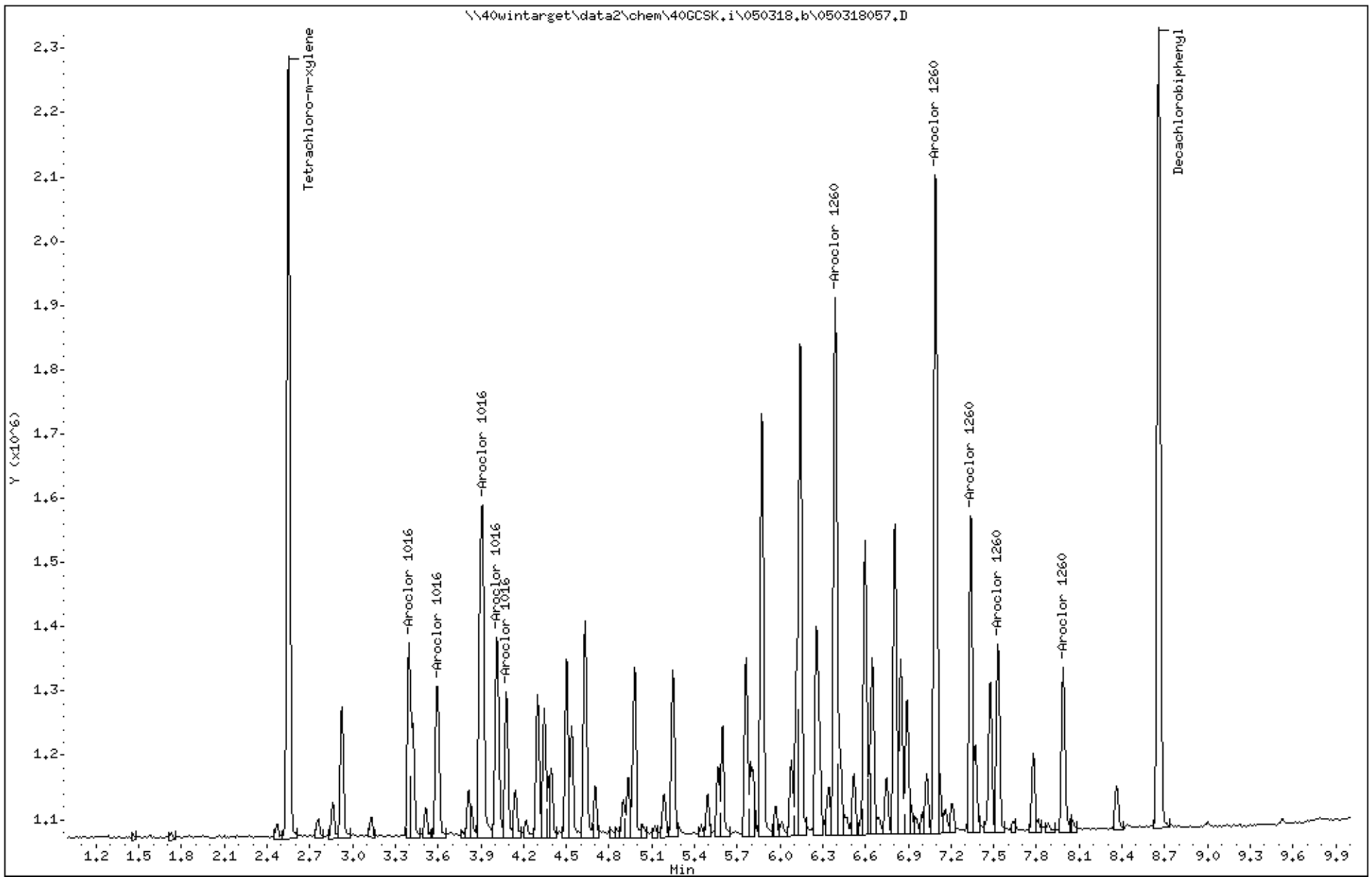
Instrument: 40GCSK.i

Sample Info: 1660-CAL1A, 188136:1

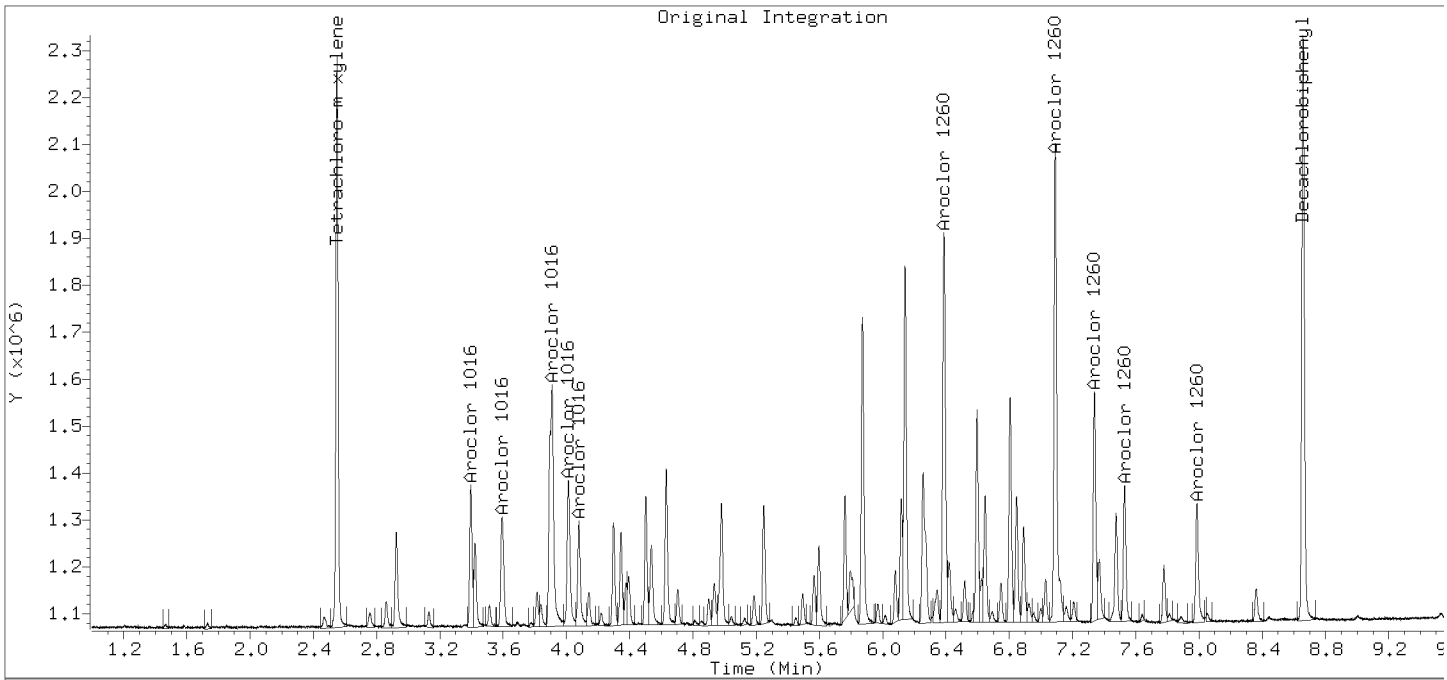
Operator: BLM

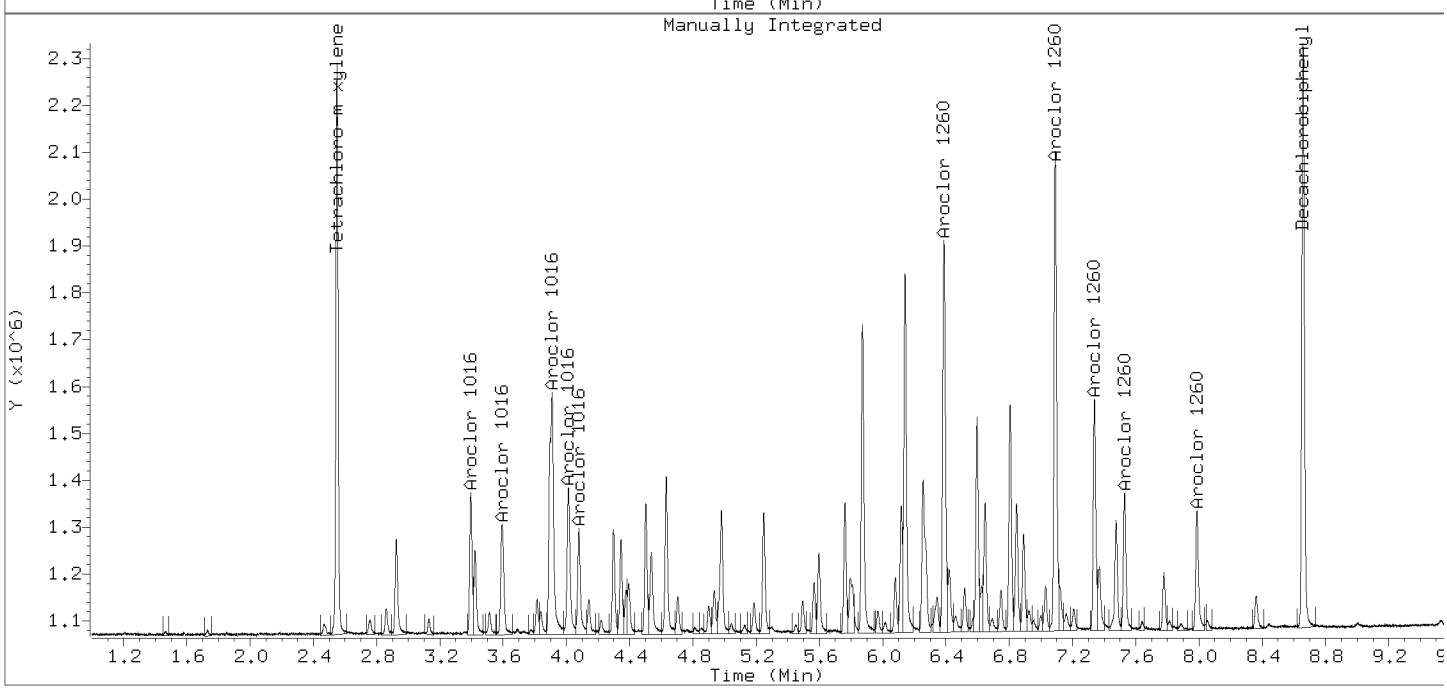
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

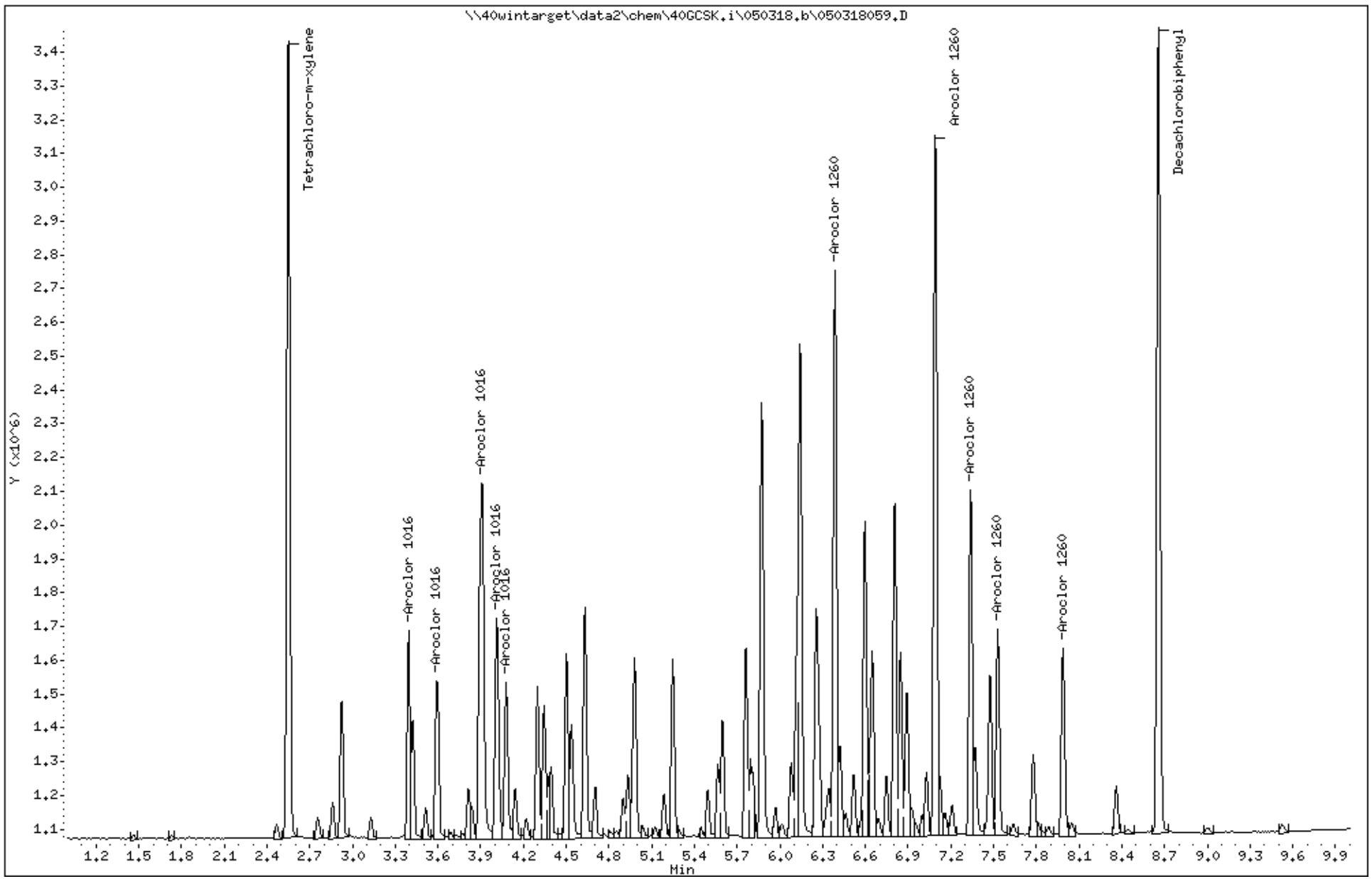
M - Compound response manually integrated.

Review Codes Legend

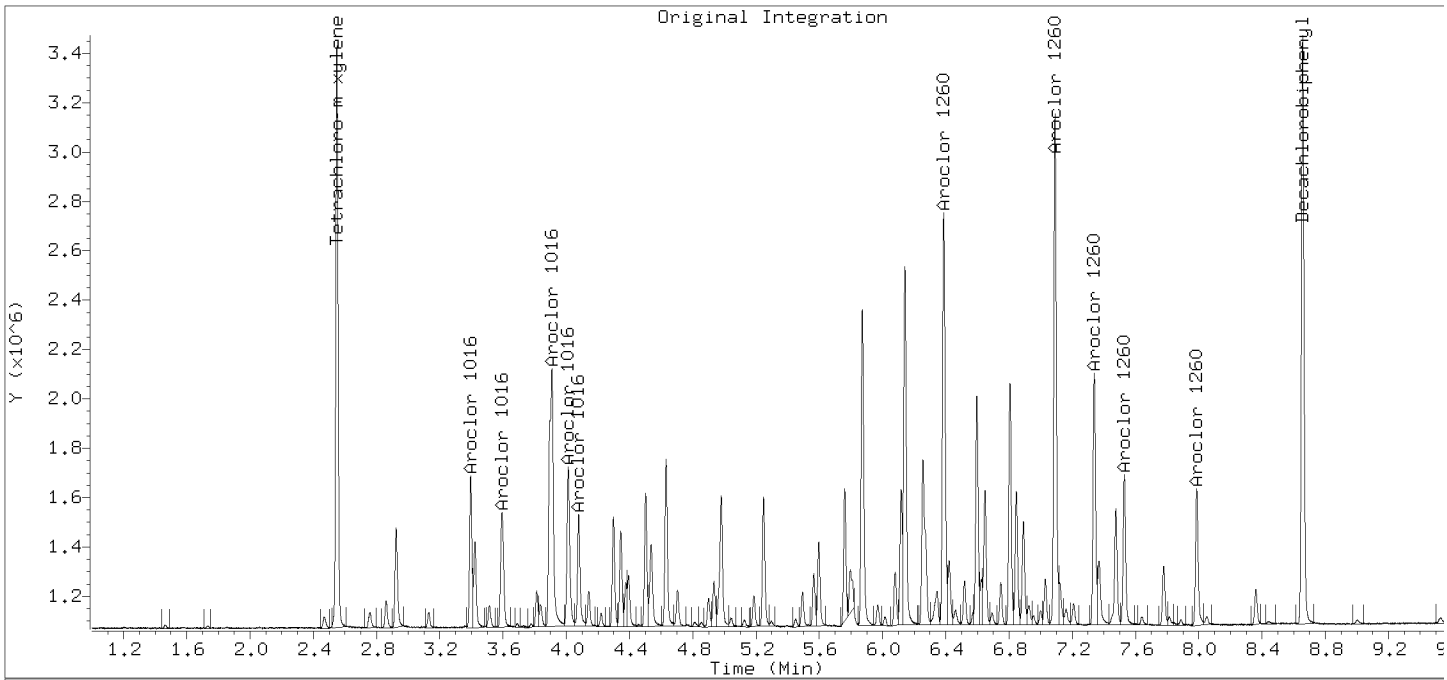
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

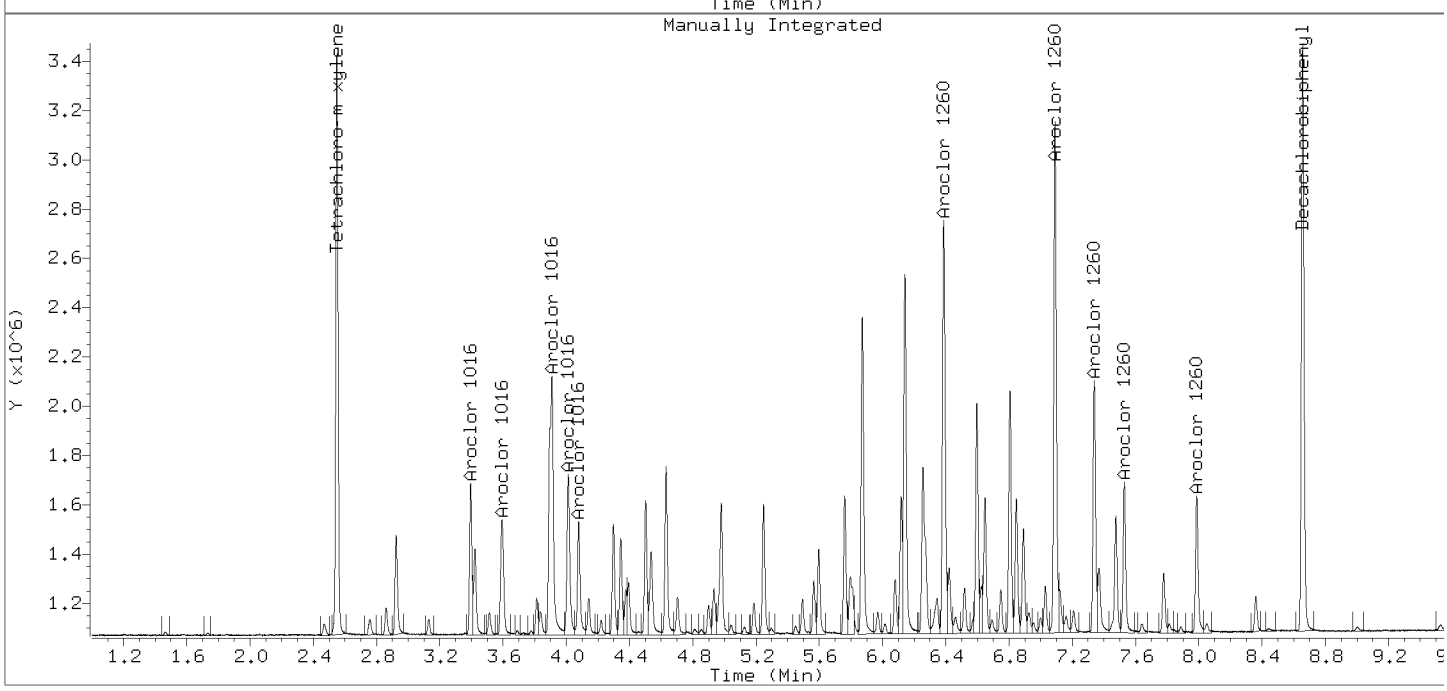
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Date : 03-MAY-2018 17:37
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

Instrument: 40GCSK.i
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

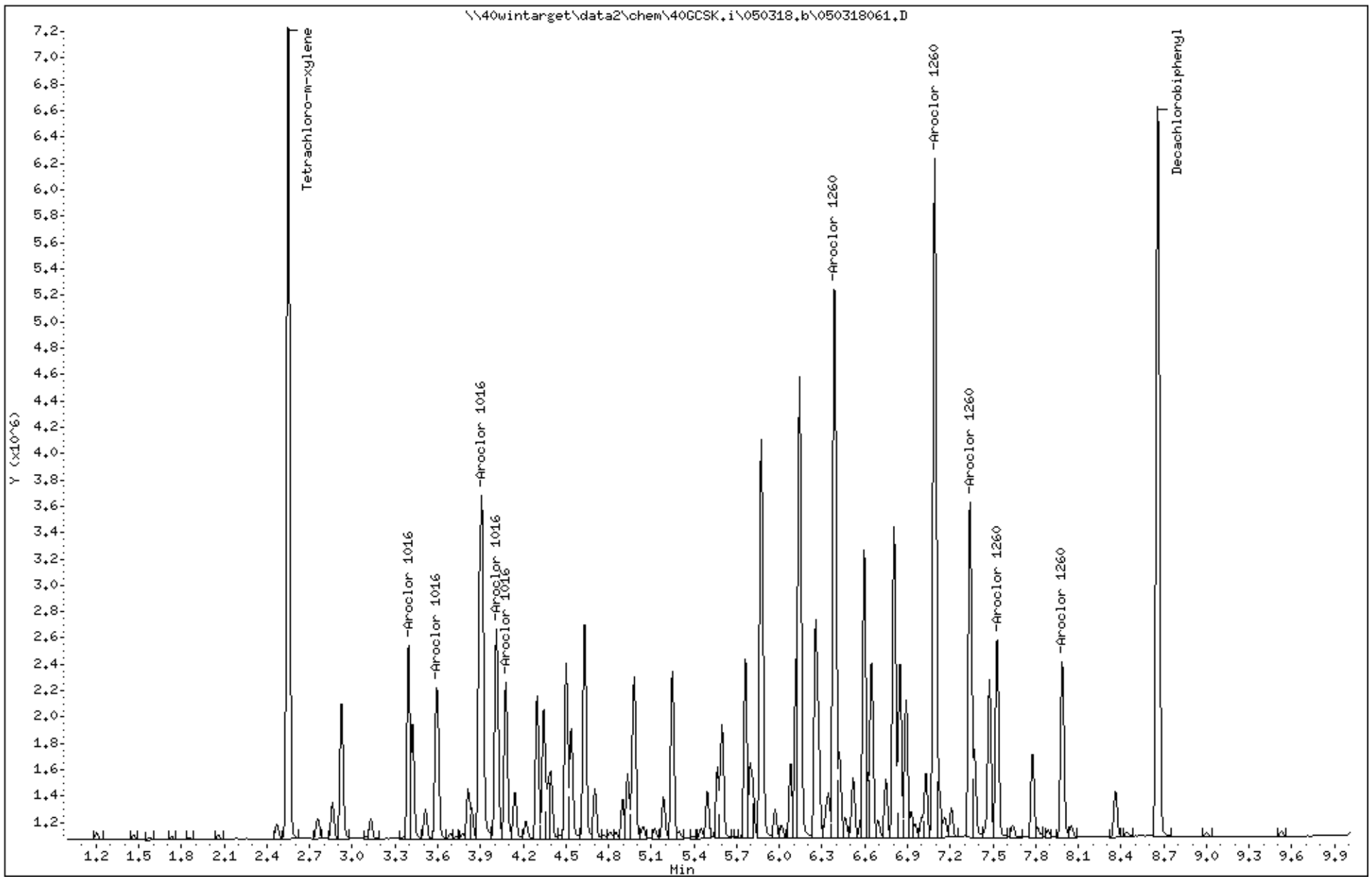
Instrument: 40GCSK.i

Sample Info: 1660-CAL3A, 185559:1

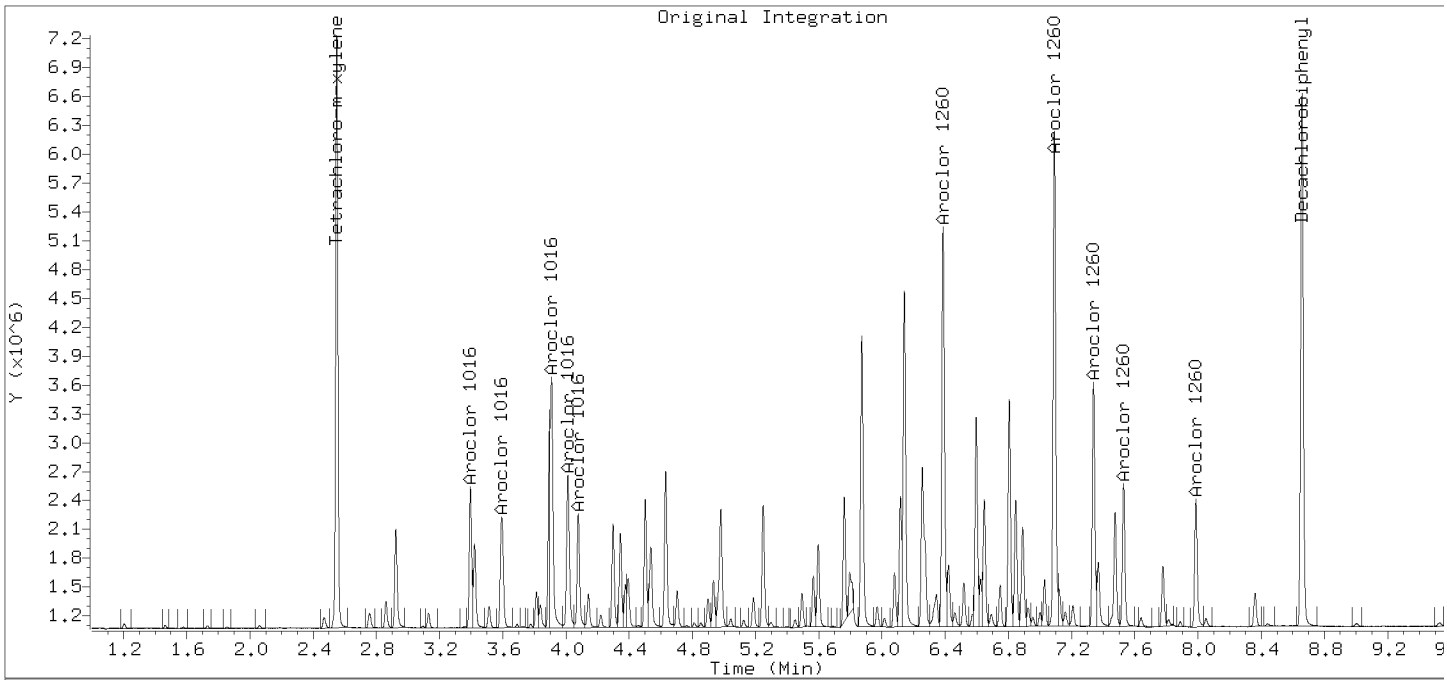
Operator: BLM

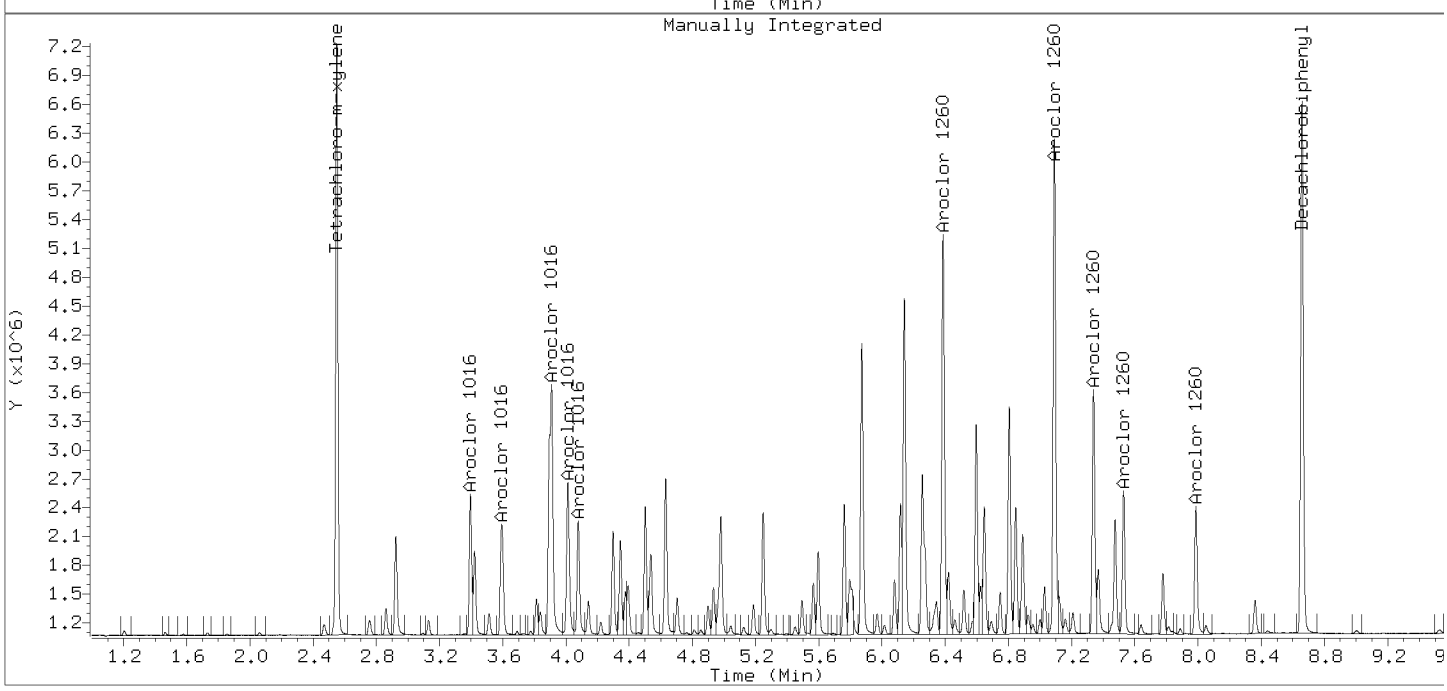
Column phase: ZB-1ms

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	

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SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

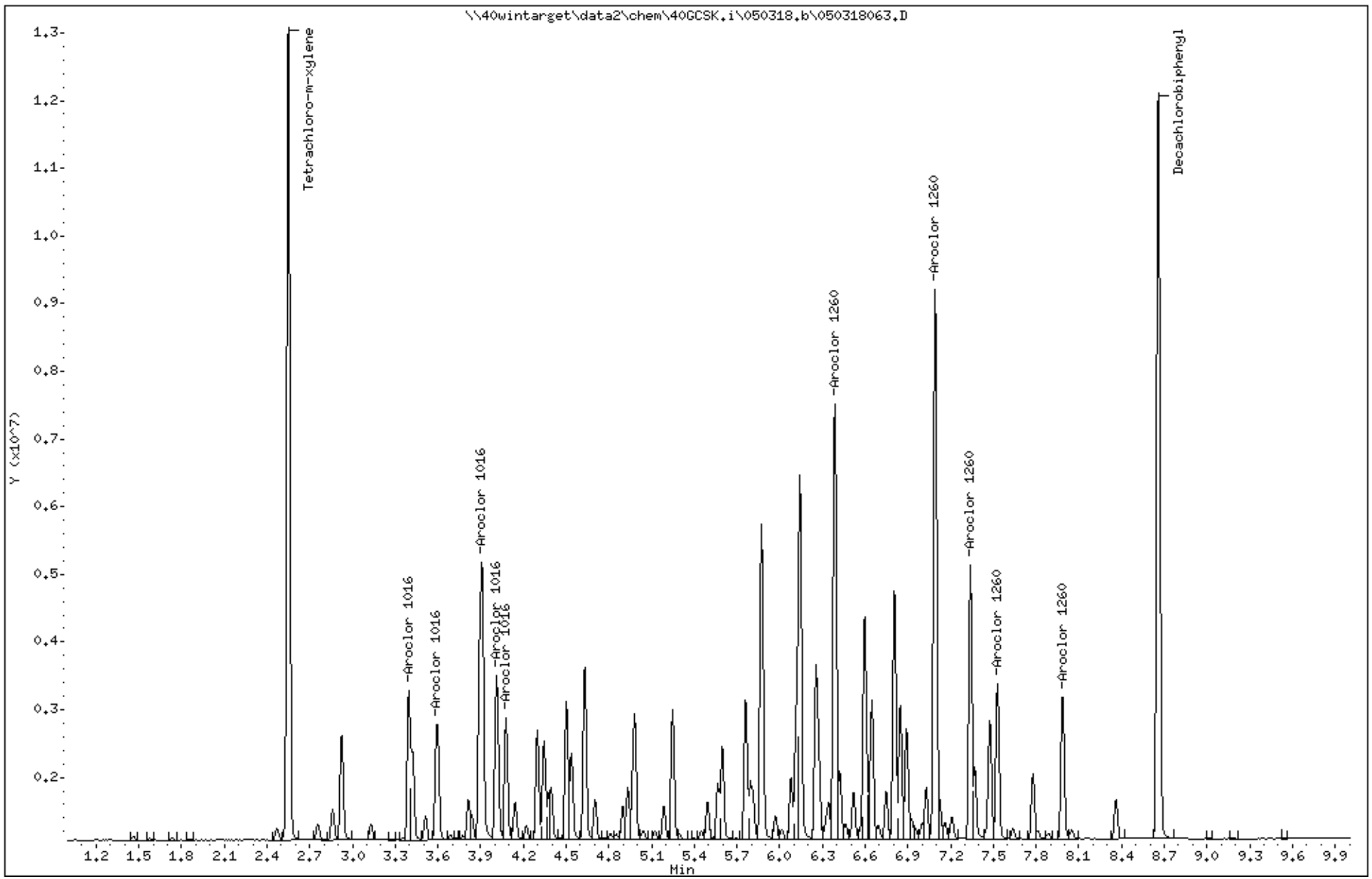
M - Compound response manually integrated.

Review Codes Legend

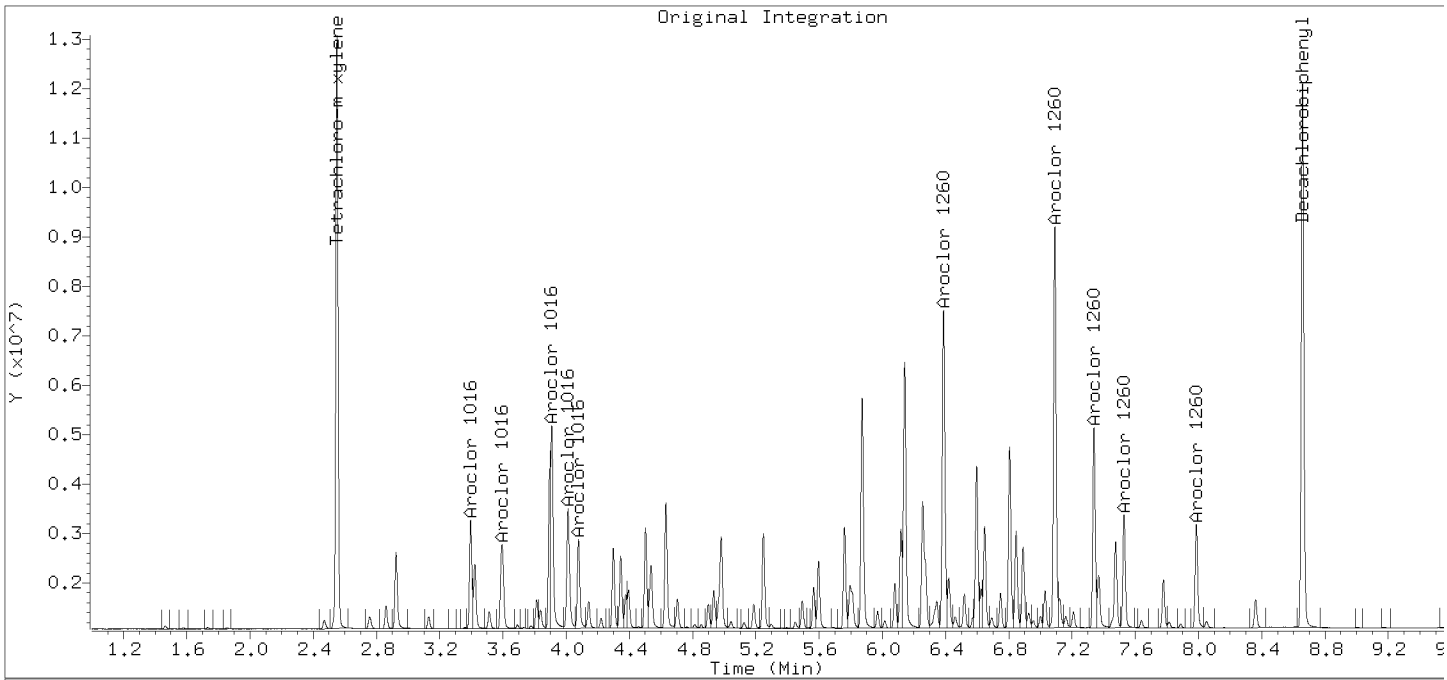
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

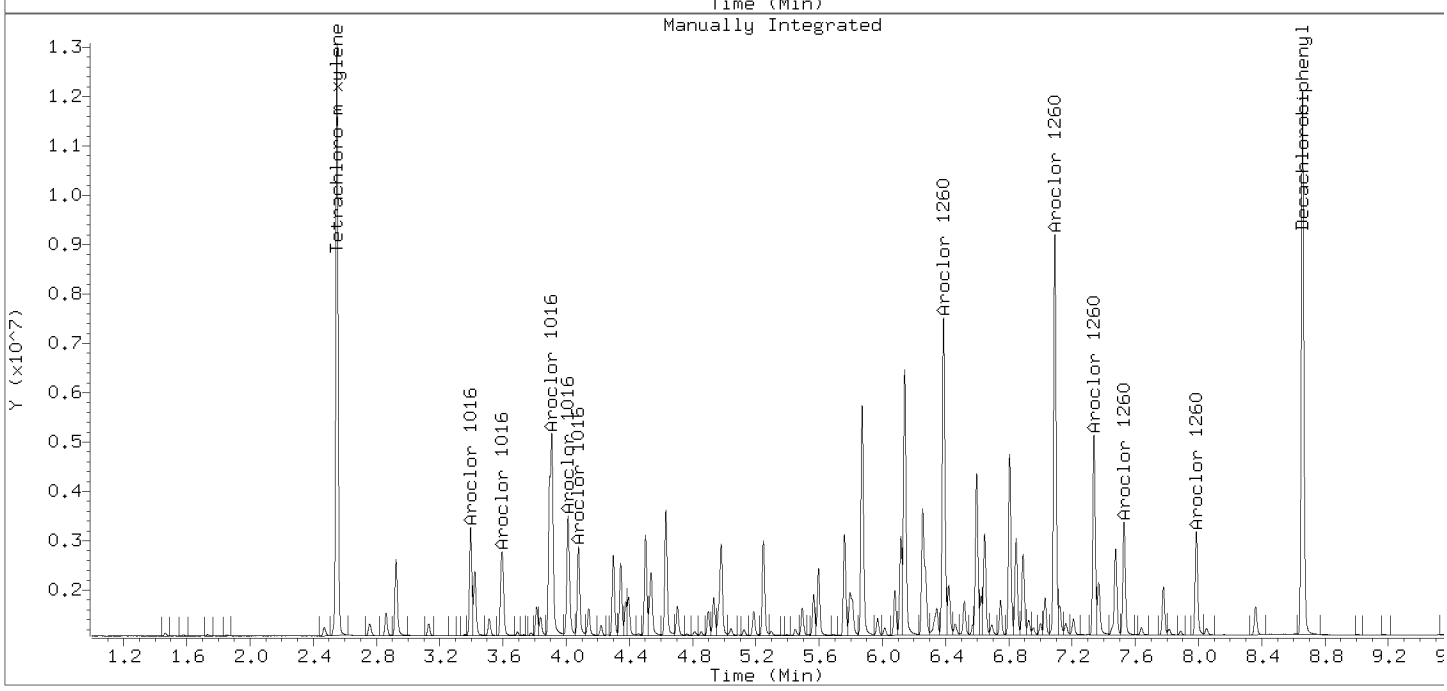
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Date : 03-MAY-2018 18:09
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318063.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:09 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Tetrachloro-m-xylene	11955960	11955960	
Decachlorobiphenyl	12598489	12598489	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	10600	11802	1.113	0.00		
1.462	94131	93130	0.989	0.04		
1.575	40028	36391	0.909	0.02		
1.729	24562	23104	0.941	0.01		
1.855	28263	25098	0.888	0.01		
2.469	252718	200899	0.795	0.13		
2.549	17835724	18075506	1.013	9.40	$ 2 Tetrachloro-m-xylene	
2.757	379493	289183	0.762	0.20		
2.860	637485	596560	0.936	0.33		
2.923	2104579	1860445	0.884	1.10		
3.131	302809	289637	0.957	0.15		
3.359	39118	32135	0.821	0.02		
3.395	2816368	2657278	0.944	1.48	5 Aroclor 1016	BA
3.422	1786177	1554575	0.870	0.94		
3.514	483430	426051	0.881	0.25		
3.594	2923969	2080952	0.712	1.54	5 Aroclor 1016	BA
3.691	116927	108092	0.924	0.06		
3.728	54082	32398	0.599	0.02		
3.777	80041	73439	0.918	0.04		
3.813	750863	739637	0.985	0.39		
3.837	532576	470190	0.883	0.28		
3.908	8886004	5003325	0.563	4.68	5 Aroclor 1016	BA
4.012	3741519	2955342	0.790	1.97	5 Aroclor 1016	BA
4.078	2529477	2241835	0.886	1.33	5 Aroclor 1016	BA
4.142	779305	673679	0.864	0.41		
4.220	304140	249707	0.821	0.16		
4.298	2129218	1925543	0.904	1.12		
4.345	1936075	1797022	0.928	1.02		
4.377	821663	847136	1.031	0.43		
4.394	1104089	978477	0.886	0.58		
4.457	66686	46067	0.691	0.03		
4.502	2636996	2453008	0.930	1.39		
4.537	2118944	1543530	0.728	1.11		
4.631	3529320	3071319	0.870	1.86		
4.704	826392	726177	0.879	0.43		
4.765	66133	42637	0.645	0.03		
4.812	126649	96930	0.765	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.854	115792	97994	0.846	0.06	
4.899	639463	597315	0.934	0.33	
4.933	1026826	921088	0.897	0.54	
4.980	3162663	2282967	0.722	1.66	
5.043	235547	163358	0.694	0.12	
5.124	185144	150351	0.812	0.09	
5.186	682483	602617	0.883	0.35	
5.248	2617724	2359652	0.901	1.38	
5.297	146755	102100	0.696	0.07	
5.394	31421	22776	0.725	0.01	
5.450	172339	157887	0.916	0.09	
5.494	731080	688598	0.942	0.38	
5.531	35946	31436	0.875	0.01	
5.565	1039490	984107	0.947	0.54	
5.596	1870163	1641153	0.878	0.98	
5.691	35131	26330	0.749	0.01	
5.761	2666143	2512418	0.942	1.40	
5.796	1979981	1063183	0.537	1.04	
5.872	6734644	5673706	0.842	3.55	
5.970	463225	408694	0.882	0.24	
6.016	220245	186092	0.845	0.11	
6.080	1166464	1087303	0.932	0.61	
6.117	2446662	2521575	1.031	1.29	
6.141	7792763	6601966	0.847	4.10	
6.256	4902469	3132484	0.639	2.58	
6.344	1142155	658658	0.577	0.60	
6.387	9544191	7809544	0.818	5.03	8 Aroclor 1260
6.421	1431136	1226841	0.857	0.75	
6.462	382444	280168	0.733	0.20	
6.519	978695	837798	0.856	0.51	
6.573	201013	256883	1.278	0.10	
6.596	4507380	4003546	0.888	2.37	
6.624	900416	950861	1.056	0.47	
6.648	2883370	2487636	0.863	1.52	
6.691	344707	257431	0.747	0.18	
6.748	939773	853268	0.908	0.49	
6.805	4919441	4479601	0.911	2.59	
6.847	2737725	2392698	0.874	1.44	
6.890	2344515	2009215	0.857	1.23	
6.926	443838	365831	0.824	0.23	
6.955	227292	189491	0.834	0.11	
6.999	315762	293589	0.930	0.16	
7.029	1026744	907611	0.884	0.54	
7.091	11310003	10026142	0.886	5.96	8 Aroclor 1260
7.121	787149	722978	0.918	0.41	
7.161	384747	282521	0.734	0.20	
7.208	508220	398074	0.783	0.26	
7.307	22840	24338	1.066	0.01	
7.338	5484641	4898135	0.893	2.89	8 Aroclor 1260
7.368	1588553	1279962	0.806	0.83	
7.476	2618792	2116651	0.808	1.38	
7.529	3228578	2739776	0.849	1.70	8 Aroclor 1260
7.639	248924	187542	0.753	0.13	
7.778	1319068	1195900	0.907	0.69	
7.814	212816	155518	0.731	0.11	
7.887	133066	111601	0.839	0.07	
7.987	2993726	2544338	0.850	1.57	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.051	217804	169994	0.780	0.11	
8.361	835944	744828	0.891	0.44	
8.658	18449537	16077866	0.871	10.14	$ 12 Decachlorobiphenyl
9.173	25312	18752	0.741	0.01	
9.527	23908	13331	0.558	0.01	
	189661336	162314303		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	17835724	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	2816368	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	2923969	1.00000	0.92	0.00- 20.00	103.82	BA
3.908	3.909	-0.001	8886004	1.00000	0.94	0.00- 20.00	315.51	BA
4.011	4.011	0.000	3741518	1.00000	0.93	0.00- 20.00	132.85	BA
4.078	4.078	0.000	2529476	1.00000	0.94	0.00- 20.00	89.81	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	9544191	1.00000	0.95	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	11310002	1.00000	0.96	0.00- 20.00	118.50	BA
7.338	7.338	0.000	5484640	1.00000	0.97	0.00- 20.00	57.47	BA
7.528	7.529	-0.001	3228577	1.00000	0.94	0.00- 20.00	33.83	BA
7.986	7.987	-0.001	2993726	1.00000	0.94	0.00- 20.00	31.37	BA
Average of Peak Amounts =					0.95200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	18449537	0.15000	0.14			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D

Date : 03-MAY-2018 18:26

Client ID: 1660-CAL5A

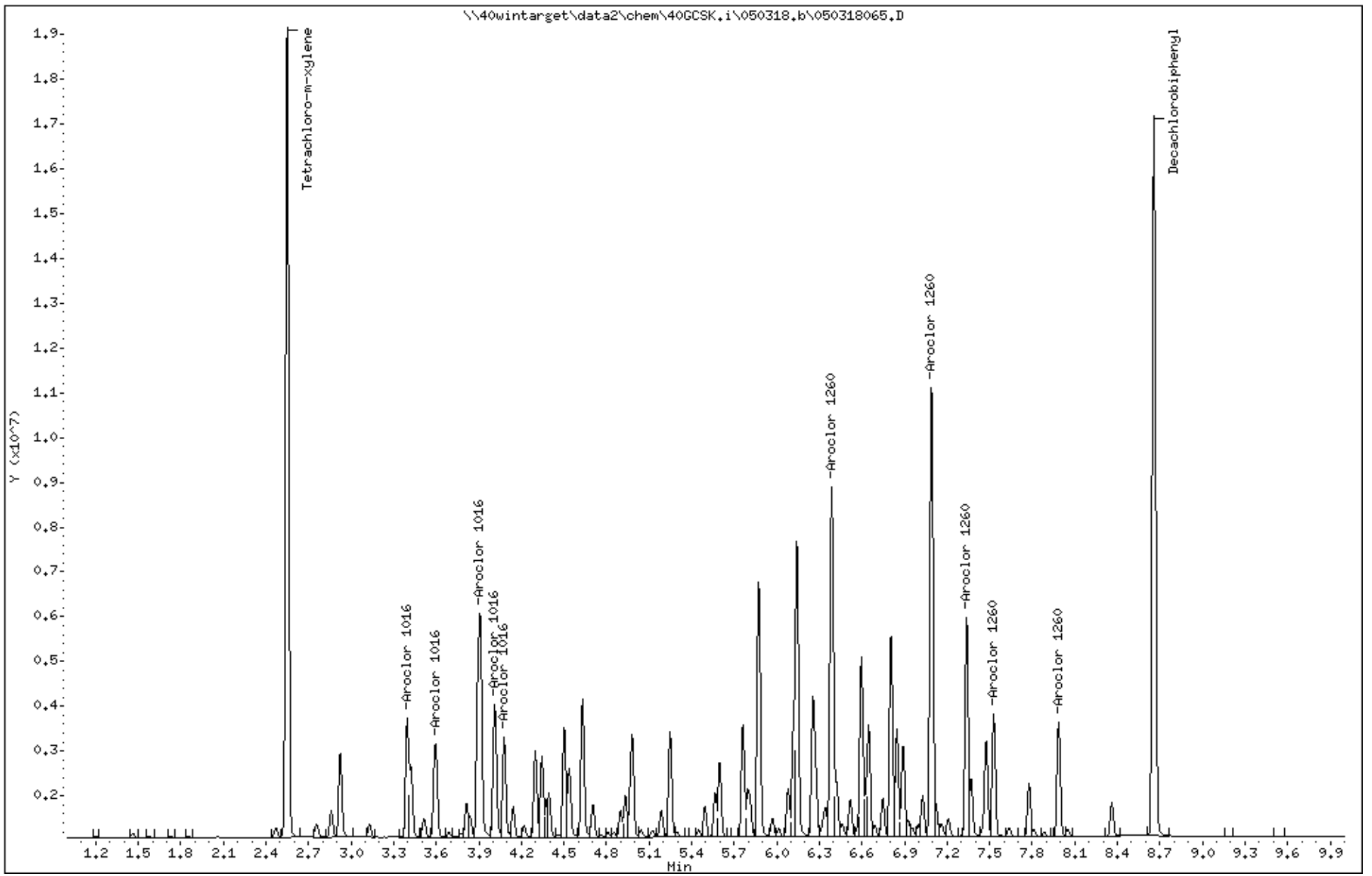
Instrument: 40GCSK.i

Sample Info: 1660-CAL5A, 185561:1

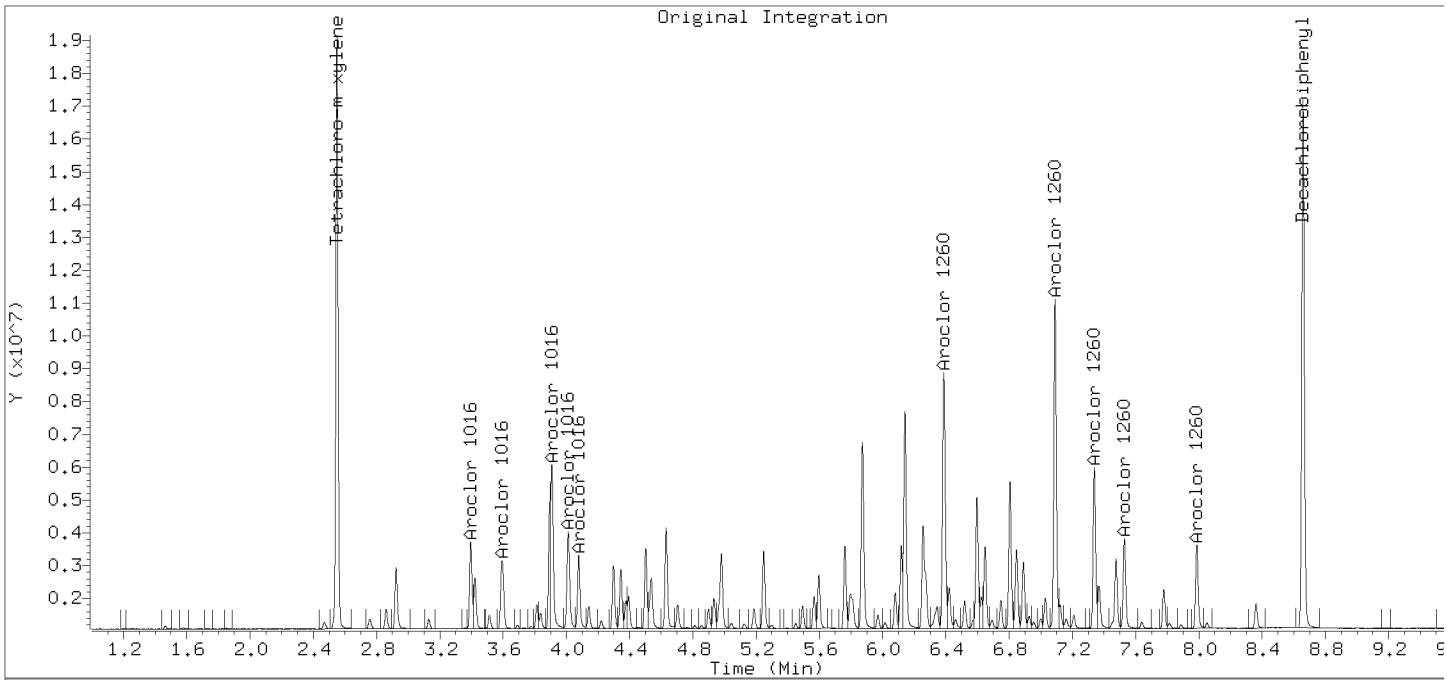
Operator: BLM

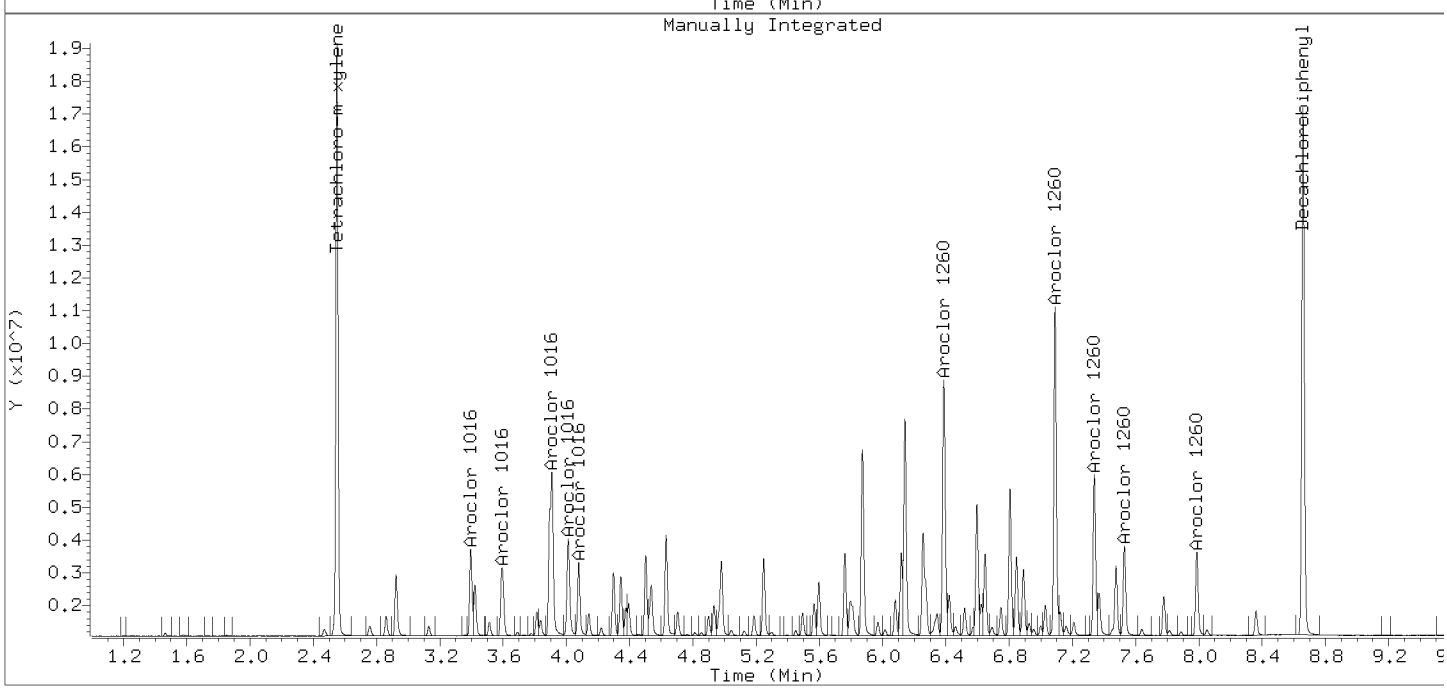
Column phase: ZB-1ms

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: 40GCSJ
Calibration Date: 3/6/2018

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.109383	9.383	20	Pass
AR1242-CAL1	.1	0.108828	8.828	20	Pass
AR1248-CAL1	.1	0.106694	6.694	20	Pass
AR1254-CAL1	.1	0.10796	7.96	20	Pass
AR1016-CAL1	.1	0.109056	9.056	20	Pass
AR1260-CAL1	.1	0.10731	7.31	20	Pass

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.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:11

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618070.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1074308.00	3.1742
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	558458.000	1.9376
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1446642.00	4.5763
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1114194.00	0.7619
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3446964.00	5.8846
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106438520.	-2.8491
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119469080.	-3.1031

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

SAMPLE NO.

10757932ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:27

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618072.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2574948.00	1.6481
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2587724.00	2.6861
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7162442.00	0.6462
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3109342.00	2.2294
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2082504.00	1.6973
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	100680260.	-8.1049
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	117472720.	-4.7223

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

SAMPLE NO.

10757923ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:44

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618074.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2416006.00	3.1171
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4272006.00	2.9323
Aroclor 1248	3	Averaged	4.813	4.778	4.846	2030080.20	2145142.00	5.6678
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5257174.00	4.3619
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3781714.00	5.3829
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103468660.	-5.5598
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	117995220.	-4.2985

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

SAMPLE NO.

10757930ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:00

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618076.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	4908596.00	-6.2395
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4023996.00	-6.4416
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7114120.00	-8.3948
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4559312.00	-6.3735
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6351522.00	-2.3910
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	103892160.	-5.1733
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	119128800.	-3.3791

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

SAMPLE NO.

10757911ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:16

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618078.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3151828.00	2.3045
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3167044.00	2.1956
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9017370.00	1.7557
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3853260.00	1.9321
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2572474.00	-1.1860
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	8433522.00	-4.8388
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	10338502.0	3.2366
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4863954.00	1.7606
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2985660.00	2.4201
Aroclor 1260	5	Averaged	7.901	7.867	7.935	2638735.95	2816390.00	6.7325
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	104964120.	-4.1948
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118641800.	-3.7741

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

SAMPLE NO.

10924579CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 14:10

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 042518.B\042518004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2530596.00	8.0079
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4398666.00	5.9841
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2206704.00	8.7003
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5457508.00	8.3388
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3885012.00	8.2614
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	117438800.	7.1913
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	125746760.	1.9884

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

SAMPLE NO.

10924570CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 17:20

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 042518.B\042518016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5620066.00	7.3505
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4664408.00	8.4480
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	8393614.00	8.0807
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	5331866.00	9.4910
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	7144636.00	9.7975
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	119497680.	9.0705
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	127691700.	3.5659

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

SAMPLE NO.

10929577CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 20:30

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 042518.B\042518028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3206322.00	4.0733
Aroclor 1016	2	Averaged	3.511	3.478	3.546	3099002.40	3190680.00	2.9583
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9350570.00	5.5156
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3977920.00	5.2298
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2689516.00	3.3098
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9427436.00	6.3762
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	10822446.0	8.0691
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5192478.00	8.6337
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3141170.00	7.7547
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2873146.00	8.8834
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	119173260.	8.7744
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	125773600.	2.0102

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

SAMPLE NO.

10929576CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 22:21

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 042518.B\042518035.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.805	1.77	1.838	1041256.70	1030802.00	-1.0040
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	525572.000	-4.0652
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1419288.00	2.5989
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1104446.00	-0.1197
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3390106.00	4.1380
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	115082560.	5.0407
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120420220.	-2.3317

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

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.: 40158013

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.

10983580CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 20:27

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

Lab File ID: 050718.B\050718028.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.395	3.361	3.429	3058740.35	2900200.00	-5.1832
Aroclor 1016	2	Averaged	3.593	3.558	3.626	3170920.60	2916590.00	-8.0207
Aroclor 1016	3	Averaged	3.907	3.875	3.943	9396963.20	8651454.00	-7.9335
Aroclor 1016	4	Averaged	4.01	3.977	4.045	4020815.35	3683440.00	-8.3907
Aroclor 1016	5	Averaged	4.076	4.044	4.112	2697941.65	2468564.00	-8.5019
Aroclor 1260	1	Averaged	6.385	6.353	6.421	10009982.0	9189518.00	-8.1965
Aroclor 1260	2	Averaged	7.089	7.056	7.124	11769278.7	10724886.0	-8.8739
Aroclor 1260	3	Averaged	7.337	7.304	7.372	5656294.05	5292272.00	-6.4357
Aroclor 1260	4	Averaged	7.527	7.495	7.563	3418830.60	3090922.00	-9.5913
Aroclor 1260	5	Averaged	7.984	7.953	8.021	3167096.35	2919082.00	-7.8310
Decachlorobiphenyl (S)		Averaged	8.655	8.623	8.691	133190612.	120651140.	-9.4147
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	110234300.	-8.4747

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

SAMPLE NO.

10983582CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 23:37

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

Lab File ID: 050718.B\050718040.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.853	1.819	1.887	990400.050	927736.000	-6.3271
Aroclor 1221	2	Averaged	2.471	2.437	2.505	527183.800	489430.000	-7.1614
Aroclor 1221	3	Averaged	2.757	2.724	2.792	1386989.95	1304902.00	-5.9184
Aroclor 1221	4	Averaged	2.86	2.826	2.894	1103515.20	1010210.00	-8.4553
Aroclor 1221	5	Averaged	2.923	2.889	2.957	3343089.15	3166268.00	-5.2892
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	117674280.	-11.6497
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	109544300.	-9.0476

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

SAMPLE NO.

10985972CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 02:47

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

Lab File ID: 050718.B\050718052.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.924	2.888	2.956	2694578.00	2660126.00	-1.2786
Aroclor 1232	2	Averaged	3.593	3.558	3.626	1418110.00	1387436.00	-2.1630
Aroclor 1232	3	Averaged	3.909	3.874	3.942	4136332.00	4105940.00	-0.7348
Aroclor 1232	4	Averaged	4.012	3.977	4.045	1788600.00	1752570.00	-2.0144
Aroclor 1232	5	Averaged	4.077	4.044	4.112	1171600.00	1158478.00	-1.1200
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	122278020.	-8.1932
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	113931080.	-5.4053

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

SAMPLE NO.

10985971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 05:57

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

Lab File ID: 050718.B\050718064.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.395	3.362	3.43	2420361.20	2523242.00	4.2506
Aroclor 1242	2	Averaged	3.593	3.558	3.626	2461220.20	2512572.00	2.0864
Aroclor 1242	3	Averaged	3.908	3.875	3.943	7255531.45	7414610.00	2.1925
Aroclor 1242	4	Averaged	4.011	3.977	4.045	3116237.30	3174138.00	1.8580
Aroclor 1242	5	Averaged	4.078	4.044	4.112	2093297.05	2107202.00	0.6643
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	123295920.	-7.4290
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	113514080.	-5.7515

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

SAMPLE NO.

