Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157488

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 43

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 45

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 49

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 53

Duplicate Summary (Form 3) . . . 57

Method Blank Association Summary (Form 4) . . . 62

Analytical Results with Raw Data (Form 1) . . . 66

Initial Calibration Summary (Form 6) . . . 201

Raw Data for Initial Calibration Standards . . . 208

Continuing Calibration Summary (Form 7) . . . 348

Raw Data for Continuing Calibration Standards . . . 364

Raw Data QC . . . 451

Preparation Logs Raw Data . . . 544

Instrument Run Log . . . 552

Standards Traceability . . . 575

Certificate of Analysis . . . 654

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 683

Blanks (Form 3-IN) . . . 698

Duplicates (Form 6-IN) . . . 702

Preparation Logs Raw Data . . . 707

Biota Prep Logs

Biota Prep Log . . . 714

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

May 04, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 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: 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.: 40157488

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.: 40157488

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157488001	**SW2-170614-01-YP-05**	Tissue	06/14/17 11:34	09/27/17 10:20
40157488002	**SW2-170614-01-YP-04**	Tissue	06/14/17 11:32	09/27/17 10:20
40157488003	**SW2-170614-01-YP-03**	Tissue	06/14/17 11:30	09/27/17 10:20
40157488004	**SW2-170614-01-YP-02**	Tissue	06/14/17 11:27	09/27/17 10:20
40157488005	**SW2-170614-01-YP-01**	Tissue	06/14/17 11:25	09/27/17 10:20
40157488006	**SW2-170614-01-SMB-01**	Tissue	06/14/17 11:49	09/27/17 10:20
40157488007	**SW2-170614-01-LMB-04**	Tissue	06/14/17 11:45	09/27/17 10:20
40157488008	**SW2-170614-01-LMB-03**	Tissue	06/14/17 11:42	09/27/17 10:20
40157488009	**SW2-170614-01-LMB-02**	Tissue	06/14/17 11:40	09/27/17 10:20
40157488010	**SW2-170614-01-LMB-01**	Tissue	06/14/17 11:38	09/27/17 10:20
40157488011	**SW2-170614-01-BB-05**	Tissue	06/14/17 12:07	09/27/17 10:20
40157488012	**SW2-170614-01-BB-04**	Tissue	06/14/17 12:03	09/27/17 10:20
40157488013	**SW2-170614-01-BB-03**	Tissue	06/14/17 12:00	09/27/17 10:20
40157488014	**SW2-170614-01-BB-02**	Tissue	06/14/17 11:56	09/27/17 10:20
40157488015	**SW2-170614-01-BB-01**	Tissue	06/14/17 11:52	09/27/17 10:20

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157488001	SW2-170614-01-YP-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488002	SW2-170614-01-YP-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488003	SW2-170614-01-YP-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488004	SW2-170614-01-YP-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488005	SW2-170614-01-YP-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488006	SW2-170614-01-SMB-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157488007	SW2-170614-01-LMB-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488008	SW2-170614-01-LMB-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488009	SW2-170614-01-LMB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488010	SW2-170614-01-LMB-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488011	SW2-170614-01-BB-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488012	SW2-170614-01-BB-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488013	SW2-170614-01-BB-03	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488014	**SW2-170614-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157488015	**SW2-170614-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

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

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

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

QC Batch: 284719

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157487017

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

- MS (Lab ID: 1666456)
  - PCB-1242 (Aroclor 1242)

QC Batch: 284965

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157489016

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

- MS (Lab ID: 1667972)
  - PCB-1242 (Aroclor 1242)

QC Batch: 285569

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157488006

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

- MS (Lab ID: 1671101)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 2018

QC Batch: 285569

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157488006

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

- PCB-1242 (Aroclor 1242)

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 04, 2018

General Information:
15 samples were analyzed for Pace Gender Typing. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-YP-05 **Lab ID: 40157488001** Collected: 06/14/17 11:34 Received: 09/27/17 10:20 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)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**28.7J**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**260**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**141**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**24.3J**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	11096-82-5	
PCB, Total	**454**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 00:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/29/18 07:15	03/31/18 00:46	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/29/18 07:15	03/31/18 00:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.53**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-YP-04 **Lab ID: 40157488002** Collected: 06/14/17 11:32 Received: 09/27/17 10:20 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)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**354**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**201**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**38.6J**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	11096-82-5	
PCB, Total	**593**	ug/kg	99.7	22.7	2	03/29/18 07:15	03/31/18 01:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		2	03/29/18 07:15	03/31/18 01:02	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	03/29/18 07:15	03/31/18 01:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-YP-03 **Lab ID: 40157488003** Collected: 06/14/17 11:30 Received: 09/27/17 10:20 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)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**55.6**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**214**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**113**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.8J**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	11096-82-5	
PCB, Total	**409**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 01:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/29/18 07:15	03/31/18 01:50	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/29/18 07:15	03/31/18 01:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.80**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-YP-02 **Lab ID: 40157488004** Collected: 06/14/17 11:27 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.1**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**531**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**297**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**57.0J**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	11096-82-5	
PCB, Total	**884**	ug/kg	150	34.1	3	03/29/18 07:15	03/31/18 02:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		3	03/29/18 07:15	03/31/18 02:06	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		3	03/29/18 07:15	03/31/18 02:06	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.92**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-YP-01 **Lab ID: 40157488005** Collected: 06/14/17 11:25 Received: 09/27/17 10:20 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)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**35.6J**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**218**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**147**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**54.9**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	11096-82-5	
PCB, Total	**456**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 02:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/29/18 07:15	03/31/18 02:21	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/29/18 07:15	03/31/18 02:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.65**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-SMB-01 **Lab ID: 40157488006** Collected: 06/14/17 11:49 Received: 09/27/17 10:20 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	04/10/18 07:13	04/11/18 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.2**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.2**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.2**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**1130**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**999**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**294**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	11096-82-5	
PCB, Total	**2420**	ug/kg	251	57.2	5	04/10/18 07:13	04/11/18 15:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		5	04/10/18 07:13	04/11/18 15:51	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		5	04/10/18 07:13	04/11/18 15:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:11		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		04/11/18 07:17		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-LMB-04 **Lab ID: 40157488007** Collected: 06/14/17 11:45 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**1110**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**1020**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**375**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	11096-82-5	
PCB, Total	**2500**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 20:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	67	%	60-140		5	03/30/18 07:22	04/02/18 20:45	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		5	03/30/18 07:22	04/02/18 20:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-LMB-03 **Lab ID: 40157488008** Collected: 06/14/17 11:42 Received: 09/27/17 10:20 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)	**<11.4**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**139**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**104**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**35.5J**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	11096-82-5	
PCB, Total	**279**	ug/kg	49.8	11.4	1	03/30/18 07:22	04/02/18 21:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	60-140		1	03/30/18 07:22	04/02/18 21:01	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/30/18 07:22	04/02/18 21:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-LMB-02 **Lab ID: 40157488009** Collected: 06/14/17 11:40 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.1**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**309**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**395**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**178**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	11096-82-5	
PCB, Total	**883**	ug/kg	149	34.1	3	03/30/18 07:22	04/02/18 21:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	70	%	60-140		3	03/30/18 07:22	04/02/18 21:17	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	03/30/18 07:22	04/02/18 21:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-LMB-01 **Lab ID: 40157488010** Collected: 06/14/17 11:38 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**552**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**432**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**141J**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	11096-82-5	
PCB, Total	**1120**	ug/kg	150	34.2	3	03/30/18 07:22	04/02/18 22:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		3	03/30/18 07:22	04/02/18 22:05	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		3	03/30/18 07:22	04/02/18 22:05	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.63**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-BB-05 **Lab ID: 40157488011** Collected: 06/14/17 12:07 Received: 09/27/17 10:20 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)	**<11.4**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**265**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**174**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**65.9**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	11096-82-5	
PCB, Total	**505**	ug/kg	50.1	11.4	1	04/03/18 07:20	04/05/18 15:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/03/18 07:20	04/05/18 15:43	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	04/03/18 07:20	04/05/18 15:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%	0.030	0.030	1		04/05/18 06:36		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-BB-04 **Lab ID: 40157488012** Collected: 06/14/17 12:03 Received: 09/27/17 10:20 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	04/03/18 07:20	04/05/18 15:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**458**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**299**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**90.9J**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	11096-82-5	
PCB, Total	**848**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 15:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		2	04/03/18 07:20	04/05/18 15:58	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	04/03/18 07:20	04/05/18 15:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.75**	%	0.030	0.030	1		04/05/18 06:36		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-BB-03 **Lab ID: 40157488013** Collected: 06/14/17 12:00 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**57.1J**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**525**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**371**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**118**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	11096-82-5	
PCB, Total	**1070**	ug/kg	100	22.8	2	04/03/18 07:20	04/05/18 16:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		2	04/03/18 07:20	04/05/18 16:14	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	04/03/18 07:20	04/05/18 16:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		04/05/18 06:36		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-BB-02 **Lab ID: 40157488014** Collected: 06/14/17 11:56 Received: 09/27/17 10:20 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	04/03/18 07:20	04/05/18 16:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**57.8J**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**394**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**248**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**86.9J**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	11096-82-5	
PCB, Total	**787**	ug/kg	99.9	22.8	2	04/03/18 07:20	04/05/18 16:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		2	04/03/18 07:20	04/05/18 16:30	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		2	04/03/18 07:20	04/05/18 16:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.68**	%	0.030	0.030	1		04/05/18 06:36		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Sample: SW2-170614-01-BB-01 **Lab ID: 40157488015** Collected: 06/14/17 11:52 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**596**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**463**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**148J**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	11096-82-5	
PCB, Total	**1210**	ug/kg	150	34.3	3	04/03/18 07:20	04/05/18 16:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		3	04/03/18 07:20	04/05/18 16:46	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		3	04/03/18 07:20	04/05/18 16:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/29/18 14:12		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.75**	%	0.030	0.030	1		04/05/18 06:36		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 284601 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157488001, 40157488002, 40157488003, 40157488004, 40157488005

METHOD BLANK: 1665641 | Matrix: Tissue
Associated Lab Samples: 40157488001, 40157488002, 40157488003, 40157488004, 40157488005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
Decachlorobiphenyl (S)	%	91	60-140		03/30/18 23:59	
Tetrachloro-m-xylene (S)	%	74	60-140		03/30/18 23:59	

LABORATORY CONTROL SAMPLE: 1665642

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	235	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)	%			93	60-140	
Tetrachloro-m-xylene (S)	%			77	60-140	

MATRIX SPIKE SAMPLE: 1665643

Parameter	Units	40157488005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	35.6J		119			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	284	113	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	218		340			
PCB-1254 (Aroclor 1254)	ug/kg	147		148			
PCB-1260 (Aroclor 1260)	ug/kg	54.9		47.6J			
Decachlorobiphenyl (S)	%				91	60-140	
Tetrachloro-m-xylene (S)	%				80	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

SAMPLE DUPLICATE: 1665644

Parameter	Units	40157488005 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	35.6J	37.9J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	218	240	10	40	
PCB-1254 (Aroclor 1254)	ug/kg	147	163	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	54.9	60.5	10	40	
Decachlorobiphenyl (S)	%	88	91	4		
Tetrachloro-m-xylene (S)	%	81	86	5		

SAMPLE DUPLICATE: 1665645

Parameter	Units	40157825006 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	121	120	0	40	
PCB-1254 (Aroclor 1254)	ug/kg	73.8	73.4	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	19.9J	20.7J		40	
Decachlorobiphenyl (S)	%	93	90	3		
Tetrachloro-m-xylene (S)	%	90	86	5		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 284719 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157488007, 40157488008, 40157488009, 40157488010

METHOD BLANK: 1666454 | Matrix: Tissue
Associated Lab Samples: 40157488007, 40157488008, 40157488009, 40157488010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
Decachlorobiphenyl (S)	%	95	60-140		04/02/18 16:16	
Tetrachloro-m-xylene (S)	%	76	60-140		04/02/18 16:16	

LABORATORY CONTROL SAMPLE: 1666455

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	239	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)	%			97	60-140	
Tetrachloro-m-xylene (S)	%			86	60-140	

MATRIX SPIKE SAMPLE: 1666456

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114		<114			
PCB-1221 (Aroclor 1221)	ug/kg	<114		<114			
PCB-1232 (Aroclor 1232)	ug/kg	<114		<114			
PCB-1242 (Aroclor 1242)	ug/kg	<114	250	313J	125	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	878		907			
PCB-1254 (Aroclor 1254)	ug/kg	1100		971			
PCB-1260 (Aroclor 1260)	ug/kg	384J		322J			
Decachlorobiphenyl (S)	%				106	60-140	
Tetrachloro-m-xylene (S)	%				78	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

SAMPLE DUPLICATE: 1666457

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	<114	<114		40	
PCB-1232 (Aroclor 1232)	ug/kg	<114	<114		40	
PCB-1242 (Aroclor 1242)	ug/kg	<114	<114		40	
PCB-1248 (Aroclor 1248)	ug/kg	878	789	11	40	
PCB-1254 (Aroclor 1254)	ug/kg	1100	990	11	40	
PCB-1260 (Aroclor 1260)	ug/kg	384J	360J		40	
Decachlorobiphenyl (S)	%	107	99	8		
Tetrachloro-m-xylene (S)	%	81	69	15		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 284965 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157488011, 40157488012, 40157488013, 40157488014, 40157488015

METHOD BLANK: 1667970 | Matrix: Tissue
Associated Lab Samples: 40157488011, 40157488012, 40157488013, 40157488014, 40157488015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/05/18 15:11	
Decachlorobiphenyl (S)	%	87	60-140		04/05/18 15:11	
Tetrachloro-m-xylene (S)	%	74	60-140		04/05/18 15:11	

LABORATORY CONTROL SAMPLE: 1667971

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	237	95	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)	%			93	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1667972

Parameter	Units	40157489016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.2		<34.1			
PCB-1221 (Aroclor 1221)	ug/kg	<34.2		<34.1			
PCB-1232 (Aroclor 1232)	ug/kg	<34.2		<34.1			
PCB-1242 (Aroclor 1242)	ug/kg	<34.2	249	352	141	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	665		859			
PCB-1254 (Aroclor 1254)	ug/kg	371		425			
PCB-1260 (Aroclor 1260)	ug/kg	94.1J		103J			
Decachlorobiphenyl (S)	%				99	60-140	
Tetrachloro-m-xylene (S)	%				92	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

SAMPLE DUPLICATE: 1667973

Parameter	Units	40157489016 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.2	<34.1		40	
PCB-1221 (Aroclor 1221)	ug/kg	<34.2	<34.1		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.2	<34.1		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.2	<34.1		40	
PCB-1248 (Aroclor 1248)	ug/kg	665	601	10	40	
PCB-1254 (Aroclor 1254)	ug/kg	371	336	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	94.1J	86.6J		40	
Decachlorobiphenyl (S)	%	104	96	8		
Tetrachloro-m-xylene (S)	%	97	88	10		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 285569 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157488006

METHOD BLANK: 1671063 | Matrix: Tissue
Associated Lab Samples: 40157488006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/11/18 15:19	
Decachlorobiphenyl (S)	%	91	60-140		04/11/18 15:19	
Tetrachloro-m-xylene (S)	%	74	60-140		04/11/18 15:19	

LABORATORY CONTROL SAMPLE: 1671064

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	238	95	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)	%			94	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1671101

Parameter	Units	40157488006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<57.2		<57.2			
PCB-1221 (Aroclor 1221)	ug/kg	<57.2		<57.2			
PCB-1232 (Aroclor 1232)	ug/kg	<57.2		<57.2			
PCB-1242 (Aroclor 1242)	ug/kg	<57.2	251	445	178	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	1130		1330			
PCB-1254 (Aroclor 1254)	ug/kg	999		1060			
PCB-1260 (Aroclor 1260)	ug/kg	294		307			
Decachlorobiphenyl (S)	%				111	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.: 40157488

SAMPLE DUPLICATE: 1671100

Parameter	Units	40157488006 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<57.2	<57.1		40	
PCB-1221 (Aroclor 1221)	ug/kg	<57.2	<57.1		40	
PCB-1232 (Aroclor 1232)	ug/kg	<57.2	<57.1		40	
PCB-1242 (Aroclor 1242)	ug/kg	<57.2	<57.1		40	
PCB-1248 (Aroclor 1248)	ug/kg	1130	1210	7	40	
PCB-1254 (Aroclor 1254)	ug/kg	999	1080	8	40	
PCB-1260 (Aroclor 1260)	ug/kg	294	331	12	40	
Decachlorobiphenyl (S)	%	107	109	1		
Tetrachloro-m-xylene (S)	%	96	97	1		

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 284721 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157488001, 40157488002, 40157488003, 40157488004, 40157488005

METHOD BLANK: 1666462 Matrix: Tissue
Associated Lab Samples: 40157488001, 40157488002, 40157488003, 40157488004, 40157488005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/30/18 06:40	

MATRIX SPIKE SAMPLE: 1682550

Parameter	Units	40157488005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.65		0.54			

SAMPLE DUPLICATE: 1666465

Parameter	Units	40157488005 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.65	0.75	14	40	

SAMPLE DUPLICATE: 1666466

Parameter	Units	40157825006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.97	0.93	4	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 284832 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157488007, 40157488008, 40157488009, 40157488010

METHOD BLANK: 1667515 Matrix: Tissue
Associated Lab Samples: 40157488007, 40157488008, 40157488009, 40157488010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/02/18 06:18	

MATRIX SPIKE SAMPLE: 1682573

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.28		0.26			

SAMPLE DUPLICATE: 1667518

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.28	0.23	22	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 285200 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157488011, 40157488012, 40157488013, 40157488014, 40157488015

METHOD BLANK: 1669168 | Matrix: Tissue
Associated Lab Samples: 40157488011, 40157488012, 40157488013, 40157488014, 40157488015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/05/18 06:36	

MATRIX SPIKE SAMPLE: 1682810

Parameter	Units	40157489016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.90		0.96			

SAMPLE DUPLICATE: 1669171

Parameter	Units	40157489016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.90	0.88	1	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

QC Batch: 285708 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157488006

METHOD BLANK: 1671710 | Matrix: Tissue
Associated Lab Samples: 40157488006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/11/18 07:17	

MATRIX SPIKE SAMPLE: 1682838

Parameter	Units	40157488006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.0		1.1			

SAMPLE DUPLICATE: 1671713

Parameter	Units	40157488006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.0	1.2	18	40	

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157488001	**SW2-170614-01-YP-05**	EPA 3541	284601	EPA 8082A Mod	284746
40157488002	**SW2-170614-01-YP-04**	EPA 3541	284601	EPA 8082A Mod	284746
40157488003	**SW2-170614-01-YP-03**	EPA 3541	284601	EPA 8082A Mod	284746
40157488004	**SW2-170614-01-YP-02**	EPA 3541	284601	EPA 8082A Mod	284746
40157488005	**SW2-170614-01-YP-01**	EPA 3541	284601	EPA 8082A Mod	284746
40157488006	**SW2-170614-01-SMB-01**	EPA 3541	285569	EPA 8082A Mod	285728
40157488007	**SW2-170614-01-LMB-04**	EPA 3541	284719	EPA 8082A Mod	284860
40157488008	**SW2-170614-01-LMB-03**	EPA 3541	284719	EPA 8082A Mod	284860
40157488009	**SW2-170614-01-LMB-02**	EPA 3541	284719	EPA 8082A Mod	284860
40157488010	**SW2-170614-01-LMB-01**	EPA 3541	284719	EPA 8082A Mod	284860
40157488011	**SW2-170614-01-BB-05**	EPA 3541	284965	EPA 8082A Mod	285248
40157488012	**SW2-170614-01-BB-04**	EPA 3541	284965	EPA 8082A Mod	285248
40157488013	**SW2-170614-01-BB-03**	EPA 3541	284965	EPA 8082A Mod	285248
40157488014	**SW2-170614-01-BB-02**	EPA 3541	284965	EPA 8082A Mod	285248
40157488015	**SW2-170614-01-BB-01**	EPA 3541	284965	EPA 8082A Mod	285248
40157488001	**SW2-170614-01-YP-05**	Pace Gender Typing	284689		
40157488002	**SW2-170614-01-YP-04**	Pace Gender Typing	284689		
40157488003	**SW2-170614-01-YP-03**	Pace Gender Typing	284689		
40157488004	**SW2-170614-01-YP-02**	Pace Gender Typing	284689		
40157488005	**SW2-170614-01-YP-01**	Pace Gender Typing	284689		
40157488006	**SW2-170614-01-SMB-01**	Pace Gender Typing	284689		
40157488007	**SW2-170614-01-LMB-04**	Pace Gender Typing	284689		
40157488008	**SW2-170614-01-LMB-03**	Pace Gender Typing	284689		
40157488009	**SW2-170614-01-LMB-02**	Pace Gender Typing	284689		
40157488010	**SW2-170614-01-LMB-01**	Pace Gender Typing	284689		
40157488011	**SW2-170614-01-BB-05**	Pace Gender Typing	284689		
40157488012	**SW2-170614-01-BB-04**	Pace Gender Typing	284689		
40157488013	**SW2-170614-01-BB-03**	Pace Gender Typing	284689		
40157488014	**SW2-170614-01-BB-02**	Pace Gender Typing	284689		
40157488015	**SW2-170614-01-BB-01**	Pace Gender Typing	284689		
40157488001	**SW2-170614-01-YP-05**	Pace Lipid	284721		
40157488002	**SW2-170614-01-YP-04**	Pace Lipid	284721		
40157488003	**SW2-170614-01-YP-03**	Pace Lipid	284721		
40157488004	**SW2-170614-01-YP-02**	Pace Lipid	284721		
40157488005	**SW2-170614-01-YP-01**	Pace Lipid	284721		
40157488006	**SW2-170614-01-SMB-01**	Pace Lipid	285708		
40157488007	**SW2-170614-01-LMB-04**	Pace Lipid	284832		
40157488008	**SW2-170614-01-LMB-03**	Pace Lipid	284832		
40157488009	**SW2-170614-01-LMB-02**	Pace Lipid	284832		
40157488010	**SW2-170614-01-LMB-01**	Pace Lipid	284832		
40157488011	**SW2-170614-01-BB-05**	Pace Lipid	285200		
40157488012	**SW2-170614-01-BB-04**	Pace Lipid	285200		
40157488013	**SW2-170614-01-BB-03**	Pace Lipid	285200		
40157488014	**SW2-170614-01-BB-02**	Pace Lipid	285200		
40157488015	**SW2-170614-01-BB-01**	Pace Lipid	285200		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157488

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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40157488

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170614-T11-04
Sample Custodian: MCS
Lab: Pace - Green Bay

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

OK 6-27-17

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	SW2-170614-01	SW2-170614-01-YP-05	6/14/2017	11:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-2 ziploc A
002	SW2-170614-01	SW2-170614-01-YP-04	6/14/2017	11:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	SW2-170614-01	SW2-170614-01-YP-03	6/14/2017	11:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	SW2-170614-01	SW2-170614-01-YP-02	6/14/2017	11:27	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	SW2-170614-01	SW2-170614-01-YP-01	6/14/2017	11:25	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	SW2-170614-01	SW2-170614-01-SMB-01	6/14/2017	11:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	SW2-170614-01	SW2-170614-01-LMB-04	6/14/2017	11:45	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	SW2-170614-01	SW2-170614-01-LMB-03	6/14/2017	11:42	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	SW2-170614-01	SW2-170614-01-LMB-02	6/14/2017	11:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	SW2-170614-01	SW2-170614-01-LMB-01	6/14/2017	11:38	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX	Signature	Signature Fed Ex	Signature [signature]
Print Name Jim Ryan	Print Name L. Bittle	Print Name L. Bittle	Print Name	Print Name	Print Name Kim Retzke
Company Anchor QEA	Company PACE Temps: -0.4, -0.4, -0.4	Company PACE	Company	Company	Company Pace
Date/Time 6/15/17 8:00	Date/Time 6/15/17 08:00	Date/Time 9/26/17 16:00	Date/Time	Date/Time 9/27/17 1020	Date/Time 9/27/17 1020

Date Printed: 6/14/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

40157488

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170614-T11-04
Sample Custodian: MCS
Lab: Pace - Green Bay

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

OK 9-27-17

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	SW2-170614-01	SW2-170614-01-BB-05	6/14/2017	12:07	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc
012	SW2-170614-01	SW2-170614-01-BB-04	6/14/2017	12:03	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	SW2-170614-01	SW2-170614-01-BB-03	6/14/2017	12:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	SW2-170614-01	SW2-170614-01-BB-02	6/14/2017	11:56	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	SW2-170614-01	SW2-170614-01-BB-01	6/14/2017	11:52	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX→	Signature	Signature Fed Ex	Signature [signature]
Print Name Jim Ryan	Print Name A. Bittle	Print Name A. Bittle	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE Temp: -0.4, -0.4, -0.3	Company PACE	Company	Company	Company
Date/Time 6/15/17 8:00	Date/Time 6/15/17 08:00	Date/Time 9/26/17 16:00	Date/Time	Date/Time 9/27/17 1020	Date/Time 9/27/17 1020

Date Printed: 6/14/2017 * 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# : 40157488**

40157488

Client Name: Anchor QEA

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

Tracking #: 4099 9470 4446 (1)

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-71 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0 **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: 9-27-17
Initials: KR

		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 9-27-17 KR	~~☑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: (1) 4099 9470 4468, 4099 9470 4457, 4099 9470 4479

Project Manager Review: AL for TN **Date:** 9-27-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157488
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 0°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.

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 SW2-170614-01-YP-01 was designated as the parent sample for the MS for extraction batch 284601 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were met.
3. **Matrix Spike (MS):** Sample SW2-170614-01-SMB-01 was designated as the parent sample for the MS for extraction batch 285569 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to the parent result on the final report.
4. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 284719 and 284965 and one portion of each parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met with the following exceptions. MS 1666456 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 MS 1666456 on the final report. MS 1667972 required a 1:3 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to MS 1667972 on the final report.

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

F. **Sample Duplicate:** Samples SW2-170614-01-YP-01 and SW2-170614-01-SMB-01 were designated as the duplicates for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. **Dilutions:**

Sample ID	Reason for dilution
SW2-170614-01-YP-04	To bring Aroclors within instrument calibration range
SW2-170614-01-YP-02	To bring Aroclors within instrument calibration range
SW2-170614-01-SMB-01	To bring Aroclors within instrument calibration range
SW2-170614-01-LMB-04	To bring Aroclors within instrument calibration range
SW2-170614-01-LMB-02	To bring Aroclors within instrument calibration range
SW2-170614-01-LMB-01	To bring Aroclors within instrument calibration range
SW2-170614-01-BB-04	To bring Aroclors within instrument calibration range
SW2-170614-01-BB-03	To bring Aroclors within instrument calibration range
SW2-170614-01-BB-02	To bring Aroclors within instrument calibration range
SW2-170614-01-BB-01	To bring Aroclors within 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.

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: 05/15/18

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.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1665641	1665641BLANK	91	74
1665642	1665642LCS	93	77
1665643	1665643MS	91	80
1665644	1665644DUP	91	86
40157488001	SW2-170614-01-YP-05	89	85
40157488002	SW2-170614-01-YP-04	95	88
40157488003	SW2-170614-01-YP-03	87	84
40157488004	SW2-170614-01-YP-02	97	86
40157488005	SW2-170614-01-YP-01	88	81

	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.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1666454	1666454BLANK	95	76
1666455	1666455LCS	97	86
40157488007	SW2-170614-01-LMB-04	100	67
40157488008	SW2-170614-01-LMB-03	88	71
40157488009	SW2-170614-01-LMB-02	100	70
40157488010	SW2-170614-01-LMB-01	102	77

	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.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1667970	1667970BLANK	87	74
1667971	1667971LCS	93	78
40157488011	SW2-170614-01-BB-05	91	88
40157488012	SW2-170614-01-BB-04	92	85
40157488013	SW2-170614-01-BB-03	92	88
40157488014	SW2-170614-01-BB-02	100	96
40157488015	SW2-170614-01-BB-01	104	98

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1671063	1671063BLANK	91	74
1671064	1671064LCS	94	84
1671100	1671100DUP	109	97
1671101	1671101MS	111	101
40157488006	SW2-170614-01-SMB-01	107	96

	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

Lab Sample ID: 1665642LCS

Date Extracted: 03/29/2018

Date Analyzed (1): 03/31/2018

Instrument: 40GCSJ

LCS Lot No: 192096

Lab File ID: 033018.B\033018036.D

SDG No.: 40157488

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	235	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: 03/30/2018

Instrument: 40GCSJ

Lab File ID: 040218.B\040218009.D

Lab Sample ID: 1666455LCS

Date Analyzed (1): 04/02/2018

LCS Lot No: 192096

SDG No.: 40157488

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	239	96	70-130

Spike Recovery: 0 out of 1 outside limits.

05/15/2018 11:29

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/03/2018

Instrument: 40GCSJ

Lab File ID: 040518.B\040518009.D

Lab Sample ID: 1667971LCS

Date Analyzed (1): 04/05/2018

LCS Lot No: 192096

SDG No.: 40157488

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	237	95	70-130

Spike Recovery: 0 out of 1 outside limits.

05/15/2018 11:30

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/10/2018

Instrument: 40GCSJ

Lab File ID: 041118.B\041118008.D

Lab Sample ID: 1671064LCS

Date Analyzed (1): 04/11/2018

LCS Lot No: 192096

SDG No.: 40157488

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	238	95	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: 03/29/2018

Instrument: 40GCSJ

Parent Sample ID: SW2-170614-01-YP-01

Matrix Spike - Sample No: 1665643MS

Date Analyzed (1): 03/31/2018

Lab File ID: 033018.B\033018037.D

SDG No.: 40157488

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<11.4	284	113	70-130

Spike Recovery: 0 out of 1 outside limits.

05/15/2018 11:29

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument: 40GCSJ

Parent Sample ID: 40157487017

Matrix Spike - Sample No: 1666456MS

Date Analyzed (1): 04/02/2018

Lab File ID: 040218.B\040218020.D

SDG No.: 40157488

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<114	313J	125	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: 04/03/2018

Instrument: 40GCSJ

Parent Sample ID: 40157489016

Matrix Spike - Sample No: 1667972MS

Date Analyzed (1): 04/05/2018

Lab File ID: 040518.B\040518023.D

SDG No.: 40157488

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	249	<34.2	352	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: 04/10/2018

Instrument: 40GCSJ

Parent Sample ID: SW2-170614-01-SMB-01

Matrix Spike - Sample No: 1671101MS

Date Analyzed (1): 04/11/2018

Lab File ID: 041118.B\041118010.D

SDG No.: 40157488

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<57.2	445	178	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: 03/29/2018

Instrument 40GCSJ

Lab Sample ID: 40157825006

Duplicate Sample No: 40157825006DUP

Date Analyzed: 03/31/2018

Lab File ID: 033018.B\033018058.D

SDG No.: 40157488

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	121	120	0	0-40
PCB-1254 (Aroclor 1254)	73.8	73.4	1	0-40
PCB-1260 (Aroclor 1260)	19.9J	20.7J		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: 03/29/2018

Instrument 40GCSJ

Lab Sample ID: SW2-170614-01-YP-01

Duplicate Sample No: 40157488005DUP

Date Analyzed: 03/31/2018

Lab File ID: 033018.B\033018045.D

SDG No.: 40157488

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	35.6J	37.9J		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	218	240	10	0-40
PCB-1254 (Aroclor 1254)	147	163	10	0-40
PCB-1260 (Aroclor 1260)	54.9	60.5	10	0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument 40GCSJ

Lab Sample ID: 40157487017

Duplicate Sample No: 40157487017DUP

Date Analyzed: 04/02/2018

Lab File ID: 040218.B\040218021.D

SDG No.: 40157488

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	<114	<114		0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	878	789	11	0-40
PCB-1254 (Aroclor 1254)	1100	990	11	0-40
PCB-1260 (Aroclor 1260)	384J	360J		0-40

RPD: 0 out of 2 outside limits.

05/15/2018 11:29

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/03/2018

Instrument 40GCSJ

Lab Sample ID: 40157489016

Duplicate Sample No: 40157489016DUP

Date Analyzed: 04/05/2018

Lab File ID: 040518.B\040518024.D

SDG No.: 40157488

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.2	<34.1		0-40
PCB-1221 (Aroclor 1221)	<34.2	<34.1		0-40
PCB-1232 (Aroclor 1232)	<34.2	<34.1		0-40
PCB-1242 (Aroclor 1242)	<34.2	<34.1		0-40
PCB-1248 (Aroclor 1248)	665	601	10	0-40
PCB-1254 (Aroclor 1254)	371	336	10	0-40
PCB-1260 (Aroclor 1260)	94.1J	86.6J		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: 04/10/2018

Instrument 40GCSJ

Lab Sample ID: SW2-170614-01-SMB-01

Duplicate Sample No: 40157488006DUP

Date Analyzed: 04/11/2018

Lab File ID: 041118.B\041118011.D

SDG No.: 40157488

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<57.2	<57.1		0-40
PCB-1221 (Aroclor 1221)	<57.2	<57.1		0-40
PCB-1232 (Aroclor 1232)	<57.2	<57.1		0-40
PCB-1242 (Aroclor 1242)	<57.2	<57.1		0-40
PCB-1248 (Aroclor 1248)	1130	1210	7	0-40
PCB-1254 (Aroclor 1254)	999	1080	8	0-40
PCB-1260 (Aroclor 1260)	294	331	12	0-40

RPD: 0 out of 3 outside limits.

05/15/2018 11:30

SAMPLE NO.

1665641BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1665641

Lab File ID: 033018.B\033018035.D Date Analyzed: 03/30/2018 Time:23:59

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1665642LCS	1665642	033018.B\033018036.D	03/31/2018 00:15
1665643MS	1665643	033018.B\033018037.D	03/31/2018 00:30
SW2-170614-01-YP-05	40157488001	033018.B\033018038.D	03/31/2018 00:46
SW2-170614-01-YP-04	40157488002	033018.B\033018039.D	03/31/2018 01:02
SW2-170614-01-YP-03	40157488003	033018.B\033018042.D	03/31/2018 01:50
SW2-170614-01-YP-02	40157488004	033018.B\033018043.D	03/31/2018 02:06
SW2-170614-01-YP-01	40157488005	033018.B\033018044.D	03/31/2018 02:21
1665644DUP	1665644	033018.B\033018045.D	03/31/2018 02:37
1665645DUP	1665645	033018.B\033018058.D	03/31/2018 06:04

SAMPLE NO.

1666454BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1666454

Lab File ID: 040218.B\040218008.D Date Analyzed: 04/02/2018 Time:16:16

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1666455LCS	1666455	040218.B\040218009.D	04/02/2018 16:32
1666457DUP	1666457	040218.B\040218021.D	04/02/2018 19:42
SW2-170614-01-LMB-04	40157488007	040218.B\040218025.D	04/02/2018 20:45
SW2-170614-01-LMB-03	40157488008	040218.B\040218026.D	04/02/2018 21:01
SW2-170614-01-LMB-02	40157488009	040218.B\040218027.D	04/02/2018 21:17
SW2-170614-01-LMB-01	40157488010	040218.B\040218030.D	04/02/2018 22:05

SAMPLE NO.

1667970BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1667970

Lab File ID: 040518.B\040518008.D Date Analyzed: 04/05/2018 Time:15:11

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1667971LCS	1667971	040518.B\040518009.D	04/05/2018 15:27
SW2-170614-01-BB-05	40157488011	040518.B\040518010.D	04/05/2018 15:43
SW2-170614-01-BB-04	40157488012	040518.B\040518011.D	04/05/2018 15:58
SW2-170614-01-BB-03	40157488013	040518.B\040518012.D	04/05/2018 16:14
SW2-170614-01-BB-02	40157488014	040518.B\040518013.D	04/05/2018 16:30
SW2-170614-01-BB-01	40157488015	040518.B\040518014.D	04/05/2018 16:46
1667973DUP	1667973	040518.B\040518024.D	04/05/2018 19:25

SAMPLE NO.

1671063BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157488 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1671063

Lab File ID: 041118.B\041118007.D Date Analyzed: 04/11/2018 Time: 15:19

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1671064LCS	1671064	041118.B\041118008.D	04/11/2018 15:35
SW2-170614-01-SMB-01	40157488006	041118.B\041118009.D	04/11/2018 15:51
1671101MS	1671101	041118.B\041118010.D	04/11/2018 16:07
1671100DUP	1671100	041118.B\041118011.D	04/11/2018 16:23

SAMPLE NO.

SW2-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157488001
Date Analyzed: 03/31/2018 00:46
Lab File ID: 033018.B\033018038.D
Initial wt/vol: 10.0326 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)	28.7	J
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)	260	
11097-69-1	PCB-1254 (Aroclor 1254)	141	
11096-82-5	PCB-1260 (Aroclor 1260)	24.3	J
1336-36-3	PCB, Total	454	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018038.D
Lab Smp Id: 40157488001 Client Smp ID: SW2-170614-01-YP-05
Inj Date : 31-MAR-2018 00:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488001,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
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	10.033	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	39836	19549	0.491	0.06		
1.426	15438	10032	0.650	0.02		
1.537	15103	9476	0.627	0.02		
1.799	16325	8807	0.539	0.02	1 Aroclor 1221	BA
2.011	19304	12376	0.641	0.02		
2.198	80121	38800	0.484	0.12		
2.410	123284	97763	0.793	0.19	1 Aroclor 1221	BA
2.485	10462652	9810959	0.938	16.72	$ 2 Tetrachloro-m-xylene	BA
2.687	10888	9355	0.859	0.01	1 Aroclor 1221	BA
2.787	29478	24422	0.828	0.04	1 Aroclor 1221	BA
2.852	40030	26561	0.664	0.06	1 Aroclor 1221	BA
2.977	50218	23455	0.467	0.07		
3.019	32899	30010	0.912	0.05		
3.055	140505	125597	0.894	0.21		
3.318	48507	42928	0.885	0.07		
3.345	58679	47232	0.805	0.09		
3.433	148721	133549	0.898	0.22		
3.519	205386	187516	0.913	0.31		
3.645	41217	28760	0.698	0.06		
3.732	266130	253928	0.954	0.41		
3.756	99832	99797	1.000	0.15		
3.827	1634761	1060321	0.649	2.52		
3.938	143275	105752	0.738	0.22		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	254435	241124	0.948	0.39	
4.059	115354	90716	0.786	0.17	
4.140	14349	12594	0.878	0.02	
4.215	2181005	1988181	0.912	3.37	
4.261	1969962	1831444	0.930	3.04	6 Aroclor 1248
4.292	1690696	1430356	0.846	2.61	
4.350	29777	19675	0.661	0.04	
4.417	956516	916366	0.958	1.47	
4.452	642875	585188	0.910	0.99	
4.546	1306242	1217121	0.932	2.01	6 Aroclor 1248
4.589	118722	113415	0.955	0.18	
4.617	156762	133836	0.854	0.24	
4.680	116859	99367	0.850	0.18	
4.736	148492	100020	0.674	0.22	
4.767	286345	273553	0.955	0.44	
4.813	1034774	987282	0.954	1.59	6 Aroclor 1248
4.848	1246591	1211561	0.972	1.92	
4.879	3201590	1949544	0.609	4.94	6 Aroclor 1248
4.956	483566	426119	0.881	0.74	
5.037	1116784	1048350	0.939	1.72	6 Aroclor 1248
5.101	959798	850295	0.886	1.48	
5.162	1678641	1448057	0.863	2.59	7 Aroclor 1254
5.212	1225318	1088174	0.888	1.89	
5.284	133115	126329	0.949	0.20	
5.309	252411	212261	0.841	0.39	
5.363	606873	533557	0.879	0.93	
5.407	1115723	1023064	0.917	1.72	7 Aroclor 1254
5.447	969538	836226	0.862	1.49	
5.479	131517	121440	0.923	0.20	
5.510	2191154	1930496	0.881	3.38	7 Aroclor 1254
5.576	83986	72821	0.867	0.12	
5.605	282585	225145	0.797	0.43	
5.675	466731	432678	0.927	0.72	
5.713	317607	238966	0.752	0.49	
5.743	370686	278200	0.751	0.57	
5.789	2536782	1932759	0.762	3.92	
5.886	224166	150029	0.669	0.34	
5.931	157625	123629	0.784	0.24	
5.994	382045	342411	0.896	0.59	
6.023	1110141	973293	0.877	1.71	7 Aroclor 1254
6.055	1251269	1101227	0.880	1.93	
6.126	35130	21877	0.623	0.05	
6.168	341449	224413	0.657	0.52	
6.227	110875	119652	1.079	0.17	
6.241	182173	148166	0.813	0.28	
6.299	2089117	1696876	0.812	3.22	7 Aroclor 1254
6.333	158309	146982	0.928	0.24	
6.374	112325	77072	0.686	0.17	
6.431	206857	142456	0.689	0.31	
6.509	686956	616374	0.897	1.06	
6.534	386427	336128	0.870	0.59	
6.559	129401	115979	0.896	0.19	
6.605	72973	46669	0.640	0.11	
6.658	31411	28285	0.900	0.04	
6.718	176548	151328	0.857	0.27	
6.758	210239	171852	0.817	0.32	
6.799	218415	198485	0.909	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	119714	92226	0.770	0.18	
6.909	27034	20399	0.755	0.04	
6.941	231936	211276	0.911	0.35	
7.004	391380	365769	0.935	0.60	8 Aroclor 1260
7.035	57484	53658	0.933	0.08	
7.073	11666	12306	1.055	0.01	
7.096	18072	15271	0.845	0.02	
7.120	46603	23883	0.512	0.07	
7.249	220123	189330	0.860	0.34	8 Aroclor 1260
7.280	93450	72415	0.775	0.14	
7.339	26692	20297	0.760	0.04	
7.387	223885	188188	0.841	0.34	
7.440	177627	157238	0.885	0.27	8 Aroclor 1260
7.551	10838	11360	1.048	0.01	
7.577	11708	10909	0.932	0.01	
7.614	12185	8376	0.687	0.01	
7.659	9072	9825	1.083	0.01	
7.691	40100	40055	0.999	0.06	
7.725	105390	89831	0.852	0.16	
7.777	48549	38751	0.798	0.07	
7.810	79661	50306	0.632	0.12	
7.869	12982	14849	1.144	0.02	
7.899	129542	112161	0.866	0.20	8 Aroclor 1260
7.958	24640	14784	0.600	0.03	
8.049	33930	28135	0.829	0.05	
8.182	16058	11285	0.703	0.02	
8.274	199004	177416	0.892	0.30	
8.314	10249	8195	0.800	0.01	
8.377	25011	18793	0.751	0.03	
8.569	9719288	8414360	0.866	15.02	$ 12 Decachlorobiphenyl
8.727	31646	18717	0.591	0.04	
8.943	27941	18957	0.678	0.04	
9.167	37424	31619	0.845	0.05	
9.464	41547	24612	0.592	0.06	
9.958	43926	30077	0.685	0.06	
	64706960	55772037		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018038.D
Lab Smp Id: 40157488001 Client Smp ID: SW2-170614-01-YP-05
Inj Date : 31-MAR-2018 00:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488001,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
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	10.033	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.799	1.804	-0.005	16325	0.01568	7.8	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	123283	0.22503	110	0.00- 20.00	755.18	BA
2.687	2.688	-0.001	10888	0.00787	3.9	0.00- 20.00	66.70	BA
2.787	2.789	-0.002	29478	0.02666	13	0.00- 20.00	180.57	BA
2.852	2.851	0.001	40029	0.01230	6.1	0.00- 20.00	245.20	BA
Average of Peak Concentrations =					29			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10462651	0.08486	42		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								BA

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.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1969961	0.84080	420	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1306241	0.31473	160	0.00- 20.00	66.31	BA
4.813	4.812	0.001	1034774	0.50972	250	0.00- 20.00	52.53	BA
4.879	4.879	0.000	3201590	0.63556	320	0.00- 20.00	162.52	BA
5.036	5.038	-0.002	1116783	0.31121	160	0.00- 20.00	56.69	BA
			Average of Peak Concentrations =		260			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1678640	0.32064	160	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1115723	0.25941	130	0.00- 20.00	66.47	BA
5.509	5.510	-0.001	2191153	0.28214	140	0.00- 20.00	130.53	BA
6.023	6.027	-0.004	1110141	0.22797	110	0.00- 20.00	66.13	BA
6.299	6.299	0.000	2089117	0.32105	160	0.00- 20.00	124.45	BA
			Average of Peak Concentrations =		140			
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	391380	0.03908	19	0.00- 20.00	18.73	BA
7.248	7.251	-0.003	220122	0.04605	23	0.00- 20.00	10.54	BA
7.440	7.443	-0.003	177626	0.06093	30	0.00- 20.00	8.50	BA
7.898	7.901	-0.003	129542	0.04909	24	0.00- 20.00	6.20	BA
			Average of Peak Concentrations =		24			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9719288	0.08871	44			

QC Flag Legend

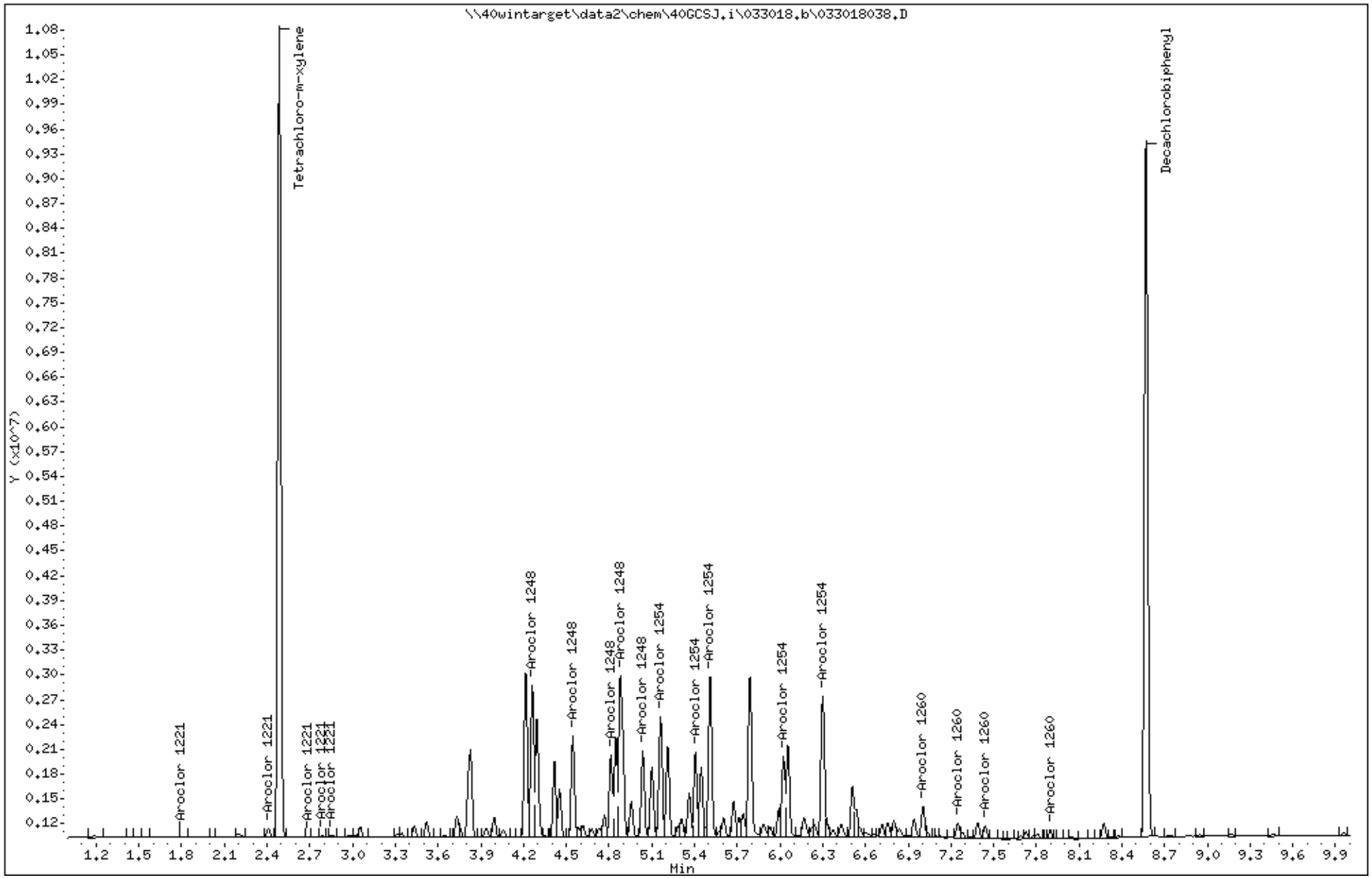
M - Compound response manually integrated.

Review Codes Legend

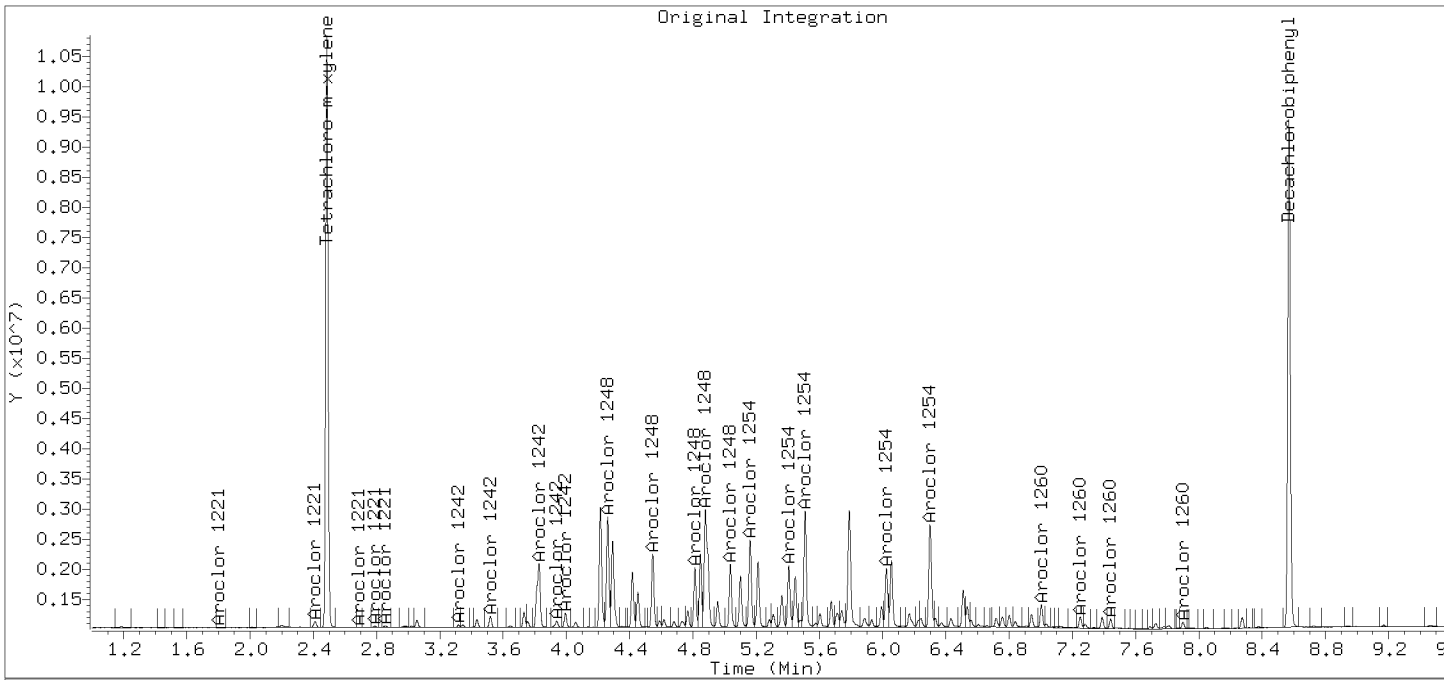
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

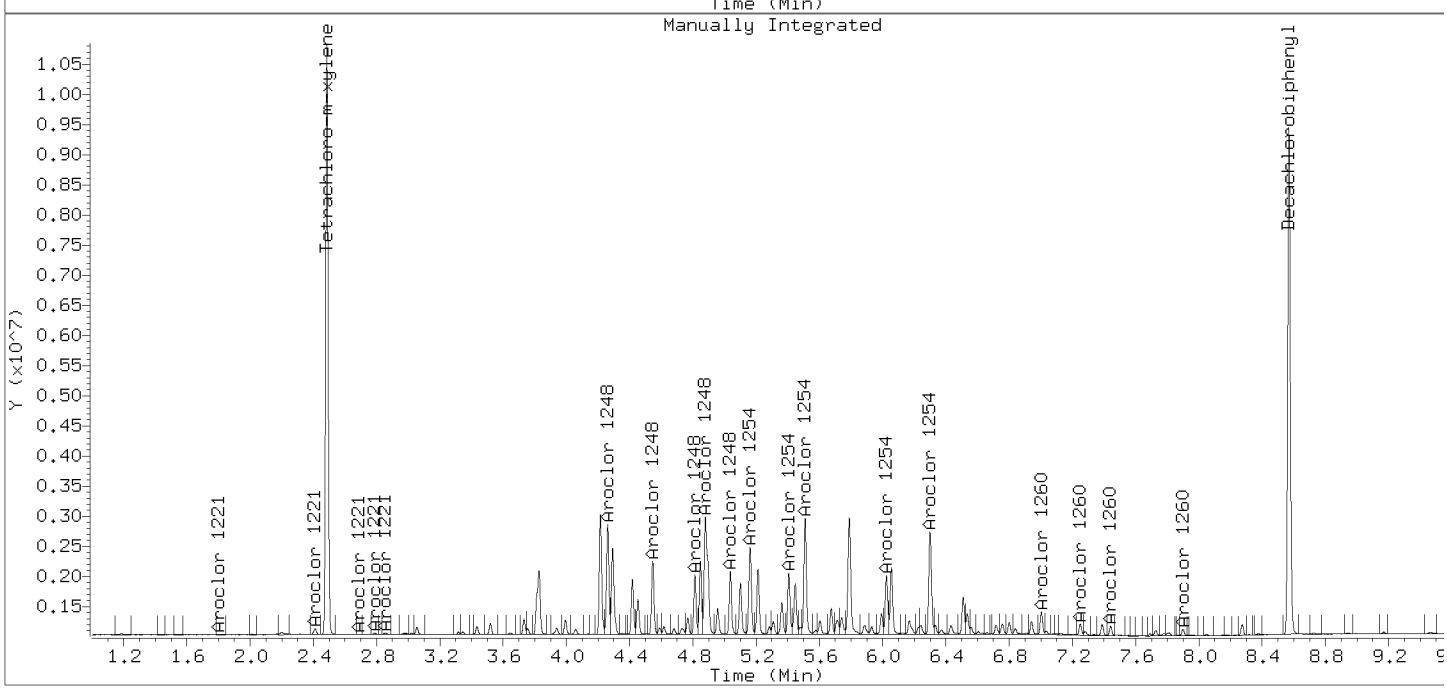
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018038.D
Date : 31-MAR-2018 00:46
Client ID: SW2-170614-01-YP-05
Sample Info: 40157488001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018038.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 00:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	44077	0	BA
Aroclor 1016	44077	0	BA
Aroclor 1016	44077	0	BA
Aroclor 1016	44077	0	BA
Aroclor 1016	44077	0	BA
Aroclor 1221	15159	16325	BA
Aroclor 1221	15159	16325	BA
Aroclor 1221	15159	16325	BA
Aroclor 1221	15159	16325	BA
Aroclor 1221	15159	16325	BA
Aroclor 1232	35258	0	BA
Aroclor 1232	35258	0	BA
Aroclor 1232	35258	0	BA
Aroclor 1232	35258	0	BA

Aroclor 1232	35258	0	BA
Aroclor 1242	44077	0	BA
Aroclor 1242	44077	0	BA
Aroclor 1242	44077	0	BA
Aroclor 1242	44077	0	BA
Aroclor 1242	44077	0	BA
Aroclor 1248	1958085	1969961	BA
Aroclor 1248	1958085	1969961	BA
Aroclor 1248	1958085	1969961	BA
Aroclor 1248	1958085	1969961	BA
Aroclor 1248	1958085	1969961	BA
Aroclor 1254	1662437	1678640	BA
Aroclor 1254	1662437	1678640	BA
Aroclor 1254	1662437	1678640	BA
Aroclor 1254	1662437	1678640	BA
Aroclor 1254	1662437	1678640	BA
Aroclor 1260	2077375	0	BA
Aroclor 1260	2077375	0	BA
Aroclor 1260	2077375	0	BA
Aroclor 1260	2077375	0	BA
Aroclor 1260	2077375	0	BA
Tetrachloro-m-xylene	10442496	10462651	BA
Decachlorobiphenyl	9719288	9719288	

==========

SAMPLE NO.

SW2-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157488002
Date Analyzed: 03/31/2018 01:02
Lab File ID: 033018.B\033018039.D
Initial wt/vol: 10.0297 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	354	
11097-69-1	PCB-1254 (Aroclor 1254)	201	
11096-82-5	PCB-1260 (Aroclor 1260)	38.6	J
1336-36-3	PCB, Total	593	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018039.D
Lab Smp Id: 40157488002 Client Smp ID: SW2-170614-01-YP-04
Inj Date : 31-MAR-2018 01:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488002 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
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) * CpndV

Name	Value	Description
DF	2.000	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	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	140263	112193	0.800	0.33		
2.484	5419858	5312979	0.980	13.47	$ 2 Tetrachloro-m-xylene	
2.679	9610	8335	0.867	0.02		
2.787	24060	20325	0.845	0.05		
2.853	42484	33613	0.791	0.10		
2.977	48975	24187	0.494	0.11		
3.019	28409	28549	1.005	0.06		
3.055	137702	126066	0.915	0.32		
3.319	61763	57905	0.938	0.14		
3.343	73962	65756	0.889	0.17		
3.433	178763	165381	0.925	0.42		
3.519	186364	175884	0.944	0.44		
3.643	29503	23559	0.799	0.07		
3.731	155865	158393	1.016	0.37		
3.755	72000	68577	0.952	0.17		
3.825	944711	597013	0.632	2.26		
3.938	137571	108175	0.786	0.32		
3.993	181351	169131	0.933	0.43		
4.058	85191	75575	0.887	0.20		
4.135	25105	15285	0.609	0.06		
4.215	1257342	1137273	0.905	3.01		
4.261	1237486	1203237	0.972	2.96	6 Aroclor 1248	BA
4.291	1308096	1097496	0.839	3.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	506596	484519	0.956	1.21	
4.452	390709	346786	0.888	0.93	
4.546	866614	820925	0.947	2.07	6 Aroclor 1248
4.587	88673	81857	0.923	0.21	
4.616	110625	89681	0.811	0.26	
4.680	91426	75354	0.824	0.21	
4.734	115874	79572	0.687	0.27	
4.767	209200	201003	0.961	0.50	
4.813	831578	810326	0.974	1.99	6 Aroclor 1248
4.847	660597	639855	0.969	1.58	
4.878	2039834	1271939	0.624	4.88	6 Aroclor 1248
4.956	352121	292004	0.829	0.84	
5.037	796500	752522	0.945	1.90	6 Aroclor 1248
5.101	664325	578835	0.871	1.59	
5.160	1191384	1051222	0.882	2.85	7 Aroclor 1254
5.211	929293	810601	0.872	2.22	
5.283	107700	100769	0.936	0.25	
5.307	202167	162760	0.805	0.48	
5.361	367299	328354	0.894	0.87	
5.406	786591	702156	0.893	1.88	7 Aroclor 1254
5.445	629861	525165	0.834	1.50	
5.478	105569	100995	0.957	0.25	
5.508	1394476	1230294	0.882	3.33	7 Aroclor 1254
5.576	72710	58310	0.802	0.17	
5.603	215184	170514	0.792	0.51	
5.674	360188	321511	0.893	0.86	
5.710	241747	186754	0.773	0.57	
5.741	299629	225270	0.752	0.71	
5.789	1813159	1373383	0.757	4.34	
5.884	205873	147235	0.715	0.49	
5.929	155503	104270	0.671	0.37	
5.993	292769	269143	0.919	0.70	
6.023	930959	822794	0.884	2.22	7 Aroclor 1254
6.054	970191	840541	0.866	2.32	
6.168	293334	181945	0.620	0.70	
6.225	107033	109942	1.027	0.25	
6.241	164751	126609	0.768	0.39	
6.300	1482234	1236979	0.835	3.55	7 Aroclor 1254
6.331	168058	145959	0.869	0.40	
6.372	99223	69771	0.703	0.23	
6.431	198440	137068	0.691	0.47	
6.509	442168	376814	0.852	1.05	
6.534	267799	239415	0.894	0.64	
6.560	114908	97313	0.847	0.27	
6.604	65165	43531	0.668	0.15	
6.659	49757	34246	0.688	0.11	
6.717	168289	132229	0.786	0.40	
6.757	176898	145288	0.821	0.42	
6.800	216181	183151	0.847	0.51	
6.839	125893	81295	0.646	0.30	
6.911	26279	22407	0.853	0.06	
6.941	102650	83992	0.818	0.24	
7.004	319501	284320	0.890	0.76	8 Aroclor 1260
7.033	38558	36083	0.936	0.09	
7.074	12726	11329	0.890	0.03	
7.121	52020	23061	0.443	0.12	
7.249	171139	147440	0.862	0.40	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	92093	60994	0.662	0.22	
7.335	25951	18951	0.730	0.06	
7.387	141789	132026	0.931	0.33	
7.442	156090	124484	0.798	0.37	8 Aroclor 1260
7.547	15224	12970	0.852	0.03	
7.582	11543	10408	0.902	0.02	
7.618	11797	9929	0.842	0.02	
7.691	31759	28281	0.890	0.07	
7.727	61289	48473	0.791	0.14	
7.764	17176	12130	0.706	0.04	
7.799	39710	23681	0.596	0.09	
7.898	89140	70982	0.796	0.21	8 Aroclor 1260
7.956	16208	11736	0.724	0.03	
8.048	29594	23816	0.805	0.07	
8.272	105144	96668	0.919	0.25	
8.381	17685	11640	0.658	0.04	
8.568	5200641	4341624	0.835	12.45	$ 12 Decachlorobiphenyl
8.938	16573	10113	0.610	0.03	
9.170	16649	14322	0.860	0.03	
9.948	10256	5867	0.572	0.02	
	41752672	35861388		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018039.D
Lab Smp Id: 40157488002 Client Smp ID: SW2-170614-01-YP-04
Inj Date : 31-MAR-2018 01:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488002 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
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) * CpndV

Name	Value	Description
DF	2.000	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	10.030	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		
2.484	2.484	0.000	5419857	0.04396	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			
4.260	4.261	-0.001	1237486	0.52817	530	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	866613	0.20881	210	0.00- 20.00	70.03	BA
4.812	4.812	0.000	831578	0.40963	410	0.00- 20.00	67.20	BA
4.878	4.879	-0.001	2039834	0.40493	400	0.00- 20.00	164.84	BA
5.037	5.038	-0.001	796499	0.22196	220	0.00- 20.00	64.36	BA
Average of Peak Concentrations =					350			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1191384	0.22757	230	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	786591	0.18288	180	0.00- 20.00	66.02	BA
5.508	5.510	-0.002	1394475	0.17956	180	0.00- 20.00	117.05	BA
6.023	6.027	-0.004	930958	0.19117	190	0.00- 20.00	78.14	BA
6.300	6.299	0.001	1482234	0.22779	230	0.00- 20.00	124.41	BA
Average of Peak Concentrations =					200			
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
7.003	7.006	-0.003	319501	0.03190	32	0.00- 20.00	21.56	BA
7.248	7.251	-0.003	171139	0.03580	36	0.00- 20.00	11.55	BA
7.441	7.443	-0.002	156089	0.05354	53	0.00- 20.00	10.53	BA
7.897	7.901	-0.004	89140	0.03378	34	0.00- 20.00	6.01	BA
Average of Peak Concentrations =					39			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.567	8.571	-0.004	5200640	0.04747	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\40GCSJ.i\033018.b\033018039.D

Date : 31-MAR-2018 01:02

Client ID: SW2-170614-01-YP-04

Instrument: 40GCSJ.i

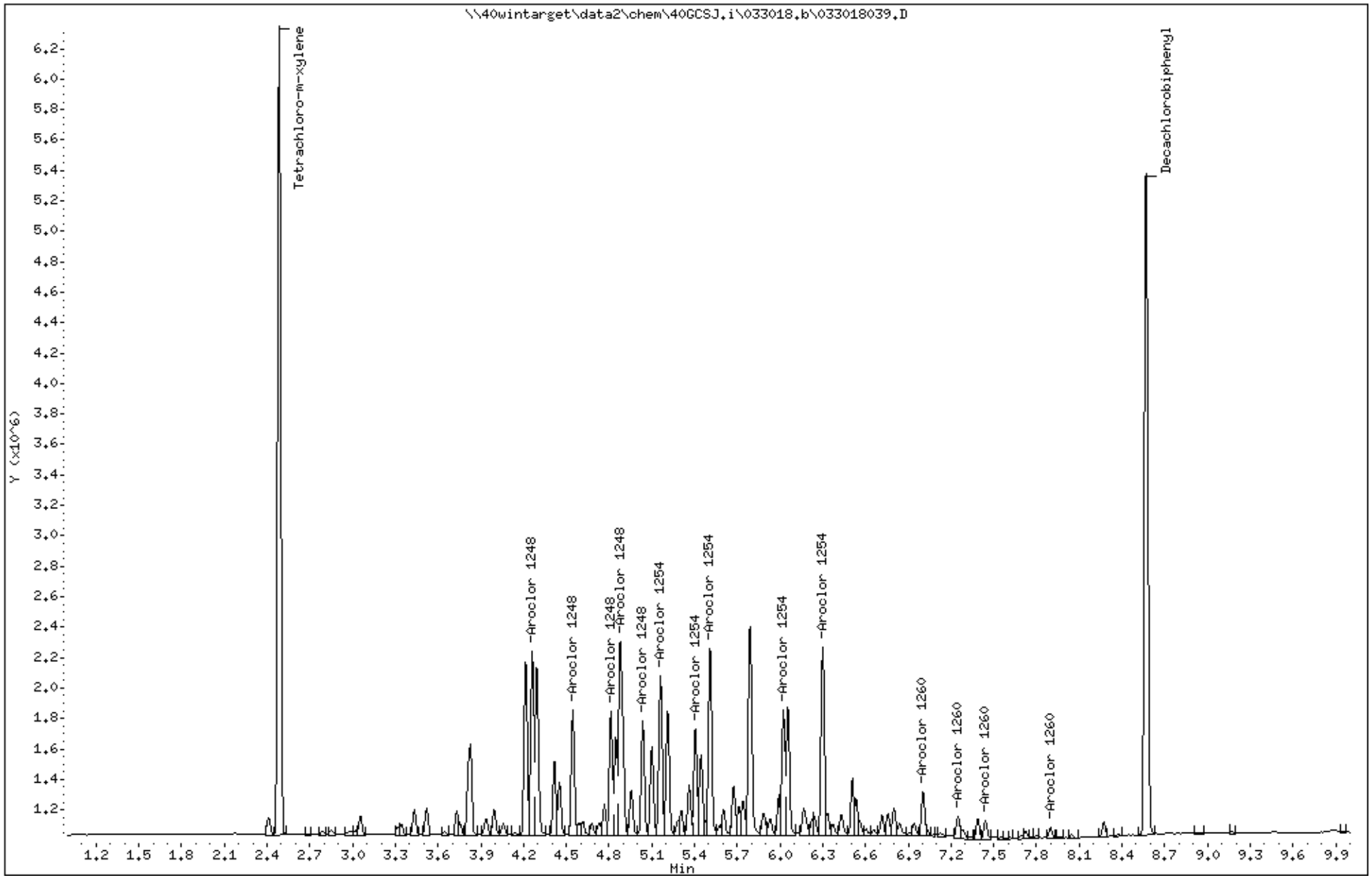
Sample Info: 40157488002 x2,

Volume Injected (uL): 1.0

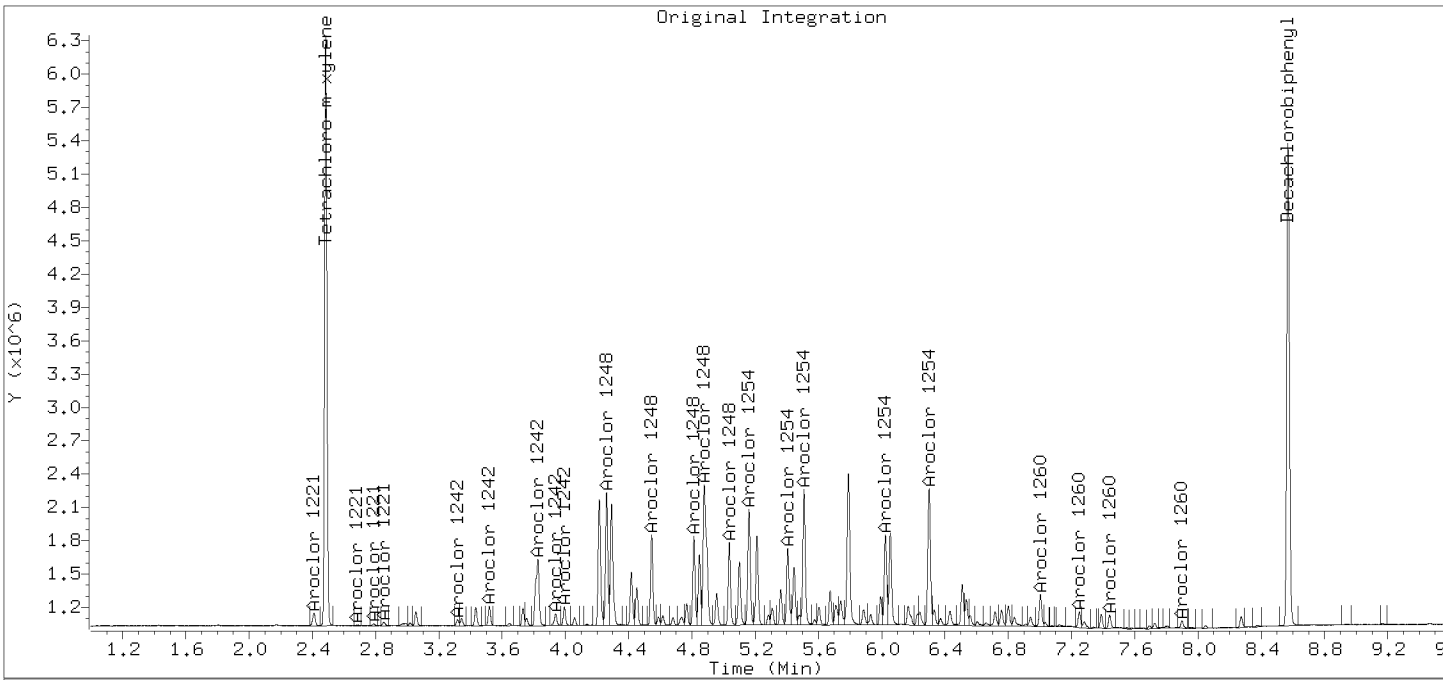
Operator: BLM

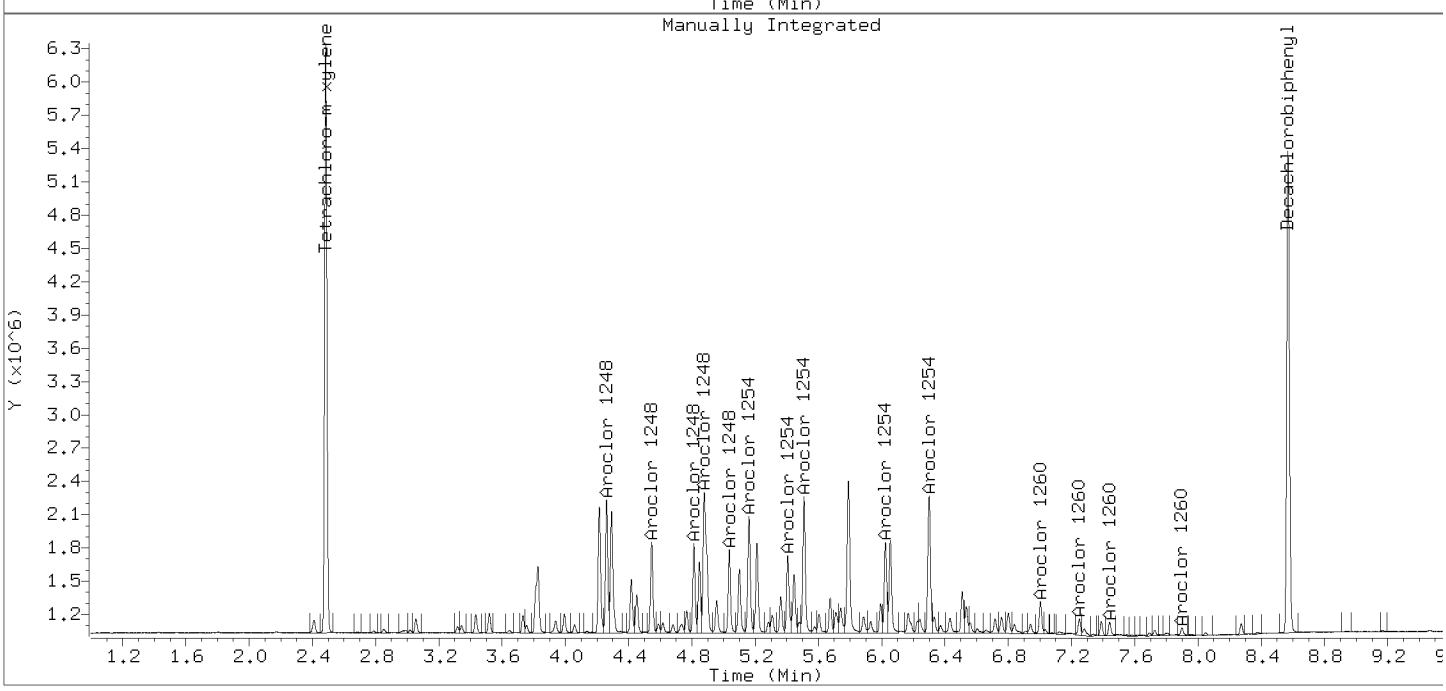
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018039.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 01:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	60071	0	
Aroclor 1016	60071	0	
Aroclor 1016	60071	0	
Aroclor 1016	60071	0	
Aroclor 1016	60071	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42785	0	
Aroclor 1232	42785	0	
Aroclor 1232	42785	0	
Aroclor 1232	42785	0	

Aroclor 1232	42785	0	
Aroclor 1242	60071	0	
Aroclor 1242	60071	0	
Aroclor 1242	60071	0	
Aroclor 1242	60071	0	
Aroclor 1242	60071	0	
Aroclor 1248	1223739	1237486	BA
Aroclor 1248	1223739	1237486	BA
Aroclor 1248	1223739	1237486	BA
Aroclor 1248	1223739	1237486	BA
Aroclor 1248	1223739	1237486	BA
Aroclor 1254	1161937	1191384	BA
Aroclor 1254	1161937	1191384	BA
Aroclor 1254	1161937	1191384	BA
Aroclor 1254	1161937	1191384	BA
Aroclor 1254	1161937	1191384	BA
Aroclor 1260	1453007	0	BA
Aroclor 1260	1453007	0	BA
Aroclor 1260	1453007	0	BA
Aroclor 1260	1453007	0	BA
Aroclor 1260	1453007	0	BA
Tetrachloro-m-xylene	5419857	5419857	
Decachlorobiphenyl	5200640	5200640	

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SAMPLE NO.

SW2-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157488003
Date Analyzed: 03/31/2018 01:50
Lab File ID: 033018.B\033018042.D
Initial wt/vol: 10.0216 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)	55.6	
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)	214	
11097-69-1	PCB-1254 (Aroclor 1254)	113	
11096-82-5	PCB-1260 (Aroclor 1260)	26.8	J
1336-36-3	PCB, Total	409	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018042.D
Lab Smp Id: 40157488003 Client Smp ID: SW2-170614-01-YP-03
Inj Date : 31-MAR-2018 01:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488003,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
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	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.154	10228	9169	0.896	0.01		
1.430	16781	13058	0.778	0.02		
1.535	10515	9050	0.861	0.01		
1.687	20758	14172	0.683	0.03		
1.805	25055	21515	0.859	0.04	1 Aroclor 1221	BA
2.171	13804	12673	0.918	0.02		
2.199	89971	40828	0.454	0.15		
2.291	18006	17272	0.959	0.03		
2.315	19896	15773	0.793	0.03		
2.410	235162	185768	0.790	0.39	1 Aroclor 1221	BA
2.485	10300984	9960760	0.967	17.79	$ 2 Tetrachloro-m-xylene	BA
2.685	19606	15915	0.812	0.03	1 Aroclor 1221	BA
2.788	51164	41280	0.807	0.08	1 Aroclor 1221	BA
2.851	142346	117185	0.823	0.23	1 Aroclor 1221	BA
2.976	69473	36033	0.519	0.11		
3.020	45327	44417	0.980	0.07		
3.055	277335	253249	0.913	0.46		
3.318	194206	188301	0.970	0.32		
3.344	292989	274905	0.938	0.49		
3.434	492012	463763	0.943	0.82		
3.519	523642	494749	0.945	0.87		
3.645	61615	54854	0.890	0.10		
3.732	289716	283687	0.979	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.755	122644	122382	0.998	0.20	
3.814	1277501	763472	0.598	2.13	
3.937	351346	277438	0.790	0.58	
3.993	323825	305083	0.942	0.54	
4.058	173228	156937	0.906	0.28	
4.137	46775	33580	0.718	0.07	
4.215	1767092	1578511	0.893	2.95	
4.261	1663446	1595132	0.959	2.78	6 Aroclor 1248
4.292	1723094	1413904	0.821	2.88	
4.346	38208	25066	0.656	0.06	
4.417	727961	680352	0.935	1.21	
4.452	569358	518075	0.910	0.95	
4.545	1381112	1284024	0.930	2.31	6 Aroclor 1248
4.589	132263	123264	0.932	0.22	
4.617	181381	149615	0.825	0.30	
4.682	126623	105660	0.834	0.21	
4.737	154172	115576	0.750	0.25	
4.767	265054	245291	0.925	0.44	
4.813	813307	765431	0.941	1.36	6 Aroclor 1248
4.848	681844	657836	0.965	1.14	
4.880	2331304	1241067	0.532	3.90	6 Aroclor 1248
4.956	505026	449960	0.891	0.84	
5.037	850812	783119	0.920	1.42	6 Aroclor 1248
5.101	943174	797081	0.845	1.57	
5.161	1294043	1130334	0.873	2.16	7 Aroclor 1254
5.212	948338	839795	0.886	1.58	
5.283	129893	119434	0.919	0.21	
5.309	254089	214389	0.844	0.42	
5.362	432291	367054	0.849	0.72	
5.406	895708	811257	0.906	1.49	7 Aroclor 1254
5.446	610739	506363	0.829	1.02	
5.480	163210	145875	0.894	0.27	
5.509	1680265	1509829	0.899	2.81	7 Aroclor 1254
5.575	97253	81811	0.841	0.16	
5.603	254368	208801	0.821	0.42	
5.675	523447	473657	0.905	0.87	
5.710	324379	255381	0.787	0.54	
5.742	348115	265001	0.761	0.58	
5.789	1927091	1520761	0.789	3.22	
5.839	78544	63244	0.805	0.13	
5.885	241248	175545	0.728	0.40	
5.931	195475	142150	0.727	0.32	
5.994	362152	323823	0.894	0.60	
6.025	992257	863939	0.871	1.66	7 Aroclor 1254
6.055	1057276	892054	0.844	1.76	
6.168	359524	201042	0.559	0.60	
6.227	104452	113429	1.086	0.17	
6.242	187680	133807	0.713	0.31	
6.300	1667167	1370448	0.822	2.78	7 Aroclor 1254
6.332	173187	155686	0.899	0.28	
6.373	103071	73001	0.708	0.17	
6.431	256747	197259	0.768	0.42	
6.510	670478	597871	0.892	1.12	
6.533	262172	241654	0.922	0.43	
6.559	141369	117856	0.834	0.23	
6.606	48411	34159	0.706	0.08	
6.660	55644	41545	0.747	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.717	212018	171785	0.810	0.35	
6.757	222768	186828	0.839	0.37	
6.800	228956	201524	0.880	0.38	
6.837	150814	105042	0.697	0.25	
6.910	33156	27340	0.825	0.05	
6.942	123138	108513	0.881	0.20	
7.004	344294	308456	0.896	0.57	8 Aroclor 1260
7.034	35424	43834	1.237	0.05	
7.122	36603	23030	0.629	0.06	
7.251	191114	170517	0.892	0.31	8 Aroclor 1260
7.280	97721	74301	0.760	0.16	
7.342	27141	17206	0.634	0.04	
7.388	207584	190469	0.918	0.34	
7.441	245751	205557	0.836	0.41	8 Aroclor 1260
7.579	12482	13016	1.043	0.02	
7.658	17582	17588	1.000	0.02	
7.692	40988	38142	0.931	0.06	
7.727	106708	90429	0.847	0.17	
7.764	15736	12781	0.812	0.02	
7.802	64265	34871	0.543	0.10	
7.860	9614	10548	1.097	0.01	
7.899	148651	120028	0.807	0.24	8 Aroclor 1260
7.964	24173	13088	0.541	0.04	
8.049	41737	37162	0.890	0.06	
8.273	251451	219921	0.875	0.42	
8.317	11478	8782	0.765	0.01	
8.377	29712	16957	0.571	0.04	
8.570	9530608	8237073	0.864	15.94	$ 12 Decachlorobiphenyl
8.718	10900	6414	0.588	0.01	
9.167	29600	27464	0.928	0.04	
9.463	27410	14991	0.547	0.04	
9.959	22965	15870	0.691	0.03	
	59763768	51714013		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018042.D
Lab Smp Id: 40157488003 Client Smp ID: SW2-170614-01-YP-03
Inj Date : 31-MAR-2018 01:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488003,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
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	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	25055	0.02406	12	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	235161	0.42925	210	0.00- 20.00	938.58	BA
2.685	2.688	-0.003	19606	0.01417	7.1	0.00- 20.00	78.25	BA
2.787	2.789	-0.002	51163	0.04627	23	0.00- 20.00	204.20	BA
2.850	2.851	-0.001	142346	0.04373	22	0.00- 20.00	568.13	BA
Average of Peak Concentrations =					56			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10300983	0.08355	42		(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	1663445	0.70997	350	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1381112	0.33277	170	0.00- 20.00	83.03	BA
4.812	4.812	0.000	813306	0.40063	200	0.00- 20.00	48.89	BA
4.879	4.879	0.000	2331303	0.46279	230	0.00- 20.00	140.15	BA
5.036	5.038	-0.002	850812	0.23709	120	0.00- 20.00	51.15	BA
Average of Peak Concentrations =					210			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1294043	0.24718	120	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	895707	0.20825	100	0.00- 20.00	69.22	BA
5.509	5.510	-0.001	1680264	0.21636	110	0.00- 20.00	129.85	BA
6.024	6.027	-0.003	992257	0.20376	100	0.00- 20.00	76.68	BA
6.300	6.299	0.001	1667166	0.25621	130	0.00- 20.00	128.83	BA
Average of Peak Concentrations =					110			
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	344293	0.03438	17	0.00- 20.00	22.75	CO
7.250	7.251	-0.001	191114	0.03998	20	0.00- 20.00	11.46	CO
7.441	7.443	-0.002	245751	0.08430	42	0.00- 20.00	14.74	CO
7.899	7.901	-0.002	148650	0.05633	28	0.00- 20.00	8.92	CO
Average of Peak Concentrations =					27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9530608	0.08699	43			

QC Flag Legend

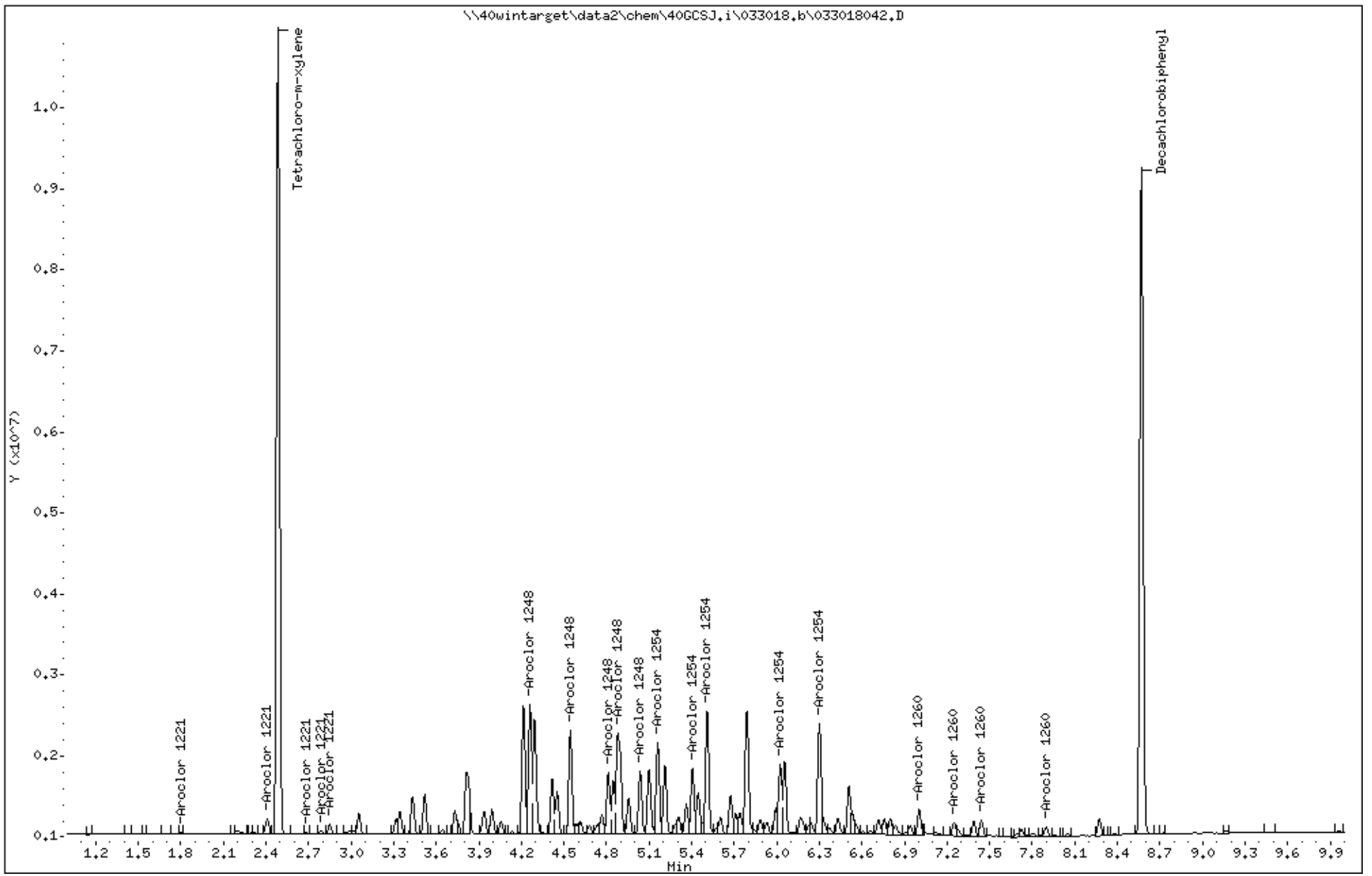
M - Compound response manually integrated.

Review Codes Legend

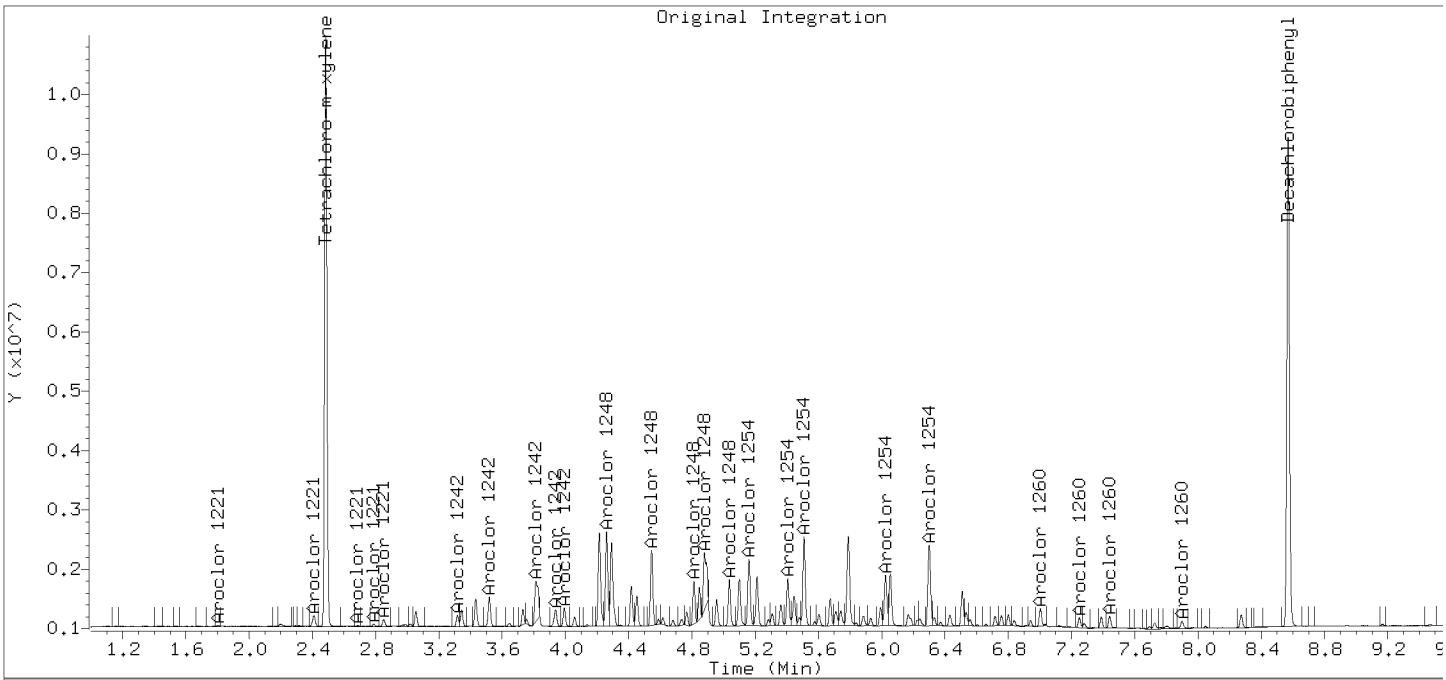
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

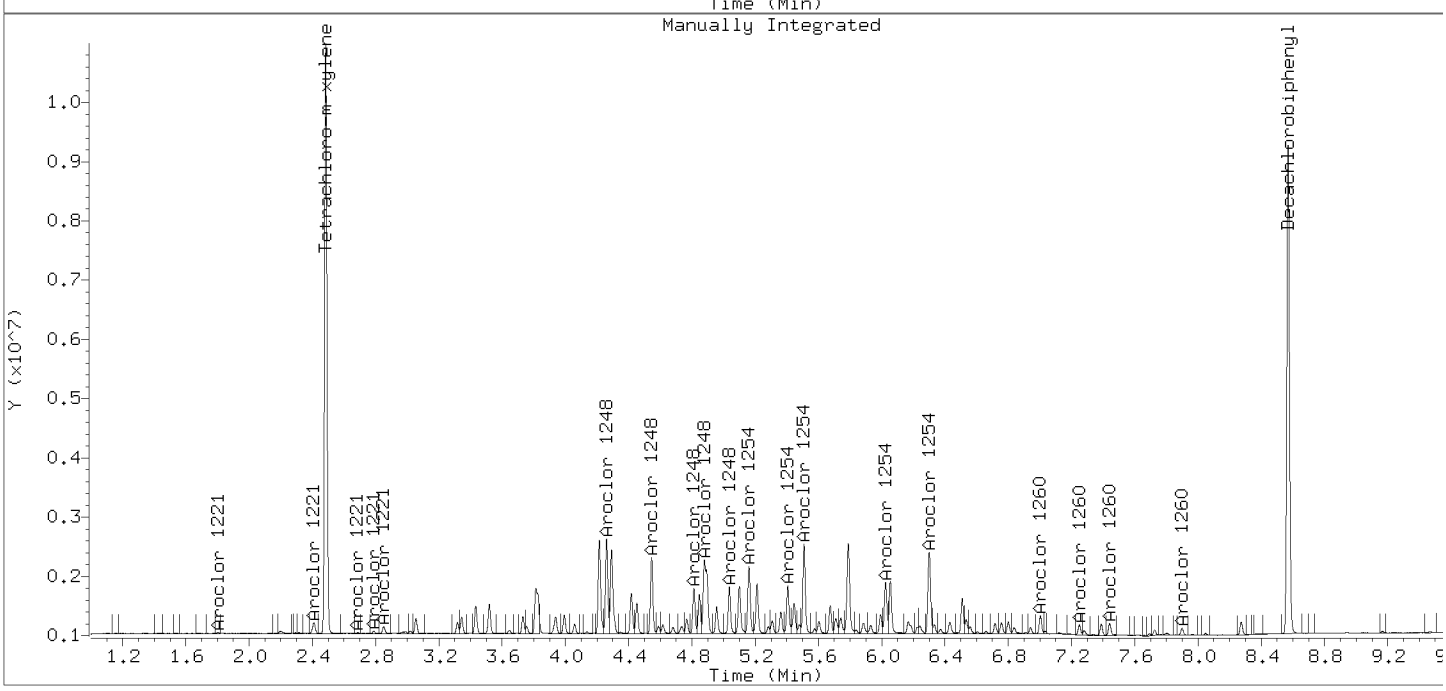
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018042.D
Date : 31-MAR-2018 01:50
Client ID: SW2-170614-01-YP-03
Sample Info: 40157488003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018042.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 01:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	191297	0	
Aroclor 1016	191297	0	
Aroclor 1016	191297	0	
Aroclor 1016	191297	0	
Aroclor 1016	191297	0	
Aroclor 1221	17900	25055	BA
Aroclor 1221	17900	25055	BA
Aroclor 1221	17900	25055	BA
Aroclor 1221	17900	25055	BA
Aroclor 1221	17900	25055	BA
Aroclor 1232	133773	0	
Aroclor 1232	133773	0	
Aroclor 1232	133773	0	
Aroclor 1232	133773	0	

Aroclor 1232	133773	0	
Aroclor 1242	191297	0	
Aroclor 1242	191297	0	
Aroclor 1242	191297	0	
Aroclor 1242	191297	0	
Aroclor 1242	191297	0	
Aroclor 1248	1651628	1663445	BA
Aroclor 1248	1651628	1663445	BA
Aroclor 1248	1651628	1663445	BA
Aroclor 1248	1651628	1663445	BA
Aroclor 1248	1651628	1663445	BA
Aroclor 1254	1246752	1294043	BA
Aroclor 1254	1246752	1294043	BA
Aroclor 1254	1246752	1294043	BA
Aroclor 1254	1246752	1294043	BA
Aroclor 1254	1246752	1294043	BA
Aroclor 1260	1618326	0	CO
Aroclor 1260	1618326	0	CO
Aroclor 1260	1618326	0	CO
Aroclor 1260	1618326	0	CO
Aroclor 1260	1618326	0	CO
Tetrachloro-m-xylene	10287107	10300983	BA
Decachlorobiphenyl	9530608	9530608	

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SAMPLE NO.

SW2-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157488004
Date Analyzed: 03/31/2018 02:06
Lab File ID: 033018.B\033018043.D
Initial wt/vol: 10.0282 Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	531	
11097-69-1	PCB-1254 (Aroclor 1254)	297	
11096-82-5	PCB-1260 (Aroclor 1260)	57.0	J
1336-36-3	PCB, Total	884	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018043.D
Lab Smp Id: 40157488004 Client Smp ID: SW2-170614-01-YP-02
Inj Date : 31-MAR-2018 02:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488004 x3,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	10.028	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.343	9638	7267	0.754	0.02		
2.005	9251	7708	0.833	0.02		
2.171	23346	11815	0.506	0.06		
2.411	80895	61329	0.758	0.21		
2.485	3552215	3333606	0.938	10.11	$ 2 Tetrachloro-m-xylene	
2.787	18478	14029	0.759	0.05		
2.854	32342	27260	0.843	0.08		
3.021	12808	14035	1.096	0.03		
3.054	69941	64414	0.921	0.18		
3.316	43049	39220	0.911	0.11		
3.344	69457	65383	0.941	0.18		
3.434	123821	111525	0.901	0.33		
3.520	133019	122314	0.920	0.36		
3.643	25057	20986	0.838	0.06		
3.731	163349	158193	0.968	0.44		
3.755	62212	60951	0.980	0.16		
3.826	895435	551176	0.616	2.42		
3.937	111043	76886	0.692	0.30		
3.994	159492	148975	0.934	0.43		
4.058	67262	58389	0.868	0.18		
4.214	1271266	1159939	0.912	3.44		
4.262	1274630	1225560	0.962	3.45	6 Aroclor 1248	BA
4.292	1240750	1060296	0.855	3.36		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	528536	508161	0.961	1.43	
4.452	405005	362313	0.895	1.09	
4.545	863013	801652	0.929	2.33	6 Aroclor 1248
4.589	83143	73870	0.888	0.22	
4.617	103911	91265	0.878	0.28	
4.679	82370	70431	0.855	0.22	
4.736	107515	72389	0.673	0.29	
4.768	201994	188050	0.931	0.54	
4.812	792585	770091	0.972	2.14	6 Aroclor 1248
4.847	737376	716755	0.972	1.99	
4.878	2025326	1290147	0.637	5.48	6 Aroclor 1248
4.957	296885	256709	0.865	0.80	
5.037	821623	774630	0.943	2.22	6 Aroclor 1248
5.101	624687	540928	0.866	1.69	
5.160	1188039	1076514	0.906	3.21	7 Aroclor 1254
5.212	871200	775119	0.890	2.36	
5.281	92362	89024	0.964	0.25	
5.308	178801	152438	0.853	0.48	
5.363	412530	362782	0.879	1.11	
5.406	769363	693530	0.901	2.08	7 Aroclor 1254
5.445	584173	486811	0.833	1.58	
5.478	88469	82375	0.931	0.23	
5.509	1445053	1282038	0.887	3.91	7 Aroclor 1254
5.576	56692	47628	0.840	0.15	
5.604	206304	171007	0.829	0.55	
5.674	329073	304943	0.927	0.89	
5.712	219922	163315	0.743	0.59	
5.741	272580	208900	0.766	0.73	
5.790	1776383	1392567	0.784	4.81	
5.885	169828	127519	0.751	0.46	
5.931	136496	89430	0.655	0.36	
5.992	299628	272469	0.909	0.81	
6.025	835671	741409	0.887	2.26	7 Aroclor 1254
6.055	931811	801073	0.860	2.52	
6.168	252556	171613	0.680	0.68	
6.227	87623	96894	1.106	0.23	
6.241	143885	115049	0.800	0.38	
6.300	1488017	1227499	0.825	4.03	7 Aroclor 1254
6.331	146291	130202	0.890	0.39	
6.373	86998	67734	0.779	0.23	
6.432	149735	117272	0.783	0.40	
6.509	531569	488286	0.919	1.44	
6.534	332737	241366	0.725	0.90	
6.604	56978	41702	0.732	0.15	
6.658	25363	25360	1.000	0.06	
6.717	126277	105842	0.838	0.34	
6.756	150121	123444	0.822	0.40	
6.800	190966	169582	0.888	0.51	
6.840	96588	68879	0.713	0.26	
6.909	19316	15072	0.780	0.05	
6.942	96634	86028	0.890	0.26	
7.003	326685	293771	0.899	0.88	8 Aroclor 1260
7.033	39371	36347	0.923	0.10	
7.124	21266	13877	0.653	0.05	
7.249	167304	148736	0.889	0.45	8 Aroclor 1260
7.280	69420	54883	0.791	0.18	
7.333	15337	10539	0.687	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.387	149912	135855	0.906	0.40	
7.442	138348	113987	0.824	0.37	8 Aroclor 1260
7.690	33476	32566	0.973	0.09	
7.726	53977	46311	0.858	0.14	
7.899	98363	83497	0.849	0.26	8 Aroclor 1260
8.048	31461	26035	0.828	0.08	
8.273	110431	100952	0.914	0.29	
8.376	18150	12735	0.702	0.04	
8.569	3549580	2914182	0.821	9.62	$ 12 Decachlorobiphenyl
8.941	26562	15869	0.597	0.07	
9.166	15129	12676	0.838	0.04	
9.464	21575	18119	0.840	0.05	
9.958	40562	27305	0.673	0.10	
	36895668	31629604		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018043.D
Lab Smp Id: 40157488004 Client Smp ID: SW2-170614-01-YP-02
Inj Date : 31-MAR-2018 02:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488004 x3,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	10.028	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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.485	2.484	0.001	3552214	0.02881	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1274630	0.54402	810	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	863013	0.20794	310	0.00- 20.00	67.71	BA
4.812	4.812	0.000	792585	0.39042	580	0.00- 20.00	62.18	BA
4.878	4.879	-0.001	2025326	0.40205	600	0.00- 20.00	158.90	BA
5.037	5.038	-0.001	821622	0.22896	340	0.00- 20.00	64.46	BA
Average of Peak Concentrations =					530			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1188039	0.22693	340	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	769363	0.17888	270	0.00- 20.00	64.76	BA
5.509	5.510	-0.001	1445052	0.18607	280	0.00- 20.00	121.63	BA
6.024	6.027	-0.003	835671	0.17161	260	0.00- 20.00	70.34	BA
6.300	6.299	0.001	1488016	0.22868	340	0.00- 20.00	125.25	BA
Average of Peak Concentrations =					300			
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
7.003	7.006	-0.003	326685	0.03262	49	0.00- 20.00	21.95	BA
7.249	7.251	-0.002	167303	0.03500	52	0.00- 20.00	11.24	BA
7.441	7.443	-0.002	138348	0.04746	71	0.00- 20.00	9.30	BA
7.899	7.901	-0.002	98363	0.03728	56	0.00- 20.00	6.61	BA
Average of Peak Concentrations =					57			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3549579	0.03240	48			

QC Flag Legend

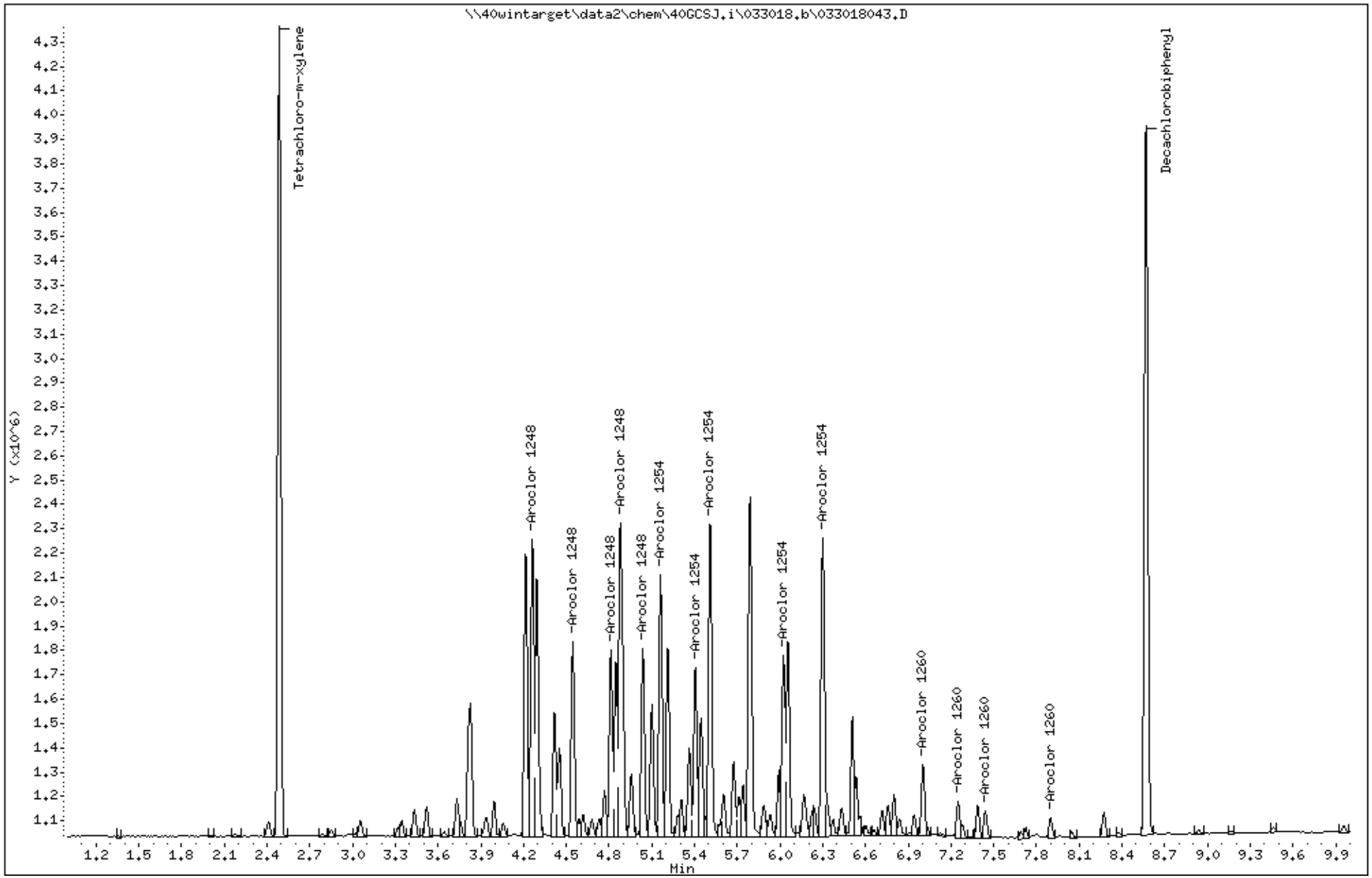
M - Compound response manually integrated.

Review Codes Legend

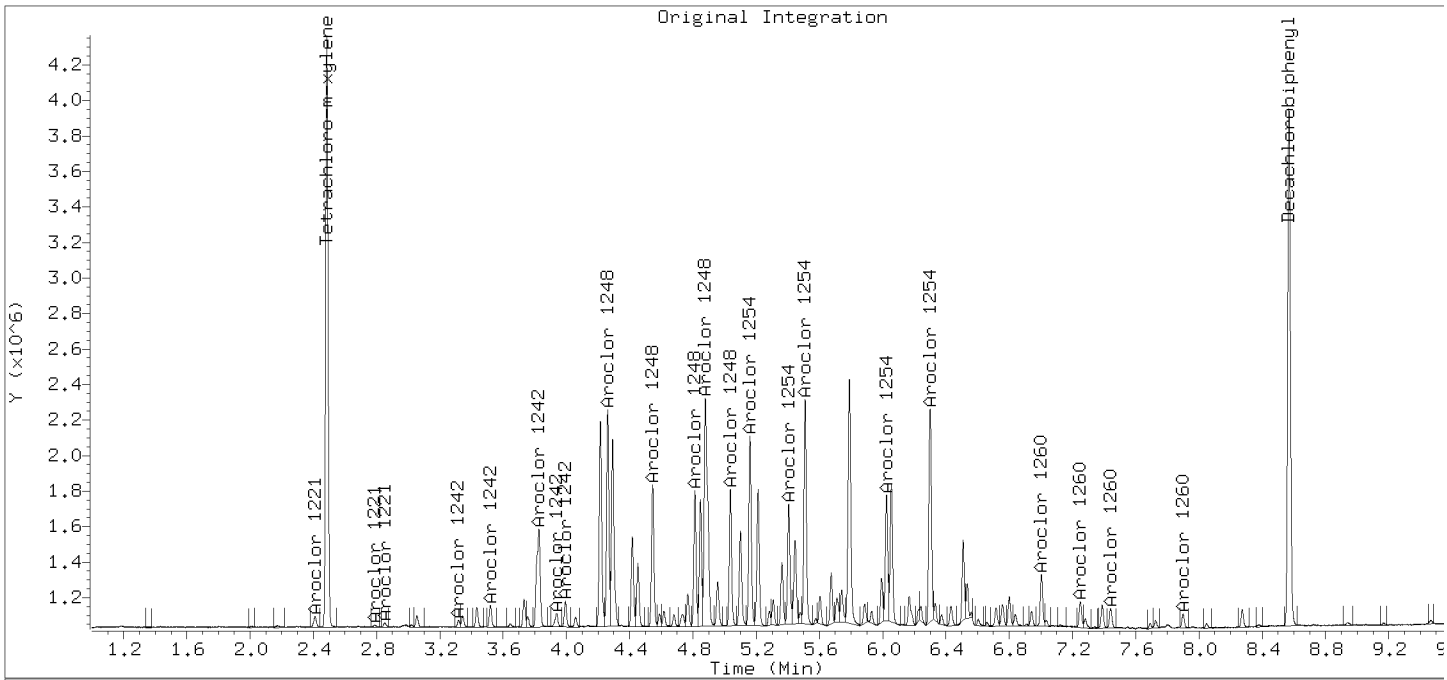
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

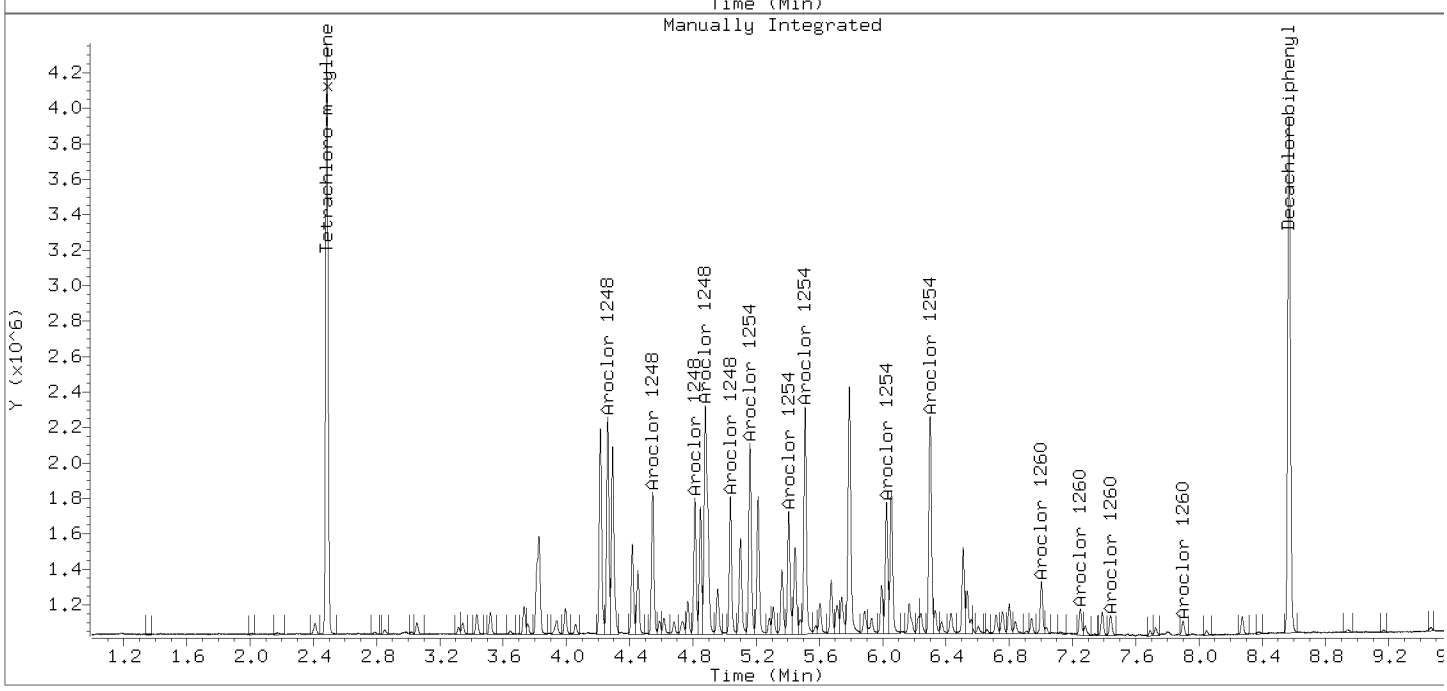
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018043.D
Date : 31-MAR-2018 02:06
Client ID: SW2-170614-01-YP-02
Sample Info: 40157488004 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018043.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 02:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43048	0	
Aroclor 1016	43048	0	
Aroclor 1016	43048	0	
Aroclor 1016	43048	0	
Aroclor 1016	43048	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32342	0	
Aroclor 1232	32342	0	
Aroclor 1232	32342	0	
Aroclor 1232	32342	0	

Aroclor 1232	32342	0	
Aroclor 1242	43048	0	
Aroclor 1242	43048	0	
Aroclor 1242	43048	0	
Aroclor 1242	43048	0	
Aroclor 1242	43048	0	
Aroclor 1248	1260788	1274630	BA
Aroclor 1248	1260788	1274630	BA
Aroclor 1248	1260788	1274630	BA
Aroclor 1248	1260788	1274630	BA
Aroclor 1248	1260788	1274630	BA
Aroclor 1254	1156316	1188039	BA
Aroclor 1254	1156316	1188039	BA
Aroclor 1254	1156316	1188039	BA
Aroclor 1254	1156316	1188039	BA
Aroclor 1254	1156316	1188039	BA
Aroclor 1260	1410427	0	BA
Aroclor 1260	1410427	0	BA
Aroclor 1260	1410427	0	BA
Aroclor 1260	1410427	0	BA
Aroclor 1260	1410427	0	BA
Tetrachloro-m-xylene	3552214	3552214	
Decachlorobiphenyl	3549579	3549579	

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SAMPLE NO.

SW2-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157488005
Date Analyzed: 03/31/2018 02:21
Lab File ID: 033018.B\033018044.D
Initial wt/vol: 9.9729 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)	35.6	J
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)	218	
11097-69-1	PCB-1254 (Aroclor 1254)	147	
11096-82-5	PCB-1260 (Aroclor 1260)	54.9	
1336-36-3	PCB, Total	456	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018044.D
Lab Smp Id: 40157488005 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 02:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488005,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.102	10414	8531	0.819	0.01		
1.182	20752	12687	0.611	0.03		
1.806	14766	10558	0.715	0.02	1 Aroclor 1221	BA
2.199	109951	48973	0.445	0.16		
2.411	153359	124594	0.812	0.23	1 Aroclor 1221	BA
2.485	10030275	9537475	0.951	15.80	$ 2 Tetrachloro-m-xylene	BA
2.684	15518	9499	0.612	0.02	1 Aroclor 1221	BA
2.788	38214	25767	0.674	0.05	1 Aroclor 1221	BA
2.852	49573	38971	0.786	0.07	1 Aroclor 1221	BA
2.975	50102	24223	0.483	0.07		
3.019	29515	26746	0.906	0.04		
3.055	150312	139091	0.925	0.22		
3.317	72978	68354	0.937	0.11		
3.345	100697	85771	0.852	0.15		
3.398	16784	15291	0.911	0.02		
3.433	209637	192673	0.919	0.31		
3.519	256977	243256	0.947	0.39		
3.646	40437	30224	0.747	0.06		
3.697	14164	10563	0.746	0.02		
3.732	212795	206822	0.972	0.32		
3.755	81317	79410	0.977	0.12		
3.826	1105110	653750	0.592	1.68		
3.938	166194	132600	0.798	0.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	230077	213610	0.928	0.35	
4.058	113952	96724	0.849	0.17	
4.137	19215	16484	0.858	0.02	
4.214	1624859	1508093	0.928	2.47	
4.260	1602925	1498074	0.935	2.44	6 Aroclor 1248
4.292	1814821	1515575	0.835	2.76	
4.344	28485	20019	0.703	0.04	
4.417	589150	562894	0.955	0.89	
4.452	516435	477131	0.924	0.78	
4.545	1222469	1153380	0.943	1.86	6 Aroclor 1248
4.588	162205	149313	0.921	0.24	
4.617	130858	117952	0.901	0.19	
4.680	145396	132475	0.911	0.22	
4.736	187516	152695	0.814	0.28	
4.767	329239	311572	0.946	0.50	
4.812	972480	926769	0.953	1.48	6 Aroclor 1248
4.847	811501	786862	0.970	1.23	
4.878	2451541	1448108	0.591	3.73	6 Aroclor 1248
4.956	521367	465926	0.894	0.79	
5.036	832609	800000	0.961	1.26	6 Aroclor 1248
5.101	1021639	890395	0.872	1.55	
5.161	1649097	1464631	0.888	2.51	7 Aroclor 1254
5.212	1311769	1165747	0.889	1.99	
5.283	170310	163790	0.962	0.25	
5.307	302974	248076	0.819	0.46	
5.362	486468	431848	0.888	0.74	
5.406	1054118	952805	0.904	1.60	7 Aroclor 1254
5.446	891138	728546	0.818	1.35	
5.478	156209	142655	0.913	0.23	
5.509	1937898	1716765	0.886	2.95	7 Aroclor 1254
5.576	130251	119640	0.919	0.19	
5.604	266206	226422	0.851	0.40	
5.674	656275	610225	0.930	0.99	
5.708	343446	267982	0.780	0.52	
5.741	484226	367979	0.760	0.73	
5.789	2575045	2055528	0.798	3.92	
5.885	261894	200257	0.765	0.39	
5.930	278526	226558	0.813	0.42	
5.992	599287	553081	0.923	0.91	
6.023	1184202	1011894	0.854	1.80	7 Aroclor 1254
6.055	1685815	1473428	0.874	2.56	
6.118	32020	17423	0.544	0.04	
6.167	424354	269900	0.636	0.64	
6.227	154829	171176	1.106	0.23	
6.241	253470	201351	0.794	0.38	
6.300	2681488	2152578	0.803	4.08	7 Aroclor 1254
6.331	255635	221952	0.868	0.38	
6.374	121260	97213	0.802	0.18	
6.431	383565	318552	0.831	0.58	
6.509	1063806	922515	0.867	1.62	
6.533	438954	417329	0.951	0.66	
6.559	212972	192623	0.904	0.32	
6.604	97788	69451	0.710	0.14	
6.659	52842	46119	0.873	0.08	
6.716	239621	203491	0.849	0.36	
6.756	308001	268064	0.870	0.46	
6.801	352983	314045	0.890	0.53	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.838	218326	173146	0.793	0.33	
6.912	43534	43220	0.993	0.06	
6.941	194493	181682	0.934	0.29	
7.003	770958	722733	0.937	1.17	8 Aroclor 1260
7.034	84782	81360	0.960	0.12	
7.076	19503	15865	0.813	0.02	
7.120	36096	26840	0.744	0.05	
7.250	385951	341860	0.886	0.58	8 Aroclor 1260
7.280	147473	118481	0.803	0.22	
7.339	17291	17423	1.008	0.02	
7.388	489078	411186	0.841	0.74	
7.441	460080	404215	0.879	0.70	8 Aroclor 1260
7.548	23825	21942	0.921	0.03	
7.689	97827	98470	1.007	0.14	
7.725	172761	151839	0.879	0.26	
7.798	95921	54002	0.563	0.14	
7.899	322179	280345	0.870	0.49	8 Aroclor 1260
7.959	48431	26404	0.545	0.07	
8.049	29226	22593	0.773	0.04	
8.273	428773	385077	0.898	0.65	
8.377	22629	16581	0.733	0.03	
8.570	9605759	8254869	0.859	14.62	$ 12 Decachlorobiphenyl
8.721	13928	13313	0.956	0.02	
8.941	20229	14283	0.706	0.03	
9.051	14372	8751	0.609	0.02	
9.168	65565	55176	0.842	0.09	
9.461	28076	17585	0.626	0.04	
9.958	31817	21072	0.662	0.04	
	65666206	56961832		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018044.D
Lab Smp Id: 40157488005 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 02:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488005,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
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	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			
1.805	1.804	0.001	14765	0.01418	7.1	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	153358	0.27993	140	0.00- 20.00	1038.66	BA
2.683	2.688	-0.005	15518	0.01122	5.6	0.00- 20.00	105.10	BA
2.788	2.789	-0.001	38213	0.03456	17	0.00- 20.00	258.81	BA
2.851	2.851	0.000	49573	0.01523	7.6	0.00- 20.00	335.75	BA
Average of Peak Concentrations =					36			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10030275	0.08135	41		(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	1602925	0.68414	340	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1222468	0.29455	150	0.00- 20.00	76.26	BA
4.811	4.812	-0.001	972480	0.47904	240	0.00- 20.00	60.67	BA
4.877	4.879	-0.002	2451541	0.48666	240	0.00- 20.00	152.94	BA
5.036	5.038	-0.002	832608	0.23202	120	0.00- 20.00	51.94	BA
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1649096	0.31500	160	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1054118	0.24508	120	0.00- 20.00	63.92	BA
5.508	5.510	-0.002	1937898	0.24953	120	0.00- 20.00	117.51	BA
6.023	6.027	-0.004	1184201	0.24318	120	0.00- 20.00	71.81	BA
6.299	6.299	0.000	2681487	0.41209	210	0.00- 20.00	162.60	BA
Average of Peak Concentrations =					150			
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
7.002	7.006	-0.004	770958	0.07699	38	0.00- 20.00	28.75	BA
7.249	7.251	-0.002	385950	0.08075	40	0.00- 20.00	14.39	BA
7.441	7.443	-0.002	460079	0.15783	79	0.00- 20.00	17.16	BA
7.898	7.901	-0.003	322178	0.12210	61	0.00- 20.00	12.01	BA
Average of Peak Concentrations =					55			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9605758	0.08768	44			

QC Flag Legend

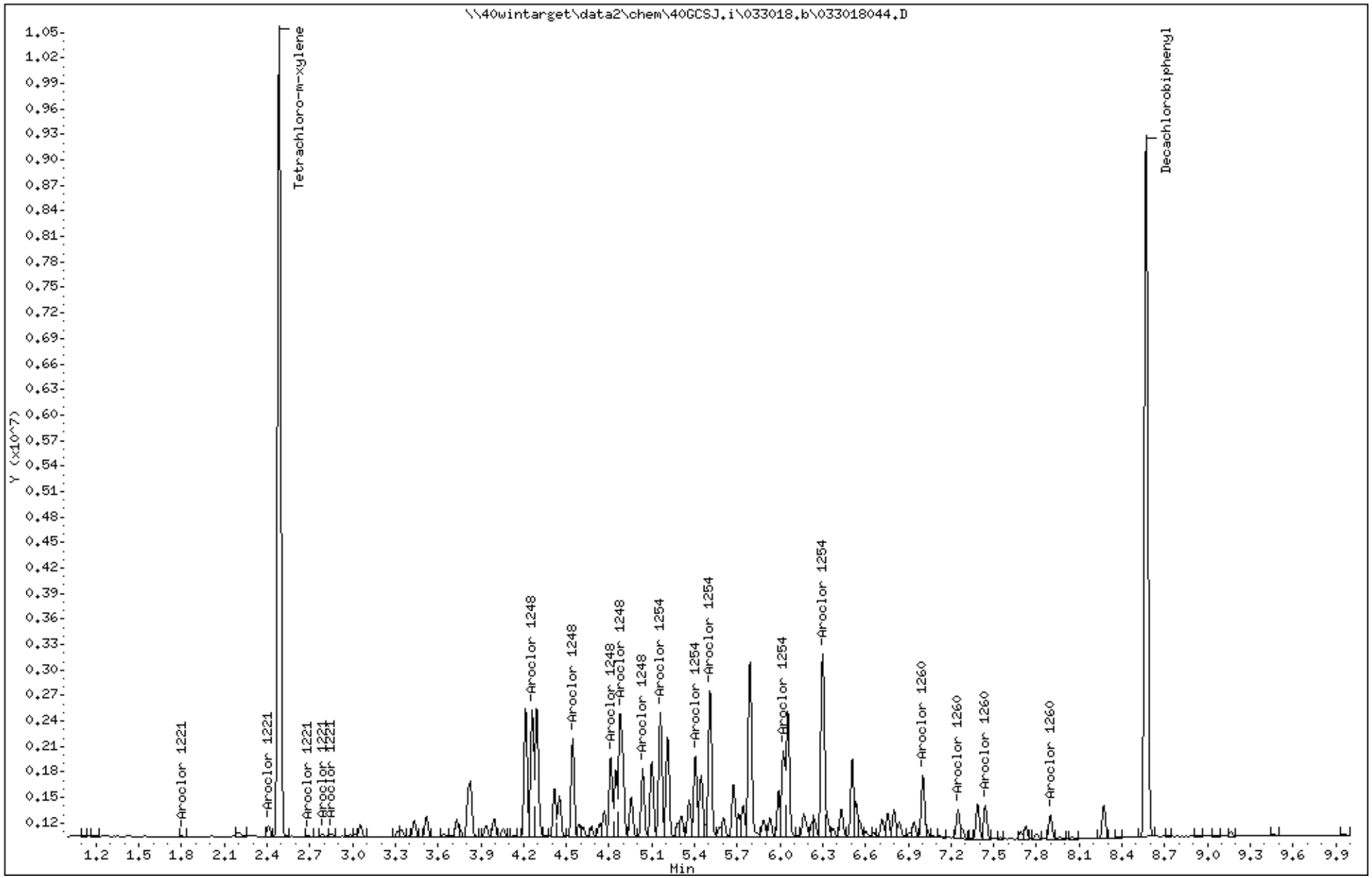
M - Compound response manually integrated.