11003837CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 14:04

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

Lab File ID: 050718.B\050718076.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158013

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.344	4.309	4.377	2385348.25	2462836.00	3.2485
Aroclor 1248	2	Averaged	4.63	4.596	4.664	4247440.25	4285834.00	0.9039
Aroclor 1248	3	Averaged	4.898	4.864	4.932	2037039.95	2200580.00	8.0283
Aroclor 1248	4	Averaged	4.964	4.929	4.997	5477393.60	5501454.00	0.4393
Aroclor 1248	5	Averaged	5.123	5.089	5.157	3783272.55	3924454.00	3.7317
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	124377160.	-6.6172
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	115021200.	-4.5002

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 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
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.512	18851	12253	0.650	0.10	
5.783	9303	7027	0.755	0.05	
6.347	10003	6690	0.669	0.05	
6.867	9564	7223	0.755	0.05	
7.729	30210	25344	0.839	0.17	
7.802	20371	17570	0.862	0.11	
8.278	45102	38714	0.858	0.25	
8.572	5321926	4509273	0.847	30.49	$ 12 Decachlorobiphenyl
8.942	13753	10341	0.752	0.07	
9.470	11610	10452	0.900	0.06	
9.960	25620	14968	0.584	0.14	
	17451246	15314905		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 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				
2.484	2.484	0.000	5973454	0.05000	0.048			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00	(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98		BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66		BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71		BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85		BA
Average of Peak Amounts =					0.51600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5321926	0.05000	0.048				

QC Flag Legend

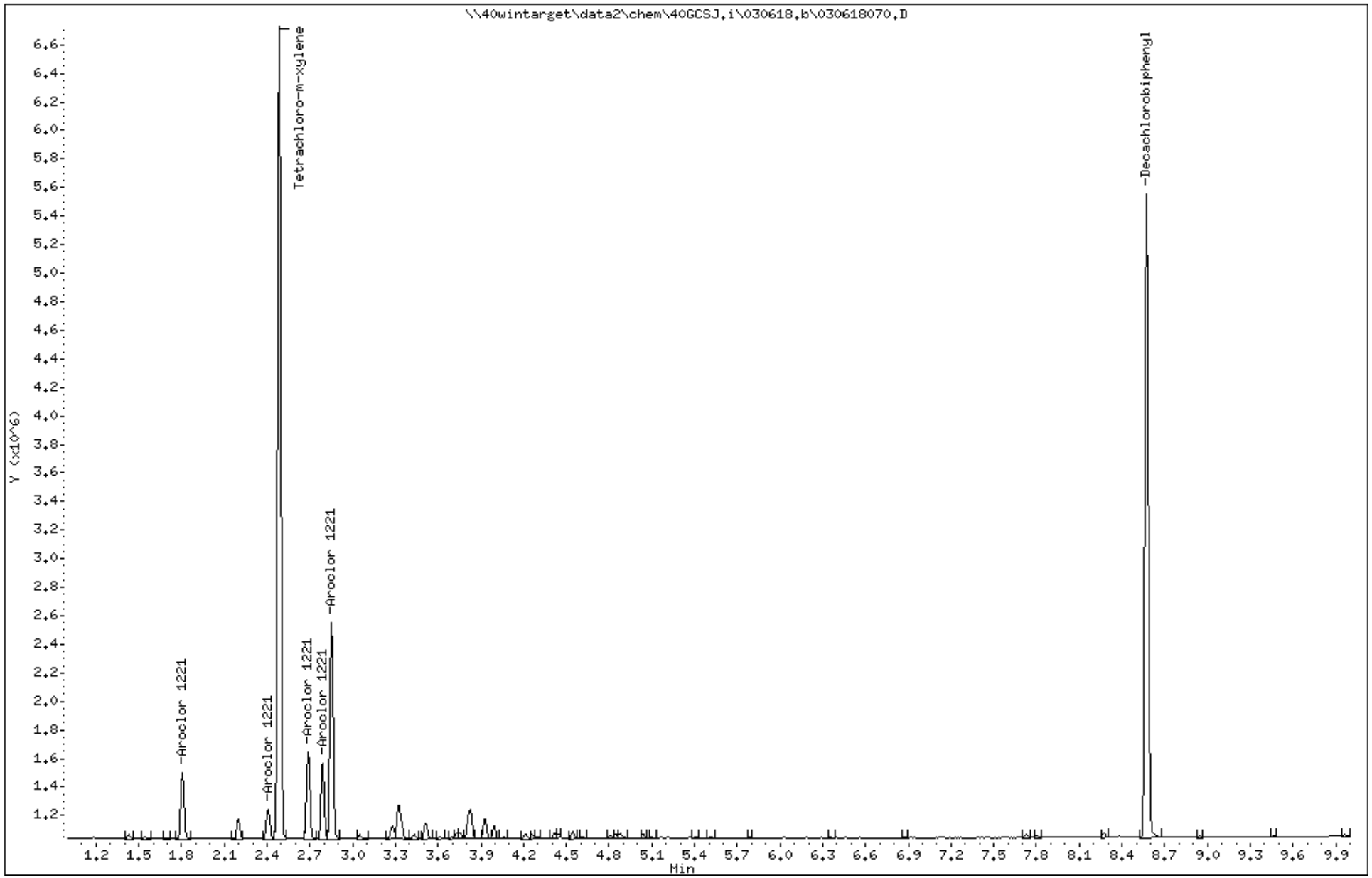
M - Compound response manually integrated.

Review Codes Legend

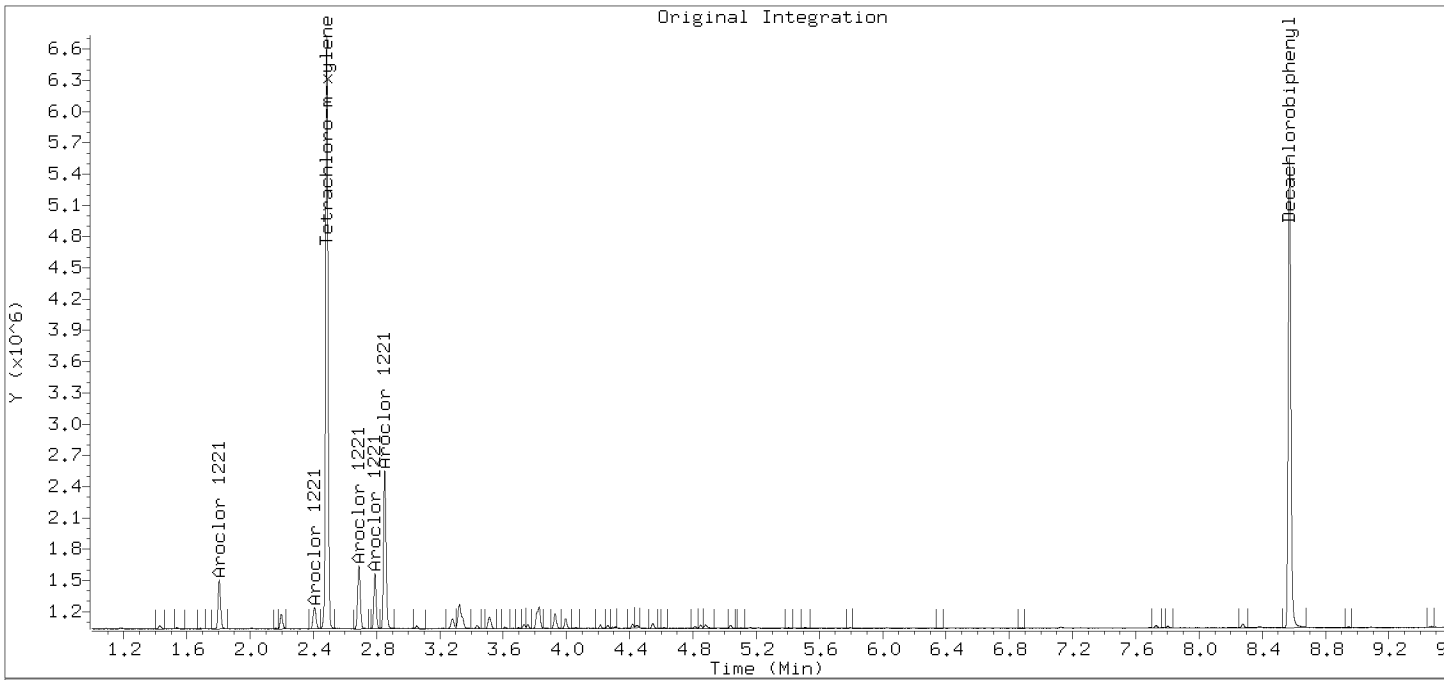
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

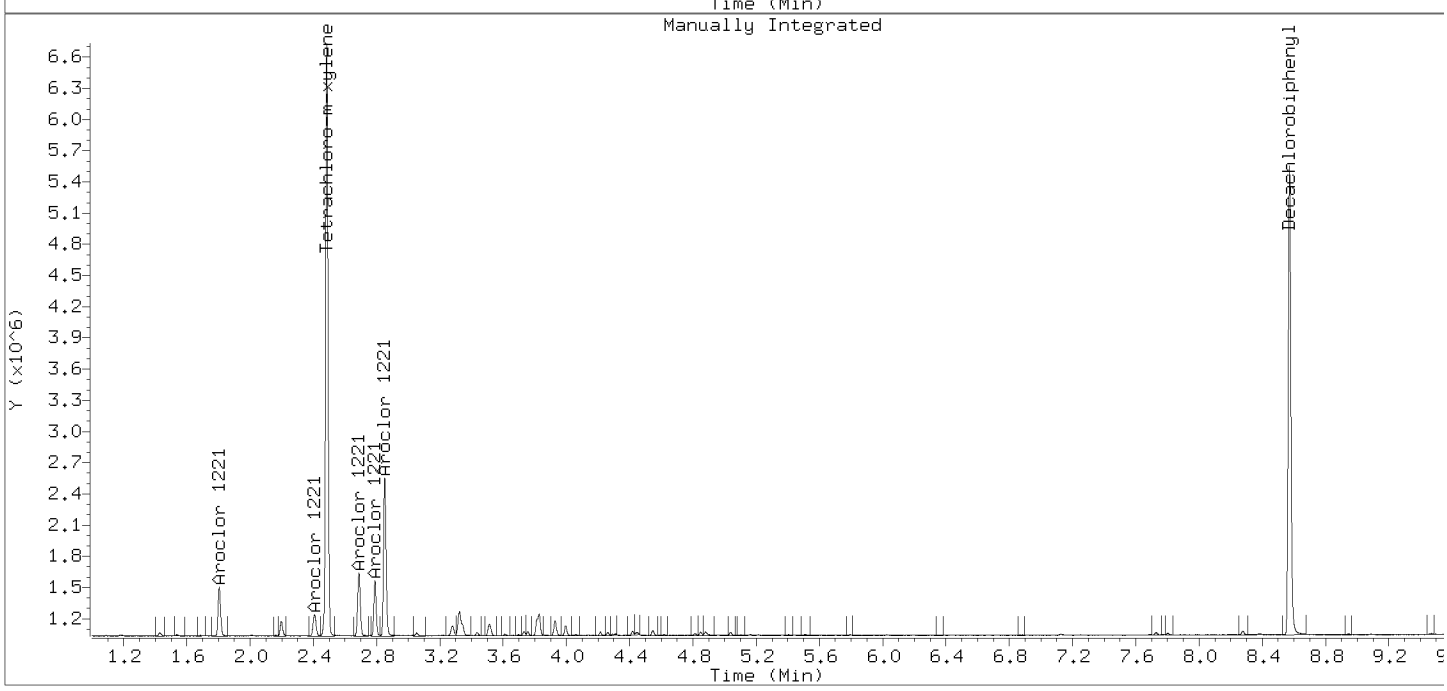
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618070.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Tetrachloro-m-xylene	5952668	5973454	BA
Decachlorobiphenyl	5321926	5321926	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 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
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	640662	618887	0.966	1.70	
4.848	1131783	1062264	0.939	3.01	
4.878	1453285	1083159	0.745	3.87	
4.957	156083	126825	0.813	0.41	
5.037	1224571	1114748	0.910	3.26	
5.099	245239	185939	0.758	0.65	
5.162	276625	246249	0.890	0.73	
5.212	201147	175293	0.871	0.53	
5.285	18730	16061	0.858	0.04	
5.312	50903	39235	0.771	0.13	
5.362	178111	159411	0.895	0.47	
5.407	296369	257265	0.868	0.78	
5.446	185486	163132	0.879	0.49	
5.509	494170	376849	0.763	1.31	
5.604	157705	129475	0.821	0.42	
5.670	15998	12262	0.766	0.04	
5.716	27499	21293	0.774	0.07	
5.741	38080	32982	0.866	0.10	
5.792	324066	249256	0.769	0.86	
5.891	46598	28590	0.614	0.12	
6.025	300272	225833	0.752	0.80	
6.173	22376	16996	0.760	0.05	
6.299	61219	54211	0.886	0.16	
6.335	9981	10468	1.049	0.02	
6.367	9764	8232	0.843	0.02	
6.801	13109	12142	0.926	0.03	
7.008	20895	16561	0.793	0.05	
7.124	16181	11660	0.721	0.04	
7.253	9479	8109	0.855	0.02	
7.392	10765	9021	0.838	0.02	
7.727	30633	26862	0.877	0.08	
7.802	22807	20254	0.888	0.06	
8.275	44979	37205	0.827	0.11	
8.381	12768	10411	0.815	0.03	
8.572	5034014	4309550	0.856	13.41	$ 12 Decachlorobiphenyl
9.466	9953	6796	0.683	0.02	
9.962	21579	14184	0.657	0.05	
	37517051	32315109		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 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		
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5034013	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\40GCSJ.i\030618.b\030618072.D

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

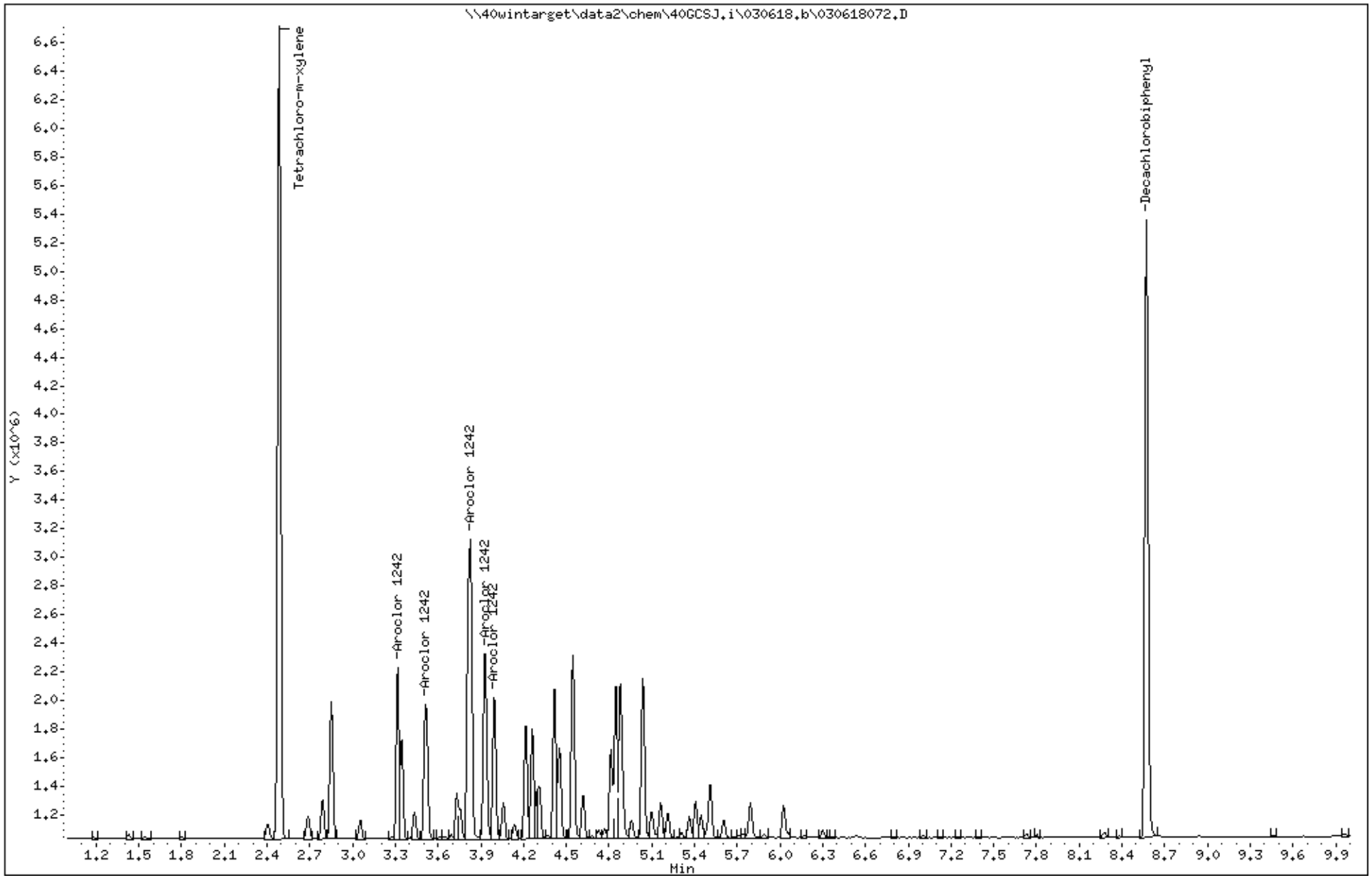
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

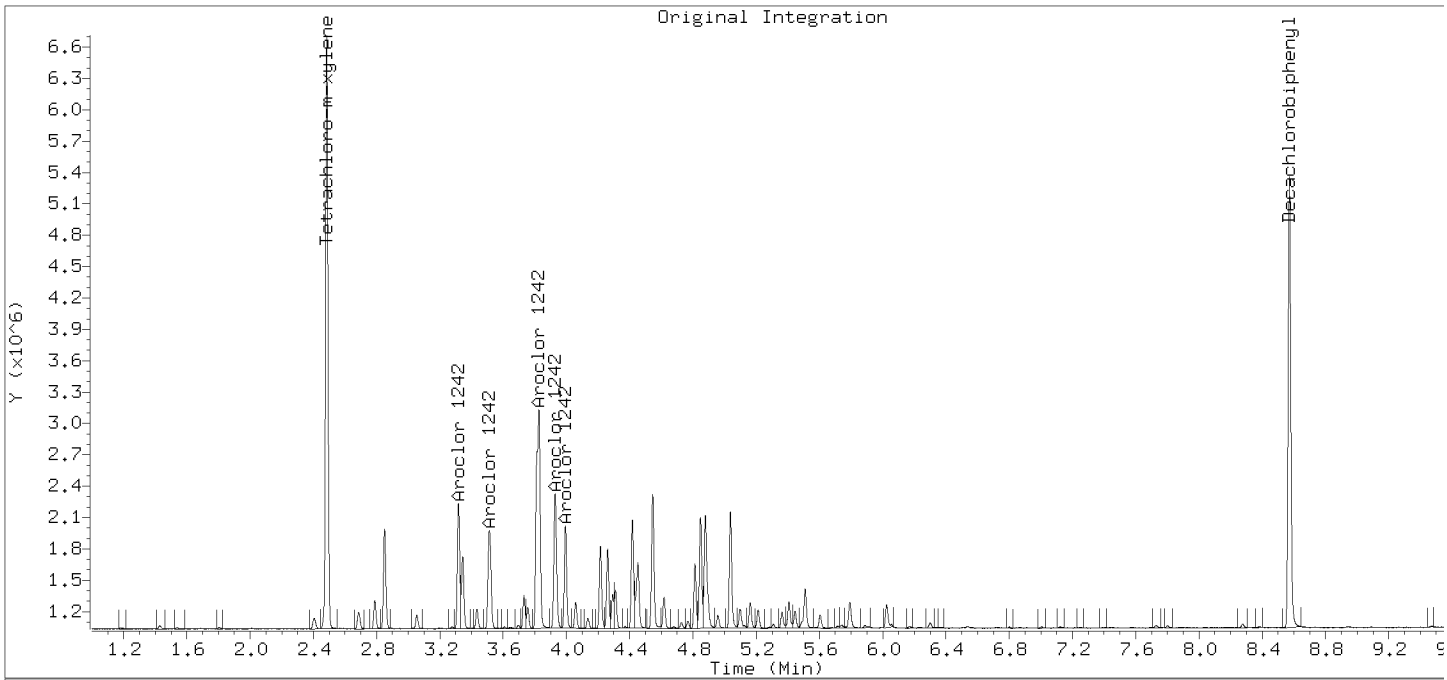
Operator: BLM

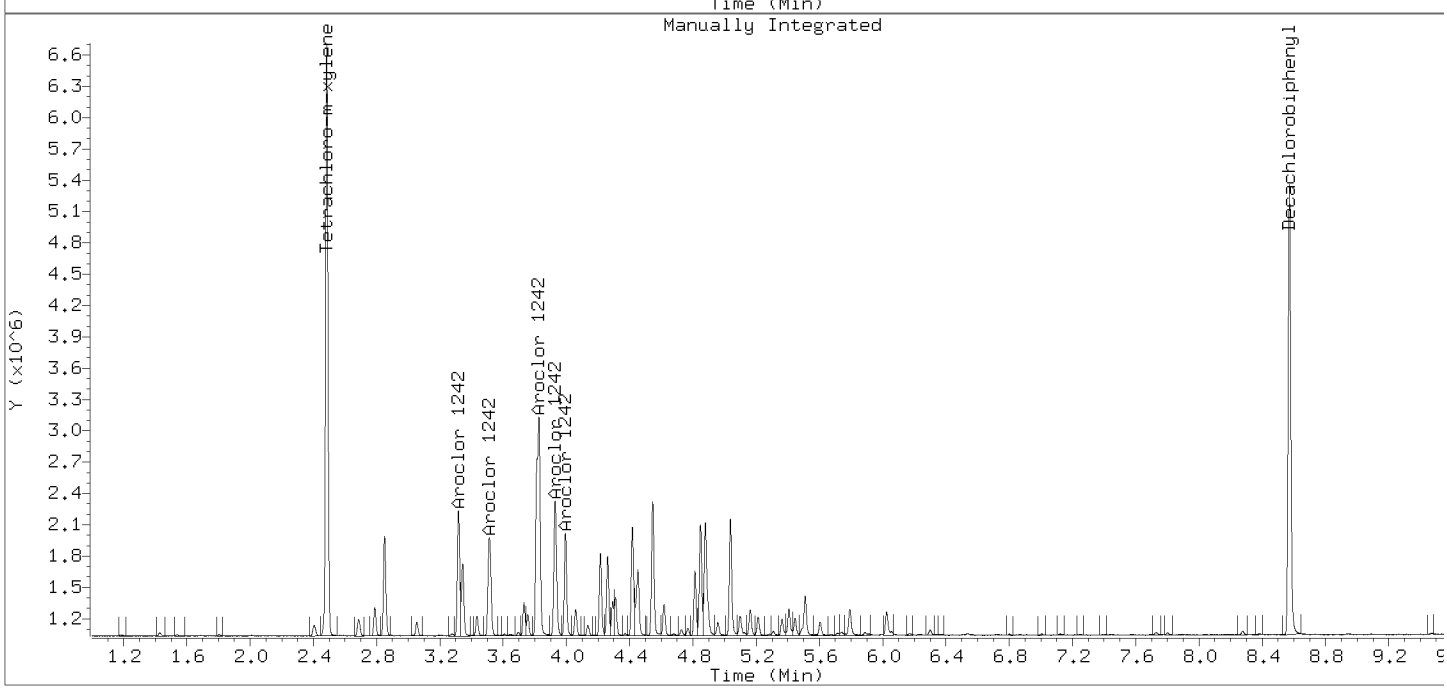
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618072.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Tetrachloro-m-xylene	5873636	5873636	
Decachlorobiphenyl	5034013	5034013	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	17909	14420	0.805	0.04		
1.427	41300	30754	0.745	0.09		
1.534	17534	12165	0.694	0.04		
1.683	10383	10019	0.965	0.02		
2.405	14088	10428	0.740	0.03		
2.485	5899761	5544150	0.940	14.05	$ 2 Tetrachloro-m-xylene	
2.689	16668	12362	0.742	0.03		
2.788	95501	90846	0.951	0.22		
2.852	103096	93433	0.906	0.23		
3.055	53842	46986	0.873	0.12		
3.318	652092	633367	0.971	1.50		
3.344	255476	242530	0.949	0.58		
3.433	54381	45369	0.834	0.12		
3.515	528681	378059	0.715	1.22		
3.612	17192	16665	0.969	0.03		
3.733	139942	107922	0.771	0.32		
3.815	998138	1180553	1.183	2.30		
3.825	1248615	1194584	0.957	2.88		
3.931	835250	638277	0.764	1.92		
3.995	550006	533435	0.970	1.26		
4.059	343387	326192	0.950	0.79		
4.137	145276	132173	0.910	0.33		
4.215	1486323	1403883	0.945	3.43		
4.262	1208004	1159133	0.960	2.78	6 Aroclor 1248	BA
4.293	511269	526568	1.030	1.17		
4.311	543428	513963	0.946	1.25		
4.418	1823450	1718104	0.942	4.20		
4.452	908943	795006	0.875	2.09		
4.546	2136003	1914178	0.896	4.92	6 Aroclor 1248	BA
4.588	34235	33628	0.982	0.07		
4.618	485337	462281	0.952	1.12		
4.680	28053	23489	0.837	0.06		
4.728	63611	50641	0.796	0.14		
4.769	114596	110060	0.960	0.26		
4.813	1072572	1047618	0.977	2.47	6 Aroclor 1248	BA
4.848	2019974	1872521	0.927	4.66		
4.880	2628588	1729939	0.658	6.06	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.958	300549	254865	0.848	0.69	
5.037	1890857	1718796	0.909	4.36	6 Aroclor 1248
5.099	658439	515140	0.782	1.51	
5.163	778429	704282	0.905	1.79	
5.212	561933	511880	0.911	1.29	
5.284	37417	36848	0.985	0.08	
5.309	124762	104101	0.834	0.28	
5.364	496549	440266	0.887	1.14	
5.408	826216	719936	0.871	1.90	
5.446	528194	462528	0.876	1.21	
5.510	1373479	1108021	0.807	3.16	
5.604	398982	348600	0.874	0.92	
5.675	36019	29954	0.832	0.08	
5.717	78189	59388	0.760	0.18	
5.739	98549	89525	0.908	0.22	
5.793	935796	748637	0.800	2.15	
5.889	98768	81563	0.826	0.22	
5.996	31650	25516	0.806	0.07	
6.024	912880	698617	0.765	2.10	
6.169	70680	48903	0.692	0.16	
6.228	45926	27843	0.606	0.10	
6.301	222697	182730	0.821	0.51	
6.335	46487	36946	0.795	0.10	
6.372	40036	31572	0.789	0.09	
6.512	15047	14089	0.936	0.03	
6.536	93754	63840	0.681	0.21	
6.607	16189	11424	0.706	0.03	
6.719	21159	16941	0.801	0.04	
6.759	10928	9914	0.907	0.02	
6.804	35912	32894	0.916	0.08	
7.005	37431	32956	0.880	0.08	
7.126	11973	10422	0.870	0.02	
7.253	25115	21545	0.858	0.05	
7.683	12978	7477	0.576	0.02	
7.730	34860	28466	0.817	0.08	
7.799	36493	21426	0.587	0.08	
7.900	14089	11492	0.816	0.03	
8.274	45874	41456	0.904	0.10	
8.380	17315	11279	0.651	0.03	
8.571	5173433	4424436	0.855	11.93	$ 12 Decachlorobiphenyl
8.940	12157	9669	0.795	0.02	
9.960	18949	14032	0.741	0.04	
	43330043	38425916		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	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\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

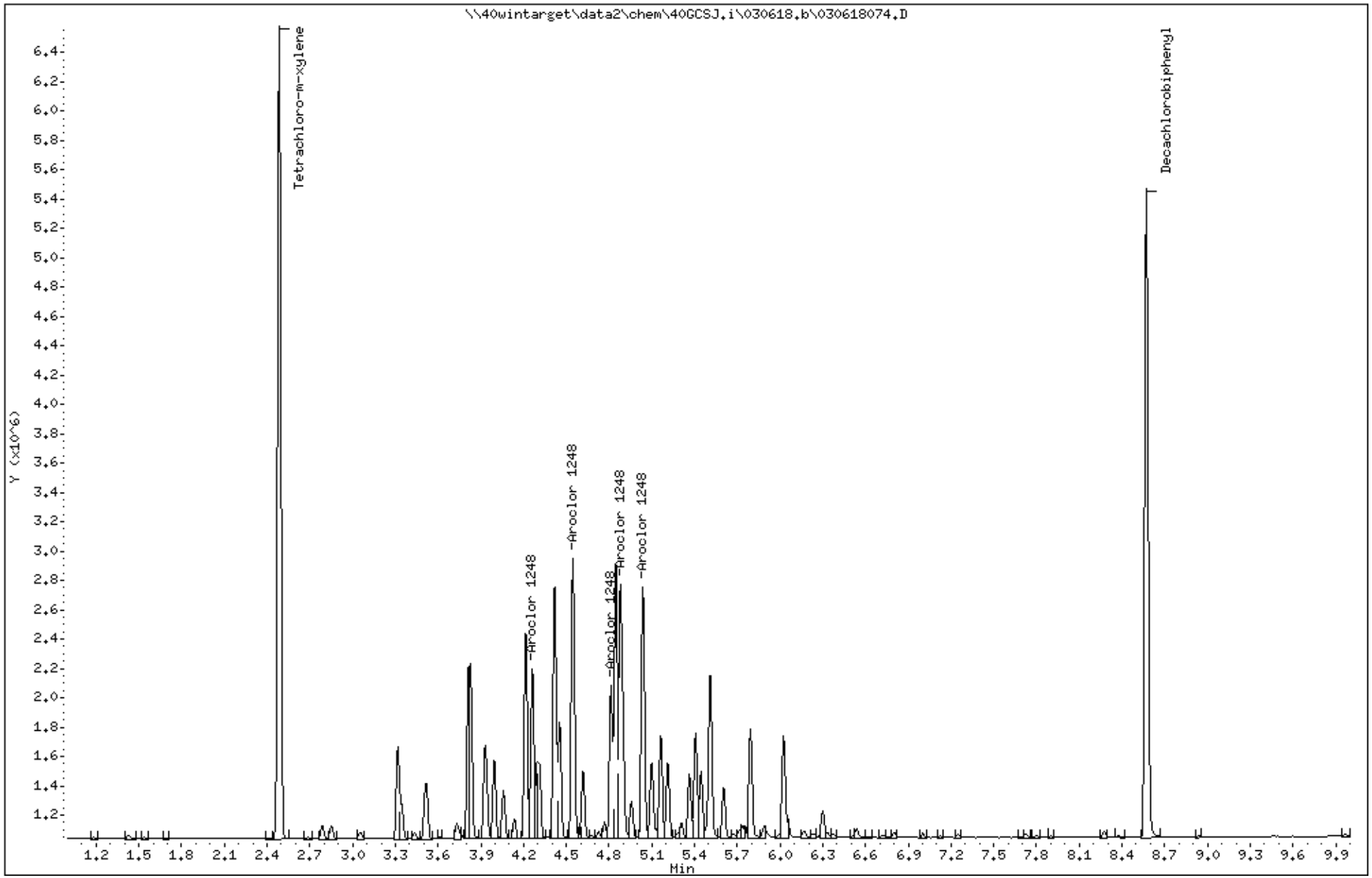
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

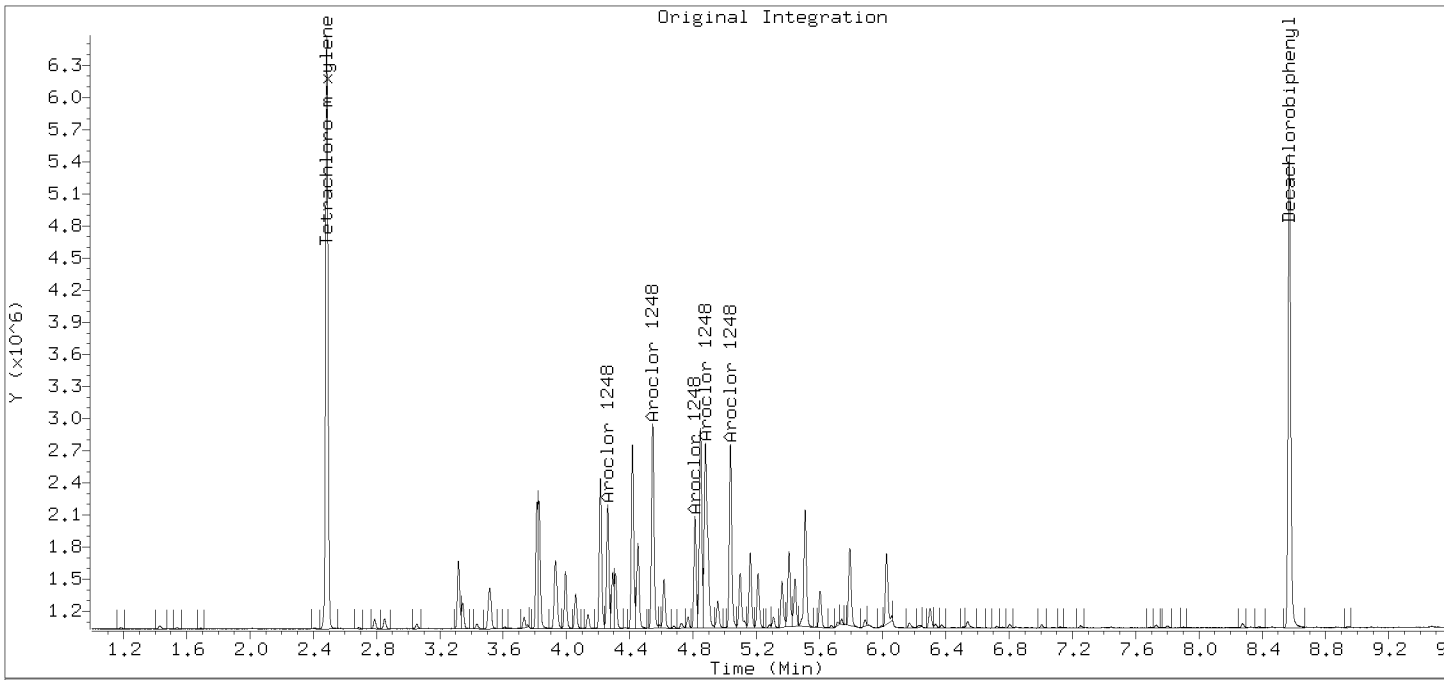
Operator: BLM

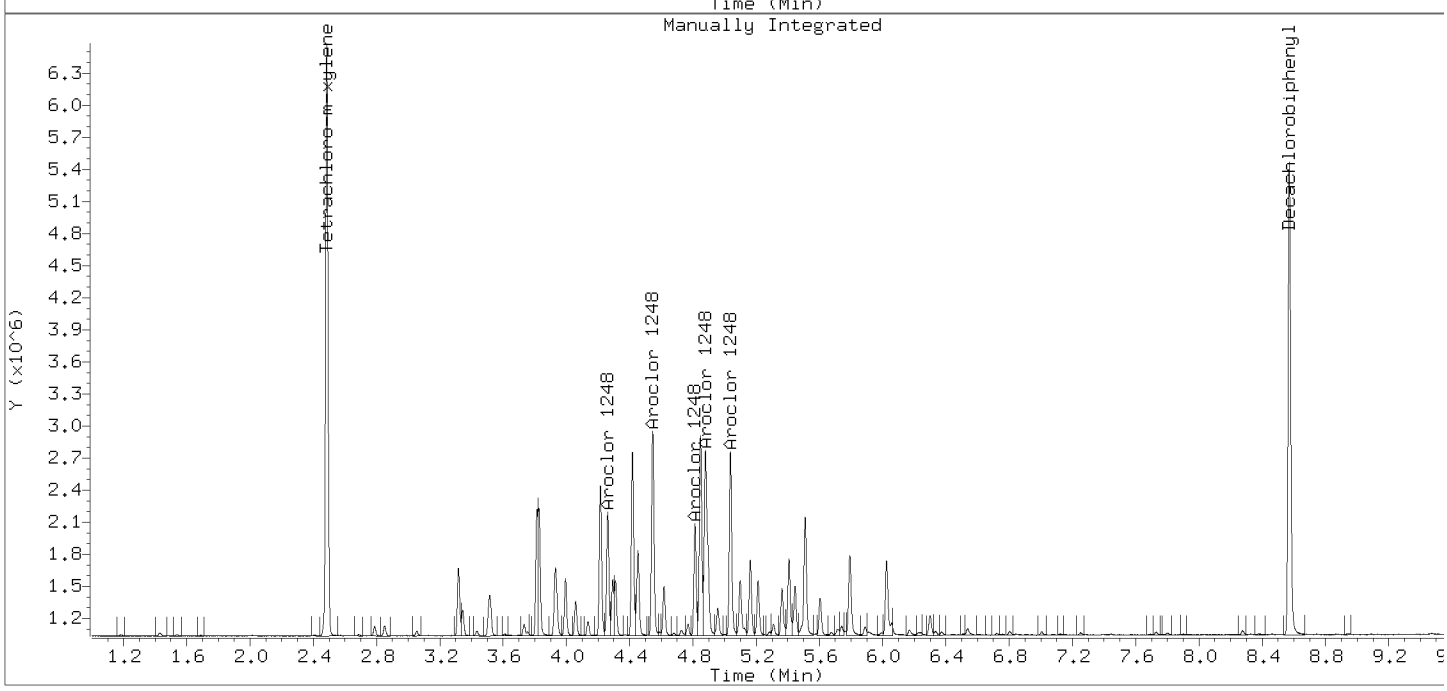
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618074.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Tetrachloro-m-xylene	5899761	5899761	
Decachlorobiphenyl	5173433	5173433	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11241	11145	0.991	0.02		
1.429	37023	29359	0.793	0.07		
1.536	18870	14547	0.771	0.03		
2.485	5956441	5624399	0.944	12.17	$ 2 Tetrachloro-m-xylene	
2.787	83932	83545	0.995	0.16		
2.847	23487	12751	0.543	0.04		
3.053	22053	16758	0.760	0.04		
3.320	24424	22137	0.906	0.04		
3.343	16533	14772	0.894	0.03		
3.511	21956	15136	0.689	0.04		
3.610	23047	18723	0.812	0.04		
3.813	73837	44648	0.605	0.14		
3.936	54806	35146	0.641	0.10		
3.991	21322	19067	0.894	0.04		
4.057	16084	14470	0.900	0.03		
4.216	1104737	1042404	0.944	2.18		
4.261	294439	287244	0.976	0.58		
4.293	55355	38898	0.703	0.10		
4.417	645490	619185	0.959	1.27		
4.453	65034	55154	0.848	0.12		
4.546	297966	280995	0.943	0.58		
4.590	13297	14947	1.124	0.02		
4.615	52626	43507	0.827	0.10		
4.682	14760	14823	1.004	0.02		
4.769	19864	18032	0.908	0.03		
4.813	255256	243907	0.956	0.50		
4.848	954635	917189	0.961	1.88		
4.895	2240553	1806193	0.806	4.42		
4.957	378746	331044	0.874	0.74		
5.039	197483	178932	0.906	0.39		
5.100	1331660	1130632	0.849	2.63		
5.163	2454299	2245562	0.915	4.84	7 Aroclor 1254	BA
5.212	1112261	987906	0.888	2.19		
5.285	62054	59649	0.961	0.12		
5.310	206656	186551	0.903	0.40		
5.363	957753	888665	0.928	1.89		
5.407	2011999	1826444	0.908	3.97	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.445	683522	603976	0.884	1.35	
5.478	263671	258349	0.980	0.52	
5.510	3557061	3172502	0.892	7.02	7 Aroclor 1254
5.577	41056	36384	0.886	0.08	
5.605	496084	429134	0.865	0.98	
5.676	353874	332146	0.939	0.69	
5.711	557893	345779	0.620	1.10	
5.741	316074	271838	0.860	0.62	
5.790	3702485	2959912	0.799	7.31	
5.885	349557	271841	0.778	0.69	
5.928	191368	119957	0.627	0.37	
5.994	332278	306209	0.922	0.65	
6.027	2279656	1881319	0.825	4.50	7 Aroclor 1254
6.055	1742805	1415445	0.812	3.44	
6.169	710083	597581	0.842	1.40	
6.228	301903	298212	0.988	0.59	
6.242	317472	282700	0.890	0.62	
6.300	3175762	2557382	0.805	6.27	7 Aroclor 1254
6.335	613369	538823	0.878	1.21	
6.374	338945	280771	0.828	0.66	
6.441	98349	54990	0.559	0.19	
6.487	20933	19173	0.916	0.04	
6.510	122159	127890	1.047	0.24	
6.537	1093807	836036	0.764	2.16	
6.606	171691	137034	0.798	0.33	
6.662	39774	29158	0.733	0.07	
6.720	225492	189217	0.839	0.44	
6.760	134652	118490	0.880	0.26	
6.802	627925	538577	0.858	1.24	
6.843	186255	113960	0.612	0.36	
6.943	65536	50712	0.774	0.12	
7.006	455898	370505	0.813	0.90	
7.074	28987	20562	0.709	0.05	
7.121	17906	16606	0.927	0.03	
7.253	362457	317889	0.877	0.71	
7.281	86561	71028	0.821	0.17	
7.390	15134	15178	1.003	0.02	
7.445	25464	19955	0.784	0.05	
7.555	25575	19764	0.773	0.05	
7.692	17214	14547	0.845	0.03	
7.731	30335	26152	0.862	0.05	
7.802	25782	20334	0.789	0.05	
7.898	15405	15400	1.000	0.03	
8.277	51144	41782	0.817	0.10	
8.571	5194608	4290400	0.826	10.26	$ 12 Decachlorobiphenyl
9.963	10137	8532	0.842	0.02	
	50606079	43638597		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5194608	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\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

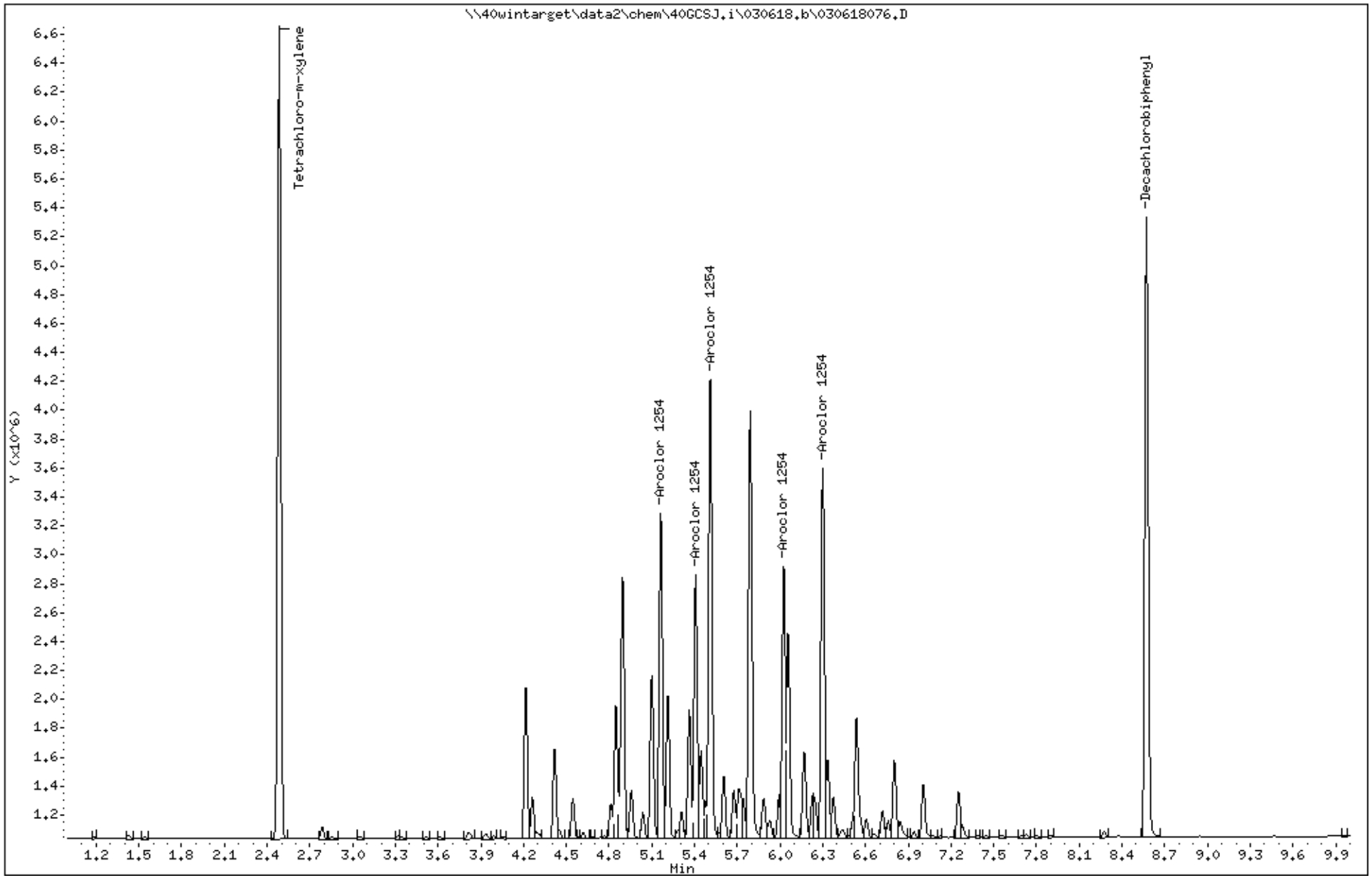
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

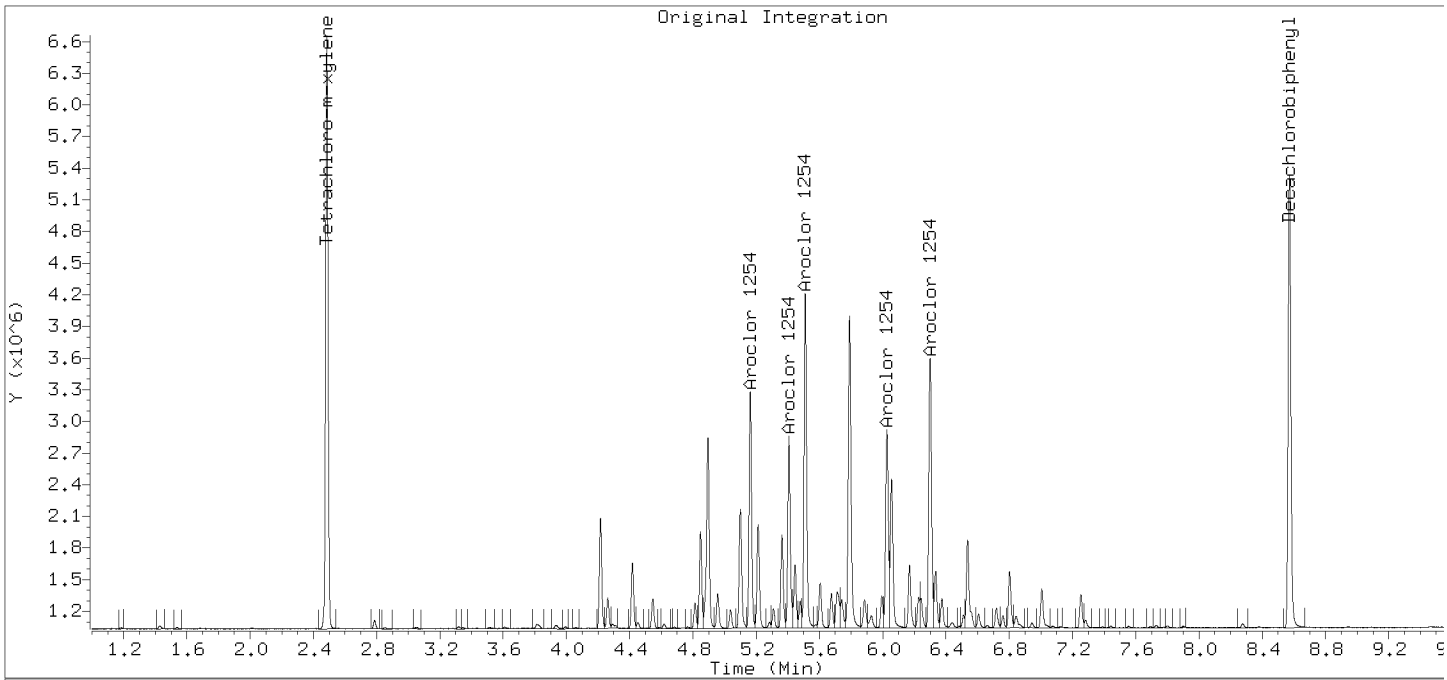
Operator: BLM

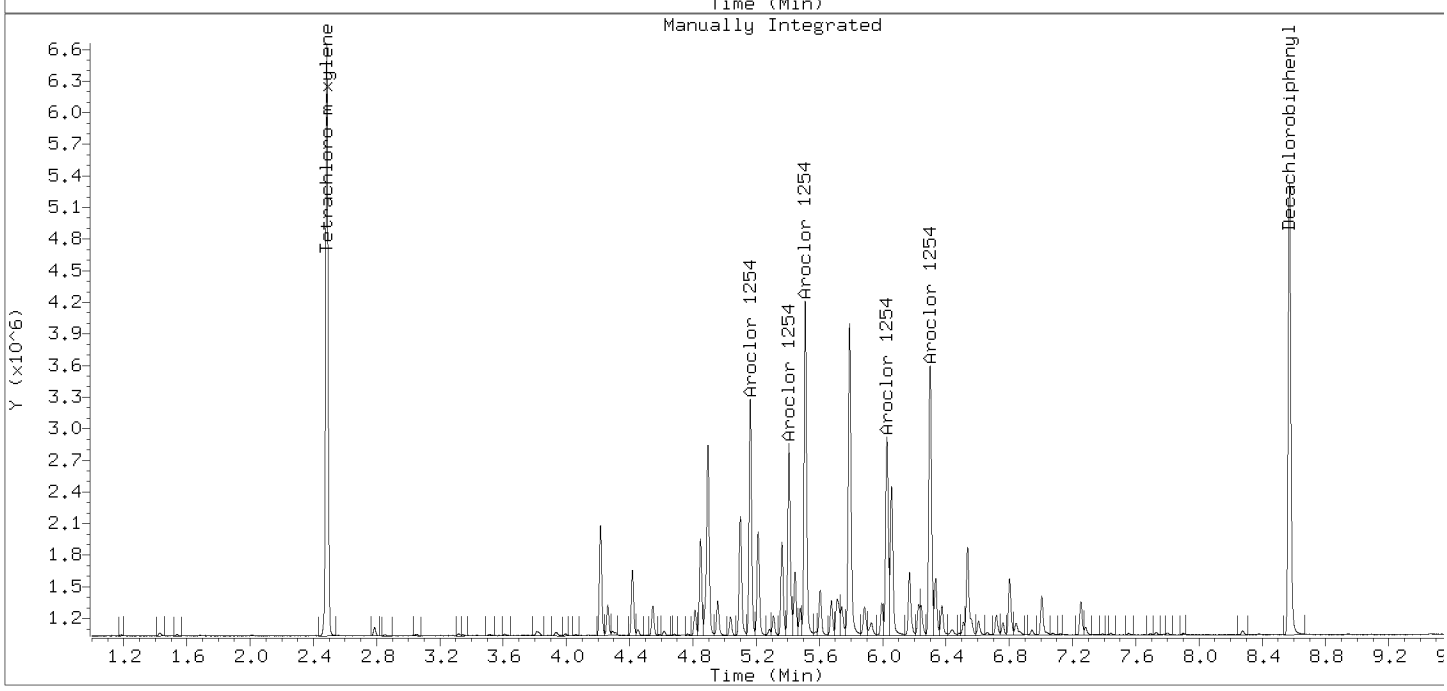
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618076.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Tetrachloro-m-xylene	5956440	5956440	
Decachlorobiphenyl	5194608	5194608	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	21221	17184	0.810	0.02		
1.431	40838	31713	0.777	0.04		
1.536	17776	15618	0.879	0.02		
1.804	13311	13960	1.049	0.01		
2.011	10268	7617	0.742	0.01		
2.405	140776	109473	0.778	0.16		
2.484	5932090	5726918	0.965	7.56	$ 2 Tetrachloro-m-xylene	
2.687	201068	164753	0.819	0.24		
2.788	295756	279701	0.946	0.35		
2.851	1113041	1029534	0.925	1.33		
3.055	169967	158668	0.934	0.20		
3.277	24278	19456	0.801	0.02		
3.317	1575915	1463198	0.928	1.88	5 Aroclor 1016	BA
3.344	915512	854579	0.933	1.09		
3.435	250094	229311	0.917	0.29		
3.513	1583523	1159648	0.732	1.89	5 Aroclor 1016	BA
3.610	21286	19905	0.935	0.02		
3.645	25464	17411	0.684	0.03		
3.696	44251	42008	0.949	0.05		
3.732	398780	398305	0.999	0.47		
3.756	256467	255771	0.997	0.30		
3.827	4508685	2620847	0.581	5.39	5 Aroclor 1016	BA
3.929	1926630	1599827	0.830	2.30	5 Aroclor 1016	BA
3.994	1286237	1237455	0.962	1.54	5 Aroclor 1016	BA
4.058	377180	342508	0.908	0.45		
4.136	150296	140468	0.935	0.17		
4.214	1102455	1039229	0.943	1.32		
4.261	1029907	980757	0.952	1.23		
4.293	425562	439845	1.034	0.50		
4.310	540061	519083	0.961	0.64		
4.370	26189	19343	0.739	0.03		
4.417	1387264	1301927	0.938	1.66		
4.453	895338	753232	0.841	1.07		
4.545	1576424	1430306	0.907	1.88		
4.591	17433	23996	1.376	0.02		
4.618	301465	279443	0.927	0.36		
4.680	19837	14137	0.713	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	37013	29354	0.793	0.04	
4.768	30417	27693	0.910	0.03	
4.814	156037	149062	0.955	0.18	
4.848	239300	233617	0.976	0.28	
4.895	1221737	985481	0.807	1.46	
4.958	58840	41257	0.701	0.07	
5.037	85057	75952	0.893	0.10	
5.100	246503	215312	0.873	0.29	
5.163	1183240	1075758	0.909	1.41	
5.212	41947	29637	0.707	0.05	
5.310	13373	10637	0.795	0.01	
5.363	57749	52832	0.915	0.06	
5.407	268815	254856	0.948	0.32	
5.446	13974	15175	1.086	0.01	
5.478	527498	492186	0.933	0.63	
5.510	745390	669137	0.898	0.89	
5.576	10212	10260	1.005	0.01	
5.603	17026	12475	0.733	0.02	
5.676	1384577	1280481	0.925	1.65	
5.710	943302	526346	0.558	1.12	
5.786	3233298	2804467	0.867	3.87	
5.882	208249	189092	0.908	0.24	
5.930	96479	76874	0.797	0.11	
5.993	545401	501421	0.919	0.65	
6.029	1181491	1139915	0.965	1.41	
6.055	3616031	3141367	0.869	4.33	
6.169	2379439	1526966	0.642	2.84	
6.256	501646	311664	0.621	0.60	
6.301	4216761	3413991	0.810	5.04	8 Aroclor 1260
6.334	589361	516529	0.876	0.70	
6.373	133856	105313	0.787	0.16	
6.433	474923	416467	0.877	0.56	
6.486	96367	124001	1.287	0.11	
6.510	2278472	2020249	0.887	2.72	
6.535	319186	362341	1.135	0.38	
6.561	1371229	1239953	0.904	1.64	
6.606	126514	100966	0.798	0.15	
6.661	435030	401966	0.924	0.52	
6.718	2436948	2139504	0.878	2.91	
6.760	1379678	1221074	0.885	1.65	
6.803	1012423	886702	0.876	1.21	
6.839	204549	179535	0.878	0.24	
6.867	101951	86190	0.845	0.12	
6.915	150840	138650	0.919	0.18	
6.944	471585	431542	0.915	0.56	
7.006	5169251	4474270	0.866	6.18	8 Aroclor 1260
7.035	349824	352477	1.008	0.41	
7.076	161438	129444	0.802	0.19	
7.122	226639	191125	0.843	0.27	
7.252	2431978	2174432	0.894	2.91	8 Aroclor 1260
7.282	689708	552481	0.801	0.82	
7.391	1295375	1038752	0.802	1.55	
7.443	1492830	1281759	0.859	1.78	8 Aroclor 1260
7.554	105447	79274	0.752	0.12	
7.692	611618	562958	0.920	0.73	
7.728	153573	121839	0.793	0.18	
7.801	84844	63857	0.753	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	1408195	1200861	0.853	1.68	8 Aroclor 1260
7.965	99066	72839	0.735	0.11	
8.277	469900	412226	0.877	0.56	
8.379	12566	10774	0.857	0.01	
8.571	5248206	4347540	0.828	6.28	$ 12 Decachlorobiphenyl
8.945	16720	11361	0.679	0.02	
9.471	16512	10298	0.624	0.01	
	83510046	71509948		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932090	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1575914	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1583522	0.50000	0.51	0.00- 20.00	100.48	BA
3.826	3.826	0.000	4508685	0.50000	0.51	0.00- 20.00	286.10	BA
3.928	3.929	-0.001	1926630	0.50000	0.51	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1286237	0.50000	0.49	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.50600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4216761	0.50000	0.48	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5169251	0.50000	0.52	0.00- 20.00	122.59	CO
7.251	7.251	0.000	2431977	0.50000	0.51	0.00- 20.00	57.67	CO
7.442	7.443	-0.001	1492830	0.50000	0.51	0.00- 20.00	35.40	CO
7.901	7.901	0.000	1408195	0.50000	0.53	0.00- 20.00	33.40	CO
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5248206	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

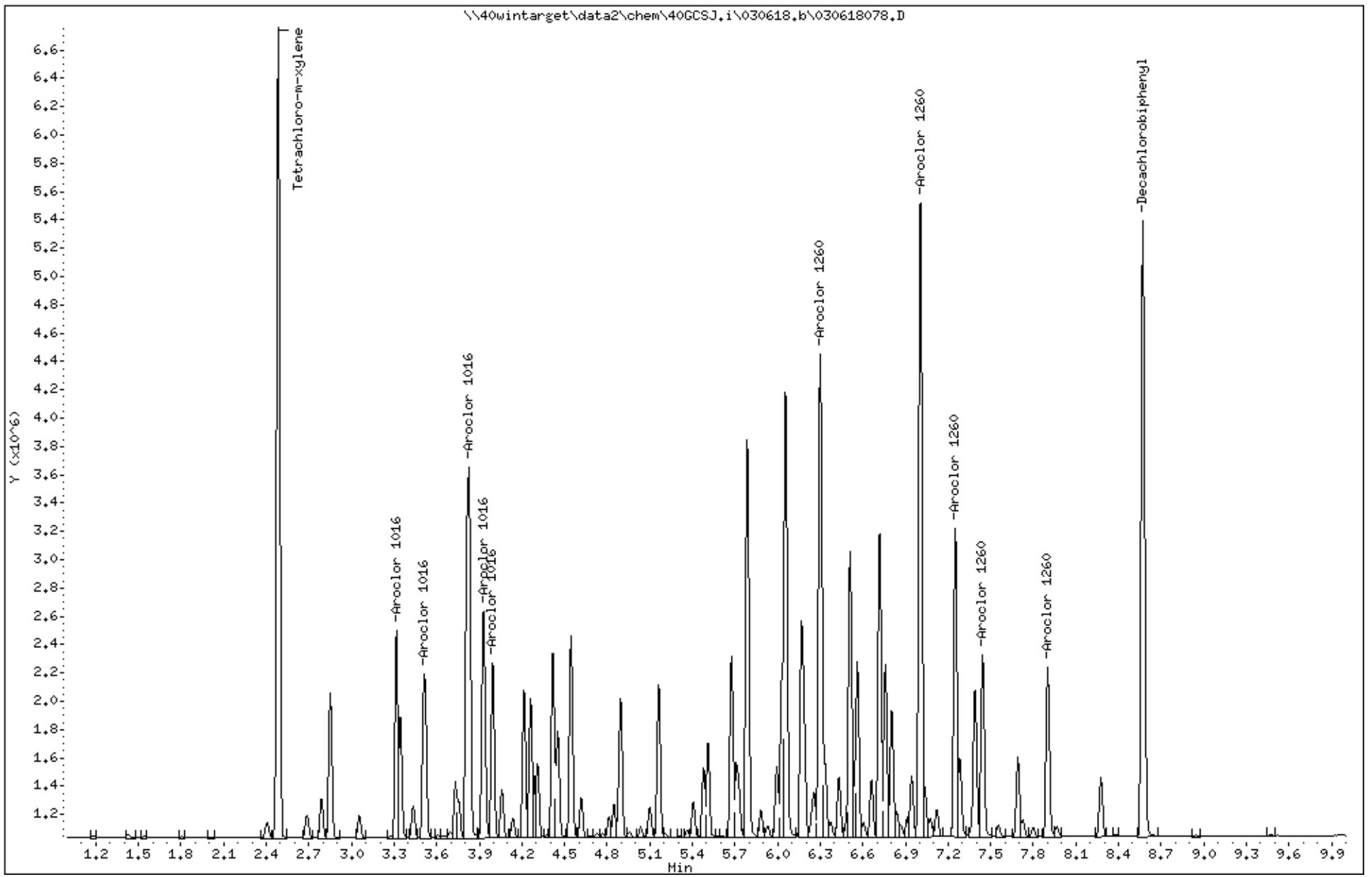
QC Flag Legend

Review Codes Legend

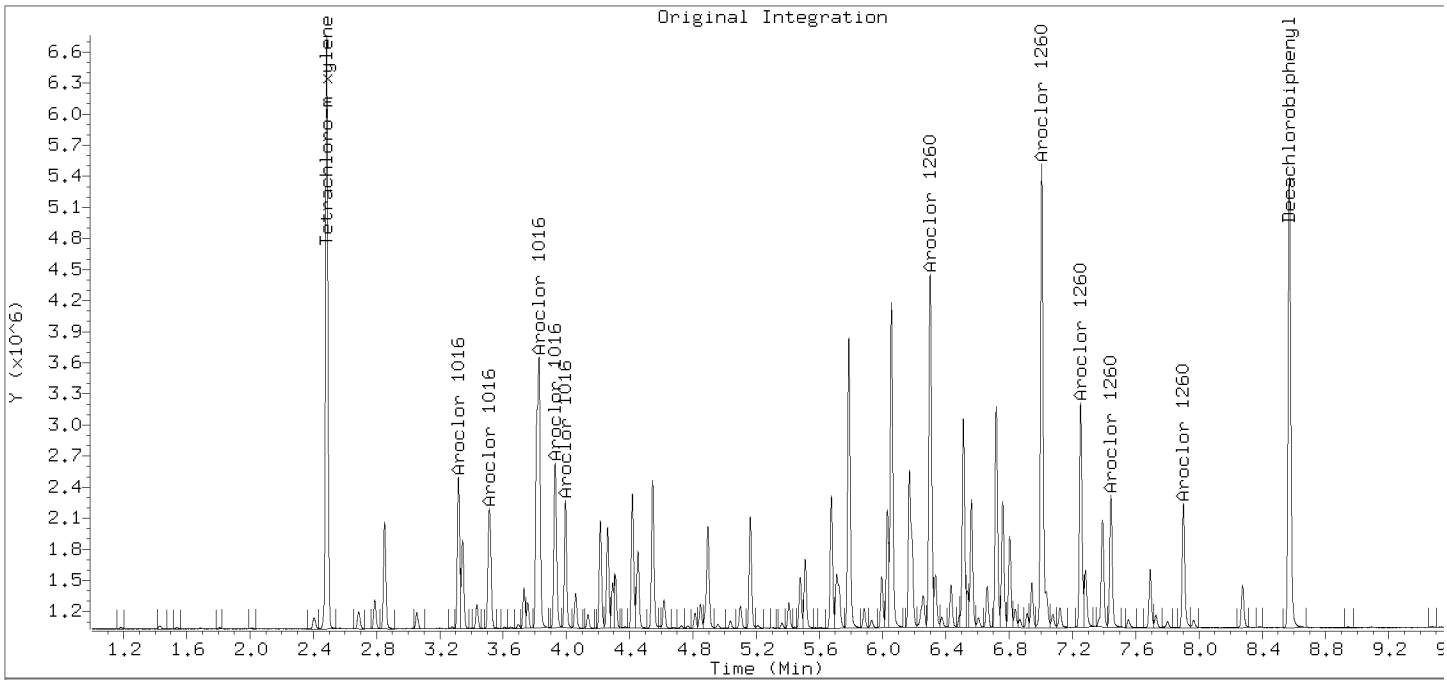
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

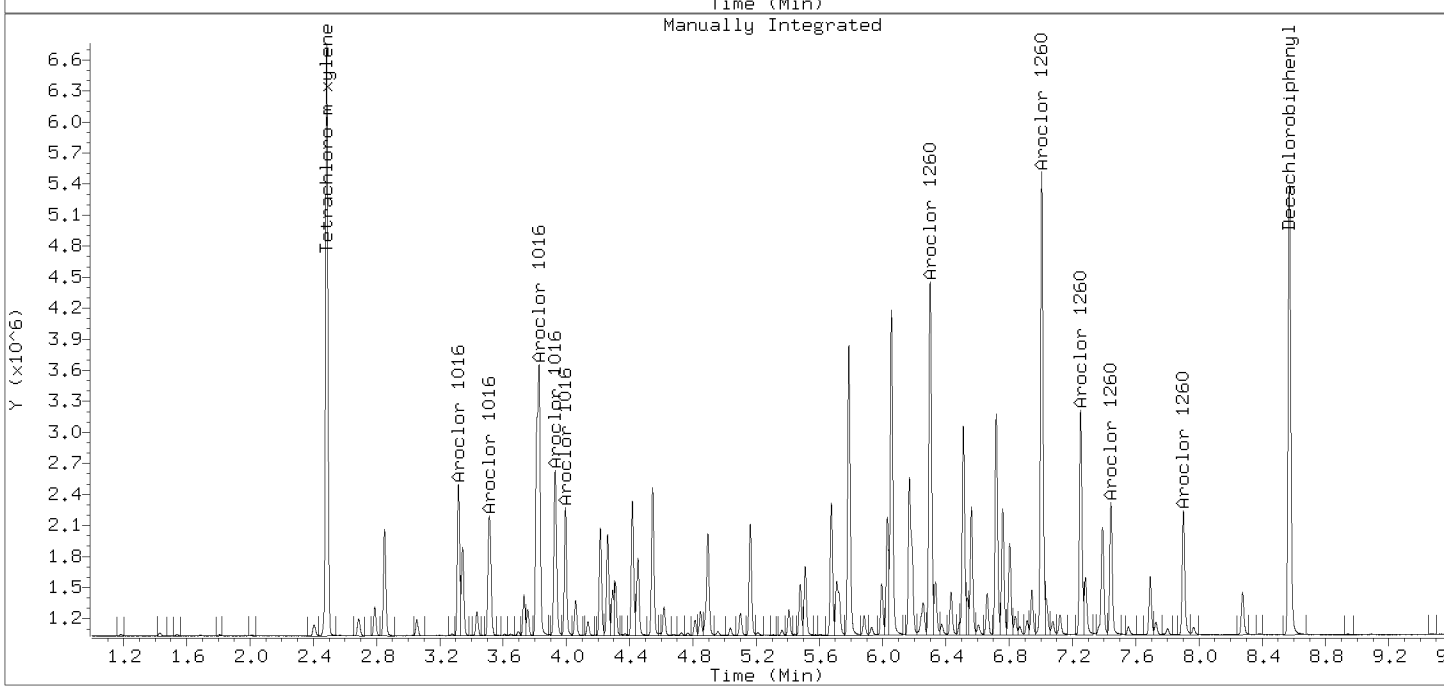
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 25-APR-2018 14:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	34024	23615	0.694	0.07		
1.433	38457	28518	0.742	0.08		
1.538	20503	14186	0.692	0.04		
1.693	23635	15338	0.649	0.04		
1.802	10118	7146	0.706	0.02		
2.010	15145	12232	0.808	0.03		
2.403	27884	19768	0.709	0.05		
2.485	6287339	5620152	0.894	13.80	$ 2 Tetrachloro-m-xylene	
2.690	36283	28310	0.780	0.07		
2.789	120020	109729	0.914	0.25		
2.851	198205	175376	0.885	0.41		
3.055	70255	57506	0.819	0.14		
3.318	756386	703101	0.930	1.59		
3.344	316780	290289	0.916	0.66		
3.434	67225	61921	0.921	0.14		
3.515	621105	451896	0.728	1.31		
3.609	23531	21075	0.896	0.04		
3.645	10153	8525	0.840	0.02		
3.694	10608	9721	0.916	0.02		
3.731	190389	136695	0.718	0.40		
3.814	1136879	1298242	1.142	2.40		
3.825	1384226	1360718	0.983	2.92		
3.930	955687	732178	0.766	2.02		
3.994	633325	601344	0.950	1.33		
4.058	367378	331788	0.903	0.77		
4.136	151701	139105	0.917	0.32		
4.215	1578510	1480916	0.938	3.33		
4.261	1265298	1188578	0.939	2.67	6 Aroclor 1248	BA
4.293	529541	534088	1.009	1.11		
4.309	550927	532522	0.967	1.16		
4.367	16324	10980	0.673	0.03		
4.417	1930073	1752137	0.908	4.08		
4.452	950438	838474	0.882	2.01		
4.545	2199334	1962436	0.892	4.65	6 Aroclor 1248	BA
4.591	38192	33555	0.879	0.08		
4.617	505393	474147	0.938	1.06		
4.681	32657	21232	0.650	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	66239	54272	0.819	0.14	
4.768	120572	112275	0.931	0.25	
4.813	1103352	1036996	0.940	2.33	6 Aroclor 1248
4.847	2108833	2004837	0.951	4.46	
4.879	2728754	1778508	0.652	5.77	6 Aroclor 1248
4.957	322099	264001	0.820	0.68	
5.037	1942506	1772466	0.912	4.10	6 Aroclor 1248
5.098	695932	540515	0.777	1.47	
5.163	828143	754672	0.911	1.75	
5.212	599940	529176	0.882	1.26	
5.282	40347	38138	0.945	0.08	
5.309	133653	109865	0.822	0.28	
5.363	522806	460904	0.882	1.10	
5.407	867414	750970	0.866	1.83	
5.445	537404	474997	0.884	1.13	
5.509	1464746	1175650	0.803	3.09	
5.604	410272	360696	0.879	0.86	
5.675	51207	41594	0.812	0.10	
5.715	84597	65522	0.775	0.17	
5.740	142061	92869	0.654	0.30	
5.792	990113	801352	0.809	2.09	
5.888	136791	81435	0.595	0.28	
5.992	31179	29953	0.961	0.06	
6.023	825581	713609	0.864	1.74	
6.055	178810	139473	0.780	0.37	
6.170	93302	57026	0.611	0.19	
6.224	62008	34017	0.549	0.13	
6.298	258220	212219	0.822	0.54	
6.333	51293	41598	0.811	0.10	
6.374	41169	30771	0.747	0.08	
6.510	47727	39489	0.827	0.10	
6.536	97363	73266	0.753	0.20	
6.607	18512	12114	0.654	0.03	
6.661	14933	10738	0.719	0.03	
6.719	41018	35242	0.859	0.08	
6.757	25404	19109	0.752	0.05	
6.803	45498	38910	0.855	0.09	
6.844	16962	11928	0.703	0.03	
6.943	11946	8012	0.671	0.02	
7.004	79944	71000	0.888	0.16	
7.123	23375	16034	0.686	0.04	
7.252	30850	26935	0.873	0.06	
7.390	34469	29632	0.860	0.07	
7.444	32787	30120	0.919	0.06	
7.690	15448	14481	0.937	0.03	
7.728	28825	24719	0.858	0.06	
7.769	9434	8649	0.917	0.01	
7.799	14178	14625	1.032	0.02	
7.900	29080	25021	0.860	0.06	
8.273	65187	54580	0.837	0.13	
8.378	20997	16022	0.763	0.04	
8.570	5871940	5016151	0.854	12.41	$ 12 Decachlorobiphenyl
8.940	20881	15234	0.730	0.04	
9.325	31583	12153	0.385	0.06	
9.444	10962	8063	0.736	0.02	
9.821	11608	9568	0.824	0.02	
9.845	18488	18594	1.006	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.873	70198	22333	0.318	0.14	
	47282872	41330637		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 25-APR-2018 14:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6287338	0.05000	0.051			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1265298	0.50000	0.54	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2199333	0.50000	0.53	0.00- 20.00	173.82	BA
4.812	4.812	0.000	1103352	0.50000	0.54	0.00- 20.00	87.20	BA
4.878	4.879	-0.001	2728754	0.50000	0.54	0.00- 20.00	215.66	BA
5.036	5.038	-0.002	1942506	0.50000	0.54	0.00- 20.00	153.52	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5871940	0.05000	0.054			

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\40GCSJ.i\042518.b\042518004.D

Date : 25-APR-2018 14:10

Client ID: 1248-CCV

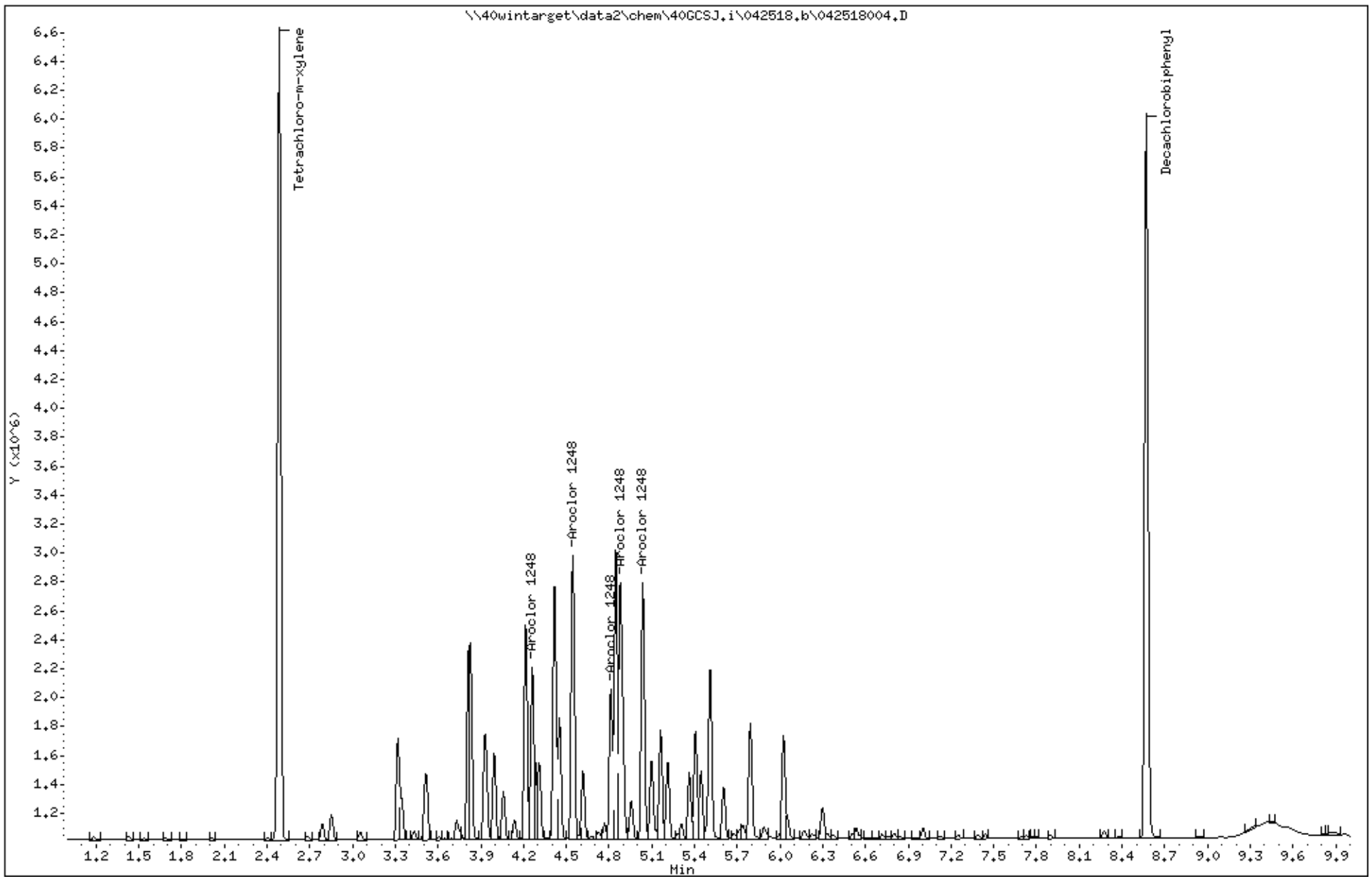
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

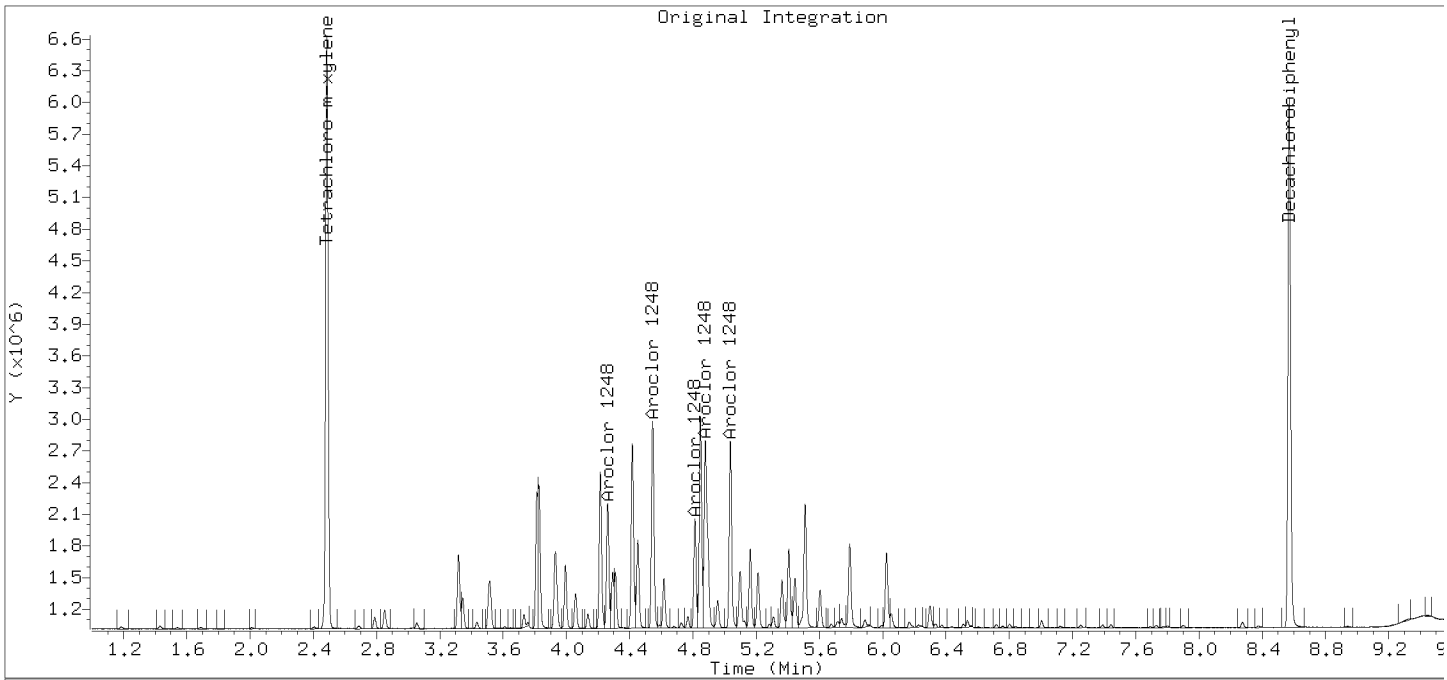
Operator: BLM

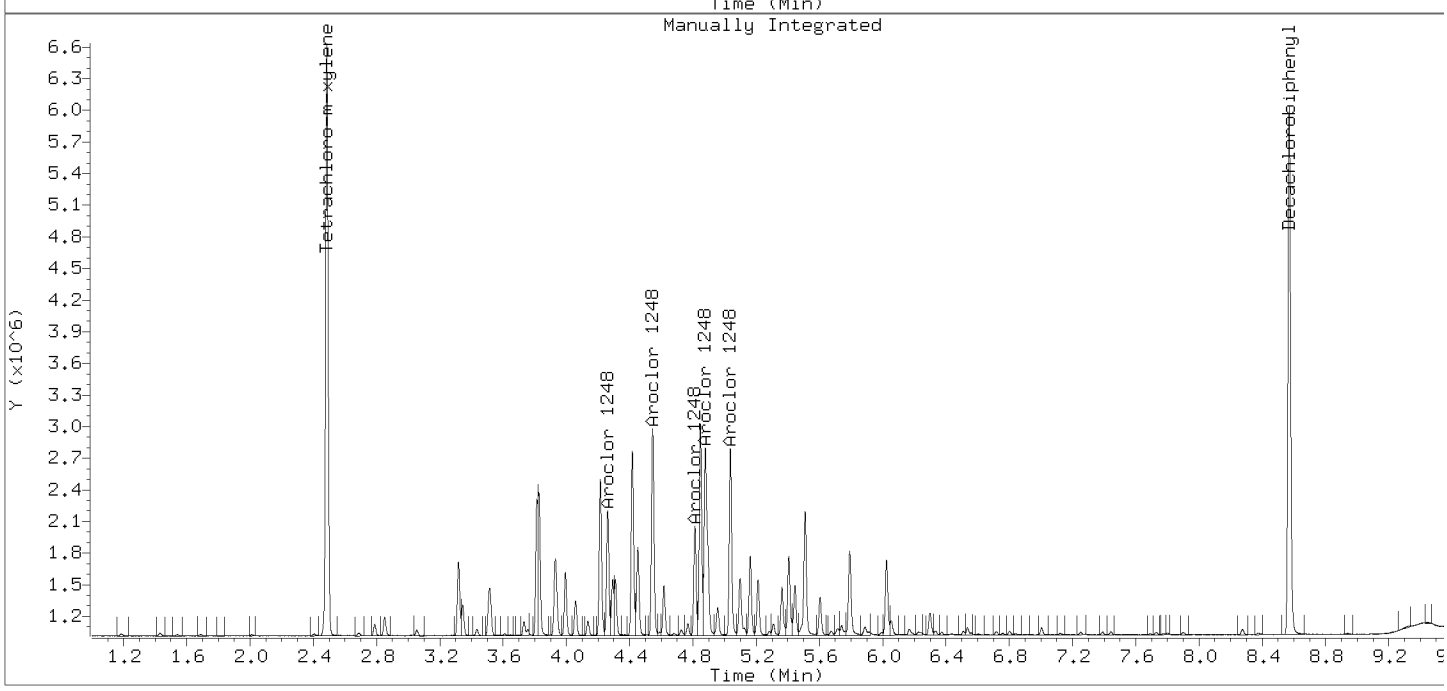
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 25-APR-2018 14:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Tetrachloro-m-xylene	6287338	6287338	
Decachlorobiphenyl	5871940	5871940	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 25-APR-2018 17:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	36304	24569	0.677	0.06		
1.429	43172	29911	0.693	0.07		
1.540	19631	13456	0.685	0.03		
1.688	26198	17078	0.652	0.04		
2.009	25037	15316	0.612	0.04		
2.485	6384586	5808628	0.910	11.52	$ 2 Tetrachloro-m-xylene	
2.787	93242	84625	0.908	0.16		
2.850	28070	20092	0.716	0.04		
3.024	10327	10752	1.041	0.01		
3.053	21657	19040	0.879	0.03		
3.316	38320	28839	0.753	0.06		
3.515	32285	22741	0.704	0.05		
3.608	28766	22088	0.768	0.04		
3.730	9772	10436	1.068	0.01		
3.814	72561	49284	0.679	0.12		
3.935	66488	47191	0.710	0.11		
3.995	36263	30304	0.836	0.06		
4.053	30331	23327	0.769	0.05		
4.137	14120	9720	0.688	0.02		
4.214	1322051	1218699	0.922	2.29		
4.260	353192	333616	0.945	0.61		
4.292	62733	47352	0.755	0.10		
4.416	812424	757878	0.933	1.40		
4.452	87654	74836	0.854	0.15		
4.544	364472	341599	0.937	0.63		
4.591	19431	18501	0.952	0.03		
4.617	67845	61370	0.905	0.11		
4.680	20025	17549	0.876	0.03		
4.768	23983	22741	0.948	0.04		
4.813	312926	292759	0.936	0.54		
4.847	1209519	1130971	0.935	2.09		
4.894	2593361	2037498	0.786	4.49		
4.956	427008	376590	0.882	0.74		
5.037	262979	232882	0.886	0.45		
5.098	1522379	1317033	0.865	2.64		
5.161	2810033	2519004	0.896	4.87	7 Aroclor 1254	BA
5.211	1297947	1150451	0.886	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	66876	66543	0.995	0.11	
5.308	235311	218697	0.929	0.40	
5.361	1119765	1044055	0.932	1.94	
5.406	2332205	1998750	0.857	4.04	7 Aroclor 1254
5.444	806832	709075	0.879	1.39	
5.477	284323	281787	0.991	0.49	
5.510	4196807	3664352	0.873	7.28	7 Aroclor 1254
5.577	43787	37159	0.849	0.07	
5.604	590602	529182	0.896	1.02	
5.674	377952	344894	0.913	0.65	
5.711	590071	371928	0.630	1.02	
5.740	363840	300871	0.827	0.63	
5.789	4273509	3299200	0.772	7.41	
5.883	376805	288543	0.766	0.65	
5.927	210110	129957	0.619	0.36	
5.992	351158	328723	0.936	0.60	
6.026	2665933	2200279	0.825	4.62	7 Aroclor 1254
6.055	1956661	1581096	0.808	3.39	
6.168	771129	635633	0.824	1.33	
6.228	322418	322093	0.999	0.55	
6.239	347562	305167	0.878	0.60	
6.298	3572319	2941165	0.823	6.19	7 Aroclor 1254
6.333	639950	568909	0.889	1.11	
6.374	371074	295643	0.797	0.64	
6.439	95581	55600	0.582	0.16	
6.508	129706	134698	1.038	0.22	
6.534	1217206	911588	0.749	2.11	
6.605	173500	137124	0.790	0.30	
6.659	36313	26509	0.730	0.06	
6.717	229619	199790	0.870	0.39	
6.758	139747	124796	0.893	0.24	
6.801	668899	563783	0.843	1.16	
6.844	192185	122610	0.638	0.33	
6.942	68064	54469	0.800	0.11	
7.004	481000	418107	0.869	0.83	
7.127	18117	12360	0.682	0.03	
7.251	380593	344788	0.906	0.66	
7.282	80539	69884	0.868	0.13	
7.387	17674	17071	0.966	0.03	
7.441	39548	26448	0.669	0.06	
7.551	21646	16397	0.758	0.03	
7.692	15384	14479	0.941	0.02	
7.727	24611	21504	0.874	0.04	
7.777	10788	10513	0.975	0.01	
7.801	21238	16540	0.779	0.03	
7.900	24795	20207	0.815	0.04	
8.274	58000	47823	0.825	0.10	
8.375	17206	12824	0.745	0.02	
8.570	5974884	4919834	0.823	10.36	$ 12 Decachlorobiphenyl
8.941	18694	12077	0.646	0.03	
9.961	21763	12370	0.568	0.03	
	57631387	49026620		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 25-APR-2018 17:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6384585	0.05000	0.052			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2810033	0.50000	0.54	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2332204	0.50000	0.54	0.00- 20.00	83.00	BA
5.509	5.510	-0.001	4196807	0.50000	0.54	0.00- 20.00	149.35	BA
6.026	6.027	-0.001	2665933	0.50000	0.55	0.00- 20.00	94.87	BA
6.297	6.299	-0.002	3572318	0.50000	0.55	0.00- 20.00	127.13	BA
Average of Peak Amounts =					0.54400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5974884	0.05000	0.054			

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\40GCSJ.i\042518.b\042518016.D

Date : 25-APR-2018 17:20

Client ID: 1254-CCV

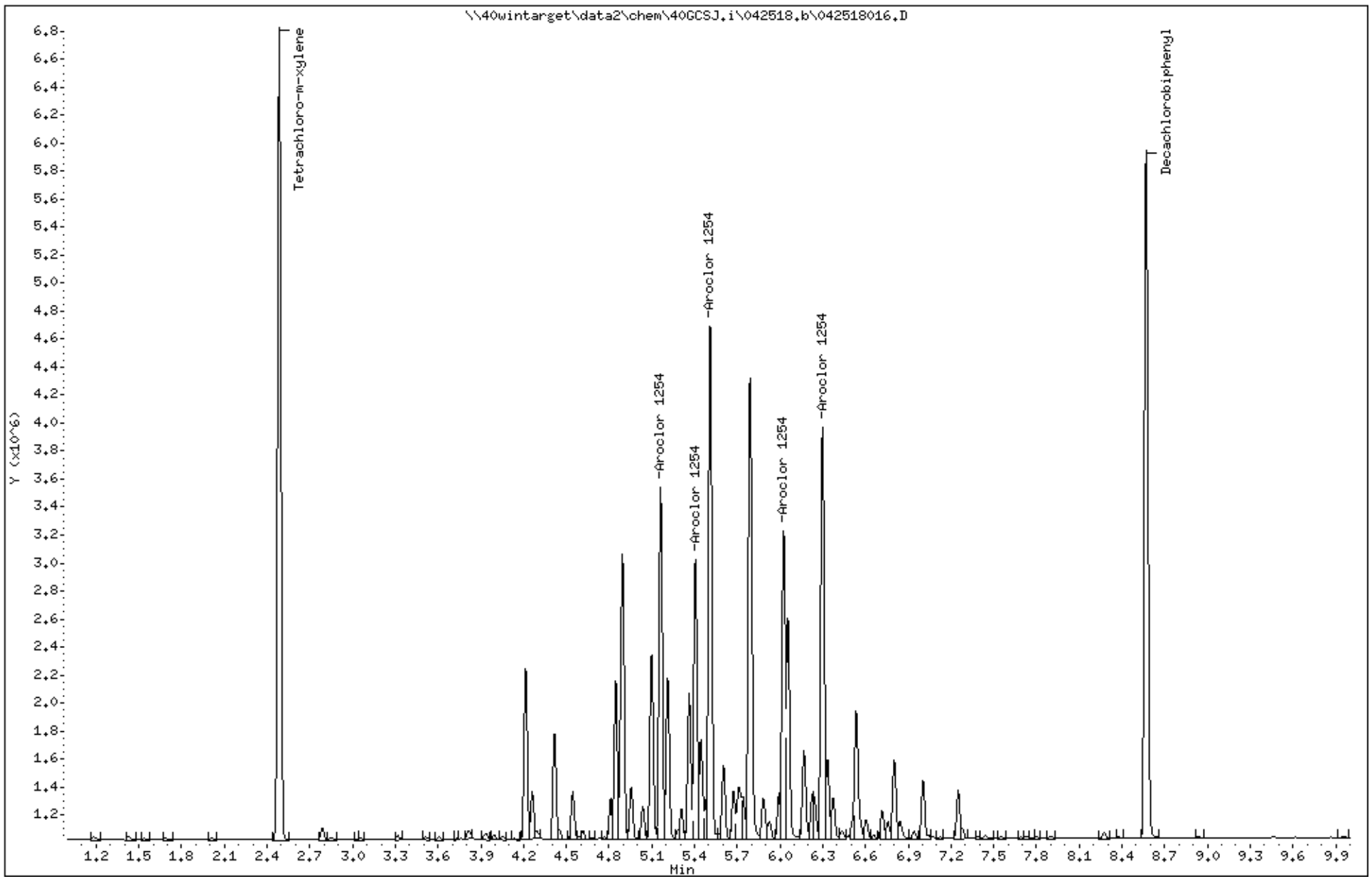
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

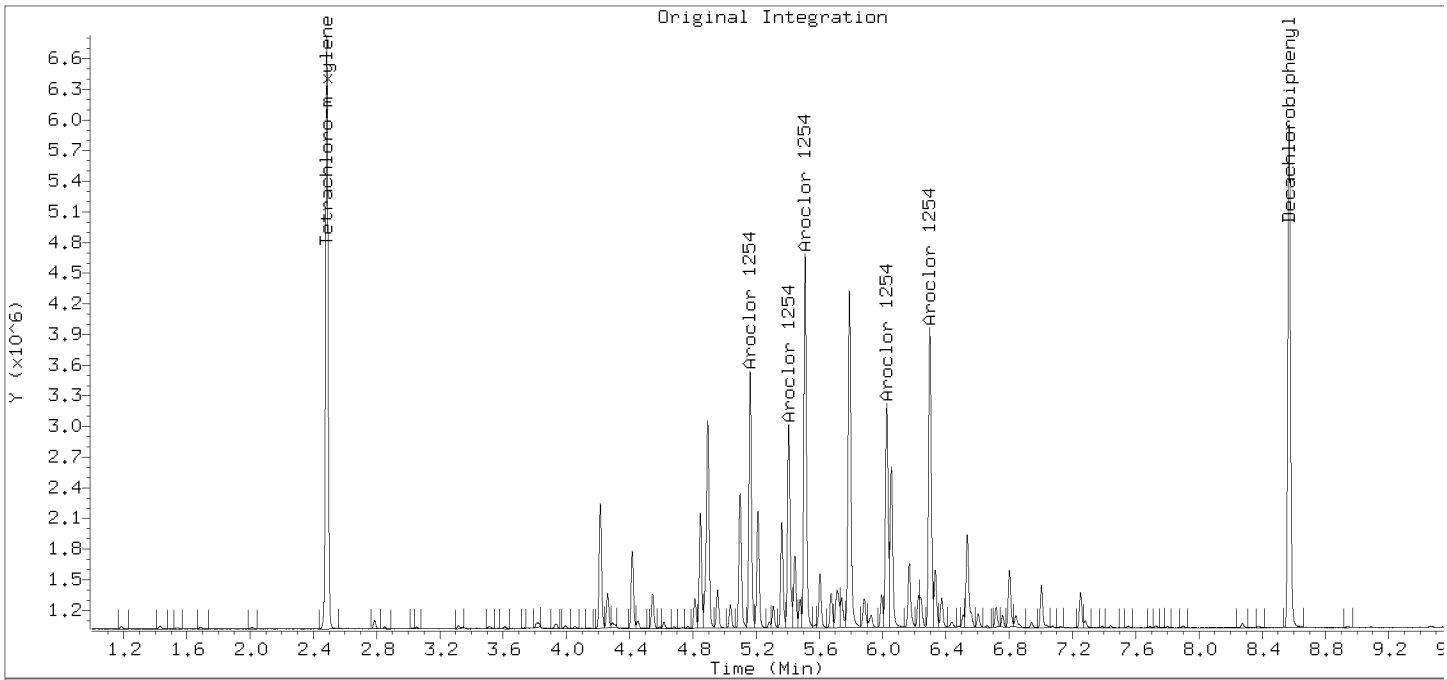
Operator: BLM

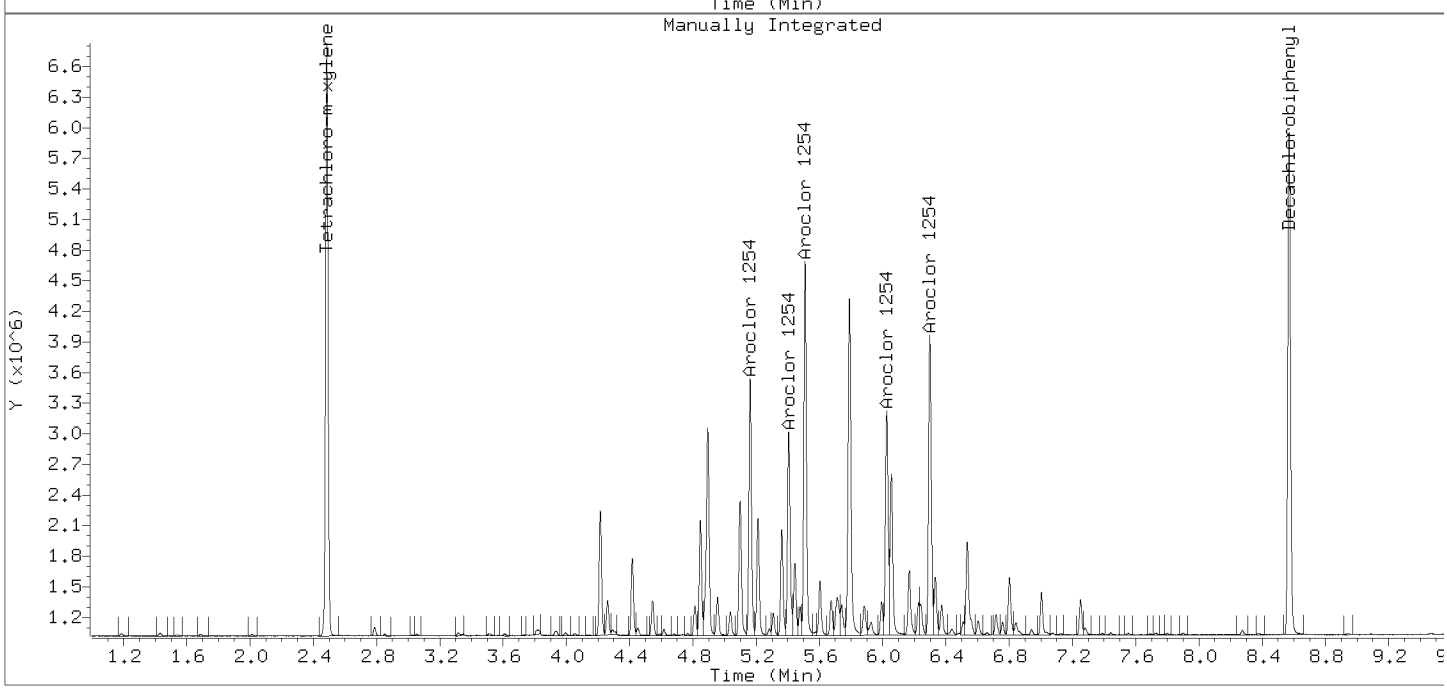
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 25-APR-2018 17:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Tetrachloro-m-xylene	6384585	6384585	
Decachlorobiphenyl	5974884	5974884	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 25-APR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	50291	34912	0.694	0.05		
1.428	36458	30512	0.837	0.04		
1.536	14215	11925	0.839	0.01		
1.685	16984	13954	0.822	0.01		
1.803	19551	13360	0.683	0.02		
2.011	32417	20938	0.646	0.03		
2.405	145537	107275	0.737	0.16		
2.484	6288680	5666221	0.901	7.46	$ 2 Tetrachloro-m-xylene	
2.559	10409	7329	0.704	0.01		
2.687	214897	170120	0.792	0.23		
2.790	319172	291664	0.914	0.35		
2.851	1177056	1051778	0.894	1.30		
3.054	175576	152603	0.869	0.19		
3.278	26423	21324	0.807	0.02		
3.317	1603161	1465685	0.914	1.77	5 Aroclor 1016	BA
3.343	930412	847836	0.911	1.03		
3.433	255350	224439	0.879	0.28		
3.512	1595340	1139817	0.714	1.76	5 Aroclor 1016	BA
3.612	25337	21614	0.853	0.02		
3.647	26764	17376	0.649	0.02		
3.695	46092	44151	0.958	0.05		
3.732	409587	404679	0.988	0.45		
3.755	271586	257619	0.949	0.30		
3.826	4675286	2694776	0.576	5.17	5 Aroclor 1016	BA
3.928	1988961	1639159	0.824	2.20	5 Aroclor 1016	BA
3.994	1344758	1258952	0.936	1.48	5 Aroclor 1016	BA
4.059	383790	335993	0.875	0.42		
4.136	152660	129999	0.852	0.16		
4.215	1158531	1079234	0.932	1.28		
4.260	1043847	992286	0.951	1.15		
4.292	432936	445208	1.028	0.47		
4.309	549397	504404	0.918	0.60		
4.371	33781	24688	0.731	0.03		
4.417	1434351	1310918	0.914	1.58		
4.451	1083866	810300	0.748	1.20		
4.545	1830453	1677550	0.916	2.02		
4.585	21031	25652	1.220	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	415575	387440	0.932	0.46	
4.681	28580	22627	0.792	0.03	
4.725	66653	56097	0.842	0.07	
4.767	60976	51686	0.848	0.06	
4.812	339956	317411	0.934	0.37	
4.847	526394	503798	0.957	0.58	
4.894	1677865	1187472	0.708	1.85	
4.956	109410	86374	0.789	0.12	
5.037	96859	85686	0.885	0.10	
5.100	349571	302923	0.867	0.38	
5.161	1386202	1268612	0.915	1.53	
5.212	66811	52244	0.782	0.07	
5.307	16085	13252	0.824	0.01	
5.363	93348	84553	0.906	0.10	
5.407	395909	342249	0.864	0.43	
5.476	544231	506160	0.930	0.60	
5.509	963751	855561	0.888	1.06	
5.565	11178	11662	1.043	0.01	
5.603	19674	17306	0.880	0.02	
5.675	1400039	1283970	0.917	1.55	
5.708	955553	551142	0.577	1.05	
5.785	3472412	2974664	0.857	3.84	
5.882	238149	213282	0.896	0.26	
5.928	114381	88441	0.773	0.12	
5.994	590189	552770	0.937	0.65	
6.029	1336080	1261792	0.944	1.47	
6.056	3885098	3333147	0.858	4.30	
6.167	2471504	1595261	0.645	2.73	
6.255	563431	320247	0.568	0.62	
6.299	4713719	3809268	0.808	5.22	8 Aroclor 1260
6.334	688703	614388	0.892	0.76	
6.372	185136	137413	0.742	0.20	
6.432	484442	419689	0.866	0.53	
6.491	115737	129710	1.121	0.12	
6.509	2291166	2034376	0.888	2.53	
6.535	428097	460361	1.075	0.47	
6.560	1432073	1243755	0.868	1.58	
6.606	164216	123273	0.751	0.18	
6.660	452473	408442	0.903	0.50	
6.718	2457406	2208259	0.899	2.72	
6.758	1394164	1199854	0.861	1.54	
6.802	1149924	977609	0.850	1.27	
6.838	222597	185476	0.833	0.24	
6.865	108521	94175	0.868	0.12	
6.911	156081	143860	0.922	0.17	
6.941	495134	435973	0.881	0.54	
7.005	5411224	4778681	0.883	5.99	8 Aroclor 1260
7.035	365718	361448	0.988	0.40	
7.073	178482	137338	0.769	0.19	
7.120	245376	205133	0.836	0.27	
7.222	10890	11988	1.101	0.01	
7.251	2596239	2276787	0.877	2.87	8 Aroclor 1260
7.281	766588	617596	0.806	0.84	
7.388	1301509	1059475	0.814	1.44	
7.442	1570586	1335952	0.851	1.73	8 Aroclor 1260
7.553	122079	84149	0.689	0.13	
7.690	632730	552660	0.873	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.726	99874	81876	0.820	0.11	
7.798	71259	59312	0.832	0.07	
7.901	1436573	1210941	0.843	1.59	8 Aroclor 1260
7.964	109597	79194	0.723	0.12	
8.274	367978	301425	0.819	0.40	
8.375	25190	16677	0.662	0.02	
8.570	5958663	4873779	0.818	6.59	$ 12 Decachlorobiphenyl
8.942	24044	16119	0.670	0.02	
9.463	18070	14291	0.791	0.02	
9.958	23626	17624	0.746	0.02	
	90296692	75992405		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 25-APR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6288680	0.05000	0.051			
5 Aroclor 1016						CAS #: 12674-11-2		
3.317	3.318	-0.001	1603161	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.511	3.512	-0.001	1595340	0.50000	0.51	0.00- 20.00	99.51	BA
3.825	3.826	-0.001	4675285	0.50000	0.53	0.00- 20.00	291.63	BA
3.928	3.929	-0.001	1988960	0.50000	0.53	0.00- 20.00	124.06	BA
3.993	3.994	-0.001	1344758	0.50000	0.52	0.00- 20.00	83.88	BA
Average of Peak Amounts =					0.52200			
8 Aroclor 1260						CAS #: 11096-82-5		
6.298	6.300	-0.002	4713718	0.50000	0.53	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	5411223	0.50000	0.54	0.00- 20.00	114.80	BA
7.250	7.251	-0.001	2596239	0.50000	0.54	0.00- 20.00	55.08	BA
7.441	7.443	-0.002	1570585	0.50000	0.54	0.00- 20.00	33.32	BA
7.900	7.901	-0.001	1436573	0.50000	0.54	0.00- 20.00	30.48	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5958663	0.05000	0.054			

QC Flag Legend

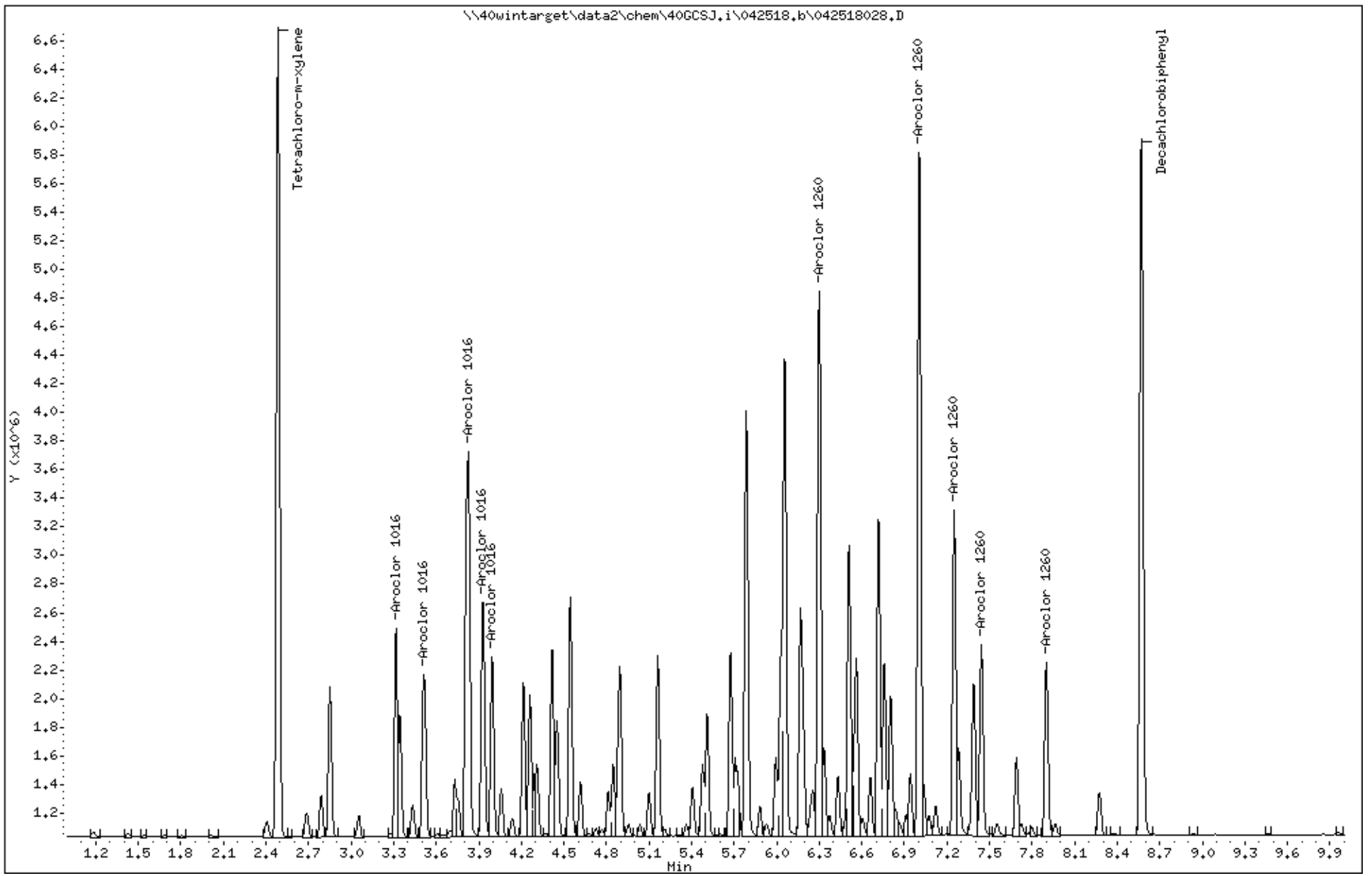
M - Compound response manually integrated.

Review Codes Legend

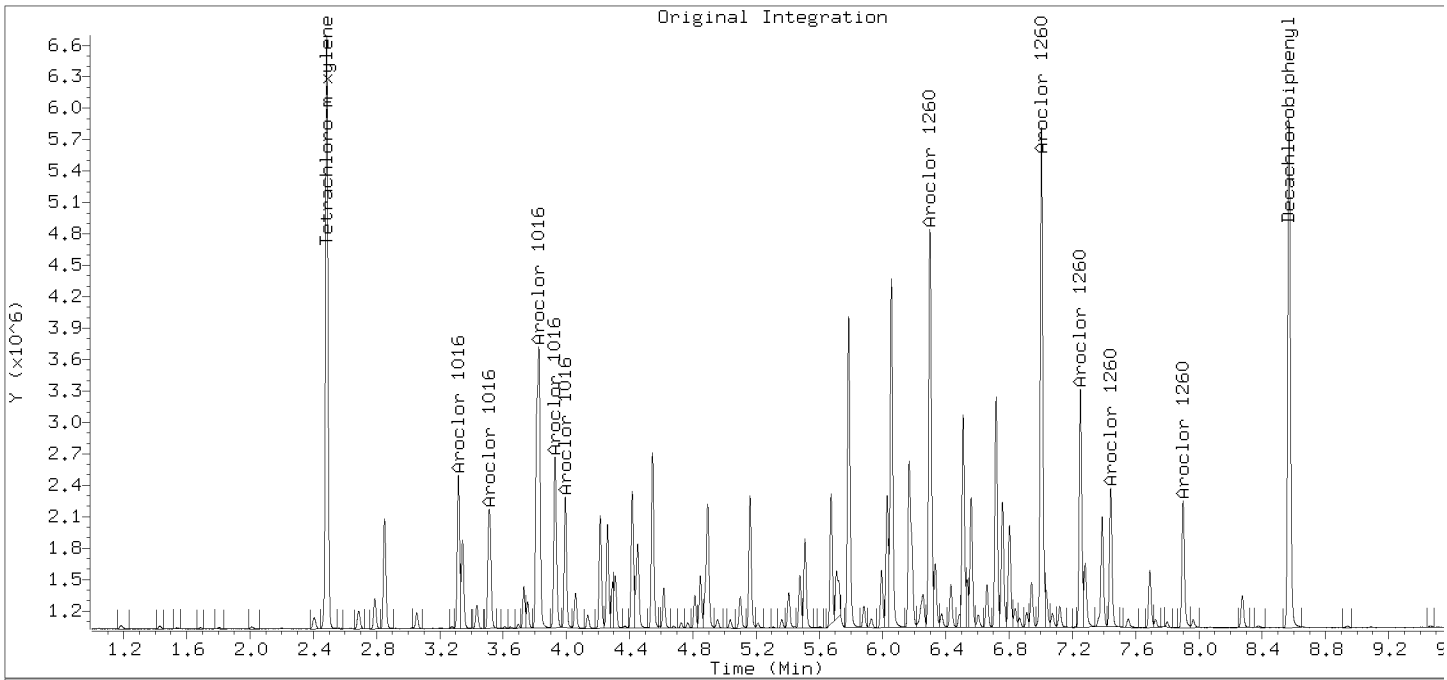
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

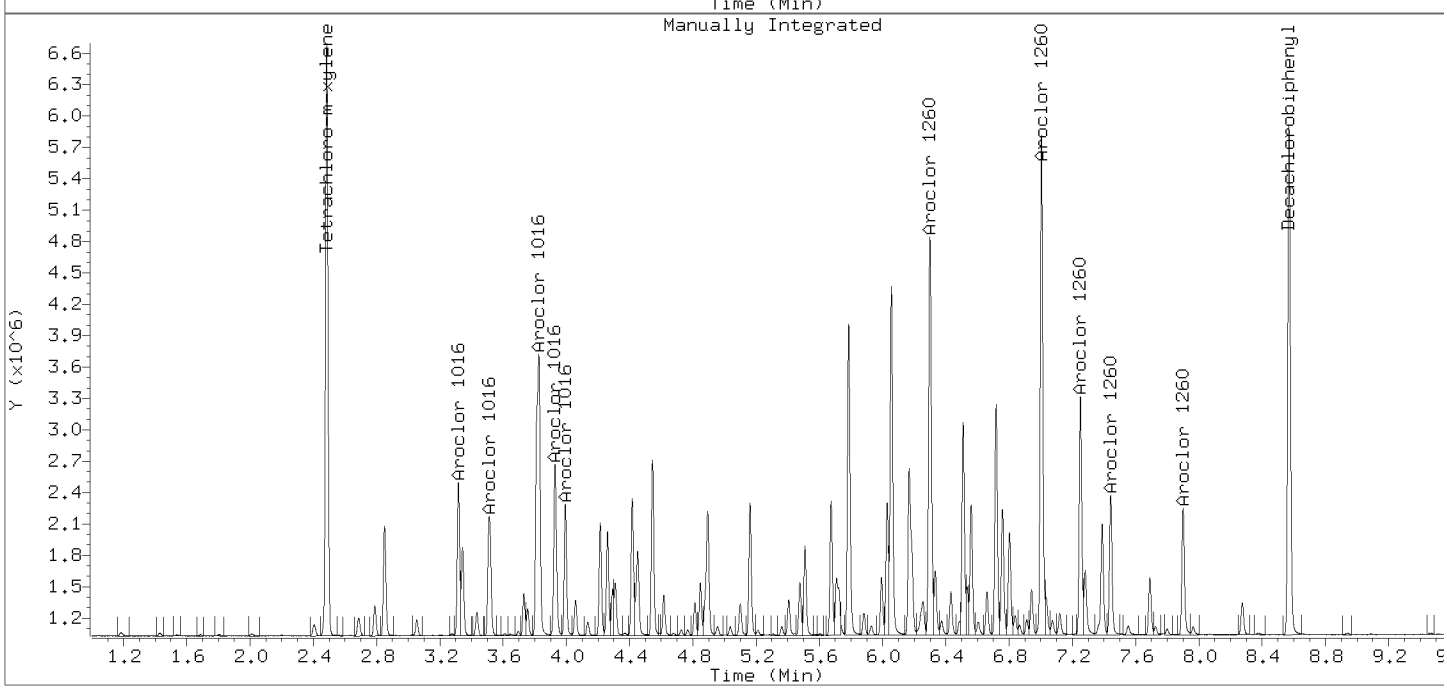
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518028.D
Date : 25-APR-2018 20:30
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 25-APR-2018 20:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1593603	1603161	BA
Aroclor 1016	1593603	1603161	BA
Aroclor 1016	1593603	1603161	BA
Aroclor 1016	1593603	1603161	BA
Aroclor 1016	1593603	1603161	BA
Aroclor 1260	4687444	4713718	BA
Aroclor 1260	4687444	4713718	BA
Aroclor 1260	4687444	4713718	BA
Aroclor 1260	4687444	4713718	BA
Aroclor 1260	4687444	4713718	BA
Tetrachloro-m-xylene	6288680	6288680	
Decachlorobiphenyl	5958663	5958663	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518035.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 25-APR-2018 22:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 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
1.187	34148	23043	0.675	0.19			
1.427	29492	24563	0.833	0.16			
1.537	15799	13774	0.872	0.08			
1.687	20647	15970	0.773	0.11			
1.805	515401	416781	0.809	2.88		1 Aroclor 1221	BA
2.009	24702	16530	0.669	0.13			
2.159	12176	10422	0.856	0.06			
2.198	165395	136342	0.824	0.92			
2.406	262786	191463	0.729	1.46		1 Aroclor 1221	BA
2.485	6021012	5473907	0.909	33.92	$	2 Tetrachloro-m-xylene	BA
2.689	709644	570627	0.804	3.96		1 Aroclor 1221	BA
2.789	552223	502701	0.910	3.08		1 Aroclor 1221	BA
2.851	1695053	1448626	0.855	9.47		1 Aroclor 1221	BA
3.055	38809	30337	0.782	0.21			
3.282	124506	93146	0.748	0.69			
3.325	402183	228912	0.569	2.24			
3.433	35885	32019	0.892	0.20			
3.512	145639	104711	0.719	0.81			
3.610	18258	19772	1.083	0.10			
3.696	9736	10913	1.121	0.05			
3.730	39611	40271	1.017	0.22			
3.755	41570	38987	0.938	0.23			
3.826	343165	203451	0.593	1.91			
3.927	162673	133084	0.818	0.90			
3.995	99723	92581	0.928	0.55			
4.054	24202	19431	0.803	0.13			
4.134	9789	7159	0.731	0.05			
4.214	37690	33418	0.887	0.21			
4.259	29135	31204	1.071	0.16			
4.291	12442	10672	0.858	0.06			
4.417	34806	36126	1.038	0.19			
4.442	30841	20909	0.678	0.17			
4.546	58710	49215	0.838	0.32			
4.618	15142	13470	0.890	0.08			
4.814	22832	20671	0.905	0.12			
4.848	37824	33761	0.893	0.21			
4.880	54003	37335	0.691	0.30			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	33842	30517	0.902	0.18	
5.093	10268	7231	0.704	0.05	
5.159	11565	10953	0.947	0.06	
5.510	14314	12074	0.843	0.08	
5.607	9238	7497	0.812	0.05	
5.793	12863	9430	0.733	0.07	
7.726	24698	21270	0.861	0.13	
7.801	23982	14909	0.622	0.13	
8.275	54670	42137	0.771	0.30	
8.378	16321	13416	0.822	0.09	
8.570	5754129	4806472	0.835	32.17	$ 12 Decachlorobiphenyl
8.934	19972	11788	0.590	0.11	
9.957	10403	10525	1.012	0.05	
	17883918	15184523		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518035.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 25-APR-2018 22:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 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				
2.484	2.484	0.000	6021011	0.05000	0.049			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.805	1.804	0.001	515401	0.50000	0.49	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	262786	0.50000	0.48	0.00- 20.00	50.99		BA
2.688	2.688	0.000	709644	0.50000	0.51	0.00- 20.00	137.69		BA
2.789	2.789	0.000	552223	0.50000	0.50	0.00- 20.00	107.14		BA
2.850	2.851	-0.001	1695053	0.50000	0.52	0.00- 20.00	328.88		BA
Average of Peak Amounts =					0.50000				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.570	8.571	-0.001	5754128	0.05000	0.052				

QC Flag Legend

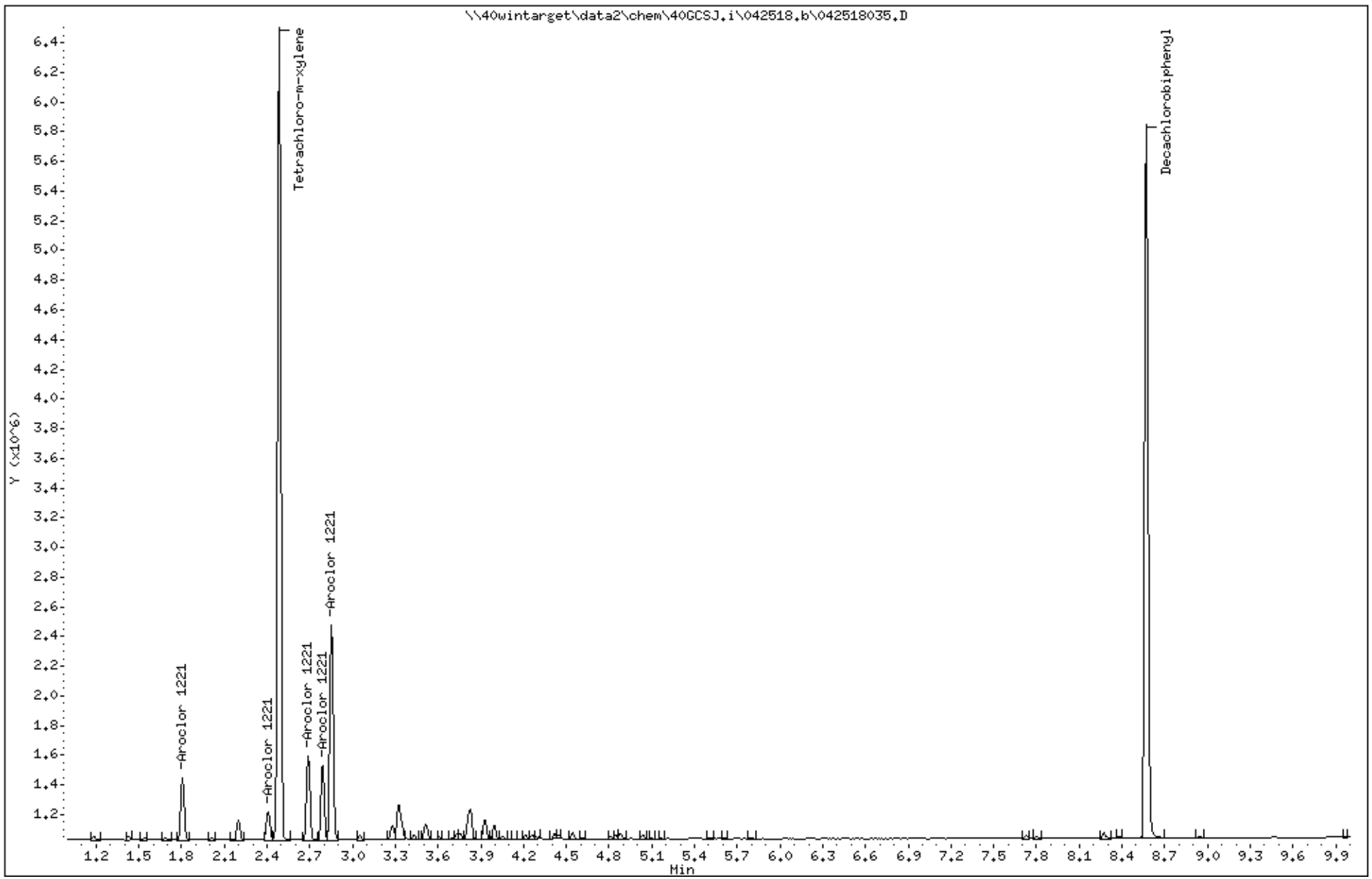
M - Compound response manually integrated.