Review Codes Legend

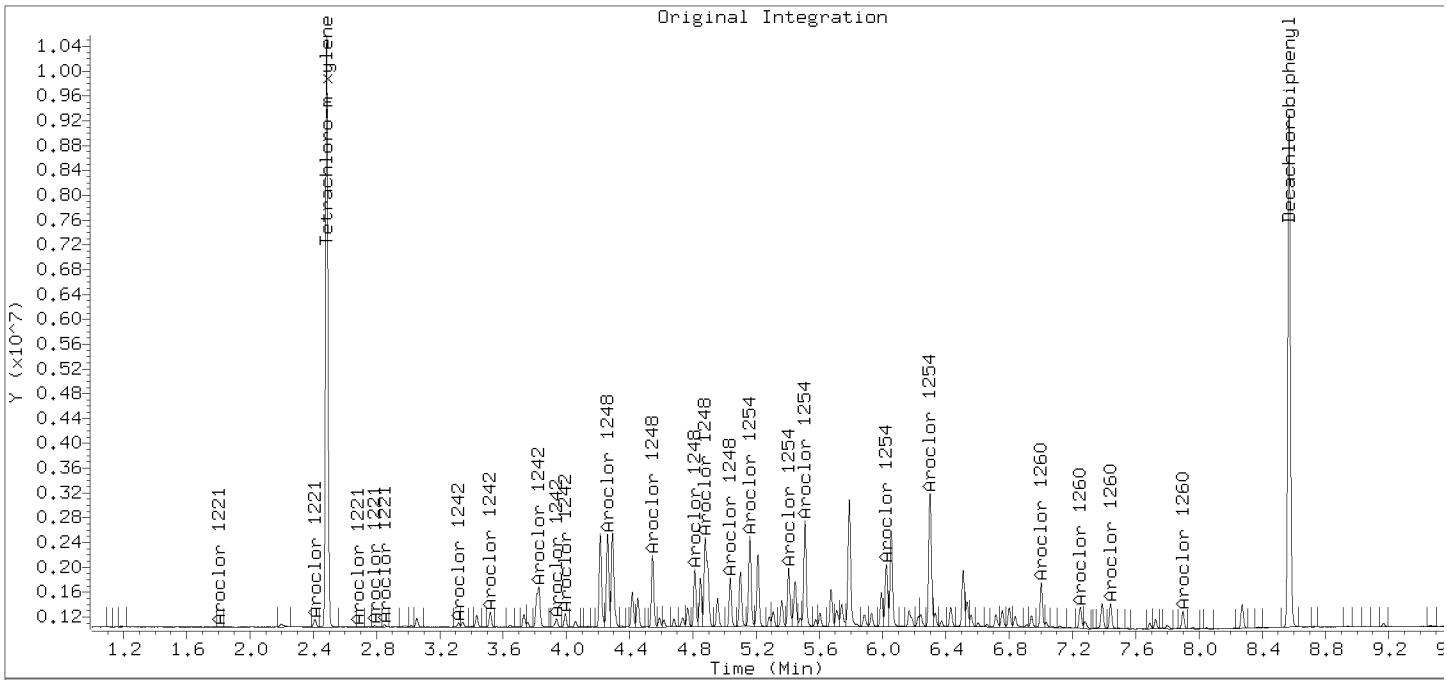
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

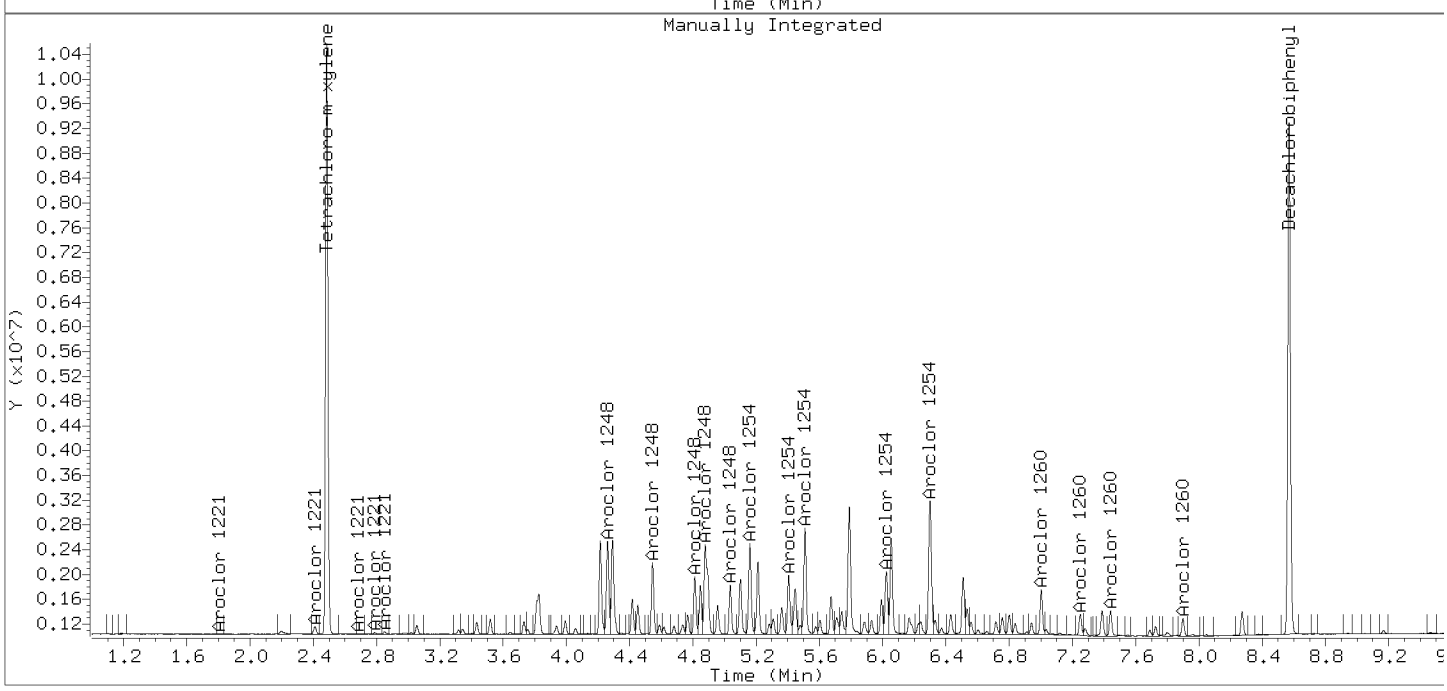
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018044.D
Date : 31-MAR-2018 02:21
Client ID: SW2-170614-01-YP-01
Sample Info: 40157488005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018044.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 02:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	71973	0	
Aroclor 1016	71973	0	
Aroclor 1016	71973	0	
Aroclor 1016	71973	0	
Aroclor 1016	71973	0	
Aroclor 1221	13166	14765	BA
Aroclor 1221	13166	14765	BA
Aroclor 1221	13166	14765	BA
Aroclor 1221	13166	14765	BA
Aroclor 1221	13166	14765	BA
Aroclor 1232	41904	0	
Aroclor 1232	41904	0	
Aroclor 1232	41904	0	
Aroclor 1232	41904	0	

Aroclor 1232	41904	0	
Aroclor 1242	71973	0	
Aroclor 1242	71973	0	
Aroclor 1242	71973	0	
Aroclor 1242	71973	0	
Aroclor 1242	71973	0	
Aroclor 1248	1594060	1602925	BA
Aroclor 1248	1594060	1602925	BA
Aroclor 1248	1594060	1602925	BA
Aroclor 1248	1594060	1602925	BA
Aroclor 1248	1594060	1602925	BA
Aroclor 1254	1600734	1649096	BA
Aroclor 1254	1600734	1649096	BA
Aroclor 1254	1600734	1649096	BA
Aroclor 1254	1600734	1649096	BA
Aroclor 1254	1600734	1649096	BA
Aroclor 1260	2655346	0	BA
Aroclor 1260	2655346	0	BA
Aroclor 1260	2655346	0	BA
Aroclor 1260	2655346	0	BA
Aroclor 1260	2655346	0	BA
Tetrachloro-m-xylene	10017383	10030275	BA
Decachlorobiphenyl	9605758	9605758	

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SAMPLE NO.

SW2-170614-01-SMB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157488006
Date Analyzed: 04/11/2018 15:51
Lab File ID: 041118.B\041118009.D
Initial wt/vol: 9.9671 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ 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)	1130	
11097-69-1	PCB-1254 (Aroclor 1254)	999	
11096-82-5	PCB-1260 (Aroclor 1260)	294	
1336-36-3	PCB, Total	2420	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118009.D
Lab Smp Id: 40157488006 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 15:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488006 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.967	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	75515	56350	0.746	0.12		
2.485	2364102	2151034	0.910	4.03	$ 2 Tetrachloro-m-xylene	
2.791	15244	12710	0.834	0.02		
2.853	28650	25184	0.879	0.04		
3.019	13584	12189	0.897	0.02		
3.056	107728	95434	0.886	0.18		
3.317	64511	61038	0.946	0.11		
3.346	86727	79144	0.913	0.14		
3.433	138901	133127	0.958	0.23		
3.519	164739	147993	0.898	0.28		
3.646	23109	19077	0.826	0.03		
3.731	174563	169624	0.972	0.29		
3.754	72430	68797	0.950	0.12		
3.815	338477	395484	1.168	0.57		
3.826	452812	434014	0.958	0.77		
3.938	187081	151060	0.807	0.31		
3.994	167433	154306	0.922	0.28		
4.060	84120	74835	0.890	0.14		
4.135	23121	16555	0.716	0.03		
4.215	1515296	1382648	0.912	2.58		
4.261	1657871	1513982	0.913	2.83	6 Aroclor 1248	BA
4.292	1938619	1613259	0.832	3.30		
4.344	25081	17633	0.703	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	529444	505250	0.954	0.90	
4.453	485584	434274	0.894	0.82	
4.547	1150299	1079529	0.938	1.96	6 Aroclor 1248
4.588	179772	165659	0.921	0.30	
4.618	107606	96779	0.899	0.18	
4.680	176891	157031	0.888	0.30	
4.736	236424	187828	0.794	0.40	
4.769	329577	311326	0.945	0.56	
4.813	1029896	988713	0.960	1.75	6 Aroclor 1248
4.848	789794	744812	0.943	1.34	
4.880	2664131	1455415	0.546	4.54	6 Aroclor 1248
4.956	673693	585645	0.869	1.15	
5.037	837736	772408	0.922	1.43	6 Aroclor 1248
5.101	1233281	1072270	0.869	2.10	
5.162	2225934	1867532	0.839	3.80	7 Aroclor 1254
5.212	1795153	1555720	0.867	3.06	
5.283	206038	204555	0.993	0.35	
5.307	346955	292235	0.842	0.59	
5.363	671407	600824	0.895	1.14	
5.406	1462925	1276325	0.872	2.49	7 Aroclor 1254
5.447	1198263	1016249	0.848	2.04	
5.479	199954	193892	0.970	0.34	
5.510	2472251	2091986	0.846	4.22	7 Aroclor 1254
5.576	167596	158147	0.944	0.28	
5.604	327299	277498	0.848	0.55	
5.676	818655	769275	0.940	1.39	
5.710	453919	342111	0.754	0.77	
5.741	626191	495181	0.791	1.06	
5.791	3614868	2708330	0.749	6.17	
5.886	357206	251823	0.705	0.60	
5.931	343156	274263	0.799	0.58	
5.994	790169	724656	0.917	1.34	
6.025	1593253	1348638	0.846	2.72	7 Aroclor 1254
6.055	2502331	2118703	0.847	4.27	
6.169	586053	390976	0.667	1.00	
6.227	192807	242886	1.260	0.32	
6.241	389453	286368	0.735	0.66	
6.300	3776264	3073668	0.814	6.97	7 Aroclor 1254
6.333	377270	341581	0.905	0.64	
6.372	184911	145447	0.787	0.31	
6.432	422419	345864	0.819	0.72	
6.510	1127957	1009594	0.895	1.92	
6.536	720073	616085	0.856	1.22	
6.559	285267	260758	0.914	0.48	
6.605	137475	109854	0.799	0.23	
6.660	69330	61261	0.884	0.11	
6.718	332883	289427	0.869	0.56	
6.758	369233	319047	0.864	0.63	
6.801	485385	423927	0.873	0.82	
6.839	228282	170771	0.748	0.38	
6.911	53220	47090	0.885	0.09	
6.943	217712	194656	0.894	0.37	
7.003	985185	911359	0.925	1.68	8 Aroclor 1260
7.036	109716	97801	0.891	0.18	
7.076	25648	22820	0.890	0.04	
7.123	46475	32491	0.699	0.07	
7.250	513795	466550	0.908	0.87	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.280	174804	145823	0.834	0.29	
7.333	11948	8962	0.750	0.02	
7.389	453170	381810	0.843	0.77	
7.442	433623	368060	0.849	0.74	8 Aroclor 1260
7.552	33344	24229	0.727	0.05	
7.691	110301	97101	0.880	0.18	
7.726	112213	93870	0.837	0.19	
7.800	62488	38363	0.614	0.10	
7.900	299951	256269	0.854	0.51	8 Aroclor 1260
7.960	37433	26807	0.716	0.06	
8.050	54746	39431	0.720	0.09	
8.169	9474	9211	0.972	0.01	
8.273	265034	234291	0.884	0.45	
8.378	20985	14738	0.702	0.03	
8.460	11927	10043	0.842	0.02	
8.570	2352317	1963665	0.835	4.01	$ 12 Decachlorobiphenyl
8.731	23015	11709	0.509	0.03	
8.938	18551	15337	0.827	0.03	
8.997	14847	8898	0.599	0.02	
9.054	12673	9509	0.750	0.02	
9.169	34243	29042	0.848	0.05	
9.467	35846	20902	0.583	0.06	
9.959	33023	20959	0.635	0.05	
	58570131	49599669		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118009.D
Lab Smp Id: 40157488006 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 15:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488006 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.967	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	2364101	0.01917	48			

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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			
4.261	4.261	0.000	1657871	0.70759	1800	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1150299	0.27716	700	0.00- 20.00	69.38	BA
4.812	4.812	0.000	1029895	0.50732	1300	0.00- 20.00	62.12	BA
4.879	4.879	0.000	2664130	0.52887	1300	0.00- 20.00	160.70	BA
5.036	5.038	-0.002	837736	0.23345	580	0.00- 20.00	50.53	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2225933	0.42518	1100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1462924	0.34013	850	0.00- 20.00	65.72	BA
5.509	5.510	-0.001	2472251	0.31834	800	0.00- 20.00	111.07	BA
6.025	6.027	-0.002	1593252	0.32718	820	0.00- 20.00	71.58	BA
6.300	6.299	0.001	3776264	0.58033	1400	0.00- 20.00	169.65	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
7.003	7.006	-0.003	985184	0.09838	250	0.00- 20.00	26.09	BA
7.250	7.251	-0.001	513794	0.10749	270	0.00- 20.00	13.61	BA
7.442	7.443	-0.001	433622	0.14875	370	0.00- 20.00	11.48	BA
7.899	7.901	-0.002	299951	0.11367	280	0.00- 20.00	7.94	BA
Average of Peak Concentrations =					290			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2352317	0.02147	54			

QC Flag Legend

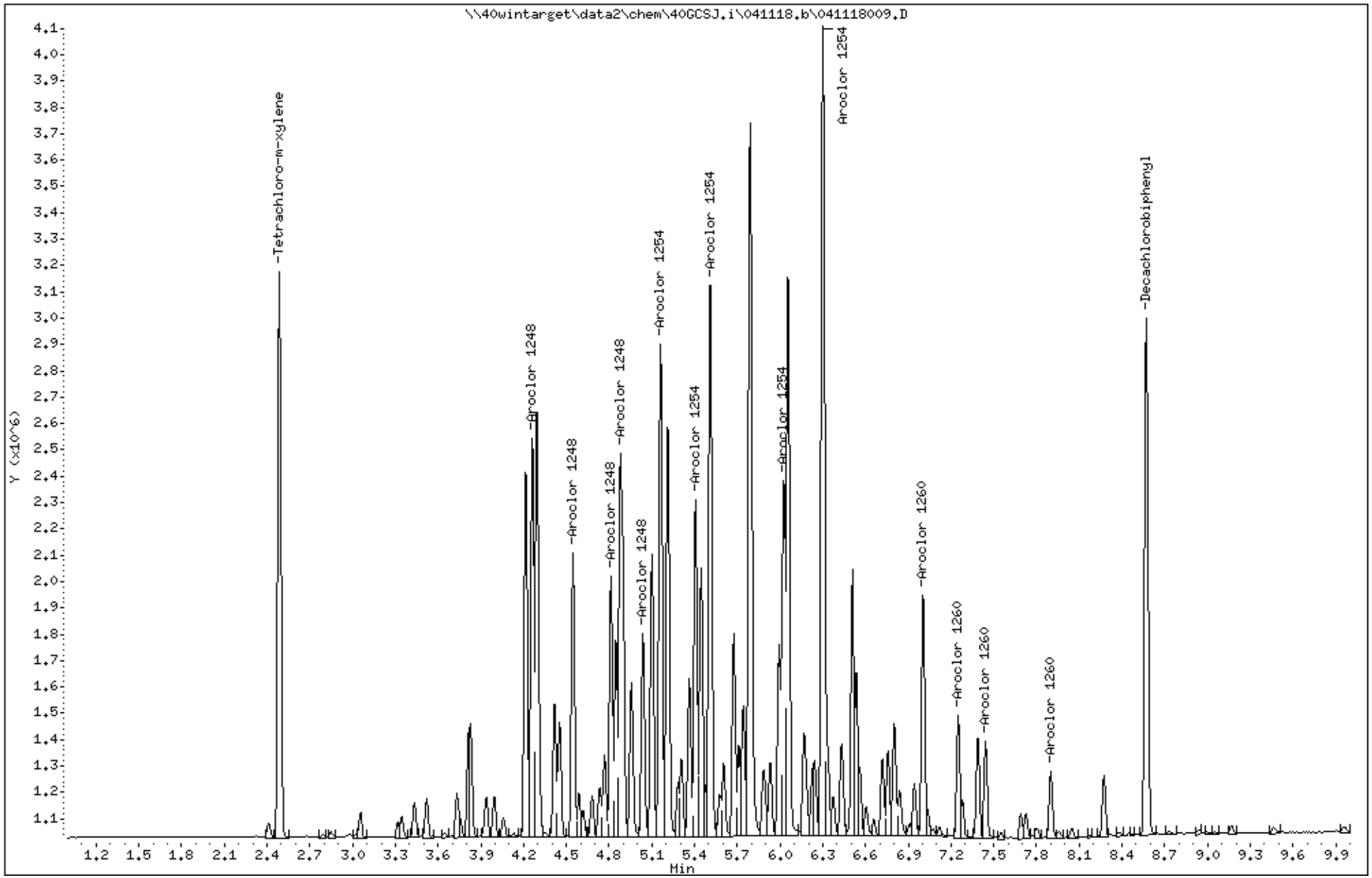
M - Compound response manually integrated.

Review Codes Legend

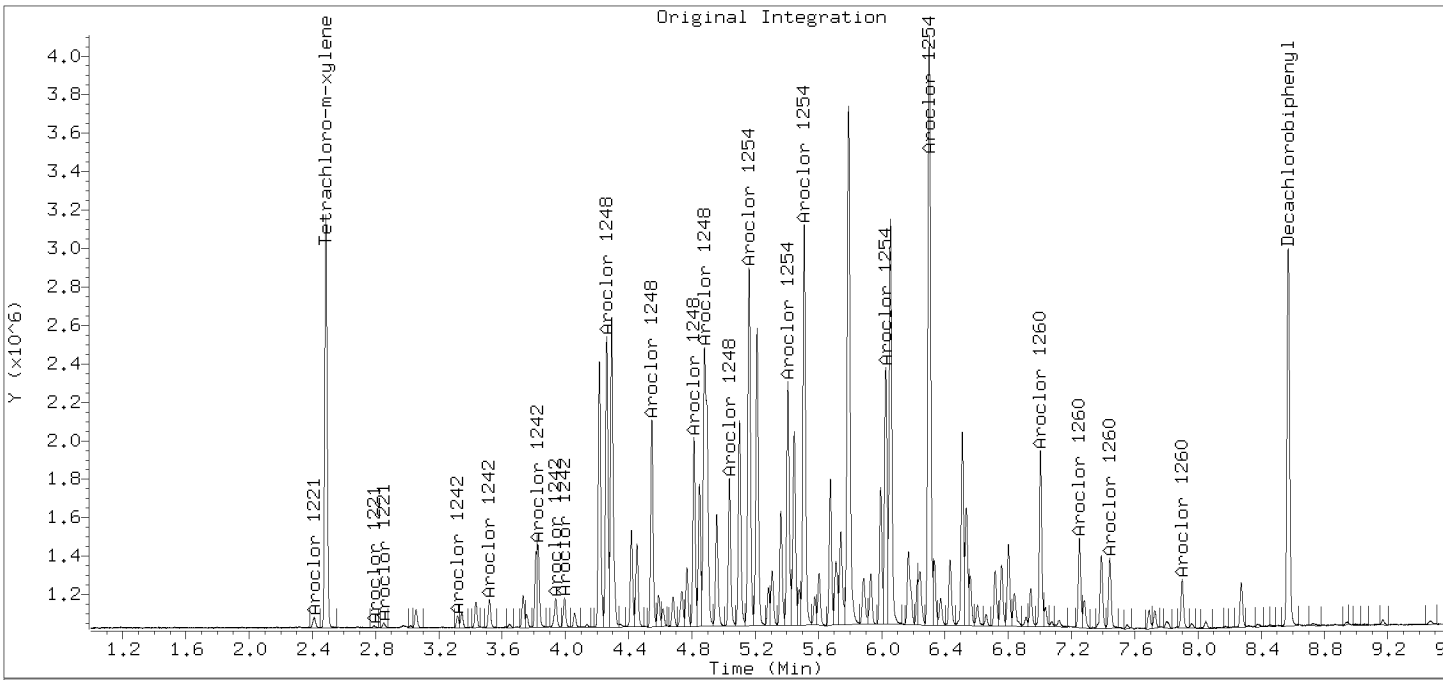
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

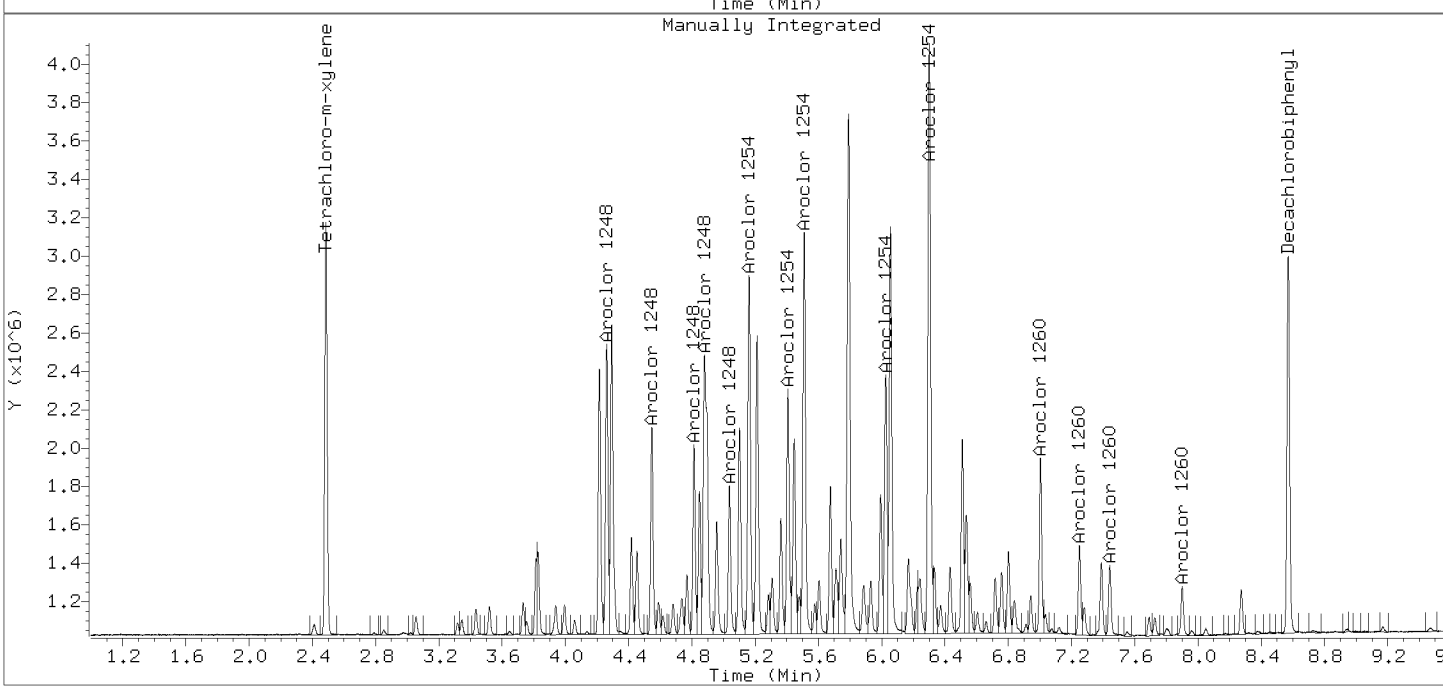
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118009.D
Date : 11-APR-2018 15:51
Client ID: SW2-170614-01-SMB-0
Sample Info: 40157488006 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 15:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64511	0	
Aroclor 1016	64511	0	
Aroclor 1016	64511	0	
Aroclor 1016	64511	0	
Aroclor 1016	64511	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	28650	0	
Aroclor 1232	28650	0	
Aroclor 1232	28650	0	
Aroclor 1232	28650	0	

Aroclor 1232	28650	0	
Aroclor 1242	64511	0	
Aroclor 1242	64511	0	
Aroclor 1242	64511	0	
Aroclor 1242	64511	0	
Aroclor 1242	64511	0	
Aroclor 1248	1651607	1657871	BA
Aroclor 1248	1651607	1657871	BA
Aroclor 1248	1651607	1657871	BA
Aroclor 1248	1651607	1657871	BA
Aroclor 1248	1651607	1657871	BA
Aroclor 1254	2202934	2225933	BA
Aroclor 1254	2202934	2225933	BA
Aroclor 1254	2202934	2225933	BA
Aroclor 1254	2202934	2225933	BA
Aroclor 1254	2202934	2225933	BA
Aroclor 1260	3753290	0	BA
Aroclor 1260	3753290	0	BA
Aroclor 1260	3753290	0	BA
Aroclor 1260	3753290	0	BA
Aroclor 1260	3753290	0	BA
Tetrachloro-m-xylene	2364101	2364101	
Decachlorobiphenyl	2352317	2352317	

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SAMPLE NO.

SW2-170614-01-LMB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157488007
Date Analyzed: 04/02/2018 20:45
Lab File ID: 040218.B\040218025.D
Initial wt/vol: 10.0031 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.0	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	1110	
11097-69-1	PCB-1254 (Aroclor 1254)	1020	
11096-82-5	PCB-1260 (Aroclor 1260)	375	
1336-36-3	PCB, Total	2500	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218025.D
Lab Smp Id: 40157488007 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 20:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488007 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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) * CpndV

Name	Value	Description
DF	5.000	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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.407	16116	11182	0.694	0.02		1 Aroclor 1221	
2.485	1654069	1530749	0.925	2.77	$	2 Tetrachloro-m-xylene	
2.784	10567	7512	0.711	0.01		1 Aroclor 1221	
2.851	19995	16877	0.844	0.03		1 Aroclor 1221	
2.973	10516	8139	0.774	0.01			
3.055	38666	31825	0.823	0.06			
3.319	54137	53056	0.980	0.09			
3.345	74733	65531	0.877	0.12			
3.434	122873	112977	0.919	0.20			
3.519	124676	111392	0.893	0.20			
3.646	34151	27186	0.796	0.05			
3.732	196503	189273	0.963	0.33			
3.755	79281	76168	0.961	0.13			
3.815	350946	410813	1.171	0.58			
3.827	470385	434869	0.924	0.79			
3.938	195873	156901	0.801	0.32			
3.994	151370	140060	0.925	0.25			
4.058	78736	70782	0.899	0.13			
4.135	15788	12495	0.791	0.02			
4.214	1617678	1458313	0.901	2.71			
4.260	1758846	1634997	0.930	2.95		6 Aroclor 1248	BA
4.292	2218919	1853465	0.835	3.72			
4.348	22814	23099	1.013	0.03			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	412412	385807	0.935	0.69	
4.452	421793	381059	0.903	0.70	
4.545	1163099	1075222	0.924	1.95	6 Aroclor 1248
4.589	230816	208684	0.904	0.38	
4.616	90737	80609	0.888	0.15	
4.680	222496	198596	0.893	0.37	
4.736	275012	224937	0.818	0.46	
4.767	386512	365391	0.945	0.64	
4.812	1019913	959166	0.940	1.71	6 Aroclor 1248
4.848	674631	634258	0.940	1.13	
4.879	2474029	1344631	0.543	4.15	6 Aroclor 1248
4.956	681463	597194	0.876	1.14	
5.036	718961	645553	0.898	1.20	6 Aroclor 1248
5.101	1319521	1155759	0.876	2.21	
5.161	2320794	1965191	0.847	3.89	7 Aroclor 1254
5.211	1965281	1717249	0.874	3.30	
5.284	247669	243331	0.982	0.41	
5.306	383292	311434	0.813	0.64	
5.362	598744	539055	0.900	1.00	
5.406	1413617	1245827	0.881	2.37	7 Aroclor 1254
5.446	1240161	1024197	0.826	2.08	
5.509	2467368	1994736	0.808	4.14	7 Aroclor 1254
5.576	197236	182760	0.927	0.33	
5.603	257967	218815	0.848	0.43	
5.675	874926	805668	0.921	1.46	
5.711	303137	232597	0.767	0.50	
5.742	715096	534686	0.748	1.20	
5.790	3788970	2797729	0.738	6.36	
5.886	311538	234023	0.751	0.52	
5.931	403101	319128	0.792	0.67	
5.993	951449	870758	0.915	1.59	
6.025	1412593	1230791	0.871	2.37	7 Aroclor 1254
6.055	2850883	2404975	0.844	4.78	
6.168	485812	381044	0.784	0.81	
6.226	240756	261584	1.087	0.40	
6.241	333217	274647	0.824	0.55	
6.300	4252456	3472748	0.817	7.61	7 Aroclor 1254
6.332	390095	352046	0.902	0.65	
6.374	168827	140139	0.830	0.28	
6.431	414284	342346	0.826	0.69	
6.509	1431443	1282935	0.896	2.40	
6.536	732802	652816	0.891	1.23	
6.560	329051	305777	0.929	0.55	
6.603	150049	123015	0.820	0.25	
6.659	64596	60171	0.931	0.10	
6.717	280818	244039	0.869	0.47	
6.758	294220	258569	0.879	0.49	
6.800	526444	474561	0.901	0.88	
6.839	226639	165707	0.731	0.38	
6.913	45166	43527	0.964	0.07	
6.942	236304	215093	0.910	0.39	
7.003	1222484	1089446	0.891	2.05	8 Aroclor 1260
7.035	138143	126312	0.914	0.23	
7.075	20791	21357	1.027	0.03	
7.122	14652	13968	0.953	0.02	
7.251	602229	556329	0.924	1.01	8 Aroclor 1260
7.281	201133	169624	0.843	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	561777	484368	0.862	0.94	
7.441	568210	493224	0.868	0.95	8 Aroclor 1260
7.553	38672	32011	0.828	0.06	
7.689	141238	127243	0.901	0.23	
7.727	107920	86916	0.805	0.18	
7.800	70270	43995	0.626	0.11	
7.899	414719	354274	0.854	0.69	8 Aroclor 1260
7.963	59076	35179	0.595	0.09	
8.049	43222	32393	0.749	0.07	
8.273	348710	300700	0.862	0.58	
8.457	14424	8825	0.612	0.02	
8.570	2184924	1889594	0.865	3.67	$ 12 Decachlorobiphenyl
8.727	19410	12302	0.634	0.03	
9.169	42693	34036	0.797	0.07	
	59530530	50530337		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218025.D
Lab Smp Id: 40157488007 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 20:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488007 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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) * CpndV

Name	Value	Description
DF	5.000	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	10.003	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

Compound Not Detected.

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

2.484	2.484	0.000	1654069	0.01342	34			

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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			
4.260	4.261	-0.001	1758846	0.75069	1900	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1163099	0.28024	700	0.00- 20.00	66.13	BA
4.812	4.812	0.000	1019913	0.50240	1200	0.00- 20.00	57.99	BA
4.879	4.879	0.000	2474029	0.49113	1200	0.00- 20.00	140.66	BA
5.035	5.038	-0.003	718961	0.20035	500	0.00- 20.00	40.88	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2320793	0.44330	1100	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1413616	0.32867	820	0.00- 20.00	60.91	BA
5.508	5.510	-0.002	2467367	0.31771	790	0.00- 20.00	106.32	BA
6.024	6.027	-0.003	1412593	0.29008	720	0.00- 20.00	60.87	BA
6.300	6.299	0.001	4252455	0.65351	1600	0.00- 20.00	183.23	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
7.002	7.006	-0.004	1222483	0.12207	300	0.00- 20.00	28.75	BA
7.250	7.251	-0.001	602228	0.12599	310	0.00- 20.00	14.16	BA
7.441	7.443	-0.002	568209	0.19492	490	0.00- 20.00	13.36	BA
7.898	7.901	-0.003	414718	0.15717	390	0.00- 20.00	9.75	BA
Average of Peak Concentrations =					370			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2184924	0.01994	50			

QC Flag Legend

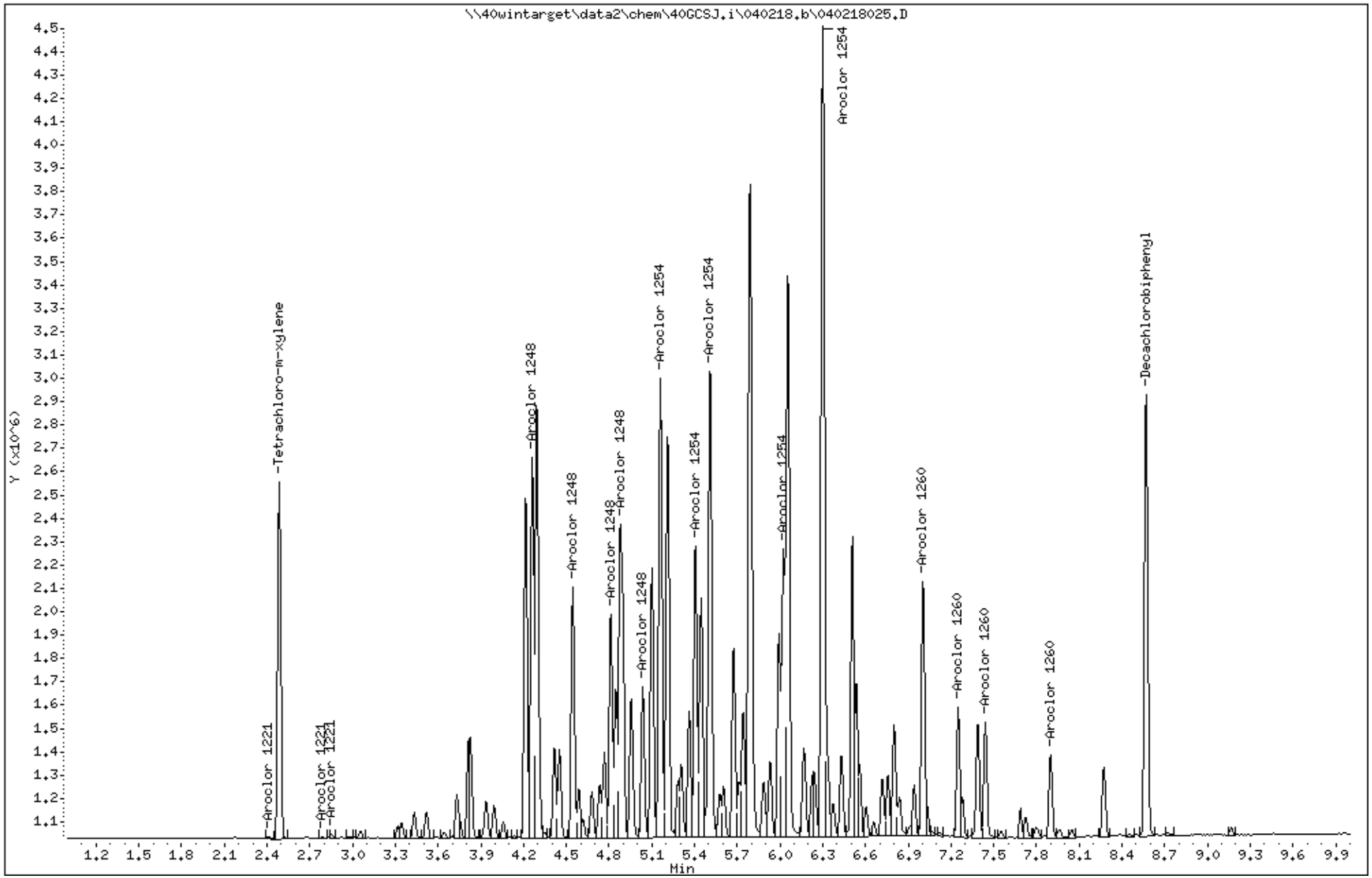
M - Compound response manually integrated.

Review Codes Legend

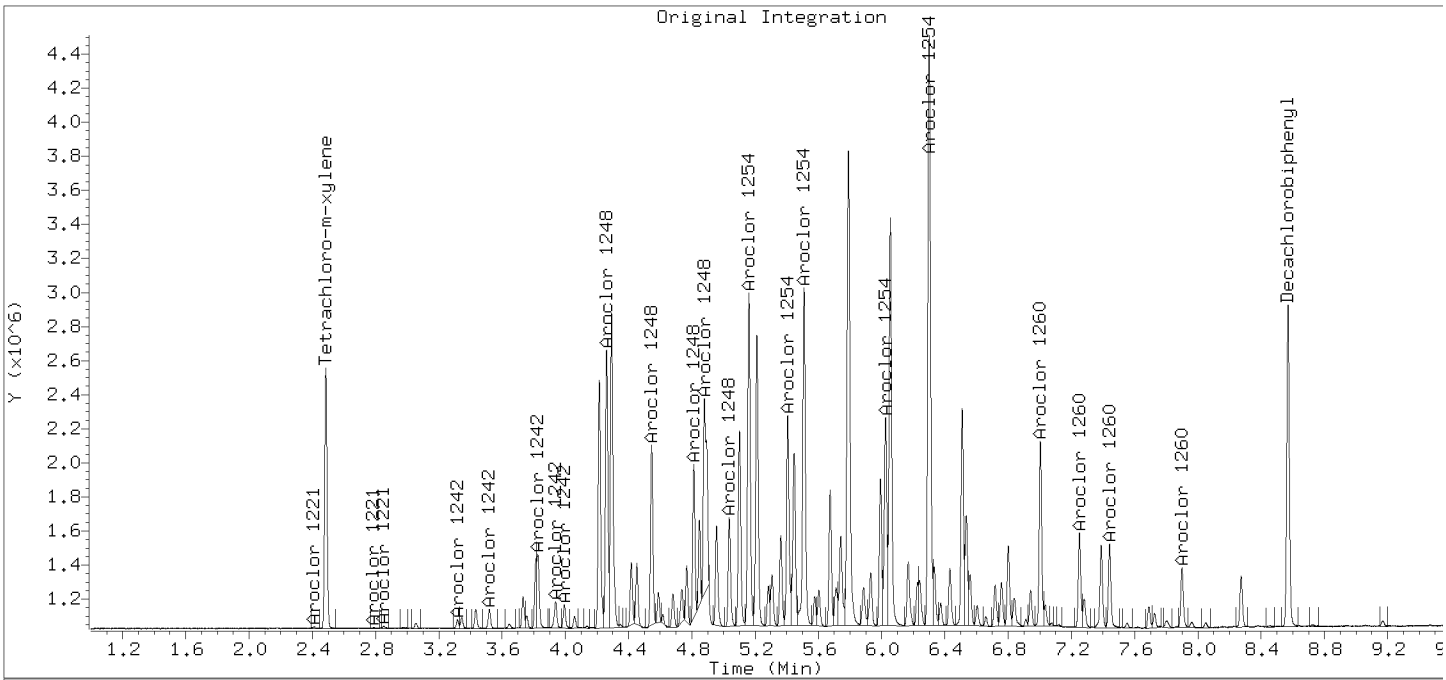
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

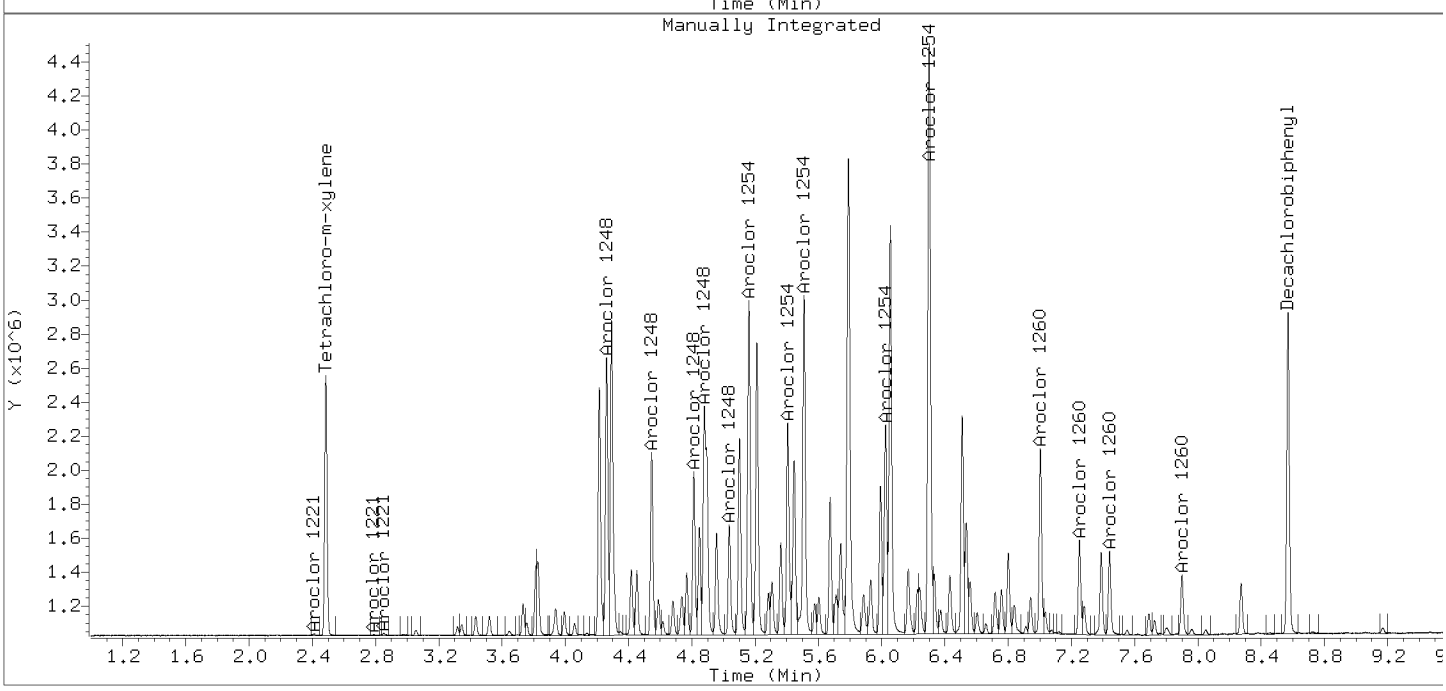
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218025.D
Date : 02-APR-2018 20:45
Client ID: SW2-170614-01-LMB-0
Sample Info: 40157488007 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 20:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	54136	0	
Aroclor 1016	54136	0	
Aroclor 1016	54136	0	
Aroclor 1016	54136	0	
Aroclor 1016	54136	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	19994	0	
Aroclor 1232	19994	0	
Aroclor 1232	19994	0	
Aroclor 1232	19994	0	

Aroclor 1232	19994	0	
Aroclor 1242	54136	0	
Aroclor 1242	54136	0	
Aroclor 1242	54136	0	
Aroclor 1242	54136	0	
Aroclor 1242	54136	0	
Aroclor 1248	1750456	1758846	BA
Aroclor 1248	1750456	1758846	BA
Aroclor 1248	1750456	1758846	BA
Aroclor 1248	1750456	1758846	BA
Aroclor 1248	1750456	1758846	BA
Aroclor 1254	2271238	2320793	BA
Aroclor 1254	2271238	2320793	BA
Aroclor 1254	2271238	2320793	BA
Aroclor 1254	2271238	2320793	BA
Aroclor 1254	2271238	2320793	BA
Aroclor 1260	4223599	0	BA
Aroclor 1260	4223599	0	BA
Aroclor 1260	4223599	0	BA
Aroclor 1260	4223599	0	BA
Aroclor 1260	4223599	0	BA
Tetrachloro-m-xylene	1654069	1654069	
Decachlorobiphenyl	2184924	2184924	

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SAMPLE NO.

SW2-170614-01-LMB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157488008
Date Analyzed: 04/02/2018 21:01
Lab File ID: 040218.B\040218026.D
Initial wt/vol: 10.0372 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)	139	
11097-69-1	PCB-1254 (Aroclor 1254)	104	
11096-82-5	PCB-1260 (Aroclor 1260)	35.5	J
1336-36-3	PCB, Total	279	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218026.D
Lab Smp Id: 40157488008 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 21:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488008,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	10.037	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.188	9618	7088	0.737	0.01		
2.198	38885	26470	0.681	0.07		
2.310	9375	8873	0.946	0.01		
2.411	68233	51570	0.756	0.13		
2.484	8769463	8311561	0.948	17.90	$ 2 Tetrachloro-m-xylene	
2.789	29034	20927	0.721	0.05		
2.853	49358	32493	0.658	0.10		
2.975	16923	10839	0.640	0.03		
3.017	9675	7734	0.799	0.01		
3.055	62130	59284	0.954	0.12		
3.318	45168	44760	0.991	0.09		
3.343	61021	58646	0.961	0.12		
3.433	100882	92246	0.914	0.20		
3.519	107937	98988	0.917	0.22		
3.644	23791	17040	0.716	0.04		
3.731	121921	118787	0.974	0.24		
3.757	49834	49439	0.992	0.10		
3.826	670411	410367	0.612	1.36		
3.937	129017	94146	0.730	0.26		
3.994	121901	114098	0.936	0.24		
4.058	51026	43160	0.846	0.10		
4.136	13212	10859	0.822	0.02		
4.214	941242	846909	0.900	1.92		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	975370	917531	0.941	1.99	6 Aroclor 1248
4.292	1072129	887568	0.828	2.18	
4.348	22892	14945	0.653	0.04	
4.417	284252	259135	0.912	0.58	
4.452	280377	250031	0.892	0.57	
4.509	26506	20894	0.788	0.05	
4.546	753292	693226	0.920	1.53	6 Aroclor 1248
4.589	108923	94990	0.872	0.22	
4.617	64969	56423	0.868	0.13	
4.680	101105	86509	0.856	0.20	
4.734	123541	90753	0.735	0.25	
4.767	245537	227699	0.927	0.50	
4.812	693264	653620	0.943	1.41	6 Aroclor 1248
4.847	536547	508450	0.948	1.09	
4.879	1548050	951766	0.615	3.15	6 Aroclor 1248
4.955	325520	275371	0.846	0.66	
5.037	543024	489912	0.902	1.10	6 Aroclor 1248
5.101	631687	557150	0.882	1.28	
5.161	1245212	1075977	0.864	2.54	7 Aroclor 1254
5.212	1033406	910690	0.881	2.10	
5.283	119325	112029	0.939	0.24	
5.308	183986	147579	0.802	0.37	
5.362	356551	307855	0.863	0.72	
5.406	727483	643186	0.884	1.48	7 Aroclor 1254
5.447	732726	594840	0.812	1.49	
5.481	58754	66792	1.137	0.11	
5.509	1293213	1114176	0.862	2.63	7 Aroclor 1254
5.577	89604	79489	0.887	0.18	
5.603	152641	133725	0.876	0.31	
5.674	397701	348312	0.876	0.81	
5.712	177721	133475	0.751	0.36	
5.741	338069	263195	0.779	0.69	
5.790	2002361	1473622	0.736	4.08	
5.885	181053	126640	0.699	0.36	
5.931	174828	137071	0.784	0.35	
5.993	419493	382968	0.913	0.85	
6.025	759749	678571	0.893	1.55	7 Aroclor 1254
6.054	1395638	1188417	0.852	2.84	
6.167	277024	200290	0.723	0.56	
6.227	125135	129711	1.037	0.25	
6.241	172871	146172	0.846	0.35	
6.300	2038336	1660840	0.815	4.16	7 Aroclor 1254
6.333	204008	179098	0.878	0.41	
6.373	98384	73314	0.745	0.20	
6.432	205701	164014	0.797	0.41	
6.509	651419	582754	0.895	1.32	
6.535	387452	339838	0.877	0.79	
6.560	155853	142683	0.915	0.31	
6.603	73554	60126	0.817	0.15	
6.658	41334	32496	0.786	0.08	
6.717	147439	122174	0.829	0.30	
6.757	169965	150533	0.886	0.34	
6.801	260392	234664	0.901	0.53	
6.839	129679	92082	0.710	0.26	
6.913	28537	26986	0.946	0.05	
6.941	109244	100226	0.917	0.22	
7.004	548990	502154	0.915	1.12	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.034	66099	59776	0.904	0.13	
7.251	284428	255347	0.898	0.58	8 Aroclor 1260
7.281	110850	86254	0.778	0.22	
7.388	281016	244577	0.870	0.57	
7.441	283277	243230	0.859	0.57	8 Aroclor 1260
7.551	11268	12420	1.102	0.02	
7.689	69230	67925	0.981	0.14	
7.726	97330	80125	0.823	0.19	
7.799	63661	40224	0.632	0.12	
7.898	195000	161490	0.828	0.39	8 Aroclor 1260
7.963	33370	17628	0.528	0.06	
8.049	20326	17775	0.875	0.04	
8.273	254791	227686	0.894	0.52	
8.378	15436	12988	0.841	0.03	
8.570	9652093	8227990	0.852	20.19	$ 12 Decachlorobiphenyl
9.047	9247	6868	0.743	0.01	
9.166	29799	23623	0.793	0.06	
9.403	9938	5808	0.584	0.02	
	48989030	42222755		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218026.D
Lab Smp Id: 40157488008 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 21:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488008,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	10.037	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

2.484	2.484	0.000	8769463	0.07113		35		

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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			
4.260	4.261	-0.001	975370	0.41630	210	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	753292	0.18150	90	0.00- 20.00	77.23	BA
4.812	4.812	0.000	693264	0.34150	170	0.00- 20.00	71.08	BA
4.878	4.879	-0.001	1548050	0.30731	150	0.00- 20.00	158.71	BA
5.037	5.038	-0.001	543024	0.15132	75	0.00- 20.00	55.67	BA
Average of Peak Concentrations =					140			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1245211	0.23785	120	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	727482	0.16914	84	0.00- 20.00	58.42	BA
5.509	5.510	-0.001	1293213	0.16652	83	0.00- 20.00	103.85	BA
6.025	6.027	-0.002	759748	0.15602	78	0.00- 20.00	61.01	BA
6.299	6.299	0.000	2038336	0.31325	160	0.00- 20.00	163.69	BA
Average of Peak Concentrations =					100			
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
7.003	7.006	-0.003	548990	0.05482	27	0.00- 20.00	26.93	BA
7.251	7.251	0.000	284427	0.05951	30	0.00- 20.00	13.95	BA
7.440	7.443	-0.003	283277	0.09718	48	0.00- 20.00	13.90	BA
7.898	7.901	-0.003	194999	0.07390	37	0.00- 20.00	9.57	BA
Average of Peak Concentrations =					36			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9652093	0.08810	44			

QC Flag Legend

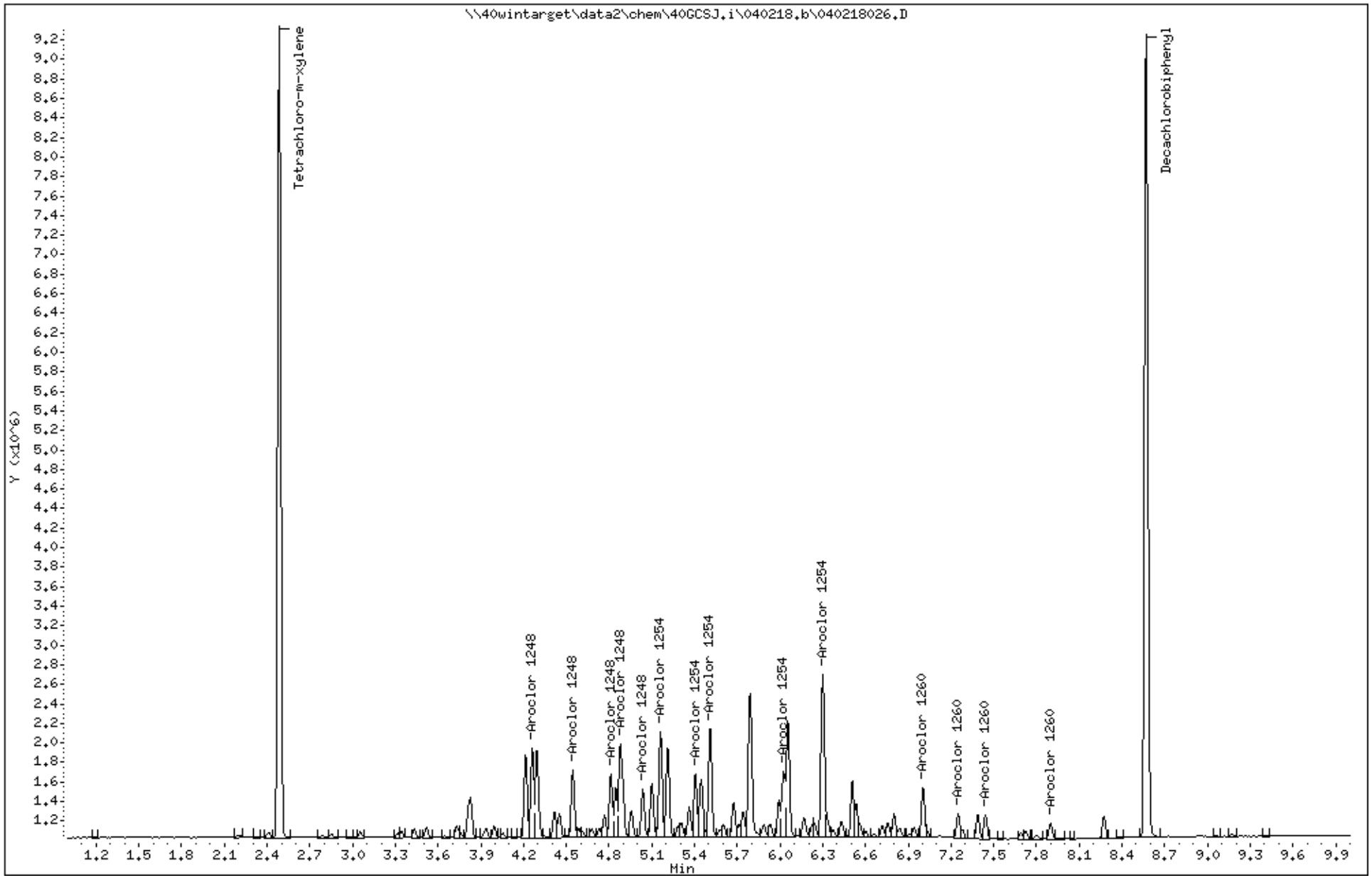
M - Compound response manually integrated.

Review Codes Legend

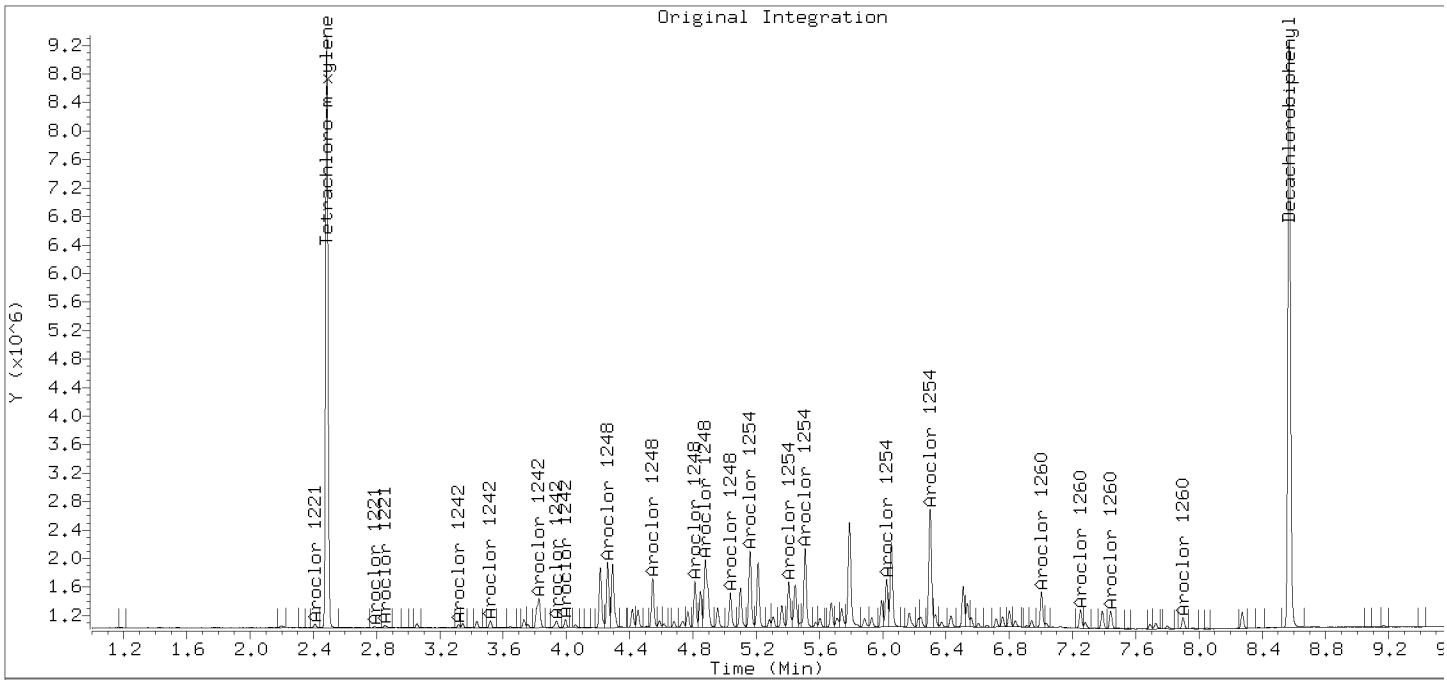
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

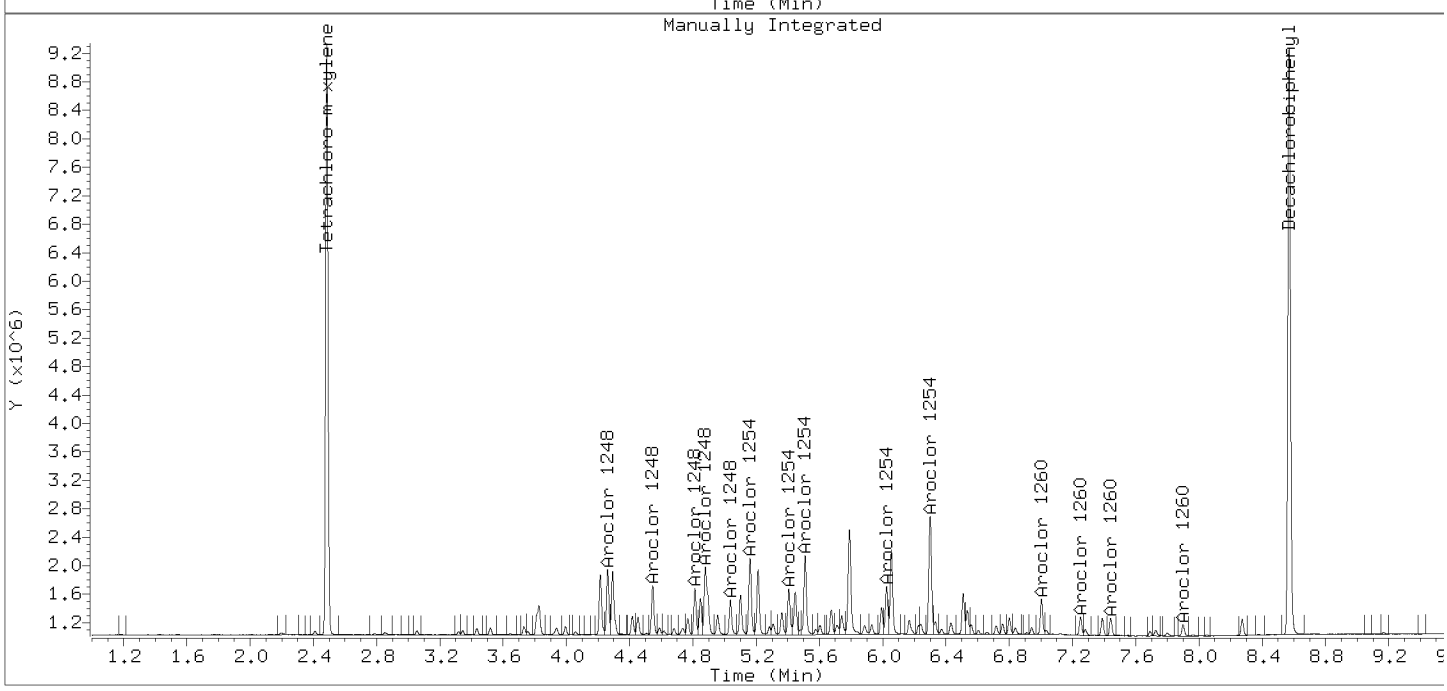
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218026.D
Date : 02-APR-2018 21:01
Client ID: SW2-170614-01-LMB-0
Sample Info: 40157488008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 21:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	45168	0	
Aroclor 1016	45168	0	
Aroclor 1016	45168	0	
Aroclor 1016	45168	0	
Aroclor 1016	45168	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	49358	0	
Aroclor 1232	49358	0	
Aroclor 1232	49358	0	
Aroclor 1232	49358	0	

Aroclor 1232	49358	0	
Aroclor 1242	45168	0	
Aroclor 1242	45168	0	
Aroclor 1242	45168	0	
Aroclor 1242	45168	0	
Aroclor 1242	45168	0	
Aroclor 1248	970058	975370	BA
Aroclor 1248	970058	975370	BA
Aroclor 1248	970058	975370	BA
Aroclor 1248	970058	975370	BA
Aroclor 1248	970058	975370	BA
Aroclor 1254	1226876	1245211	BA
Aroclor 1254	1226876	1245211	BA
Aroclor 1254	1226876	1245211	BA
Aroclor 1254	1226876	1245211	BA
Aroclor 1254	1226876	1245211	BA
Aroclor 1260	2015298	0	BA
Aroclor 1260	2015298	0	BA
Aroclor 1260	2015298	0	BA
Aroclor 1260	2015298	0	BA
Aroclor 1260	2015298	0	BA
Tetrachloro-m-xylene	8769463	8769463	
Decachlorobiphenyl	9652093	9652093	

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SAMPLE NO.

SW2-170614-01-LMB-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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157488

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 40157488009

Date Analyzed: 04/02/2018 21:17

Lab File ID: 040218.B\040218027.D

Initial wt/vol: 10.034 g Final wt/vol: 5 mL Dilution: 3

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	309	
11097-69-1	PCB-1254 (Aroclor 1254)	395	
11096-82-5	PCB-1260 (Aroclor 1260)	178	
1336-36-3	PCB, Total	883	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218027.D
Lab Smp Id: 40157488009 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 21:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488009 x3,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.174	12305	8403	0.683	0.02		
2.412	41086	33170	0.807	0.09		
2.485	2859318	2758979	0.965	6.89	$ 2 Tetrachloro-m-xylene	
2.789	12241	10128	0.827	0.02		
2.851	22189	21964	0.990	0.05		
3.055	49540	41150	0.831	0.11		
3.318	33248	32593	0.980	0.08	5 Aroclor 1016	BA
3.344	45673	43711	0.957	0.11		
3.432	75965	68960	0.908	0.18		
3.520	72944	65500	0.898	0.17	5 Aroclor 1016	BA
3.644	17918	13846	0.773	0.04		
3.732	94753	68820	0.726	0.22		
3.815	112599	134150	1.191	0.27		
3.826	171715	158222	0.921	0.41	5 Aroclor 1016	BA
3.938	92918	71619	0.771	0.22	5 Aroclor 1016	BA
3.995	73621	63786	0.866	0.17	5 Aroclor 1016	BA
4.056	34656	28842	0.832	0.08		
4.214	707993	635765	0.898	1.70		
4.261	741222	724393	0.977	1.78	6 Aroclor 1248	BA
4.292	1021752	852588	0.834	2.46		
4.417	182962	170646	0.933	0.44		
4.452	183930	160142	0.871	0.44		
4.546	528512	491477	0.930	1.27	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.588	122368	114935	0.939	0.29	
4.615	41577	35912	0.864	0.10	
4.681	138282	127683	0.923	0.33	
4.736	171719	144509	0.842	0.41	
4.768	209141	196638	0.940	0.50	
4.813	489370	464152	0.948	1.17	6 Aroclor 1248
4.848	276408	261392	0.946	0.66	
4.879	1281283	694355	0.542	3.08	6 Aroclor 1248
4.956	364267	304204	0.835	0.87	
5.037	343795	300826	0.875	0.82	6 Aroclor 1248
5.102	773713	688025	0.889	1.86	
5.160	1467933	1237545	0.843	3.53	7 Aroclor 1254
5.212	1242288	1094000	0.881	2.99	
5.283	154451	151162	0.979	0.37	
5.307	219461	183635	0.837	0.52	
5.363	371828	332045	0.893	0.89	
5.407	815329	733673	0.900	1.96	7 Aroclor 1254
5.447	772903	619762	0.802	1.86	
5.509	1352968	1126008	0.832	3.26	7 Aroclor 1254
5.577	158204	138861	0.878	0.38	
5.603	132018	115199	0.873	0.31	
5.675	607631	561961	0.925	1.46	
5.712	167086	127290	0.762	0.40	
5.742	488904	380864	0.779	1.17	
5.790	2504845	1876753	0.749	6.03	
5.886	194085	147504	0.760	0.46	
5.930	296895	246349	0.830	0.71	
5.993	754188	678929	0.900	1.81	
6.024	858800	765077	0.891	2.07	7 Aroclor 1254
6.055	2071783	1748247	0.844	4.99	
6.169	340034	272580	0.802	0.81	
6.227	177953	191701	1.077	0.42	
6.240	225296	187952	0.834	0.54	
6.301	3263951	2640922	0.809	7.86	7 Aroclor 1254
6.331	290639	259775	0.894	0.70	
6.372	125159	98117	0.784	0.30	
6.432	299400	239187	0.799	0.72	
6.509	1231115	1078797	0.876	2.96	
6.535	536905	495647	0.923	1.29	
6.560	250407	227635	0.909	0.60	
6.603	109637	88980	0.812	0.26	
6.660	48263	43131	0.894	0.11	
6.717	177826	149974	0.843	0.42	
6.759	186041	164578	0.885	0.44	
6.801	398553	345154	0.866	0.96	
6.840	151077	122415	0.810	0.36	
6.912	36504	38105	1.044	0.08	
6.942	163287	147038	0.900	0.39	
7.004	918603	807174	0.879	2.21	8 Aroclor 1260
7.035	109980	101545	0.923	0.26	
7.072	15501	16058	1.036	0.03	
7.121	10714	12425	1.160	0.02	
7.251	442521	384652	0.869	1.06	8 Aroclor 1260
7.281	157319	129280	0.822	0.37	
7.388	486281	427876	0.880	1.17	
7.441	494544	428168	0.866	1.19	8 Aroclor 1260
7.551	24303	21934	0.903	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.689	114893	107994	0.940	0.27	
7.727	95292	78865	0.828	0.22	
7.798	68634	48732	0.710	0.16	
7.900	323215	264494	0.818	0.77	8 Aroclor 1260
7.959	40891	27892	0.682	0.09	
8.049	27830	21127	0.759	0.06	
8.275	369645	311587	0.843	0.89	
8.376	16638	10359	0.623	0.04	
8.569	3636471	3069393	0.844	9.25	$ 12 Decachlorobiphenyl
8.726	15969	9877	0.619	0.03	
8.941	9724	9017	0.927	0.02	
9.169	43779	34896	0.797	0.10	
9.468	16865	11938	0.708	0.04	
	41484240	35383320		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218027.D
Lab Smp Id: 40157488009 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 21:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488009 x3,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	2859318	0.02319	35			

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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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	741222	0.31636	470	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	528512	0.12734	190	0.00- 20.00	71.30	BA
4.812	4.812	0.000	489370	0.24106	360	0.00- 20.00	66.02	BA
4.878	4.879	-0.001	1281282	0.25435	380	0.00- 20.00	172.86	BA
5.037	5.038	-0.001	343794	0.09580	140	0.00- 20.00	46.38	BA
Average of Peak Concentrations =					310			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1467933	0.28039	420	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	815328	0.18956	280	0.00- 20.00	55.54	BA
5.508	5.510	-0.002	1352968	0.17422	260	0.00- 20.00	92.17	BA
6.024	6.027	-0.003	858800	0.17636	260	0.00- 20.00	58.50	BA
6.300	6.299	0.001	3263950	0.50160	750	0.00- 20.00	222.35	BA
Average of Peak Concentrations =					400			
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
7.003	7.006	-0.003	918602	0.09173	140	0.00- 20.00	28.14	BA
7.250	7.251	-0.001	442521	0.09258	140	0.00- 20.00	13.56	BA
7.441	7.443	-0.002	494544	0.16965	250	0.00- 20.00	15.15	BA
7.899	7.901	-0.002	323214	0.12249	180	0.00- 20.00	9.90	BA
Average of Peak Concentrations =					180			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3636471	0.03319	50			

QC Flag Legend

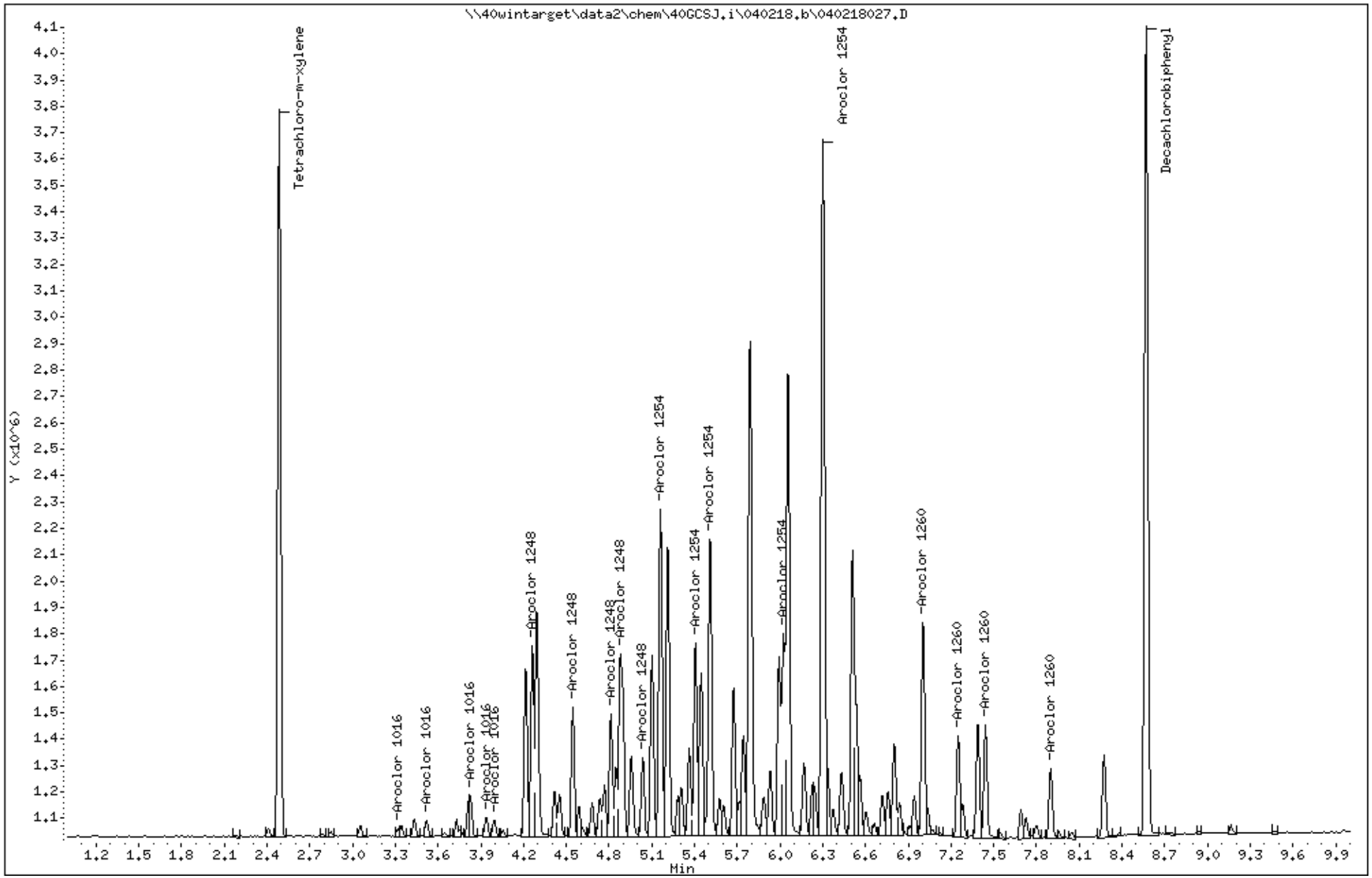
M - Compound response manually integrated.

Review Codes Legend

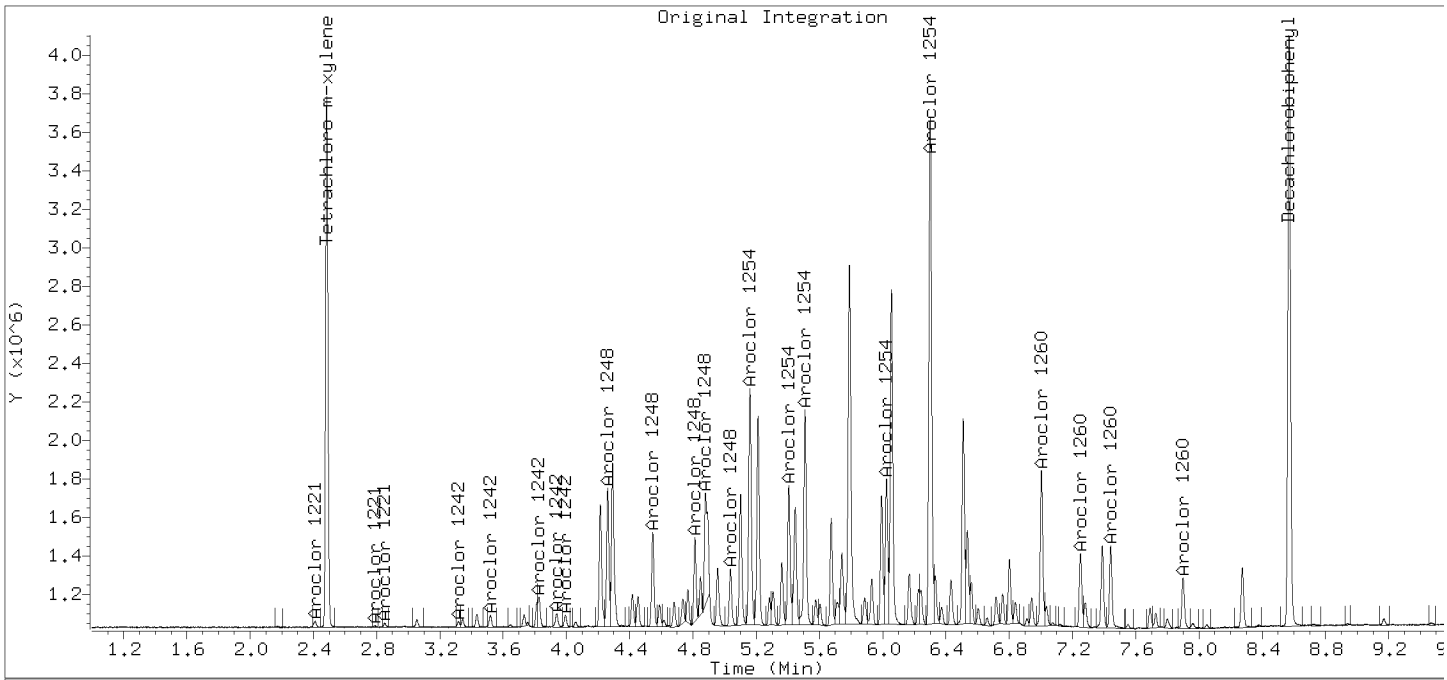
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

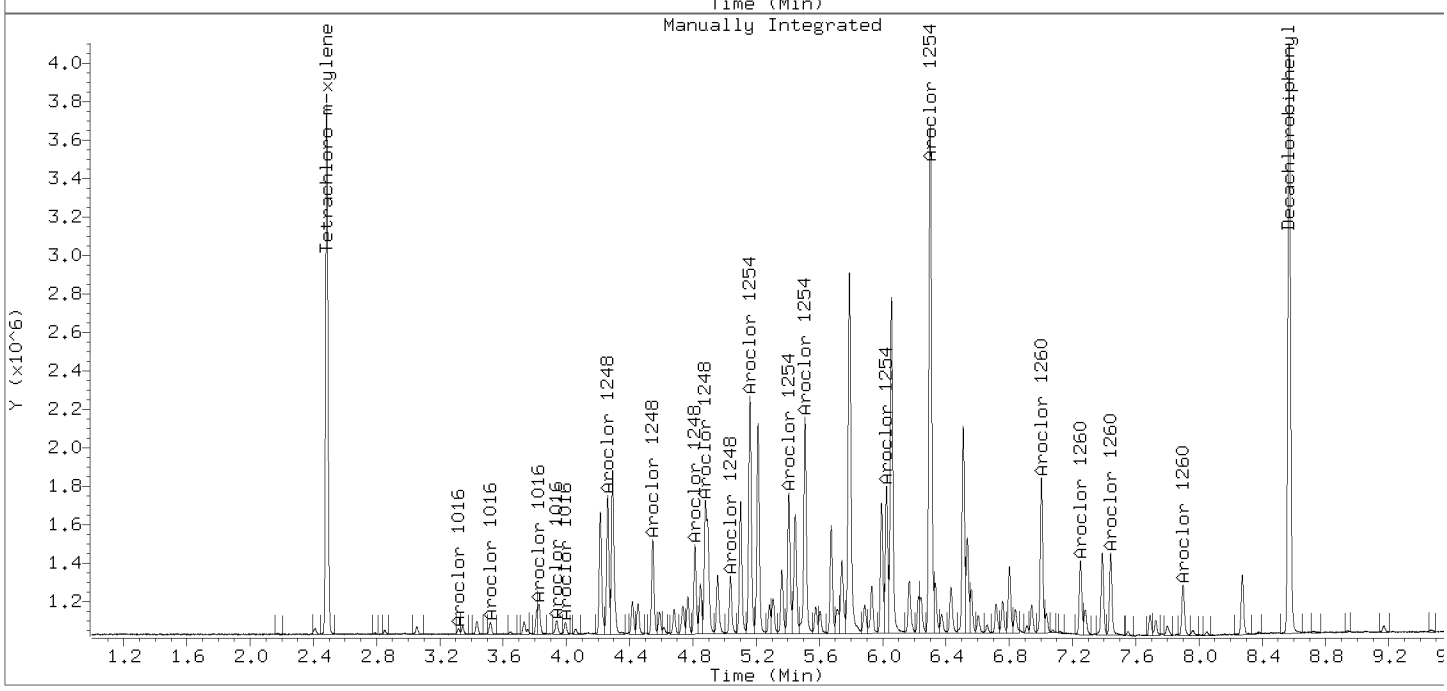
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218027.D
Date : 02-APR-2018 21:17
Client ID: SW2-170614-01-LMB-0
Sample Info: 40157488009 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 21:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488009





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	22188	0	
Aroclor 1232	22188	0	
Aroclor 1232	22188	0	
Aroclor 1232	22188	0	

Aroclor 1232	22188	0	
Aroclor 1242	33247	0	
Aroclor 1242	33247	0	
Aroclor 1242	33247	0	
Aroclor 1242	33247	0	
Aroclor 1242	33247	0	
Aroclor 1248	733611	741222	BA
Aroclor 1248	733611	741222	BA
Aroclor 1248	733611	741222	BA
Aroclor 1248	733611	741222	BA
Aroclor 1248	733611	741222	BA
Aroclor 1254	1435839	1467933	BA
Aroclor 1254	1435839	1467933	BA
Aroclor 1254	1435839	1467933	BA
Aroclor 1254	1435839	1467933	BA
Aroclor 1254	1435839	1467933	BA
Aroclor 1260	3232198	0	BA
Aroclor 1260	3232198	0	BA
Aroclor 1260	3232198	0	BA
Aroclor 1260	3232198	0	BA
Aroclor 1260	3232198	0	BA
Tetrachloro-m-xylene	2859318	2859318	
Decachlorobiphenyl	3636471	3636471	

==========

SAMPLE NO.

SW2-170614-01-LMB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157488010
Date Analyzed: 04/02/2018 22:05
Lab File ID: 040218.B\040218030.D
Initial wt/vol: 9.9936 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	552	
11097-69-1	PCB-1254 (Aroclor 1254)	432	
11096-82-5	PCB-1260 (Aroclor 1260)	141	J
1336-36-3	PCB, Total	1120	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218030.D
Lab Smp Id: 40157488010 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 22:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488010 x3,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.408	67957	54337	0.800	0.14		
2.484	3146890	3038030	0.965	6.49	$ 2 Tetrachloro-m-xylene	
2.788	16670	13475	0.808	0.03		
2.851	44228	33547	0.758	0.09		
2.972	20718	12241	0.591	0.04		
3.023	12166	11009	0.905	0.02		
3.054	96883	89803	0.927	0.19		
3.317	63398	60040	0.947	0.13		
3.344	103399	84875	0.821	0.21		
3.434	152697	141768	0.928	0.31		
3.519	171161	157795	0.922	0.35		
3.644	25809	20741	0.804	0.05		
3.732	179280	171047	0.954	0.37		
3.756	69166	68237	0.987	0.14		
3.812	353545	381120	1.078	0.72		
3.826	392211	394462	1.006	0.80		
3.939	182035	147652	0.811	0.37		
3.993	161062	146909	0.912	0.33		
4.058	74263	66972	0.902	0.15		
4.137	15584	14615	0.938	0.03		
4.215	1342181	1237077	0.922	2.77		
4.261	1434045	1338434	0.933	2.95	6 Aroclor 1248	BA
4.292	1670306	1381621	0.827	3.44		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	420844	397981	0.946	0.86	
4.452	409884	363653	0.887	0.84	
4.546	983191	906587	0.922	2.02	6 Aroclor 1248
4.589	154757	138416	0.894	0.31	
4.618	89571	79176	0.884	0.18	
4.681	144054	129129	0.896	0.29	
4.736	185254	146144	0.789	0.38	
4.767	260593	246324	0.945	0.53	
4.812	810204	774563	0.956	1.67	6 Aroclor 1248
4.847	637728	618763	0.970	1.31	
4.878	2032379	1127323	0.555	4.19	6 Aroclor 1248
4.956	488835	432987	0.886	1.00	
5.037	666349	604435	0.907	1.37	6 Aroclor 1248
5.101	931519	812500	0.872	1.92	
5.161	1643708	1387262	0.844	3.39	7 Aroclor 1254
5.211	1312545	1182464	0.901	2.70	
5.282	158461	153583	0.969	0.32	
5.307	251237	208976	0.832	0.51	
5.363	482356	435046	0.902	0.99	
5.406	1055718	926171	0.877	2.17	7 Aroclor 1254
5.447	856305	729972	0.852	1.76	
5.477	159174	146186	0.918	0.32	
5.509	1824908	1570841	0.861	3.76	7 Aroclor 1254
5.576	126285	113811	0.901	0.26	
5.604	222335	190157	0.855	0.45	
5.675	618735	582845	0.942	1.27	
5.710	316299	248708	0.786	0.65	
5.742	469737	356021	0.758	0.96	
5.790	2597088	1922878	0.740	5.36	
5.885	256317	190449	0.743	0.52	
5.932	262703	208092	0.792	0.54	
5.993	577105	519843	0.901	1.19	
6.024	1098347	962229	0.876	2.26	7 Aroclor 1254
6.055	1862489	1549769	0.832	3.84	
6.169	429332	281804	0.656	0.88	
6.229	154286	173047	1.122	0.31	
6.239	264373	204284	0.773	0.54	
6.300	2725908	2186278	0.802	5.62	7 Aroclor 1254
6.332	269346	241493	0.897	0.55	
6.372	131331	102001	0.777	0.27	
6.431	318040	261439	0.822	0.65	
6.509	879439	792061	0.901	1.81	
6.534	491710	453661	0.923	1.01	
6.559	215188	198593	0.923	0.44	
6.604	99895	79119	0.792	0.20	
6.659	51220	46183	0.902	0.10	
6.718	247307	211796	0.856	0.51	
6.757	284511	250225	0.879	0.58	
6.801	351241	302884	0.862	0.72	
6.839	180970	134662	0.744	0.37	
6.912	35627	34223	0.961	0.07	
6.943	164672	146145	0.887	0.33	
7.004	775160	688201	0.888	1.59	8 Aroclor 1260
7.036	82140	76603	0.933	0.16	
7.073	16282	16089	0.988	0.03	
7.120	39419	27689	0.702	0.08	
7.251	390176	342549	0.878	0.80	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	134884	112374	0.833	0.27	
7.389	356666	317209	0.889	0.73	
7.440	352284	304661	0.865	0.72	8 Aroclor 1260
7.551	29658	20729	0.699	0.06	
7.690	86219	79207	0.919	0.17	
7.727	98959	81721	0.826	0.20	
7.766	17920	14869	0.830	0.03	
7.802	57124	36218	0.634	0.11	
7.899	253611	212377	0.837	0.52	8 Aroclor 1260
7.958	42692	23378	0.548	0.08	
8.050	49357	29337	0.594	0.10	
8.274	238828	211738	0.887	0.49	
8.375	28093	22234	0.791	0.05	
8.570	3711639	3133968	0.844	8.19	$ 12 Decachlorobiphenyl
8.731	15772	9016	0.572	0.03	
8.939	46725	31545	0.675	0.09	
9.169	27265	23835	0.874	0.05	
9.465	67571	42344	0.627	0.13	
9.959	77138	51881	0.673	0.15	
	48452647	41438761		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218030.D
Lab Smp Id: 40157488010 Client Smp ID: SW2-170614-01-LMB-0
Inj Date : 02-APR-2018 22:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488010 x3,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.483	2.484	-0.001	3146889	0.02552	38			

---

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			
4.260	4.261	-0.001	1434045	0.61206	920	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	983190	0.23690	360	0.00- 20.00	68.56	BA
4.812	4.812	0.000	810204	0.39910	600	0.00- 20.00	56.50	BA
4.878	4.879	-0.001	2032379	0.40345	600	0.00- 20.00	141.72	BA
5.036	5.038	-0.002	666348	0.18569	280	0.00- 20.00	46.47	BA
Average of Peak Concentrations =					550			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1643708	0.31397	470	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1055718	0.24546	370	0.00- 20.00	64.23	BA
5.509	5.510	-0.001	1824907	0.23498	350	0.00- 20.00	111.02	BA
6.024	6.027	-0.003	1098346	0.22555	340	0.00- 20.00	66.82	BA
6.299	6.299	0.000	2725908	0.41891	630	0.00- 20.00	165.84	BA
Average of Peak Concentrations =					430			
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	775160	0.07740	120	0.00- 20.00	28.44	BA
7.251	7.251	0.000	390175	0.08163	120	0.00- 20.00	14.31	BA
7.440	7.443	-0.003	352283	0.12085	180	0.00- 20.00	12.92	BA
7.899	7.901	-0.002	253611	0.09611	140	0.00- 20.00	9.30	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3711639	0.03388	51			

QC Flag Legend

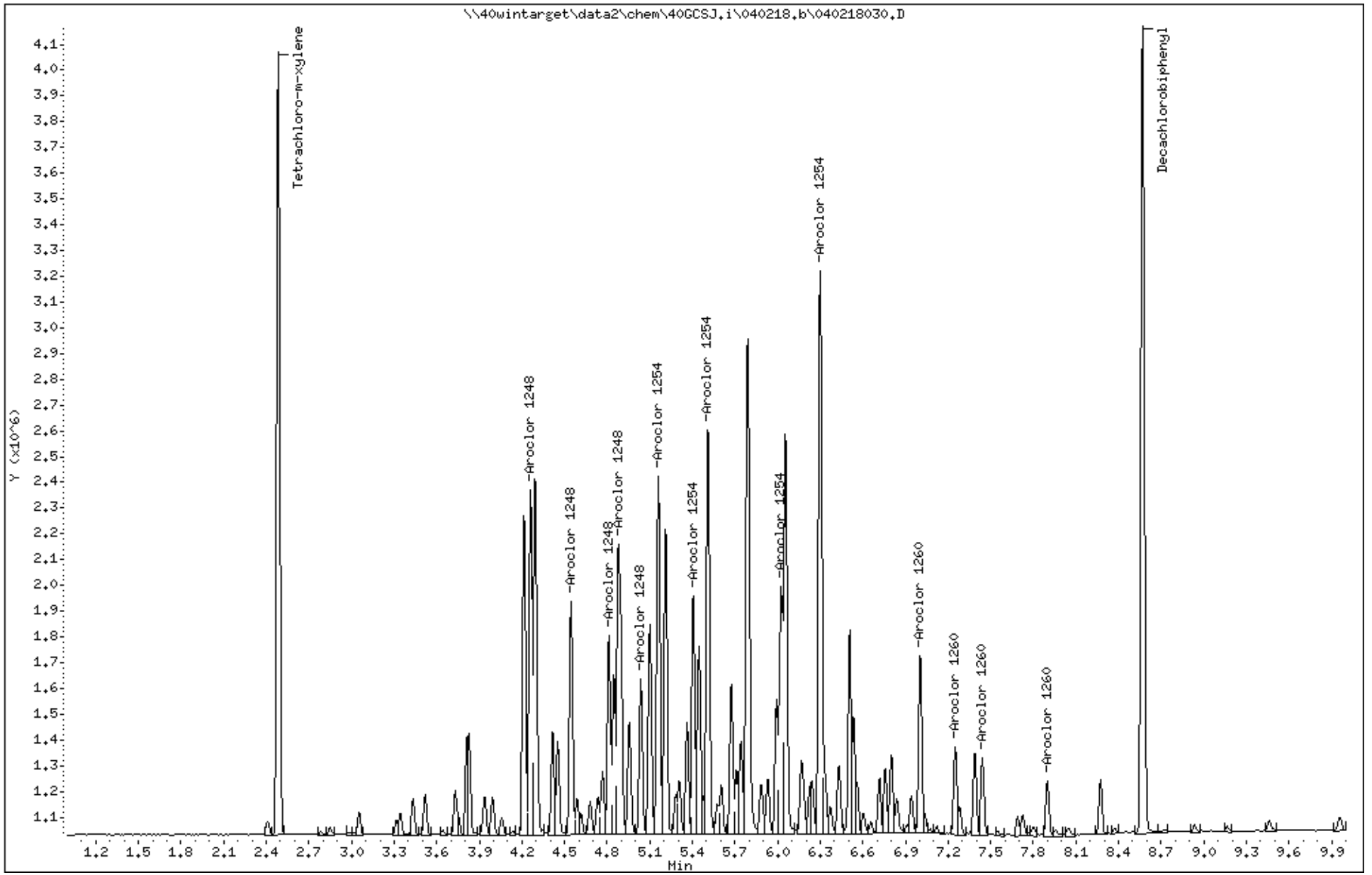
M - Compound response manually integrated.

Review Codes Legend

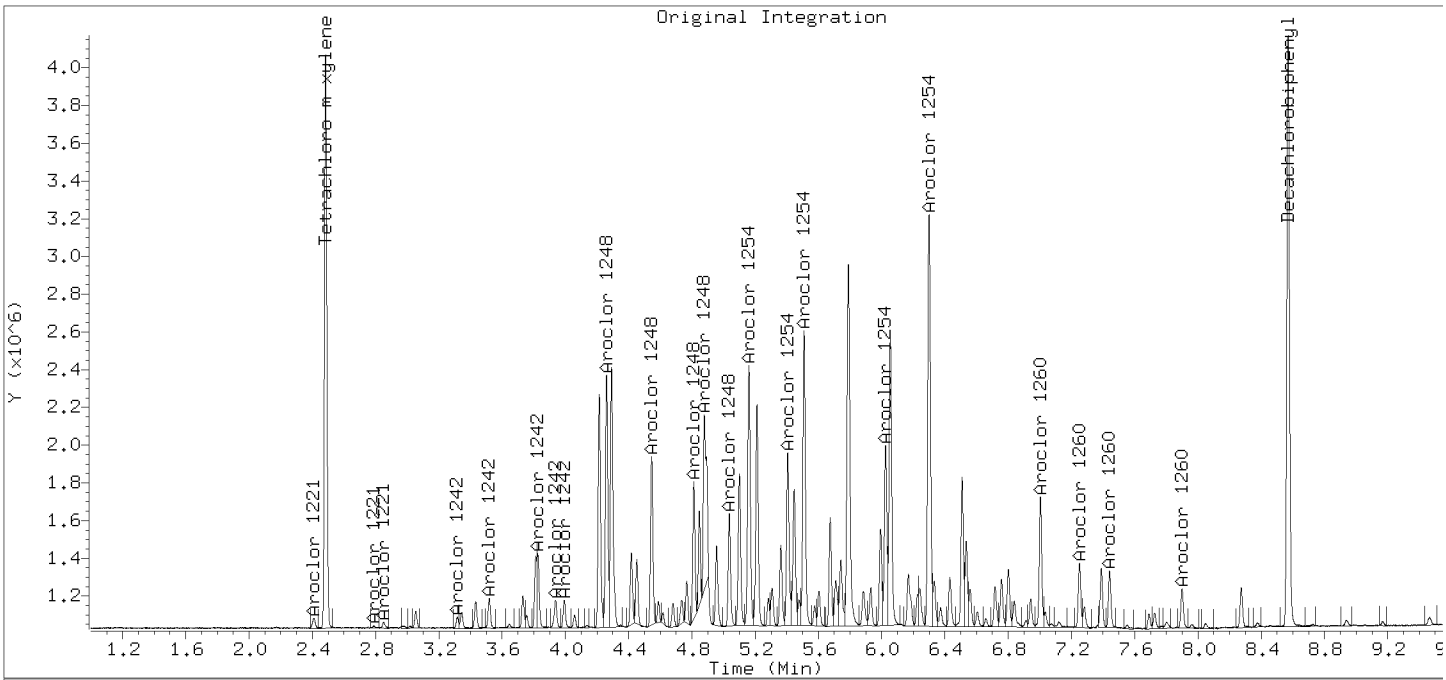
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

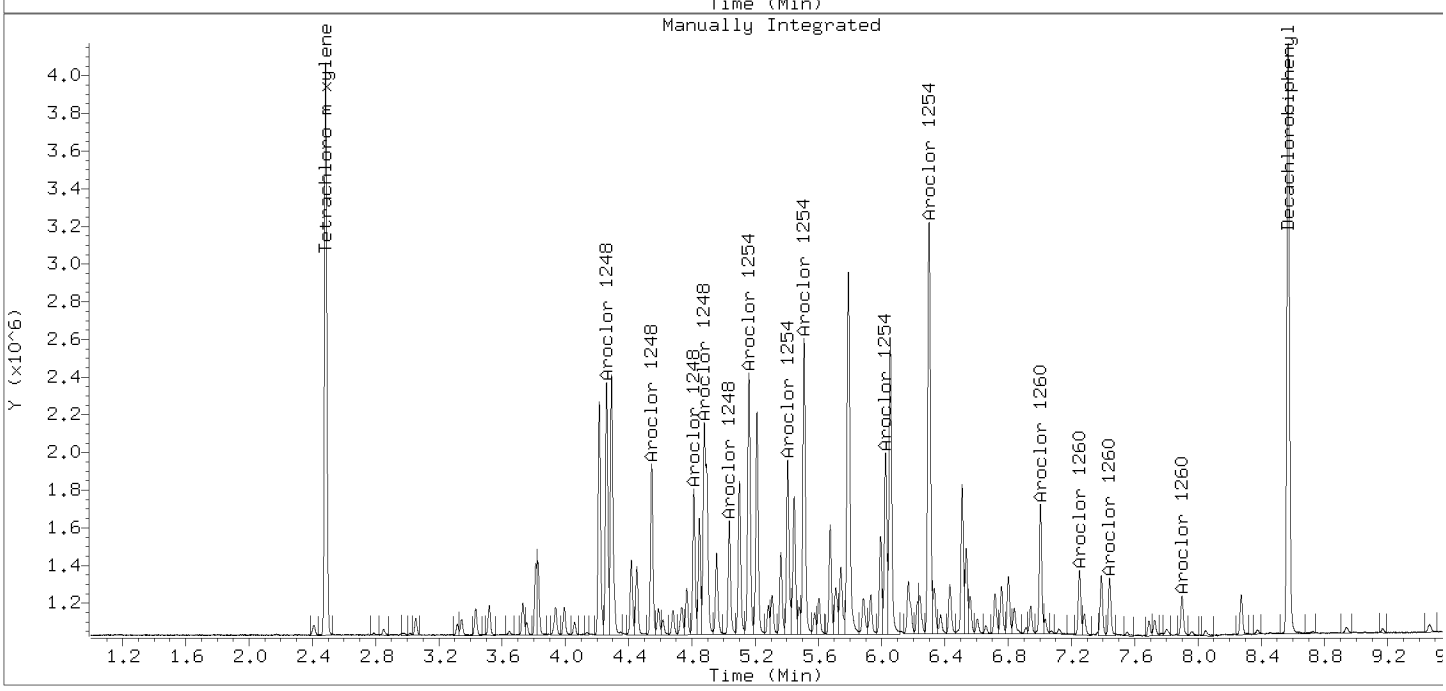
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218030.D
Date : 02-APR-2018 22:05
Client ID: SW2-170614-01-LMB-0
Sample Info: 40157488010 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 22:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	63397	0	
Aroclor 1016	63397	0	
Aroclor 1016	63397	0	
Aroclor 1016	63397	0	
Aroclor 1016	63397	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	44228	0	
Aroclor 1232	44228	0	
Aroclor 1232	44228	0	
Aroclor 1232	44228	0	

Aroclor 1232	44228	0	
Aroclor 1242	63397	0	
Aroclor 1242	63397	0	
Aroclor 1242	63397	0	
Aroclor 1242	63397	0	
Aroclor 1242	63397	0	
Aroclor 1248	1424696	1434045	BA
Aroclor 1248	1424696	1434045	BA
Aroclor 1248	1424696	1434045	BA
Aroclor 1248	1424696	1434045	BA
Aroclor 1248	1424696	1434045	BA
Aroclor 1254	1603997	1643708	BA
Aroclor 1254	1603997	1643708	BA
Aroclor 1254	1603997	1643708	BA
Aroclor 1254	1603997	1643708	BA
Aroclor 1254	1603997	1643708	BA
Aroclor 1260	2714520	0	BA
Aroclor 1260	2714520	0	BA
Aroclor 1260	2714520	0	BA
Aroclor 1260	2714520	0	BA
Aroclor 1260	2714520	0	BA
Tetrachloro-m-xylene	3146889	3146889	
Decachlorobiphenyl	3711639	3711639	

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SAMPLE NO.

SW2-170614-01-BB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/03/2018 07:20
Lab Sample ID: 40157488011
Date Analyzed: 04/05/2018 15:43
Lab File ID: 040518.B\040518010.D
Initial wt/vol: 9.9839 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)	265	
11097-69-1	PCB-1254 (Aroclor 1254)	174	
11096-82-5	PCB-1260 (Aroclor 1260)	65.9	
1336-36-3	PCB, Total	505	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518010.D
Lab Smp Id: 40157488011 Client Smp ID: SW2-170614-01-BB-05
Inj Date : 05-APR-2018 15:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488011,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	9.984	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	20382	14002	0.687	0.02		
1.432	11439	10032	0.877	0.01		
2.200	30373	22685	0.747	0.04		
2.412	48217	39169	0.812	0.06		
2.484	10834709	10236098	0.945	15.10	$ 2 Tetrachloro-m-xylene	
2.788	25146	21299	0.847	0.03		
2.851	28416	22684	0.798	0.03		
2.976	40134	28057	0.699	0.05		
3.020	23867	21871	0.916	0.03		
3.056	31932	26706	0.836	0.04		
3.317	51855	42274	0.815	0.06		
3.432	102723	94783	0.923	0.13		
3.518	140786	127921	0.909	0.18		
3.645	50683	42600	0.841	0.06		
3.731	353756	315203	0.891	0.47		
3.826	1878859	1221076	0.650	2.52		
3.938	59607	34598	0.580	0.08		
3.994	169831	159422	0.939	0.22		
4.058	69059	51977	0.753	0.09		
4.134	17950	15229	0.848	0.02		
4.214	832594	726824	0.873	1.12		
4.261	1444200	1353458	0.937	1.94	6 Aroclor 1248	BA
4.292	3042473	2585528	0.850	4.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	611250	577268	0.944	0.82	
4.452	313804	277586	0.885	0.42	
4.545	1436919	1322950	0.921	1.93	6 Aroclor 1248
4.588	232093	209558	0.903	0.31	
4.616	109261	90851	0.832	0.14	
4.678	117032	96464	0.824	0.15	
4.737	144163	114789	0.796	0.19	
4.767	455805	437100	0.959	0.61	
4.812	1629790	1502841	0.922	2.19	6 Aroclor 1248
4.847	563006	540793	0.961	0.75	
4.878	3372114	2159903	0.641	4.53	6 Aroclor 1248
4.957	453084	360430	0.796	0.60	
5.037	770371	700475	0.909	1.03	6 Aroclor 1248
5.101	1358474	1175044	0.865	1.82	
5.160	1327584	1107255	0.834	1.78	7 Aroclor 1254
5.212	1270125	1078680	0.849	1.70	
5.283	246844	240244	0.973	0.33	
5.307	390704	327400	0.838	0.52	
5.362	451326	403202	0.893	0.60	
5.406	1203878	1053714	0.875	1.62	7 Aroclor 1254
5.447	1033219	860422	0.833	1.39	
5.479	126521	122475	0.968	0.17	
5.509	2324145	1972723	0.849	3.12	7 Aroclor 1254
5.576	110286	100312	0.910	0.14	
5.603	246488	194598	0.789	0.33	
5.675	664105	610242	0.919	0.89	
5.710	435755	364673	0.837	0.58	
5.742	732716	581286	0.793	0.98	
5.789	3683550	2785454	0.756	4.95	
5.885	365365	255614	0.700	0.49	
5.930	369354	290763	0.787	0.49	
5.993	880937	789592	0.896	1.18	
6.024	1613512	1369918	0.849	2.17	7 Aroclor 1254
6.055	1143374	952388	0.833	1.53	
6.167	492459	331317	0.673	0.66	
6.228	197629	221765	1.122	0.26	
6.242	359557	292396	0.813	0.48	
6.301	3715126	3021407	0.813	5.00	7 Aroclor 1254
6.332	322614	295109	0.915	0.43	
6.372	159596	123867	0.776	0.21	
6.432	475777	377164	0.793	0.64	
6.508	1611043	1422304	0.883	2.16	
6.533	666284	599922	0.900	0.89	
6.558	218571	197571	0.904	0.29	
6.603	144664	109328	0.756	0.19	
6.660	81076	67784	0.836	0.10	
6.718	364401	317374	0.871	0.49	
6.758	432537	381203	0.881	0.58	
6.801	470000	416900	0.887	0.63	
6.838	277461	198399	0.715	0.37	
6.910	52070	46971	0.902	0.07	
6.943	190299	168030	0.883	0.25	
7.004	1012782	919373	0.908	1.36	8 Aroclor 1260
7.034	143175	130998	0.915	0.19	
7.077	17625	16502	0.936	0.02	
7.122	59644	47266	0.792	0.08	
7.250	488769	448326	0.917	0.65	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	198145	162766	0.821	0.26	
7.336	18074	14721	0.814	0.02	
7.389	560890	489885	0.873	0.75	
7.441	518728	463464	0.893	0.69	8 Aroclor 1260
7.476	24288	14803	0.609	0.03	
7.552	29642	26679	0.900	0.03	
7.690	119319	113717	0.953	0.16	
7.727	190808	154745	0.811	0.25	
7.801	92198	60417	0.655	0.12	
7.863	9408	8581	0.912	0.01	
7.899	383529	329792	0.860	0.51	8 Aroclor 1260
7.962	51936	34132	0.657	0.06	
8.050	44236	37746	0.853	0.05	
8.182	12274	11523	0.939	0.01	
8.274	438908	391262	0.891	0.59	
8.376	21523	16129	0.749	0.02	
8.570	9976216	8502991	0.852	13.42	$ 12 Decachlorobiphenyl
8.676	9865	6937	0.703	0.01	
8.723	16333	10335	0.633	0.02	
8.947	15617	10975	0.703	0.02	
9.169	71351	57872	0.811	0.09	
9.332	10845	6046	0.558	0.01	
9.468	13821	7964	0.576	0.01	
9.960	14992	11855	0.791	0.02	
	74292052	63337116		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518010.D
Lab Smp Id: 40157488011 Client Smp ID: SW2-170614-01-BB-05
Inj Date : 05-APR-2018 15:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488011,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	9.984	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

2.484	2.484	0.000	10834708	0.08788	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			
4.261	4.261	0.000	1444199	0.61640	310	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1436918	0.34622	170	0.00- 20.00	99.50	BA
4.812	4.812	0.000	1629789	0.80282	400	0.00- 20.00	112.85	BA
4.878	4.879	-0.001	3372114	0.66941	340	0.00- 20.00	233.49	BA
5.036	5.038	-0.002	770370	0.21467	110	0.00- 20.00	53.34	BA
Average of Peak Concentrations =					260			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1327583	0.25359	130	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1203878	0.27990	140	0.00- 20.00	90.68	BA
5.509	5.510	-0.001	2324145	0.29927	150	0.00- 20.00	175.07	BA
6.024	6.027	-0.003	1613511	0.33134	160	0.00- 20.00	121.54	BA
6.300	6.299	0.001	3715126	0.57093	280	0.00- 20.00	279.84	BA
Average of Peak Concentrations =					170			
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	1012782	0.10113	51	0.00- 20.00	27.26	CO
7.249	7.251	-0.002	488769	0.10226	51	0.00- 20.00	13.16	CO
7.441	7.443	-0.002	518728	0.17794	89	0.00- 20.00	14.61	CO
7.898	7.901	-0.003	383529	0.14535	73	0.00- 20.00	10.32	CO
Average of Peak Concentrations =					66			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9976215	0.09106	46			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518010.D

Date : 05-APR-2018 15:43

Client ID: SW2-170614-01-BB-05

Instrument: 40GCSJ.i

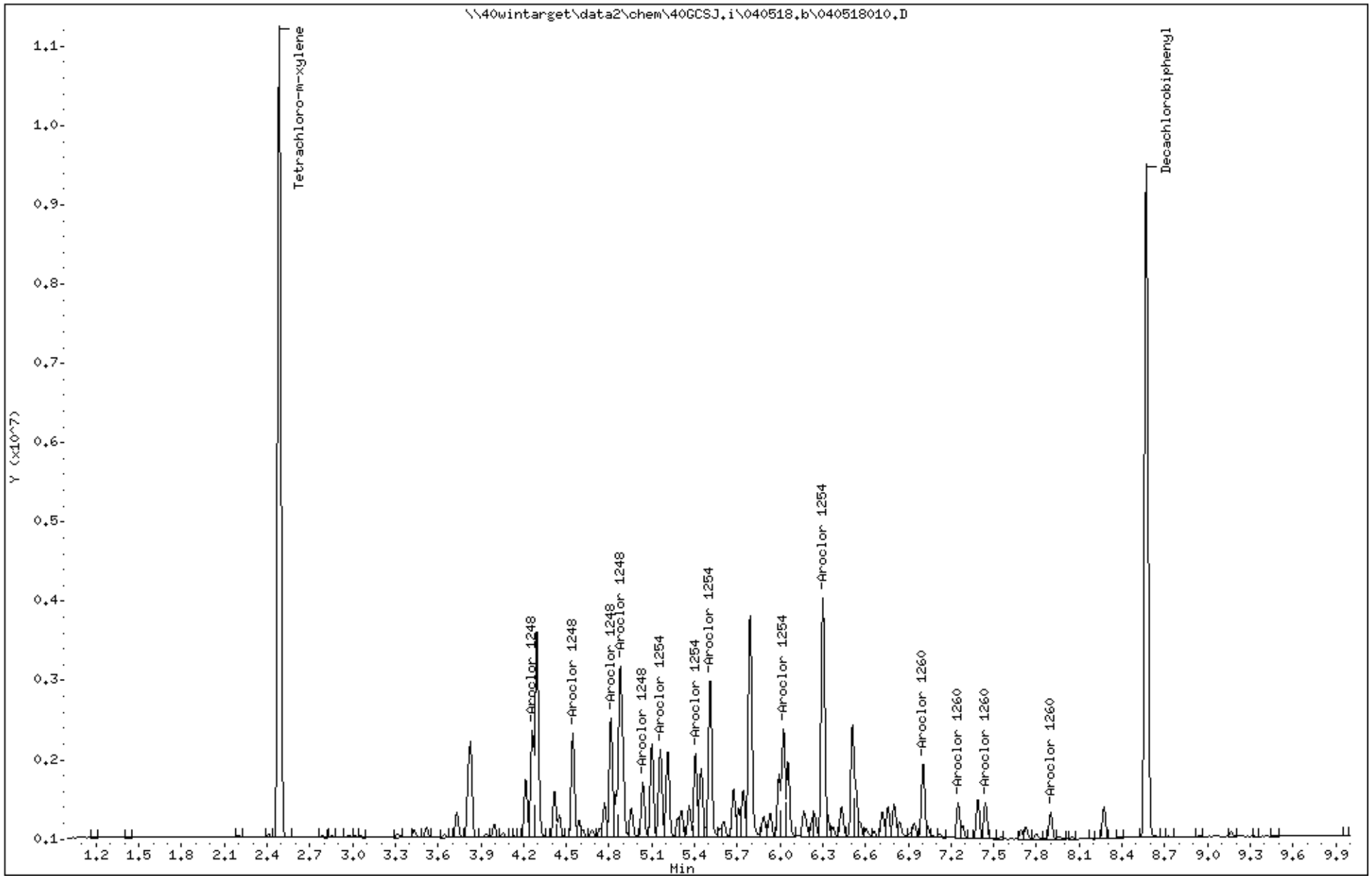
Sample Info: 40157488011,

Volume Injected (uL): 1.0

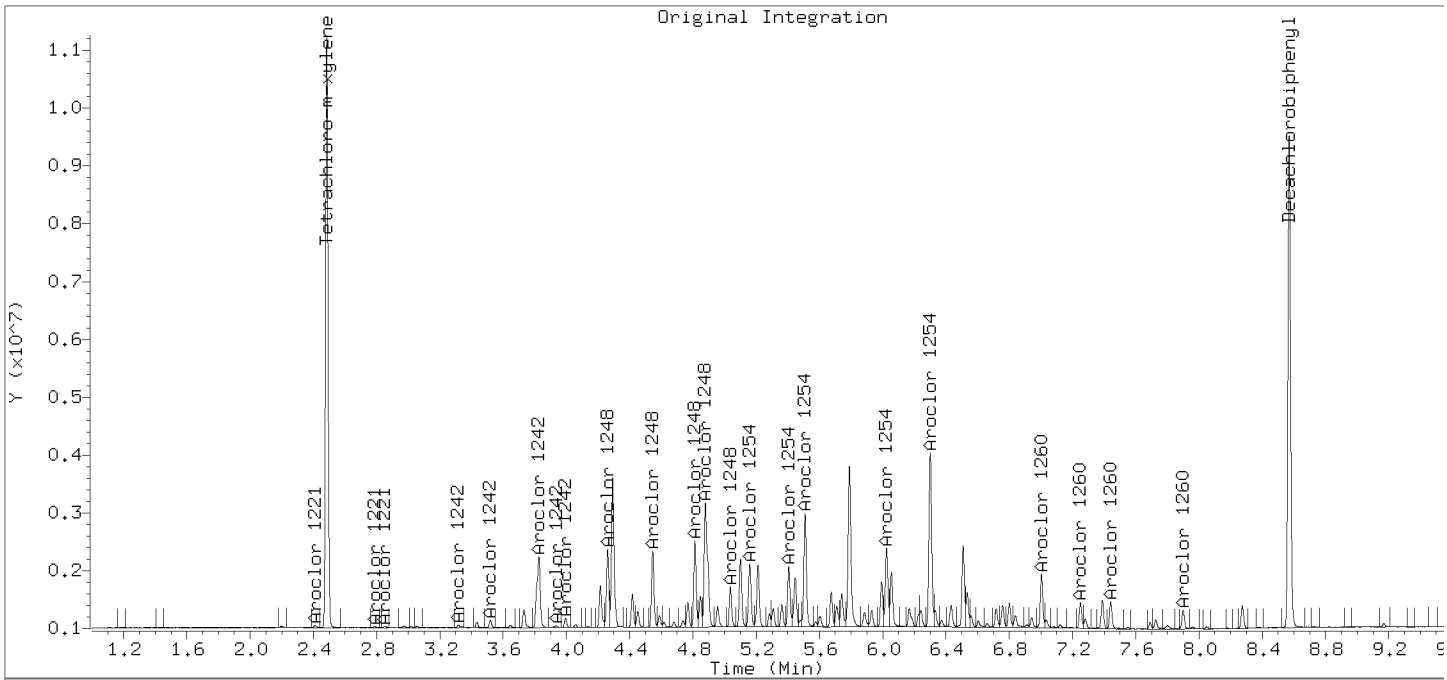
Operator: BLM

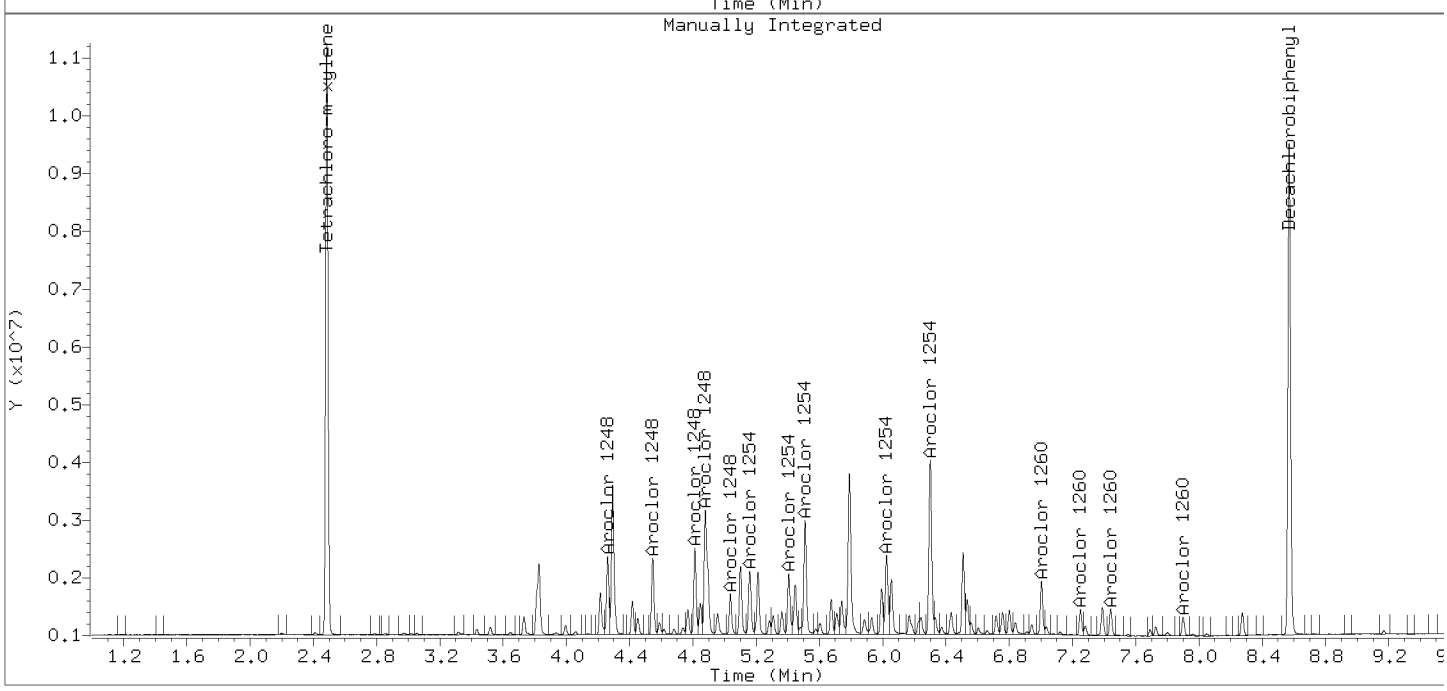
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 15:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	51854	0	
Aroclor 1016	51854	0	
Aroclor 1016	51854	0	
Aroclor 1016	51854	0	
Aroclor 1016	51854	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	28416	0	
Aroclor 1232	28416	0	
Aroclor 1232	28416	0	
Aroclor 1232	28416	0	

Aroclor 1232	28416	0	
Aroclor 1242	51854	0	
Aroclor 1242	51854	0	
Aroclor 1242	51854	0	
Aroclor 1242	51854	0	
Aroclor 1242	51854	0	
Aroclor 1248	1427620	1444199	BA
Aroclor 1248	1427620	1444199	BA
Aroclor 1248	1427620	1444199	BA
Aroclor 1248	1427620	1444199	BA
Aroclor 1248	1427620	1444199	BA
Aroclor 1254	1293076	1327583	BA
Aroclor 1254	1293076	1327583	BA
Aroclor 1254	1293076	1327583	BA
Aroclor 1254	1293076	1327583	BA
Aroclor 1254	1293076	1327583	BA
Aroclor 1260	3683182	0	CO
Aroclor 1260	3683182	0	CO
Aroclor 1260	3683182	0	CO
Aroclor 1260	3683182	0	CO
Aroclor 1260	3683182	0	CO
Tetrachloro-m-xylene	10834708	10834708	
Decachlorobiphenyl	9976215	9976215	

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SAMPLE NO.

SW2-170614-01-BB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/03/2018 07:20
Lab Sample ID: 40157488012
Date Analyzed: 04/05/2018 15:58
Lab File ID: 040518.B\040518011.D
Initial wt/vol: 10.0102 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ 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)	458	
11097-69-1	PCB-1254 (Aroclor 1254)	299	
11096-82-5	PCB-1260 (Aroclor 1260)	90.9	J
1336-36-3	PCB, Total	848	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518011.D
Lab Smp Id: 40157488012 Client Smp ID: SW2-170614-01-BB-04
Inj Date : 05-APR-2018 15:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488012 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.016	14570	8384	0.575	0.02		
2.168	11615	9017	0.776	0.02		
2.411	65424	47140	0.721	0.11		
2.485	5249523	4960098	0.945	9.84	$ 2 Tetrachloro-m-xylene	
2.789	24071	19197	0.798	0.04		
2.852	53117	45137	0.850	0.09		
2.972	26482	18495	0.698	0.04		
3.017	18269	14939	0.818	0.03		
3.055	39714	37024	0.932	0.07		
3.318	74395	71584	0.962	0.13		
3.344	35298	34455	0.976	0.06		
3.433	136276	125254	0.919	0.24		
3.520	190595	168448	0.884	0.33		
3.646	43361	37120	0.856	0.07		
3.732	292229	249925	0.855	0.52		
3.827	1239090	760894	0.614	2.20		
3.939	109313	75398	0.690	0.19		
3.995	175713	160010	0.911	0.31		
4.060	63135	53173	0.842	0.11		
4.138	14296	12377	0.866	0.02		
4.215	984280	878116	0.892	1.75		
4.261	1261509	1184004	0.939	2.24	6 Aroclor 1248	BA
4.292	2699108	2281133	0.845	4.80		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.418	581286	555182	0.955	1.03	
4.452	292531	259984	0.889	0.52	
4.546	1419834	1291017	0.909	2.52	6 Aroclor 1248
4.588	218169	204660	0.938	0.38	
4.618	96428	77374	0.802	0.17	
4.681	119020	102897	0.865	0.21	
4.737	155017	133683	0.862	0.27	
4.767	464323	442943	0.954	0.82	
4.813	1136723	1046175	0.920	2.02	6 Aroclor 1248
4.848	449587	435614	0.969	0.80	
4.879	2809131	1541671	0.549	5.00	6 Aroclor 1248
4.956	428184	349361	0.816	0.76	
5.037	1055525	931024	0.882	1.88	6 Aroclor 1248
5.101	1406867	1241660	0.883	2.50	
5.160	1158920	972889	0.839	2.06	7 Aroclor 1254
5.212	1081953	896584	0.829	1.92	
5.283	199273	204256	1.025	0.35	
5.308	431673	349052	0.809	0.76	
5.362	424806	362244	0.853	0.75	
5.406	1189987	1049737	0.882	2.11	7 Aroclor 1254
5.447	891365	743224	0.834	1.58	
5.477	198506	181987	0.917	0.35	
5.509	2216118	1912842	0.863	3.94	7 Aroclor 1254
5.577	110946	99470	0.897	0.19	
5.604	249457	205569	0.824	0.44	
5.674	944771	872029	0.923	1.68	
5.709	461771	382236	0.828	0.82	
5.742	554127	428965	0.774	0.98	
5.790	2783740	2032476	0.730	4.95	
5.883	362424	259383	0.716	0.64	
5.932	308095	246832	0.801	0.54	
5.993	660190	605701	0.917	1.17	
6.025	1330613	1115403	0.838	2.37	7 Aroclor 1254
6.055	948855	781142	0.823	1.69	
6.168	513662	292829	0.570	0.91	
6.227	171384	182935	1.067	0.30	
6.242	267463	227855	0.852	0.47	
6.301	2877600	2302984	0.800	5.12	7 Aroclor 1254
6.333	243603	227792	0.935	0.43	
6.372	141769	109251	0.771	0.25	
6.432	395762	328189	0.829	0.70	
6.481	17570	20469	1.165	0.03	
6.509	1143028	1006150	0.880	2.03	
6.535	458865	435327	0.949	0.81	
6.559	171674	146427	0.853	0.30	
6.605	91977	70489	0.766	0.16	
6.659	58779	53858	0.916	0.10	
6.718	303839	272512	0.897	0.54	
6.758	342304	299791	0.876	0.60	
6.802	342786	298420	0.871	0.61	
6.838	208621	155217	0.744	0.37	
6.911	37045	36932	0.997	0.06	
6.942	151079	138926	0.920	0.26	
7.004	658139	592226	0.900	1.17	8 Aroclor 1260
7.035	93499	84331	0.902	0.16	
7.077	9972	11508	1.154	0.01	
7.123	43774	36499	0.834	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	347878	308580	0.887	0.61	8 Aroclor 1260
7.281	136474	109423	0.802	0.24	
7.336	14731	12977	0.881	0.02	
7.389	407698	360113	0.883	0.72	
7.442	379225	329908	0.870	0.67	8 Aroclor 1260
7.477	19302	11619	0.602	0.03	
7.551	25471	19618	0.770	0.04	
7.692	79359	74229	0.935	0.14	
7.727	132101	112302	0.850	0.23	
7.801	73555	40884	0.556	0.13	
7.900	251395	211655	0.842	0.44	8 Aroclor 1260
7.961	35911	25895	0.721	0.06	
8.052	51099	44196	0.865	0.09	
8.275	298540	266236	0.892	0.53	
8.379	20672	12256	0.593	0.03	
8.571	5063260	4299069	0.849	9.01	$ 12 Decachlorobiphenyl
8.728	14334	9796	0.683	0.02	
9.055	9960	7641	0.767	0.01	
9.168	45244	36688	0.811	0.08	
9.462	15064	8492	0.564	0.02	
9.961	15980	11424	0.715	0.02	
	56143044	47210506		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518011.D
Lab Smp Id: 40157488012 Client Smp ID: SW2-170614-01-BB-04
Inj Date : 05-APR-2018 15:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488012 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	10.010	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	5249523	0.04258		42		

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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			
4.260	4.261	-0.001	1261509	0.53842	540	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1419833	0.34210	340	0.00- 20.00	112.55	BA
4.812	4.812	0.000	1136722	0.55994	560	0.00- 20.00	90.11	BA
4.878	4.879	-0.001	2809131	0.55765	560	0.00- 20.00	222.68	BA
5.036	5.038	-0.002	1055525	0.29414	290	0.00- 20.00	83.67	BA
Average of Peak Concentrations =					460			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1158920	0.22137	220	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1189987	0.27667	280	0.00- 20.00	102.68	BA
5.509	5.510	-0.001	2216118	0.28536	280	0.00- 20.00	191.22	BA
6.024	6.027	-0.003	1330613	0.27324	270	0.00- 20.00	114.81	BA
6.301	6.299	0.002	2877600	0.44222	440	0.00- 20.00	248.30	BA
Average of Peak Concentrations =					300			
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	658139	0.06572	66	0.00- 20.00	22.87	CO
7.250	7.251	-0.001	347877	0.07278	73	0.00- 20.00	12.09	CO
7.441	7.443	-0.002	379224	0.13009	130	0.00- 20.00	13.84	CO
7.899	7.901	-0.002	251395	0.09527	95	0.00- 20.00	8.74	CO
Average of Peak Concentrations =					91			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5063259	0.04621	46			

QC Flag Legend

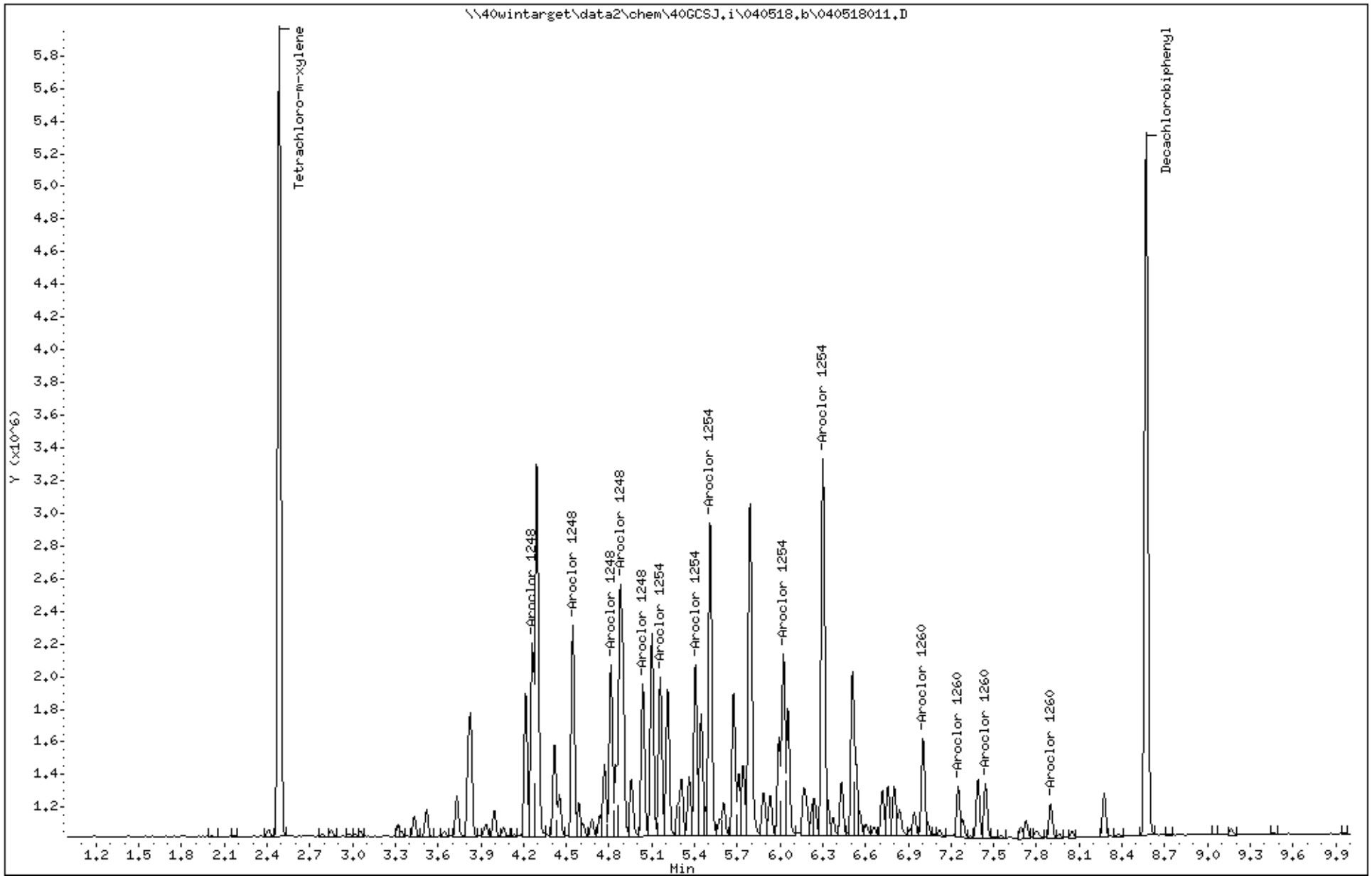
M - Compound response manually integrated.