Review Codes Legend

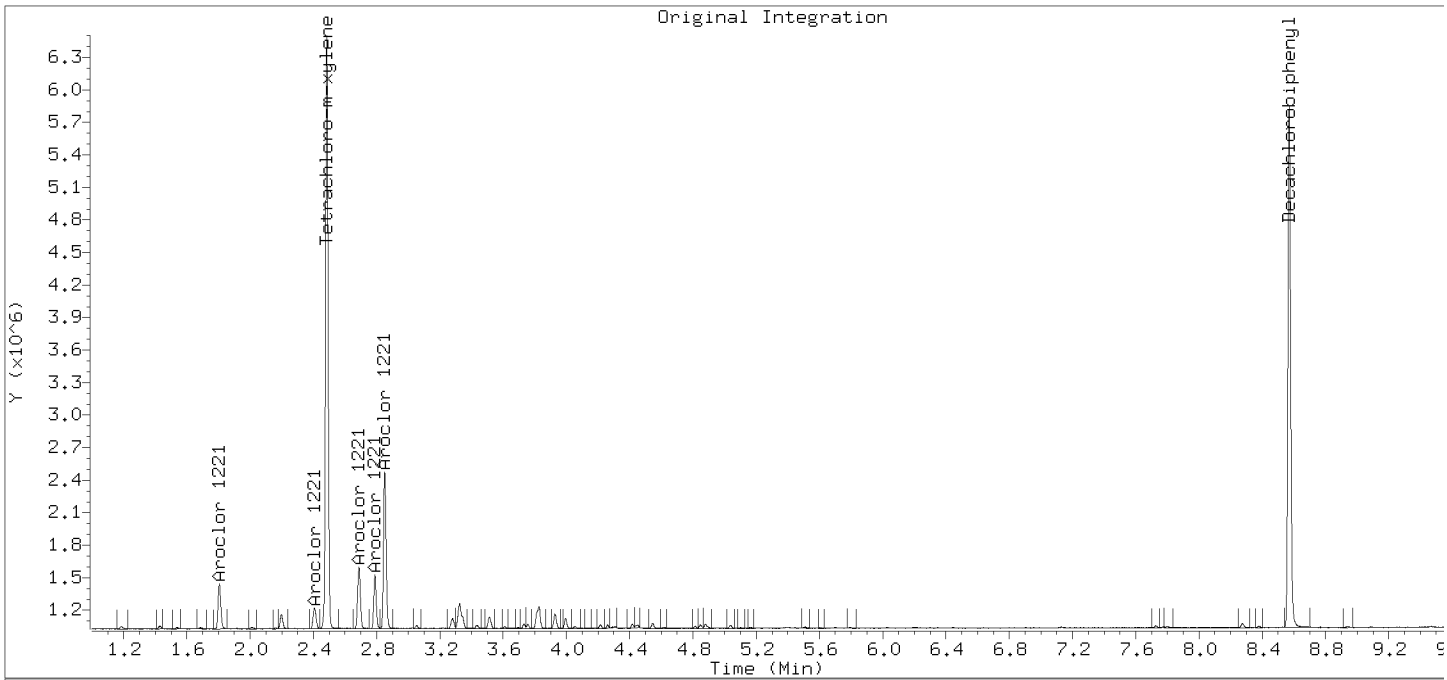
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

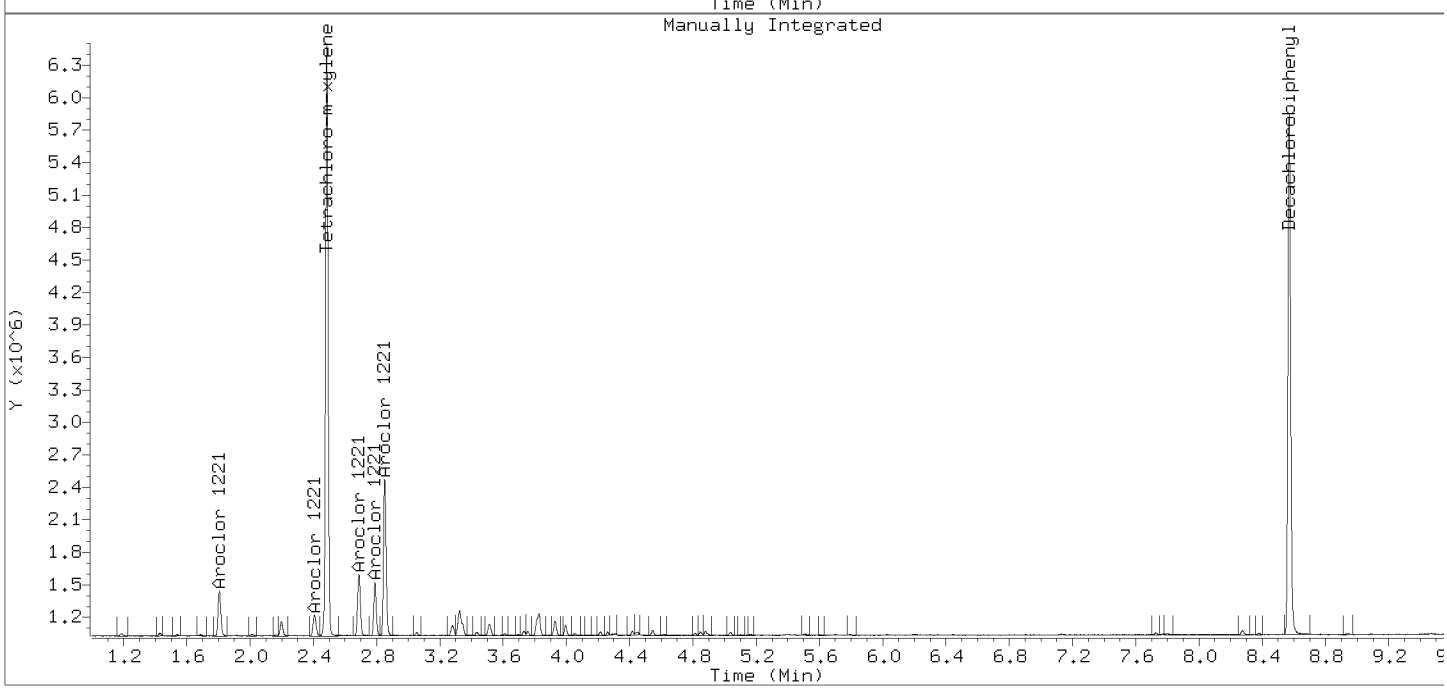
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518035.D
Date : 25-APR-2018 22:21
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518035.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 25-APR-2018 22:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	506652	515401	BA
Aroclor 1221	506652	515401	BA
Aroclor 1221	506652	515401	BA
Aroclor 1221	506652	515401	BA
Aroclor 1221	506652	515401	BA
Tetrachloro-m-xylene	6004206	6021011	BA
Decachlorobiphenyl	5754128	5754128	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.207	10135	9331	0.921	0.05		
1.463	33399	34615	1.036	0.18		
1.575	17542	14570	0.831	0.09		
1.853	503874	494618	0.982	2.80	1 Aroclor 1221	BA
2.257	158186	139208	0.880	0.88		
2.472	262546	197513	0.752	1.46	1 Aroclor 1221	BA
2.549	5737220	5706394	0.995	31.96	$ 2 Tetrachloro-m-xylene	BA
2.758	717206	552377	0.770	3.99	1 Aroclor 1221	BA
2.861	552574	499469	0.904	3.07	1 Aroclor 1221	BA
2.924	1736998	1460097	0.841	9.67	1 Aroclor 1221	BA
3.129	36897	29553	0.801	0.20		
3.360	104991	80618	0.768	0.58		
3.405	393120	182077	0.463	2.19		
3.514	34555	28693	0.830	0.19		
3.594	137761	102991	0.748	0.76		
3.689	34161	33255	0.973	0.19		
3.815	33693	34208	1.015	0.18		
3.839	39250	34125	0.869	0.21		
3.910	326318	181143	0.555	1.81		
4.013	164038	127239	0.776	0.91		
4.079	97856	80038	0.818	0.54		
4.139	19294	12630	0.655	0.10		
4.298	32817	31230	0.952	0.18		
4.345	27622	28227	1.022	0.15		
4.504	43682	39992	0.916	0.24		
4.537	47300	32921	0.696	0.26		
4.632	62207	47040	0.756	0.34		
4.706	13166	12292	0.934	0.07		
4.900	20123	16804	0.835	0.11		
4.933	35882	28983	0.808	0.19		
4.967	49699	29730	0.598	0.27		
5.127	29261	25198	0.861	0.16		
5.595	16467	11253	0.683	0.09		
7.815	13184	17004	1.290	0.07		
7.887	10745	11079	1.031	0.05		
8.364	48778	41142	0.843	0.27		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.658	6313893	5197016	0.823	35.38	$ 12 Decachlorobiphenyl
9.004	19528	13755	0.704	0.10	
9.528	11239	10915	0.971	0.06	
	17947208	15629343		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	5737220	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.852	1.853	-0.001	503874	0.50000	0.51	0.00- 20.00	100.00(M)	BA
2.472	2.471	0.001	262545	0.50000	0.50	0.00- 20.00	52.11	BA
2.757	2.758	-0.001	717206	0.50000	0.52	0.00- 20.00	142.34	BA
2.861	2.860	0.001	552574	0.50000	0.50	0.00- 20.00	109.67	BA
2.924	2.923	0.001	1736998	0.50000	0.52	0.00- 20.00	344.73	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	6313893	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D

Date : 03-MAY-2018 18:58

Client ID: 1221-ICV

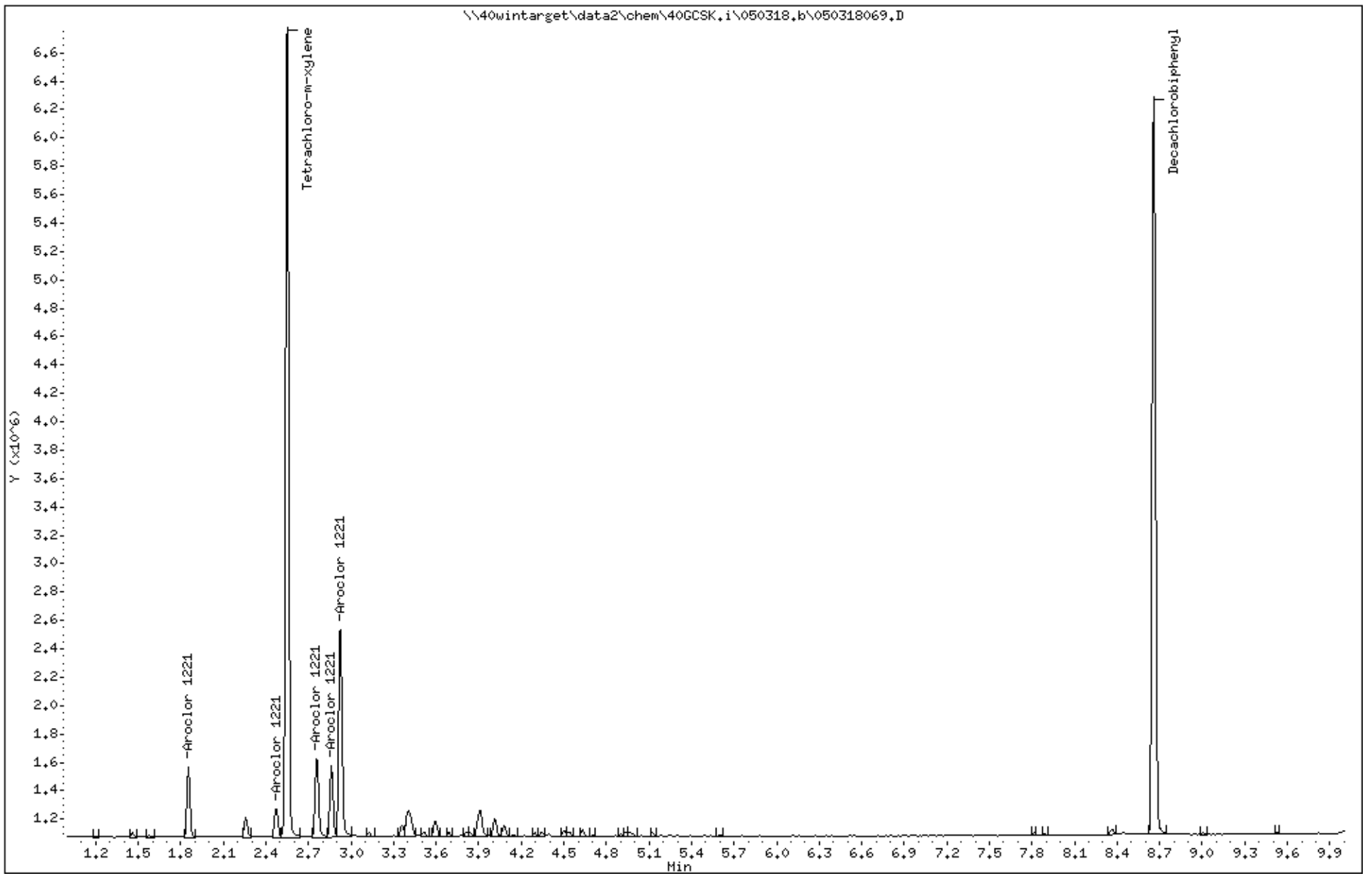
Instrument: 40GCSK.i

Sample Info: 1221-ICV, 188142:1

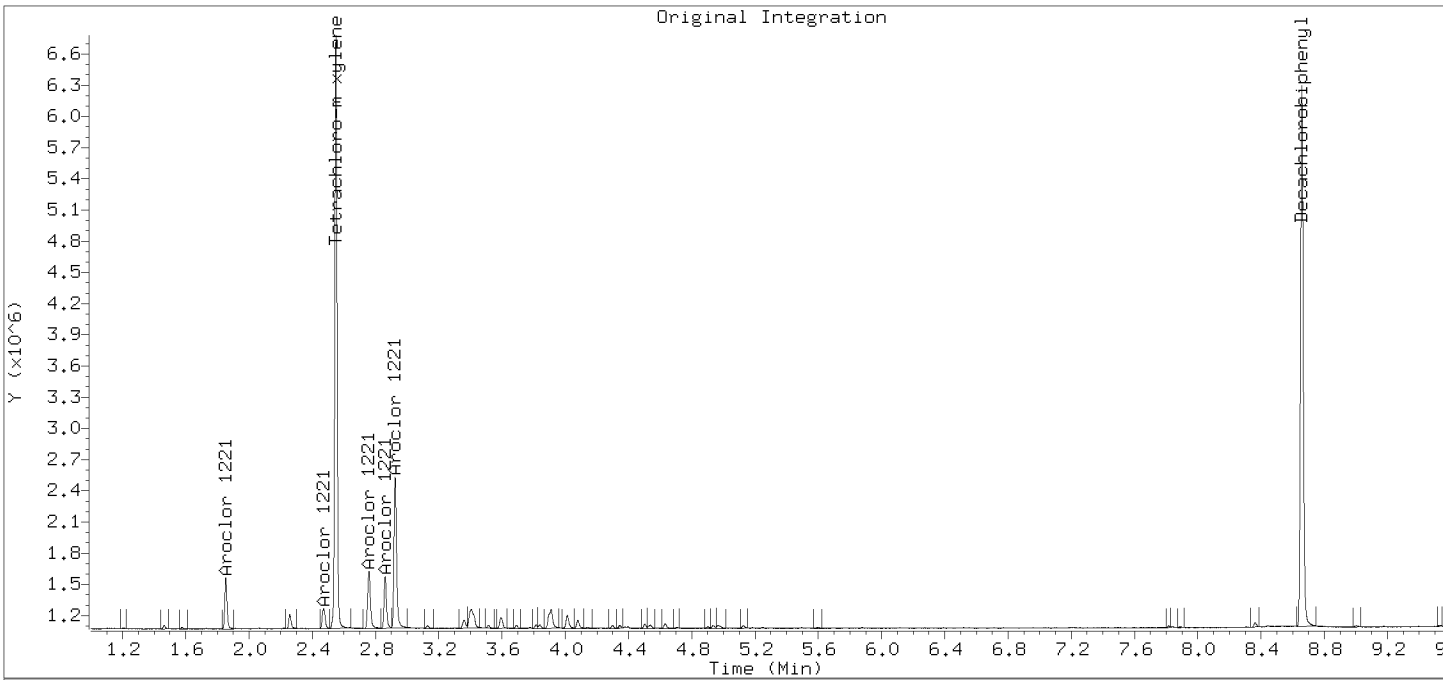
Operator: BLM

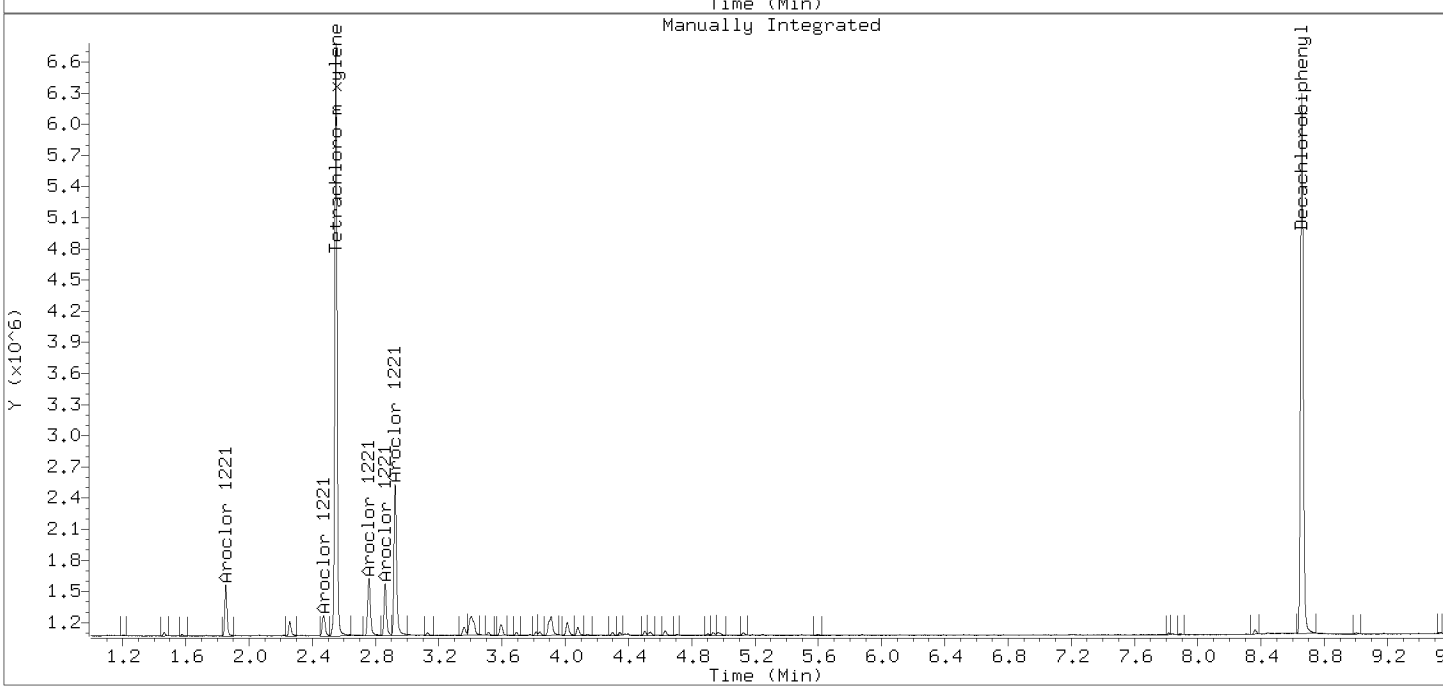
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318069.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-MAY-2018 18:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Tetrachloro-m-xylene	5693206	5737220	BA
Decachlorobiphenyl	6313893	6313893	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	35844	32368	0.903	0.09		
1.573	12277	13515	1.101	0.03		
1.855	13915	13578	0.976	0.03		
2.469	123641	99090	0.801	0.31		
2.548	5478863	5513963	1.006	14.02	$ 2 Tetrachloro-m-xylene	
2.756	176106	135858	0.771	0.45		
2.860	267820	244962	0.915	0.68		
2.923	969700	871908	0.899	2.48		
3.130	133618	125837	0.942	0.34		
3.358	17584	13995	0.796	0.04		
3.395	1238781	1167381	0.942	3.17	3 Aroclor 1242	BA
3.421	765819	693705	0.906	1.95		
3.512	208025	179412	0.862	0.53		
3.593	1266139	927695	0.733	3.24	3 Aroclor 1242	BA
3.690	44178	35695	0.808	0.11		
3.776	33544	30658	0.914	0.08		
3.812	301547	295558	0.980	0.77		
3.837	225630	189949	0.842	0.57		
3.908	3676183	2044328	0.556	9.40	3 Aroclor 1242	BA
4.011	1596102	1247807	0.782	4.08	3 Aroclor 1242	BA
4.078	1068001	925745	0.867	2.73	3 Aroclor 1242	BA
4.142	321981	254278	0.790	0.82		
4.221	125370	104037	0.830	0.32		
4.298	841555	771015	0.916	2.15		
4.344	793916	748154	0.942	2.03		
4.376	315909	328421	1.040	0.80		
4.393	433556	372521	0.859	1.10		
4.458	31124	20639	0.663	0.07		
4.501	1109212	1023415	0.923	2.83		
4.536	927315	663293	0.715	2.37		
4.630	1437315	1270850	0.884	3.67		
4.703	352433	299019	0.848	0.90		
4.763	26140	19304	0.738	0.06		
4.813	74483	54965	0.738	0.19		
4.854	76111	68339	0.898	0.19		
4.898	642501	599914	0.934	1.64		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.933	1189632	1086480	0.913	3.04	
4.964	1585444	1088926	0.687	4.05	
5.044	193808	125081	0.645	0.49	
5.124	1287043	1106454	0.860	3.29	
5.186	285073	204208	0.716	0.72	
5.247	298428	246314	0.825	0.76	
5.298	224255	179959	0.802	0.57	
5.368	18579	18212	0.980	0.04	
5.396	48640	39736	0.817	0.12	
5.450	177459	151389	0.853	0.45	
5.494	308823	255444	0.827	0.79	
5.532	199856	165365	0.827	0.51	
5.596	526300	386988	0.735	1.34	
5.693	157265	131789	0.838	0.40	
5.760	26821	16575	0.618	0.06	
5.799	21934	21663	0.988	0.05	
5.828	42234	31503	0.746	0.10	
5.878	353196	242396	0.686	0.90	
5.978	47132	28120	0.597	0.12	
6.113	339947	224601	0.661	0.86	
6.254	24579	16569	0.674	0.06	
6.388	63419	54698	0.862	0.16	
6.417	12340	12413	1.006	0.03	
6.593	10963	10303	0.940	0.02	
6.624	30366	20043	0.660	0.07	
6.894	14033	11760	0.838	0.03	
7.089	17453	15010	0.860	0.04	
7.816	20478	18550	0.906	0.05	
7.841	32277	24888	0.771	0.08	
8.360	51166	42588	0.832	0.13	
8.440	56079	36321	0.648	0.14	
8.658	6048946	5104647	0.844	15.79	$ 12 Decachlorobiphenyl
9.001	79156	50822	0.642	0.20	
9.526	120210	70478	0.586	0.30	
	39075573	32641464		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.548	2.549	-0.001	5478863	0.05000	0.045			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1238781	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	1266139	0.50000	0.51	0.00- 20.00	102.21	BA
3.908	3.909	-0.001	3676183	0.50000	0.51	0.00- 20.00	296.76	BA
4.010	4.011	-0.001	1596102	0.50000	0.51	0.00- 20.00	128.84	BA
4.077	4.078	-0.001	1068001	0.50000	0.51	0.00- 20.00	86.21	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6048946	0.05000	0.045			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

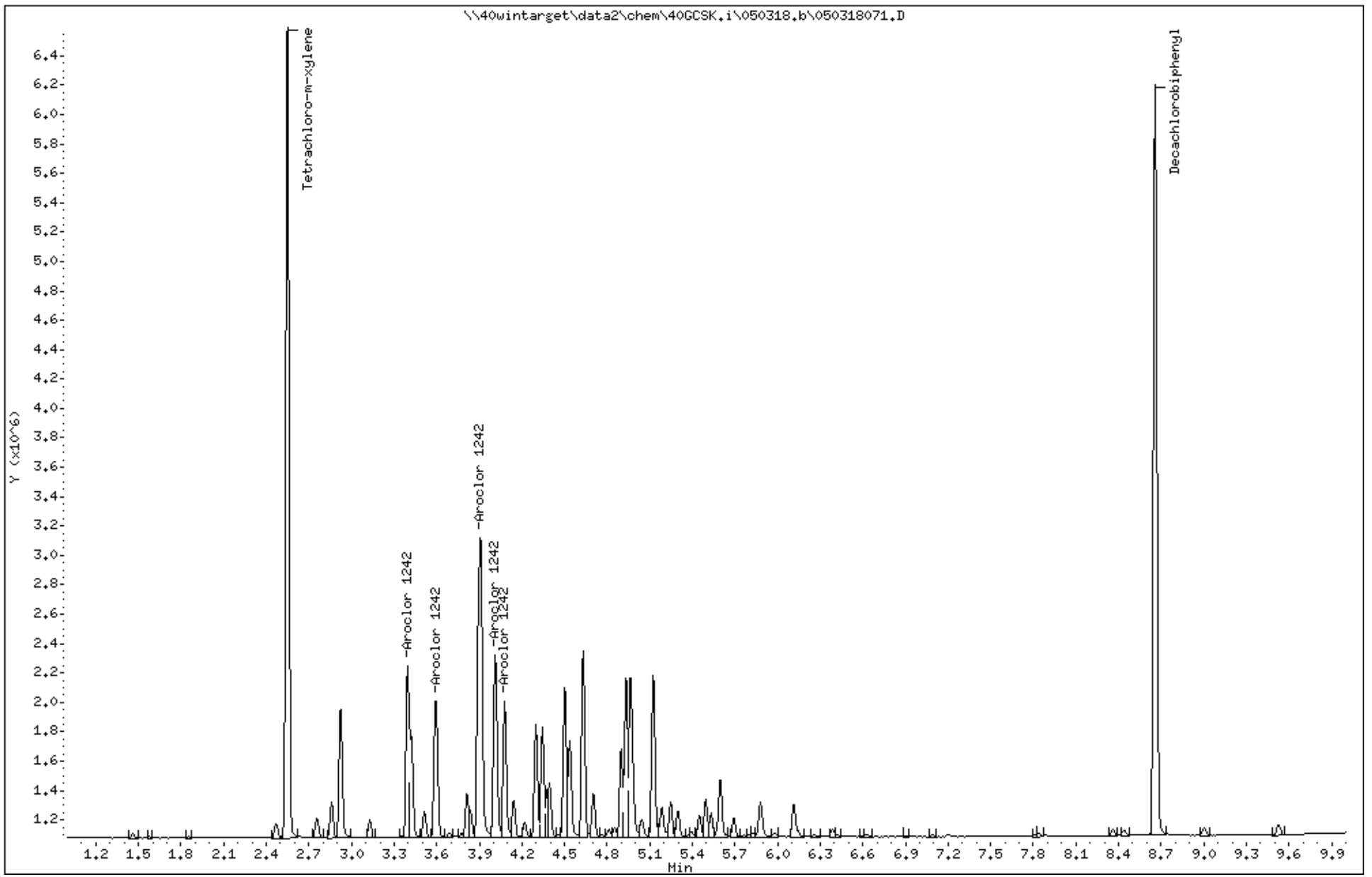
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

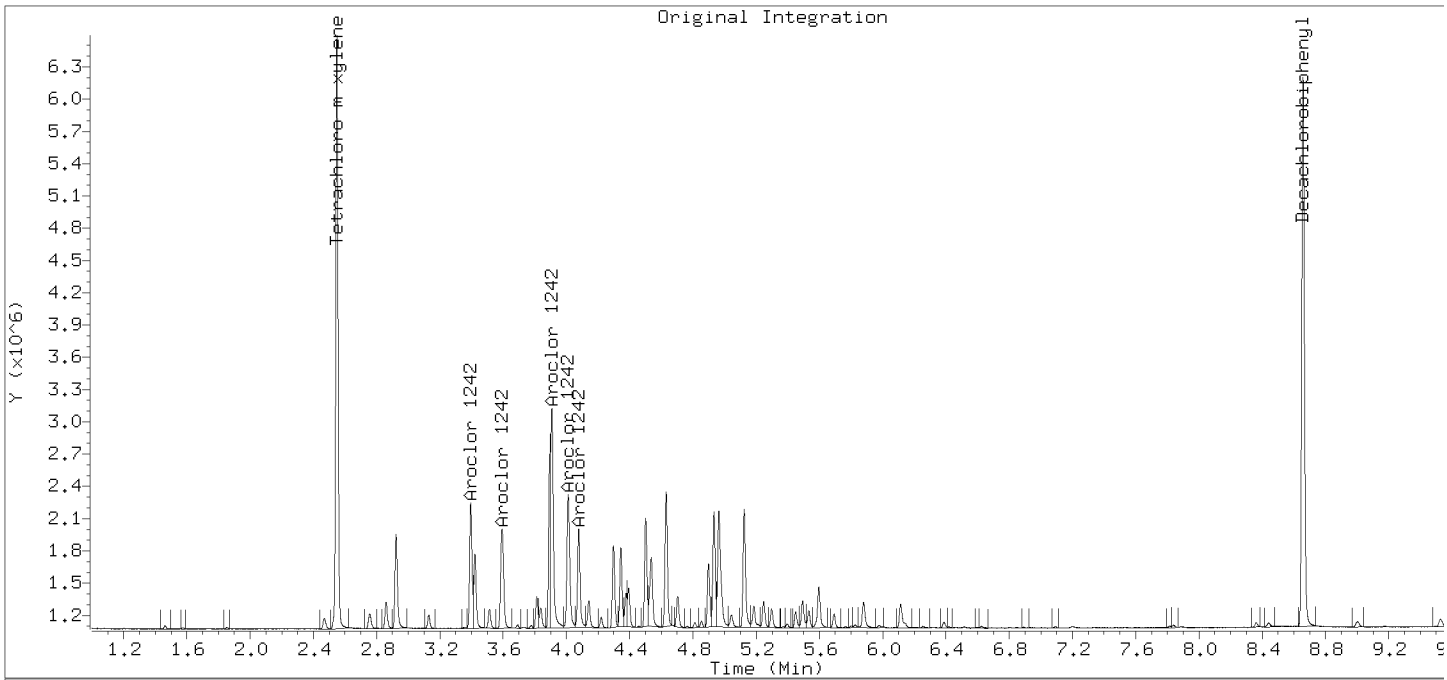
Instrument: 40GCSK.i

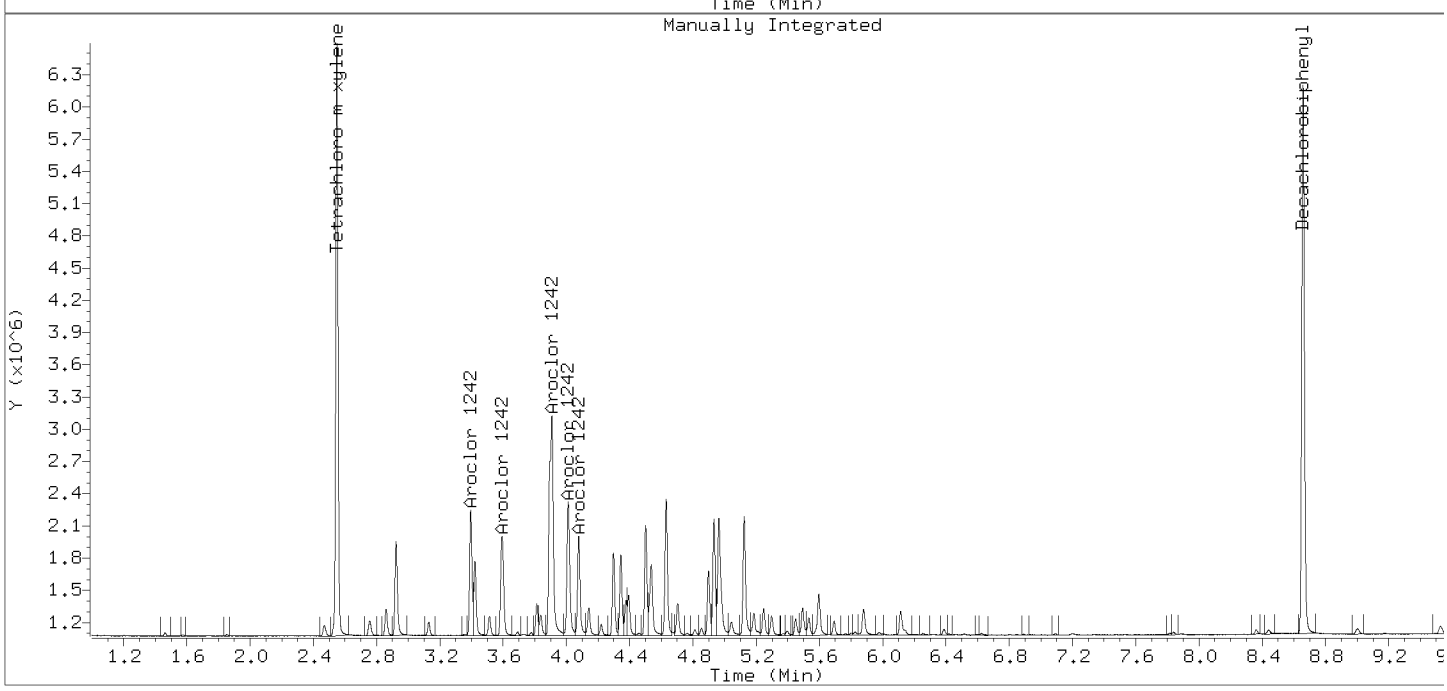
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318071.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 03-MAY-2018 19:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Tetrachloro-m-xylene	5478863	5478863	
Decachlorobiphenyl	6048946	6048946	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.201	13077	11111	0.850	0.02		
1.462	40308	33423	0.829	0.08		
1.577	14087	13915	0.988	0.03		
2.550	5700485	5690886	0.998	12.26	$ 2 Tetrachloro-m-xylene	
2.857	96917	86462	0.892	0.20		
2.923	99052	81130	0.819	0.21		
3.129	46038	43514	0.945	0.09		
3.396	642155	631729	0.984	1.38		
3.422	279406	240309	0.860	0.60		
3.513	47670	43518	0.913	0.10		
3.595	527858	379953	0.720	1.13		
3.689	38993	36122	0.926	0.08		
3.814	131939	95879	0.727	0.28		
3.896	1026878	1125360	1.096	2.21		
3.908	1318198	1163514	0.883	2.83		
4.014	873398	635447	0.728	1.87		
4.078	576997	486531	0.843	1.24		
4.142	375813	332174	0.884	0.80		
4.220	154503	133758	0.866	0.33		
4.298	1545431	1408016	0.911	3.32		
4.344	1268942	1177626	0.928	2.73	6 Aroclor 1248	BA
4.377	509119	545631	1.072	1.09		
4.393	654561	542912	0.829	1.40		
4.501	1870533	1736730	0.928	4.02		
4.537	1017858	831513	0.817	2.19		
4.630	2233067	1945005	0.871	4.80	6 Aroclor 1248	BA
4.703	533791	462216	0.866	1.14		
4.763	38285	26426	0.690	0.08		
4.811	70035	50273	0.718	0.15		
4.853	121261	105557	0.870	0.26		
4.898	1109631	1062433	0.957	2.38	6 Aroclor 1248	BA
4.932	2167426	1954051	0.902	4.66		
4.965	2910130	1804455	0.620	6.26	6 Aroclor 1248	BA
5.043	395059	272984	0.691	0.85		
5.124	2041506	1732611	0.849	4.39	6 Aroclor 1248	BA
5.185	667983	564724	0.845	1.43		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	84240	87652	1.041	0.18	
5.247	852365	736449	0.864	1.83	
5.298	652235	543651	0.834	1.40	
5.367	50821	41542	0.817	0.10	
5.394	138318	111668	0.807	0.29	
5.450	531494	440749	0.829	1.14	
5.494	899453	770622	0.857	1.93	
5.533	576847	490901	0.851	1.24	
5.596	1515566	1188962	0.785	3.26	
5.691	456735	373651	0.818	0.98	
5.761	47093	34421	0.731	0.10	
5.801	86395	63657	0.737	0.18	
5.827	108747	92762	0.853	0.23	
5.879	1092155	787035	0.721	2.35	
5.977	157484	83047	0.527	0.33	
6.080	33565	27970	0.833	0.07	
6.113	990166	725645	0.733	2.13	
6.256	75887	53287	0.702	0.16	
6.314	62899	29916	0.476	0.13	
6.386	243403	197816	0.813	0.52	
6.421	55951	41464	0.741	0.12	
6.460	41540	30769	0.741	0.08	
6.599	14833	14769	0.996	0.03	
6.625	92957	67554	0.727	0.20	
6.804	19855	16628	0.837	0.04	
6.848	10150	10279	1.013	0.02	
6.891	39848	33489	0.840	0.08	
6.930	10350	9033	0.873	0.02	
7.093	42725	33246	0.778	0.09	
7.337	15785	17428	1.104	0.03	
7.530	10456	11576	1.107	0.02	
7.816	15398	16262	1.056	0.03	
7.987	13351	10754	0.805	0.02	
8.361	57119	44383	0.777	0.12	
8.446	13733	9579	0.698	0.02	
8.657	6175168	5142488	0.833	13.60	$ 12 Decachlorobiphenyl
9.000	10534	11040	1.048	0.02	
9.174	10329	8529	0.826	0.02	
	46464343	39898571		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	5700485	0.05000	0.047			
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1268942	0.50000	0.53	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	2233066	0.50000	0.52	0.00- 20.00	175.98	BA
4.898	4.898	0.000	1109631	0.50000	0.54	0.00- 20.00	87.45	BA
4.964	4.963	0.001	2910130	0.50000	0.53	0.00- 20.00	229.34	BA
5.124	5.123	0.001	2041505	0.50000	0.54	0.00- 20.00	160.88	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6175168	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D

Date : 03-MAY-2018 19:30

Client ID: 1248-ICV

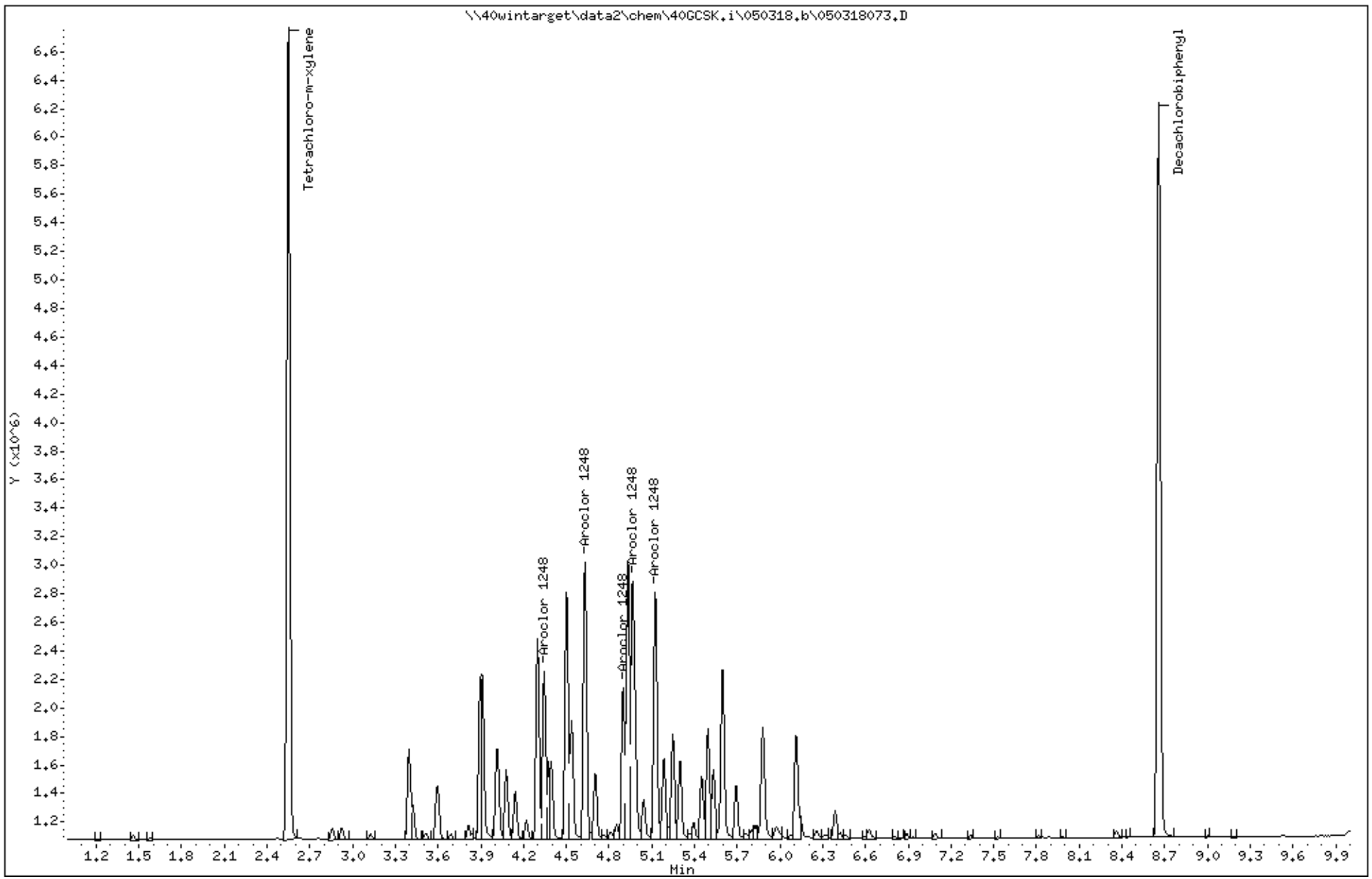
Instrument: 40GCSK.i

Sample Info: 1248-ICV, 185563:1

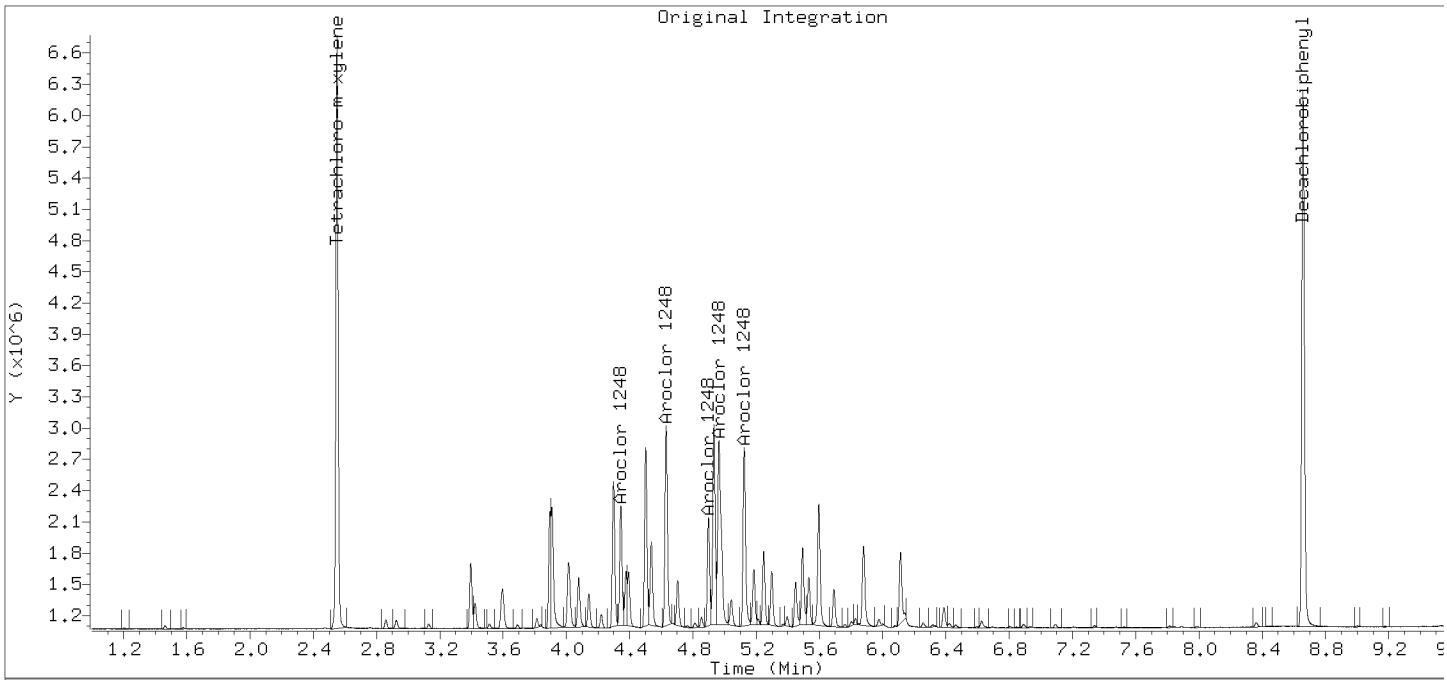
Operator: BLM

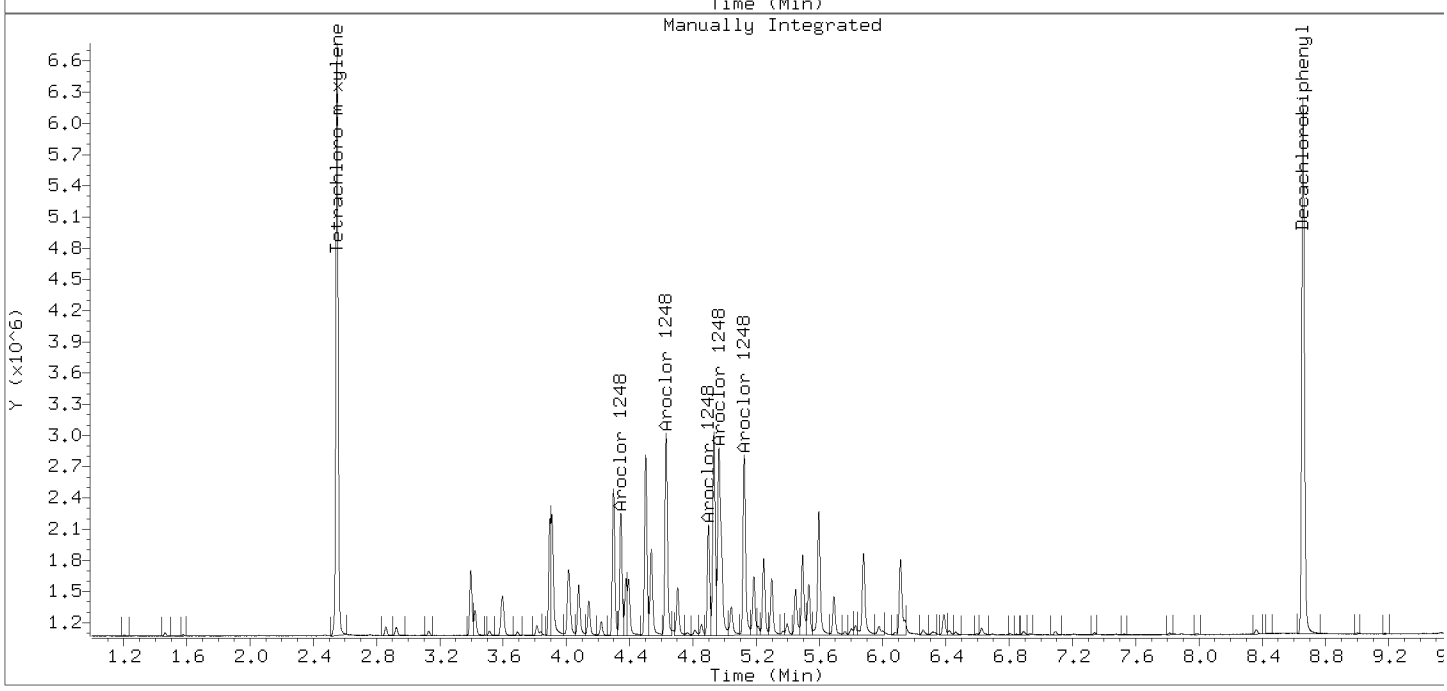
Column phase: ZB-1ms

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

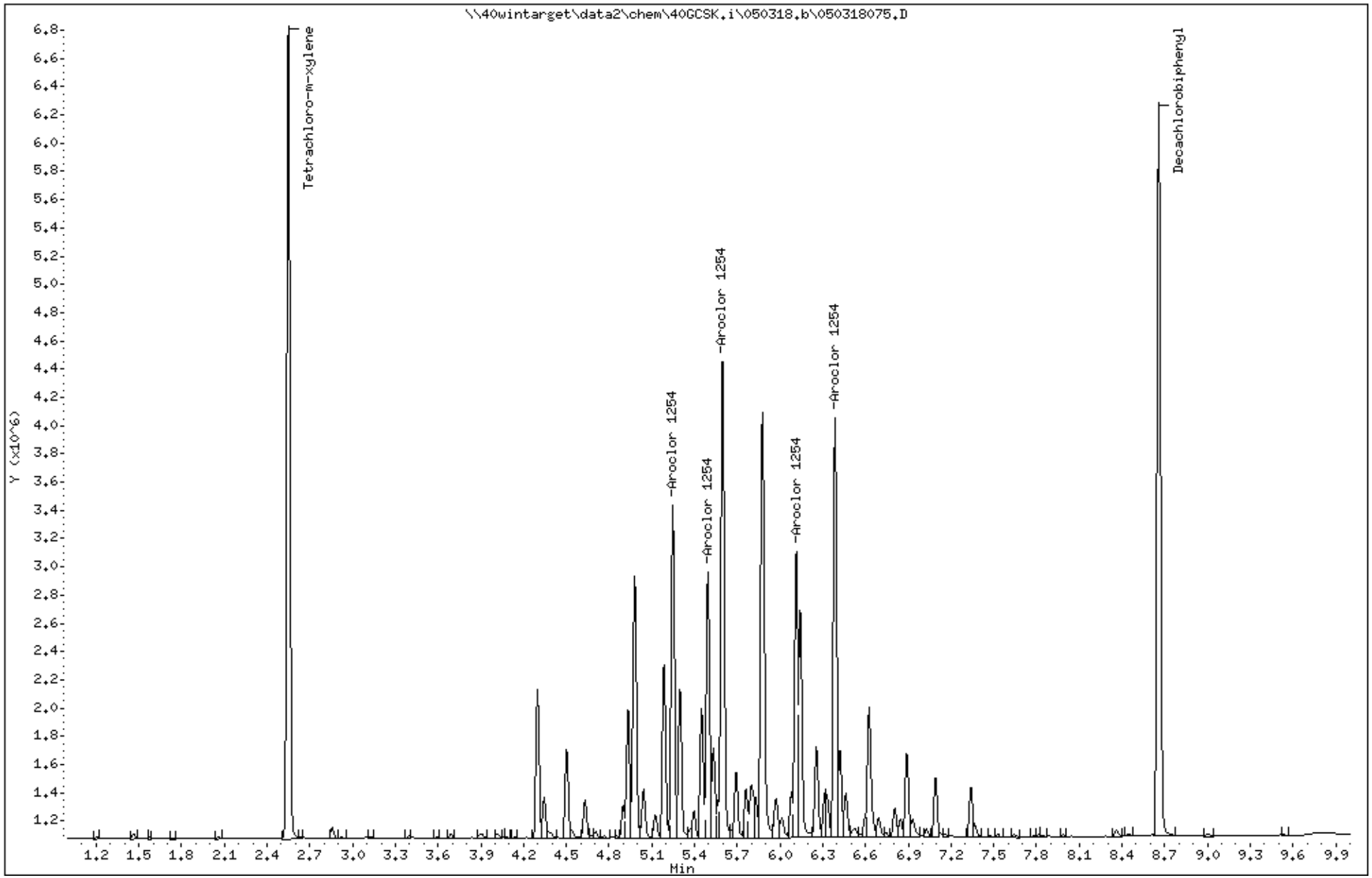
Instrument: 40GCSK.i

Sample Info: 1254-ICV, 185564:1

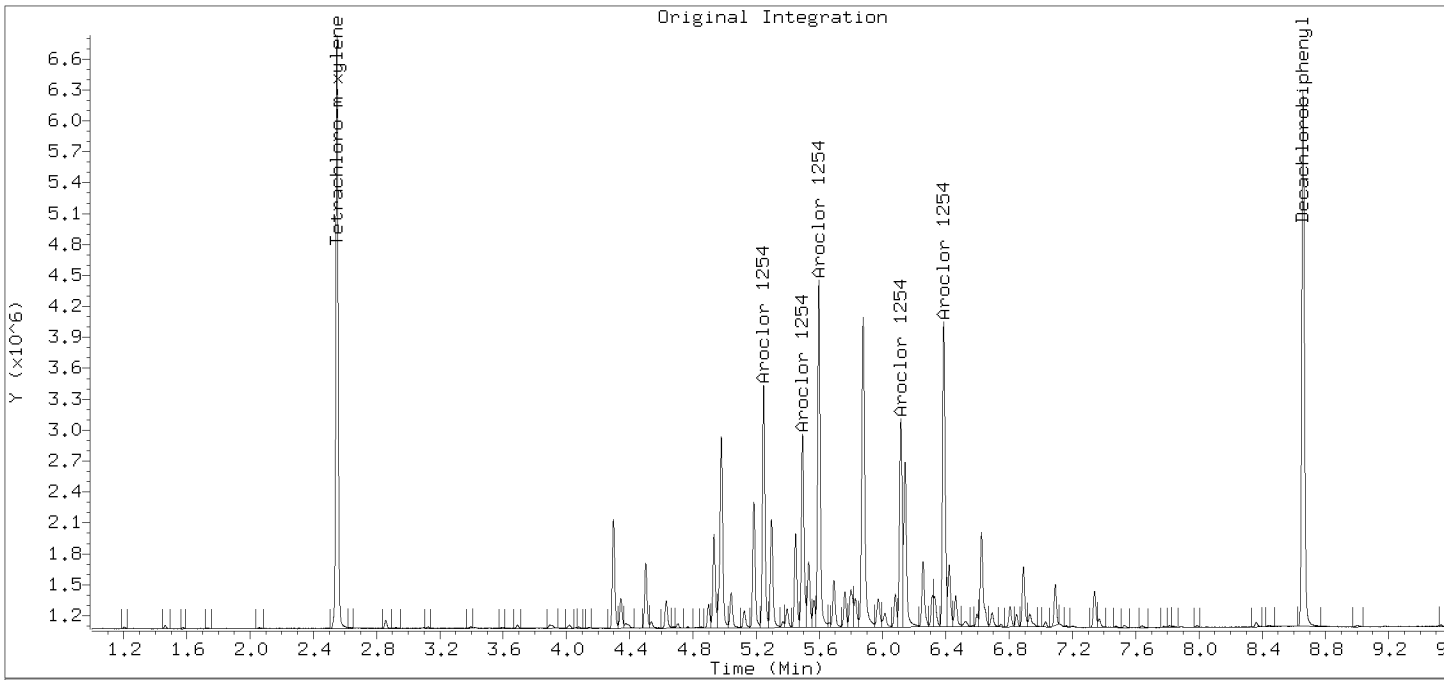
Operator: BLM

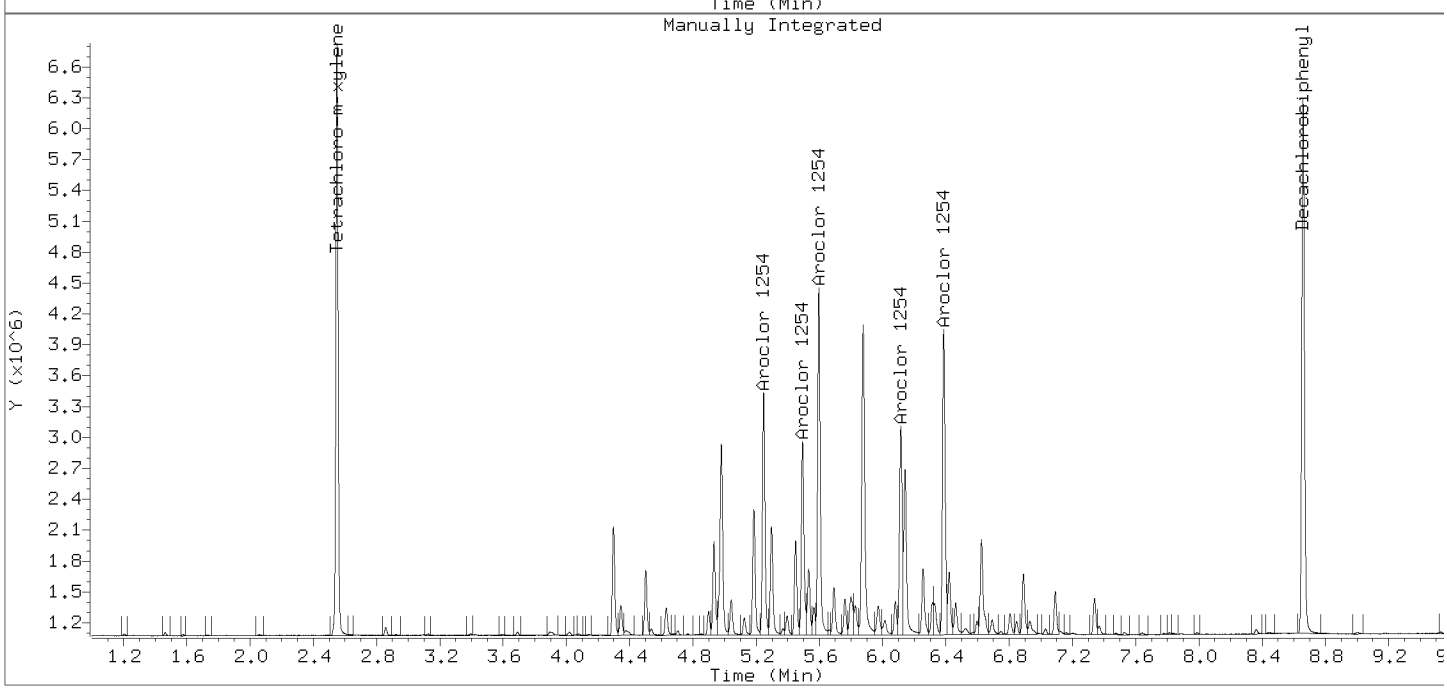
Column phase: ZB-1ms

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

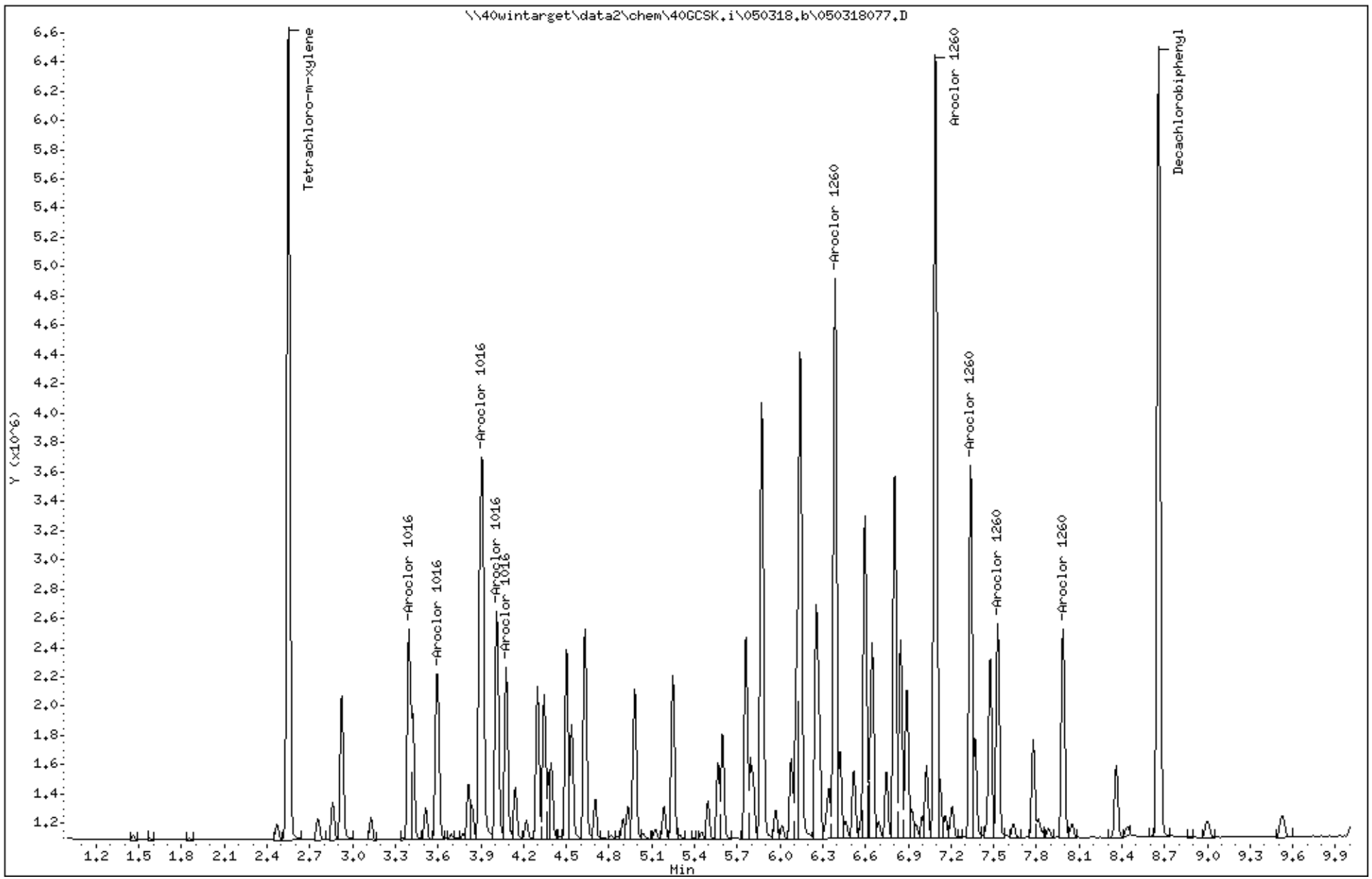
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

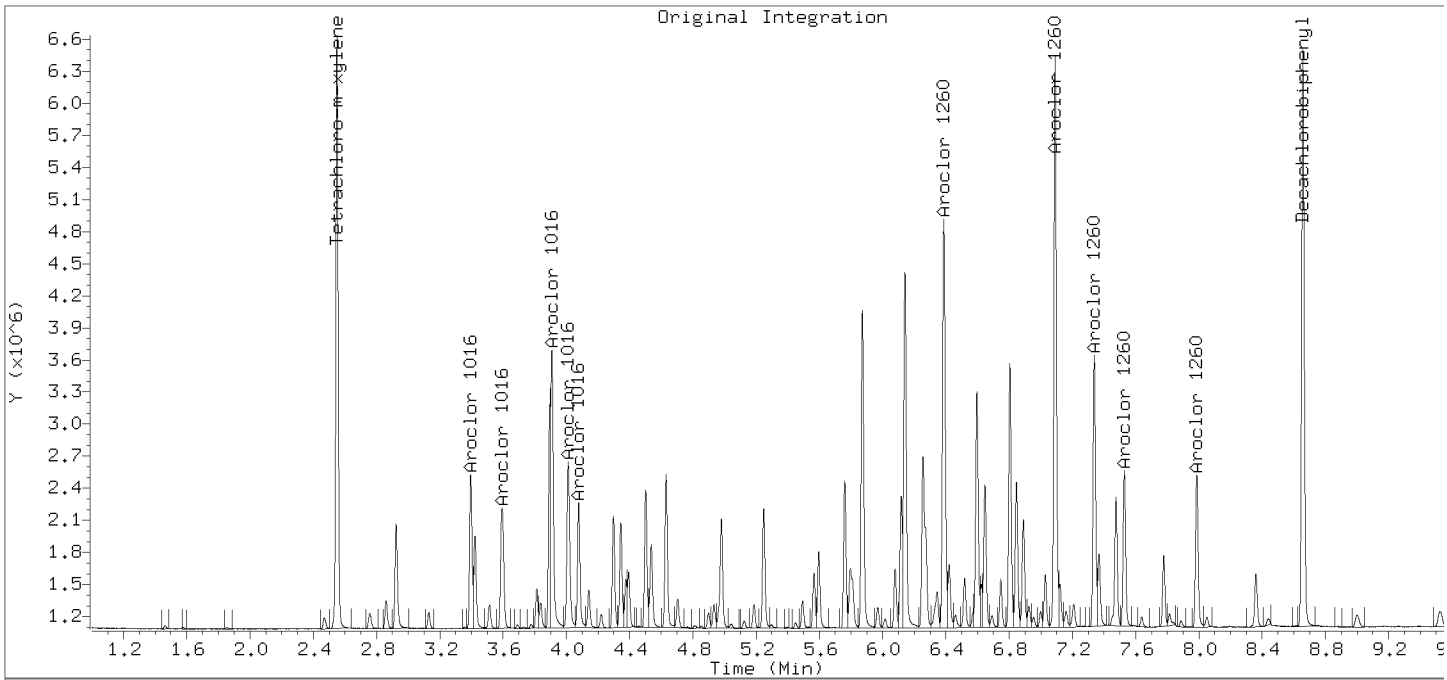
Instrument: 40GCSK.i

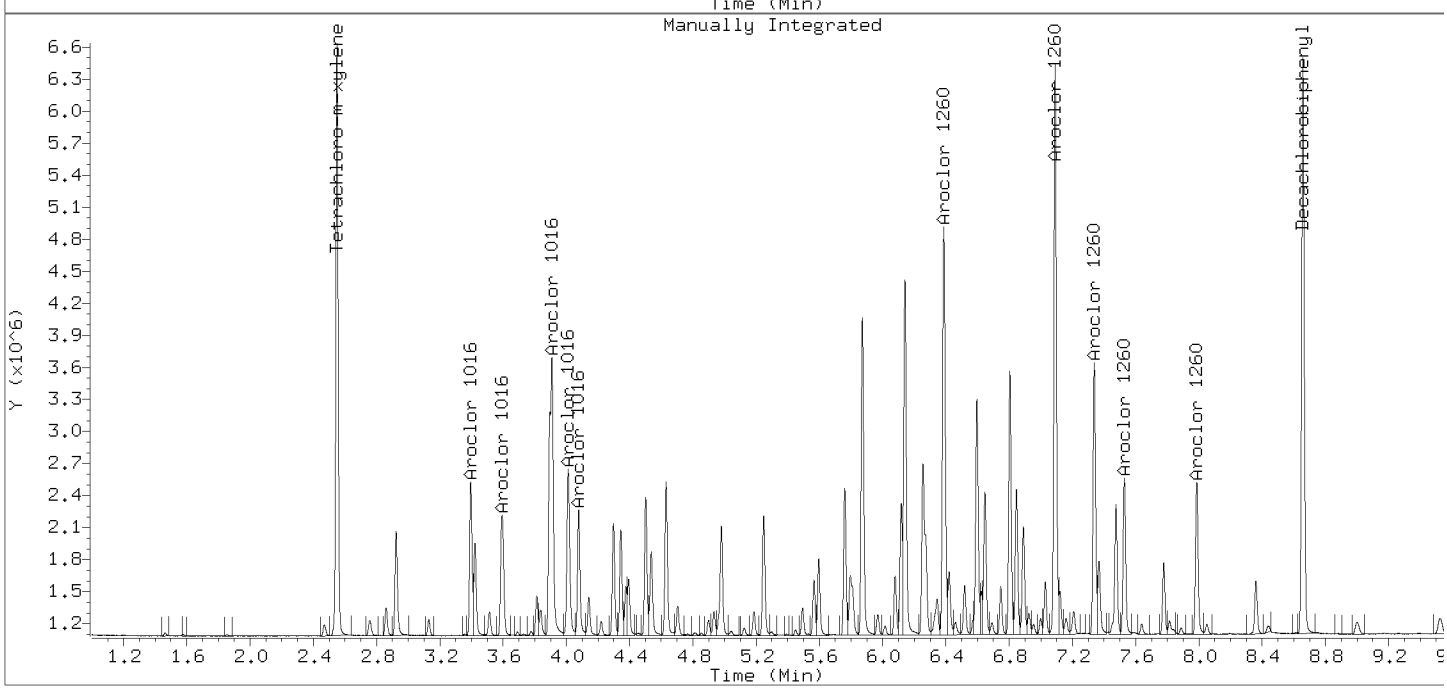
Operator: BLM

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

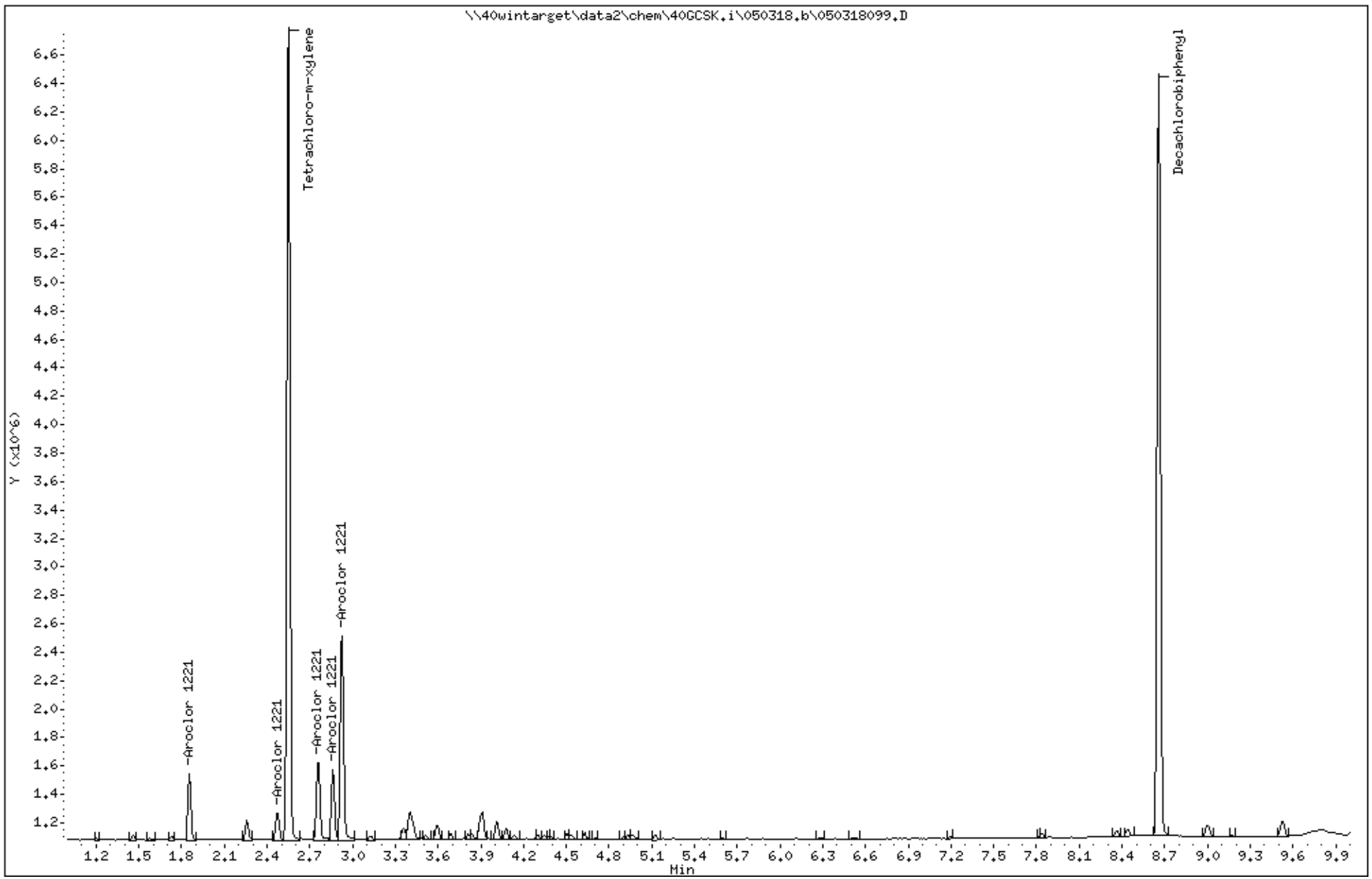
M - Compound response manually integrated.