Review Codes Legend

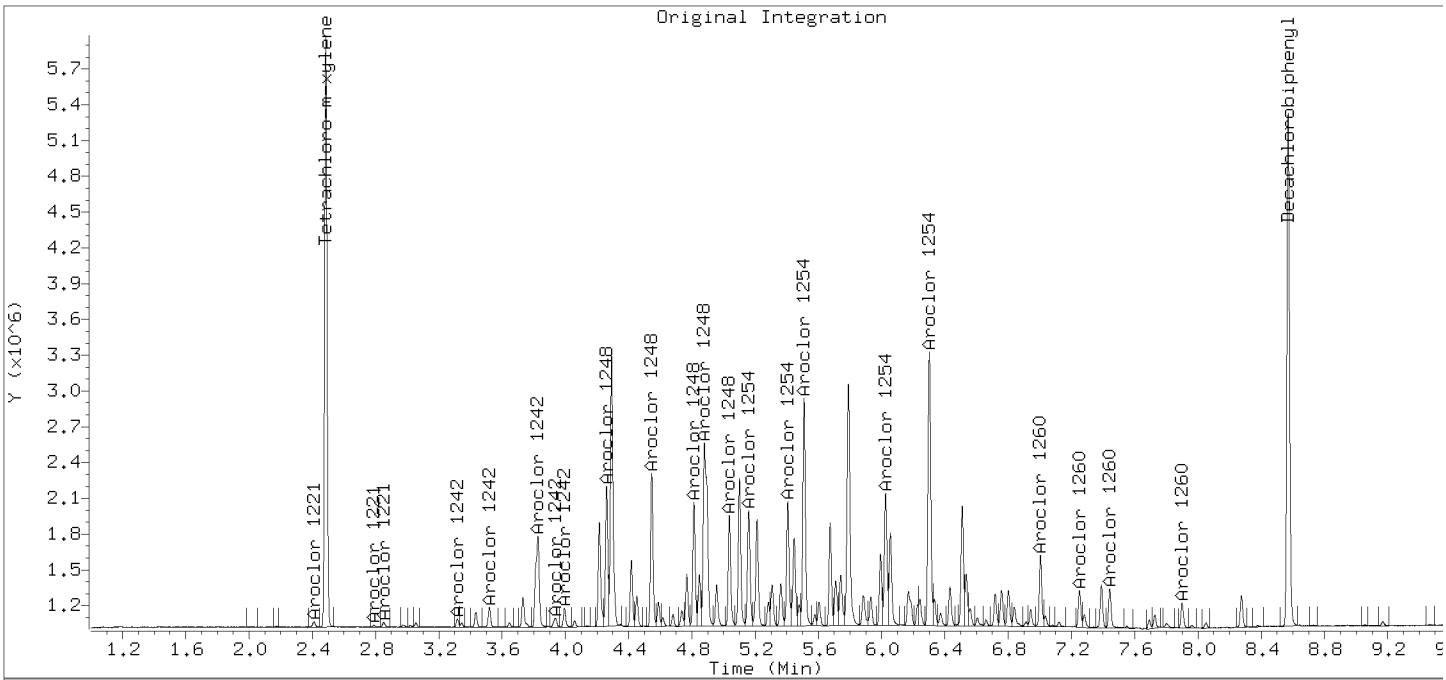
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

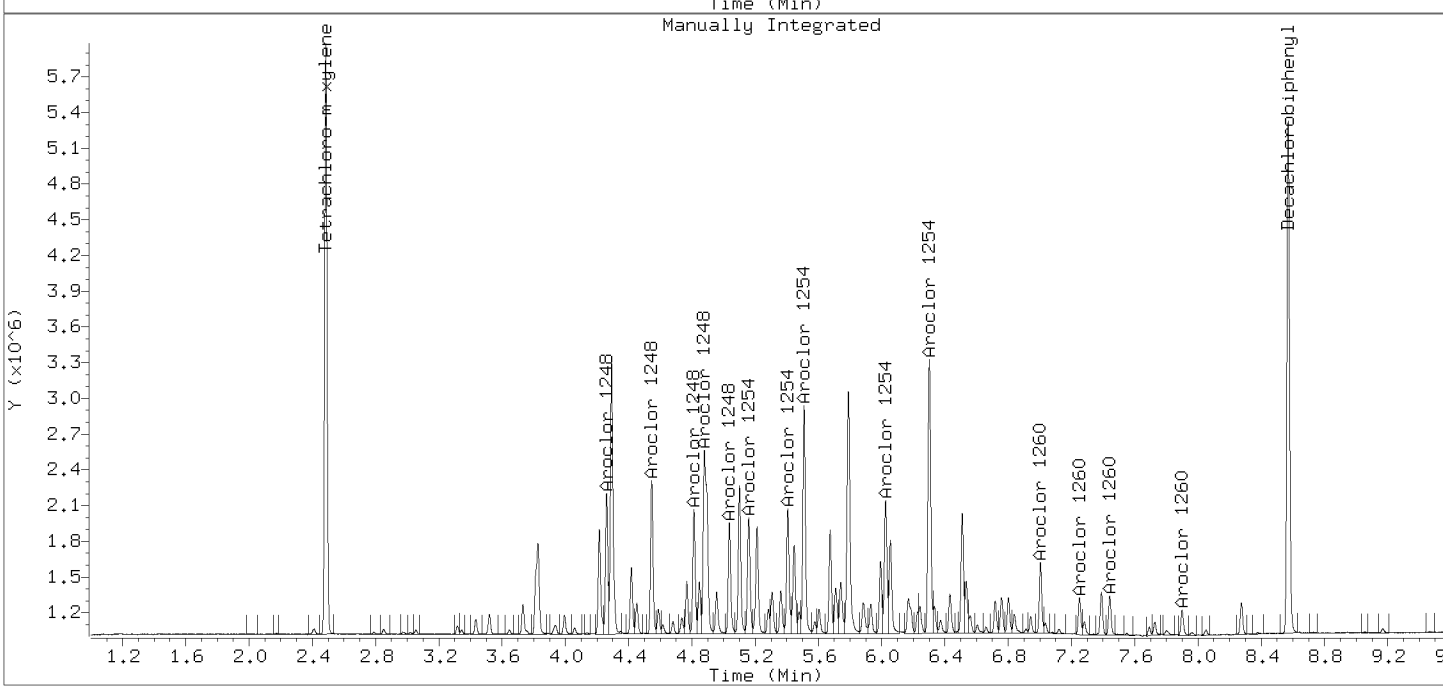
Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518011.D
Date : 05-APR-2018 15:58
Client ID: SW2-170614-01-BB-04
Sample Info: 40157488012 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 15:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	74395	0	
Aroclor 1016	74395	0	
Aroclor 1016	74395	0	
Aroclor 1016	74395	0	
Aroclor 1016	74395	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	53116	0	
Aroclor 1232	53116	0	
Aroclor 1232	53116	0	
Aroclor 1232	53116	0	

Aroclor 1232	53116	0	
Aroclor 1242	74395	0	
Aroclor 1242	74395	0	
Aroclor 1242	74395	0	
Aroclor 1242	74395	0	
Aroclor 1242	74395	0	
Aroclor 1248	1246872	1261509	BA
Aroclor 1248	1246872	1261509	BA
Aroclor 1248	1246872	1261509	BA
Aroclor 1248	1246872	1261509	BA
Aroclor 1248	1246872	1261509	BA
Aroclor 1254	1140563	1158920	BA
Aroclor 1254	1140563	1158920	BA
Aroclor 1254	1140563	1158920	BA
Aroclor 1254	1140563	1158920	BA
Aroclor 1254	1140563	1158920	BA
Aroclor 1260	2856880	0	CO
Aroclor 1260	2856880	0	CO
Aroclor 1260	2856880	0	CO
Aroclor 1260	2856880	0	CO
Aroclor 1260	2856880	0	CO
Tetrachloro-m-xylene	5249523	5249523	
Decachlorobiphenyl	5063259	5063259	

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SAMPLE NO.

SW2-170614-01-BB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/03/2018 07:20
Lab Sample ID: 40157488013
Date Analyzed: 04/05/2018 16:14
Lab File ID: 040518.B\040518012.D
Initial wt/vol: 9.9826 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ 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)	57.1	J
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	525	
11097-69-1	PCB-1254 (Aroclor 1254)	371	
11096-82-5	PCB-1260 (Aroclor 1260)	118	
1336-36-3	PCB, Total	1070	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518012.D
Lab Smp Id: 40157488013 Client Smp ID: SW2-170614-01-BB-03
Inj Date : 05-APR-2018 16:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488013 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.171	19067	13324	0.699	0.02			
2.317	11084	10088	0.910	0.01			
2.411	92834	68715	0.740	0.14		1 Aroclor 1221	BA
2.485	5427786	4989339	0.919	8.83	$	2 Tetrachloro-m-xylene	BA
2.684	16338	10113	0.619	0.02		1 Aroclor 1221	BA
2.791	29429	20460	0.695	0.04		1 Aroclor 1221	BA
2.849	65361	55053	0.842	0.10		1 Aroclor 1221	BA
2.975	36256	21955	0.606	0.05			
3.020	27753	23250	0.838	0.04			
3.055	39734	36140	0.910	0.06			
3.318	72953	68967	0.945	0.11			
3.345	82168	72915	0.887	0.12			
3.433	195614	180179	0.921	0.30			
3.518	222201	197622	0.889	0.34			
3.644	44155	38971	0.883	0.06			
3.731	376095	304695	0.810	0.58			
3.826	1470098	912266	0.621	2.27			
3.937	83224	46410	0.558	0.12			
3.995	180371	160245	0.888	0.27			
4.060	85109	70448	0.828	0.13			
4.134	32992	20253	0.614	0.05			
4.215	877890	783230	0.892	1.35			
4.261	1511676	1430762	0.946	2.33		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2885616	2403625	0.833	4.45	
4.417	648228	605150	0.934	1.00	
4.453	406501	358284	0.881	0.62	
4.546	1390828	1259271	0.905	2.14	6 Aroclor 1248
4.588	216499	195648	0.904	0.33	
4.617	129071	117445	0.910	0.19	
4.680	133502	115999	0.869	0.20	
4.737	152675	120105	0.787	0.23	
4.768	432079	406697	0.941	0.66	
4.813	1454532	1345179	0.925	2.24	6 Aroclor 1248
4.848	590357	558956	0.947	0.91	
4.879	3238788	2082442	0.643	5.00	6 Aroclor 1248
4.957	493156	408883	0.829	0.76	
5.037	1004668	913143	0.909	1.55	6 Aroclor 1248
5.101	1327484	1147308	0.864	2.04	
5.160	1418502	1197426	0.844	2.19	7 Aroclor 1254
5.211	1319900	1128207	0.855	2.03	
5.284	249239	229450	0.921	0.38	
5.308	390620	325725	0.834	0.60	
5.363	553761	504431	0.911	0.85	
5.406	1289366	1152392	0.894	1.99	7 Aroclor 1254
5.447	1036124	871173	0.841	1.59	
5.478	121145	120324	0.993	0.18	
5.509	2626101	2285376	0.870	4.05	7 Aroclor 1254
5.576	115668	102670	0.888	0.17	
5.604	314371	259702	0.826	0.48	
5.675	596707	555669	0.931	0.92	
5.709	454624	363912	0.800	0.70	
5.742	739796	580385	0.785	1.14	
5.790	3866437	2972295	0.769	5.97	
5.885	370849	270750	0.730	0.57	
5.931	372967	268236	0.719	0.57	
5.992	894285	838185	0.937	1.38	
6.024	1706015	1430693	0.839	2.63	7 Aroclor 1254
6.054	1282741	1031684	0.804	1.98	
6.169	546088	383131	0.702	0.84	
6.228	220614	248351	1.126	0.34	
6.240	370085	305049	0.824	0.57	
6.301	3840576	3082202	0.803	5.93	7 Aroclor 1254
6.332	357103	322071	0.902	0.55	
6.372	183815	141080	0.768	0.28	
6.432	450892	362780	0.805	0.69	
6.510	1706069	1559269	0.914	2.63	
6.535	641059	558646	0.871	0.98	
6.559	219127	203272	0.928	0.33	
6.605	118283	102647	0.868	0.18	
6.626	28201	31318	1.111	0.04	
6.660	72837	69226	0.950	0.11	
6.718	369821	328114	0.887	0.57	
6.759	431564	363282	0.842	0.66	
6.801	494640	442956	0.896	0.76	
6.839	252542	187091	0.741	0.38	
6.913	44104	43849	0.994	0.06	
6.943	184443	163595	0.887	0.28	
7.004	976465	868074	0.889	1.50	8 Aroclor 1260
7.035	140619	128137	0.911	0.21	
7.075	16416	16438	1.001	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	45611	38964	0.854	0.07	
7.190	15581	9242	0.593	0.02	
7.250	467246	417115	0.893	0.72	8 Aroclor 1260
7.281	182687	153533	0.840	0.28	
7.339	11769	11455	0.973	0.01	
7.388	527400	465367	0.882	0.81	
7.441	465567	416121	0.894	0.71	8 Aroclor 1260
7.551	34547	24385	0.706	0.05	
7.689	100193	97307	0.971	0.15	
7.727	134582	119835	0.890	0.20	
7.800	68297	43529	0.637	0.10	
7.898	304357	260502	0.856	0.46	8 Aroclor 1260
7.961	41712	26204	0.628	0.06	
8.049	52731	40938	0.776	0.08	
8.179	11092	10151	0.915	0.01	
8.273	326445	281787	0.863	0.50	
8.375	11294	9443	0.836	0.01	
8.452	17481	9637	0.551	0.02	
8.570	5013050	4369707	0.872	7.74	$ 12 Decachlorobiphenyl
9.169	39812	33434	0.840	0.06	
	64760207	54811454		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518012.D
Lab Smp Id: 40157488013 Client Smp ID: SW2-170614-01-BB-03
Inj Date : 05-APR-2018 16:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488013 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.411	2.407	0.004	92833	0.16945	170	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	16338	0.01181	12	0.00- 20.00	0.00	BA
2.791	2.789	0.002	29428	0.02661	27	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	65360	0.02008	20	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					57			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5427785	0.04402	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1511676	0.64520	650	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1390827	0.33511	340	0.00- 20.00	92.01	BA
4.812	4.812	0.000	1454531	0.71649	720	0.00- 20.00	96.22	BA
4.878	4.879	-0.001	3238788	0.64294	640	0.00- 20.00	214.25	BA
5.036	5.038	-0.002	1004668	0.27997	280	0.00- 20.00	66.46	BA
Average of Peak Concentrations =					520			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1418502	0.27095	270	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1289366	0.29978	300	0.00- 20.00	90.90	BA
5.509	5.510	-0.001	2626101	0.33815	340	0.00- 20.00	185.13	BA
6.024	6.027	-0.003	1706015	0.35033	350	0.00- 20.00	120.27	BA
6.300	6.299	0.001	3840575	0.59021	590	0.00- 20.00	270.75	BA
Average of Peak Concentrations =					370			
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	976464	0.09751	98	0.00- 20.00	25.42	BA
7.250	7.251	-0.001	467245	0.09775	98	0.00- 20.00	12.17	BA
7.440	7.443	-0.003	465567	0.15971	160	0.00- 20.00	12.12	BA
7.898	7.901	-0.003	304356	0.11534	120	0.00- 20.00	7.92	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5013049	0.04576	46			

QC Flag Legend

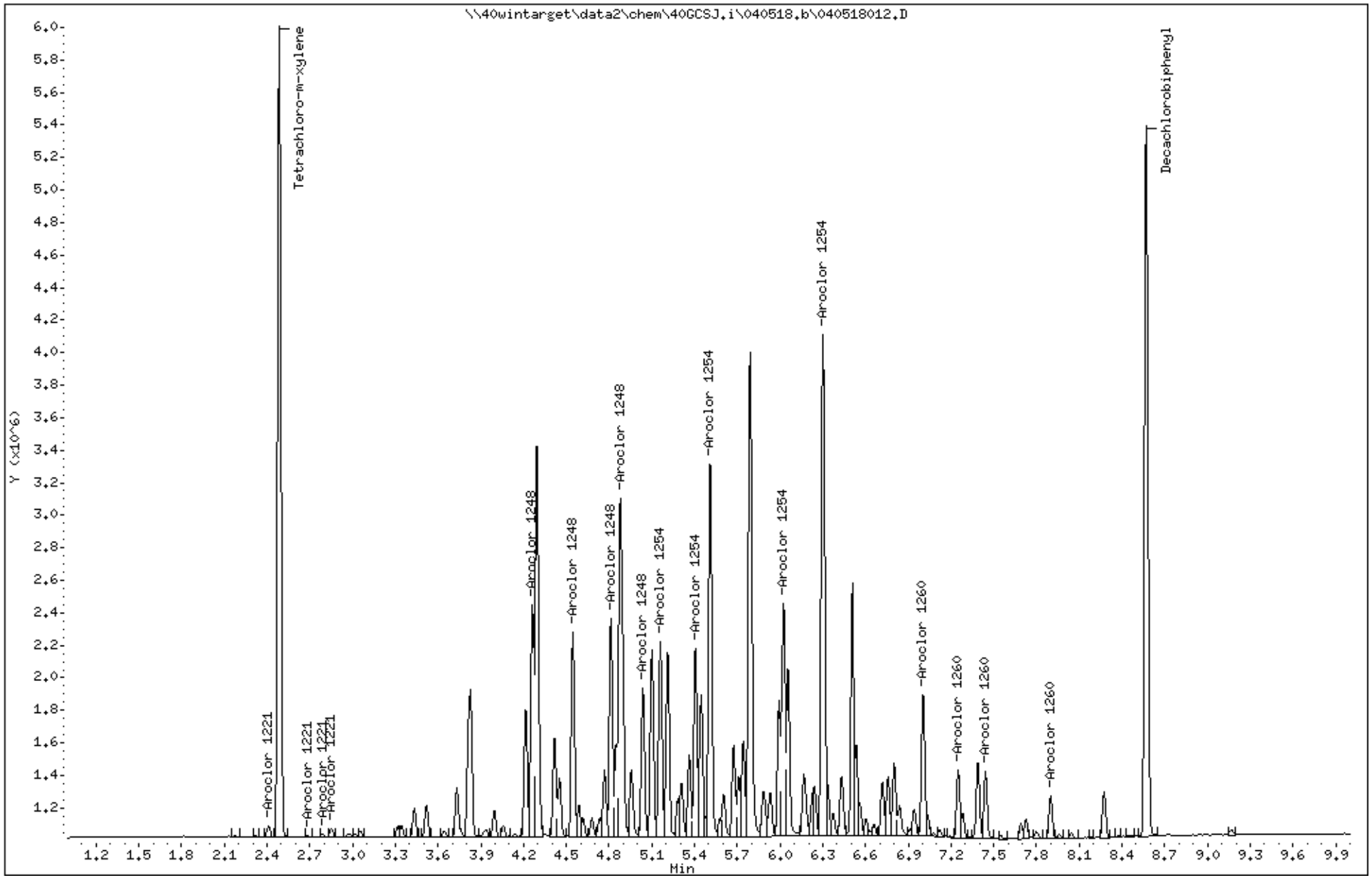
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518012.D
Date : 05-APR-2018 16:14
Client ID: SW2-170614-01-BB-03
Sample Info: 40157488013 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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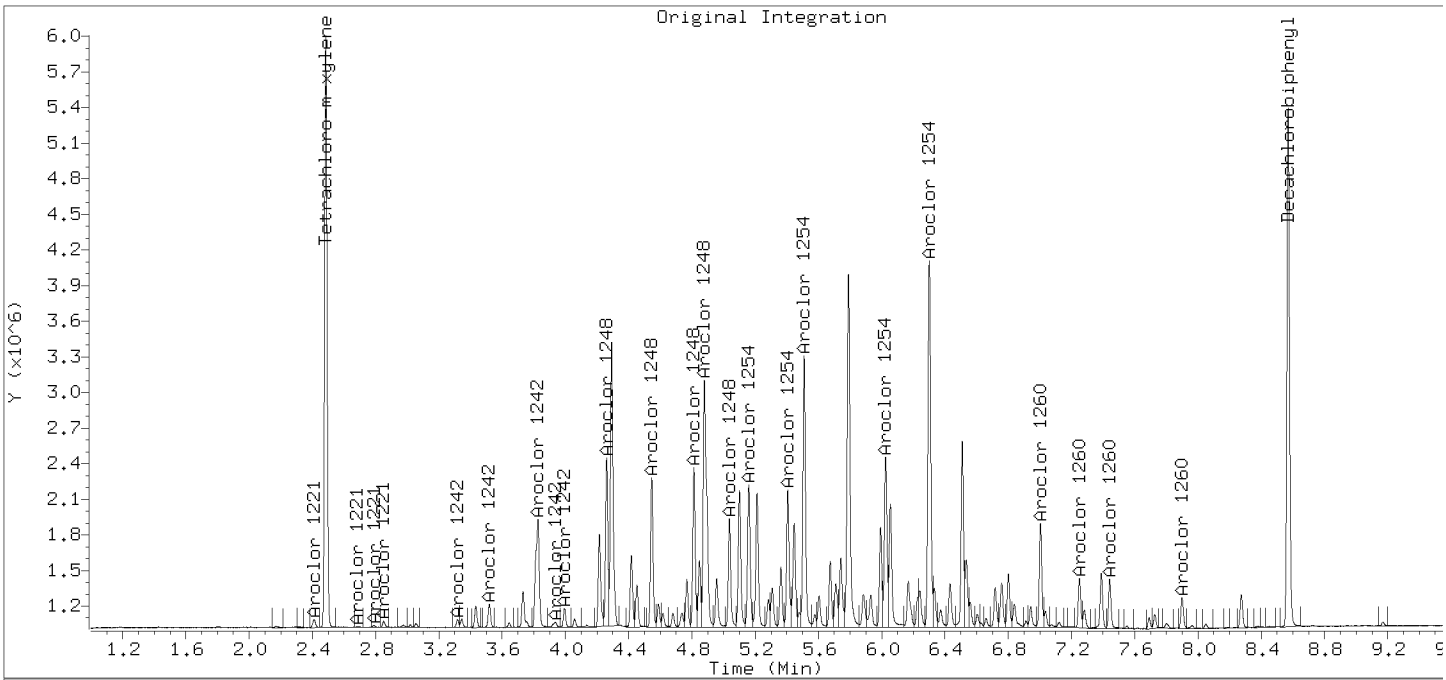
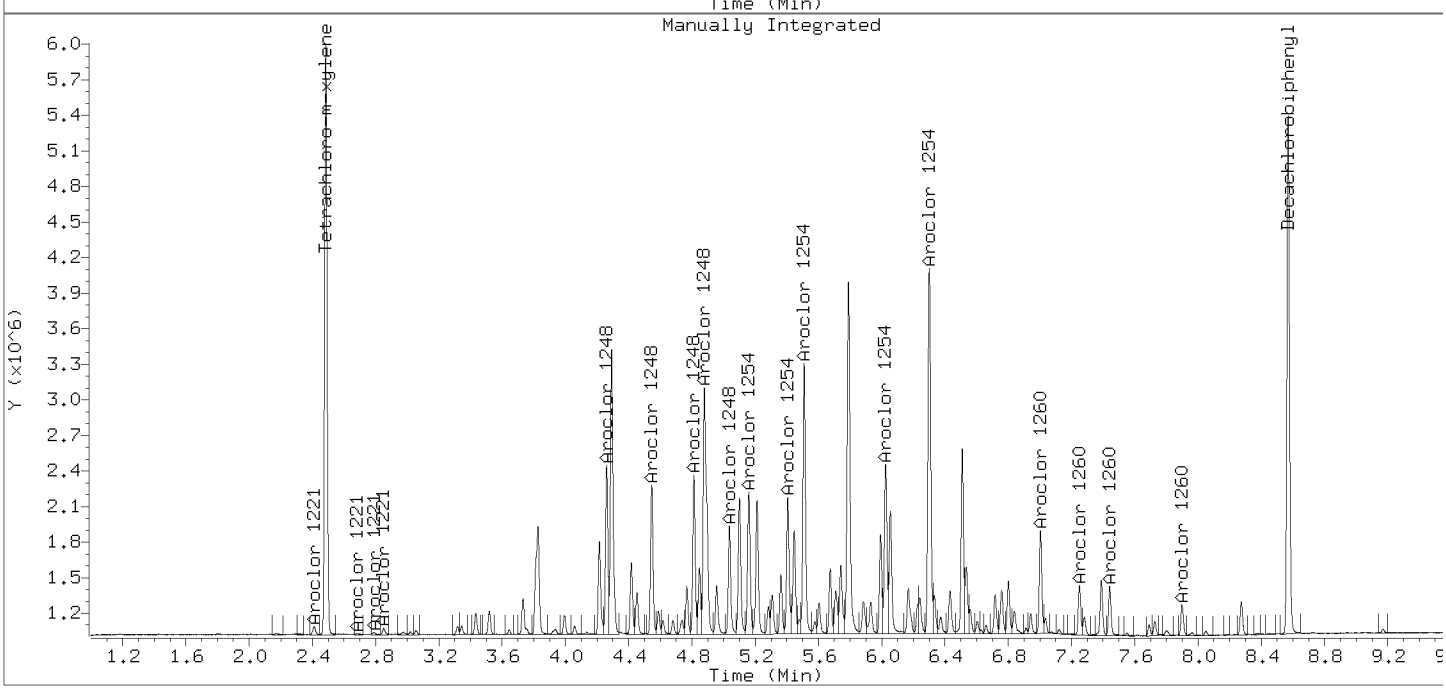
Injection Date: 05-APR-2018 16:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	71386	0	
Aroclor 1016	71386	0	
Aroclor 1016	71386	0	
Aroclor 1016	71386	0	
Aroclor 1016	71386	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	61245	0	
Aroclor 1232	61245	0	
Aroclor 1232	61245	0	
Aroclor 1232	61245	0	

Aroclor 1232	61245	0	
Aroclor 1242	71386	0	
Aroclor 1242	71386	0	
Aroclor 1242	71386	0	
Aroclor 1242	71386	0	
Aroclor 1242	71386	0	
Aroclor 1248	1479868	1511676	BA
Aroclor 1248	1479868	1511676	BA
Aroclor 1248	1479868	1511676	BA
Aroclor 1248	1479868	1511676	BA
Aroclor 1248	1479868	1511676	BA
Aroclor 1254	1419757	1418502	BA
Aroclor 1254	1419757	1418502	BA
Aroclor 1254	1419757	1418502	BA
Aroclor 1254	1419757	1418502	BA
Aroclor 1254	1419757	1418502	BA
Aroclor 1260	3854837	0	BA
Aroclor 1260	3854837	0	BA
Aroclor 1260	3854837	0	BA
Aroclor 1260	3854837	0	BA
Aroclor 1260	3854837	0	BA
Tetrachloro-m-xylene	5408694	5427785	BA
Decachlorobiphenyl	5013049	5013049	

==========

SAMPLE NO.

SW2-170614-01-BB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/03/2018 07:20
Lab Sample ID: 40157488014
Date Analyzed: 04/05/2018 16:30
Lab File ID: 040518.B\040518013.D
Initial wt/vol: 10.0136 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ 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)	57.8	J
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	394	
11097-69-1	PCB-1254 (Aroclor 1254)	248	
11096-82-5	PCB-1260 (Aroclor 1260)	86.9	J
1336-36-3	PCB, Total	787	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518013.D
Lab Smp Id: 40157488014 Client Smp ID: SW2-170614-01-BB-02
Inj Date : 05-APR-2018 16:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488014 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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) * CpndV

Name	Value	Description
DF	2.000	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	10.014	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.411	92481	74046	0.801	0.17		1 Aroclor 1221	BA
2.484	5932249	5710012	0.963	11.89	$	2 Tetrachloro-m-xylene	BA
2.683	16105	11846	0.736	0.03		1 Aroclor 1221	BA
2.789	30944	28091	0.908	0.05		1 Aroclor 1221	BA
2.851	74988	60307	0.804	0.14		1 Aroclor 1221	BA
2.970	29624	15917	0.537	0.05			
3.020	23758	22910	0.964	0.04			
3.053	44567	41877	0.940	0.08			
3.317	110414	107591	0.974	0.21			
3.343	104323	92200	0.884	0.20			
3.433	266639	252641	0.948	0.51			
3.518	250147	227819	0.911	0.48			
3.643	56077	48174	0.859	0.10			
3.732	376813	313549	0.832	0.72			
3.814	457784	572632	1.251	0.87			
3.826	676617	624445	0.923	1.30			
3.936	81841	46349	0.566	0.15			
3.995	137649	126698	0.920	0.26			
4.058	81543	74464	0.913	0.15			
4.135	28653	25876	0.903	0.05			
4.214	889007	756676	0.851	1.70			
4.261	1326824	1236185	0.932	2.54		6 Aroclor 1248	BA
4.292	2461096	2074612	0.843	4.72			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	429775	399835	0.930	0.82	
4.452	319747	288781	0.903	0.61	
4.545	1126102	1045211	0.928	2.16	6 Aroclor 1248
4.589	229540	207161	0.903	0.44	
4.617	135126	115066	0.852	0.25	
4.681	143330	126346	0.882	0.27	
4.737	148263	122475	0.826	0.28	
4.768	336529	313286	0.931	0.64	
4.813	992921	936033	0.943	1.90	6 Aroclor 1248
4.847	345745	325109	0.940	0.66	
4.880	2399884	1289803	0.537	4.61	6 Aroclor 1248
4.957	445776	371679	0.834	0.85	
5.037	614237	547305	0.891	1.18	6 Aroclor 1248
5.101	1195144	1035033	0.866	2.29	
5.158	941074	783993	0.833	1.80	7 Aroclor 1254
5.212	857435	733761	0.856	1.64	
5.284	195265	188863	0.967	0.37	
5.308	323830	269193	0.831	0.62	
5.362	362128	313038	0.864	0.69	
5.406	913160	801995	0.878	1.75	7 Aroclor 1254
5.448	763314	641678	0.841	1.46	
5.478	164674	155051	0.942	0.31	
5.510	1671496	1423203	0.851	3.21	7 Aroclor 1254
5.578	101268	90602	0.895	0.19	
5.603	235734	194929	0.827	0.45	
5.675	791862	739248	0.934	1.52	
5.709	397360	327043	0.823	0.76	
5.742	526111	420024	0.798	1.01	
5.789	2509341	1858606	0.741	4.82	
5.885	306068	229943	0.751	0.58	
5.930	316105	245490	0.777	0.60	
5.993	659036	601989	0.913	1.26	
6.026	1139928	950812	0.834	2.19	7 Aroclor 1254
6.055	707737	593466	0.839	1.36	
6.169	459537	261018	0.568	0.88	
6.227	121509	169687	1.397	0.23	
6.241	295147	211670	0.717	0.56	
6.302	2599114	2123055	0.817	4.99	7 Aroclor 1254
6.332	199148	212907	1.069	0.38	
6.373	124314	97422	0.784	0.23	
6.431	394830	329323	0.834	0.75	
6.509	1075132	980411	0.912	2.06	
6.535	430344	386019	0.897	0.82	
6.560	146214	145609	0.996	0.28	
6.606	81664	63267	0.775	0.15	
6.661	55856	49863	0.893	0.10	
6.717	278708	243049	0.872	0.53	
6.758	339196	300940	0.887	0.65	
6.801	328080	290604	0.886	0.63	
6.838	201555	146328	0.726	0.38	
6.911	41047	41364	1.008	0.07	
6.941	153764	135793	0.883	0.29	
7.004	664115	621733	0.936	1.27	8 Aroclor 1260
7.034	71946	76673	1.066	0.13	
7.122	44853	34964	0.780	0.08	
7.250	337529	298910	0.886	0.64	8 Aroclor 1260
7.281	129457	106551	0.823	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.333	13177	12224	0.928	0.02	
7.389	364806	320000	0.877	0.70	
7.442	358737	317193	0.884	0.68	8 Aroclor 1260
7.550	18642	18060	0.969	0.03	
7.691	77231	76567	0.991	0.14	
7.727	118698	103815	0.875	0.22	
7.802	75335	43849	0.582	0.14	
7.899	232846	198850	0.854	0.44	8 Aroclor 1260
7.961	42279	22786	0.539	0.08	
8.048	68186	54460	0.799	0.13	
8.274	271999	236475	0.869	0.52	
8.455	11628	7233	0.622	0.02	
8.570	5457130	4799269	0.879	10.48	$ 12 Decachlorobiphenyl
8.722	12314	9636	0.783	0.02	
9.052	12886	9007	0.699	0.02	
9.168	34803	30778	0.884	0.06	
	52038942	44818329		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518013.D
Lab Smp Id: 40157488014 Client Smp ID: SW2-170614-01-BB-02
Inj Date : 05-APR-2018 16:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488014 x2,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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) * CpndV

Name	Value	Description
DF	2.000	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	10.014	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
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	92481	0.16881	170	0.00- 20.00	0.00	BA
2.682	2.688	-0.006	16105	0.01164	12	0.00- 20.00	0.00	BA
2.789	2.789	0.000	30944	0.02798	28	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	74987	0.02303	23	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					58			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932249	0.04811	48		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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

    4 Aroclor 1232                                CAS #: 1114-16-5

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

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.261    4.261    0.000         1326824 0.56630      560   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1126102 0.27133      270   0.00-  20.00    84.87         BA
4.813    4.812    0.001          992921 0.48910      490   0.00-  20.00    74.83         BA
4.879    4.879    0.000         2399884 0.47641      480   0.00-  20.00   180.87         BA
5.037    5.038   -0.001          614237 0.17117      170   0.00-  20.00    46.29         BA
               Average of Peak Concentrations =      390
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.158    5.162   -0.004          941073 0.17976      180   0.00-  20.00   100.00(M)      CO
5.406    5.408   -0.002          913159 0.21231      210   0.00-  20.00    97.03         CO
5.509    5.510   -0.001         1671496 0.21523      210   0.00-  20.00   177.62         CO
6.025    6.027   -0.002         1139928 0.23409      230   0.00-  20.00   121.13         CO
6.301    6.299    0.002         2599114 0.39943      400   0.00-  20.00   276.19         CO
               Average of Peak Concentrations =      250
-------------------------------------------------------------------------------
    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          664115 0.06632       66   0.00-  20.00    26.30         CO
7.250    7.251   -0.001          337529 0.07062       70   0.00-  20.00    12.08         CO
7.442    7.443   -0.001          358736 0.12306      120   0.00-  20.00    12.84         CO
7.899    7.901   -0.002          232845 0.08824       88   0.00-  20.00     8.33         CO
               Average of Peak Concentrations =       87
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.570    8.571   -0.001         5457129 0.04981       50
-------------------------------------------------------------------------------
```

QC Flag Legend

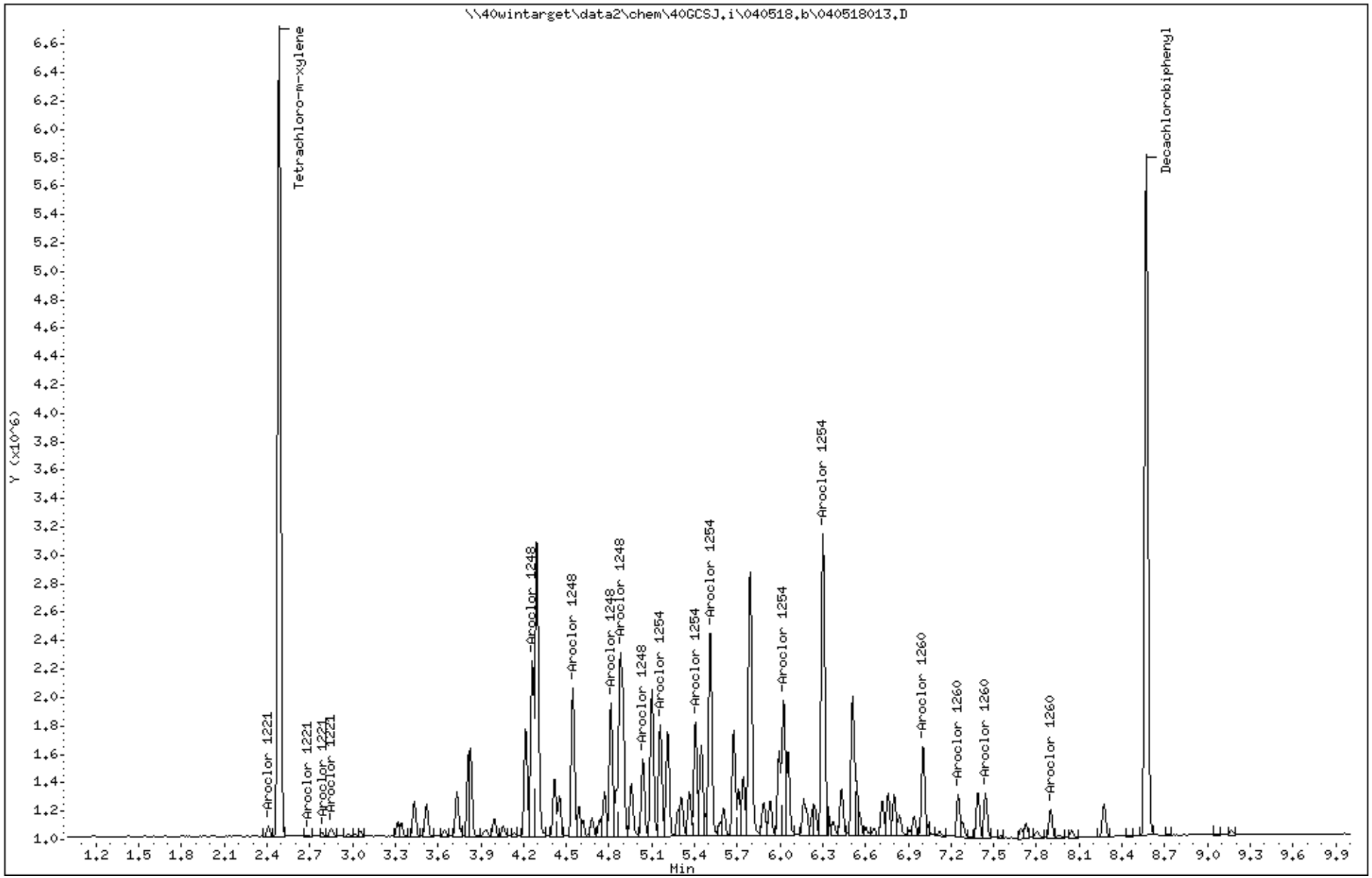
M - Compound response manually integrated.

Review Codes Legend

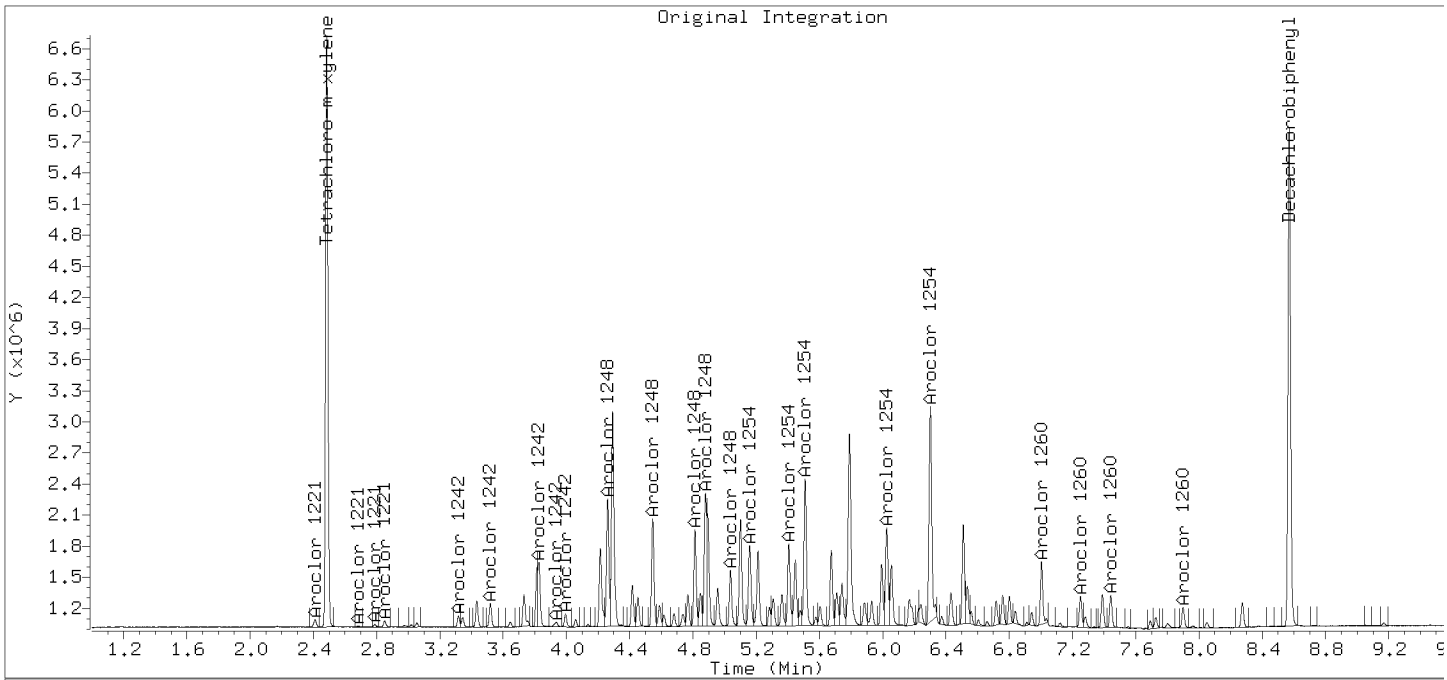
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

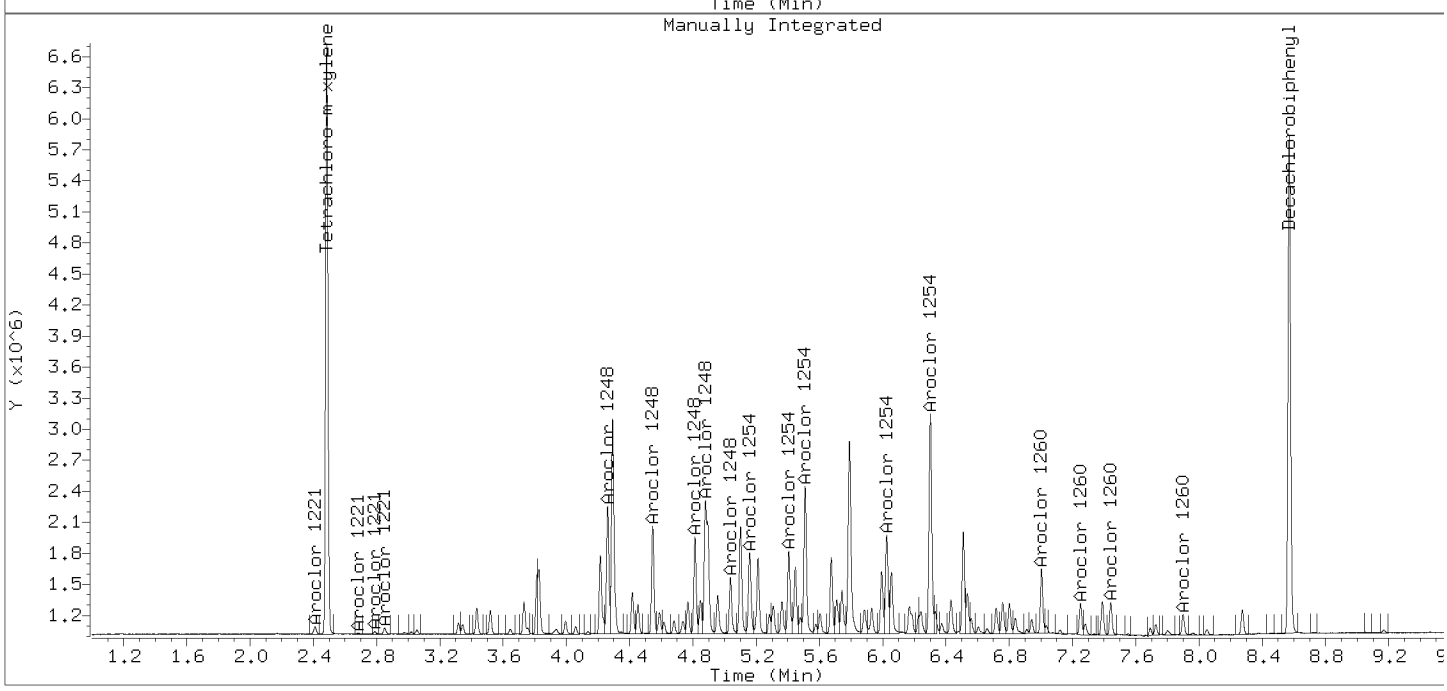
Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518013.D
Date : 05-APR-2018 16:30
Client ID: SW2-170614-01-BB-02
Sample Info: 40157488014 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 16:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	106829	0	
Aroclor 1016	106829	0	
Aroclor 1016	106829	0	
Aroclor 1016	106829	0	
Aroclor 1016	106829	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	71192	0	
Aroclor 1232	71192	0	
Aroclor 1232	71192	0	
Aroclor 1232	71192	0	

Aroclor 1232	71192	0	
Aroclor 1242	106829	0	
Aroclor 1242	106829	0	
Aroclor 1242	106829	0	
Aroclor 1242	106829	0	
Aroclor 1242	106829	0	
Aroclor 1248	1311383	1326824	BA
Aroclor 1248	1311383	1326824	BA
Aroclor 1248	1311383	1326824	BA
Aroclor 1248	1311383	1326824	BA
Aroclor 1248	1311383	1326824	BA
Aroclor 1254	918512	941073	CO
Aroclor 1254	918512	941073	CO
Aroclor 1254	918512	941073	CO
Aroclor 1254	918512	941073	CO
Aroclor 1254	918512	941073	CO
Aroclor 1260	2566674	0	CO
Aroclor 1260	2566674	0	CO
Aroclor 1260	2566674	0	CO
Aroclor 1260	2566674	0	CO
Aroclor 1260	2566674	0	CO
Tetrachloro-m-xylene	5910007	5932249	BA
Decachlorobiphenyl	5457129	5457129	

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SAMPLE NO.

SW2-170614-01-BB-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 04/03/2018 07:20
Lab Sample ID: 40157488015
Date Analyzed: 04/05/2018 16:46
Lab File ID: 040518.B\040518014.D
Initial wt/vol: 9.9782 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	596	
11097-69-1	PCB-1254 (Aroclor 1254)	463	
11096-82-5	PCB-1260 (Aroclor 1260)	148	J
1336-36-3	PCB, Total	1210	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518014.D
Lab Smp Id: 40157488015 Client Smp ID: SW2-170614-01-BB-01
Inj Date : 05-APR-2018 16:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488015 x3,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	97202	72103	0.742	0.18		
2.484	4020727	3852153	0.958	8.06	$ 2 Tetrachloro-m-xylene	
2.788	29934	22215	0.742	0.05		
2.850	60112	50098	0.833	0.11		
2.973	22475	14727	0.655	0.04		
3.021	23286	20275	0.871	0.04		
3.053	77245	71761	0.929	0.14		
3.317	75718	72576	0.959	0.14		
3.344	89693	83537	0.931	0.17		
3.434	158320	148816	0.940	0.30		
3.519	236018	210861	0.893	0.44		
3.646	40736	38806	0.953	0.07		
3.733	198830	195584	0.984	0.37		
3.757	50083	50074	1.000	0.09		
3.827	956828	532915	0.557	1.81		
3.938	90559	63135	0.697	0.17		
3.994	140730	130965	0.931	0.26		
4.059	98469	87066	0.884	0.18		
4.136	29758	24606	0.827	0.05		
4.215	1060191	946634	0.893	2.01		
4.261	1316739	1254848	0.953	2.49	6 Aroclor 1248	BA
4.292	1923707	1613303	0.839	3.64		
4.346	26367	19323	0.733	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	571596	535223	0.936	1.08	
4.452	359719	318535	0.886	0.68	
4.546	1085742	999919	0.921	2.05	6 Aroclor 1248
4.589	168810	158826	0.941	0.32	
4.617	129166	111147	0.861	0.24	
4.680	126410	113147	0.895	0.23	
4.737	148799	122454	0.823	0.28	
4.767	311786	285264	0.915	0.59	
4.813	976302	912743	0.935	1.85	6 Aroclor 1248
4.848	501631	479893	0.957	0.95	
4.879	2424173	1390062	0.573	4.59	6 Aroclor 1248
4.957	425735	346778	0.815	0.80	
5.037	703978	636896	0.905	1.33	6 Aroclor 1248
5.101	1171762	1006510	0.859	2.22	
5.160	1243433	1038117	0.835	2.35	7 Aroclor 1254
5.212	1130214	971053	0.859	2.14	
5.284	193194	186118	0.963	0.36	
5.308	338184	283952	0.840	0.64	
5.363	445051	412817	0.928	0.84	
5.406	1138484	1006956	0.884	2.15	7 Aroclor 1254
5.447	846948	703086	0.830	1.60	
5.478	191163	179176	0.937	0.36	
5.509	2085997	1747231	0.838	3.95	7 Aroclor 1254
5.576	112338	102597	0.913	0.21	
5.604	277762	240837	0.867	0.52	
5.674	800231	746978	0.933	1.51	
5.710	435404	370672	0.851	0.82	
5.742	582408	444359	0.763	1.10	
5.790	2954829	2232278	0.755	5.60	
5.885	344234	245244	0.712	0.65	
5.930	328464	258163	0.786	0.62	
5.993	729907	678242	0.929	1.38	
6.025	1467278	1257594	0.857	2.78	7 Aroclor 1254
6.055	1177420	916019	0.778	2.23	
6.169	596797	366541	0.614	1.13	
6.227	200657	218503	1.089	0.38	
6.242	306899	254244	0.828	0.58	
6.302	3046865	2433306	0.799	5.77	7 Aroclor 1254
6.332	308321	279957	0.908	0.58	
6.373	161118	131541	0.816	0.30	
6.432	428678	354893	0.828	0.81	
6.510	1252787	1116442	0.891	2.37	
6.535	472302	413792	0.876	0.89	
6.560	206528	193159	0.935	0.39	
6.606	109994	84924	0.772	0.20	
6.661	73334	64766	0.883	0.13	
6.719	370818	325915	0.879	0.70	
6.759	407887	354300	0.869	0.77	
6.801	424265	374330	0.882	0.80	
6.838	225251	163012	0.724	0.42	
6.911	49637	48891	0.985	0.09	
6.941	190781	175031	0.917	0.36	
7.004	847830	751205	0.886	1.60	8 Aroclor 1260
7.036	102973	98492	0.956	0.19	
7.078	14559	13715	0.942	0.02	
7.120	51126	43627	0.853	0.09	
7.251	385697	341308	0.885	0.73	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	155218	123270	0.794	0.29	
7.389	431808	387725	0.898	0.81	
7.442	411425	363143	0.883	0.78	8 Aroclor 1260
7.554	23095	20313	0.880	0.04	
7.691	82319	77247	0.938	0.15	
7.728	114089	98215	0.861	0.21	
7.802	70500	42967	0.609	0.13	
7.900	232508	200603	0.863	0.44	8 Aroclor 1260
7.962	31191	20517	0.658	0.05	
8.050	103048	83705	0.812	0.19	
8.273	235520	211371	0.897	0.44	
8.380	15982	10123	0.633	0.03	
8.570	3800613	3190195	0.839	7.20	$ 12 Decachlorobiphenyl
9.055	11228	10042	0.894	0.02	
9.168	30394	24150	0.795	0.05	
	52736327	44480747		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518014.D
Lab Smp Id: 40157488015 Client Smp ID: SW2-170614-01-BB-01
Inj Date : 05-APR-2018 16:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157488015 x3,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	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	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

2.484	2.484	0.000	4020727	0.03261		49		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1316738	0.56199	840	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1085741	0.26161	390	0.00- 20.00	82.46	BA
4.812	4.812	0.000	976301	0.48092	720	0.00- 20.00	74.15	BA
4.879	4.879	0.000	2424173	0.48123	720	0.00- 20.00	184.10	BA
5.037	5.038	-0.001	703978	0.19617	290	0.00- 20.00	53.46	BA
Average of Peak Concentrations =					600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1243432	0.23751	360	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1138483	0.26470	400	0.00- 20.00	91.56	BA
5.509	5.510	-0.001	2085997	0.26860	400	0.00- 20.00	167.76	BA
6.024	6.027	-0.003	1467277	0.30131	450	0.00- 20.00	118.00	BA
6.301	6.299	0.002	3046864	0.46824	700	0.00- 20.00	245.04	BA
Average of Peak Concentrations =					460			
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	847830	0.08466	130	0.00- 20.00	27.83	BA
7.251	7.251	0.000	385697	0.08069	120	0.00- 20.00	12.66	BA
7.442	7.443	-0.001	411424	0.14113	210	0.00- 20.00	13.50	BA
7.900	7.901	-0.001	232507	0.08811	130	0.00- 20.00	7.63	BA
Average of Peak Concentrations =					150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3800613	0.03469	52			

QC Flag Legend

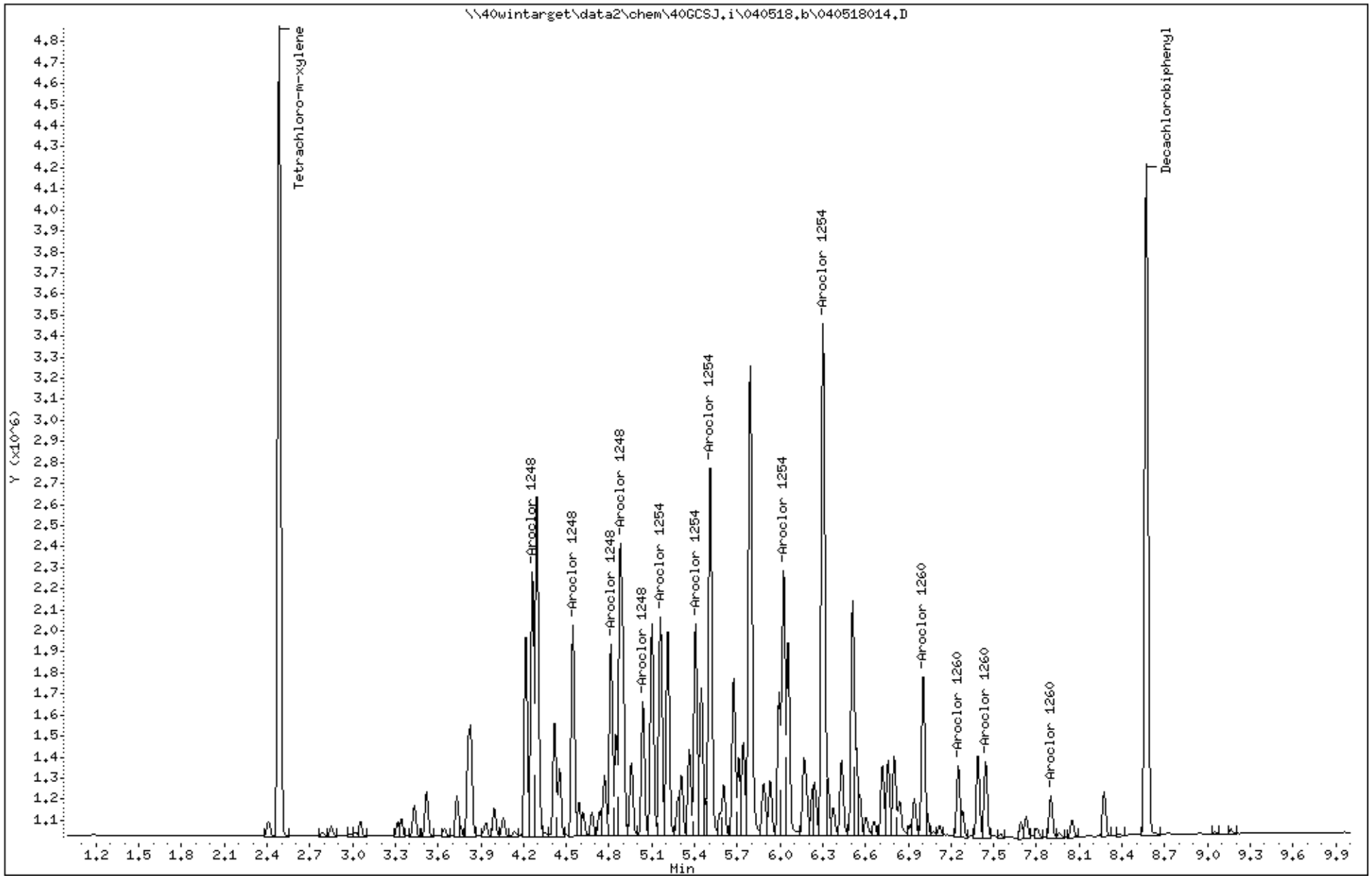
M - Compound response manually integrated.

Review Codes Legend

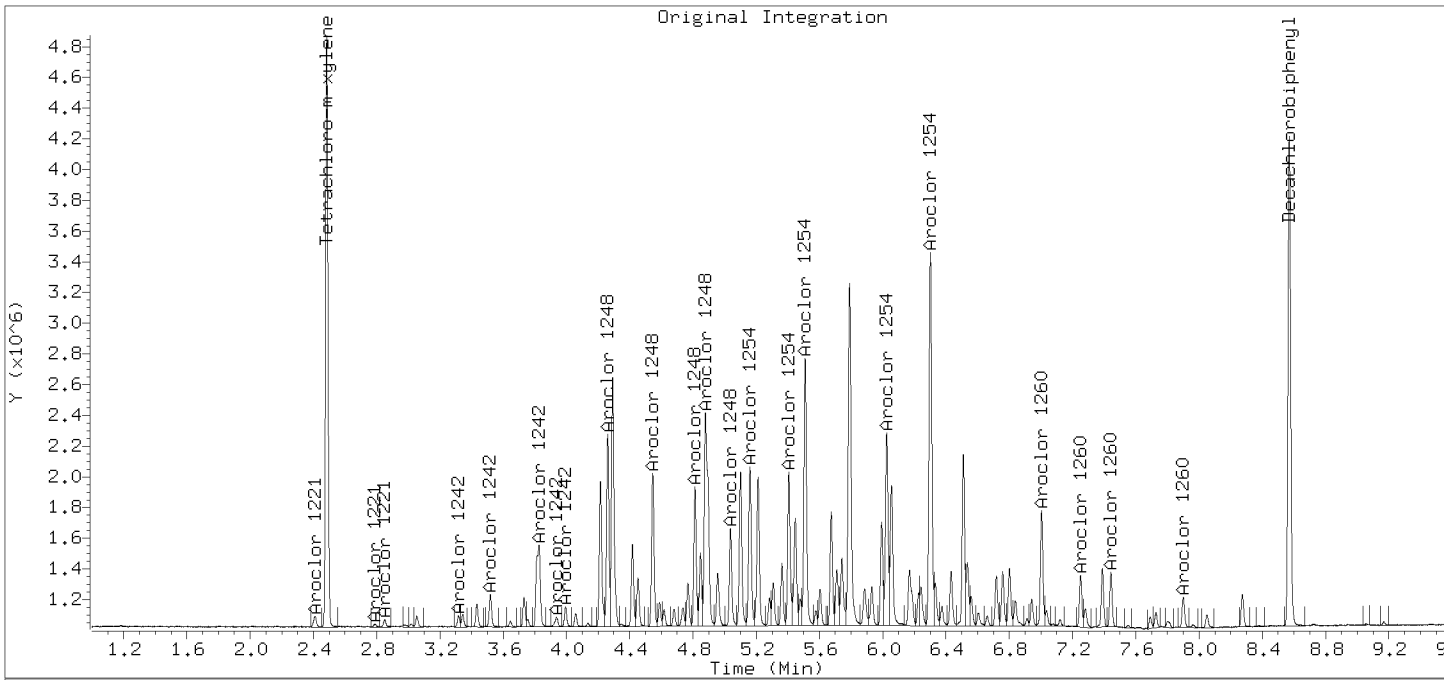
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

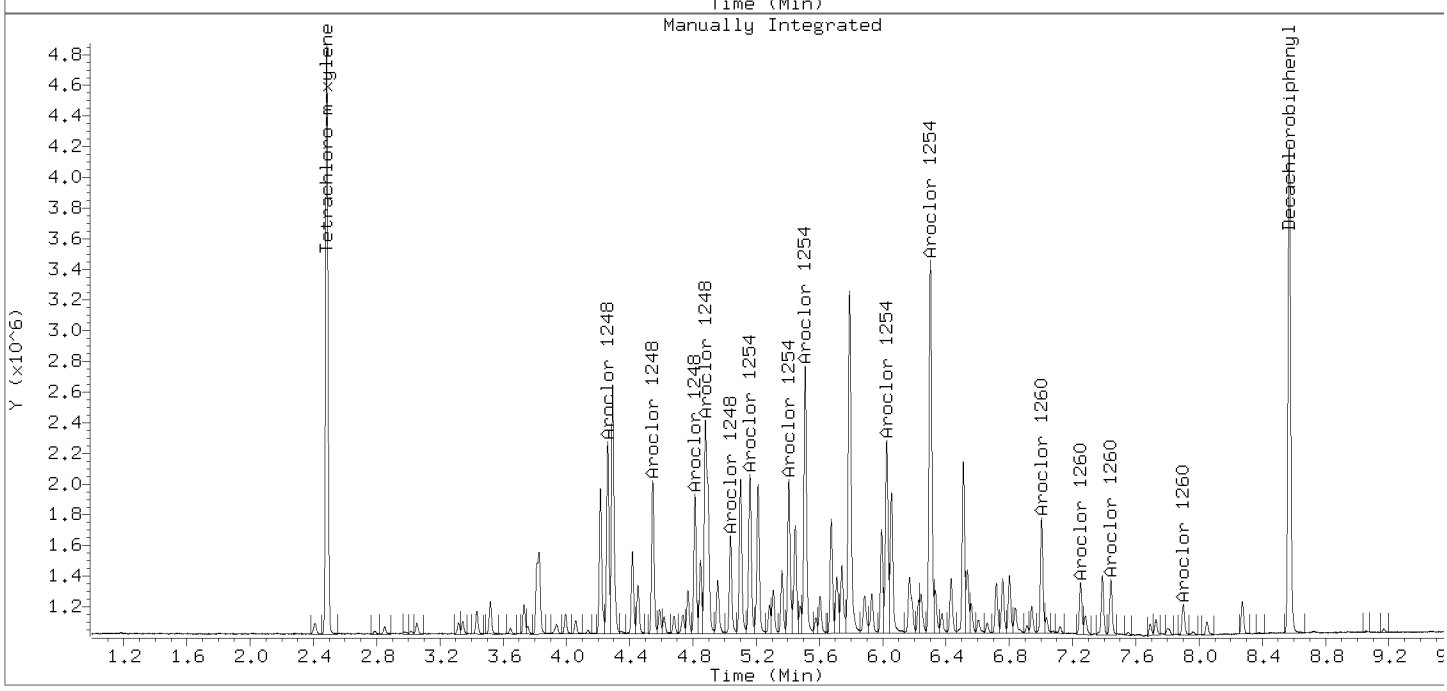
Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518014.D
Date : 05-APR-2018 16:46
Client ID: SW2-170614-01-BB-01
Sample Info: 40157488015 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 16:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157488015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	75718	0	
Aroclor 1016	75718	0	
Aroclor 1016	75718	0	
Aroclor 1016	75718	0	
Aroclor 1016	75718	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	60112	0	
Aroclor 1232	60112	0	
Aroclor 1232	60112	0	
Aroclor 1232	60112	0	

Aroclor 1232	60112	0	
Aroclor 1242	75718	0	
Aroclor 1242	75718	0	
Aroclor 1242	75718	0	
Aroclor 1242	75718	0	
Aroclor 1242	75718	0	
Aroclor 1248	1310831	1316738	BA
Aroclor 1248	1310831	1316738	BA
Aroclor 1248	1310831	1316738	BA
Aroclor 1248	1310831	1316738	BA
Aroclor 1248	1310831	1316738	BA
Aroclor 1254	1228443	1243432	BA
Aroclor 1254	1228443	1243432	BA
Aroclor 1254	1228443	1243432	BA
Aroclor 1254	1228443	1243432	BA
Aroclor 1254	1228443	1243432	BA
Aroclor 1260	3037123	0	BA
Aroclor 1260	3037123	0	BA
Aroclor 1260	3037123	0	BA
Aroclor 1260	3037123	0	BA
Aroclor 1260	3037123	0	BA
Tetrachloro-m-xylene	4020727	4020727	
Decachlorobiphenyl	3800613	3800613	

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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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.

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

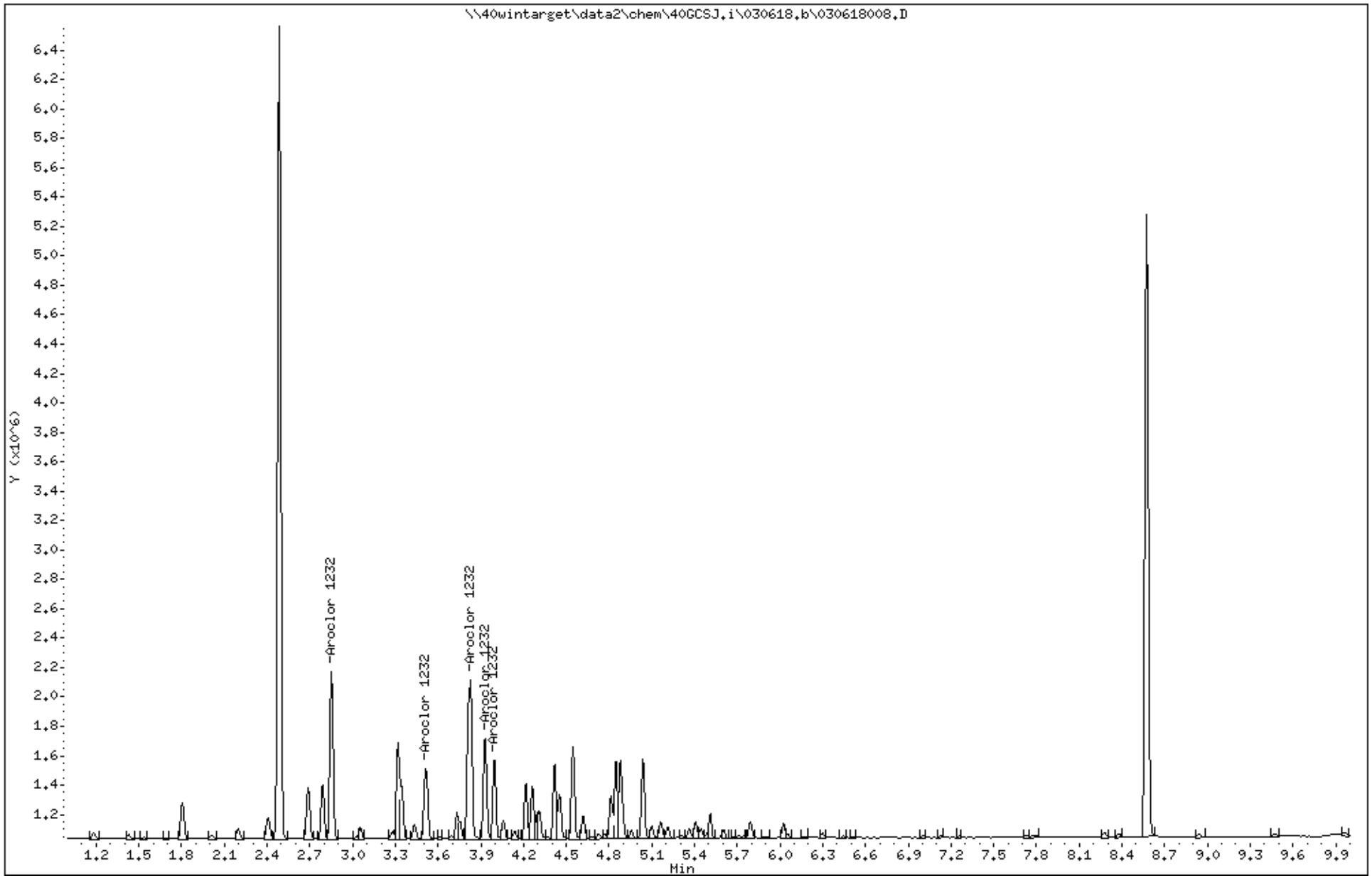
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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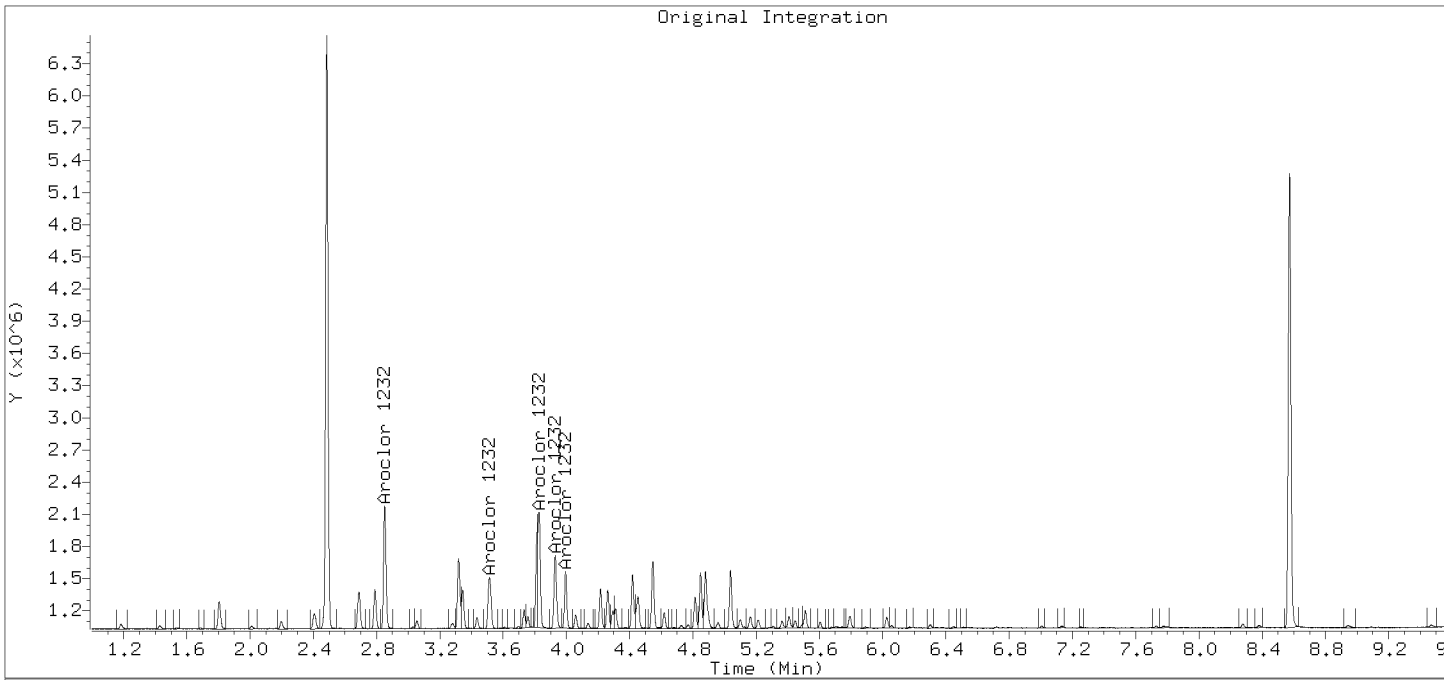
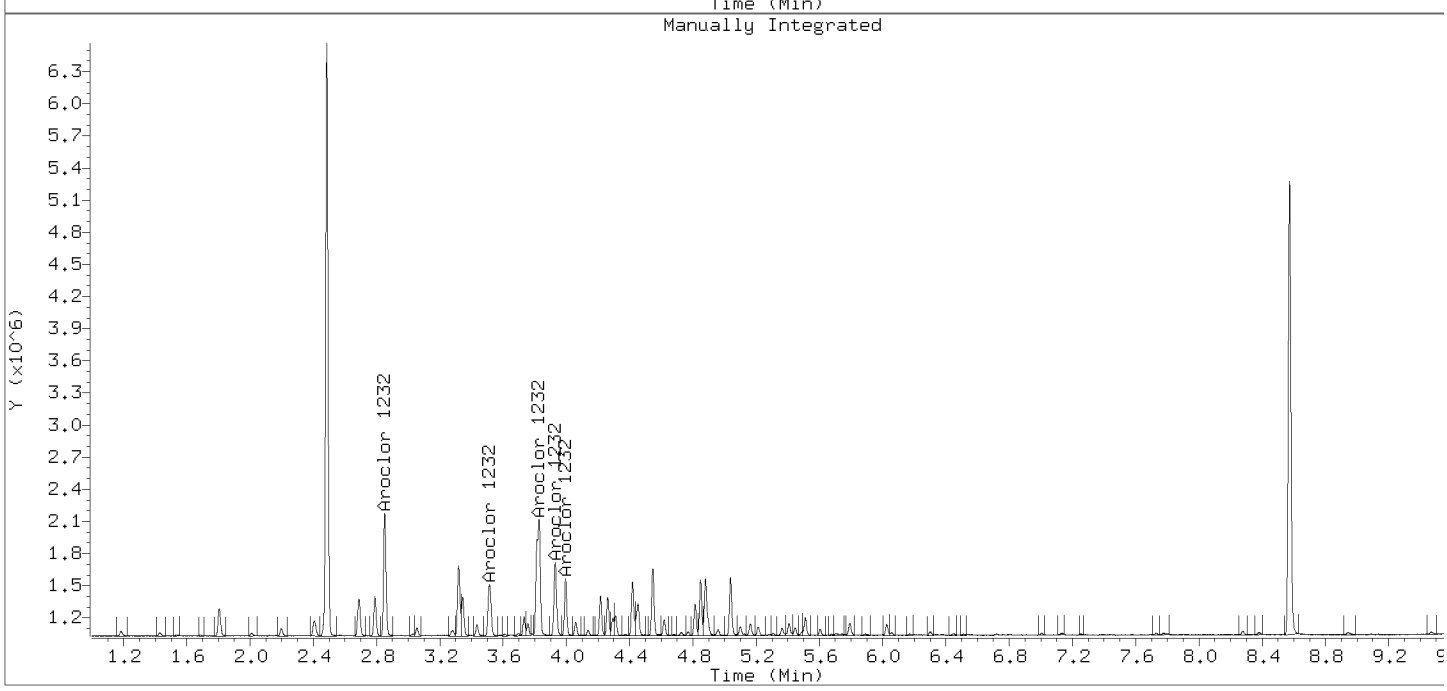
Injection Date: 06-MAR-2018 11:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CAL3S





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

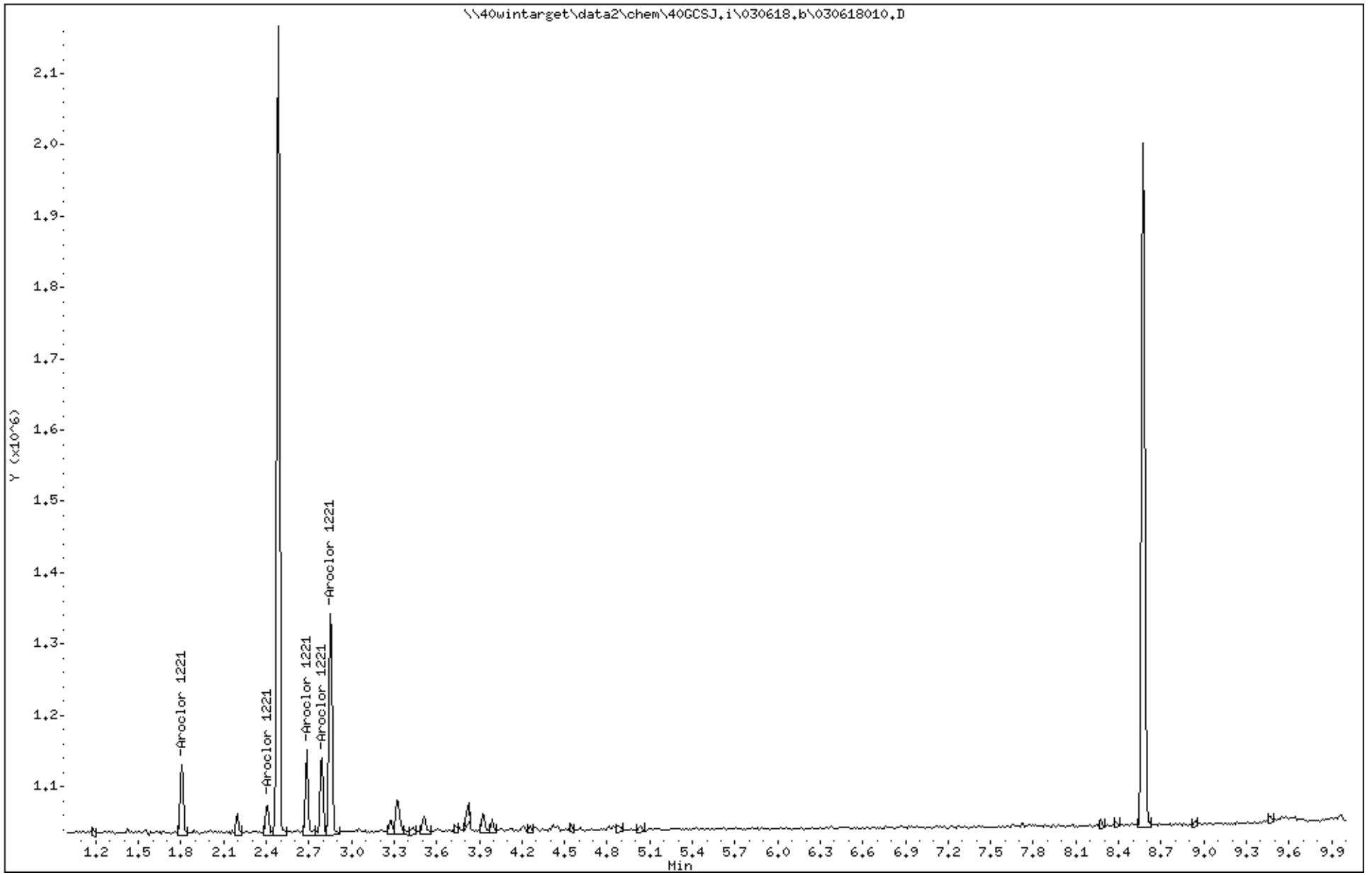
M - Compound response manually integrated.

Review Codes Legend

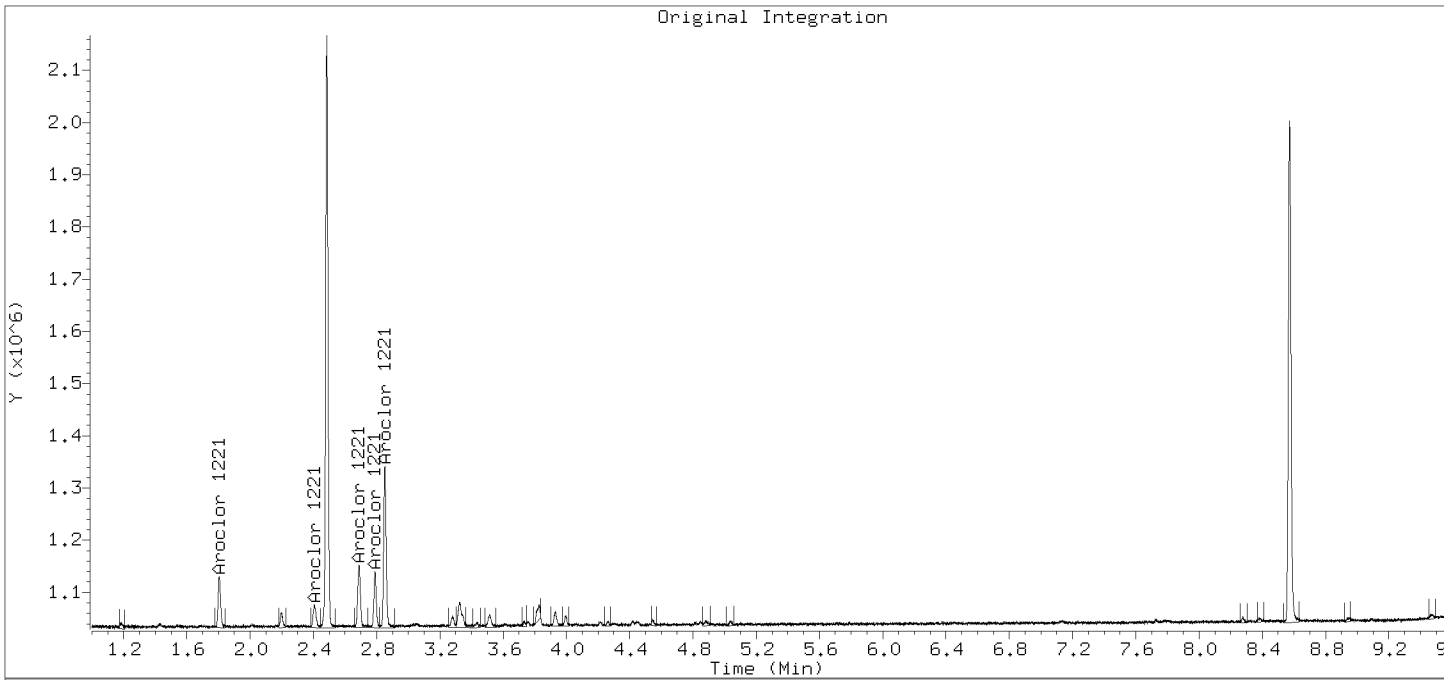
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

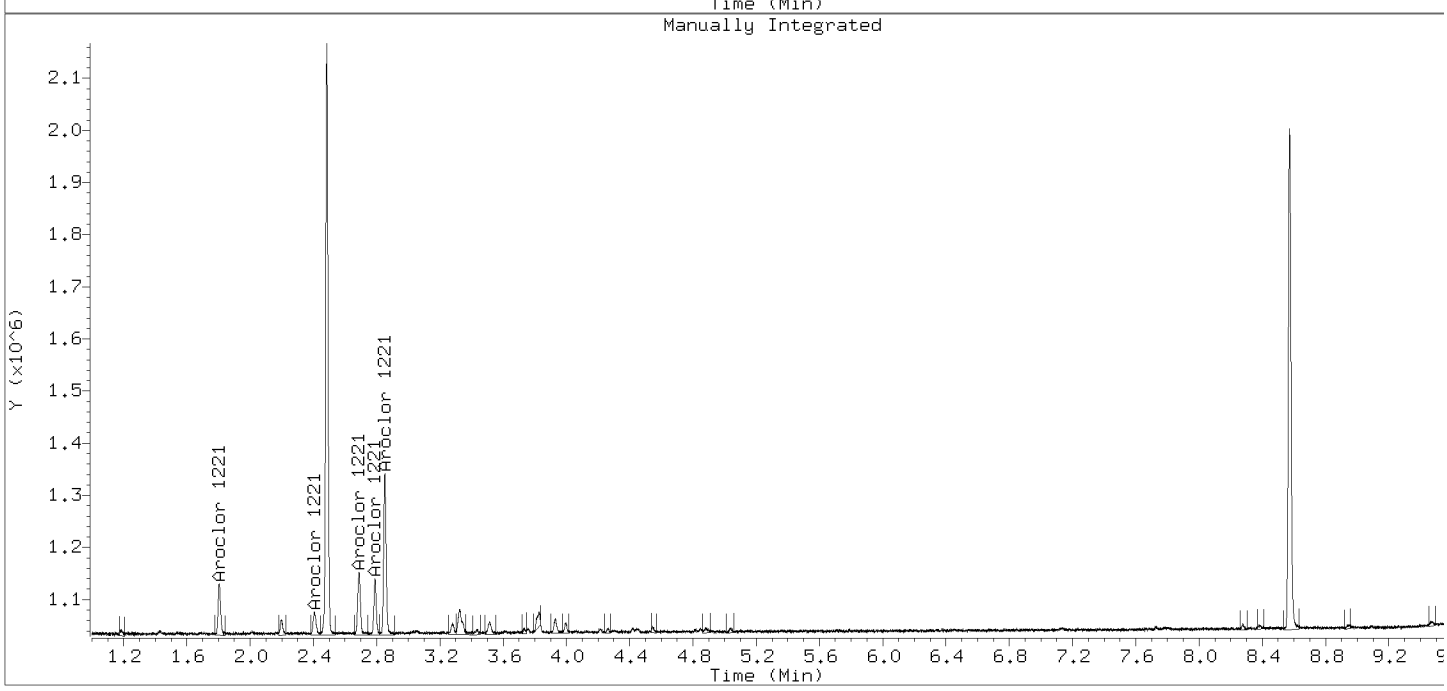
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSJ.i
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

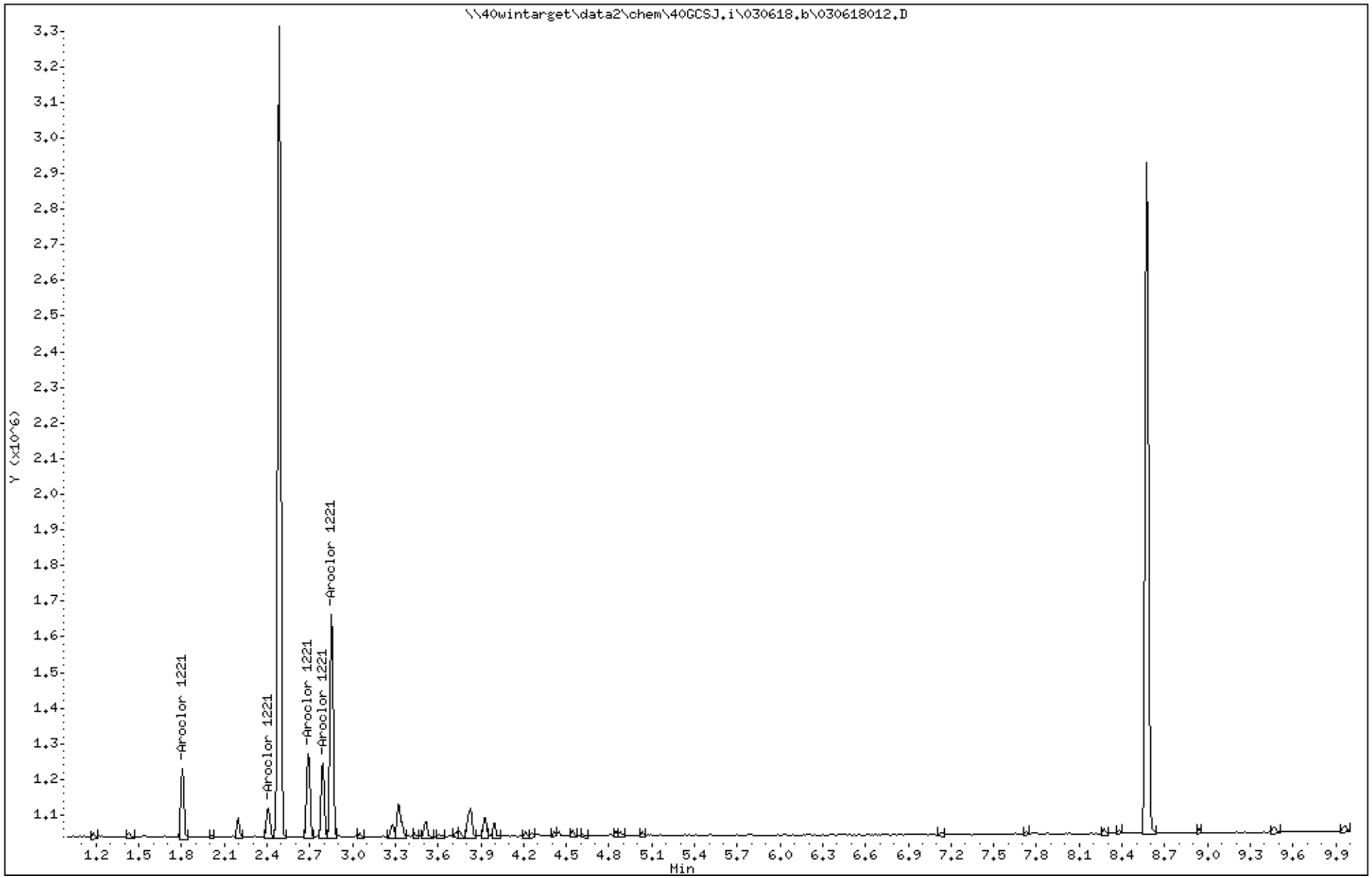
M - Compound response manually integrated.

Review Codes Legend

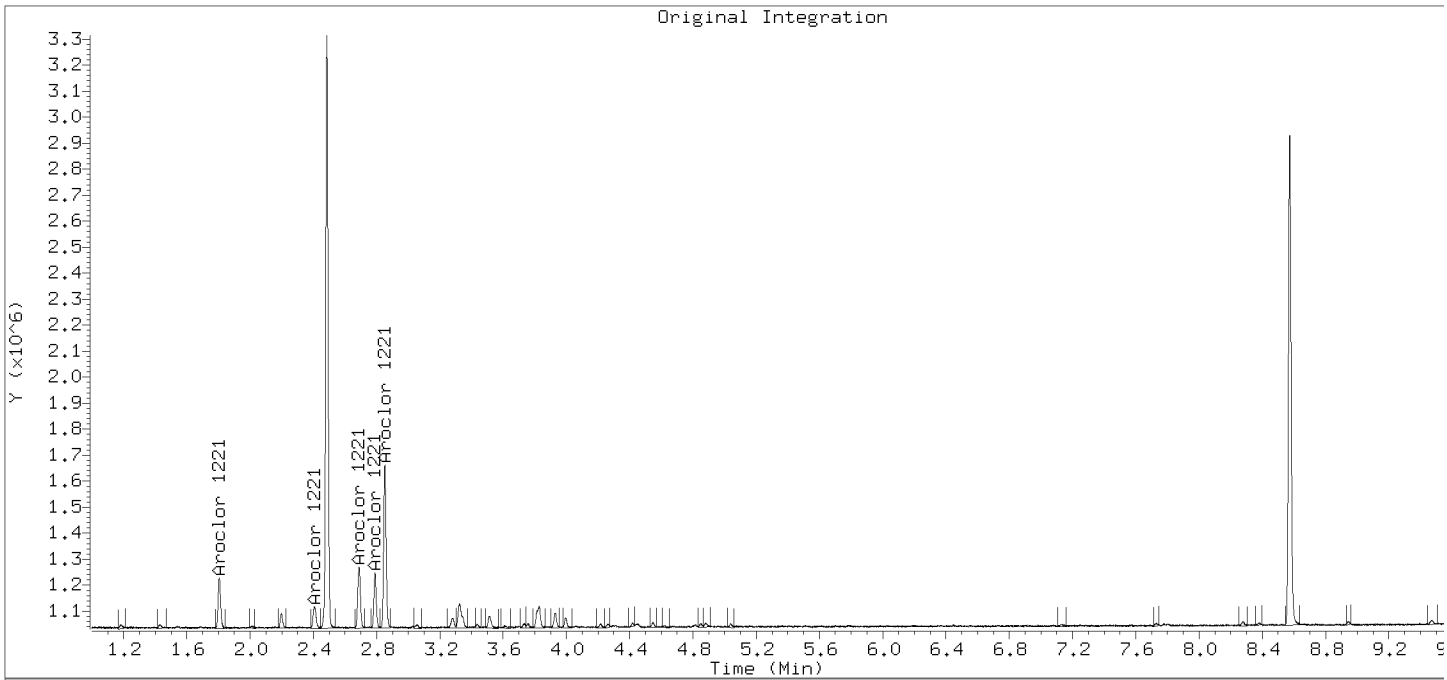
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

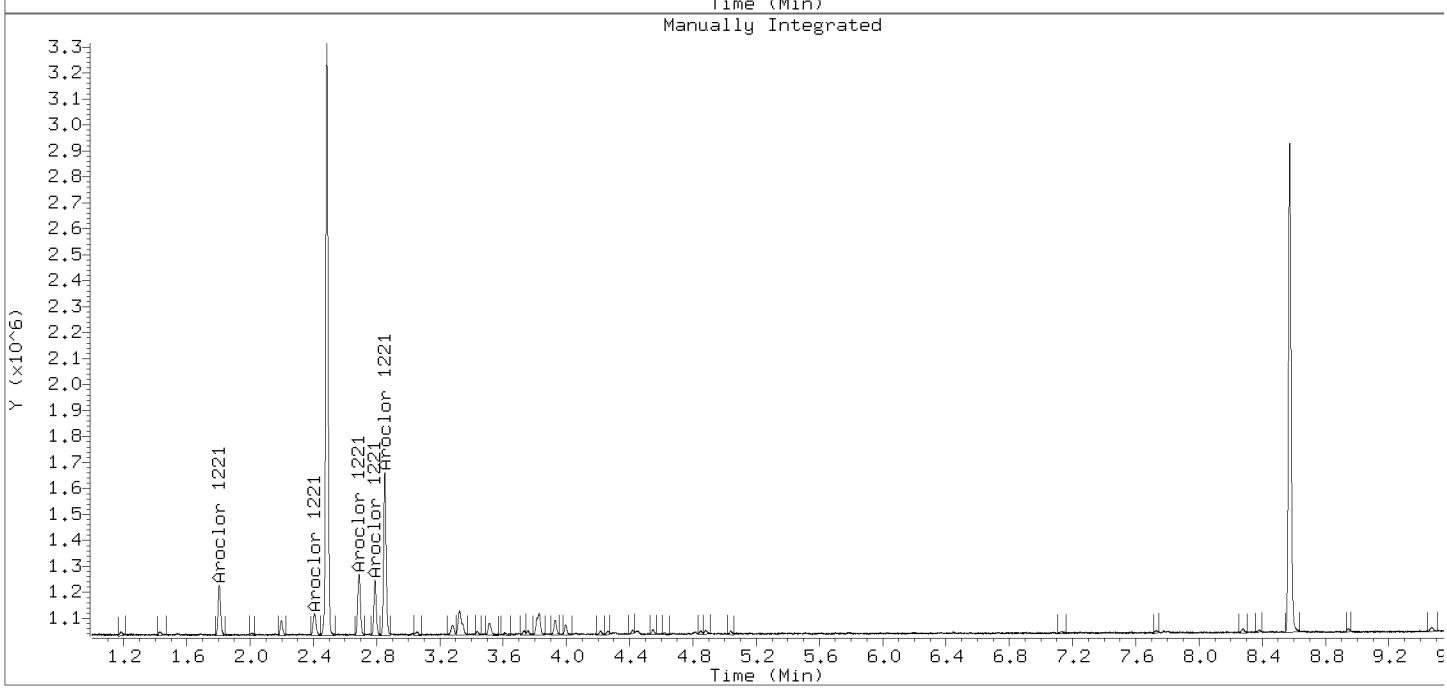
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

Instrument: 40GCSJ.i
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

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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

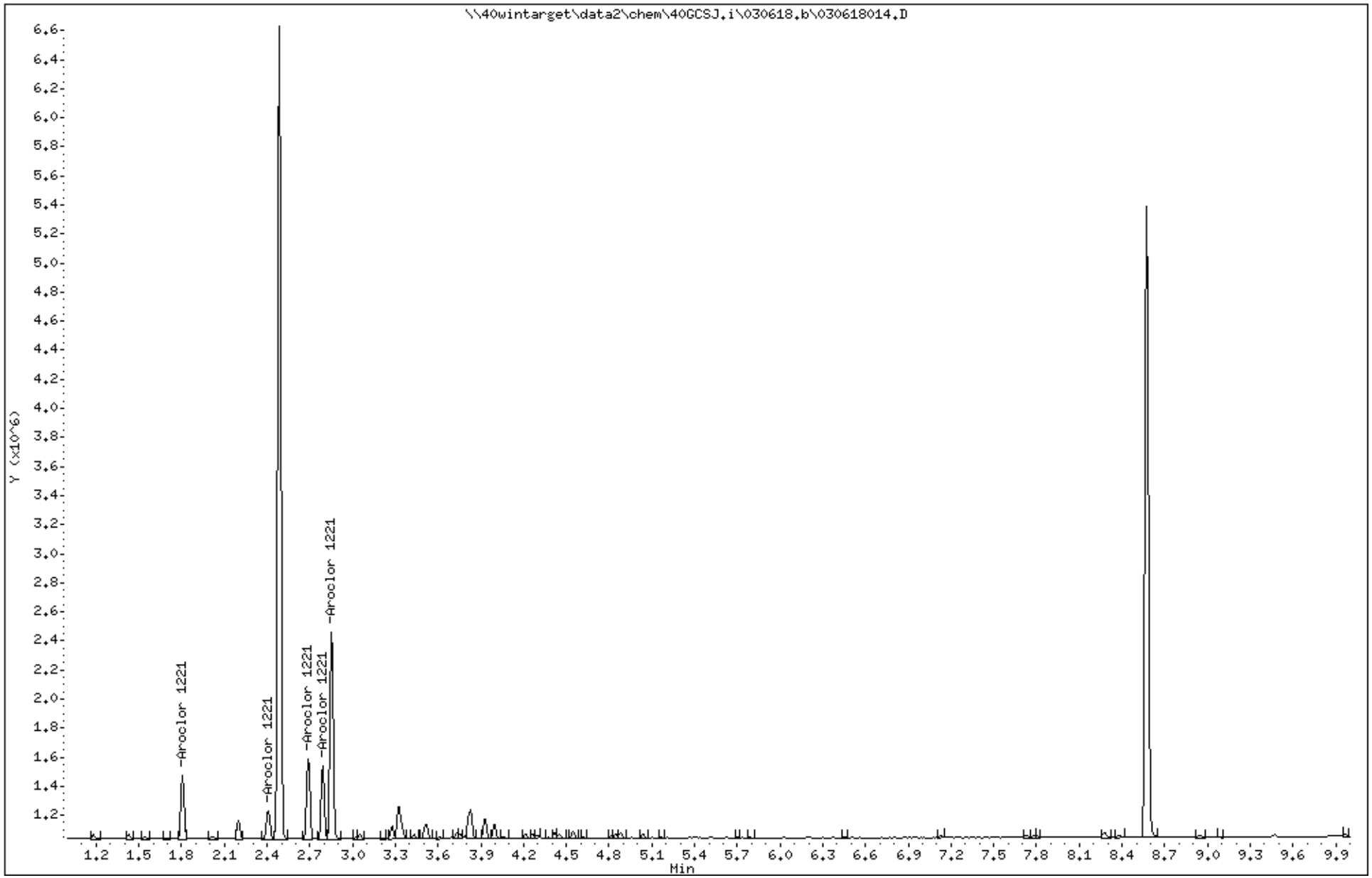
M - Compound response manually integrated.

Review Codes Legend

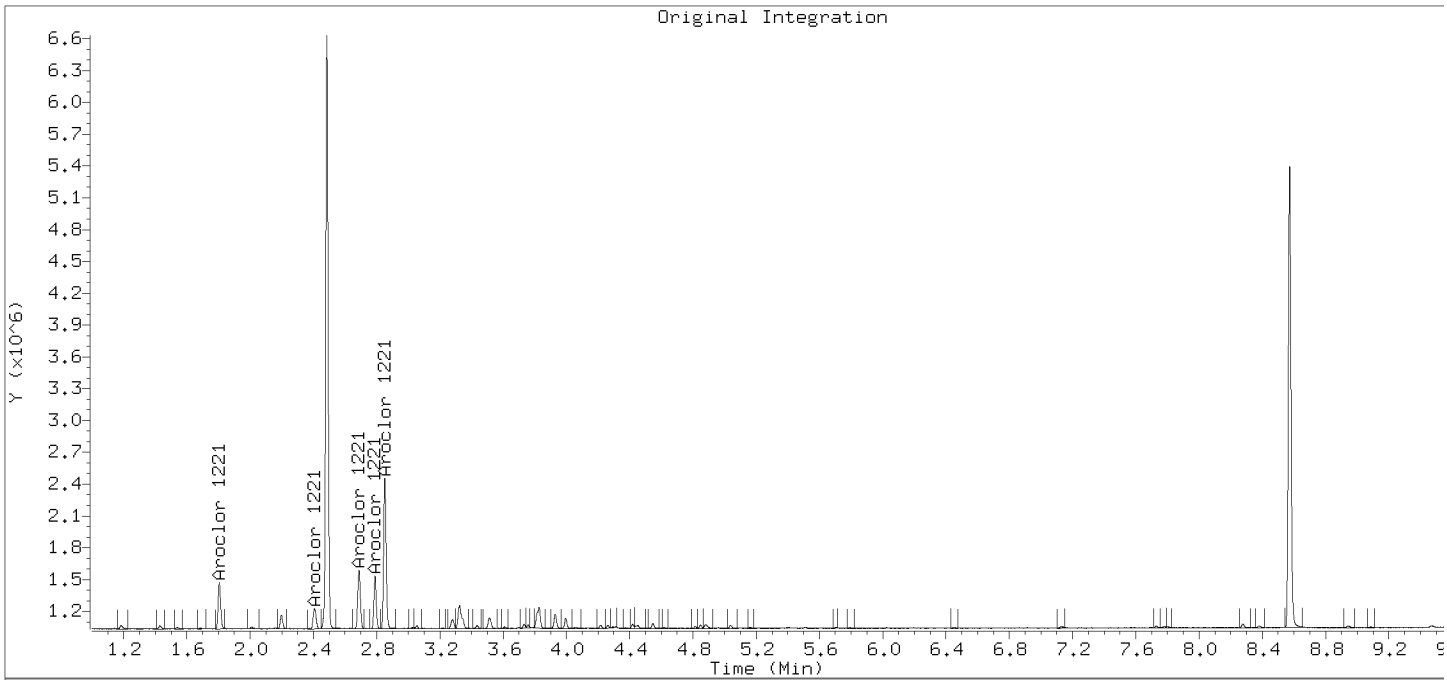
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

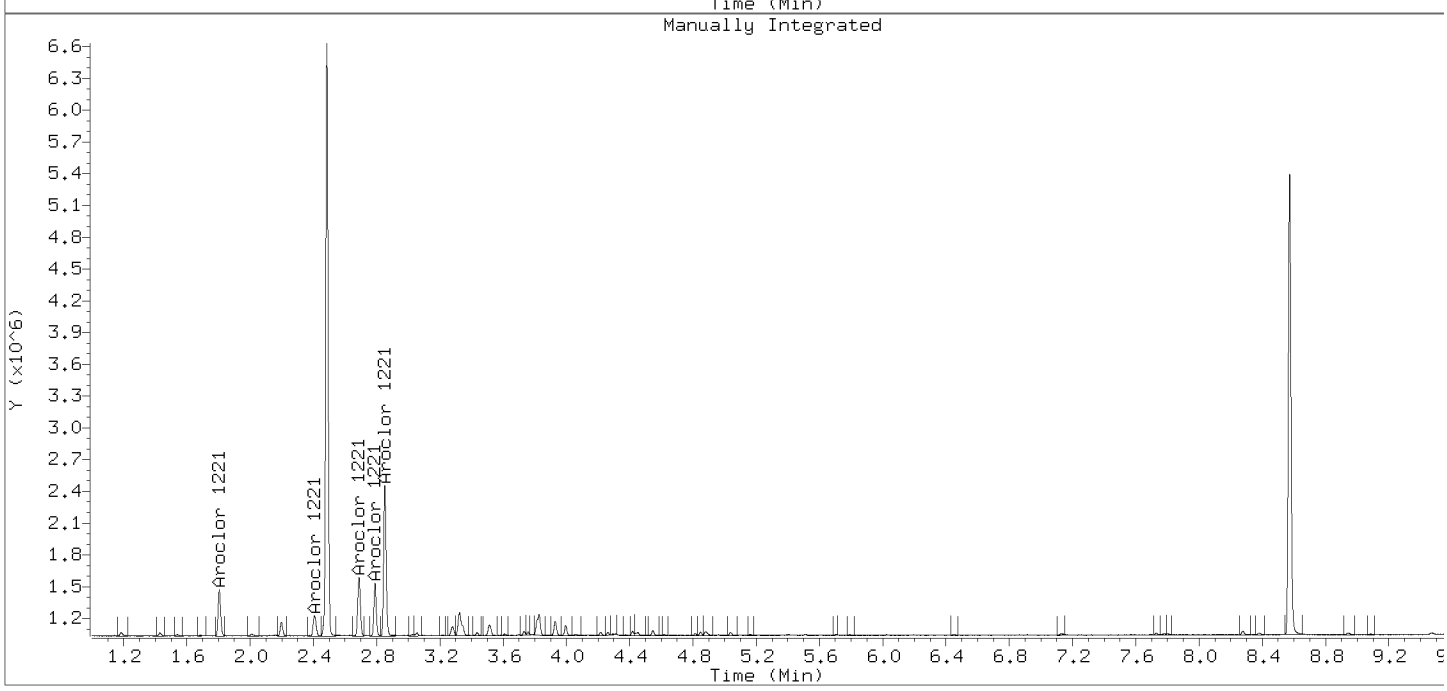
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

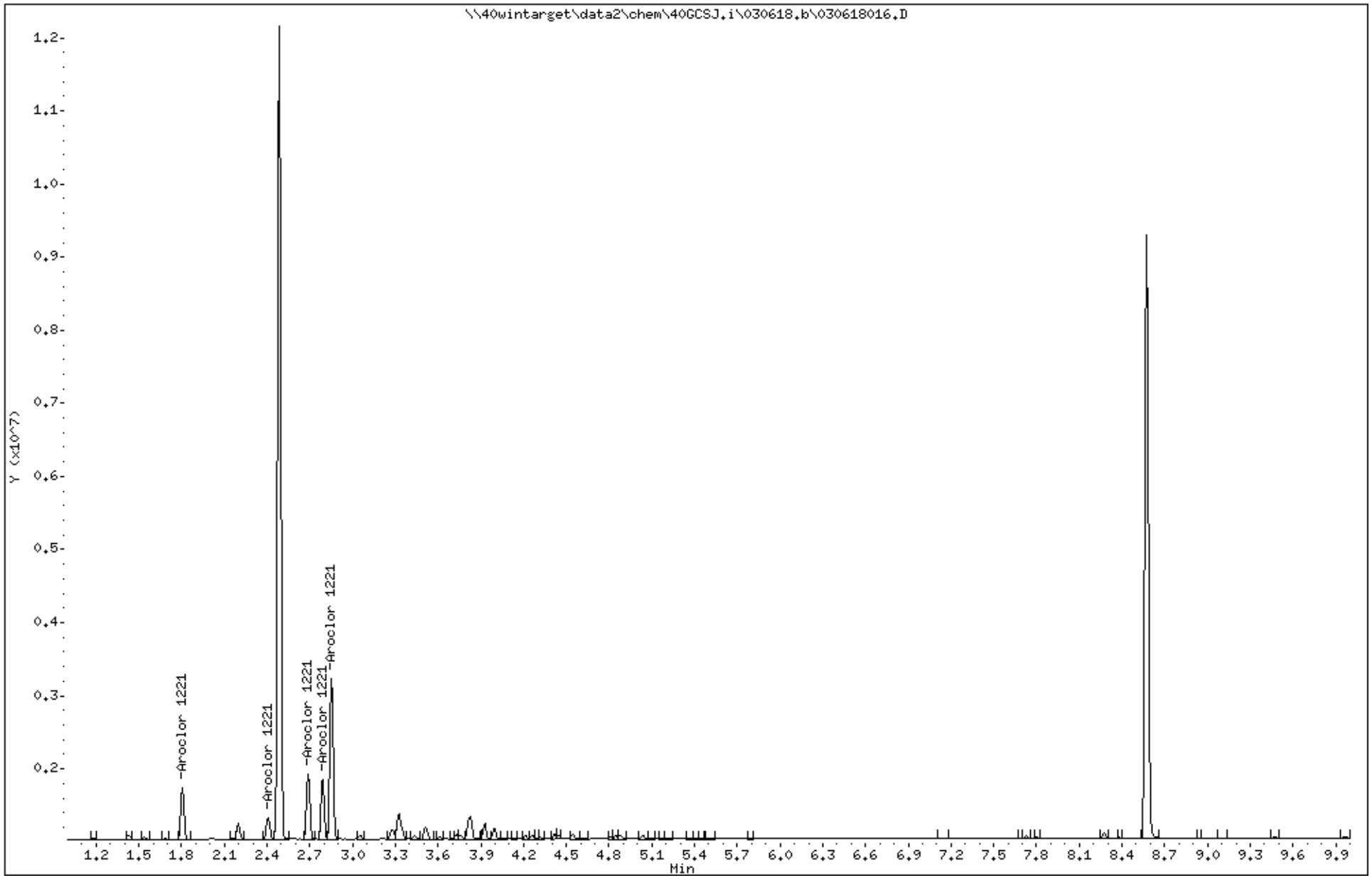
M - Compound response manually integrated.

Review Codes Legend

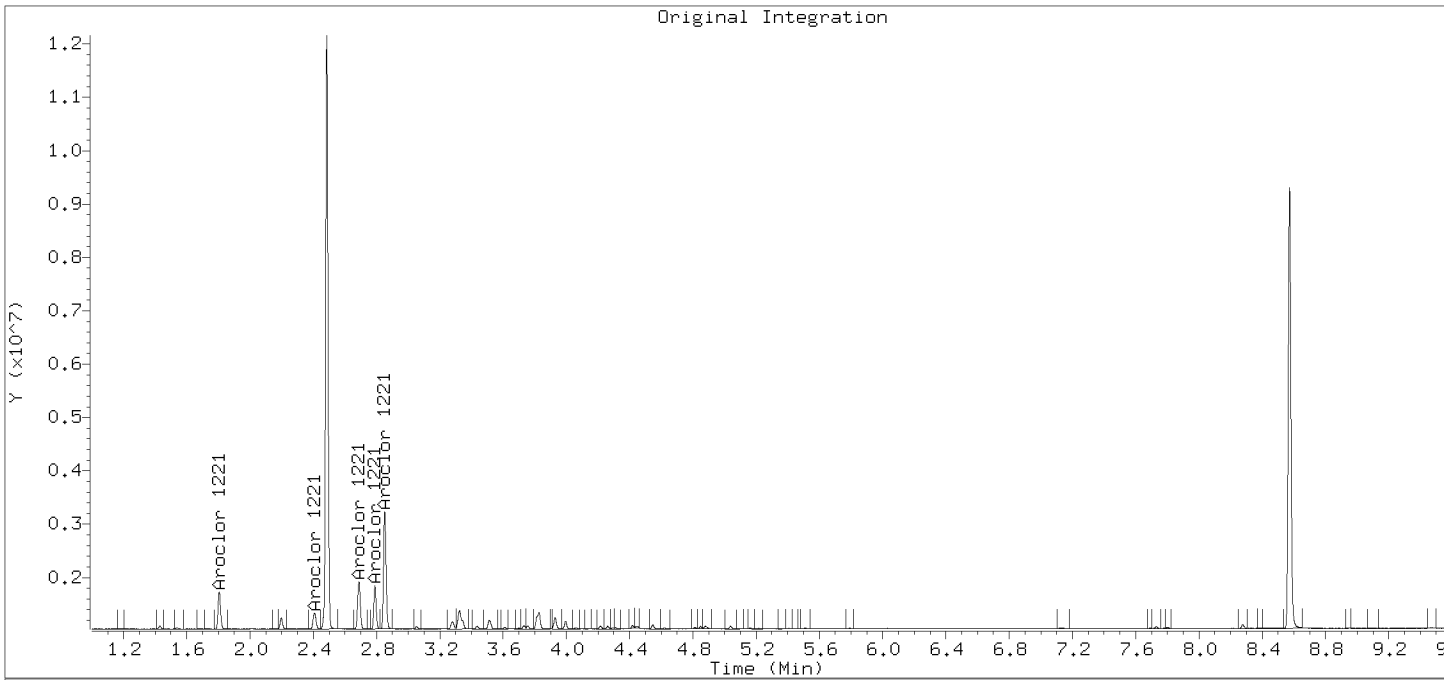
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

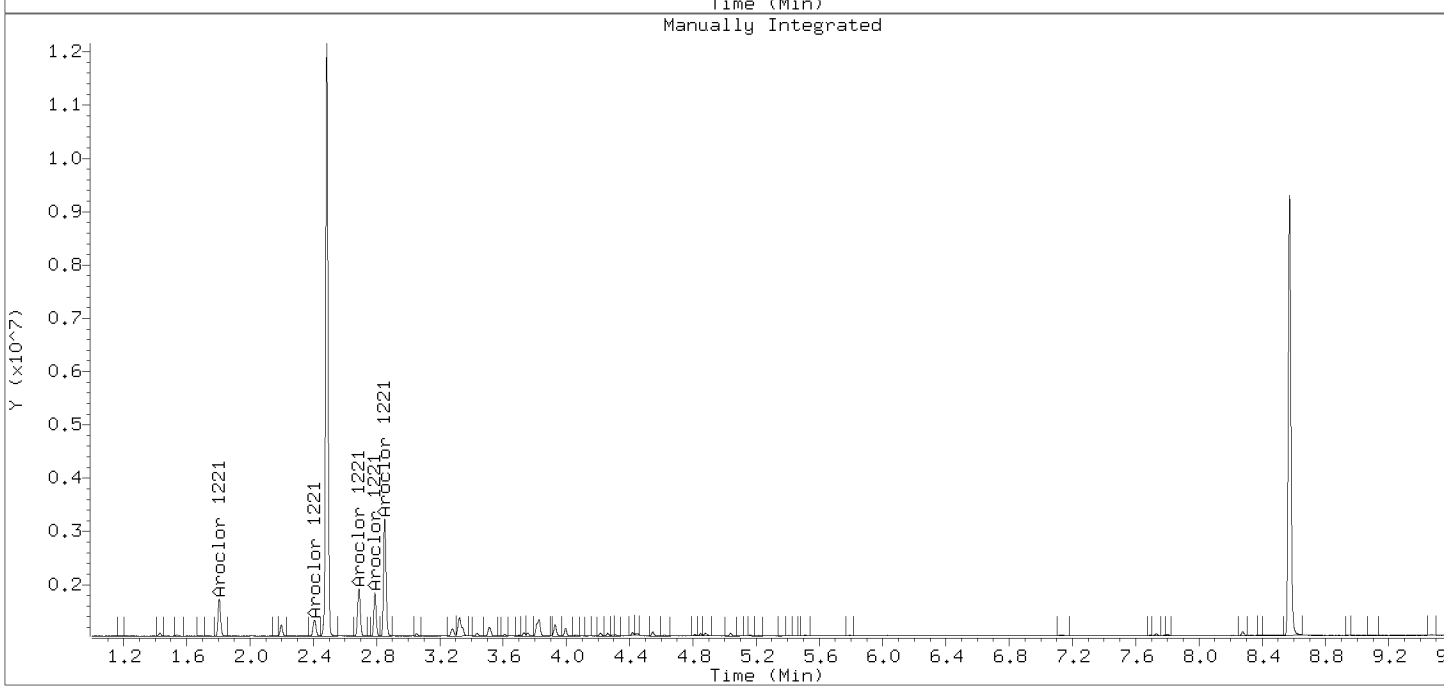
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

Instrument: 40GCSJ.i
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

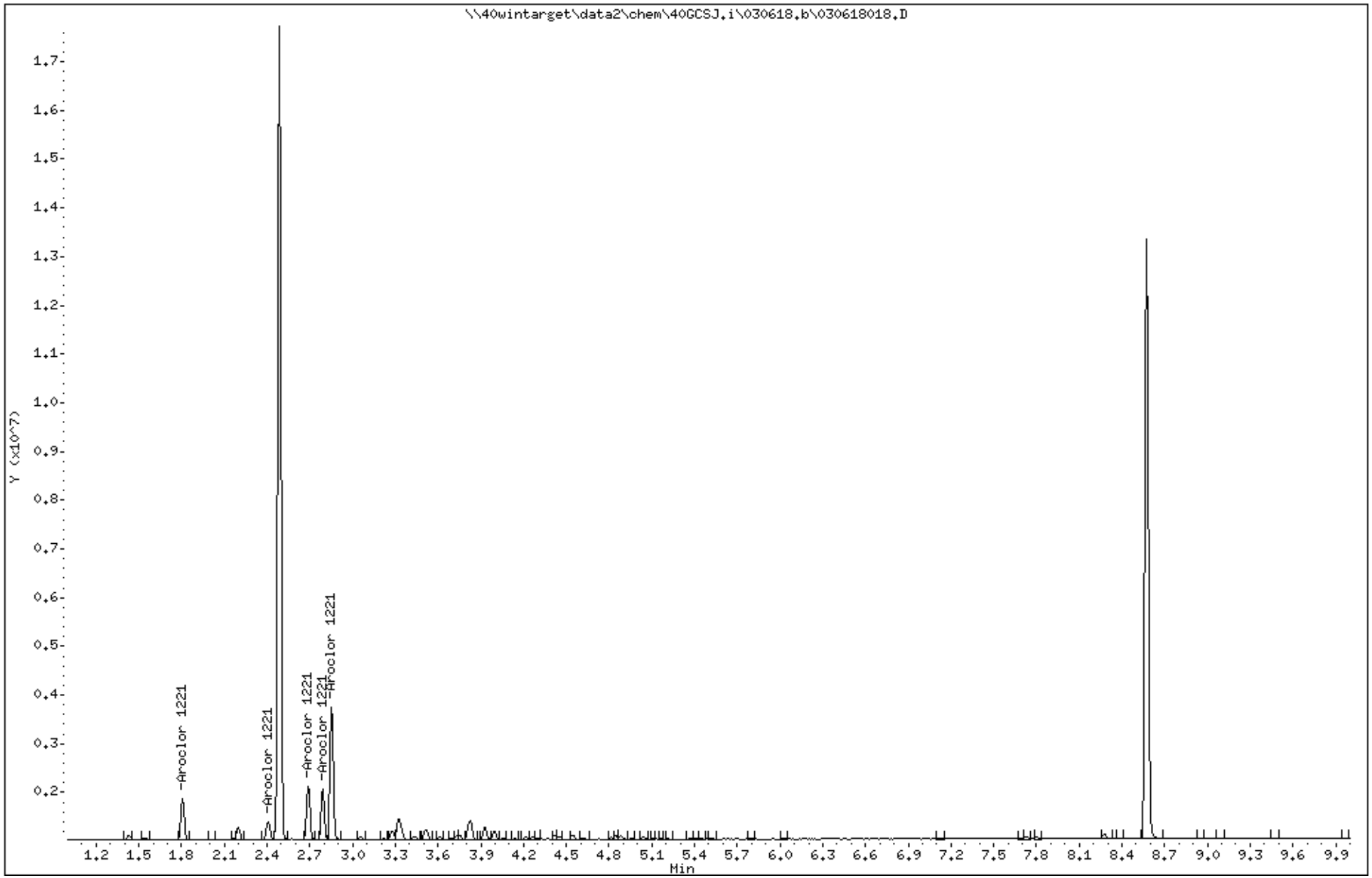
M - Compound response manually integrated.

Review Codes Legend

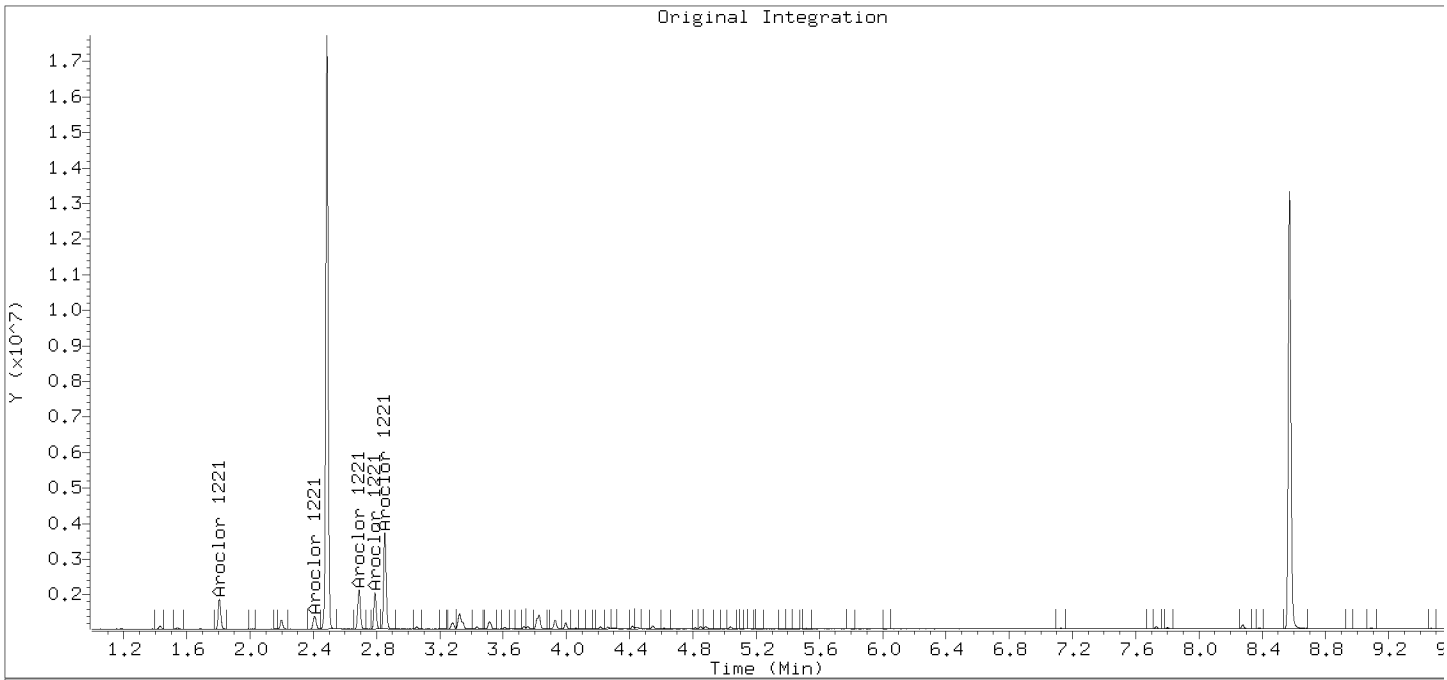
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

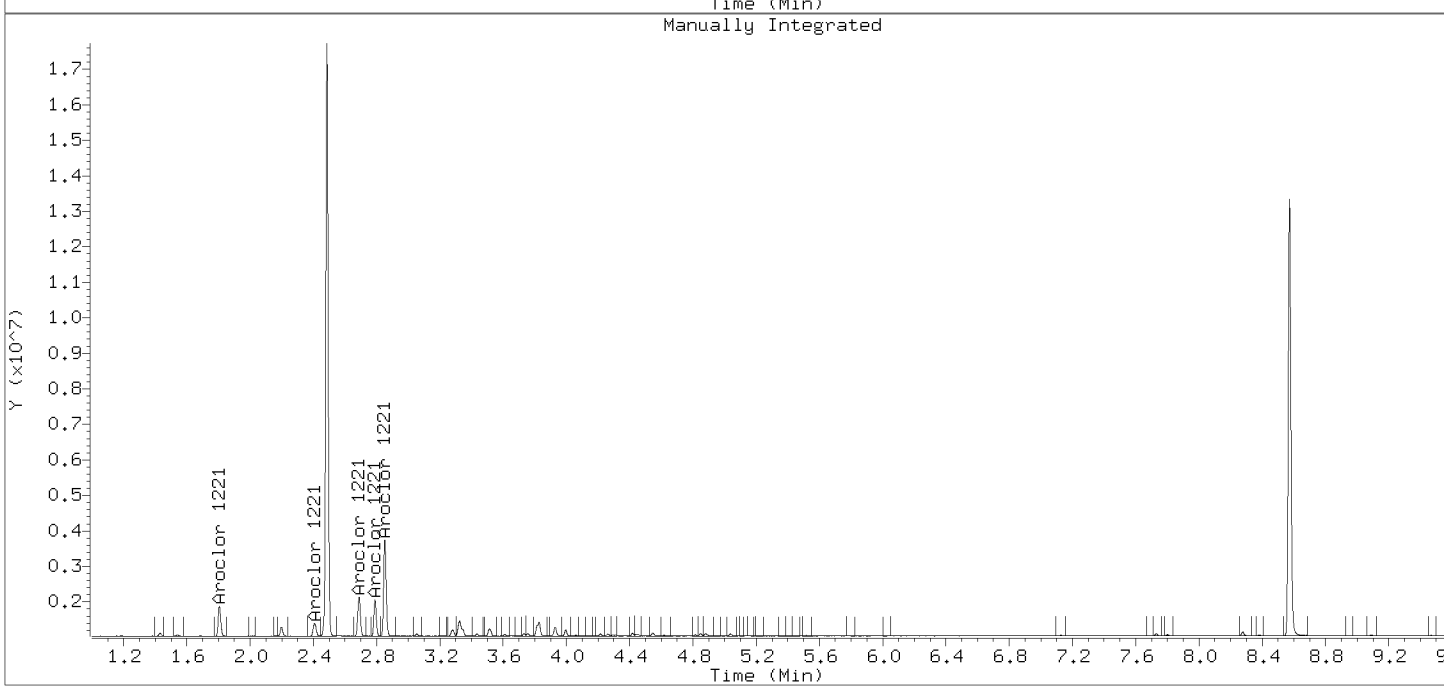
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

Instrument: 40GCSJ.i
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

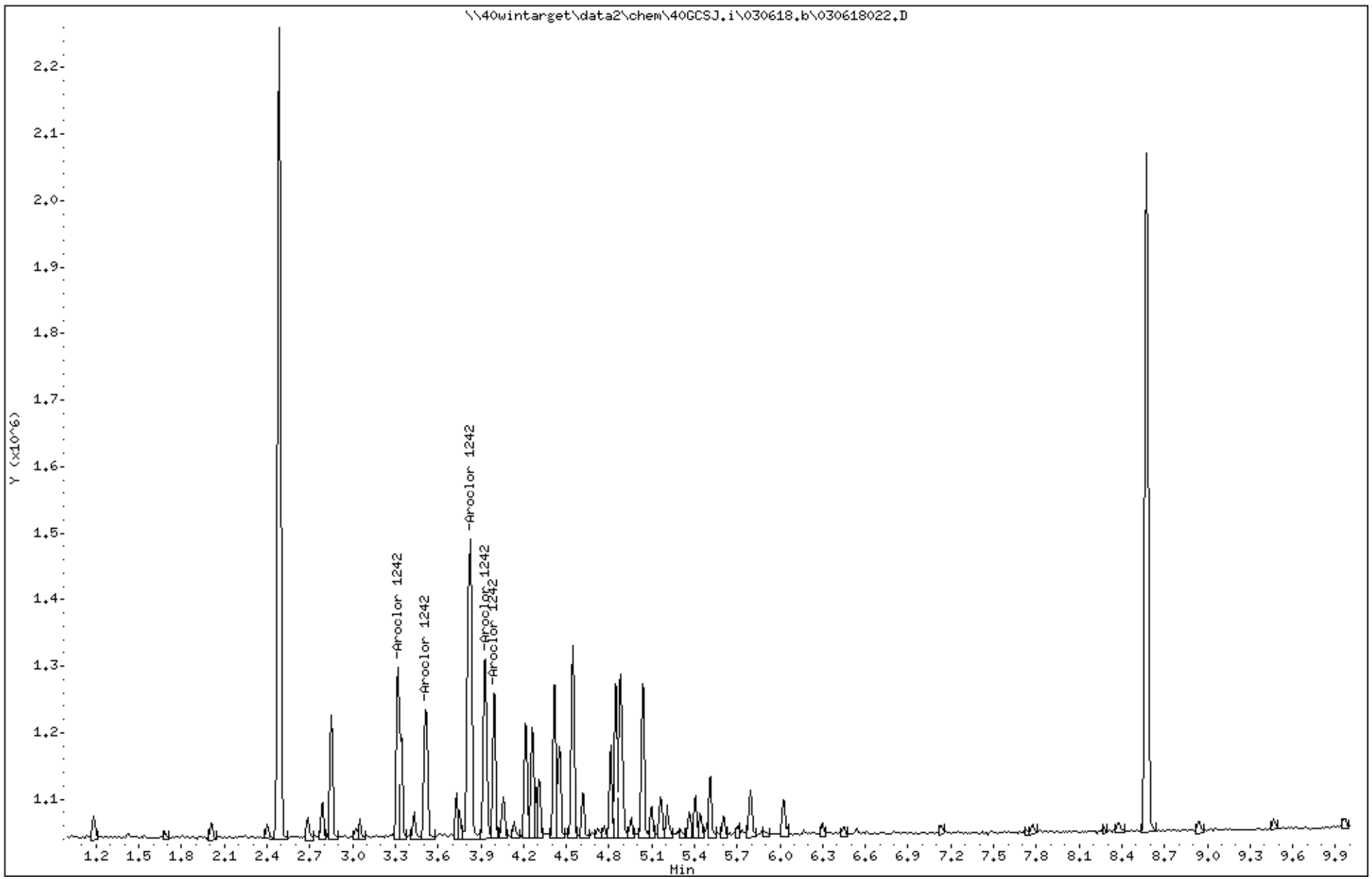
M - Compound response manually integrated.

Review Codes Legend

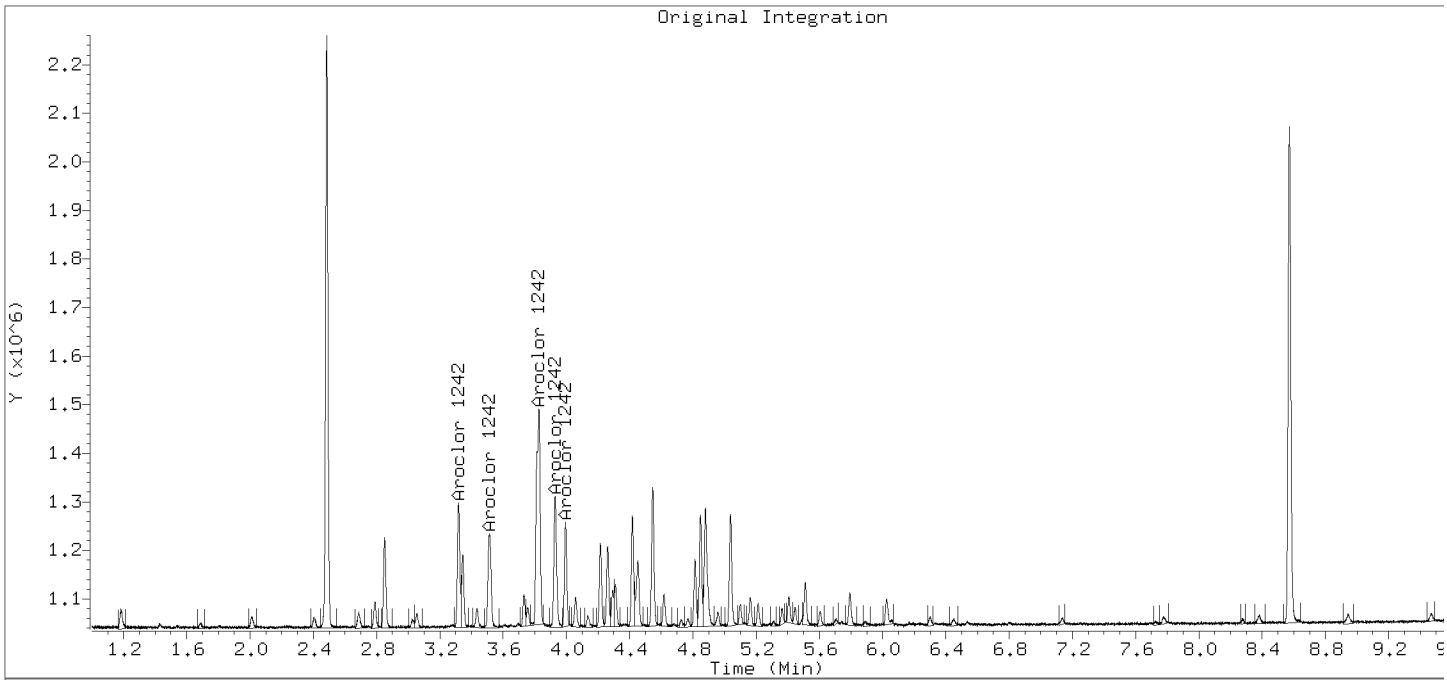
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

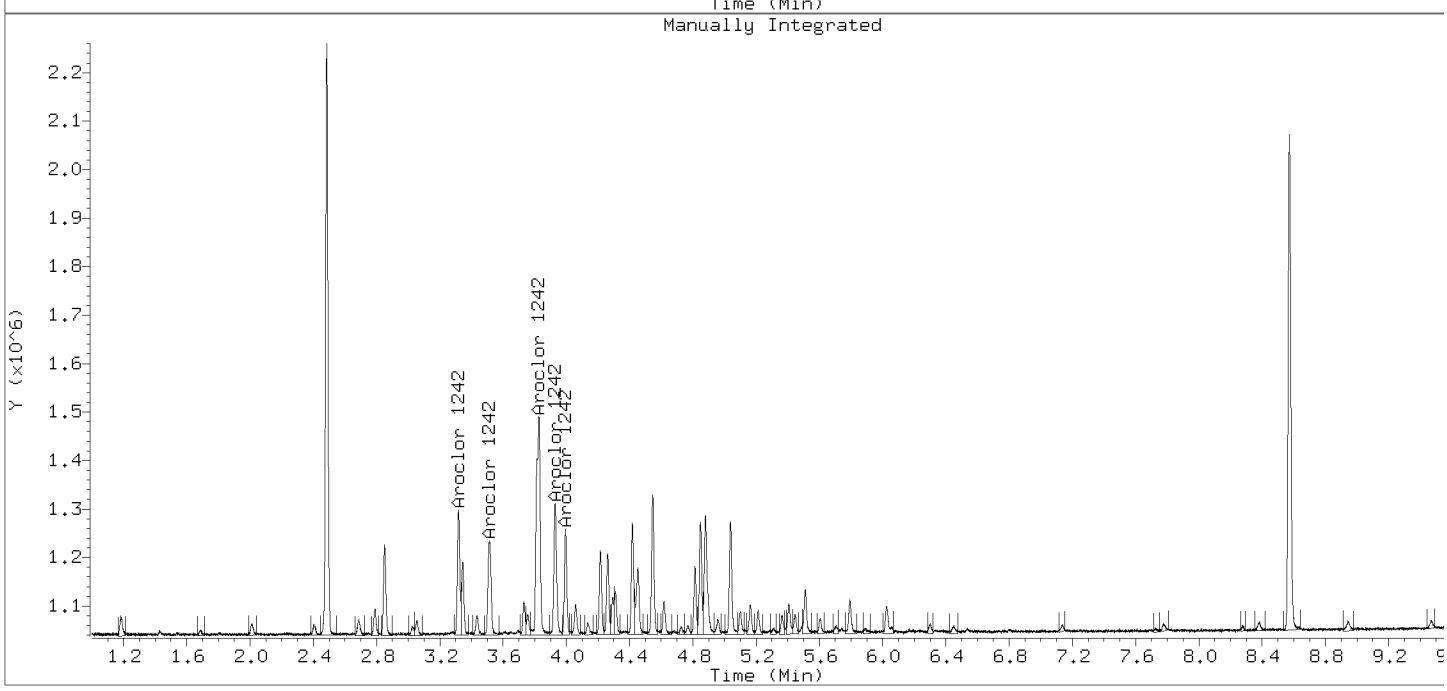
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

Instrument: 40GCSJ.i
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

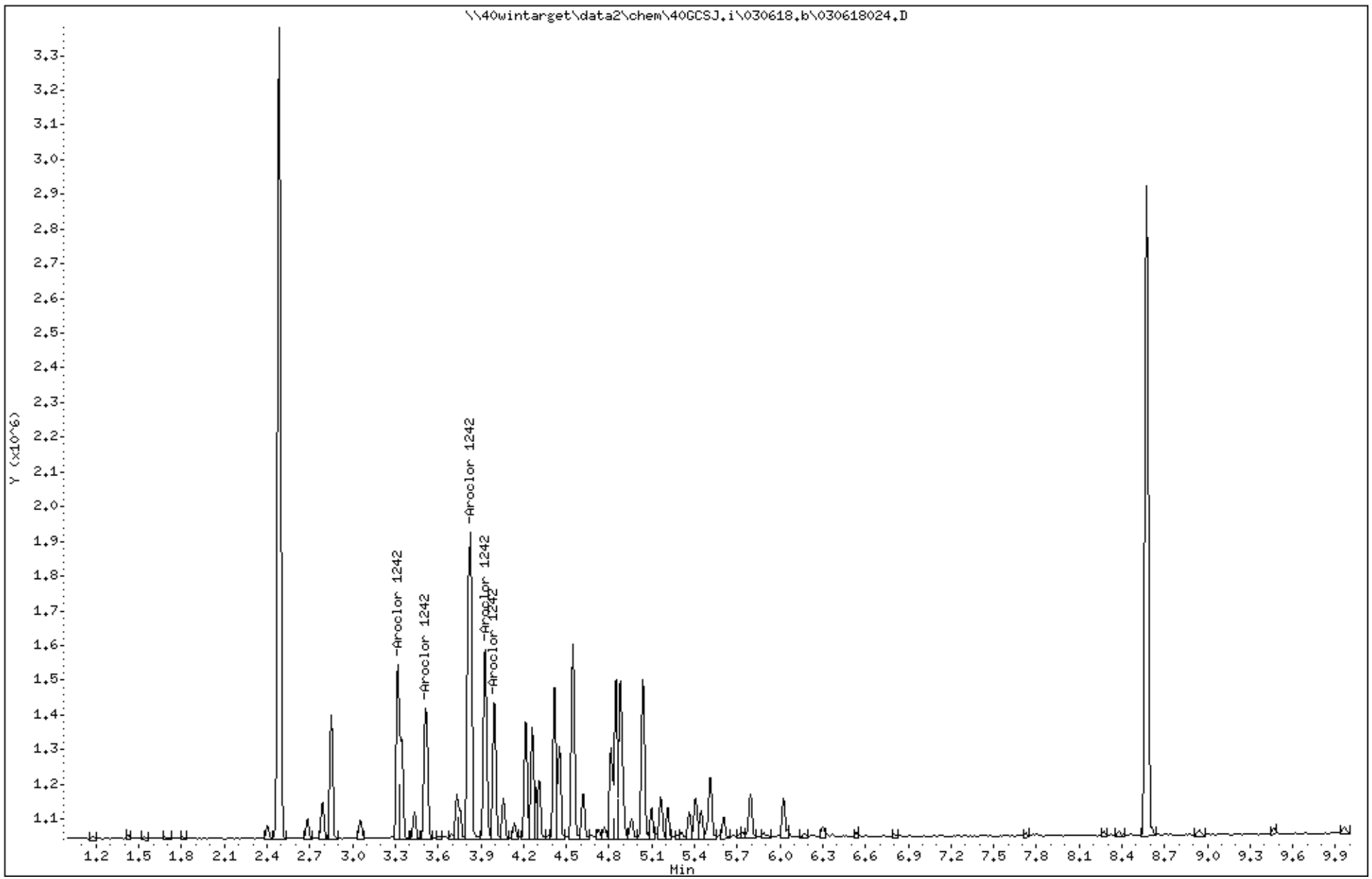
M - Compound response manually integrated.

Review Codes Legend

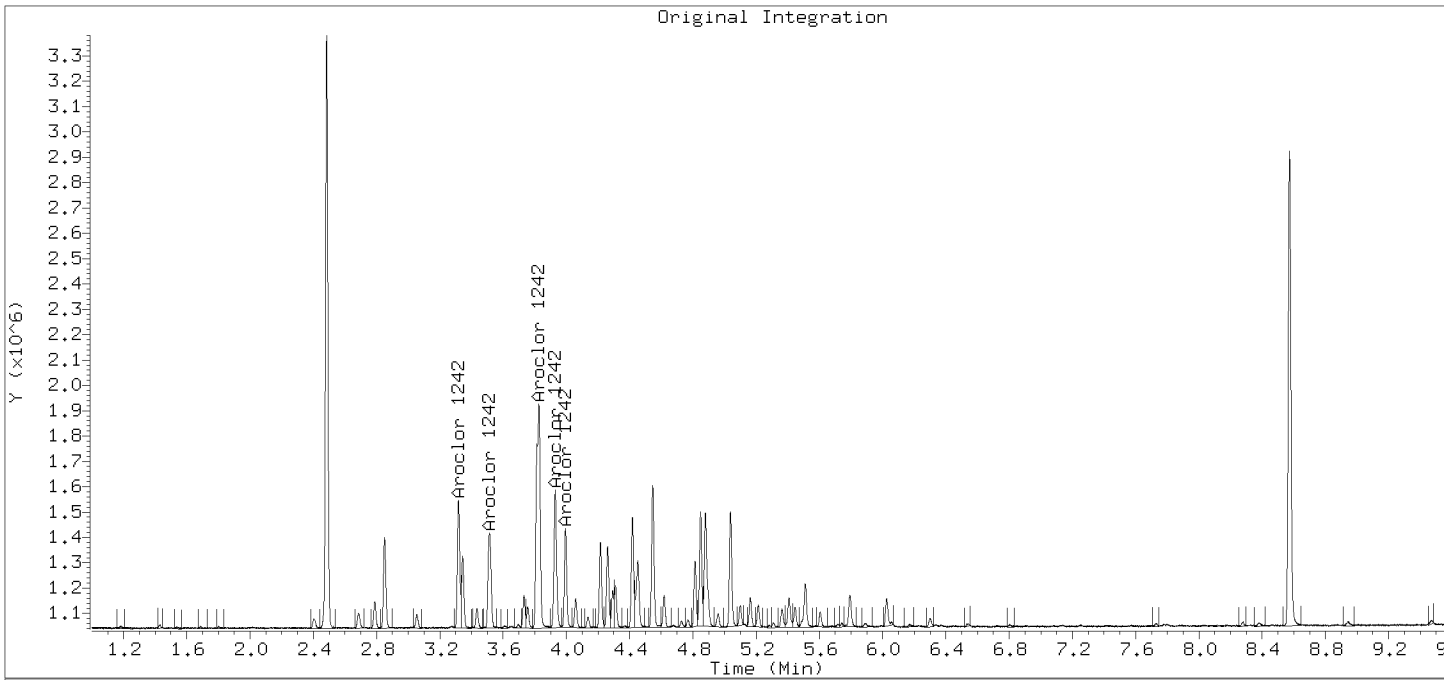
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

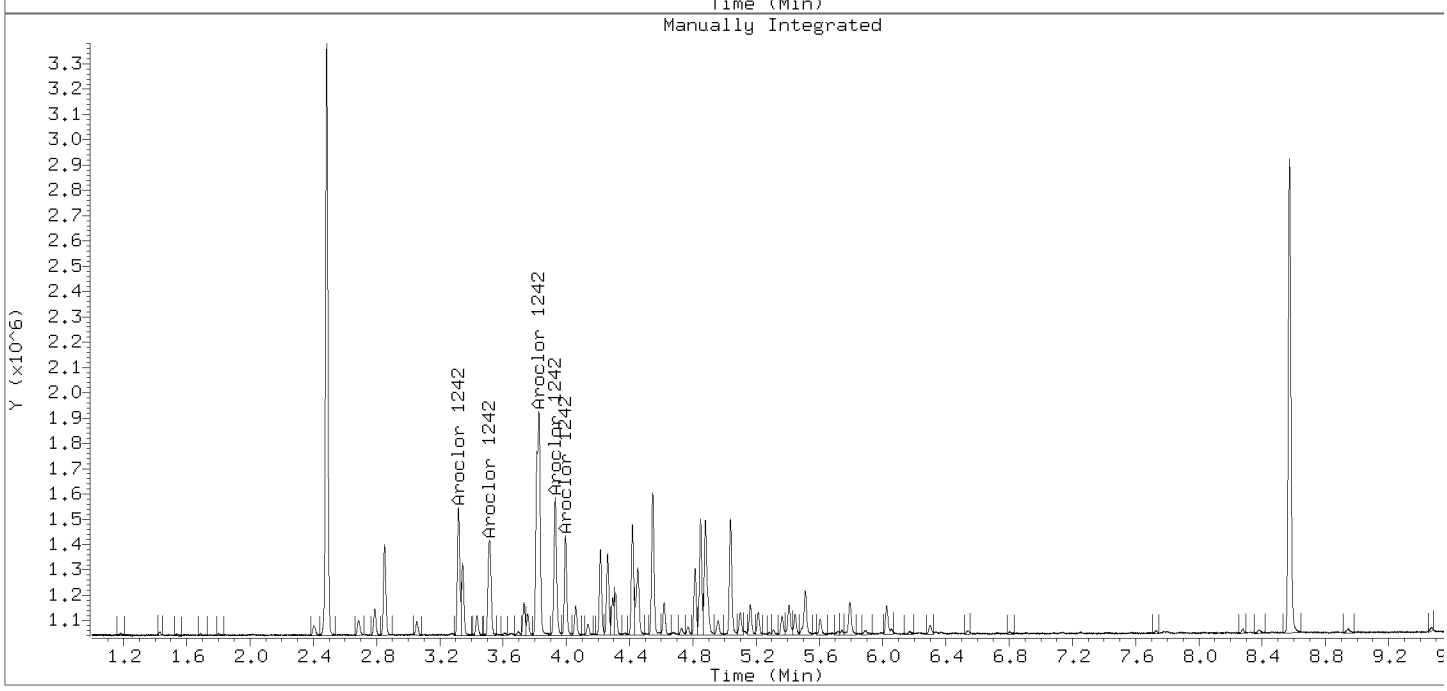
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

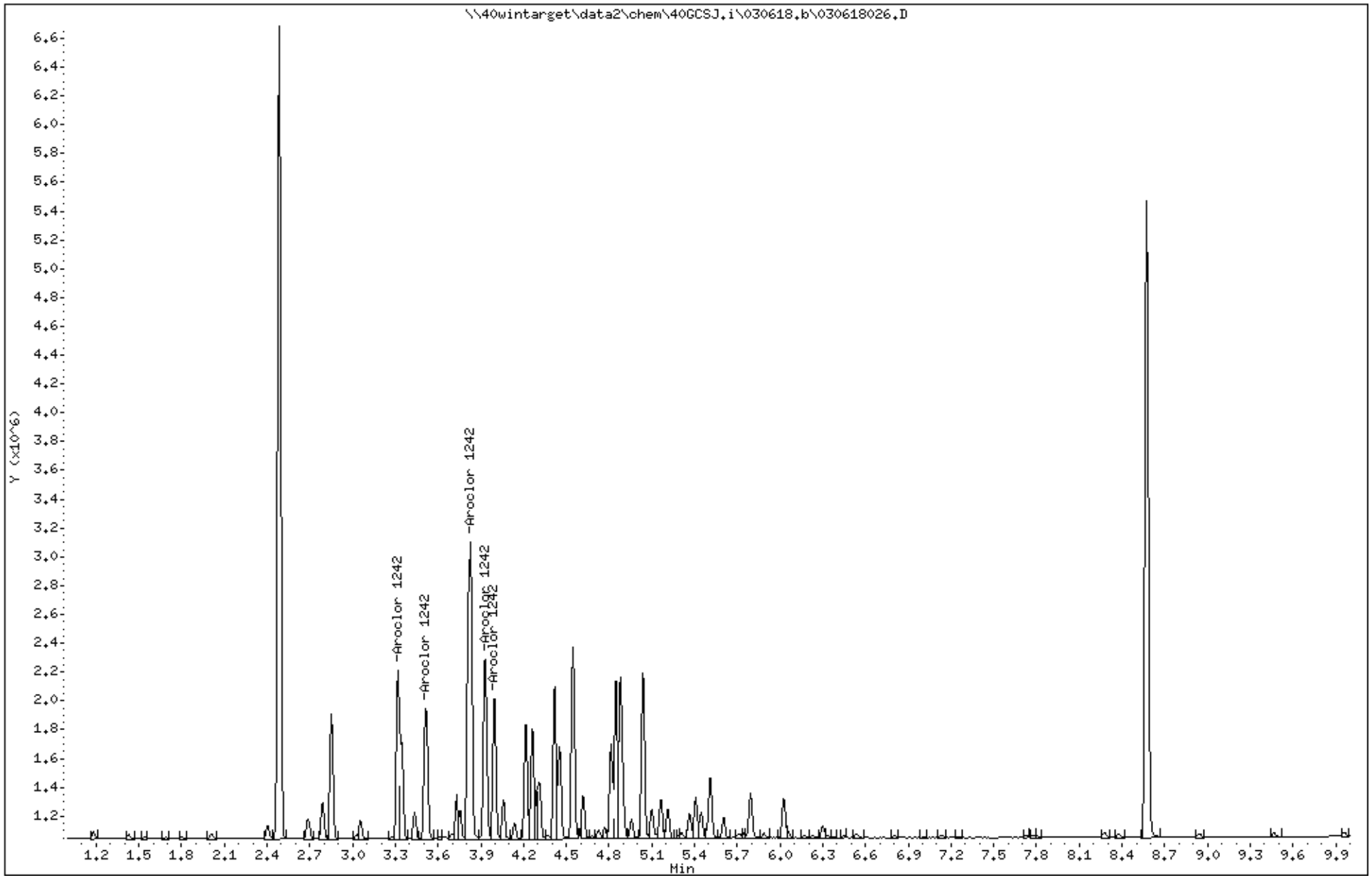
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

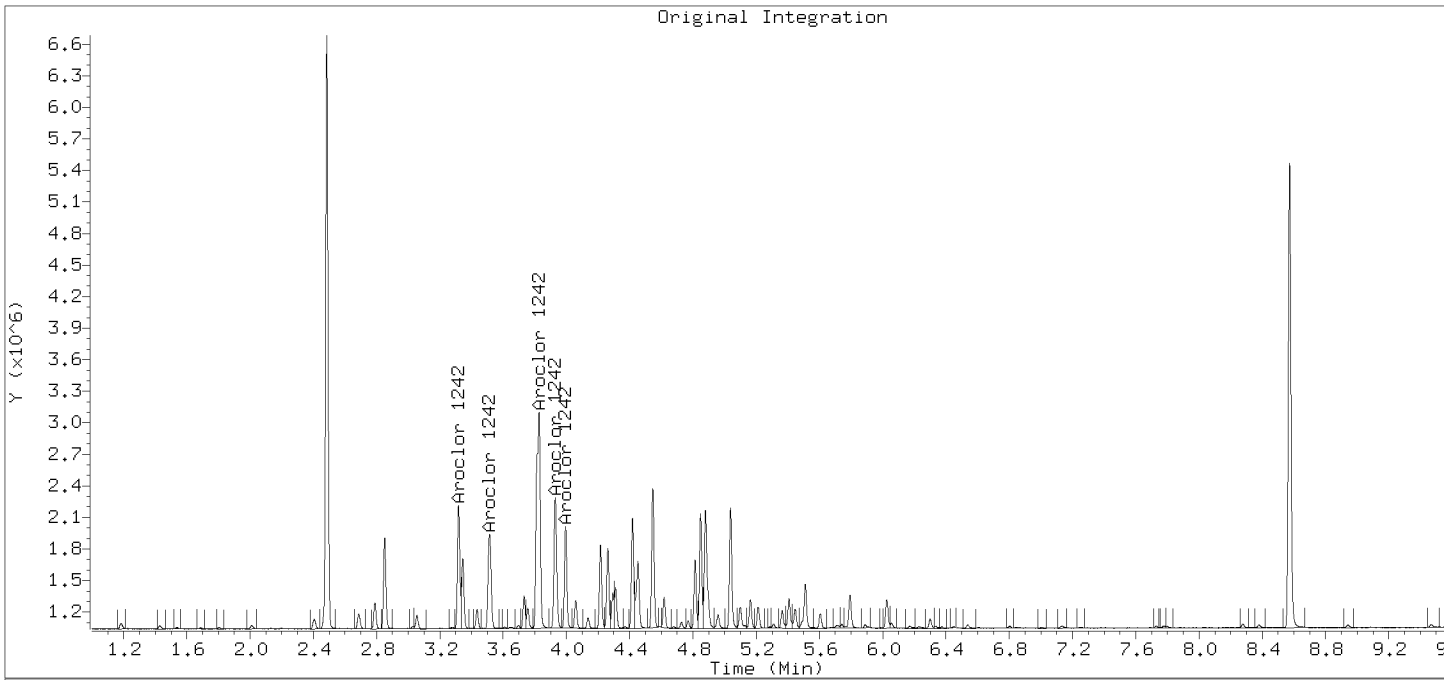
Operator: BLM

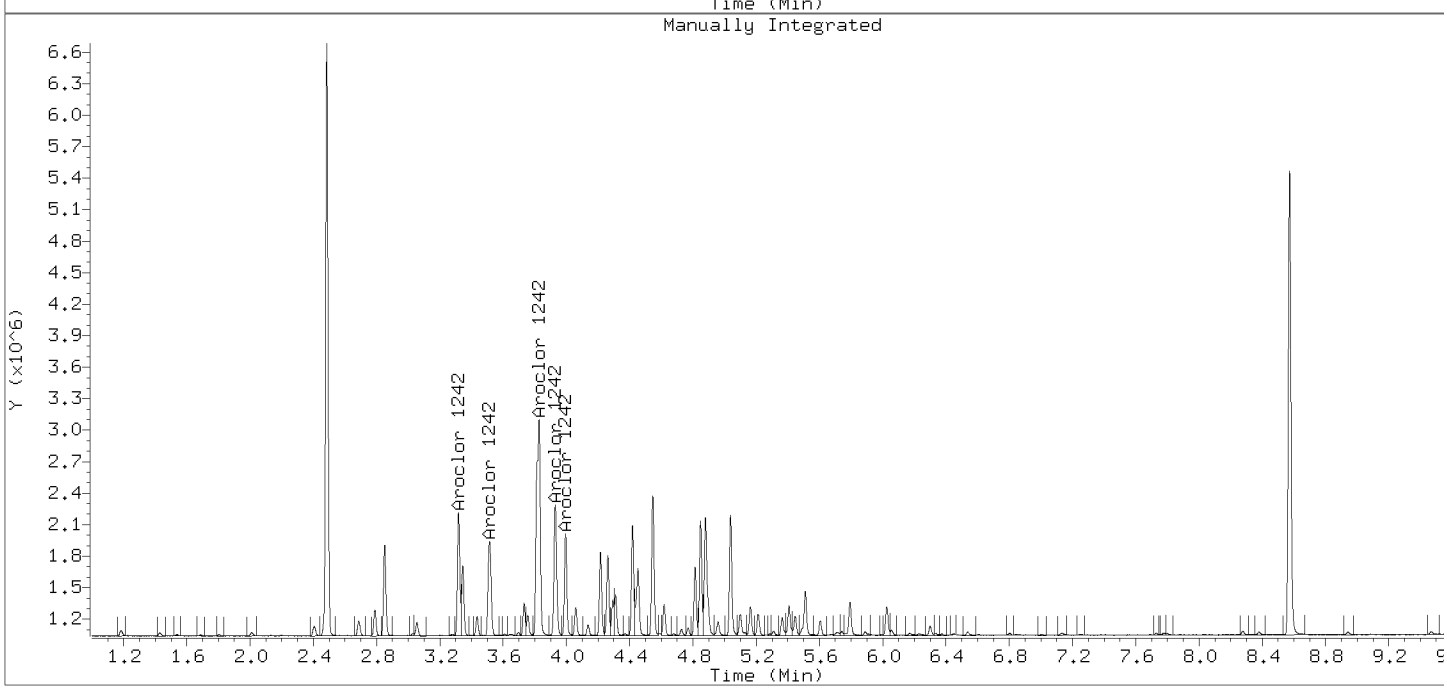
Column phase: ZB-1ms

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

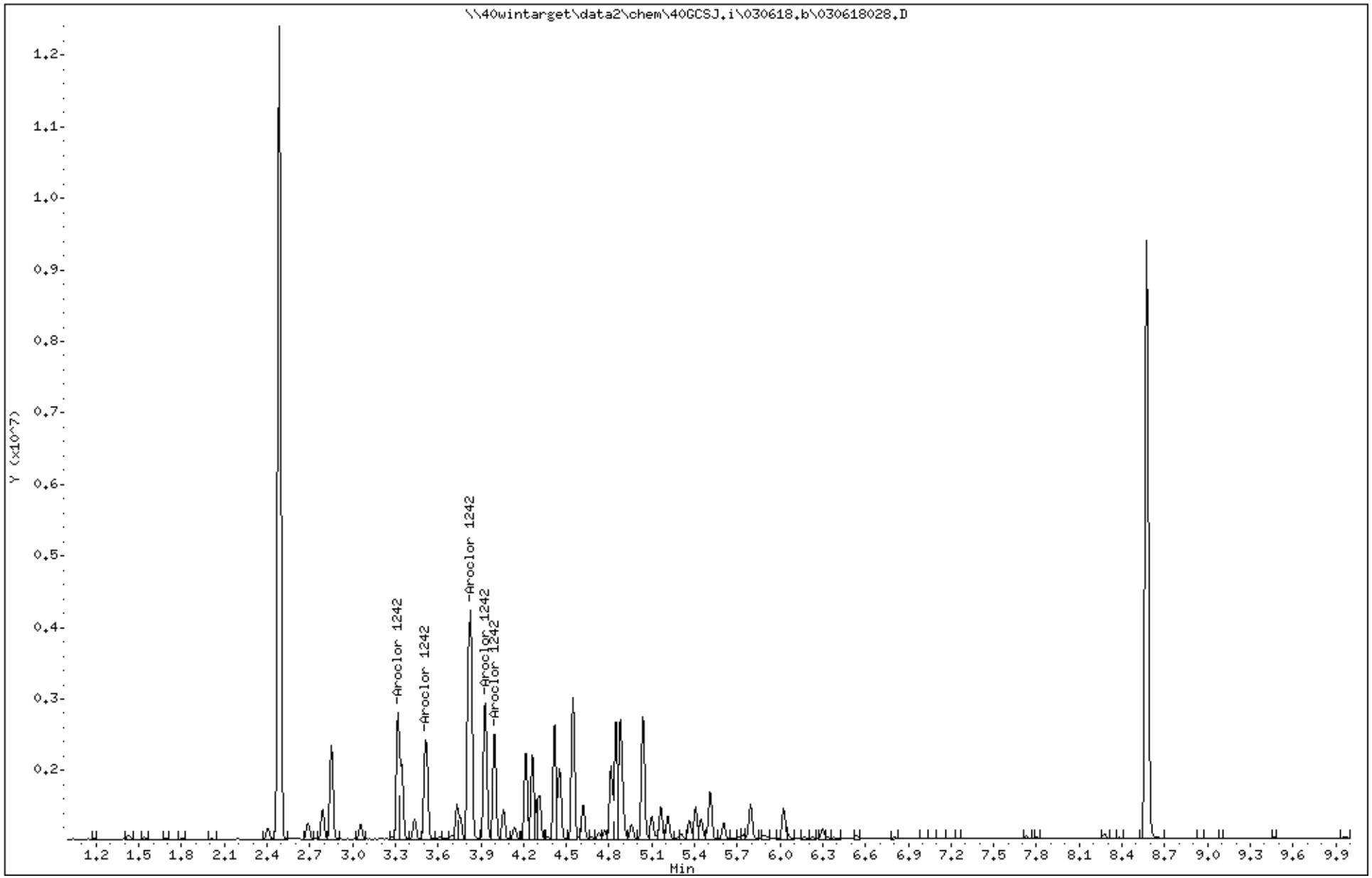
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

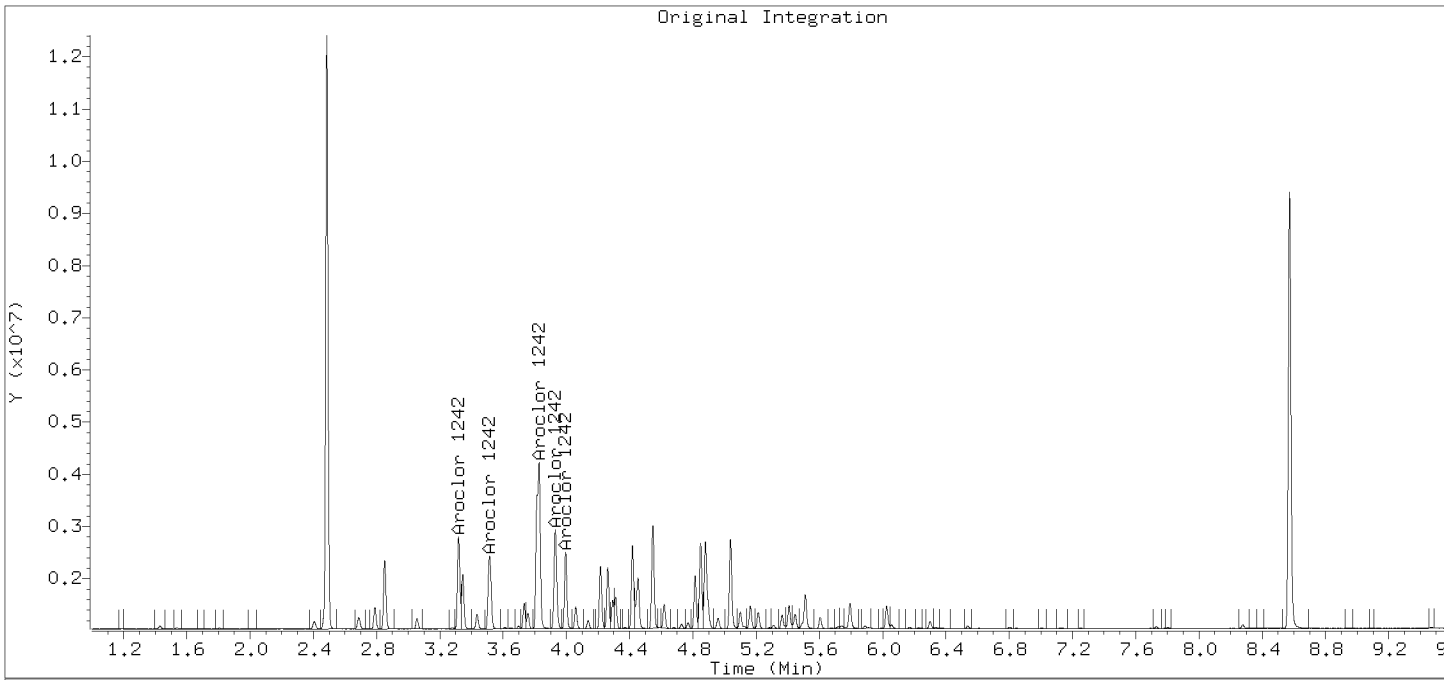
Operator: BLM

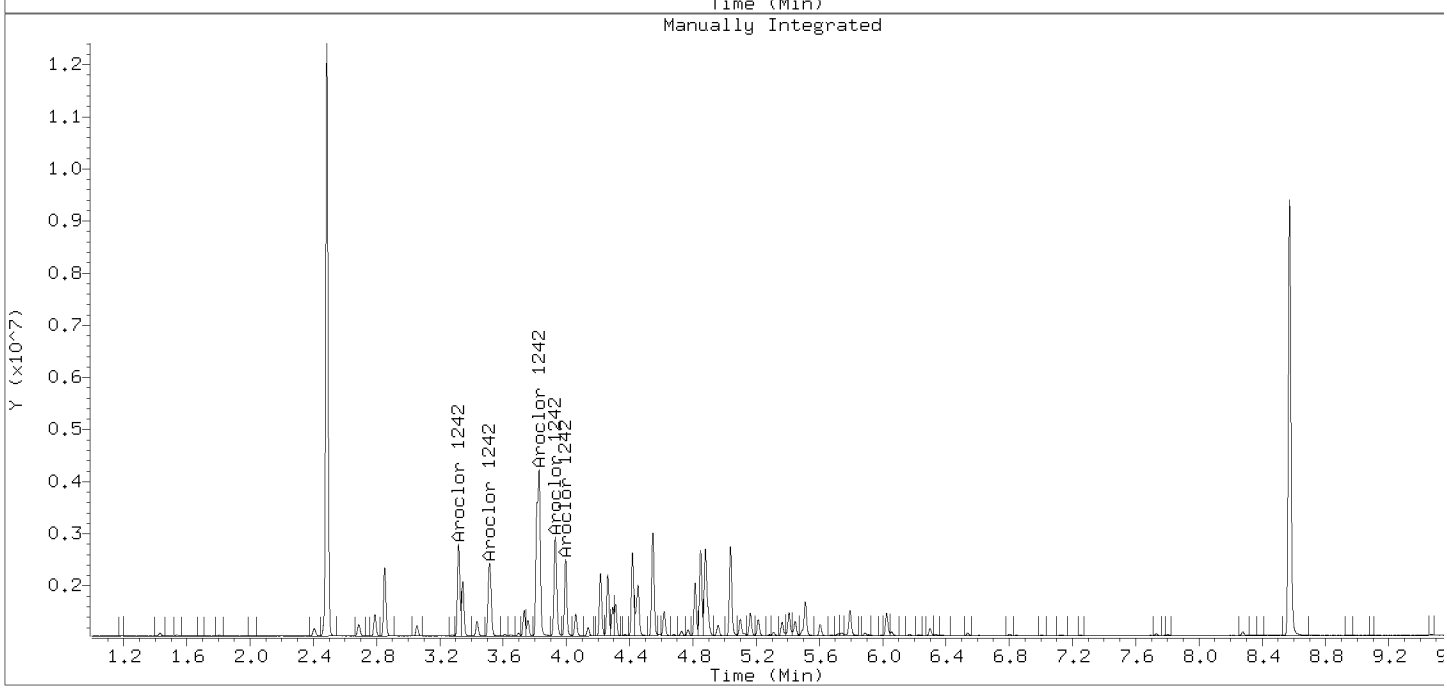
Column phase: ZB-1ms

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

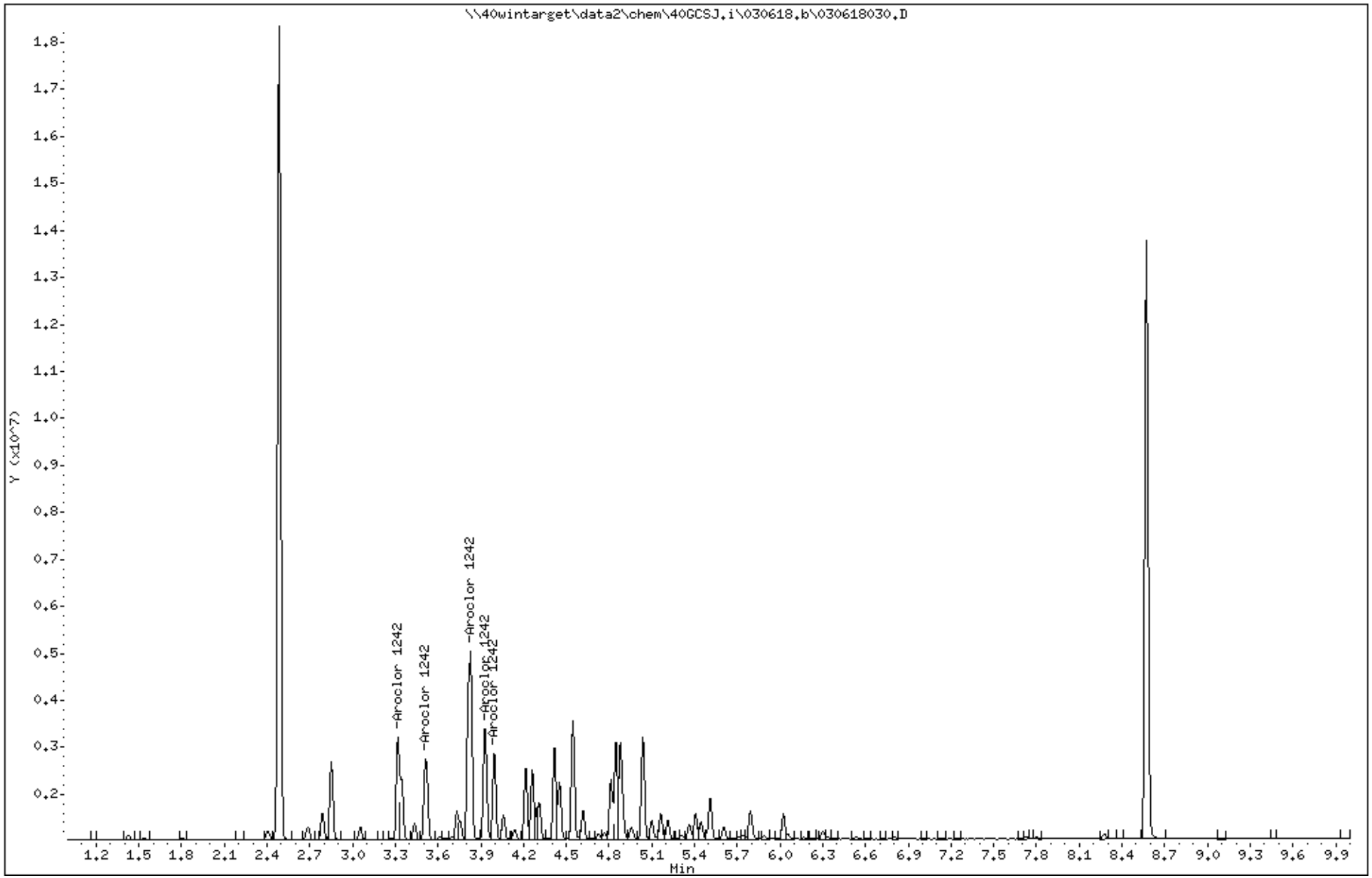
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

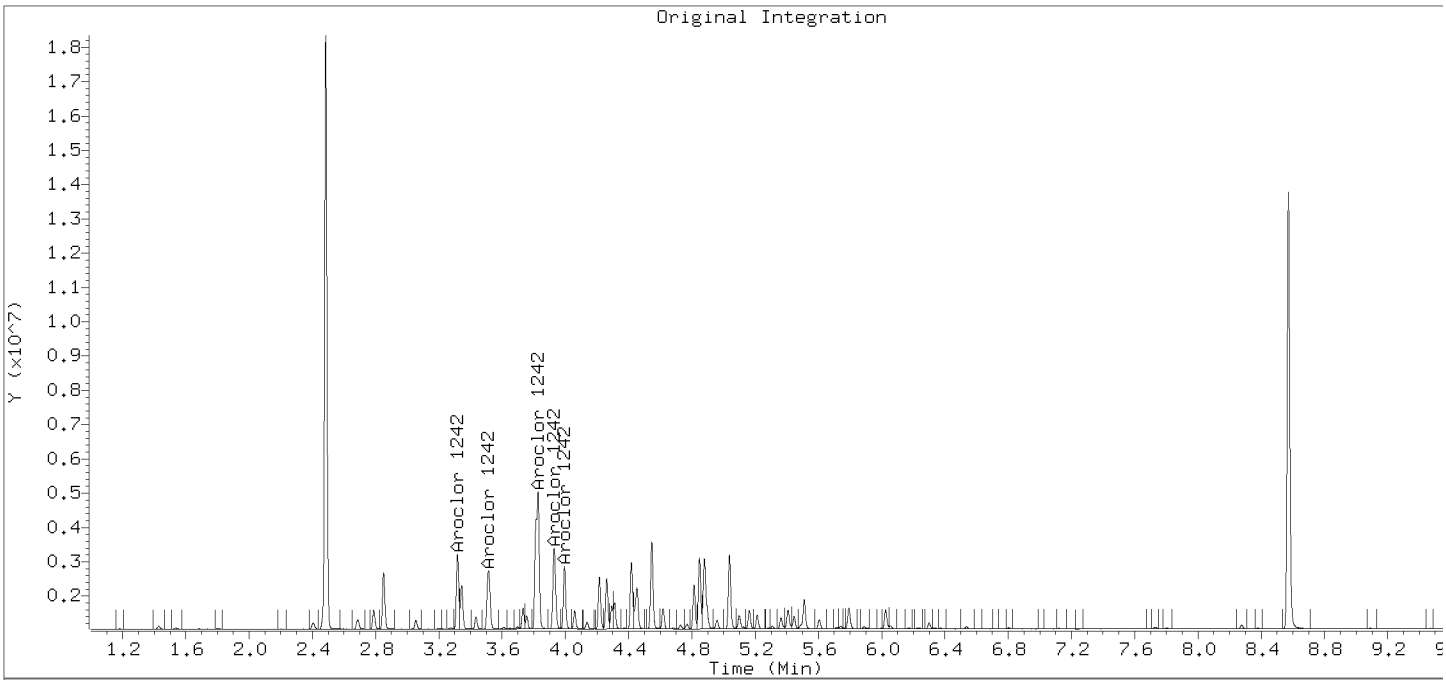
Operator: BLM

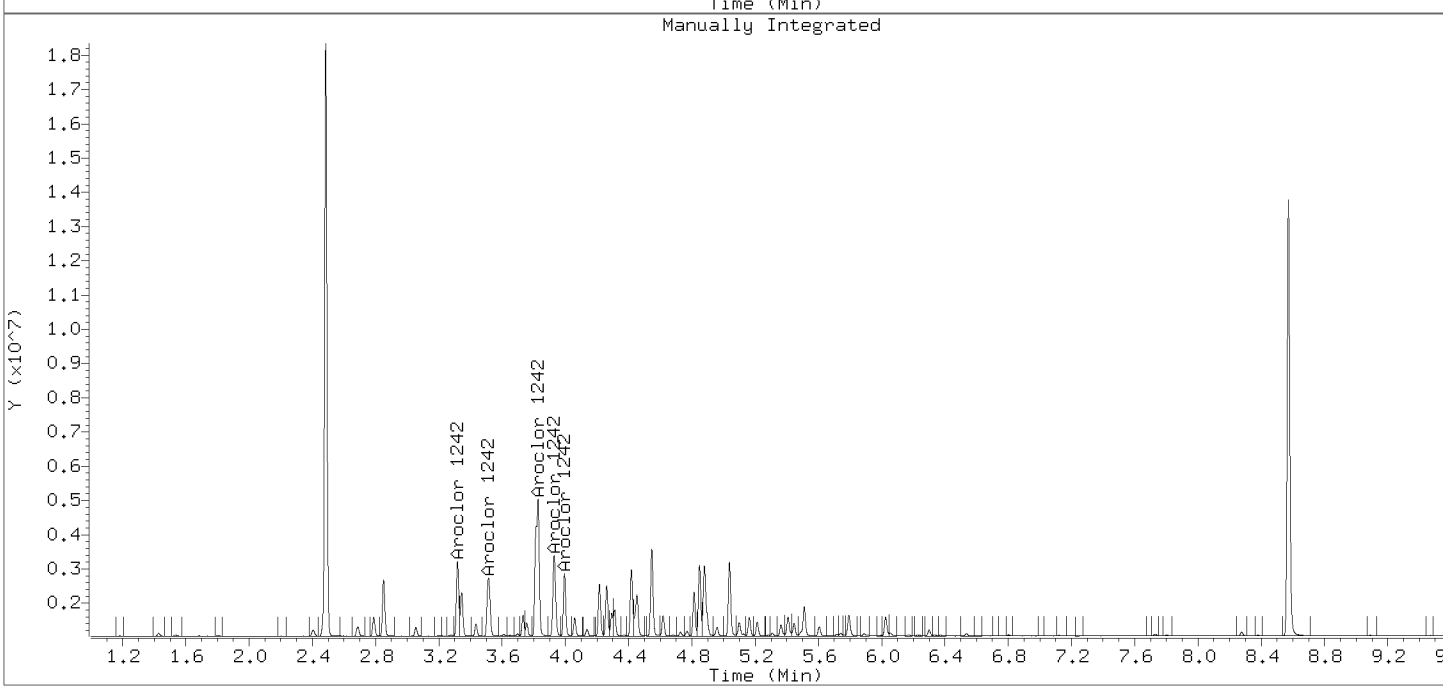
Column phase: ZB-1ms

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

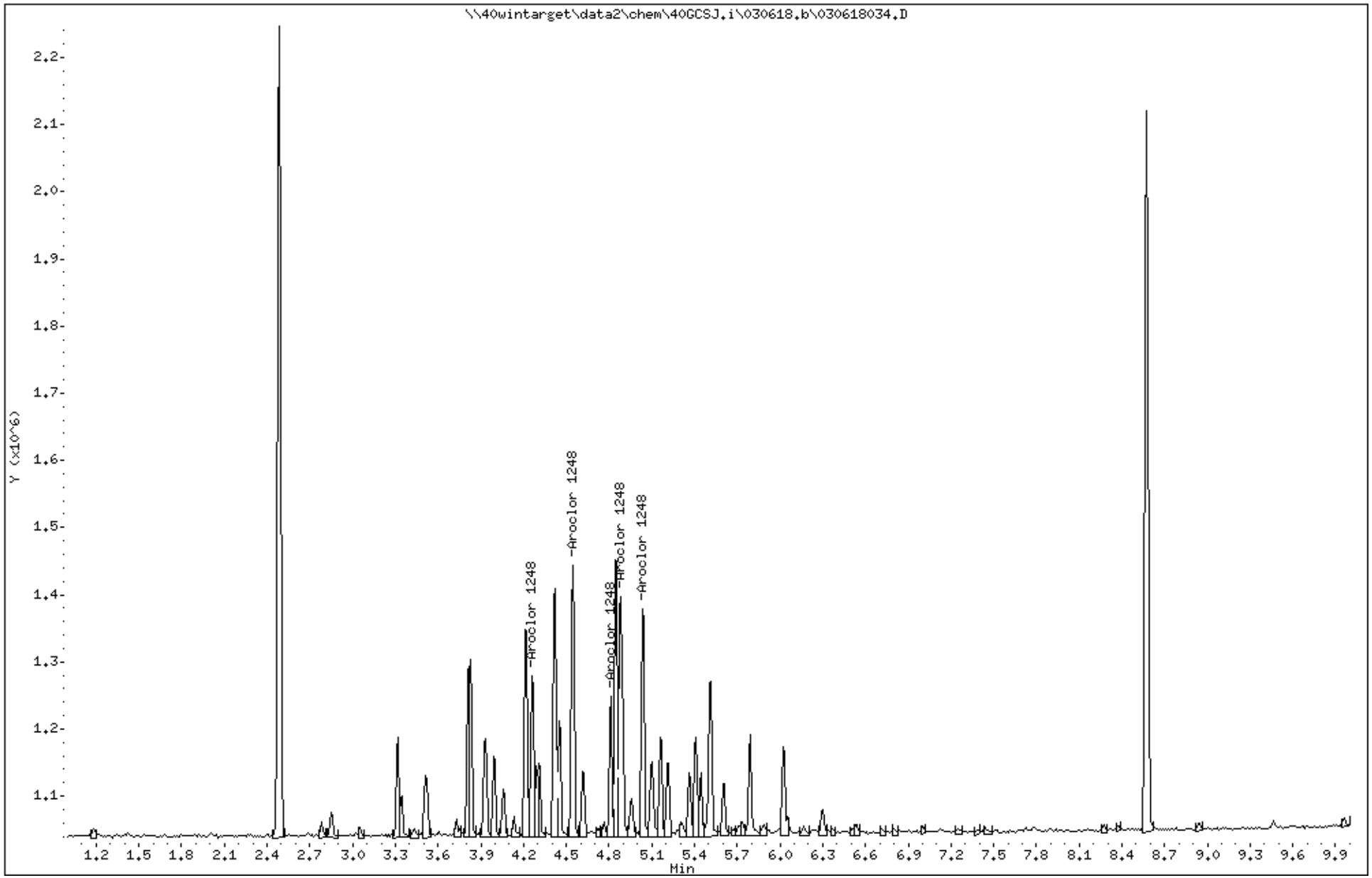
M - Compound response manually integrated.

Review Codes Legend

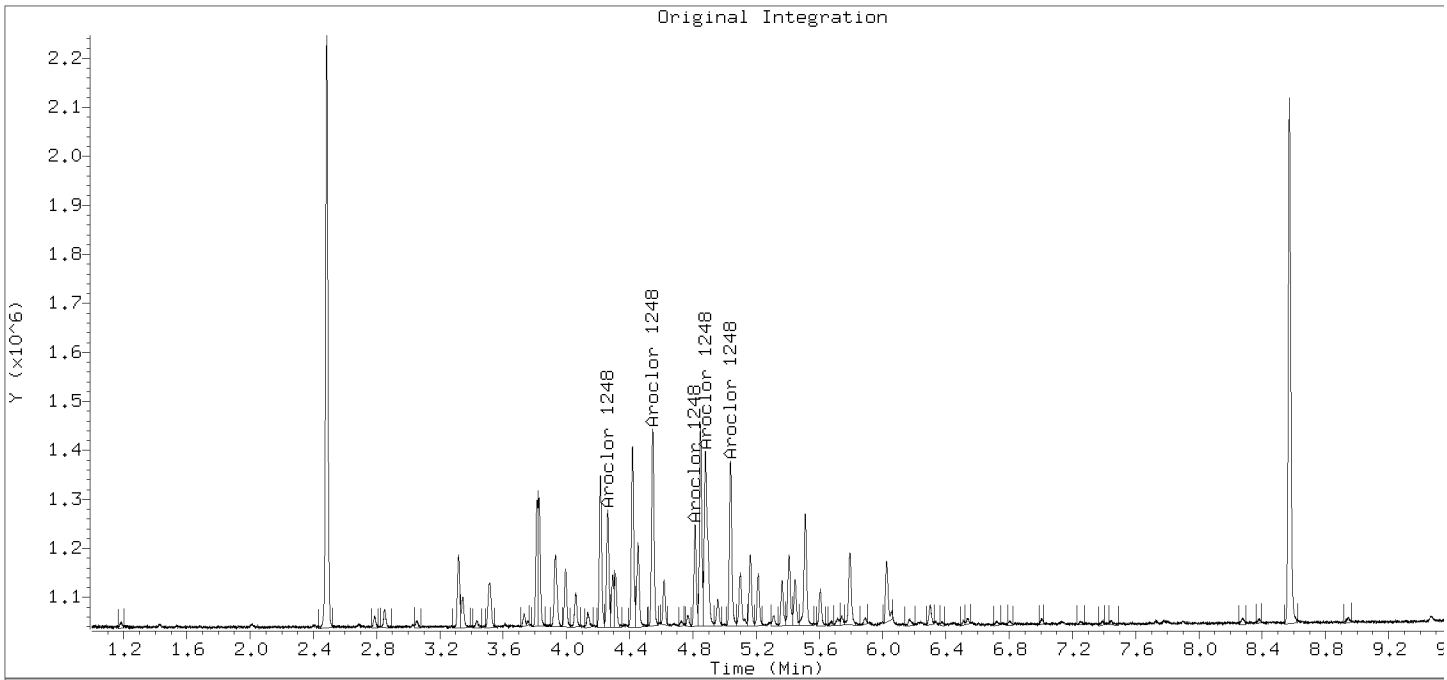
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

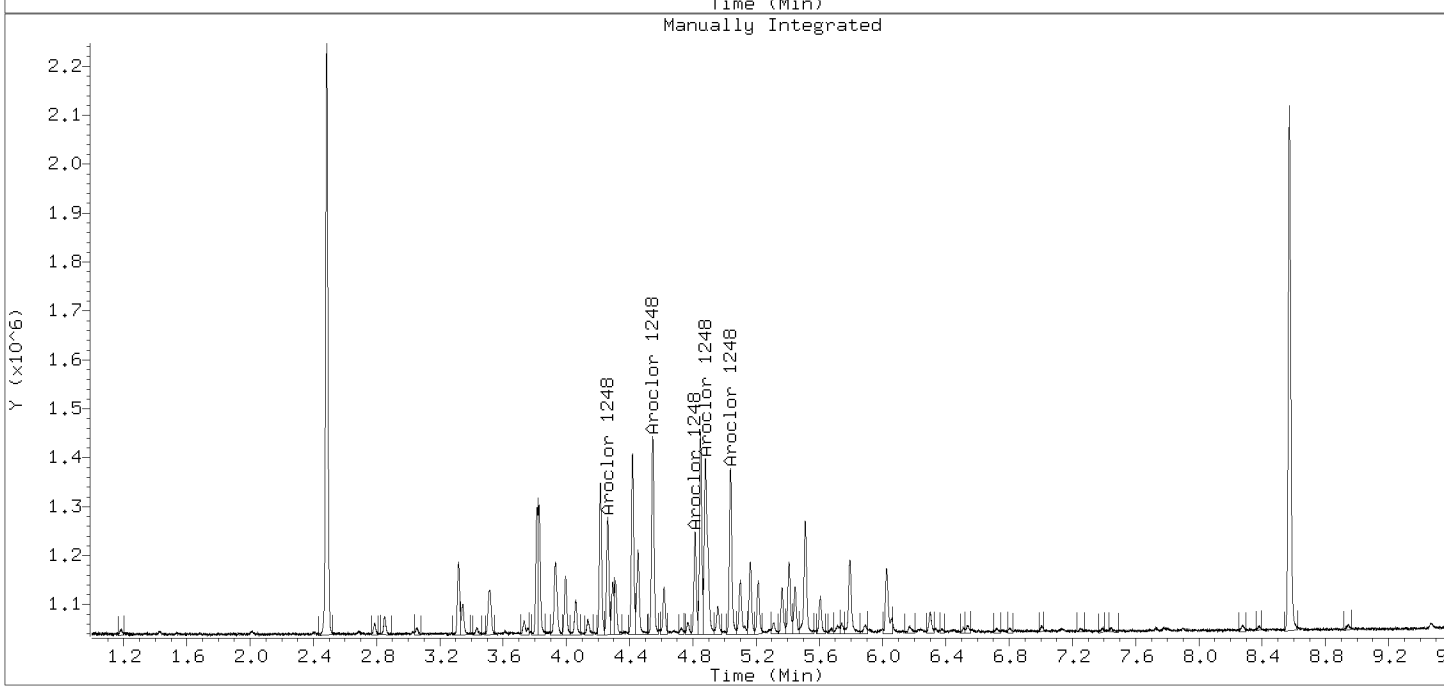
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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

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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

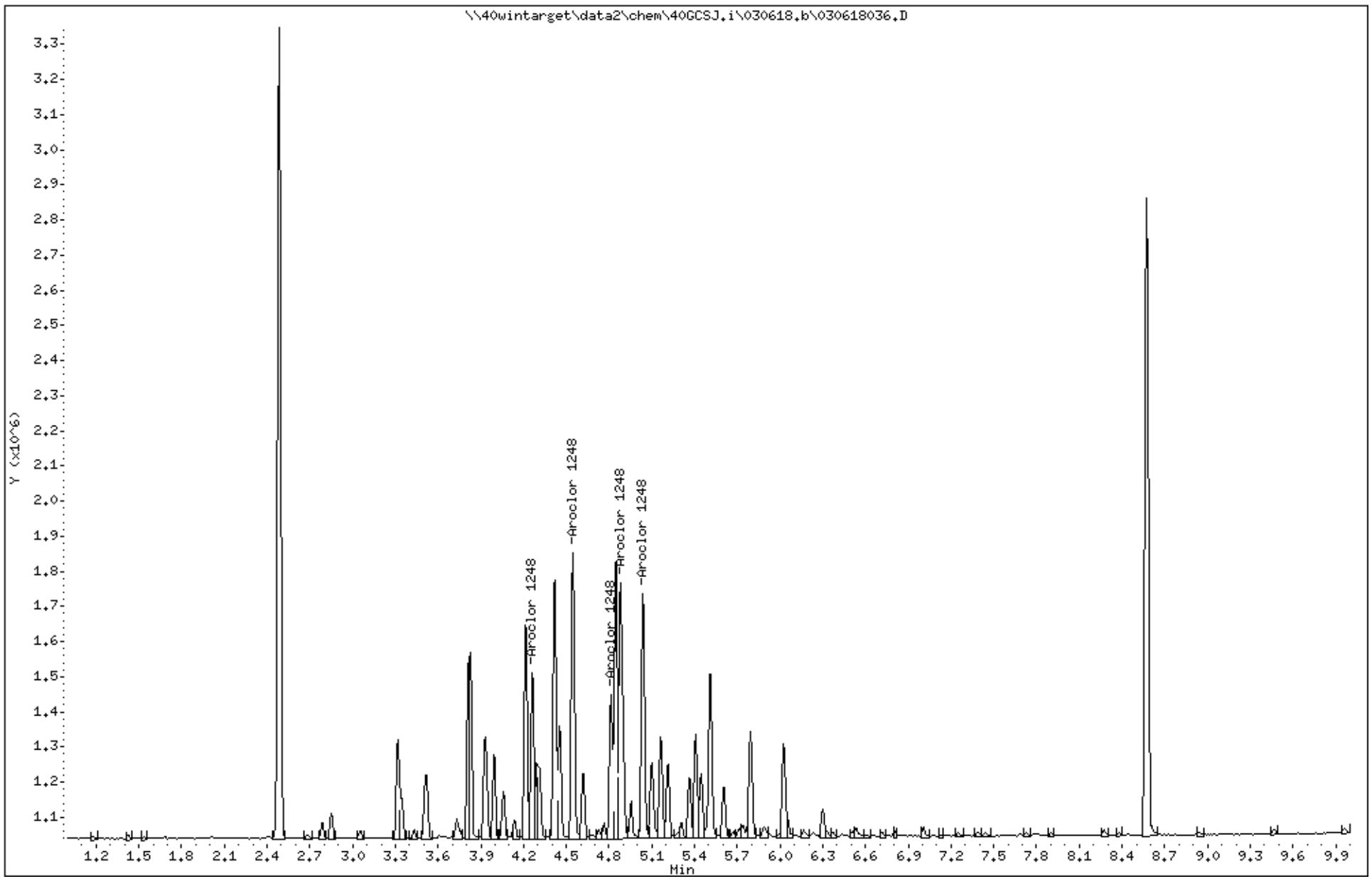
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

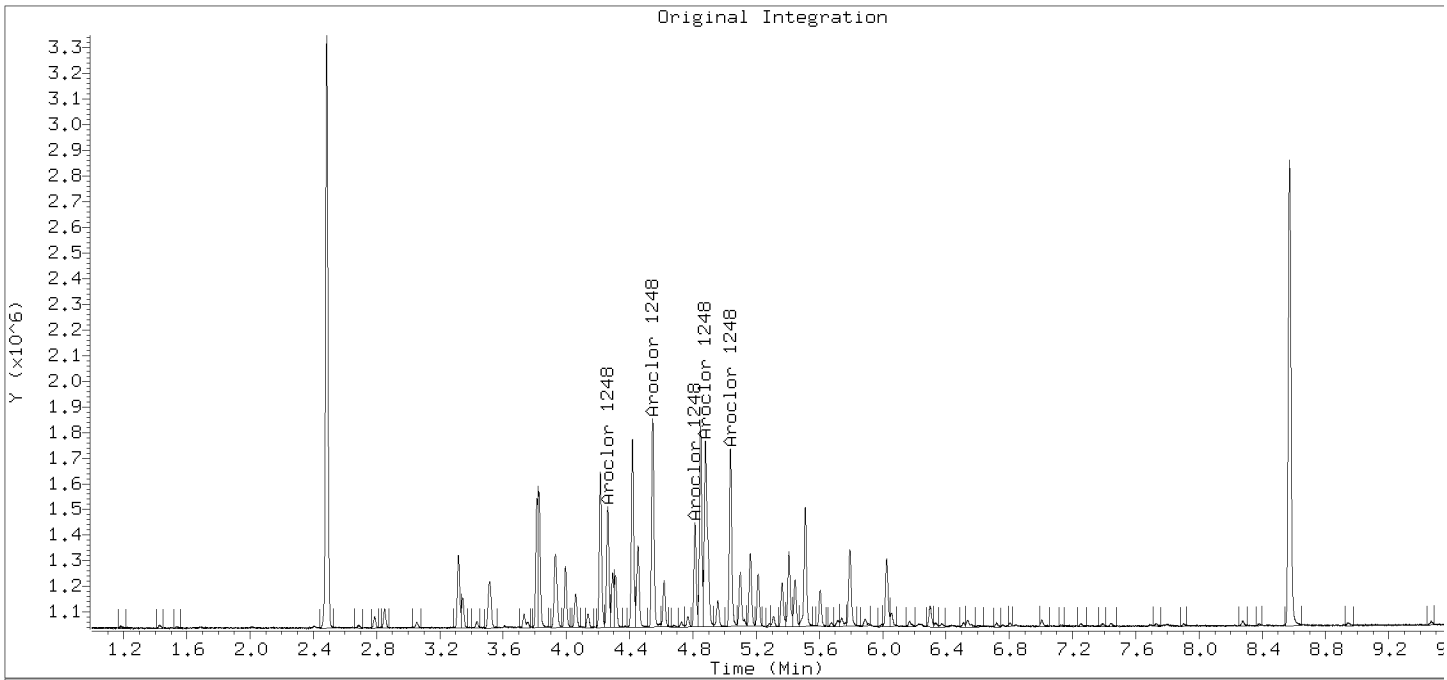
Operator: BLM

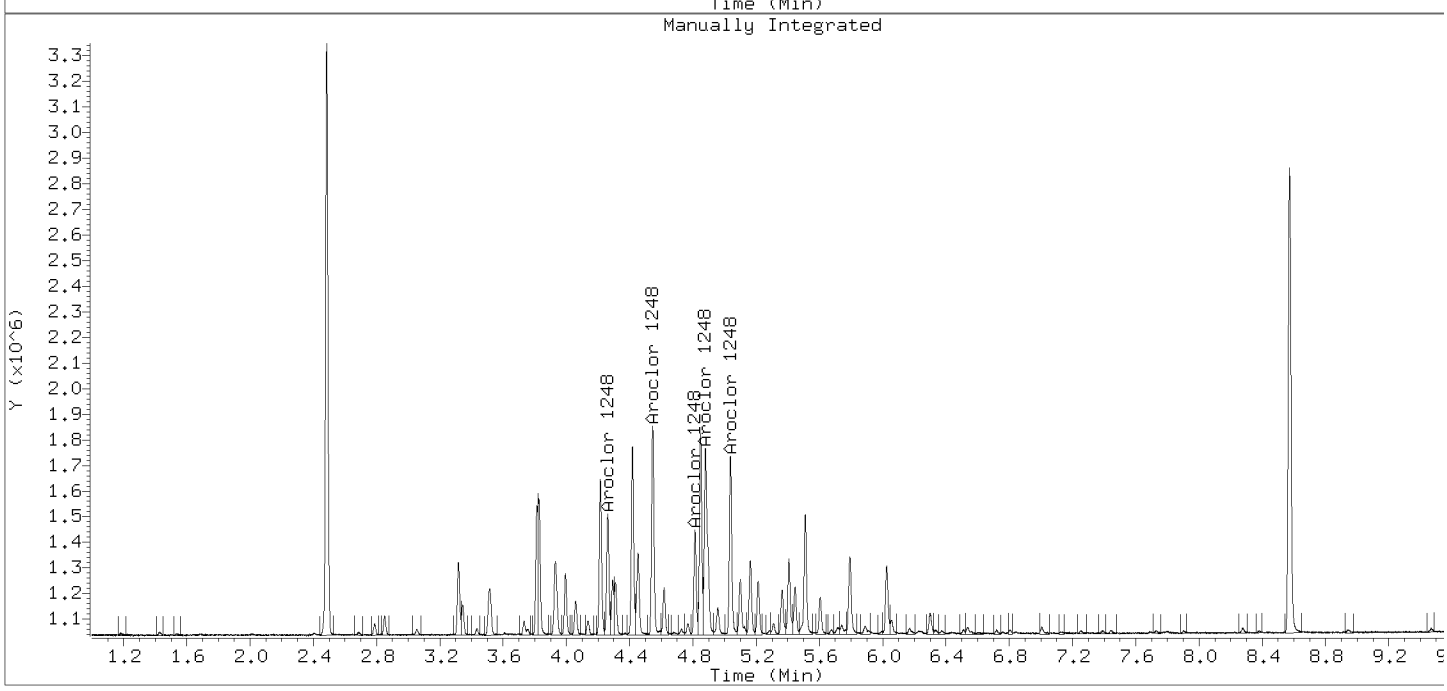
Column phase: ZB-1ms

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

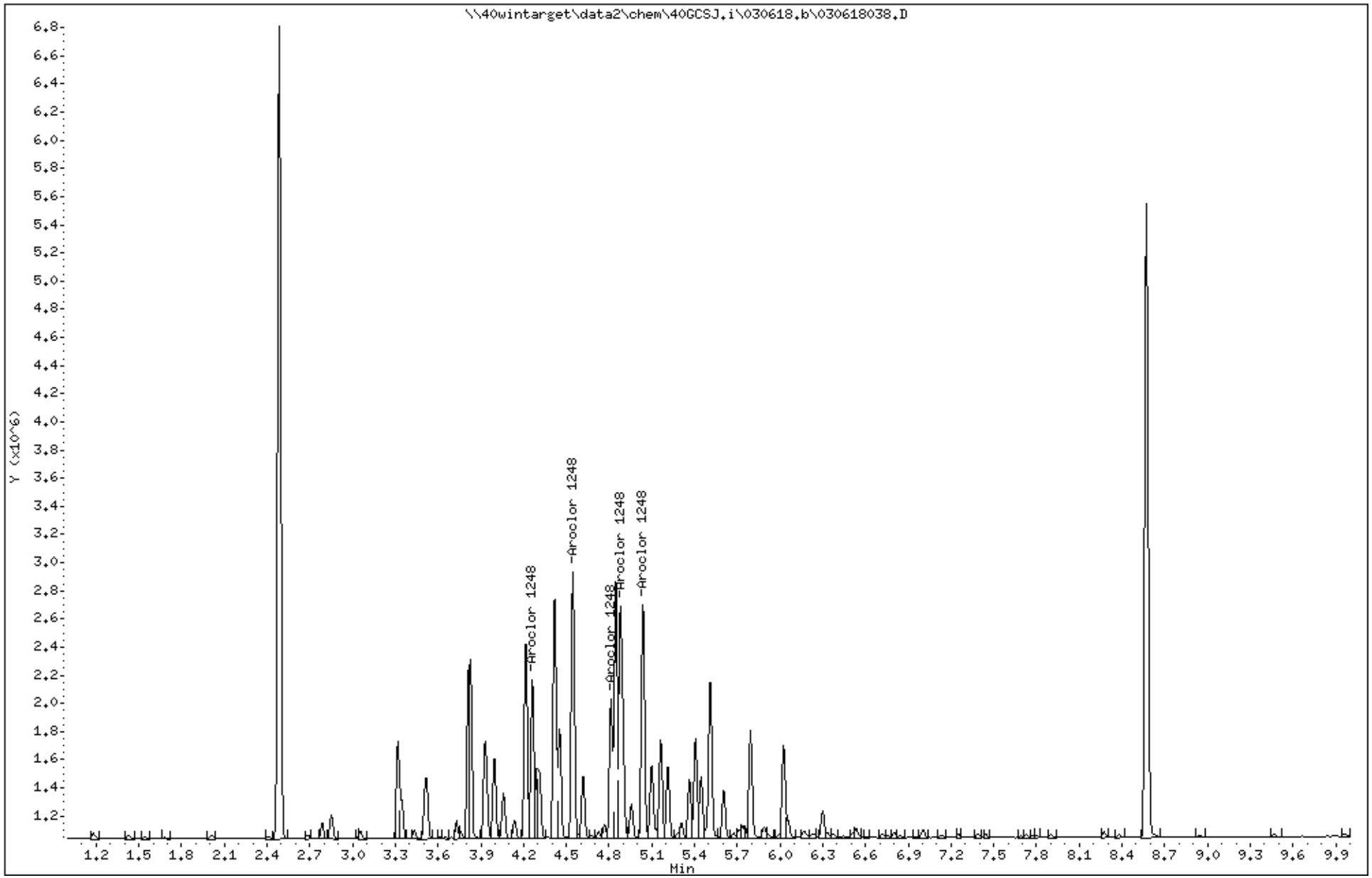
M - Compound response manually integrated.

Review Codes Legend

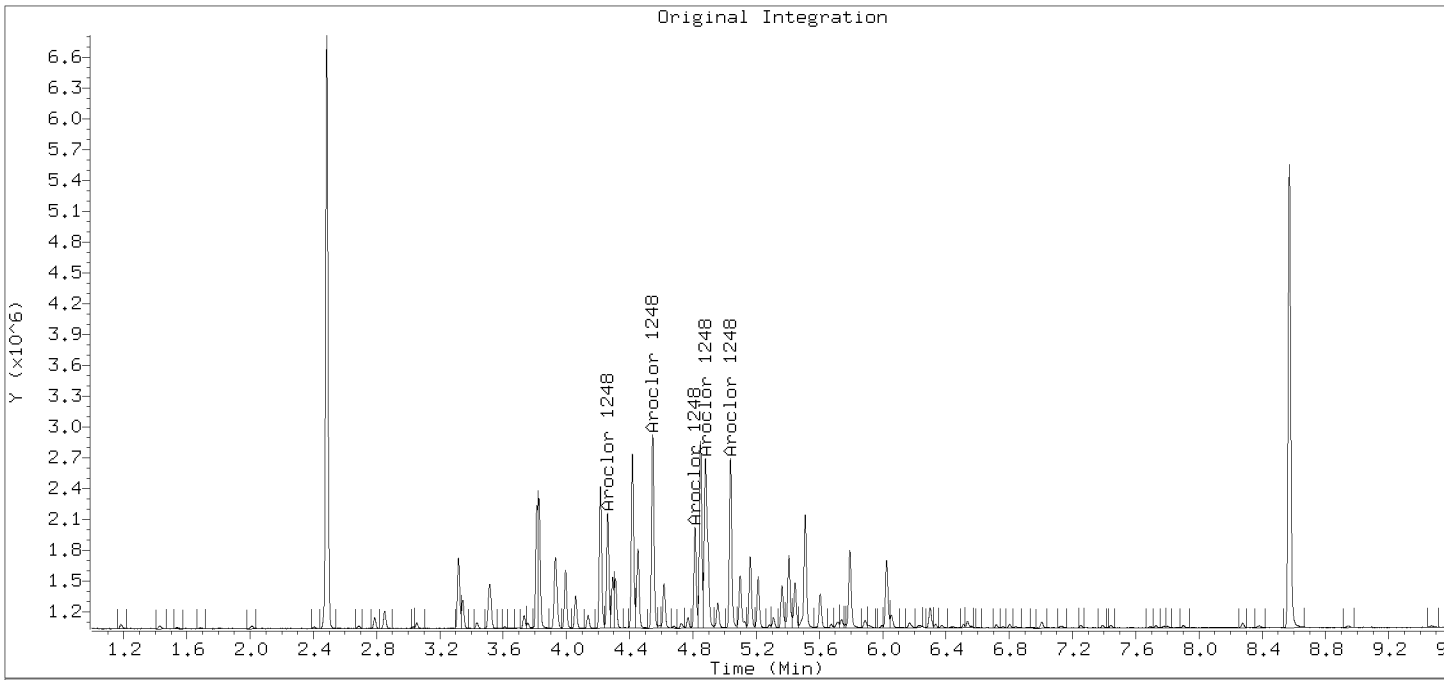
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

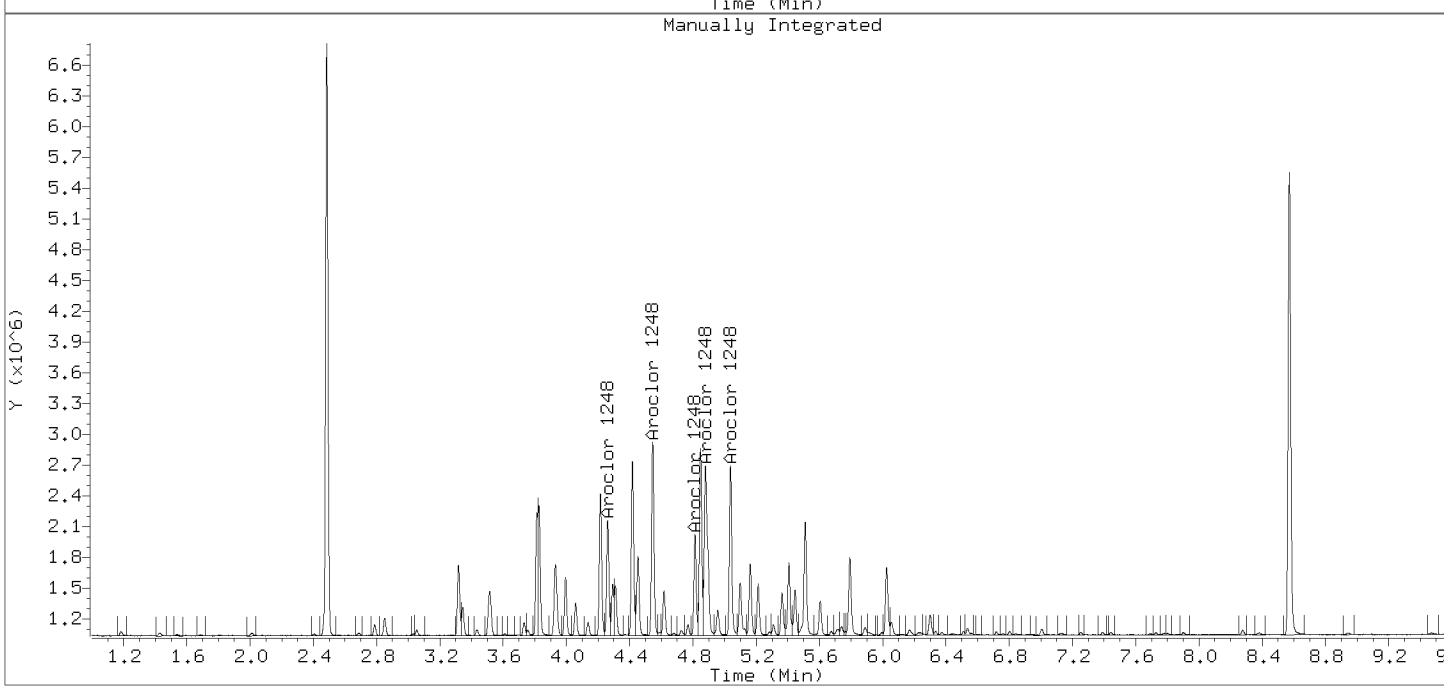
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSJ.i
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

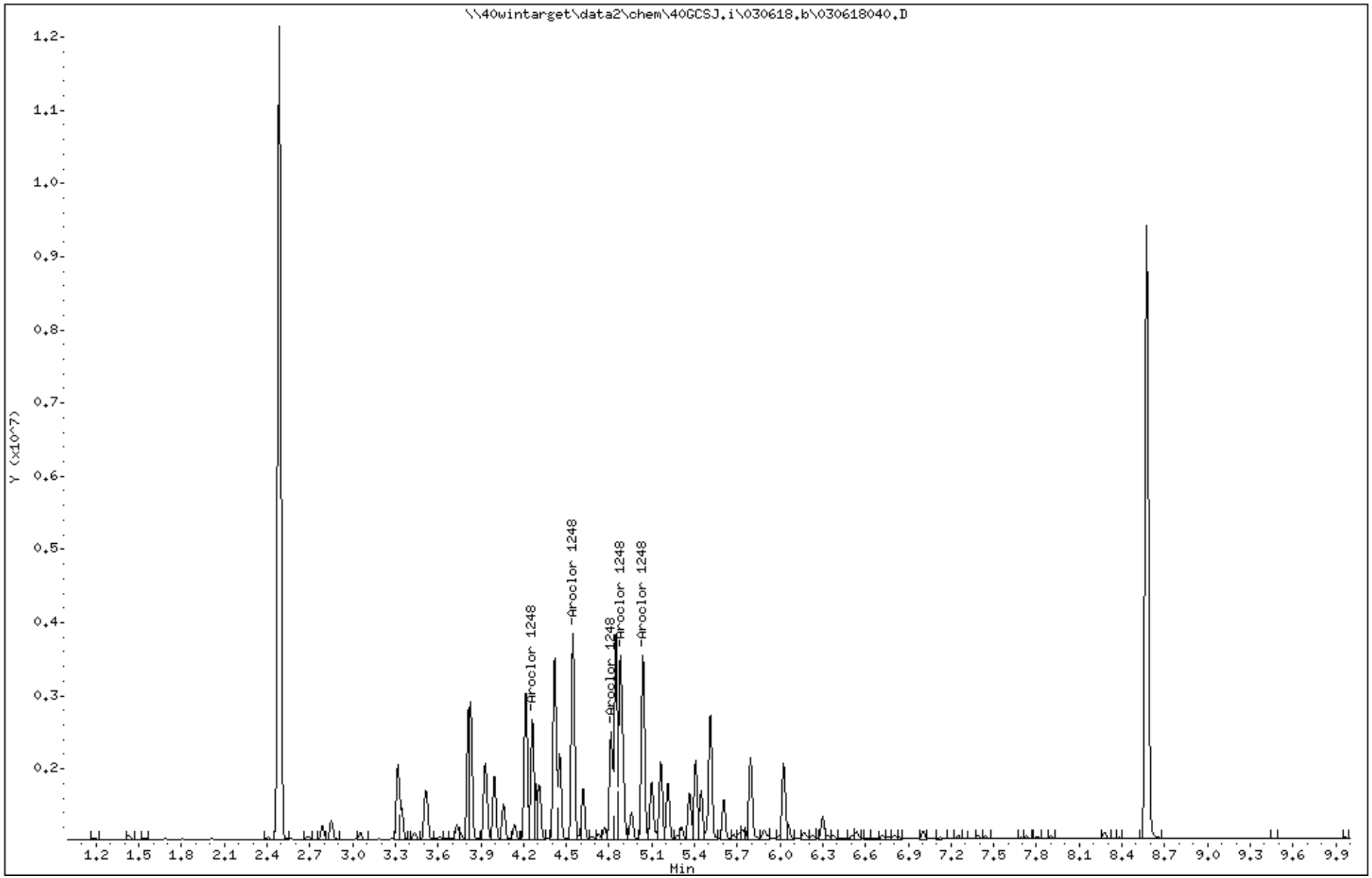
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

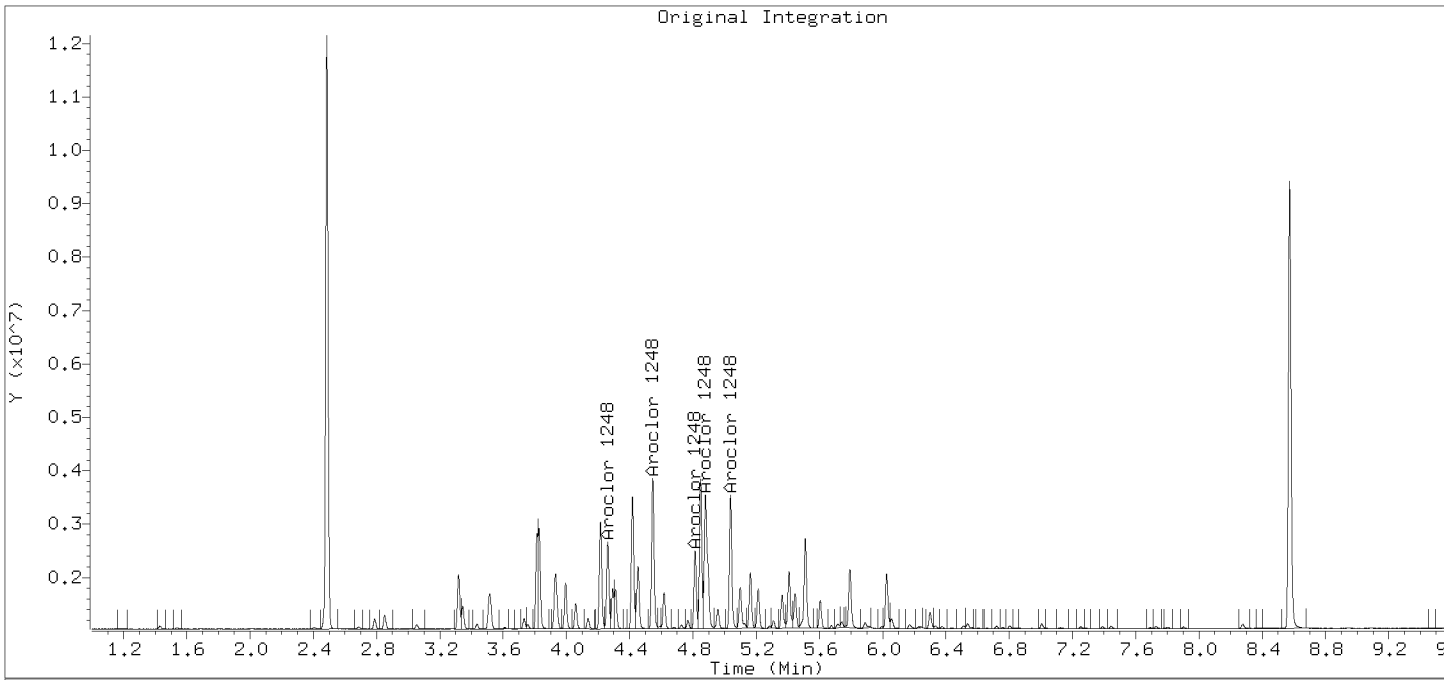
Operator: BLM

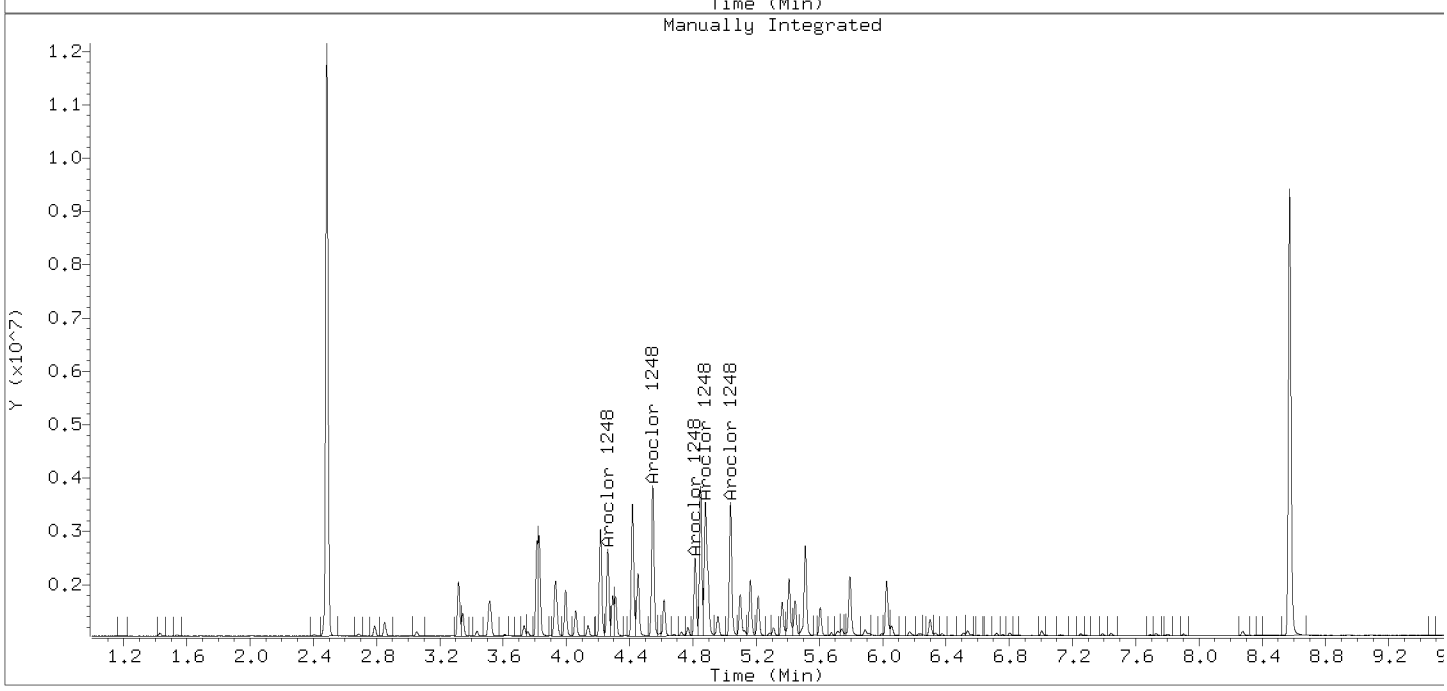
Column phase: ZB-1ms

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

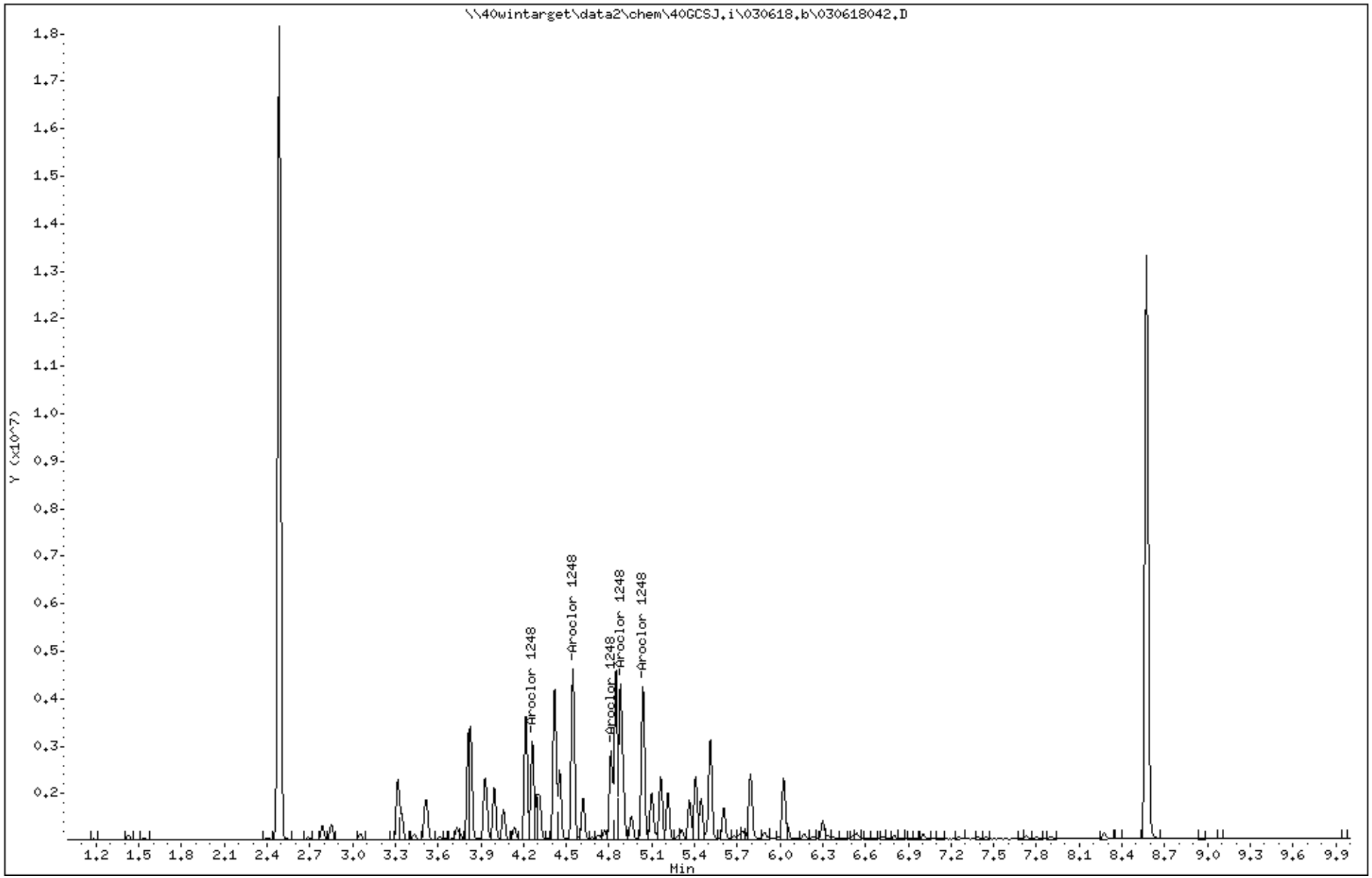
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

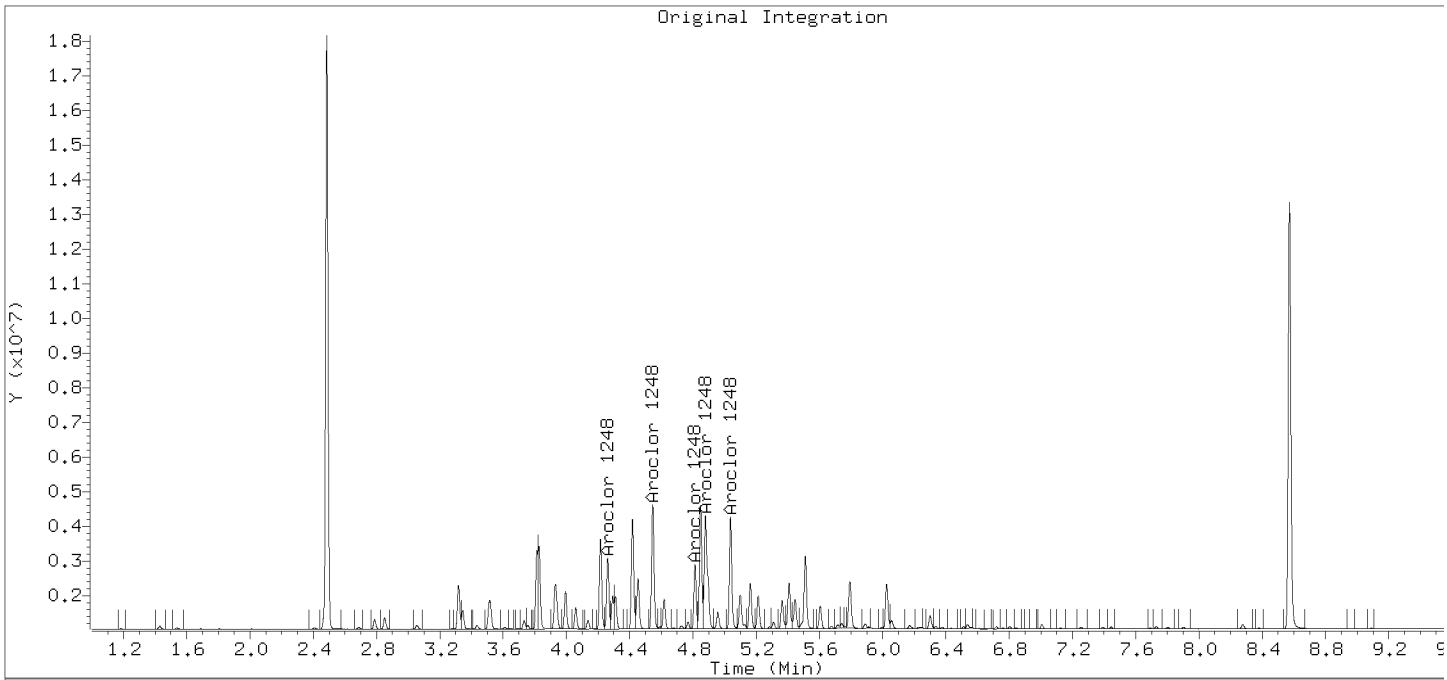
Operator: BLM

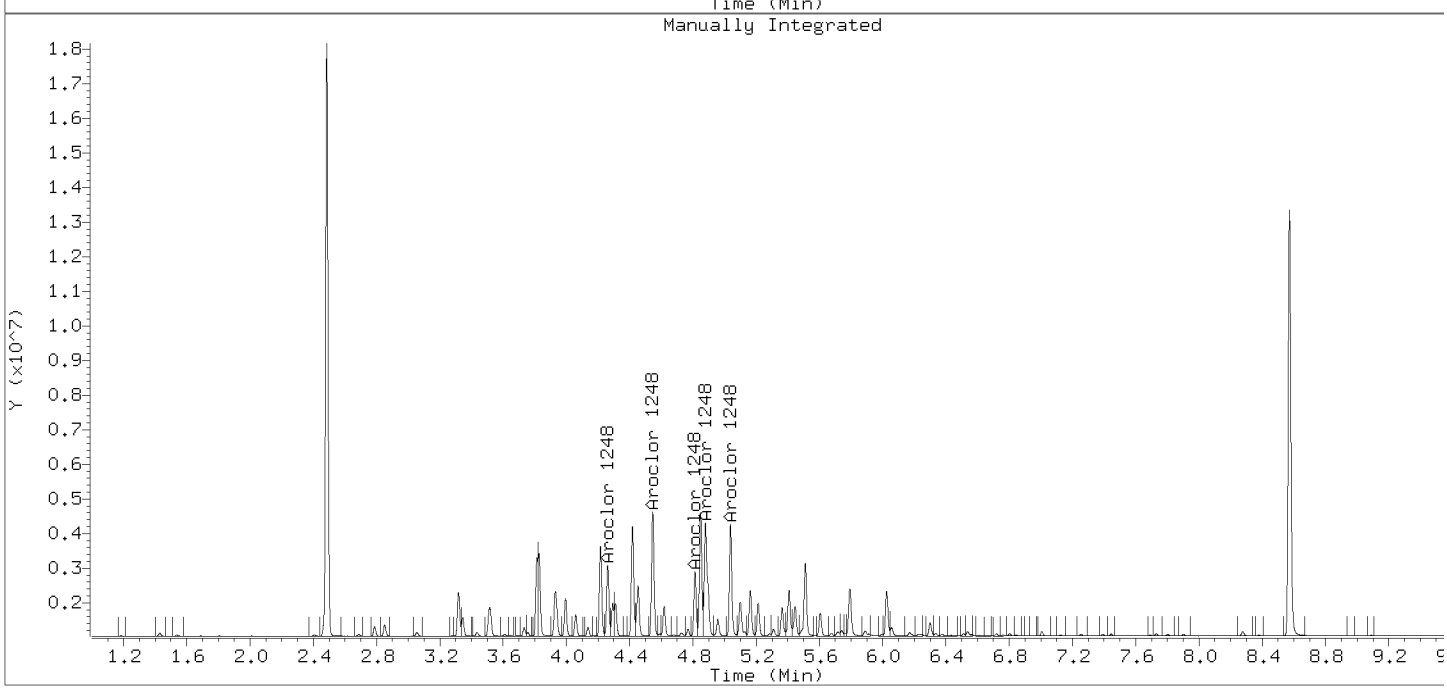
Column phase: ZB-1ms

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

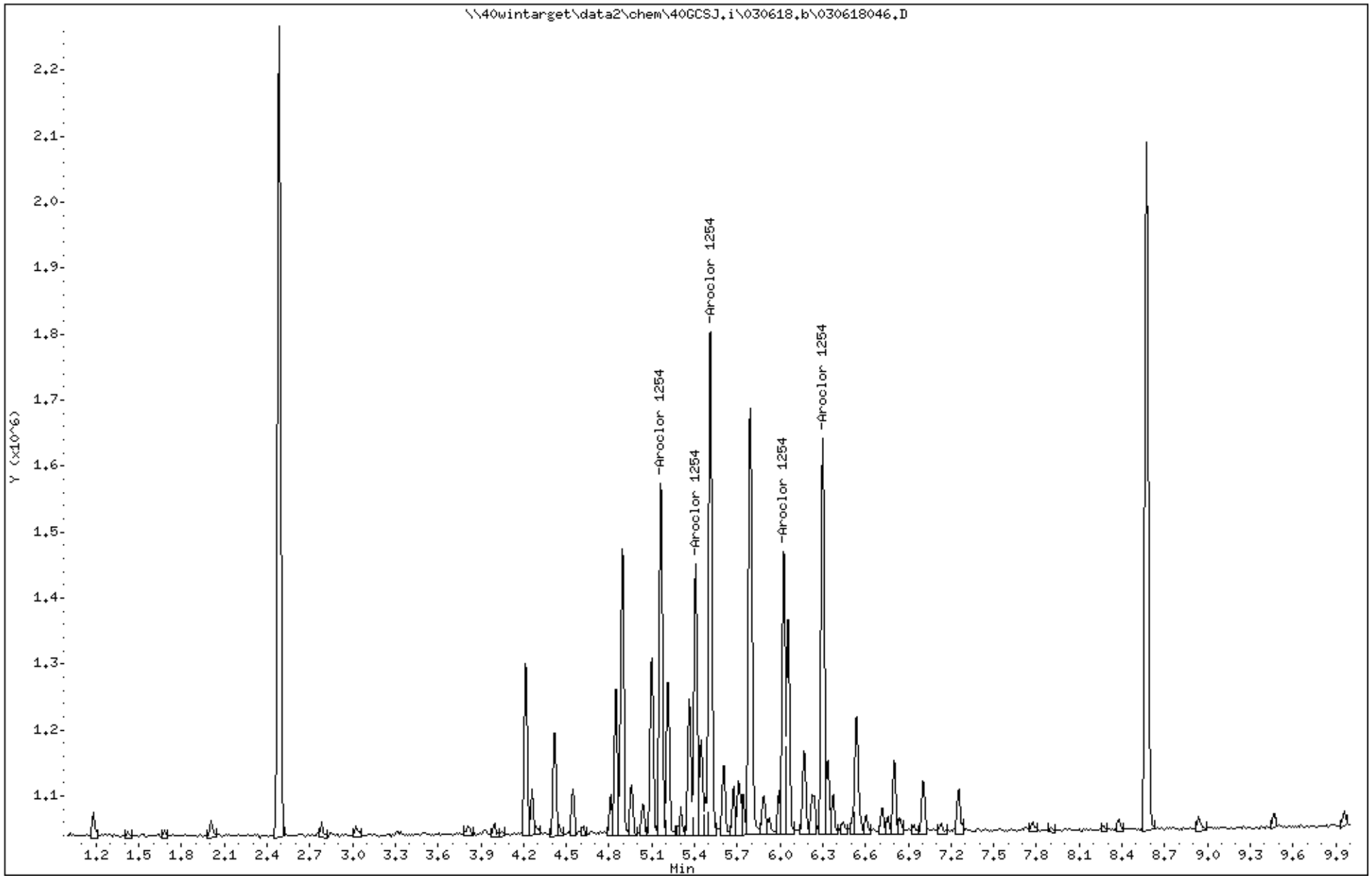
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

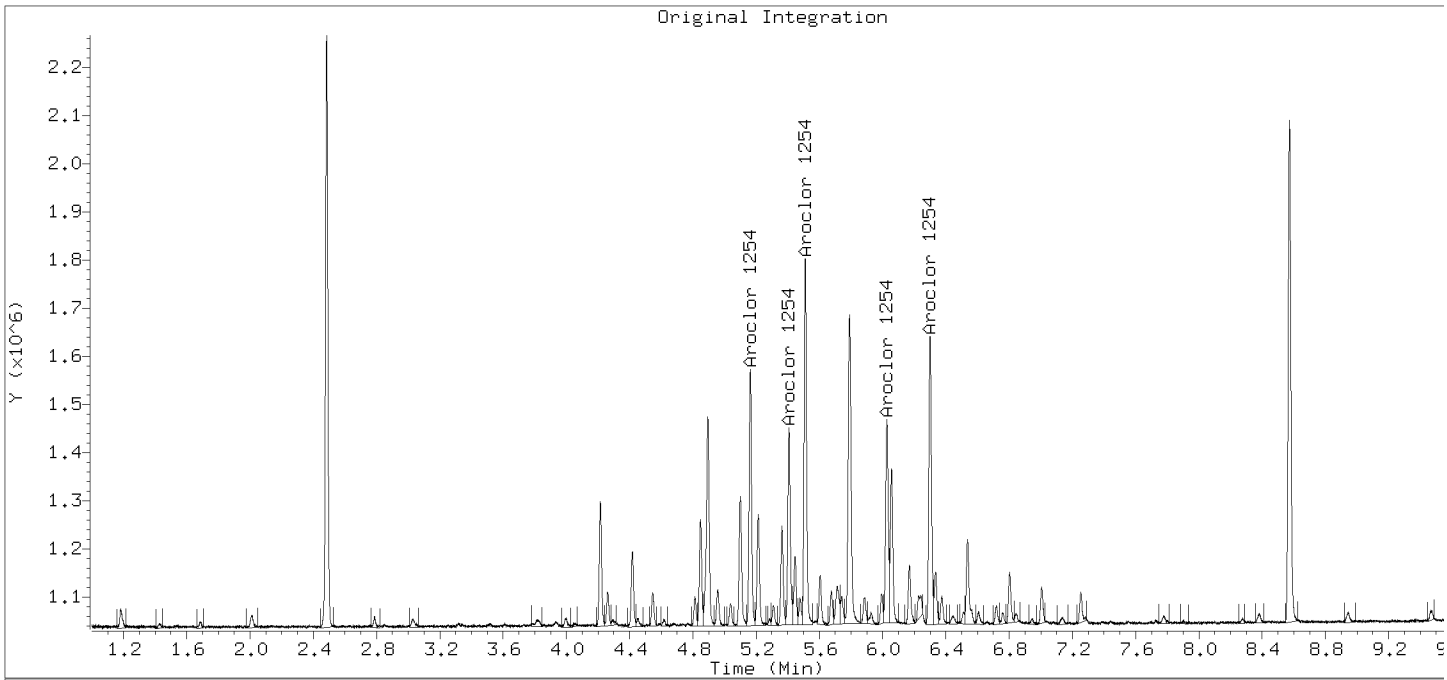
Operator: BLM

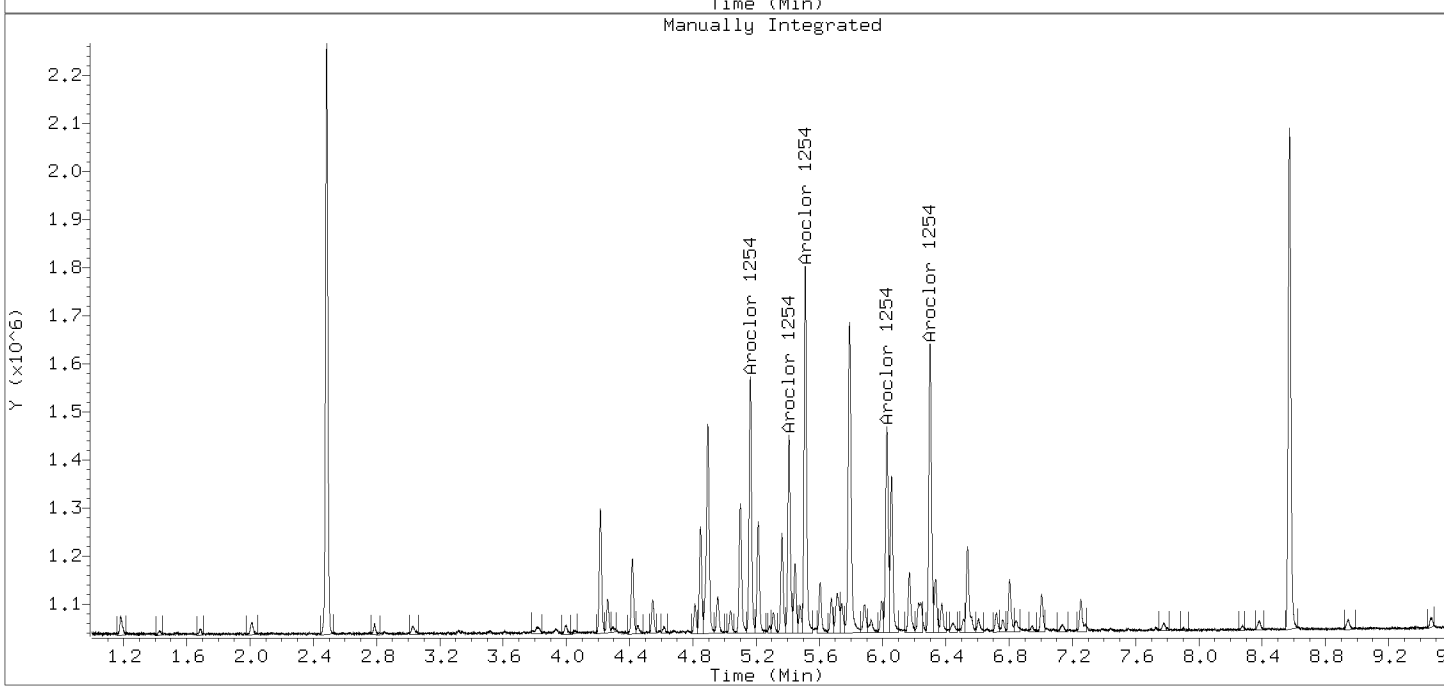
Column phase: ZB-1ms

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

Pace Analytical Services, Inc.

SW846-8082

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

Pace Analytical Services, Inc.

SW846-8082

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

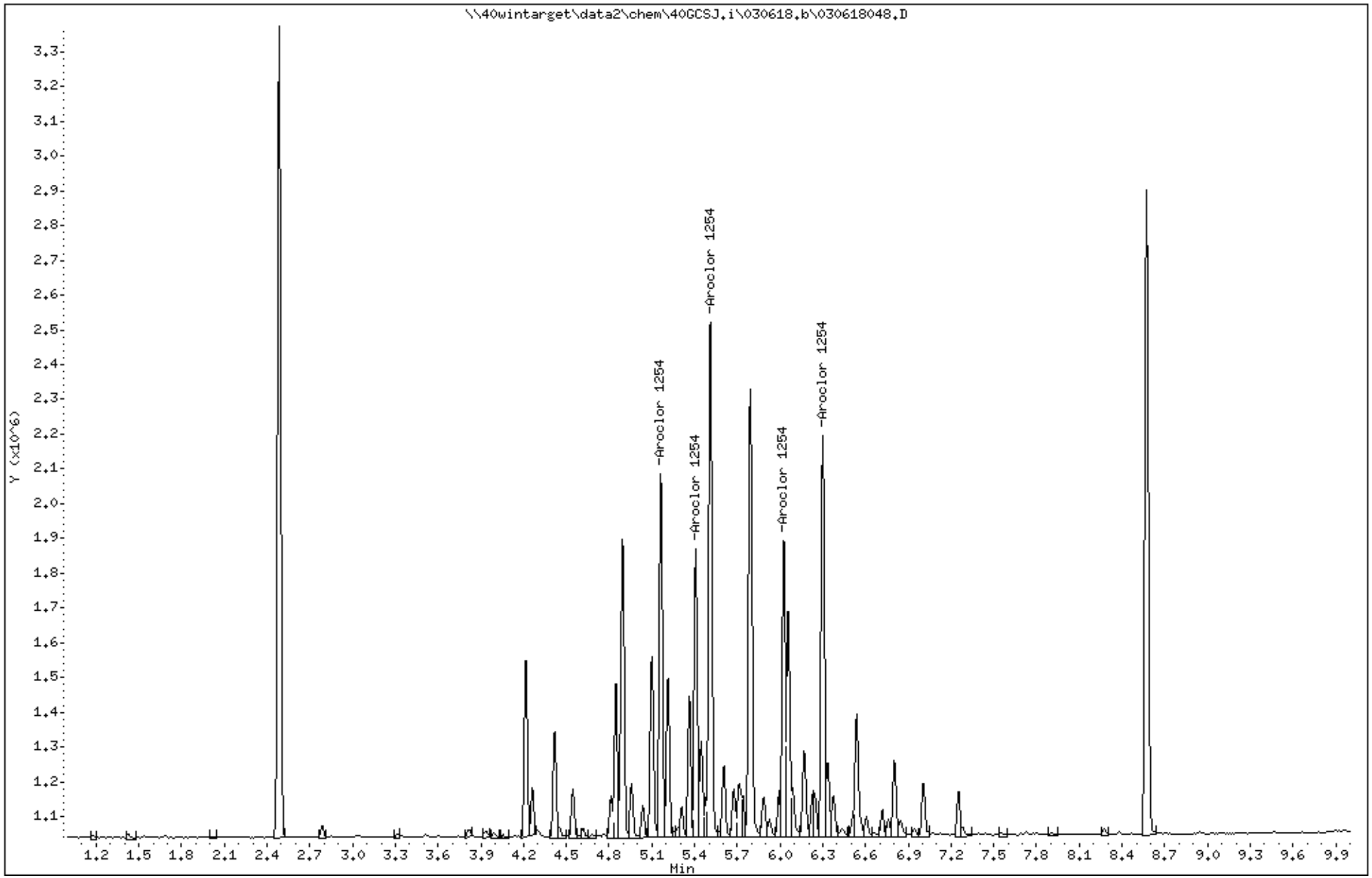
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

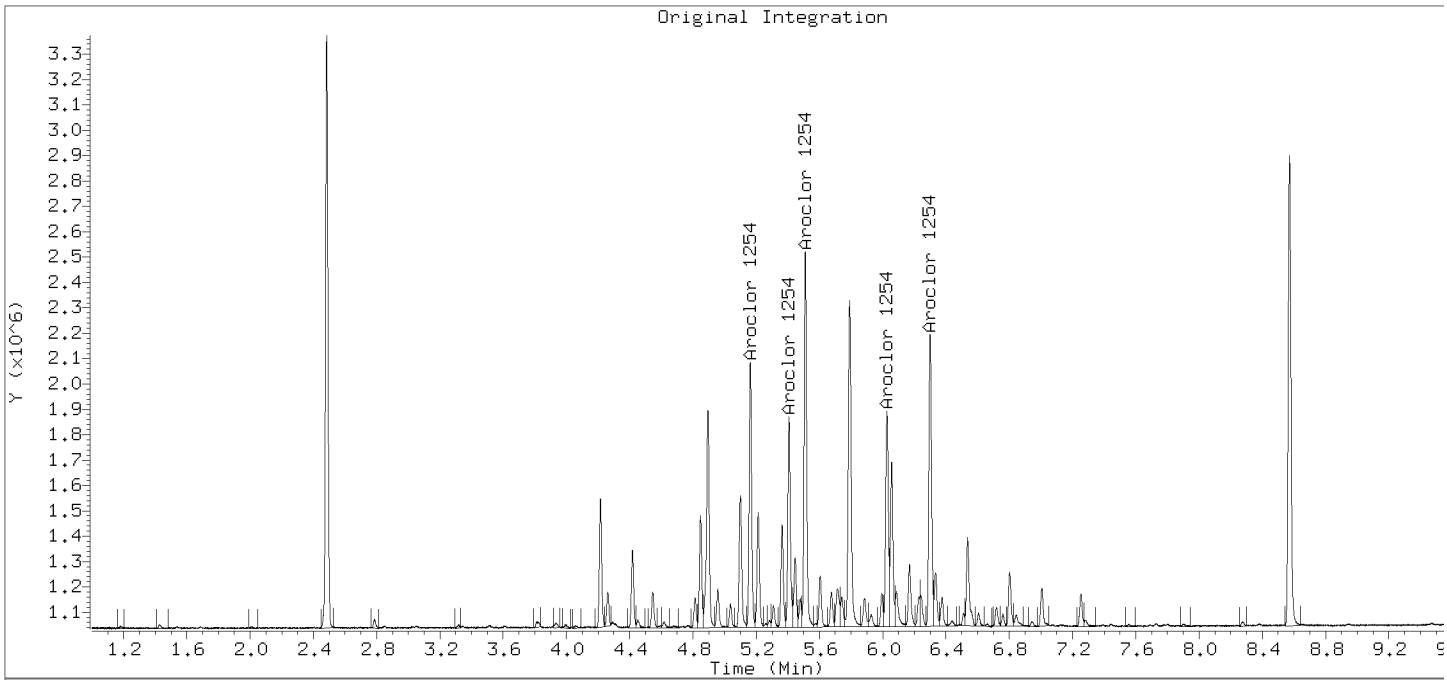
Operator: BLM

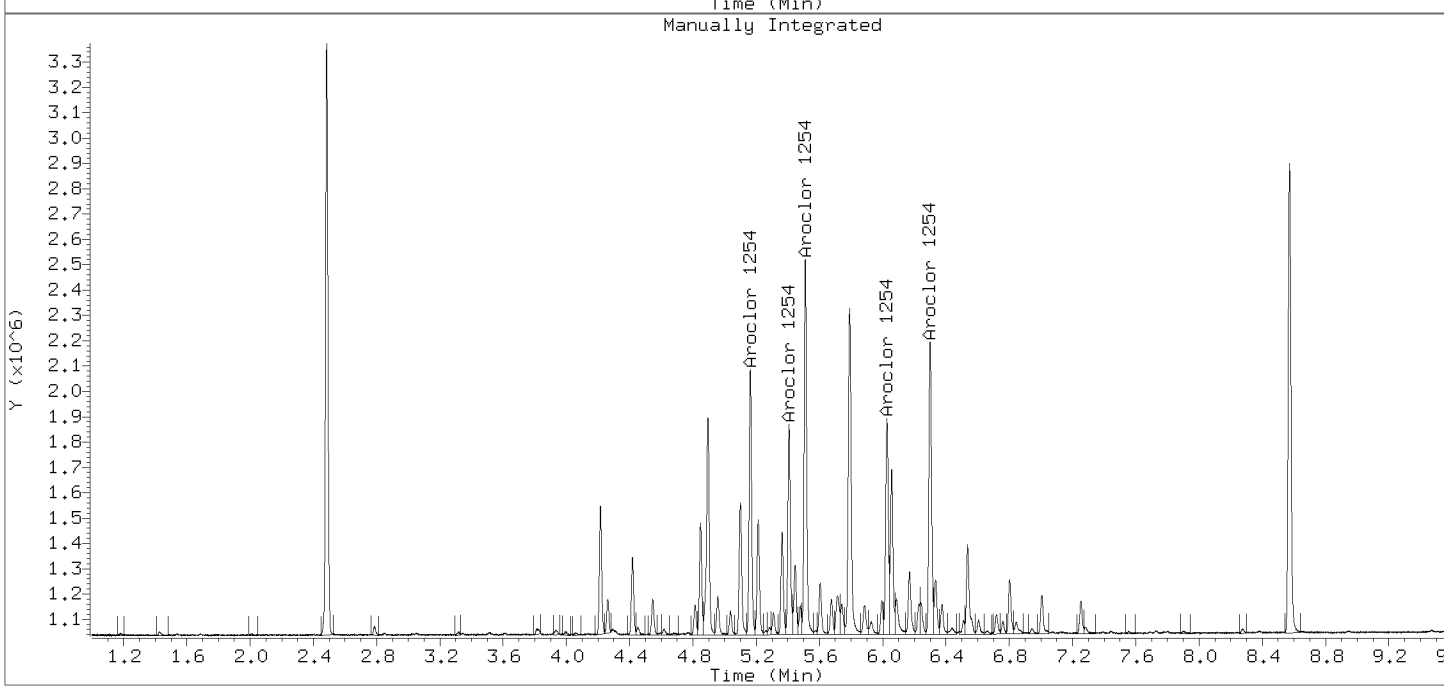
Column phase: ZB-1ms

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

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: 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

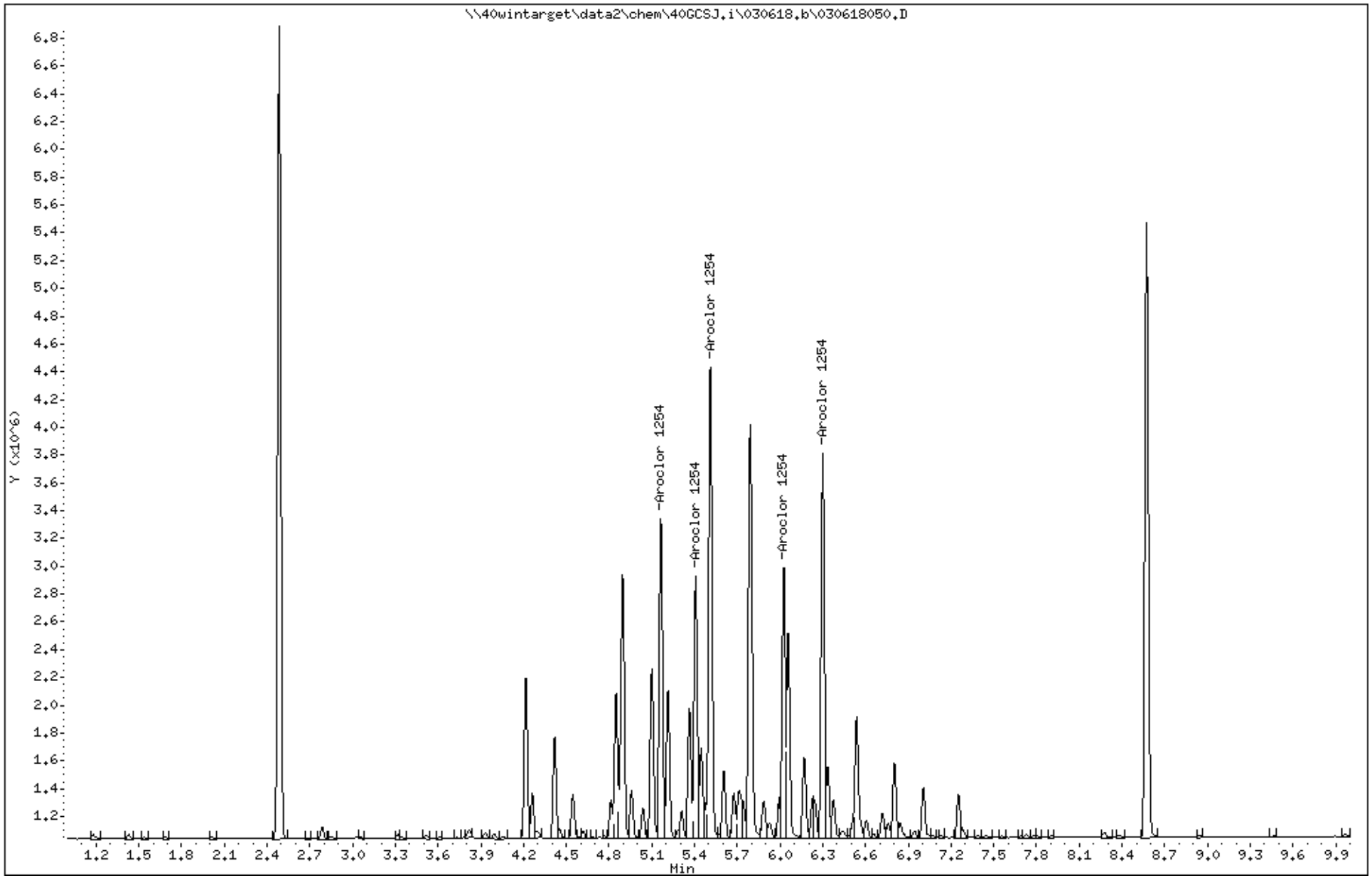
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

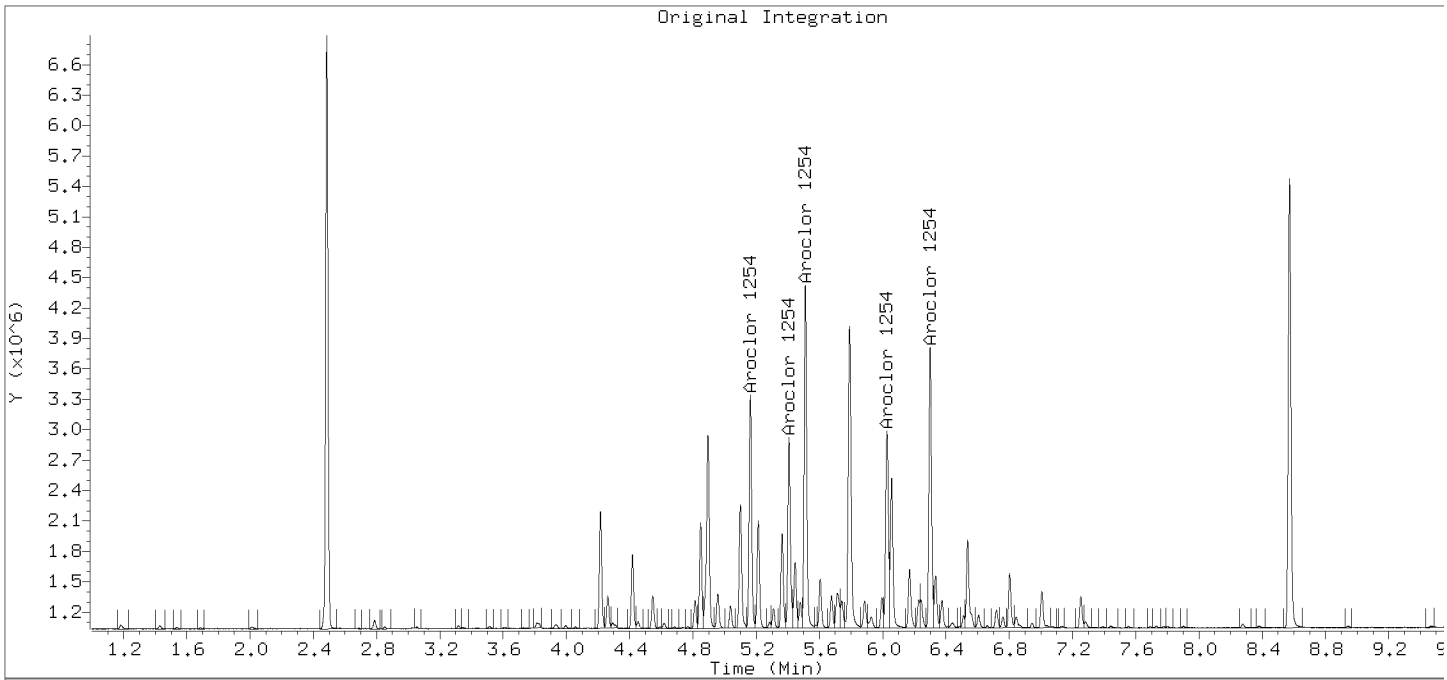
Operator: BLM

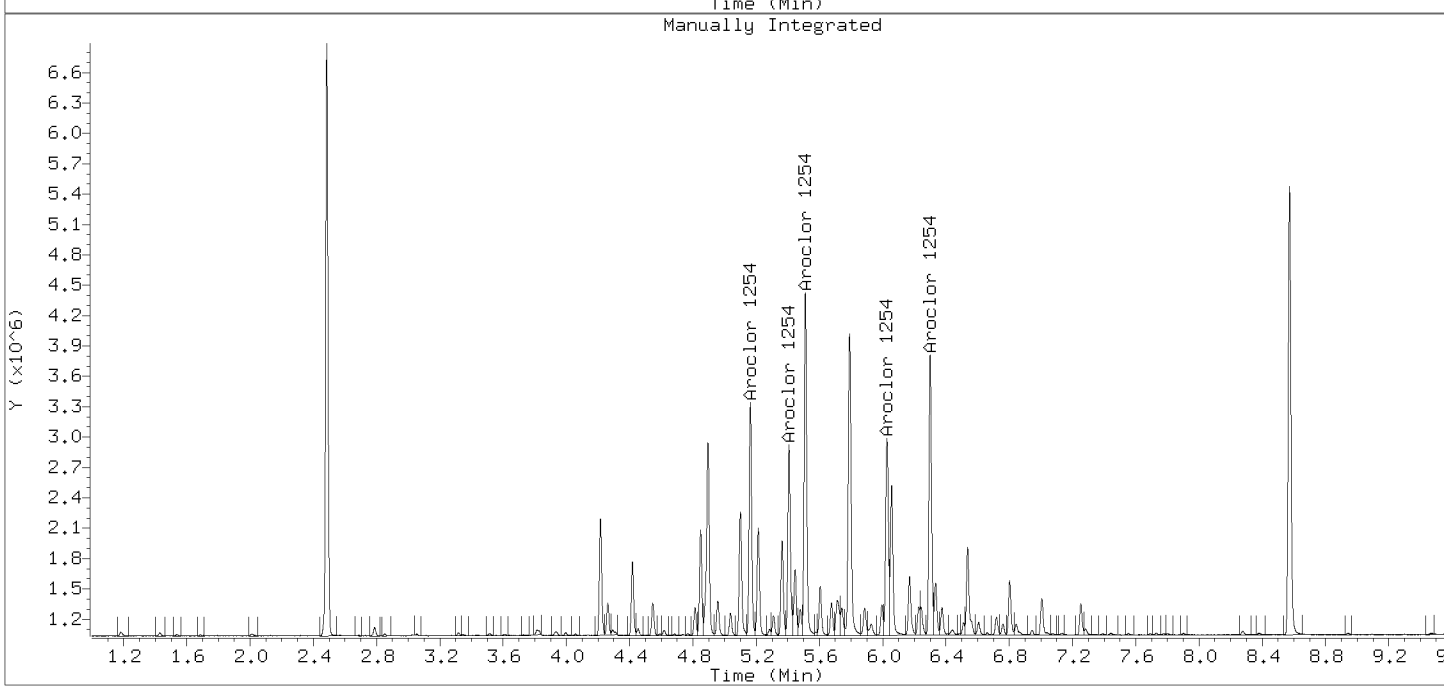
Column phase: ZB-1ms

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.

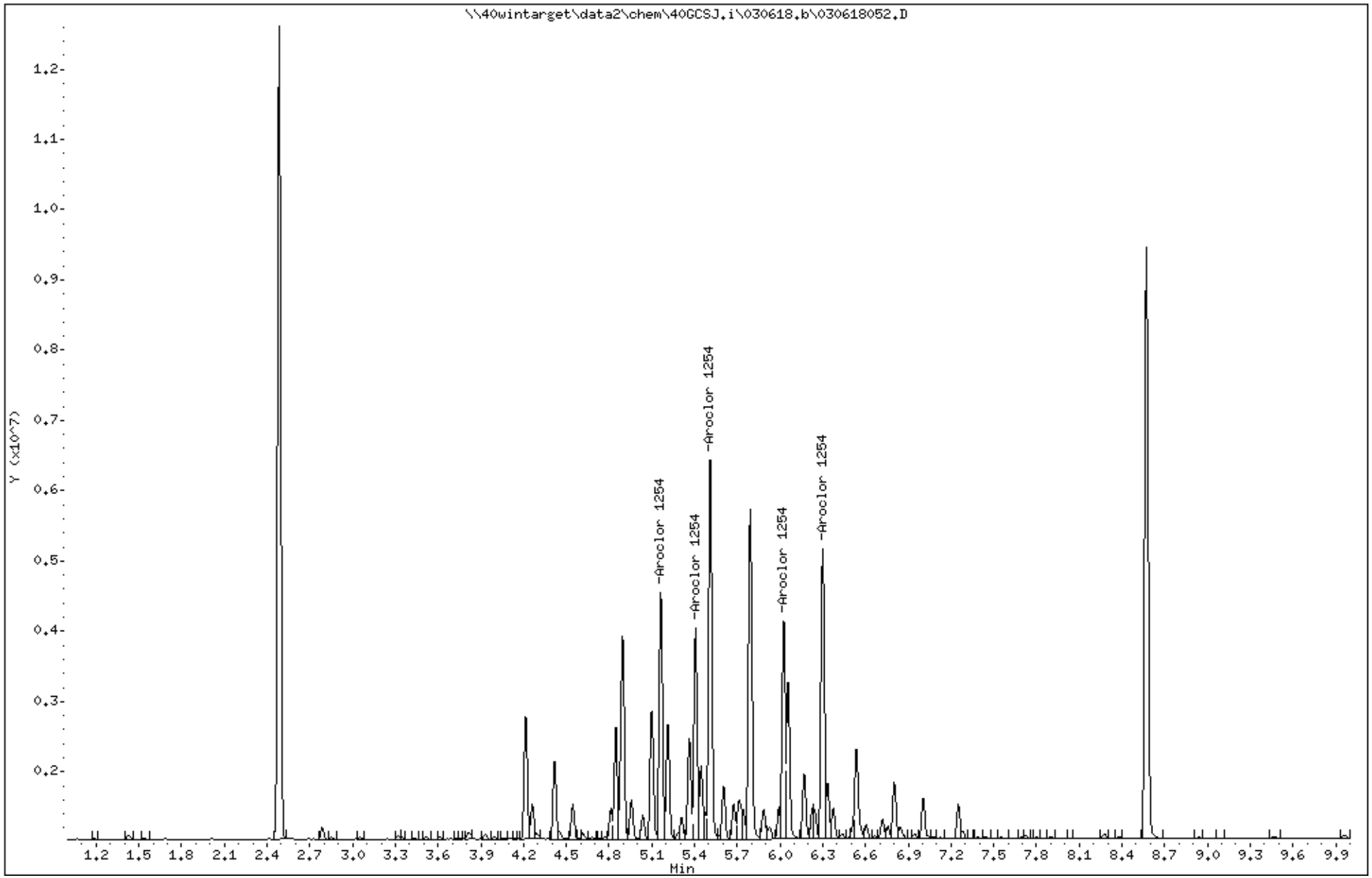
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

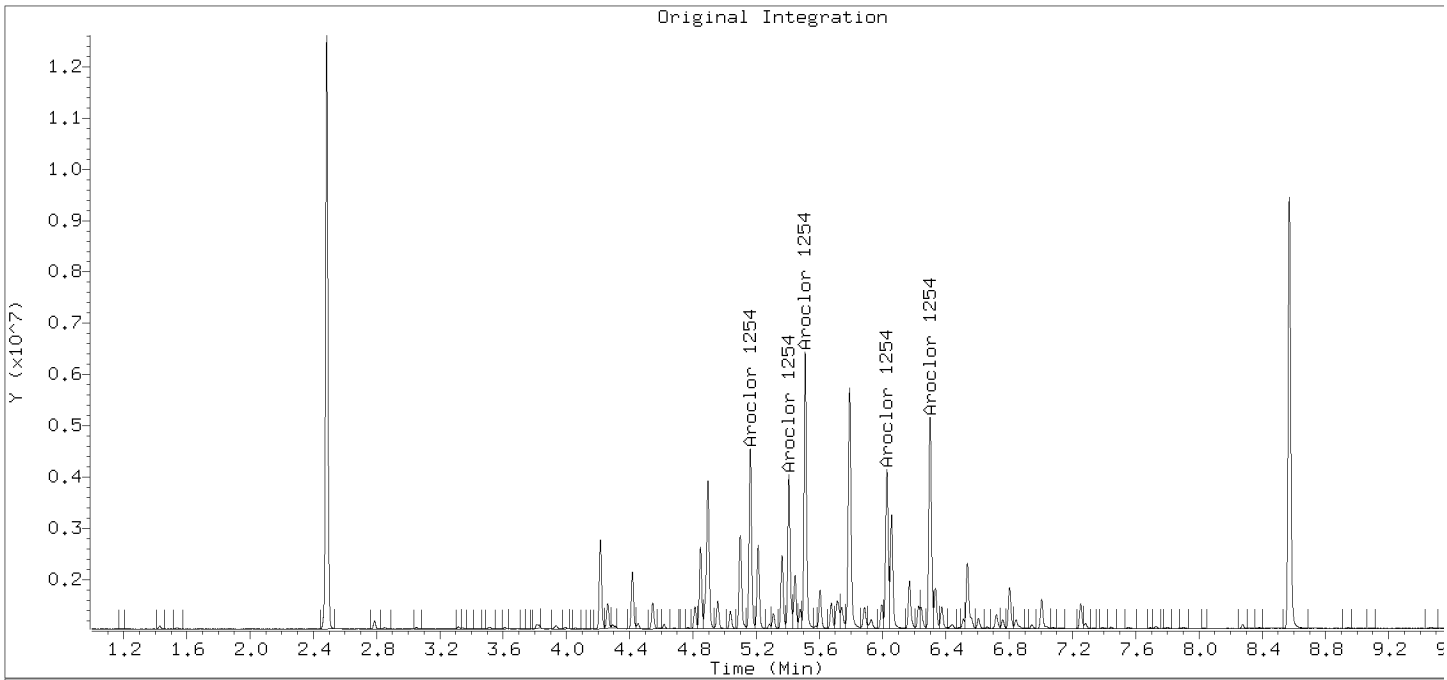
Operator: BLM

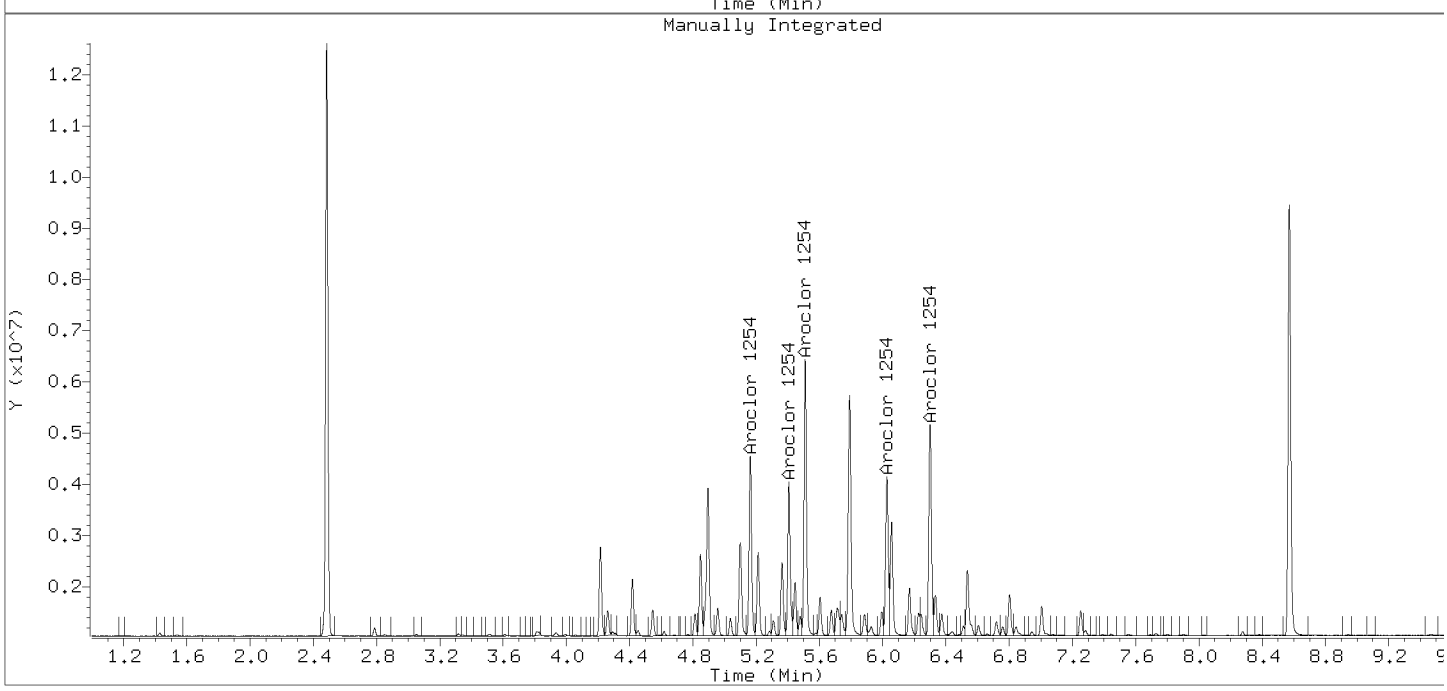
Column phase: ZB-1ms

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

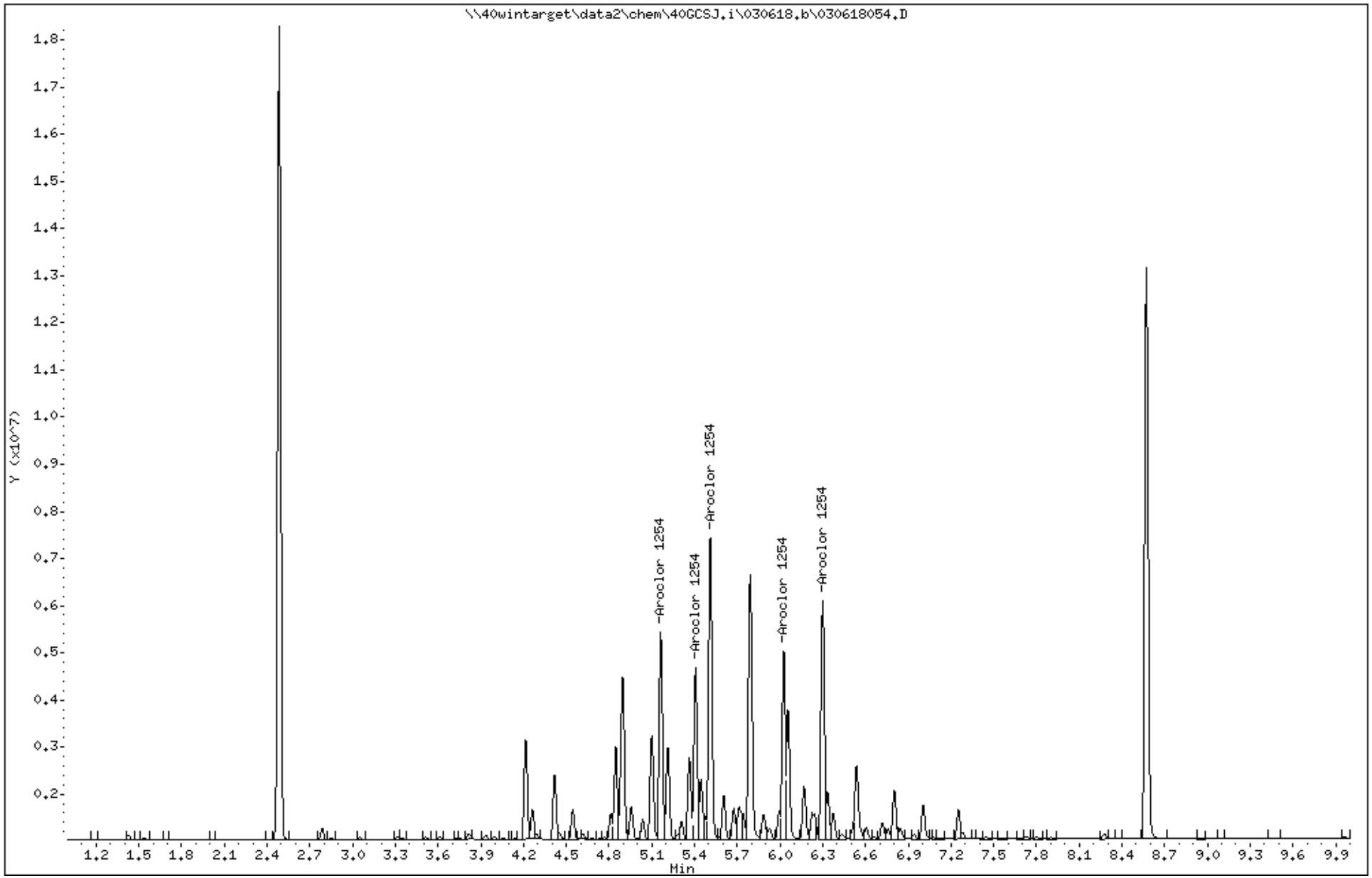
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

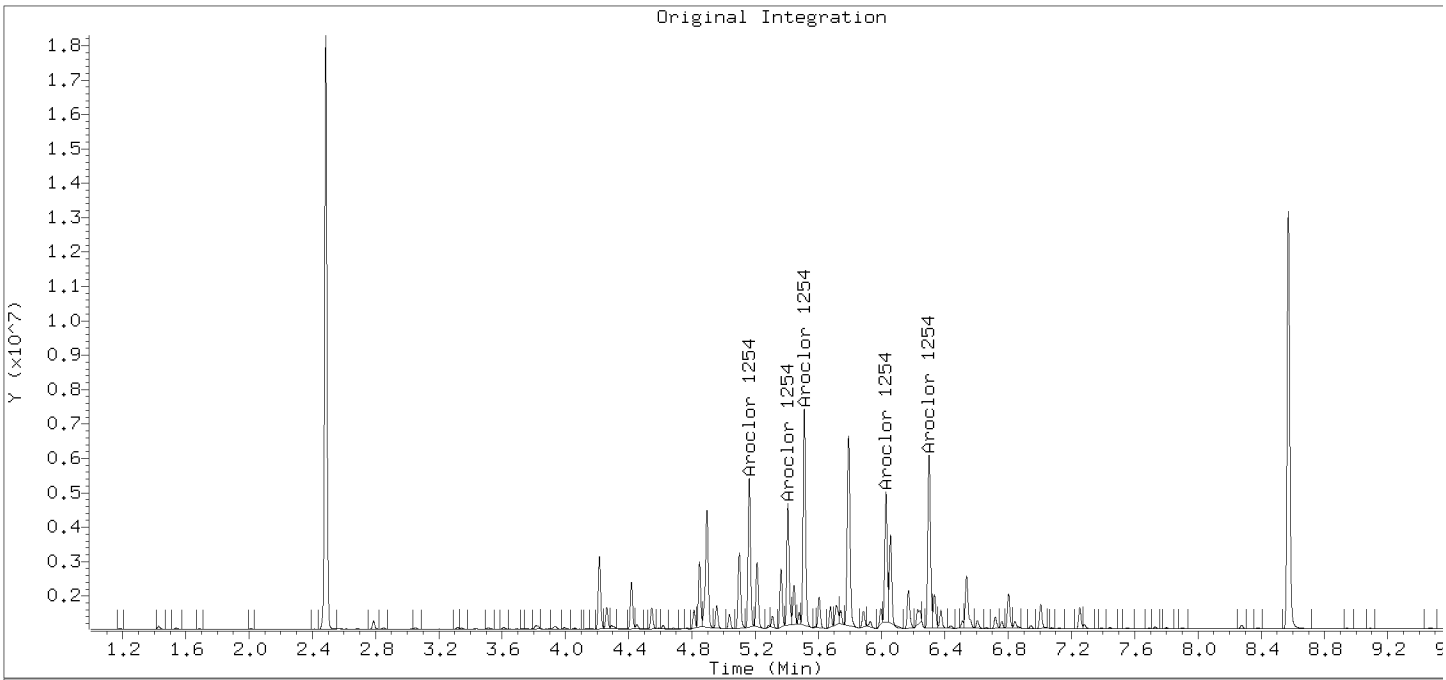
Operator: BLM

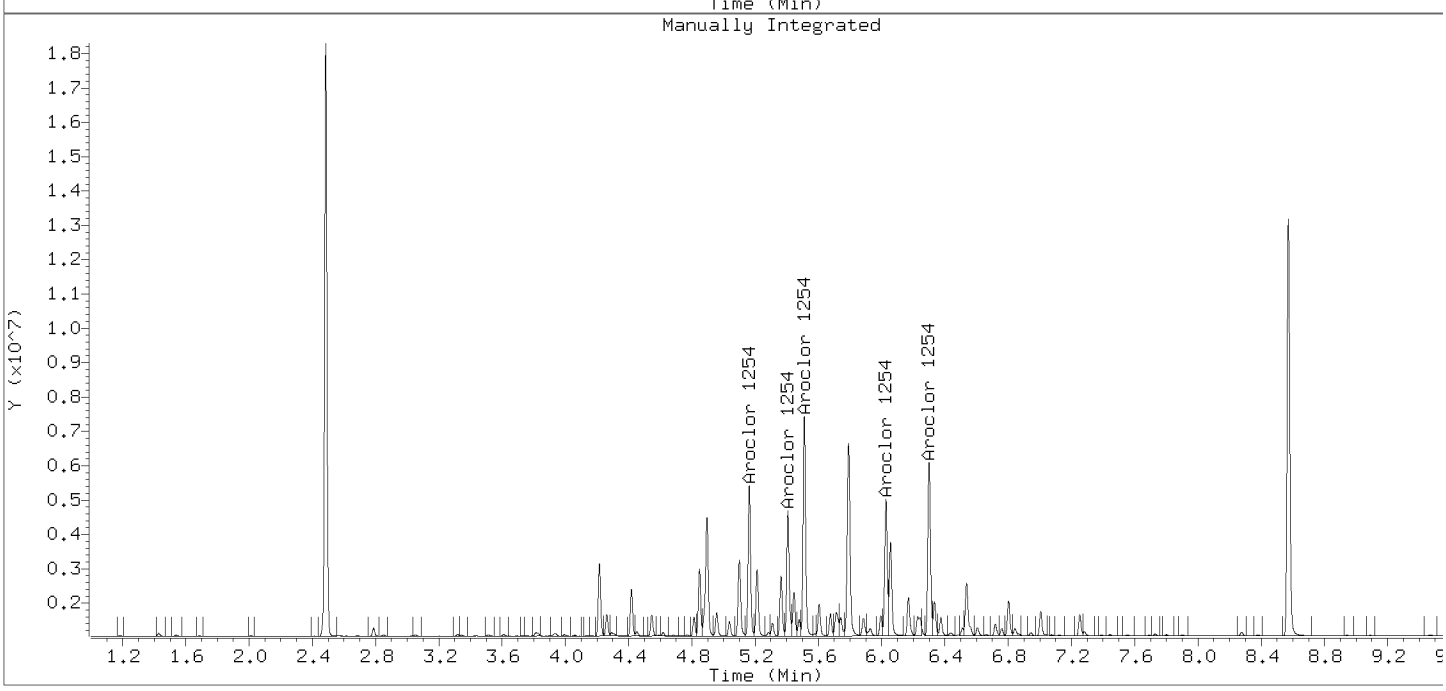
Column phase: ZB-1ms

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

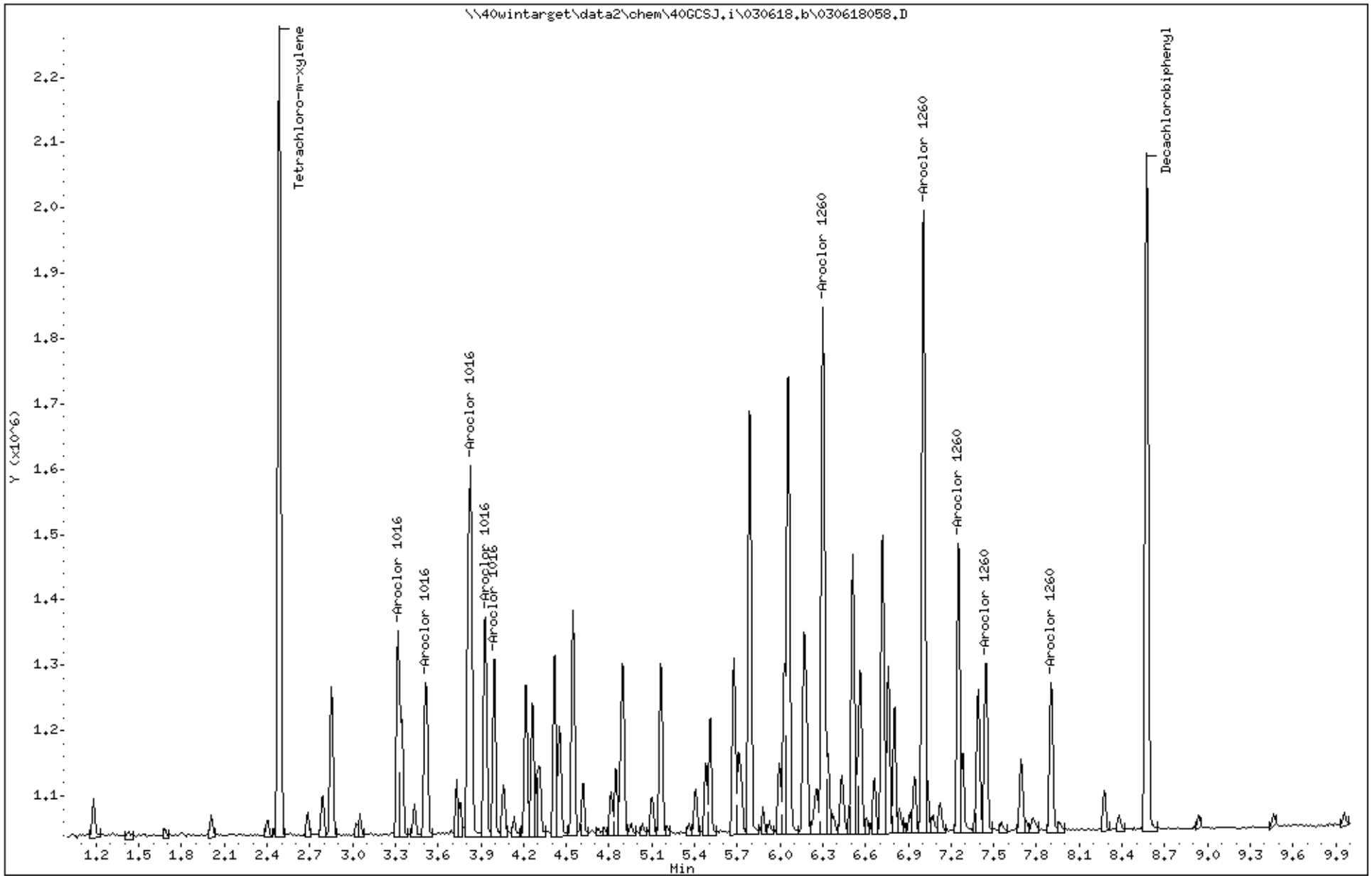
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

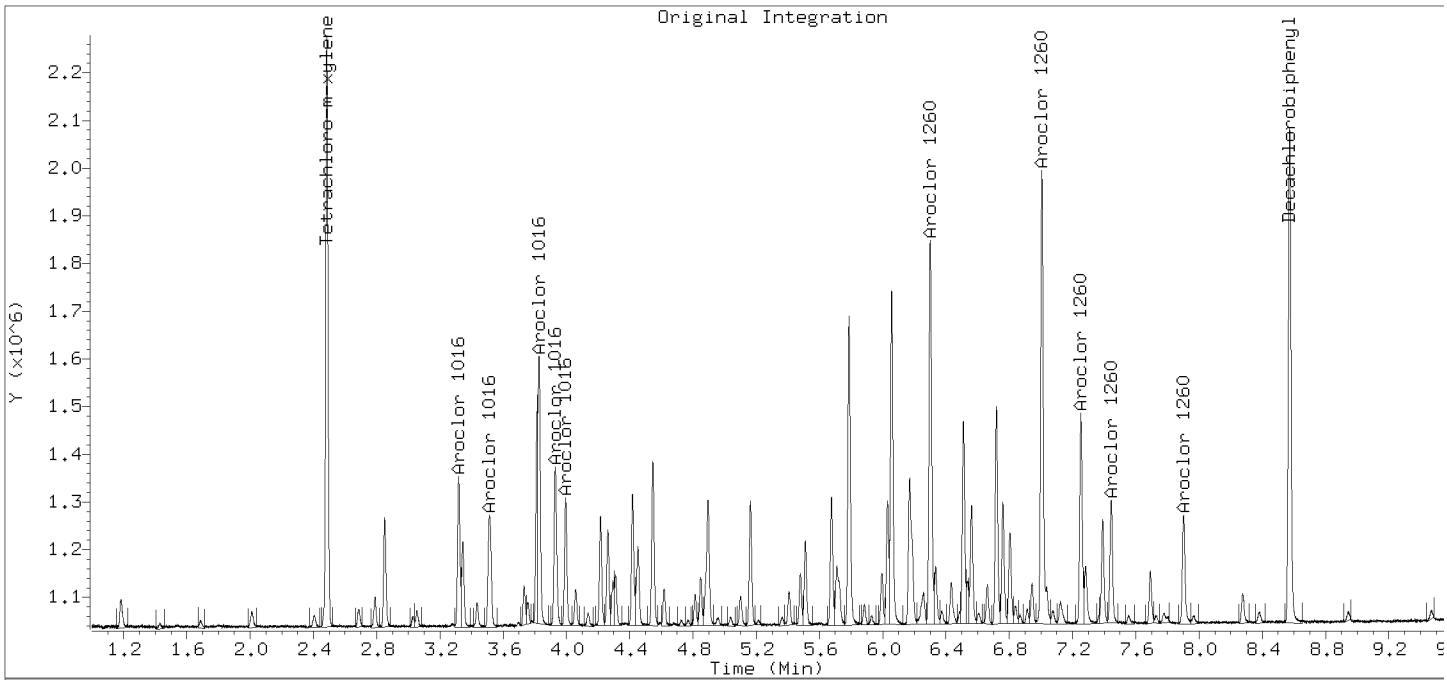
Operator: BLM

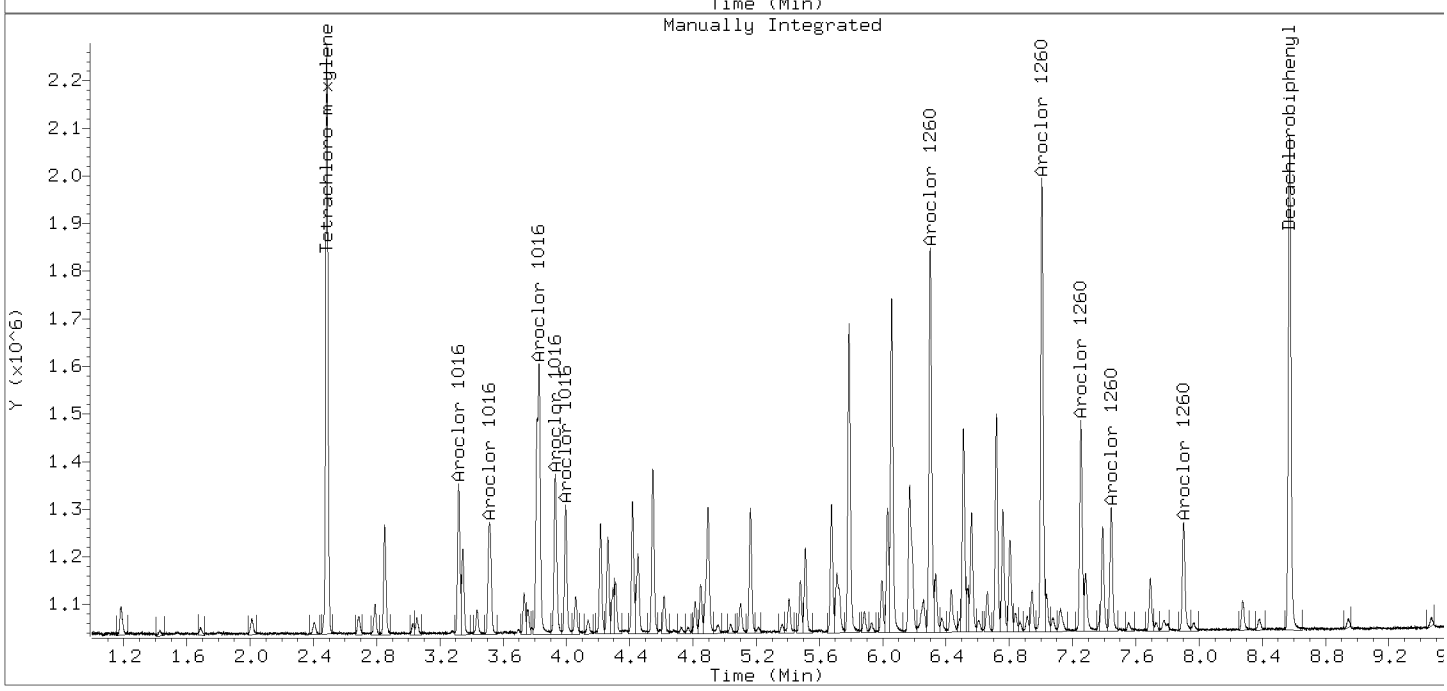
Column phase: ZB-1ms

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

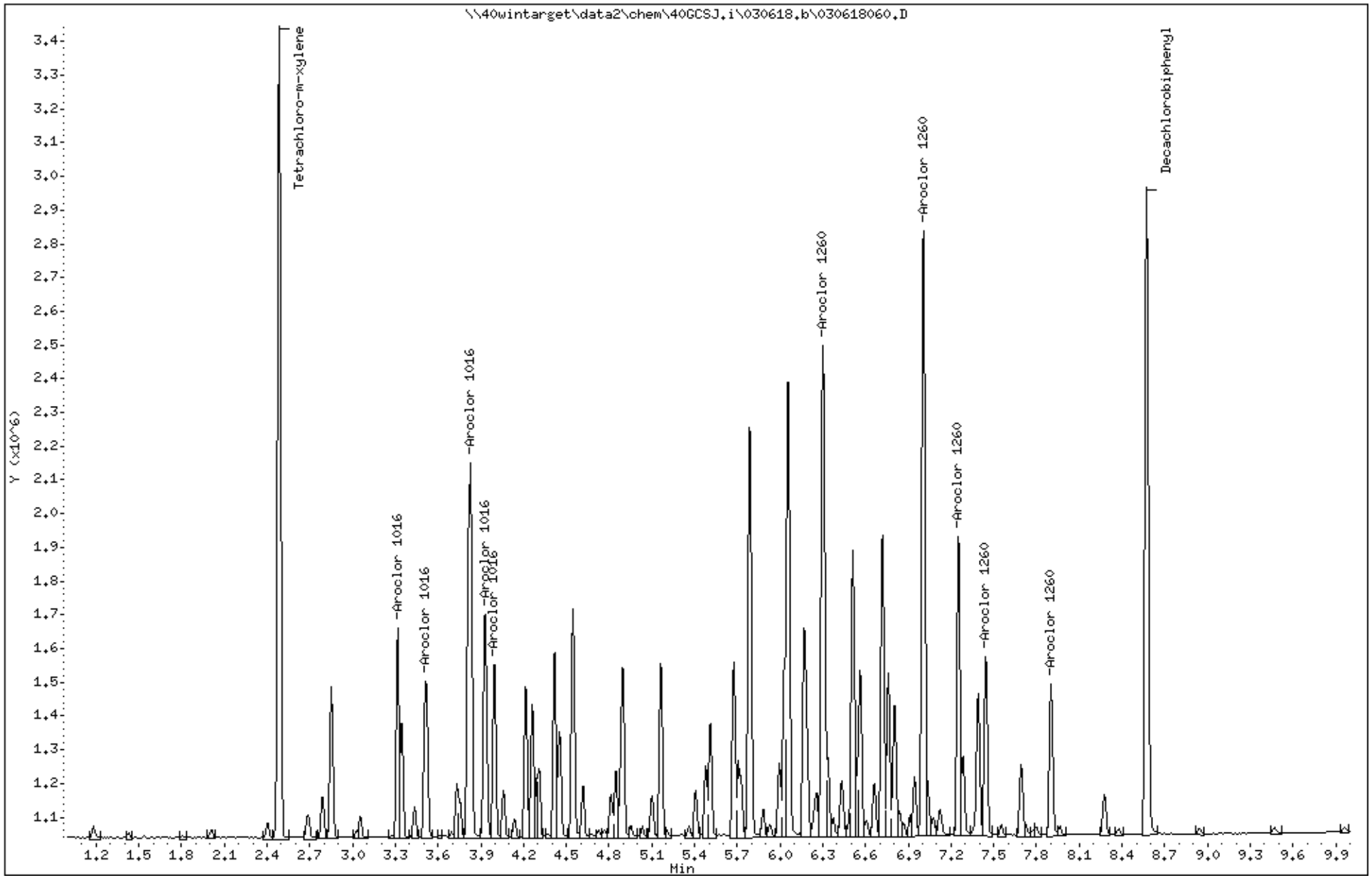
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

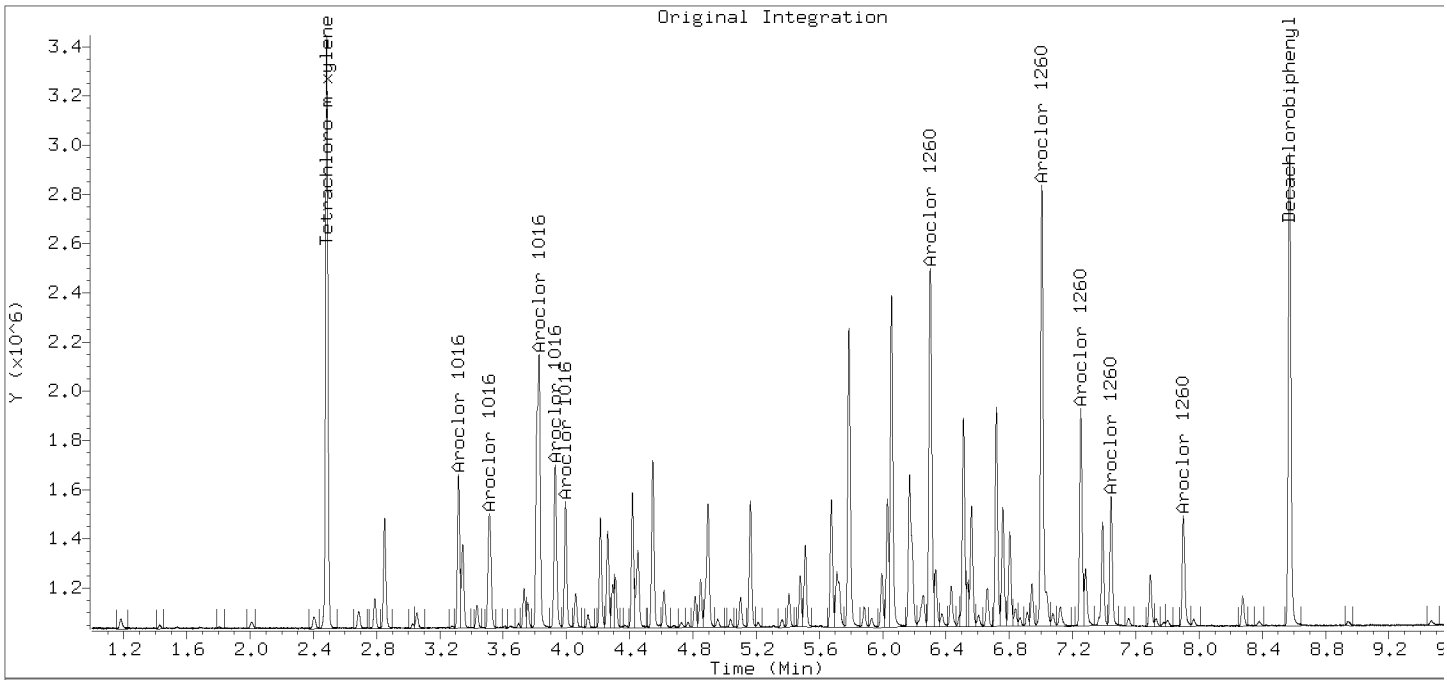
Operator: BLM

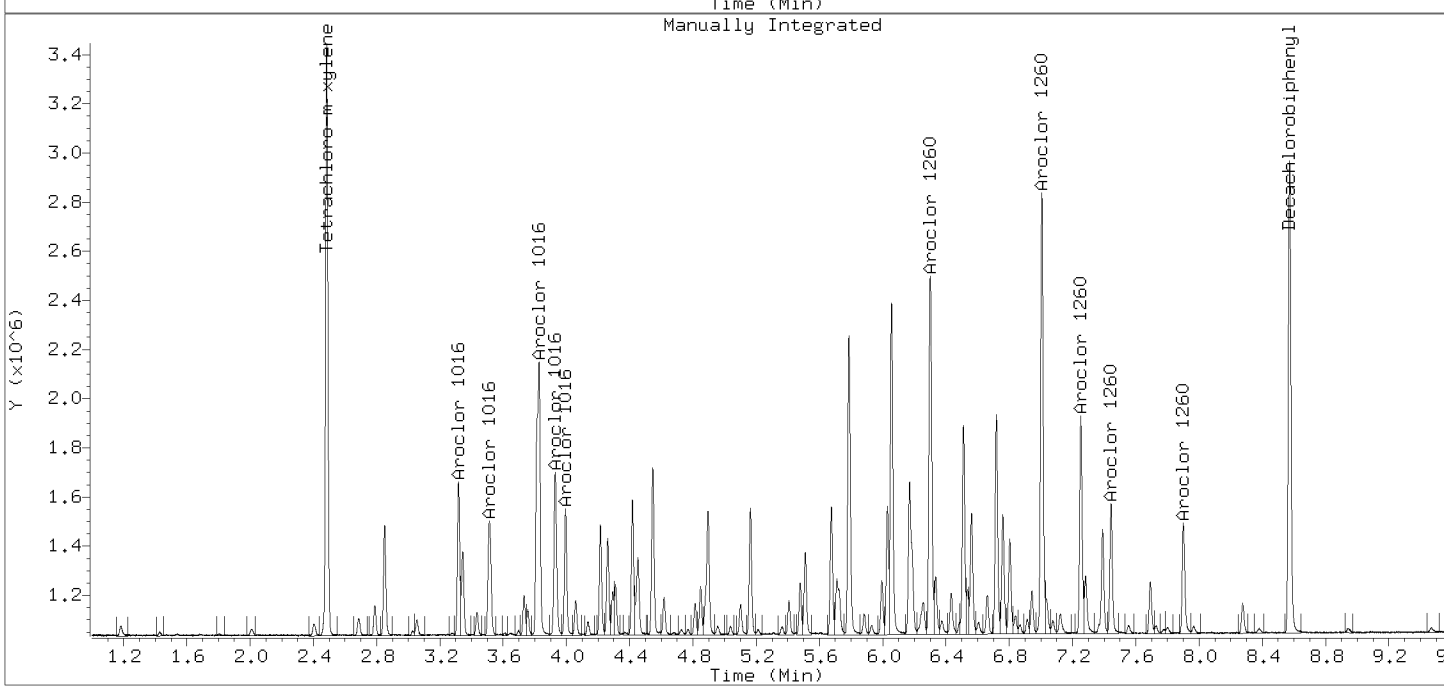
Column phase: ZB-1ms

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.

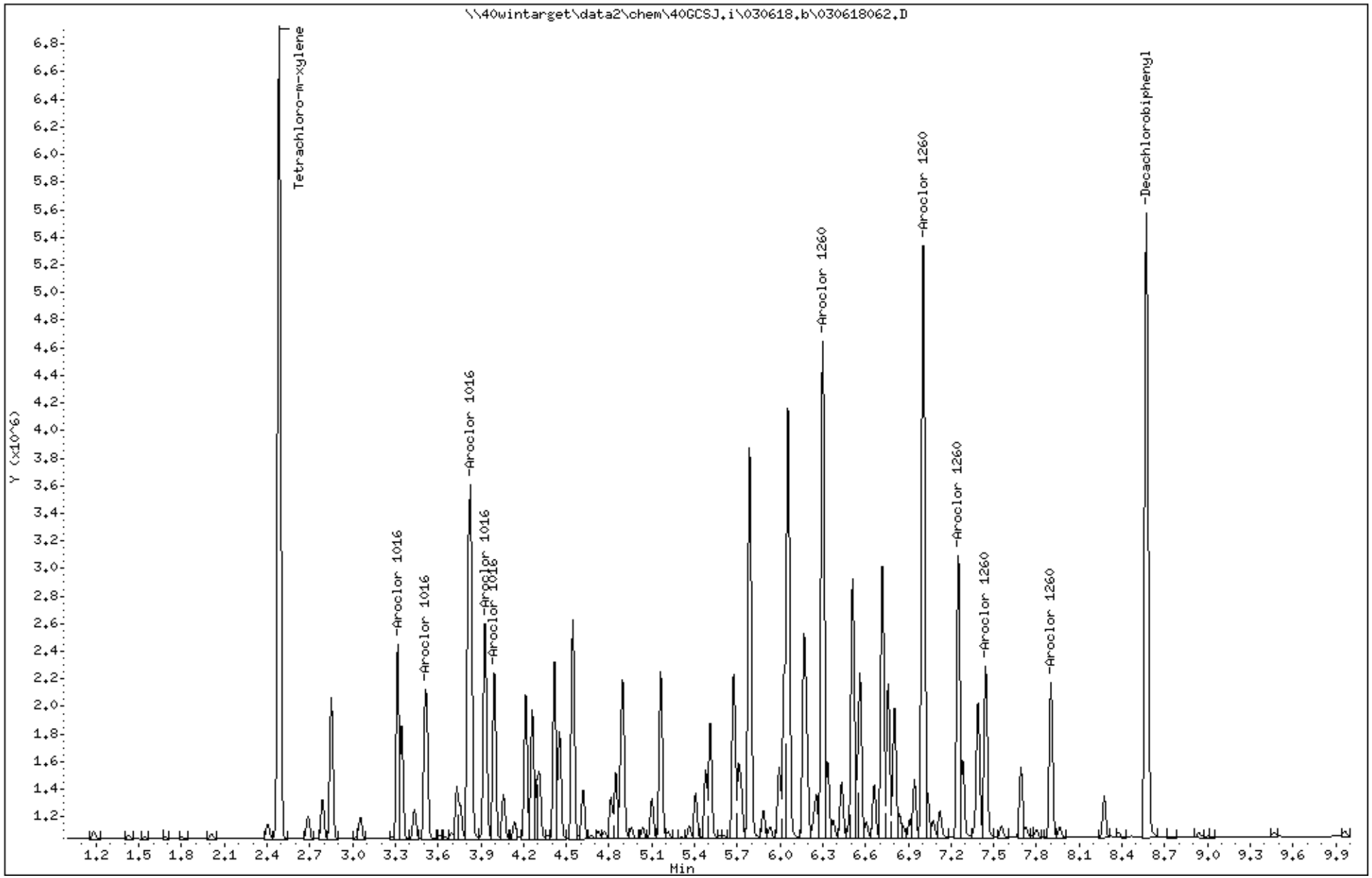
QC Flag Legend

Review Codes Legend

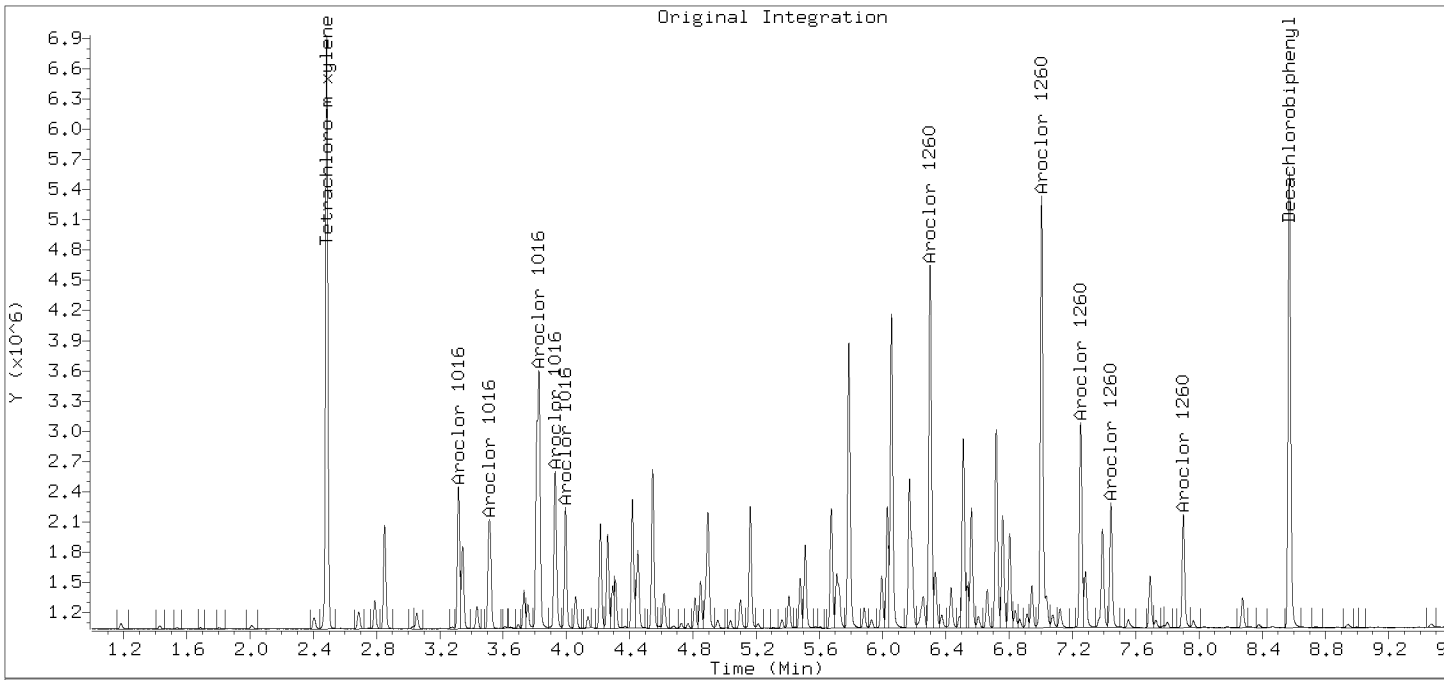
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

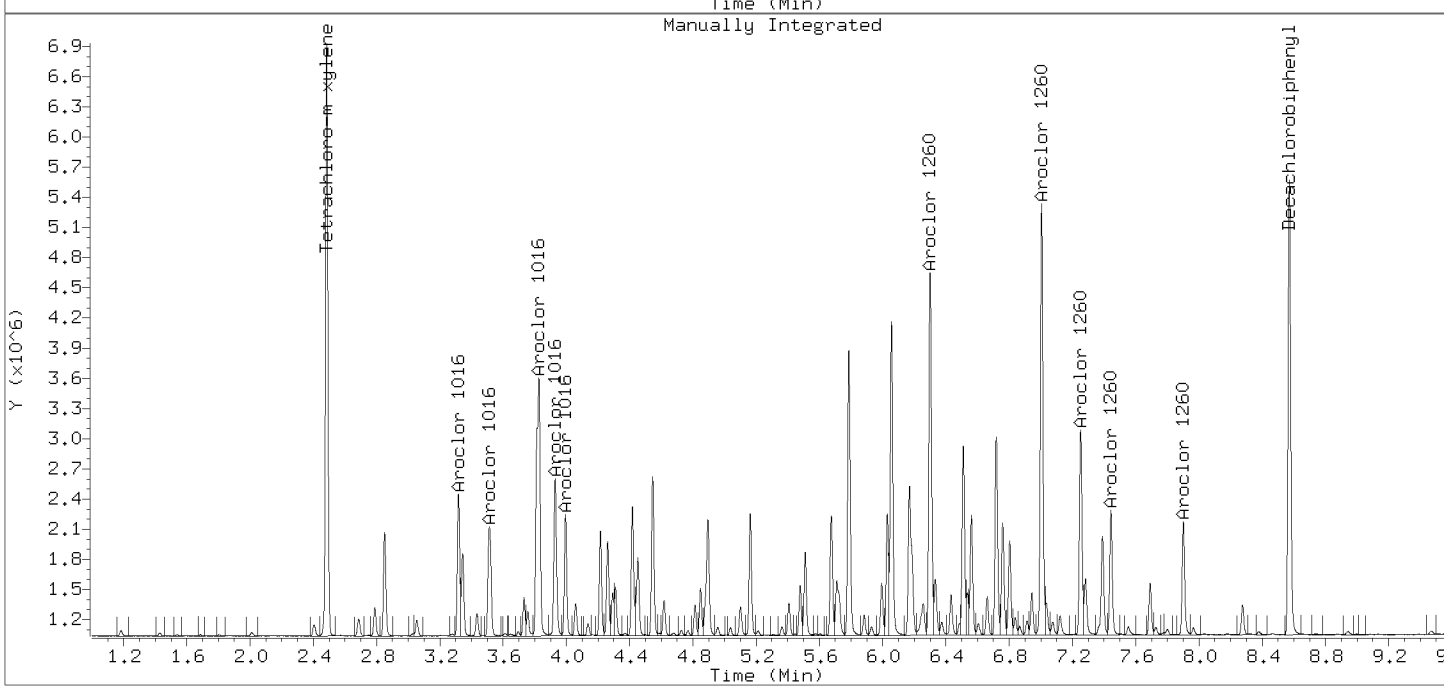
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

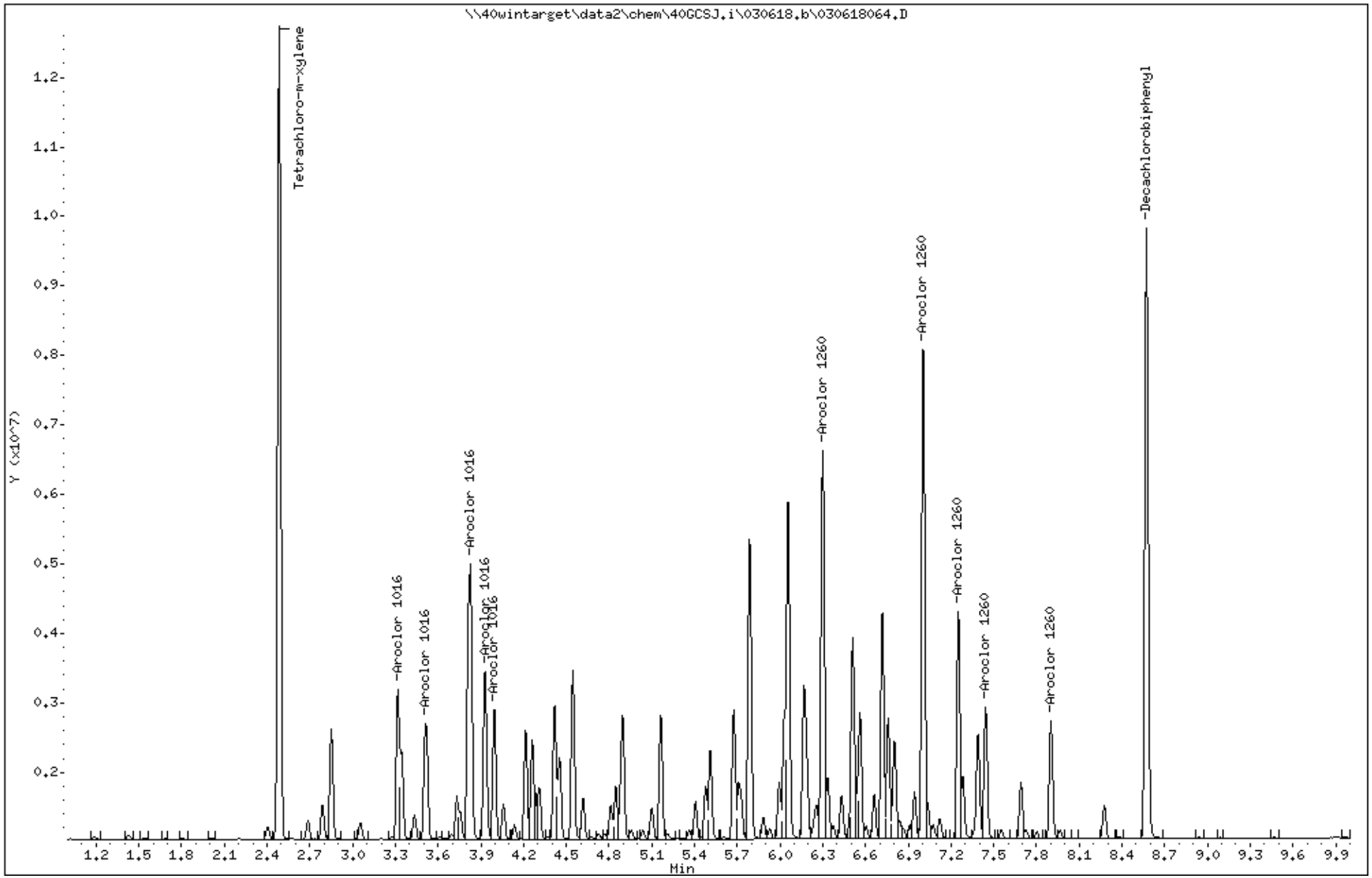
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

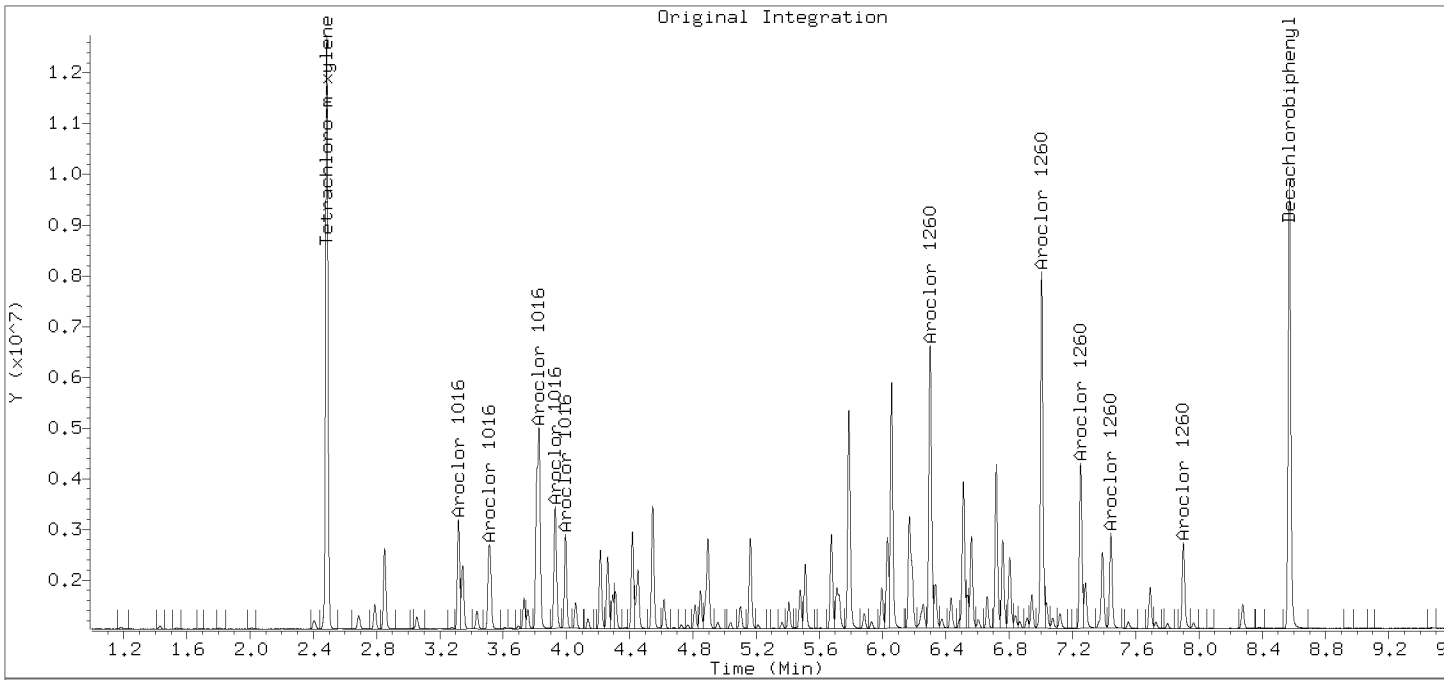
Operator: BLM

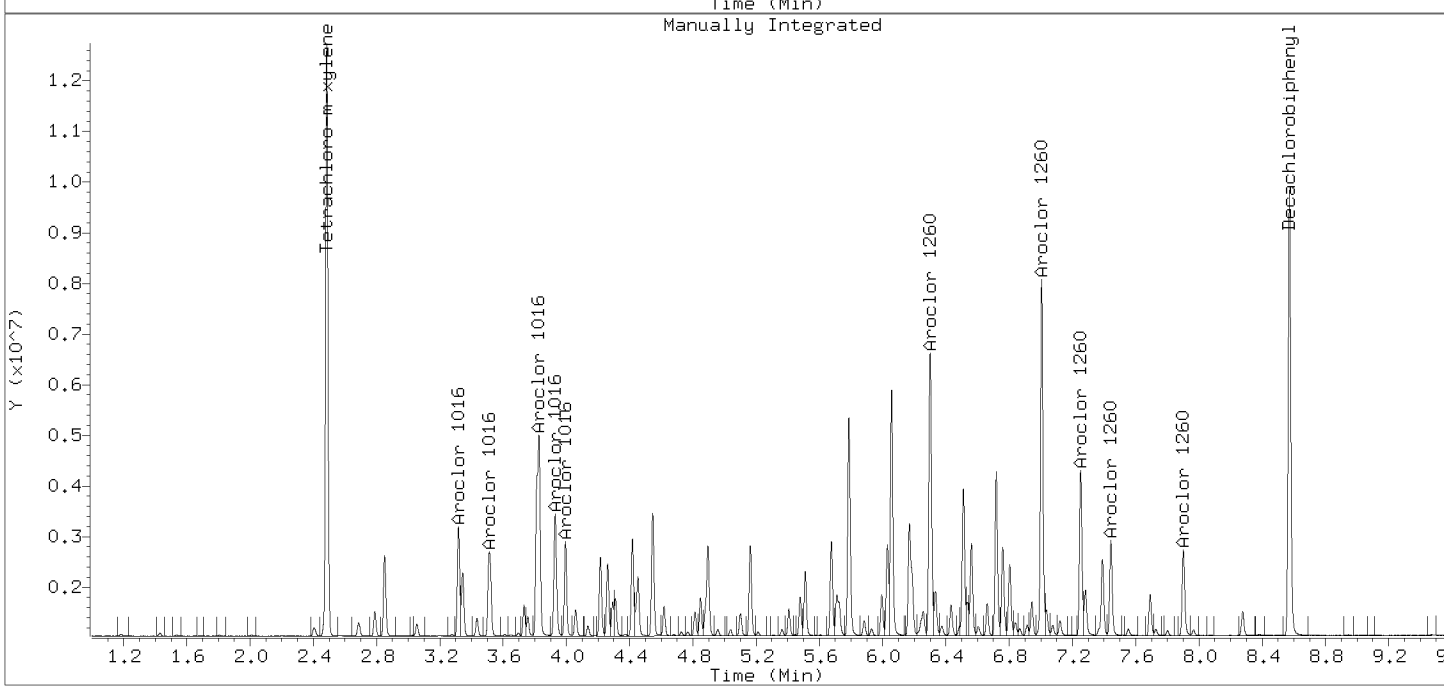
Column phase: ZB-1ms

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	

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

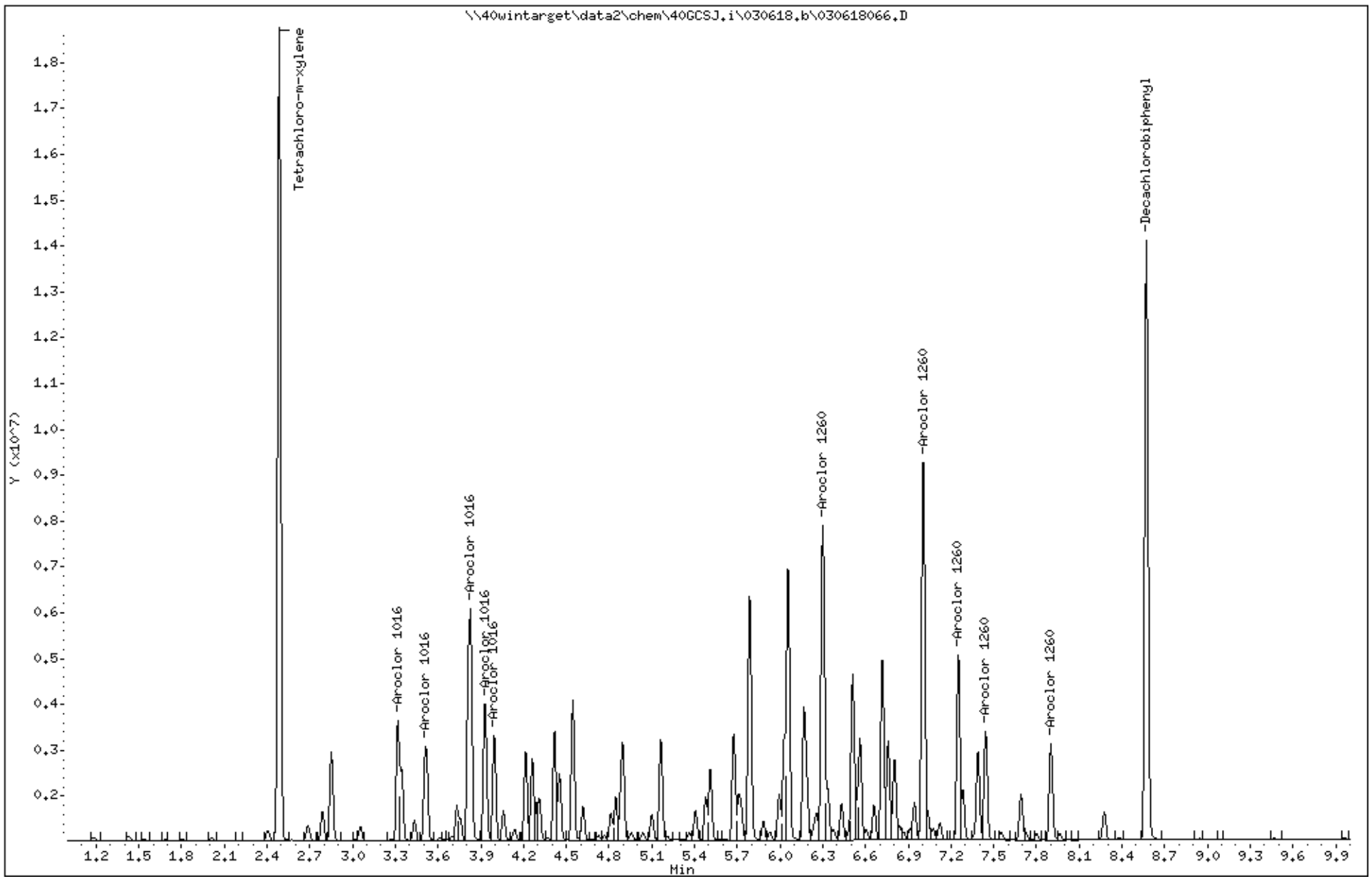
M - Compound response manually integrated.

Review Codes Legend

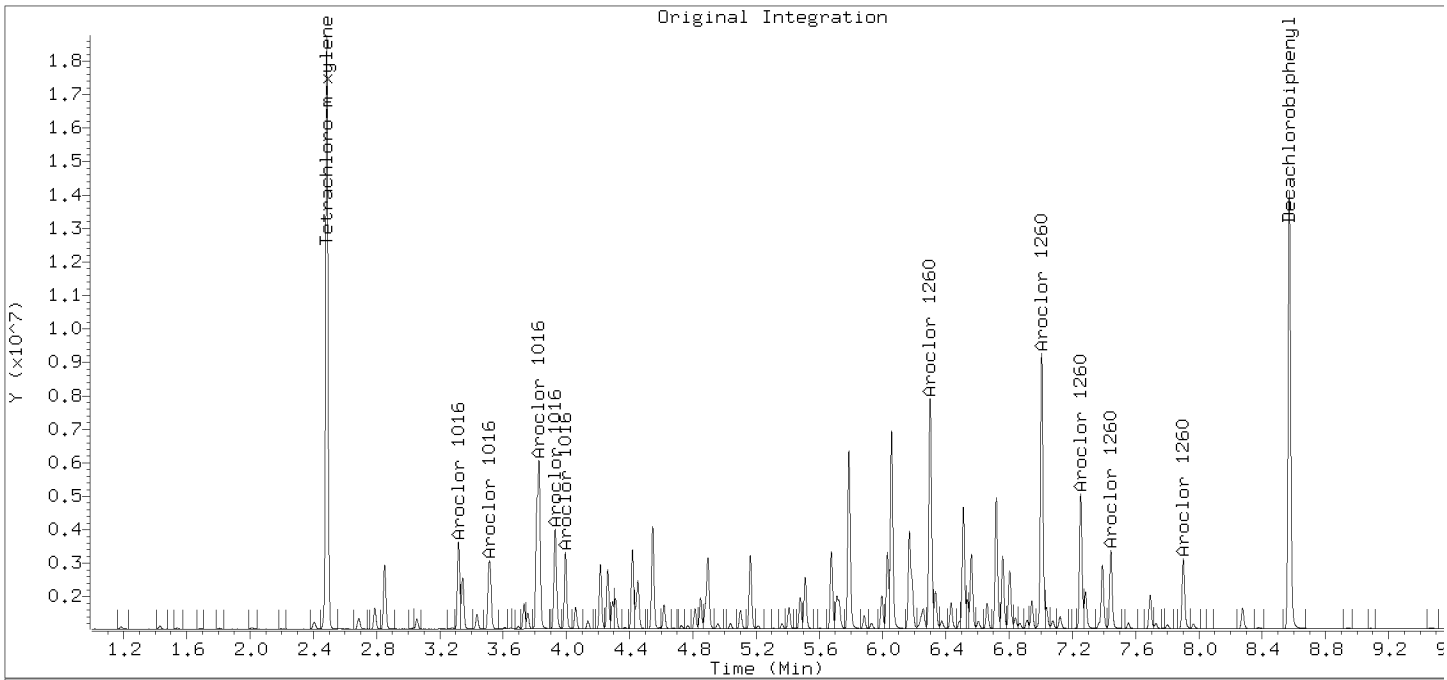
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

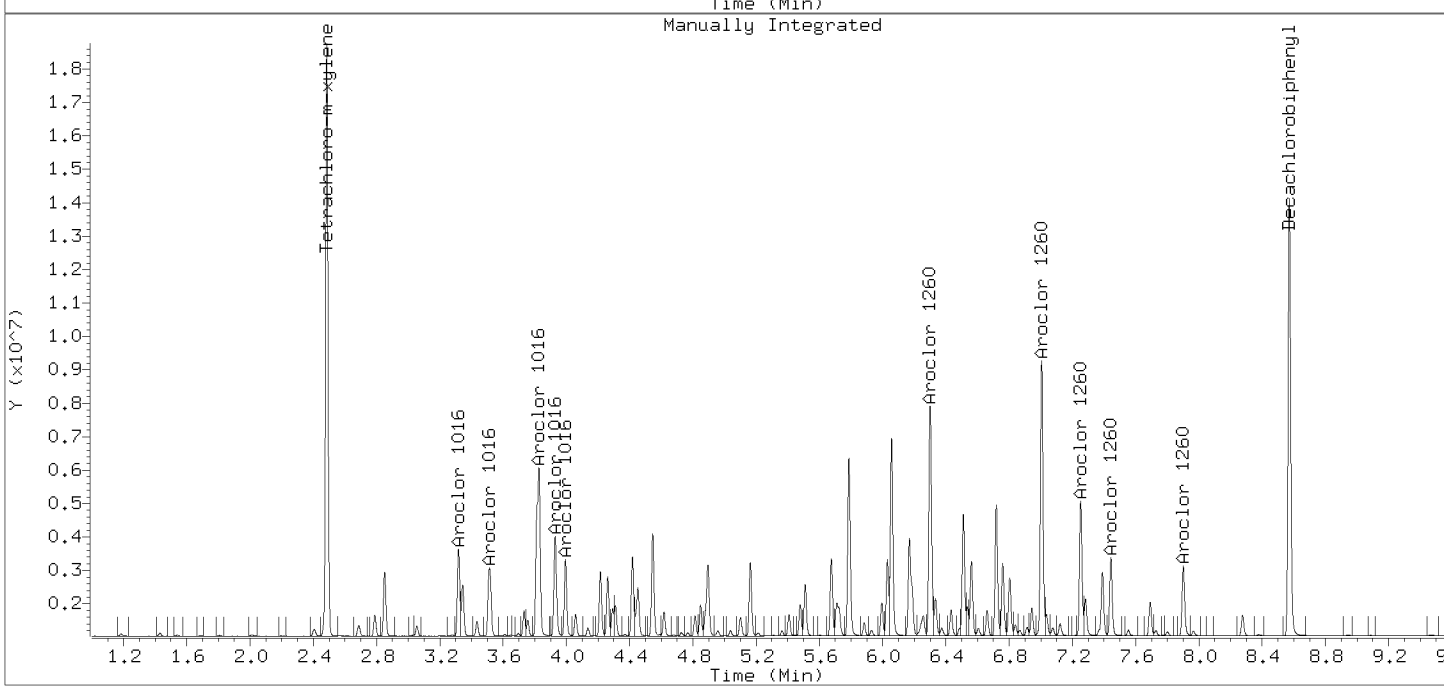
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

Instrument: 40GCSJ.i
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	

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

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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.: 40157488

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.

10858108CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 22:08

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

Lab File ID: 033018.B\033018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	2400608.00	2.4599
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4192600.00	1.0191
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2116228.00	4.2436
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5214738.00	3.5195
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3736722.00	4.1291
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108248000.	-1.1975
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119920640.	-2.7369

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

SAMPLE NO.

10858107CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/31/2018 Time: 01:18

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

Lab File ID: 033018.B\033018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	5440054.00	3.9121
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4533664.00	5.4082
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	8086166.00	4.1218
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5294696.00	8.7277
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6936822.00	6.6038
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113311960.	3.4246
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124423960.	0.9156

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

SAMPLE NO.

10862544CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/31/2018 Time: 04:28

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

Lab File ID: 033018.B\033018052.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	3183922.00	3.3462
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3158442.00	1.9180
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9251614.00	4.3990
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3939236.00	4.2064
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2674784.00	2.7440
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9391290.00	5.9684
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10730744.0	7.1534
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5261122.00	10.0698
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3056778.00	4.8598
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2847404.00	7.9079
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	115973180.	5.8536
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124398320.	0.8948

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

SAMPLE NO.

10868270CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 15:12

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

Lab File ID: 040218.B\040218004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2651620.00	6.0638
Aroclor 1232	2	Averaged	3.514	3.479	3.547	1339782.00	1416674.00	5.7391
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3905832.00	4.1631
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1681896.00	4.6937
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1098048.00	0.5653
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106713780.	-2.5979
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	121875740.	-1.1512

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

SAMPLE NO.

10868271CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 18:23

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

Lab File ID: 040218.B\040218016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	2693620.00	6.3328
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2664902.00	5.7487
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7623904.00	7.1306
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3270266.00	7.5203
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2165354.00	5.7432
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113468160.	3.5672
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	126030000.	2.2182

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

SAMPLE NO.

10868272CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 21:33

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

Lab File ID: 040218.B\040218028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	2396194.00	2.2715
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4183040.00	0.7887
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2062324.00	1.5883
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5219028.00	3.6047
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3682400.00	2.6154
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	109549140.	-0.0099
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	119183460.	-3.3348

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

SAMPLE NO.

10868273CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 23:08

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

Lab File ID: 040218.B\040218034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	5414750.00	3.4287
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4486800.00	4.3186
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	8062266.00	3.8141
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5110414.00	4.9435
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6817084.00	4.7637
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112833400.	2.9878
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123445100.	0.1217

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

SAMPLE NO.

10860058CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/05/2018 Time: 14:07

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

Lab File ID: 040518.B\040518004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	2399018.00	2.3920
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4130584.00	-0.4752
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	1943748.00	-4.2526
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	4977884.00	-1.1824
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3408276.00	-5.0235
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106355840.	-2.9246
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121675920.	-1.3133

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

SAMPLE NO.

10860057CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/05/2018 Time: 17:18

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

Lab File ID: 040518.B\040518016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	5360540.00	2.3932
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4417658.00	2.7110
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7966952.00	2.5867
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4910110.00	0.8302
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	6650844.00	2.2090
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111142300.	1.4442
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124666640.	1.1124

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

SAMPLE NO.

10883263CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 14:32

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

Lab File ID: 041118.B\041118004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.318	3.284	3.352	3080830.60	3322482.00	7.8437
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3324720.00	7.2836
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9525296.00	7.4873
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	4059162.00	7.3789
Aroclor 1016	5	Averaged	3.995	3.96	4.028	2603349.30	2727816.00	4.7810
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	9578748.00	8.0836
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	10891814.0	8.7618
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	5227694.00	9.3705
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3175498.00	8.9323
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2876768.00	9.0207
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	120044140.	9.5693
Tetrachloro-m-xylene		Averaged	2.486	2.45	2.518	123295106.	131535220.	6.6832

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

SAMPLE NO.

10883259CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 17:42

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

Lab File ID: 041118.B\041118016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157488

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	1045244.00	0.3829
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	542802.000	-0.9201
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1453902.00	5.1011
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1116546.00	0.9746
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3437198.00	5.5846
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	111926100.	2.1596
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123101260.	-0.1572

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

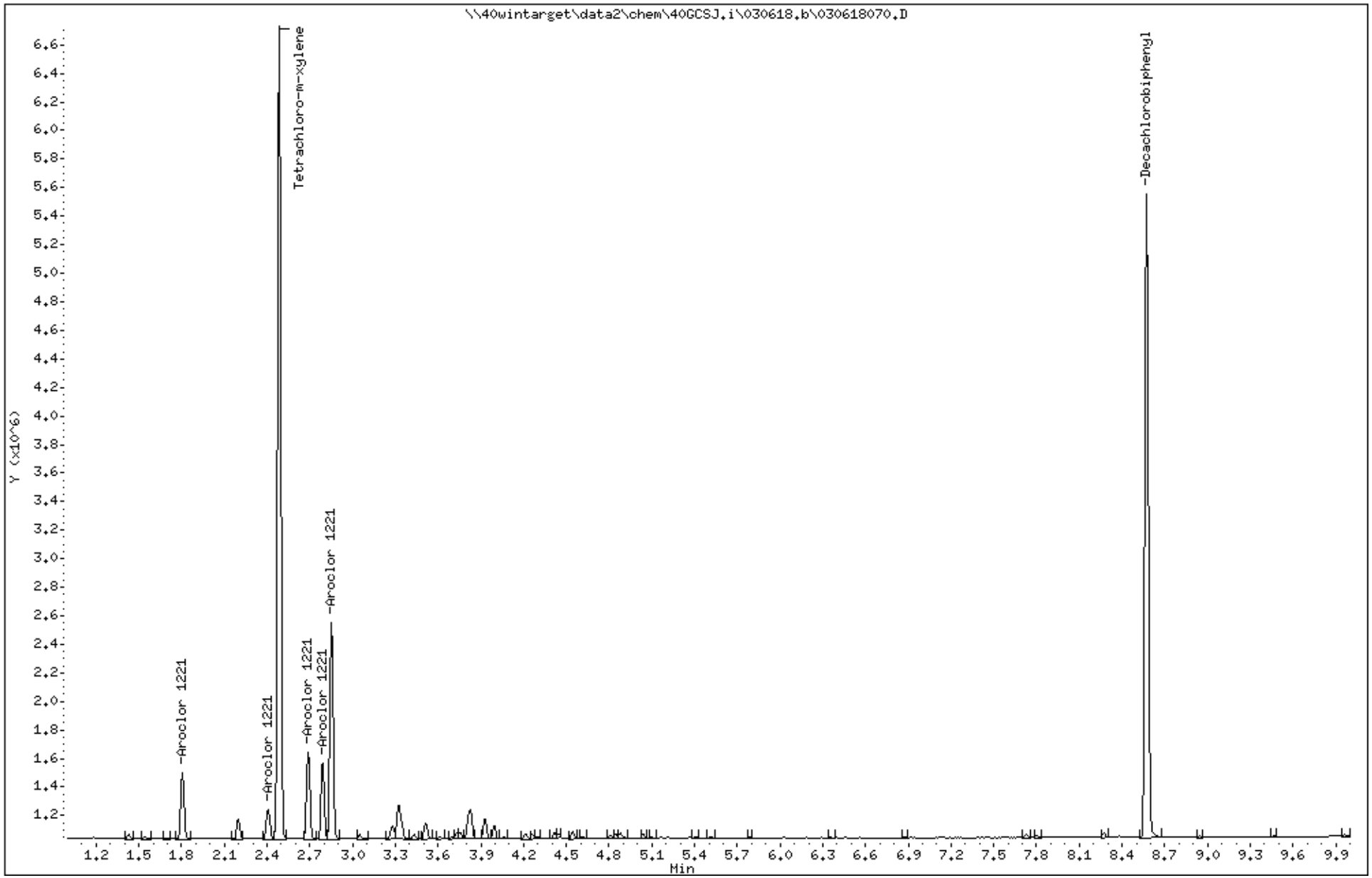
M - Compound response manually integrated.

Review Codes Legend

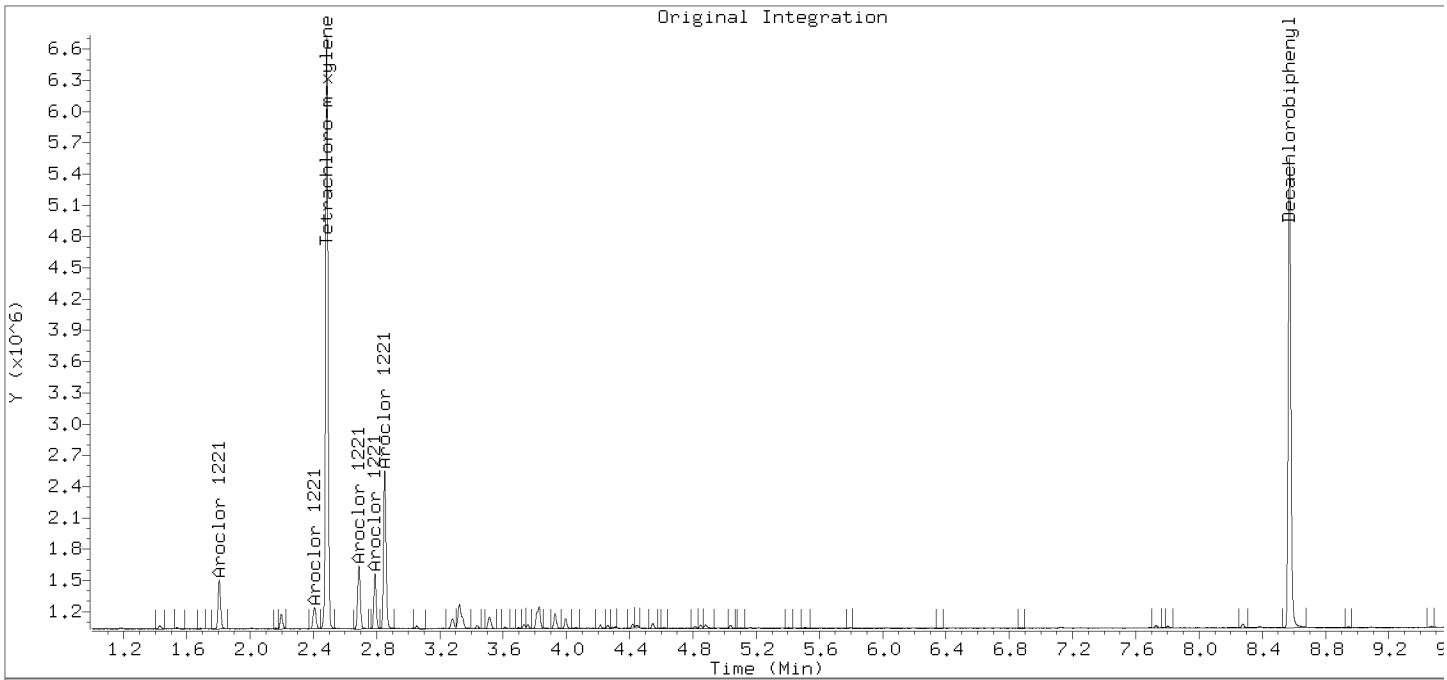
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

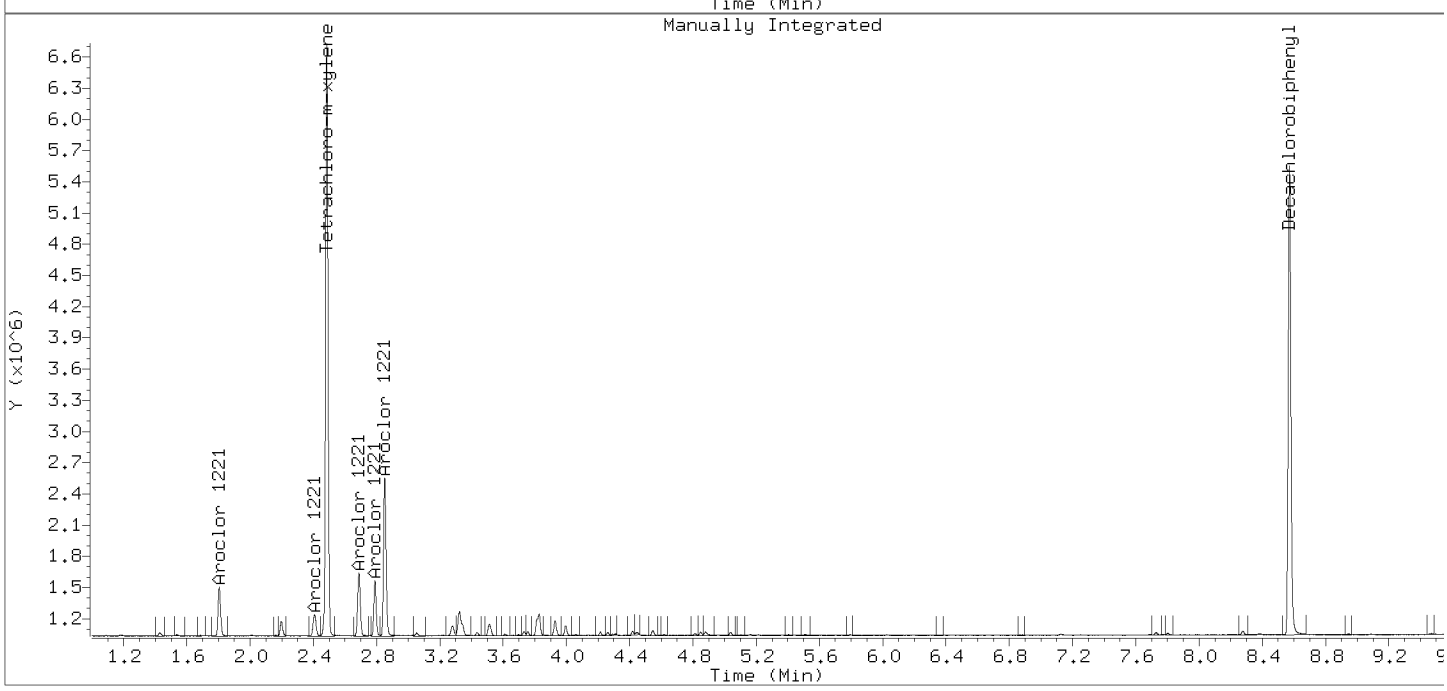
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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	

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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

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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

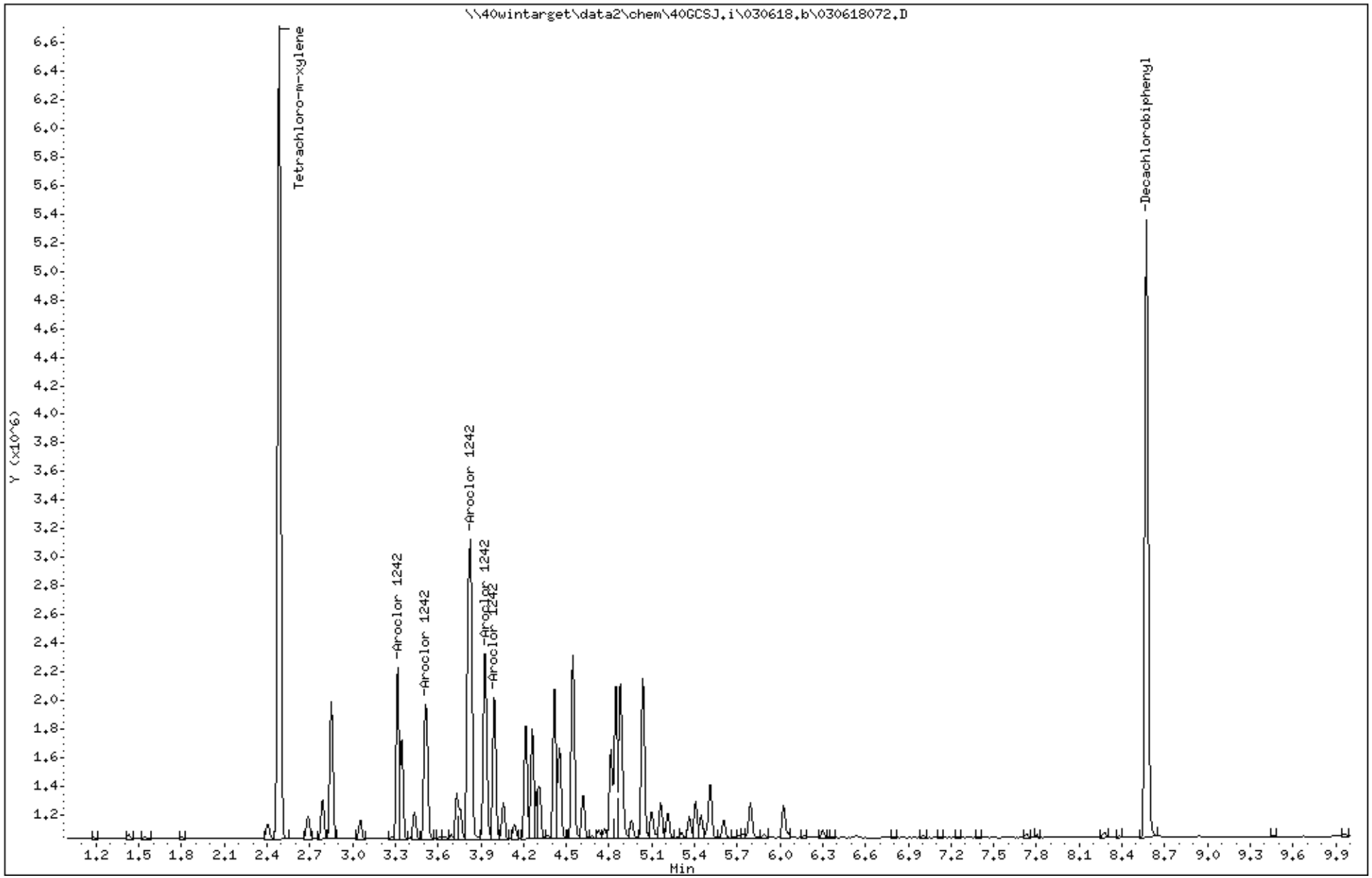
M - Compound response manually integrated.

Review Codes Legend

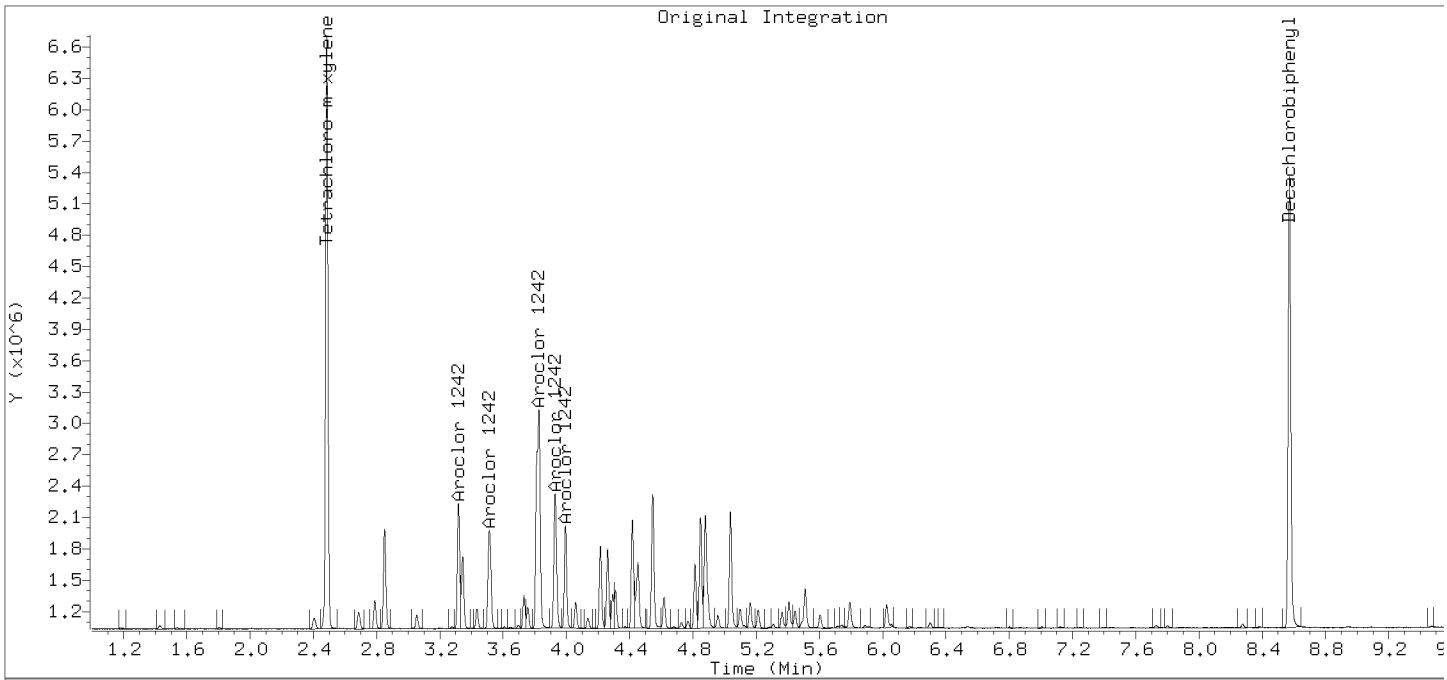
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

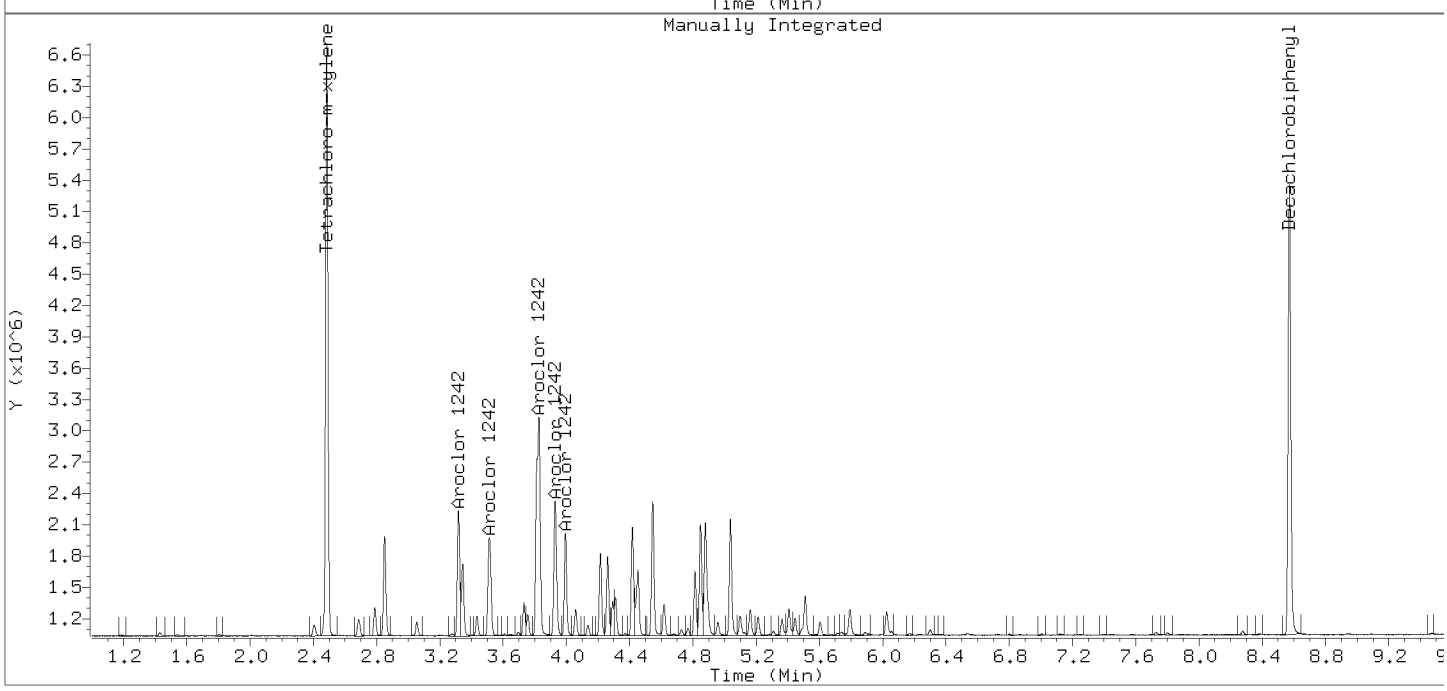
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i
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

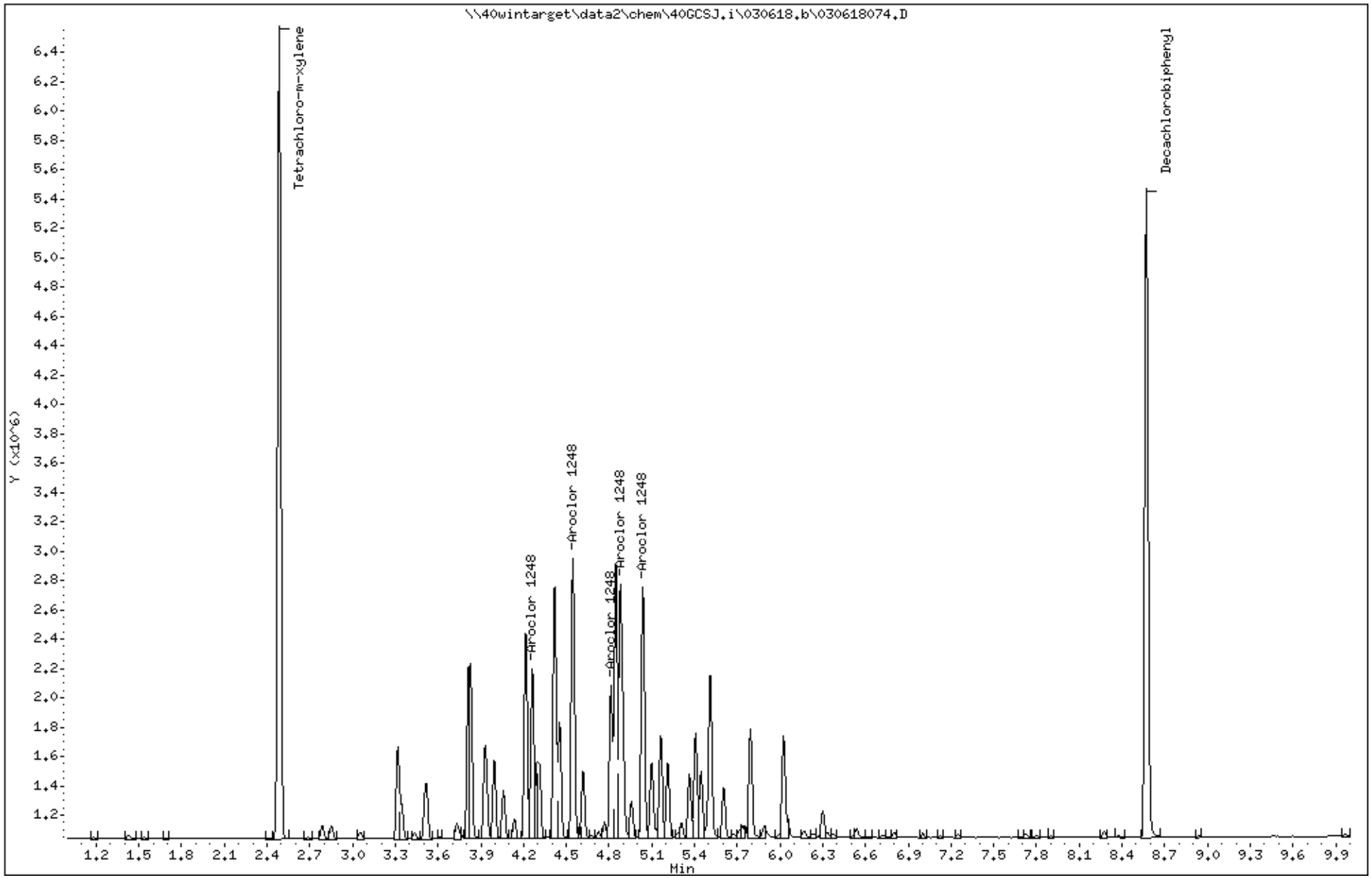
M - Compound response manually integrated.

Review Codes Legend

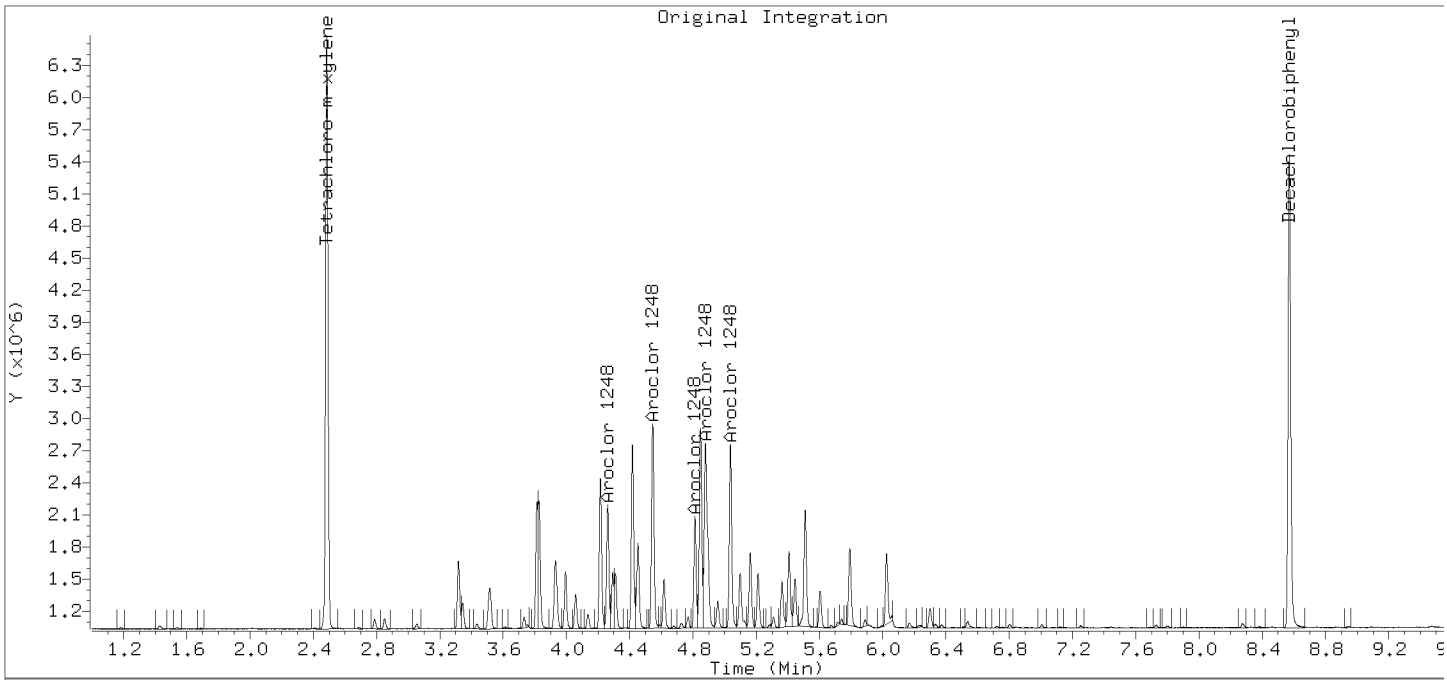
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

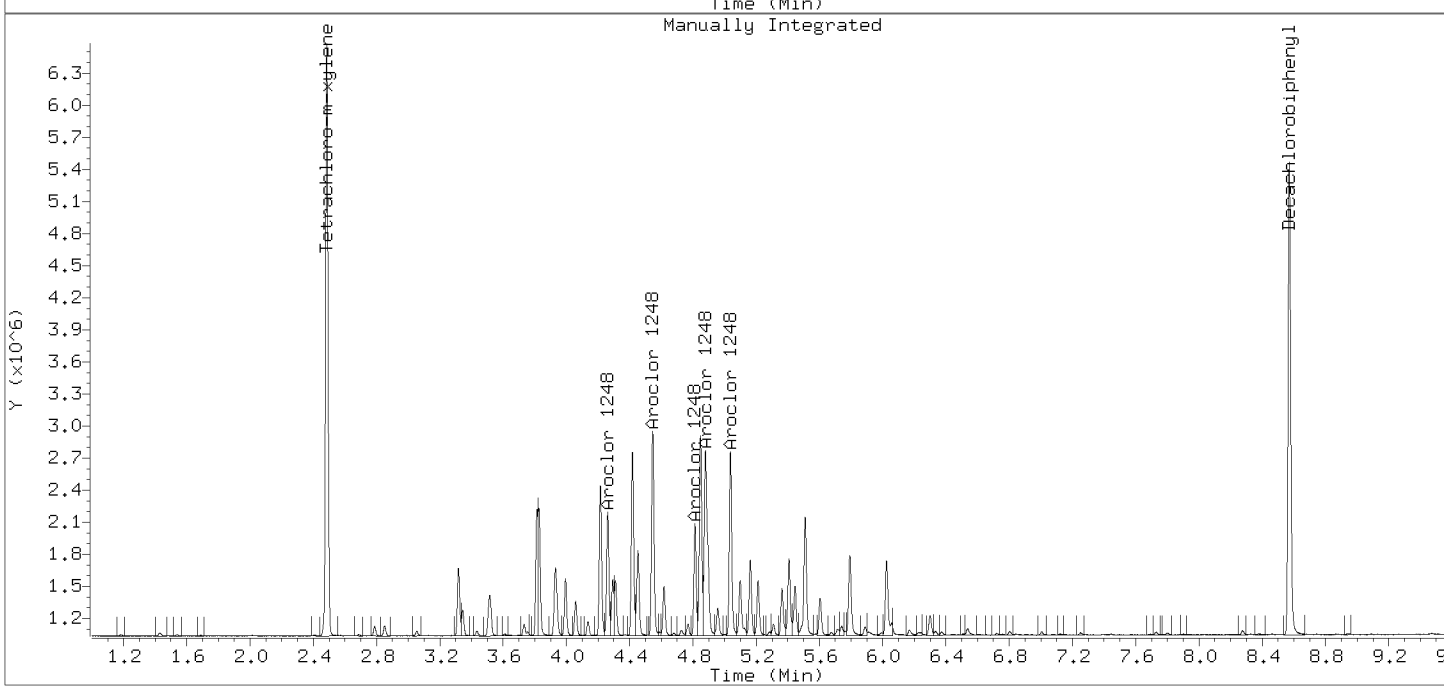
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

Instrument: 40GCSJ.i
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

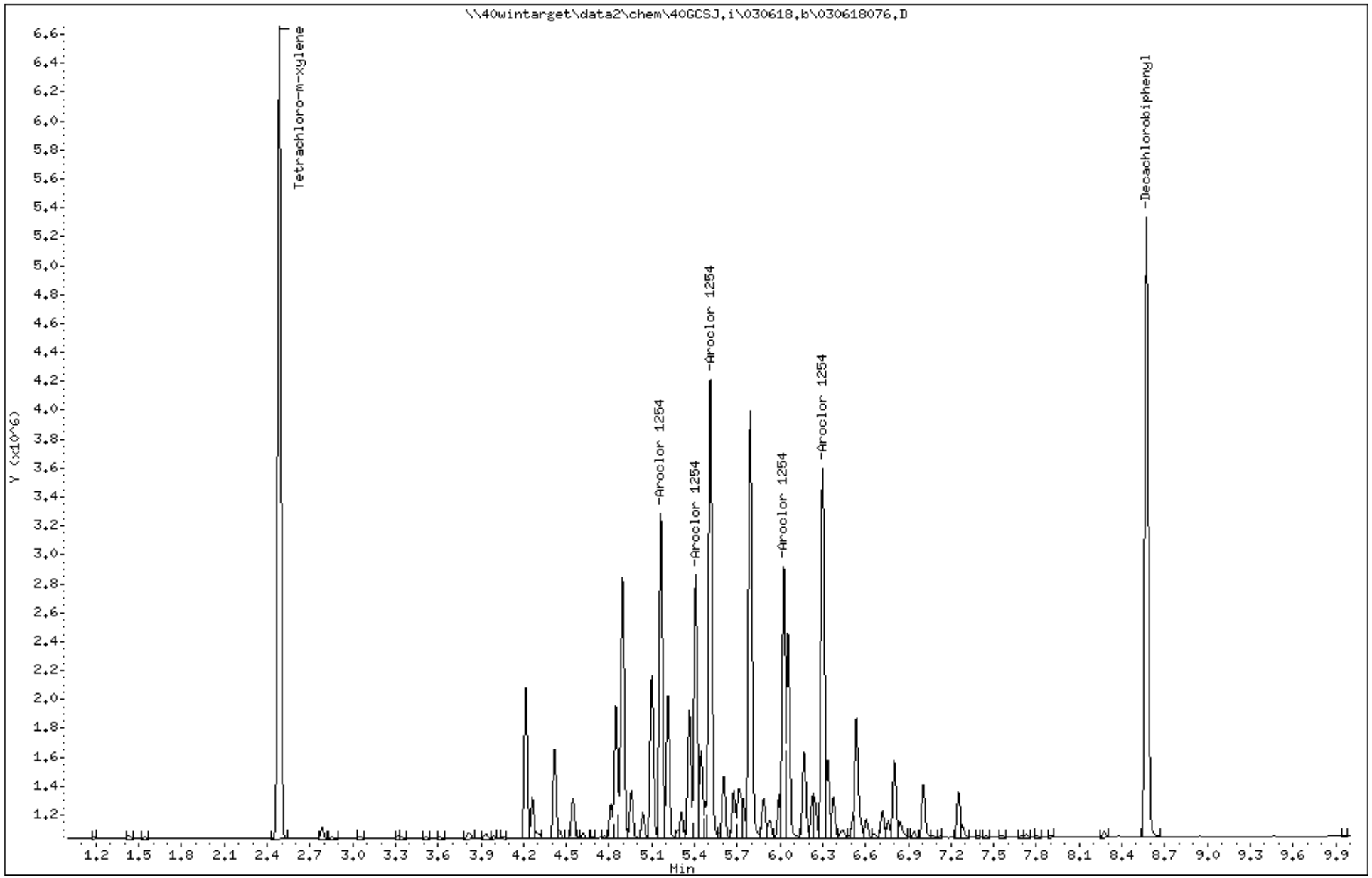
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

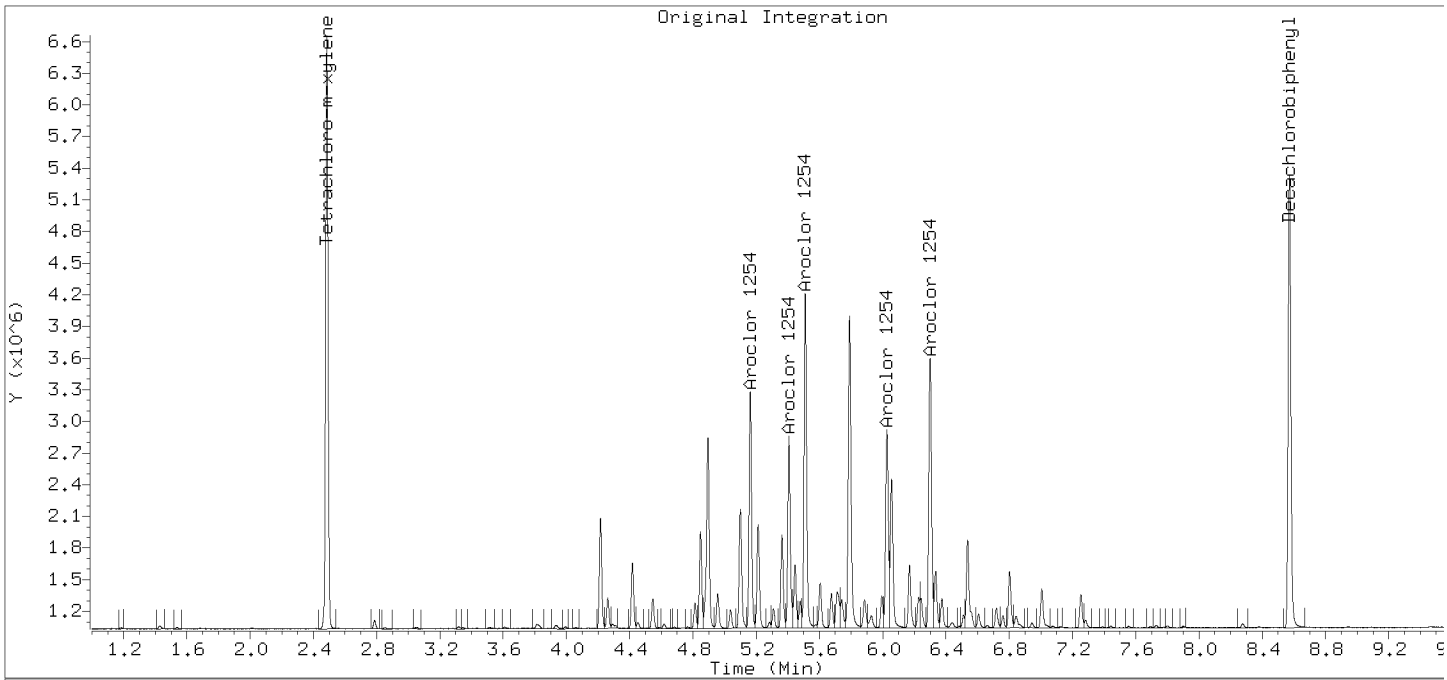
Operator: BLM

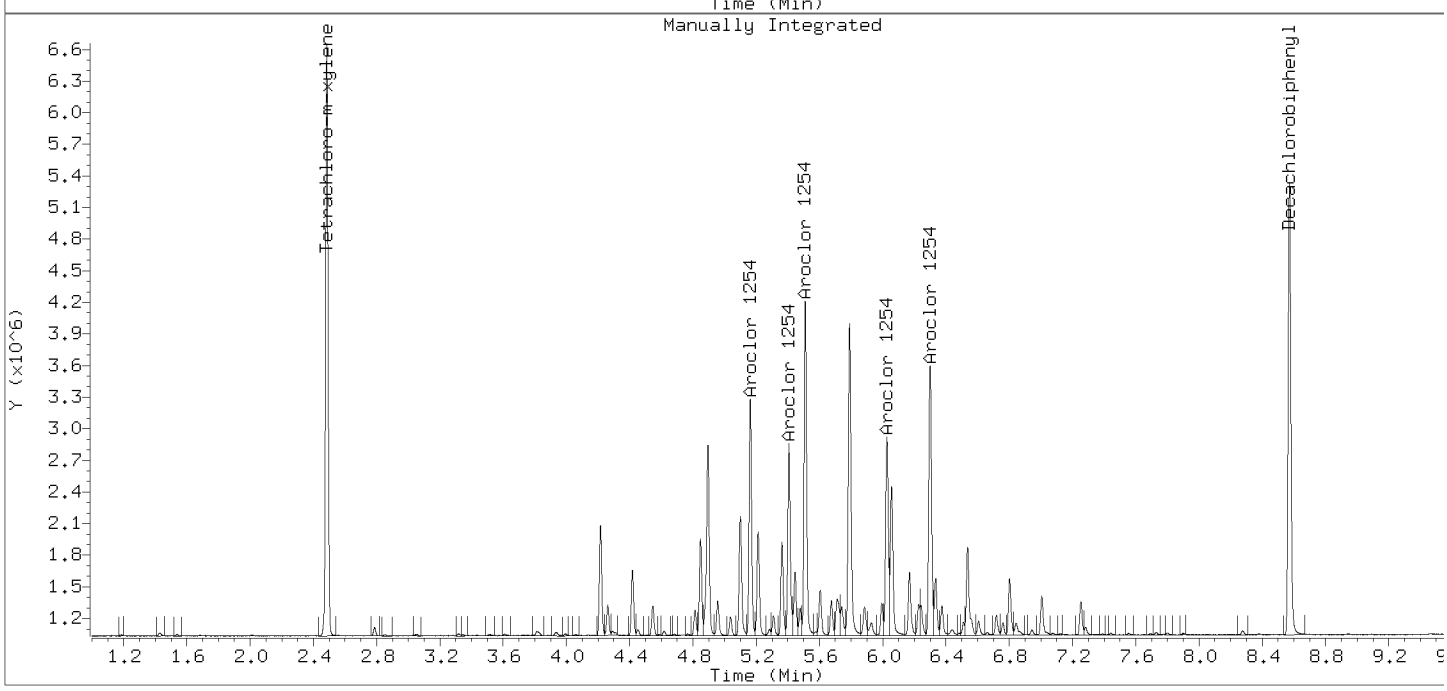
Column phase: ZB-1ms

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	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D Page 3
Report Date: 22-Mar-2018 13:35

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.

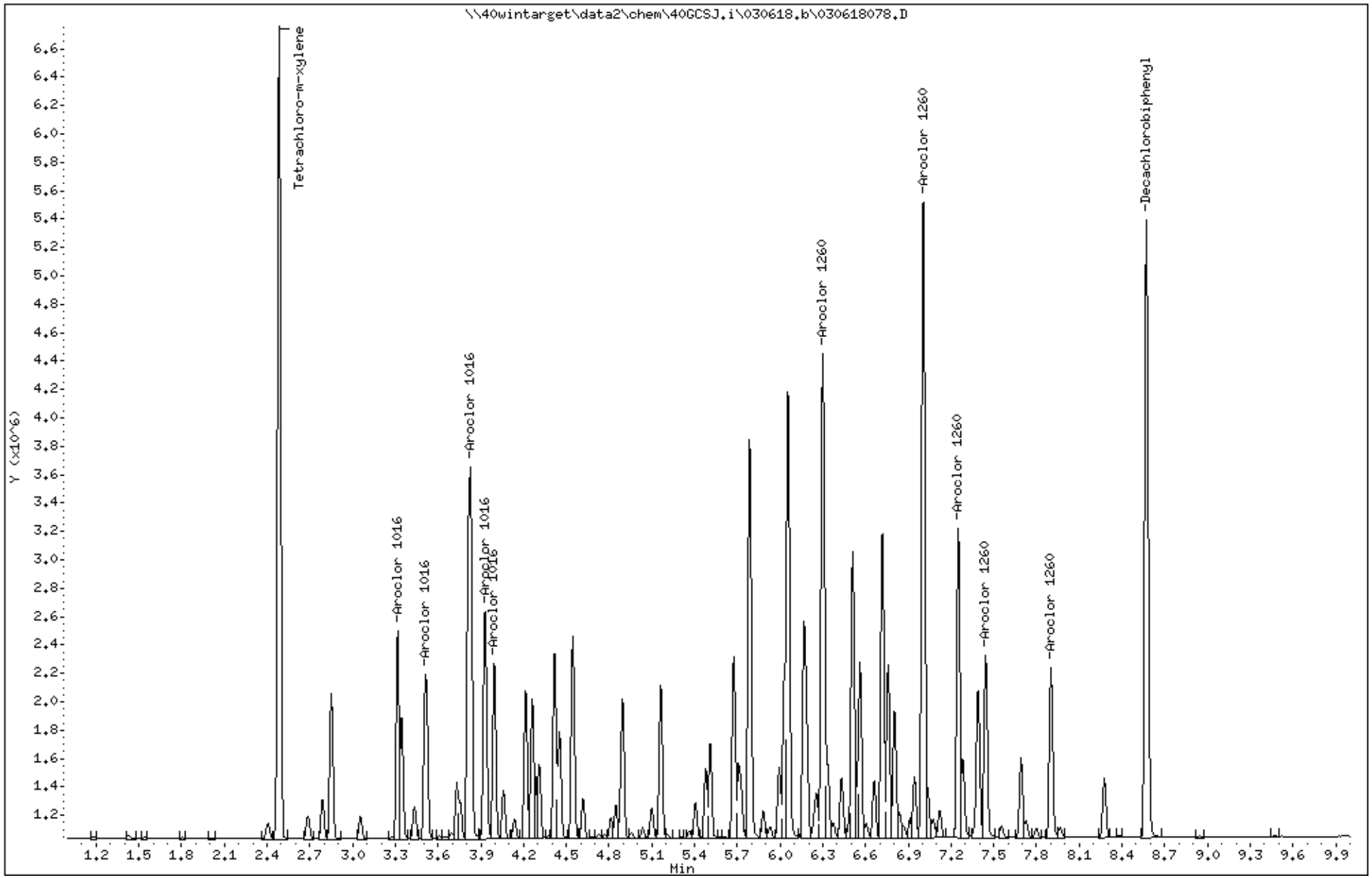
QC Flag Legend

Review Codes Legend

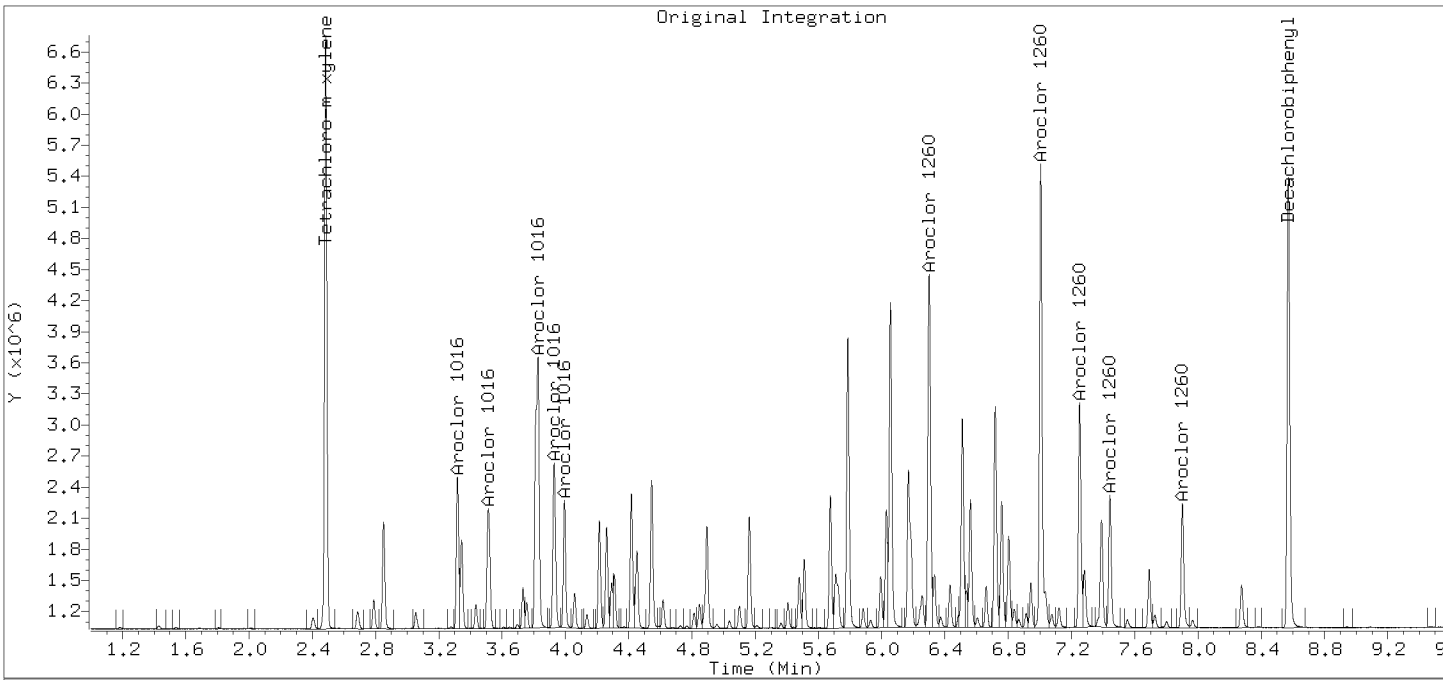
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

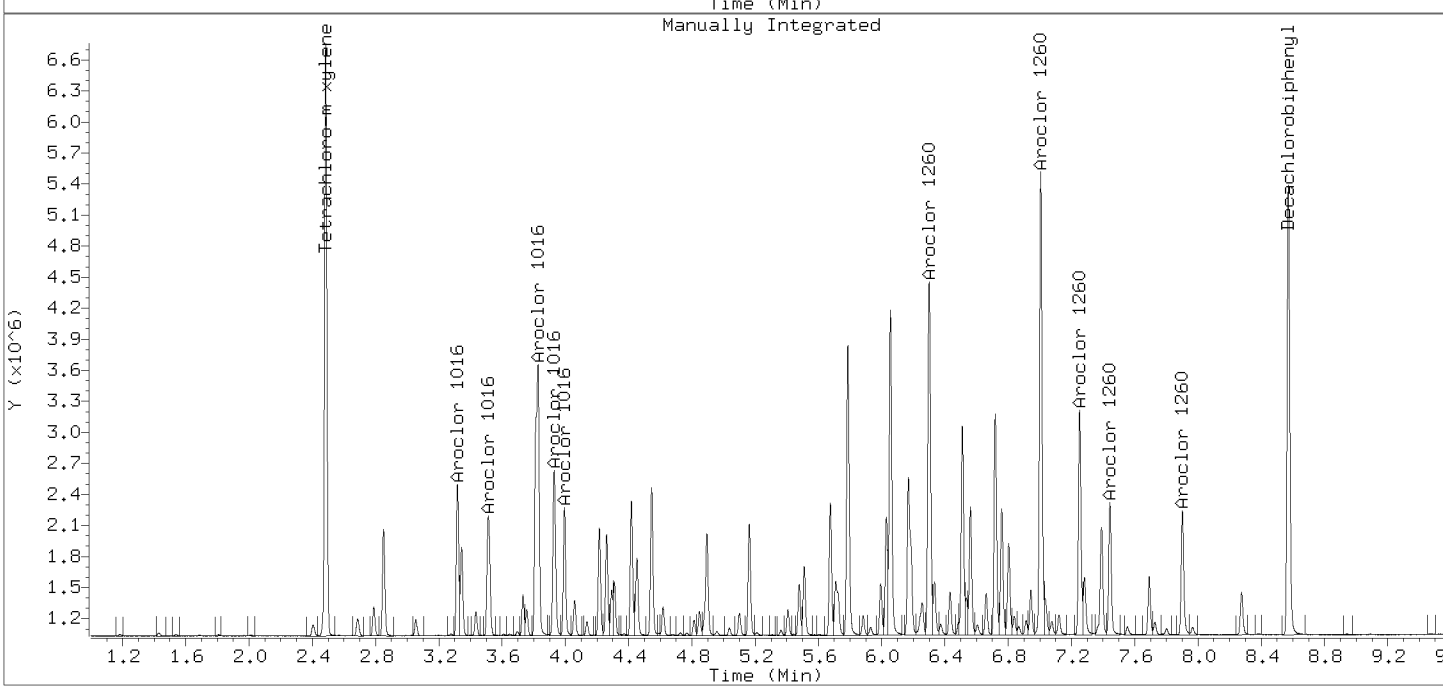
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	23743	21786	0.918	0.05		
1.431	42573	33796	0.794	0.09		
1.539	19538	16382	0.838	0.04		
1.688	26670	20840	0.781	0.05		
2.009	21106	14213	0.673	0.04		
2.407	24464	17135	0.700	0.05		
2.484	5996033	5688808	0.949	13.82	$ 2 Tetrachloro-m-xylene	
2.688	36985	28736	0.777	0.08		
2.788	114561	110085	0.961	0.25		
2.851	189519	178114	0.940	0.42		
3.054	63934	56465	0.883	0.14		
3.317	724158	689393	0.952	1.61		
3.344	293401	285200	0.972	0.65		
3.434	70590	61038	0.865	0.15		
3.515	605094	436837	0.722	1.35		
3.610	21297	20577	0.966	0.04		
3.732	143953	139387	0.968	0.32		
3.758	59978	57765	0.963	0.13		
3.813	1059486	1251056	1.181	2.36		
3.826	1378434	1314517	0.954	3.08		
3.930	920109	719002	0.781	2.05		
3.993	609241	585972	0.962	1.36		
4.057	351411	322030	0.916	0.78		
4.135	144108	129994	0.902	0.32		
4.215	1509025	1393121	0.923	3.37		
4.260	1200305	1142114	0.952	2.68	6 Aroclor 1248	BA
4.291	489636	502528	1.026	1.09		
4.309	535463	499514	0.933	1.19		
4.417	1839335	1706679	0.928	4.11		
4.452	906103	791852	0.874	2.02		
4.545	2096301	1929033	0.920	4.68	6 Aroclor 1248	BA
4.590	32259	31498	0.976	0.07		
4.616	480516	450483	0.937	1.07		
4.679	26361	21165	0.803	0.05		
4.727	63117	52682	0.835	0.14		
4.767	112761	105685	0.937	0.25		
4.813	1058115	1021812	0.966	2.36	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2023894	1938732	0.958	4.52	
4.878	2607370	1724490	0.661	5.82	6 Aroclor 1248
4.957	294339	252933	0.859	0.65	
5.037	1868361	1752219	0.938	4.17	6 Aroclor 1248
5.098	647325	522746	0.808	1.44	
5.162	783242	698611	0.892	1.75	
5.211	561748	518379	0.923	1.25	
5.285	36901	35375	0.959	0.08	
5.308	119034	103776	0.872	0.26	
5.362	492072	432077	0.878	1.10	
5.407	842341	721071	0.856	1.88	
5.445	502454	449600	0.895	1.12	
5.509	1386093	1166135	0.841	3.09	
5.603	390968	343634	0.879	0.87	
5.677	44342	38103	0.859	0.09	
5.712	81685	63787	0.781	0.18	
5.740	104901	92466	0.881	0.23	
5.792	970563	808450	0.833	2.16	
5.887	125899	79834	0.634	0.28	
5.994	27921	27544	0.986	0.06	
6.024	810195	743129	0.917	1.81	
6.054	150180	129242	0.861	0.33	
6.169	82251	54535	0.663	0.18	
6.227	50072	29229	0.584	0.11	
6.299	239788	203639	0.849	0.53	
6.333	44929	38318	0.853	0.10	
6.372	33147	28861	0.871	0.07	
6.507	33964	36968	1.088	0.07	
6.534	78218	67662	0.865	0.17	
6.603	15841	10420	0.658	0.03	
6.655	14206	9574	0.674	0.03	
6.718	39516	34211	0.866	0.08	
6.759	21499	19868	0.924	0.04	
6.801	46365	39497	0.852	0.10	
6.841	24902	16080	0.646	0.05	
6.945	9571	8007	0.837	0.02	
7.005	77691	65581	0.844	0.17	
7.124	19491	12504	0.642	0.04	
7.253	32171	28806	0.895	0.07	
7.281	16030	9600	0.599	0.03	
7.391	35261	27989	0.794	0.07	
7.442	39150	31763	0.811	0.08	
7.689	14454	14514	1.004	0.03	
7.726	24928	24323	0.976	0.05	
7.797	29344	20299	0.692	0.06	
7.901	34520	26168	0.758	0.07	
8.274	62888	53848	0.856	0.14	
8.376	17173	11520	0.671	0.03	
8.570	5412400	4745037	0.877	12.10	$ 12 Decachlorobiphenyl
9.954	16173	8104	0.501	0.03	
	44727454	40166552		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 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: 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			
2.484	2.484	0.000	5996032	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1200304	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2096300	0.50000	0.50	0.00- 20.00	174.65	BA