Review Codes Legend

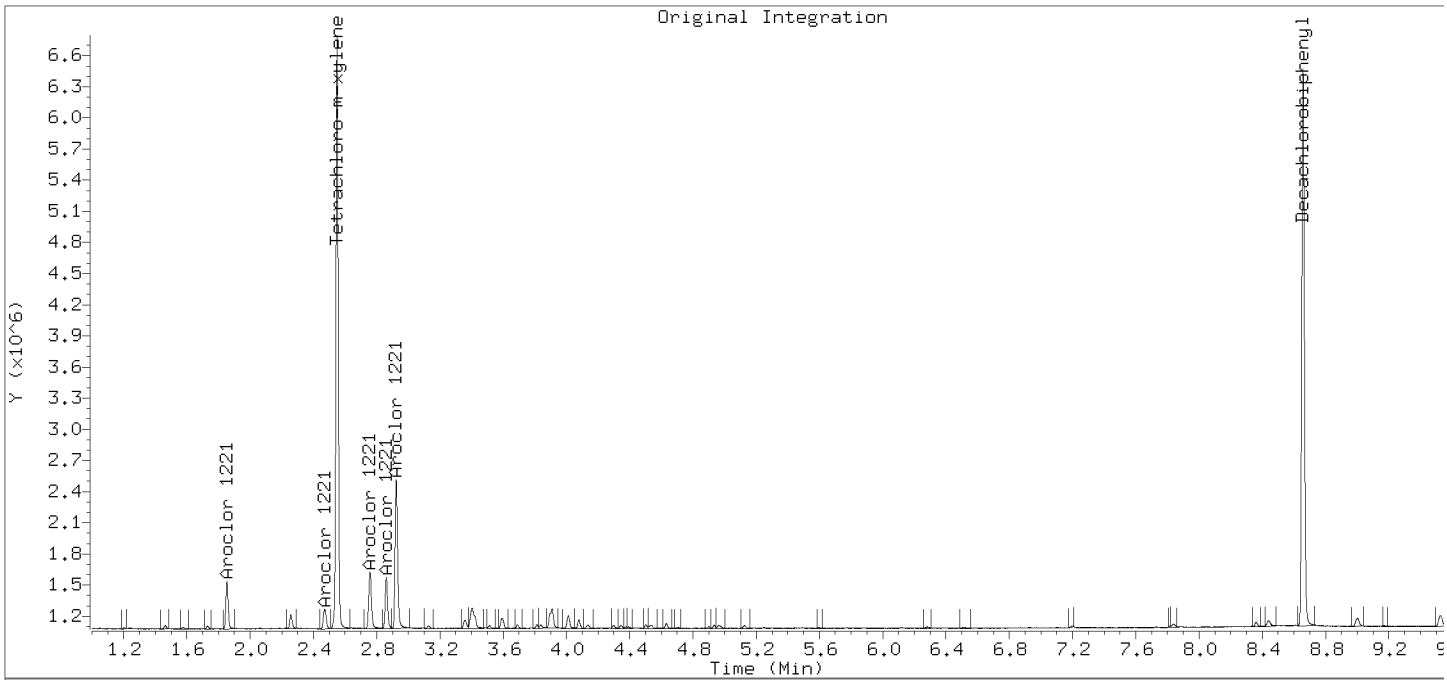
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

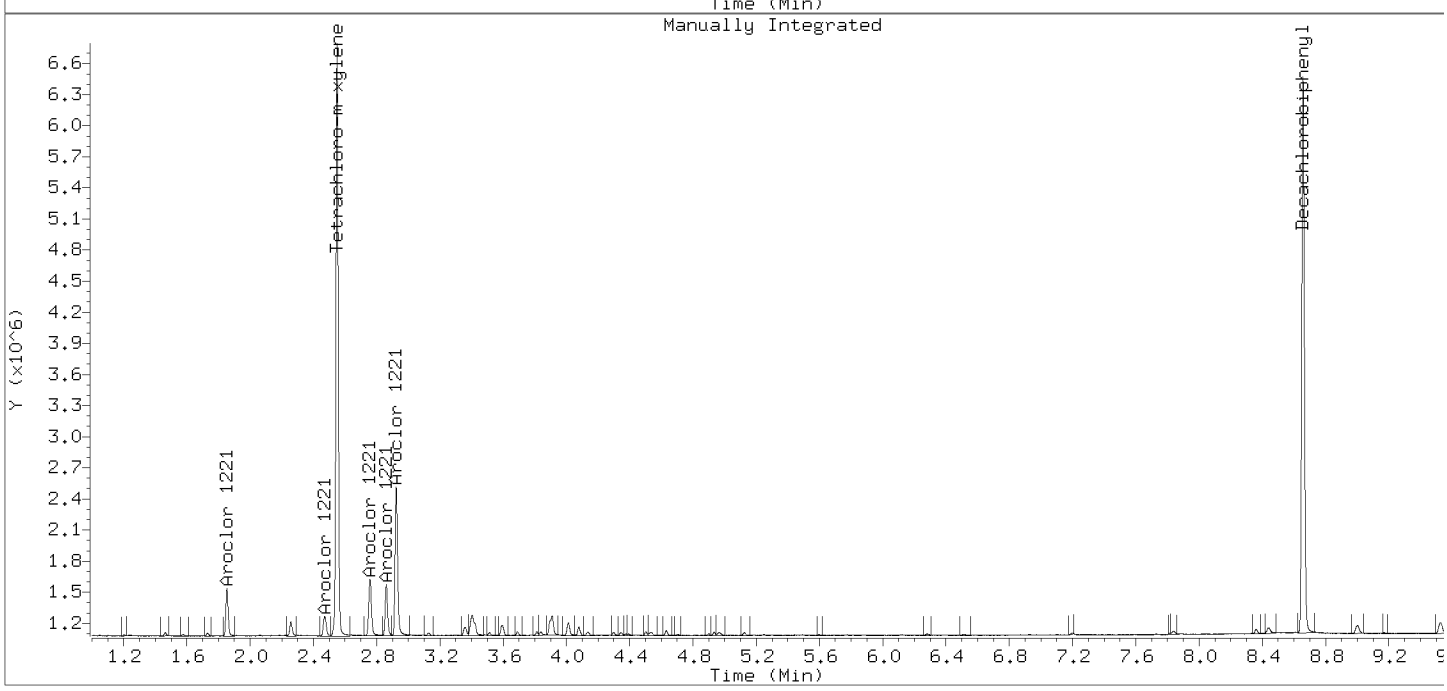
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318099.D
Date : 03-MAY-2018 23:01
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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\050718.b\050718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	13700	13551	0.989	0.01		
1.463	36721	33858	0.922	0.04		
1.577	16929	14267	0.843	0.01		
1.729	18860	15076	0.799	0.02		
1.852	17097	12649	0.740	0.01		
2.469	126899	100444	0.792	0.14		
2.550	5511716	5368986	0.974	6.43	$ 2 Tetrachloro-m-xylene	
2.757	183567	148035	0.806	0.21		
2.860	277091	256721	0.926	0.32		
2.923	1047810	959282	0.916	1.22		
3.129	146248	138443	0.947	0.17		
3.355	21538	17791	0.826	0.02		
3.396	1450100	1347889	0.930	1.69	5 Aroclor 1016	BA
3.422	867270	788391	0.909	1.01		
3.513	232956	206726	0.887	0.27		
3.594	1458296	1058346	0.726	1.70	5 Aroclor 1016	BA
3.690	42379	37447	0.884	0.04		
3.732	24250	15640	0.645	0.02		
3.776	40475	38024	0.939	0.04		
3.813	364907	353563	0.969	0.42		
3.837	254804	232306	0.912	0.29		
3.908	4325727	2504409	0.579	5.05	5 Aroclor 1016	BA
4.011	1841720	1524820	0.828	2.15	5 Aroclor 1016	BA
4.077	1234282	1118972	0.907	1.44	5 Aroclor 1016	BA
4.142	373273	321733	0.862	0.43		
4.220	145629	125161	0.859	0.17		
4.297	1070568	1021262	0.954	1.25		
4.344	965191	912381	0.945	1.12		
4.376	401667	415953	1.036	0.46		
4.394	512393	463563	0.905	0.59		
4.456	34636	24180	0.698	0.04		
4.502	1320592	1222980	0.926	1.54		
4.536	1023287	774232	0.757	1.19		
4.631	1692971	1504406	0.889	1.97		
4.704	382306	348316	0.911	0.44		
4.762	24904	19239	0.773	0.02		
4.811	59216	51509	0.870	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.852	57611	50214	0.872	0.06	
4.898	318013	295574	0.929	0.37	
4.932	494794	471625	0.953	0.57	
4.980	1554702	1148344	0.739	1.81	
5.043	101403	81506	0.804	0.11	
5.122	92315	78533	0.851	0.10	
5.186	323604	293870	0.908	0.37	
5.247	1300566	1201529	0.924	1.51	
5.298	65927	50247	0.762	0.07	
5.392	16181	14180	0.876	0.01	
5.450	94435	80016	0.847	0.11	
5.493	353051	324288	0.919	0.41	
5.565	506418	494087	0.976	0.59	
5.595	906232	834044	0.920	1.05	
5.691	23794	15034	0.632	0.02	
5.760	1320340	1246802	0.944	1.54	
5.796	938868	514967	0.548	1.09	
5.871	3276516	2926664	0.893	3.82	
5.969	218720	199645	0.913	0.25	
6.016	106915	91089	0.852	0.12	
6.078	564684	545164	0.965	0.65	
6.116	1248894	1231318	0.986	1.45	
6.140	3750180	3251629	0.867	4.37	
6.254	2287499	1518080	0.664	2.67	
6.344	531455	306181	0.576	0.62	
6.386	4594760	3943508	0.858	5.36	8 Aroclor 1260
6.420	645019	583826	0.905	0.75	
6.461	158213	132840	0.840	0.18	
6.517	463445	409093	0.883	0.54	
6.571	103441	121553	1.175	0.12	
6.595	2196293	1989834	0.906	2.56	
6.623	430639	458221	1.064	0.50	
6.646	1375743	1230696	0.895	1.60	
6.690	154833	130444	0.842	0.18	
6.746	431186	414891	0.962	0.50	
6.804	2376420	2191139	0.922	2.77	
6.845	1339944	1206297	0.900	1.56	
6.888	1138692	1034113	0.908	1.32	
6.924	202083	174392	0.863	0.23	
6.954	96850	87497	0.903	0.11	
6.999	144812	140685	0.972	0.16	
7.028	482571	445223	0.923	0.56	
7.089	5362443	4924680	0.918	6.26	8 Aroclor 1260
7.121	359743	329047	0.915	0.42	
7.160	161760	137299	0.849	0.18	
7.208	224957	193157	0.859	0.26	
7.304	11479	12042	1.049	0.01	
7.337	2646137	2394376	0.905	3.09	8 Aroclor 1260
7.367	729525	625621	0.858	0.85	
7.474	1276767	1083889	0.849	1.49	
7.528	1545461	1383632	0.895	1.80	8 Aroclor 1260
7.637	119036	101525	0.853	0.13	
7.776	639543	594306	0.929	0.74	
7.811	101099	71907	0.711	0.11	
7.885	71718	54688	0.763	0.08	
7.985	1459542	1314629	0.901	1.70	8 Aroclor 1260
8.049	102098	84630	0.829	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.360	376140	336280	0.894	0.43	
8.655	6032558	5224319	0.866	7.54	$ 12 Decachlorobiphenyl
8.994	26765	16064	0.600	0.03	
9.525	31700	20956	0.661	0.03	
	85628507	74372480		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	5511715	0.05000	0.046			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	1450100	0.50000	0.47	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1458295	0.50000	0.46	0.00- 20.00	100.57	BA
3.907	3.909	-0.002	4325727	0.50000	0.46	0.00- 20.00	298.31	BA
4.010	4.011	-0.001	1841720	0.50000	0.46	0.00- 20.00	127.01	BA
4.076	4.078	-0.002	1234282	0.50000	0.46	0.00- 20.00	85.12	BA
Average of Peak Amounts =					0.46200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	4594759	0.50000	0.46	0.00- 20.00	100.00(M)	BA
7.089	7.090	-0.001	5362443	0.50000	0.46	0.00- 20.00	116.71	BA
7.337	7.338	-0.001	2646136	0.50000	0.47	0.00- 20.00	57.59	BA
7.527	7.529	-0.002	1545461	0.50000	0.45	0.00- 20.00	33.64	BA
7.984	7.987	-0.003	1459541	0.50000	0.46	0.00- 20.00	31.77	BA
Average of Peak Amounts =					0.46000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	6032557	0.05000	0.045			

QC Flag Legend

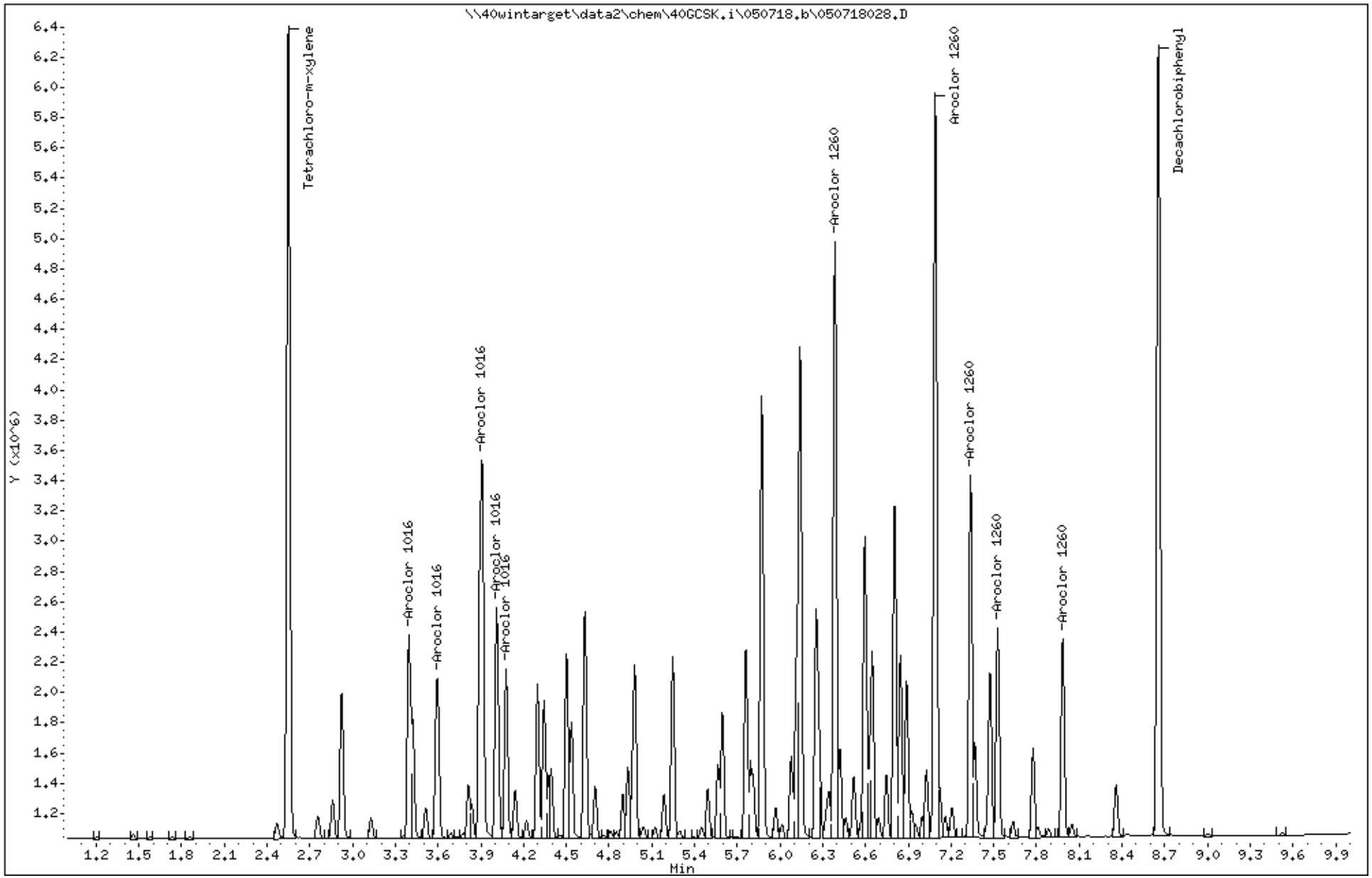
M - Compound response manually integrated.

Review Codes Legend

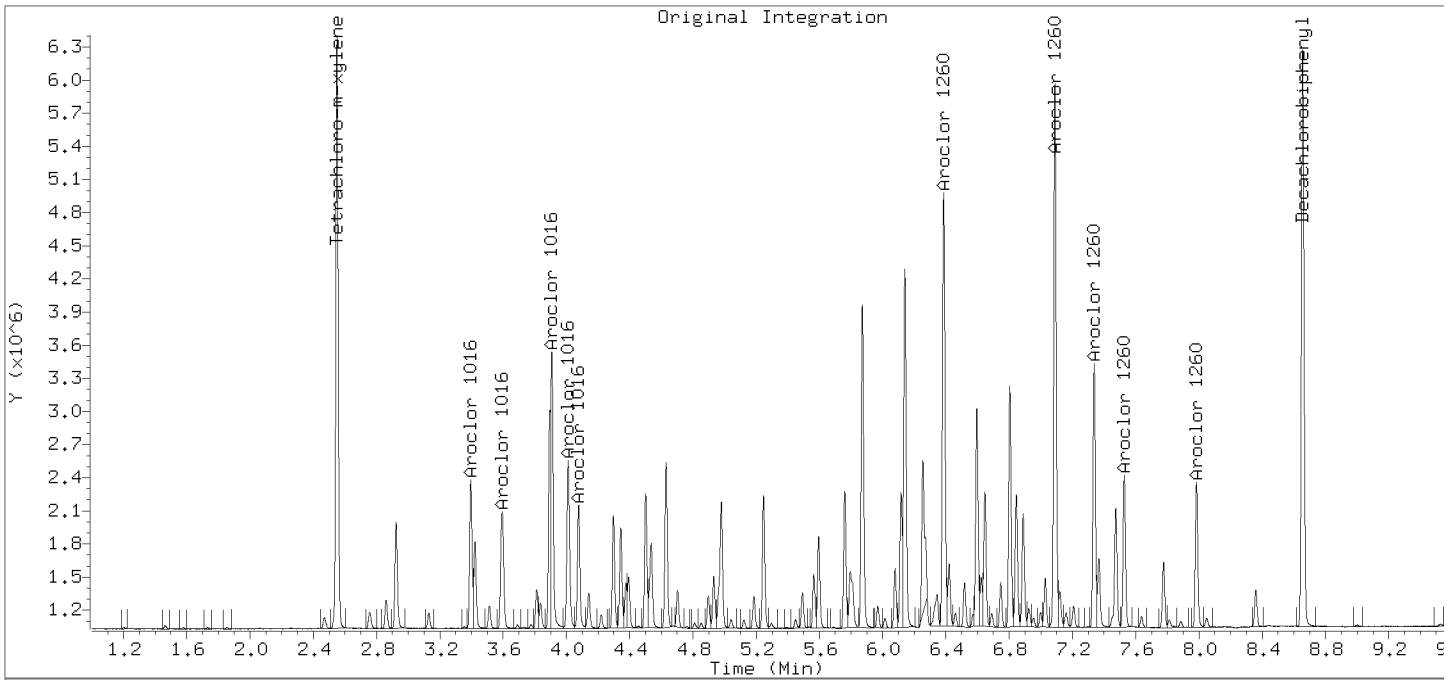
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

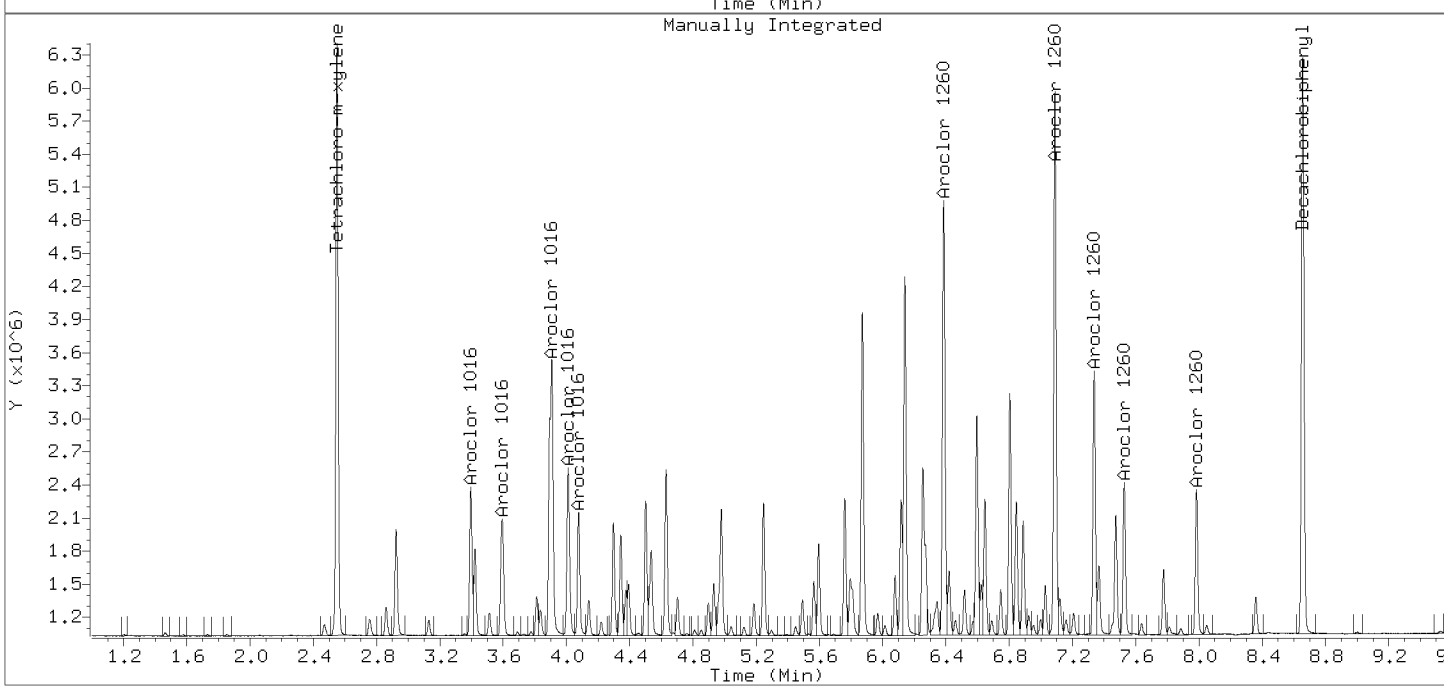
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Date : 07-MAY-2018 20:27
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 07-MAY-2018 20:27 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Tetrachloro-m-xylene	5511715	5511715	
Decachlorobiphenyl	6032557	6032557	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	33137	28086	0.848	0.19		
1.463	34177	34226	1.001	0.20		
1.577	18789	15155	0.807	0.11		
1.730	19316	21704	1.124	0.11		
1.854	463868	444877	0.959	2.72	1 Aroclor 1221	BA
2.060	26110	19070	0.730	0.15		
2.257	156640	134731	0.860	0.92		
2.471	244716	183960	0.752	1.43	1 Aroclor 1221	BA
2.550	5477215	5488095	1.002	32.20	$ 2 Tetrachloro-m-xylene	BA
2.758	652451	518527	0.795	3.83	1 Aroclor 1221	BA
2.861	505106	473505	0.937	2.97	1 Aroclor 1221	BA
2.924	1583135	1373779	0.868	9.30	1 Aroclor 1221	BA
3.095	16133	12828	0.795	0.09		
3.129	32125	26521	0.826	0.18		
3.358	106360	81744	0.769	0.62		
3.404	373202	192794	0.517	2.19		
3.514	34613	29439	0.851	0.20		
3.594	137990	98782	0.716	0.81		
3.690	35814	34908	0.975	0.21		
3.813	39037	36737	0.941	0.22		
3.837	47623	34742	0.730	0.28		
3.909	314987	182335	0.579	1.85		
4.011	146547	122746	0.838	0.86		
4.078	92419	81396	0.881	0.54		
4.132	13358	12566	0.941	0.07		
4.297	37610	31363	0.834	0.22		
4.344	28352	29244	1.031	0.16		
4.502	39710	37444	0.943	0.23		
4.536	46224	30171	0.653	0.27		
4.632	46710	44548	0.954	0.27		
4.701	10383	10748	1.035	0.06		
4.898	20305	18670	0.919	0.11		
4.934	31996	31721	0.991	0.18		
4.962	40021	32413	0.810	0.23		
5.122	32215	28917	0.898	0.18		
5.248	10717	9331	0.871	0.06		
5.595	15396	12539	0.814	0.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.277	17342	14464	0.834	0.10	
7.815	22145	15429	0.697	0.13	
7.885	13062	11263	0.862	0.07	
8.361	50369	45077	0.895	0.29	
8.441	14071	12318	0.875	0.08	
8.656	5883715	5106405	0.868	34.79	$ 12 Decachlorobiphenyl
8.778	12887	6610	0.513	0.07	
9.000	28388	19242	0.678	0.16	
	17006484	15231170		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.549	2.549	0.000	5477215	0.05000	0.045			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.853	1.853	0.000	463868	0.50000	0.47	0.00- 20.00	100.00	(M)	BA
2.471	2.471	0.000	244715	0.50000	0.46	0.00- 20.00	52.76		BA
2.757	2.758	-0.001	652451	0.50000	0.47	0.00- 20.00	140.65		BA
2.860	2.860	0.000	505105	0.50000	0.46	0.00- 20.00	108.89		BA
2.923	2.923	0.000	1583134	0.50000	0.47	0.00- 20.00	341.29		BA
Average of Peak Amounts =					0.46600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.656	8.657	-0.001	5883714	0.05000	0.044				

QC Flag Legend

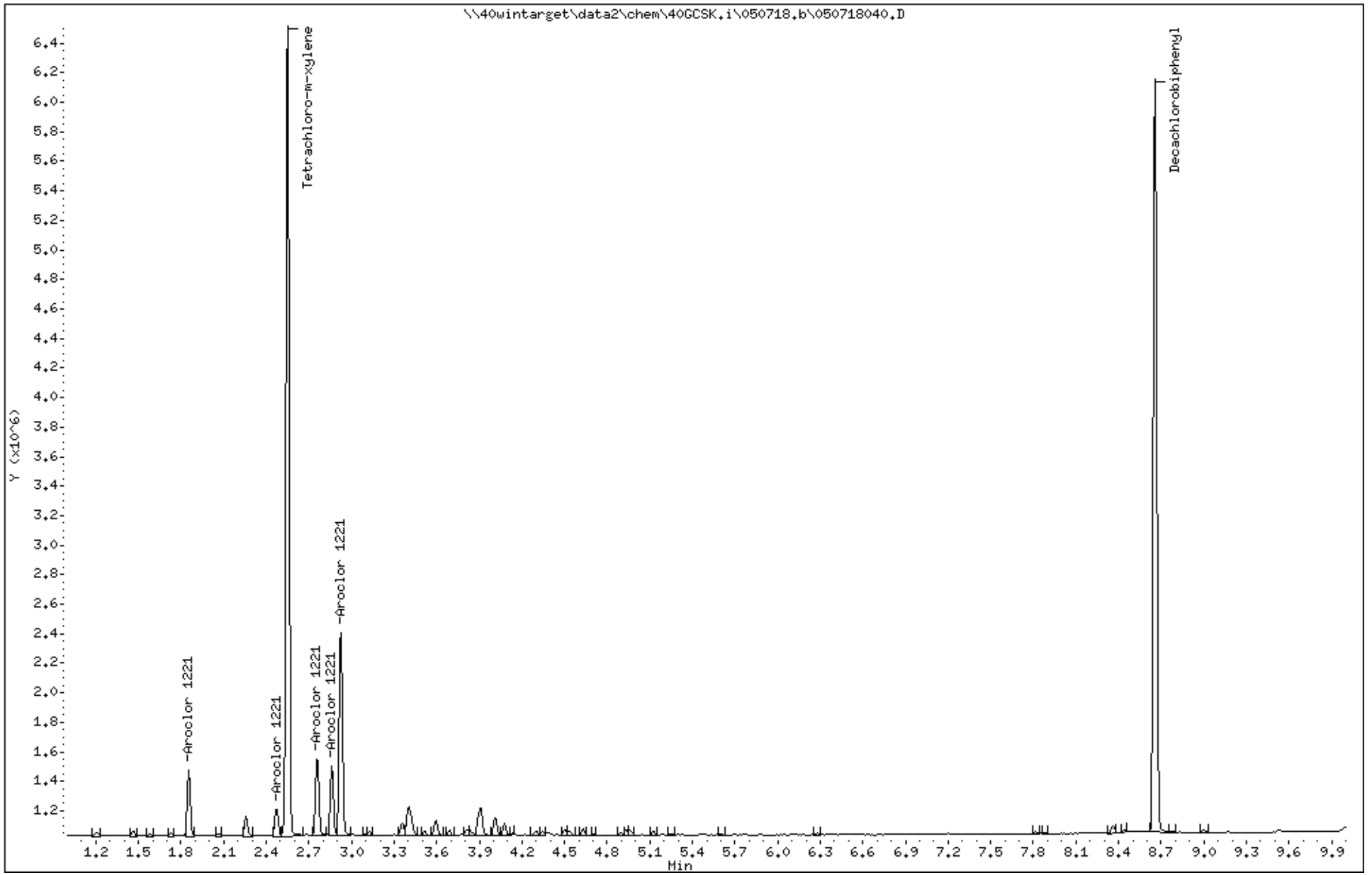
M - Compound response manually integrated.

Review Codes Legend

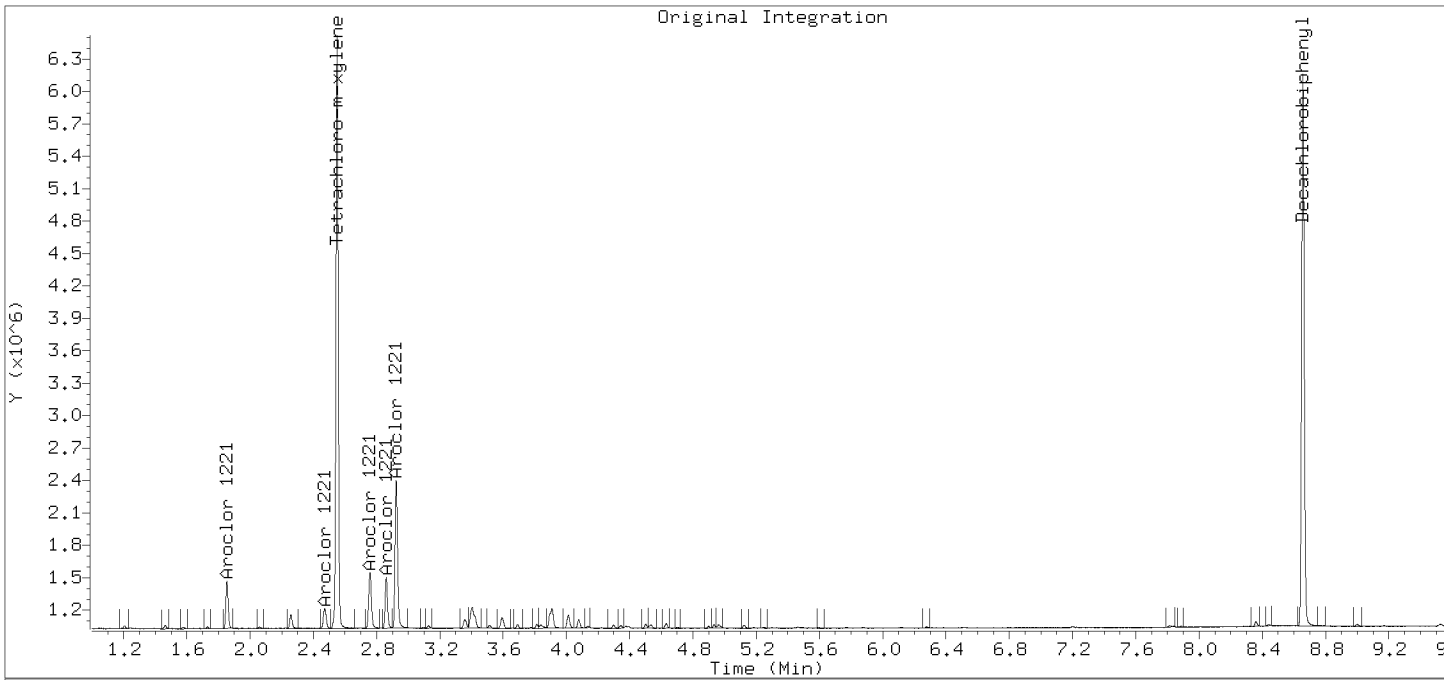
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

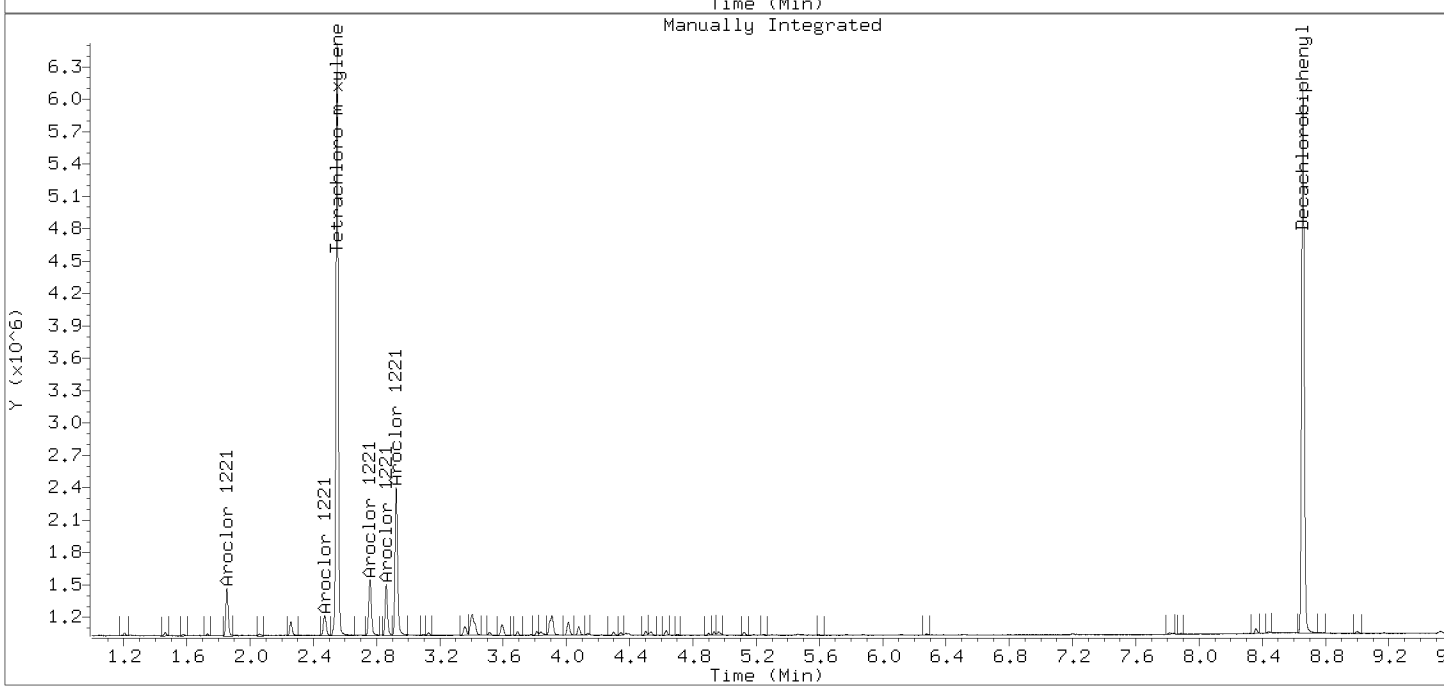
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Date : 07-MAY-2018 23:37
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718040.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 07-MAY-2018 23:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Tetrachloro-m-xylene	5457840	5477215	BA
Decachlorobiphenyl	5883714	5883714	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	29933	28232	0.943	0.10		
1.466	35473	33281	0.938	0.12		
1.576	17699	15411	0.871	0.06		
1.734	23365	22976	0.983	0.08		
1.855	289890	272695	0.941	1.01		
2.063	20251	15706	0.776	0.07		
2.258	81551	77517	0.951	0.28		
2.472	187449	145479	0.776	0.65		
2.550	5696554	5722742	1.005	19.91	$ 2 Tetrachloro-m-xylene	
2.759	441820	342053	0.774	1.54		
2.861	402035	368936	0.918	1.40		
2.924	1330064	1176803	0.885	4.65	4 Aroclor 1232	BA
3.131	86850	76402	0.880	0.30		
3.360	71851	51668	0.719	0.25		
3.396	754496	674793	0.894	2.63		
3.423	450406	386442	0.858	1.57		
3.513	127047	107360	0.845	0.44		
3.594	693719	501762	0.723	2.42	4 Aroclor 1232	BA
3.690	43061	37586	0.873	0.15		
3.779	23807	23465	0.986	0.08		
3.813	181178	172194	0.950	0.63		
3.838	147645	119492	0.809	0.51		
3.910	2052971	1161393	0.566	7.17	4 Aroclor 1232	BA
4.012	876285	715320	0.816	3.06	4 Aroclor 1232	BA
4.078	579239	524171	0.905	2.02	4 Aroclor 1232	BA
4.142	175706	143296	0.816	0.61		
4.221	66847	53284	0.797	0.23		
4.299	416283	382441	0.919	1.45		
4.345	406850	375955	0.924	1.42		
4.377	173045	184270	1.065	0.60		
4.393	218624	197114	0.902	0.76		
4.502	561560	521659	0.929	1.96		
4.536	487210	336083	0.690	1.70		
4.631	739135	661316	0.895	2.58		
4.703	181193	157360	0.868	0.63		
4.761	19496	12071	0.619	0.06		
4.812	39213	31377	0.800	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.855	43065	36735	0.853	0.15	
4.899	332628	309099	0.929	1.16	
4.933	590725	550658	0.932	2.06	
4.965	785496	579774	0.738	2.74	
5.045	92154	65343	0.709	0.32	
5.124	645911	573924	0.889	2.25	
5.185	108526	94333	0.869	0.37	
5.247	139832	121492	0.869	0.48	
5.299	109684	87863	0.801	0.38	
5.397	26665	21476	0.805	0.09	
5.449	91564	74759	0.816	0.32	
5.494	143560	122802	0.855	0.50	
5.533	92641	80645	0.871	0.32	
5.596	248652	184027	0.740	0.86	
5.691	73063	66092	0.905	0.25	
5.764	23921	15062	0.630	0.08	
5.799	16070	15341	0.955	0.05	
5.825	20313	16911	0.833	0.07	
5.878	178544	128849	0.722	0.62	
5.972	25185	15650	0.621	0.08	
6.113	134279	113726	0.847	0.46	
6.142	33880	30048	0.887	0.11	
6.252	14341	13088	0.913	0.05	
6.275	24580	18927	0.770	0.08	
6.322	13355	6569	0.492	0.04	
6.385	45144	37039	0.820	0.15	
6.508	13263	9093	0.686	0.04	
6.597	12017	12213	1.016	0.04	
6.803	16085	14962	0.930	0.05	
6.892	12142	9528	0.785	0.04	
7.090	29695	24726	0.833	0.10	
7.196	12571	8512	0.677	0.04	
7.338	16931	15967	0.943	0.05	
7.524	10437	8864	0.849	0.03	
7.816	14996	14397	0.960	0.05	
7.887	14016	11781	0.841	0.04	
8.360	58163	48067	0.826	0.20	
8.436	14650	12740	0.870	0.05	
8.657	6113901	5189282	0.849	21.75	$ 12 Decachlorobiphenyl
9.002	30723	18053	0.588	0.10	
9.525	44558	22488	0.505	0.15	
	28597730	24631010		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	5696554	0.05000	0.047			
4 Aroclor 1232					CAS #: 1114-16-5			
2.924	2.922	0.002	1330063	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	693718	0.50000	0.49	0.00- 20.00	52.16	BA
3.909	3.908	0.001	2052970	0.50000	0.50	0.00- 20.00	154.35	BA
4.012	4.011	0.001	876285	0.50000	0.49	0.00- 20.00	65.88	BA
4.077	4.078	-0.001	579239	0.50000	0.49	0.00- 20.00	43.55	BA
Average of Peak Amounts =					0.49200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	6113901	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

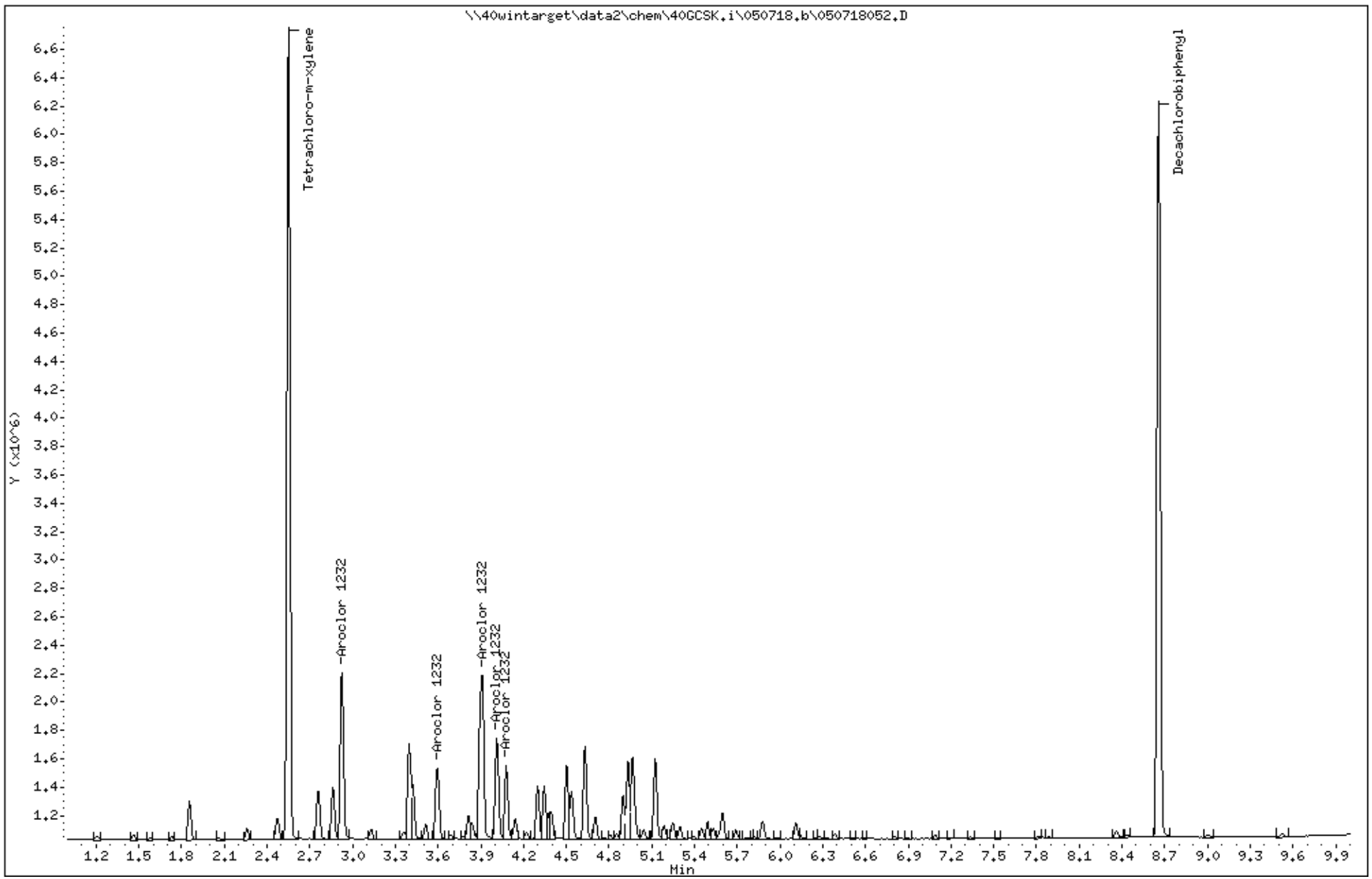
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Date : 08-MAY-2018 02:47
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSK.i

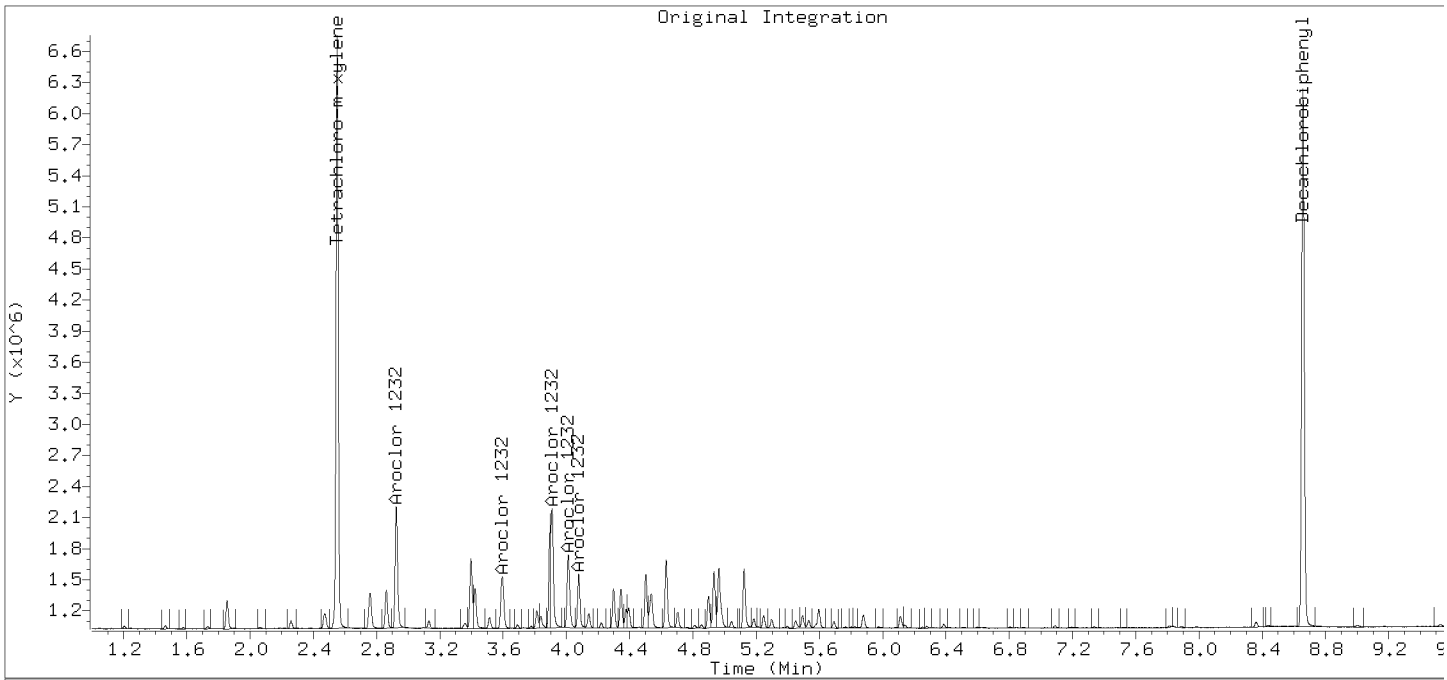
Operator: BLM

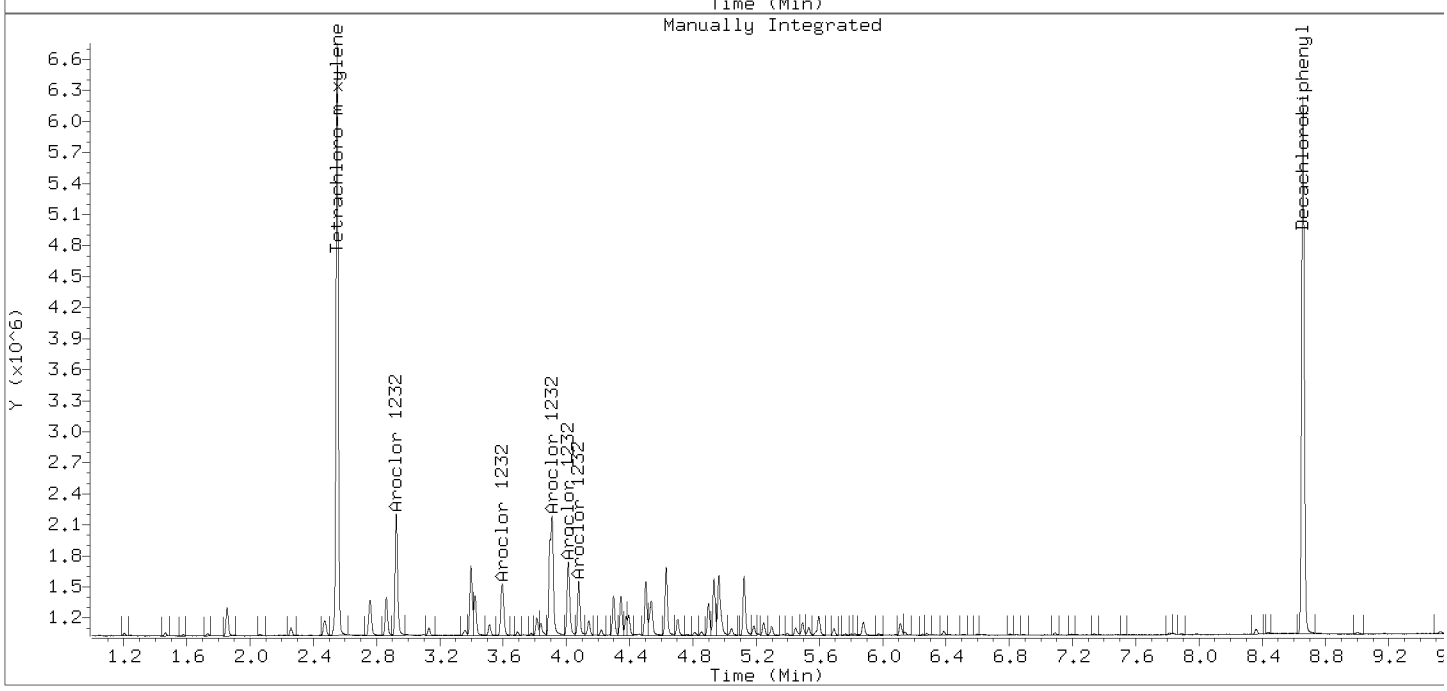
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718052.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 08-MAY-2018 02:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Tetrachloro-m-xylene	5696554	5696554	
Decachlorobiphenyl	6113901	6113901	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 08-MAY-2018 05:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 64 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	21894	17418	0.796	0.05		
1.462	38726	33855	0.874	0.09		
1.578	14171	15004	1.059	0.03		
1.732	19468	17721	0.910	0.04		
1.855	17588	13182	0.749	0.04		
2.059	15569	11926	0.766	0.03		
2.470	115679	95094	0.822	0.28		
2.550	5675705	5698471	1.004	14.13	$ 2 Tetrachloro-m-xylene	
2.757	174261	135253	0.776	0.43		
2.860	258820	241474	0.933	0.64		
2.923	945851	871850	0.922	2.35		
3.129	131847	125917	0.955	0.32		
3.357	18790	15332	0.816	0.04		
3.395	1261622	1192848	0.945	3.14	3 Aroclor 1242	BA
3.422	743416	687436	0.925	1.85		
3.513	200931	181203	0.902	0.50		
3.594	1256286	915880	0.729	3.12	3 Aroclor 1242	BA
3.691	39254	37031	0.943	0.09		
3.777	33795	33619	0.995	0.08		
3.813	313240	303043	0.967	0.77		
3.837	220804	197251	0.893	0.54		
3.908	3707306	2099684	0.566	9.23	3 Aroclor 1242	BA
4.012	1587070	1287994	0.812	3.95	3 Aroclor 1242	BA
4.078	1053602	961025	0.912	2.62	3 Aroclor 1242	BA
4.143	322227	277227	0.860	0.80		
4.220	125385	108356	0.864	0.31		
4.298	872722	822715	0.943	2.17		
4.344	837376	804957	0.961	2.08		
4.377	346965	359761	1.037	0.86		
4.394	451141	407996	0.904	1.12		
4.456	21991	21321	0.970	0.05		
4.502	1140730	1087787	0.954	2.84		
4.536	936718	679774	0.726	2.33		
4.631	1516999	1339199	0.883	3.77		
4.704	343386	318077	0.926	0.85		
4.762	25087	19792	0.789	0.06		
4.811	71583	61071	0.853	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.852	81353	75639	0.930	0.20	
4.898	713872	691419	0.969	1.77	
4.932	1246272	1174445	0.942	3.10	
4.963	1612092	1175171	0.729	4.01	
5.042	187597	138938	0.741	0.46	
5.123	1330123	1199758	0.902	3.31	
5.185	278195	219292	0.788	0.69	
5.247	327448	292489	0.893	0.81	
5.297	252340	217638	0.862	0.62	
5.368	19181	18055	0.941	0.04	
5.393	54061	45829	0.848	0.13	
5.449	213489	182107	0.853	0.53	
5.493	353474	298272	0.844	0.88	
5.532	221135	197868	0.895	0.55	
5.595	576946	449783	0.780	1.43	
5.693	164068	150005	0.914	0.40	
5.756	15403	13559	0.880	0.03	
5.802	32809	29667	0.904	0.08	
5.826	44704	41891	0.937	0.11	
5.877	429066	346175	0.807	1.06	
5.977	56976	37692	0.662	0.14	
6.073	13613	11948	0.878	0.03	
6.111	356692	303622	0.851	0.88	
6.142	61206	53874	0.880	0.15	
6.254	17324	18617	1.075	0.04	
6.278	18918	18152	0.960	0.04	
6.312	10661	9358	0.878	0.02	
6.386	109449	98281	0.898	0.27	
6.421	18399	19259	1.047	0.04	
6.461	11059	12876	1.164	0.02	
6.624	41557	37895	0.912	0.10	
6.887	25614	23039	0.899	0.06	
7.089	12528	12303	0.982	0.03	
7.342	11473	8944	0.780	0.02	
7.813	12246	14169	1.157	0.03	
7.884	20263	14020	0.692	0.05	
8.359	56951	50737	0.891	0.14	
8.438	16123	15406	0.956	0.04	
8.656	6164797	5285298	0.857	15.69	$ 12 Decachlorobiphenyl
9.000	41940	27710	0.661	0.10	
9.527	54269	36626	0.675	0.13	
	40163692	34565370		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 08-MAY-2018 05:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 64 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.549	2.549	0.000	5675704	0.05000	0.047			
3 Aroclor 1242						CAS #: 53469-21-9		
3.395	3.396	-0.001	1261621	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1256286	0.50000	0.51	0.00- 20.00	99.58	BA
3.908	3.909	-0.001	3707305	0.50000	0.51	0.00- 20.00	293.85	BA
4.011	4.011	0.000	1587069	0.50000	0.51	0.00- 20.00	125.80	BA
4.078	4.078	0.000	1053601	0.50000	0.50	0.00- 20.00	83.51	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.656	8.657	-0.001	6164796	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

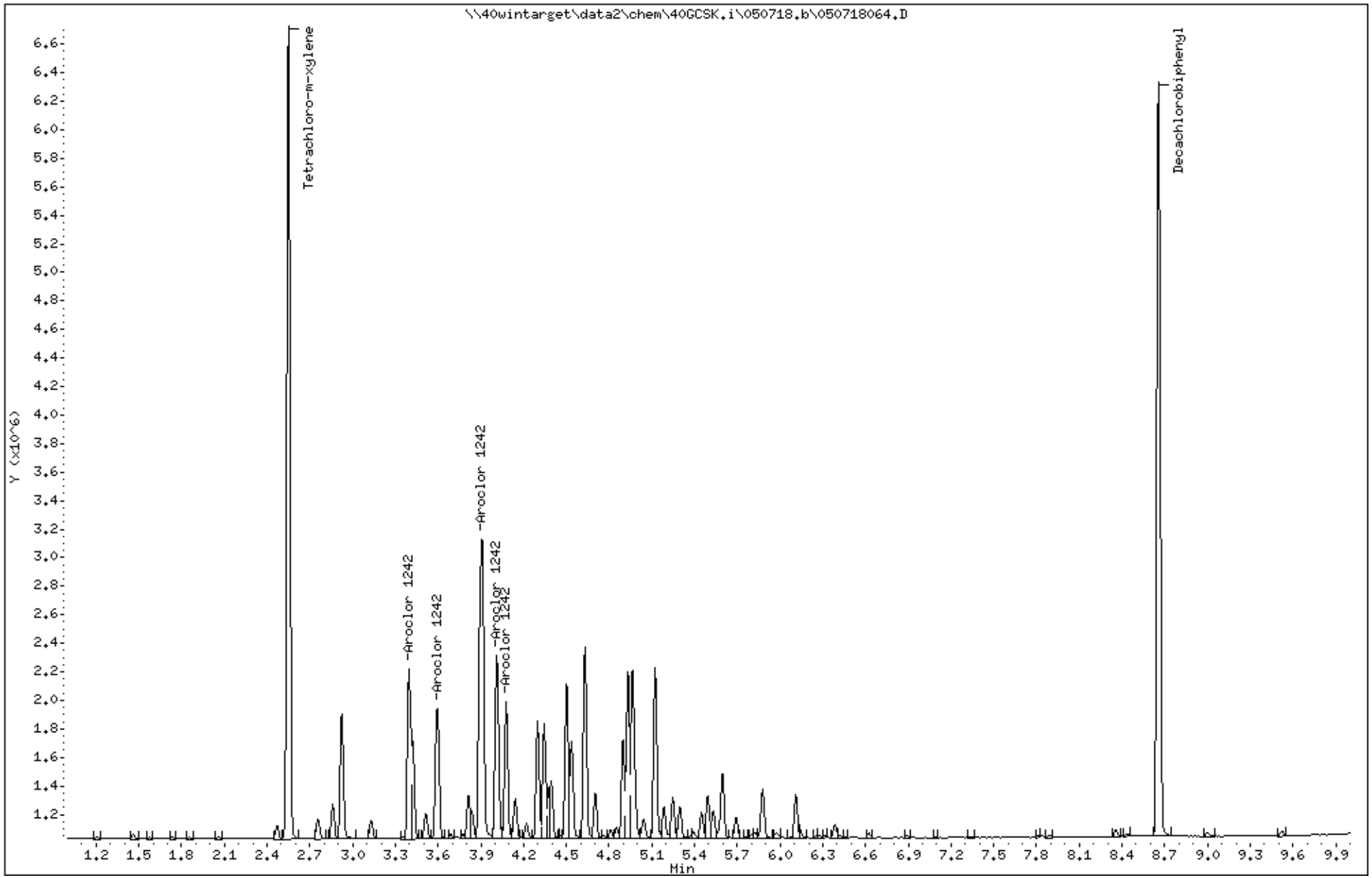
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718064.D
Date : 08-MAY-2018 05:57
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSK.i