4.812	4.812	0.000	1058114	0.50000	0.52	0.00- 20.00	88.15	BA
4.878	4.879	-0.001	2607369	0.50000	0.52	0.00- 20.00	217.23	BA
5.037	5.038	-0.001	1868361	0.50000	0.52	0.00- 20.00	155.66	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5412400	0.05000	0.049			

QC Flag Legend

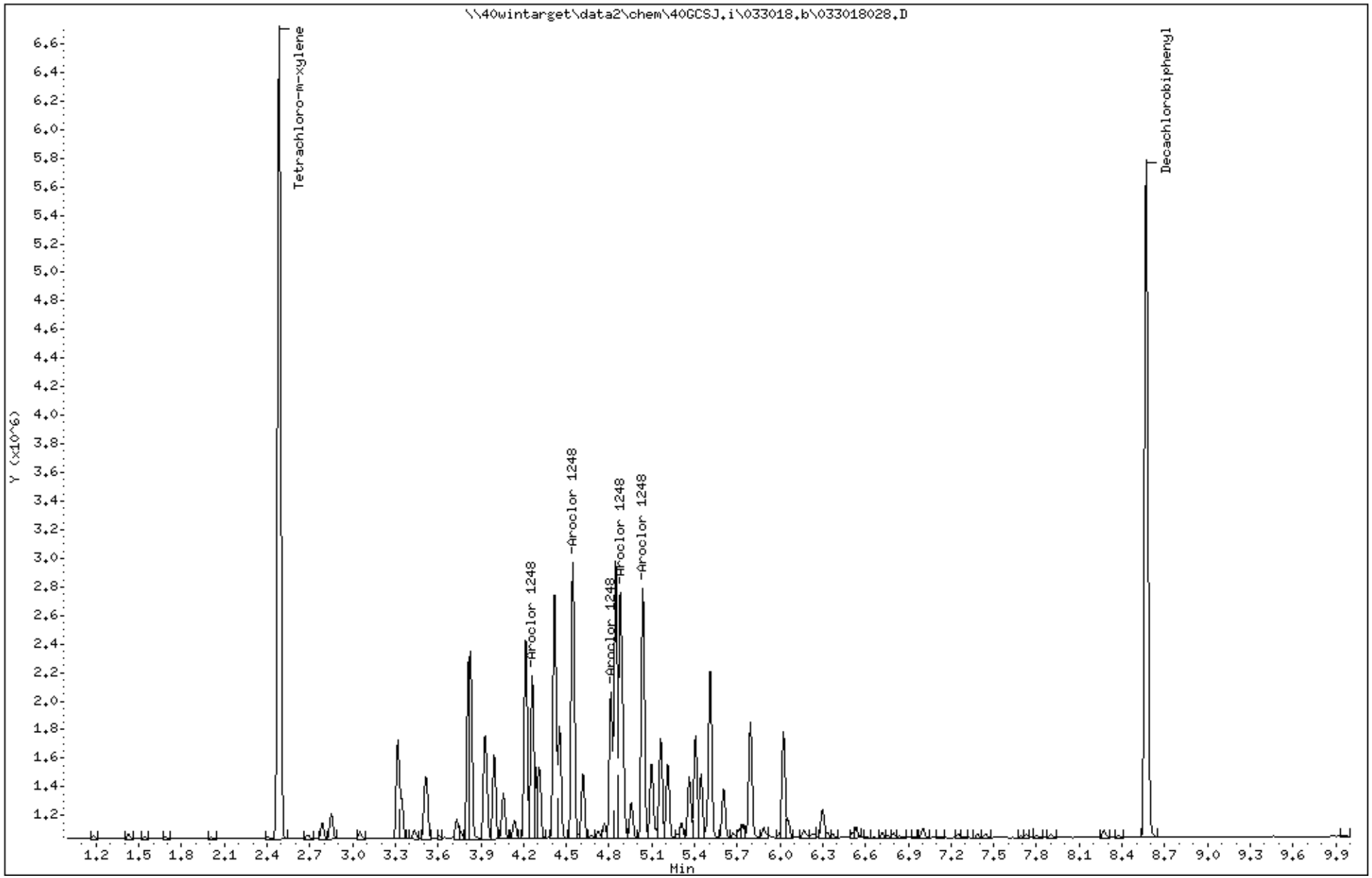
M - Compound response manually integrated.

Review Codes Legend

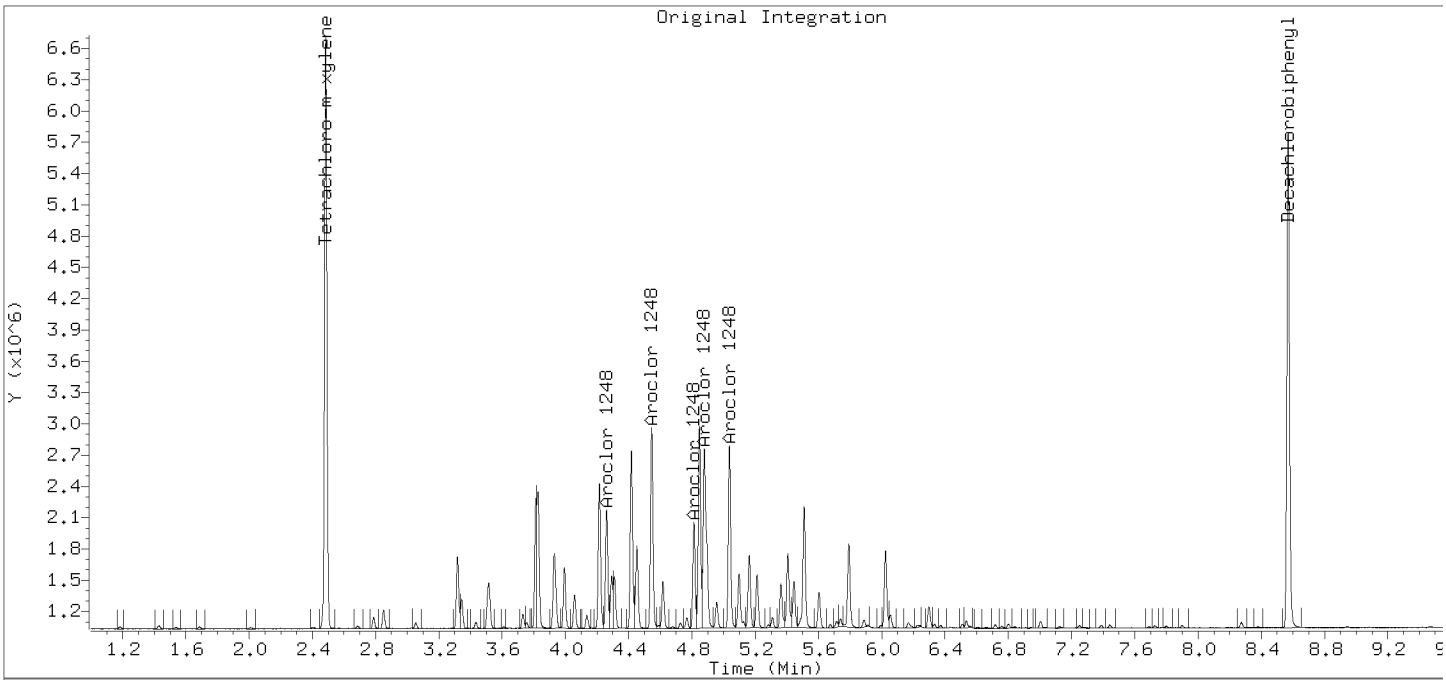
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

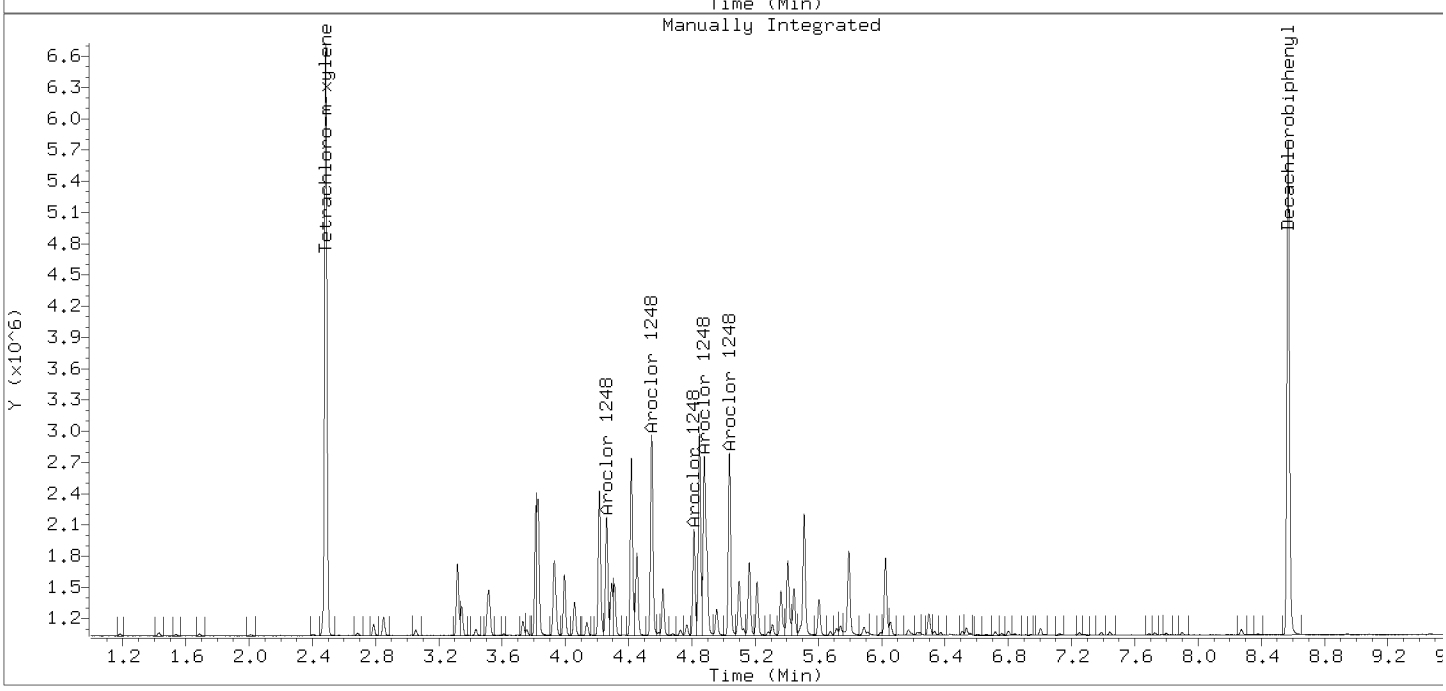
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Date : 30-MAR-2018 22:08
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 30-MAR-2018 22:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Tetrachloro-m-xylene	5996032	5996032	
Decachlorobiphenyl	5412400	5412400	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 31-MAR-2018 01:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 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: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	21140	16699	0.790	0.03		
1.427	41999	32916	0.784	0.07		
1.538	22134	15734	0.711	0.03		
1.686	44464	34247	0.770	0.07		
2.014	10170	9404	0.925	0.01		
2.413	10557	6634	0.628	0.01		
2.485	6221198	5839024	0.939	11.57	$ 2 Tetrachloro-m-xylene	
2.787	95868	87690	0.915	0.17		
2.849	26414	20028	0.758	0.04		
3.050	23746	21049	0.886	0.04		
3.318	34357	31394	0.914	0.06		
3.342	20003	18282	0.914	0.03		
3.512	30866	21959	0.711	0.05		
3.612	26431	18611	0.704	0.04		
3.730	14704	13742	0.935	0.02		
3.813	13504	24466	1.812	0.02		
3.935	65301	42797	0.655	0.11		
3.994	30867	27536	0.892	0.05		
4.057	25706	19287	0.750	0.04		
4.161	10104	9555	0.946	0.01		
4.214	1285826	1208288	0.940	2.28		
4.260	344307	330726	0.961	0.61		
4.292	60616	46795	0.772	0.10		
4.417	797201	765420	0.960	1.41		
4.453	84280	71476	0.848	0.15		
4.546	357733	341632	0.955	0.63		
4.592	19107	15409	0.806	0.03		
4.618	60962	56235	0.922	0.10		
4.679	31059	19839	0.639	0.05		
4.765	20877	19302	0.925	0.03		
4.813	304936	300039	0.984	0.54		
4.847	1181199	1118169	0.947	2.10		
4.895	2514126	2000217	0.796	4.47		
4.957	400311	356070	0.889	0.71		
5.036	253219	240103	0.948	0.45		
5.099	1478956	1268342	0.858	2.63		
5.162	2720027	2465314	0.906	4.84	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.212	1245437	1149786	0.923	2.21	
5.283	63706	60491	0.950	0.11	
5.308	223108	209590	0.939	0.39	
5.362	1101800	994241	0.902	1.96	
5.407	2266833	1999147	0.882	4.03	7 Aroclor 1254
5.445	772799	712298	0.922	1.37	
5.478	274807	263550	0.959	0.48	
5.509	4043084	3692883	0.913	7.20	7 Aroclor 1254
5.576	46978	42866	0.912	0.08	
5.603	572282	523062	0.914	1.01	
5.674	359318	344649	0.959	0.63	
5.711	559484	364619	0.652	0.99	
5.740	353096	289609	0.820	0.62	
5.790	4157605	3299587	0.794	7.40	
5.883	359517	282123	0.785	0.64	
5.928	182191	115225	0.632	0.32	
5.993	352863	323833	0.918	0.62	
6.025	2647349	2228910	0.842	4.71	7 Aroclor 1254
6.054	1831984	1566539	0.855	3.26	
6.167	755562	646286	0.855	1.34	
6.225	295167	310571	1.052	0.52	
6.240	344817	293530	0.851	0.61	
6.298	3468411	2829688	0.816	6.17	7 Aroclor 1254
6.333	601912	560736	0.932	1.07	
6.373	349949	301178	0.861	0.62	
6.437	90875	51973	0.572	0.16	
6.487	17299	17404	1.006	0.03	
6.509	121611	126033	1.036	0.21	
6.535	1192633	942811	0.791	2.12	
6.605	167394	145297	0.868	0.29	
6.660	27212	23928	0.879	0.04	
6.718	236668	197172	0.833	0.42	
6.758	134178	119599	0.891	0.23	
6.800	667264	619072	0.928	1.18	
6.841	171727	120085	0.699	0.30	
6.906	19740	15067	0.763	0.03	
6.941	57850	52551	0.908	0.10	
7.003	464609	415862	0.895	0.82	
7.075	28321	25062	0.885	0.05	
7.128	30149	17939	0.595	0.05	
7.249	389338	348933	0.896	0.69	
7.280	83090	75656	0.911	0.14	
7.332	9317	7113	0.763	0.01	
7.389	12677	12315	0.971	0.02	
7.443	23201	21589	0.931	0.04	
7.555	32663	21049	0.644	0.05	
7.688	17517	16427	0.938	0.03	
7.728	28883	26155	0.906	0.05	
7.776	30321	18469	0.609	0.05	
7.901	30068	21832	0.726	0.05	
8.273	49592	43980	0.887	0.08	
8.374	57600	38667	0.671	0.10	
8.569	5665599	4919331	0.868	10.08	$ 12 Decachlorobiphenyl
8.938	87476	55888	0.639	0.15	
9.464	120288	74973	0.623	0.21	
9.718	9380	4565	0.487	0.01	
9.957	142449	86794	0.609	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	56151322	49023018		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 31-MAR-2018 01:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 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: 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			
2.484	2.484	0.000	6221198	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2720027	0.50000	0.52	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2266832	0.50000	0.53	0.00- 20.00	83.34	BA
5.508	5.510	-0.002	4043083	0.50000	0.52	0.00- 20.00	148.64	BA
6.024	6.027	-0.003	2647348	0.50000	0.54	0.00- 20.00	97.33	BA
6.297	6.299	-0.002	3468411	0.50000	0.53	0.00- 20.00	127.51	BA
Average of Peak Amounts =					0.52800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5665598	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\033018.b\033018040.D

Date : 31-MAR-2018 01:18

Client ID: 1254-CCV

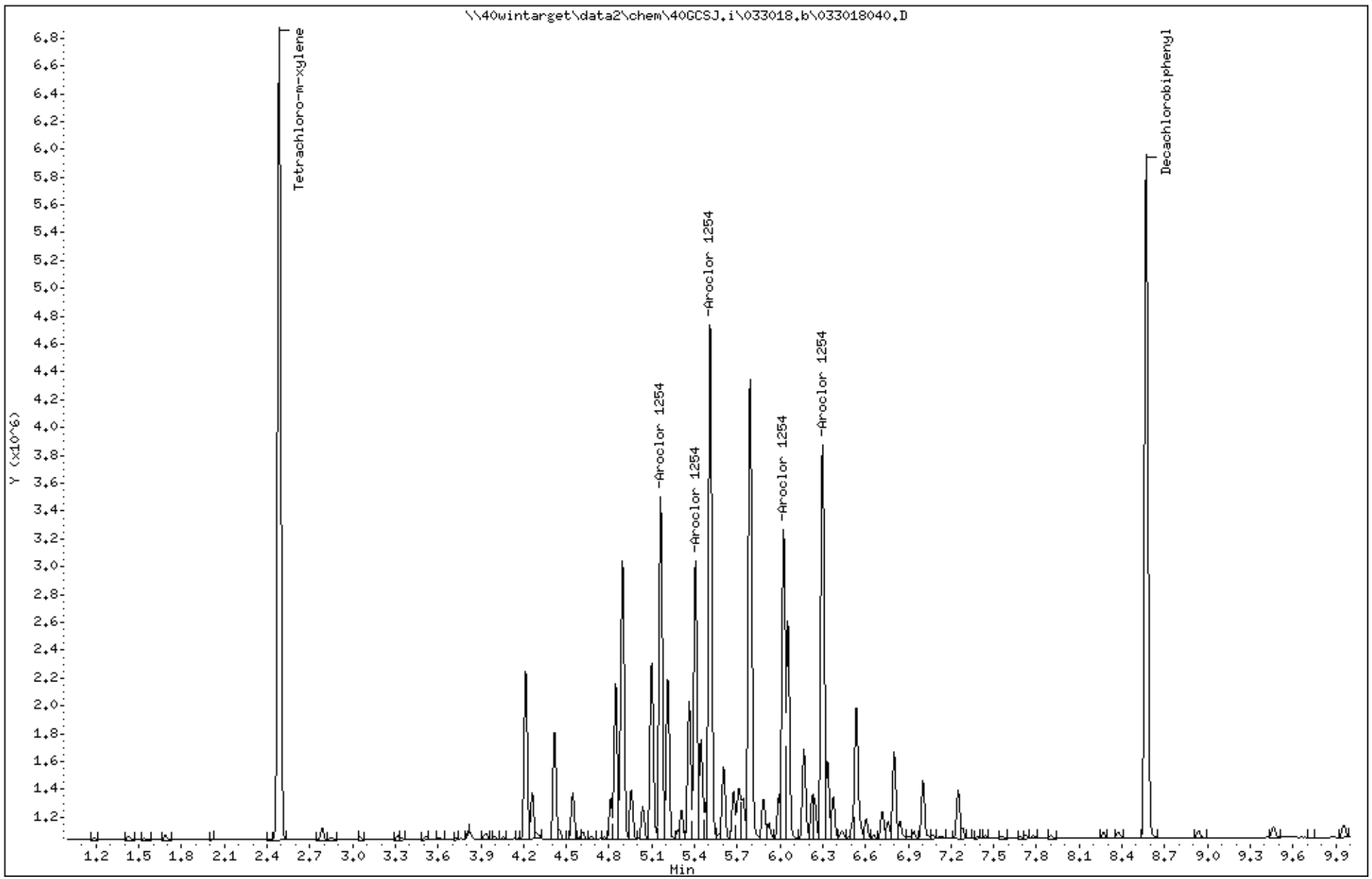
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

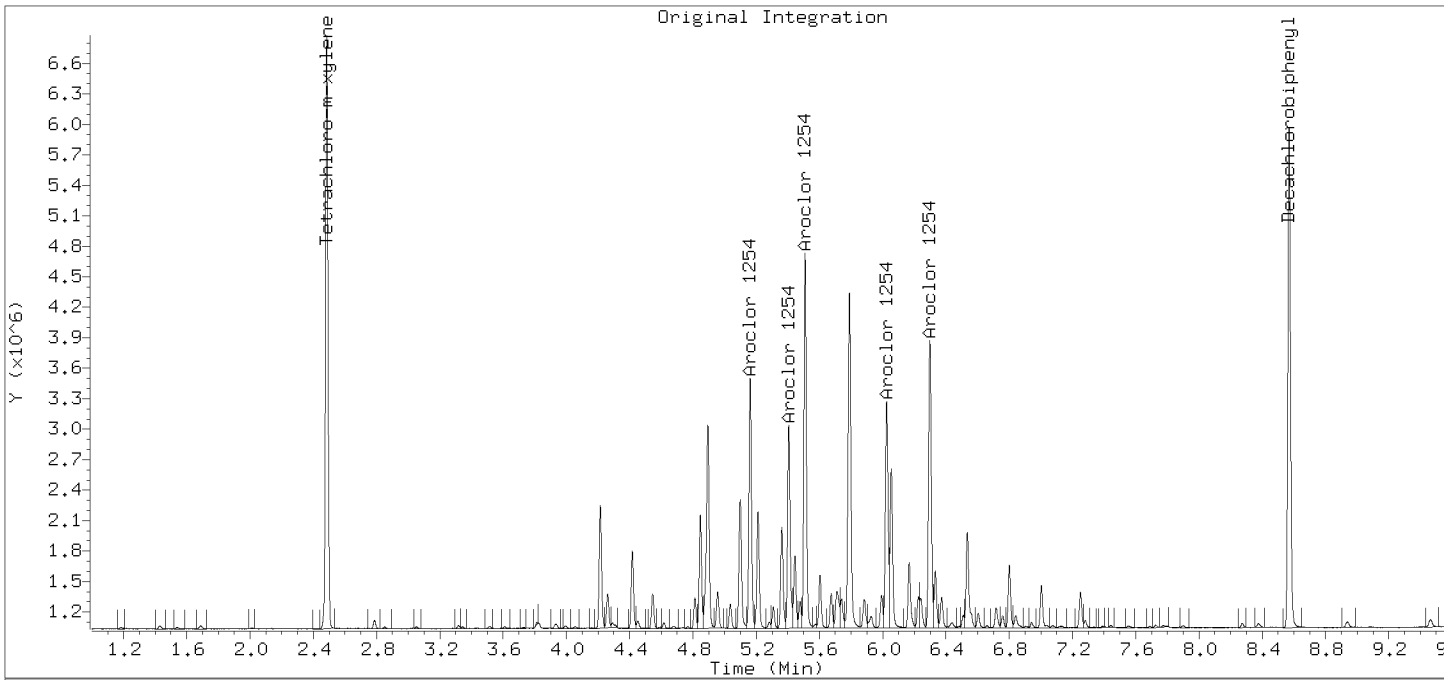
Operator: BLM

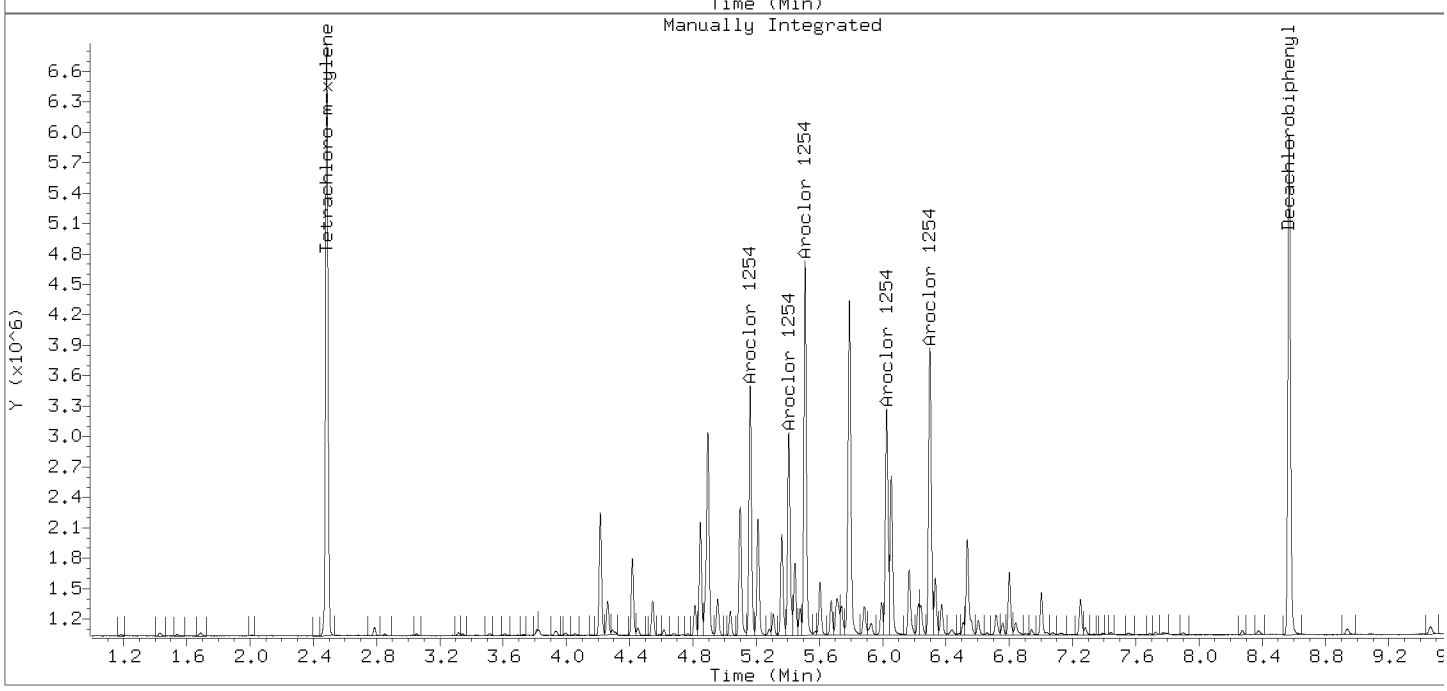
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018040.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 31-MAR-2018 01:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Tetrachloro-m-xylene	6221198	6221198	
Decachlorobiphenyl	5665598	5665598	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 31-MAR-2018 04:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 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
1.185	55907	45979	0.822	0.06		
1.429	38888	32399	0.833	0.04		
1.537	25766	16184	0.628	0.02		
1.686	24823	19501	0.786	0.02		
1.805	17112	15013	0.877	0.01		
2.009	34482	25478	0.739	0.03		
2.197	12657	8906	0.704	0.01		
2.405	149127	112111	0.752	0.16		
2.485	6219917	5912763	0.951	7.47	$ 2 Tetrachloro-m-xylene	
2.687	214955	176811	0.823	0.24		
2.789	317364	296153	0.933	0.35		
2.850	1171307	1080385	0.922	1.31		
3.028	18653	19616	1.052	0.02		
3.054	167847	156032	0.930	0.18		
3.278	29615	21705	0.733	0.03		
3.318	1591961	1454348	0.914	1.78	5 Aroclor 1016	BA
3.343	908581	854120	0.940	1.02		
3.435	248495	228392	0.919	0.27		
3.512	1579222	1139611	0.722	1.77	5 Aroclor 1016	BA
3.610	21745	21139	0.972	0.02		
3.645	27453	17282	0.630	0.03		
3.694	45399	44285	0.975	0.05		
3.731	404461	410825	1.016	0.45		
3.756	277435	257447	0.928	0.31		
3.825	4625808	2703910	0.585	5.19	5 Aroclor 1016	BA
3.928	1969619	1629783	0.827	2.21	5 Aroclor 1016	BA
3.994	1337393	1260603	0.943	1.50	5 Aroclor 1016	BA
4.058	378423	346880	0.917	0.42		
4.136	144861	135123	0.933	0.16		
4.215	1137743	1084965	0.954	1.27		
4.260	1028909	967207	0.940	1.15		
4.292	422256	449754	1.065	0.47		
4.309	536316	499746	0.932	0.60		
4.370	37734	27180	0.720	0.04		
4.417	1422387	1321547	0.929	1.59		
4.452	1059334	806522	0.761	1.18		
4.545	1803335	1677975	0.930	2.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	403345	378612	0.939	0.45	
4.679	26261	19740	0.752	0.02	
4.725	64000	55260	0.863	0.07	
4.768	59206	57216	0.966	0.06	
4.813	336455	328481	0.976	0.37	
4.847	528899	497649	0.941	0.59	
4.894	1648459	1232592	0.748	1.85	
4.955	103596	83258	0.804	0.11	
5.037	94851	86695	0.914	0.10	
5.099	343173	297232	0.866	0.38	
5.163	1361269	1241848	0.912	1.52	
5.212	56991	51698	0.907	0.06	
5.308	15807	14018	0.887	0.01	
5.362	97568	83728	0.858	0.10	
5.406	371787	349650	0.940	0.41	
5.444	15340	15424	1.005	0.01	
5.477	535559	494040	0.922	0.60	
5.509	947791	872083	0.920	1.06	
5.605	19682	16262	0.826	0.02	
5.674	1383906	1271894	0.919	1.55	
5.708	996621	560485	0.562	1.11	
5.785	3399878	2883912	0.848	3.81	
5.882	229560	208642	0.909	0.25	
5.928	108792	89462	0.822	0.12	
5.993	585681	538851	0.920	0.65	
6.029	1320191	1324832	1.004	1.48	
6.054	3805699	3295937	0.866	4.27	
6.167	2480608	1583773	0.638	2.78	
6.255	554708	320023	0.577	0.62	
6.299	4695646	3932340	0.837	5.27	8 Aroclor 1260
6.333	643632	592600	0.921	0.72	
6.372	152976	132932	0.869	0.17	
6.430	475543	409516	0.861	0.53	
6.484	102361	125508	1.226	0.11	
6.508	2260796	2051082	0.907	2.53	
6.533	446065	468654	1.051	0.50	
6.560	1400779	1241097	0.886	1.57	
6.603	146773	128618	0.876	0.16	
6.659	440172	418201	0.950	0.49	
6.718	2431855	2194241	0.902	2.73	
6.758	1362160	1215660	0.892	1.52	
6.802	1150202	1023047	0.889	1.29	
6.838	200924	176706	0.879	0.22	
6.865	100634	87935	0.874	0.11	
6.913	151757	142859	0.941	0.17	
6.942	487618	451296	0.926	0.54	
7.003	5365372	4761787	0.888	6.02	8 Aroclor 1260
7.034	341359	335050	0.982	0.38	
7.074	154331	128725	0.834	0.17	
7.121	231835	191527	0.826	0.26	
7.220	11464	14385	1.255	0.01	
7.250	2630561	2326387	0.884	2.95	8 Aroclor 1260
7.281	703494	615802	0.875	0.79	
7.388	1275946	1081111	0.847	1.43	
7.441	1528389	1419238	0.929	1.71	8 Aroclor 1260
7.551	118469	97964	0.827	0.13	
7.689	633495	573692	0.906	0.71	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.727	86716	76936	0.887	0.09	
7.771	18445	17936	0.972	0.02	
7.800	75824	60256	0.795	0.08	
7.900	1423703	1208395	0.849	1.59	8 Aroclor 1260
7.964	95393	79433	0.833	0.10	
8.273	374568	322980	0.862	0.42	
8.378	31507	20149	0.640	0.03	
8.569	5798660	4974366	0.858	6.51	$ 12 Decachlorobiphenyl
8.940	28458	19622	0.690	0.03	
9.465	28180	18783	0.667	0.03	
9.960	28036	19441	0.693	0.03	
	89037072	76687234		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 31-MAR-2018 04:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 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	6219916	0.05000	0.050			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1591961	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1579221	0.50000	0.51	0.00- 20.00	99.20	BA
3.825	3.826	-0.001	4625807	0.50000	0.52	0.00- 20.00	290.57	BA
3.928	3.929	-0.001	1969618	0.50000	0.52	0.00- 20.00	123.72	BA
3.993	3.994	-0.001	1337392	0.50000	0.51	0.00- 20.00	84.01	BA
Average of Peak Amounts =					0.51600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4695645	0.50000	0.53	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5365372	0.50000	0.54	0.00- 20.00	114.26	BA
7.250	7.251	-0.001	2630561	0.50000	0.55	0.00- 20.00	56.02	BA
7.441	7.443	-0.002	1528389	0.50000	0.52	0.00- 20.00	32.55	BA
7.900	7.901	-0.001	1423702	0.50000	0.54	0.00- 20.00	30.32	BA
Average of Peak Amounts =					0.53600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5798659	0.05000	0.053			

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\033018.b\033018052.D

Date : 31-MAR-2018 04:28

Client ID: 1660-CCV

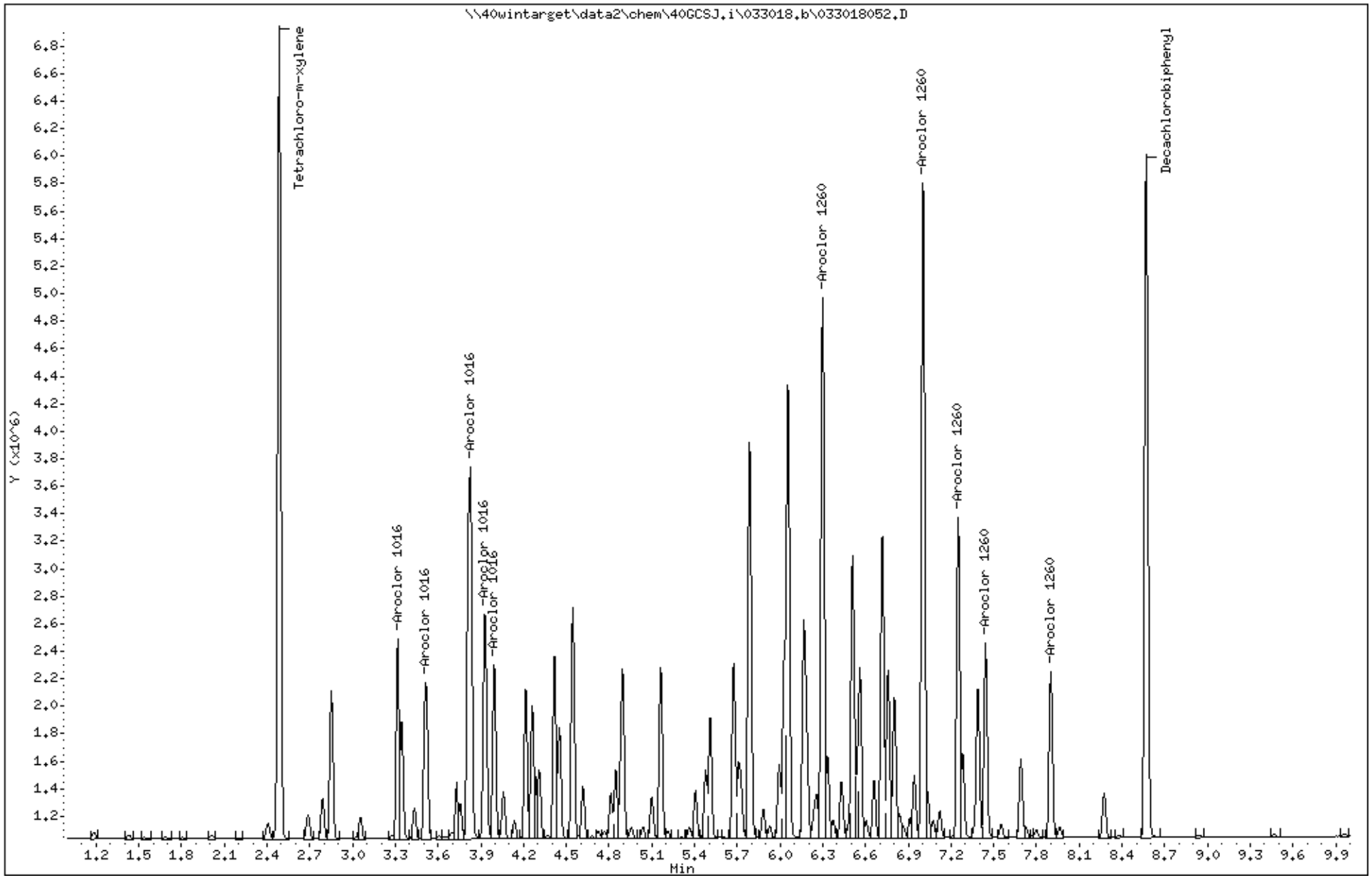
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

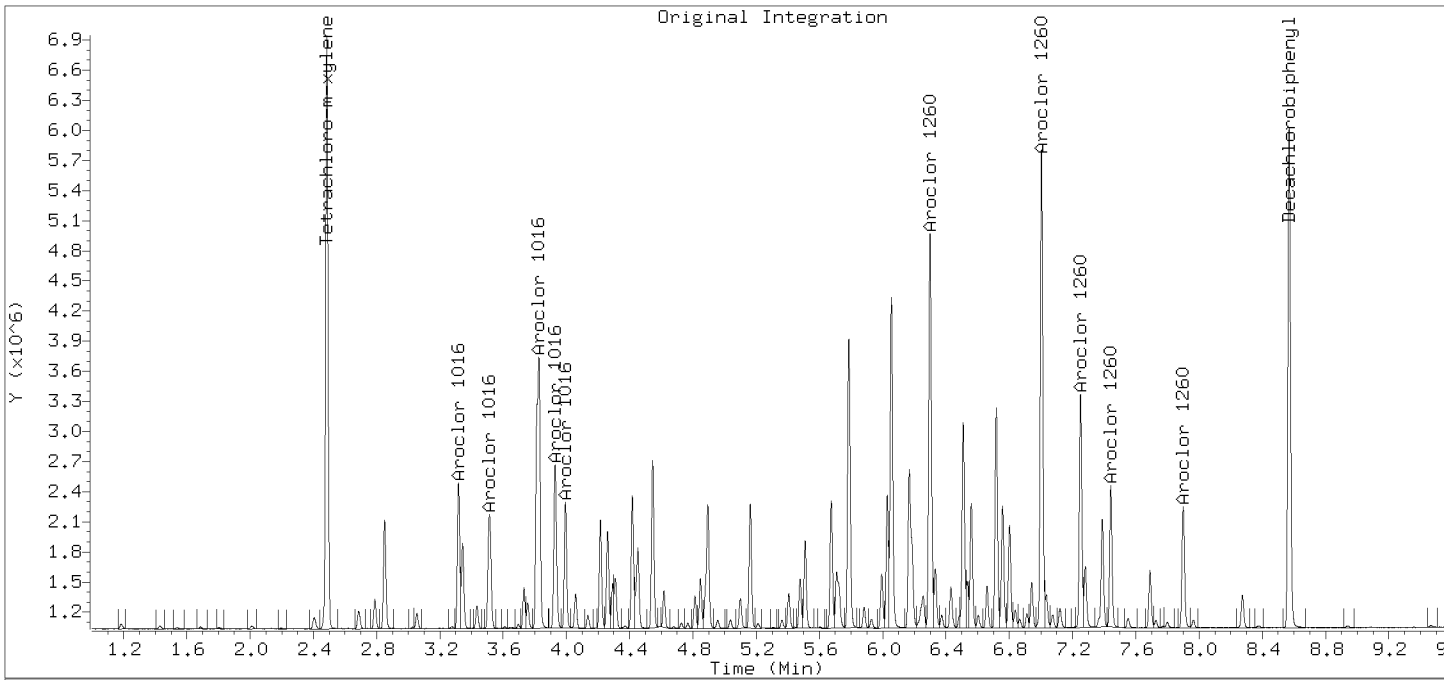
Operator: BLM

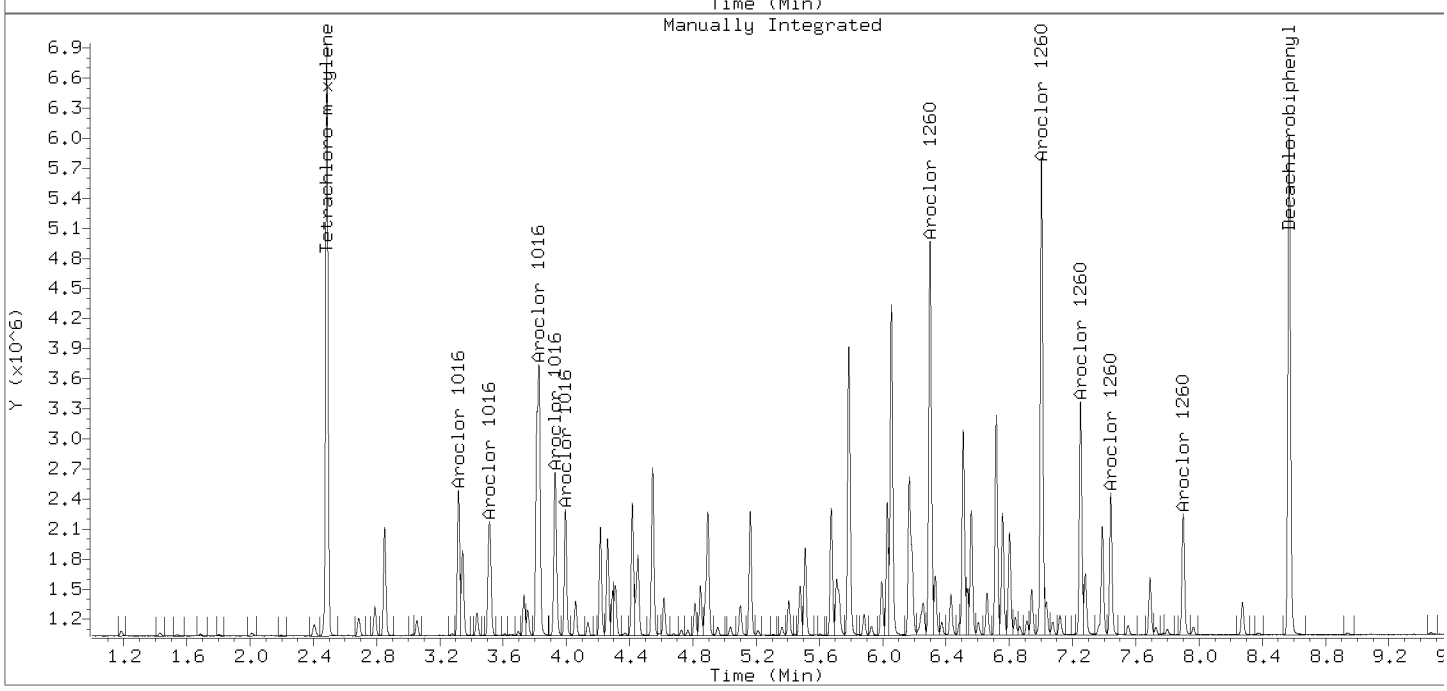
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018052.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 31-MAR-2018 04:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Tetrachloro-m-xylene	6219916	6219916	
Decachlorobiphenyl	5798659	5798659	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	16154	15722	0.973	0.05		
1.431	40789	33284	0.816	0.14		
1.539	21156	14382	0.680	0.07		
1.687	29481	23631	0.802	0.10		
1.805	313530	258991	0.826	1.13		
2.011	15864	10447	0.659	0.05		
2.198	86180	74148	0.860	0.31		
2.407	204753	152073	0.743	0.74		
2.485	6093788	5679637	0.932	22.42	$ 2 Tetrachloro-m-xylene	
2.688	448465	357329	0.797	1.62		
2.790	416134	380561	0.915	1.50		
2.851	1325810	1179596	0.890	4.79	4 Aroclor 1232	BA
3.054	92002	78604	0.854	0.33		
3.281	70037	51241	0.732	0.25		
3.318	778705	690578	0.887	2.81		
3.344	416625	384715	0.923	1.50		
3.434	121213	108900	0.898	0.43		
3.514	708338	501805	0.708	2.56	4 Aroclor 1232	BA
3.610	20966	17023	0.812	0.07		
3.696	22209	22046	0.993	0.08		
3.732	182695	184008	1.007	0.66		
3.756	128421	121765	0.948	0.46		
3.826	1952917	1160572	0.594	7.06	4 Aroclor 1232	BA
3.929	840949	706211	0.840	3.04	4 Aroclor 1232	BA
3.995	549024	518977	0.945	1.98	4 Aroclor 1232	BA
4.058	152417	139074	0.912	0.55		
4.136	62388	53070	0.851	0.22		
4.215	416966	389785	0.935	1.50		
4.261	400489	384404	0.960	1.44		
4.293	167377	170501	1.019	0.60		
4.311	207602	191849	0.924	0.75		
4.417	559143	522860	0.935	2.02		
4.451	445880	322841	0.724	1.61		
4.546	719415	656715	0.913	2.60		
4.617	172475	154881	0.898	0.62		
4.678	15028	10600	0.705	0.05		
4.728	37505	31580	0.842	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	39002	37600	0.964	0.14	
4.813	314740	298205	0.947	1.13	
4.848	550098	524328	0.953	1.99	
4.878	709754	527067	0.743	2.56	
4.960	79189	58785	0.742	0.28	
5.038	584443	528462	0.904	2.11	
5.098	120209	90036	0.749	0.43	
5.162	136101	119348	0.877	0.49	
5.213	98153	81384	0.829	0.35	
5.310	25396	22169	0.873	0.09	
5.362	83546	72458	0.867	0.30	
5.408	140180	118790	0.847	0.50	
5.446	88956	75053	0.844	0.32	
5.490	23944	30508	1.274	0.08	
5.511	204188	170637	0.836	0.73	
5.604	74900	60034	0.802	0.27	
5.675	12398	12921	1.042	0.04	
5.711	21399	13524	0.632	0.07	
5.742	17806	16371	0.919	0.06	
5.791	156241	118058	0.756	0.56	
5.889	16023	14870	0.928	0.05	
6.025	117831	100532	0.853	0.42	
6.057	35627	28507	0.800	0.12	
6.302	39938	33901	0.849	0.14	
6.508	11284	12044	1.067	0.04	
6.719	15956	14710	0.922	0.05	
6.760	12552	10006	0.797	0.04	
7.004	24797	21335	0.860	0.08	
7.124	28025	16782	0.599	0.10	
7.252	11398	10994	0.965	0.04	
7.394	10791	8003	0.742	0.03	
7.688	11458	10119	0.883	0.04	
7.726	29226	26651	0.912	0.10	
7.800	24113	22454	0.931	0.08	
8.276	65158	49314	0.757	0.23	
8.376	16293	12330	0.757	0.05	
8.571	5335689	4569067	0.856	19.30	$ 12 Decachlorobiphenyl
8.937	11731	9456	0.806	0.04	
9.412	9731	10131	1.041	0.03	
9.447	23570	13568	0.576	0.08	
9.464	36859	20070	0.545	0.13	
9.837	19446	13728	0.706	0.07	
	27641030	23758716		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: 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			
2.485	2.484	0.001	6093787	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1325810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	708337	0.50000	0.53	0.00- 20.00	53.43	BA
3.826	3.827	-0.001	1952916	0.50000	0.52	0.00- 20.00	147.30	BA
3.929	3.929	0.000	840948	0.50000	0.52	0.00- 20.00	63.43	BA
3.994	3.995	-0.001	549024	0.50000	0.50	0.00- 20.00	41.41	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5335689	0.05000	0.049			

QC Flag Legend

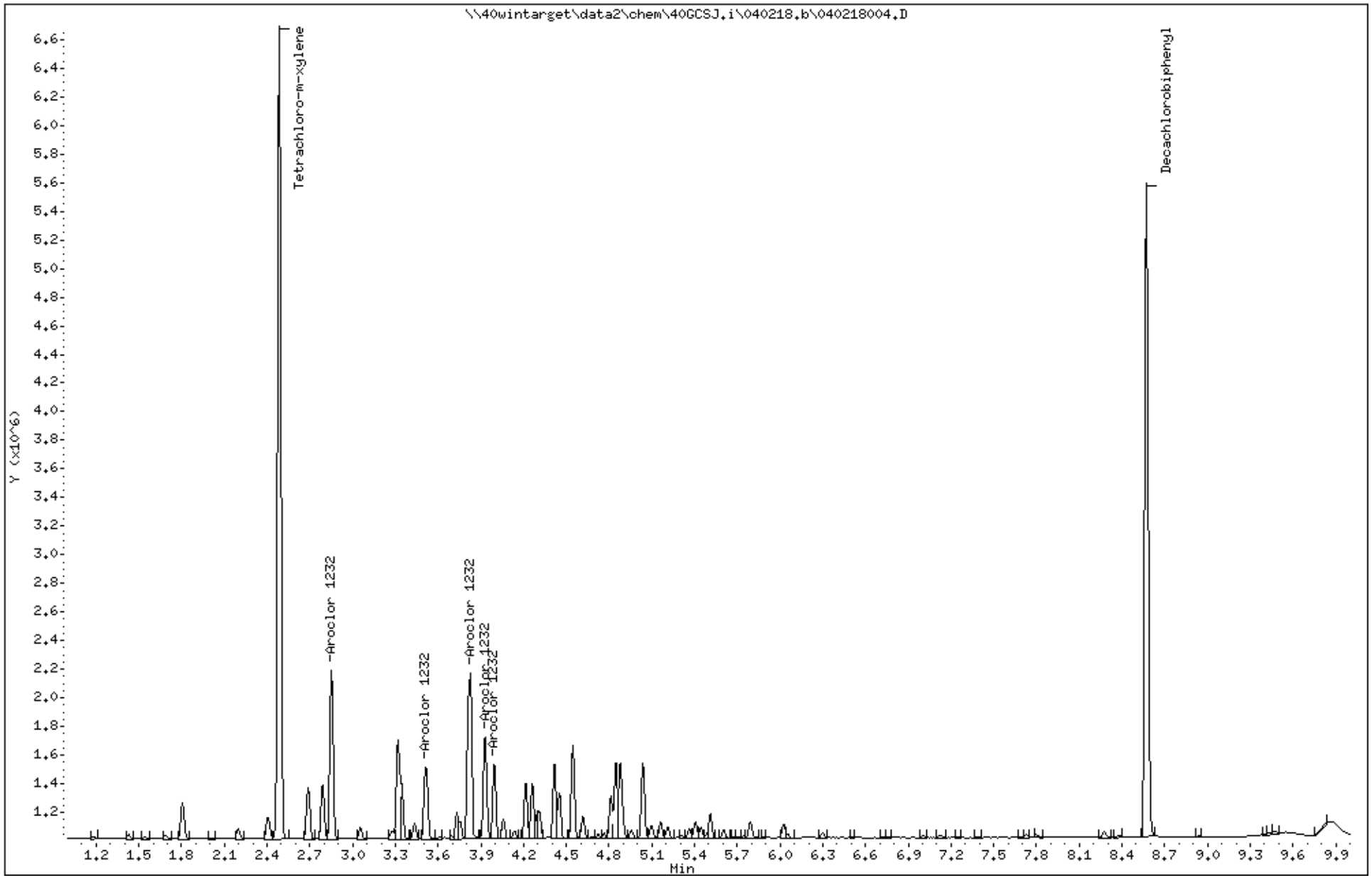
M - Compound response manually integrated.

Review Codes Legend

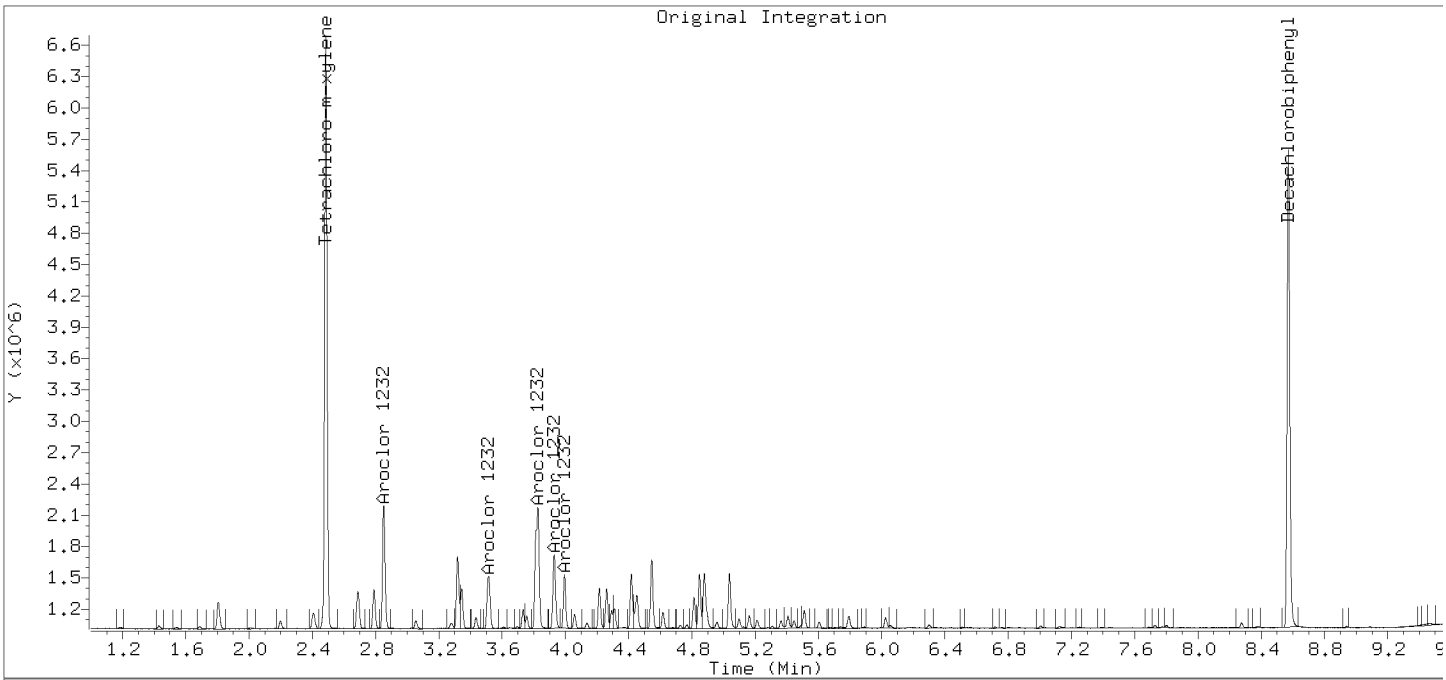
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

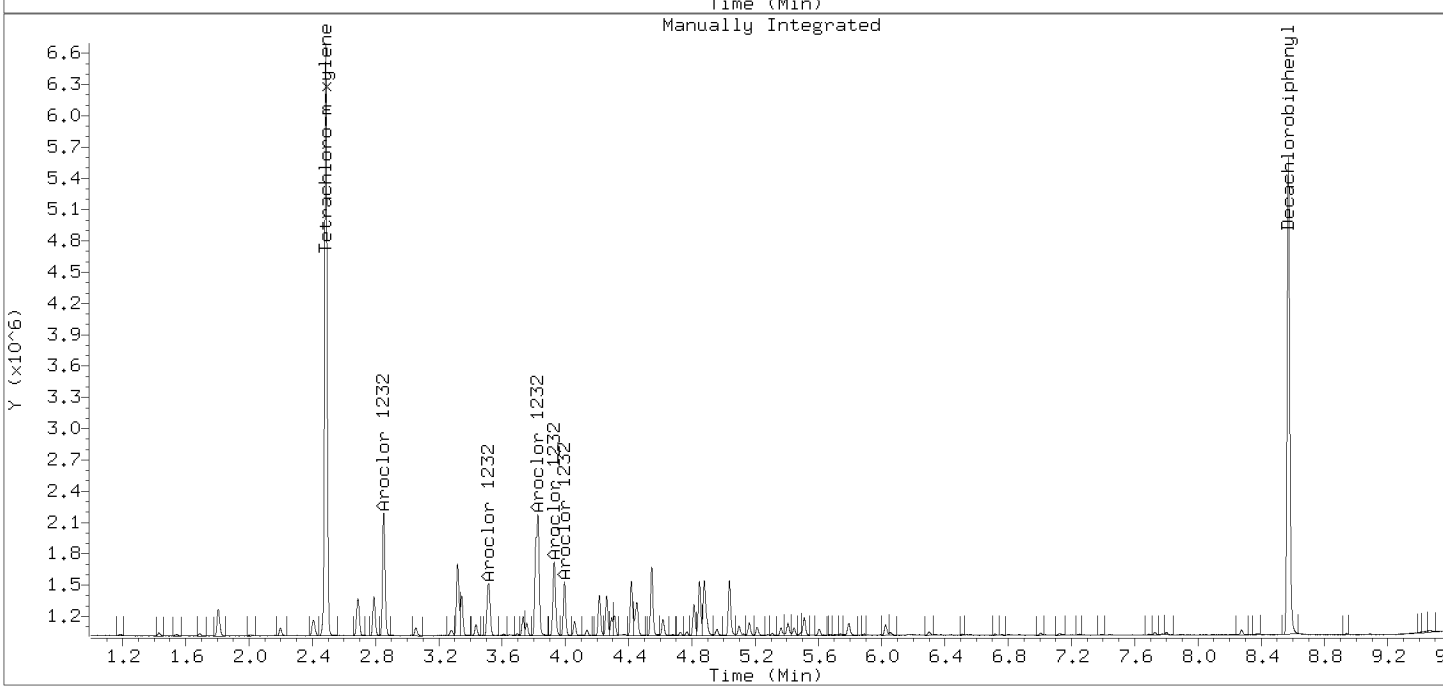
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Date : 02-APR-2018 15:12
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 02-APR-2018 15:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Tetrachloro-m-xylene	6093787	6093787	
Decachlorobiphenyl	5335689	5335689	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	17821	15886	0.891	0.04		
1.432	45222	31242	0.691	0.11		
1.538	21572	13138	0.609	0.05		
1.684	19649	17728	0.902	0.04		
1.804	18570	13729	0.739	0.04		
2.008	17473	12300	0.704	0.04		
2.404	128596	93183	0.725	0.31		
2.485	6301500	5675047	0.901	15.74	$ 2 Tetrachloro-m-xylene	
2.686	181290	144628	0.798	0.44		
2.789	282866	255828	0.904	0.68		
2.851	998279	890440	0.892	2.42		
3.055	149201	132896	0.891	0.36		
3.279	23523	17758	0.755	0.05		
3.317	1346810	1245391	0.925	3.27	3 Aroclor 1242	BA
3.344	775959	708984	0.914	1.88		
3.433	214832	191809	0.893	0.52		
3.513	1332451	967164	0.726	3.24	3 Aroclor 1242	BA
3.610	20288	19701	0.971	0.04		
3.649	23030	15142	0.657	0.05		
3.696	37200	36579	0.983	0.09		
3.732	338729	330491	0.976	0.82		
3.756	227994	207114	0.908	0.55		
3.826	3811952	2226457	0.584	9.27	3 Aroclor 1242	BA
3.929	1635133	1328965	0.813	3.97	3 Aroclor 1242	BA
3.994	1082677	1011360	0.934	2.63	3 Aroclor 1242	BA
4.058	333649	291707	0.874	0.81		
4.136	127140	111419	0.876	0.30		
4.215	904321	837913	0.927	2.20		
4.261	870883	815866	0.937	2.11		
4.292	361286	365946	1.013	0.87		
4.310	456122	418421	0.917	1.11		
4.370	27706	22265	0.804	0.06		
4.416	1202805	1108026	0.921	2.92		
4.452	930625	682578	0.733	2.26		
4.545	1548148	1424049	0.920	3.76		
4.617	367660	320062	0.871	0.89		
4.681	29217	18746	0.642	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	76721	65147	0.849	0.18	
4.768	84491	82056	0.971	0.20	
4.813	720013	694730	0.965	1.75	
4.848	1238309	1160034	0.937	3.01	
4.879	1602520	1167458	0.729	3.90	
4.957	185477	140673	0.758	0.45	
5.037	1318958	1208381	0.916	3.21	
5.099	287262	219903	0.766	0.69	
5.161	332752	291805	0.877	0.80	
5.212	256334	228726	0.892	0.62	
5.285	23628	19200	0.813	0.05	
5.308	58032	47311	0.815	0.14	
5.361	216457	180162	0.832	0.52	
5.406	355180	298885	0.842	0.86	
5.445	232749	197910	0.850	0.56	
5.509	585766	445073	0.760	1.42	
5.604	174324	151343	0.868	0.42	
5.674	15874	12576	0.792	0.03	
5.717	37345	27942	0.748	0.09	
5.740	63412	42518	0.671	0.15	
5.792	404999	322540	0.796	0.98	
5.889	57301	38244	0.667	0.13	
5.992	11168	13936	1.248	0.02	
6.024	330253	282671	0.856	0.80	
6.055	67785	55247	0.815	0.16	
6.170	24499	20261	0.827	0.05	
6.226	28055	16848	0.601	0.06	
6.297	108624	91984	0.847	0.26	
6.334	22129	20539	0.928	0.05	
6.370	13430	14238	1.060	0.03	
6.536	42599	34034	0.799	0.10	
6.603	10119	6941	0.686	0.02	
6.801	22917	21257	0.928	0.05	
7.005	12330	10630	0.862	0.03	
7.122	9292	7693	0.828	0.02	
7.250	9404	8703	0.926	0.02	
7.727	33023	25894	0.784	0.08	
7.800	28192	22383	0.794	0.06	
8.275	53024	46006	0.868	0.12	
8.377	20659	13455	0.651	0.05	
8.570	5673409	4742501	0.836	13.80	$ 12 Decachlorobiphenyl
8.942	14966	9868	0.659	0.03	
9.464	11345	8871	0.782	0.02	
	41087307	34536535		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: 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	6301500	0.05000	0.051			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1346810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1332451	0.50000	0.53	0.00- 20.00	98.93	BA
3.825	3.827	-0.002	3811952	0.50000	0.54	0.00- 20.00	283.04	BA
3.928	3.929	-0.001	1635133	0.50000	0.54	0.00- 20.00	121.41	BA
3.993	3.995	-0.002	1082677	0.50000	0.53	0.00- 20.00	80.39	BA
Average of Peak Amounts =					0.53400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5673408	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\040218.b\040218016.D

Date : 02-APR-2018 18:23

Client ID: 1242-CCV

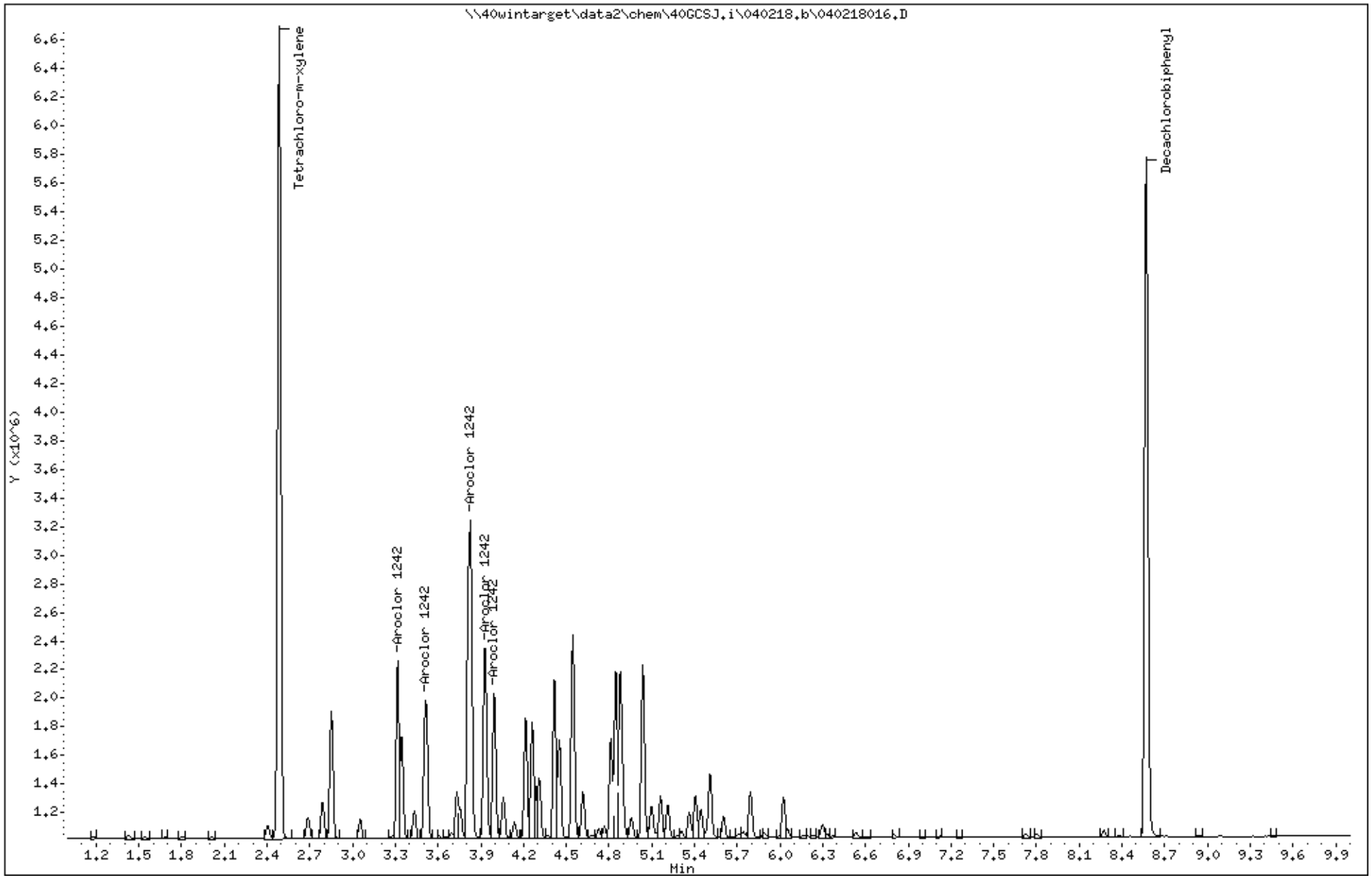
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

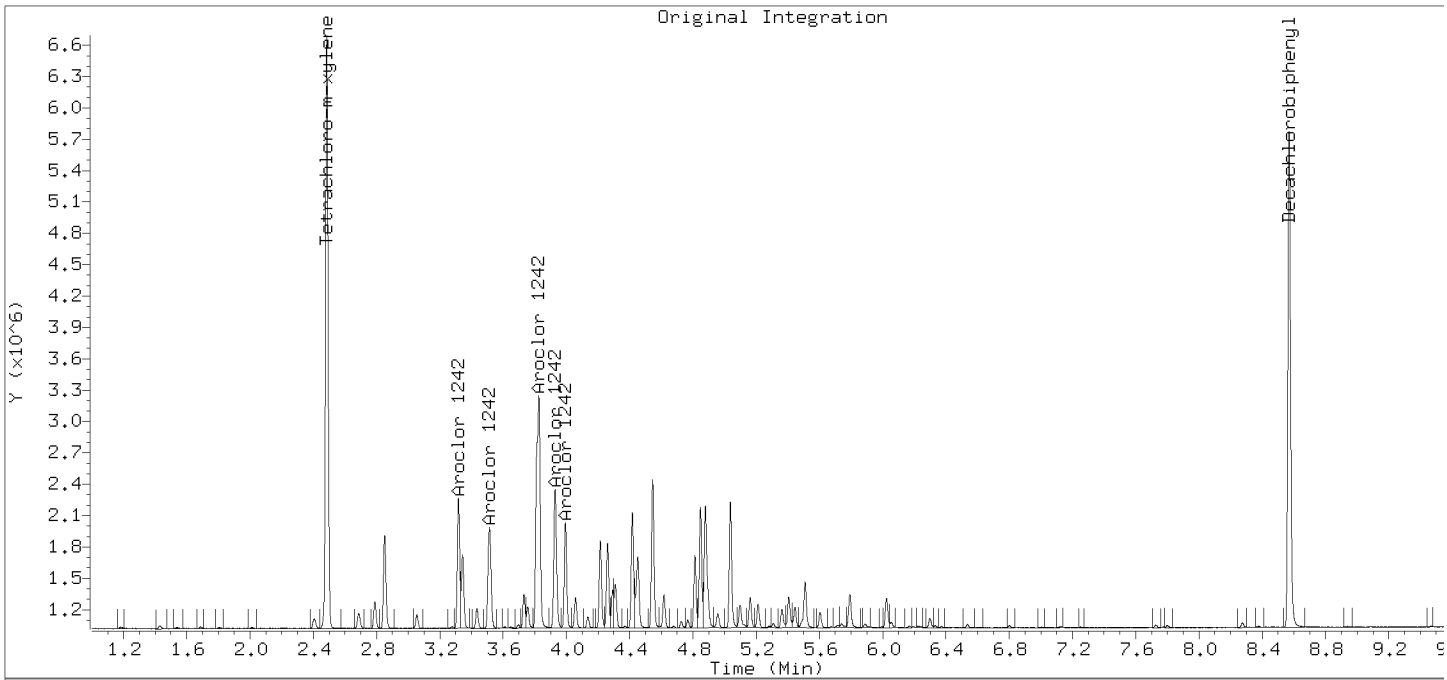
Operator: BLM

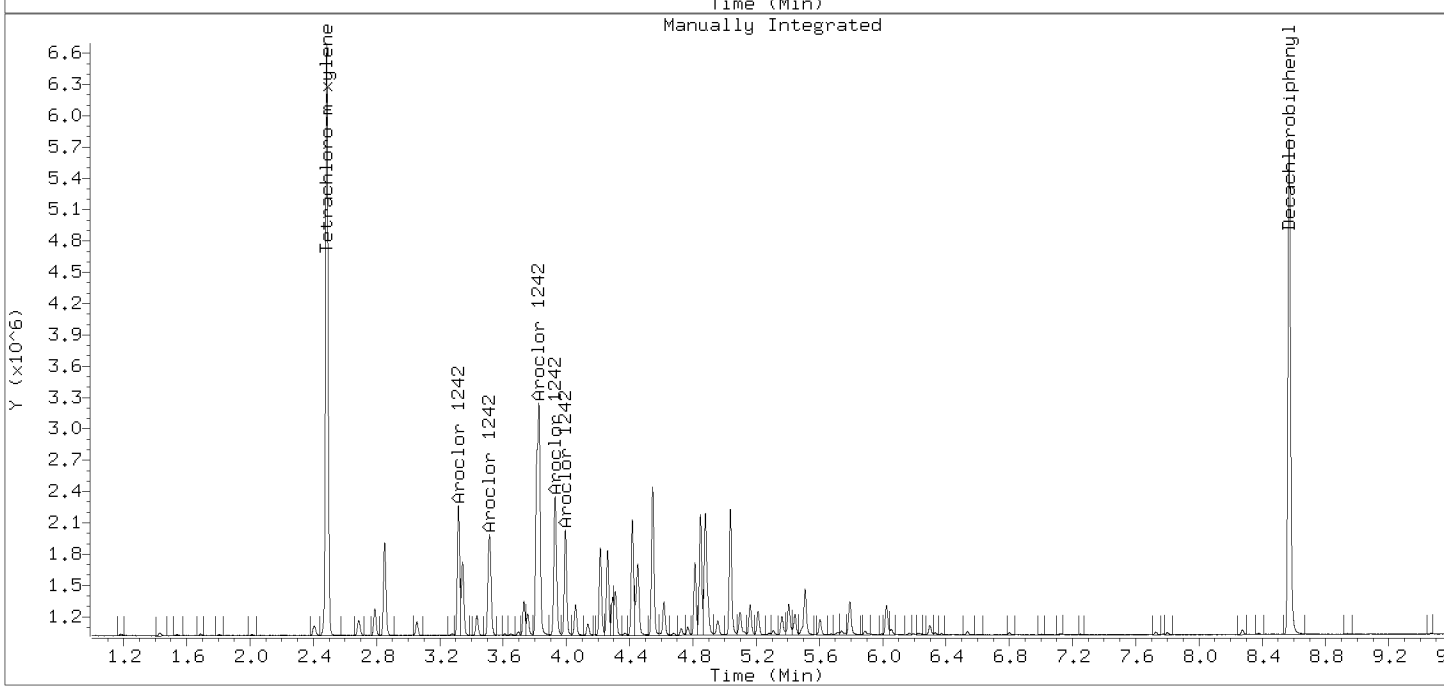
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 02-APR-2018 18:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Tetrachloro-m-xylene	6301500	6301500	
Decachlorobiphenyl	5673408	5673408	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 02-APR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22052	17128	0.777	0.04		
1.429	39603	29947	0.756	0.08		
1.537	20828	14399	0.691	0.04		
1.688	29510	25175	0.853	0.06		
2.012	13828	11937	0.863	0.03		
2.405	27850	19790	0.711	0.06		
2.485	5959173	5437475	0.912	13.82	$ 2 Tetrachloro-m-xylene	
2.685	32091	25649	0.799	0.07		
2.788	116135	106783	0.919	0.25		
2.851	195537	170907	0.874	0.43		
3.028	12233	11292	0.923	0.02		
3.054	63477	55440	0.873	0.14		
3.317	707001	684223	0.968	1.58		
3.344	308017	284395	0.923	0.68		
3.435	63608	58335	0.917	0.14		
3.515	594372	428466	0.721	1.32		
3.608	17162	16798	0.979	0.03		
3.697	11002	9406	0.855	0.02		
3.732	134444	129052	0.960	0.30		
3.755	65617	56401	0.860	0.14		
3.814	956858	1216290	1.271	2.13		
3.826	1443794	1280141	0.887	3.22		
3.930	914861	689739	0.754	2.04		
3.994	599034	553426	0.924	1.33		
4.058	353266	314298	0.890	0.78		
4.136	150436	132681	0.882	0.33		
4.215	1503073	1366230	0.909	3.36		
4.261	1198097	1113215	0.929	2.67	6 Aroclor 1248	BA
4.292	495989	504325	1.017	1.10		
4.309	539133	495525	0.919	1.20		
4.417	1817922	1664956	0.916	4.06		
4.452	920397	795514	0.864	2.05		
4.546	2091521	1885035	0.901	4.67	6 Aroclor 1248	BA
4.617	484697	452646	0.934	1.08		
4.679	32386	21683	0.670	0.07		
4.727	64332	50168	0.780	0.14		
4.768	114614	101997	0.890	0.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.813	1031162	1002840	0.973	2.30	6 Aroclor 1248
4.848	1994394	1831863	0.919	4.45	
4.879	2609515	1695646	0.650	5.83	6 Aroclor 1248
4.956	308550	254285	0.824	0.68	
5.037	1841200	1674646	0.910	4.11	6 Aroclor 1248
5.098	604752	526563	0.871	1.35	
5.162	782463	706380	0.903	1.74	
5.212	564314	511343	0.906	1.26	
5.284	40024	40519	1.012	0.08	
5.309	125896	102680	0.816	0.28	
5.363	494049	422677	0.856	1.10	
5.407	833030	707170	0.849	1.86	
5.447	508914	428696	0.842	1.13	
5.509	1386736	1111460	0.801	3.10	
5.604	401905	344467	0.857	0.89	
5.674	47715	41488	0.869	0.10	
5.717	80792	62624	0.775	0.18	
5.739	105085	88022	0.838	0.23	
5.762	27795	40140	1.444	0.06	
5.792	941551	744147	0.790	2.10	
5.887	105731	77922	0.737	0.23	
5.995	28114	29047	1.033	0.06	
6.023	774625	654180	0.845	1.73	
6.055	181866	135689	0.746	0.40	
6.168	96189	54260	0.564	0.21	
6.224	54322	30561	0.563	0.12	
6.299	240606	203616	0.846	0.53	
6.331	51367	39747	0.774	0.11	
6.371	43109	30617	0.710	0.09	
6.439	24976	12412	0.497	0.05	
6.509	41626	38647	0.928	0.09	
6.534	97221	64713	0.666	0.21	
6.662	13391	9369	0.700	0.02	
6.717	39487	35474	0.898	0.08	
6.760	21598	17867	0.827	0.04	
6.802	41001	37494	0.914	0.09	
6.840	15937	12007	0.753	0.03	
6.943	10076	8518	0.845	0.02	
7.004	76608	64897	0.847	0.17	
7.125	24748	15456	0.625	0.05	
7.251	32024	24580	0.768	0.07	
7.389	31070	26637	0.857	0.06	
7.441	35001	28078	0.802	0.07	
7.690	16305	15264	0.936	0.03	
7.730	29131	24851	0.853	0.06	
7.798	16373	18270	1.116	0.03	
7.902	28080	23903	0.851	0.06	
8.273	64174	52352	0.816	0.14	
8.378	29030	16365	0.564	0.06	
8.571	5477457	4446899	0.812	12.24	$ 12 Decachlorobiphenyl
8.723	9325	7327	0.786	0.02	
8.941	29913	20056	0.670	0.06	
9.463	46199	25908	0.561	0.10	
9.961	51582	32940	0.639	0.11	
	44722056	38904446		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 02-APR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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: 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	5959173	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1198097	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2091520	0.50000	0.50	0.00- 20.00	174.57	BA
4.812	4.812	0.000	1031162	0.50000	0.51	0.00- 20.00	86.07	BA
4.878	4.879	-0.001	2609514	0.50000	0.52	0.00- 20.00	217.80	BA
5.036	5.038	-0.002	1841200	0.50000	0.51	0.00- 20.00	153.68	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5477457	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\40GCSJ.i\040218.b\040218028.D

Date : 02-APR-2018 21:33

Client ID: 1248-CCV

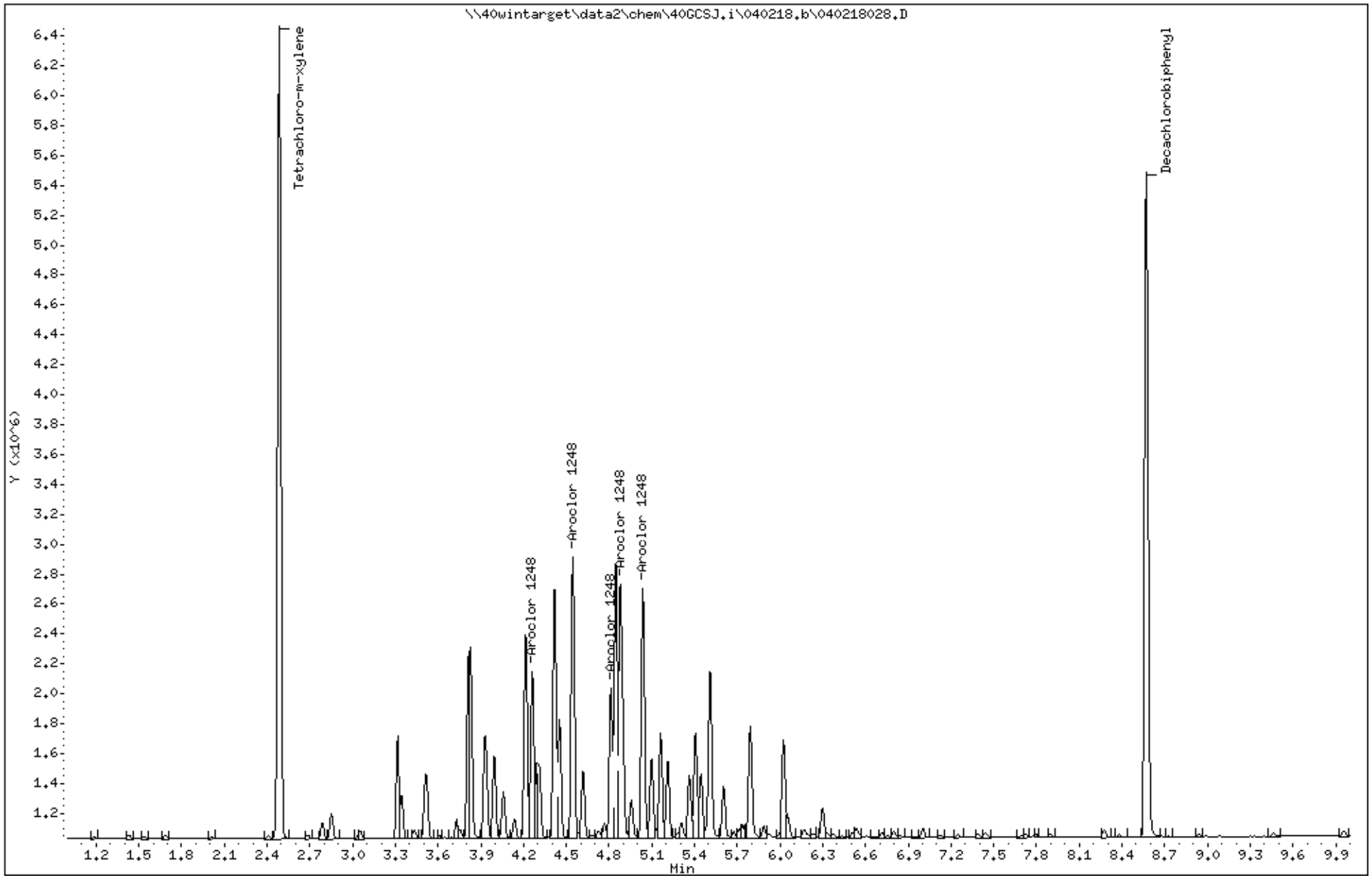
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

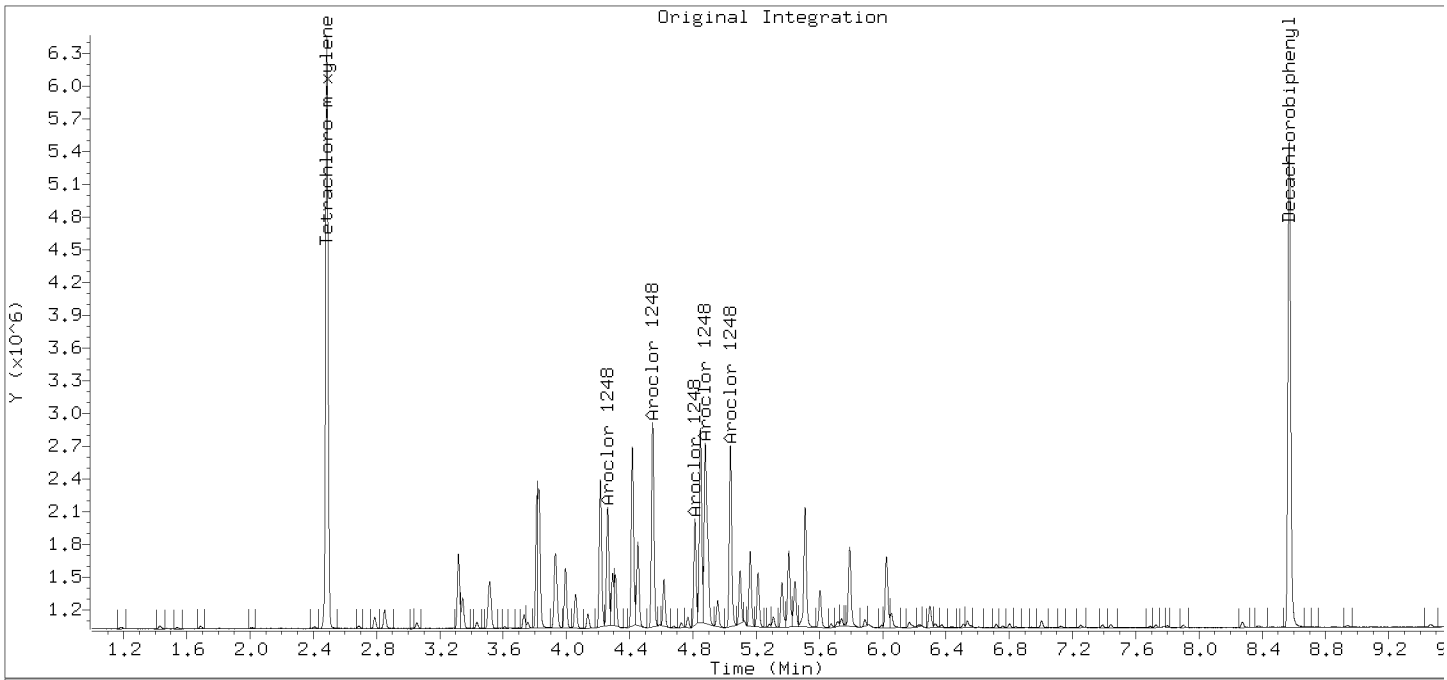
Operator: BLM

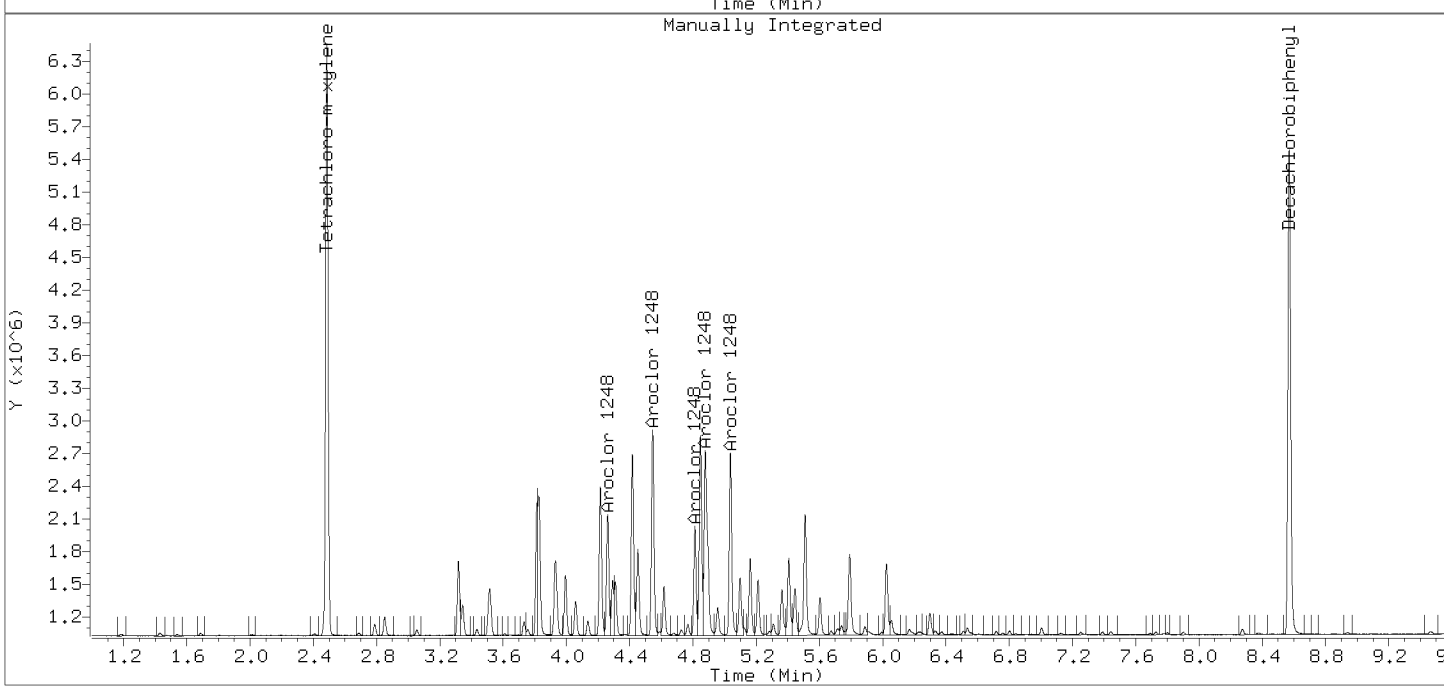
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 02-APR-2018 21:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Tetrachloro-m-xylene	5959173	5959173	
Decachlorobiphenyl	5477457	5477457	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218034.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 02-APR-2018 23:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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
1.428	35812	31601	0.882	0.06		
1.535	17423	15239	0.875	0.03		
1.687	36003	28595	0.794	0.06		
2.484	6172255	5793375	0.939	11.59	$ 2 Tetrachloro-m-xylene	
2.576	11980	7115	0.594	0.02		
2.786	99974	85878	0.859	0.18		
2.852	28206	19224	0.682	0.05		
3.053	17864	15499	0.868	0.03		
3.317	36550	31062	0.850	0.06		
3.342	20041	17900	0.893	0.03		
3.511	35134	21717	0.618	0.06		
3.612	25499	18054	0.708	0.04		
3.733	24692	13339	0.540	0.04		
3.816	110071	59095	0.537	0.19		
3.934	70830	47621	0.672	0.12		
3.993	30104	25241	0.838	0.05		
4.057	23111	20706	0.896	0.04		
4.135	9503	9327	0.981	0.01		
4.214	1281607	1201129	0.937	2.31		
4.261	349502	329347	0.942	0.63		
4.292	66587	49219	0.739	0.12		
4.416	788570	758103	0.961	1.42		
4.453	75744	70789	0.935	0.13		
4.546	355521	333878	0.939	0.64		
4.590	16022	16442	1.026	0.02		
4.616	61673	58256	0.945	0.11		
4.682	21065	16604	0.788	0.03		
4.733	10709	9527	0.890	0.01		
4.767	21942	20788	0.947	0.03		
4.812	298998	292266	0.977	0.53		
4.847	1159010	1080855	0.933	2.09		
4.894	2493556	2001002	0.802	4.50		
4.956	413615	354423	0.857	0.74		
5.037	251109	229945	0.916	0.45		
5.099	1471241	1237767	0.841	2.65		
5.161	2707375	2393333	0.884	4.88	7 Aroclor 1254	BA
5.211	1248732	1108544	0.888	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	61520	62262	1.012	0.11	
5.309	229016	200250	0.874	0.41	
5.362	1078805	996637	0.924	1.94	
5.406	2243401	1974773	0.880	4.05	7 Aroclor 1254
5.445	781887	685050	0.876	1.41	
5.477	280659	265007	0.944	0.50	
5.509	4031133	3590307	0.891	7.27	7 Aroclor 1254
5.576	38264	35557	0.929	0.06	
5.603	569865	505990	0.888	1.02	
5.674	365721	328446	0.898	0.66	
5.712	546787	360039	0.658	0.98	
5.740	359499	282308	0.785	0.64	
5.790	4094924	3096015	0.756	7.39	
5.884	372153	273009	0.734	0.67	
5.926	185497	121710	0.656	0.33	
5.993	337219	319314	0.947	0.60	
6.025	2555208	2115879	0.828	4.61	7 Aroclor 1254
6.054	1876276	1547714	0.825	3.38	
6.168	743365	621431	0.836	1.34	
6.227	285128	302637	1.061	0.51	
6.239	349757	298127	0.852	0.63	
6.298	3408543	2920582	0.857	6.15	7 Aroclor 1254
6.331	613322	543606	0.886	1.10	
6.373	355000	283604	0.799	0.64	
6.436	81157	50849	0.627	0.14	
6.484	16412	18031	1.099	0.02	
6.510	123232	129366	1.050	0.22	
6.535	1167731	887415	0.760	2.10	
6.604	167657	135478	0.808	0.30	
6.660	31404	25138	0.800	0.05	
6.717	225778	190317	0.843	0.40	
6.758	133358	120012	0.900	0.24	
6.800	640437	546856	0.854	1.15	
6.842	177260	115813	0.653	0.32	
6.942	60038	51259	0.854	0.10	
7.003	458415	377387	0.823	0.82	
7.068	13154	12898	0.981	0.02	
7.119	18630	11632	0.624	0.03	
7.251	369559	329707	0.892	0.66	
7.281	82157	66210	0.806	0.14	
7.391	21123	16167	0.765	0.03	
7.441	30410	23147	0.761	0.05	
7.553	29572	17188	0.581	0.05	
7.690	17947	15410	0.859	0.03	
7.727	31310	25820	0.825	0.05	
7.798	23407	18505	0.791	0.04	
7.901	27043	21790	0.806	0.04	
8.274	59016	46369	0.786	0.10	
8.380	15932	10048	0.631	0.02	
8.570	5641671	4677391	0.829	10.18	$ 12 Decachlorobiphenyl
8.939	18343	11031	0.601	0.03	
9.466	22036	12991	0.590	0.03	
9.959	23227	17434	0.751	0.04	
	55387993	47534718		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218034.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 02-APR-2018 23:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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			
2.484	2.484	0.000	6172255	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2707375	0.50000	0.52	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2243400	0.50000	0.52	0.00- 20.00	82.86	BA
5.509	5.510	-0.001	4031133	0.50000	0.52	0.00- 20.00	148.89	BA
6.024	6.027	-0.003	2555207	0.50000	0.52	0.00- 20.00	94.38	BA
6.297	6.299	-0.002	3408542	0.50000	0.52	0.00- 20.00	125.90	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5641670	0.05000	0.051			

QC Flag Legend

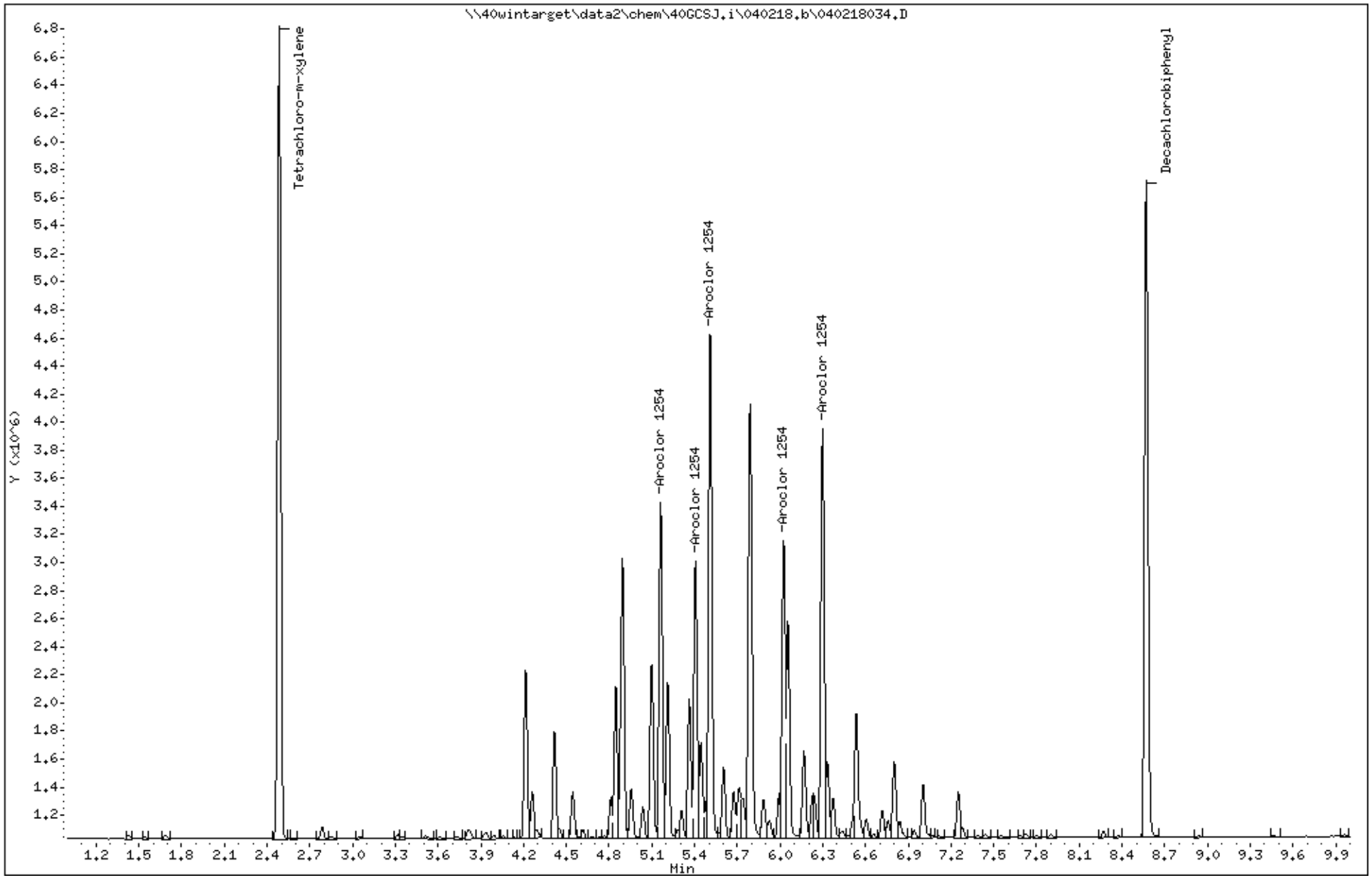
M - Compound response manually integrated.

Review Codes Legend

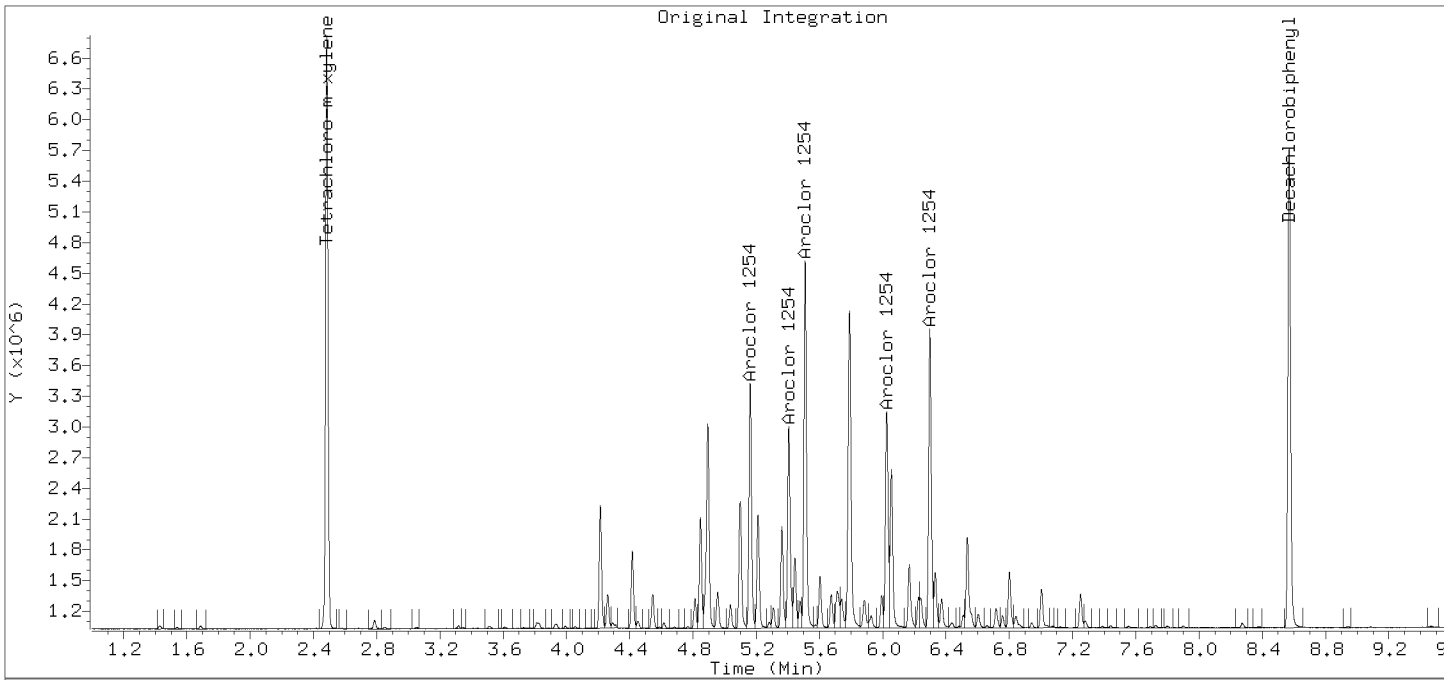
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

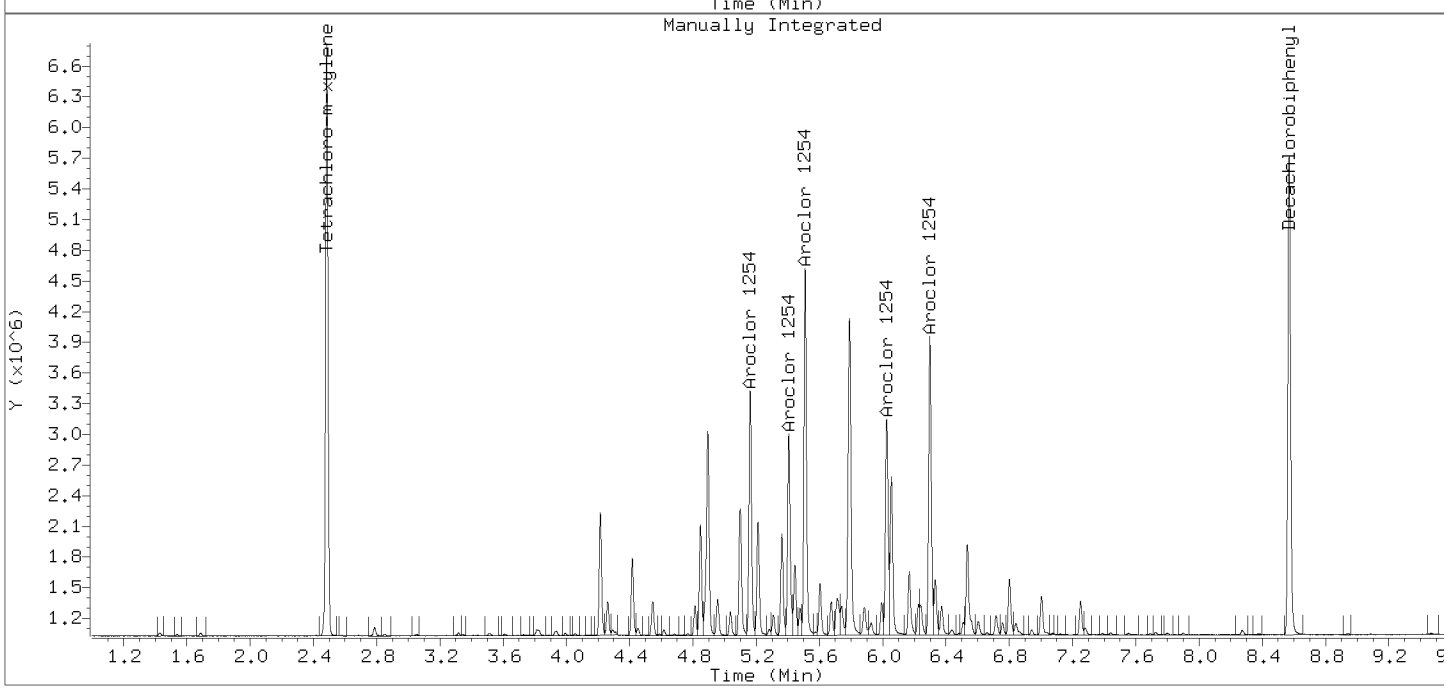
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218034.D
Date : 02-APR-2018 23:08
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218034.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 02-APR-2018 23:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2703499	2707375	BA
Aroclor 1254	2703499	2707375	BA
Aroclor 1254	2703499	2707375	BA
Aroclor 1254	2703499	2707375	BA
Aroclor 1254	2703499	2707375	BA
Tetrachloro-m-xylene	6172255	6172255	
Decachlorobiphenyl	5641670	5641670	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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
1.184	43084	30605	0.710	0.09		
1.429	40661	29962	0.737	0.09		
1.538	17988	14319	0.796	0.04		
1.684	24696	16928	0.685	0.05		
2.013	29408	18131	0.617	0.06		
2.405	25009	17676	0.707	0.05		
2.485	6083796	5556709	0.913	14.39	$ 2 Tetrachloro-m-xylene	
2.688	32058	24543	0.766	0.07		
2.788	121237	107870	0.890	0.27		
2.851	190109	170028	0.894	0.43		
3.056	47080	48404	1.028	0.10		
3.317	721819	682569	0.946	1.64		
3.343	304974	283240	0.929	0.69		
3.434	69423	60425	0.870	0.15		
3.515	591638	432013	0.730	1.34		
3.611	16922	15274	0.903	0.03		
3.647	9689	9303	0.960	0.02		
3.686	11794	10295	0.873	0.02		
3.732	130418	130266	0.999	0.29		
3.755	67050	55984	0.835	0.15		
3.813	1027331	1192583	1.161	2.34		
3.825	1286040	1225650	0.953	2.93		
3.930	892027	677970	0.760	2.03		
3.994	589843	542527	0.920	1.34		
4.058	355642	318666	0.896	0.81		
4.136	152958	137052	0.896	0.34		
4.215	1510796	1402957	0.929	3.44		
4.261	1199509	1133497	0.945	2.73	6 Aroclor 1248	BA
4.293	479062	500736	1.045	1.09		
4.310	539246	501665	0.930	1.23		
4.417	1814093	1652799	0.911	4.13		
4.452	902295	786079	0.871	2.05		
4.545	2065292	1852407	0.897	4.71	6 Aroclor 1248	BA
4.591	31811	35971	1.131	0.07		
4.617	479724	444084	0.926	1.09		
4.680	33633	22274	0.662	0.07		
4.727	64420	47307	0.734	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	107232	103938	0.969	0.24	
4.813	971875	927152	0.954	2.21	6 Aroclor 1248
4.847	1887011	1740497	0.922	4.30	
4.878	2488943	1580601	0.635	5.67	6 Aroclor 1248
4.957	316354	251435	0.795	0.72	
5.037	1704139	1556762	0.914	3.88	6 Aroclor 1248
5.099	661472	526665	0.796	1.50	
5.161	776116	698233	0.900	1.77	
5.212	554151	484156	0.874	1.26	
5.284	41186	37657	0.914	0.09	
5.309	124189	102187	0.823	0.28	
5.363	473082	401354	0.848	1.07	
5.407	809581	681338	0.842	1.84	
5.445	490285	425460	0.868	1.11	
5.509	1321954	1109312	0.839	3.01	
5.604	388705	328020	0.844	0.88	
5.673	52243	41687	0.798	0.11	
5.716	86551	61225	0.707	0.19	
5.740	121977	83422	0.684	0.27	
5.792	867892	689374	0.794	1.98	
5.888	126525	72081	0.570	0.28	
5.993	30397	30130	0.991	0.06	
6.024	702388	604634	0.861	1.60	
6.056	164757	131937	0.801	0.37	
6.170	83511	52881	0.633	0.19	
6.228	56285	28679	0.510	0.12	
6.300	229108	187878	0.820	0.52	
6.332	50354	38475	0.764	0.11	
6.373	37058	30465	0.822	0.08	
6.434	22583	13925	0.617	0.05	
6.511	42769	37895	0.886	0.09	
6.536	90709	61689	0.680	0.20	
6.660	12896	11575	0.898	0.02	
6.717	41019	33200	0.809	0.09	
6.758	18111	17766	0.981	0.04	
6.803	34475	29004	0.841	0.07	
6.845	13572	10592	0.780	0.03	
6.943	12386	9216	0.744	0.02	
7.004	68093	56803	0.834	0.15	
7.120	12521	12131	0.969	0.02	
7.252	26935	23067	0.856	0.06	
7.388	33622	27487	0.818	0.07	
7.441	34978	28967	0.828	0.07	
7.688	19244	11893	0.618	0.04	
7.728	34381	30871	0.898	0.07	
7.769	12886	11515	0.894	0.02	
7.799	28940	24815	0.857	0.06	
7.902	33369	22501	0.674	0.07	
8.276	66128	53504	0.809	0.15	
8.377	23576	19359	0.821	0.05	
8.571	5317792	4655341	0.875	12.13	$ 12 Decachlorobiphenyl
8.940	27645	15648	0.566	0.06	
9.469	31534	19033	0.604	0.07	
9.840	9894	8744	0.884	0.02	
9.872	15550	11307	0.727	0.03	
9.954	16050	12463	0.777	0.03	
	43829555	38466714		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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			
2.484	2.484	0.000	6083796	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1199509	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2065292	0.50000	0.50	0.00- 20.00	172.18	BA
4.812	4.812	0.000	971874	0.50000	0.48	0.00- 20.00	81.02	BA
4.878	4.879	-0.001	2488942	0.50000	0.49	0.00- 20.00	207.50	BA
5.036	5.038	-0.002	1704138	0.50000	0.47	0.00- 20.00	142.07	BA
Average of Peak Amounts =					0.49000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5317792	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\040518.b\040518004.D

Date : 05-APR-2018 14:07

Client ID: 1248-CCV

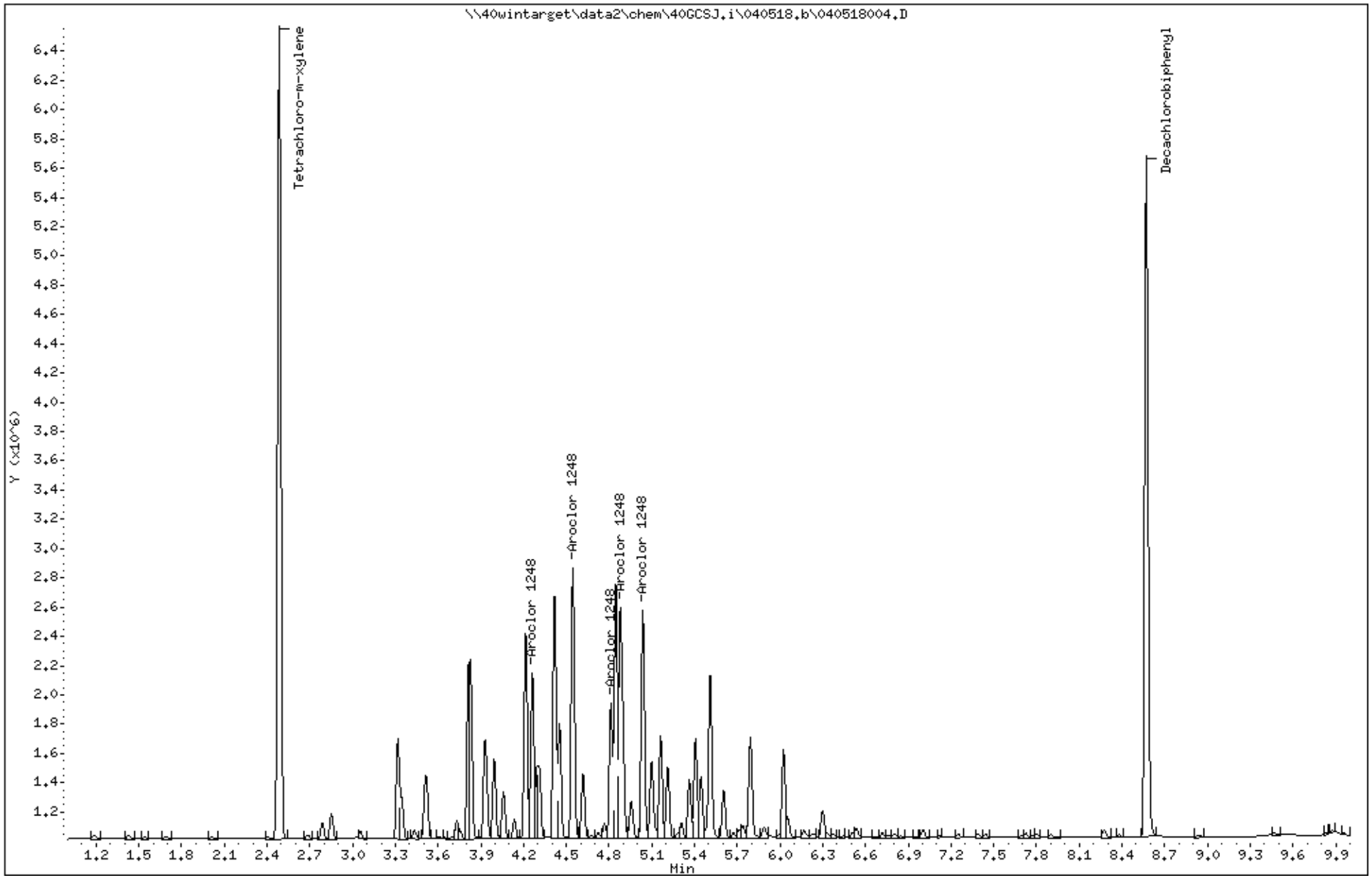
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

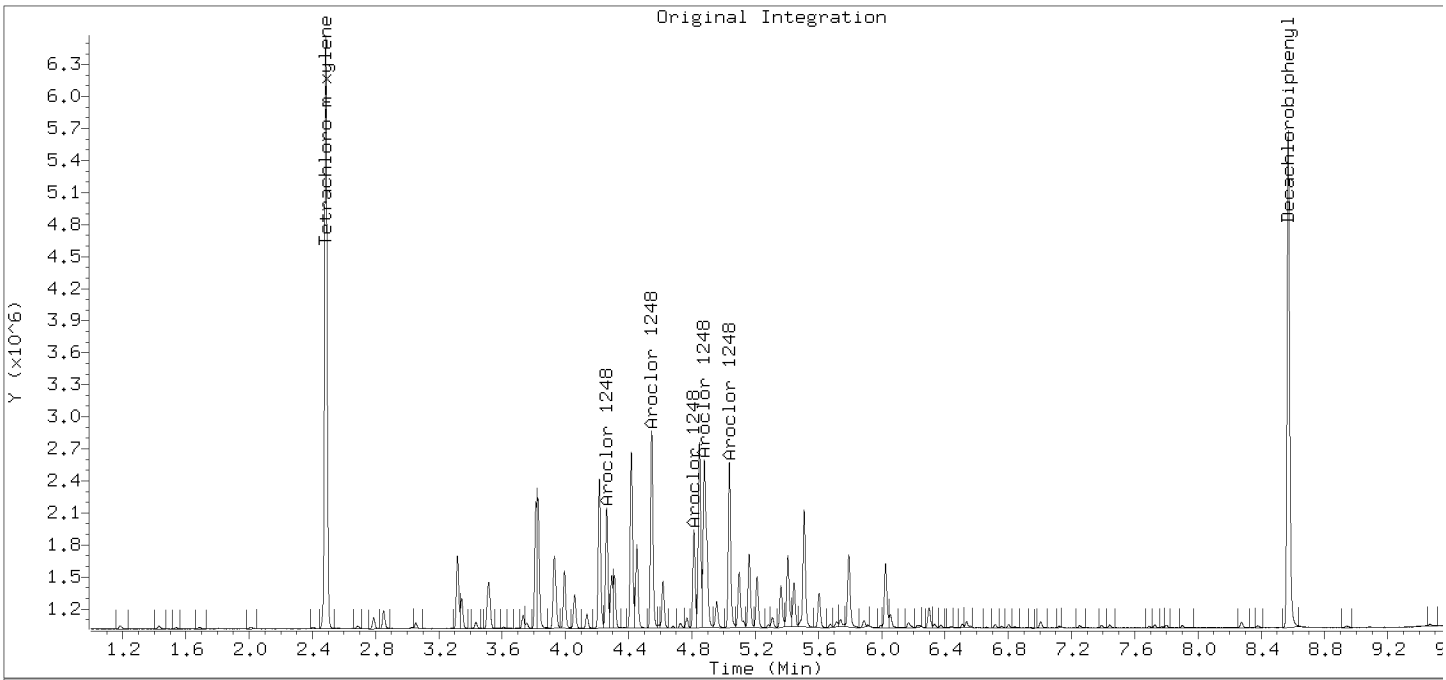
Operator: BLM

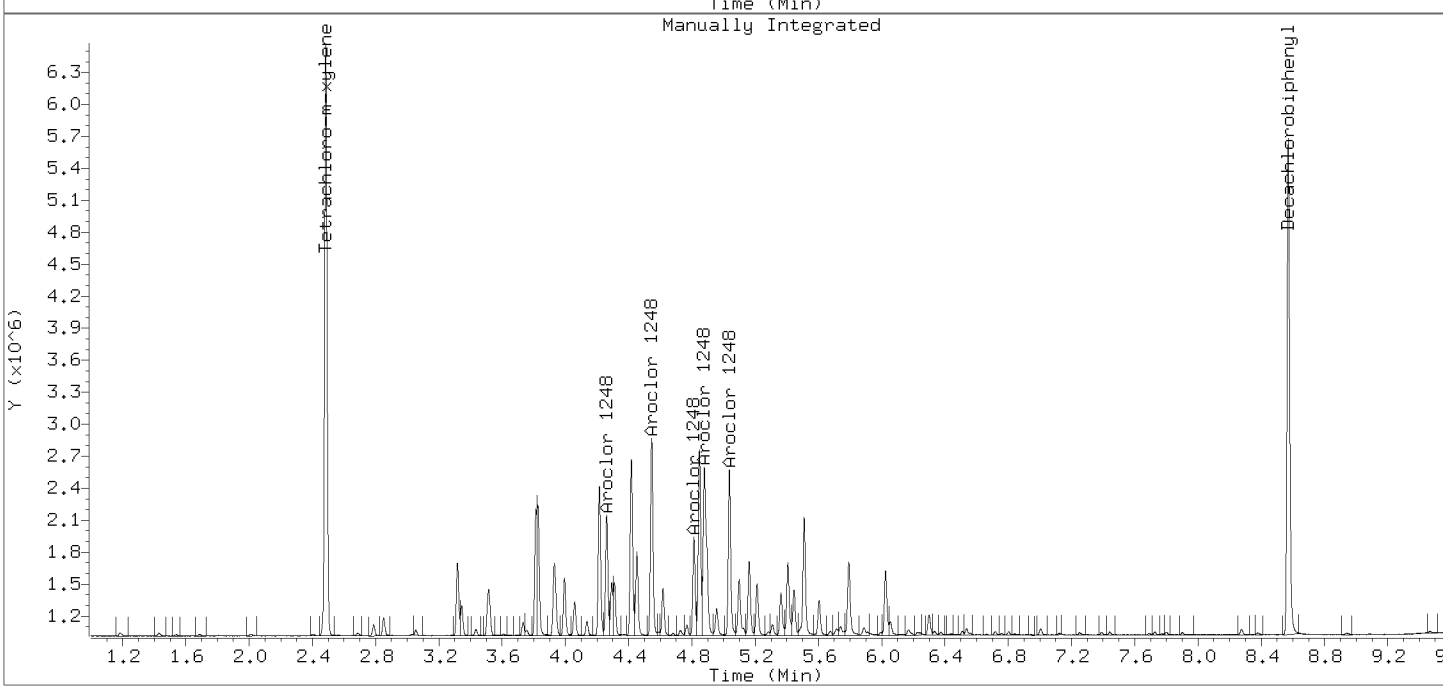
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 05-APR-2018 14:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Tetrachloro-m-xylene	6083796	6083796	
Decachlorobiphenyl	5317792	5317792	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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	38446	28990	0.754	0.07		
1.429	39738	32973	0.830	0.07		
1.534	17554	14865	0.847	0.03		
1.688	23749	19046	0.802	0.04		
2.012	24631	17440	0.708	0.04		
2.484	6233332	5850488	0.939	11.91	$ 2 Tetrachloro-m-xylene	
2.788	88329	83760	0.948	0.16		
2.851	23512	20471	0.871	0.04		
3.027	10203	11927	1.169	0.01		
3.050	17469	15964	0.914	0.03		
3.316	30799	28414	0.923	0.05		
3.345	16961	17804	1.050	0.03		
3.512	23537	19624	0.834	0.04		
3.608	21117	17834	0.845	0.03		
3.731	10808	11029	1.020	0.01		
3.814	97647	57642	0.590	0.17		
3.937	61882	43576	0.704	0.11		
3.995	32879	28776	0.875	0.06		
4.054	28897	21436	0.742	0.05		
4.135	9258	9871	1.066	0.01		
4.214	1280127	1205606	0.942	2.35		
4.261	347590	333228	0.959	0.64		
4.292	73015	50915	0.697	0.13		
4.417	783202	740269	0.945	1.44		
4.453	76939	71868	0.934	0.14		
4.545	341206	322530	0.945	0.62		
4.617	52258	52140	0.998	0.09		
4.680	16281	16063	0.987	0.02		
4.770	17083	18359	1.075	0.03		
4.813	284084	274405	0.966	0.52		
4.848	1125230	1058594	0.941	2.07		
4.894	2503952	1967047	0.786	4.61		
4.956	405543	354769	0.875	0.74		
5.036	238828	217685	0.911	0.43		
5.099	1462017	1257373	0.860	2.69		
5.162	2680270	2421251	0.903	4.93	7 Aroclor 1254	BA
5.212	1231949	1097890	0.891	2.26		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.284	59697	60855	1.019	0.10	
5.308	221640	199752	0.901	0.40	
5.362	1057849	961055	0.908	1.94	
5.407	2208829	1954345	0.885	4.06	7 Aroclor 1254
5.445	766001	665183	0.868	1.41	