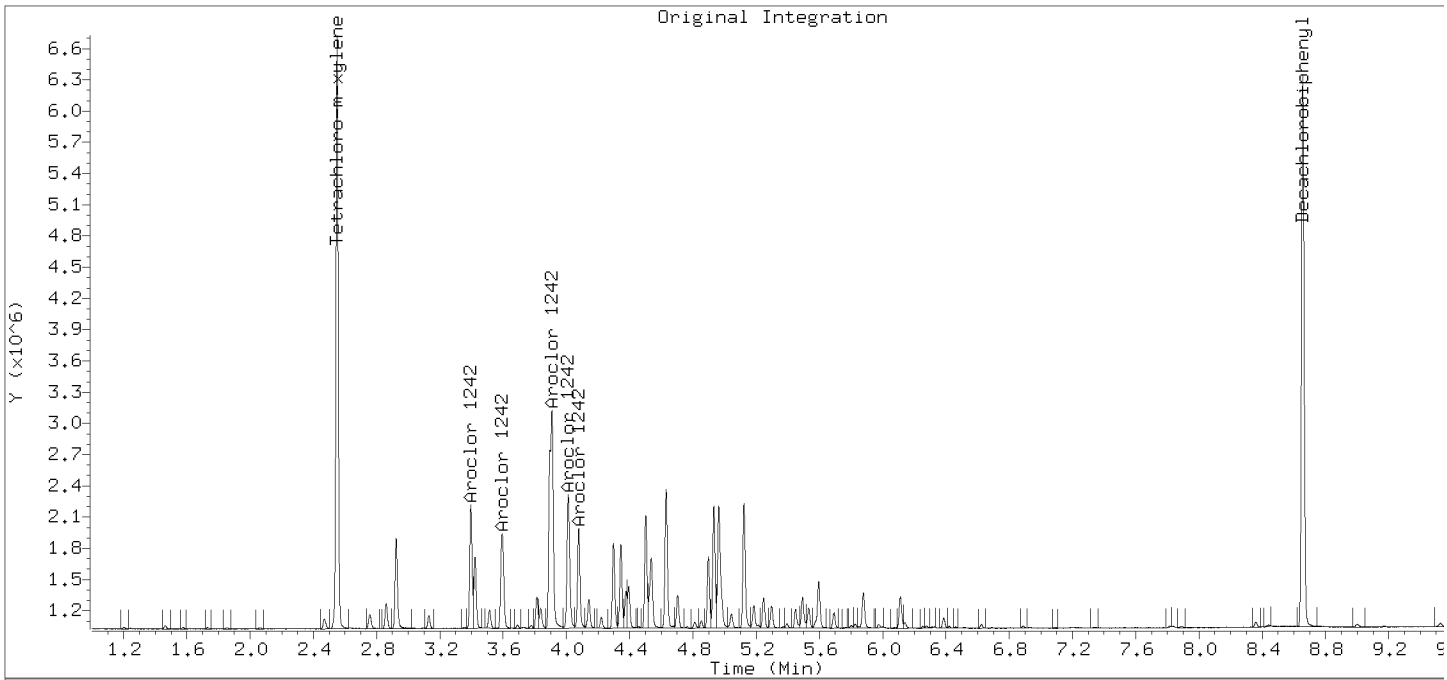
Operator: BLM

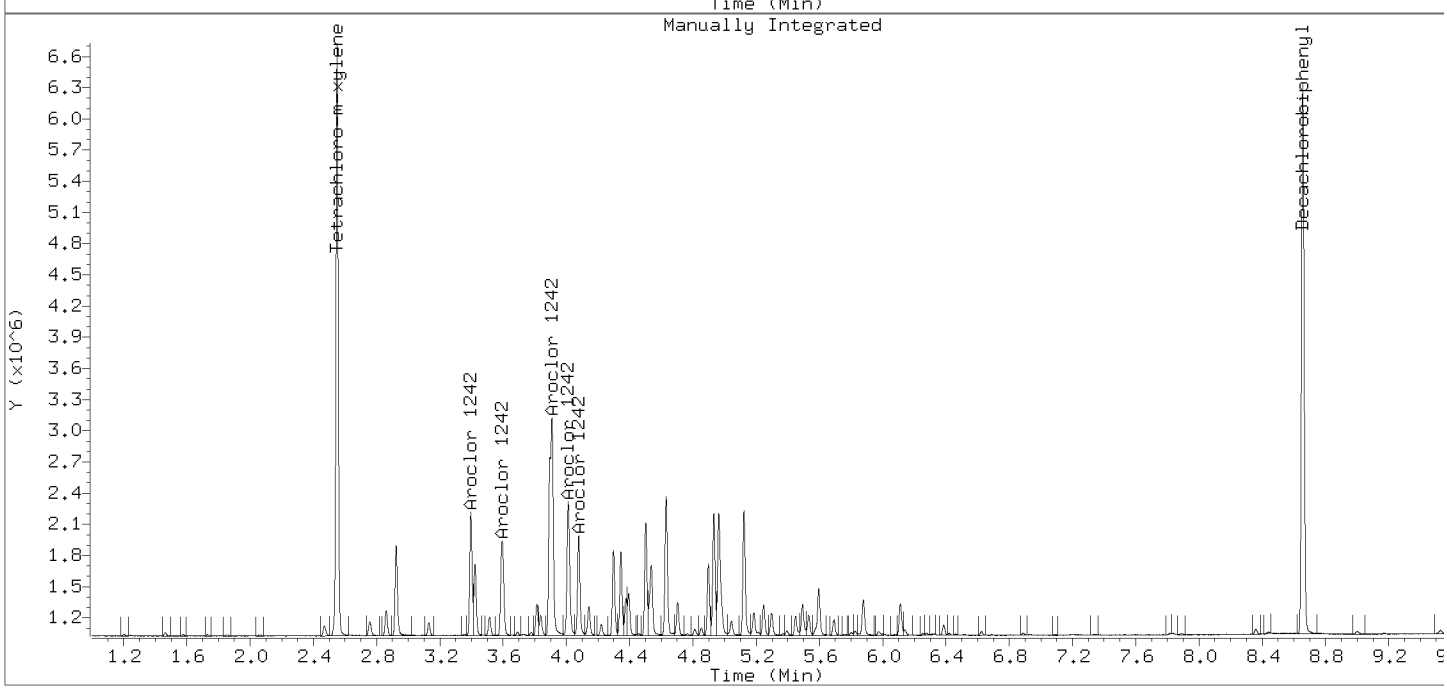
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718064.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 08-MAY-2018 05:57 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1251855	1261621	BA
Aroclor 1242	1251855	1261621	BA
Aroclor 1242	1251855	1261621	BA
Aroclor 1242	1251855	1261621	BA
Aroclor 1242	1251855	1261621	BA
Tetrachloro-m-xylene	5675704	5675704	
Decachlorobiphenyl	6164796	6164796	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 76 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.207	56657	50255	0.887	0.12		
1.247	14005	12482	0.891	0.03		
1.467	40884	32976	0.807	0.08		
1.579	20183	14268	0.707	0.04		
1.732	16409	17056	1.039	0.03		
2.063	34760	26514	0.763	0.07		
2.469	24915	19650	0.789	0.05		
2.551	5751061	5725502	0.996	12.36	$ 2 Tetrachloro-m-xylene	
2.757	21486	20530	0.955	0.04		
2.859	113833	105526	0.927	0.24		
2.924	189885	173371	0.913	0.40		
3.093	21841	17975	0.823	0.04		
3.132	56595	51632	0.912	0.12		
3.396	709158	698730	0.985	1.52		
3.423	303554	285021	0.939	0.65		
3.514	62856	58589	0.932	0.13		
3.595	590475	433208	0.734	1.27		
3.692	35046	37038	1.057	0.07		
3.813	130294	128679	0.988	0.28		
3.838	61781	54823	0.887	0.13		
3.895	1100608	1239591	1.126	2.36		
3.908	1353945	1296551	0.958	2.91		
4.013	928162	706343	0.761	1.99		
4.078	617714	574887	0.931	1.32		
4.143	364867	330183	0.905	0.78		
4.222	142425	133917	0.940	0.30		
4.298	1533706	1428539	0.931	3.29		
4.345	1231419	1162789	0.944	2.64	6 Aroclor 1248	BA
4.377	511428	528054	1.033	1.09		
4.394	536004	520846	0.972	1.15		
4.502	1856241	1750715	0.943	3.99		
4.538	950202	806506	0.849	2.04		
4.631	2142917	1969566	0.919	4.60	6 Aroclor 1248	BA
4.675	30644	32873	1.073	0.06		
4.704	488997	460667	0.942	1.05		
4.764	25103	20319	0.809	0.05		
4.812	61103	48104	0.787	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.854	111732	105300	0.942	0.24	
4.898	1100290	1050495	0.955	2.36	6 Aroclor 1248
4.933	2133965	1993487	0.934	4.58	
4.964	2750728	1819360	0.661	5.91	6 Aroclor 1248
5.043	308858	258458	0.837	0.66	
5.124	1962227	1788981	0.912	4.22	6 Aroclor 1248
5.185	611286	553848	0.906	1.31	
5.213	66521	71242	1.071	0.14	
5.247	814919	754906	0.926	1.75	
5.298	595136	531074	0.892	1.28	
5.370	38040	36256	0.953	0.08	
5.396	122522	106164	0.866	0.26	
5.450	530110	456954	0.862	1.14	
5.494	862368	762949	0.885	1.85	
5.533	526591	476723	0.905	1.13	
5.597	1440106	1215572	0.844	3.09	
5.691	402004	377320	0.939	0.86	
5.763	56021	44966	0.803	0.12	
5.801	79396	66580	0.839	0.17	
5.826	108537	92840	0.855	0.23	
5.848	34192	40510	1.185	0.07	
5.878	1012889	870576	0.859	2.17	
5.975	133667	84738	0.634	0.28	
6.081	32392	29423	0.908	0.06	
6.111	873931	784769	0.898	1.87	
6.140	168424	142643	0.847	0.36	
6.257	86172	57980	0.673	0.18	
6.313	52045	30594	0.588	0.11	
6.388	260189	224606	0.863	0.55	
6.419	45003	41679	0.926	0.09	
6.460	38737	32188	0.831	0.08	
6.513	28399	20674	0.728	0.06	
6.598	43294	41531	0.959	0.09	
6.626	99541	75054	0.754	0.21	
6.692	14353	12911	0.900	0.03	
6.804	42085	37486	0.891	0.09	
6.846	22186	20485	0.923	0.04	
6.889	50681	44472	0.877	0.10	
6.927	22222	15705	0.707	0.04	
7.091	74361	71504	0.962	0.15	
7.338	31989	31314	0.979	0.06	
7.366	9666	9845	1.019	0.02	
7.474	31835	29897	0.939	0.06	
7.529	35999	32095	0.892	0.07	
7.815	17601	20045	1.139	0.03	
7.837	27990	19821	0.708	0.06	
7.887	14038	12531	0.893	0.03	
7.986	32339	29293	0.906	0.06	
8.362	70540	60666	0.860	0.15	
8.440	35045	22583	0.644	0.07	
8.657	6218859	5380816	0.865	13.80	$ 12 Decachlorobiphenyl
9.001	39137	24334	0.622	0.08	
9.530	41583	24657	0.593	0.08	
	46493902	41915175		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 76 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	5751060	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1231418	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	2142917	0.50000	0.50	0.00- 20.00	174.02	BA
4.898	4.898	0.000	1100290	0.50000	0.54	0.00- 20.00	89.35	BA
4.964	4.963	0.001	2750727	0.50000	0.50	0.00- 20.00	223.38	BA
5.123	5.123	0.000	1962227	0.50000	0.52	0.00- 20.00	159.35	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6218858	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

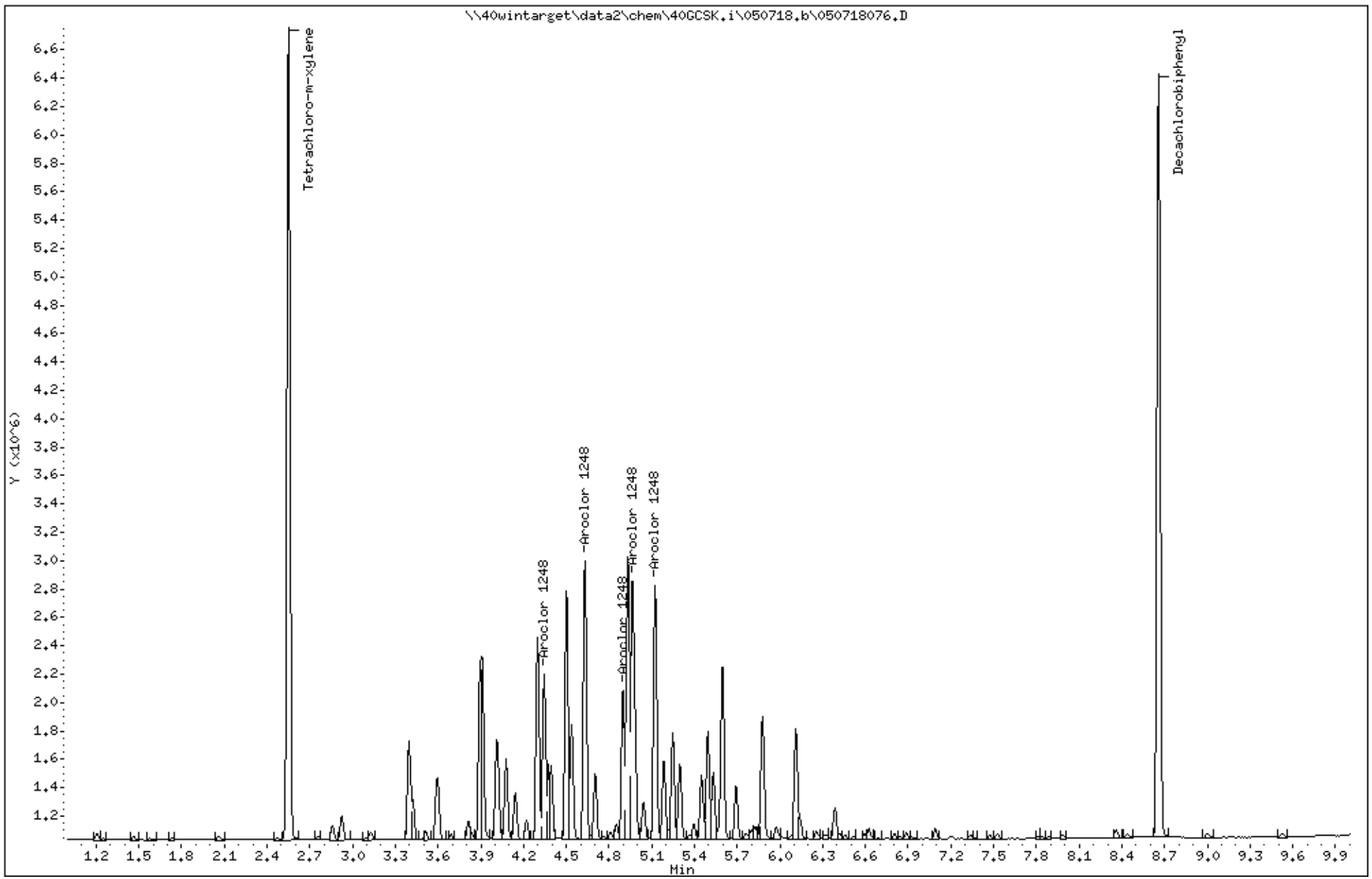
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Date : 08-MAY-2018 14:04
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

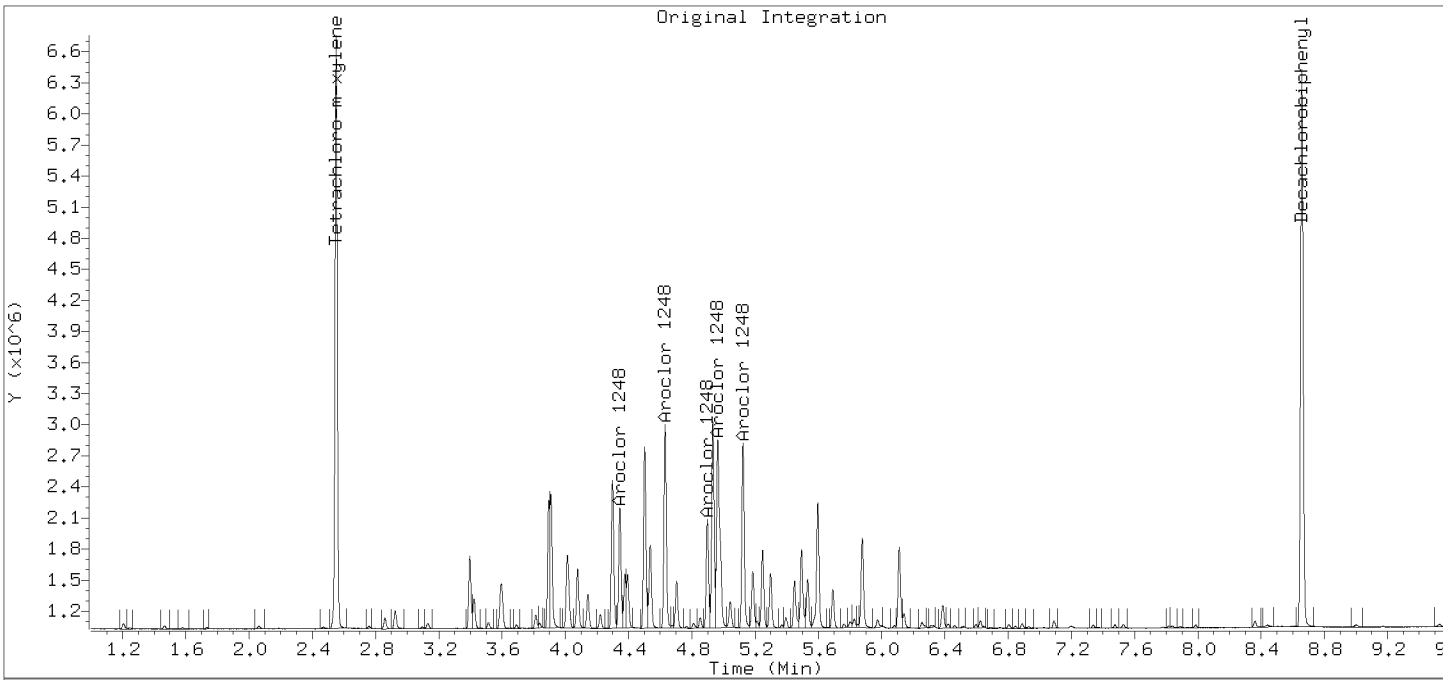
Operator: BLM

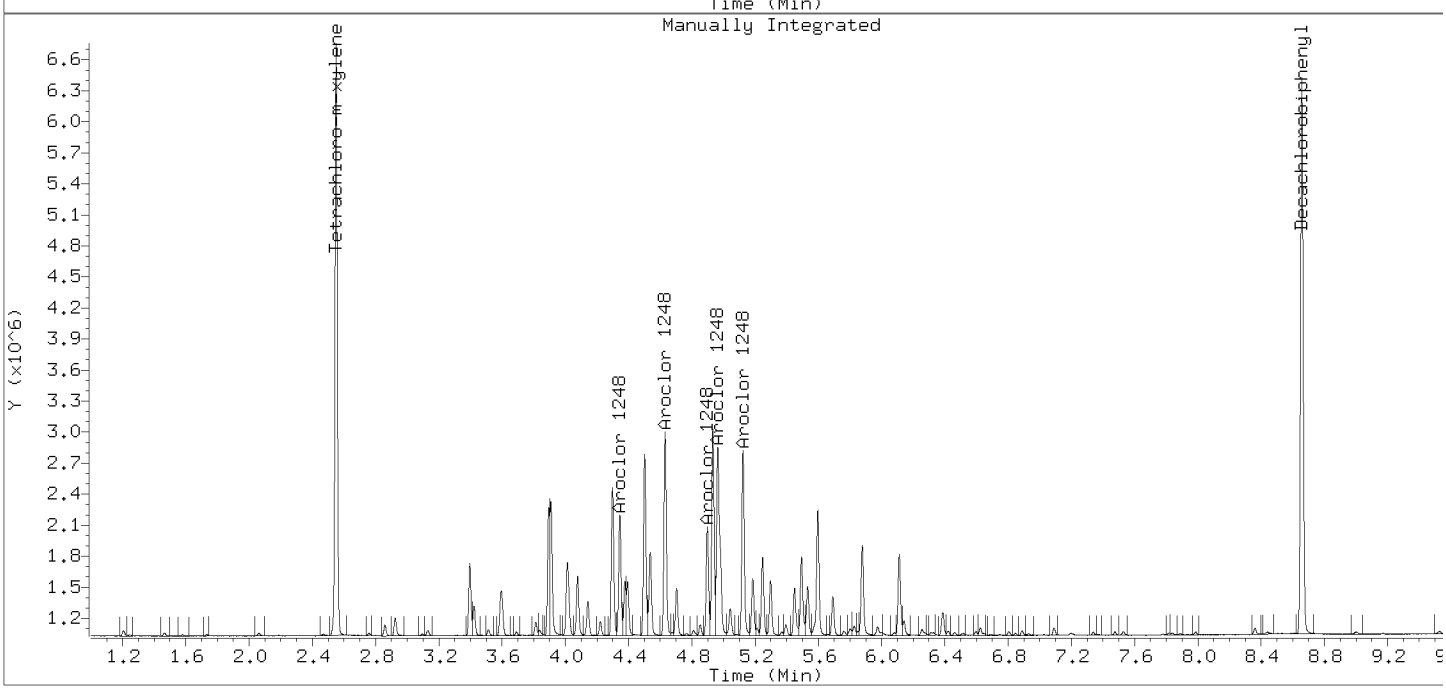
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718076.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 08-MAY-2018 14:04 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Tetrachloro-m-xylene	5751060	5751060	
Decachlorobiphenyl	6218858	6218858	

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.: 40158013

Date Extracted: 04/24/2018 07:41

Lab Sample ID: 1677643

Date Analyzed: 04/25/2018 14:57

Lab File ID: 042518.B\042518007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ 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\40GCSJ.i\042518.b\042518007.D
Lab Smp Id: 1677643 Client Smp ID: MB
Inj Date : 25-APR-2018 14:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677643,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
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
1.542	10178	8235	0.809	0.05		
2.198	18674	9991	0.535	0.09		
2.485	9339750	8545797	0.915	46.35	$ 2 Tetrachloro-m-xylene	
2.788	19672	15532	0.790	0.09		
2.864	34150	21742	0.637	0.16		
2.924	16878	12881	0.763	0.08		
7.727	44670	39002	0.873	0.22		
7.799	31299	26002	0.831	0.15		
8.275	95216	76424	0.803	0.47		
8.379	17849	11432	0.640	0.08		
8.570	10511284	8890498	0.846	52.22	$ 12 Decachlorobiphenyl	
9.961	9466	7785	0.822	0.04		
	20149085	17665321		100.000		

Total unknown % area = 1.4

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518007.D
Lab Smp Id: 1677643 Client Smp ID: MB
Inj Date : 25-APR-2018 14:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677643,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
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		
2.485	2.484	0.001	9339749	0.07575	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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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).

---

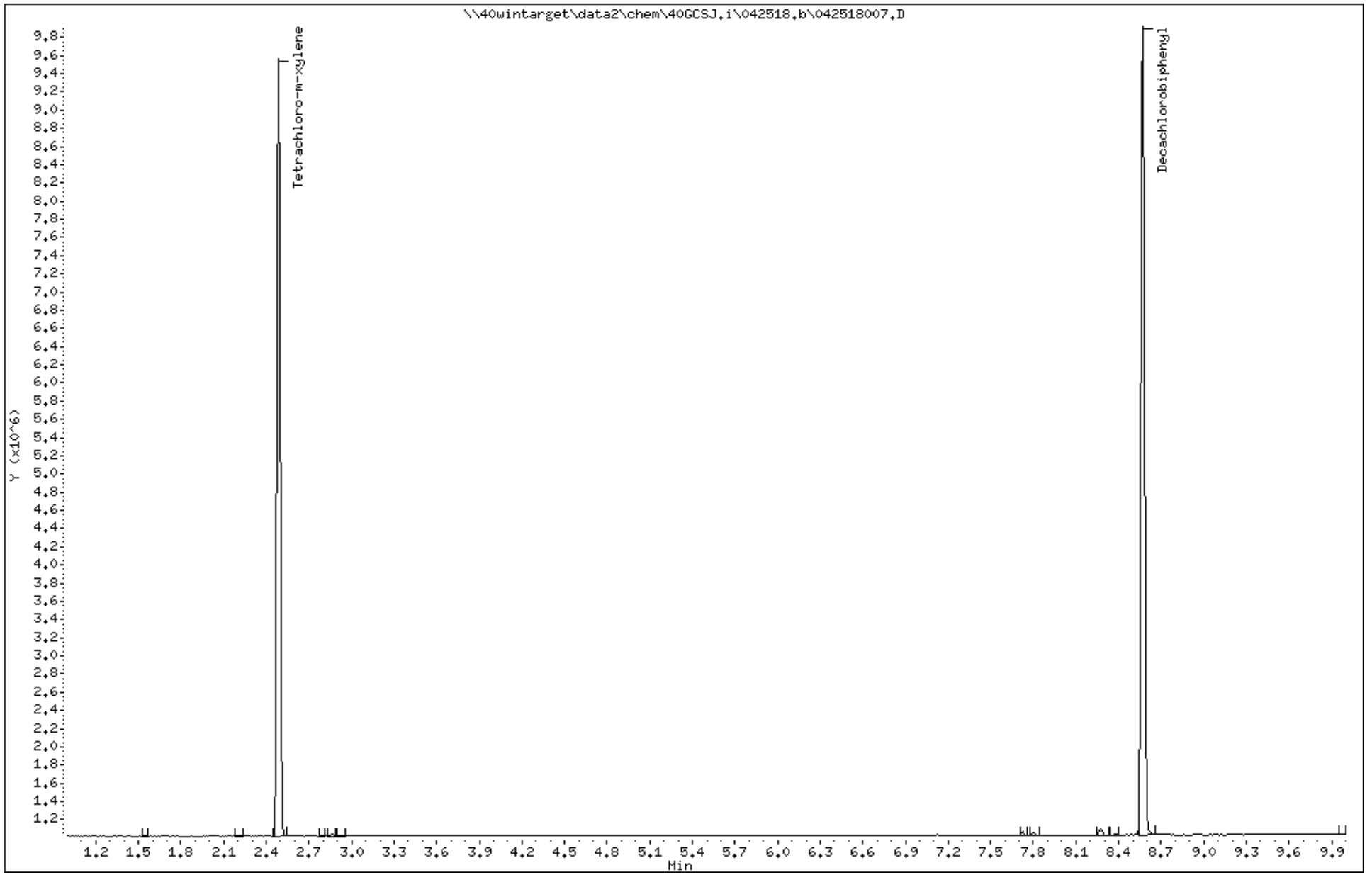
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10511284	0.09594		48		

Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518007.D
Date : 25-APR-2018 14:57
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1677643,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 14:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677643

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	9339749	9339749	
Decachlorobiphenyl	10511284	10511284	

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.: 40158013

Date Extracted: 04/24/2018 07:41

Lab Sample ID: 1677644

Date Analyzed: 04/25/2018 15:13

Lab File ID: 042518.B\042518008.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ 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)	241	
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\40GCSJ.i\042518.b\042518008.D
Lab Smp Id: 1677644 Client Smp ID: MBLCS
Inj Date : 25-APR-2018 15:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677644,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
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
1.184	24931	16135	0.647	0.05		
1.684	13511	12412	0.919	0.02		
1.807	15060	12700	0.843	0.03		
2.199	27117	20024	0.738	0.05		
2.404	115632	86351	0.747	0.24		
2.485	10062946	9349010	0.929	21.53	$ 2 Tetrachloro-m-xylene	
2.687	176406	141560	0.802	0.37		
2.790	214828	195720	0.911	0.45		
2.851	965668	852420	0.883	2.06		
2.916	21512	13123	0.610	0.04		
3.053	121653	105730	0.869	0.26		
3.275	23519	18482	0.786	0.05		
3.317	1216403	1103602	0.907	2.60	3 Aroclor 1242	BA
3.344	680338	626681	0.921	1.45		
3.434	191688	169447	0.884	0.41		
3.514	1184144	860701	0.727	2.53	3 Aroclor 1242	BA
3.646	21436	15052	0.702	0.04		
3.696	34119	32875	0.964	0.07		
3.732	313527	305253	0.974	0.67		
3.756	209768	195574	0.932	0.44		
3.827	3501202	2004363	0.572	7.49	3 Aroclor 1242	BA
3.929	1492861	1229858	0.824	3.19	3 Aroclor 1242	BA
3.994	980599	914596	0.933	2.09	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	268038	241286	0.900	0.57	
4.136	105137	96783	0.921	0.22	
4.214	813198	757877	0.932	1.74	
4.261	768124	717498	0.934	1.64	
4.292	324447	321565	0.991	0.69	
4.309	384360	358780	0.933	0.82	
4.375	26115	20059	0.768	0.05	
4.417	1071185	967624	0.903	2.29	
4.452	837672	603364	0.720	1.79	
4.545	1354015	1234703	0.912	2.89	
4.588	20081	21497	1.070	0.04	
4.617	316078	282306	0.893	0.67	
4.679	21465	18024	0.840	0.04	
4.726	67920	58605	0.863	0.14	
4.769	77109	69752	0.905	0.16	
4.812	638952	601603	0.942	1.36	
4.847	1128630	1044575	0.926	2.41	
4.879	1425209	1083648	0.760	3.05	
4.958	158507	121957	0.769	0.33	
5.038	1191523	1078059	0.905	2.55	
5.099	238802	177458	0.743	0.51	
5.162	275901	243863	0.884	0.59	
5.211	207567	180726	0.871	0.44	
5.280	15981	15344	0.960	0.03	
5.307	48914	39387	0.805	0.10	
5.363	176702	150157	0.850	0.37	
5.406	298996	248697	0.832	0.63	
5.446	181009	161164	0.890	0.38	
5.510	481264	359502	0.747	1.03	
5.604	144579	123062	0.851	0.30	
5.714	28190	22174	0.787	0.06	
5.738	38518	33872	0.879	0.08	
5.791	316225	246601	0.780	0.67	
5.889	47386	30280	0.639	0.10	
6.025	302706	230015	0.760	0.64	
6.167	25779	15720	0.610	0.05	
6.224	19601	10360	0.529	0.04	
6.300	64419	53828	0.836	0.13	
6.373	11056	10229	0.925	0.02	
6.508	10510	11918	1.134	0.02	
6.535	26317	17432	0.662	0.05	
6.718	11545	10390	0.900	0.02	
6.801	14633	11112	0.759	0.03	
7.005	22172	16102	0.726	0.04	
7.125	20018	12450	0.622	0.04	
7.255	9825	8596	0.875	0.02	
7.445	9263	7957	0.859	0.01	
7.690	9901	9881	0.998	0.02	
7.725	47767	40235	0.842	0.10	
7.803	31973	26472	0.828	0.06	
8.273	97787	84903	0.868	0.20	
8.377	23690	15795	0.667	0.05	
8.570	10805472	8906503	0.824	23.50	$ 12 Decachlorobiphenyl
8.944	21713	11114	0.512	0.04	
9.464	14122	10181	0.721	0.03	
9.957	13768	11189	0.813	0.02	
	46720705	39545903		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518008.D
Lab Smp Id: 1677644 Client Smp ID: MBLCS
Inj Date : 25-APR-2018 15:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677644,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
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			
2.485	2.484	0.001	10062945	0.08162	41			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1216402	0.48018	240	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1184144	0.46989	230	0.00- 20.00	97.35	BA
3.826	3.827	-0.001	3501202	0.49199	240	0.00- 20.00	287.83	BA
3.929	3.929	0.000	1492861	0.49082	240	0.00- 20.00	122.73	BA
3.993	3.995	-0.002	980599	0.47887	240	0.00- 20.00	80.61	BA
Average of Peak Concentrations =					240			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10805472	0.09863		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\40GCSJ.i\042518.b\042518008.D

Date : 25-APR-2018 15:13

Client ID: MBLCS

Instrument: 40GCSJ.i

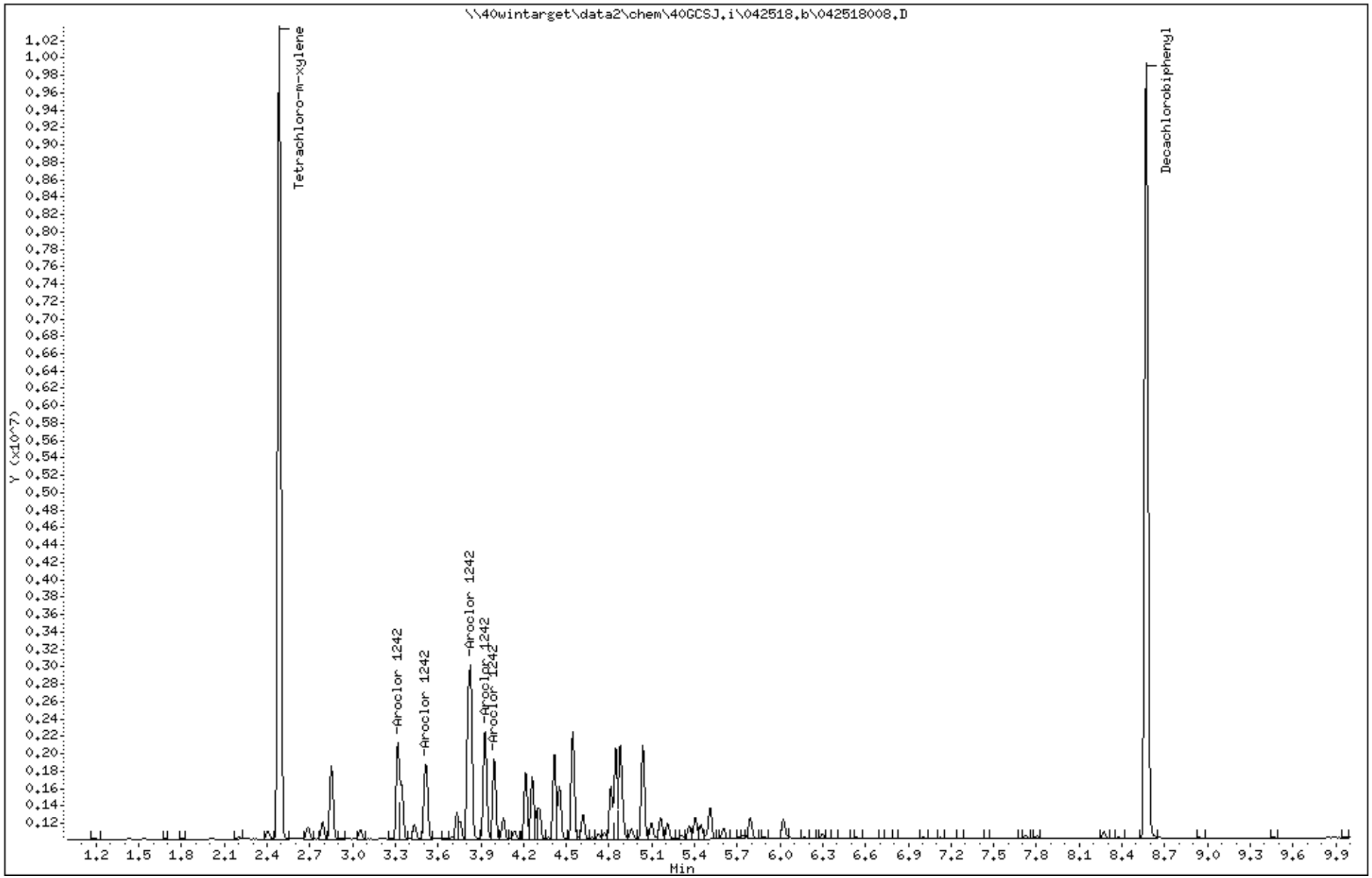
Sample Info: 1677644,

Volume Injected (uL): 1.0

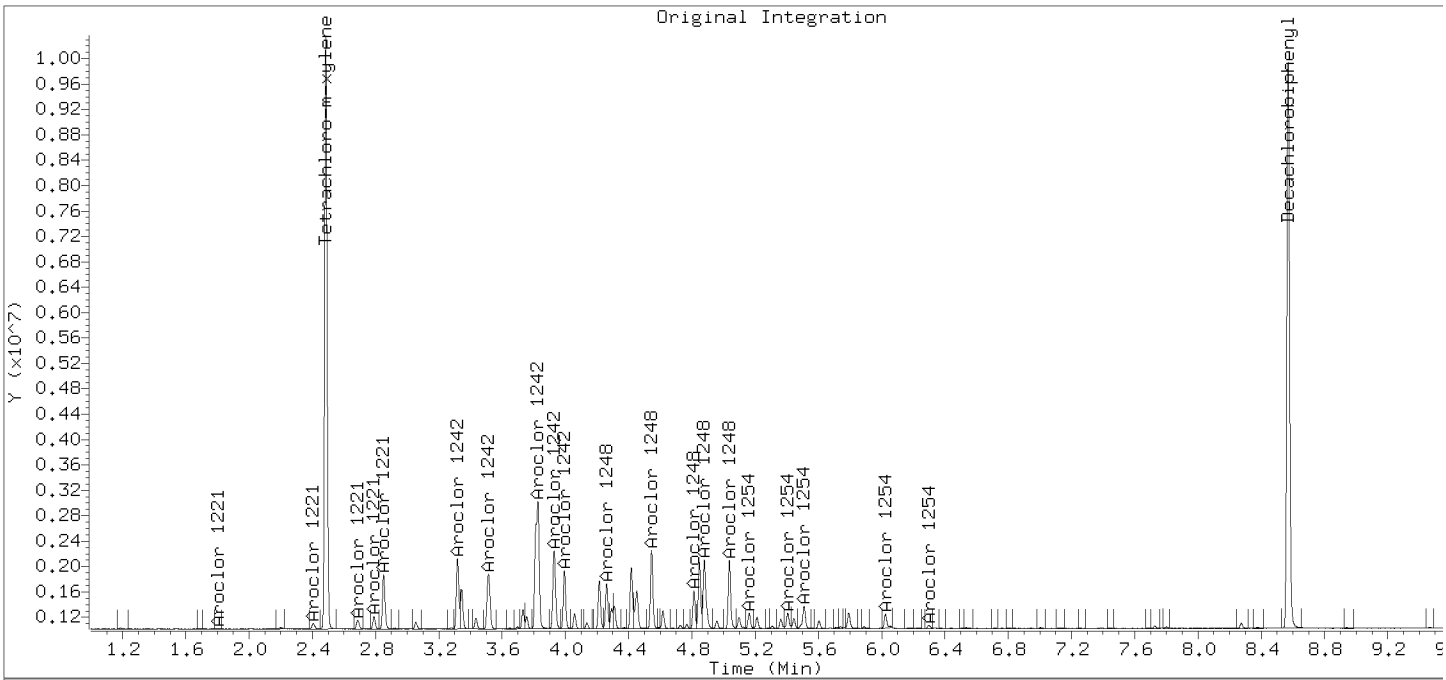
Operator: BLM

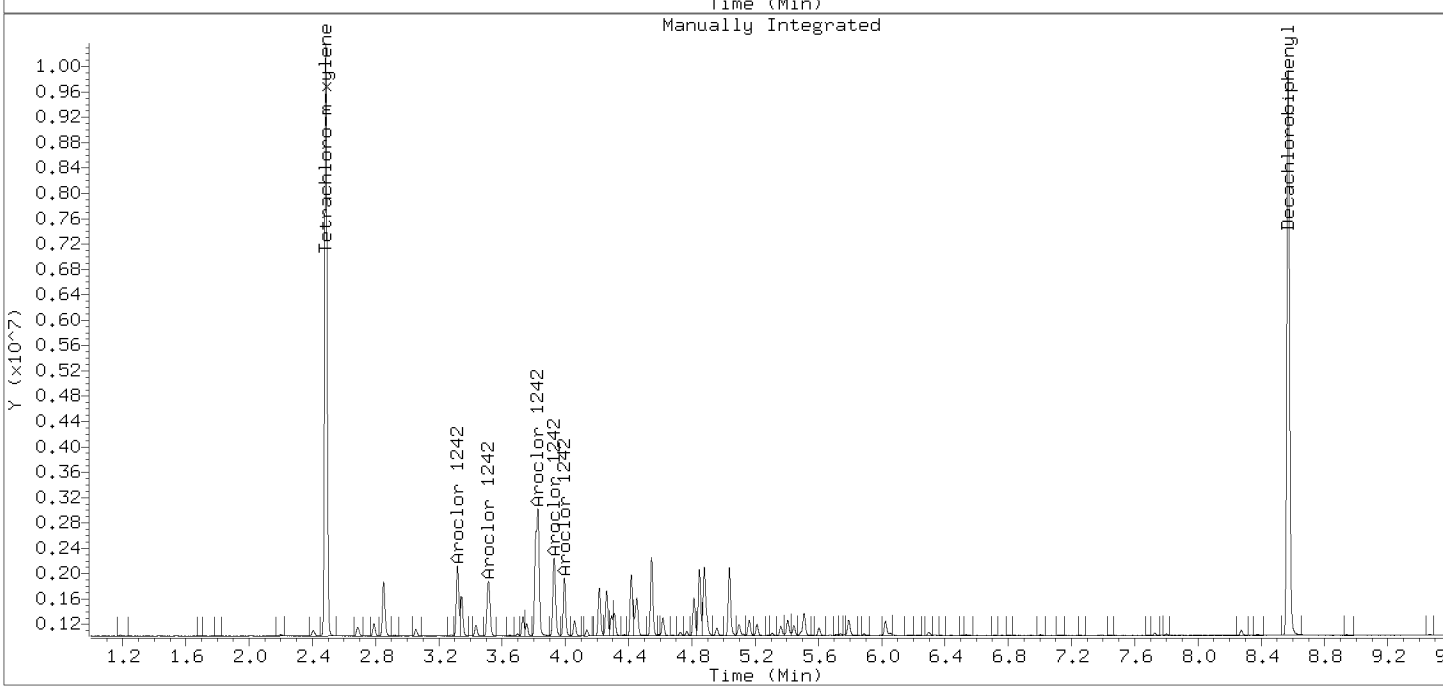
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 15:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677644





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1210603	0	
Aroclor 1016	1210603	0	
Aroclor 1016	1210603	0	
Aroclor 1016	1210603	0	
Aroclor 1016	1210603	0	
Aroclor 1221	15059	0	
Aroclor 1221	15059	0	
Aroclor 1221	15059	0	
Aroclor 1221	15059	0	
Aroclor 1221	15059	0	
Aroclor 1232	960629	0	
Aroclor 1232	960629	0	
Aroclor 1232	960629	0	
Aroclor 1232	960629	0	

Aroclor 1232	960629	0	
Aroclor 1242	1210603	1216402	BA
Aroclor 1242	1210603	1216402	BA
Aroclor 1242	1210603	1216402	BA
Aroclor 1242	1210603	1216402	BA
Aroclor 1242	1210603	1216402	BA
Aroclor 1248	764996	0	
Aroclor 1248	764996	0	
Aroclor 1248	764996	0	
Aroclor 1248	764996	0	
Aroclor 1248	764996	0	
Aroclor 1254	266750	0	
Aroclor 1254	266750	0	
Aroclor 1254	266750	0	
Aroclor 1254	266750	0	
Aroclor 1254	266750	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10062945	10062945	
Decachlorobiphenyl	10805472	10805472	

==========

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.: 40158013

Date Extracted: 04/24/2018 07:41

Lab Sample ID: 1677645

Date Analyzed: 04/25/2018 21:50

Lab File ID: 042518.B\042518033.D

Initial wt/vol: 8.1647 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<140	U
11104-28-2	PCB-1221 (Aroclor 1221)	529	J
11141-16-5	PCB-1232 (Aroclor 1232)	<140	U
53469-21-9	PCB-1242 (Aroclor 1242)	1360	
12672-29-6	PCB-1248 (Aroclor 1248)	3010	
11097-69-1	PCB-1254 (Aroclor 1254)	1250	
11096-82-5	PCB-1260 (Aroclor 1260)	220	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518033.D
Lab Smp Id: 1677645 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 21:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677645 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 QC Sample: MS
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) * CpndV

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.165	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	119753	83495	0.697	0.28	1 Aroclor 1221	BA
2.485	1237342	1157789	0.936	2.98	$ 2 Tetrachloro-m-xylene	BA
2.686	39249	27694	0.706	0.09	1 Aroclor 1221	BA
2.789	47085	37520	0.797	0.11	1 Aroclor 1221	BA
2.851	182255	161649	0.887	0.44	1 Aroclor 1221	BA
3.055	125722	114774	0.913	0.30		
3.318	322172	301369	0.935	0.77	3 Aroclor 1242	BA
3.344	346561	303682	0.876	0.83		
3.433	317675	292577	0.921	0.76		
3.518	715279	620681	0.868	1.72	3 Aroclor 1242	BA
3.643	58797	45799	0.779	0.14		
3.732	432478	422724	0.977	1.04		
3.756	175987	168330	0.956	0.42		
3.814	2029365	1138633	0.561	4.90	3 Aroclor 1242	BA
3.936	566914	411553	0.726	1.36	3 Aroclor 1242	BA
3.993	471633	427937	0.907	1.13	3 Aroclor 1242	BA
4.059	152114	135193	0.889	0.36		
4.136	25042	22947	0.916	0.06		
4.215	2172903	2000171	0.921	5.24		
4.261	2217671	2026840	0.914	5.35	6 Aroclor 1248	BA
4.292	2263131	1821173	0.805	5.90		
4.349	31327	23477	0.749	0.07		
4.417	553683	517962	0.935	1.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	642965	542628	0.844	1.55	
4.545	1620684	1462299	0.902	3.91	6 Aroclor 1248
4.588	146021	130635	0.895	0.35	
4.616	104993	86572	0.825	0.25	
4.680	138666	122597	0.884	0.33	
4.736	173629	120423	0.694	0.41	
4.768	243618	231620	0.951	0.58	
4.813	864872	819857	0.948	2.08	6 Aroclor 1248
4.848	998207	931466	0.933	2.41	
4.878	2204391	1289961	0.585	5.32	6 Aroclor 1248
4.957	481461	400978	0.833	1.16	
5.036	909413	812601	0.894	2.19	6 Aroclor 1248
5.101	773951	677777	0.876	1.86	
5.161	1286045	1108942	0.862	3.10	7 Aroclor 1254
5.212	985687	866261	0.879	2.38	
5.284	125361	111013	0.886	0.30	
5.308	147296	117898	0.800	0.35	
5.362	390010	346222	0.888	0.94	
5.406	815672	715037	0.877	1.97	7 Aroclor 1254
5.446	581555	495249	0.852	1.40	
5.479	125941	115596	0.918	0.30	
5.509	1655369	1406891	0.850	3.99	7 Aroclor 1254
5.578	72772	61662	0.847	0.17	
5.605	208707	169312	0.811	0.50	
5.674	455621	421523	0.925	1.10	
5.711	177783	134378	0.756	0.42	
5.742	287191	220135	0.767	0.69	
5.790	1731575	1261170	0.728	4.18	
5.885	180461	130632	0.724	0.43	
5.930	139308	86870	0.624	0.33	
5.993	268768	247984	0.923	0.64	
6.025	736737	640972	0.870	1.77	7 Aroclor 1254
6.055	905291	755403	0.834	2.18	
6.169	237650	143661	0.605	0.57	
6.227	70190	86123	1.227	0.16	
6.241	142167	107420	0.756	0.34	
6.300	1451040	1172986	0.808	3.50	7 Aroclor 1254
6.333	144591	124726	0.863	0.34	
6.374	78193	55370	0.708	0.18	
6.432	136037	106087	0.780	0.32	
6.510	424195	384433	0.906	1.02	
6.535	346582	239445	0.691	0.83	
6.603	58222	41737	0.717	0.14	
6.657	37302	25549	0.685	0.09	
6.718	125142	103402	0.826	0.30	
6.758	123141	105405	0.856	0.29	
6.801	171060	147533	0.862	0.41	
6.840	96723	64641	0.668	0.23	
6.942	58718	48304	0.823	0.14	
7.004	253864	228875	0.902	0.61	8 Aroclor 1260
7.034	34795	36874	1.060	0.08	
7.118	19851	12356	0.622	0.04	
7.251	172643	150949	0.874	0.41	8 Aroclor 1260
7.280	75405	53202	0.706	0.18	
7.388	144984	123247	0.850	0.35	
7.441	152560	117653	0.771	0.36	8 Aroclor 1260
7.691	33758	30015	0.889	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.724	50286	34387	0.684	0.12	
7.780	13703	10494	0.766	0.03	
7.802	26218	16248	0.620	0.06	
7.900	79183	67394	0.851	0.19	8 Aroclor 1260
7.960	17754	9885	0.557	0.04	
8.050	15704	9042	0.576	0.03	
8.274	87744	73093	0.833	0.21	
8.378	9336	8028	0.860	0.02	
8.569	1309125	1149512	0.878	3.16	$ 12 Decachlorobiphenyl
9.170	21599	14857	0.688	0.05	
	41403621	34409466		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518033.D
Lab Smp Id: 1677645 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 21:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677645 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 QC Sample: MS
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) * CpndV

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.165	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	119753	0.21859	1300	0.00- 20.00	0.00	BA
2.686	2.688	-0.002	39249	0.02837	170	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	47084	0.04258	260	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	182255	0.05599	340	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					530			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1237341	0.01004	61		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	322171	0.12718	780	0.00- 20.00	100.00(RM)	BA
3.518	3.513	0.005	715279	0.28384	1700	0.00- 20.00	222.02	BA
3.814	3.827	-0.013	2029365	0.28517	1700	0.00- 20.00	629.90	BA
3.936	3.929	0.007	566913	0.18639	1100	0.00- 20.00	175.97	BA
3.993	3.995	-0.002	471633	0.23032	1400	0.00- 20.00	146.39	BA
Average of Peak Concentrations =					1400			

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			
4.261	4.261	0.000	2217670	0.94652	5800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1620683	0.39050	2400	0.00- 20.00	73.08	BA
4.813	4.812	0.001	864872	0.42603	2600	0.00- 20.00	39.00	BA
4.878	4.879	-0.001	2204391	0.43760	2700	0.00- 20.00	99.40	BA
5.036	5.038	-0.002	909413	0.25342	1600	0.00- 20.00	41.01	BA
Average of Peak Concentrations =					3000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1286044	0.24565	1500	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	815672	0.18964	1200	0.00- 20.00	63.42	BA
5.508	5.510	-0.002	1655369	0.21315	1300	0.00- 20.00	128.72	BA
6.025	6.027	-0.002	736736	0.15129	930	0.00- 20.00	57.29	BA
6.300	6.299	0.001	1451039	0.22299	1400	0.00- 20.00	112.83	BA
Average of Peak Concentrations =					1200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	253863	0.02535	160	0.00- 20.00	19.86	CO
7.251	7.251	0.000	172643	0.03612	220	0.00- 20.00	11.90	CO
7.441	7.443	-0.002	152560	0.05233	320	0.00- 20.00	10.51	CO
7.900	7.901	-0.001	79183	0.03001	180	0.00- 20.00	5.46	CO
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1309124	0.01195	73			

QC Flag Legend

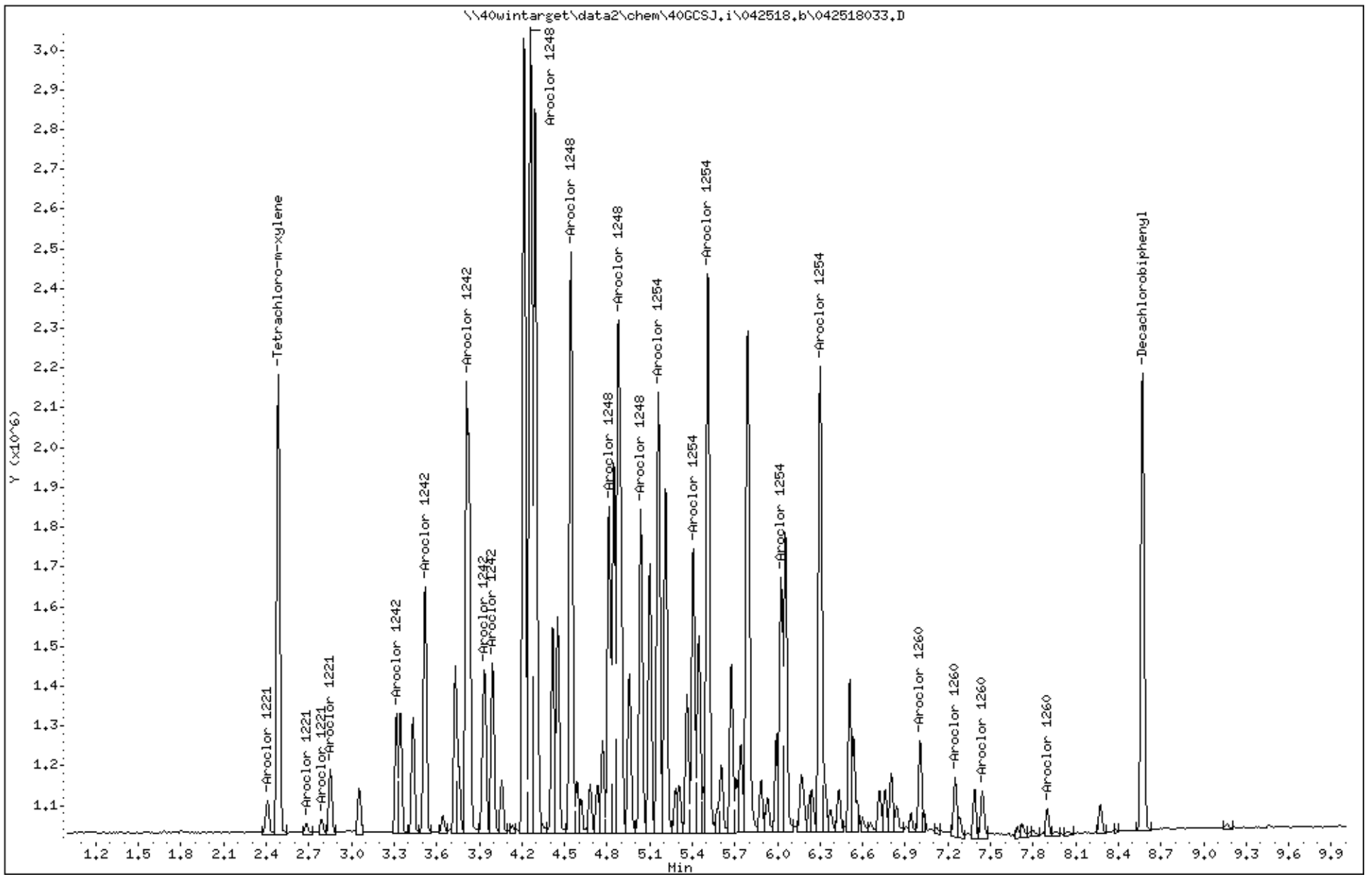
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

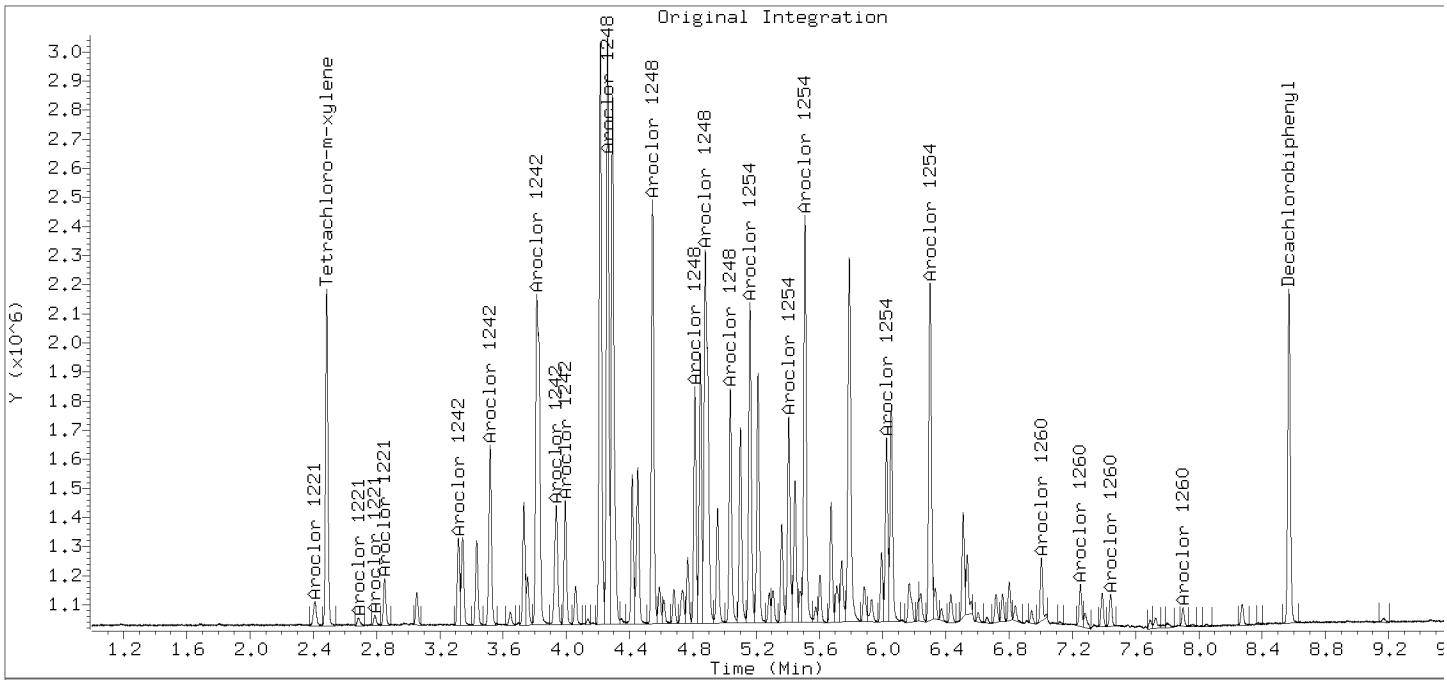
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

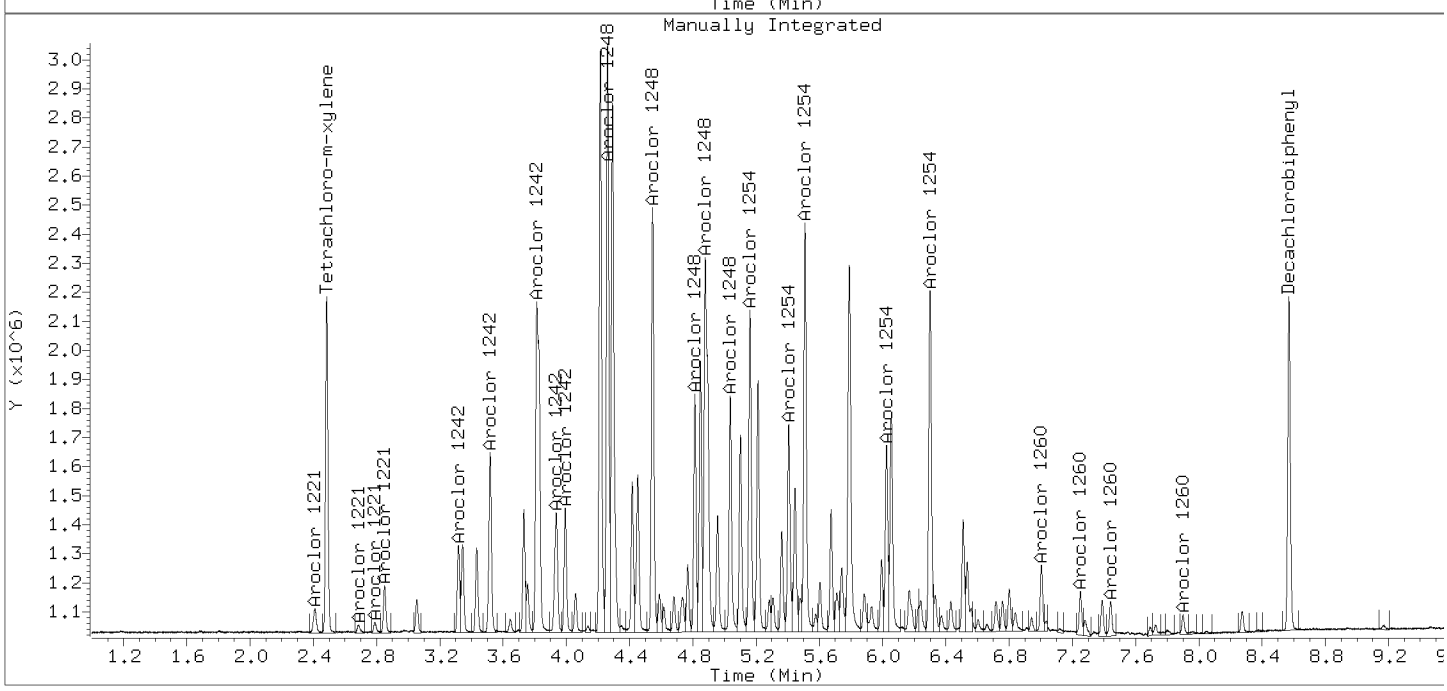
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518033.D
Date : 25-APR-2018 21:50
Client ID: SW2-170829-01-PKSD-
Sample Info: 1677645 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 21:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677645





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	320057	0	
Aroclor 1016	320057	0	
Aroclor 1016	320057	0	
Aroclor 1016	320057	0	
Aroclor 1016	320057	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	176245	0	
Aroclor 1232	176245	0	
Aroclor 1232	176245	0	
Aroclor 1232	176245	0	

Aroclor 1232	176245	0	
Aroclor 1242	320057	322171	BA
Aroclor 1242	320057	322171	BA
Aroclor 1242	320057	322171	BA
Aroclor 1242	320057	322171	BA
Aroclor 1242	320057	322171	BA
Aroclor 1248	2205830	2217670	BA
Aroclor 1248	2205830	2217670	BA
Aroclor 1248	2205830	2217670	BA
Aroclor 1248	2205830	2217670	BA
Aroclor 1248	2205830	2217670	BA
Aroclor 1254	1262964	1286044	BA
Aroclor 1254	1262964	1286044	BA
Aroclor 1254	1262964	1286044	BA
Aroclor 1254	1262964	1286044	BA
Aroclor 1254	1262964	1286044	BA
Aroclor 1260	1407649	0	CO
Aroclor 1260	1407649	0	CO
Aroclor 1260	1407649	0	CO
Aroclor 1260	1407649	0	CO
Aroclor 1260	1407649	0	CO
Tetrachloro-m-xylene	1236154	1237341	BA
Decachlorobiphenyl	1309124	1309124	