5.477	281097	270081	0.961	0.51	
5.509	3983477	3497443	0.878	7.33	7 Aroclor 1254
5.604	557875	469260	0.841	1.02	
5.675	365888	326243	0.892	0.67	
5.711	550617	354333	0.644	1.01	
5.741	347719	284035	0.817	0.64	
5.790	3999432	3027750	0.757	7.36	
5.885	356190	269389	0.756	0.65	
5.926	195374	120478	0.617	0.35	
5.993	328201	310268	0.945	0.60	
6.026	2455055	2031037	0.827	4.52	7 Aroclor 1254
6.055	1867689	1516646	0.812	3.43	
6.169	720501	606633	0.842	1.32	
6.226	544314	296954	0.546	1.00	
6.299	3325422	2724014	0.819	6.12	7 Aroclor 1254
6.334	614116	532746	0.867	1.13	
6.374	348767	277565	0.796	0.64	
6.439	92737	50176	0.541	0.17	
6.511	119602	123477	1.032	0.22	
6.536	1128760	835300	0.740	2.07	
6.606	162322	125405	0.773	0.29	
6.661	29099	24882	0.855	0.05	
6.718	221779	185699	0.837	0.40	
6.759	129503	118869	0.918	0.23	
6.800	603447	491269	0.814	1.11	
6.843	174686	104242	0.597	0.32	
6.942	57301	50803	0.887	0.10	
7.005	445723	357209	0.801	0.82	
7.075	14960	15379	1.028	0.02	
7.252	325435	280396	0.862	0.59	
7.389	20515	18570	0.905	0.03	
7.445	29007	20980	0.723	0.05	
7.555	22024	16019	0.727	0.04	
7.694	18648	14678	0.787	0.03	
7.727	32443	27406	0.845	0.05	
7.777	9633	10217	1.061	0.01	
7.801	28317	21649	0.765	0.05	
7.902	18204	18004	0.989	0.03	
8.275	53969	44274	0.820	0.09	
8.380	21500	15168	0.706	0.03	
8.571	5557115	4661428	0.839	10.23	$ 12 Decachlorobiphenyl
8.940	21396	14907	0.697	0.03	
9.464	19682	15351	0.780	0.03	
9.957	20306	14332	0.706	0.03	
	54304184	46244076		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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			
2.484	2.484	0.000	6233332	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2680270	0.50000	0.51	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2208829	0.50000	0.51	0.00- 20.00	82.41	BA
5.509	5.510	-0.001	3983476	0.50000	0.51	0.00- 20.00	148.62	BA
6.026	6.027	-0.001	2455055	0.50000	0.50	0.00- 20.00	91.60	BA
6.298	6.299	-0.001	3325422	0.50000	0.51	0.00- 20.00	124.07	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5557115	0.05000	0.051			

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\040518.b\040518016.D

Date : 05-APR-2018 17:18

Client ID: 1254-CCV

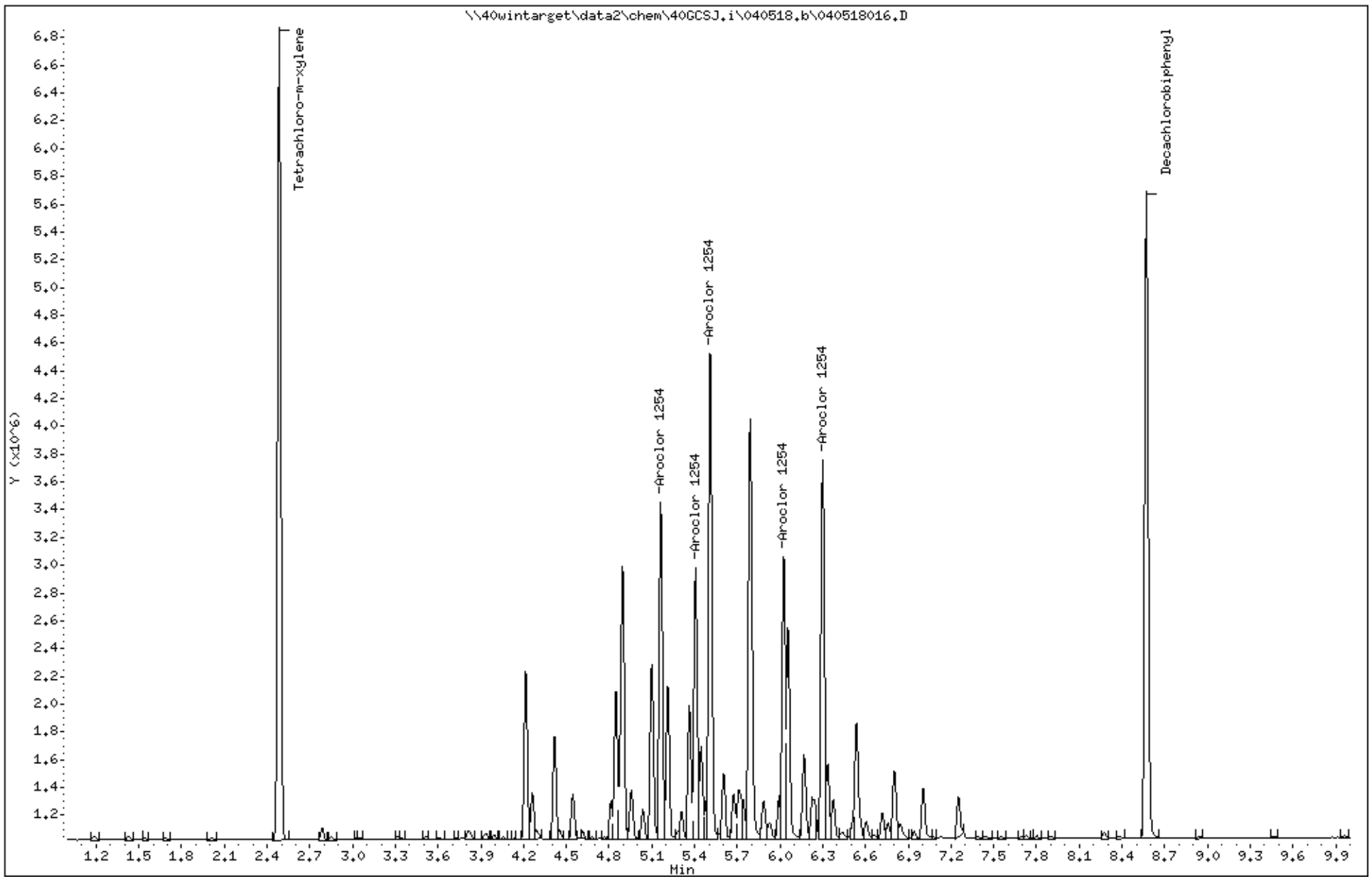
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518016.D (ManInt: AR1254.sub Orig: AR1248.sub)
Injection Date: 05-APR-2018 17:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 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: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	26524	20962	0.790	0.02		
1.431	40279	31068	0.771	0.04		
1.540	18687	13752	0.736	0.02		
1.686	31039	22697	0.731	0.03		
1.805	18549	15692	0.846	0.02		
2.014	16250	12687	0.781	0.01		
2.196	12704	8220	0.647	0.01		
2.408	153388	112370	0.733	0.16		
2.486	6576761	5819497	0.885	7.62	$ 2 Tetrachloro-m-xylene	
2.688	218530	174076	0.797	0.23		
2.790	332346	294448	0.886	0.35		
2.851	1218010	1088293	0.894	1.31		
3.055	184589	160131	0.868	0.19		
3.275	28615	21370	0.747	0.03		
3.318	1661242	1503796	0.905	1.79	5 Aroclor 1016	BA
3.344	960469	865911	0.902	1.03		
3.435	267939	241404	0.901	0.28		
3.514	1662361	1192095	0.717	1.79	5 Aroclor 1016	BA
3.611	24055	20212	0.840	0.02		
3.645	25827	17507	0.678	0.02		
3.697	45657	44679	0.979	0.04		
3.732	425301	423571	0.996	0.45		
3.757	281209	254582	0.905	0.30		
3.826	4762648	2782897	0.584	5.14	5 Aroclor 1016	BA
3.929	2029582	1651865	0.814	2.19	5 Aroclor 1016	BA
3.995	1363908	1270588	0.932	1.47	5 Aroclor 1016	BA
4.059	392098	351555	0.897	0.42		
4.137	153414	143624	0.936	0.16		
4.215	1200345	1095789	0.913	1.29		
4.261	1078283	1010685	0.937	1.16		
4.293	445750	453968	1.018	0.48		
4.310	570921	534791	0.937	0.61		
4.372	34739	26164	0.753	0.03		
4.418	1485039	1348038	0.908	1.60		
4.453	1101105	843441	0.766	1.18		
4.546	1886400	1716754	0.910	2.03		
4.591	27304	25222	0.924	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	424808	392006	0.923	0.45	
4.678	26918	20693	0.769	0.02	
4.729	68199	58011	0.851	0.07	
4.769	58856	54780	0.931	0.06	
4.814	343419	325423	0.948	0.37	
4.848	532779	506398	0.950	0.57	
4.895	1724929	1257837	0.729	1.86	
4.955	113045	87644	0.775	0.12	
5.037	100550	89815	0.893	0.10	
5.100	361163	307233	0.851	0.39	
5.163	1423544	1312298	0.922	1.53	
5.212	67541	54485	0.807	0.07	
5.307	14853	15473	1.042	0.01	
5.362	97731	87181	0.892	0.10	
5.407	409365	369921	0.904	0.44	
5.478	566699	526807	0.930	0.61	
5.510	987790	881995	0.893	1.06	
5.605	20395	16965	0.832	0.02	
5.675	1448172	1354359	0.935	1.56	
5.710	1049661	575135	0.548	1.13	
5.785	3573505	3091246	0.865	3.86	
5.882	241624	215745	0.893	0.26	
5.930	115727	94253	0.814	0.12	
5.994	602907	576942	0.957	0.65	
6.029	1372559	1351059	0.984	1.48	
6.056	3948296	3437019	0.871	4.26	
6.169	2590241	1609415	0.621	2.79	
6.256	594257	344869	0.580	0.64	
6.300	4789374	3835362	0.801	5.17	8 Aroclor 1260
6.334	698179	621004	0.889	0.75	
6.373	175778	137084	0.780	0.18	
6.431	492672	434394	0.882	0.53	
6.486	101218	132681	1.311	0.10	
6.510	2363091	2149821	0.910	2.55	
6.535	446821	481648	1.078	0.48	
6.560	1475465	1304351	0.884	1.59	
6.605	152836	128536	0.841	0.16	
6.660	459725	419717	0.913	0.49	
6.718	2527503	2306145	0.912	2.73	
6.760	1423158	1250089	0.878	1.53	
6.803	1169060	1024295	0.876	1.26	
6.838	218415	188620	0.864	0.23	
6.866	109210	92561	0.848	0.11	
6.913	157704	150079	0.952	0.17	
6.943	504270	455389	0.903	0.54	
7.005	5445908	4883049	0.897	5.88	8 Aroclor 1260
7.034	361975	351143	0.970	0.39	
7.075	167758	135921	0.810	0.18	
7.122	251007	207553	0.827	0.27	
7.252	2613847	2366081	0.905	2.82	8 Aroclor 1260
7.282	751367	600808	0.800	0.81	
7.389	1330285	1104095	0.830	1.43	
7.443	1587750	1369159	0.862	1.71	8 Aroclor 1260
7.552	117411	90183	0.768	0.12	
7.691	649802	560316	0.862	0.70	
7.729	109373	91806	0.839	0.11	
7.776	13308	16217	1.219	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.801	103145	74597	0.723	0.11	
7.901	1438385	1183223	0.823	1.55	8 Aroclor 1260
7.964	111125	80485	0.724	0.12	
8.275	400238	335068	0.837	0.43	
8.381	38179	24942	0.653	0.04	
8.572	6002208	5034228	0.839	6.48	$ 12 Decachlorobiphenyl
8.944	37272	23825	0.639	0.04	
9.090	10657	9721	0.912	0.01	
9.432	13728	13864	1.010	0.01	
9.467	47015	25808	0.549	0.05	
9.960	24723	19579	0.792	0.02	
	92532346	78342855		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 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: 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			
2.486	2.484	0.002	6576761	0.05000	0.053			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1661241	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1662360	0.50000	0.54	0.00- 20.00	100.07	BA
3.826	3.826	0.000	4762648	0.50000	0.54	0.00- 20.00	286.69	BA
3.929	3.929	0.000	2029581	0.50000	0.54	0.00- 20.00	122.17	BA
3.995	3.994	0.001	1363908	0.50000	0.52	0.00- 20.00	82.10	BA
Average of Peak Amounts =					0.53600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4789374	0.50000	0.54	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5445907	0.50000	0.54	0.00- 20.00	113.71	CO
7.251	7.251	0.000	2613847	0.50000	0.55	0.00- 20.00	54.58	CO
7.442	7.443	-0.001	1587749	0.50000	0.54	0.00- 20.00	33.15	CO
7.900	7.901	-0.001	1438384	0.50000	0.54	0.00- 20.00	30.03	CO
Average of Peak Amounts =					0.54200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	6002207	0.05000	0.055			

QC Flag Legend

M - Compound response manually integrated.

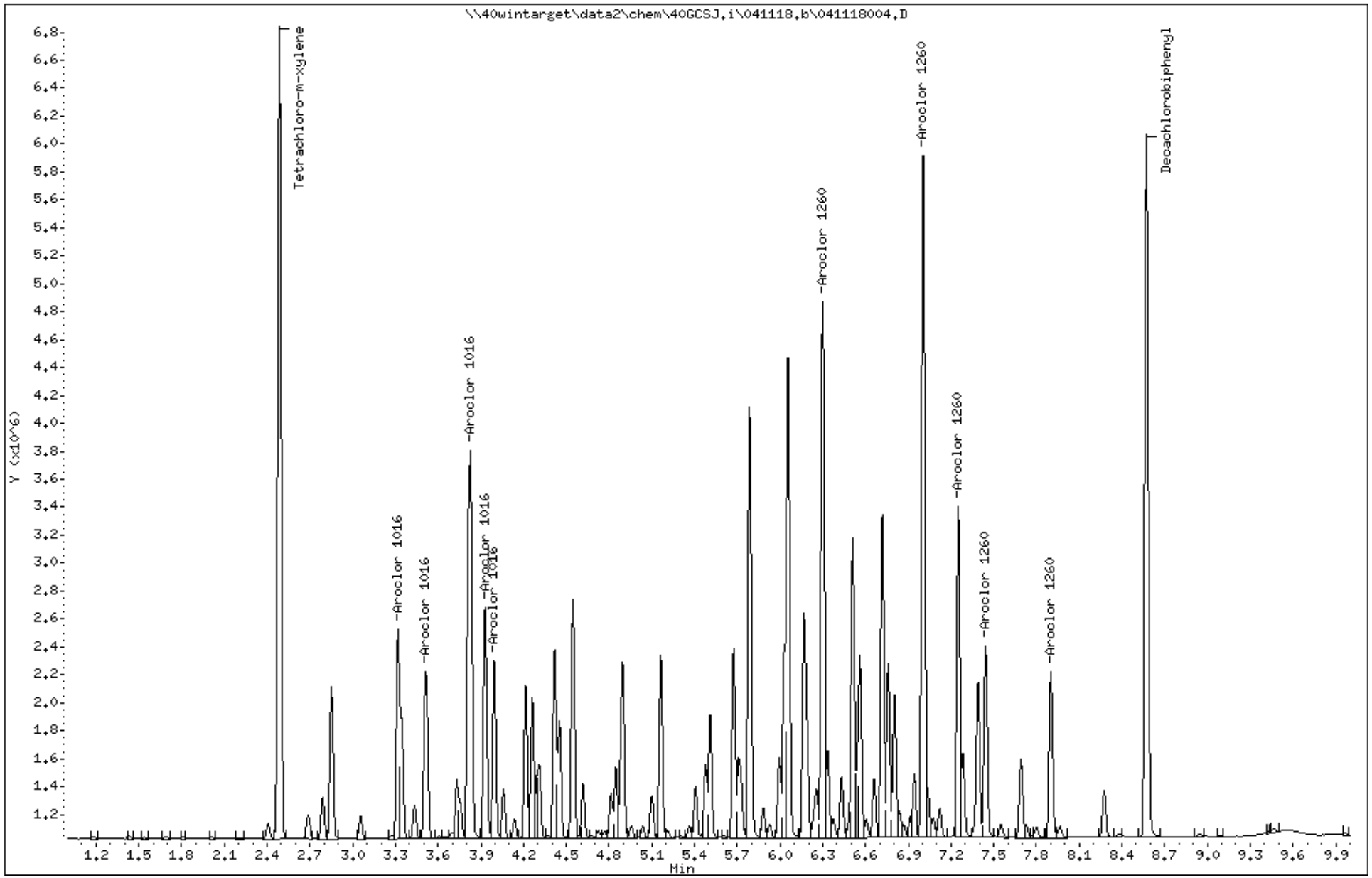
QC Flag Legend

Review Codes Legend

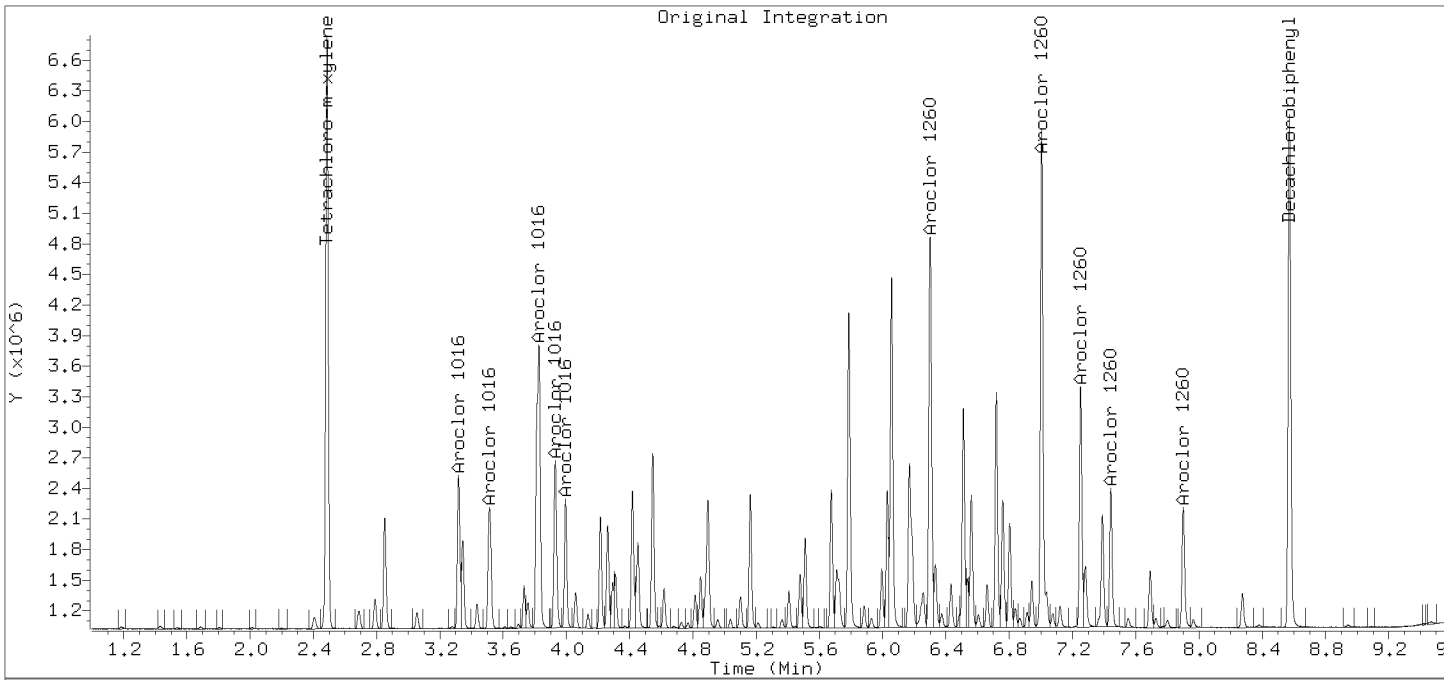
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

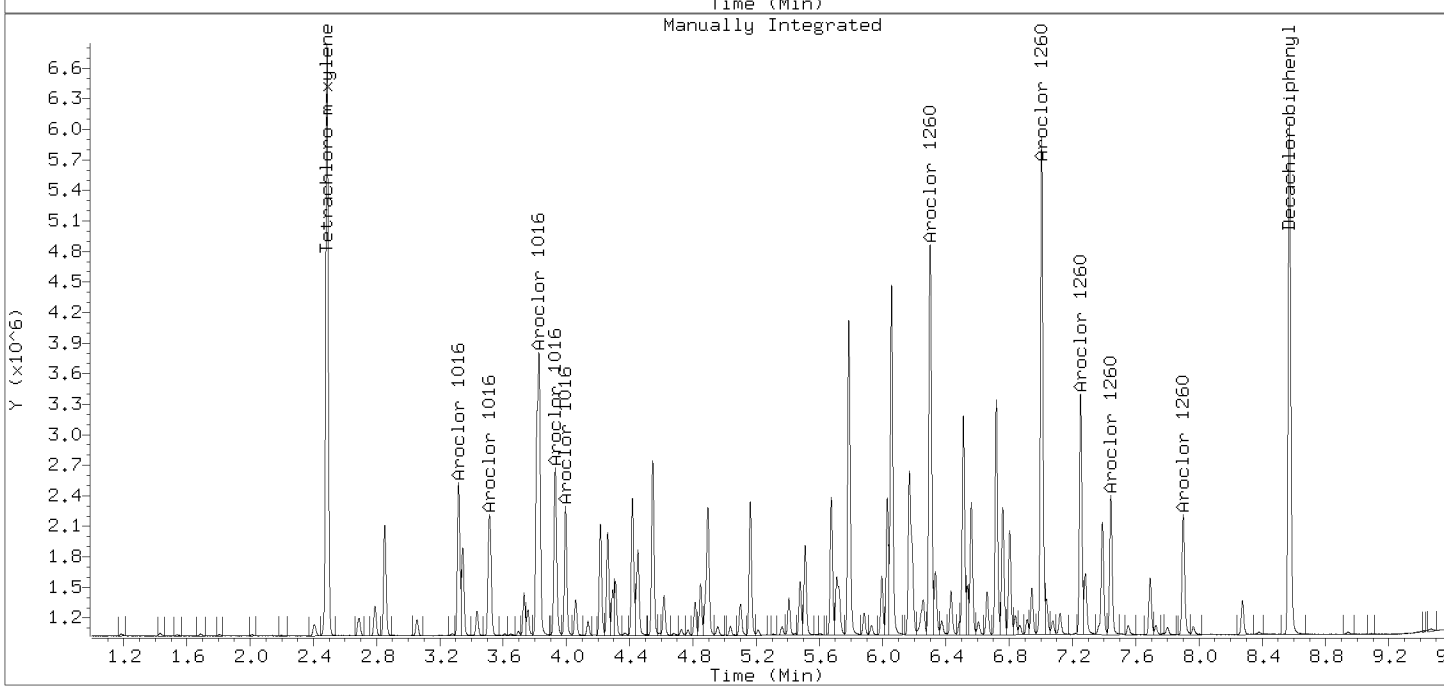
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Date : 11-APR-2018 14:32
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 11-APR-2018 14:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Tetrachloro-m-xylene	6576761	6576761	
Decachlorobiphenyl	6002207	6002207	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 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: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	26783	19474	0.727	0.14		
1.428	35928	31888	0.888	0.19		
1.541	29116	15364	0.528	0.16		
1.685	23996	19947	0.831	0.13		
1.805	522623	441378	0.845	2.88	1 Aroclor 1221	BA
2.011	21345	13632	0.639	0.11		
2.162	12106	9820	0.811	0.06		
2.197	164599	139838	0.850	0.90		
2.407	271402	194845	0.718	1.49	1 Aroclor 1221	BA
2.484	6155063	5709632	0.928	34.24	$ 2 Tetrachloro-m-xylene	BA
2.688	726952	585111	0.805	4.01	1 Aroclor 1221	BA
2.789	558274	519926	0.931	3.08	1 Aroclor 1221	BA
2.851	1718600	1482514	0.863	9.48	1 Aroclor 1221	BA
3.030	13200	11857	0.898	0.07		
3.054	35047	29120	0.831	0.19		
3.280	124541	93232	0.749	0.68		
3.324	405341	231834	0.572	2.23		
3.435	35232	31360	0.890	0.19		
3.514	145429	106464	0.732	0.80		
3.606	16114	15709	0.975	0.08		
3.695	11301	10851	0.960	0.06		
3.731	45895	46277	1.008	0.25		
3.756	44733	38798	0.867	0.24		
3.827	352183	208190	0.591	1.94		
3.929	175428	137565	0.784	0.96		
3.995	107924	96724	0.896	0.59		
4.057	22976	18235	0.794	0.12		
4.215	33852	33823	0.999	0.18		
4.259	34525	33976	0.984	0.19		
4.291	16102	16958	1.053	0.08		
4.310	20522	18956	0.924	0.11		
4.417	43044	40617	0.944	0.23		
4.442	55020	30274	0.550	0.30		
4.545	55754	50356	0.903	0.30		
4.616	14492	16587	1.145	0.07		
4.810	25074	19972	0.797	0.13		
4.848	38531	35460	0.920	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.878	56099	37752	0.673	0.30	
5.038	41384	32776	0.792	0.22	
5.091	10405	7383	0.710	0.05	
5.218	9747	8044	0.825	0.05	
5.385	15401	11778	0.765	0.08	
5.509	16079	12387	0.770	0.08	
7.119	24148	13073	0.541	0.13	
7.727	32400	26930	0.831	0.17	
7.774	10672	9679	0.907	0.05	
7.800	29744	23917	0.804	0.16	
8.274	55425	44129	0.796	0.30	
8.382	17298	11722	0.678	0.09	
8.571	5596306	4563637	0.815	30.88	$ 12 Decachlorobiphenyl
8.941	22134	12886	0.582	0.12	
9.467	20327	15458	0.760	0.11	
9.959	25986	15994	0.615	0.14	
	18122599	15404109		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 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: 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	6155063	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	522622	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	271401	0.50000	0.50	0.00- 20.00	51.93		BA
2.688	2.688	0.000	726951	0.50000	0.52	0.00- 20.00	139.10		BA
2.788	2.789	-0.001	558273	0.50000	0.50	0.00- 20.00	106.82		BA
2.850	2.851	-0.001	1718599	0.50000	0.53	0.00- 20.00	328.84		BA
Average of Peak Amounts =					0.51000				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5596305	0.05000	0.051				

QC Flag Legend

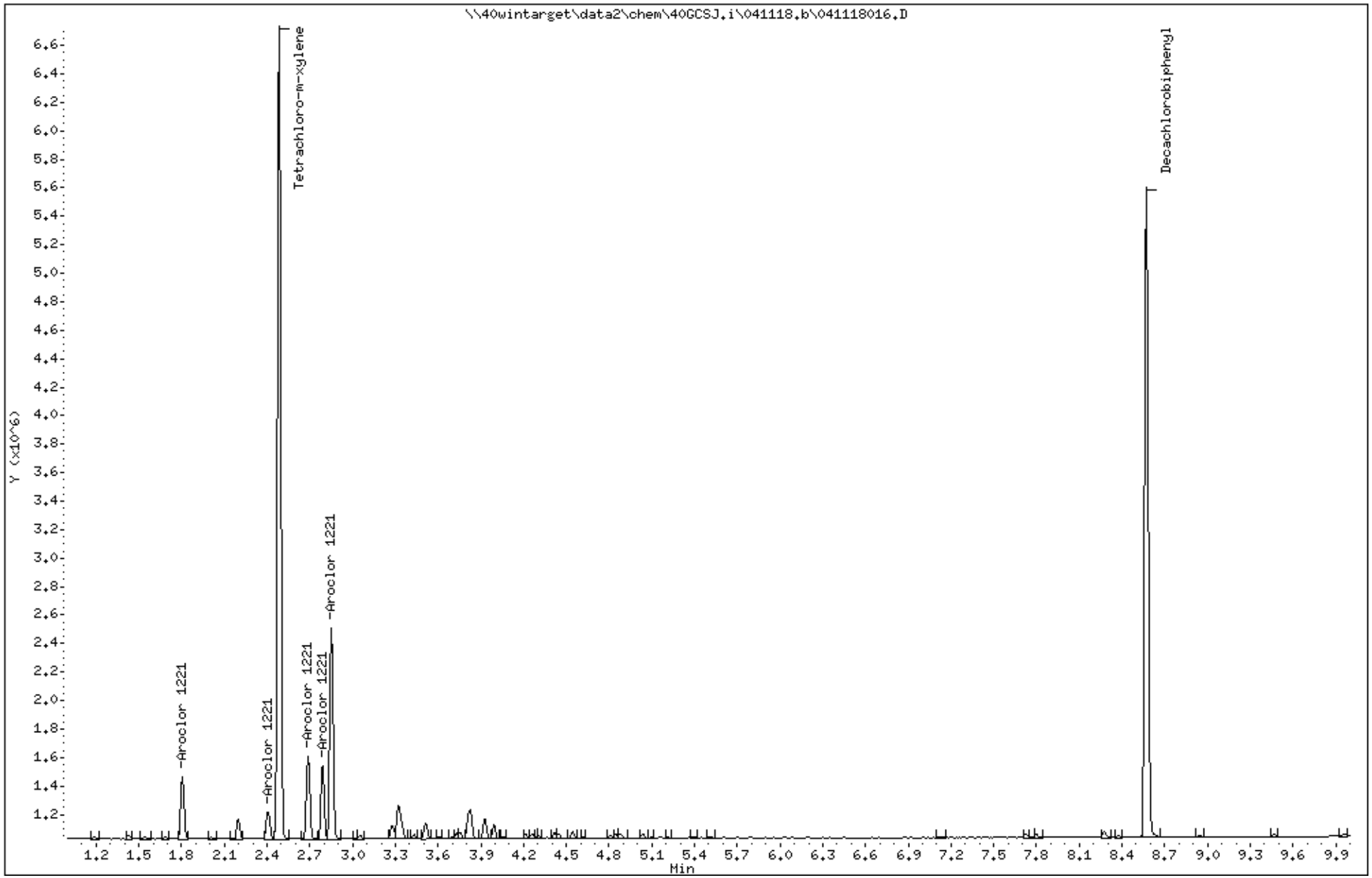
M - Compound response manually integrated.

Review Codes Legend

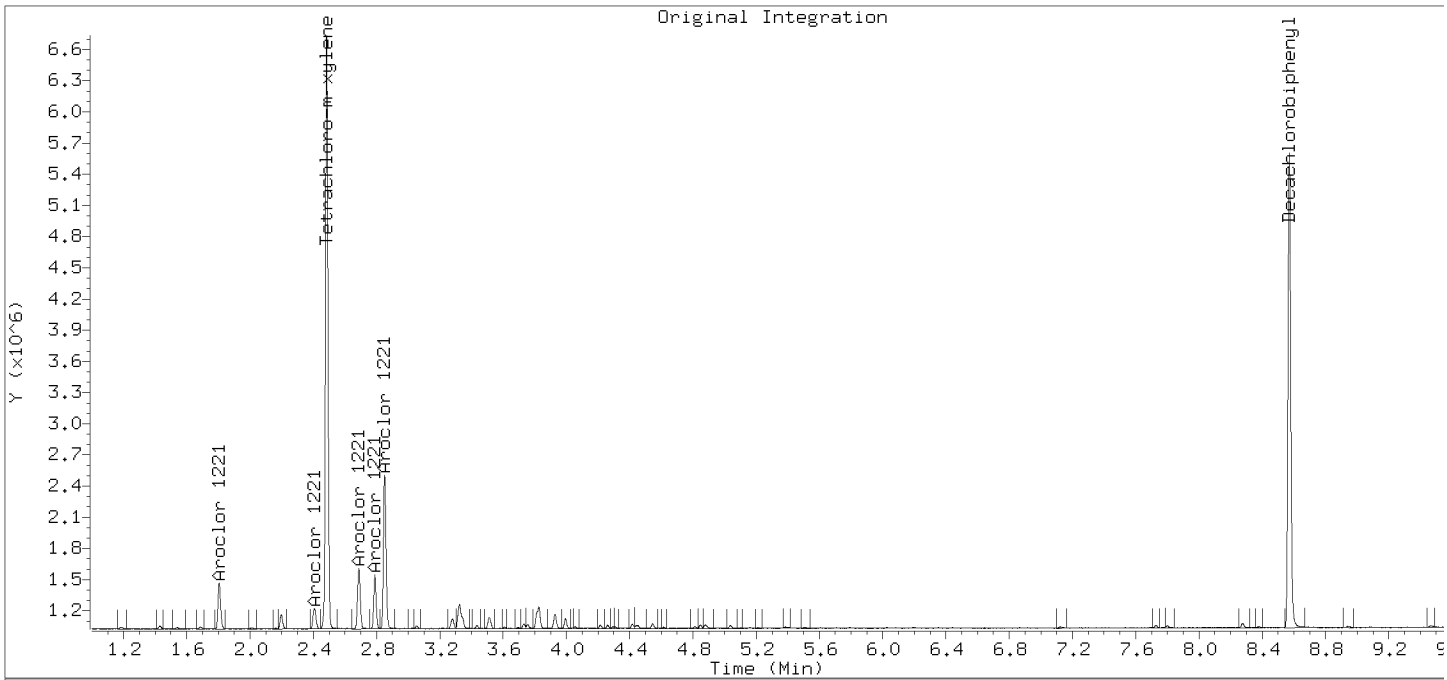
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

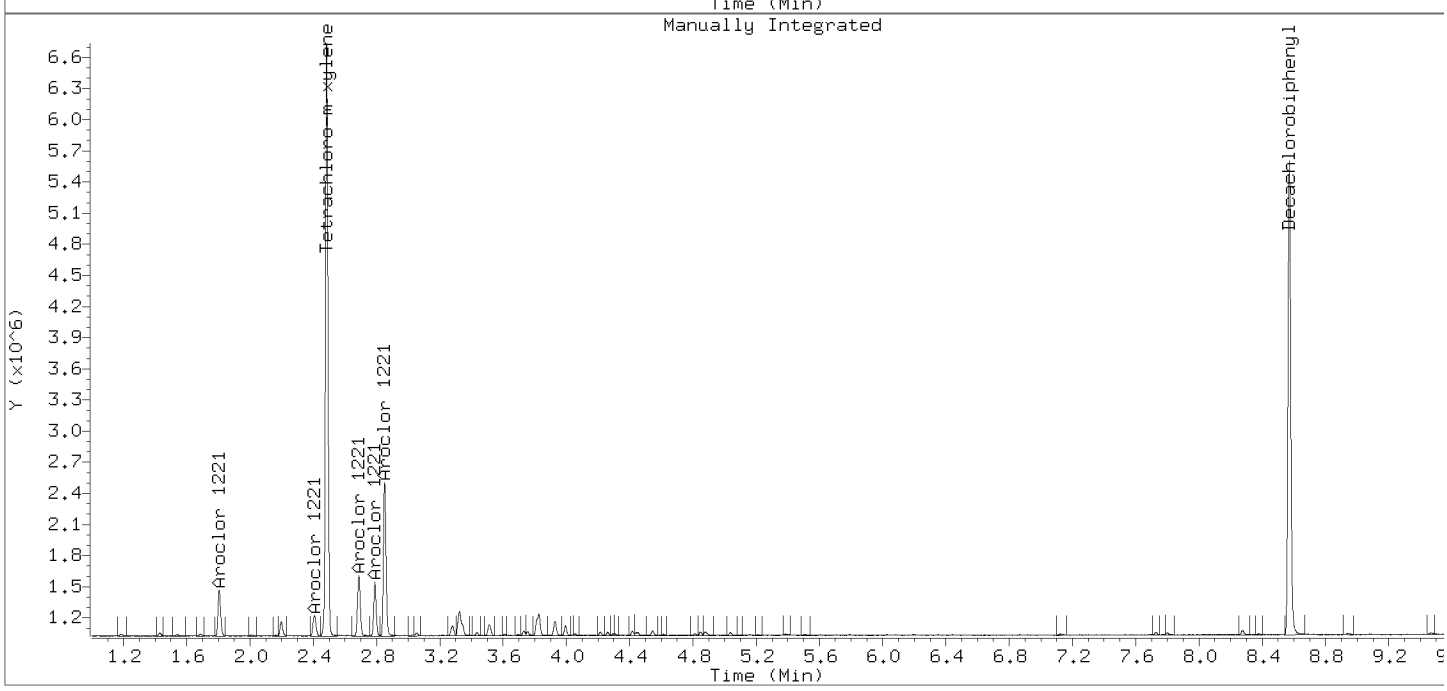
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Date : 11-APR-2018 17:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 11-APR-2018 17:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Tetrachloro-m-xylene	6135640	6155063	BA
Decachlorobiphenyl	5596305	5596305	

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.: 40157488

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665641

Date Analyzed: 03/30/2018 23:59

Lab File ID: 033018.B\033018035.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\033018.b\033018035.D
Lab Smp Id: 1665641 Client Smp ID: MB
Inj Date : 30-MAR-2018 23:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665641,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 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
1.539	12220	8835	0.723	0.06		
1.688	11802	11350	0.962	0.06		
2.200	68511	43341	0.633	0.35		
2.485	9062472	8790861	0.970	46.54	$ 2 Tetrachloro-m-xylene	
2.785	18940	15303	0.808	0.09		
2.860	20255	13190	0.651	0.10		
4.239	15325	12224	0.798	0.07		
5.345	13411	8291	0.618	0.06		
6.187	13873	8129	0.586	0.07		
7.119	12646	11143	0.881	0.06		
7.727	42443	38851	0.915	0.21		
7.798	31456	26503	0.843	0.16		
8.274	88646	77800	0.878	0.45		
8.377	11100	9263	0.834	0.05		
8.568	10019632	8531151	0.851	51.53	$ 12 Decachlorobiphenyl	
9.465	13707	9361	0.683	0.07		
9.956	13874	10369	0.747	0.07		
	19470313	17625965		100.000		

Total unknown % area = 1.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018035.D
Lab Smp Id: 1665641 Client Smp ID: MB
Inj Date : 30-MAR-2018 23:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665641,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 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		
2.484	2.484	0.000	9062471	0.07350	37			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

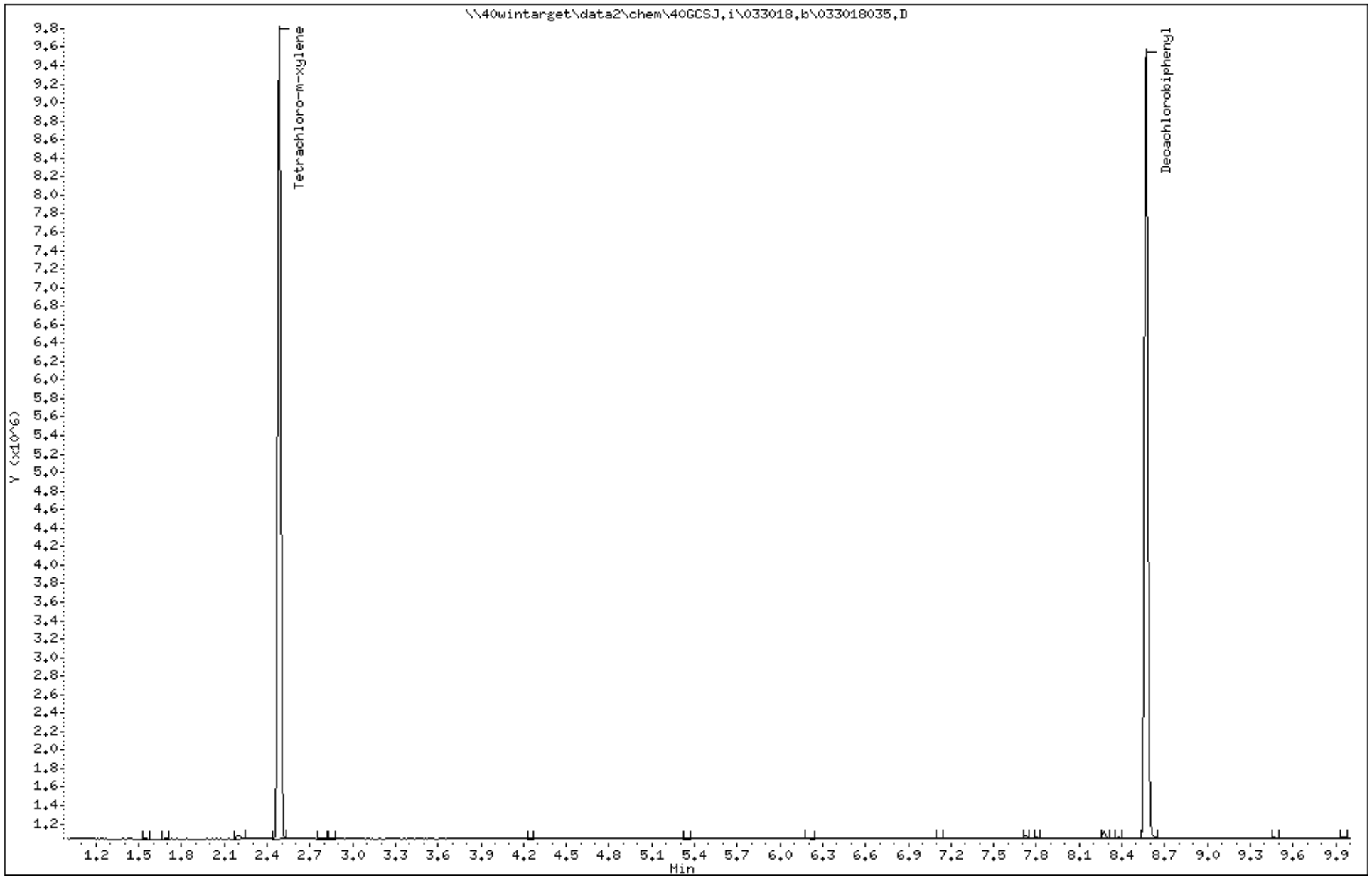
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.568	8.571	-0.003	10019631	0.09145		46		

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018035.D
Date : 30-MAR-2018 23:59
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1665641,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 23:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665641

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	9062471	9062471	
Decachlorobiphenyl	10019631	10019631	

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.: 40157488

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665642

Date Analyzed: 03/31/2018 00:15

Lab File ID: 033018.B\033018036.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)	235	
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\033018.b\033018036.D
Lab Smp Id: 1665642 Client Smp ID: MBLCS
Inj Date : 31-MAR-2018 00:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665642,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 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
1.689	9567	8721	0.912	0.02		
1.805	20559	13969	0.679	0.04		
2.198	66762	42285	0.633	0.14		
2.405	111970	85494	0.764	0.25		
2.484	9456231	9078106	0.960	21.15	$ 2 Tetrachloro-m-xylene	
2.687	180467	141806	0.786	0.40		
2.789	213030	194507	0.913	0.47		
2.850	930475	860048	0.924	2.08		
3.054	122920	108298	0.881	0.27		
3.273	23253	17821	0.766	0.05		
3.318	1178256	1105363	0.938	2.63	3 Aroclor 1242	BA
3.344	662981	625367	0.943	1.48		
3.434	186370	169047	0.907	0.41		
3.514	1156450	841473	0.728	2.58	3 Aroclor 1242	BA
3.644	19465	14133	0.726	0.04		
3.694	35055	33087	0.944	0.07		
3.731	302428	301015	0.995	0.67		
3.755	205225	194718	0.949	0.45		
3.826	3402183	1988081	0.584	7.61	3 Aroclor 1242	BA
3.929	1455672	1216355	0.836	3.25	3 Aroclor 1242	BA
3.994	961596	931069	0.968	2.15	3 Aroclor 1242	BA
4.058	259287	236505	0.912	0.58		
4.135	106038	91718	0.865	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	788617	743473	0.943	1.76	
4.261	738528	704191	0.954	1.65	
4.291	316064	312831	0.990	0.70	
4.310	362123	340362	0.940	0.81	
4.369	28188	20875	0.741	0.06	
4.417	1028837	968120	0.941	2.30	
4.451	814846	597139	0.733	1.82	
4.544	1315593	1195983	0.909	2.94	
4.590	16530	19390	1.173	0.03	
4.616	306666	282306	0.921	0.68	
4.679	20369	17439	0.856	0.04	
4.726	67549	58380	0.864	0.15	
4.767	72356	66113	0.914	0.16	
4.813	625968	611183	0.976	1.40	
4.847	1102485	1048042	0.951	2.46	
4.878	1391704	1047049	0.752	3.11	
4.956	142482	116342	0.817	0.31	
5.036	1175277	1100256	0.936	2.62	
5.099	226327	174365	0.770	0.50	
5.162	265415	242424	0.913	0.59	
5.211	194381	174500	0.898	0.43	
5.282	16312	15608	0.957	0.03	
5.307	47023	38141	0.811	0.10	
5.361	179989	143907	0.800	0.40	
5.406	278893	244083	0.875	0.62	
5.445	183492	160873	0.877	0.41	
5.509	475999	353957	0.744	1.06	
5.604	140589	123198	0.876	0.31	
5.678	20133	14159	0.703	0.04	
5.715	29517	24007	0.813	0.06	
5.740	36988	34028	0.920	0.08	
5.791	309292	263957	0.853	0.69	
5.888	38487	31246	0.812	0.08	
6.024	267857	233628	0.872	0.59	
6.053	50420	38269	0.759	0.11	
6.166	32484	16835	0.518	0.07	
6.297	65841	54326	0.825	0.14	
6.336	18776	13613	0.725	0.04	
6.369	17125	11893	0.694	0.03	
6.509	9800	11350	1.158	0.02	
6.535	17560	16057	0.914	0.03	
6.718	9244	9548	1.033	0.02	
6.798	17808	12795	0.718	0.03	
7.004	23102	18454	0.799	0.05	
7.122	13037	10576	0.811	0.02	
7.440	10726	7371	0.687	0.02	
7.727	41946	37634	0.897	0.09	
7.800	36536	27117	0.742	0.08	
8.273	89985	78837	0.876	0.20	
8.375	13748	12157	0.884	0.03	
8.569	10136396	8853501	0.873	23.01	$ 12 Decachlorobiphenyl
	44695648	39050874		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018036.D
Lab Smp Id: 1665642 Client Smp ID: MBLCS
Inj Date : 31-MAR-2018 00:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665642,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 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			
2.484	2.484	0.000	9456231	0.07670	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1178255	0.46513	230	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1156450	0.45890	230	0.00- 20.00	98.15	BA
3.826	3.827	-0.001	3402183	0.47807	240	0.00- 20.00	288.75	BA
3.929	3.929	0.000	1455671	0.47860	240	0.00- 20.00	123.54	BA
3.993	3.995	-0.002	961596	0.46959	230	0.00- 20.00	81.61	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.

---

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	10136395	0.09252	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\40GCSJ.i\033018.b\033018036.D

Date : 31-MAR-2018 00:15

Client ID: MBLCS

Instrument: 40GCSJ.i

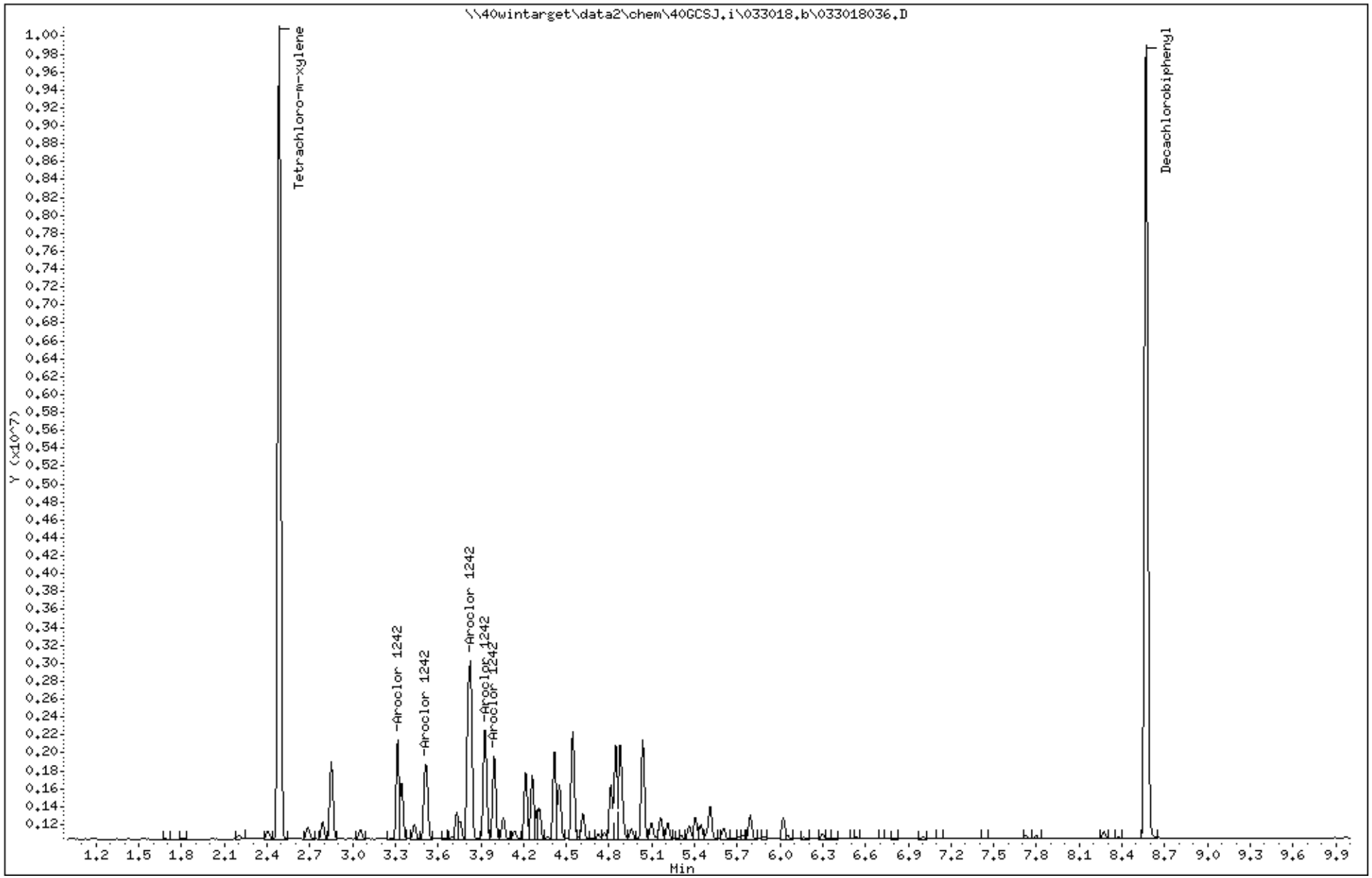
Sample Info: 1665642,

Volume Injected (uL): 1.0

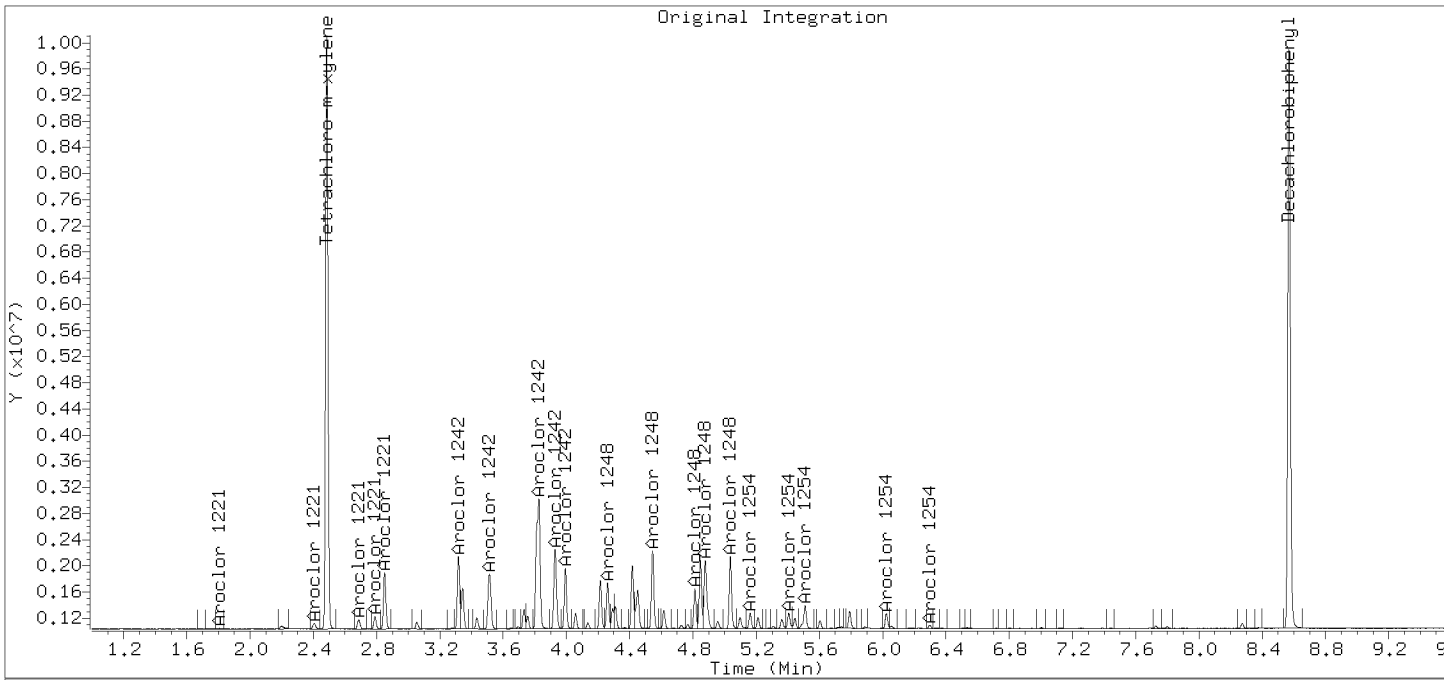
Operator: BLM

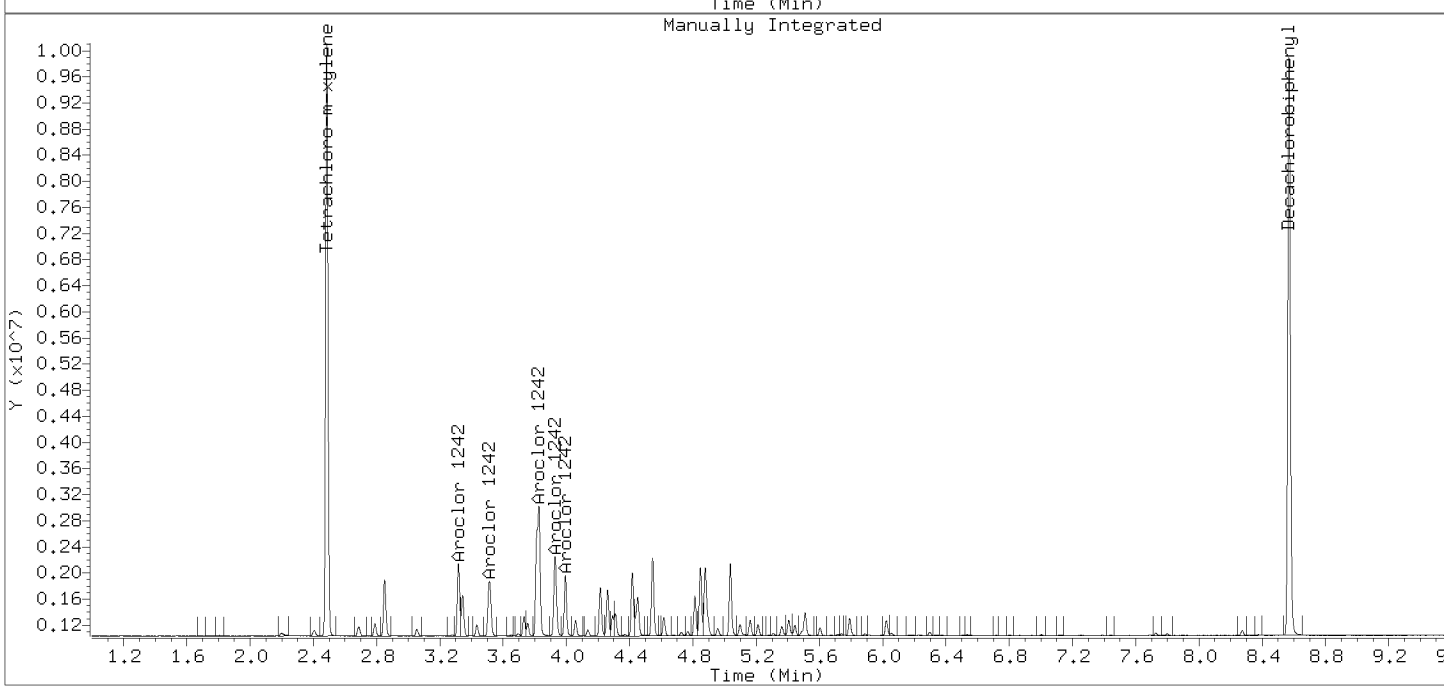
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 00:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665642





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	

Aroclor 1232	917084	0	
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9456231	9456231	
Decachlorobiphenyl	10136395	10136395	

==========

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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157488
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 1665643
Date Analyzed: 03/31/2018 00:30
Lab File ID: 033018.B\033018037.D
Initial wt/vol: 9.9994 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ 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)	119	
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	284	
12672-29-6	PCB-1248 (Aroclor 1248)	340	
11097-69-1	PCB-1254 (Aroclor 1254)	148	
11096-82-5	PCB-1260 (Aroclor 1260)	47.6	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018037.D
Lab Smp Id: 1665643 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 00:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665643 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.804	18495	12274	0.664	0.04		1 Aroclor 1221	BA
2.165	16916	12865	0.761	0.04			
2.409	129920	93048	0.716	0.30		1 Aroclor 1221	BA
2.485	4929490	4781388	0.970	11.68	$	2 Tetrachloro-m-xylene	BA
2.688	99604	79882	0.802	0.23		1 Aroclor 1221	BA
2.790	121748	113901	0.936	0.28		1 Aroclor 1221	BA
2.850	514358	472168	0.918	1.21		1 Aroclor 1221	BA
3.018	15144	15459	1.021	0.03			
3.056	124451	114060	0.917	0.29			
3.274	12581	11989	0.953	0.02			
3.318	658633	620332	0.942	1.56		3 Aroclor 1242	BA
3.344	384720	364424	0.947	0.91			
3.435	185139	166807	0.901	0.43			
3.514	712680	529032	0.742	1.68		3 Aroclor 1242	BA
3.646	27328	21647	0.792	0.06			
3.696	19481	18588	0.954	0.04			
3.732	249389	238142	0.955	0.59			
3.756	135279	132550	0.980	0.32			
3.827	2238038	1320449	0.590	5.30		3 Aroclor 1242	BA
3.930	830520	666396	0.802	1.96		3 Aroclor 1242	BA
3.994	590065	564381	0.956	1.39		3 Aroclor 1242	BA
4.058	177951	161086	0.905	0.42			
4.135	67807	54769	0.808	0.16			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	1086238	1015588	0.935	2.57	
4.261	1062630	1002774	0.944	2.51	6 Aroclor 1248
4.292	1125749	839064	0.745	2.66	
4.416	789986	749501	0.949	1.87	
4.452	620355	493626	0.796	1.47	
4.546	1178964	1075390	0.912	2.79	6 Aroclor 1248
4.588	79162	73077	0.923	0.18	
4.618	215629	196536	0.911	0.51	
4.679	74433	63003	0.846	0.17	
4.736	111671	77988	0.698	0.26	
4.767	188601	179653	0.953	0.44	
4.813	718224	691960	0.963	1.70	6 Aroclor 1248
4.847	894963	867158	0.969	2.12	
4.878	1735510	1151992	0.664	4.11	6 Aroclor 1248
4.956	293842	249291	0.848	0.69	
5.036	938714	879004	0.936	2.22	6 Aroclor 1248
5.101	546521	468477	0.857	1.29	
5.161	834285	750114	0.899	1.97	7 Aroclor 1254
5.211	651969	583185	0.894	1.54	
5.284	82633	76969	0.931	0.19	
5.307	147441	131283	0.890	0.34	
5.362	294859	250492	0.850	0.69	
5.406	580241	530321	0.914	1.37	7 Aroclor 1254
5.446	460810	372458	0.808	1.09	
5.481	69429	81575	1.175	0.16	
5.509	1063335	918924	0.864	2.52	7 Aroclor 1254
5.577	63470	54281	0.855	0.15	
5.604	185325	156782	0.846	0.43	
5.675	287394	268008	0.933	0.68	
5.711	163446	125125	0.766	0.38	
5.741	226763	169480	0.747	0.53	
5.790	1240770	1003192	0.809	2.94	
5.841	37704	30950	0.821	0.08	
5.886	129824	100281	0.772	0.30	
5.931	129731	94925	0.732	0.30	
5.993	257834	236176	0.916	0.61	
6.024	622025	539697	0.868	1.47	7 Aroclor 1254
6.055	750506	681235	0.908	1.77	
6.168	192491	118948	0.618	0.45	
6.224	64664	75277	1.164	0.15	
6.240	115580	86397	0.748	0.27	
6.300	1189213	999202	0.840	2.81	7 Aroclor 1254
6.331	113191	101956	0.901	0.26	
6.373	58098	47739	0.822	0.13	
6.432	176328	139715	0.792	0.41	
6.509	433531	393238	0.907	1.02	
6.534	208744	181885	0.871	0.49	
6.559	89722	83813	0.934	0.21	
6.605	32482	31190	0.960	0.07	
6.659	25363	21185	0.835	0.06	
6.717	108047	88905	0.823	0.25	
6.757	132495	115586	0.872	0.31	
6.800	154742	137943	0.891	0.36	
6.837	96538	74995	0.777	0.22	
6.912	22556	21418	0.950	0.05	
6.941	81281	74157	0.912	0.19	
7.003	323466	293007	0.906	0.76	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.033	41815	35127	0.840	0.09	
7.121	27570	16462	0.597	0.06	
7.249	169487	150067	0.885	0.40	8 Aroclor 1260
7.280	73103	54406	0.744	0.17	
7.332	13249	10837	0.818	0.03	
7.387	201300	181488	0.902	0.47	
7.441	196772	171476	0.871	0.46	8 Aroclor 1260
7.550	12367	11975	0.968	0.02	
7.689	49250	44530	0.904	0.11	
7.726	82221	69644	0.847	0.19	
7.768	8531	11091	1.300	0.02	
7.801	51165	28260	0.552	0.12	
7.859	10123	8449	0.835	0.02	
7.899	145835	121971	0.836	0.34	8 Aroclor 1260
7.961	25119	13931	0.555	0.05	
8.048	16080	12046	0.749	0.03	
8.273	191921	172952	0.901	0.45	
8.379	19241	11876	0.617	0.04	
8.570	4985610	4213911	0.845	12.34	$ 12 Decachlorobiphenyl
9.166	28735	22680	0.789	0.06	
9.465	12899	10138	0.786	0.03	
9.957	9924	7138	0.719	0.02	
	42191572	36262183		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018037.D
Lab Smp Id: 1665643 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 00:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665643 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	18495	0.01776	18	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	129919	0.23715	240	0.00- 20.00	702.45	BA
2.688	2.688	0.000	99603	0.07200	72	0.00- 20.00	538.54	BA
2.789	2.789	0.000	121747	0.11010	110	0.00- 20.00	658.27	BA
2.850	2.851	-0.001	514357	0.15800	160	0.00- 20.00	2781.06	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	4929489	0.03998	40		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	658633	0.26000	260	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	712680	0.28281	280	0.00- 20.00	108.21	BA
3.826	3.827	-0.001	2238038	0.31449	310	0.00- 20.00	339.80	BA
3.929	3.929	0.000	830520	0.27306	270	0.00- 20.00	126.10	BA
3.993	3.995	-0.002	590065	0.28815	290	0.00- 20.00	89.59	BA
Average of Peak Concentrations =					280			

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	1062630	0.45354	450	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1178964	0.28407	280	0.00- 20.00	110.95	BA
4.812	4.812	0.000	718224	0.35379	350	0.00- 20.00	67.59	BA
4.878	4.879	-0.001	1735510	0.34452	340	0.00- 20.00	163.32	BA
5.036	5.038	-0.002	938714	0.26159	260	0.00- 20.00	88.34	BA
Average of Peak Concentrations =					340			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	834284	0.15936	160	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	580241	0.13491	130	0.00- 20.00	69.55	BA
5.508	5.510	-0.002	1063334	0.13692	140	0.00- 20.00	127.45	BA
6.024	6.027	-0.003	622025	0.12773	130	0.00- 20.00	74.56	BA
6.300	6.299	0.001	1189212	0.18276	180	0.00- 20.00	142.54	BA
Average of Peak Concentrations =					150			
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
7.003	7.006	-0.003	323466	0.03230	32	0.00- 20.00	27.20	BA
7.249	7.251	-0.002	169486	0.03546	35	0.00- 20.00	14.25	BA
7.441	7.443	-0.002	196772	0.06750	68	0.00- 20.00	16.55	BA
7.898	7.901	-0.003	145834	0.05527	55	0.00- 20.00	12.26	BA
Average of Peak Concentrations =					48			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4985609	0.04551	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\40GCSJ.i\033018.b\033018037.D

Date : 31-MAR-2018 00:30

Client ID: SW2-170614-01-YP-01

Instrument: 40GCSJ.i

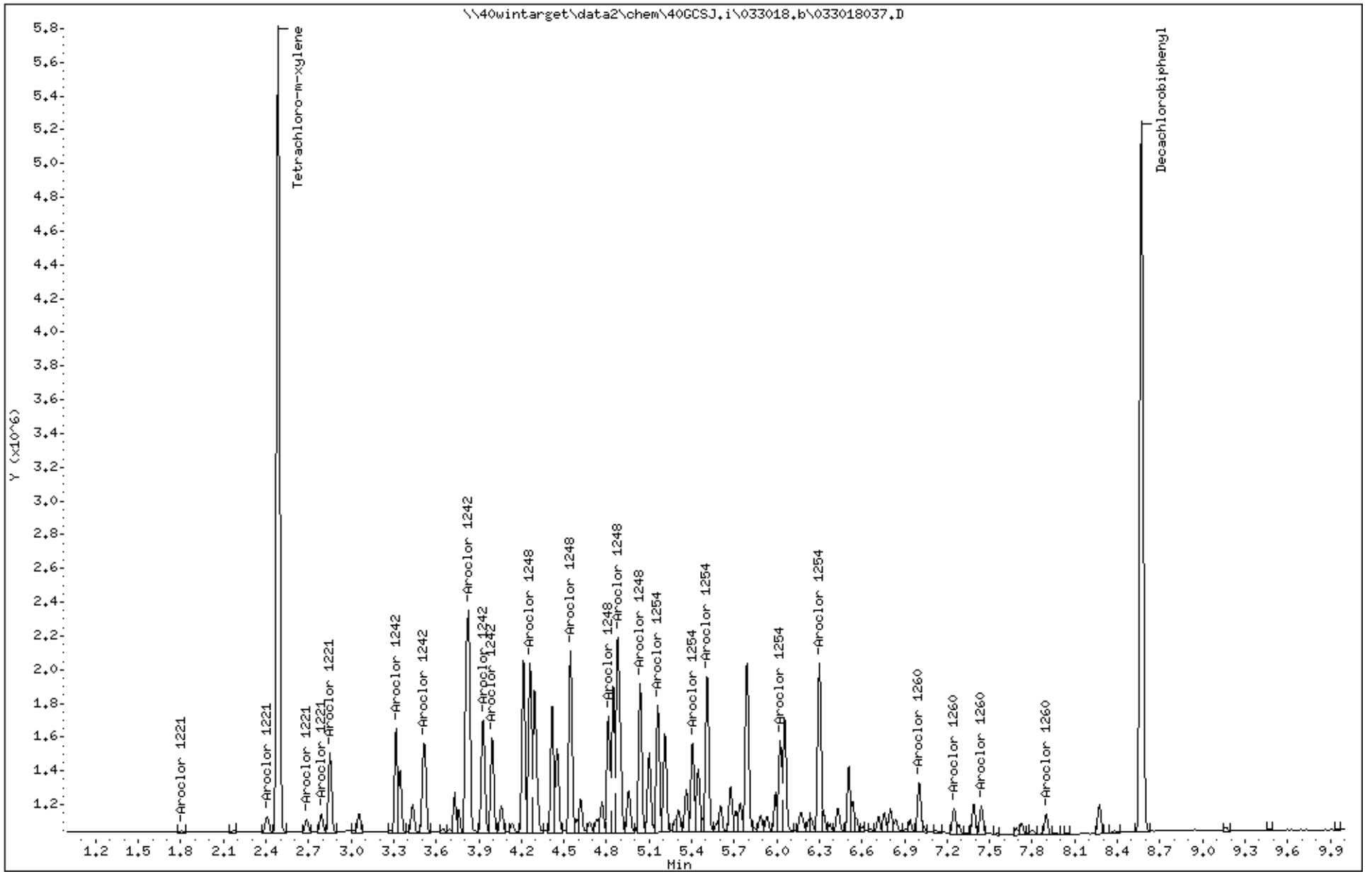
Sample Info: 1665643 x2,

Volume Injected (uL): 1.0

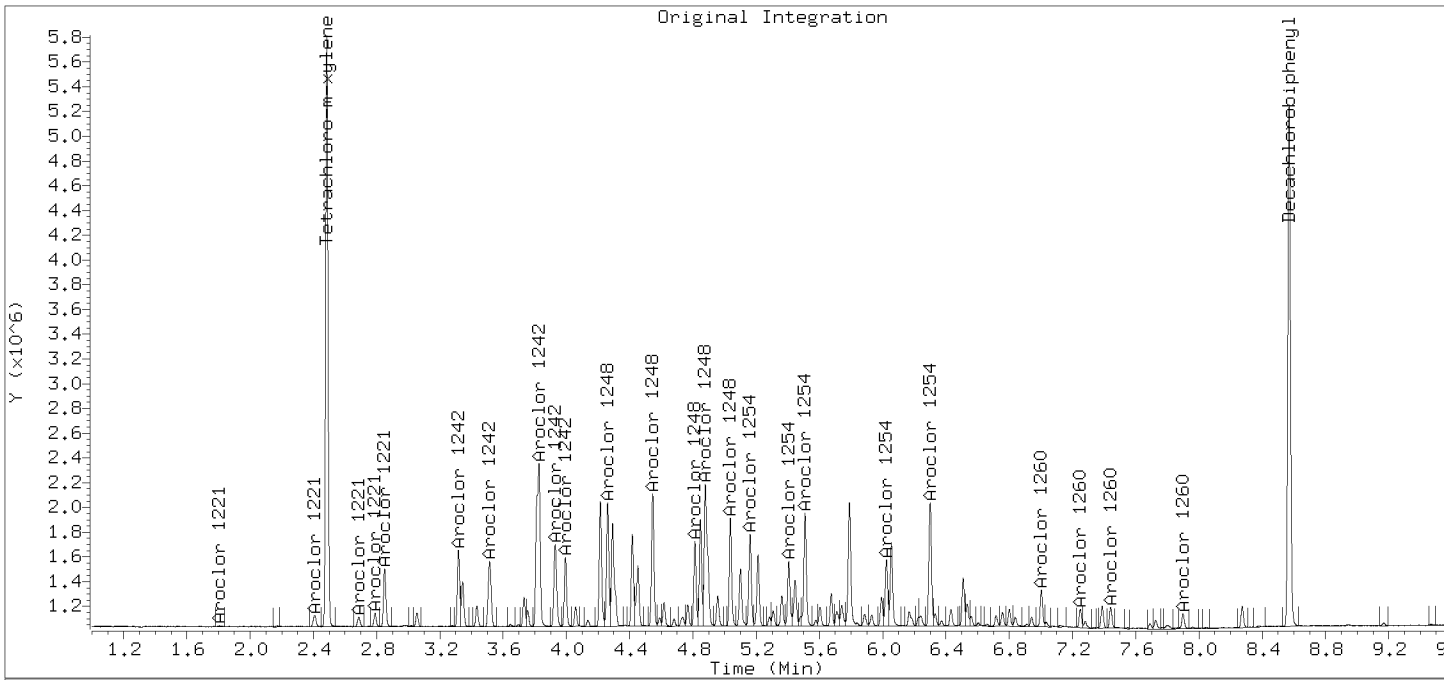
Operator: BLM

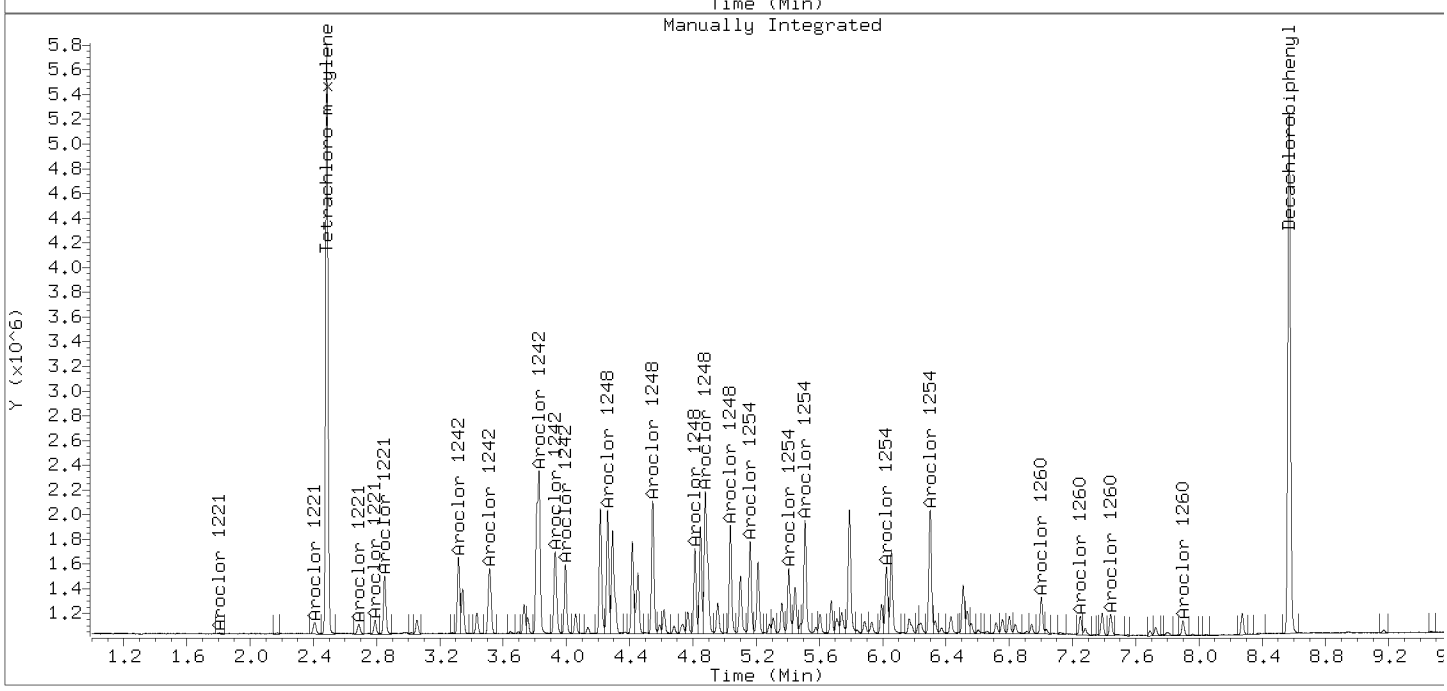
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 00:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665643





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	653061	0	
Aroclor 1016	653061	0	
Aroclor 1016	653061	0	
Aroclor 1016	653061	0	
Aroclor 1016	653061	0	
Aroclor 1221	15738	18495	BA
Aroclor 1221	15738	18495	BA
Aroclor 1221	15738	18495	BA
Aroclor 1221	15738	18495	BA
Aroclor 1221	15738	18495	BA
Aroclor 1232	504534	0	
Aroclor 1232	504534	0	
Aroclor 1232	504534	0	
Aroclor 1232	504534	0	

Aroclor 1232	504534	0	
Aroclor 1242	653061	658633	BA
Aroclor 1242	653061	658633	BA
Aroclor 1242	653061	658633	BA
Aroclor 1242	653061	658633	BA
Aroclor 1242	653061	658633	BA
Aroclor 1248	1052868	1062630	BA
Aroclor 1248	1052868	1062630	BA
Aroclor 1248	1052868	1062630	BA
Aroclor 1248	1052868	1062630	BA
Aroclor 1248	1052868	1062630	BA
Aroclor 1254	815570	834284	BA
Aroclor 1254	815570	834284	BA
Aroclor 1254	815570	834284	BA
Aroclor 1254	815570	834284	BA
Aroclor 1254	815570	834284	BA
Aroclor 1260	1173910	0	BA
Aroclor 1260	1173910	0	BA
Aroclor 1260	1173910	0	BA
Aroclor 1260	1173910	0	BA
Aroclor 1260	1173910	0	BA
Tetrachloro-m-xylene	4920571	4929489	BA
Decachlorobiphenyl	4985609	4985609	

==========

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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157488

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665644

Date Analyzed: 03/31/2018 02:37

Lab File ID: 033018.B\033018045.D

Initial wt/vol: 9.9916 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)	37.9	J
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)	240	
11097-69-1	PCB-1254 (Aroclor 1254)	163	
11096-82-5	PCB-1260 (Aroclor 1260)	60.5	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018045.D
Lab Smp Id: 1665644 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 02:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665644,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45 QC Sample: FIELDDUP
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.427	9980	10540	1.056	0.01		
1.801	14789	9755	0.660	0.02	1 Aroclor 1221	BA
2.198	81317	44237	0.544	0.11		
2.410	166908	130530	0.782	0.23	1 Aroclor 1221	BA
2.485	10590069	9906780	0.935	15.30	$ 2 Tetrachloro-m-xylene	BA
2.685	14673	10354	0.706	0.02	1 Aroclor 1221	BA
2.786	34788	28930	0.832	0.04	1 Aroclor 1221	BA
2.852	58143	42806	0.736	0.08	1 Aroclor 1221	BA
2.976	50660	25610	0.506	0.07		
3.019	30157	28735	0.953	0.04		
3.055	168180	151297	0.900	0.23		
3.318	76275	72536	0.951	0.10		
3.346	101174	90379	0.893	0.14		
3.434	230220	212838	0.924	0.32		
3.519	282277	259137	0.918	0.39		
3.647	42441	34119	0.804	0.05		
3.732	233691	228176	0.976	0.32		
3.756	87823	86098	0.980	0.12		
3.820	537183	603737	1.124	0.75		
3.826	683467	703737	1.030	0.95		
3.938	182548	145637	0.798	0.25		
3.993	255283	239370	0.938	0.35		
4.058	122752	108112	0.881	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	23056	18521	0.803	0.03	
4.215	1783138	1626048	0.912	2.49	
4.261	1765631	1650181	0.935	2.46	6 Aroclor 1248
4.292	1985429	1679720	0.846	2.77	
4.347	32083	22862	0.713	0.04	
4.417	658461	614645	0.933	0.92	
4.452	571274	529816	0.927	0.79	
4.545	1345860	1265058	0.940	1.88	6 Aroclor 1248
4.589	177985	168006	0.944	0.24	
4.617	145244	127593	0.878	0.20	
4.680	164712	148335	0.901	0.23	
4.735	208072	163125	0.784	0.29	
4.768	371516	352056	0.948	0.51	
4.813	1071521	1028029	0.959	1.49	6 Aroclor 1248
4.847	901547	857344	0.951	1.26	
4.878	2703837	1596003	0.590	3.78	6 Aroclor 1248
4.955	579502	506315	0.874	0.81	
5.036	925416	875347	0.946	1.29	6 Aroclor 1248
5.101	1131909	975353	0.862	1.58	
5.160	1815777	1561120	0.860	2.53	7 Aroclor 1254
5.211	1448923	1254149	0.866	2.02	
5.284	195771	181356	0.926	0.27	
5.308	339257	286670	0.845	0.47	
5.362	547042	480020	0.877	0.76	
5.406	1197819	1048184	0.875	1.67	7 Aroclor 1254
5.446	966249	822012	0.851	1.35	
5.478	178429	164448	0.922	0.24	
5.509	2124976	1845731	0.869	2.97	7 Aroclor 1254
5.577	149230	132265	0.886	0.20	
5.603	303200	251116	0.828	0.42	
5.675	731834	682771	0.933	1.02	
5.710	383275	307991	0.804	0.53	
5.741	538548	420794	0.781	0.75	
5.789	2788149	2195519	0.787	3.89	
5.839	78874	66116	0.838	0.11	
5.885	297316	223912	0.753	0.41	
5.931	314401	250733	0.797	0.43	
5.993	664699	620275	0.933	0.92	
6.024	1315533	1138838	0.866	1.83	7 Aroclor 1254
6.055	1875591	1611129	0.859	2.62	
6.116	38760	21600	0.557	0.05	
6.168	474258	286085	0.603	0.66	
6.227	177078	196331	1.109	0.24	
6.242	288263	222093	0.770	0.40	
6.299	2981195	2410834	0.809	4.16	7 Aroclor 1254
6.332	275508	251605	0.913	0.38	
6.371	143560	108089	0.753	0.20	
6.432	437912	354047	0.808	0.61	
6.509	1169241	1027911	0.879	1.63	
6.534	508678	453290	0.891	0.71	
6.560	233922	212844	0.910	0.32	
6.604	109391	81329	0.743	0.15	
6.660	66131	50391	0.762	0.09	
6.717	268394	222396	0.829	0.37	
6.757	347164	292224	0.842	0.48	
6.799	393321	346724	0.882	0.55	
6.837	234919	188680	0.803	0.32	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.911	51775	48560	0.938	0.07	
6.940	220043	196883	0.895	0.30	
7.003	856003	808697	0.945	1.19	8 Aroclor 1260
7.034	95608	91904	0.961	0.13	
7.074	23902	16940	0.709	0.03	
7.123	50831	28832	0.567	0.07	
7.250	428482	393700	0.919	0.59	8 Aroclor 1260
7.280	164640	134563	0.817	0.23	
7.338	22795	18240	0.800	0.03	
7.387	524228	455233	0.868	0.73	
7.442	506493	434287	0.857	0.70	8 Aroclor 1260
7.551	26032	24703	0.949	0.03	
7.581	11913	12024	1.009	0.01	
7.623	22359	10094	0.451	0.03	
7.690	109578	101384	0.925	0.15	
7.726	187032	162196	0.867	0.26	
7.799	97444	58675	0.602	0.13	
7.862	17988	13525	0.752	0.02	
7.899	354753	303862	0.857	0.49	8 Aroclor 1260
7.962	43886	30682	0.699	0.06	
8.049	32625	26686	0.818	0.04	
8.274	469350	411205	0.876	0.65	
8.378	28537	18532	0.649	0.03	
8.449	14795	11458	0.774	0.02	
8.570	9997521	8820117	0.882	13.98	$ 12 Decachlorobiphenyl
8.726	24158	15895	0.658	0.03	
9.054	14425	8984	0.623	0.02	
9.167	66843	59338	0.888	0.09	
9.470	25640	12142	0.474	0.03	
9.960	14286	9292	0.650	0.01	
	71507544	62388062		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018045.D
Lab Smp Id: 1665644 Client Smp ID: SW2-170614-01-YP-01
Inj Date : 31-MAR-2018 02:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665644,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45 QC Sample: FIELDDUP
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	9.992	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			
1.805	1.804	0.001	14788	0.01420	7.1	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	166907	0.30466	150	0.00- 20.00	1128.67	BA
2.685	2.688	-0.003	14672	0.01061	5.3	0.00- 20.00	99.22	BA
2.786	2.789	-0.003	34787	0.03146	16	0.00- 20.00	235.24	BA
2.852	2.851	0.001	58143	0.01786	8.9	0.00- 20.00	393.18	BA
Average of Peak Concentrations =					38			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10590069	0.08589	43		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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

    4 Aroclor 1232                                CAS #: 1114-16-5

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

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.261    4.261    0.000         1765631 0.75359      380   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1345859 0.32428      160   0.00-  20.00    76.23         BA
4.812    4.812    0.000         1071521 0.52782      260   0.00-  20.00    60.69         BA
4.878    4.879   -0.001         2703837 0.53675      270   0.00-  20.00   153.14         BA
5.036    5.038   -0.002          925416 0.25788      130   0.00-  20.00    52.41         BA
               Average of Peak Concentrations =      240
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002         1815776 0.34684      170   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003         1197819 0.27849      140   0.00-  20.00    65.97         BA
5.509    5.510   -0.001         2124975 0.27362      140   0.00-  20.00   117.03         BA
6.024    6.027   -0.003         1315532 0.27015      140   0.00-  20.00    72.45         BA
6.299    6.299    0.000         2981194 0.45814      230   0.00-  20.00   164.18         BA
               Average of Peak Concentrations =      160
-------------------------------------------------------------------------------
    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
7.003    7.006   -0.003          856002 0.08548       43   0.00-  20.00    28.71         BA
7.249    7.251   -0.002          428482 0.08964       45   0.00-  20.00    14.37         BA
7.441    7.443   -0.002          506493 0.17375       87   0.00-  20.00    16.99         BA
7.899    7.901   -0.002          354753 0.13444       67   0.00-  20.00    11.90         BA
               Average of Peak Concentrations =       60
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.570    8.571   -0.001         9997520 0.09125       46
-------------------------------------------------------------------------------
```