==========

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.: 40158013

Date Extracted: 04/24/2018 07:41

Lab Sample ID: 1677646

Date Analyzed: 04/25/2018 22:06

Lab File ID: 042518.B\042518034.D

Initial wt/vol: 8.8754 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<128	U
11104-28-2	PCB-1221 (Aroclor 1221)	313	J
11141-16-5	PCB-1232 (Aroclor 1232)	<128	U
53469-21-9	PCB-1242 (Aroclor 1242)	<128	U
12672-29-6	PCB-1248 (Aroclor 1248)	2290	
11097-69-1	PCB-1254 (Aroclor 1254)	1000	
11096-82-5	PCB-1260 (Aroclor 1260)	179	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518034.D
Lab Smp Id: 1677646 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 22:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677646 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 QC Sample: FIELDDUP
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.875	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	92986	68849	0.740	0.26	1 Aroclor 1221	BA
2.484	1100959	1046511	0.951	3.19	$ 2 Tetrachloro-m-xylene	BA
2.684	19688	11635	0.591	0.05	1 Aroclor 1221	BA
2.789	19467	16065	0.825	0.05	1 Aroclor 1221	BA
2.851	67294	55018	0.818	0.19	1 Aroclor 1221	BA
2.972	19006	11003	0.579	0.05		
3.054	104795	93511	0.892	0.30		
3.318	163384	158733	0.972	0.47		
3.344	233293	209499	0.898	0.67		
3.433	263006	244173	0.928	0.76		
3.520	499646	480090	0.961	1.44		
3.644	48704	41441	0.851	0.14		
3.732	354467	342919	0.967	1.02		
3.755	127028	123685	0.974	0.36		
3.814	1445234	861554	0.596	4.19		
3.938	348263	294166	0.845	1.00		
3.993	319346	295027	0.924	0.92		
4.058	107464	97917	0.911	0.31		
4.214	1876736	1740149	0.927	5.44		
4.261	1909573	1796873	0.941	5.53	6 Aroclor 1248	BA
4.292	1951571	1588577	0.814	6.10		
4.348	28737	22770	0.792	0.08		
4.417	378337	346816	0.917	1.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	490018	432087	0.882	1.42	
4.545	1316594	1194975	0.908	3.81	6 Aroclor 1248
4.588	126540	113492	0.897	0.36	
4.618	59875	46284	0.773	0.17	
4.682	123705	106875	0.864	0.35	
4.735	149412	104077	0.697	0.43	
4.768	210286	194756	0.926	0.60	
4.813	705839	660281	0.935	2.04	6 Aroclor 1248
4.847	772297	716560	0.928	2.23	
4.879	1839911	1043912	0.567	5.33	6 Aroclor 1248
4.956	411878	344820	0.837	1.19	
5.037	679790	612063	0.900	1.97	6 Aroclor 1248
5.101	667689	587886	0.880	1.93	
5.161	1128984	966303	0.856	3.27	7 Aroclor 1254
5.212	858167	762705	0.889	2.48	
5.284	107047	98526	0.920	0.31	
5.308	131368	101880	0.776	0.38	
5.362	337278	290346	0.861	0.97	
5.406	690233	631966	0.916	2.00	7 Aroclor 1254
5.446	502899	412692	0.821	1.45	
5.479	111925	102763	0.918	0.32	
5.509	1430790	1248963	0.873	4.14	7 Aroclor 1254
5.577	65591	57618	0.878	0.19	
5.604	177830	139691	0.786	0.51	
5.675	405307	374457	0.924	1.17	
5.711	161349	120303	0.746	0.46	
5.741	249201	193735	0.777	0.72	
5.790	1512822	1113179	0.736	4.38	
5.884	166225	112290	0.676	0.48	
5.932	121671	79062	0.650	0.35	
5.993	241779	215973	0.893	0.70	
6.025	628441	539677	0.859	1.82	7 Aroclor 1254
6.056	808370	671125	0.830	2.34	
6.169	212376	134968	0.636	0.61	
6.228	67002	76456	1.141	0.19	
6.241	126395	93445	0.739	0.36	
6.301	1288565	1011606	0.785	3.73	7 Aroclor 1254
6.332	129267	112877	0.873	0.37	
6.372	73793	49699	0.673	0.21	
6.432	129540	93235	0.720	0.37	
6.509	387827	342143	0.882	1.12	
6.536	314632	213912	0.680	0.91	
6.605	54667	36454	0.667	0.15	
6.660	38037	24792	0.652	0.11	
6.718	117504	95689	0.814	0.34	
6.758	114177	93919	0.823	0.33	
6.802	151696	128723	0.849	0.43	
6.841	94141	58312	0.619	0.27	
6.905	19288	14168	0.735	0.05	
6.941	55262	44847	0.812	0.16	
7.005	232331	205150	0.883	0.67	8 Aroclor 1260
7.033	46030	34167	0.742	0.13	
7.250	151110	130972	0.867	0.43	8 Aroclor 1260
7.279	72659	47940	0.660	0.21	
7.340	22548	13438	0.596	0.06	
7.389	130434	110976	0.851	0.37	
7.442	131528	106865	0.812	0.38	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.616	19300	9965	0.516	0.05	
7.690	28921	26885	0.930	0.08	
7.728	40796	30145	0.739	0.11	
7.900	72192	57940	0.803	0.20	8 Aroclor 1260
7.964	15228	9436	0.620	0.04	
8.049	12472	10635	0.853	0.03	
8.273	82271	68164	0.829	0.23	
8.570	1158964	1002352	0.865	3.36	$ 12 Decachlorobiphenyl
9.170	21686	14828	0.684	0.06	
	34482736	28843406		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518034.D
Lab Smp Id: 1677646 Client Smp ID: SW2-170829-01-PKSD-
Inj Date : 25-APR-2018 22:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677646 x10,
Misc Info : 17730,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 27-Apr-2018 08:43 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 QC Sample: FIELDDUP
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.875	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.411	2.407	0.004	92986	0.16973	960	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	19687	0.01423	80	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	19467	0.01760	99	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	67294	0.02067	120	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					310			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1100959	0.00893	50		(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			
4.260	4.261	-0.001	1909573	0.81502	4600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1316593	0.31723	1800	0.00- 20.00	68.95	BA
4.812	4.812	0.000	705839	0.34769	2000	0.00- 20.00	36.96	BA
4.879	4.879	0.000	1839910	0.36525	2000	0.00- 20.00	96.35	BA
5.037	5.038	-0.001	679789	0.18943	1100	0.00- 20.00	35.60	BA
Average of Peak Concentrations =					2300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1128983	0.21565	1200	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	690233	0.16048	900	0.00- 20.00	61.14	BA
5.509	5.510	-0.001	1430790	0.18424	1000	0.00- 20.00	126.73	BA
6.024	6.027	-0.003	628441	0.12905	730	0.00- 20.00	55.66	BA
6.300	6.299	0.001	1288565	0.19802	1100	0.00- 20.00	114.14	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	232331	0.02320	130	0.00- 20.00	18.03	BA
7.249	7.251	-0.002	151110	0.03161	180	0.00- 20.00	11.73	BA
7.442	7.443	-0.001	131528	0.04512	250	0.00- 20.00	10.21	BA
7.900	7.901	-0.001	72192	0.02736	150	0.00- 20.00	5.60	BA
Average of Peak Concentrations =					180			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1158964	0.01058	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.
:

Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518034.D

Date : 25-APR-2018 22:06

Client ID: SW2-170829-01-PKSD-

Instrument: 40GCSJ.i

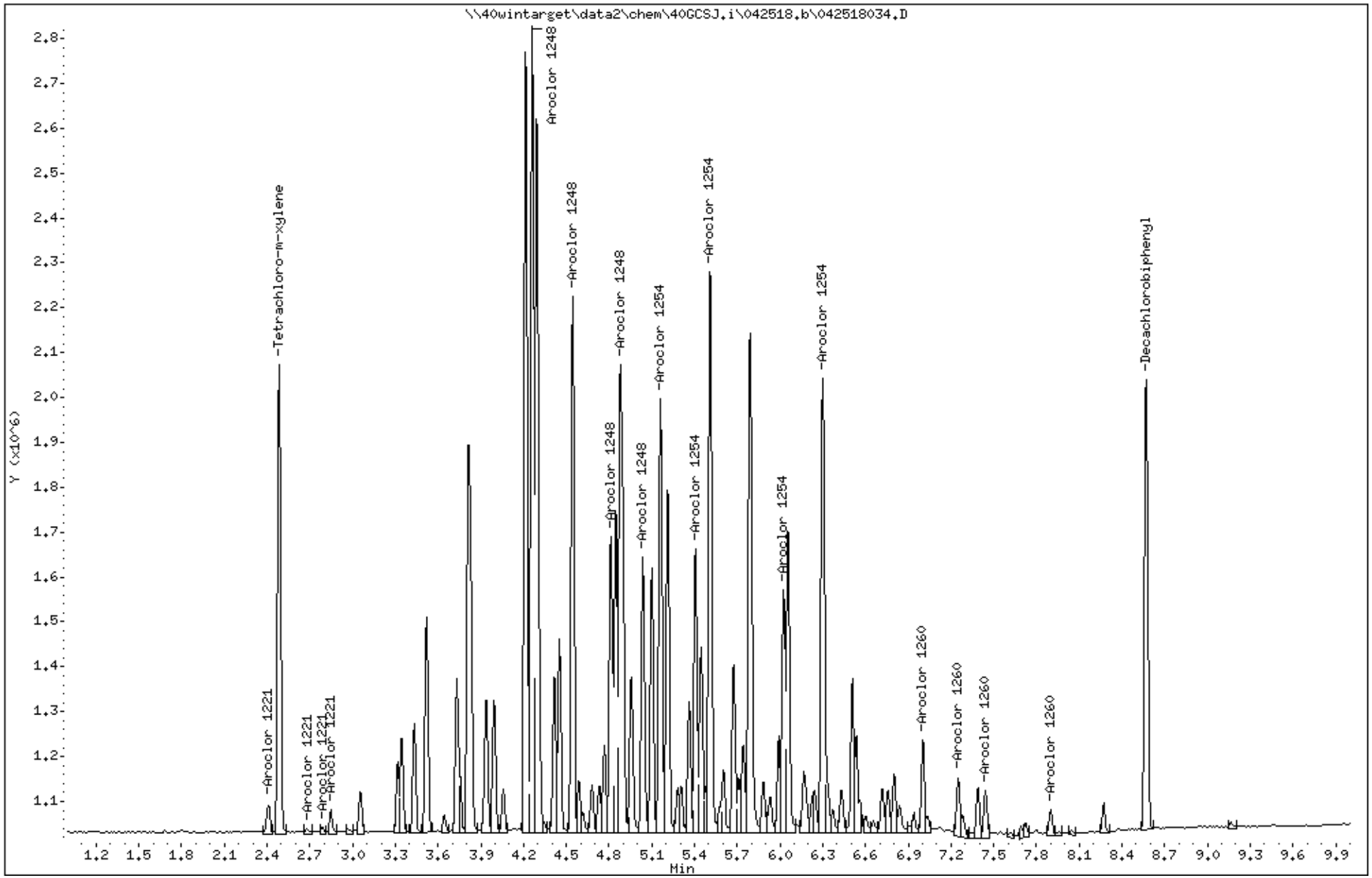
Sample Info: 1677646 x10,

Volume Injected (uL): 1.0

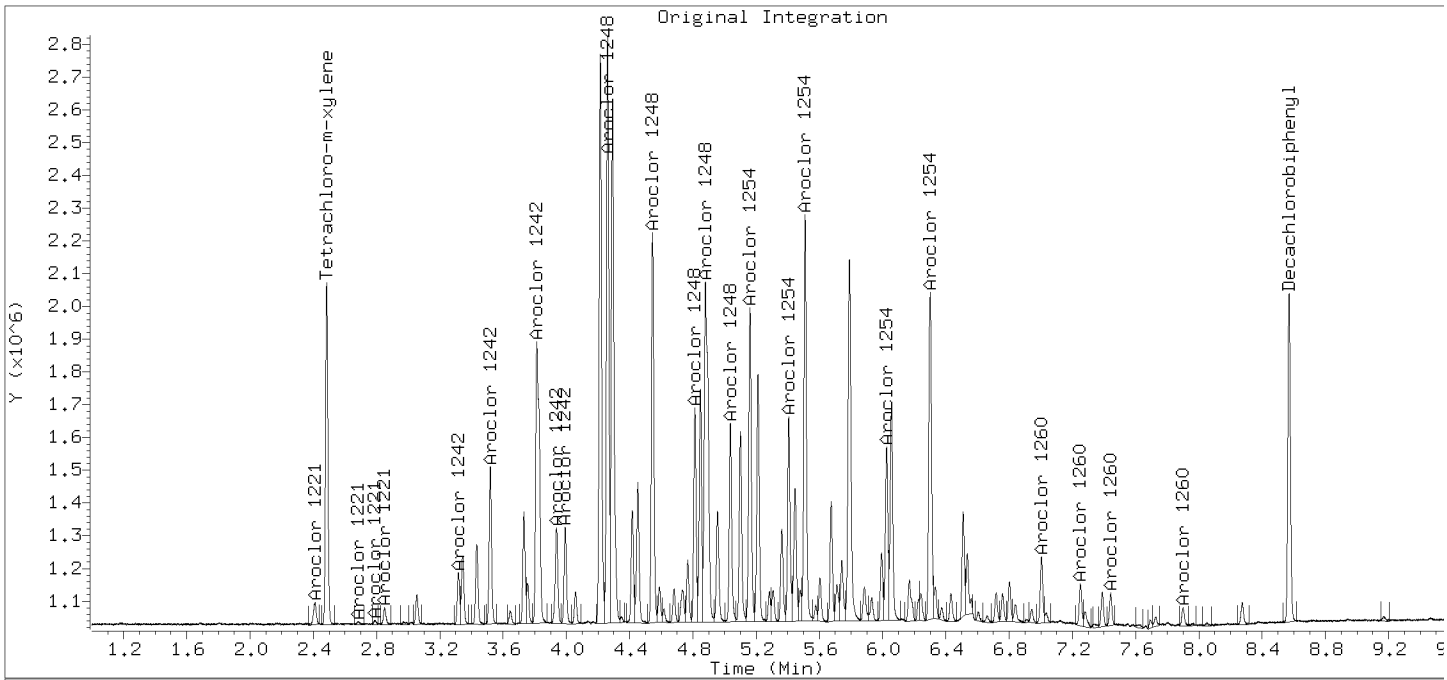
Operator: BLM

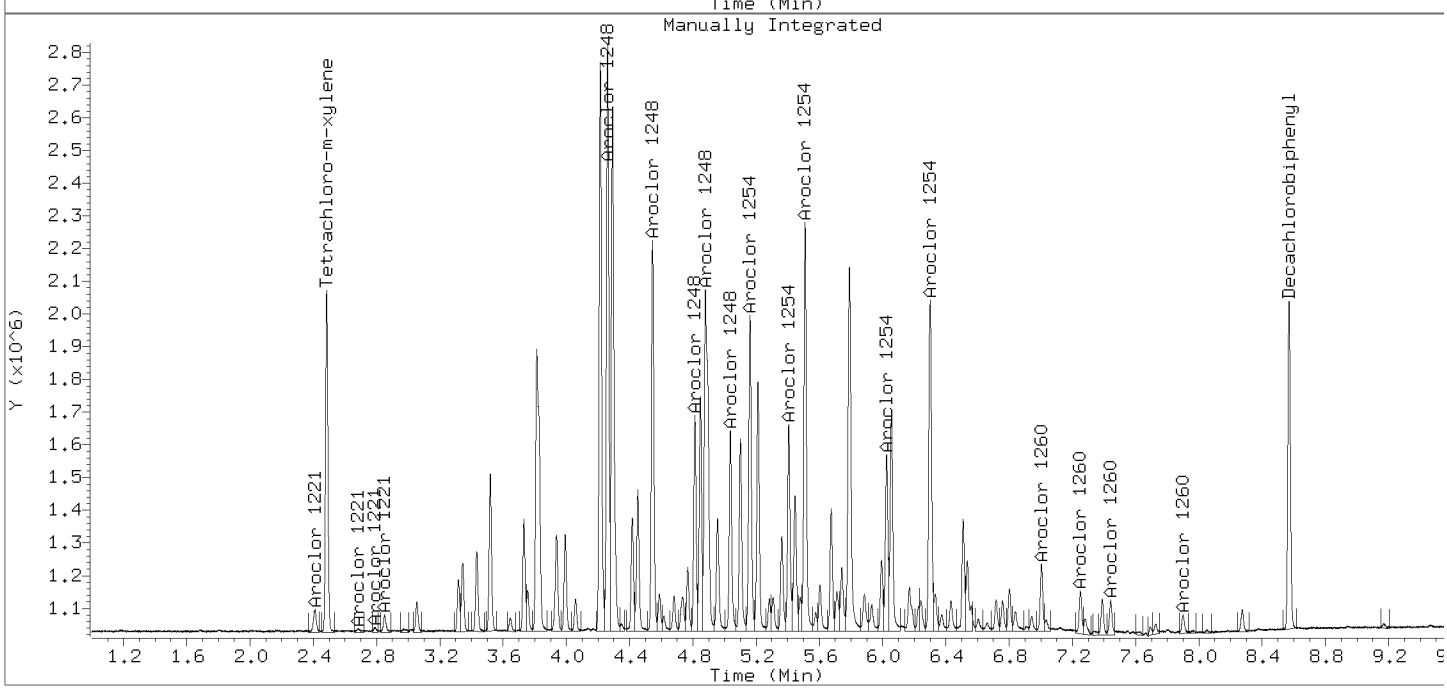
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 22:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677646





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	163383	0	
Aroclor 1016	163383	0	
Aroclor 1016	163383	0	
Aroclor 1016	163383	0	
Aroclor 1016	163383	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	62775	0	
Aroclor 1232	62775	0	
Aroclor 1232	62775	0	
Aroclor 1232	62775	0	

Aroclor 1232	62775	0	
Aroclor 1242	163383	0	
Aroclor 1242	163383	0	
Aroclor 1242	163383	0	
Aroclor 1242	163383	0	
Aroclor 1242	163383	0	
Aroclor 1248	1899643	1909573	BA
Aroclor 1248	1899643	1909573	BA
Aroclor 1248	1899643	1909573	BA
Aroclor 1248	1899643	1909573	BA
Aroclor 1248	1899643	1909573	BA
Aroclor 1254	1105052	1128983	BA
Aroclor 1254	1105052	1128983	BA
Aroclor 1254	1105052	1128983	BA
Aroclor 1254	1105052	1128983	BA
Aroclor 1254	1105052	1128983	BA
Aroclor 1260	1248114	0	BA
Aroclor 1260	1248114	0	BA
Aroclor 1260	1248114	0	BA
Aroclor 1260	1248114	0	BA
Aroclor 1260	1248114	0	BA
Tetrachloro-m-xylene	1098317	1100959	BA
Decachlorobiphenyl	1158964	1158964	

==========

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.: 40158013

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		

---

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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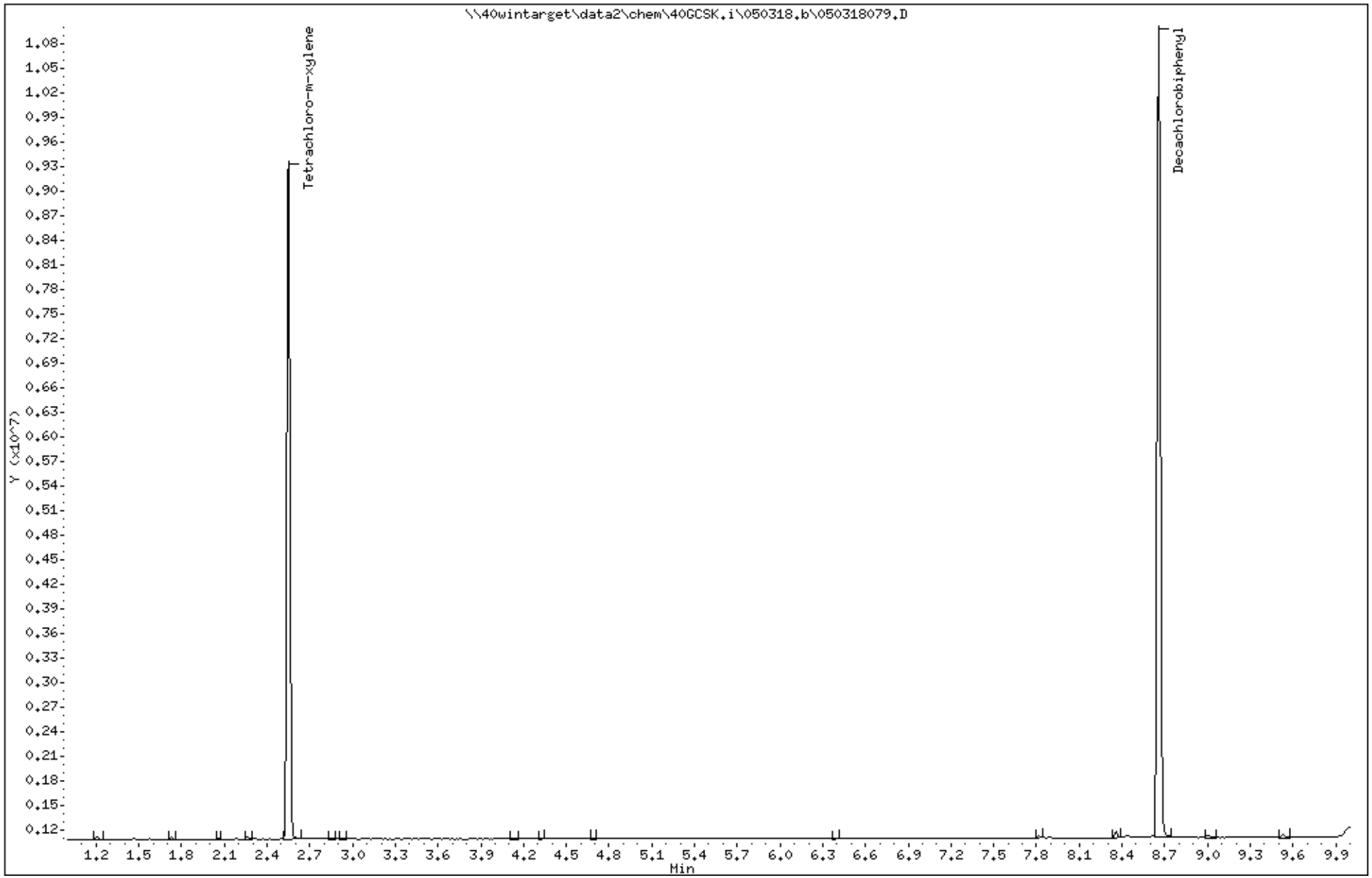
8 Aroclor 1260 CAS #: 11096-82-5

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.: 40158013

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

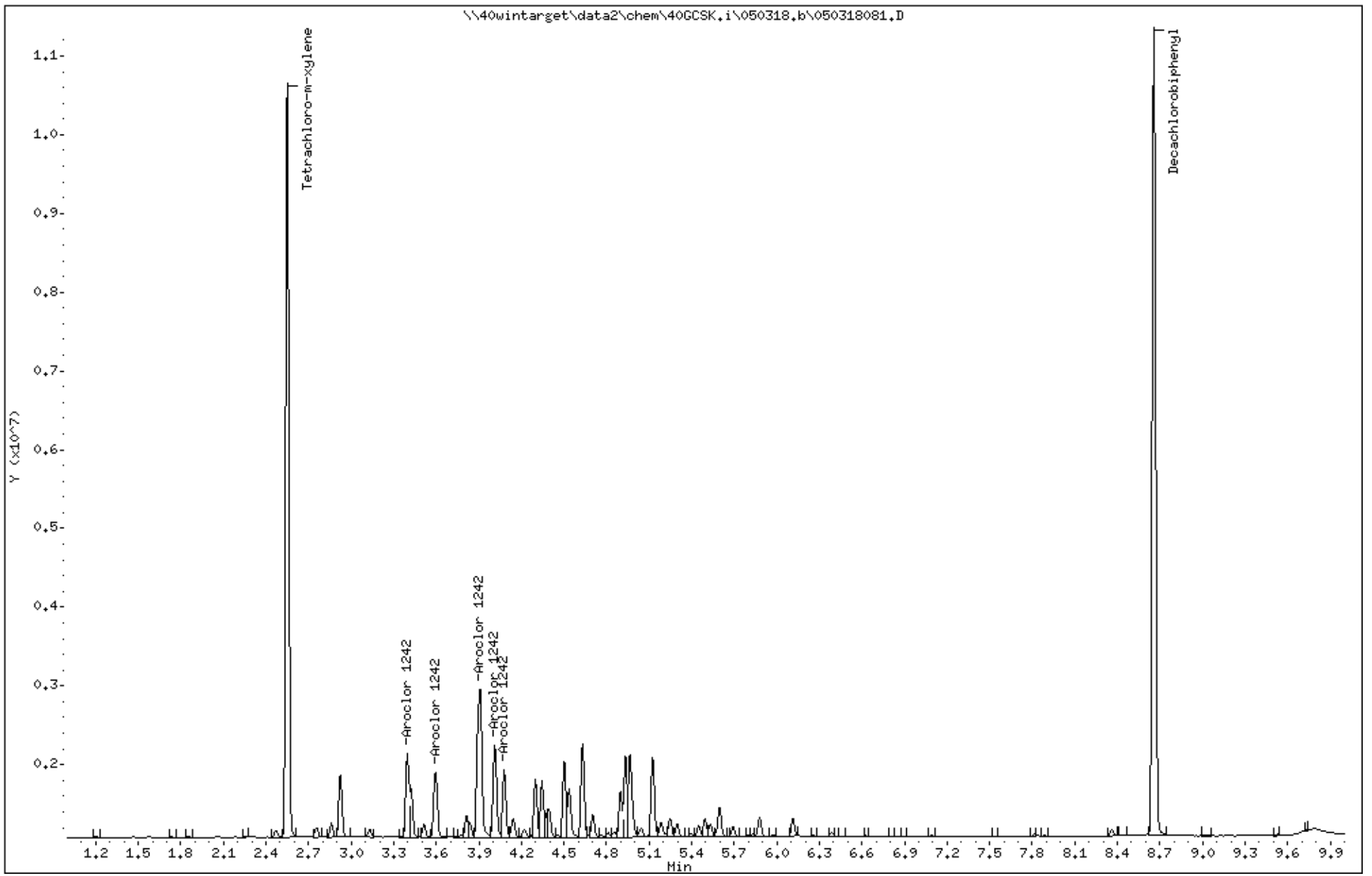
Sample Info: 1679887,

Volume Injected (uL): 1.0

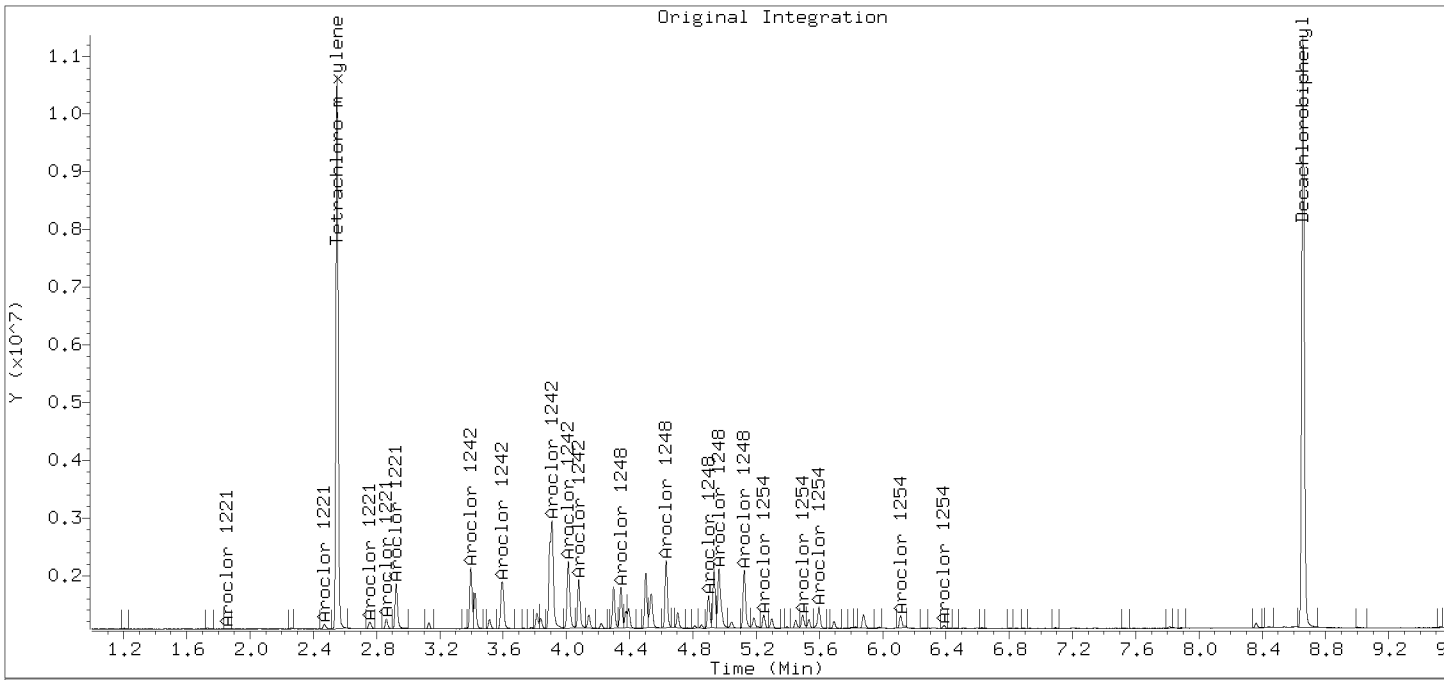
Operator: BLM

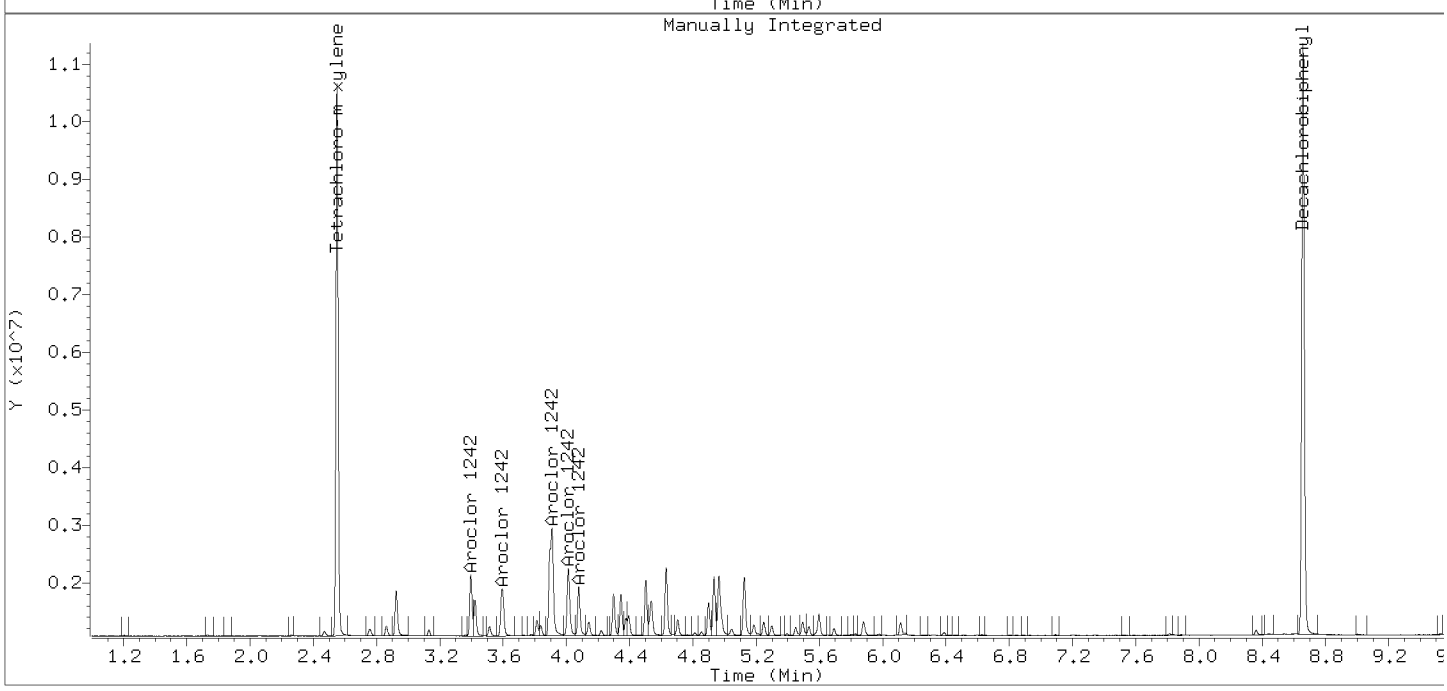
Column phase: ZB-1ms

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.

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.: 40158013

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681906

Date Analyzed: 05/07/2018 21:14

Lab File ID: 050718.B\050718031.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.203	12461	11000	0.883	0.05		
1.576	13884	10142	0.730	0.06		
1.731	23383	21564	0.922	0.10		
2.550	9251838	9365012	1.012	42.72	$ 2 Tetrachloro-m-xylene	
2.858	21077	18797	0.892	0.09		
2.928	23578	17427	0.739	0.10		
2.990	11632	8318	0.715	0.05		
4.132	38210	35506	0.929	0.17		
4.319	17446	15451	0.886	0.08		
5.427	11569	13890	1.201	0.05		
5.465	15288	12830	0.839	0.07		
6.277	13077	10588	0.810	0.06		
7.816	43520	32154	0.739	0.20		
7.885	23206	20312	0.875	0.10		
8.361	107370	91475	0.852	0.49		
8.442	10506	10807	1.029	0.04		
8.657	11994045	10471977	0.873	55.46	$ 12 Decachlorobiphenyl	
9.525	24500	17606	0.719	0.11		
	21656590	20184856		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.549	2.549	0.000	9251837	0.07682	38			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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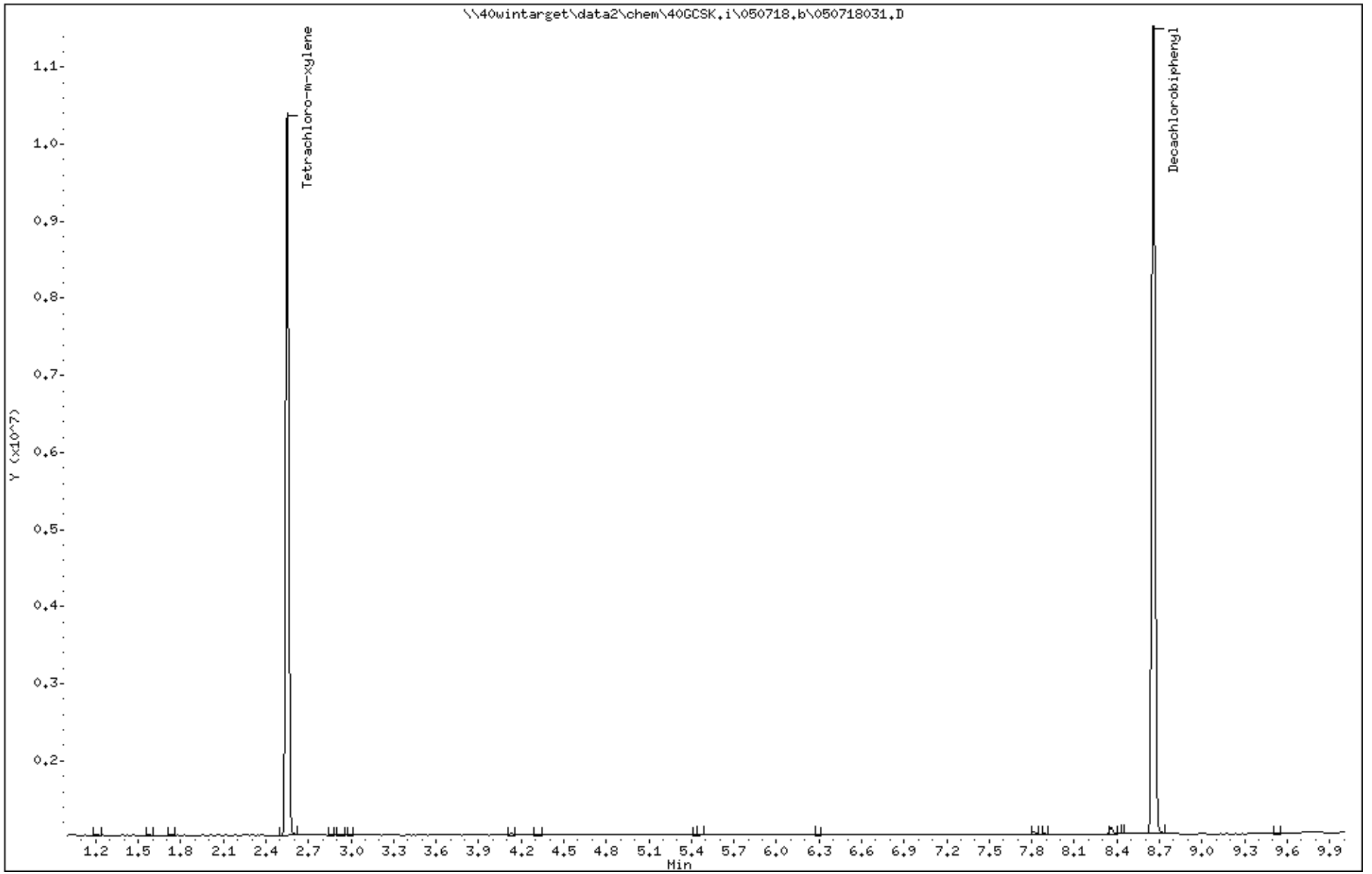
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	8.657	-0.001	11994044	0.09005	45			

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Date : 07-MAY-2018 21:14
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1681906,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681906

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9251837	9251837	
Decachlorobiphenyl	11994044	11994044	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158013

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681907

Date Analyzed: 05/07/2018 21:30

Lab File ID: 050718.B\050718032.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	240	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	25368	23610	0.931	0.05		
1.574	10386	9610	0.925	0.02		
1.731	24406	21766	0.892	0.05		
1.855	13737	12928	0.941	0.02		
2.471	105106	83696	0.796	0.21		
2.549	9629482	9864810	1.024	20.13	$ 2 Tetrachloro-m-xylene	
2.757	153768	124743	0.811	0.32		
2.860	199876	184186	0.922	0.41		
2.922	895722	821428	0.917	1.87		
3.086	12203	6660	0.546	0.02		
3.130	112811	106366	0.943	0.23		
3.358	20508	17002	0.829	0.04		
3.395	1165874	1093070	0.938	2.43	3 Aroclor 1242	BA
3.422	702899	638339	0.908	1.46		
3.514	196070	167215	0.853	0.40		
3.594	1166527	853293	0.731	2.43	3 Aroclor 1242	BA
3.727	19698	13558	0.688	0.04		
3.777	33202	30372	0.915	0.06		
3.812	304577	294027	0.965	0.63		
3.838	209445	185026	0.883	0.43		
3.908	3505353	1969681	0.562	7.32	3 Aroclor 1242	BA
4.011	1506656	1219210	0.809	3.14	3 Aroclor 1242	BA
4.077	993714	914463	0.920	2.07	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.142	297630	242775	0.816	0.62	
4.221	116094	96855	0.834	0.24	
4.297	827693	751100	0.907	1.73	
4.344	771142	737648	0.957	1.61	
4.376	314724	325309	1.034	0.65	
4.393	391968	351168	0.896	0.81	
4.454	30106	19901	0.661	0.06	
4.501	1068195	1000210	0.936	2.23	
4.537	851858	618169	0.726	1.78	
4.630	1387365	1211297	0.873	2.90	
4.702	317118	284653	0.898	0.66	
4.763	23385	17706	0.757	0.04	
4.812	70950	56251	0.793	0.14	
4.851	75097	69788	0.929	0.15	
4.897	648169	619505	0.956	1.35	
4.932	1167078	1082617	0.928	2.43	
4.964	1490424	1099302	0.738	3.11	
5.042	164210	122215	0.744	0.34	
5.123	1237360	1128069	0.912	2.58	
5.184	245858	190370	0.774	0.51	
5.247	284098	247069	0.870	0.59	
5.297	209842	183595	0.875	0.43	
5.396	45366	40427	0.891	0.09	
5.427	18891	22875	1.211	0.03	
5.449	188125	156821	0.834	0.39	
5.493	295888	256750	0.868	0.61	
5.531	189217	164210	0.868	0.39	
5.595	497924	383721	0.771	1.04	
5.691	146446	134446	0.918	0.30	
5.766	20780	16246	0.782	0.04	
5.802	26523	24058	0.907	0.05	
5.826	38375	33811	0.881	0.08	
5.876	323983	278531	0.860	0.67	
5.974	49770	31045	0.624	0.10	
6.111	325933	255144	0.783	0.68	
6.256	19007	15623	0.822	0.03	
6.325	10187	9391	0.922	0.02	
6.385	64636	57067	0.883	0.13	
6.422	10016	10357	1.034	0.02	
6.624	28672	20106	0.701	0.05	
6.804	15288	13444	0.879	0.03	
6.888	19409	14274	0.735	0.04	
7.089	21608	20406	0.944	0.04	
7.196	12780	10083	0.789	0.02	
7.813	24811	28299	1.141	0.05	
7.888	28804	18722	0.650	0.06	
8.360	106815	90409	0.846	0.22	
8.443	19206	13965	0.727	0.04	
8.605	13452	8574	0.637	0.02	
8.657	12211206	10694130	0.876	25.89	$ 12 Decachlorobiphenyl
8.998	29210	19473	0.667	0.06	
9.524	36061	23341	0.647	0.07	
	47836145	41976380		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	9629482	0.07995	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1165874	0.48169	240	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1166526	0.47396	240	0.00- 20.00	100.06	BA
3.907	3.909	-0.002	3505352	0.48313	240	0.00- 20.00	300.66	BA
4.011	4.011	0.000	1506656	0.48349	240	0.00- 20.00	129.23	BA
4.077	4.078	-0.001	993713	0.47471	240	0.00- 20.00	85.23	BA
Average of Peak Concentrations =					240			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	8.657	-0.001	12211206	0.09168	46	

QC Flag Legend

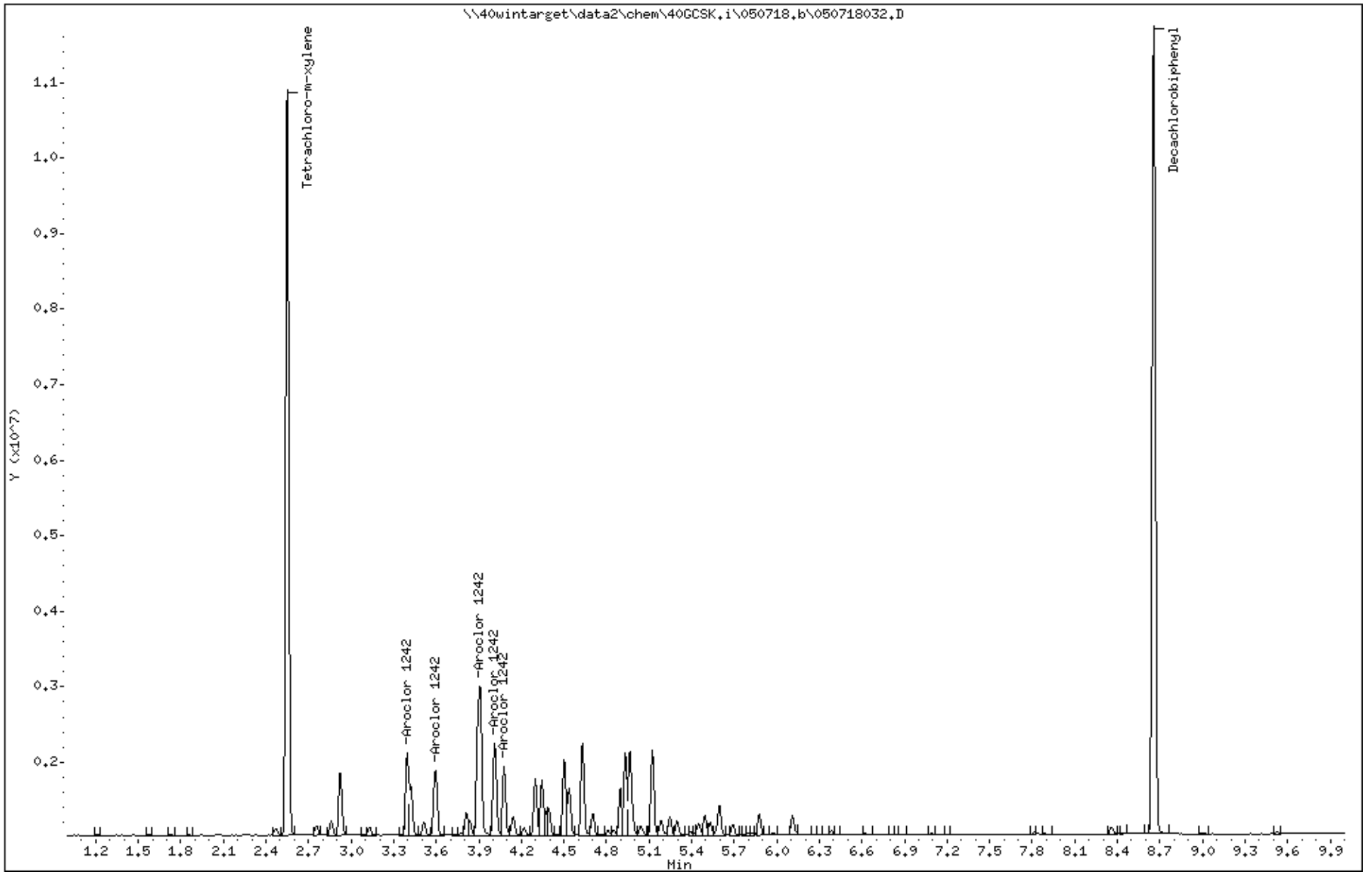
M - Compound response manually integrated.

Review Codes Legend

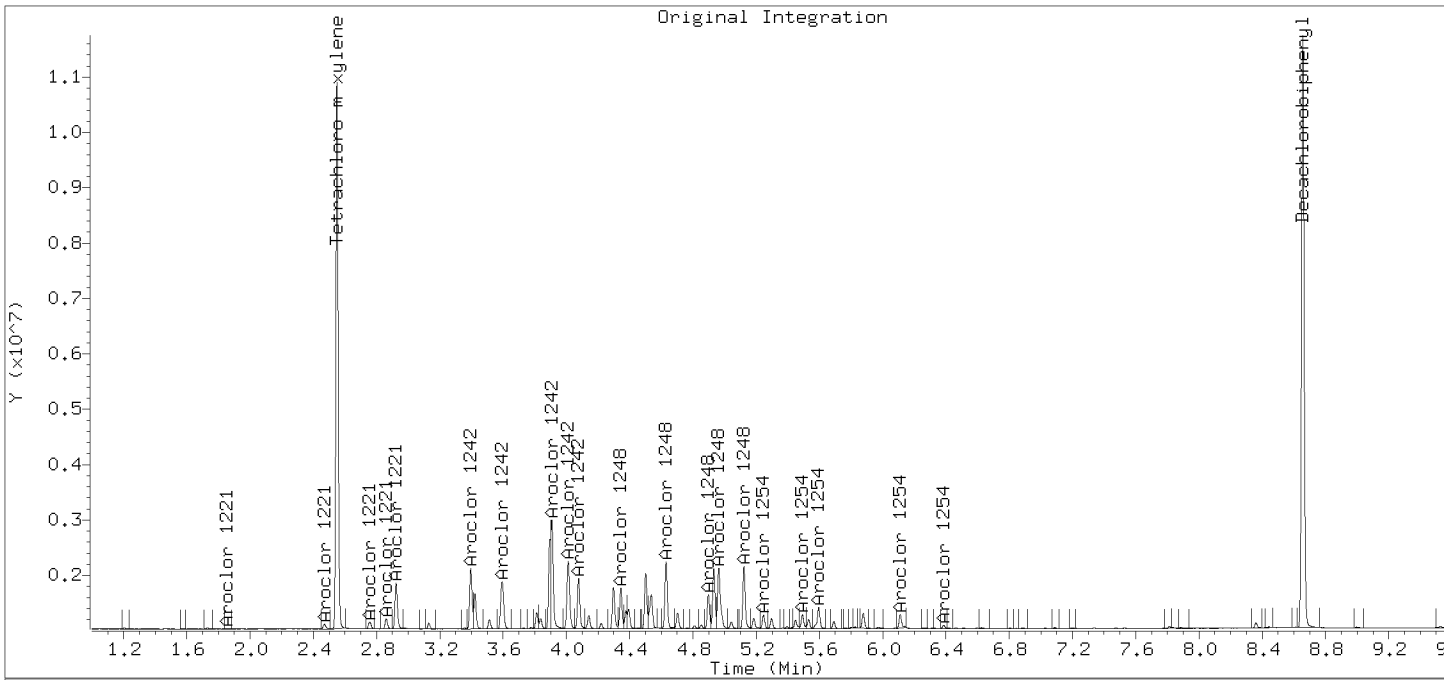
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

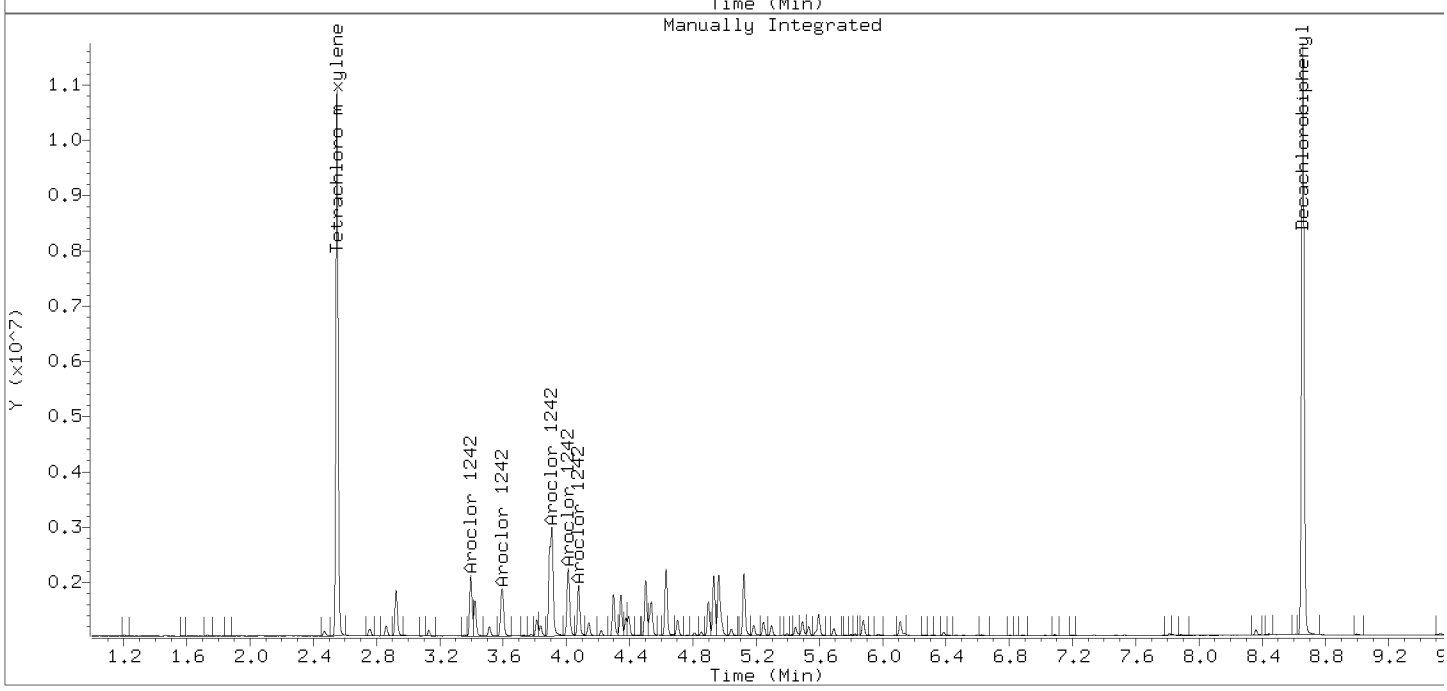
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Date : 07-MAY-2018 21:30
Client ID: MBLCS
Sample Info: 1681907,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681907





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	

Aroclor 1232	895721	0	
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9629482	9629482	
Decachlorobiphenyl	12211206	12211206	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158013

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682672

Date Analyzed: 05/08/2018 03:50

Lab File ID: 050718.B\050718056.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Lab Smp Id: 1682672 Client Smp ID: MB
Inj Date : 08-MAY-2018 03:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682672,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 56 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	11241	10134	0.902	0.06		
1.581	11665	8596	0.737	0.06		
1.732	21723	19798	0.911	0.11		
2.550	7968939	8165260	1.025	43.03	$ 2 Tetrachloro-m-xylene	
2.857	12291	14612	1.189	0.06		
2.929	23630	15283	0.647	0.12		
4.133	21065	18470	0.877	0.11		
5.465	19491	14798	0.759	0.10		
6.274	13866	8724	0.629	0.07		
7.815	39467	29206	0.740	0.21		
7.885	25223	22569	0.895	0.13		
8.361	94775	82158	0.867	0.51		
8.439	10282	9448	0.919	0.05		
8.657	10143407	8722378	0.860	54.86	$ 12 Decachlorobiphenyl	
9.000	44382	27830	0.627	0.23		
9.529	53748	34663	0.645	0.29		
	18515197	17203927		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Lab Smp Id: 1682672 Client Smp ID: MB
Inj Date : 08-MAY-2018 03:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682672,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 56 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.549	2.549	0.000	7968939	0.06616	33			

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3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

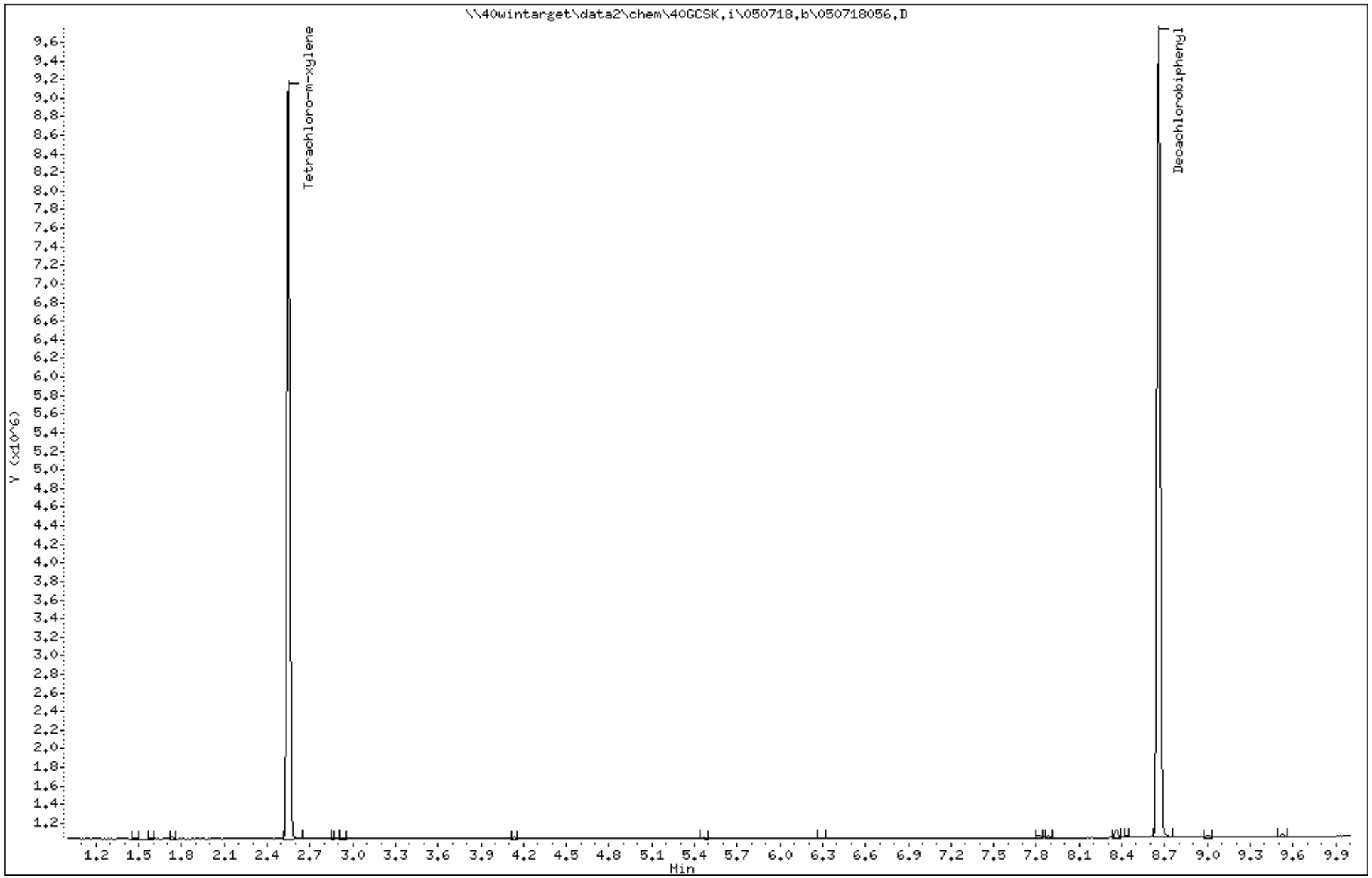
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	10143407	0.07616		38		

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718056.D
Date : 08-MAY-2018 03:50
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1682672,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718056.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 03:50 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682672

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	7968939	7968939	
Decachlorobiphenyl	10143407	10143407	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40158013

Date Extracted: 05/02/2018 09:20

Lab Sample ID: 1682673

Date Analyzed: 05/08/2018 04:06

Lab File ID: 050718.B\050718057.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	229	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Lab Smp Id: 1682673 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 04:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682673,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	15456	15357	0.994	0.03		
2.469	98965	80937	0.818	0.21		
2.550	9132073	9350217	1.024	20.04	$ 2 Tetrachloro-m-xylene	
2.757	151780	119584	0.788	0.33		
2.861	185129	174524	0.943	0.40		
2.923	845475	783752	0.927	1.85		
3.131	108707	101344	0.932	0.23		
3.357	19278	14904	0.773	0.04		
3.396	1108887	1047038	0.944	2.43	3 Aroclor 1242	BA
3.422	664487	602871	0.907	1.45		
3.514	183401	160910	0.877	0.40		
3.594	1107925	803512	0.725	2.43	3 Aroclor 1242	BA
3.726	23817	12754	0.535	0.05		
3.777	29449	30087	1.022	0.06		
3.813	290043	281745	0.971	0.63		
3.838	197088	179949	0.913	0.43		
3.909	3349691	1868131	0.558	7.35	3 Aroclor 1242	BA
4.012	1438103	1173930	0.816	3.15	3 Aroclor 1242	BA
4.077	951530	863017	0.907	2.08	3 Aroclor 1242	BA
4.142	265317	240360	0.906	0.58		
4.220	108673	91827	0.845	0.23		
4.297	778182	728033	0.936	1.70		
4.345	735673	692955	0.942	1.61		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.376	297298	308812	1.039	0.65	
4.394	390002	341330	0.875	0.85	
4.458	24416	19026	0.779	0.05	
4.502	1009012	961617	0.953	2.21	
4.537	842917	595742	0.707	1.84	
4.631	1333772	1165106	0.874	2.92	
4.703	307672	269798	0.877	0.67	
4.763	24247	17388	0.717	0.05	
4.811	68174	54853	0.805	0.14	
4.854	72119	65605	0.910	0.15	
4.898	615387	583749	0.949	1.35	
4.933	1115660	1044369	0.936	2.44	
4.965	1436890	1030945	0.717	3.15	
5.043	158737	119148	0.751	0.34	
5.123	1177305	1056181	0.897	2.58	
5.184	245382	183034	0.746	0.53	
5.247	274468	243197	0.886	0.60	
5.298	204739	174642	0.853	0.44	
5.368	18386	15817	0.860	0.04	
5.394	43521	38690	0.889	0.09	
5.450	180018	147119	0.817	0.39	
5.493	287305	243343	0.847	0.63	
5.533	180896	160788	0.889	0.39	
5.597	481976	362389	0.752	1.05	
5.691	141378	126057	0.892	0.31	
5.759	19760	14396	0.729	0.04	
5.799	25918	23719	0.915	0.05	
5.825	51039	31522	0.618	0.11	
5.878	324754	265906	0.819	0.71	
5.975	39981	31553	0.789	0.08	
6.079	10824	11720	1.083	0.02	
6.111	272571	237723	0.872	0.59	
6.141	47362	42532	0.898	0.10	
6.252	25554	17391	0.681	0.05	
6.385	66774	58798	0.881	0.14	
6.419	11464	10911	0.952	0.02	
6.596	10458	12109	1.158	0.02	
6.622	25921	19558	0.755	0.05	
6.808	11825	9922	0.839	0.02	
6.842	11094	7625	0.687	0.02	
6.889	13819	13141	0.951	0.03	
7.032	14650	12404	0.847	0.03	
7.091	15811	16566	1.048	0.03	
7.338	9974	9244	0.927	0.02	
7.473	10034	6611	0.659	0.02	
7.813	41653	33858	0.813	0.09	
7.886	29434	22071	0.750	0.06	
8.138	11335	12196	1.076	0.02	
8.359	101936	86698	0.851	0.22	
8.436	13851	12253	0.885	0.03	
8.657	11548062	9956552	0.862	25.70	$ 12 Decachlorobiphenyl
9.001	29894	22287	0.746	0.06	
9.527	46616	30205	0.648	0.10	
	45563173	39775954		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Lab Smp Id: 1682673 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 04:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1682673,
Misc Info : 17763,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	9132072	0.07582	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.396	3.396	0.000	1108887	0.45815	230	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1107924	0.45015	220	0.00- 20.00	99.91	BA
3.909	3.909	0.000	3349691	0.46167	230	0.00- 20.00	302.08	BA
4.011	4.011	0.000	1438102	0.46149	230	0.00- 20.00	129.69	BA
4.077	4.078	-0.001	951529	0.45456	230	0.00- 20.00	85.81	BA
Average of Peak Concentrations =					230			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	11548061	0.08670	43	

QC Flag Legend

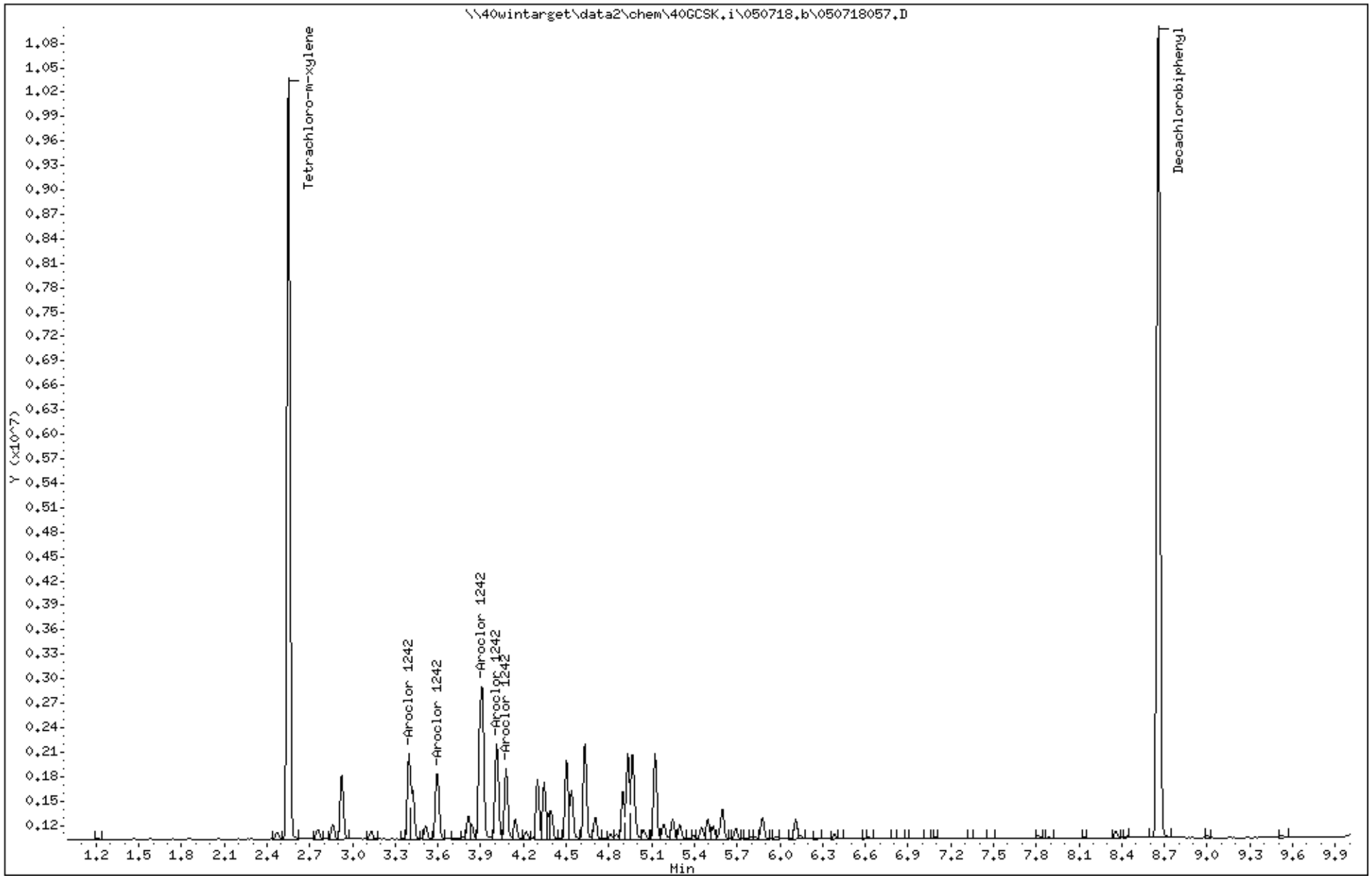
M - Compound response manually integrated.

Review Codes Legend

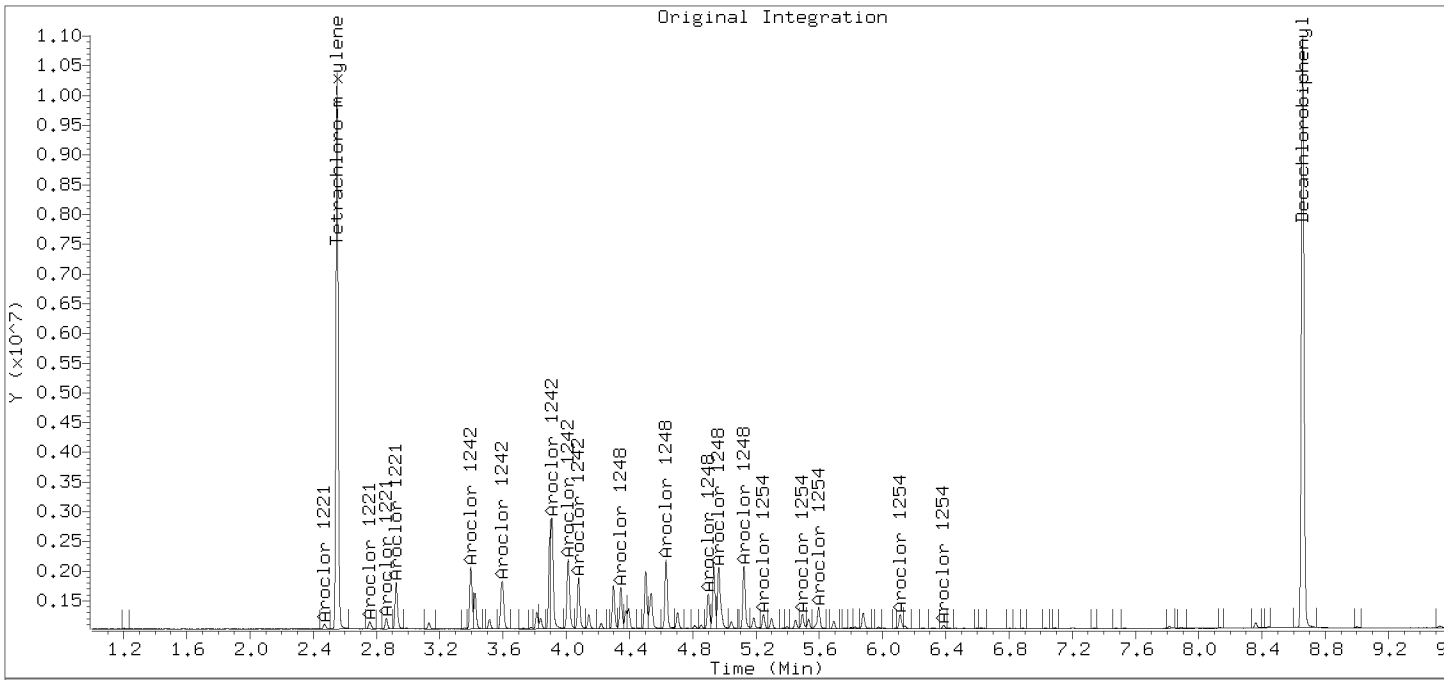
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

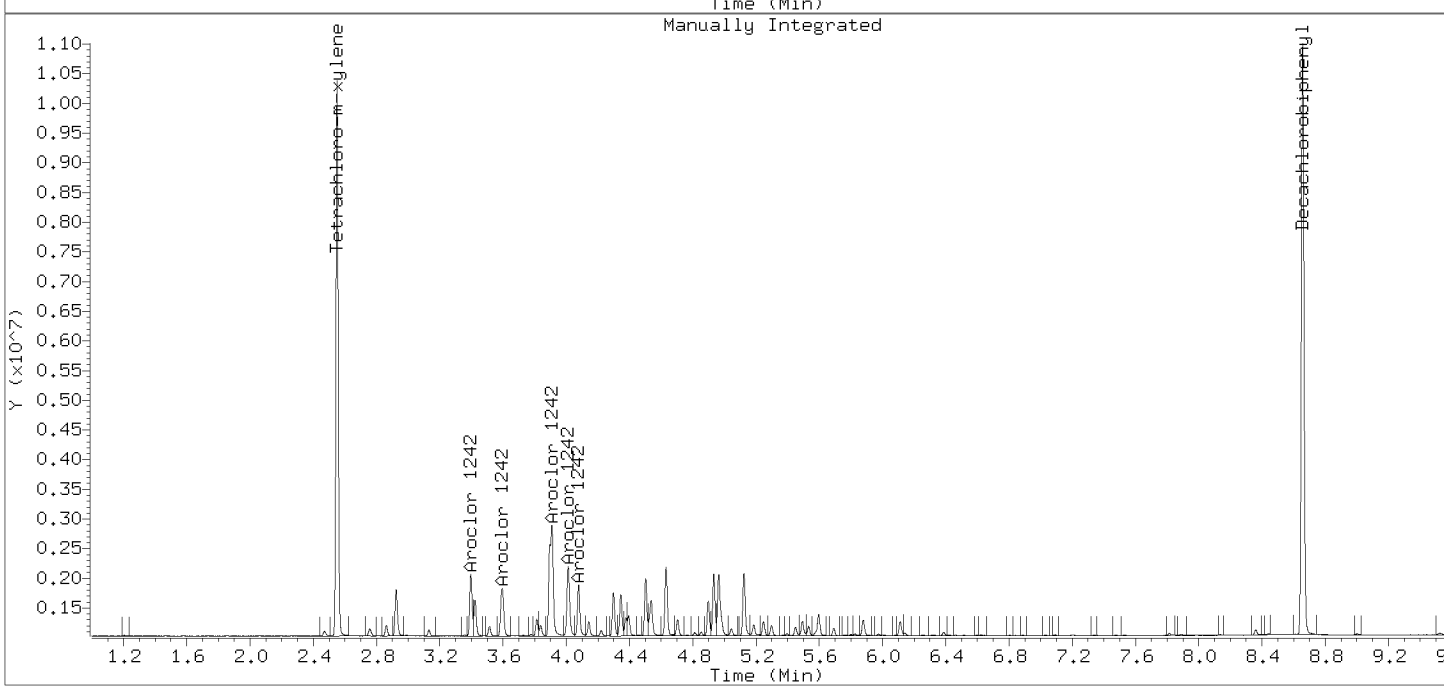
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718057.D
Date : 08-MAY-2018 04:06
Client ID: MBLCS
Sample Info: 1682673,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718057.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 04:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1682673





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1102222	0	
Aroclor 1016	1102222	0	
Aroclor 1016	1102222	0	
Aroclor 1016	1102222	0	
Aroclor 1016	1102222	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	845475	0	
Aroclor 1232	845475	0	
Aroclor 1232	845475	0	
Aroclor 1232	845475	0	

Aroclor 1232	845475	0	
Aroclor 1242	1102222	1108887	BA
Aroclor 1242	1102222	1108887	BA
Aroclor 1242	1102222	1108887	BA
Aroclor 1242	1102222	1108887	BA
Aroclor 1242	1102222	1108887	BA
Aroclor 1248	730202	0	
Aroclor 1248	730202	0	
Aroclor 1248	730202	0	
Aroclor 1248	730202	0	
Aroclor 1248	730202	0	
Aroclor 1254	261765	0	
Aroclor 1254	261765	0	
Aroclor 1254	261765	0	
Aroclor 1254	261765	0	
Aroclor 1254	261765	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9132072	9132072	
Decachlorobiphenyl	11548061	11548061	

==========

Prep Log Report

Batch Information: OEXT 286769 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	04/24/2018 07:41:00:500
Spiked By	ETB	Spiked By Date/Time	04/24/2018 07:41:03:682	Witnessed By	AMC	Witnessed By Date/Time	04/24/2018 07:41:03:682
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194588	Hexane	192551	Sodium Sulfate	194085	Florisil	186910
3620B Date/Initials	04/25/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	04/25/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/27/2018 07:35	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	**1677643**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1677644**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157940001**	10.0188	5	3		193230 (.25)	
8082A TNYP	PS	**40157940002**	9.9797	5	3		193230 (.25)	
8082A TNYP	PS	**40157940003**	10.0286	5	3		193230 (.25)	
8082A TNYP	PS	**40157940004**	8.0409	5	3		193230 (.25)	
8082A TNYP	PS	**40157940005**	9.9876	5	3		193230 (.25)	
8082A TNYP	PS	**40157940006**	9.9653	5	3		193230 (.25)	
8082A TNYP	PS	**40157940007**	9.7076	5	3		193230 (.25)	
8082A TNYP	PS	**40157940008**	7.2184	5	3		193230 (.25)	
8082A TNYP	PS	**40157940009**	7.2222	5	3		193230 (.25)	
8082A TNYP	PS	**40157940010**	9.9632	5	3		193230 (.25)	
8082A TNYP	PS	**40157940011**	5.5479	5	3		193230 (.25)	
8082A TNYP	PS	**40157940012**	9.9742	5	3		193230 (.25)	
8082A TNYP	PS	**40157940013**	9.0096	5	3		193230 (.25)	
8082A TNYP	PS	**40157940014**	10.0106	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	**40157940016**	9.9908	5	3		193230 (.25)	
8082A TNYP	PS	**40157940017**	10.0261	5	3		193230 (.25)	
8082A TNYP	PS	**40157940018**	10.0128	5	3		193230 (.25)	
8082A TNYP	PS	**40157940019**	10.0081	5	3		193230 (.25)	
8082A TNYP	PS	**40157940020**	9.9998	5	3		193230 (.25)	
8082A TNYP	RQS	**40158013010**	5.5162	5	3		193230 (.25)	
8082A TNYP	MS	**1677645**	8.1647	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1677646**	8.8754	5	3		193230 (.25)	

Standard Notes:

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

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.**

Prep Log Report

Batch Information: OEXT 287454 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	05/01/2018 07:23:08:558
Spiked By	ETB	Spiked By Date/Time	05/01/2018 07:23:11:212	Witnessed By	AMC	Witnessed By Date/Time	05/01/2018 07:23:13:940
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	195058	Hexane	192551	Sodium Sulfate	194786	Florisil	186910
3620B Date/Initials	05/02/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	05/02/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/11/2018 07:55	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1681906**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1681907**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157948001**	9.9685	5	3		193230 (.25)	
8082A TNYP	PS	**40157948002**	10.0255	5	3		193230 (.25)	
8082A TNYP	PS	**40157948007**	9.9868	5	3		193230 (.25)	
8082A TNYP	MS	**1681908**	5.4335	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1681909**	8.7067	5	3		193230 (.25)	
8082A TNYP	PS	**40157948012**	10.0342	5	3		193230 (.25)	
8082A TNYP	PS	**40158013011**	10.0286	5	3		193230 (.25)	
8082A TNYP	PS	**40158013012**	9.9824	5	3		193230 (.25)	
8082A TNYP	PS	**40158017003**	10.0244	5	3		193230 (.25)	
8082A TNYP	PS	**40158017004**	10.0023	5	3		193230 (.25)	
8082A TNYP	PS	**40158017005**	10.0013	5	3		193230 (.25)	
8082A TNYP	PS	**40158017006**	9.9932	5	3		193230 (.25)	
8082A TNYP	DUP	**1681910**	9.996	5	3		193230 (.25)	
8082A TNYP	PS	**40158017007**	10.0085	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40158017008**	10.0276	5	3		193230 (.25)	
8082A TNYP	PS	**40158017009**	10.0324	5	3		193230 (.25)	
8082A TNYP	PS	**40158017010**	9.9712	5	3		193230 (.25)	
8082A TNYP	PS	**40158029001**	9.9914	5	3		193230 (.25)	
8082A TNYP	PS	**40158029005**	9.9689	5	3		193230 (.25)	

Standard Notes:

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

Prep Log Report

Batch Information: OEXT 287596 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	05/02/2018 09:20:54:284
Spiked By	ETB	Spiked By Date/Time	05/02/2018 09:21:08:362	Witnessed By	AMC	Witnessed By Date/Time	05/02/2018 09:21:08:362
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	195322	Hexane	192551	Sodium Sulfate	194786	Florisil	186910
3620B Date/Initials	05/03/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	05/03/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/16/2018 11:05	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1682672**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1682673**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157948003**	9.9892	5	3		193230 (.25)	
8082A TNYP	PS	**40157948004**	9.9903	5	3		193230 (.25)	
8082A TNYP	PS	**40157948005**	10.0174	5	3		193230 (.25)	
8082A TNYP	PS	**40157948010**	3.0399	5	3		193230 (.25)	
8082A TNYP	DUP	**1682674**	3.1553	5	3		193230 (.25)	
8082A TNYP	PS	**40157948013**	10.0361	5	3		193230 (.25)	
8082A TNYP	PS	**40158013006**	7.8655	5	3		193230 (.25)	
8082A TNYP	PS	**40158013007**	9.9717	5	3		193230 (.25)	
8082A TNYP	PS	**40158013008**	9.9779	5	3		193230 (.25)	
8082A TNYP	PS	**40158013009**	9.9617	5	3		193230 (.25)	
8082A TNYP	PS	**40158029006**	10.007	5	3		193230 (.25)	
8082A TNYP	PS	**40158029007**	10.0174	5	3		193230 (.25)	
8082A TNYP	PS	**40158029008**	9.9635	5	3		193230 (.25)	
8082A TNYP	PS	**40158029009**	10.005	5	3		193230 (.25)	

Prep Log Report

40158013

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	RQS	**40158029010**	7.2759	5	3		193230 (.25)	
8082A TNYP	MS	**1682675**	6.9581	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1682677**	6.4488	5	3		193230 (.25)	
8082A TNYP	PS	**40158029011**	9.9867	5	3		193230 (.25)	

Standard Notes:

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

```
   Sequence Name: C:\msdchem\1\sequence\042518.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\042518\
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  1677643MB
      Datafile         --------
      Method           SCREEN2014
 4) Sample          4  1677644LCS
      Datafile         --------
      Method           SCREEN2014
 5) RearSamp        5  40157940-001 x3
      Datafile         --------
      Method           SCREEN2014
 6) Sample          6  40157940-002 x100
      Datafile         --------
      Method           SCREEN2014
 7) RearSamp        7  40157940-003 x100
      Datafile         --------
      Method           SCREEN2014
 8) Sample          8  40157940-004 x50
      Datafile         --------
      Method           SCREEN2014
 9) RearSamp        9  40157940-005 x100
      Datafile         --------
      Method           SCREEN2014
10) Sample         10  40157940-006 x3
      Datafile         --------
      Method           SCREEN2014
11) RearSamp       11  40157940-007 x2
      Datafile         --------
      Method           SCREEN2014
12) Sample         12  40157940-008 x20
      Datafile         --------
      Method           SCREEN2014
13) RearSamp       13  40157940-009 x15
      Datafile         --------
      Method           SCREEN2014
14) Sample         14  40157940-010 x10
      Datafile         --------
      Method           SCREEN2014
15) RearSamp       15  40157940-011 x10
      Datafile         --------
      Method           SCREEN2014
16) Sample         16  40157940-012 x30
      Datafile         --------
      Method           SCREEN2014
17) RearSamp       17  40157940-013 x50
      Datafile         --------
      Method           SCREEN2014
18) Sample         18  40157940-014 x50
      Datafile         --------
      Method           SCREEN2014
19) RearSamp       19  40157940-016 x20
      Datafile         --------

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Read and Understood By

Bryan Meyer — Signed — 4/26/18 — Date

[illegible] — Signed — 4/26/18 — Date

	Method		SCREEN2014
20)	Sample	20	40157940-017 ×20
	Datafile		--------
	Method		SCREEN2014
21)	RearSamp	21	40157940-018 ×5
	Datafile		--------
	Method		SCREEN2014
22)	Sample	22	40157940-019 ×30
	Datafile		--------
	Method		SCREEN2014
23)	RearSamp	23	40157940-020 × 4
	Datafile		--------
	Method		SCREEN2014
24)	Sample	24	40158013-010P ×10
	Datafile		-------- BLM 4/25/18
	Method		SCREEN2014
25)	RearSamp	25	1677645MS ~~×15~~ ×10
	Datafile		--------
	Method		SCREEN2014
26)	Sample	26	1677646DUP ×10
	Datafile		--------
	Method		SCREEN2014

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Continued on Page —

Read and Understood By

Signed 4/26/18 Date

Signed 4/26/18 Date

```
   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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Read and Understood By

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

	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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BLM 5/7/18

Continued on Page —

Read and Understood By

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

```
   Sequence Name: C:\msdchem\1\sequence\050218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\050218\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1681906MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1681907LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157948-001 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40157948-002 x3
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40157948-007 x5
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  1681908MS x5
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  1681909DUP x5
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157948-012 x20
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40158013-011 x20
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40158013-012 x15
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158017-003 x5
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158017-004 x4
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158017-005 x30
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158017-006 x20
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1681910DUP x20
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158017-007 x15
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158017-008 x20
     Datafile           --------

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Read and Understood By

Beyn Meyl — Signed — 5/10/18 — Date

Jim O'Conn — Signed — 5-10-18 — Date

```
      Method                SCREEN2014
20)   Sample        20      40158017-009 x20
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40158017-010 x20
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40158029-001 x15
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40158029-005 x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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BLM 5/10/18

Continued on Page —

Read and Understood By

Signed 5/10/18 Date Signed 5-10-18 Date

```
    Sequence Name: C:\msdchem\1\sequence\050318.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\050318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1683033MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1683034LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1683035MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1683036DUP
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40168356-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40168356-002
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40168356-003
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40168356-004
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40168356-005
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40168356-006
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40168356-007
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40168356-008
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40168356-009
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40168356-010
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40168356-011
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40168356-012
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40168356-013
     Datafile          --------

   Last Modified: Thu May 03 10:03:08 2018                Page:  1
```

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Read and Understood By

Bryan Meyll — Signed — 5/10/18 — Date

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

```
      Method                SCREEN2014
20) Sample          20  40168356-014
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40168356-015
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  HEXANE
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  40168317-001
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  40168317-002
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  40168317-003
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  40168317-004
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  40168318-001
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  40168318-002
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29  1682672MB
      Datafile              --------
      Method                SCREEN2014
30) Sample          30  1682673LCS
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31  40157948-003 x4
      Datafile              --------
      Method                SCREEN2014
32) Sample          32  40157948-004 x2
      Datafile              --------
      Method                SCREEN2014
33) RearSamp        33  40157948-005 x5
      Datafile              --------
      Method                SCREEN2014
34) Sample          34  40157948-010 x5
      Datafile              --------
      Method                SCREEN2014
35) RearSamp        35  1682674DUP x5
      Datafile              --------
      Method                SCREEN2014
36) Sample          36  40157948-013 x5
      Datafile              --------
      Method                SCREEN2014
37) RearSamp        37  40158013-006 x10
      Datafile              --------
      Method                SCREEN2014
38) Sample          38  40158013-007 x10
      Datafile              --------
      Method                SCREEN2014
39) RearSamp        39  40158013-008 x10
      Datafile              --------
      Method                SCREEN2014
40) Sample          40  40158013-009 x10
      Datafile              --------
      Method                SCREEN2014
41) RearSamp        41  40158029-006 x2
      Datafile              --------
      Method                SCREEN2014
42) Sample          42  40158029-007 x2
      Datafile              --------
      Method                SCREEN2014
43) RearSamp        43  40158029-008 x3
      Datafile              --------
```

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Read and Understood By

Signed 5/10/18 Date Signed 5-10-18 Date

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

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40158029-009 ×3	SCREEN2014	
45)	RearSamp	45	40158029-010 ×2	SCREEN2014	
46)	Sample	46	1682675MS ×2	SCREEN2014	
47)	RearSamp	47	1682677DUP ×2	SCREEN2014	
48)	Sample	48	40158029-011 ×2	SCREEN2014	

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BLM 5/10/18

Continued on Page —

Read and Understood By

Bryan Meyer 5/10/18 Tim O'Connor 5-10-18
Signed Date Signed Date

```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
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          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 ok
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 ok
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 ok
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 ok
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 ok
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 ok
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 ok
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 ok
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 ok
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 ok
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 ok
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 ok
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 ok
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 ok
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 ok
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 ok
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 ok
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 ok
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 ok
      Datafile            030618088
      Method              GEBIOTA2017

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Signed: [signature] Date: 3/7/18

```
   Sequence Name: C:\msdchem\1\sequence\042518.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\042518\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run        Sequence Barcode Options
    (X) Full Method               (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only         ( ) On Mismatch, Don't Inject
                                  ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          042518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          042518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          042518003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 ok
     Datafile          042518004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 ok
     Datafile          042518005
     Method            GEBIOTA2017
 6) Sample          6  40158010001 x6,,17723,BIOTA
     Datafile          042518006
     Method            GEBIOTA2017
 7) Sample          7  1677643,,17730,BIOTA
     Datafile          042518007
     Method            GEBIOTA2017
 8) Sample          8  1677644,,17730,BIOTA
     Datafile          042518008
     Method            GEBIOTA2017
 9) Sample          9  40157940001 x3,,17730,BIOTA
     Datafile          042518009
     Method            GEBIOTA2017
10) Sample         10  40157940002 x100,,17730,BIOTA
     Datafile          042518010
     Method            GEBIOTA2017
11) Sample         11  40157940003 x100,,17730,BIOTA
     Datafile          042518011
     Method            GEBIOTA2017
12) Sample         12  40157940004 x50,,17730,BIOTA
     Datafile          042518012
     Method            GEBIOTA2017
13) Sample         13  40157940005 x100,,17730,BIOTA RS
     Datafile          042518013
     Method            GEBIOTA2017
14) Sample         14  40157940006 x3,,17730,BIOTA
     Datafile          042518014
     Method            GEBIOTA2017
15) Sample         15  40157940007 x2,,17730,BIOTA
     Datafile          042518015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR125 ok
     Datafile          042518016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR125 ok
     Datafile          042518017
     Method            GEBIOTA2017
18) Sample         18  40157940008 x20,,17730,BIOTA
     Datafile          042518018
     Method            GEBIOTA2017
19) Sample         19  40157940009 x15,,17730,BIOTA
     Datafile          042518019

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```
      Method                GEBIOTA2017
20) Sample          20  40157940010 x10,,17730,BIOTA
      Datafile              042518020
      Method                GEBIOTA2017
21) Sample          21  40157940011 x10,,17730,BIOTA
      Datafile              042518021
      Method                GEBIOTA2017
22) Sample          22  40157940012 x30,,17730,BIOTA
      Datafile              042518022
      Method                GEBIOTA2017
23) Sample          23  40157940013 x50,,17730,BIOTA
      Datafile              042518023
      Method                GEBIOTA2017
24) Sample          24  40157940014 x50,,17730,BIOTA
      Datafile              042518024
      Method                GEBIOTA2017
25) Sample          25  40157940016 x20,,17730,BIOTA
      Datafile              042518025
      Method                GEBIOTA2017
26) Sample          26  40157940017 x20,,17730,BIOTA
      Datafile              042518026
      Method                GEBIOTA2017
27) Sample          27  40157940018 x5,,17730,BIOTA
      Datafile              042518027
      Method                GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 OK
      Datafile              042518028
      Method                GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 OK
      Datafile              042518029
      Method                GEBIOTA2017
30) Sample          30  40157940019 x30,,17730,BIOTA
      Datafile              042518030
      Method                GEBIOTA2017
31) Sample          31  40157940020 x4,,17730,BIOTA
      Datafile              042518031
      Method                GEBIOTA2017
32) Sample          32  40158013010 x10,,17730,BIOTA
      Datafile              042518032
      Method                GEBIOTA2017
33) Sample          33  1677645 x10,,17730,BIOTA
      Datafile              042518033
      Method                GEBIOTA2017
34) Sample          34  1677646 x10,,17730,BIOTA
      Datafile              042518034
      Method                GEBIOTA2017
35) Sample          35  1221-CCV,185538:1,17498,AR122 OK
      Datafile              042518035
      Method                GEBIOTA2017
36) Sample          36  1221-CCV,185538:1,17498,AR122 OK
      Datafile              042518036
      Method                GEBIOTA2017
```

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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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```
      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

```
   Sequence Name: C:\msdchem\1\sequence\050718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\050718\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run        Sequence Barcode Options
    (X) Full Method               (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only         ( ) On Mismatch, Don't Inject
                                  ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  PRIME
     Datafile          050718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          050718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          050718003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17762,AR124 OK
     Datafile          050718004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17762,AR124 OK
     Datafile          050718005
     Method            GEBIOTA2017
 6) Sample          6  1681428,,17750,BIOTA
     Datafile          050718006
     Method            GEBIOTA2017
 7) Sample          7  1681429,,17750,BIOTA
     Datafile          050718007
     Method            GEBIOTA2017
 8) Sample          8  40157940015 x20,,17750,BIOTA
     Datafile          050718008
     Method            GEBIOTA2017
 9) Sample          9  1681430 x20,,17750,BIOTA
     Datafile          050718009
     Method            GEBIOTA2017
10) Sample         10  1681911 x20,,17750,BIOTA
     Datafile          050718010
     Method            GEBIOTA2017
11) Sample         11  40157948008 x2,,17750,BIOTA
     Datafile          050718011
     Method            GEBIOTA2017
12) Sample         12  40157948009 x2,,17750,BIOTA
     Datafile          050718012
     Method            GEBIOTA2017
13) Sample         13  40157948011 x10,,17750,BIOTA
     Datafile          050718013
     Method            GEBIOTA2017
14) Sample         14  1681432 x10,,17750,BIOTA
     Datafile          050718014
     Method            GEBIOTA2017
15) Sample         15  40157948014 x5,,17750,BIOTA
     Datafile          050718015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17762,AR125 OK
     Datafile          050718016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17762,AR125 OK
     Datafile          050718017
     Method            GEBIOTA2017
18) Sample         18  40158017001 x3,,17750,BIOTA DS
     Datafile          050718018
     Method            GEBIOTA2017
19) Sample         19  40158017002 x3,,17750,BIOTA
     Datafile          050718019

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Signed: [signature] Date: 5-10-18

```
      Method              GEBIOTA2017
20) Sample        20  40158017016,,17750,BIOTA
      Datafile            050718020
      Method              GEBIOTA2017
21) Sample        21  40158017017,,17750,BIOTA
      Datafile            050718021
      Method              GEBIOTA2017
22) Sample        22  40158017018,,17750,BIOTA
      Datafile            050718022
      Method              GEBIOTA2017
23) Sample        23  40158017019,,17750,BIOTA
      Datafile            050718023
      Method              GEBIOTA2017
24) Sample        24  40158017020,,17750,BIOTA
      Datafile            050718024
      Method              GEBIOTA2017
25) Sample        25  1681433,,17750,BIOTA
      Datafile            050718025
      Method              GEBIOTA2017
26) Sample        26  40158029002 x4,,17750,BIOTA
      Datafile            050718026
      Method              GEBIOTA2017
27) Sample        27  40158029004 x5,,17750,BIOTA
      Datafile            050718027
      Method              GEBIOTA2017
28) Sample        28  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718028
      Method              GEBIOTA2017
29) Sample        29  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718029
      Method              GEBIOTA2017
30) Sample        30  1681434 x5,,17750,BIOTA
      Datafile            050718030
      Method              GEBIOTA2017
31) Sample        31  1681906,,17754,BIOTA
      Datafile            050718031
      Method              GEBIOTA2017
32) Sample        32  1681907,,17754,BIOTA
      Datafile            050718032
      Method              GEBIOTA2017
33) Sample        33  40157948001 x5,,17754,BIOTA
      Datafile            050718033
      Method              GEBIOTA2017
34) Sample        34  40157948002 x3,,17754,BIOTA
      Datafile            050718034
      Method              GEBIOTA2017
35) Sample        35  40157948007 x5,,17754,BIOTA
      Datafile            050718035
      Method              GEBIOTA2017
36) Sample        36  1681908 x5,,17754,BIOTA
      Datafile            050718036
      Method              GEBIOTA2017
37) Sample        37  1681909 x5,,17754,BIOTA
      Datafile            050718037
      Method              GEBIOTA2017
38) Sample        38  40157948012 x20,,17754,BIOTA
      Datafile            050718038
      Method              GEBIOTA2017
39) Sample        39  40158013011 x20,,17754,BIOTA
      Datafile            050718039
      Method              GEBIOTA2017
40) Sample        40  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718040
      Method              GEBIOTA2017
41) Sample        41  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718041
      Method              GEBIOTA2017
42) Sample        42  40158013012 x15,,17754,BIOTA
      Datafile            050718042
      Method              GEBIOTA2017
43) Sample        43  40158017003 x5,,17754,BIOTA
      Datafile            050718043

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Beg Meagl 5/10/18 Signed Date

Jim O'Gorman 5-10-18 Signed Date

Sequence Name: C:\msdchem\1\sequence\050718.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40158017004	x4,,17754	BIOTA
	Datafile		050718044		
	Method		GEBIOTA2017		
45)	Sample	45	40158017005	x30,,17754	BIOTA
	Datafile		050718045		
	Method		GEBIOTA2017		
46)	Sample	46	40158017006	x20,,17754	BIOTA
	Datafile		050718046		
	Method		GEBIOTA2017		
47)	Sample	47	1681910	x20,,17754	BIOTA
	Datafile		050718047		
	Method		GEBIOTA2017		
48)	Sample	48	40158017007	x15,,17754	BIOTA
	Datafile		050718048		
	Method		GEBIOTA2017		
49)	Sample	49	40158017008	x20,,17754	BIOTA
	Datafile		050718049		
	Method		GEBIOTA2017		
50)	Sample	50	40158017009	x20,,17754	BIOTA
	Datafile		050718050		
	Method		GEBIOTA2017		
51)	Sample	51	40158017010	x20,,17754	BIOTA
	Datafile		050718051		
	Method		GEBIOTA2017		
52)	Sample	52	1232-CCV,185539:1	17762	AR123 OK
	Datafile		050718052		
	Method		GEBIOTA2017		
53)	Sample	53	1232-CCV,185539:1	17762	AR123 OK
	Datafile		050718053		
	Method		GEBIOTA2017		
54)	Sample	54	40158029001	x15,,17754	BIOTA
	Datafile		050718054		
	Method		GEBIOTA2017		
55)	Sample	55	40158029005	x2,,17754	BIOTA
	Datafile		050718055		
	Method		GEBIOTA2017		
56)	Sample	56	1682672,,17763		BIOTA
	Datafile		050718056		
	Method		GEBIOTA2017		
57)	Sample	57	1682673,,17763		BIOTA
	Datafile		050718057		
	Method		GEBIOTA2017		
58)	Sample	58	40157948003	x4,,17763	BIOTA
	Datafile		050718058		
	Method		GEBIOTA2017		
59)	Sample	59	40157948004	x2,,17763	BIOTA
	Datafile		050718059		
	Method		GEBIOTA2017		
60)	Sample	60	40157948005	x5,,17763	BIOTA RS
	Datafile		050718060		
	Method		GEBIOTA2017		
61)	Sample	61	40157948010	x5,,17763	BIOTA
	Datafile		050718061		
	Method		GEBIOTA2017		
62)	Sample	62	1682674	x5,,17763	BIOTA
	Datafile		050718062		
	Method		GEBIOTA2017		
63)	Sample	63	40157948013	x5,,17763	BIOTA RS
	Datafile		050718063		
	Method		GEBIOTA2017		
64)	Sample	64	1242-CCV,185544:1	17762	AR124 OK
	Datafile		050718064		
	Method		GEBIOTA2017		
65)	Sample	65	1242-CCV,185544:1	17762	AR124 OK
	Datafile		050718065		
	Method		GEBIOTA2017		
66)	Sample	66	40158013006	x10,,17763	BIOTA
	Datafile		050718066		

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Read and Understood By

Signed: Bryan Meyer Date: 5/10/18

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

```
      Method          GEBIOTA2017
67) Sample      67  40158013007 x10,,17763,BIOTA
      Datafile        050718067
      Method          GEBIOTA2017
68) Sample      68  40158013008 x10,,17763,BIOTA
      Datafile        050718068
      Method          GEBIOTA2017
69) Sample      69  40158013009 x10,,17763,BIOTA
      Datafile        050718069
      Method          GEBIOTA2017
70) Sample      70  40158029006 x2,,17763,BIOTA
      Datafile        050718070
      Method          GEBIOTA2017
71) Sample      71  40158029007 x2,,17763,BIOTA
      Datafile        050718071
      Method          GEBIOTA2017
72) Sample      72  40158029008 x3,,17763,BIOTA
      Datafile        050718072
      Method          GEBIOTA2017
73) Sample      73  40158029009 x3,,17763,BIOTA
      Datafile        050718073
      Method          GEBIOTA2017
74) Sample      74  40158029010 x2,,17763,BIOTA
      Datafile        050718074
      Method          GEBIOTA2017
75) Sample      75  1682675 x2,,17763,BIOTA
      Datafile        050718075
      Method          GEBIOTA2017
76) Sample      76  1248-CCV,185549:1,17762,AR124 OK
      Datafile        050718076
      Method          GEBIOTA2017
77) Sample      77  1248-CCV,185549:1,17762,AR124 OK
      Datafile        050718077
      Method          GEBIOTA2017
78) Sample      78  1682677 x2,,17763,BIOTA
      Datafile        050718078
      Method          GEBIOTA2017
79) Sample      79  40158029011 x2,,17763,BIOTA
      Datafile        050718079
      Method          GEBIOTA2017
80) Sample      80  1683452,,17773,BIOTA
      Datafile        050718080
      Method          GEBIOTA2017
81) Sample      81  1683453,,17773,BIOTA
      Datafile        050718081
      Method          GEBIOTA2017
82) Sample      82  40157948006 x5,,17773,BIOTA
      Datafile        050718082
      Method          GEBIOTA2017
83) Sample      83  1683454 x5,,17773,BIOTA RS
      Datafile        050718083
      Method          GEBIOTA2017
84) Sample      84  40158017011,,17773,BIOTA
      Datafile        050718084
      Method          GEBIOTA2017
85) Sample      85  1683455,,17773,BIOTA
      Datafile        050718085
      Method          GEBIOTA2017
86) Sample      86  1683456,,17773,BIOTA
      Datafile        050718086
      Method          GEBIOTA2017
87) Sample      87  40158017012,,17773,BIOTA
      Datafile        050718087
      Method          GEBIOTA2017
88) Sample      88  1254-CCV,185554:1,17762,AR125 OK
      Datafile        050718088
      Method          GEBIOTA2017
89) Sample      89  1254-CCV,185554:1,17762,AR125 OK
      Datafile        050718089
      Method          GEBIOTA2017
90) Sample      90  40158017013,,17773,BIOTA
      Datafile        050718090

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

BLM 5/10/18

Continued on Page 90

Read and Understood By

Bryan Meyl — Signed — 5/10/18 — Date

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

```
      Method                GEBIOTA2017
91) Sample          91  40158017014,,17773,BIOTA
      Datafile              050718091
      Method                GEBIOTA2017
92) Sample          92  40158017015,,17773,BIOTA RS
      Datafile              050718092
      Method                GEBIOTA2017
93) Sample          93  40158029003 x5,,17773,BIOTA
      Datafile              050718093
      Method                GEBIOTA2017
94) Sample          94  40158029012 x2,,17773,BIOTA
      Datafile              050718094
      Method                GEBIOTA2017
95) Sample          95  1683457 x2,,17773,BIOTA
      Datafile              050718095
      Method                GEBIOTA2017
96) Sample          96  40158029013 x2,,17773,BIOTA
      Datafile              050718096
      Method                GEBIOTA2017
```

Sequence Name: C:\msdchem\1\sequence\050718.s

BLM 5/10/18

```
Line Type          Vial  DataFile  Method    Sample Name
-----------------------------------------------------------------
97) Sample          97  40158029014 x2,,17773,BIOTA
      Datafile              050718097
      Method                GEBIOTA2017
98) Sample          98  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718098
      Method                GEBIOTA2017
99) Sample          99  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718099
      Method                GEBIOTA2017
```

GCSV Batch 17750 Screened 40GCSI 05/01/18
GCSV Batch 17754 Screened 40GCSI 5/2/18
GCSV Batch 17763 Screened 40GCSI 5/3/18
GCSV Batch 17773 Screened 40GCSI 5/4/18

BLM 5/10/18

Continued on Page —

Read and Understood By

Bryan Maynard — Signed — 5/10/18 — Date
Jim O'Connor — Signed — 5-10-18 — Date

Standard Log Report

Standards Log Information for Standard #195322

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	05/02/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	11/02/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #195322

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

Composed of Information for Standard #195322

Composed of Standard Seq	Volume	Units
195250	2000	mL
193873	2000	mL

Standard Log Report

Standards Log Information for Standard #195250

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405891
Create Date:	05/01/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000194330	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 05/01/18

Compound Name and Concentration for Standard #195250

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #195058

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/30/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #195058

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

Composed of Information for Standard #195058

Composed of Standard Seq	Volume	Units
193872	2000	mL
192551	2000	mL

Standard Log Report

Standards Log Information for Standard #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 #194786

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/25/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/25/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/25/18

Compound Name and Concentration for Standard #194786

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #194642

STOCK STANDARD

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

Notes:

Sodium Sulfate SVOA baked 4/24/18

Compound Name and Concentration for Standard #194642

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #194588

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/23/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/21/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #194588

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

Composed of Information for Standard #194588

Composed of Standard Seq	Volume	Units
193869	2000	mL
192551	2000	mL

Standard Log Report

Standards Log Information for Standard #194085

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/17/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/17/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/17/18
from drum 192182

Compound Name and Concentration for Standard #194085

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #193873

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	04/12/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #193873

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #193872

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	04/12/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #193872

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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		

Standard Log Report

Standards Log Information for Standard #193869

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 #193869

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188141

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL5

Notes:

1221 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #188141

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	1 ug/mL	PCB-1221 (Aroclor 1221)-1	1 ug/mL
PCB-1221 (Aroclor 1221)-2	1 ug/mL	PCB-1221 (Aroclor 1221)-3	1 ug/mL
PCB-1221 (Aroclor 1221)-4	1 ug/mL	PCB-1232 (Aroclor 1232)-5	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #188141

Composed of Standard Seq	Volume	Units
188129	1500	uL
185526	1000	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #188140

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL4

Notes:

1221 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #188140

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.8 ug/mL	PCB-1221 (Aroclor 1221)-1	.8 ug/mL
PCB-1221 (Aroclor 1221)-2	.8 ug/mL	PCB-1221 (Aroclor 1221)-3	.8 ug/mL
PCB-1221 (Aroclor 1221)-4	.8 ug/mL	PCB-1232 (Aroclor 1232)-5	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #188140

Composed of Standard Seq	Volume	Units
188129	1000	uL
185526	800	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #188139

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL2

Notes:

1221 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #188139

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.2 ug/mL	PCB-1221 (Aroclor 1221)-1	.2 ug/mL
PCB-1221 (Aroclor 1221)-2	.2 ug/mL	PCB-1221 (Aroclor 1221)-3	.2 ug/mL
PCB-1221 (Aroclor 1221)-4	.2 ug/mL	PCB-1232 (Aroclor 1232)-5	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #188139

Composed of Standard Seq	Volume	Units
188129	200	uL
185526	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #188138

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL1

Notes:

NY 1221 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188138

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.1 ug/mL	PCB-1221 (Aroclor 1221)-1	.1 ug/mL
PCB-1221 (Aroclor 1221)-2	.1 ug/mL	PCB-1221 (Aroclor 1221)-3	.1 ug/mL
PCB-1221 (Aroclor 1221)-4	.1 ug/mL	PCB-1232 (Aroclor 1232)-5	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188138

Composed of Standard Seq	Volume	Units
188129	100	uL
185526	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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		

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

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		

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

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

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

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

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

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

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

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

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #172034

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

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

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

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

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

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

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

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

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

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

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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 --

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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
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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)

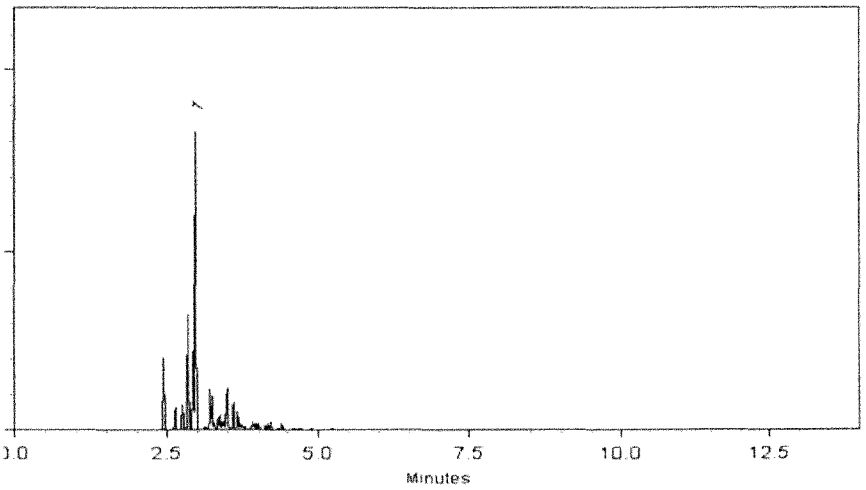
Carrier Gas:
helium-constant pressure 20 psi.

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

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

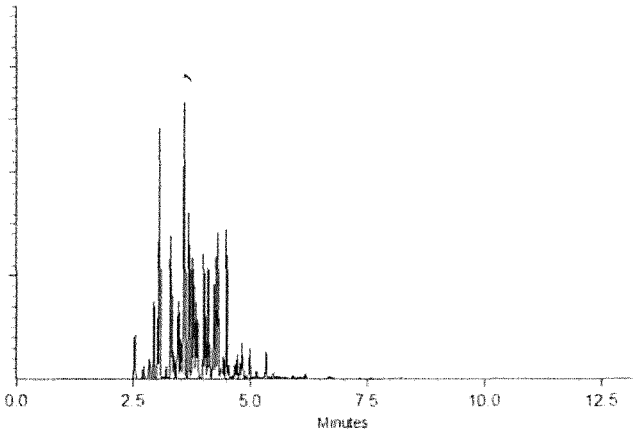
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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

110 Benner Circle
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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)

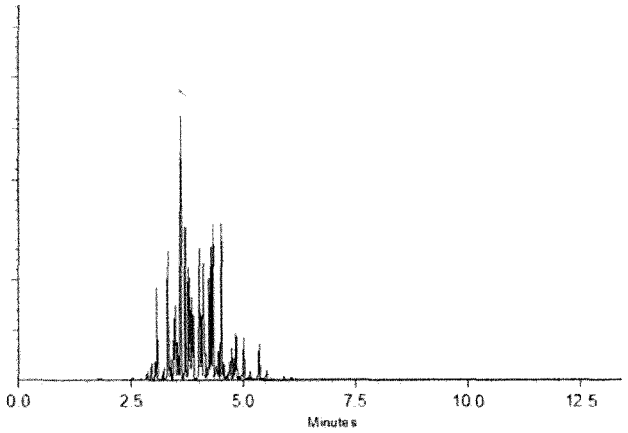
Carrier Gas:
helium-constant pressure 20 psi.

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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Registered Quality System
Certificate #FM 80397

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

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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. : 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)

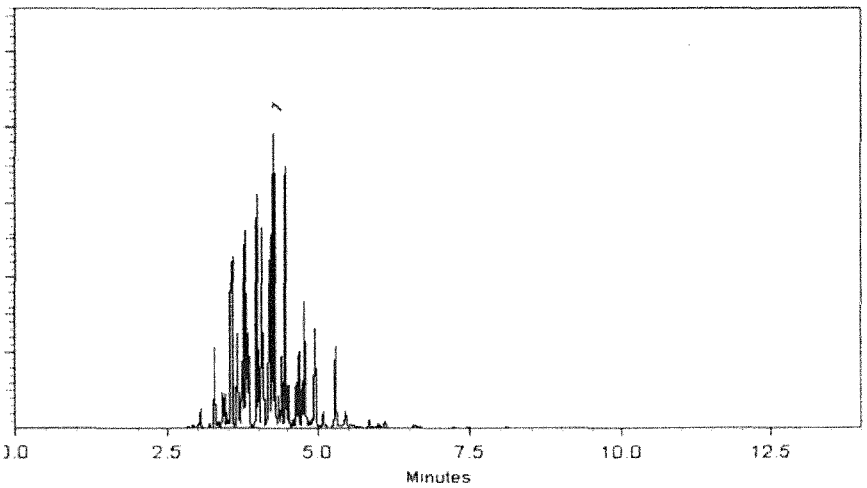
Carrier Gas:
helium-constant pressure 20 psi.

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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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)

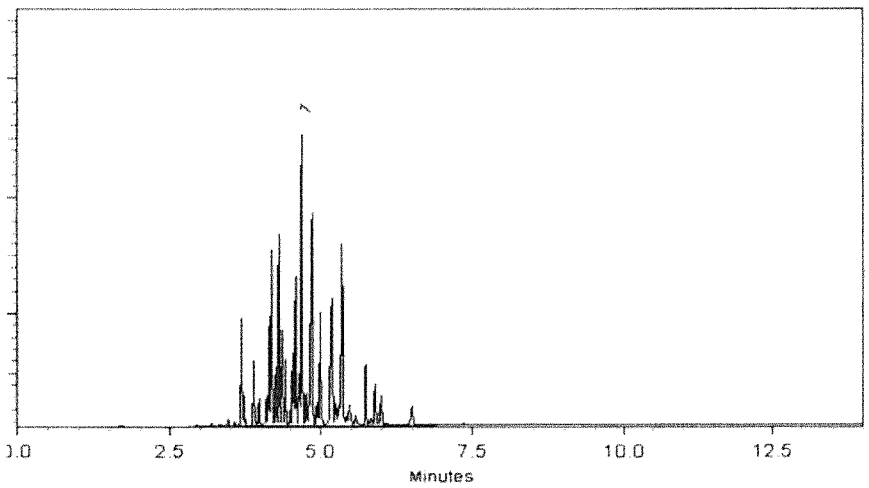
Carrier Gas:
helium-constant pressure 20 psi.

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

Manufactured under Restek's ISO 9001:2008
Registered Quality System
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. : 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)

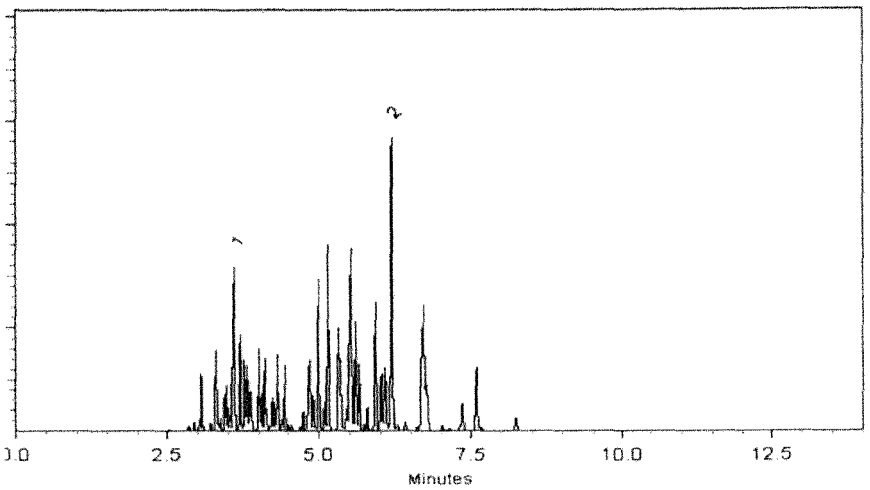
Carrier Gas:
helium-constant pressure 20 psi.

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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Registered Quality System
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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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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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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.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

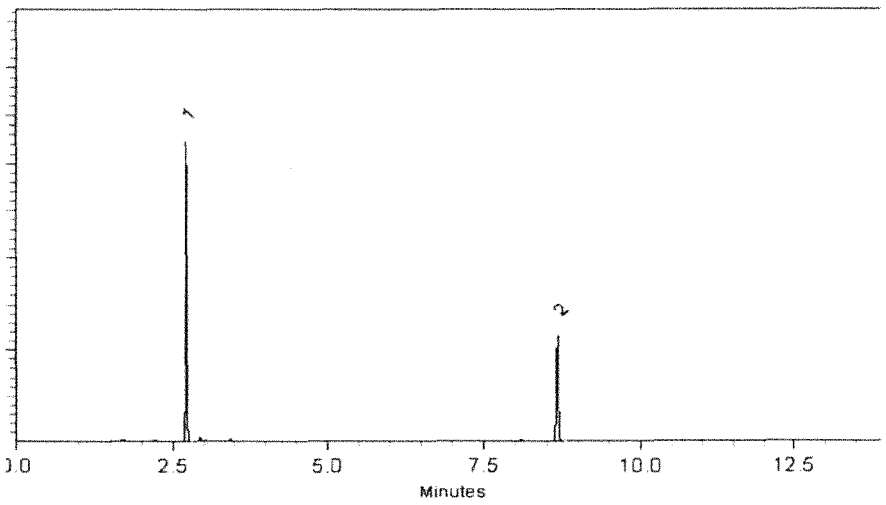
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Fax: (231) 728-8226
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Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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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 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
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

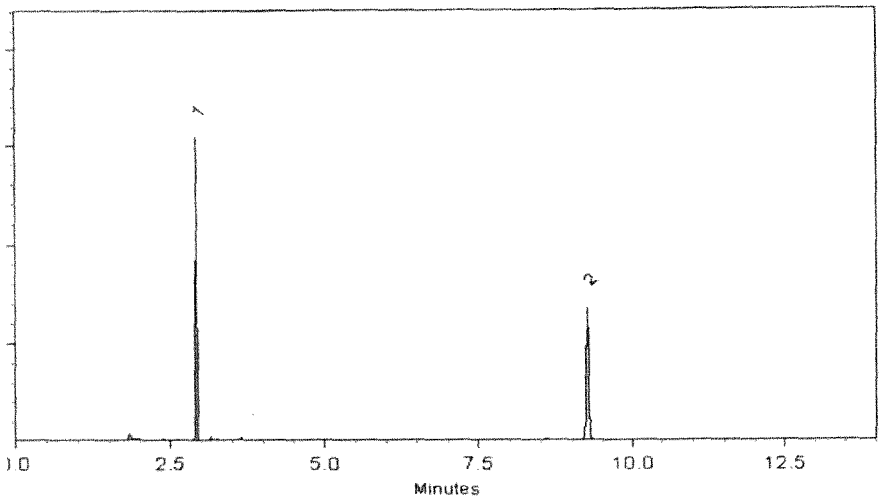
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

o2si smart solutions®

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

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

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

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

J.T.Baker | avantor

405891
REC.05/01/18 BY AMC
Exp. __/__/__ By __
Open __/__/__ By __

Material No.: 9262-8P
Batch No.: 0000194330
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22
Revision No: 1

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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.

SW3-170829-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.4		%	1	04/27/2018 14:15

SAMPLE NO.

SW3-170829-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	04/27/2018 14:16

SAMPLE NO.

SW3-170829-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.4		%	1	04/27/2018 14:16

SAMPLE NO.

SW3-170829-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013004 Percent Moisture:

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

SAMPLE NO.

SW3-170829-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/27/2018 14:16

SAMPLE NO.

SW2-170829-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.1		%	1	05/02/2018 10:15

SAMPLE NO.

SW2-170829-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	05/02/2018 10:15

SAMPLE NO.

SW2-170829-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.1		%	1	05/02/2018 10:15

SAMPLE NO.

SW2-170829-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	05/02/2018 10:15

SAMPLE NO.

SW2-170829-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.0		%	1	04/25/2018 08:52

SAMPLE NO.

ND3-170829-01-SPSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.6		%	1	05/01/2018 14:22

SAMPLE NO.

ND3-170829-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158013012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.3		%	1	05/01/2018 14:22

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 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	1678322	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 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

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1682357	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1682697	C
Lipid									0.050	

SAMPLE NO.

1678325DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	4.0	2.3	53*

* RPD outside QC Limits

SAMPLE NO.

1680588DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 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

SAMPLE NO.

1682360DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	4.7	4.7	1

SAMPLE NO.

1682361DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.7	1.5	11

SAMPLE NO.

1682699DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.7	3.7	0

SAMPLE NO.

1682701DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158013 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	5.6	5.5	2

Prep Log Report

Batch Information: OEXT 286925 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	05/03/2018 12:21				

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	**1678322**	Y	0.02000	04/25/2018 08:49:01		10	5	1	0.9293	0.9297	M	1677643
LIPID	BLANK	**1678323**	Y	0.01000	04/25/2018 08:49:10		10	5	1	0.9298	0.93	M	1677644
LIPID	PS	**40157940001**	Y	2.051	04/25/2018 08:49:20		10.0188	5	1	0.9293	0.9704	M	
LIPID	PS	**40157940002**	Y	3.612	04/25/2018 08:49:30		9.9797	5	1	0.9307	1.0028	M	
LIPID	PS	**40157940003**	Y	3.161	04/25/2018 08:49:43		10.0286	5	1	0.9304	0.9938	M	
LIPID	PS	**40157940004**	Y	2.220	04/25/2018 08:49:52		8.0409	5	1	0.9306	0.9663	M	
LIPID	PS	**40157940005**	Y	3.389	04/25/2018 08:50:03		9.9876	5	1	0.928	0.9957	M	
LIPID	PS	**40157940006**	Y	2.704	04/25/2018 08:50:17		9.9653	5	1	0.929	0.9829	M	
LIPID	PS	**40157940007**	Y	2.240	04/25/2018 08:50:28		9.7076	5	1	0.9285	0.972	M	
LIPID	PS	**40157940008**	Y	3.865	04/25/2018 08:50:39		7.2184	5	1	0.9292	0.985	M	
LIPID	PS	**40157940009**	Y	3.732	04/25/2018 08:50:49		7.2222	5	1	0.9253	0.9792	M	
LIPID	PS	**40157940010**	Y	2.961	04/25/2018 08:50:59		9.9632	5	1	0.9291	0.9881	M	
LIPID	PS	**40157940011**	Y	3.425	04/25/2018 08:51:13		5.5479	5	1	0.9293	0.9673	M	
LIPID	PS	**40157940012**	Y	3.584	04/25/2018 08:51:25		9.9742	5	1	0.9333	1.0048	M	
LIPID	PS	**40157940013**	Y	3.962	04/25/2018 08:51:37		9.0096	5	1	0.9284	0.9998	M	
LIPID	PS	**40157940014**	Y	3.097	04/25/2018 08:51:47		10.0106	5	1	0.9271	0.9891	M	
LIPID	PS	**40157940016**	Y	3.288	04/25/2018 08:52:01		9.9908	5	1	0.9315	0.9972	M	
LIPID	PS	**40157940017**	Y	4.578	04/25/2018 08:52:11		10.0261	5	1	0.9234	1.0152	M	
LIPID	PS	**40157940018**	Y	2.896	04/25/2018 08:52:21		10.0128	5	1	0.9269	0.9849	M	

Prep Log Report

40158013

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	**40157940019**	Y	3.717	04/25/2018 08:52:33		10.0081	5	1	0.9318	1.0062	M	
LIPID	PS	**40157940020**	Y	1.970	04/25/2018 08:52:44		9.9998	5	1	0.9308	0.9702	M	
LIPID	RQS	**40158013010**	Y	4.006	04/25/2018 08:52:54		5.5162	5	1	0.9208	0.965	M	
LIPID	DUP	**1678325**	Y	2.327	04/25/2018 08:53:15		8.8754	5	1	0.924	0.9653	M	1677646
LIPID	MS	**1683167**	Y	2.707	04/25/2018 08:53:15		8.1647	5	1	.9248	0.969	M	1677645

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

40158013

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

Prep Log Report

Batch Information: OEXT 287559 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/11/2018 07:57				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1682357**	Y	-0.01000	05/01/2018 14:21:10		10	5	1	0.9342	0.934	M	1681906
LIPID	BLANK	**1682358**	Y	0.01500	05/01/2018 14:21:21		10	5	1	0.9319	0.9322	M	1681907
LIPID	PS	**40157948001**	Y	2.102	05/01/2018 14:21:31		9.9685	5	1	0.93	0.9719	M	
LIPID	PS	**40157948002**	Y	1.706	05/01/2018 14:21:41		10.0255	5	1	0.9329	0.9671	M	
LIPID	PS	**40157948007**	Y	4.686	05/01/2018 14:21:50		9.9868	5	1	0.9329	1.0265	M	
LIPID	DUP	**1682360**	Y	4.715	05/01/2018 14:22:14		8.7067	5	1	0.9341	1.0162	M	1681909
LIPID	PS	**40157948012**	Y	4.545	05/01/2018 14:22:25		10.0342	5	1	0.9364	1.0276	M	
LIPID	PS	**40158013011**	Y	4.557	05/01/2018 14:22:34		10.0286	5	1	0.9355	1.0269	M	
LIPID	PS	**40158013012**	Y	4.287	05/01/2018 14:22:44		9.9824	5	1	0.937	1.0226	M	
LIPID	PS	**40158017003**	Y	2.589	05/01/2018 14:22:54		10.0244	5	1	0.9353	0.9872	M	
LIPID	PS	**40158017004**	Y	2.365	05/01/2018 14:23:05		10.0023	5	1	0.9328	0.9801	M	
LIPID	PS	**40158017005**	Y	4.964	05/01/2018 14:23:16		10.0013	5	1	0.9368	1.0361	M	
LIPID	PS	**40158017006**	Y	1.691	05/01/2018 14:23:25		9.9932	5	1	0.9355	0.9693	M	
LIPID	DUP	**1682361**	Y	1.516	05/01/2018 14:23:37		9.996	5	1	0.9357	0.966	M	1681910
LIPID	PS	**40158017007**	Y	4.456	05/01/2018 14:23:48		10.0085	5	1	0.9353	1.0245	M	
LIPID	PS	**40158017008**	Y	4.557	05/01/2018 14:24:00		10.0276	5	1	0.9356	1.027	M	
LIPID	PS	**40158017009**	Y	4.994	05/01/2018 14:24:10		10.0324	5	1	0.9354	1.0356	M	
LIPID	PS	**40158017010**	Y	4.844	05/01/2018 14:24:22		9.9712	5	1	0.9322	1.0288	M	
LIPID	PS	**40158029001**	Y	6.420	05/01/2018 14:24:34		9.9914	5	1	0.9324	1.0607	M	

Prep Log Report

40158013

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40158029005**	Y	1.986	05/01/2018 14:24:44		9.9689	5	1	0.9343	0.9739	M	
LIPID	MS	**1683590**	Y	4.574	05/01/2018 14:24:44		5.4335	5	1	.9348	0.9845	M	1681908

Prep Log Report

Batch Information: OEXT 287607 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	CAH	Reviewed By Date	05/16/2018 14:08				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1682697**	Y	0.05000	05/02/2018 10:13:52		10	5	1	0.9301	0.9311	M	1682672
LIPID	BLANK	**1682698**	Y	-0.01500	05/02/2018 10:14:02		10	5	1	0.9349	0.9346	M	1682673
LIPID	PS	**40157948003**	Y	4.965	05/02/2018 10:14:13		9.9892	5	1	0.9358	1.035	M	
LIPID	PS	**40157948004**	Y	5.636	05/02/2018 10:14:24		9.9903	5	1	0.9286	1.0412	M	
LIPID	PS	**40157948005**	Y	4.976	05/02/2018 10:14:34		10.0174	5	1	0.9384	1.0381	M	
LIPID	PS	**40157948010**	Y	3.734	05/02/2018 10:14:43		3.0399	5	1	0.9315	0.9542	M	
LIPID	DUP	**1682699**	Y	3.740	05/02/2018 10:14:54		3.1553	5	1	0.9351	0.9587	M	1682674
LIPID	PS	**40157948013**	Y	2.611	05/02/2018 10:15:05		10.0361	5	1	0.9372	0.9896	M	
LIPID	PS	**40158013006**	Y	2.098	05/02/2018 10:15:15		7.8655	5	1	0.9359	0.9689	M	
LIPID	PS	**40158013007**	Y	1.991	05/02/2018 10:15:24		9.9717	5	1	0.9335	0.9732	M	
LIPID	PS	**40158013008**	Y	2.075	05/02/2018 10:15:35		9.9779	5	1	0.9346	0.976	M	
LIPID	PS	**40158013009**	Y	2.454	05/02/2018 10:15:45		9.9617	5	1	0.9339	0.9828	M	
LIPID	PS	**40158029006**	Y	3.248	05/02/2018 10:15:58		10.007	5	1	0.9342	0.9992	M	
LIPID	PS	**40158029007**	Y	3.888	05/02/2018 10:16:10		10.0174	5	1	0.9322	1.0101	M	
LIPID	PS	**40158029008**	Y	5.335	05/02/2018 10:16:19		9.9635	5	1	0.9331	1.0394	M	
LIPID	PS	**40158029009**	Y	4.728	05/02/2018 10:16:30		10.005	5	1	0.934	1.0286	M	
LIPID	RQS	**40158029010**	Y	5.559	05/02/2018 10:16:41		7.2759	5	1	0.9382	1.0191	M	
LIPID	MS	**1682700**	Y	5.461	05/02/2018 10:16:50		6.9581	5	1	0.9348	1.0108	M	1682675
LIPID	DUP	**1682701**	Y	5.466	05/02/2018 10:17:05		6.4488	5	1	0.9344	1.0049	M	1682677

Prep Log Report

40158013

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40158029011**	Y	4.085	05/02/2018 10:17:15		9.9867	5	1	0.9303	1.0119	M	

Client Name: GE
Project #: 40158013
Sample Type: Fish
Date/Time Removed to Thaw: 04-17-18
Date/Time Prepped: 04-17-18
Prepped by: CWN + JL RRM
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	12.7	Y	N/A	N/A	Left / Both	N/A	4AG	1	Y	11.8	C	
2			Y	21.7				Left / Both				Y	18.7		
3			Y	11.6				Left / Both				Y	10.8		
4			Y	18.2				Left / Both				Y	17.0		
5			Y	10.5				Left / Both				Y	9.9		
6			Y	8.6				Left / Both				Y	8.2		
7			Y	16.5				Left / Both				Y	15.3		
8			Y	16.8				Left / Both				Y	15.4		
9			Y	20.9				Left / Both				Y	19.7		
10			Y	28.9				Left / Both				Y	26.4		
11			Y	29.4				Left / Both				Y	26.8		
12	X	X	Y	35.4	X	X	X	Left / Both	X	X	X	Y	33.4	X	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
				04-27-18				Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

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-7243-01DB
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

40158013
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