QC Flag Legend

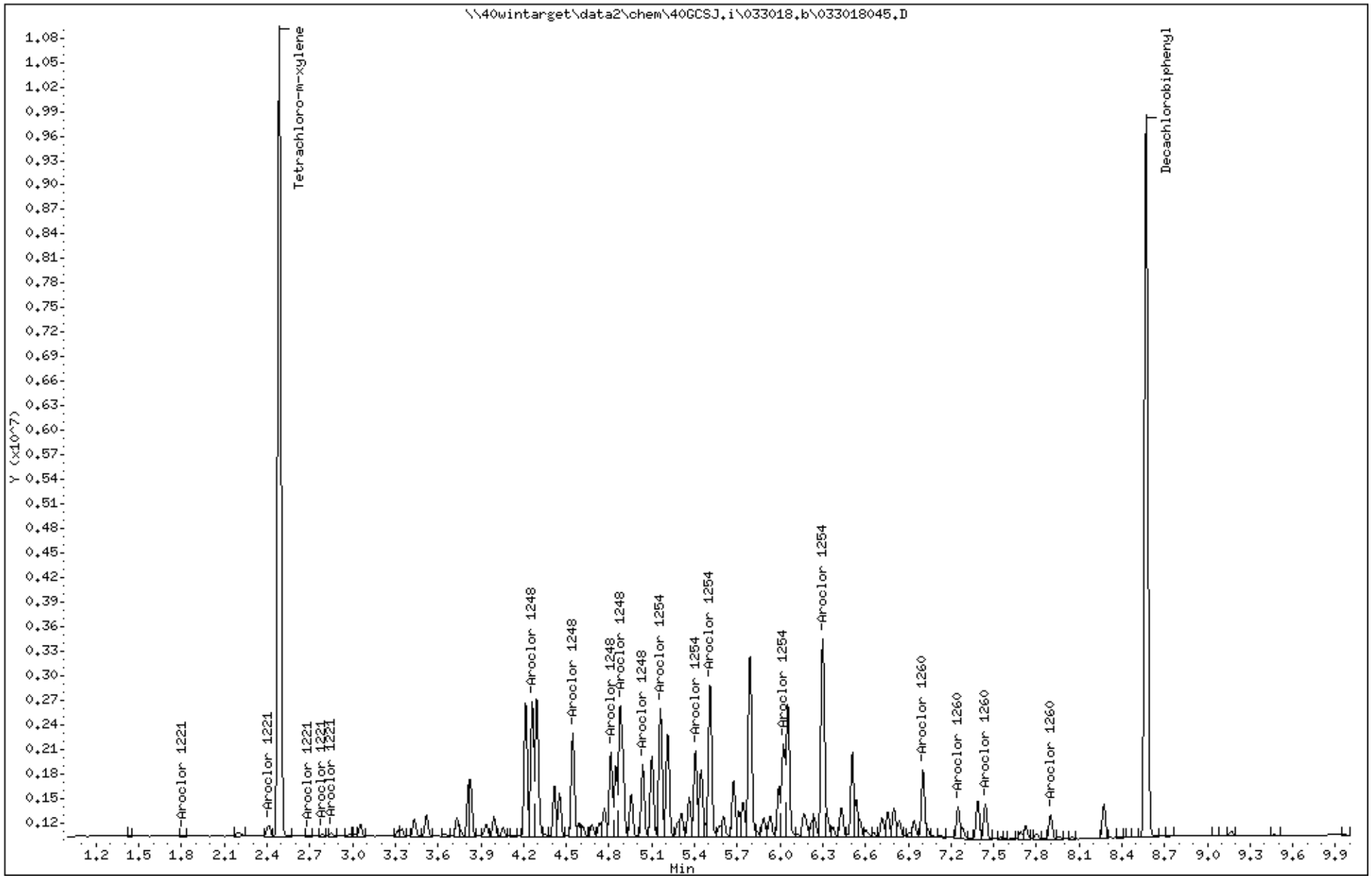
M - Compound response manually integrated.

Review Codes Legend

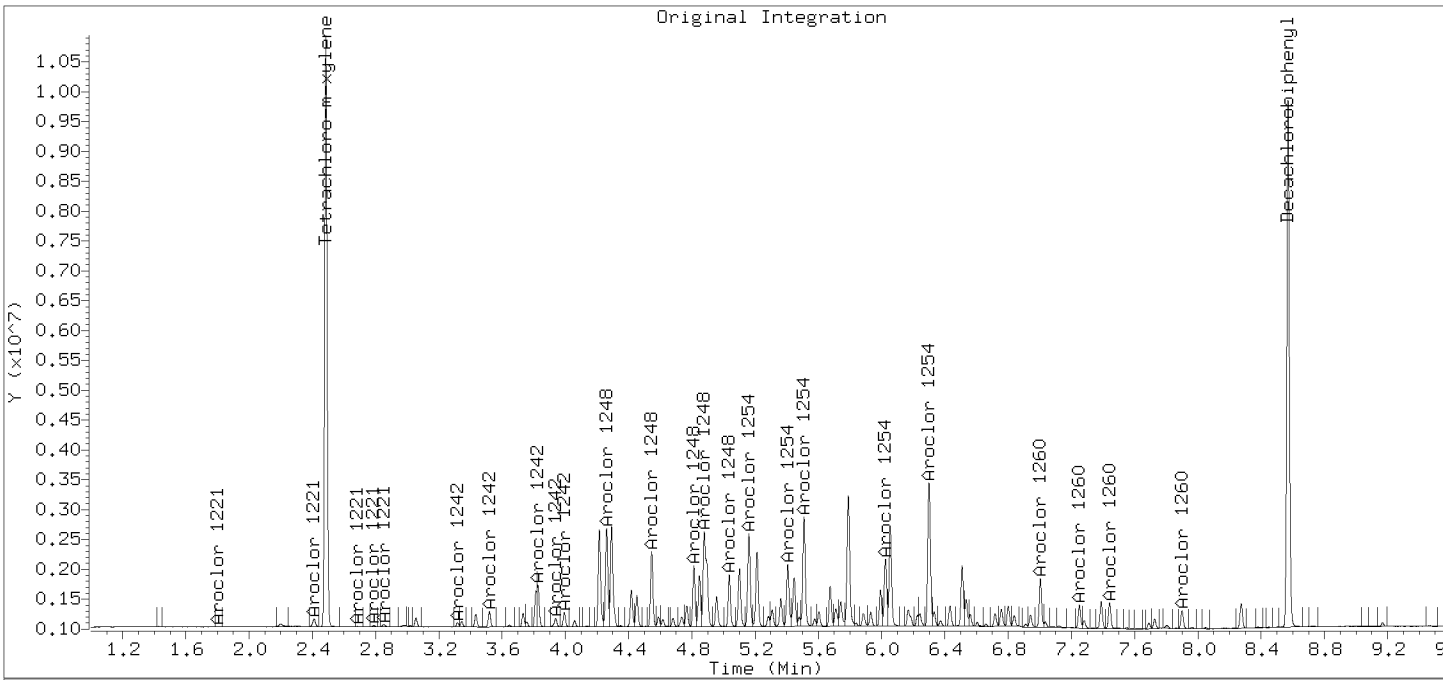
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

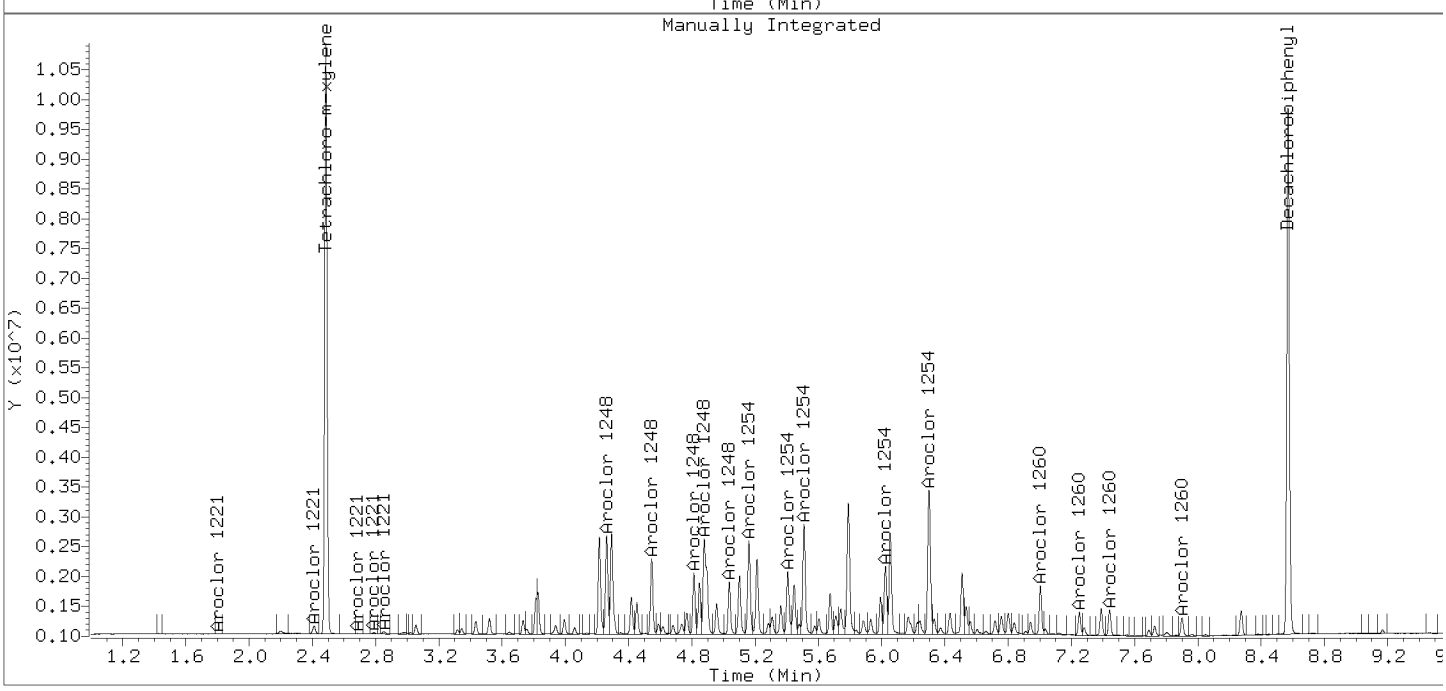
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018045.D
Date : 31-MAR-2018 02:37
Client ID: SW2-170614-01-YP-01
Sample Info: 1665644,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018045.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 02:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665644





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	73856	0	
Aroclor 1016	73856	0	
Aroclor 1016	73856	0	
Aroclor 1016	73856	0	
Aroclor 1016	73856	0	
Aroclor 1221	12159	14788	BA
Aroclor 1221	12159	14788	BA
Aroclor 1221	12159	14788	BA
Aroclor 1221	12159	14788	BA
Aroclor 1221	12159	14788	BA
Aroclor 1232	49747	0	
Aroclor 1232	49747	0	
Aroclor 1232	49747	0	
Aroclor 1232	49747	0	

Aroclor 1232	49747	0	
Aroclor 1242	73856	0	
Aroclor 1242	73856	0	
Aroclor 1242	73856	0	
Aroclor 1242	73856	0	
Aroclor 1242	73856	0	
Aroclor 1248	1752773	1765631	BA
Aroclor 1248	1752773	1765631	BA
Aroclor 1248	1752773	1765631	BA
Aroclor 1248	1752773	1765631	BA
Aroclor 1248	1752773	1765631	BA
Aroclor 1254	1785104	1815776	BA
Aroclor 1254	1785104	1815776	BA
Aroclor 1254	1785104	1815776	BA
Aroclor 1254	1785104	1815776	BA
Aroclor 1254	1785104	1815776	BA
Aroclor 1260	2934584	0	BA
Aroclor 1260	2934584	0	BA
Aroclor 1260	2934584	0	BA
Aroclor 1260	2934584	0	BA
Aroclor 1260	2934584	0	BA
Tetrachloro-m-xylene	10578973	10590069	BA
Decachlorobiphenyl	9997520	9997520	

==========

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.: 40157488

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666454

Date Analyzed: 04/02/2018 16:16

Lab File ID: 040218.B\040218008.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\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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
1.184	15310	13331	0.871	0.07		
1.434	11951	8959	0.750	0.05		
1.689	15927	13647	0.857	0.07		
2.198	52066	31112	0.598	0.25		
2.485	9319026	8770618	0.941	46.14	$ 2 Tetrachloro-m-xylene	
2.787	18507	14704	0.795	0.09		
2.858	10787	10022	0.929	0.05		
4.574	9520	3927	0.413	0.04		
7.119	31760	17355	0.546	0.15		
7.681	9865	6624	0.671	0.04		
7.729	58565	47722	0.815	0.29		
7.799	51427	38037	0.740	0.25		
8.274	93839	83960	0.895	0.46		
8.376	30174	18402	0.610	0.14		
8.571	10424009	8615870	0.827	51.73	$ 12 Decachlorobiphenyl	
8.940	13007	10518	0.809	0.06		
9.462	18123	11743	0.648	0.08		
9.960	9936	10420	1.049	0.04		
	20193798	17726971		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.485	2.484	0.001	9319026	0.07558	38			

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3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

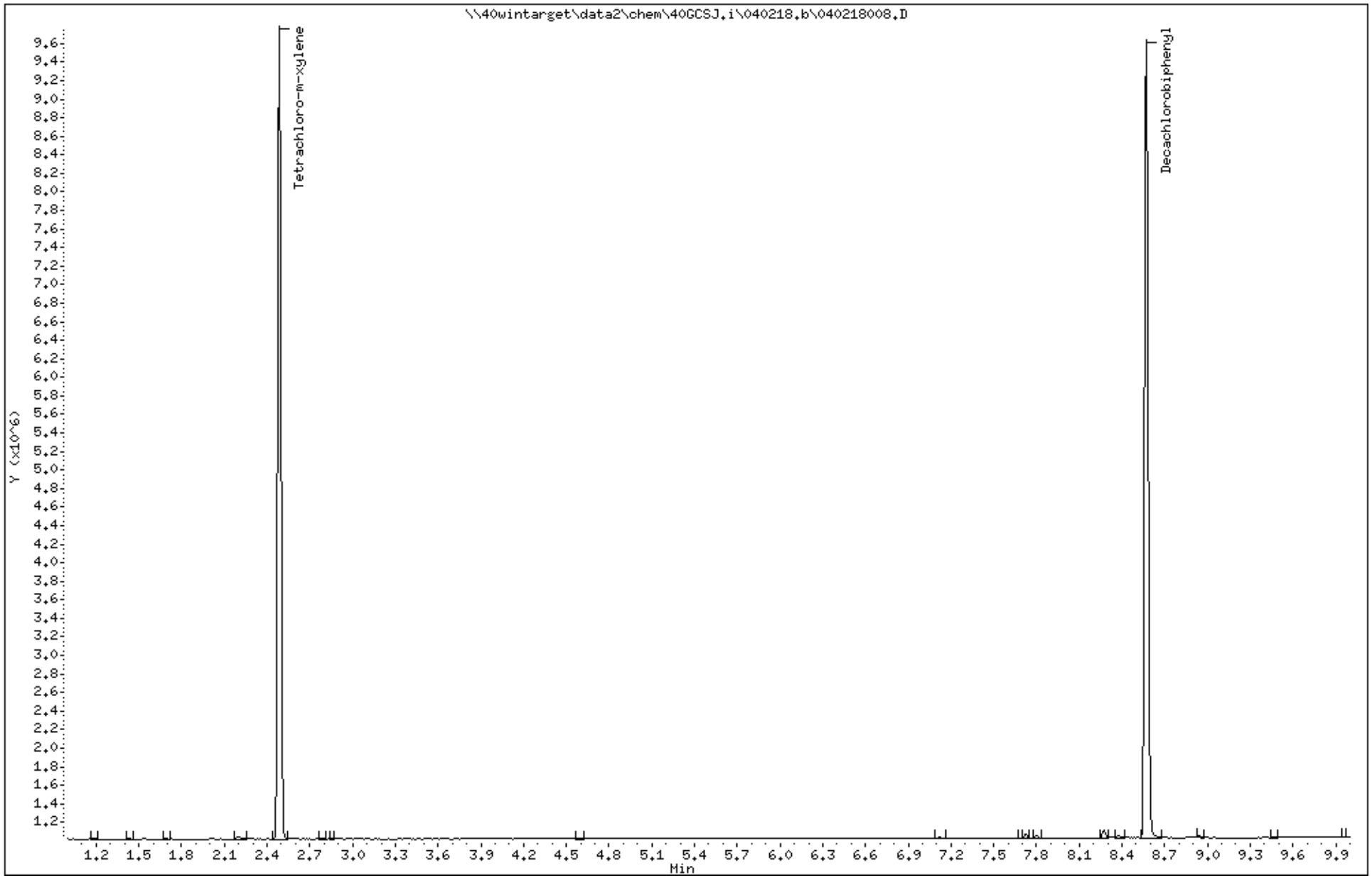
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	10424008	0.09514		48		

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Date : 02-APR-2018 16:16
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1666454,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666454

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	9319026	9319026	
Decachlorobiphenyl	10424008	10424008	

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.: 40157488

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666455

Date Analyzed: 04/02/2018 16:32

Lab File ID: 040218.B\040218009.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)	239	
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\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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
1.182	11970	7896	0.660	0.02		
1.429	11672	9667	0.828	0.02		
1.539	9958	8718	0.875	0.02		
1.804	16664	12611	0.757	0.03		
2.199	35742	23475	0.657	0.07		
2.406	113350	86784	0.766	0.24		
2.486	10551345	9921646	0.940	22.55	$ 2 Tetrachloro-m-xylene	
2.689	175447	137054	0.781	0.37		
2.790	213232	192132	0.901	0.45		
2.852	936213	837530	0.895	2.00		
3.055	122302	109989	0.899	0.26		
3.277	21273	17937	0.843	0.04		
3.318	1208889	1118049	0.925	2.58	3 Aroclor 1242	BA
3.345	679265	621260	0.915	1.45		
3.436	192069	172828	0.900	0.41		
3.513	1185841	860229	0.725	2.53	3 Aroclor 1242	BA
3.650	21015	14426	0.686	0.04		
3.695	33144	32002	0.966	0.07		
3.733	306516	303000	0.989	0.65		
3.755	206067	194508	0.944	0.44		
3.827	3432045	1988224	0.579	7.33	3 Aroclor 1242	BA
3.930	1480101	1216567	0.822	3.16	3 Aroclor 1242	BA
3.995	967862	915833	0.946	2.06	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	265065	236443	0.892	0.56	
4.136	109975	96485	0.877	0.23	
4.215	807119	766155	0.949	1.72	
4.261	764739	728240	0.952	1.63	
4.293	306549	321266	1.048	0.65	
4.310	391123	349553	0.894	0.83	
4.369	26440	20062	0.759	0.05	
4.418	1065424	999519	0.938	2.27	
4.453	823645	595451	0.723	1.76	
4.546	1343601	1237030	0.921	2.87	
4.591	19802	21902	1.106	0.04	
4.618	310631	277625	0.894	0.66	
4.676	23423	17831	0.761	0.05	
4.727	67956	57059	0.840	0.14	
4.769	72026	66770	0.927	0.15	
4.813	615954	593595	0.964	1.31	
4.848	1105748	1010615	0.914	2.36	
4.879	1395389	1063835	0.762	2.98	
4.958	148617	118625	0.798	0.31	
5.037	1151352	1038534	0.902	2.46	
5.100	236764	184716	0.780	0.50	
5.162	274401	250674	0.914	0.58	
5.212	197060	174416	0.885	0.42	
5.283	15130	16326	1.079	0.03	
5.307	48658	39928	0.821	0.10	
5.362	176954	146828	0.830	0.37	
5.408	287889	244276	0.849	0.61	
5.446	180428	155304	0.861	0.38	
5.509	470978	355501	0.755	1.00	
5.605	138437	122035	0.882	0.29	
5.674	13613	12172	0.894	0.02	
5.717	27335	22072	0.807	0.05	
5.741	36706	31753	0.865	0.07	
5.792	318771	241925	0.759	0.68	
5.890	48677	27974	0.575	0.10	
6.025	292551	209438	0.716	0.62	
6.087	80898	58438	0.722	0.17	
6.168	23390	18055	0.772	0.05	
6.299	62313	54407	0.873	0.13	
6.508	10112	10288	1.017	0.02	
6.538	28447	19449	0.684	0.06	
6.717	12300	11296	0.918	0.02	
6.801	13957	13045	0.935	0.02	
7.008	25742	17561	0.682	0.05	
7.121	25230	16505	0.654	0.05	
7.253	11542	7362	0.638	0.02	
7.690	11768	13012	1.106	0.02	
7.728	59891	51749	0.864	0.12	
7.800	43066	39933	0.927	0.09	
8.275	96826	87861	0.907	0.20	
8.376	18748	16082	0.858	0.04	
8.571	10669573	9236557	0.866	23.16	$ 12 Decachlorobiphenyl
9.274	9763	6428	0.658	0.02	
9.470	26561	17280	0.651	0.05	
9.963	33905	20208	0.596	0.07	
	46774943	40369814		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	10551344	0.08558	43			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1208888	0.47722	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1185841	0.47057	240	0.00- 20.00	98.09	BA
3.826	3.827	-0.001	3432045	0.48227	240	0.00- 20.00	283.90	BA
3.929	3.929	0.000	1480100	0.48663	240	0.00- 20.00	122.43	BA
3.994	3.995	-0.001	967862	0.47265	240	0.00- 20.00	80.06	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

8.571	8.571	0.000	10669573	0.09739	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\040218.b\040218009.D

Date : 02-APR-2018 16:32

Client ID: MBLCS

Instrument: 40GCSJ.i

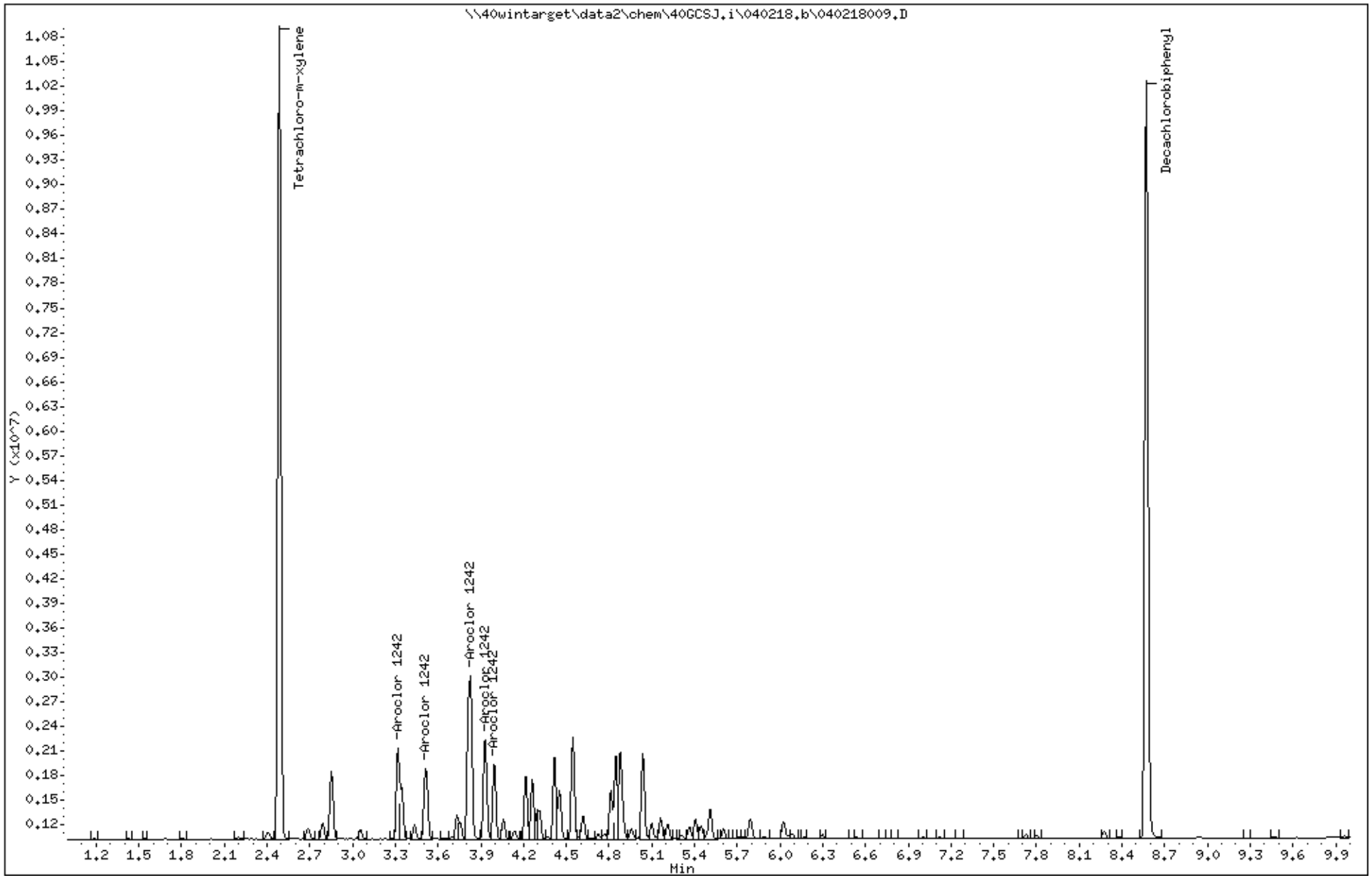
Sample Info: 1666455,

Volume Injected (uL): 1.0

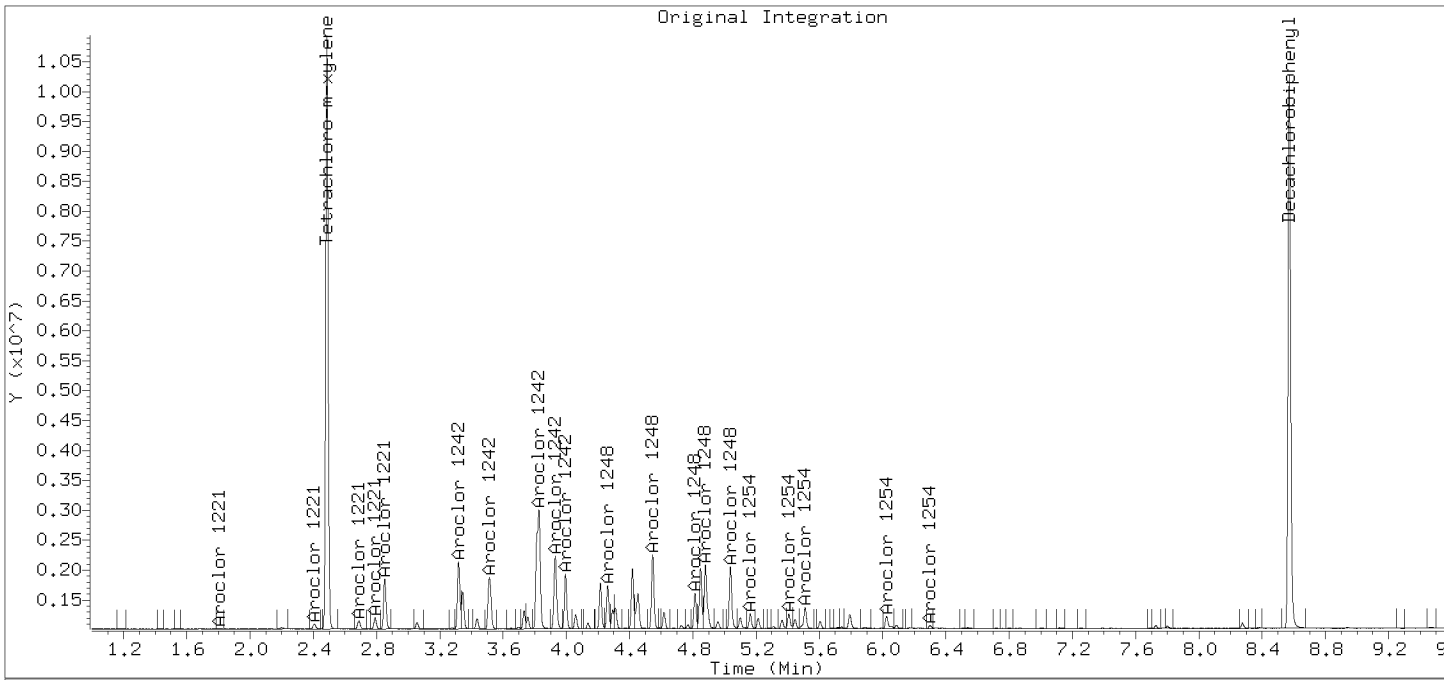
Operator: BLM

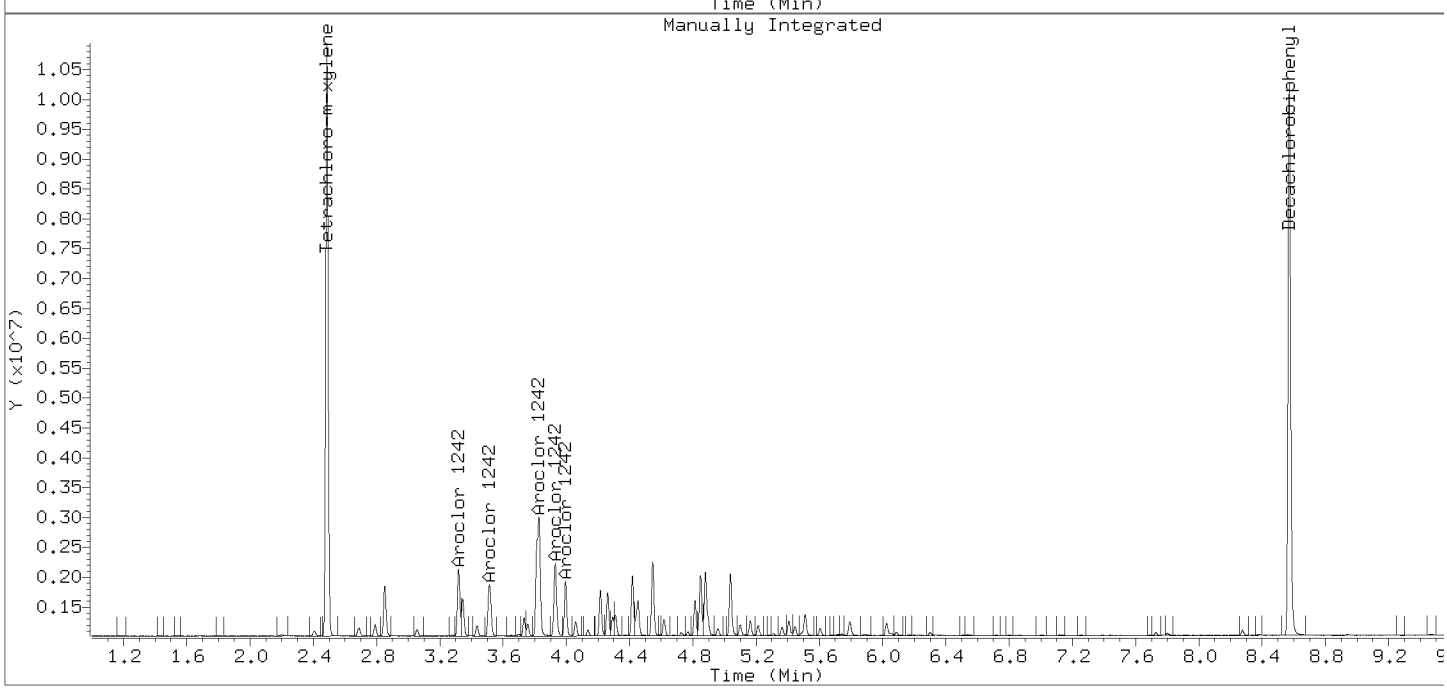
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666455





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	

Aroclor 1232	927588	0	
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10551344	10551344	
Decachlorobiphenyl	10669573	10669573	

==========

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.: 40157488

Date Extracted: 04/03/2018 07:20

Lab Sample ID: 1667970

Date Analyzed: 04/05/2018 15:11

Lab File ID: 040518.B\040518008.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\040518.b\040518008.D
Lab Smp Id: 1667970 Client Smp ID: MB
Inj Date : 05-APR-2018 15:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667970,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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
1.185	21651	14285	0.660	0.11		
2.199	22359	18525	0.829	0.11		
2.485	9132234	8661060	0.948	47.88	$ 2 Tetrachloro-m-xylene	
2.786	14827	14442	0.974	0.07		
2.922	10370	7516	0.725	0.05		
4.048	9489	7570	0.798	0.04		
4.241	13302	9256	0.696	0.06		
6.865	11480	8608	0.750	0.06		
7.121	24484	16837	0.688	0.12		
7.685	12112	9799	0.809	0.06		
7.727	51154	43216	0.845	0.26		
7.799	44954	36293	0.807	0.23		
8.274	100345	77739	0.775	0.52		
8.376	13386	12367	0.924	0.07		
8.570	9573180	7881612	0.823	50.29	$ 12 Decachlorobiphenyl	
8.937	14908	9280	0.623	0.07		
	19070235	16828405		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518008.D
Lab Smp Id: 1667970 Client Smp ID: MB
Inj Date : 05-APR-2018 15:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667970,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	9132233	0.07407	37			
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).

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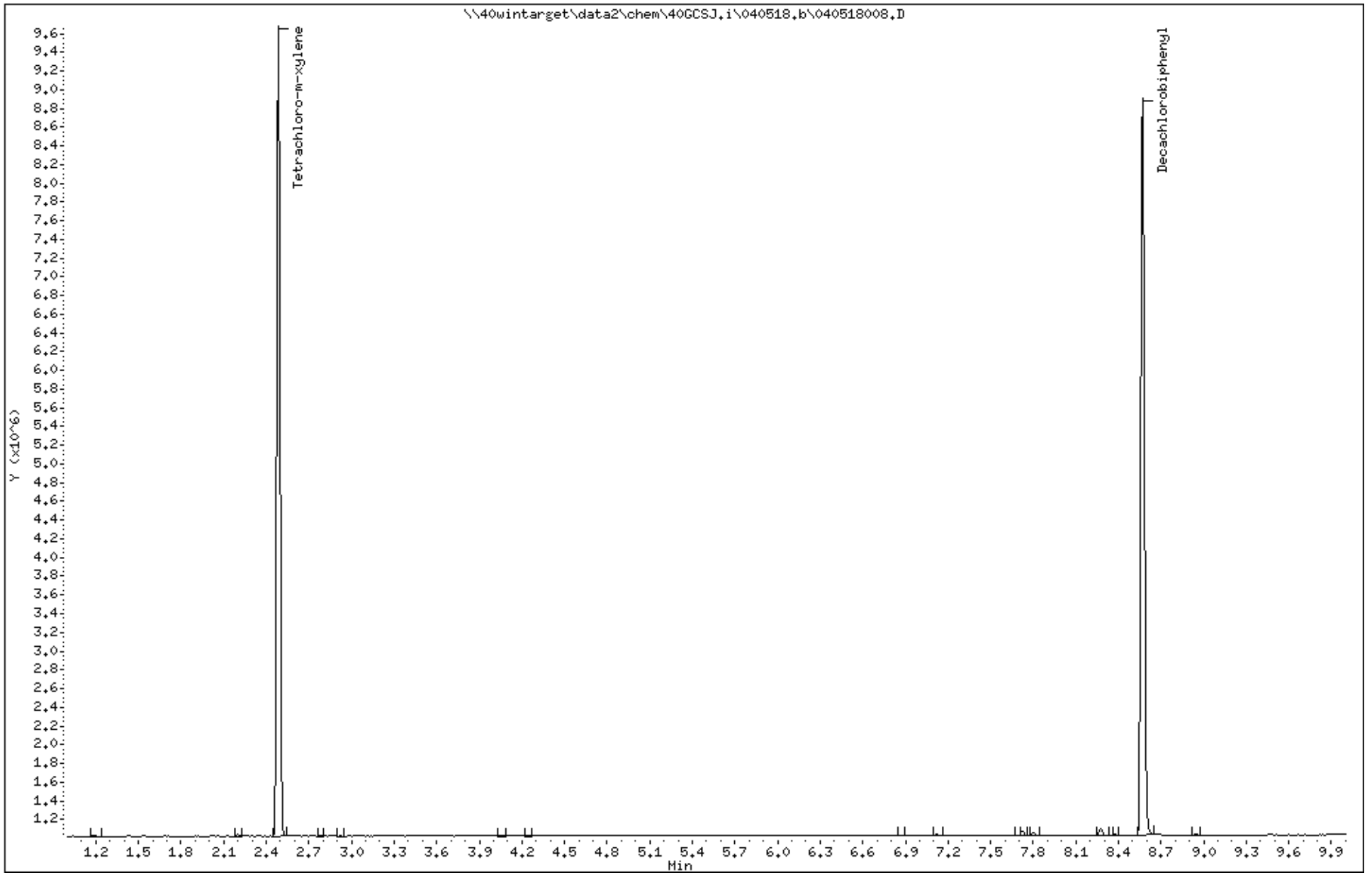
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9573180	0.08738		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518008.D
Date : 05-APR-2018 15:11
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1667970,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 15:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667970

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	9132233	9132233	
Decachlorobiphenyl	9573180	9573180	

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.: 40157488

Date Extracted: 04/03/2018 07:20

Lab Sample ID: 1667971

Date Analyzed: 04/05/2018 15:27

Lab File ID: 040518.B\040518009.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)	237	
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\040518.b\040518009.D
Lab Smp Id: 1667971 Client Smp ID: MBLCS
Inj Date : 05-APR-2018 15:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667971,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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
1.185	25638	19290	0.752	0.05		
1.428	14494	9122	0.629	0.03		
1.803	18196	13560	0.745	0.04		
2.012	15367	12158	0.791	0.03		
2.199	49645	28295	0.570	0.10		
2.406	114139	84380	0.739	0.25		
2.485	9587774	9008817	0.940	21.22	$ 2 Tetrachloro-m-xylene	
2.688	171325	140542	0.820	0.37		
2.790	207157	191273	0.923	0.45		
2.851	923275	831892	0.901	2.04		
2.913	11173	7294	0.653	0.02		
3.055	119600	108981	0.911	0.26		
3.279	23568	17239	0.731	0.05		
3.318	1205780	1109985	0.921	2.66	3 Aroclor 1242	BA
3.344	681364	629637	0.924	1.50		
3.435	192516	173849	0.903	0.42		
3.513	1183852	839592	0.709	2.62	3 Aroclor 1242	BA
3.652	21495	14542	0.677	0.04		
3.696	33773	32045	0.949	0.07		
3.732	313412	302075	0.964	0.69		
3.756	195183	188773	0.967	0.43		
3.827	3387142	1945221	0.574	7.49	3 Aroclor 1242	BA
3.929	1459983	1203518	0.824	3.23	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	956286	902059	0.943	2.11	3 Aroclor 1242
4.058	271619	238458	0.878	0.60	
4.136	111359	93580	0.840	0.24	
4.215	806421	768185	0.953	1.78	
4.261	765044	708656	0.926	1.69	
4.293	314349	318409	1.013	0.69	
4.311	382979	346689	0.905	0.84	
4.369	24361	19194	0.788	0.05	
4.417	1071151	1004497	0.938	2.37	
4.452	794961	600226	0.755	1.75	
4.546	1349409	1180589	0.875	2.98	
4.617	312180	273453	0.876	0.69	
4.679	21672	18913	0.873	0.04	
4.726	68456	55832	0.816	0.15	
4.770	73421	66133	0.901	0.16	
4.813	605891	575060	0.949	1.34	
4.848	1075729	1002372	0.932	2.38	
4.879	1391782	1008735	0.725	3.08	
4.957	155021	121582	0.784	0.34	
5.038	1121949	1026936	0.915	2.48	
5.098	241802	179567	0.743	0.53	
5.162	276230	241982	0.876	0.61	
5.212	197532	171279	0.867	0.43	
5.283	12803	15950	1.246	0.02	
5.309	51192	37780	0.738	0.11	
5.363	170276	144571	0.849	0.37	
5.407	293029	232792	0.794	0.64	
5.446	178301	154880	0.869	0.39	
5.509	465455	348370	0.748	1.03	
5.603	137440	115644	0.841	0.30	
5.716	29438	23422	0.796	0.06	
5.740	34227	30729	0.898	0.07	
5.792	314284	232178	0.739	0.69	
5.890	56143	28086	0.500	0.12	
6.025	243620	204965	0.841	0.53	
6.053	51091	43526	0.852	0.11	
6.170	26410	16990	0.643	0.05	
6.225	10421	8339	0.800	0.02	
6.300	65369	52770	0.807	0.14	
6.372	9436	7374	0.781	0.02	
6.447	14089	8314	0.590	0.03	
6.509	13203	11740	0.889	0.02	
6.533	19300	17083	0.885	0.04	
6.720	13170	11117	0.844	0.02	
6.802	12590	10608	0.843	0.02	
7.007	18270	18077	0.989	0.04	
7.120	13391	13718	1.024	0.02	
7.248	9938	9623	0.968	0.02	
7.390	10063	10594	1.053	0.02	
7.440	11608	9192	0.792	0.02	
7.687	11991	13680	1.141	0.02	
7.727	58179	48876	0.840	0.12	
7.779	13630	13853	1.016	0.03	
7.801	57397	41289	0.719	0.12	
8.275	96315	80309	0.834	0.21	
8.375	37567	23927	0.637	0.08	
8.571	10136668	8315434	0.820	22.83	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.942	42679	24612	0.577	0.09	
9.468	53086	26749	0.504	0.11	
9.961	38500	25606	0.665	0.08	
	45176025	38267233		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518009.D
Lab Smp Id: 1667971 Client Smp ID: MBLCS
Inj Date : 05-APR-2018 15:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667971,
Misc Info : 17626,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 12-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	9587773	0.07776	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1205780	0.47599	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1183851	0.46978	230	0.00- 20.00	98.18	BA
3.826	3.827	-0.001	3387141	0.47596	240	0.00- 20.00	280.91	BA
3.928	3.929	-0.001	1459982	0.48001	240	0.00- 20.00	121.08	BA
3.994	3.995	-0.001	956285	0.46699	230	0.00- 20.00	79.31	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

8.570	8.571	-0.001	10136667	0.09252	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\40GCSJ.i\040518.b\040518009.D

Date : 05-APR-2018 15:27

Client ID: MBLCS

Instrument: 40GCSJ.i

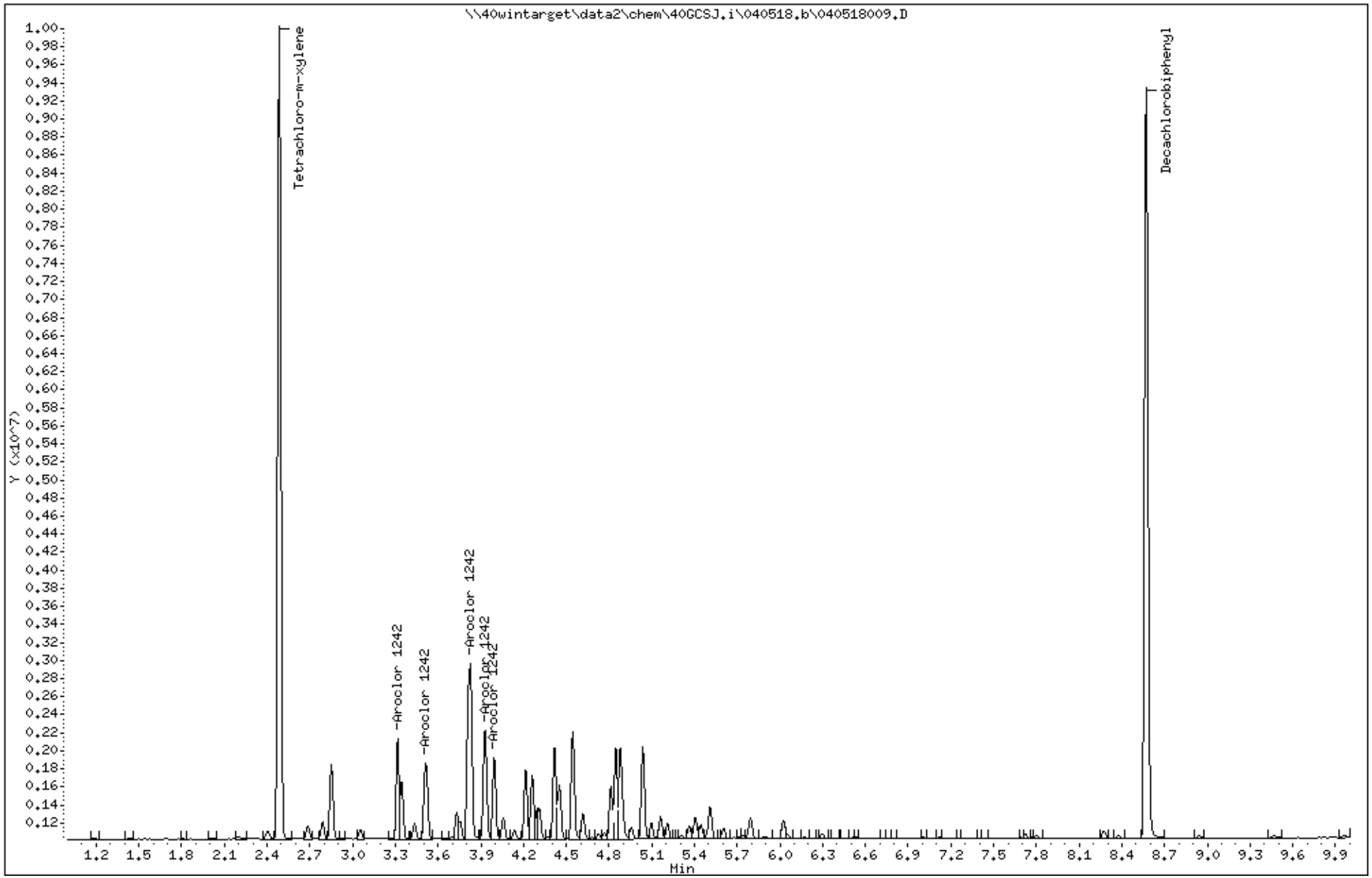
Sample Info: 1667971,

Volume Injected (uL): 1.0

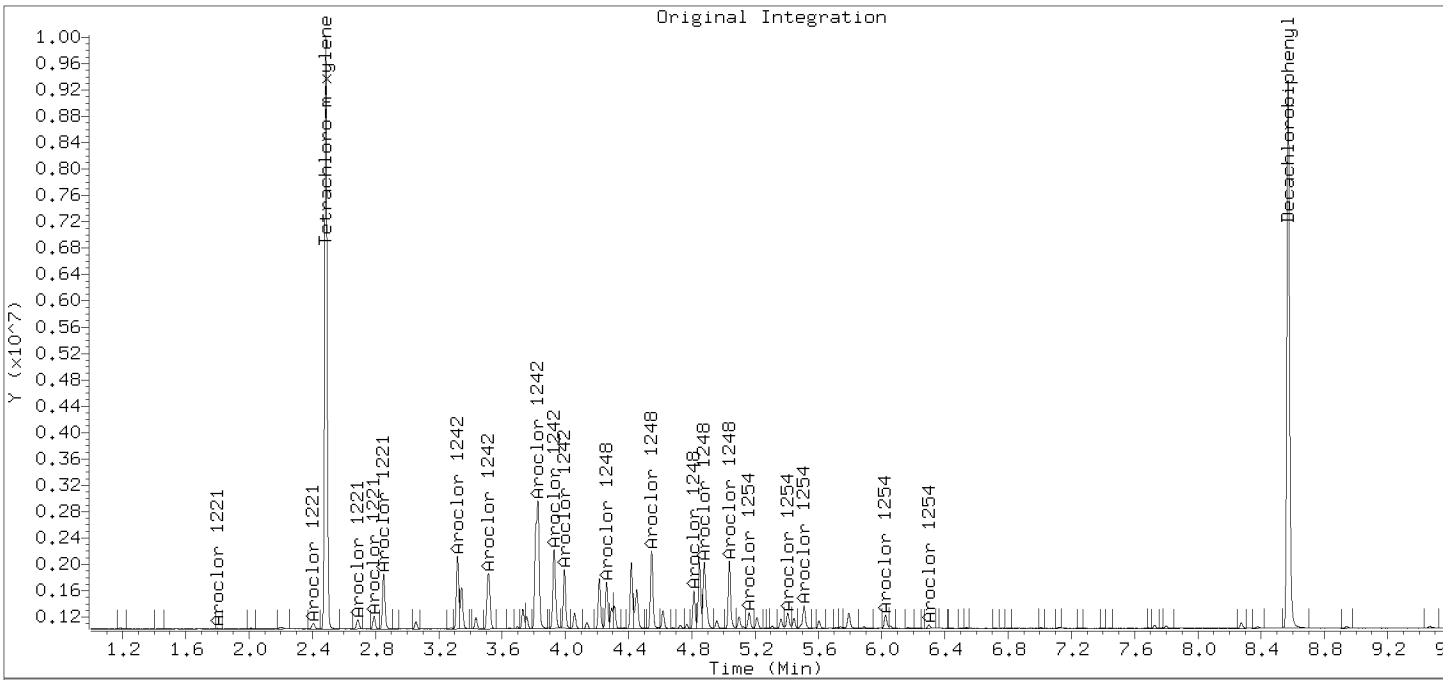
Operator: BLM

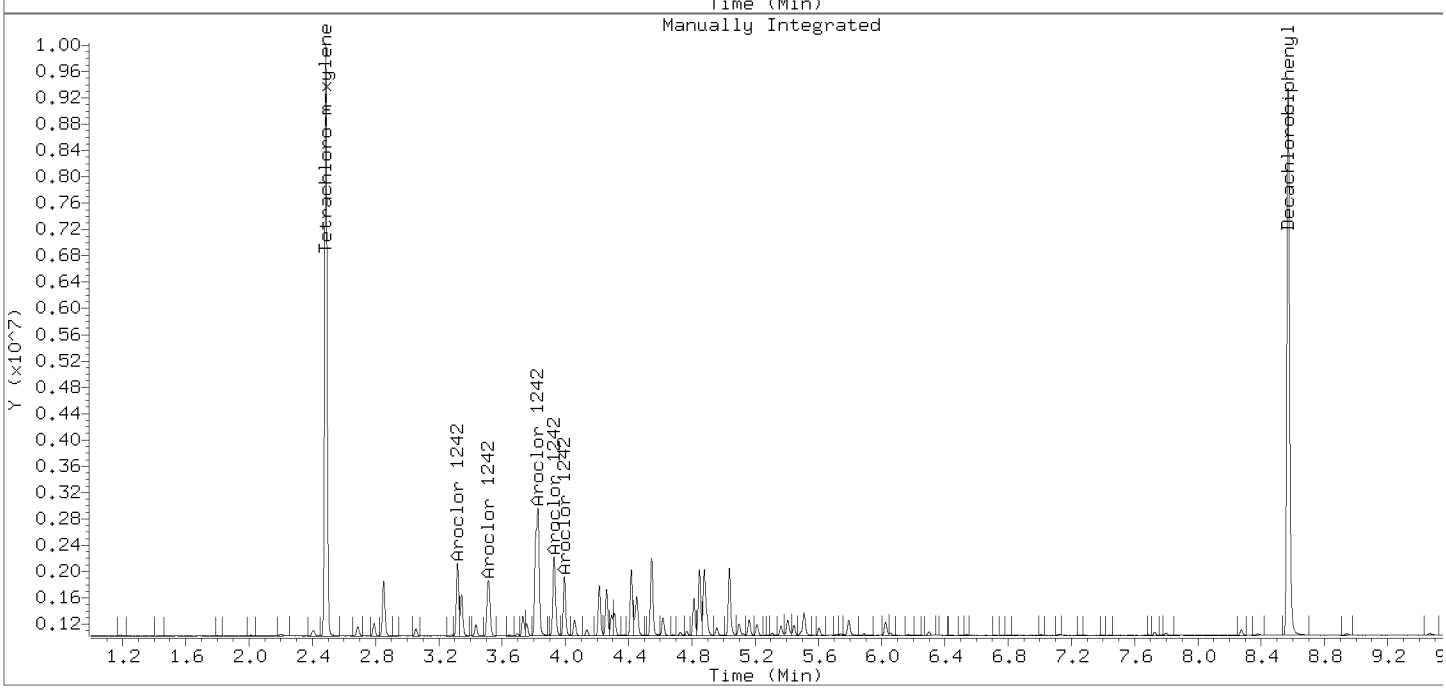
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 15:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667971





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1199255	0	
Aroclor 1016	1199255	0	
Aroclor 1016	1199255	0	
Aroclor 1016	1199255	0	
Aroclor 1016	1199255	0	
Aroclor 1221	18196	0	
Aroclor 1221	18196	0	
Aroclor 1221	18196	0	
Aroclor 1221	18196	0	
Aroclor 1221	18196	0	
Aroclor 1232	921256	0	
Aroclor 1232	921256	0	
Aroclor 1232	921256	0	
Aroclor 1232	921256	0	

Aroclor 1232	921256	0	
Aroclor 1242	1199255	1205780	BA
Aroclor 1242	1199255	1205780	BA
Aroclor 1242	1199255	1205780	BA
Aroclor 1242	1199255	1205780	BA
Aroclor 1242	1199255	1205780	BA
Aroclor 1248	758349	0	
Aroclor 1248	758349	0	
Aroclor 1248	758349	0	
Aroclor 1248	758349	0	
Aroclor 1248	758349	0	
Aroclor 1254	265692	0	
Aroclor 1254	265692	0	
Aroclor 1254	265692	0	
Aroclor 1254	265692	0	
Aroclor 1254	265692	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9587773	9587773	
Decachlorobiphenyl	10136667	10136667	

==========

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.: 40157488

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 1671063

Date Analyzed: 04/11/2018 15:19

Lab File ID: 041118.B\041118007.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\041118.b\041118007.D
Lab Smp Id: 1671063 Client Smp ID: MB
Inj Date : 11-APR-2018 15:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671063,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 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
1.431	10939	8677	0.793	0.05		
2.199	30973	16691	0.539	0.15		
2.485	9099391	8380032	0.921	46.60	$ 2 Tetrachloro-m-xylene	
2.789	17450	15327	0.878	0.08		
4.050	9696	6833	0.705	0.04		
5.950	9574	8297	0.867	0.04		
6.867	13145	10091	0.768	0.06		
7.120	29441	22103	0.751	0.15		
7.694	14662	12222	0.834	0.07		
7.726	60128	50369	0.838	0.30		
7.801	59480	47179	0.793	0.30		
8.274	93053	80601	0.866	0.47		
8.379	23305	16752	0.719	0.11		
8.570	9980347	8494283	0.851	51.22	$ 12 Decachlorobiphenyl	
8.944	25252	16330	0.647	0.12		
9.465	24632	17524	0.711	0.12		
9.963	23629	18999	0.804	0.12		
	19525098	17222310		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118007.D
Lab Smp Id: 1671063 Client Smp ID: MB
Inj Date : 11-APR-2018 15:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671063,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 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	9099390	0.07380	37			
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	9980346	0.09109	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118007.D

Date : 11-APR-2018 15:19

Client ID: MB

Instrument: 40GCSJ.i

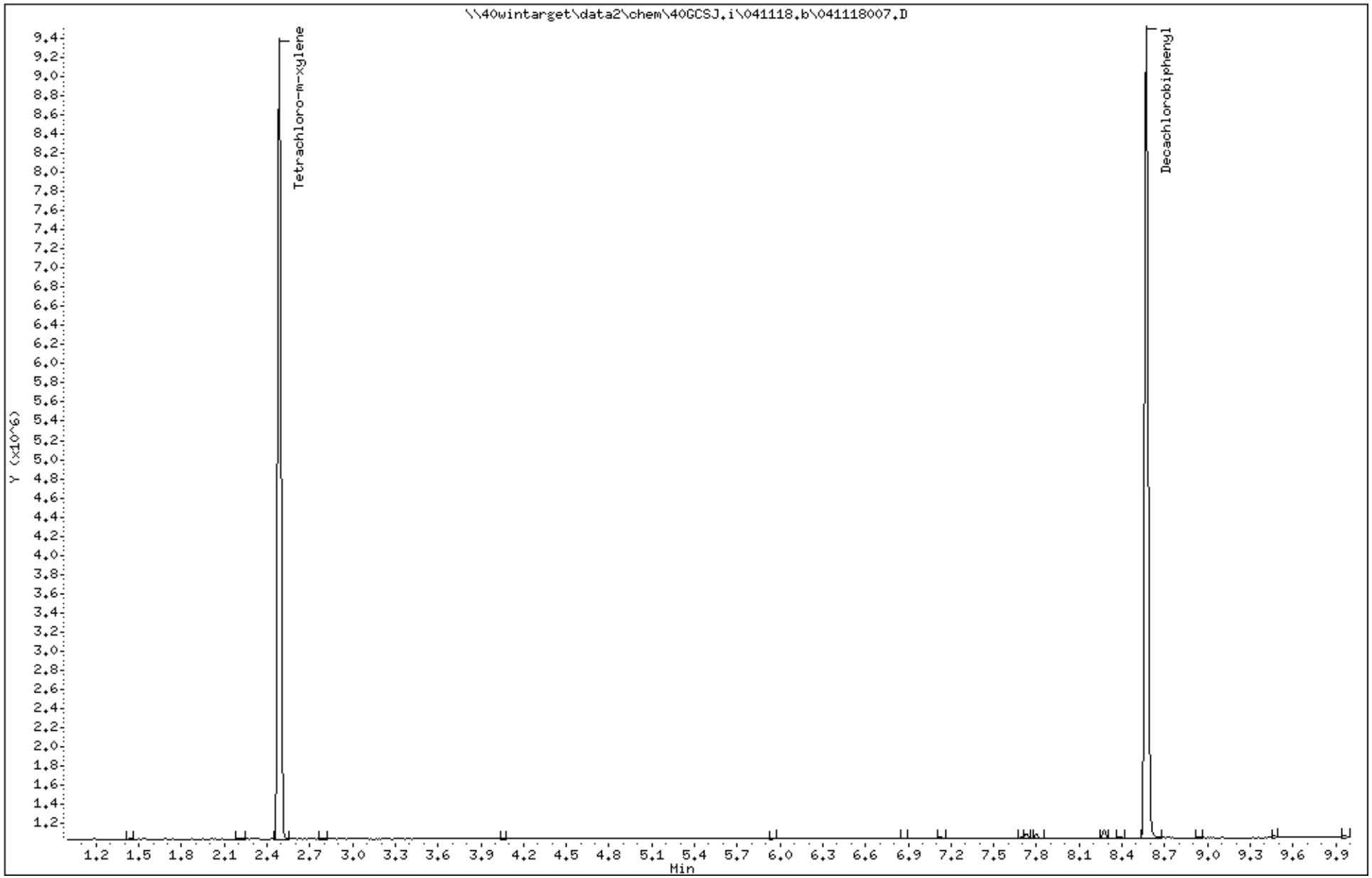
Sample Info: 1671063,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 15:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671063

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	9099390	9099390	
Decachlorobiphenyl	9980346	9980346	

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.: 40157488

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 1671064

Date Analyzed: 04/11/2018 15:35

Lab File ID: 041118.B\041118008.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)	238	
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\041118.b\041118008.D
Lab Smp Id: 1671064 Client Smp ID: MBLCS
Inj Date : 11-APR-2018 15:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671064,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 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
1.185	14690	10353	0.705	0.03		
1.426	13424	10013	0.746	0.02		
1.801	14396	12546	0.871	0.03		
2.197	39417	25700	0.652	0.08		
2.404	120464	89163	0.740	0.26		
2.485	10305752	9759729	0.947	22.83	$ 2 Tetrachloro-m-xylene	
2.688	171096	140358	0.820	0.37		
2.789	209406	194722	0.930	0.45		
2.851	940954	866703	0.921	2.04		
3.055	113553	106511	0.938	0.24		
3.280	26165	18889	0.722	0.05		
3.318	1198251	1115100	0.931	2.60	3 Aroclor 1242	BA
3.344	683448	629191	0.921	1.48		
3.435	192394	172561	0.897	0.41		
3.514	1189398	843699	0.709	2.58	3 Aroclor 1242	BA
3.695	35414	32006	0.904	0.07		
3.732	302025	299260	0.991	0.65		
3.757	207531	189514	0.913	0.45		
3.827	3418992	1975102	0.578	7.44	3 Aroclor 1242	BA
3.929	1462844	1232176	0.842	3.18	3 Aroclor 1242	BA
3.994	968261	921517	0.952	2.10	3 Aroclor 1242	BA
4.058	263491	241389	0.916	0.57		
4.137	110050	96175	0.874	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	789918	727665	0.921	1.71	
4.261	754855	708053	0.938	1.64	
4.292	308115	316311	1.027	0.67	
4.310	374020	349491	0.934	0.81	
4.371	33412	20157	0.603	0.07	
4.418	1058697	990971	0.936	2.30	
4.453	808904	590996	0.731	1.76	
4.547	1328086	1216888	0.916	2.89	
4.617	312101	278889	0.894	0.67	
4.679	27060	17833	0.659	0.05	
4.727	65986	57997	0.879	0.14	
4.768	74600	65083	0.872	0.16	
4.813	612525	604224	0.986	1.33	
4.848	1091885	1037979	0.951	2.37	
4.879	1382480	1025020	0.741	3.00	
4.958	151531	117181	0.773	0.32	
5.038	1154401	1050204	0.910	2.51	
5.099	235084	177762	0.756	0.51	
5.162	269682	236132	0.876	0.58	
5.212	199036	171039	0.859	0.43	
5.311	48912	40761	0.833	0.10	
5.363	180052	149585	0.831	0.39	
5.407	279627	243064	0.869	0.60	
5.446	183014	154665	0.845	0.39	
5.510	466881	348873	0.747	1.01	
5.604	142761	121803	0.853	0.31	
5.675	17331	13720	0.792	0.03	
5.714	27595	20655	0.749	0.06	
5.742	37734	30935	0.820	0.08	
5.793	318046	240017	0.755	0.69	
5.891	55038	28843	0.524	0.11	
6.024	290663	216832	0.746	0.63	
6.169	25664	16956	0.661	0.05	
6.301	54794	48872	0.892	0.11	
6.510	12226	11611	0.950	0.02	
6.538	22796	16570	0.727	0.04	
6.717	13980	10100	0.722	0.03	
6.804	13421	11746	0.875	0.02	
6.867	10083	9188	0.911	0.02	
7.004	16072	13971	0.869	0.03	
7.124	28481	21486	0.754	0.06	
7.390	9998	8339	0.834	0.02	
7.691	16214	15703	0.968	0.03	
7.726	66681	56042	0.840	0.14	
7.801	62374	52006	0.834	0.13	
8.277	108583	86604	0.798	0.23	
8.376	25642	17920	0.699	0.05	
8.571	10244904	8758801	0.855	22.30	$ 12 Decachlorobiphenyl
8.942	36637	21450	0.585	0.07	
9.470	39843	27127	0.681	0.08	
9.962	45038	27504	0.611	0.09	
	45934875	39584001		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118008.D
Lab Smp Id: 1671064 Client Smp ID: MBLCS
Inj Date : 11-APR-2018 15:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671064,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 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			
2.484	2.484	0.000	10305751	0.08359	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1198251	0.47302	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1189397	0.47198	240	0.00- 20.00	99.26	BA
3.826	3.827	-0.001	3418991	0.48043	240	0.00- 20.00	285.33	BA
3.929	3.929	0.000	1462843	0.48096	240	0.00- 20.00	122.08	BA
3.994	3.995	-0.001	968261	0.47284	240	0.00- 20.00	80.81	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

8.570	8.571	-0.001	10244904	0.09351		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\40GCSJ.i\041118.b\041118008.D

Date : 11-APR-2018 15:35

Client ID: MBLCS

Instrument: 40GCSJ.i

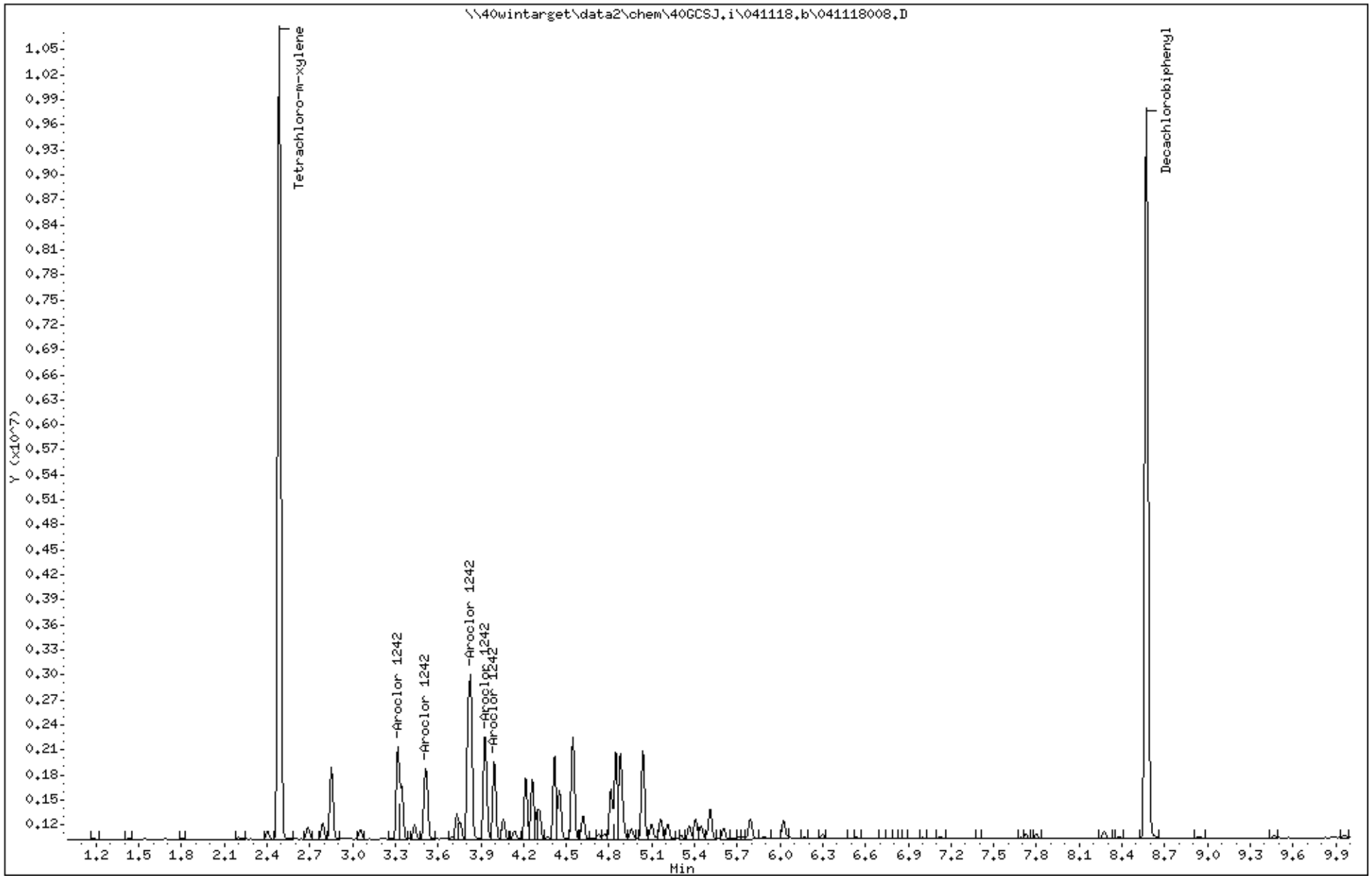
Sample Info: 1671064,

Volume Injected (uL): 1.0

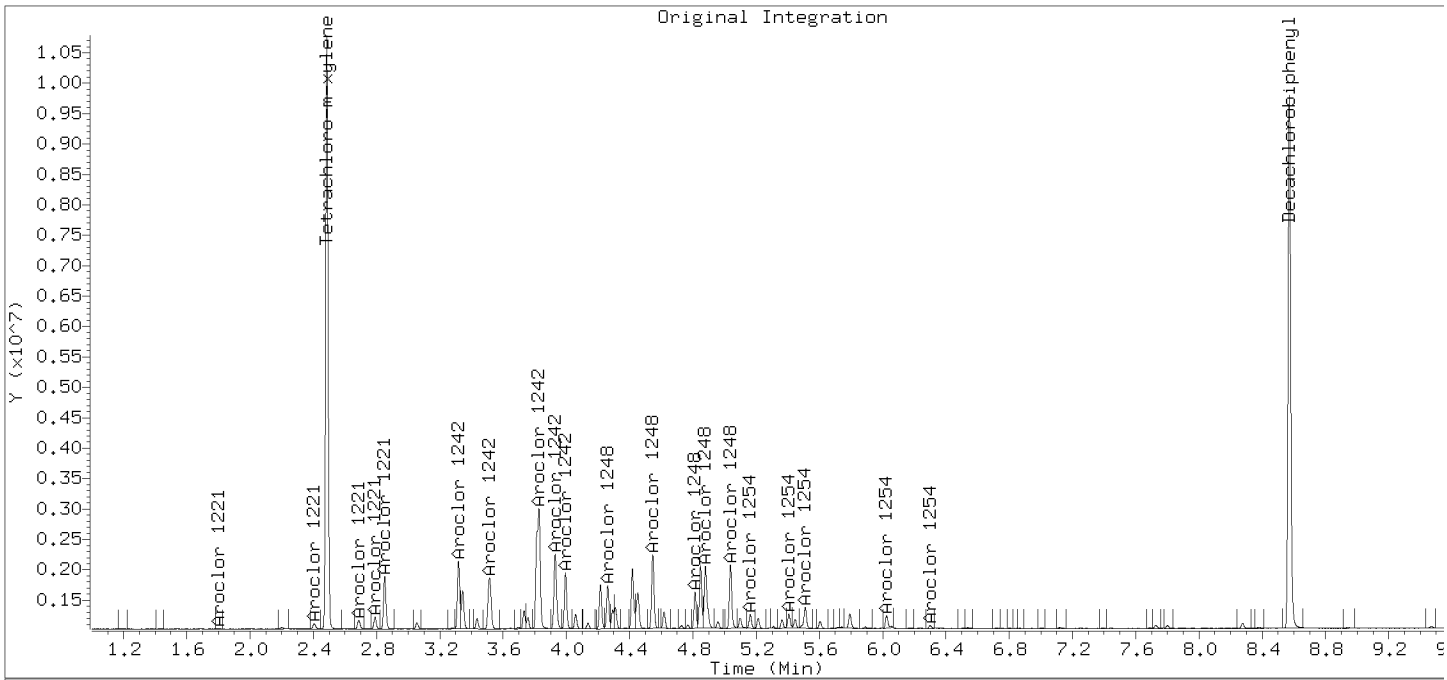
Operator: BLM

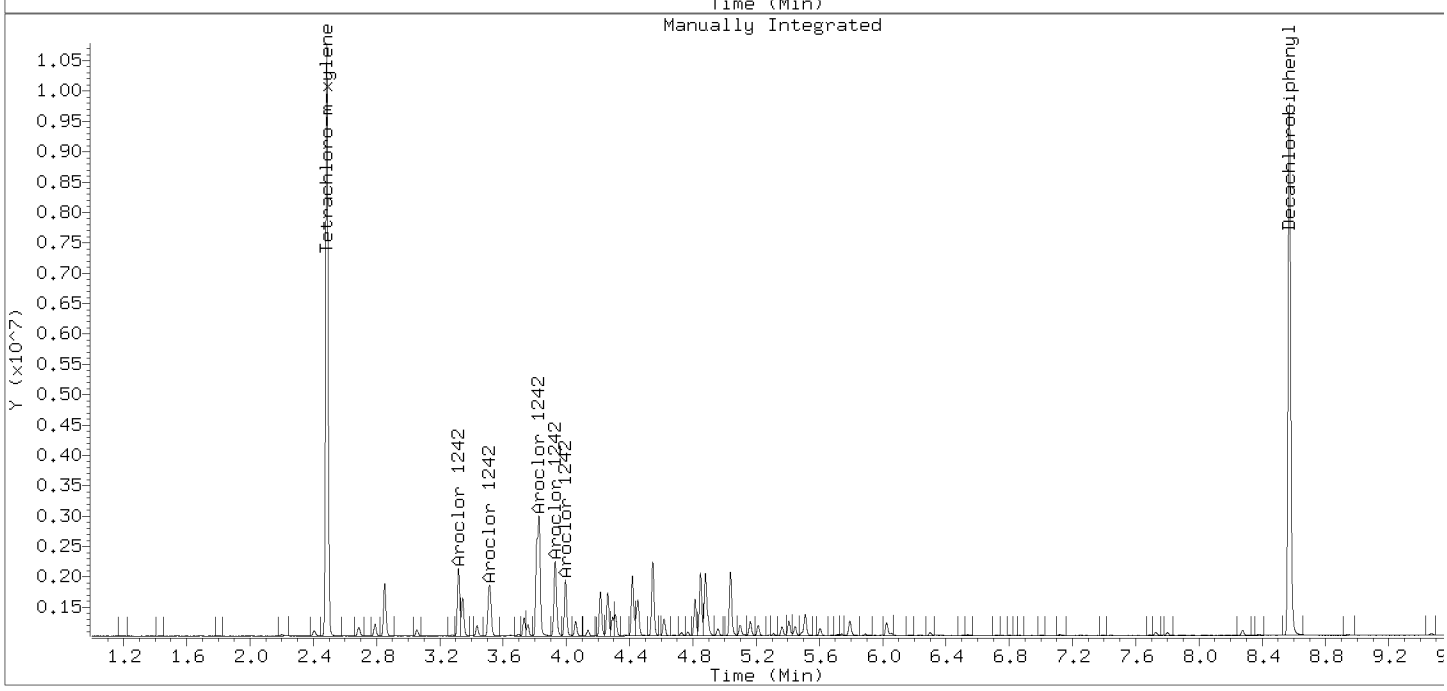
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 15:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671064





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1188648	0	
Aroclor 1016	1188648	0	
Aroclor 1016	1188648	0	
Aroclor 1016	1188648	0	
Aroclor 1016	1188648	0	
Aroclor 1221	14396	0	
Aroclor 1221	14396	0	
Aroclor 1221	14396	0	
Aroclor 1221	14396	0	
Aroclor 1221	14396	0	
Aroclor 1232	940954	0	
Aroclor 1232	940954	0	
Aroclor 1232	940954	0	
Aroclor 1232	940954	0	

Aroclor 1232	940954	0	
Aroclor 1242	1188648	1198251	BA
Aroclor 1242	1188648	1198251	BA
Aroclor 1242	1188648	1198251	BA
Aroclor 1242	1188648	1198251	BA
Aroclor 1242	1188648	1198251	BA
Aroclor 1248	747299	0	
Aroclor 1248	747299	0	
Aroclor 1248	747299	0	
Aroclor 1248	747299	0	
Aroclor 1248	747299	0	
Aroclor 1254	245064	0	
Aroclor 1254	245064	0	
Aroclor 1254	245064	0	
Aroclor 1254	245064	0	
Aroclor 1254	245064	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10305751	10305751	
Decachlorobiphenyl	10244904	10244904	

==========

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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157488

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 1671101

Date Analyzed: 04/11/2018 16:07

Lab File ID: 041118.B\041118010.D

Initial wt/vol: 9.9687 g Final wt/vol: 5 mL Dilution: 5

Instrument: 40GCSJ 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)	445	
12672-29-6	PCB-1248 (Aroclor 1248)	1330	
11097-69-1	PCB-1254 (Aroclor 1254)	1060	
11096-82-5	PCB-1260 (Aroclor 1260)	307	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118010.D
Lab Smp Id: 1671101 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 16:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671101 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.805	16540	11664	0.705	0.02		
2.409	105912	75256	0.711	0.16		
2.485	2488017	2336018	0.939	3.76	$ 2 Tetrachloro-m-xylene	BA
2.687	55327	40086	0.725	0.08		
2.789	69096	56757	0.821	0.10		
2.850	258725	232079	0.897	0.39		
2.974	22575	13822	0.612	0.03		
3.018	16118	13406	0.832	0.02		
3.055	137575	123021	0.894	0.20		
3.318	345948	320416	0.926	0.52	3 Aroclor 1242	
3.344	244632	225501	0.922	0.36		
3.434	185239	170546	0.921	0.28		
3.517	430900	327063	0.759	0.65	3 Aroclor 1242	
3.646	27727	22161	0.799	0.04		
3.695	11327	12551	1.108	0.01		
3.732	246556	241086	0.978	0.37		
3.755	118204	115101	0.974	0.17		
3.826	1604754	917717	0.572	2.42	3 Aroclor 1242	
3.930	523686	365805	0.699	0.79	3 Aroclor 1242	
3.993	385838	353690	0.917	0.58	3 Aroclor 1242	
4.058	144294	131716	0.913	0.21		
4.136	45828	38951	0.850	0.06		
4.215	1719227	1569415	0.913	2.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1848474	1702404	0.921	2.79	6 Aroclor 1248
4.292	2162009	1731244	0.801	3.26	
4.417	778836	725547	0.932	1.17	
4.452	678365	589736	0.869	1.02	
4.546	1463812	1354142	0.925	2.21	6 Aroclor 1248
4.589	190935	176612	0.925	0.28	
4.617	183877	160500	0.873	0.27	
4.681	188984	170111	0.900	0.28	
4.735	257247	197159	0.766	0.38	
4.768	356427	333833	0.937	0.53	
4.813	1198599	1130058	0.943	1.81	6 Aroclor 1248
4.848	1042963	1001863	0.961	1.57	
4.879	3032527	1696429	0.559	4.58	6 Aroclor 1248
4.957	727233	630160	0.867	1.09	
5.037	1123096	1031055	0.918	1.69	6 Aroclor 1248
5.101	1326494	1174649	0.886	2.00	
5.161	2352865	2025519	0.861	3.55	7 Aroclor 1254
5.212	1905475	1650655	0.866	2.88	
5.285	213315	210417	0.986	0.32	
5.308	380260	300879	0.791	0.57	
5.363	720704	666900	0.925	1.09	
5.406	1585386	1387865	0.875	2.39	7 Aroclor 1254
5.446	1278352	1086056	0.850	1.93	
5.479	217648	205451	0.944	0.32	
5.510	2640883	2287604	0.866	3.99	7 Aroclor 1254
5.577	171929	154296	0.897	0.26	
5.604	364084	312713	0.859	0.55	
5.675	858806	813537	0.947	1.29	
5.710	474822	361822	0.762	0.71	
5.742	665932	528289	0.793	1.00	
5.790	3823461	2887034	0.755	5.78	
5.886	356794	273195	0.766	0.53	
5.931	376041	295467	0.786	0.56	
5.993	822692	766939	0.932	1.24	
6.025	1702426	1410722	0.829	2.57	7 Aroclor 1254
6.056	2624291	2224137	0.848	3.96	
6.169	613712	420522	0.685	0.92	
6.227	249570	257509	1.032	0.37	
6.241	362498	298301	0.823	0.54	
6.300	3939553	3203542	0.813	6.47	7 Aroclor 1254
6.333	405579	355546	0.877	0.61	
6.374	188068	148326	0.789	0.28	
6.432	438676	365633	0.833	0.66	
6.508	1184430	1065736	0.900	1.79	
6.536	745307	661467	0.888	1.12	
6.560	302311	258935	0.857	0.45	
6.604	139559	113434	0.813	0.21	
6.661	71660	60631	0.846	0.10	
6.718	342634	291894	0.852	0.51	
6.758	384540	335654	0.873	0.58	
6.801	504454	452971	0.898	0.76	
6.839	246320	184960	0.751	0.37	
6.914	43715	44013	1.007	0.06	
6.942	226597	204701	0.903	0.34	
7.004	1047521	960844	0.917	1.58	8 Aroclor 1260
7.034	91149	99705	1.094	0.13	
7.076	18319	20129	1.099	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	42176	33221	0.788	0.06	
7.250	535819	488530	0.912	0.81	8 Aroclor 1260
7.281	178641	152335	0.853	0.27	
7.333	12876	10649	0.827	0.01	
7.389	482881	410628	0.850	0.73	
7.442	459581	391359	0.852	0.69	8 Aroclor 1260
7.552	26755	26467	0.989	0.04	
7.690	121121	108870	0.899	0.18	
7.726	109773	95896	0.874	0.16	
7.801	67437	42365	0.628	0.10	
7.899	305543	273703	0.896	0.46	8 Aroclor 1260
7.961	46981	28939	0.616	0.07	
8.050	44312	38927	0.878	0.06	
8.274	273390	253113	0.926	0.41	
8.454	12836	7847	0.611	0.01	
8.570	2431851	2094342	0.861	3.67	$ 12 Decachlorobiphenyl
8.940	22719	14059	0.619	0.03	
9.167	40372	30762	0.762	0.06	
9.468	31658	17414	0.550	0.04	
9.963	25511	17713	0.694	0.03	
	66118497	55710419		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118010.D
Lab Smp Id: 1671101 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 16:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671101 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								BA
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2488017	0.02018	51		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	345948	0.13657	340	0.00- 20.00	100.00(RM)	
3.516	3.513	0.003	430900	0.17099	430	0.00- 20.00	124.56	
3.825	3.827	-0.002	1597084	0.22442	560	0.00- 20.00	461.65	
3.930	3.929	0.001	517945	0.17029	430	0.00- 20.00	149.72	
3.993	3.995	-0.002	380224	0.18568	460	0.00- 20.00	109.91	
Average of Peak Concentrations =					440			

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	1848474	0.78894	2000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1463811	0.35270	880	0.00- 20.00	79.19	BA
4.812	4.812	0.000	1198599	0.59042	1500	0.00- 20.00	64.84	BA
4.879	4.879	0.000	3032527	0.60200	1500	0.00- 20.00	164.06	BA
5.036	5.038	-0.002	1123095	0.31297	780	0.00- 20.00	60.76	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2352865	0.44943	1100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1585385	0.36860	920	0.00- 20.00	67.38	BA
5.509	5.510	-0.001	2640882	0.34005	850	0.00- 20.00	112.24	BA
6.024	6.027	-0.003	1702425	0.34960	880	0.00- 20.00	72.36	BA
6.299	6.299	0.000	3939553	0.60542	1500	0.00- 20.00	167.44	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)	CO
7.004	7.006	-0.002	1047520	0.10460	260	0.00- 20.00	28.86	CO
7.249	7.251	-0.002	535819	0.11210	280	0.00- 20.00	13.60	CO
7.442	7.443	-0.001	459580	0.15765	400	0.00- 20.00	11.67	CO
7.898	7.901	-0.003	305543	0.11579	290	0.00- 20.00	7.76	CO
Average of Peak Concentrations =					310			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2431850	0.02220	56			

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\041118.b\041118010.D

Date : 11-APR-2018 16:07

Client ID: SW2-170614-01-SMB-0

Instrument: 40GCSJ.i

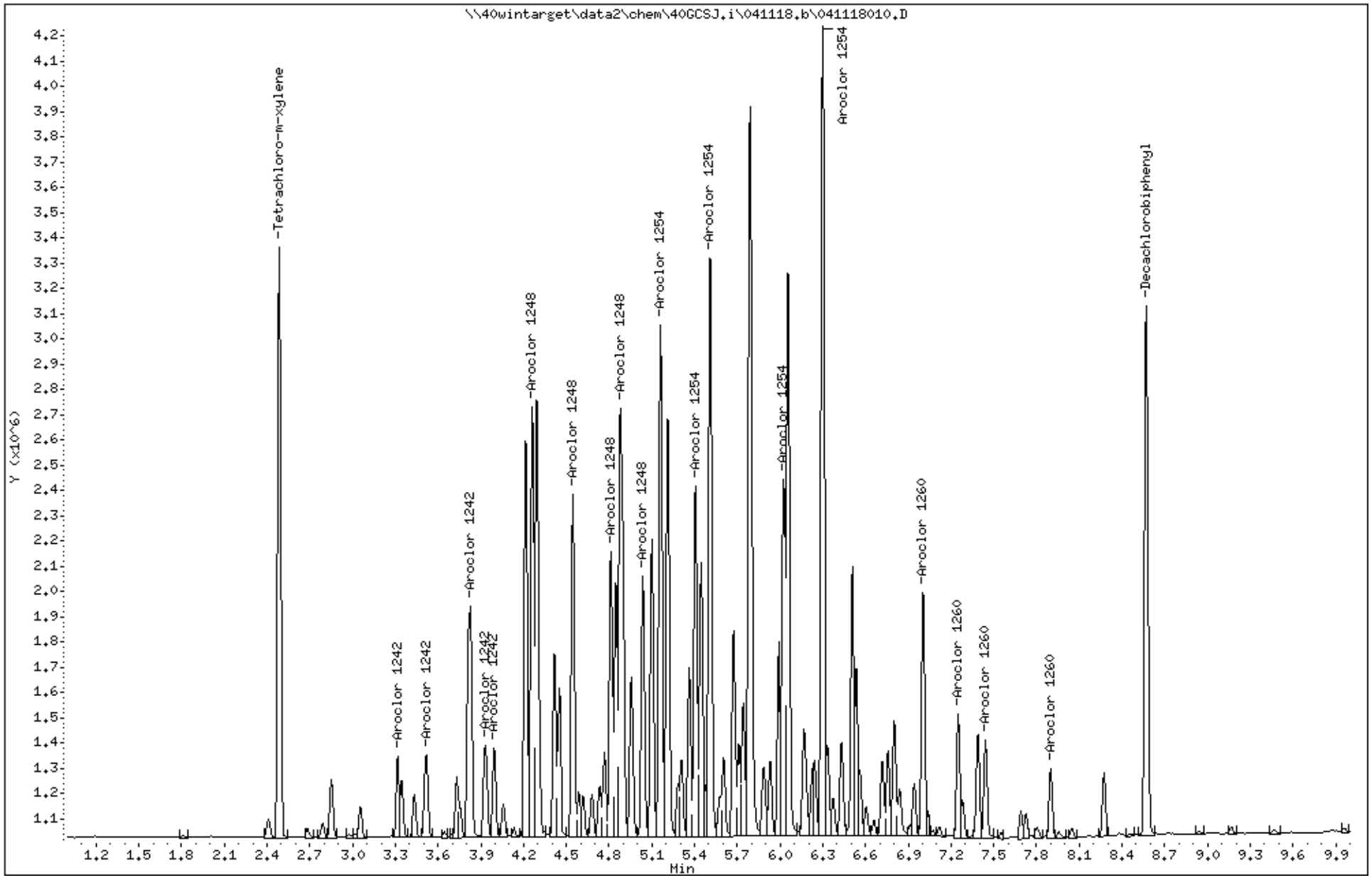
Sample Info: 1671101 x5,

Volume Injected (uL): 1.0

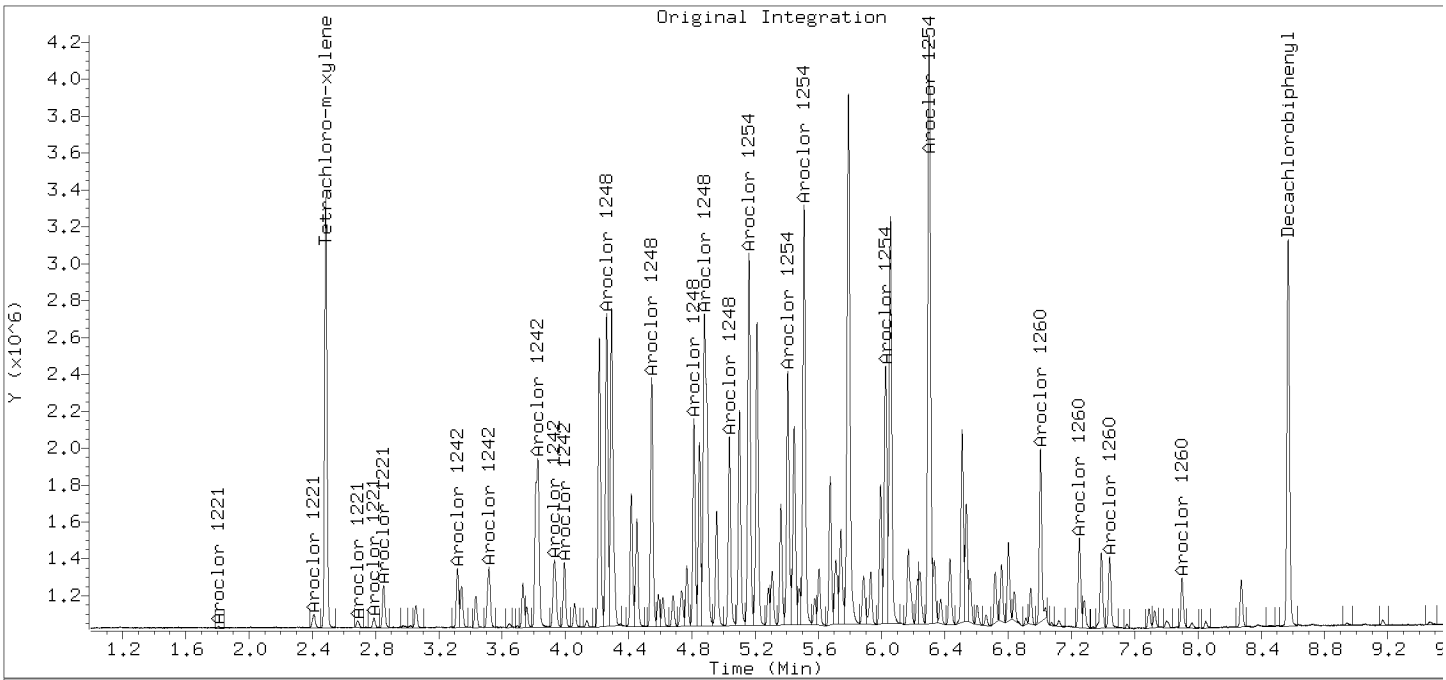
Operator: BLM

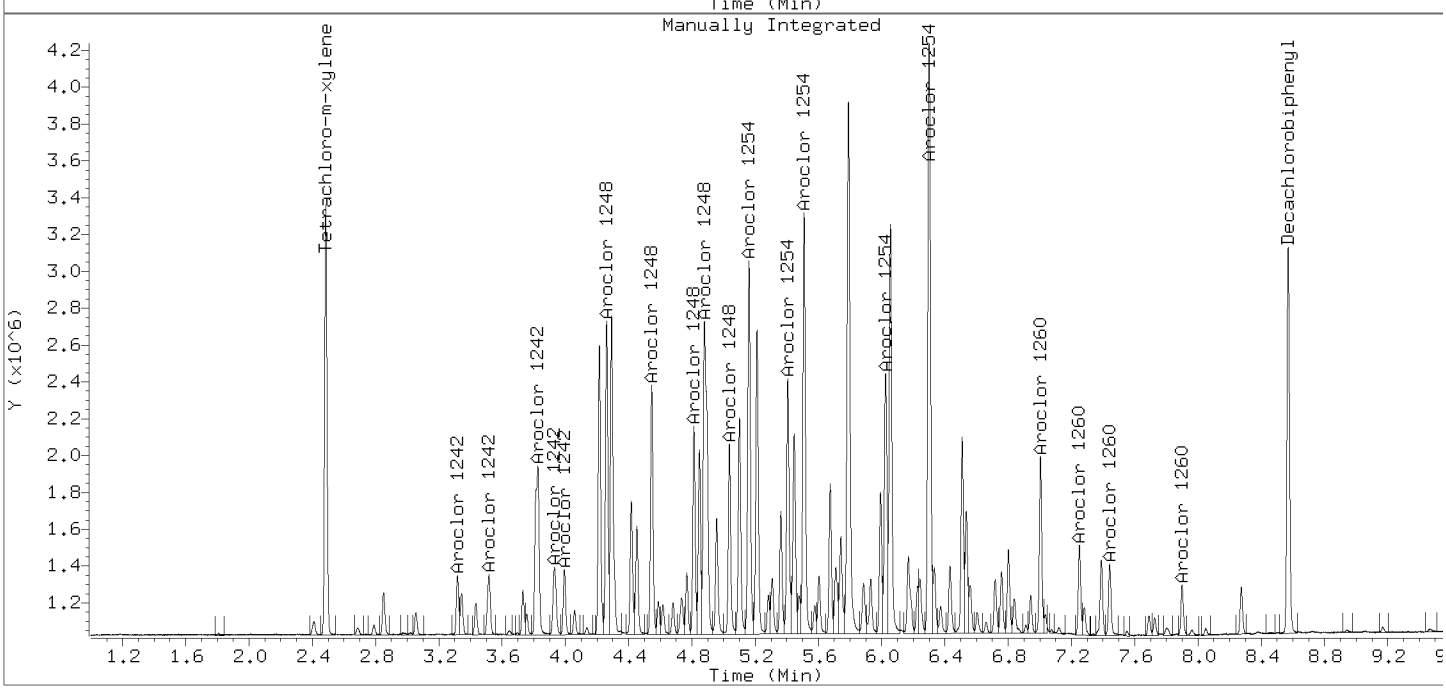
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 16:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671101





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	345948	0	
Aroclor 1016	345948	0	
Aroclor 1016	345948	0	
Aroclor 1016	345948	0	
Aroclor 1016	345948	0	
Aroclor 1221	16604	0	BA
Aroclor 1221	16604	0	BA
Aroclor 1221	16604	0	BA
Aroclor 1221	16604	0	BA
Aroclor 1221	16604	0	BA
Aroclor 1232	251305	0	
Aroclor 1232	251305	0	
Aroclor 1232	251305	0	
Aroclor 1232	251305	0	

Aroclor 1232	251305	0	
Aroclor 1242	345948	345948	
Aroclor 1242	345948	345948	
Aroclor 1242	345948	345948	
Aroclor 1242	345948	345948	
Aroclor 1242	345948	345948	
Aroclor 1248	1832995	1848474	BA
Aroclor 1248	1832995	1848474	BA
Aroclor 1248	1832995	1848474	BA
Aroclor 1248	1832995	1848474	BA
Aroclor 1248	1832995	1848474	BA
Aroclor 1254	2325922	2352865	BA
Aroclor 1254	2325922	2352865	BA
Aroclor 1254	2325922	2352865	BA
Aroclor 1254	2325922	2352865	BA
Aroclor 1254	2325922	2352865	BA
Aroclor 1260	3890598	0	CO
Aroclor 1260	3890598	0	CO
Aroclor 1260	3890598	0	CO
Aroclor 1260	3890598	0	CO
Aroclor 1260	3890598	0	CO
Tetrachloro-m-xylene	2480956	2488017	BA
Decachlorobiphenyl	2431850	2431850	

==========

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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157488

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 1671100

Date Analyzed: 04/11/2018 16:23

Lab File ID: 041118.B\041118011.D

Initial wt/vol: 9.9798 g Final wt/vol: 5 mL Dilution: 5

Instrument: 40GCSJ 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)	1210	
11097-69-1	PCB-1254 (Aroclor 1254)	1080	
11096-82-5	PCB-1260 (Aroclor 1260)	331	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118011.D
Lab Smp Id: 1671100 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 16:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671100 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: FIELDDUP
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.980	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	74490	56231	0.755	0.11		
2.485	2389433	2173562	0.910	3.77	$ 2 Tetrachloro-m-xylene	
2.790	12227	13699	1.120	0.01		
2.849	32713	26223	0.802	0.05		
2.973	19932	13583	0.681	0.03		
3.015	11707	10157	0.868	0.01		
3.054	108428	97737	0.901	0.17		
3.317	73696	66510	0.902	0.11		
3.345	94748	85900	0.907	0.14		
3.434	146432	135374	0.924	0.23		
3.519	172033	152843	0.888	0.27		
3.645	26479	21649	0.818	0.04		
3.733	183274	174086	0.950	0.28		
3.755	78542	73678	0.938	0.12		
3.815	347853	412259	1.185	0.54		
3.826	494514	460039	0.930	0.78		
3.937	198001	156654	0.791	0.31		
3.994	179345	160994	0.898	0.28		
4.057	91497	81048	0.886	0.14		
4.138	26497	18445	0.696	0.04		
4.215	1620439	1486641	0.917	2.56		
4.261	1764622	1642510	0.931	2.78	6 Aroclor 1248	BA
4.292	2087419	1725111	0.826	3.30		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	557844	529365	0.949	0.88	
4.452	516139	461935	0.895	0.81	
4.546	1227118	1131685	0.922	1.94	6 Aroclor 1248
4.588	197192	181903	0.922	0.31	
4.618	121651	101434	0.834	0.19	
4.681	194176	173190	0.892	0.30	
4.738	254898	198053	0.777	0.40	
4.768	358795	332847	0.928	0.56	
4.812	1112422	1048433	0.942	1.75	6 Aroclor 1248
4.848	843467	802779	0.952	1.33	
4.880	2857979	1562807	0.547	4.51	6 Aroclor 1248
4.956	733410	629297	0.858	1.15	
5.036	890814	826134	0.927	1.40	6 Aroclor 1248
5.101	1335129	1184444	0.887	2.11	
5.161	2408461	2063410	0.857	3.80	7 Aroclor 1254
5.212	1950081	1705090	0.874	3.08	
5.284	229846	219573	0.955	0.36	
5.307	379207	310613	0.819	0.59	
5.362	719015	645849	0.898	1.13	
5.407	1575465	1385944	0.880	2.49	7 Aroclor 1254
5.447	1314542	1077477	0.820	2.07	
5.479	221401	209708	0.947	0.35	
5.509	2670083	2302582	0.862	4.22	7 Aroclor 1254
5.578	179685	168338	0.937	0.28	
5.604	348411	297258	0.853	0.55	
5.674	900679	847969	0.941	1.42	
5.711	476042	379032	0.796	0.75	
5.742	714365	536002	0.750	1.12	
5.790	3945911	2975768	0.754	6.23	
5.885	370814	286314	0.772	0.58	
5.931	387760	312393	0.806	0.61	
5.993	878496	809751	0.922	1.38	
6.025	1736573	1487548	0.857	2.74	7 Aroclor 1254
6.055	2789749	2373735	0.851	4.41	
6.168	644603	441000	0.684	1.01	
6.230	240541	272312	1.132	0.38	
6.242	401363	309910	0.772	0.63	
6.300	4153009	3359057	0.809	7.02	7 Aroclor 1254
6.333	423962	373330	0.881	0.67	
6.374	190544	154687	0.812	0.30	
6.432	468623	385050	0.822	0.74	
6.510	1258180	1136029	0.903	1.98	
6.535	790916	693077	0.876	1.25	
6.560	308118	292591	0.950	0.48	
6.604	143848	118288	0.822	0.22	
6.660	77982	64627	0.829	0.12	
6.718	362341	317103	0.875	0.57	
6.757	405507	362687	0.894	0.64	
6.802	534358	461344	0.863	0.84	
6.838	260753	188282	0.722	0.41	
6.912	48178	44873	0.931	0.07	
6.944	238760	214605	0.899	0.37	
7.003	1111228	983651	0.885	1.75	8 Aroclor 1260
7.034	115746	106924	0.924	0.18	
7.075	20198	18808	0.931	0.03	
7.122	34071	30863	0.906	0.05	
7.251	567420	509558	0.898	0.89	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	194136	158888	0.818	0.30	
7.334	14501	11803	0.814	0.02	
7.389	515789	440233	0.854	0.81	
7.442	501188	438356	0.875	0.79	8 Aroclor 1260
7.551	27045	25344	0.937	0.04	
7.691	128904	114032	0.885	0.20	
7.727	118491	102659	0.866	0.18	
7.803	74906	45614	0.609	0.11	
7.900	332883	286325	0.860	0.52	8 Aroclor 1260
7.960	47898	32745	0.684	0.07	
8.049	44980	40685	0.905	0.07	
8.274	299517	267922	0.895	0.47	
8.378	24996	13103	0.524	0.03	
8.570	2378812	1989680	0.836	3.76	$ 12 Decachlorobiphenyl
8.944	18535	13408	0.723	0.02	
9.169	45322	34594	0.763	0.07	
9.467	24706	17269	0.699	0.03	
9.960	25559	16385	0.641	0.04	
	63250357	53691294		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118011.D
Lab Smp Id: 1671100 Client Smp ID: SW2-170614-01-SMB-0
Inj Date : 11-APR-2018 16:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671100 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: FIELDDUP
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	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	9.980	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	2389433	0.01938	48			
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			
4.261	4.261	0.000	1764621	0.75315	1900	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1227118	0.29567	740	0.00- 20.00	69.54	BA
4.812	4.812	0.000	1112422	0.54797	1400	0.00- 20.00	63.04	BA
4.879	4.879	0.000	2857978	0.56735	1400	0.00- 20.00	161.96	BA
5.035	5.038	-0.003	890813	0.24824	620	0.00- 20.00	50.48	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2408460	0.46005	1200	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1575464	0.36630	920	0.00- 20.00	65.41	BA
5.509	5.510	-0.001	2670083	0.34381	860	0.00- 20.00	110.86	BA
6.025	6.027	-0.002	1736572	0.35661	890	0.00- 20.00	72.10	BA
6.299	6.299	0.000	4153008	0.63823	1600	0.00- 20.00	172.43	BA
Average of Peak Concentrations =					1100			
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
7.003	7.006	-0.003	1111227	0.11096	280	0.00- 20.00	26.76	BA
7.250	7.251	-0.001	567419	0.11871	300	0.00- 20.00	13.66	BA
7.441	7.443	-0.002	501187	0.17193	430	0.00- 20.00	12.07	BA
7.900	7.901	-0.001	332882	0.12615	320	0.00- 20.00	8.02	BA
Average of Peak Concentrations =					330			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2378812	0.02171	54			

QC Flag Legend

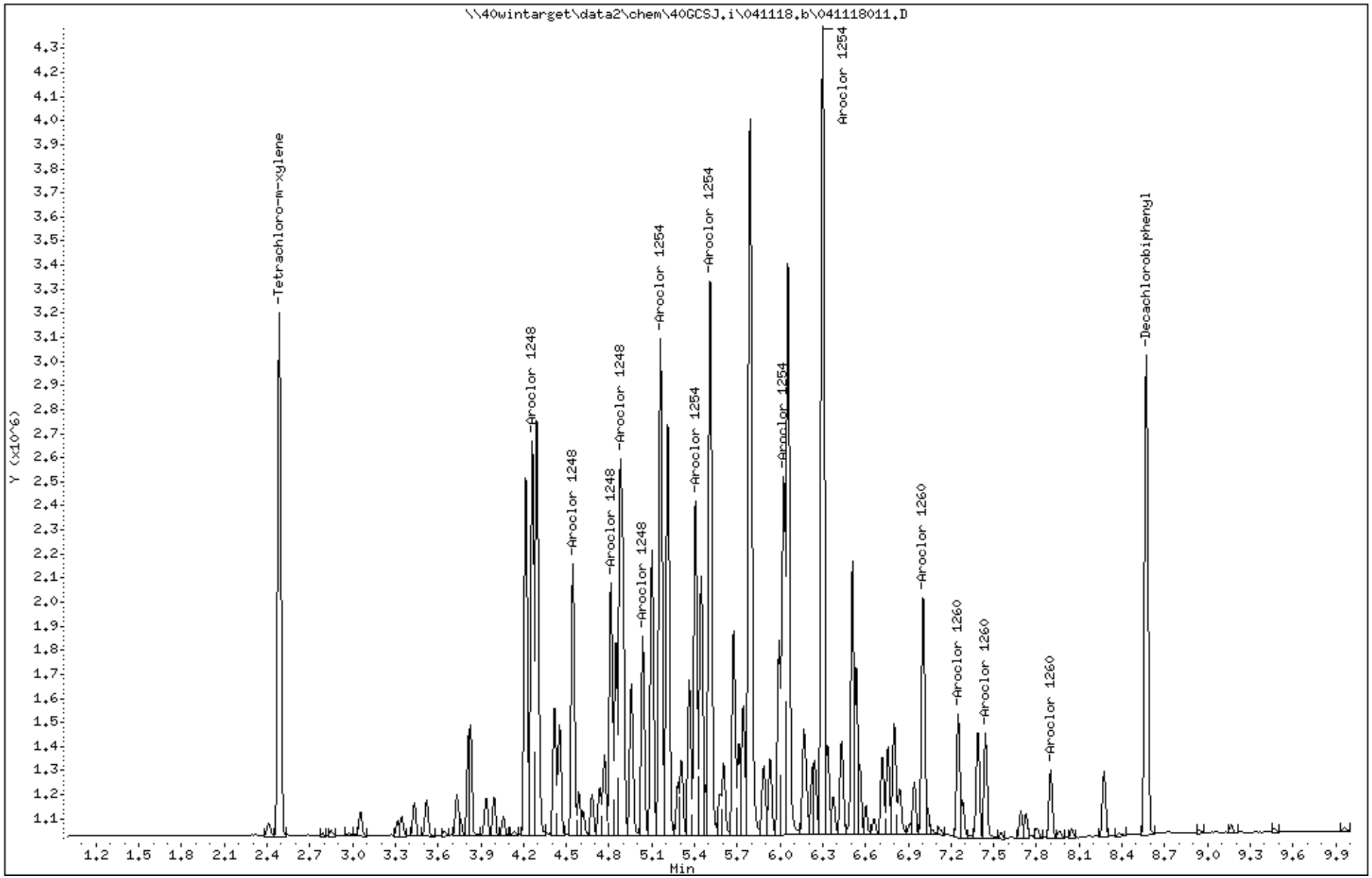
M - Compound response manually integrated.

Review Codes Legend

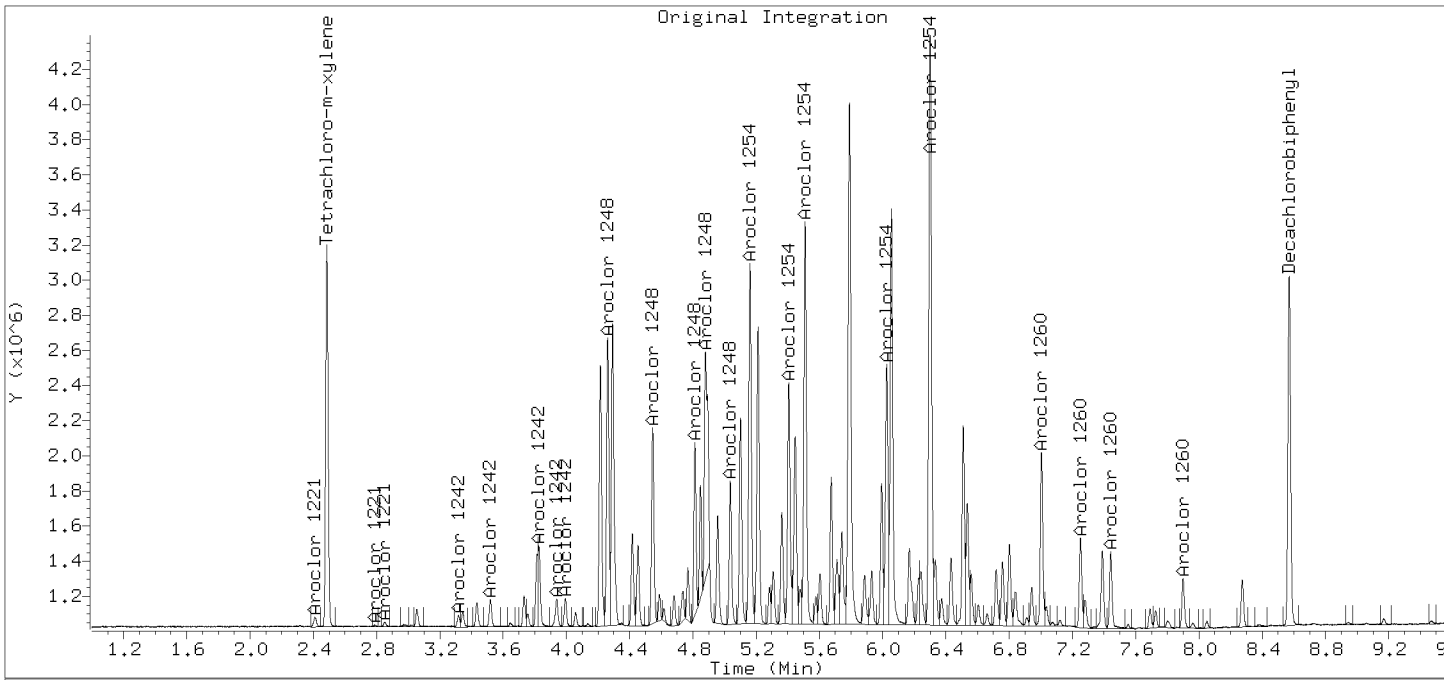
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

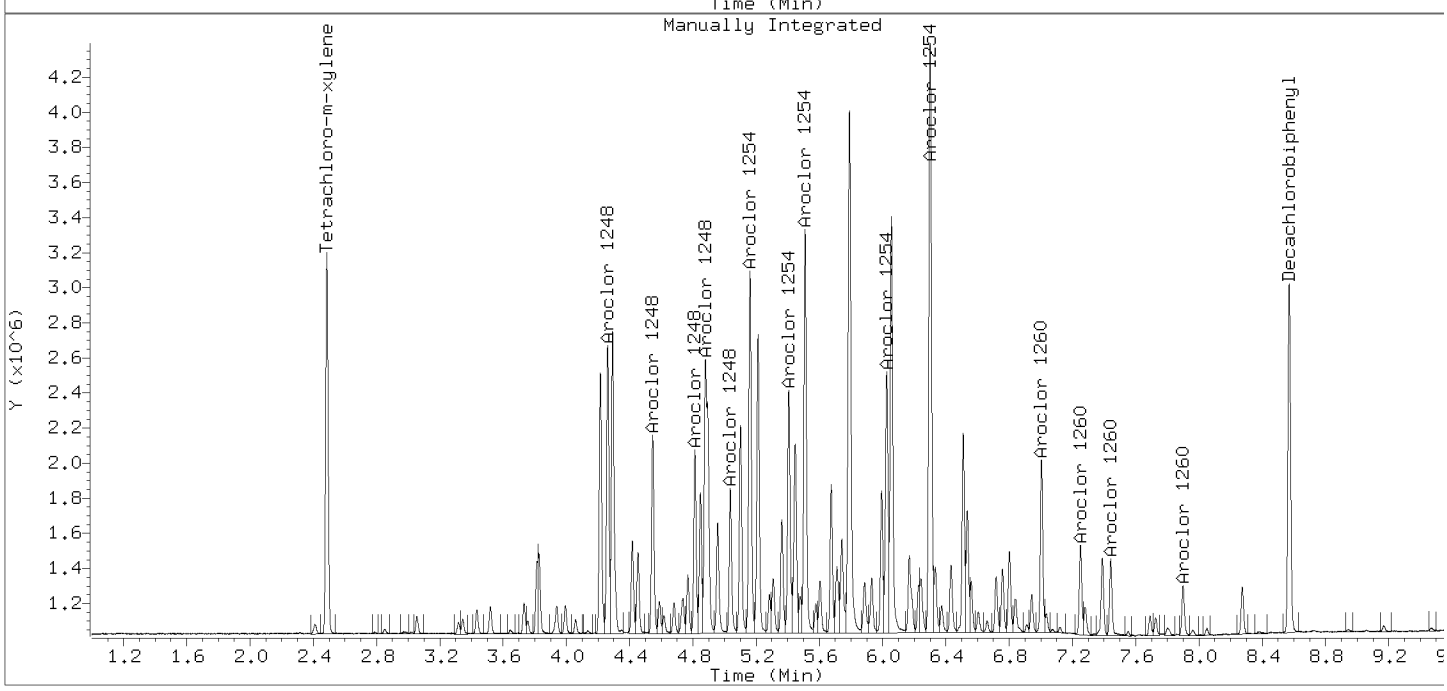
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118011.D
Date : 11-APR-2018 16:23
Client ID: SW2-170614-01-SMB-0
Sample Info: 1671100 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 16:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671100





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	73695	0	
Aroclor 1016	73695	0	
Aroclor 1016	73695	0	
Aroclor 1016	73695	0	
Aroclor 1016	73695	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32712	0	
Aroclor 1232	32712	0	
Aroclor 1232	32712	0	
Aroclor 1232	32712	0	

Aroclor 1232	32712	0	
Aroclor 1242	73695	0	
Aroclor 1242	73695	0	
Aroclor 1242	73695	0	
Aroclor 1242	73695	0	
Aroclor 1242	73695	0	
Aroclor 1248	1749815	1764621	BA
Aroclor 1248	1749815	1764621	BA
Aroclor 1248	1749815	1764621	BA
Aroclor 1248	1749815	1764621	BA
Aroclor 1248	1749815	1764621	BA
Aroclor 1254	2357387	2408460	BA
Aroclor 1254	2357387	2408460	BA
Aroclor 1254	2357387	2408460	BA
Aroclor 1254	2357387	2408460	BA
Aroclor 1254	2357387	2408460	BA
Aroclor 1260	4139912	0	BA
Aroclor 1260	4139912	0	BA
Aroclor 1260	4139912	0	BA
Aroclor 1260	4139912	0	BA
Aroclor 1260	4139912	0	BA
Tetrachloro-m-xylene	2389433	2389433	
Decachlorobiphenyl	2378812	2378812	

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Prep Log Report

Batch Information: OEXT 284601 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/29/2018 07:15:36:252
Spiked By	AMC	Spiked By Date/Time	03/29/2018 07:15:37:899	Witnessed By	ETB	Witnessed By Date/Time	03/29/2018 07:15:39:516
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	3/30/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	3/30/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 14:05	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	**1665641**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1665642**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157488001**	10.0326	5	3		189973 (.25)	
8082A TNYP	PS	**40157488002**	10.0297	5	3		189973 (.25)	
8082A TNYP	PS	**40157488003**	10.0216	5	3		189973 (.25)	
8082A TNYP	PS	**40157488004**	10.0282	5	3		189973 (.25)	
8082A TNYP	RQS	**40157488005**	9.9729	5	3		189973 (.25)	
8082A TNYP	MS	**1665643**	9.9994	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1665644**	9.9916	5	3		189973 (.25)	
8082A TNYP	PS	**40157489001**	9.9618	5	3		189973 (.25)	
8082A TNYP	PS	**40157489002**	9.9852	5	3		189973 (.25)	
8082A TNYP	PS	**40157489003**	9.9744	5	3		189973 (.25)	
8082A TNYP	PS	**40157489004**	9.9863	5	3		189973 (.25)	
8082A TNYP	PS	**40157489005**	9.9736	5	3		189973 (.25)	
8082A TNYP	PS	**40157825002**	9.9859	5	3		189973 (.25)	
8082A TNYP	PS	**40157825003**	9.9633	5	3		189973 (.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	**40157825004**	10.0359	5	3		189973 (.25)	
8082A TNYP	PS	**40157825005**	9.9722	5	3		189973 (.25)	
8082A TNYP	RQS	**40157825006**	10.0264	5	3		189973 (.25)	
8082A TNYP	DUP	**1665645**	9.9927	5	3		189973 (.25)	
8082A TNYP	PS	**40157825007**	10.0166	5	3		189973 (.25)	
8082A TNYP	PS	**40157825008**	9.9926	5	3		189973 (.25)	
8082A TNYP	PS	**40157825009**	10.0203	5	3		189973 (.25)	
8082A TNYP	PS	**40157825010**	10.0283	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 284719 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/30/2018 07:22:14:067
Spiked By	AMC	Spiked By Date/Time	03/30/2018 07:22:14:866	Witnessed By	ETB	Witnessed By Date/Time	03/30/2018 07:22:15:682
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	04/02/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/02/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/10/2018 09:32	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	**1666454**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1666455**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40151614005**	10.0269	5	3		189973 (.25)	
8082A TNYP	PS	**40157487011**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40157487012**	9.9785	5	3		189973 (.25)	
8082A TNYP	PS	**40157487013**	10.0107	5	3		189973 (.25)	
8082A TNYP	PS	**40157487014**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157487015**	9.9649	5	3		189973 (.25)	
8082A TNYP	PS	**40157487016**	10.0255	5	3		189973 (.25)	
8082A TNYP	RQS	**40157487017**	10.0169	5	3		189973 (.25)	
8082A TNYP	MS	**1666456**	9.9998	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1666457**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40157487018**	9.9778	5	3		189973 (.25)	
8082A TNYP	PS	**40157487019**	10.0222	5	3		189973 (.25)	
8082A TNYP	PS	**40157487020**	10.0168	5	3		189973 (.25)	
8082A TNYP	PS	**40157488007**	10.0031	5	3		189973 (.25)	

Prep Log Report

40157488

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	**40157488008**	10.0372	5	3		189973 (.25)	
8082A TNYP	PS	**40157488009**	10.034	5	3		189973 (.25)	
8082A TNYP	PS	**40157488010**	9.9936	5	3		189973 (.25)	
8082A TNYP	PS	**40157489008**	10.0179	5	3		189973 (.25)	
8082A TNYP	PS	**40157489009**	9.98	5	3		189973 (.25)	
8082A TNYP	PS	**40157489010**	10.039	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 284965 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/03/2018 07:20:10:732
Spiked By	AMC	Spiked By Date/Time	04/03/2018 07:20:11:628	Witnessed By	ETB	Witnessed By Date/Time	04/03/2018 07:20:12:708
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192753	Hexane	192551	Sodium Sulfate	192947	Florisil	186910
3620B Date/Initials	4/5/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/5/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/12/2018 09:03	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	**1667970**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1667971**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157488011**	9.9839	5	3		189973 (.25)	
8082A TNYP	PS	**40157488012**	10.0102	5	3		189973 (.25)	
8082A TNYP	PS	**40157488013**	9.9826	5	3		189973 (.25)	
8082A TNYP	PS	**40157488014**	10.0136	5	3		189973 (.25)	
8082A TNYP	PS	**40157488015**	9.9782	5	3		189973 (.25)	
8082A TNYP	PS	**40157489011**	10.0339	5	3		189973 (.25)	
8082A TNYP	PS	**40157489012**	10.0015	5	3		189973 (.25)	
8082A TNYP	PS	**40157489013**	9.9975	5	3		189973 (.25)	
8082A TNYP	PS	**40157489014**	10.0146	5	3		189973 (.25)	
8082A TNYP	PS	**40157489015**	10.0351	5	3		189973 (.25)	
8082A TNYP	RQS	**40157489016**	9.9969	5	3		189973 (.25)	
8082A TNYP	MS	**1667972**	10.0205	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1667973**	10.018	5	3		189973 (.25)	
8082A TNYP	PS	**40157489017**	10.0367	5	3		189973 (.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	**40157489018**	9.9994	5	3		189973 (.25)	
8082A TNYP	PS	**40157489019**	9.9857	5	3		189973 (.25)	
8082A TNYP	PS	**40157489020**	10.0244	5	3		189973 (.25)	
8082A TNYP	PS	**40157492012**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157492013**	9.9758	5	3		189973 (.25)	
8082A TNYP	PS	**40157492014**	10.0157	5	3		189973 (.25)	
8082A TNYP	PS	**40157492015**	10.0197	5	3		189973 (.25)	
8082A TNYP	PS	**40157492017**	9.9818	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 285569 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/10/2018 07:13:06:659
Spiked By	AMC	Spiked By Date/Time	04/10/2018 07:13:07	Witnessed By	ETB	Witnessed By Date/Time	04/10/2018 07:13:08:267
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193382	Hexane	192551	Sodium Sulfate	192814	Florisil	186910
3620B Date/Initials	4/11/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/11/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/18/2018 10:21	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	**1671063**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1671064**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157488006**	9.9671	5	3		189973 (.25)	
8082A TNYP	MS	**1671101**	9.9687	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1671100**	9.9798	5	3		189973 (.25)	
8082A TNYP	PS	**40157489006**	10.0293	5	3		189973 (.25)	
8082A TNYP	PS	**40157698006**	9.9828	5	3		189973 (.25)	
8082A TNYP	PS	**40157698007**	9.9881	5	3		189973 (.25)	
8082A TNYP	PS	**40157698012**	9.9744	5	3		189973 (.25)	
8082A TNYP	PS	**40157698013**	10.0395	5	3		189973 (.25)	
8082A TNYP	PS	**40157698014**	10.0012	5	3		189973 (.25)	
8082A TNYP	PS	**40157698015**	10.0047	5	3		189973 (.25)	
8082A TNYP	PS	**40157698016**	10.0234	5	3		189973 (.25)	
8082A TNYP	PS	**40157830005**	10.0055	5	3		189973 (.25)	
8082A TNYP	PS	**40157830006**	10.0158	5	3		189973 (.25)	
8082A TNYP	PS	**40157830007**	10.0318	5	3		189973 (.25)	

Prep Log Report

40157488

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	**40157830014**	10.0212	5	3		189973 (.25)	
8082A TNYP	PS	**40157830015**	10.025	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

```
   Sequence Name: C:\msdchem\1\sequence\033018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\033018\
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   1664793MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4   1664794LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5   1664795MS —
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6   40151549-001 x3
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7   40151601-001 —
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8   40151613-001 —
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9   1664796DUP —
     Datafile           --------
     Method             SCREEN2014
10) Sample         10   40151613-002 —
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11   40151614-002 x2
     Datafile           --------
     Method             SCREEN2014
12) Sample         12   40151614-003 x3
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13   40151614-004 —
     Datafile           --------
     Method             SCREEN2014
14) Sample         14   40151613-014 —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15   40151800-005 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16   40151802-001 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17   40151802-002 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18   40151802-003 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19   40151802-004 —
     Datafile           --------

   Last Modified: Fri Mar 30 07:49:18 2018                Page:  1
```

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BLM 4/3/18

Continued on Page 32

Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

```
      Method              SCREEN2014
20) Sample          20  40151802-005
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40151805-001
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  40157825-001
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  1664809DUP
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  HEXANE
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  40166572-014
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  40166575-010
      Datafile            --------
      Method              SCREEN2014
27) RearSamp        27  40166548-002 X1000
      Datafile            --------
      Method              SCREEN2014
28) Sample          28  1666113MS
      Datafile            --------
      Method              SCREEN2014
29) RearSamp        29  1666114DUP
      Datafile            --------
      Method              SCREEN2014
30) Sample          30  40166571-015
      Datafile            --------
      Method              SCREEN2014
31) RearSamp        31  40166568-002
      Datafile            --------
      Method              SCREEN2014
32) Sample          32  40166568-004
      Datafile            --------
      Method              SCREEN2014
33) RearSamp        33  40166568-005
      Datafile            --------
      Method              SCREEN2014
34) Sample          34  40166568-006
      Datafile            --------
      Method              SCREEN2014
35) RearSamp        35  40166568-007
      Datafile            --------
      Method              SCREEN2014
36) Sample          36  40166568-008
      Datafile            --------
      Method              SCREEN2014
37) RearSamp        37  40166568-009
      Datafile            --------
      Method              SCREEN2014
38) Sample          38  40166568-010
      Datafile            --------
      Method              SCREEN2014
39) RearSamp        39  40166568-011
      Datafile            --------
      Method              SCREEN2014
40) Sample          40  40166568-012
      Datafile            --------
      Method              SCREEN2014
41) RearSamp        41  40166568-013
      Datafile            --------
      Method              SCREEN2014
42) Sample          42  40166568-014
      Datafile            --------
      Method              SCREEN2014
43) RearSamp        43  40166568-016
      Datafile            --------
```

Last Modified: Fri Mar 30 07:49:18 2018 Page: 2

BLM 4/3/18

Continued on Page 33

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40166568-017		
	Datafile		--------		
	Method			SCREEN2014	
45)	RearSamp	45	40166568-018		
	Datafile		--------		
	Method			SCREEN2014	
46)	Sample	46	40166568-019		
	Datafile		--------		
	Method			SCREEN2014	
47)	RearSamp	47	40166568-020		
	Datafile		--------		
	Method			SCREEN2014	
48)	Sample	48	HEXANE		
	Datafile		--------		
	Method			SCREEN2014	
49)	RearSamp	49	40166548-002 X100		
	Datafile		--------		
	Method			SCREEN2014	
50)	Sample	50	1665641MB		
	Datafile		--------		
	Method			SCREEN2014	
51)	RearSamp	51	1665642LCS		
	Datafile		--------		
	Method			SCREEN2014	
52)	Sample	52	1665643MS × 2		
	Datafile		--------		
	Method			SCREEN2014	
53)	RearSamp	53	40157488-001 —		
	Datafile		--------		
	Method			SCREEN2014	
54)	Sample	54	40157488-002 × 2		
	Datafile		--------		
	Method			SCREEN2014	
55)	RearSamp	55	40157488-003 —		
	Datafile		--------		
	Method			SCREEN2014	
56)	Sample	56	40157488-004 × 3		
	Datafile		--------		
	Method			SCREEN2014	
57)	RearSamp	57	40157488-005P —		
	Datafile		--------		
	Method			SCREEN2014	
58)	Sample	58	1665644DUP —		
	Datafile		--------		
	Method			SCREEN2014	
59)	RearSamp	59	40157489-001 —		
	Datafile		--------		
	Method			SCREEN2014	
60)	Sample	60	40157489-002 —		
	Datafile		--------		
	Method			SCREEN2014	
61)	RearSamp	61	40157489-003 —		
	Datafile		--------		
	Method			SCREEN2014	
62)	Sample	62	40157489-004 —		
	Datafile		--------		
	Method			SCREEN2014	
63)	RearSamp	63	40157489-005 ×2		
	Datafile		--------		
	Method			SCREEN2014	
64)	Sample	64	40157825-002 —		
	Datafile		--------		
	Method			SCREEN2014	
65)	RearSamp	65	40157825-003 —		
	Datafile		--------		
	Method			SCREEN2014	
66)	Sample	66	40157825-004 —		
	Datafile		--------		

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Last Modified: Fri Mar 30 09:59:08 2018

Page: 4

BLM 4/3/18

Continued on Page 34

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

```
      Method              SCREEN2014
67) RearSamp       67   40157825-005 —
      Datafile            --------
      Method              SCREEN2014
68) Sample         68   40157825-006 —
      Datafile            --------
      Method              SCREEN2014
69) RearSamp       69   1665645DUP —
      Datafile            --------
      Method              SCREEN2014
70) Sample         70   40157825-007 ×2
      Datafile            --------
      Method              SCREEN2014
71) RearSamp       71   40157825-008 ×3
      Datafile            --------
      Method              SCREEN2014
72) Sample         72   40157825-009 ×5
      Datafile            --------
      Method              SCREEN2014
73) RearSamp       73   40157825-010 —
      Datafile            --------
      Method              SCREEN2014
74) Sample         74   HEXANE
      Datafile            --------
      Method              SCREEN2014
```

Last Modified: Fri Mar 30 09:59:08 2018

Page: 5

BLM 4/3/18

Continued on Page —

Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
   Sequence Name: C:\msdchem\1\sequence\040218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\040218\
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  40166630-024 X100
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  40166659-001 X100
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40166659-009 X100
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  HEXANE
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40166548-010 OG
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40166548-013 OG
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  1666454MB
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  1666455LCS
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151614-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157487-011 x5
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157487-012 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157487-013 x5
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157487-014 x5
     Datafile          --------

   Last Modified: Mon Apr 02 12:02:01 2018                Page:  1
```

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BLM 4/3/18

Continued on Page 36

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

	Method		SCREEN2014	
20)	Sample	20	40157487-015	X10 BLM 4/2/18
	Datafile		--------	
	Method		SCREEN2014	
21)	RearSamp	21	40157487-016	~~×3~~ ×4
	Datafile		--------	
	Method		SCREEN2014	
22)	Sample	22	40157487-017P	×10
	Datafile		--------	
	Method		SCREEN2014	
23)	RearSamp	23	1666456MS	×10
	Datafile		--------	
	Method		SCREEN2014	
24)	Sample	24	1666457DUP	×10
	Datafile		--------	
	Method		SCREEN2014	
25)	RearSamp	25	40157487-018	—
	Datafile		--------	
	Method		SCREEN2014	
26)	Sample	26	40157487-019	×5
	Datafile		--------	
	Method		SCREEN2014	
27)	RearSamp	27	40157487-020	×10
	Datafile		--------	
	Method		SCREEN2014	
28)	Sample	28	40157488-007	×5
	Datafile		--------	
	Method		SCREEN2014	
29)	RearSamp	29	40157488-008	—
	Datafile		--------	
	Method		SCREEN2014	
30)	Sample	30	40157488-009	×3
	Datafile		--------	
	Method		SCREEN2014	
31)	RearSamp	31	40157488-010	×3
	Datafile		--------	
	Method		SCREEN2014	
32)	Sample	32	40157489-008	×3
	Datafile		--------	
	Method		SCREEN2014	
33)	RearSamp	33	40157489-009	—
	Datafile		--------	
	Method		SCREEN2014	
34)	Sample	34	40157489-010	—
	Datafile		--------	
	Method		SCREEN2014	

Last Modified: Mon Apr 02 12:02:01 2018 Page: 2

BLM 4/3/18

Continued on Page —

Read and Understood By

Bryan Meyl — Signed — 4/3/18 Date

Dawn Haag — Signed — 4-3-18 Date

PROJECT 40GCSI Screener 04/05/18

```
Sequence Name: C:\msdchem\1\sequence\040518.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\040518\
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	1669078MB
	Datafile		--------
	Method		SCREEN2014
4)	Sample	4	1669079LCS
	Datafile		--------
	Method		SCREEN2014
5)	RearSamp	5	1669080MS
	Datafile		--------
	Method		SCREEN2014
6)	Sample	6	1669081MSD
	Datafile		--------
	Method		SCREEN2014
7)	RearSamp	7	40166831-001
	Datafile		--------
	Method		SCREEN2014
8)	Sample	8	40166870-001
	Datafile		--------
	Method		SCREEN2014
9)	RearSamp	9	1667970MB
	Datafile		--------
	Method		SCREEN2014
10)	Sample	10	1667971LCS
	Datafile		--------
	Method		SCREEN2014
11)	RearSamp	11	40157488-011 —
	Datafile		--------
	Method		SCREEN2014
12)	Sample	12	40157488-012 ×2
	Datafile		--------
	Method		SCREEN2014
13)	RearSamp	13	40157488-013 ×2
	Datafile		--------
	Method		SCREEN2014
14)	Sample	14	40157488-014 ×2
	Datafile		--------
	Method		SCREEN2014
15)	RearSamp	15	40157488-015 ×3
	Datafile		--------
	Method		SCREEN2014
16)	Sample	16	40157489-011 ×4
	Datafile		--------
	Method		SCREEN2014
17)	RearSamp	17	40157489-012 ×5
	Datafile		--------
	Method		SCREEN2014
18)	Sample	18	40157489-013 ×2
	Datafile		--------
	Method		SCREEN2014
19)	RearSamp	19	40157489-014 ×2
	Datafile		--------

GE BIOTA

Last Modified: Thu Apr 05 10:41:10 2018 Page: 1

BLM 4/6/18

Continued on Page 40

Read and Understood By

Signed 4/6/18 Date Signed 4-6-18 Date

```
      Method                SCREEN2014
20)  Sample          20     40157489-015 x5
      Datafile              --------
      Method                SCREEN2014
21)  RearSamp        21     40157489-016P x 3
      Datafile              --------
      Method                SCREEN2014
22)  Sample          22     1667972MS x3
      Datafile              --------
      Method                SCREEN2014 BLM 4/5/18
23)  RearSamp        23     1667973~~MSD~~ x 3
      Datafile              --------DUP
      Method                SCREEN2014
24)  Sample          24     40157489017 —
      Datafile              --------
      Method                SCREEN2014
25)  RearSamp        25     40157489-018 —
      Datafile              --------
      Method                SCREEN2014
26)  Sample          26     40157489-019 x4
      Datafile              --------
      Method                SCREEN2014
27)  RearSamp        27     40157489-020 —
      Datafile              --------
      Method                SCREEN2014
28)  Sample          28     40157492-012 x4
      Datafile              --------
      Method                SCREEN2014
29)  RearSamp        29     40157492-013 x5
      Datafile              --------
      Method                SCREEN2014
30)  Sample          30     40157492-014 x3
      Datafile              --------
      Method                SCREEN2014
31)  RearSamp        31     40157492-015 x5
      Datafile              --------
      Method                SCREEN2014
32)  Sample          32     40157492-017 x2
      Datafile              --------
      Method                SCREEN2014
33)  RearSamp        33     1668407MB
      Datafile              --------
      Method                SCREEN2014
34)  Sample          34     1668408LCS
      Datafile              --------
      Method                SCREEN2014
35)  RearSamp        35     1668409LCSD
      Datafile              --------
      Method                SCREEN2014
36)  Sample          36     40161349-002
      Datafile              --------
      Method                SCREEN2014
37)  RearSamp        37     40164194-001
      Datafile              --------
      Method                SCREEN2014
38)  Sample          38     40164194-002
      Datafile              --------
      Method                SCREEN2014
39)  RearSamp        39     40164194-003
      Datafile              --------
      Method                SCREEN2014
40)  Sample          40     40164194-004
      Datafile              --------
      Method                SCREEN2014
41)  RearSamp        41     40164194-005
      Datafile              --------
      Method                SCREEN2014
42)  Sample          42     40164194-006
      Datafile              --------
      Method                SCREEN2014
43)  RearSamp        43     40164194-007
      Datafile              --------

   Last Modified: Thu Apr 05 10:41:10 2018                Page:  2
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BLM 4/6/18

Continued on Page —

Read and Understood By

Signed 4/6/18 Date

Signed 4-6-18 Date

PROJECT 40GCSI 041118 Screener

Notebook No. 4418

Continued from Page —

```
Sequence Name: C:\msdchem\1\sequence\041118.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\041118\
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  1671063MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1671064LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157488-006 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1671101MS x5
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  1671100DUP x5
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157489-006 x5
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157698-006 x10
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157698-007 x3
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40167698-012 —
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40167698-013 x2
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40167698-014 x2
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40167698-015 —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40167698-016 x3
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40157830-005 x2
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40157830-006 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40157830-007 x4
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40157830-014 x5
     Datafile           --------

  Last Modified: Wed Apr 11 11:47:32 2018                Page:  1
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GE BIOTA

BLM 4/11/18

BLM 4/12/18

Continued on Page 49

Read and Understood By

Bryan Mayl — Signed — 4/12/18 — Date

Jim O'Connor — Signed — 4-12-18 — Date

```
     Method          SCREEN2014
20)  Sample      20 40157830-015 x4
     Datafile        --------
     Method          SCREEN2014
```

Last Modified: Wed Apr 11 11:47:32 2018 Page: 2

BLM 4/12/18

Continued on Page —

Read and Understood By

Signed 4/12/18 Date

Signed 4-12-18 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

   Last Modified: Tue Mar 06 10:58:59 2018                Page:  1
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BLM 3/7/18

Continued on Page 5

Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

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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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
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BLM 3/7/18

Continued on Page 6

Read and Understood By

Signed 3/7/18 Date Signed 3/5/18 Date

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		

Last Modified: Tue Mar 06 10:58:59 2018

Page: 3

BLM 3/7/18

Continued on Page 7

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
      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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  4
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BLM 3/7/18

Continued on Page —

Read and Understood By

Signed: Bryan Meyer Date: 3/7/18

Signed: [illegible] Date: 3/7/18

```
    Sequence Name: C:\msdchem\1\sequence\033018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\033018\
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          033018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          033018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          033018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x40,,17575,BIOTA
     Datafile          033018006
     Method            GEBIOTA2017
 7) Sample          7  40151616010 x40,,17575,BIOTA
     Datafile          033018007
     Method            GEBIOTA2017
 8) Sample          8  40157828010 x10,,17584,BIOTA
     Datafile          033018008
     Method            GEBIOTA2017
 9) Sample          9  40157828019 x3,,17584,BIOTA
     Datafile          033018009
     Method            GEBIOTA2017
10) Sample         10  1664793,,17591,BIOTA
     Datafile          033018010
     Method            GEBIOTA2017
11) Sample         11  1664794,,17591,BIOTA
     Datafile          033018011
     Method            GEBIOTA2017
12) Sample         12  1664795,,17591,BIOTA
     Datafile          033018012
     Method            GEBIOTA2017
13) Sample         13  40151549001 x3,,17591,BIOTA
     Datafile          033018013
     Method            GEBIOTA2017
14) Sample         14  40151601001,,17591,BIOTA
     Datafile          033018014
     Method            GEBIOTA2017
15) Sample         15  40151613001,,17591,BIOTA
     Datafile          033018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018017
     Method            GEBIOTA2017
18) Sample         18  1664796,,17591,BIOTA
     Datafile          033018018
     Method            GEBIOTA2017
19) Sample         19  40151613002,,17591,BIOTA
     Datafile          033018019

   Last Modified: Fri Mar 30 14:55:13 2018                Page:  1
```

BLM 4/3/18

Continued on Page 37

Read and Understood By

Signed: Bryan Mayl — Date: 4/3/18

Signed: Dawn Haag — Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  40151614002 x2,,17591,BIOTA
      Datafile            033018020
      Method              GEBIOTA2017
21) Sample          21  40151614003 x3,,17591,BIOTA
      Datafile            033018021
      Method              GEBIOTA2017
22) Sample          22  40151614004,,17591,BIOTA
      Datafile            033018022
      Method              GEBIOTA2017
23) Sample          23  40151613014,,17591,BIOTA
      Datafile            033018023
      Method              GEBIOTA2017
24) Sample          24  40151800005,,17591,BIOTA
      Datafile            033018024
      Method              GEBIOTA2017
25) Sample          25  40151802001,,17591,BIOTA
      Datafile            033018025
      Method              GEBIOTA2017
26) Sample          26  40151802002,,17591,BIOTA
      Datafile            033018026
      Method              GEBIOTA2017
27) Sample          27  40151802003,,17591,BIOTA
      Datafile            033018027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018029
      Method              GEBIOTA2017
30) Sample          30  40151802004,,17591,BIOTA
      Datafile            033018030
      Method              GEBIOTA2017
31) Sample          31  40151802005,,17591,BIOTA
      Datafile            033018031
      Method              GEBIOTA2017
32) Sample          32  40151805001,,17591,BIOTA
      Datafile            033018032
      Method              GEBIOTA2017
33) Sample          33  40157825001,,17591,BIOTA
      Datafile            033018033
      Method              GEBIOTA2017
34) Sample          34  1664809,,17591,BIOTA
      Datafile            033018034
      Method              GEBIOTA2017
35) Sample          35  1665641,,17602,BIOTA
      Datafile            033018035
      Method              GEBIOTA2017
36) Sample          36  1665642,,17602,BIOTA
      Datafile            033018036
      Method              GEBIOTA2017
37) Sample          37  1665643 x2,,17602,BIOTA
      Datafile            033018037
      Method              GEBIOTA2017
38) Sample          38  40157488001,,17602,BIOTA
      Datafile            033018038
      Method              GEBIOTA2017
39) Sample          39  40157488002 x2,,17602,BIOTA
      Datafile            033018039
      Method              GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018040
      Method              GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018041
      Method              GEBIOTA2017
42) Sample          42  40157488003,,17602,BIOTA
      Datafile            033018042
      Method              GEBIOTA2017
43) Sample          43  40157488004 x3,,17602,BIOTA
      Datafile            033018043

   Last Modified: Fri Mar 30 14:55:13 2018                Page:  2
```

BLM 4/3/18

Continued on Page 38

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157488005,,17602,BIOTA		
	Datafile		033018044		
	Method			GEBIOTA2017	
45)	Sample	45	1665644,,17602,BIOTA		
	Datafile		033018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157489001,,17602,BIOTA		
	Datafile		033018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157489002,,17602,BIOTA		
	Datafile		033018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157489003,,17602,BIOTA		
	Datafile		033018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157489004,,17602,BIOTA		
	Datafile		033018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157489005 x2,,17602,BIOTA		
	Datafile		033018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157825002,,17602,BIOTA		
	Datafile		033018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157825003,,17602,BIOTA		
	Datafile		033018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157825004,,17602,BIOTA		
	Datafile		033018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825005,,17602,BIOTA RS x2		
	Datafile		033018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157825006,,17602,BIOTA		
	Datafile		033018057		
	Method			GEBIOTA2017	
58)	Sample	58	1665645,,17602,BIOTA		
	Datafile		033018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157825007 x2,,17602,BIOTA		
	Datafile		033018059		
	Method			GEBIOTA2017	
60)	Sample	60	40157825008 x3,,17602,BIOTA		
	Datafile		033018060		
	Method			GEBIOTA2017	
61)	Sample	61	40157825009 x5,,17602,BIOTA		
	Datafile		033018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157825010,,17602,BIOTA RS x2		
	Datafile		033018062		
	Method			GEBIOTA2017	
63)	Sample	63	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018063		
	Method			GEBIOTA2017	
64)	Sample	64	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018064		
	Method			GEBIOTA2017	

GCSV Batch 17591 HBN: 284630 AND 17602 HBN: 284746
Screened: 03/30/18 40GCSJ

Last Modified: Fri Mar 30 14:55:13 2018

Page: 4

BLM 4/3/18

Continued on Page —

Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
     Sequence Name: C:\msdchem\1\sequence\040218.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\040218\
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          040218001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040218002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040218003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218005
     Method            GEBIOTA2017
 6) Sample          6  40157825005 x2,,17602,BIOTA RS
     Datafile          040218006
     Method            GEBIOTA2017
 7) Sample          7  40157825010 x2,,17602,BIOTA RS
     Datafile          040218007
     Method            GEBIOTA2017
 8) Sample          8  1666454,,17607,BIOTA
     Datafile          040218008
     Method            GEBIOTA2017
 9) Sample          9  1666455,,17607,BIOTA
     Datafile          040218009
     Method            GEBIOTA2017
10) Sample         10  40151614005,,17607,BIOTA
     Datafile          040218010
     Method            GEBIOTA2017
11) Sample         11  40157487011 x5,,17607,BIOTA
     Datafile          040218011
     Method            GEBIOTA2017
12) Sample         12  40157487012,,17607,BIOTA
     Datafile          040218012
     Method            GEBIOTA2017
13) Sample         13  40157487013 x5,,17607,BIOTA
     Datafile          040218013
     Method            GEBIOTA2017
14) Sample         14  40157487014 x5,,17607,BIOTA
     Datafile          040218014
     Method            GEBIOTA2017
15) Sample         15  40157487015 x10,,17607,BIOTA
     Datafile          040218015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218017
     Method            GEBIOTA2017
18) Sample         18  40157487016 x4,,17607,BIOTA
     Datafile          040218018
     Method            GEBIOTA2017
19) Sample         19  40157487017 x10,,17607,BIOTA
     Datafile          040218019

   Last Modified: Mon Apr 02 14:22:48 2018                Page:  1
```

BLM 4/3/18

Continued on Page 40

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  1666456 x10,,17607,BIOTA
      Datafile            040218020
      Method              GEBIOTA2017
21) Sample          21  1666457 x10,,17607,BIOTA
      Datafile            040218021
      Method              GEBIOTA2017
22) Sample          22  40157487018,,17607,BIOTA
      Datafile            040218022
      Method              GEBIOTA2017
23) Sample          23  40157487019 x5,,17607,BIOTA
      Datafile            040218023
      Method              GEBIOTA2017
24) Sample          24  40157487020 x10,,17607,BIOTA
      Datafile            040218024
      Method              GEBIOTA2017
25) Sample          25  40157488007 x5,,17607,BIOTA
      Datafile            040218025
      Method              GEBIOTA2017
26) Sample          26  40157488008,,17607,BIOTA
      Datafile            040218026
      Method              GEBIOTA2017
27) Sample          27  40157488009 x3,,17607,BIOTA
      Datafile            040218027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218029
      Method              GEBIOTA2017
30) Sample          30  40157488010 x3,,17607,BIOTA
      Datafile            040218030
      Method              GEBIOTA2017
31) Sample          31  40157489008 x3,,17607,BIOTA
      Datafile            040218031
      Method              GEBIOTA2017
32) Sample          32  40157489009,,17607,BIOTA
      Datafile            040218032
      Method              GEBIOTA2017
33) Sample          33  40157489010,,17607,BIOTA
      Datafile            040218033
      Method              GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218034
      Method              GEBIOTA2017
35) Sample          35  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218035
      Method              GEBIOTA2017
```

GCJV Batch 17607 HBN: 284860 Screened:
40GCSI 04/02/18

Last Modified: Mon Apr 02 14:22:48 2018

Page: 2

BLM 4/3/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

```
    Sequence Name: C:\msdchem\1\sequence\040518.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\040518\
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          040518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040518003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518005
     Method            GEBIOTA2017
 6) Sample          6  40151616001 x2,,17567,BIOTA
     Datafile          040518006
     Method            GEBIOTA2017
 7) Sample          7  40151804002 x2,,17567,BIOTA
     Datafile          040518007
     Method            GEBIOTA2017
 8) Sample          8  1667970,,17626,BIOTA
     Datafile          040518008
     Method            GEBIOTA2017
 9) Sample          9  1667971,,17626,BIOTA
     Datafile          040518009
     Method            GEBIOTA2017
10) Sample         10  40157488011,,17626,BIOTA
     Datafile          040518010
     Method            GEBIOTA2017
11) Sample         11  40157488012 x2,,17626,BIOTA
     Datafile          040518011
     Method            GEBIOTA2017
12) Sample         12  40157488013 x2,,17626,BIOTA
     Datafile          040518012
     Method            GEBIOTA2017
13) Sample         13  40157488014 x2,,17626,BIOTA
     Datafile          040518013
     Method            GEBIOTA2017
14) Sample         14  40157488015 x3,,17626,BIOTA
     Datafile          040518014
     Method            GEBIOTA2017
15) Sample         15  40157489011 x4,,17626,BIOTA
     Datafile          040518015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518017
     Method            GEBIOTA2017
18) Sample         18  40157489012 x5,,17626,BIOTA
     Datafile          040518018
     Method            GEBIOTA2017
19) Sample         19  40157489013 x2,,17626,BIOTA
     Datafile          040518019

   Last Modified: Thu Apr 05 13:16:40 2018                Page:  1
```

BLM 4/6/18

Continued on Page 44

Read and Understood By

Bryan Megel — Signed — 4/6/18 Date

Jim O'Connor — Signed — 4-6-18 Date

```
      Method                GEBIOTA2017
20) Sample          20  40157489014 x2,,17626,BIOTA
      Datafile              040518020
      Method                GEBIOTA2017
21) Sample          21  40157489015 x5,,17626,BIOTA
      Datafile              040518021
      Method                GEBIOTA2017
22) Sample          22  40157489016 x3,,17626,BIOTA
      Datafile              040518022
      Method                GEBIOTA2017
23) Sample          23  1667972 x3,,17626,BIOTA
      Datafile              040518023
      Method                GEBIOTA2017
24) Sample          24  1667973 x3,,17626,BIOTA
      Datafile              040518024
      Method                GEBIOTA2017
25) Sample          25  40157489017,,17626,BIOTA
      Datafile              040518025
      Method                GEBIOTA2017
26) Sample          26  40157489018,,17626,BIOTA
      Datafile              040518026
      Method                GEBIOTA2017
27) Sample          27  40157489019 x4,,17626,BIOTA
      Datafile              040518027
      Method                GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518028
      Method                GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518029
      Method                GEBIOTA2017
30) Sample          30  40157489020,,17626,BIOTA
      Datafile              040518030
      Method                GEBIOTA2017
31) Sample          31  40157492012 x4,,17626,BIOTA
      Datafile              040518031
      Method                GEBIOTA2017
32) Sample          32  40157492013 x5,,17626,BIOTA
      Datafile              040518032
      Method                GEBIOTA2017
33) Sample          33  40157492014 x3,,17626,BIOTA
      Datafile              040518033
      Method                GEBIOTA2017
34) Sample          34  40157492015 x5,,17626,BIOTA
      Datafile              040518034
      Method                GEBIOTA2017
35) Sample          35  40157492017 x2,,17626,BIOTA
      Datafile              040518035
      Method                GEBIOTA2017
36) Sample          36  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518036
      Method                GEBIOTA2017
37) Sample          37  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518037
      Method                GEBIOTA2017
```

GCSV Batch 17626 HBN: 285248 Screened:
40GCSI 04/05/18

Last Modified: Thu Apr 05 13:16:40 2018

Page: 2

BLM 4/6/18

Continued on Page —

Read and Understood By

Bryan Meyer — Signed — 4/6/18 — Date

Jim O'Connor — Signed — 4-6-18 — Date

```
    Sequence Name: C:\msdchem\1\sequence\041118.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041118\
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          041118001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041118002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041118003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118005
     Method            GEBIOTA2017
 6) Sample          6  40157703012 x10,,17642,BIOTA
     Datafile          041118006
     Method            GEBIOTA2017
 7) Sample          7  1671063,,17653,BIOTA
     Datafile          041118007
     Method            GEBIOTA2017
 8) Sample          8  1671064,,17653,BIOTA
     Datafile          041118008
     Method            GEBIOTA2017
 9) Sample          9  40157488006 x5,,17653,BIOTA
     Datafile          041118009
     Method            GEBIOTA2017
10) Sample         10  1671101 x5,,17653,BIOTA
     Datafile          041118010
     Method            GEBIOTA2017
11) Sample         11  1671100 x5,,17653,BIOTA
     Datafile          041118011
     Method            GEBIOTA2017
12) Sample         12  40157489006 x5,,17653,BIOTA
     Datafile          041118012
     Method            GEBIOTA2017
13) Sample         13  40157698006 x10,,17653,BIOTA
     Datafile          041118013
     Method            GEBIOTA2017
14) Sample         14  40157698007 x3,,17653,BIOTA
     Datafile          041118014
     Method            GEBIOTA2017
15) Sample         15  40157698012,,17653,BIOTA
     Datafile          041118015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118017
     Method            GEBIOTA2017
18) Sample         18  40157698013 x2,,17653,BIOTA
     Datafile          041118018
     Method            GEBIOTA2017
19) Sample         19  40157698014 x2,,17653,BIOTA
     Datafile          041118019

   Last Modified: Wed Apr 11 13:39:46 2018                  Page:  1
```

BLM 4/12/18

Continued on Page 51

Read and Understood By

Signed 4/12/18 Date

Signed 4-12-18 Date

```
      Method              GEBIOTA2017
20) Sample        20  40157698015,,17653,BIOTA
      Datafile            041118020
      Method              GEBIOTA2017
21) Sample        21  40157698016 x3,,17653,BIOTA
      Datafile            041118021
      Method              GEBIOTA2017
22) Sample        22  40157830005 x2,,17653,BIOTA
      Datafile            041118022
      Method              GEBIOTA2017
23) Sample        23  40157830006,,17653,BIOTA
      Datafile            041118023
      Method              GEBIOTA2017
24) Sample        24  40157830007 x4,,17653,BIOTA
      Datafile            041118024
      Method              GEBIOTA2017
25) Sample        25  40157830014 x5,,17653,BIOTA
      Datafile            041118025
      Method              GEBIOTA2017
26) Sample        26  40157830015 x4,,17653,BIOTA
      Datafile            041118026
      Method              GEBIOTA2017
27) Sample        27  1232-CCV,185539:1,17498,AR123 OL
      Datafile            041118027
      Method              GEBIOTA2017
28) Sample        28  1232-CCV,185539:1,17498,AR123 OL
      Datafile            041118028
      Method              GEBIOTA2017
```

GCSV Batch 17653 HBN: 285728
Screened: 40GCSI 4/11/18

Last Modified: Wed Apr 11 13:39:46 2018 Page: 2

BLM 4/12/18

Continued on Page —

Read and Understood By

Signed 4/12/18 Date Signed 4-12-18 Date

Standard Log Report

Standards Log Information for Standard #193382

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/06/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/06/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #193382

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

Composed of Information for Standard #193382

Composed of Standard Seq	Volume	Units
192551	2000	mL
190943	2000	mL

Standard Log Report

Standards Log Information for Standard #192947

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/03/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	09/30/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/3/18

Compound Name and Concentration for Standard #192947

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 #192814

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/02/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/02/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/2/18

Compound Name and Concentration for Standard #192814

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 #192753

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/30/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192753

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

Composed of Information for Standard #192753

Composed of Standard Seq	Volume	Units
192551	2000	mL
189479	2000	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 #192488

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/28/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/28/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192488

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

Composed of Information for Standard #192488

Composed of Standard Seq	Volume	Units
189481	2000	mL
188917	2000	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 #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

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 #190943

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 #190943

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 #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

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 #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189481

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**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 #189481

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #189479

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**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 #189479

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	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

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

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

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

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

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #179366

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 #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

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		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

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

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

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

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

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

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

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

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

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

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #172034

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

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

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

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

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

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

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

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

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

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

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Date Received: 4/22/14 cre

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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

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

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

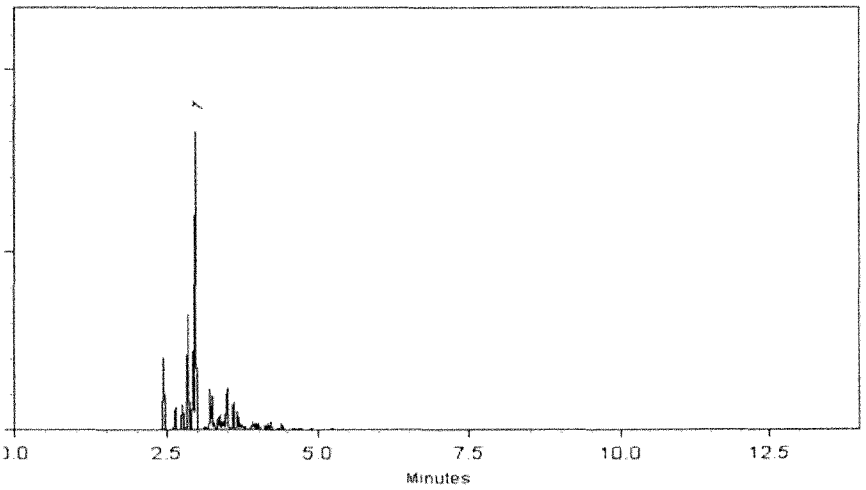
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

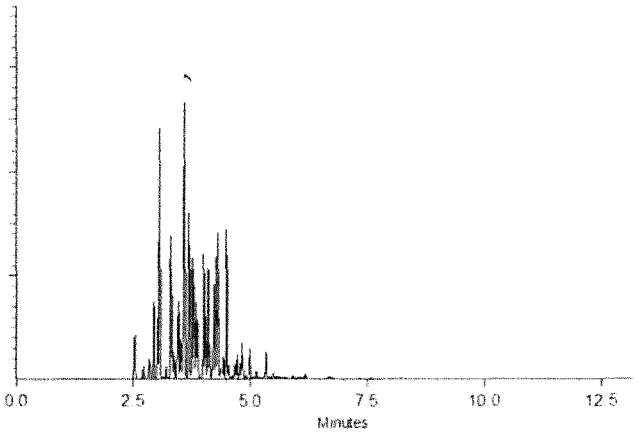
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

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

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

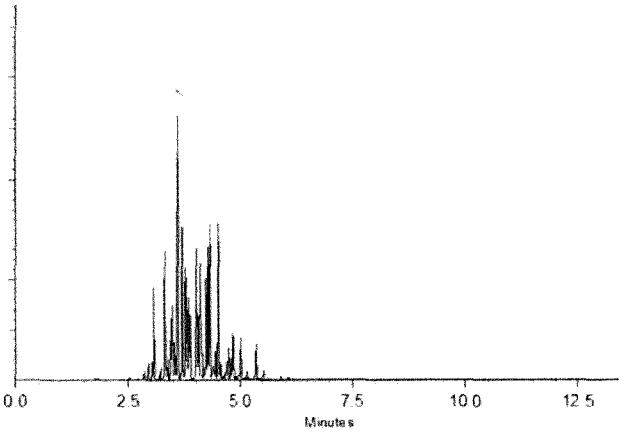
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

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

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By --

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

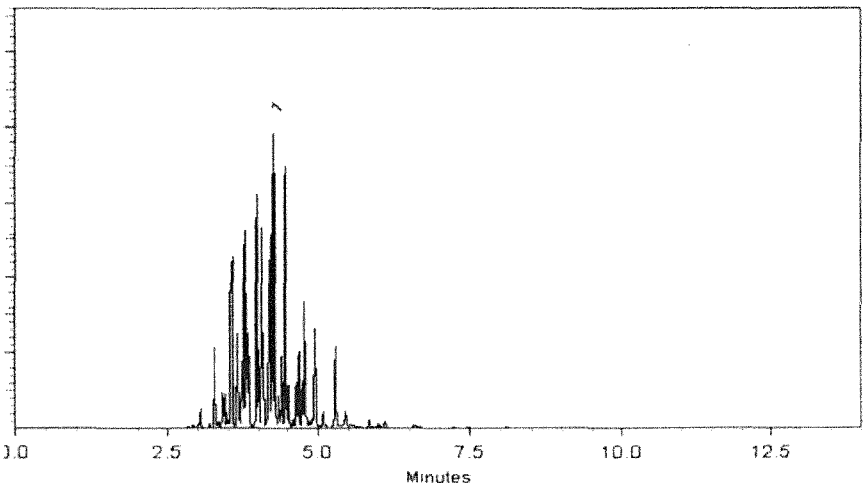
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1254			1,005.6	µg/mL	+/-	5.9014	µg/mL	Gravimetric
	CAS #	11097-69-1	(Lot 124-191-B)			+/-	31.8715	µg/mL	Unstressed
	Purity	----%				+/-	41.6347	µg/mL	Stressed

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

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

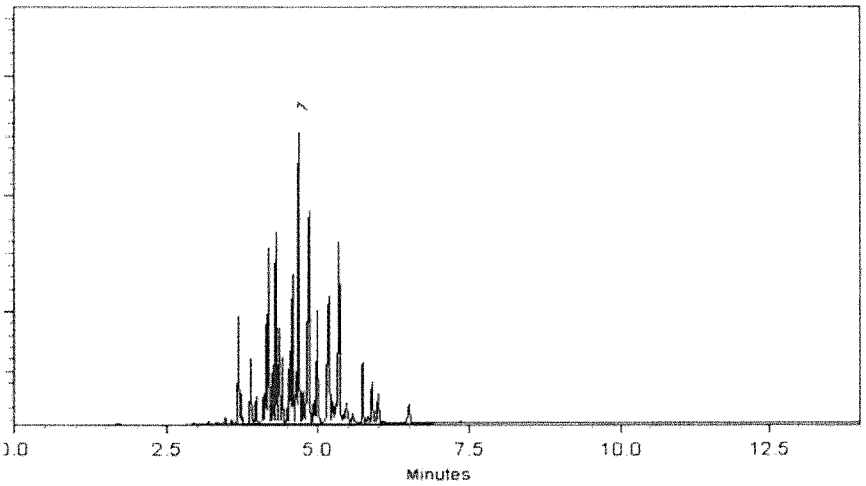
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

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

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

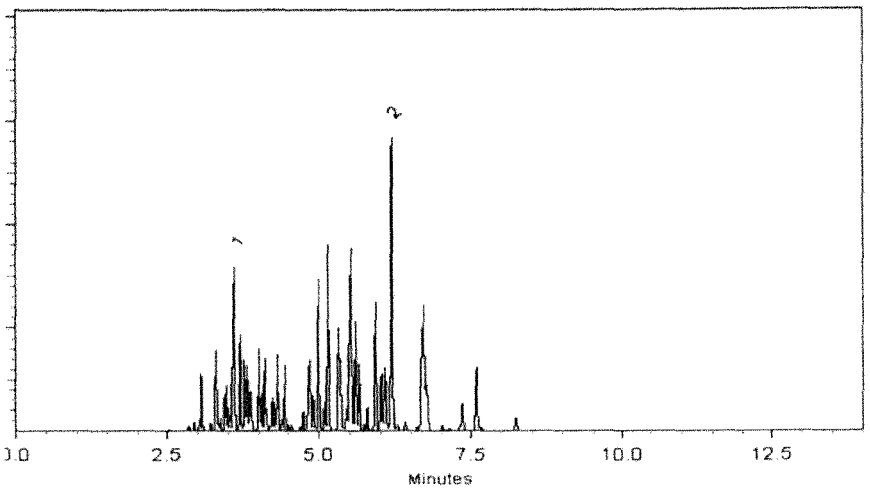
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

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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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

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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)

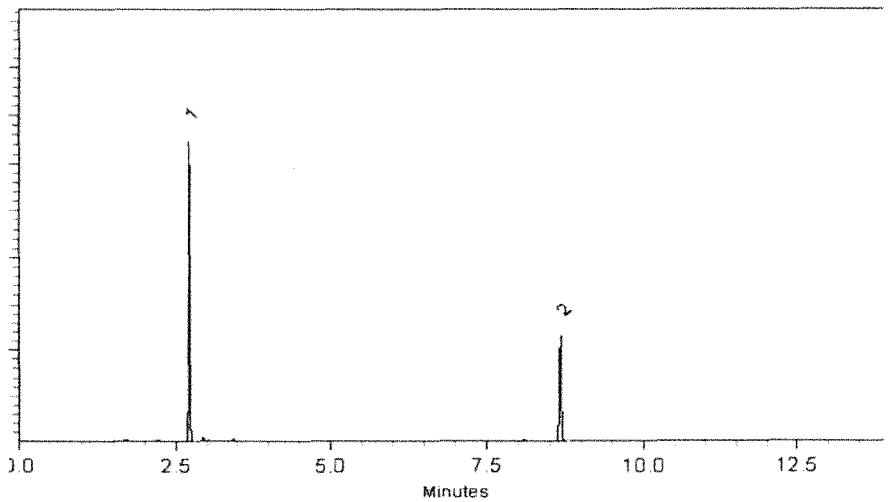
Carrier Gas:
helium-constant pressure 20 psi.

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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Muskegon, MI 49442
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Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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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 --
Open --/--/-- By --

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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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. : 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)

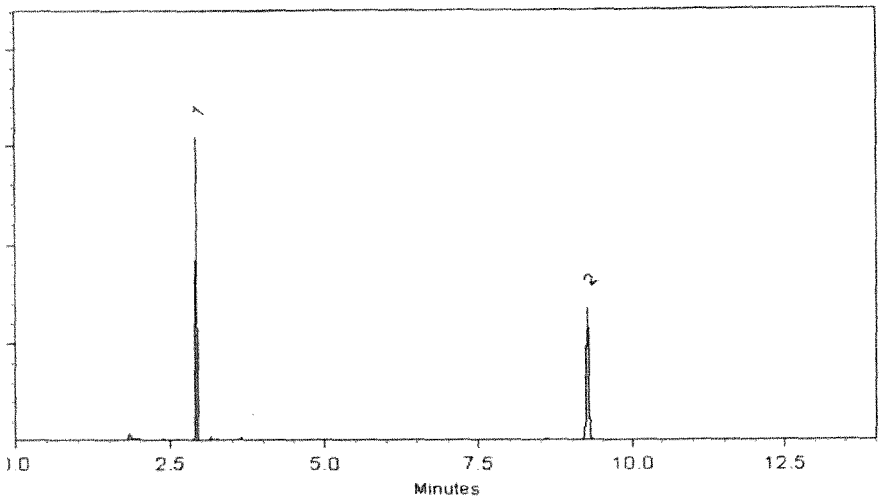
Carrier Gas:
helium-constant pressure 20 psi.

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

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

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

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	5
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 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

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

J.T.Baker | avantor

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

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW2-170614-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.53		%	1	03/30/2018 06:40

SAMPLE NO.

SW2-170614-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/30/2018 06:40

SAMPLE NO.

SW2-170614-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.80		%	1	03/30/2018 06:40

SAMPLE NO.

SW2-170614-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.92		%	1	03/30/2018 06:40

SAMPLE NO.

SW2-170614-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.65		%	1	03/30/2018 06:40

SAMPLE NO.

SW2-170614-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	04/11/2018 07:17

SAMPLE NO.

SW2-170614-01-LMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	04/02/2018 06:18

SAMPLE NO.

SW2-170614-01-LMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.25		%	1	04/02/2018 06:18

SAMPLE NO.

SW2-170614-01-LMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.41		%	1	04/02/2018 06:18

SAMPLE NO.

SW2-170614-01-LMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.63		%	1	04/02/2018 06:18

SAMPLE NO.

SW2-170614-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.58		%	1	04/05/2018 06:36

SAMPLE NO.

SW2-170614-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.75		%	1	04/05/2018 06:36

SAMPLE NO.

SW2-170614-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	04/05/2018 06:36

SAMPLE NO.

SW2-170614-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.68		%	1	04/05/2018 06:36

SAMPLE NO.

SW2-170614-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157488015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.75		%	1	04/05/2018 06:36

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 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	1666462	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 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	1667515	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 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	1669168	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 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	1671710	C
Lipid									<0.030	U

SAMPLE NO.

1666465DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.65	0.75	14

SAMPLE NO.

1666466DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.97	0.93	4

SAMPLE NO.

1667518DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.28	0.23	22

SAMPLE NO.

1669171DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.90	0.88	1

SAMPLE NO.

1671713DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157488 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.0	1.2	18

Prep Log Report

Batch Information: OEXT 284721 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:46				

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	**1666462**	Y	-0.03500	03/30/2018 06:40:52		10	5	1	0.9319	0.9312	M	1665641
LIPID	BLANK	**1666463**	Y	0.03500	03/30/2018 06:40:52		10	5	1	0.924	0.9247	M	1665642
LIPID	PS	**40157488001**	Y	0.5333	03/30/2018 06:40:52		10.0326	5	1	0.9272	0.9379	M	
LIPID	PS	**40157488002**	Y	1.231	03/30/2018 06:40:52		10.0297	5	1	0.9265	0.9512	M	
LIPID	PS	**40157488003**	Y	0.8033	03/30/2018 06:40:52		10.0216	5	1	0.9257	0.9418	M	
LIPID	PS	**40157488004**	Y	0.9224	03/30/2018 06:40:52		10.0282	5	1	0.9313	0.9498	M	
LIPID	RQS	**40157488005**	Y	0.6468	03/30/2018 06:40:52		9.9729	5	1	0.9285	0.9414	M	
LIPID	DUP	**1666465**	Y	0.7456	03/30/2018 06:40:52		9.9916	5	1	0.9287	0.9436	M	1665644
LIPID	PS	**40157489001**	Y	1.175	03/30/2018 06:40:52		9.9618	5	1	0.926	0.9494	M	
LIPID	PS	**40157489002**	Y	1.032	03/30/2018 06:40:52		9.9852	5	1	0.9317	0.9523	M	
LIPID	PS	**40157489003**	Y	0.6416	03/30/2018 06:40:52		9.9744	5	1	0.9297	0.9425	M	
LIPID	PS	**40157489004**	Y	0.9163	03/30/2018 06:40:52		9.9863	5	1	0.9271	0.9454	M	
LIPID	PS	**40157489005**	Y	1.760	03/30/2018 06:40:52		9.9736	5	1	0.9255	0.9606	M	
LIPID	PS	**40157825002**	Y	0.7160	03/30/2018 06:40:52		9.9859	5	1	0.9247	0.939	M	
LIPID	PS	**40157825003**	Y	0.5219	03/30/2018 06:40:52		9.9633	5	1	0.9223	0.9327	M	
LIPID	PS	**40157825004**	Y	0.7473	03/30/2018 06:40:52		10.0359	5	1	0.9282	0.9432	M	
LIPID	PS	**40157825005**	Y	1.429	03/30/2018 06:40:52		9.9722	5	1	0.9302	0.9587	M	
LIPID	RQS	**40157825006**	Y	0.9674	03/30/2018 06:40:52		10.0264	5	1	0.9268	0.9462	M	
LIPID	DUP	**1666466**	Y	0.9307	03/30/2018 06:40:52		9.9927	5	1	0.9251	0.9437	M	1665645

Prep Log Report

40157488

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	**40157825007**	Y	0.9434	03/30/2018 06:40:52		10.0166	5	1	0.9298	0.9487	M	
LIPID	PS	**40157825008**	Y	1.036	03/30/2018 06:40:52		9.9926	5	1	0.9298	0.9505	M	
LIPID	PS	**40157825009**	Y	0.8832	03/30/2018 06:40:52		10.0203	5	1	0.9233	0.941	M	
LIPID	PS	**40157825010**	Y	1.052	03/30/2018 06:40:52		10.0283	5	1	0.9276	0.9487	M	
LIPID	MS	**1682550**	Y	0.5450	03/30/2018 06:40:52		9.9994	5	1	.9269	0.9378	M	

Prep Log Report

Batch Information: OEXT 284832 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:42				

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	**1667515**	Y	-0.005000	04/02/2018 06:18:18		10	5	1	0.9252	0.9251	M	1666454
LIPID	BLANK	**1667516**	Y	0.005000	04/02/2018 06:18:18		10	5	1	0.9292	0.9293	M	1666455
LIPID	PS	**40151614005**	Y	0.2493	04/02/2018 06:18:18		10.0269	5	1	0.9255	0.9305	M	
LIPID	PS	**40157487011**	Y	0.2349	04/02/2018 06:18:18		10.0051	5	1	0.9287	0.9334	M	
LIPID	PS	**40157487012**	Y	0.2706	04/02/2018 06:18:18		9.9785	5	1	0.9284	0.9338	M	
LIPID	PS	**40157487013**	Y	0.1698	04/02/2018 06:18:18		10.0107	5	1	0.9254	0.9288	M	
LIPID	PS	**40157487014**	Y	0.4661	04/02/2018 06:18:18		9.9774	5	1	0.9248	0.9341	M	
LIPID	PS	**40157487015**	Y	1.179	04/02/2018 06:18:18		9.9649	5	1	0.9271	0.9506	M	
LIPID	PS	**40157487016**	Y	0.2693	04/02/2018 06:18:18		10.0255	5	1	0.9268	0.9322	M	
LIPID	RQS	**40157487017**	Y	0.2795	04/02/2018 06:18:18		10.0169	5	1	0.9249	0.9305	M	
LIPID	DUP	**1667518**	Y	0.2251	04/02/2018 06:18:18		9.9976	5	1	0.9207	0.9252	M	1666457
LIPID	PS	**40157487018**	Y	0.2155	04/02/2018 06:18:18		9.9778	5	1	0.9252	0.9295	M	
LIPID	PS	**40157487019**	Y	0.2594	04/02/2018 06:18:18		10.0222	5	1	0.9262	0.9314	M	
LIPID	PS	**40157487020**	Y	0.6040	04/02/2018 06:18:18		10.0168	5	1	0.9291	0.9412	M	
LIPID	PS	**40157488007**	Y	0.4998	04/02/2018 06:18:18		10.0031	5	1	0.9248	0.9348	M	
LIPID	PS	**40157488008**	Y	0.2491	04/02/2018 06:18:18		10.0372	5	1	0.9244	0.9294	M	
LIPID	PS	**40157488009**	Y	0.4136	04/02/2018 06:18:18		10.034	5	1	0.9261	0.9344	M	
LIPID	PS	**40157488010**	Y	0.6304	04/02/2018 06:18:18		9.9936	5	1	0.9254	0.938	M	
LIPID	PS	**40157489008**	Y	0.3294	04/02/2018 06:18:18		10.0179	5	1	0.9251	0.9317	M	

Prep Log Report

40157488

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	**40157489009**	Y	0.3106	04/02/2018 06:18:18		9.98	5	1	0.9271	0.9333	M	
LIPID	PS	**40157489010**	Y	0.2889	04/02/2018 06:18:18		10.039	5	1	0.9296	0.9354	M	
LIPID	MS	**1682573**	Y	0.2550	04/02/2018 06:18:18		9.9998	5	1	.9262	0.9313	M	

Prep Log Report

Batch Information: OEXT 285200 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:30				

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	**1669168**	Y	-0.005000	04/05/2018 06:36:53		10	5	1	0.9309	0.9308	M	1667970
LIPID	BLANK	**1669169**	Y	0.03000	04/05/2018 06:36:53		10	5	1	0.9264	0.927	M	1667971
LIPID	PS	**40157488011**	Y	0.5759	04/05/2018 06:36:53		9.9839	5	1	0.9296	0.9411	M	
LIPID	PS	**40157488012**	Y	0.7542	04/05/2018 06:36:53		10.0102	5	1	0.929	0.9441	M	
LIPID	PS	**40157488013**	Y	1.112	04/05/2018 06:36:53		9.9826	5	1	0.9316	0.9538	M	
LIPID	PS	**40157488014**	Y	0.6841	04/05/2018 06:36:53		10.0136	5	1	0.9361	0.9498	M	
LIPID	PS	**40157488015**	Y	0.7516	04/05/2018 06:36:53		9.9782	5	1	0.9321	0.9471	M	
LIPID	PS	**40157489011**	Y	1.321	04/05/2018 06:36:53		10.0339	5	1	0.9327	0.9592	M	
LIPID	PS	**40157489012**	Y	1.050	04/05/2018 06:36:53		10.0015	5	1	0.9295	0.9505	M	
LIPID	PS	**40157489013**	Y	0.6702	04/05/2018 06:36:53		9.9975	5	1	0.9279	0.9413	M	
LIPID	PS	**40157489014**	Y	0.3245	04/05/2018 06:36:53		10.0146	5	1	0.933	0.9395	M	
LIPID	PS	**40157489015**	Y	1.041	04/05/2018 06:36:53		10.0351	5	1	0.931	0.9519	M	
LIPID	RQS	**40157489016**	Y	0.8953	04/05/2018 06:36:53		9.9969	5	1	0.931	0.9489	M	
LIPID	DUP	**1669171**	Y	0.8834	04/05/2018 06:36:53		10.018	5	1	0.9291	0.9468	M	1667973
LIPID	PS	**40157489017**	Y	0.3238	04/05/2018 06:36:53		10.0367	5	1	0.9324	0.9389	M	
LIPID	PS	**40157489018**	Y	0.5700	04/05/2018 06:36:53		9.9994	5	1	0.9328	0.9442	M	
LIPID	PS	**40157489019**	Y	0.4456	04/05/2018 06:36:53		9.9857	5	1	0.9309	0.9398	M	
LIPID	PS	**40157489020**	Y	0.3641	04/05/2018 06:36:53		10.0244	5	1	0.9302	0.9375	M	
LIPID	PS	**40157492012**	Y	1.158	04/05/2018 06:36:53		9.9774	5	1	0.9257	0.9488	M	

Prep Log Report

40157488

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	**40157492013**	Y	1.253	04/05/2018 06:36:53		9.9758	5	1	0.9283	0.9533	M	
LIPID	PS	**40157492014**	Y	0.8936	04/05/2018 06:36:53		10.0157	5	1	0.9324	0.9503	M	
LIPID	PS	**40157492015**	Y	1.243	04/05/2018 06:36:53		10.0197	5	1	0.931	0.9559	M	
LIPID	PS	**40157492017**	Y	0.7063	04/05/2018 06:36:53		9.9818	5	1	0.9328	0.9469	M	
LIPID	MS	**1682810**	Y	0.9580	04/05/2018 06:36:53		10.0205	5	1	.9323	0.9515	M	1667973

Prep Log Report

Batch Information: OEXT 285708 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	05/02/2018 14:06				

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	**1671710**	Y	0.01500	04/11/2018 07:17:36		10	5	1	0.9232	0.9235	M	1671063
LIPID	BLANK	**1671711**	Y	0.005000	04/11/2018 07:17:44		10	5	1	0.9224	0.9225	M	1671064
LIPID	PS	**40157488006**	Y	1.038	04/11/2018 07:17:53		9.9671	5	1	0.9251	0.9458	M	
LIPID	DUP	**1671713**	Y	1.242	04/11/2018 07:18:13		9.9798	5	1	0.9276	0.9524	M	1671100
LIPID	PS	**40157489006**	Y	0.3241	04/11/2018 07:18:29		10.0293	5	1	0.9302	0.9367	M	
LIPID	PS	**40157698006**	Y	0.5159	04/11/2018 07:18:40		9.9828	5	1	0.9246	0.9349	M	
LIPID	PS	**40157698007**	Y	0.3004	04/11/2018 07:18:50		9.9881	5	1	0.9249	0.9309	M	
LIPID	PS	**40157698012**	Y	0.2456	04/11/2018 07:19:00		9.9744	5	1	0.9228	0.9277	M	
LIPID	PS	**40157698013**	Y	0.1793	04/11/2018 07:19:12		10.0395	5	1	0.9273	0.9309	M	
LIPID	PS	**40157698014**	Y	0.4849	04/11/2018 07:19:21		10.0012	5	1	0.9237	0.9334	M	
LIPID	PS	**40157698015**	Y	0.3698	04/11/2018 07:19:34		10.0047	5	1	0.9274	0.9348	M	
LIPID	PS	**40157698016**	Y	0.4041	04/11/2018 07:20:07		10.0234	5	1	0.9228	0.9309	M	
LIPID	PS	**40157830005**	Y	1.134	04/11/2018 07:20:17		10.0055	5	1	0.9285	0.9512	M	
LIPID	PS	**40157830006**	Y	0.5941	04/11/2018 07:20:26		10.0158	5	1	0.9259	0.9378	M	
LIPID	PS	**40157830007**	Y	0.4585	04/11/2018 07:20:36		10.0318	5	1	0.9246	0.9338	M	
LIPID	PS	**40157830014**	Y	0.4890	04/11/2018 07:20:45		10.0212	5	1	0.9228	0.9326	M	
LIPID	PS	**40157830015**	Y	0.5087	04/11/2018 07:20:57		10.025	5	1	0.9284	0.9386	M	
LIPID	MS	**1682838**	Y	1.133	04/11/2018 07:20:57		9.9687	5	1	.9267	0.9493	M	

Client Name: GE
Project #: 40157488
Sample Type: Fish
Date/Time Removed to Thaw: 03-27-18
Date/Time Prepped: 03-28-18
Prepped by: CWN + JL TRM
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	A	F	Y	185.4	Y	M	41.5	Left / Both	Y	9AG	1	Y	40.7	C	
2	A	F	Y	84.1	Y	M	33.8	Left / Both	Y	9AG	1	Y	33.2	C	
3	A	F	Y	99.5	Y	M	40.6	Left / Both	Y	9AG	1	Y	39.6	C	
4	A	F	Y	319.8	Y	M	75.3	Left / Both	Y	9AG	1	Y	75.3	C	
5	A	F	Y	324.4	Y	M	72.3	Left / Both	Y	9AG	1	Y	69.3	C	
6	A	F	Y	392.5	Y	M	93.8	Left / Both	Y	9AG	1	Y	91.2	C	
7	A	F	Y	483.8	Y	M	114.0	Left / Both	Y	9AG	1	Y	112.3	C	
8	A	F	Y	662.2	Y	F	138.5	Left / Both	Y	9AG	1	Y	136.1	C	
9	A	F	Y	627.6	Y	M	135.0	Left / Both	Y	9AG	1	Y	133.7	C	
10	A	F	Y	518.3	Y	F	114.9	Left / Both	Y	9AG	1	Y	111.8	C	
11	B	F	Y	533.6	Y	M	55.1	Left / Both	Y	9AG	1	Y	52.8	C	
12	B	F	Y	695.9	Y	F	73.3	Left / Both	Y	9AG	1	Y	70.5	C	
13	B	F	Y	534.5	Y	F	56.7	Left / Both	Y	9AG	1	Y	54.8	C	
14	B	F	Y	553.2	Y	M	67.4	Left / Both	Y	9AG	1	Y	66.3	C	
15	B	F	Y	782.5	Y	M	83.6	Left / Both	Y	9AG	1	Y	80.9	C	
								Left / Both							
								Left / Both							
						CWN	03-28-18	Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-345-DSAB
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